



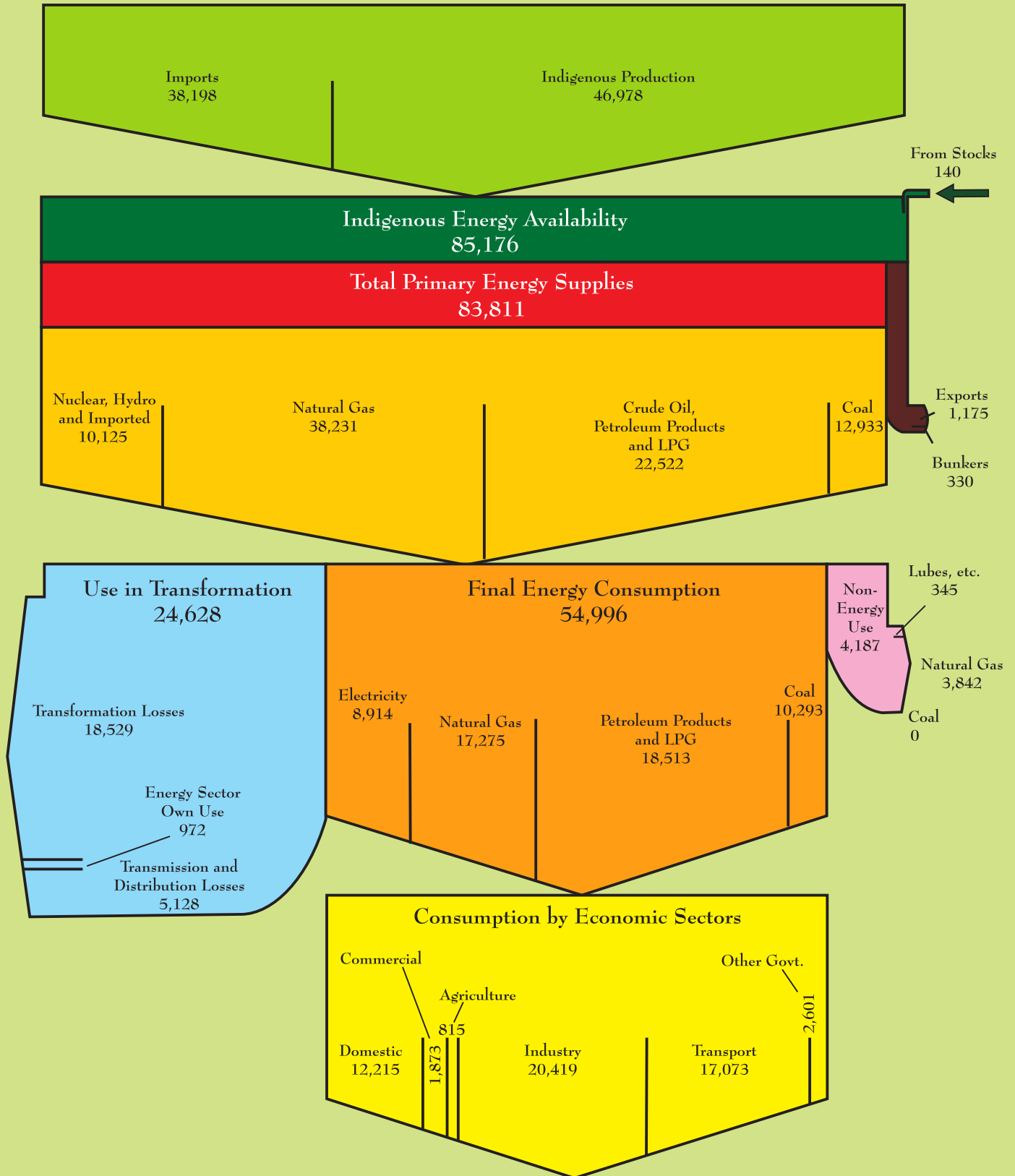
Pakistan Energy Yearbook 2019



Ministry of Energy (Petroleum Division)
Hydrocarbon Development Institute of Pakistan

ENERGY FLOW CHART 2018-19

Thousand Tonnes of Oil Equivalent





Pakistan Energy Yearbook 2019

Ministry of Energy (Petroleum Division)
Hydrocarbon Development Institute of Pakistan

Islamabad, 20 July 2020

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PAKISTAN ENERGY YEARBOOK 2019

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FOREWORD

The energy sector is facing the challenges of supply and demand gap which have significant impact on all sectors of the economy. The share of oil and gas in the current energy supply mix is more than 70%. The Government is making efforts to reduce supply and demand gap through decrease in share of thermal energy, increase in generation of low cost energy and by expansion of transmission and distribution capacity of the system.

Achieving energy self-reliance is an essential element in nurturing Pakistan's per capita income levels and it is one of the priorities of the present Government. The Government is also making efforts to attract foreign investment in indigenous oil, gas, coal resources to meet the energy supply demand.

Pakistan has considerable potential of wind, solar, hydro and biomass and other alternative renewable energy resources. Therefore, the Government is considering to increase investment for further development of renewable energy resources. The Government is also determined to improve renewable energy capacity to around 20% of total electricity generation by 2025.

The development of indigenous coal resources and utilization of imported coal can play a vital role in improving the Pakistan's future energy mix. Pakistan is moving quickly to devise a strategy to develop and increase coal based power generation.

The formulation of the National Energy Policy by the Ministry of Energy and National Electricity Plan (Indicative Generation Capacity Expansion Plan (IGCEP) 2047) was successfully completed by NTDC/Power Division in FY2019. The IGCEP was presented to the regulator NEPRA in March 2020.

I appreciate the efforts of Hydrocarbon Development Institute of Pakistan in producing this credible document about developments in the entire energy sector.

***Mr. Omar Ayub Khan,
Minister (Ministry of Energy),
Petroleum Division,
Government of Pakistan.***

Islamabad, 20 July 2020.

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introduction



INTRODUCTION

Pakistan Energy Yearbook 2019 incorporates the current and last five years historical data of Oil, Gas, Coal, LPG, Electricity and Renewable energy sectors along with the reserves, production, consumption, import and prices etc. The primary commercial energy supplies during 2018-19 have decreased from 86 to 84 million tonnes of oil equivalent (mtoe) mainly due to decrease in supply of oil (19.8%) and LPG (9.5%) as compared to last year. In order to meet the gas needs of our country, 8.9 mtoe of LNG was imported during 2018-19 which is 18.9% more than previous year. There was significant increase in renewable electricity (21.4%), LNG (18.9%), coal (18.4%) and nuclear electricity (0.3%) as compared to last year. However, the overall primary commercial energy supply mix during 2018-19 decreased by 2.9% than the previous year.

The annual compound growth rate of final energy consumption has seen a growth of 6.7% during last six years. The major increase was seen in other government (130.9%) and domestic sectors (4.8%). The increase in other government sector was due to inclusion of (i) RLNG withheld by SSGC and (ii) introduction of general services category by K-Electric.

Local crude oil production moved down slightly by 0.2% from 89,197 barrels per day in 2017-18 to 89,030 barrels per day in 2018-19. Natural gas production also decreased by 1.5% from 3,997 MMCFD in 2017-18 to 3,936 MMCFD in 2018-19. Extensive activity was seen in the upstream sector where 36 exploratory and 67 development/appraisal wells were drilled. The drilling efforts resulted in 22 discoveries mostly of gas/condensate.

The overall import of petroleum products was decreased by 34% as compared to the last year. Import of crude oil by the refineries was also decreased by 13.2%. In 2018-19, 5.4 mtoe motor spirit was imported to meet the transport sector demand which was 9.8% more as compared to previous year. The oil import bill decreased from US\$ 11.9 billion in 2017-18 to US\$ 10.6 billion in 2018-19.

The overall oil consumption during 2018-19 decreased significantly by 22.1% from 24.7 million tonnes to 19.2 million tonnes. The consumption of furnace oil decreased to 52.5%, HOBC 30.7%, HSD 18.6%, aviation fuel 12.2% and kerosene 10.1%. However, consumption of LDO and motor spirit increased by 19.9% and 2.9% respectively as compared to last year.

During 2018-19, natural gas consumption decreased slightly from 1,454,697 MMCft to 1,453,517 MMCft. RLNG import increased from 313,902,345 MMBtu to 373,410,403 MMBtu (18.9%). Gas consumption in domestic sector increased from 284,428 MMCft to 311,887 MMCft (9.7%).

During 2018-19, domestic production of coal was 5.46 mtoe, showed an increase of 35.9% over the last year. This was the first year in which production started flowing from Thar coal field. The import of coal was also increased by 14.6% during 2018-19 over the previous year. The overall coal consumption was increased considerably by 19.7% as compared to last year.

As of June 30th, 2019, the total electricity installed capacity was increased to 35,114 MW from 33,554 MW in 2017-18 which was mainly due to the addition of two new hydel power plants in the national grid having combined capacity of 1,518 MW. During 2018-19, the installed capacity of renewable electricity was also increased to 1,698 MW as compared to 1,637 MW in 2017-18.

This year 4,682 GWh of electricity was generated from renewable sources (solar, wind and bagasse etc.).

During 2018-19, 128,532 GWh electricity was generated as against 131,275 GWh in 2017-18 (2.1% decrease). Renewable electricity generation increased from 3,857 GWh to 4,682 GWh (21.4%), while and nuclear generation also increased from 9,880 GWh to 9,909 GWh (0.3%). Thermal Generation during 2018-19 decreased from 89,614 GWh to 86,602 GWh (3.4%), hydel generation decreased from 27,925 GWh to 27,339 GWh (2.1%) and electricity import decreased from 556 GWh to 487 GWh (12.4%). However, the annual compound growth rate of electricity consumption has shown growth of 5.6%.

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Muhammad Ayub Chaudhry
Director General,
Hydrocarbon Development Institute of Pakistan.

energy situation

Total primary commercial energy supplies in 2018-19

84 million toes



2.9%

lower than 2017-18 because of major decrease in supplies of oil and LPG.

Share of Sources

Oil	25.7%
Gas	35.0%
LNG Import	10.6%
LPG	1.1%
Coal	15.4%
Electricity	12.1%

Total final energy consumption in 2018-19

55 million toes



0.01%

slightly higher than 2017-18 and the major increase in consumption of domestic and other government sector.

Share of Sources

Industrial	37.1%
Transport	31.0%
Domestic	22.2%
Commercial	3.4%
Other Govt.	4.7%
Agriculture	1.5%

Table: 1.1

PRIMARY ENERGY SUPPLIES BY SOURCE							
Source	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	Unit: TOE % Share ACGR
Oil ¹	23,006,510 34.4%	24,970,360 35.5%	25,280,073 34.2%	27,366,526 34.4%	26,903,431 31.2%	21,568,315 25.7%	-1.3%
Gas	30,964,868 46.3%	29,977,755 42.7%	30,460,521 41.2%	30,163,334 37.9%	29,849,030 34.6%	29,318,489 35.0%	-1.1%
LNG Import ²		472,503 0.7%	2,404,128 3.3%	4,455,734 5.6%	7,492,597 8.7%	8,913,006 10.6%	
LPG ³	363,710 0.5%	457,197 0.7%	908,705 1.2%	1,008,673 1.3%	1,054,006 1.2%	953,834 1.1%	21.3%
Coal	3,590,386 5.4%	4,952,556 7.0%	5,066,935 6.9%	6,482,401 8.1%	10,925,200 12.7%	12,933,087 15.4%	29.2%
Hydro Electricity ⁴	7,607,804 11.4%	7,751,133 11.0%	8,266,670 11.2%	7,681,699 9.7%	6,665,328 7.7%	6,525,607 7.8%	-3.0%
Nuclear Electricity ⁴	1,215,042 1.8%	1,385,283 2.0%	1,099,261 1.5%	1,670,560 2.1%	2,358,200 2.7%	2,365,268 2.8%	14.3%
Renewable Electricity		191,407 0.3%	369,731 0.5%	636,825 0.8%	920,580 1.1%	1,117,482 1.3%	
Imported Electricity	99,907 0.1%	105,632 0.2%	110,525 0.1%	118,480 0.1%	132,659 0.2%	116,196 0.1%	3.1%
TOTAL:	66,848,227 100.0%	70,263,825 100.0%	73,966,548 100.0%	79,584,246 100.0%	86,301,031 100.0%	83,811,284 100.0%	4.6%
Annual growth rate	3.50%	5.11%	5.27%	7.59%	8.44%	-2.88%	

1/ Excluding petroleum products exports and bunkering.

2/ LNG Imports and Renewable generation reported for the first time in FY 2014-15.

3/ Include imports and production from field plants.

4/ Converted @ 10,000 Btu/kWh to represent primary energy equivalent of hydro and nuclear electricity as if this was generated by using fossil fuels.

5/ WAPDA has been Importing electricity from Iran since Oct-2002.

Table: 1.2

FINAL ENERGY CONSUMPTION BY SOURCE							
Source	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	Unit: TOE ACGR
Oil ¹	12,718,011 31.9%	13,851,467 33.0%	16,290,075 35.8%	17,904,977 35.7%	19,264,954 35.0%	17,364,897 31.6%	6.4%
Gas ²	16,277,023 40.9%	15,755,616 37.5%	15,544,358 34.2%	17,031,100 34.0%	16,693,880 30.4%	17,275,180 31.4%	1.2%
Coal ²	3,446,131 8.7%	4,631,627 11.0%	4,975,472 11.0%	6,097,816 12.2%	8,940,477 16.3%	10,292,739 18.7%	24.5%
Electricity ³	6,792,794 17.1%	6,989,011 16.6%	7,364,702 16.2%	7,779,939 15.5%	8,708,151 15.8%	8,914,489 16.2%	5.6%
LPG	585,560 1.5%	756,414 1.8%	1,210,419 2.7%	1,308,471 2.6%	1,385,427 2.5%	1,148,380 2.1%	14.4%
TOTAL:	39,819,518	41,984,134	45,385,026	50,122,304	54,992,889	54,995,686	6.7%
Annual growth rate	-0.91%	5.44%	8.10%	10.44%	9.72%	0.01%	

1/ Excluding consumption for power generation.

2/ Excluding consumption for power generation and feedstock. Gas consumption also includes RLNG withheld by SSGC.

3/ @ 3412 Btu/kWh being the actual energy content of electricity.

Also includes General Services Category introduced post notification of K-Electric's MYT on May 22, 2019.

Table: 1.3

PRIMARY ENERGY BALANCE SHEET 2018-19

	Natural Gas @		Crude Oil		Petroleum Products		Liquefied Petroleum Gas	Coal	Hydro ***	Nuclear ***	Renewable ***	Electricity ***	Total
	Raw Gas *	Processed Gas **	Total Gas	Energy	Non Energy								
ENERGY SUPPLIES													
a	29,334,136		29,334,136	4,359,542			662,627	2,613,350	6,525,607	2,365,268	1,117,482		46,978,013
b		8,913,006	8,913,006	9,269,047	9,307,302		272,372	10,319,737				116,196	38,197,660
c				-572,629	-929,759	-1,811							-1,504,199
d			-15,648	-121,292	307,179	-49,265	18,836						139,811
e	29,334,136	8,913,006	38,231,495	12,934,668	8,684,723	-51,076	953,834	12,933,087	6,525,607	2,365,268	1,117,482	116,196	83,811,284
TRANSFORMATIONS													
f	-23,846,938	20,170,067	-3,661,223										-3,661,223
g				-13,098,985	12,042,973	506,727	209,335						-339,950
h	-2,716,669	-7,333,432	-10,050,101		-2,688,911	-736		-2,640,347	-6,525,607	-2,365,268	-1,117,482	11,203,845	-14,184,607
j			-13,711,324	-13,098,985	9,354,062	505,991	209,335	-2,640,347	-6,525,607	-2,365,268	-1,117,482	11,203,845	-18,185,781
DIVERSIONS													
k			-2,949,619									-2,178,132	-5,127,751
l			-452,988		-2,47,786	0	-43,329					-227,421	-971,523
m	-2,246,773	-1,595,612	-3,842,384			-345,057		0				0	-4,187,441
n												0	0
o				164,317	-426,101	-109,858	28,540						-343,102
p			17,275,180	0	17,364,897	0	1,148,380	10,292,739	0	0	0	8,914,489	54,995,686
SECTORAL USES OF FINAL ENERGY													
q			7,298,154		62,470		481,982	0				4,372,102	12,214,708
r			730,188				449,387					693,306	1,872,881
s			6,477,217		1,307,193			10,292,739				2,342,205	20,419,355
t								2,412,020					
u			9,061					7,880,719					
v	523,758	171,489	695,246										
w1			17,503										
w2			5,755,407										
x					15,649							798,870	814,519
y			1,523,315		15,549,796							0	17,073,111
z			1,246,306		429,790		217,011					708,007	2,601,113

@ Includes associated and non-associated gases.

* Raw Gas includes gas supplied by production companies to gas distribution companies and directly to major consumers like power and fertilizer plants.

** Processed Gas includes gas supplied after processing by gas distribution companies to various consumers.

*** Hydro and Nuclear energy inputs for electricity generation are expressed in terms of equivalent primary energy at 10,000 Btu/kWh, whereas electricity generated in power plants and supplied to consumers is expressed in terms of actual energy content viz. 3,412 Btu/kWh.

+ for withdrawal from stocks and - for addition to stocks.

** Includes LNG imported during 2014-15.

1 Includes RLNG withheld by SSGC. Also includes General Service category introduced post notification of K-Electric's MYT on May 22, 2019.

Unit: TOE

Table: 1.4
ENERGY BALANCES 2013-14 TO 2018-19

Source	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Unit: TOE							
OIL PRODUCTS (ENERGY)							
Opening Stock	899,612	899,612	895,894	1,091,585	1,091,585	1,636,427	12.7%
Prod. from ARL, DRL ^{1/}	1,894,398	1,927,214	1,613,565	2,159,286	2,192,788	2,222,278	3.2%
Prod. from Other* Refineries	9,174,603	8,785,771	9,194,565	9,548,070	10,943,359	9,820,695	1.4%
Petroleum Products Imports	11,645,545	13,568,077	13,841,373	15,493,772	13,781,798	9,307,302	-4.4%
Gross Supply	23,614,158	25,180,674	25,545,398	28,292,712	28,009,530	22,986,702	-0.5%
Refineries Own Use	-167,975	-169,350	-176,081	-206,970	-246,091	-247,786	8.1%
Exports/Bunkers	-1,278,605	-1,392,988	-1,200,685	-1,110,299	-1,181,047	-929,759	-6.2%
Power Plants	-8,791,738	-8,800,431	-7,583,155	-8,328,980	-6,223,984	-2,688,911	-21.1%
Closing Stock	-749,367	-895,894	-1,091,585	-1,193,497	-1,636,427	-1,329,248	12.1%
Net Supply	12,626,474	13,922,010	15,493,892	17,452,966	18,721,981	17,790,999	7.1%
T & D Losses & Stat. Diff.	91,537	-70,543	796,182	452,011	542,973	-426,101	-236.0%
Net Consumption	12,718,011	13,851,467	16,290,075	17,904,977	19,264,954	17,364,897	6.4%
GAS							
Opening Stock in Pipeline	98,197	85,505	113,387	97,869	123,270	146,813	8.4%
Processed by SSGC ^{2/}	8,936,263	10,074,537	10,601,917	10,038,536	9,944,828	9,733,086	1.7%
Direct Supplies ^{3/}	18,834,913	17,940,033	16,572,594	17,284,368	17,376,869	15,815,604	-3.4%
Associated Gas ^{4/}	158,633	113,343	774,406	773,512	78,416	108,576	-7.3%
LNG Imports		472,503	2,404,128	4,455,734	7,492,597	8,913,006	
Closing Stock in Pipeline	-85,505	-113,387	-97,869	-123,270	-146,813	-162,461	13.7%
Gross Supply	27,942,501	28,572,534	30,368,563	32,526,750	34,869,167	34,554,624	4.3%
Used for Compression, etc.	-176,181	-143,352	-147,076	-184,979	-219,326	-452,988	20.8%
Feedstock for Fertilizer	-3,024,845	-3,088,834	-3,559,855	-3,622,881	-3,500,893	-3,842,384	4.9%
Power Plants	-6,602,422	-6,847,894	-8,577,146	-8,643,403	-10,831,662	-10,050,101	8.8%
Net Supply	18,139,053	18,492,455	18,084,486	20,075,487	20,317,285	20,209,152	2.2%
T & D Losses & Stat. Diff.	-1,862,030	-2,736,839	-2,540,127	-3,044,387	-3,623,406	-2,933,971	9.5%
Net Consumption	16,277,023	15,755,616	15,544,358	17,031,100	16,693,880	17,275,180	1.2%
LPG							
Opening Stock	1,956	1,956	1,889	1,902	1,902	20,580	60.1%
Indigenous Production	509,133	506,929	694,029	721,851	847,798	871,961	11.4%
Imports	76,916	157,561	403,386	499,217	435,665	272,372	28.8%
Closing Stock	-1,464	-1,889	-1,902	-21,345	-20,580	-1,744	3.6%
Gross Supply	586,541	664,558	1,097,402	1,201,625	1,264,785	1,163,169	14.7%
Refineries Own Use	-31,678	-13,936	-46,623	-41,351	-41,351	-43,329	6.5%
Net Supply	554,863	650,622	1,050,779	1,160,261	1,223,434	1,119,840	15.1%
T & D Losses & Stat. Diff.	30,697	105,792	159,640	148,211	161,993	28,540	-1.4%
Net Consumption	585,560	756,414	1,210,419	1,308,471	1,385,427	1,148,380	14.4%
COAL							
Indigenous Production	1,538,294	1,660,552	1,852,922	1,863,388	1,922,565	2,613,350	11.2%
Imports	2,052,092	3,292,004	3,214,013	4,619,013	9,002,635	10,319,737	38.1%
Gross Supply	3,590,386	4,952,556	5,066,935	6,482,401	10,925,200	12,933,087	29.2%
Power Plants	-71,902	-67,638	-91,463	-384,585	-1,984,722	-2,640,347	105.6%
Feedstock for Coke	-72,354	-253,292	0	0	0	0	
Net Supply	3,446,131	4,631,627	4,975,472	6,097,816	8,940,477	10,292,739	24.5%
Net Consumption	3,446,131	4,631,627	4,975,472	6,097,816	8,940,477	10,292,739	24.5%
ELECTRICITY^{5/}							
Hydel Generation	2,595,750	2,644,653	2,820,552	2,620,962	2,274,181	2,226,509	-3.0%
Thermal Generation	5,432,580	5,528,662	5,742,489	6,618,468	7,298,135	7,052,835	5.4%
Nuclear Generation	414,567	472,653	375,063	569,988	804,608	807,019	14.3%
Renewable Generation		191,407	369,731	636,825	920,580	1,117,482	
Gross Generation	8,442,897	8,837,375	9,307,835	10,446,243	11,297,503	11,203,845	5.8%
Auxiliary Consumption	-305,997	-324,466	-335,785	-366,676	-308,935	-227,421	-5.8%
Net Generation	8,136,900	8,512,908	8,972,050	10,079,567	10,988,568	10,976,425	6.2%
Net purchases from PASMIC	710	1,716	8	0	0	0	
Net Supply	8,137,610	8,514,625	8,972,058	10,079,567	10,988,568	10,976,425	6.2%
Imports	99,907	105,632	110,525	118,480	132,659	116,196	3.1%
Total Net Supply	8,237,517	8,620,257	9,082,583	10,198,047	11,121,227	11,092,621	6.1%
T & D Losses & Stat. Diff.	-1,444,724	-1,631,246	-1,717,881	-2,418,108	-2,413,076	-2,178,132	8.6%
Net Consumption	6,792,794	6,989,011	7,364,702	7,779,939	8,708,151	8,914,489	5.6%
TOTAL ENERGY							
Net Supply	43,004,037	46,316,971	48,687,211	54,984,591	60,324,404	60,505,351	7.1%
T & D Losses & Stat. Diff.	-3,184,519	-4,332,836	-3,302,185	-4,862,286	-5,331,515	-5,509,665	11.6%
Net Consumption	39,819,518	41,984,134	45,385,026	50,122,304	54,992,889	54,995,686	6.7%

1/ Excluding LPG production. ARL, DRL & Enar refine only local crudes, Bosicor & PARCO refine only imported crudes while PRL & NRL refine both.

2/ Since 2001-02, gas processed/withdrawn by SSGCL and supplied to southern distribution systems from Sui, Badin etc. areas.

3/ Direct supplies to thermal & fertilizer plants and non-associated gas from fields other than (2).

4/ Production from oilfields in north. Production of associated gas from Badin area is processed by SSGC and is included in (2).

5/ @ 3412 Btu/kWh.

* Byco, NRL, PARCO, PRL

Table: 1.5

ENERGY CONSUMPTION BY SECTOR							
Sector	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	Unit: TOE
							ACGR
Domestic	9,881,983	10,286,929	10,513,575	11,343,757	11,660,210	12,214,708	4.3%
Commercial	1,655,515	1,665,042	1,819,146	1,875,228	2,009,982	1,872,881	2.5%
Industrial	13,772,078	14,844,302	15,928,956	17,927,974	20,601,909	20,419,355	8.2%
Agriculture	723,704	693,012	709,513	764,194	839,993	814,519	2.4%
Transport	12,934,115	13,584,670	15,287,332	17,007,968	18,637,229	17,073,111	5.7%
Other Govt.	852,124	910,179	1,126,504	1,203,183	1,243,567	2,601,113	25.0%
Total:	39,819,518	41,984,134	45,385,026	50,122,304	54,992,889	54,995,686	6.7%

Note: See tables 1.5.1 to 1.5.6 for details and explanations.

Table: 1.5.1

Energy Consumption in Domestic Sector							
Source	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	Unit: TOE
							ACGR
Oil	103,859	91,829	76,706	79,607	68,162	62,470	-9.7%
Gas	6,297,770	6,506,824	6,348,456	6,806,322	6,655,612	7,298,154	3.0%
LPG	259,494	312,629	465,446	491,857	536,415	481,982	13.2%
Electricity *	3,220,860	3,375,647	3,622,967	3,965,972	4,400,021	4,372,102	6.3%
Total:	9,881,983	10,286,929	10,513,575	11,343,757	11,660,210	12,214,708	4.3%
Annual growth rate	-2.34%	4.10%	2.20%	7.90%	2.79%	4.76%	

* @ 3412 Btu/kWh.

Table: 1.5.2

Energy Consumption in Commercial Sector							
Source	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	Unit: TOE
							ACGR
LPG	244,393	311,330	447,286	466,537	558,022	449,387	13.0%
Gas	891,927	823,381	787,005	768,884	751,052	730,188	-3.9%
Electricity *	519,195	530,331	584,855	639,808	700,907	693,306	6.0%
Total:	1,655,515	1,665,042	1,819,146	1,875,228	2,009,982	1,872,881	2.5%
Annual growth rate	0.65%	0.58%	9.26%	3.08%	7.19%	-6.82%	

* @ 3412 Btu/kWh.

Table: 1.5.3

Energy Consumption in Industrial Sector

Source	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	Unit: TOE
							ACGR
Oil	1,305,675	1,309,459	2,013,945	1,992,437	1,785,880	1,307,193	0.0%
Gas *	7,036,680	6,868,906	6,900,651	7,882,359	7,638,566	6,477,217	-1.6%
Electricity **	1,983,592	2,034,309	2,038,889	1,955,361	2,236,985	2,342,205	3.4%
Coal	3,446,131	4,631,627	4,975,472	6,097,816	8,940,477	10,292,739	24.5%
Total:	13,772,078	14,844,302	15,928,956	17,927,974	20,601,909	20,419,355	8.2%
Annual growth rate	-3.40%	7.79%	7.31%	12.55%	14.91%	-0.89%	

* Includes energy consumption in fertilizer production. Also refer to Table 1.7.

** @ 3412 Btu/kWh.

Table: 1.5.4

Energy Consumption in Agricultural Sector

Source	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	Unit: TOE
							ACGR
Oil *	48,605	38,791	15,119	13,201	15,134	15,649	-20.3%
Electricity **	675,099	654,221	694,395	750,993	824,859	798,870	3.4%
Total:	723,704	693,012	709,513	764,194	839,993	814,519	2.4%
Annual growth rate	9.65%	-4.24%	2.38%	7.71%	9.92%	-3.03%	

* HSD consumption for tractors in agriculture sector is not separately available and is included in the transport sector. Agriculture sector represents LDO only.

** @ 3412 Btu/kWh.

Table: 1.5.5

Energy Consumption in Transport Sector

Source	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	Unit: TOE
							ACGR
Aviation Fuel	501,906	427,344	477,992	499,677	473,929	361,405	-6.4%
Motor Spirit	4,057,635	4,984,851	6,076,351	7,004,423	7,847,016	8,084,795	14.8%
HOBC	11,641	21,618	40,878	93,157	129,380	89,970	50.5%
E-10	2,720	0	0	0	0	0	
Kerosene	78	74	59	38	41	25	-20.6%
HSD	6,308,838	6,593,609	7,181,583	7,834,580	8,537,787	7,013,274	2.1%
LDO	0	0	715	0	0	0	
Furnace Oil	651	669	1,509	2,558	426	327	-12.9%
Electricity *	0	0	0	0	0	0	
Natural Gas **	2,050,646	1,556,505	1,508,246	1,573,536	1,648,649	1,523,315	-5.8%
Total:	12,934,115	13,584,670	15,287,332	17,007,968	18,637,229	17,073,111	5.7%
Annual growth rate	1.74%	5.03%	12.53%	11.26%	9.58%	-8.39%	

* @ 3412 Btu/kWh. Includes railway traction.

** Compressed Natural Gas (CNG).

Table: 1.5.6

Energy Consumption in Other / Government Sector

Source	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	Unit: TOE
							ACGR
Oil	376,403	383,222	405,220	385,300	407,198	429,790	2.7%
Electricity *	394,047	394,502	423,597	467,805	545,379	708,007	12.4%
LPG	81,674	132,455	297,687	350,078	290,989	217,011	21.6%
Gas **						1,246,306	
Total:	852,124	910,179	1,126,504	1,203,183	1,243,567	2,601,113	25.0%
Annual growth rate	7.65%	6.81%	23.77%	6.81%	3.36%	109.17%	

* @ 3412 Btu/kWh. Also include bulk supplies and street light. Also includes General Services Category introduced post notification of K-Electric's MYT on May 22, 2019.

** Includes RLNG with held by SSGC.

Table: 1.6

FOSSIL FUELS CONSUMPTION IN THERMAL POWER GENERATION

Source	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	Unit: TOE
							ACGR
Oil	8,791,738	8,800,431	7,583,155	8,328,980	6,223,984	2,688,911	-21.1%
Gas	6,602,422	6,847,894	8,577,146	8,643,403	10,831,662	10,050,101	8.8%
Coal	71,902	67,638	91,463	384,585	1,984,722	2,640,347	105.6%
Total:	15,466,061	15,715,963	16,251,764	17,356,967	19,040,369	15,379,360	-0.1%
Annual growth rate	5.40%	1.62%	3.41%	6.80%	9.70%	-19.23%	

Figure 1.1

PRIMARY ENERGY SUPPLIES BY SOURCE

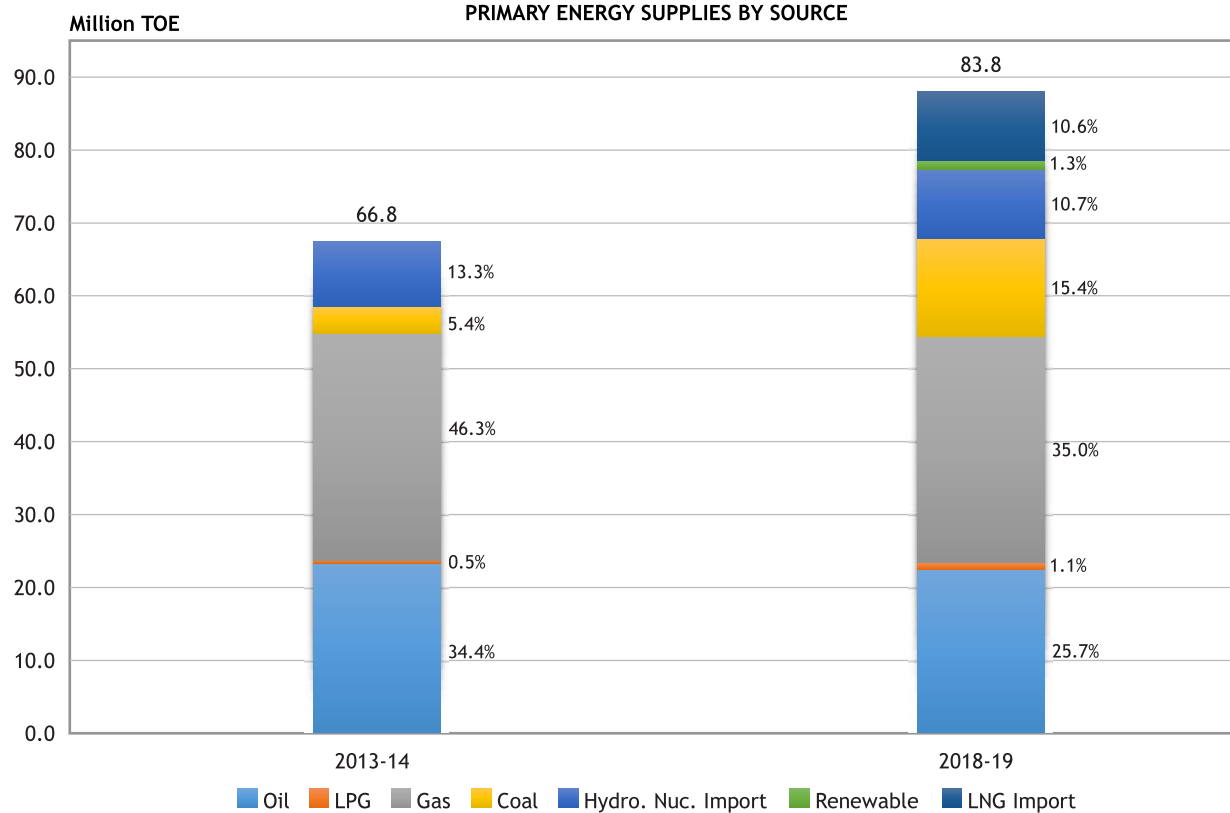
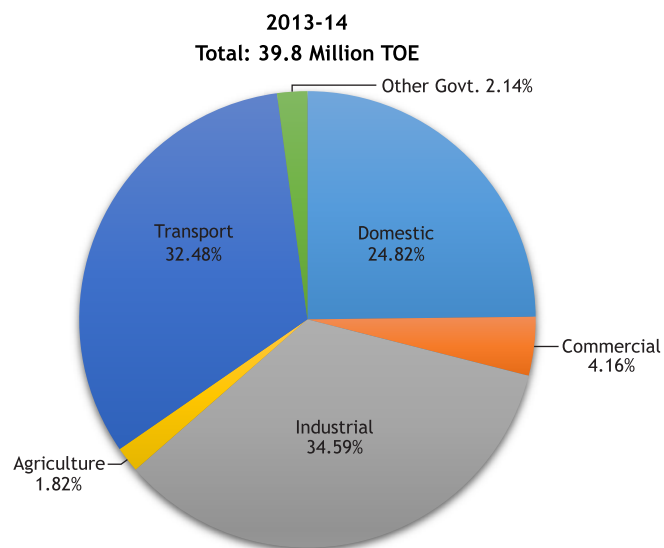
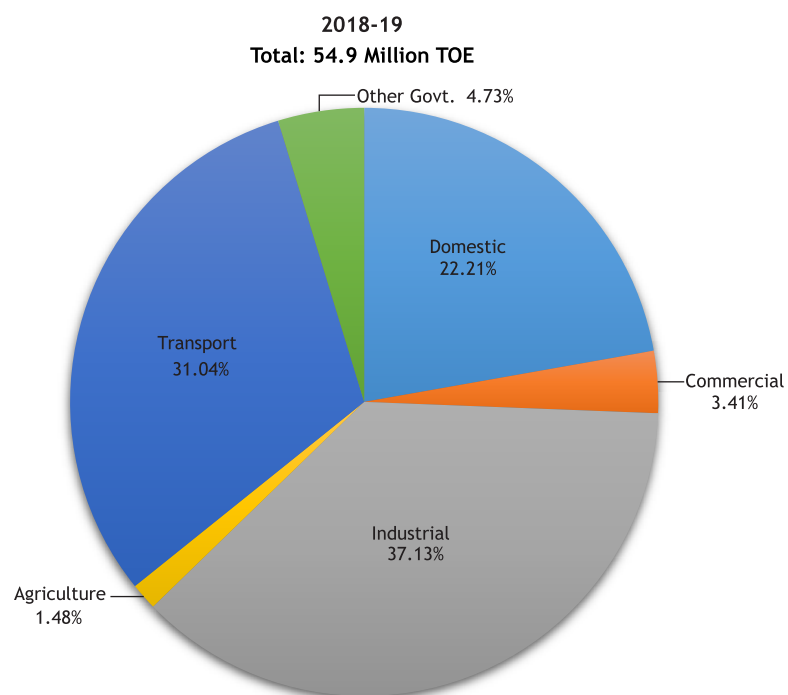


Table: 1.7

ENERGY AND NON-ENERGY USES OF GAS IN FERTILIZER SECTOR

Source	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	Unit: TOE ACGR
Feedstocks	3,024,845	3,088,834	3,559,855	3,622,881	3,500,893	3,842,384	4.9%
Energy Use	963,123	1,064,643	1,471,520	1,737,760	1,204,500	695,246	-6.3%
Total:	3,987,968	4,153,476	5,031,375	5,360,641	4,705,392	4,537,630	2.6%
Annual growth rate	14.52%	4.15%	21.14%	6.54%	-12.22%	-3.57%	

Figure 1.2
ENERGY CONSUMPTION BY SECTOR
(Excluding fuels consumed in thermal power generation)



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Part 2

oil

2018-19

■	Reserves (Balance Recoverable)	568 million barrels
■	Production	32 million barrels
■	Refining Capacity	19.37 million tonnes/year
■	Crude Processed	12.8 million tonnes
■	Refinery Production	12.3 million tonnes
■	Consumption	19.2 million tonnes
■	Import of Crude	8.9 million tonnes
■	Import of POL	8.8 million tonnes
■	Import Bill	10.6 billion US\$

Table: 2.1

CRUDE OIL 2P RESERVES AS ON JUNE 30, 2019

Unit: Million US Barrels

	FIELD	Operator Company	Province	Original Recoverable Reserves	Cumulative Production	Balance Recoverable Reserves
1	Savi Ragha	BG	Balochistan	1.350	-	1.350
2	Zamzama	OPPL	Sindh	10.409	9.810	0.599
3	Ghauri	MPCL	Punjab	0.928	0.888	0.040
4	Halini	"	Punjab	4.810	3.087	1.723
5	Manzalai	MOL	KPK	7.500	7.000	0.500
6	Makori	"	KPK	3.800	3.800	
7	Makori East	"	KPK	39.200	28.900	10.300
8	Makori Deep	"	KPK	4.300	1.300	3.000
9	Mamikhel	"	KPK	3.500	3.300	0.200
10	Maramzai	"	KPK	17.800	10.700	7.100
11	Mardankhel	"	KPK	12.400	3.300	9.100
12	Tolanj	"	KPK	0.020	0.020	
13	Tolanj West	"	KPK	0.060	0.010	0.050
14	Bagla	OGDCL	Sindh	0.176	0.134	0.042
15	Baloch	"	Sindh	0.640	0.454	0.186
16	Bhal Syedan	"	Punjab	0.480	0.455	0.025
17	Bhulan Shah	"	Sindh	-	-	-
18	Bitrism West	"	Sindh	1.083	0.029	1.054
19	Bobi	"	Sindh	6.142	6.137	0.005
20	Buzdar North	"	Sindh	-	-	-
21	Chak-2	"	Sindh	1.571	1.093	0.478
22	Chak-7A	"	Sindh	0.283	0.259	0.024
23	Chak-63	"	Sindh	2.886	0.662	2.224
24	Chak-63 SE	"	Sindh	0.436	0.427	0.009
25	Chak-66	"	Sindh	0.100	-	0.100
26	Chak-66 NE	"	Sindh	0.396	0.271	0.125
27	Chak-5 Dim South	"	Sindh	2.930	2.460	0.470
28	Chak-Naurang	"	Punjab	7.296	7.027	0.269
29	Chanda	"	KPK.	21.948	17.713	4.235
30	Chandio	"	Sindh	0.577	-	0.577
31	Chabaro	"	Sindh	0.034	-	0.034
32	Chhutto	"	Sindh	0.626	0.086	0.540
33	Dakhni/Deep	"	Punjab	11.170	9.476	1.694
34	Dars	"	Sindh	0.460	0.279	0.181
35	Dars West	"	Sindh	1.556	0.389	1.167
36	Dars Deep	"	Sindh	0.122	0.090	0.032
37	Daru	"	Sindh	0.549	0.519	0.030
38	Dhamraki	"	Sindh	1.220	1.220	-
39	Dhodak	"	Punjab	12.386	12.376	0.010
40	Dhodak Deep	"	Punjab	-	-	-
41	Hakeem Daho	"	Sindh	1.777	0.547	1.230
42	Fimkassar	"	Punjab	14.274	13.987	0.287
43	Gopang	"	Sindh	0.001	0.001	-
44	Gundanwari	"	Sindh	0.018	-	0.018
45	Jakhro	"	Sindh	0.283	0.217	0.066
46	Jand	"	Sindh	0.009	-	0.009
47	Jarwar	"	Sindh	0.230	0.204	0.026
48	Jhal Magsi South	"	Baloch.	0.095	-	0.095
49	Kal	"	Punjab	9.900	8.539	1.361
50	Kunar	"	Sindh	38.924	32.131	6.793
51	Kunar Deep	"	Sindh	5.588	1.927	3.661
52	Kunar South	"	Sindh	0.489	0.062	0.427

Contd/...

Crude Oil 2P Reserves (Contd...)

	FIELD	Operator Company	Province	Original Recoverable Reserves	Cumulative Production	Balance Recoverable Reserves
53	Kunar West	OGDCL	Sindh	0.511	0.188	0.323
54	Lala Jamali	"	Sindh	0.497	0.222	0.275
55	Lashari Centre	"	Sindh	13.810	12.762	1.048
56	Lashari South	"	Sindh	-	-	-
57	Mela	"	KPK	35.584	14.930	20.654
58	Missa Keswal	"	Punjab	10.298	10.148	0.150
59	Missan	"	Sindh	1.632	1.435	0.197
60	Mithrao	"	Sindh	-	-	-
61	Moolan	"	Sindh	0.197	0.035	0.162
62	Moolan North	"	Sindh	0.674	0.601	0.073
63	Nashpa	"	KPK	106.461	52.703	53.758
64	Norai Jagir	"	Sindh	0.380	0.370	0.010
65	Nur	"	Sindh	0.160	0.010	0.150
66	Nim	"	Sindh	0.084	0.052	0.032
67	Pakhro	"	Sindh	-	-	-
68	Pali	"	Sindh	-	-	-
69	Pali Deep	"	Sindh	0.875	0.479	0.396
70	Pasakhi/Pasakhi NE	"	Sindh	56.207	44.504	11.703
71	Pasakhi Deep	"	Sindh	3.056	0.698	2.358
72	Pasakhi East	OGDCL	Sindh	0.173	0.086	0.087
73	Pasakhi WD	"	Sindh	0.240	0.002	0.238
74	Qadirpur	"	Sindh	5.937	5.349	0.588
75	Rajian	"	Punjab	16.605	13.078	3.527
76	Resham	"	Sindh	0.215	0.173	0.042
77	Saand	"	Sindh	0.085	-	0.085
78	Sadkal	"	Punjab	5.149	5.071	0.078
79	Shah	"	Sindh	0.173	0.088	0.085
80	Shekhan	"	Sindh	0.010	0.010	-
81	Soghri	"	Sindh	0.432	0.143	0.289
82	Sono	"	Sindh	20.610	19.850	0.760
83	Tando Alam	"	Sindh	20.227	18.914	1.313
84	Tando Allah Yar	"	Sindh	0.791	0.310	0.481
85	Tando Allah Yar North	"	Sindh	0.213	-	0.213
86	Tando Allah Yar SW	"	Sindh	0.163	-	0.163
87	Thal West	"	Sindh	0.004	-	0.004
88	Thora	"	Sindh	20.746	20.216	0.530
89	Thora Deep	"	Sindh	0.265	0.087	0.178
90	Toot	"	Punjab	14.404	13.843	0.561
91	Uch	"	Baloch.	0.361	0.201	0.160
92	Unar	"	Sindh	0.268	0.072	0.196
93	Bhangali	OPL	Punjab	6.660	3.750	2.910
94	Dhurnal	"	Punjab	60.610	50.850	9.760
95	Ratana	"	Punjab	5.860	3.030	2.830
96	Mehar	UEP Alpha	Sindh	4.345	2.323	2.022
97	Sofiya	"	Sindh	1.206	0.377	0.829
98	Miano	UEP Beta	Sindh	0.359	0.316	0.043
99	Latif	"	Sindh	0.228	0.098	0.130
100	Ayesha	PEL	Sindh	67.200	-	67.200
101	Ayesha North	"	Sindh	68.900	-	68.900
102	Aminah	"	Sindh	35.700	-	35.700
103	Zainab	"	KPK	110.000	-	110.000
104	Balkassar	POL	Punjab	38.750	36.100	2.650
105	Bela	"	Punjab	0.260	0.070	0.190
106	Domial	"	Punjab	-	-	-
107	Dhulian	"	Punjab	42.880	42.450	0.430
108	Jhandial	"	Punjab	23.990	0.460	23.530

Contd/...

Crude Oil 2P Reserves (Contd...)

	FIELD	Operator Company	Province	Original Recoverable Reserves	Cumulative Production	Balance Recoverable Reserves
109	Joyamair	POL	Punjab	21.010	7.730	13.280
110	Khaur	"	Punjab	4.310	4.260	0.050
111	Meyal	"	Punjab	42.750	42.170	0.580
112	Minwal	"	Punjab	1.610	1.070	0.540
113	Pariwali	"	Punjab	9.000	8.600	0.400
114	Pindori	"	Punjab	26.170	24.120	2.050
115	Turkwal	"	Punjab	2.800	2.780	0.020
116	Adhi	PPL	Punjab	54.740	40.670	14.070
117	Adhi (Sakessar)	"	Punjab	7.300	5.590	1.710
118	Adhi South	"	Punjab	10.610	0.500	10.110
119	Adam	"	Sindh	0.950	0.870	0.080
120	Adam West	"	Sindh	0.090	0.040	0.050
121	Badeel	"	Sindh	0.300	-	0.300
122	Dhok Sultan	"	Punjab	1.050	-	1.050
123	Fazl	"	Sindh	0.020	-	0.020
124	Hadaf	"	Sindh	0.500	-	0.500
125	Kandhkot	"	Sindh	0.400	0.350	0.050
126	Mazarani	"	Sindh	0.220	0.220	-
127	Wafiq	"	Sindh	-	-	-
128	Sharf	"	Sindh	3.900	0.540	3.360
129	Kinza	"	Sindh	0.020	-	0.020
130	Kabir	"	Sindh	0.890	0.060	0.830
131	Faiz	"	Sindh	-	-	-
132	Shahdad	"	Sindh	0.410	0.160	0.250
133	Zafir	"	Sindh	0.980	-	0.980
134	Akri North	UEPL	Sindh	6.251	6.203	0.048
135	Ali	"	Sindh	0.113	0.112	0.001
136	Ali-2	"	Sindh	0.017	0.002	0.015
137	Ali Zaur	"	Sindh	0.586	0.586	-
138	Aassu	"	Sindh	3.194	3.164	0.030
139	Bachal	"	Sindh	0.172	0.151	0.021
140	Babarki	"	Sindh	0.005	0.005	-
141	Bago	"	Sindh	0.013	0.002	0.011
142	Bari	"	Sindh	4.095	3.376	0.719
143	Baqar Deep	"	Sindh	0.022	0.022	-
144	Bakhsh Deep	"	Sindh	0.081	0.068	0.013
145	Bhatti/Nakurji	"	Sindh	1.849	1.849	-
146	Bhanoki	"	Sindh	0.007	0.007	-
147	Bijoro	"	Sindh	0.810	0.347	0.463
148	Bukhari	"	Sindh	1.758	1.620	0.138
149	Bukhari Deep	"	Sindh	0.156	0.156	-
150	Bukhari North	"	Sindh	0.007	0.004	0.003
151	Buzdar Unit	"	Sindh	0.749	0.745	0.004
152	Buzdar South	"	Sindh	0.439	0.273	0.166
153	Buzdar South Deep	"	Sindh	3.211	2.177	1.034
154	Chaman	"	Sindh	0.043	0.042	0.001
155	Dabhi	"	Sindh	7.540	7.540	-
156	Dabhi South	"	Sindh	0.791	0.645	0.146
157	Dabhi North	"	Sindh	6.281	6.072	0.209
158	Dhani	"	Sindh	0.278	0.025	0.253
159	Dang	"	Sindh	0.023	0.009	0.014
160	Duphri	"	Sindh	0.664	0.664	-
161	Fatehshah	"	Sindh	0.004	0.004	-
162	Fatehshah North	"	Sindh	0.009	0.009	-
163	Gagani	"	Sindh	0.002	0.002	-
164	Gharo	"	Sindh	0.443	0.307	0.136

Contd/...

Crude Oil 2P Reserves (Contd...)

	FIELD	Operator Company	Province	Original Recoverable Reserves	Cumulative Production	Balance Recoverable Reserves
165	Ghungro	UEPL	Sindh	7.753	7.563	0.190
166	Golarchi	"	Sindh	0.238	0.238	-
167	Gormani	"	Sindh	0.018	0.006	0.012
168	Gulsher	"	Sindh	0.491	0.253	0.238
169	Guni	"	Sindh	0.001	0.001	-
170	Haider Deep	"	Sindh	0.508	0.508	-
171	Hakro	"	Sindh	0.051	0.033	0.018
172	Halipota	"	Sindh	3.688	2.042	1.646
173	Hayat	"	Sindh	0.077	0.065	0.012
174	Jagir	"	Sindh	5.250	5.109	0.141
175	Jabo	"	Sindh	5.596	4.626	0.970
176	Jalal	"	Sindh	0.385	0.385	-
177	Jan	"	Sindh	0.127	0.088	0.039
178	Jarar Deep	"	Sindh	0.202	0.202	-
179	Jhaberi	"	Sindh	0.016	0.007	0.009
180	Jhaberi South	"	Sindh	0.223	0.223	-
181	Junathi South	"	Sindh	0.038	0.038	-
182	Jogwani	UEPL	Sindh	0.085	0.085	-
183	Kamal North	"	Sindh	3.353	2.979	0.374
184	Kamal North 3	"	Sindh	0.007	0.007	-
185	Kato	"	Sindh	0.289	0.289	-
186	Kausar/Usman	"	Sindh	5.728	5.728	-
187	Keyhole G	"	Sindh	0.689	0.689	-
188	Khaskheli	"	Sindh	13.315	12.766	0.549
189	Khaskheli DT	"	Sindh	0.140	0.129	0.011
190	Khaskheli North	"	Sindh	0.008	0.008	-
191	Khorewah	"	Sindh	2.292	2.101	0.191
192	Khorewah Deep	"	Sindh	0.030	0.030	-
193	Koli	"	Sindh	0.534	0.534	-
194	Korai	"	Sindh	0.499	0.317	0.182
195	Kumbh	"	Sindh	0.109	0.099	0.010
196	Laghari	"	Sindh	22.249	21.699	0.550
197	Liari	"	Sindh	7.782	7.782	-
198	Liari Deep	"	Sindh	0.137	0.137	-
199	Limu	"	Sindh	0.018	0.018	-
200	Limu East	"	Sindh	-	-	-
201	Limu North	"	Sindh	0.013	0.013	-
202	Lodano	"	Sindh	0.784	0.256	0.528
203	Lodano Deep	"	Sindh	0.940	0.531	0.409
204	Mahi	"	Sindh	0.023	0.023	-
205	Malah	"	Sindh	0.091	0.023	0.068
206	Matli	"	Sindh	0.617	0.317	0.300
207	Mazari	"	Sindh	25.655	23.945	1.710
208	Mazari South	"	Sindh	21.093	20.153	0.940
209	Mazari South Deep	"	Sindh	8.951	6.453	2.498
210	Meyun Ismail	"	Sindh	0.988	0.982	0.006
211	Meyun Ismail Deep	"	Sindh	0.233	0.220	0.013
212	Missri	"	Sindh	0.840	0.791	0.049
213	Mohano	"	Sindh	0.201	0.127	0.074
214	Mohib	"	Sindh	0.272	0.106	0.166
215	Mohri	"	Sindh	0.041	0.041	-
216	Mor	"	Sindh	0.054	0.054	-
217	Moroja	"	Sindh	0.021	0.021	-
218	Makhdumpur	"	Sindh	0.510	0.510	-
219	Makhdumpur Deep	"	Sindh	0.017	0.014	0.003
220	Makrani	"	Sindh	0.004	0.004	-

Contd/...

Crude Oil 2P Reserves (Contd...)

	FIELD	Operator Company	Province	Original Recoverable Reserves	Cumulative Production	Balance Recoverable Reserves
221	Malkani	UEPL	Sindh			
222	Muban	"	Sindh	1.409	0.930	0.479
223	Mulaki	"	Sindh	0.028	0.028	-
224	Murid	"	Sindh	0.922	0.769	0.153
225	Niamat Basal	"	Sindh	0.578	0.508	0.070
226	Naimat Basal 2X	"	Sindh	0.165	0.107	0.058
227	Naimat West	"	Sindh	8.657	1.734	6.923
228	Nari	"	Sindh	0.086	0.065	0.021
229	Oderolal	"	Sindh	0.143	0.143	-
230	Paniro	"	Sindh	1.459	1.446	0.013
231	Piaro Deep	"	Sindh	0.052	0.052	-
232	Piaro Deep Basal	"	Sindh	0.010	0.006	0.004
233	Pir	"	Sindh	0.065	0.065	-
234	Pir Apan	"	Sindh	0.117	0.117	-
235	Qabul	"	Sindh	0.005	0.005	-
236	Rahim	"	Sindh	2.711	1.750	0.961
237	Rahim North	"	Sindh	0.519	0.519	-
238	Raj	"	Sindh	0.009	0.005	0.004
239	Rajani	"	Sindh	0.460	0.460	-
240	Rajo	"	Sindh	0.181	0.181	-
241	Ramdiani	"	Sindh	0.069	0.005	0.064
242	Rawal	"	Sindh	0.004	0.004	-
243	Rawat	"	Sindh	0.074	0.072	0.002
244	Rind	"	Sindh	1.726	1.726	-
245	Roshnai	"	Sindh	0.089	0.072	0.017
246	Sahu	"	Sindh	0.082	0.082	-
247	Sajan	"	Sindh	0.018	0.018	-
248	Salamat	"	Sindh	0.082	0.082	-
249	Sakhi	"	Sindh	4.741	4.710	0.031
250	Sakhi Deep	"	Sindh	0.118	0.117	0.001
251	Sakhi South Deep	"	Sindh	0.059	0.059	-
252	Saleh	"	Sindh	1.497	0.990	0.507
253	Saman	"	Sindh	0.045	0.007	0.038
254	Shah Dino	"	Sindh	0.500	0.500	-
255	Shekhano	"	Sindh	0.351	0.296	0.055
256	Shekhano Deep	"	Sindh	0.273	0.273	-
257	Bilal/Bilal North/Siraj South	"	Sindh	0.563	0.563	-
258	Sohrab Deep	"	Sindh	0.319	0.306	0.013
259	Sonro	"	Sindh	8.542	8.127	0.415
260	Suhrat	"	Sindh	0.001	0.001	-
261	Sukhi	"	Sindh	0.002	0.002	-
262	Sukhi South	"	Sindh	0.592	0.198	0.394
263	Sumar Deep	"	Sindh	1.078	0.908	0.170
264	Sutiari Deep	"	Sindh	2.659	0.432	2.227
265	Tajedi	"	Sindh	2.889	2.773	0.116
266	Tando Ghulam Ali	"	Sindh	0.310	0.284	0.026
267	Tangri	"	Sindh	12.073	11.792	0.281
268	Tangri Deep	"	Sindh	0.066	0.066	-
269	Tharo	"	Sindh	0.019	0.019	-
270	Tharo West	"	Sindh	0.012	0.012	-
271	Thebo	"	Sindh	0.313	0.283	0.030
272	Turk	"	Sindh	2.292	2.214	0.078
273	Turk Deep	"	Sindh	0.378	0.336	0.042
274	Umar	"	Sindh	0.969	0.967	0.002
275	Umar-2	"	Sindh	0.126	0.122	0.004
276	Zaur West	"	Sindh	0.032	0.032	-

Contd/...

Crude Oil 2P Reserves (Contd...)

FIELD	Operator Company	Province	Original Recoverable Reserves	Cumulative Production	Balance Recoverable Reserves	
277	Zaur	UEPL	Sindh	6.981	6.834	0.147
278	Zaur Deep	"	Sindh	0.364	0.332	0.032
279	Zaur South	"	Sindh	0.795	0.795	-
TOTAL: Million Barrels			1,498.773	930.327	568.446	
Million TOE			201.07	124.81	76.26	
Of which:		BG	1.350		1.350	
		OPPL	10.409	9.810	0.599	
		MPCL	5.738	3.975	1.763	
		MOL	88.580	58.330	30.250	
		OGDC	484.152	355.801	128.351	
		UEP Alpha	5.551	2.700	2.851	
		UEP Beta	0.587	0.414	0.173	
		OPL	73.130	57.630	15.500	
		POL	213.530	169.810	43.720	
		PEL	281.800		281.800	
		PPL	82.380	49.000	33.380	
		UEPL	251.566	222.857	28.709	

(c) Condensate.

Source: DGPC.

* OMV Maurice renamed to UEP Alpha.

* OMV renamed to UEP Beta.

Table: 2.2

CRUDE OIL PRODUCTION BY FIELD

Province/Field	Operator	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Unit: U.S. Barrels								
BALUCHISTAN:								
Uch	OGDCL	10,493	14,709	14,625	12,825	13,855	11,049	1.0%
Sui	PPL	17,490	19,608	20,157	19,912	13,342	12,878	-5.9%
Zarghun South	MPCL		4,468	3,368	2,606	2,195	1,915	
Balochistan Total:		27,983	38,785	38,150	35,343	29,392	25,842	-1.6%
KPK:								
Chanda	OGDCL	965,494	662,565	562,475	445,530	595,618	797,945	-3.7%
Mela	"	1,281,383	744,680	919,822	615,405	449,342	549,708	-15.6%
Nashpa	"	6,297,992	7,567,170	6,983,074	8,010,646	7,068,581	6,596,471	0.9%
Makori	MOL	52,893	25,410	11,492	18,620	14,780	12,912	-24.6%
Makori Deep	"					789,957	515,258	
Makori East	"	3,703,935	5,228,930	5,242,618	5,245,874	4,269,266	3,831,808	0.7%
Mamikhel	"	816,820	422,413	228,736	219,262	230,417	187,746	-25.5%
Manzalai	"	432,906	301,320	215,739	163,991	142,780	118,876	-22.8%
Maramzai	"	1,305,536	1,326,533	1,687,678	1,561,772	1,656,101	1,696,951	5.4%
Mardankhel	"				733,217	1,113,869	1,425,437	
Tolanj	"					9,564	6,820	
Tolanj West	"					3,756	7,328	
KPK Total:		14,856,959	16,279,020	15,851,634	17,014,317	16,344,032	15,747,260	1.2%
PUNJAB:								
Rodho	Dewan Pet.	49,541	39,145	30,867	27,157	20,136	16,826	-19.4%
Dharian	MPCL						4,542	
Ghauri	"	2,145	303,146	251,744	157,443	144,788	69,610	
Halini	"	182,387	404,578	425,148	282,361	226,435	173,195	-1.0%
Halini Deep	"			70,428	398,062	310,080	243,599	
Khost	"	1,531						
Balkassar	POL	149,029	138,840	114,310	154,457	126,005	111,943	-5.6%
Bela	"	1,528	1,096		2,369			
Chakral	"							
Dhulian	"	55,841	54,036	56,132	50,447	45,199	40,923	-6.0%
Domial	"	15,295						
Jhandial	"					223,804	228,481	
Joyamair	"	4,537	5,238	9,375	8,712	9,316	15,077	27.1%
Khaur	"	1,965	1,958	2,324	6,590	2,442	17,947	55.6%
Meyal	"	114,960	114,124	109,270	106,611	101,630	100,297	-2.7%
Minwal	"	32,258	15,163	415	28,697	32,376	34,494	1.3%
Pariwali	"	221,405	178,770	141,492	129,090	112,326	99,423	-14.8%
Pindori	"	101,484	102,177	88,882	73,854	66,838	65,573	-8.4%
Turkwal	"	11,057	9,754	9,071	8,961	8,936	8,252	-5.7%
Baloch	OGDCL	150,108	41,777	44,585	41,696			
Bhal Syedan	"	3,446	26,758	5,079	2,781	4,353	4,970	7.6%
Chak Naurang	"	114,700	84,749	143,559	124,098	123,406	122,804	1.4%
Dakhni (cond.)	"	393,888	276,379	260,585	255,295	228,457	177,000	-14.8%
Dhodak (cond.)	"	24,940	14,948	16,023	12,176	11,177	10,710	-15.6%
Fimkassar	"	44,157	38,555	45,241	63,399	56,925	53,185	3.8%
Kal	"	123,332	59,106	161,332	156,670	140,116	127,108	0.6%
Missa Keswal	"	27,545	16,488	19,721	33,237	21,008	17,017	-9.2%
Rajian	"	598,426	628,310	579,741	945,094	706,878	631,378	1.1%
Sadkal	"	17,186	17,630	14,902	17,339	18,395	15,059	-2.6%
Toot	"	130,952	121,025	112,939	99,655	90,740	83,486	-8.6%
Bhangali	OPL			1,222	1,804	1,704	1,630	
Dhurnal	"	45,520	34,914	138,834	84,884	64,903	34,401	-5.4%
Ratana	"	179,423	167,110	219,125	93,714	79,052	48,073	-23.2%
Adhi	PPL	2,260,047	2,262,802	2,409,329	2,710,864	2,820,612	3,332,261	8.1%
Punjab Total:		5,058,633	5,158,576	5,481,675	6,077,518	5,798,037	5,889,264	3.1%
SINDH:								
Zamzama	OPPL	508,424	305,181	203,233	183,939	112,855	63,887	-34.0%
Kadanwari	ENI	13,280	9,240	8,742	5,368	4,350	8,752	-8.0%
Lundali	"	542						
Bhit & Badhra	"	114,945	122,628	129,233	107,602	95,251	89,877	-4.8%
Aqeeq	MPCL					6,003	5,515	

Contd/...

Crude Oil Production (contd.)

Province/Field	Operator	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Mari	MPCL	24,269	23,398	18,614	16,828	16,361	17,616	-6.2%
Kalabagh	"				7,268	68,795	37,395	
Sujawal	"	23,859	27,362	23,486	18,663	9,061	4,161	-29.5%
Sujjal	"		3,724	40,043	48,326	47,096	45,784	
Bhullan Shan	OGDCL							
Bobbi	OGDCL	463,240	356,690	156,535	138,645	129,955	185,492	-16.7%
Bitrism	OGDCL						31,542	
Buzdar	"							
Chak-2	"	110,963	73,664	169,613	326,133	337,151	249,029	17.5%
Chak-7A	"	50,050	16,462	12,170	15,330	15,620	13,728	-22.8%
Chak-63	"		27,137	355,886	288,988	49,364	353	
Chak-66 NE	"		39,915	2,225	12,912			
Chak-63 SE	"			132,844	167,463	118,001	80,232	
Chandio	"					1,176	424	
Chhutto	"					3,460	82,120	
Daru	"					10,170		
Dars	"				33,199	151,449	118,636	
Dars West	"				45,288	201,348	199,639	
Dars Deep	"				11,678	48,754	53,415	
Gopang	"							
Hakeem Daho	"		62,461	212,415	113,587	139,757	147,393	
Jakhro	"	61,807	72,467	67,579	14,762	7,741	4,400	
Jarwar	"		23,865	76,800	37,215	37,385	29,160	
Kunnar	"	1,509,226	1,207,062	1,188,124	1,480,896	1,173,463	1,154,652	-5.2%
Kunnar West	"				12,315	47,574	48,279	
Kunar Pasakhi Deep	OGDCL	162,897	377,241	329,231	380,280	443,556	500,450	25.2%
Kunar South	"					46,103	65,750	
Lashari Centre	"	173,405	245,195	205,950	182,675	156,745	123,035	-6.6%
Lala Jamali	"				14,679	101,601	196,478	
Missan	"	53,455	51,695	41,410	40,975	35,975	33,200	-9.1%
Moolan	"					20,521	16,498	
Moolan North	"	24,285	28,830	19,785		1,720		-100.0%
Nim	"		18,570	15,225	7,373	5,570	5,735	
Noorai Jagir	"	10,109		56,900	11,700	5,935	1,350	-33.1%
Nur/Bagla	"	43,666	30,013	18,545	11,124	7,932	16,991	-17.2%
Palli	"				150,474	52,355	36,444	
Pali Deep	"		23,660	82,175	9,267		17,425	
Pasakhi	"	1,271,420	1,196,375	1,247,560	1,143,735	916,705	900,920	-6.7%
Pasakhi North	"	284,440	164,875	147,940	174,790	128,640	231,070	-4.1%
Pasakhi North East	"	122,270	106,145	106,700	84,584	66,140	100,255	-3.9%
Pasakhi East	"				11,533	43,358	59,962	
Pasakhi Deep West	"				1,934			
Qadirpur	"	292,425	242,935	208,561	160,718	146,483	113,502	-17.2%
Resham	"				2,280	108,267	13,260	
Soghri	"			27,925	37,200	35,952	30,584	
Sono	"	411,860	293,815	217,460	220,375	255,830	237,290	-10.4%
Shah	"				14,596	45,417	47,849	
Shekhan	"							
Tando Alam	"	235,730	226,475	228,960	192,465	196,400	139,565	-10.0%
Tando Allah Yar	"				73,487	183,077	77,150	
Thora	"	218,295	200,335	133,405	108,000	102,420	96,910	-15.0%
Thora East	OGDC							
Thora Deep	"				23,040	41,816	32,859	
Unar	"				11,643	39,958	39,127	
Latif	OMV/UEP Beta	6,291	17,003	23,806	17,803	9,533	13,534	
Miano	"	10,341	9,221	17,016	15,231	9,382	8,772	-3.2%
Bilal	UEPL			546				
Bilal North	"							
Kamal North	"	105,457	165,704	137,050	90,895	73,331	57,731	-11.4%
Korai	"		141,647	135,475	19,831	18,885	1,126	
Kumbh	"			8,909	4,979	51,017	34,000	
Naimat Basal	"	4,293	7,376	712	183			
Naimat Basal 2X	"		37,433	17,045	12,746	4,385	3,658	
Naimat West	"	111,935	129,085	211,622	315,078	256,238	255,609	18.0%

Contd/...

Crude Oil Production (contd.)

Province/Field	Operator	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Nando	UEPL	9	76					
Rahim	"		251,042	113,266	102,106	61,136	614,288	
Rahim North	"	269,241	13,671	1,693		1,155	1,003	-67.3%
Rahim 2X	"		18,528	85,450	49,885	81,568	24,024	
Umar	"		52,923	61,920	2,652	8,115	917	
Mehar	OMV Maurice/UEP Alpha	452,152	837,662	385,492	291,125	178,500	123,839	-22.8%
Rehmat	"							
Saqib	"	7,376	4,226					
Sofiya	"					213,914	154,390	
Adam	PPL	54,661	58,241	20,635	19,728	18,968	28,049	-12.5%
Adam West	"			9,634	9,258	12,770	10,606	
Kabir	"					16,422	45,400	
Kandhkot	"	5,461	5,738	4,551	3,251	5,484	4,763	-2.7%
Kinza	"		392	620				
Mazarani	"	5,587	5,285	3,748	4,126	4,341	3,582	-8.5%
Shahdad	"			25,385	28,828	36,032	64,090	
Sharf	"				176,646	208,155	238,676	
Akri North	UEPL	33,567	25,862	10,252	6,384	13,011	15,021	-14.9%
Ali	"	5,354	3,944	2,912	977	4,162	35	-63.4%
Ali Zaur	"							
Aassu	"	349,168	1,837,627	672,978	168,314	86,295	49,726	-32.3%
Babarki	"					4,531		
Bachal	"	107,260	16,909	1,226				
Bago	"					537		
Bakhsh Deep	"	18,197	30,532	16,860	174			
Bari	"					395,472	719,012	
Bhanoki	"				6,642			
Baqar Deep	"							
Bhatti/Nakurji	"	186	165		72			
Bijoro	"	138,346	61,800	17,207	9,738	12,572	46,750	-19.5%
Bukhari	"							
Bukhari Deep	"	878	175	15,283	17,569	38,627	24,488	94.6%
Bukhari North	"						3,733	
Buzdar	"							
Buzdar South	"	6,141	2,992			2,970		
Buzdar South Deep	"	191,073	186,796	124,566	84,325	59,850	34,896	-28.8%
Chaman	"				11,860	42		
Dhabi, Dhabi N. & S.	"	108,284	60,610	48,249	34,115	243,196	118,802	1.9%
Dang	"				7,748			
Dhani	"		24,144	755				
Duphri	"	325	4,643	118				
Gagani	"	1,687						
Gharo	"	39,479	55,014	28,876	20,579	11,120	9,894	-24.2%
Ghungro	"	45,984	39,107	30,902	11,090	16,420	12,082	-23.5%
Golarchi	"	57	3		101			
Gormani	"						1,406	
Guni	"						572	
Gulsher	"						252,779	
Hakro	"					29,779	19	
Halipota	"	58,585	47,706	50,680	69,959	133,895	91,733	9.4%
Hayat	"						65,053	
Jan	"		924	19,611	27,615	20,539	19,751	
Jabo	"	142,917	71,732	51,268	45,815	27,510	22,328	-31.0%
Jagir	"	45,434	21,552	11,908	6,816	11,814	5,916	-33.5%
Jalal	"	703						
Jarar Deep	"	127,671	73,068	1,097	50	24		
Jogwani	"	5,016	4,998	3,147				
Jhaberi, Jhaberi South	"	28,343	17,316	220		59		
Junathi South	"							
Kakejani	"							
Kato	"			734	2,794	60		
Keyhole-G	"							
Khaskheli	"	69,041	72,214	61,720	52,874	45,590	42,563	-9.2%
Khaskheli Downthrown	"	18,234	8,557	7,234	5,915	7,154	7,889	-15.4%
Khaskheli North	"	13						
Khorewah & K.Deep	"	30,182	34,257	25,870	14,455	17,264	17,003	-10.8%

Contd/...

Crude Oil Production (contd.)

Province/Field	Operator	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Koli	UEPL	76,468	25,646	2,441				
Laghari	"	35,521	30,459	3,633	1,313	1,659	2,615	-40.7%
Liari	"							
Liari Deep	"	64	294	100				
Limu	"		673	17,210				
Limu North	"			9,717	2,180			
Lodano	"	193,364	41,575	48,751	20,641	6,008	3,937	-54.1%
Lodano Deep	"	223,301	130,756	51,979	32,553	16,820	11,326	-44.9%
Mahi	"			12	182			
Makhdumpur	"	14,898	17,304	16,371	15,288	1,048	1,288	-38.7%
Makrani	"				13,036			
Malah	"	7,918	238					
Mansoor Deep	"		77					
Matli	"	5,113						
Mazari	"	59,158	109,566	84,628	73,767	493,369	383,034	45.3%
Mazari South	"	143,669	116,559	98,733	106,026	104,723	96,132	-7.7%
Mazari South Deep	"	220,791	184,535	188,132	145,244	156,363	154,738	-6.9%
Mewa	"	132						
Mohano	"	26,386	25,442	15,702	13,273	11,305	907	-49.0%
Mohib	"				79,608	5,644		
Mohri	"					41,047	31	
Moroja	"						4,850	
M. Ismail & M. Ismail Deep	"	13,985	13,226	13,433	11,761	12,348	12,186	-2.7%
Missri	"	33,754	20,154	17,891	9,678	6,568	339	-60.2%
Muban	"	97,143	93,908	56,183	42,221	55,083	49,463	-12.6%
Mulaki	"							
Murid	"	79,254	431,187	142,415	59,089	30,849	25,952	-20.0%
Nari	"							
Oderolal	"					135,655		
Piaro Deep	"	4,779	4,107	6,858	2,703	1,525	2,036	-15.7%
Piaro Deep Basal	"			5,479	900			
Paniro	"	79,426	35,640	16,980	16,108	16,434	11,518	-32.0%
Pir Apan	"							
Qabul	"	2,062		10				
Raj	"							
Rajani	"			255	55,260	178,682	199,172	
Rajo	"							
Ramdiani	"						4,657	
Rawal	"						3,769	
Rawat	"				37,069	9,254	6,487	
Rawat North	"					8,742	10,221	
Rind	"	149						
Roshnai	"					20,057	51,529	
Sahu	"			397	64	45	51	
Sajan	"			5,783	663	2,738	6,541	
Sakhi & S. Deep	"	52,103	45,199	22,917	124	5,573	20,837	-16.7%
Saman	"		5,786	737	79			
Salamat	"		259	72	8,303	37,714	52,846	
Saleh	"		310,380	308,533	10,314	189,889	99,890	
Shah Dino	"							
Shekhano	"	53,311	53,987	29,751	24,851	40,062	33,983	-8.6%
Shekhano Deep	"	96,901	32,129	4,004				
Sohrab Deep	"	7,005	136,698	77,525	45,842	12,489	14,645	15.9%
Sutiari Deep	"	12,449	35,266	66,838	86,418	77,901	97,545	50.9%
Sumar Deep	"	181,912	233,564	161,562	33,626	15,210	8,340	-46.0%
Suhrat	"		1,023	288				
Sukhi	"					2,114	88	
Sukhi South	"						198,368	
Sonro	"	819,102	595,630	231,227	108,427	73,635	71,244	-38.6%
Tajedi	"	43,943	21,376	26,585	18,736	7,513		
Tangri	"	43,283	27,711	21,662	11,530	19,005	14,381	-19.8%
Tangri Deep	"	9,588	4,064	4,109	3,187	3,708	3,950	-16.3%
Tando Ghulam Ali	"	10,826	6,523	4,283	650	627	140	-58.1%
Tharo	"		2,518	13,241	3,563	60		
Tharo West	"					12,318		
Thebo	"	66,565	71,282	31,660	18,843	12,115	10,528	-30.8%
Turk & Turk Deep	"	48,367	48,537	32,712	23,761	33,686	34,927	-6.3%
Warar	"						7	
Wasayo	"			18				

Contd/...

Province/Field	Operator	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Zaur	UEPL	88,390	65,079	86,384	79,694	53,567	74,517	-3.4%
Zaur Deep	"	282	-	-	-	-	-	
Zaur South & West	"	-	-	-	-	-	-	
Sindh Total:		11,641,150	13,013,672	10,280,724	9,142,239	10,385,592	10,833,662	-1.4%
Grand Total: Barrels		31,584,725	34,490,053	31,652,183	32,269,416	32,557,052	32,496,028	0.6%
TOE		4,237,285	4,627,053	4,246,335	4,329,141	4,367,729	4,359,542	
Barrels Per Day		86,533	94,493	86,481	88,409	89,197	89,030	
Average growth Rate		13.45%	9.20%	-8.48%	2.23%	0.89%	-0.19%	

Source: DGPC.

Table: 2.2.1

Crude Oil Production by Company

Operator/Company	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
OPPL	1,393	836	555	504	309	175	-34.0%
POL	1,943	1,702	1,452	1,561	1,997	1,979	0.4%
ENI	353	361	377	310	273	270	-5.2%
MOL	17,293	20,013	20,181	21,761	22,549	21,378	4.3%
MPCL	642	2,100	2,275	2,552	2,276	1,653	20.8%
OGDCL	42,969	42,194	41,928	45,488	41,616	40,356	-1.2%
OPL	616	553	981	494	399	230	-17.9%
OMV	46	72	112	91	52	61	6.0%
OMV Maurice	1,259	2,307	1,053	798	1,075	762	-9.5%
UEPL	13,464	17,804	10,668	6,633	10,004	11,871	-2.5%
Dewan Petroleum	136	107	84	74	55	46	-19.4%
PPL	6,420	6,444	6,814	8,144	8,592	10,247	9.8%
Total:	86,533	94,493	86,481	88,409	89,197	89,030	0.6%

Source: DGPC.

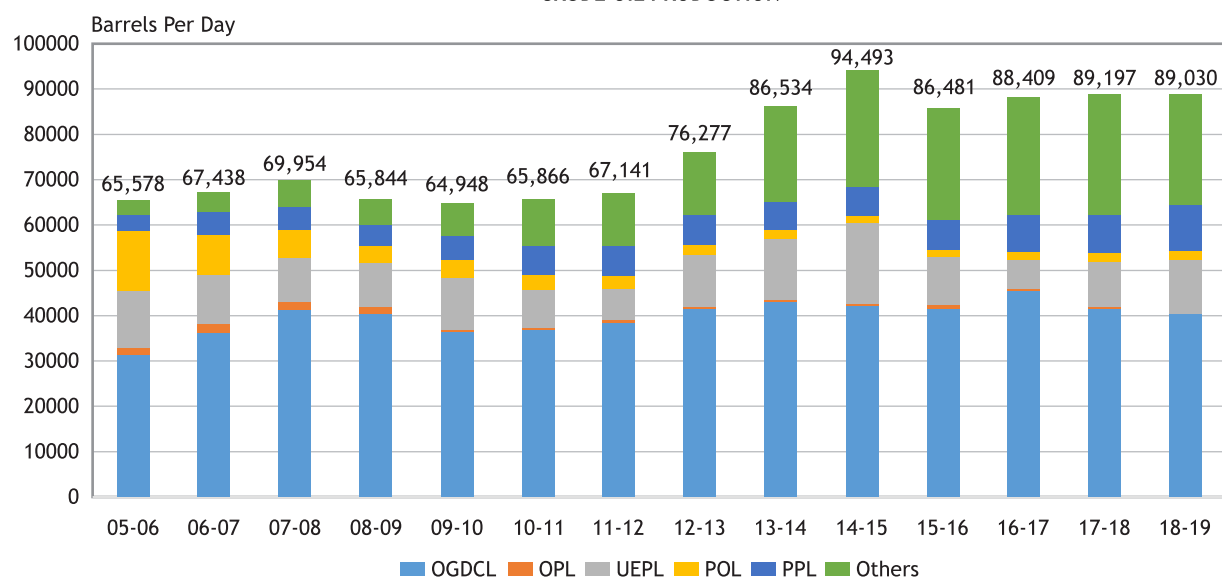
Figure 2.1
CRUDE OIL PRODUCTION

Table: 2.3

REFINING CAPACITIES AS ON 30TH JUNE							
Refinery	Unit: Million Tonnes/Year						ACGR
	2014	2015	2016	2017	2018	2019	
Attock Refinery	1.96	1.96	1.96	2.44	2.44	2.44	-
Byco Petroleum Pakistan *	1.74	1.74	1.74	1.72	7.17	7.17	-
Byco Oil Pakistan	5.45	5.45	5.45	5.45	-	-	-
ENAR-I Pet.Refining Facility	0.11	0.11	0.11	0.11	0.11	0.11	-
ENAR-II Pet.Refining Facility	0.22	0.22	0.22	0.22	0.22	0.22	-
National Refinery	2.71	2.71	2.71	2.83	2.83	2.83	-
Pak-Arab Refinery	4.50	4.50	4.50	4.50	4.50	4.50	-
Pakistan Refinery	2.10	2.23	2.10	2.10	2.10	2.10	-
Total:	18.79	18.92	18.79	19.37	19.37	19.37	0.6%

Source: DG (Oil).

* Merger of Byco Petroleum Pakistan Limited with Byco Oil Pakistan Limited.

Table: 2.4

CRUDE OIL PROCESSED BY REFINERIES							
Refinery	Unit: Tonnes TOE						ACGR
	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	
Attock Refinery	1,956,857 1,956,857	1,977,926 1,977,926	1,692,595 1,692,595	2,217,264 2,217,264	2,269,439 2,269,439	2,251,078 2,251,078	2.8%
Byco Petroleum Pakistan	902,940 927,893	842,795 866,889	1,160,982 1,194,640	1,245,979 1,286,692	2,670,175 2,760,427	2,407,147 2,488,509	21.7%
Byco Oil Pakistan		729,553 753,410	410,105 423,318	782 808			
ENAR Petrotech Refinery	318,539 310,161	263,855 256,916	316,783 308,452	294,547 286,800	316,838 308,505	321,240 312,791	0.2%
National Refinery	2,327,518 2,387,978	2,230,408 2,288,680	2,297,604 2,360,645	2,390,016 2,458,398	2,443,417 2,514,760	2,299,111 2,366,891	-0.2%
Pak-Arab Refinery	4,612,789 4,750,818	4,590,444 4,721,252	4,563,277 4,693,855	4,703,982 4,838,429	4,620,433 4,756,995	3,953,917 4,072,448	-3.0%
Pakistan Refinery	1,639,010 1,683,530	1,506,525 1,548,597	1,691,973 1,738,461	1,643,962 1,689,813	1,693,254 1,741,278	1,562,553 1,607,268	-1.0%
Total:	11,757,653 12,017,238	12,141,506 12,413,670	12,133,319 12,411,966	12,496,532 12,778,205	14,013,556 14,351,404	12,795,046 13,098,985	1.7%
Annual growth rate	9.41%	3.26%	-0.07%	2.99%	12.14%	-8.70%	

Source: DG(Oil), Oil Refineries & OGDCL.

Table: 2.5

OIL REFINERIES PRODUCTION							
							Unit: Tonnes TOE
Energy Products	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Motor Spirit	1,582,504 1,690,747	1,591,894 1,700,780	1,590,286 1,699,062	1,838,692 1,964,459	2,199,196 2,349,621	2,274,711 2,430,301	7.5%
Kerosene	173,723 179,213	173,827 179,320	142,428 146,929	125,107 129,060	114,405 118,020	114,064 117,668	-8.1%
HOBC	13,843 14,718	24,469 26,015	41,080 43,676	14,843 15,781			-100.0%
HSD	4,307,179 4,528,137	4,458,044 4,686,742	4,384,765 4,609,703	4,579,993 4,814,947	5,257,780 5,527,504	4,758,160 5,002,254	2.0%
LDO	54,100 56,361	49,819 51,901	30,624 31,904	24,912 25,953	33,393 34,789	38,892 40,518	-6.4%
FO	2,925,707 2,848,761	2,951,209 2,873,592	2,907,275 2,830,814	3,068,178 2,987,485	3,436,430 3,346,052	3,047,477 2,967,328	0.8%
Aviation Fuels	785,359 813,377	798,710 827,090	836,222 865,780	878,747 909,517	872,215 902,733	787,581 816,585	0.1%
Naphtha	877,656 937,688	1,003,088 1,071,699	914,376 976,919	768,822 821,409	802,535 857,428	591,692 632,164	-7.6%
Refinery Gas		9,958 10,981		35,134 38,744		32,786 36,155	
LPG	205,963 222,831	191,664 207,361	174,413 188,697	178,333 192,938	212,794 230,222	193,488 209,335	-1.2%
Energy Products Total:	10,926,034 11,291,833	11,252,682 11,635,482	11,021,469 11,393,484	11,512,761 11,900,294	12,928,748 13,366,369	11,838,851 12,252,308	1.6%
Annual growth rate	10.20%	2.99%	-2.05%	4.46%	12.30%	2.83%	
Non-Energy Products							
Lube Oil	199,571	184,551	207,806	191,825	177,666	194,719	-0.5%
Solvent Oil	24,341	32,325	34,936	3,953	3,201	2,893	-34.7%
MTT	8,558	9,164	8,900	8,009	8,588	7,131	-3.6%
JBO	2,496	2,386	1,574	2,324	2,534	2,167	-2.8%
Asphalt	159,535	169,506	233,302	223,060	291,282	197,420	4.4%
Process Oil	1,889	1,764	1,139	993	579	504	-23.2%
BTX	226	155	262		129	116	-12.5%
Wax	10,867	9,617	10,739	9,565	9,274	9,879	-1.9%
Sulphur	30,815	25,422	29,753	35,949	38,637	35,483	2.9%
Extract Oil	3,987					3,637	
Bitumen *	17,907	45,452	88,654	74,370	152,555	52,778	24.1%
Non-Energy Products Total:	460,192	480,342	617,065	550,048	684,445	506,727	1.9%
Annual growth rate	-1.1%	4.4%	28.5%	-10.9%	24.4%	-26.0%	
Total Products:	11,386,226	11,733,024	11,638,534	12,062,809	13,613,193	12,345,578	1.6%
Annual growth rate	9.70%	3.05%	-0.81%	3.65%	12.85%	-9.31%	
CRUDE PROCESSED							
Local	3,829,773	3,884,022	3,642,844	3,933,826	3,771,528	3,552,810	-1.5%
Imported	7,927,880	8,257,484	8,490,475	8,562,706	10,242,028	9,242,236	3.1%
Total Crude:	11,757,653	12,141,506	12,133,319	12,496,532	14,013,556	12,795,046	1.7%

Note: See tables 2.5.1 to 2.5.7 for production by each refinery.

* Bitumen Production started in November 2012.

Source: Oil Refineries.

Table 2.5.1
Production by Attock Refinery Ltd.

Energy Products	Unit: Tonnes TOE						ACGR
	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	
Motor Spirit	344,320 367,871	338,880 362,059	230,502 246,268	464,403 496,168	640,565 684,380	602,884 644,121	11.9%
Kerosene	47,646 49,152	47,290 48,784	42,564 43,909	49,043 50,593	48,511 50,044	47,463 48,963	-0.1%
HSD	576,616 606,196	586,693 616,790	464,835 488,681	644,028 677,067	692,132 727,638	680,612 715,527	3.4%
LDO	1,477 1,539	1,214 1,265	3,128 3,259	7,897 8,227	8,756 9,122	10,372 10,806	47.7%
FO	449,016 437,207	429,103 417,818	350,698 341,475	513,613 500,105	422,641 411,526	465,189 452,955	0.7%
Aviation Fuels	173,820 179,915	157,501 163,039	123,106 127,521	163,381 169,083	169,857 175,791	172,011 178,416	-0.2%
Naphtha	236,352 252,518	297,134 317,458	339,247 362,451	241,524 258,044	125,691 134,288	160,512 171,491	-7.4%
LPG	5,647 6,109	2,999 3,245	2,039 2,206	1,992 2,155	1,970 2,131	2,849 3,082	-12.8%
Energy Products Total:	1,834,894 1,900,508	1,860,814 1,930,458	1,556,119 1,615,771	2,085,881 2,161,442	2,110,123 2,194,920	2,141,892 2,225,361	3.1%
Non-Energy Products							
Asphalt	50,979	45,418	57,647	54,577	93,610	49,125	-0.7%
Solvent Oil	2,834	2,358	1,425	2,477	3,201	2,893	0.4%
MTT	8,558	9,164	8,900	8,009	8,588	7,131	-3.6%
JBO	2,496	2,386	1,574	2,324	2,534	2,167	-2.8%
Non-Energy Products Total:	64,867	59,326	69,546	67,387	107,933	61,316	-1.1%
Total Products:	1,899,761	1,920,140	1,625,665	2,153,268	2,218,056	2,203,208	3.0%
Annual growth rate	1.15%	1.07%	-15.34%	32.45%	3.01%	-0.67%	
CRUDE PROCESSED							
Local	1,956,857	1,977,926	1,692,595	2,217,264	2,269,439	2,251,078	2.8%
Imported	-	-	-	-	-	-	
Total Crude:	1,956,857	1,977,926	1,692,595	2,217,264	2,269,439	2,251,078	2.8%

Source: Attock Refinery Ltd.

Table: 2.5.2

Production by BYCO Petroleum Pakistan Ltd.							Unit: Tonnes TOE
Energy Products	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Naphtha	73,152 78,156	57,524 61,459	91,722 97,996	100,359 107,224	230,160 245,903	43,184 46,138	-10.0%
MS	66,180 70,707	99,218 106,005	110,100 117,631	109,819 117,331	233,287 249,244	404,364 432,022	43.6%
Kerosene		5,843 6,028	2,191 2,260	2,516 2,596	5,897 6,083	6,340 6,540	
HSD	414,397 435,656	345,644 363,376	433,207 455,431	492,059 517,302	1,096,119 1,152,350	1,081,001 1,136,456	21.1%
LDO	3,494 3,640	5,229 5,448	5,126 5,340	6,486 6,757	13,549 14,115	20,464 21,319	42.4%
FO	276,211 268,947	270,879 263,755	433,139 421,747	478,113 465,539	952,484 927,434	704,869 686,331	20.6%
LPG	8,129 8,795	10,333 11,179	11,167 12,082	14,439 15,622	40,804 44,146	47,113 50,972	42.1%
Aviation Fuels			5,884 6,200	3,400 3,583	7,983 8,235	8,262 8,523	
Total:	841,563 865,899	794,670 817,248	1,092,536 1,118,687	1,207,191 1,235,951	2,580,283 2,647,510	2,315,597 2,388,302	22.4%
Non-Energy Products							
Solvent Oil	21,507	23,955	26,814	1,476			-100.0%
Non-Energy Products Total:	21,507	23,955	26,814	1,476			-100.0%
Total Products:	863,070	818,625	1,119,350	1,208,667	2,580,283	2,315,597	21.8%
Annual growth rate	15.06%	-5.15%	36.74%	7.98%	113.48%	-10.26%	
CRUDE PROCESSED							
Local	164,673	129,957	165,177	41,463			
Imported	738,267	712,838	995,805	1,204,516	2,670,175	2,407,147	26.7%
Total Crude:	902,940	842,795	1,160,982	1,245,979	2,670,175	2,407,147	21.7%

Source: Byco Petroleum Pakistan Limited.

Table: 2.5.3

Production by BYCO Oil Pakistan Ltd.

Energy Products	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	Unit: Tonnes
							TOE
							ACGR
Naphtha		144,368 154,243	71,037 75,896				
MS		8,313 8,882	6,989 7,467				
HSD		304,486 320,106	147,710 155,288				
LDO		4,003 4,170	2,556 2,663				
FO		233,886 227,735	159,539 155,343				
LPG		8,863 9,589	3,596 3,891				
Total:		703,919 724,725	391,427 400,547				
Non-Energy Products							
Solvent Oil		6,012	6,697				
Non-Energy Products Total:		6,012	6,697				
Total Products:		709,931	398,124				
Annual growth rate							
CRUDE PROCESSED							
Local		23,726	19,194				
Imported		705,827	390,911	782			
Total Crude:		729,553	410,105	782			

Source: Byco Petroleum Pakistan Limited.

Table: 2.5.4

Production by National Refinery Ltd.							
Energy Products	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	Unit: Tonnes
							TOE
Motor Spirit	164,418 175,664	179,206 191,464	152,602 163,040	166,060 177,419	213,200 227,783	228,865 244,519	6.8%
Kerosene		9,607 9,911	9,222 9,513	6,300 6,499	3,220 3,322	2,407 2,483	
HSD	852,436 896,166	785,511 825,808	820,882 862,993	883,430 928,750	892,697 938,492	768,963 808,411	-2.0%
LDO	4,448 4,634	275 286		14 15			-100.0%
FO	514,979 501,435	437,778 426,264	409,471 398,702	466,490 454,221	430,585 419,261	394,911 384,525	-5.2%
Aviation Fuels	138,391 143,357	168,831 174,975	137,844 142,607	134,592 139,281	137,577 142,535	131,649 136,554	-1.0%
Naphtha	248,001 264,964	204,645 218,643	227,177 242,716	230,468 246,232	220,925 236,036	146,093 156,086	-10.0%
LPG	7,416 8,023	8,449 9,141	6,781 7,336	9,320 10,083	7,941 8,591	9,437 10,210	4.9%
Energy Products Total:	1,930,089 1,994,244	1,794,302 1,856,491	1,763,979 1,826,908	1,896,674 1,962,500	1,906,145 1,976,021	1,682,325 1,742,788	-2.7%
Non-Energy Products							
Lube Oil	199,571	184,551	207,806	191,825	177,666	194,719	-0.5%
Asphalt	108,556	124,088	175,655	168,483	197,672	148,295	6.4%
Process Oil	1,889	1,764	1,139	993	579	504	-23.2%
BTX	226	155	262		129	116	-12.5%
Wax	10,867	9,617	10,739	9,565	9,274	9,879	-1.9%
Extract Oil	3,987					3,637	-1.8%
Sulphur					6,994	6,693	
Non-Energy Products Total:	325,096	320,175	395,601	370,866	392,314	363,843	2.3%
Total Products:	2,255,185	2,114,477	2,159,580	2,267,540	2,298,459	2,046,168	-1.9%
Annual growth rate	9.75%	-6.24%	2.13%	5.00%	1.36%	-10.98%	
Crude Processed							
Local	538,762	506,387	432,481	366,876	332,685	293,791	-11.4%
Imported	1,788,756	1,724,021	1,865,123	2,023,140	2,110,732	2,005,320	2.3%
Total Processed	2,327,518	2,230,408	2,297,604	2,390,016	2,443,417	2,299,111	-0.2%

Source: National Refinery Ltd.

Table: 2.5.5

Production by Pak-Arab Refinery Ltd.

Unit: Tonnes

Energy Products	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Motor Spirit	851,512 909,755	843,245 900,923	833,899 890,938	861,537 920,466	886,577 947,219	816,893 872,768	-0.8%
Kerosene	87,509 90,274	86,285 89,012	63,450 65,455	52,565 54,226	35,519 36,641	33,435 34,492	-17.5%
HOBC	13,843 14,718	24,469 26,015	41,080 43,676	14,843 15,781			-100.0%
HSD	1,785,321 1,876,908	1,808,403 1,901,174	1,812,549 1,905,533	1,889,532 1,986,465	1,856,789 1,952,042	1,567,736 1,648,161	-2.6%
LDO	44,681 46,549	39,098 40,732	19,814 20,642	10,515 10,955	11,088 11,551	8,056 8,393	-29.0%
FO	1,135,291 1,105,433	1,068,773 1,040,664	955,261 930,138	1,021,228 994,370	1,019,487 992,674	898,871 875,231	-4.6%
Aviation Fuels	316,091 327,313	344,056 356,529	411,179 425,780	431,321 446,478	434,505 450,014	355,511 368,695	2.4%
LPG	147,661 159,754	139,986 151,451	136,064 147,208	135,169 146,239	142,277 153,929	118,401 128,098	-4.3%
Total Products:	4,381,909 4,530,704	4,354,315 4,506,500	4,273,296 4,429,369	4,416,710 4,574,980	4,386,242 4,544,072	3,798,903 3,935,838	-2.8%
Non-Energy Products							
Sulphur	30,815	25,422	29,753	35,949	31,643	28,790	-1.4%
Bitumen *	17,907	45,452	88,654	74,370	152,555	52,778	24.1%
Non-Energy Products Total:	48,722	70,874	118,407	110,319	184,198	81,568	10.9%
Total Products:	4,430,631	4,425,189	4,391,703	4,527,029	4,570,440	3,880,471	-2.6%
	12.19%	-0.12%	-0.76%	3.08%	0.96%	-15.10%	
Crude Processed							
Local	529,090	720,391	700,037	726,249	580,147	447,084	-3.3%
Imported	4,083,699	3,870,053	3,863,240	3,977,733	4,040,286	3,506,833	-3.0%
Total Processed	4,612,789	4,590,444	4,563,277	4,703,982	4,620,433	3,953,917	-3.0%

Source: Pak-Arab Refinery Ltd.

* Bitumen Production started in November 2012.

Table: 2.5.6

Production by Pakistan Refinery Ltd.							
Energy Products	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	Unit: Tonnes
							TOE
							ACGR
Motor Spirit	156,074	123,032	256,194	236,873	225,567	221,705	7.3%
	166,749	131,447	273,718	253,075	240,996	236,870	
Kerosene	2,441	7,425	14,002	3,894	5,299	12,393	38.4%
	2,518	7,660	14,444	4,017	5,466	12,785	
HSD	620,508	586,014	651,409	621,498	661,663	602,013	-0.6%
	652,340	616,077	684,826	653,381	695,606	632,896	
FO	487,131	453,796	499,268	503,017	524,009	490,404	0.1%
	474,319	441,861	486,137	489,788	510,228	477,506	
Aviation Fuels	142,263	99,315	128,297	118,817	103,439	101,412	-6.5%
	147,531	102,623	132,814	122,996	106,708	105,069	
Naphtha	182,461	186,954	69,904	81,604	94,244	113,663	-9.0%
	194,941	199,742	74,685	87,186	100,690	121,438	
LPG	37,110	21,034	14,766	17,413	19,802	15,688	-15.8%
	40,149	22,757	15,975	18,839	21,424	16,973	
Refinery Gas		9,958		35,134		32,786	
		10,981		38,744		36,155	
Energy Products Total:	1,627,988	1,487,528	1,633,840	1,618,250	1,634,023	1,590,064	-0.5%
	1,678,549	1,533,148	1,682,600	1,668,026	1,681,118	1,639,691	
Total Products:	1,627,988	1,487,528	1,633,840	1,618,250	1,634,023	1,590,064	-0.5%
Annual growth rate	3.91%	-8.63%	9.84%	-0.95%	0.97%	-2.69%	
CRUDE PROCESSED							
Local	321,852	261,780	316,577	287,427	272,419	239,617	-5.7%
Imported	1,317,158	1,244,745	1,375,396	1,356,535	1,420,835	1,322,936	0.1%
Total Crude:	1,639,010	1,506,525	1,691,973	1,643,962	1,693,254	1,562,553	-1.0%

Source: Pakistan Refinery Ltd.

Table: 2.5.7

Production by ENAR Petroleum Refining Facility (EPRF)

Energy Products	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	Unit: Tonnes
							TOE
							ACGR
Naphtha	137,690	112,463	115,289	114,867	131,515	128,240	-1.4%
	147,108	120,155	123,175	122,724	140,511	137,012	
Kerosene	36,127	17,377	10,999	10,789	15,959	12,026	-19.7%
	37,269	17,926	11,347	11,130	16,463	12,406	
HSD	57,901	41,293	54,173	49,446	58,380	57,835	-0.02%
	60,871	43,411	56,952	51,983	61,375	60,802	
FO	63,079	56,994	99,899	85,717	87,224	93,233	8.1%
	61,420	55,495	97,272	83,463	84,930	90,781	
Aviation Fuels	14,794	29,007	29,912	27,236	18,854	18,736	4.8%
	15,261	29,924	30,857	28,097	19,450	19,328	
Total:	309,591	257,134	310,272	288,055	311,932	310,070	0.03%
	321,929	266,912	319,602	297,396	322,729	320,329	
CRUDE PROCESSED							
Local	318,539	263,855	316,783	294,547	316,838	321,240	0.2%
Imported	-	-	-	-	-	-	-
Total Crude:	318,539	263,855	316,783	294,547	316,838	321,240	0.2%

Source: DG(Oil).

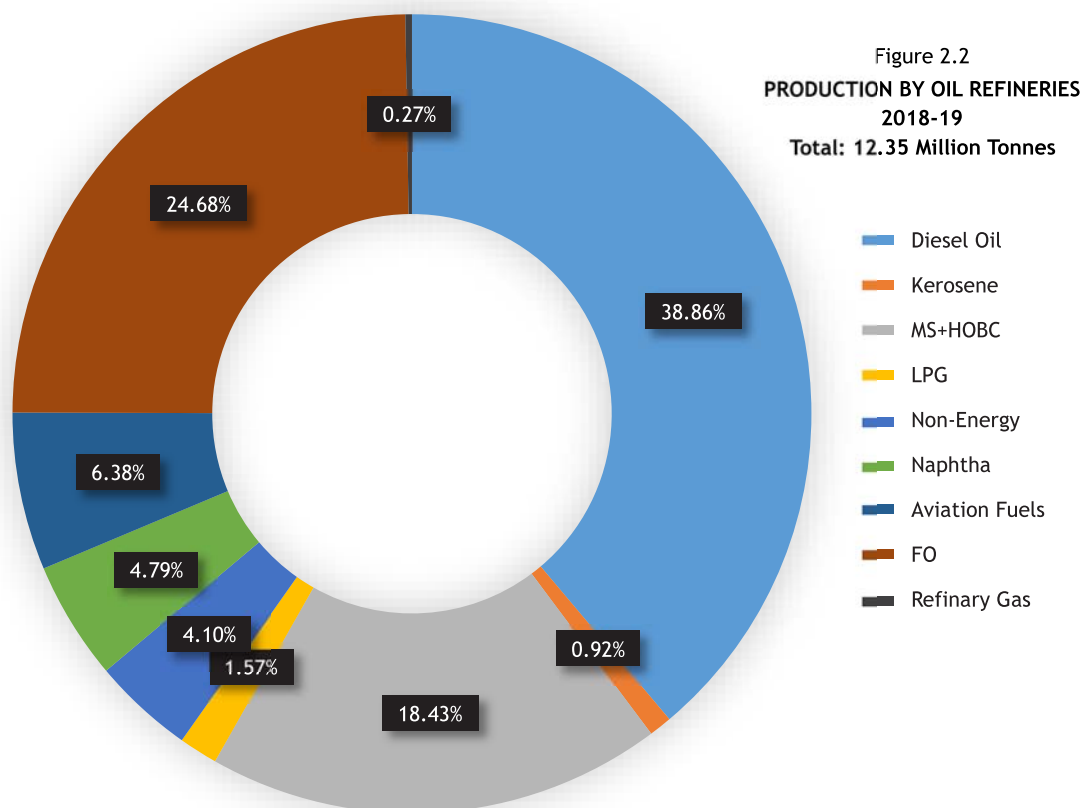


Table: 2.6

PETROLEUM ENERGY PRODUCTS CONSUMPTION BY FUEL							
Energy Products	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	Unit: Tonnes
							TOE
Aviation Fuels	648,802 672,453	574,175 595,425	621,266 643,916	639,545 662,728	632,293 655,576	555,437 577,090	-3.1%
Motor Spirit 87 RON	3,865,113 4,129,487	4,732,381 5,056,076	5,759,763 6,153,731	6,646,965 7,101,617	7,386,362 7,891,589	7,599,364 8,119,160	14.5%
HOBC	12,871 13,684	21,914 23,299	40,587 43,152	90,595 96,321	124,918 132,813	86,621 92,095	46.4%
E-10	2,644 2,720	0 0	0 0	0 0	0 0	0 0	-100.0%
Kerosene	176,357 181,930	174,555 180,071	141,579 146,053	120,958 124,780	114,386 118,001	102,830 106,079	-10.2%
HSD	6,888,980 7,242,385	7,411,475 7,791,684	7,745,864 8,143,227	8,484,280 8,919,524	9,038,298 9,501,963	7,354,409 7,731,690	1.3%
LDO	49,767 51,847	43,096 44,897	24,106 25,114	19,490 20,305	20,986 21,863	25,179 26,231	-12.7%
Furnace Oil	9,464,150 9,215,243	9,202,472 8,960,447	8,953,515 8,718,038	9,560,113 9,308,682	7,360,721 7,167,134	3,493,336 3,401,461	-18.1%
Energy Products-Total:	21,108,684 21,509,748	22,160,068 22,651,899	23,286,680 23,873,230	25,561,946 26,233,957	24,677,964 25,488,939	19,217,176 20,053,809	-1.9%
Annual growth rate	8.85%	4.98%	5.08%	9.77%	-3.46%	-22.13%	
Non-Energy Products							
Non-Energy Products	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Asphalt	190,065	252,912	331,036	305,544	438,037	191,489	0.1%
JBO	2,498	2,322	1,620	2,236	2,495	2,109	-3.3%
MTT	8,413	8,936	8,581	7,913	8,544	7,048	-3.5%
Solvent Oil	7,193	5,637	5,051	4,515	6,341	6,770	-1.2%
Process Oil	1,719	1,615	1,071	935	541	474	-22.7%
Lubes	130,649	118,995	91,947	136,612	145,329	134,916	0.6%
Greases	1,867	2,416	2,508	3,127	3,729	2,251	3.8%
Non-Energy Total:	342,404	392,833	441,814	460,882	605,016	345,057	0.2%
Annual growth rate	15.82%	14.73%	12.47%	4.32%	31.27%	-42.97%	

Source: OCAC.

Table: 2.7

PETROLEUM ENERGY PRODUCTS CONSUMPTION BY SECTOR

Sector	Unit: Tonnes						ACGR
	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	
Domestic	100,679 103,859	89,017 91,829	74,357 76,706	77,169 79,607	66,075 68,162	60,557 62,470	-9.7%
Industrial *	1,297,035 1,305,675	1,300,190 1,309,459	2,023,377 2,013,945	1,990,398 1,992,437	1,784,781 1,785,880	1,299,437 1,307,193	0.0%
Agriculture **	46,655 48,605	37,235 38,791	14,512 15,119	12,671 13,201	14,527 15,134	15,021 15,649	-20.3%
Transport	10,299,718 10,883,469	11,372,924 12,028,165	13,022,573 13,779,086	14,582,925 15,434,433	16,047,392 16,988,579	14,673,564 15,549,796	7.3%
Power	9,006,085 8,791,738	8,995,231 8,800,431	7,765,629 7,583,155	8,531,825 8,328,980	6,377,388 6,223,984	2,759,465 2,688,911	-21.1%
Other Government	358,512 376,403	365,471	386,232 405,220	366,958 385,300	387,801 407,198	409,132 429,790	2.7%
Total:	21,108,684 21,509,748	22,160,068 22,268,676	23,286,680 23,873,230	25,561,946 26,233,957	24,677,964 25,488,939	19,217,176 20,053,809	-1.9%
Annual growth rate	8.85%	4.98%	5.08%	9.77%	-3.46%	-22.13%	

* Include consumption in cement manufacturing industry:

Tonnes	51,942	67,647	167,411	129,925	62,048	56,016	1.5%
TOE	53,246	53,246	166,161	130,234	63,340	57,316	

** HSD consumption for tractors in agriculture sector is not separately available and is included in the transport sector. Agriculture sector represents LDO only.

Source: OCAC.

Table: 2.8

PETROLEUM ENERGY PRODUCTS CONSUMPTION BY REGION

Province	Unit: TOE						ACGR
	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	
Punjab	13,272,086	14,002,943	14,858,810	15,946,286	15,257,440	12,166,560	-1.7%
Sindh	4,801,705	5,250,428	5,203,784	6,407,575	6,579,200	5,509,257	2.8%
KPK	1,112,208	1,070,840	1,310,307	1,481,364	1,651,608	1,554,369	6.9%
Balochistan	1,986,648	1,959,569	2,109,761	1,983,878	1,579,515	397,351	-27.5%
A.J. Kashmir	193,478	211,906	219,869	224,110	223,464	225,495	3.1%
Gilgit-Baltistan	57,582	68,782	81,377	92,694	109,849	116,728	15.2%
FATA	86,041	87,431	89,323	98,050	87,864	84,049	-0.5%
Total:	21,509,748	22,651,899	23,873,230	26,233,957	25,488,939	20,053,809	-1.4%
Annual growth rate	8.74%	5.31%	5.39%	9.89%	-2.84%	-21.32%	

Source: OCAC.

Table: 2.9

PETROLEUM PRODUCTS CONSUMPTION BY SECTOR 2018-19

Energy Products							Unit: Tonnes
	Domestic	Industry	Agriculture	Transport	Power	Other Govt.	TOE Total
Aviation Fuel	-	-	-	350,334 361,405	0 0	205,103 215,686	555,437 577,090
Motor Spirit	-	18,526 19,793	-	7,567,199 8,084,795	0 0	13,639 14,572	7,599,364 8,119,160
HOBC	-	329 350	-	84,622 89,970	- 0	1,670 1,776	86,621 92,095
Kerosene	60,543 62,456	11,540 11,905	0 0	24 25	0 0	30,723 31,694	102,830 106,079
HSD *	- 0	502,130 527,889	0 0	6,671,049 7,013,274	25,948 27,279	155,282 163,248	7,354,409 7,731,690
LDO	-	7,551 7,867	15,021 15,649	0 0	100 104	2,507 2,612	25,179 26,231
Furnace Oil	14 14	759,361 739,390	0 0	336 327	2,733,417 2,661,528	208 203	3,493,336 3,401,461
Energy Products-Total:	60,557 62,470	1,299,437 1,307,193	15,021 15,649	14,673,564 15,549,796	2,759,465 2,688,911	409,132 429,790	19,217,176 20,053,809

Unit: Tonnes

Non-Energy Products	Domestic	Industry	Agriculture	Transport	Power	Other Govt.	Total
Asphalt	0	71,101	-	43,979	-	76,409	191,489
JBO	-	2,109	-	0	0		2,109
MTT	-	6,988	-	0	-	60	7,048
Solvent Oil	-	6,770	-	0	0		6,770
Process Oil	-	474	-	-	-		474
Lubes	2	26,074	0	105,680	722	2,438	134,916
Greases	-	504	-	1,727	14	6	2,251
Non-Energy Total:	2	114,020	0	151,386	736	78,913	345,057

* HSD consumption for tractors in agriculture sector is not separately available and is included in the transport sector. Agriculture sector represents LDO only.

Source: OCAC.

Table: 2.10

SECTORAL CONSUMPTION OF POL PRODUCTS BY REGION/PROVINCE 2018-19

Unit: Tonnes
TOE

Energy Products	Domestic	Industry	Agriculture	Transport	Power	Other Govt.	Total
Punjab	43,671 45,051	799,142 800,559	12,329 12,844	9,258,553 9,818,762	1,249,954 1,218,797	257,285 270,546	11,620,934 12,166,560
Sindh	12,812 13,216	435,641 440,190	55 57	3,479,203 3,679,748	1,331,101 1,296,171	75,838 79,874	5,334,650 5,509,257
KPK	3,500 3,611	52,657 54,007	2,529 2,635	1,356,689 1,437,330	1,010 1,062	53,401 55,725	1,469,786 1,554,369
Balochistan	410 423	10,870 11,300	0 0	190,211 202,147	177,400 172,881	10,116 10,600	389,007 397,351
Azad Kashmir	0 0	1,109 1,118	108 113	211,498 223,970	- -	280 294	212,995 225,495
Gilgit-Baltistan	164 169	0 0	0 0	100,128 105,963	- 0	10,162 10,596	110,454 116,728
FATA	0 0	18 19	0 0	77,282 81,876	- -	2,050 2,154	79,350 84,049
Energy Products-Total:	60,557 62,470	1,299,437 1,307,193	15,021 15,649	14,673,564 15,549,796	2,759,465 2,688,911	409,132 429,790	19,217,176 20,053,809

Unit: Tonnes

Non-Energy Products	Domestic	Industry	Agriculture	Transport	Power	Other Govt.	Total
Punjab	-	66,513	-	108,980	229	42,397	218,119
Sindh	2	35,475	-	29,570	475	7,053	72,575
KPK	-	8,275	-	7,875	32	22,278	38,460
Balochistan	-	1,665	-	3,789	-	1,316	6,770
Azad Kashmir	-	1,847	-	733	-	5,549	8,129
FATA	-	95	-	95	-	-	190
Gilgit-Baltistan	-	150	-	344	-	320	814
Non-Energy Total:	2	114,020	0	151,386	736	78,913	345,057

Source: OCAC.

Table: 2.11

IMPORT OF CRUDE OIL

Refinery	Unit: Qty. in Tonnes Qty. in TOE (Value in Million US\$)						ACGR
	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	
Byco Petroleum Pakistan	760,873 786,591 (631.15)	1,406,555 1,454,097 (781.44)	1,404,399 1,451,868 (480.40)	1,387,838 1,434,747 (667.72)	2,784,240 2,878,347 (1,368.49)	2,109,446 2,180,745 (1,302.20)	22.6%
Pakistan Refinery	1,205,208 1,245,944 (1,003.57)	1,201,701 1,242,318 (666.36)	1,403,804 1,451,253 (460.73)	1,336,423 1,381,594 (477.16)	1,334,855 1,379,973 (639.11)	1,344,967 1,390,427 (716.04)	2.2%
National Refinery	1,848,073 1,910,538 (1,491.32)	1,722,115 1,780,322 (954.28)	1,898,483 1,962,652 (576.47)	1,966,279 2,032,739 (718.65)	2,042,775 2,111,821 (946.97)	2,000,195 2,067,802 (1,056.02)	1.6%
PARCO	4,222,859 4,365,592 (3,446.65)	4,001,868 4,137,131 (2,179.05)	3,969,098 4,103,254 (1,236.12)	3,969,921 4,104,104 (1,035.76)	4,168,726 4,309,629 (1,949.08)	3,511,388 3,630,073 (1,867.58)	-3.6%
Total:	8,037,013 8,308,664 (6,572.68)	8,332,239 8,613,869 (4,581.14)	8,675,784 8,969,025 (2,753.72)	8,660,461 8,953,185 (2,899.29)	10,330,596 10,679,770 (4,903.65)	8,965,996 9,269,047 (4,941.86)	2.2%
Annual growth rate of Qty.	8.58%	3.67%	4.12%	-0.18%	19.28%	-13.21%	

Source: Oil refineries, OCAC, DG(Oil).

Table: 2.12

IMPORT OF PETROLEUM PRODUCTS

Products	Unit: Qty. in Tonnes Qty. in TOE (Value in Million US\$)						ACGR
	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	
100/LL	130,000 135,473 (131.06)	47,000 48,979 (43.86)	110,271 114,914 (52.65)	119,278 124,300 (57.84)	236,538 246,496 (147.41)	222,587 231,958 (150.25)	11.4%
HOBC	- 0	- 0	- 0	135,794 144,376 (77.81)	86,441 91,904 (59.85)	82,397 87,605 (64.18)	
HSD **	2,568,000 2,699,738 (2,343.00)	3,277,000 3,445,110 (2,107.00)	3,064,764 3,221,987 (1,128.37)	3,796,040 3,990,777 (1,749.19)	3,845,272 4,042,534 (2,126.70)	2,537,798 2,667,987 (1,607.86)	-0.2%
High Sulphur Furnace Oil	6,529,000 6,357,287 (4,135.00)	6,701,000 6,524,764 (3,060.00)	5,219,995 5,082,709 (1,145.26)	5,869,157 5,714,798 (1,730.67)	3,791,786 3,692,062 (1,401.42)	552,239 537,715 (252.57)	-39.0%
Low Sulphur Furnace Oil *	- 0	- 0	903,147 879,394 (234.55)	663,889 646,429 (229.20)	455,588 443,606 (183.03)	- 0	
Motor Spirit	2,296,000 2,453,046 (2,292.00)	3,322,000 3,549,225 (2,202.00)	4,251,563 4,542,370 (2,098.00)	4,561,112 4,873,092 (2,339.14)	4,928,112 5,265,195 (3,066.28)	5,411,866 5,782,037 (3,564.94)	18.7%
Total:	11,523,000 11,645,545 (8,901.06)	13,347,000 13,568,077 (7,412.86)	13,549,740 13,841,373 (4,658.83)	15,145,270 15,493,772 (6,183.85)	13,343,737 13,781,798 (6,984.69)	8,806,887 9,307,302 (5,639.80)	-5.2%
Annual growth rate of Qty.	9.86%	15.83%	1.52%	11.78%	-11.90%	-34.00%	

* For convenience of calculations, the conversion factors for HSFO and LSFO has been assumed as same.

** HOBC 97 and HOBC 95

Source: DG(Oil).

Table: 2.13

EXPORT OF CRUDE OIL & PETROLEUM PRODUCTS

Unit: Qty. in Tonnes
Qty. in TOE
(Value in Million US\$)

Products	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Crude/Condensate	25,181 26,032 (20.83)	565,750 584,872 (287.02)	318,362 329,123 (97.88)	189,817 196,233 (75.00)	383,317 396,273 (183.89)	553,907 572,629 (258.38)	85.6%
Energy Products							
Naphtha	856,400 914,978 (787.78)	997,964 1,066,225 (608.59)	794,921 849,294 (291.89)	677,816 724,179 (284.93)	639,388 683,122 (337.07)	418,941 447,597 (215.87)	-13.3%
HSD	1,721 1,809 (2.27)	370 389 (0.38)	13 14 (0.01)	0 0 0.00	0 0 0.00	1,903 2,001 (1.51)	2.0%
JP-1	61,082 63,012 (75.19)	58,193 60,032 (62.86)	82,438 85,043 (53.24)	88,308 91,099 (60.77)	174,336 179,845 (142.39)	134,044 138,280 (120.71)	17.0%
Furnace Oil	0 0 0.00	0 0 0.00	0 0 0.00	0 0 0.00	0 0 0.00	12,652 12,319 (6.34)	
Total Energy Products:	919,203 979,799 (865.24)	1,056,527 1,126,646 (671.83)	877,372 934,350 (345.14)	766,124 815,277 (345.70)	813,724 862,967 (479.46)	567,540 600,196 (344.43)	-9.2%
Lubes	41,038 (40.00)	19,950 (13.25)	13,651 (8.01)	7,458 (3.98)	7,423 (4.04)	1,811 (1.05)	

Source: DG(Oil).

Table: 2.14

BUNKERING OF PETROLEUM PRODUCTS

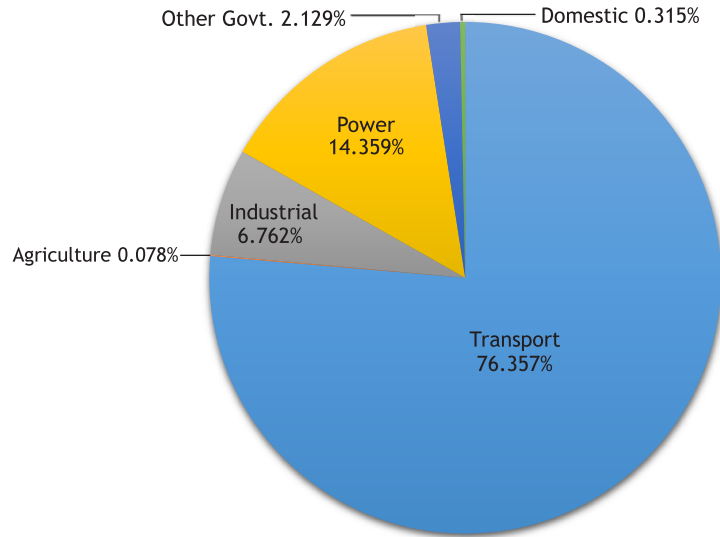
Unit: Qty. in Tonnes
Qty. in TOE
(Value in Million US\$)

Products	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
JP-1	198,705 204,984 (213.73)	196,225 202,426 (170.82)	209,183 215,793 (111.37)	240,240 247,832 (142.56)	271,330 279,904 (190.78)	288,182 297,289 (230.61)	7.7%
HSD	6,994 7,353 (7.76)	5,172 5,437 (4.24)	5,148 5,412 (2.81)	8,636 9,079 (5.56)	5,567 5,853 (3.87)	2,931 3,081 (2.22)	-16.0%
Furnace Oil	88,733 86,399 (56.39)	60,059 58,479 (42.19)	46,348 45,129 (12.88)	39,141 38,112 (14.74)	33,196 32,323 (14.04)	29,981 29,192 (13.93)	-19.5%
Total:	294,432 298,736 (277.88)	261,456 266,342 (217.25)	260,679 266,334 (127.06)	288,017 295,022 (162.86)	310,093 318,080 (208.69)	321,094 329,562 (246.76)	1.7%

Source: DG(Oil).

Figure 2.3
PETROLEUM PRODUCTS CONSUMPTION BY SECTOR
 2018-19

Total: 19.22 Million Tonnes



2013-14

Total: 21.11 Million Tonnes

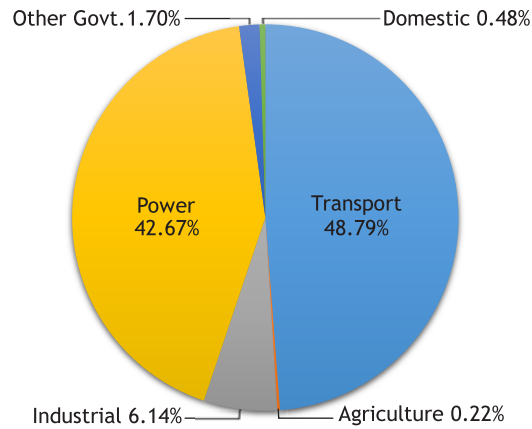


Figure 2.4
IMPORT OF SELECTED PETROLEUM PRODUCTS

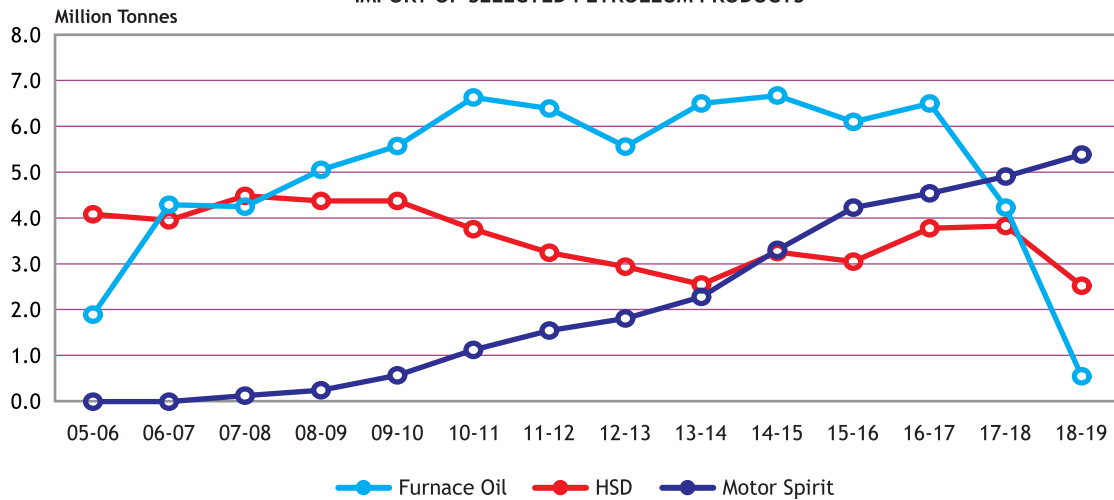


Table: 2.15.1

HOBC SALE PRICE*

Unit: Rupees/Litre

Effective Date	Ex-Refinery Price	Customs/ Exise Duty	Petroleum Develop'nt Levy	OMCs Distribution Margin	Dealer's Commission	Inland Freight Margin	Price Differential Claim	GST	Fixed Sale Price
01.07.2011	75.40		6.13	1.72	2.15	2.93		14.13	102.46
01.08.2011	79.96		6.13	1.72	2.15	2.97		14.13	107.06
26.08.2011	82.02		6.13	1.72	2.15	2.75		15.16	109.93
01.10.2011	84.26		6.13	1.72	2.15	2.85		15.54	112.65
01.11.2011	79.13		6.13	1.72	2.15	2.87		14.72	106.72
01.12.2011	77.91		7.62	1.72	2.15	2.60		14.72	106.72
01.01.2012	82.02		7.62	1.72	2.15	2.96		15.44	111.91
01.02.2012	87.45		7.62	1.72	2.15	2.96		16.30	118.20
01.03.2012	94.85		7.62	1.72	2.15	3.03		17.50	126.87
01.04.2012	100.67		7.62	1.72	2.15	4.92		18.73	135.81
04.04.2012	100.67		7.62	1.72	2.15	4.92		18.73	135.81
01.05.2012	96.87		11.84	1.72	2.15	4.50		18.73	135.81
01.06.2012	85.46		14.00	1.72	2.15	4.49		17.25	125.07
01.07.2012	69.94		14.00	1.72	2.15	4.33		14.74	106.88
16.07.2012	74.84		14.00	1.72	2.15	4.29		15.52	112.52
01.08.2012	80.93		14.00	1.72	2.15	4.79		16.57	120.16
16.08.2012	85.07		9.82	1.72	2.15	4.83		16.57	120.16
23.08.2012	85.07		14.00	1.72	2.15	4.83		17.24	125.01
01.09.2012	92.33		14.00	1.72	2.15	4.62		18.37	133.19
10.09.2012	95.06		14.00	1.72	2.15	4.71		18.82	136.46
17.09.2012	96.30		14.00	1.72	2.15	4.76		19.03	137.96
24.09.2012	91.10		14.00	1.72	2.15	4.74		18.19	131.90
01.10.2012	91.57		14.00	1.72	2.15	4.74		18.27	132.45
08.10.2012	91.94		14.00	1.72	2.15	4.74		18.33	132.88
15.10.2012	92.01		14.00	1.72	2.15	2.89		18.04	130.81
22.10.2012	94.63		14.00	1.72	2.15	2.89		18.46	133.85
22.11.2012	91.51		14.00	1.72	2.15	2.94		17.97	130.29
22.12.2012	92.01		14.00	1.72	2.15	2.89		18.04	130.81
22.01.2013	94.63		14.00	1.72	2.15	2.89		18.46	133.85
01.03.2013	99.98		14.00	1.72	2.15	2.89		19.32	140.06
04.03.2013	99.98		14.00	1.72	2.15	2.89		19.32	140.06
01.04.2013	93.06		14.00	1.72	2.15	2.89		18.21	132.03
01.05.2013	85.79		14.00	1.72	2.15	2.87		17.04	123.57
01.06.2013	86.55		14.00	1.72	2.15	2.83		17.16	124.41
13.06.2013	86.55		14.00	1.72	2.15	2.83		18.23	125.48
21.06.2013	86.55		14.00	1.72	2.15	2.83		17.16	124.41
01.07.2013	87.65		14.00	1.72	2.15	2.83		18.42	126.77
01.08.2013	92.52		14.00	1.72	2.15	2.83		19.25	132.47
01.09.2013	97.47		14.00	1.72	2.15	2.89		20.10	138.33
01.10.2013	102.19		14.00	1.72	2.15	2.93		20.91	143.90
01.11.2013	99.84		14.00	1.72	2.15	3.00		20.52	141.23
01.12.2013	104.30		9.55	1.72	2.15	2.99		20.52	141.23
01.01.2014	107.38		6.47	1.72	2.15	2.99		20.52	141.23
01.02.2014	103.55		10.30	1.72	2.15	2.99		20.52	141.23
01.03.2014	100.97		12.88	1.72	2.15	2.99		20.52	141.23

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HOBC SALE PRICE (Continued)

Effective Date	Ex-Refinery Price	Customs/ Exise Duty	Petroleum Develop'nt Levy	OMCs Distribution Margin	Dealer's Commission	Inland Freight Margin	Price Diff. Claim of OCAC	GST	Fixed Sale Price
01.04.2014	95.87		14.00	1.72	2.15	2.99		19.84	136.57
01.05.2014	94.25		14.00	1.72	2.15	2.95		19.56	134.63
01.06.2014	96.45		11.87	1.72	2.15	2.88		19.56	134.63
01.07.2014	97.42		10.90	1.72	2.15	2.88		19.56	134.63
29.07.2014	97.42		10.90	1.72	2.15	2.88		19.56	134.63
01.08.2014	98.23		10.09	1.72	2.15	2.88		19.56	134.63
01.09.2014	92.93		14.00	1.72	2.15	2.88		19.33	133.01
01.10.2014	91.34		14.00	1.72	2.15	2.87		19.05	131.13
01.11.2014	78.81		14.00	1.72	2.15	2.85		16.92	116.45
01.12.2014	70.20		14.00	1.72	2.15	2.76		15.44	106.27
01.01.2015	55.00		14.00	1.72	2.15	2.65		16.61	92.13
01.02.2015	42.84		14.00	1.72	2.15	2.53		17.07	80.31
01.03.2015	52.85		8.89	1.72	2.15	2.45		12.25	80.31
01.04.2015	54.23		7.51	1.72	2.15	2.45		12.25	80.31
01.05.2015	55.69		6.59	1.72	2.15	2.49		11.67	80.31
01.06.2015	59.61		5.66	1.72	2.15	2.49		12.18	83.81
01.07.2015	57.46		7.76	1.72	2.15	2.54		12.18	83.81
01.08.2015	50.37		13.98	1.72	2.15	2.54		12.03	82.79
01.09.2015	44.08		13.89	1.72	2.15	2.51		15.44	79.79
01.10.2015	46.13		11.88	1.72	2.15	2.47		15.44	79.79
01.11.2015	48.63		13.52	1.72	2.15	2.47		11.30	79.79
01.12.2015	48.88		14.00	1.72	2.15	2.49		11.42	80.66
01.01.2016	45.14		13.81	1.72	2.15	2.49		15.35	80.66
01.02.2016	36.77		14.00	1.72	2.15	2.45		18.57	75.66
01.03.2016	33.87		14.00	1.72	2.15	2.37		18.57	72.68
01.04.2016	38.61		14.00	1.72	2.15	2.30		13.90	72.68
01.05.2016	41.83		14.00	1.72	2.15	2.33		10.65	72.68
01.06.2016	44.01		11.89	1.72	2.15	2.33		10.58	72.68
01.07.2016	45.43		10.49	1.72	2.15	2.33		10.56	72.68
01.08.2016	42.43		13.49	1.72	2.15	2.33		10.56	72.68
01.09.2016	39.74		13.88	1.72	2.15	2.33		12.86	72.68
01.10.2016	42.46		11.91	1.72	2.15	2.33		12.11	72.68

* Inland Freight Margin of HOBC has been deregulated w.e.f 01.10.2012

Above prices of HOBC from 01.07.2012 to 01.06.2014 are only for Sihala Depot.

Ex-depot sale price vary from location to location.

HOBC price has been deregulated since November 2016.

Source: DG(Oil).

Table: 2.15.2

GASOLINE SALE PRICE

Unit: Rupees/Litre

Period	Ex-Refinery Price: PRL/NRL	Customs/ Exise Duty	Fixed Develop'nt Surcharge	Distribution Margin	Dealer's Commission	Inland Freight Margin	Development Surcharge	GST	Fixed Sale Price
01.07.2011	60.47		5.46	1.50	1.87	2.86		11.55	83.71
01.08.2011	62.22		5.46	1.50	1.87	2.05		11.70	84.80
26.08.2011	60.97		6.54	1.66	2.03	1.90		11.70	84.80
01.10.2011	63.52		6.54	1.82	2.20	2.60		12.27	88.95
01.11.2011	58.88		9.52	1.98	2.37	2.60		12.06	87.41
01.12.2011	59.47		9.94	1.98	2.37	2.60		12.12	88.48
01.01.2012	60.27		10.00	1.98	2.37	2.57		12.35	89.54
01.02.2012	64.67		10.00	1.98	2.37	2.80		13.09	94.91
01.03.2012	66.98		10.00	1.98	2.37	2.86		13.47	97.66
01.04.2012	73.58		10.00	1.98	2.37	3.17		14.58	105.68
04.04.2012	73.58		8.00	1.98	2.37	3.17		14.26	103.36
01.05.2012	72.81		8.86	1.98	2.37	3.08		14.26	103.36
01.06.2012	68.96		10.00	1.98	2.37	2.87		13.79	99.97
16.06.2012	59.96		10.00	1.98	2.37	2.85		12.35	89.51
01.07.2012	55.73		10.00	1.98	2.37	2.76		11.65	84.49
16.07.2012	56.97		10.00	1.98	2.37	2.73		11.85	85.90
01.08.2012	63.22		10.00	1.98	2.37	3.09		12.91	93.57
16.08.2012	65.95		7.23	1.98	2.37	3.13		12.91	93.57
23.08.2012	65.95		10.00	1.98	2.37	3.13		13.35	96.78
01.09.2012	72.67		10.00	1.98	2.37	3.11		14.42	104.55
10.09.2012	68.12		10.00	1.98	2.37	3.65		13.78	99.90
17.09.2012	73.95		10.00	1.98	2.37	3.70		14.72	106.72
24.09.2012	75.47		10.00	1.98	2.37	3.67		14.96	108.45
01.10.2012	70.25		10.00	1.98	2.37	3.72		14.13	102.45
08.10.2012	72.87		10.00	1.98	2.37	3.72		14.55	105.49
15.10.2012	71.10		10.00	1.98	2.37	3.69		14.26	103.40
22.10.2012	69.06		10.00	1.98	2.37	3.73		13.94	101.08
22.11.2012	70.83		10.00	1.98	2.37	3.31		14.16	102.65
22.12.2012	69.83		10.00	1.98	2.37	3.25		13.99	101.42
22.01.2013	71.32		10.00	1.98	2.37	3.18		14.22	103.07
01.03.2013	74.22		10.00	1.98	2.37	3.33		14.70	106.60
04.03.2013	74.22		6.95	1.98	2.37	3.33		14.22	103.07
01.04.2013	72.28		7.84	2.23	2.78	3.06		14.11	102.30
01.05.2013	66.04		10.00	2.23	2.78	3.08		13.46	97.59
01.06.2013	67.98		10.00	2.23	2.78	3.02		13.76	99.77
13.06.2013	67.98		10.00	2.23	2.78	3.02		14.62	100.63
21.06.2013	67.98		10.00	2.23	2.78	3.02		13.76	99.77
01.07.2013	69.40		9.43	2.23	2.78	3.14		14.79	101.77
01.08.2013	71.74		9.43	2.23	2.78	3.14		15.18	104.50
01.09.2013	75.52		9.43	2.23	2.78	3.31		15.86	109.13
01.10.2013	80.05		8.29	2.23	2.78	3.44		16.45	113.24
01.11.2013	77.82		10.00	2.23	2.78	3.55		16.38	112.76
01.12.2013	78.26		9.28	2.23	2.78	3.83		16.38	112.76
01.01.2014	80.83		6.80	2.23	2.78	3.74		16.38	112.76
01.02.2014	78.31		9.40	2.23	2.78	3.66		16.38	112.76
01.03.2014	75.43		10.00	2.23	2.78	3.60		15.99	110.03
01.04.2014	74.02		10.00	2.23	2.78	3.54		15.74	108.31
01.05.2014	73.68		10.00	2.23	2.78	3.59		15.69	107.97

Contd/...

GASOLINE SALE PRICE (Continued)

Unit: Rupees/Litre

Period	Ex-Refinery Price: PRL/NRL	Customs/ Exise Duty	Fixed Develop'nt Surcharge	Distribution Margin	Dealer's Commission	Inland Freight Margin	Development Surcharge	GST	Fixed Sale Price
01.06.2014	74.89		8.88	2.23	2.78	3.50		15.69	107.97
01.07.2014	74.54		9.28	2.23	2.78	3.45		15.69	107.97
29.07.2014	74.54		9.28	2.23	2.78	3.45		15.69	107.97
01.08.2014	75.69		8.13	2.23	2.78	3.45		15.69	107.97
01.09.2014	72.55		10.00	2.23	2.78	3.52		15.48	106.56
01.10.2014	70.04		10.00	2.23	2.78	3.51		15.06	103.62
01.11.2014	61.60		10.00	2.35	3.08	3.47		13.69	94.19
01.12.2014	53.46		10.00	2.35	3.08	3.36		12.28	84.53
01.01.2015	45.50		10.00	2.35	3.08	3.23		14.12	78.28
01.02.2015	36.81		10.00	2.35	3.08	3.11		14.94	70.29
01.03.2015	41.03		9.82	2.35	3.08	3.29		10.72	70.29
01.04.2015	44.32		10.00	2.35	3.08	3.21		11.33	74.29
01.05.2015	43.40		9.80	2.35	3.08	3.28		12.38	74.29
01.06.2015	48.36		8.30	2.35	3.08	3.28		12.42	77.79
01.07.2015	50.11		7.54	2.35	3.08	3.41		11.30	77.79
01.08.2015	44.45	0.90	9.78	2.35	3.08	3.41		12.79	76.76
01.09.2015	39.21	0.80	9.92	2.35	3.08	3.41		14.99	73.76
01.10.2015	39.05	0.79	9.89	2.35	3.08	3.38		15.22	73.76
01.11.2015	43.03	0.88	9.78	2.35	3.08	3.39		13.75	76.26
01.12.2015	41.95	0.85	9.85	2.35	3.08	3.42		14.76	76.26
01.01.2016	43.03	1.31	9.77	2.35	3.08	3.48		13.23	76.25
01.02.2016	36.47	1.11	10.00	2.35	3.08	3.76		14.48	71.25
01.03.2016	28.64	0.87	10.00	2.35	3.08	3.35		14.48	62.77
01.04.2016	31.76	0.97	10.00	2.35	3.08	3.22		12.89	64.27
01.05.2016	34.76	1.06	10.00	2.35	3.08	3.13	9.89		64.27
01.06.2016	35.67	1.09	9.68	2.35	3.08	3.04	9.36		64.27
01.07.2016	36.84	1.12	8.09	2.41	3.16	3.31	9.34		64.27
01.08.2016	36.55	1.49	8.19	2.41	3.16	3.13	9.34		64.27
01.09.2016	33.60	1.37	9.89	2.41	3.16	3.13	10.71		64.27
01.10.2016	33.58	1.37	9.92	2.41	3.16	3.12	10.71		64.27
01.11.2016	35.35	1.44	9.70	2.41	3.16	3.11	9.10		64.27
01.12.2016	38.43	1.56	9.27	2.41	3.16	3.05	8.39		66.27
01.01.2017	37.94	1.54	9.73	2.41	3.16	3.10	9.39		67.27
16.01.2017	37.94	1.54	10.00	2.41	3.16	3.10	9.89		68.04
01.02.2017	41.46	1.69	8.37	2.41	3.16	2.99	10.21		70.29
16.02.2017	41.46	1.69	9.22	2.41	3.16	2.99	10.36		71.29
01.03.2017	43.14	1.76	9.74	2.41	3.16	2.99	9.80		73.00
01.04.2017	43.89	1.79	9.73	2.41	3.16	3.09	9.93		74.00
01.05.2017	41.84	1.70	9.45	2.41	3.16	3.11	12.33		74.00
01.06.2017	40.78	1.66	9.75	2.41	3.16	3.16	11.88		72.80
01.07.2017	39.06	1.59	9.79	2.41	3.16	3.16	12.13		71.30
01.08.2018	37.58	1.53	9.93	2.41	3.16	3.12	13.57		71.30
06.08.2017	37.58	1.53	9.88	2.41	3.16	3.12	11.82		69.50
01.09.2017	41.09	1.67	9.70	2.41	3.16	3.08	10.39		71.50
01.10.2017	42.70	1.74	9.70	2.41	3.16	3.11	10.68		73.50
01.11.2017	44.12	1.79	10.00	2.55	3.35	3.14	11.04		75.99
01.12.2017	45.01	1.83	10.00	2.55	3.35	3.47	11.26		77.47
01.01.2018	47.96	1.95	10.00	2.55	3.35	3.87	11.85		81.53
01.02.2018	50.27	2.05	10.00	2.55	3.35	4.01	12.28		84.51
01.03.2018	53.42	2.17	10.00	2.55	3.35	3.78	12.80		88.07
01.04.2018	49.11	2.00	10.00	2.55	3.35	3.77	15.22		86.00

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GASOLINE SALE PRICE (Continued)

Unit: Rupees/Litre

Period	Ex-Refinery Price: PRL/NRL	Customs/ Exise Duty	Fixed Develop'nt Surcharge	Distribution Margin	Dealer's Commission	Inland Freight Margin	Development Surcharge	GST	Fixed Sale Price
01.05.2018	54.40	2.21	10.00	2.55	3.35	3.75		11.44	87.70
01.06.2018	59.79	2.59	9.85	2.55	3.35	3.83		5.74	87.70
12.06.2018	59.79	2.59	10.00	2.55	3.35	3.83		9.85	91.96
01.07.2018	61.87	3.15	10.00	2.64	3.47	3.91		14.46	99.50
08.07.2018	61.87	3.15	10.00	2.64	3.47	3.91		10.20	95.24
01.08.2018	64.61	3.30	9.68	2.64	3.47	3.28		8.26	95.24
01.09.2018	62.50	3.19	9.68	2.64	3.47	3.30		8.05	92.83
01.10.2018	66.12	3.34	9.99	2.64	3.47	3.27		4.00	92.83
01.11.2018	74.32	3.78	6.15	2.64	3.47	3.26		4.21	97.83
01.12.2018	66.16	3.37	9.81	2.64	3.47	3.28		7.10	95.83
01.01.2019	52.04	2.65	14.00	2.64	3.47	2.95		13.22	90.97
01.02.2019	51.22	2.60	14.00	2.64	3.47	3.32		13.13	90.38
01.03.2019	54.40	2.77	12.12	2.64	3.47	3.99		13.50	92.89
01.04.2019	62.55	3.18	8.95	2.64	3.47	3.73		14.37	98.89
01.05.2019	69.85	3.55	14.15	2.64	3.47	3.29		1.94	98.89
05.05.2019	69.85	3.55	14.00	2.64	3.47	3.29		11.62	108.42
01.06.2019	72.85	3.71	13.76	2.64	3.47	3.29		12.96	112.68

Source: DG(Oil)

Table: 2.15.3

KEROSENE SALE PRICE

Unit: Rupees/Litre

Period	Ex-Refinery Price: NRL/PRL	Customs/ Exise Duty	Fixed Develop'nt Surcharge	Distribution Margin	Dealer's Commission	Inland Freight Margin	Development Surcharge	GST	Fixed Sale Price
01.07.2011	68.49		1.59	1.58		1.31		11.68	84.65
01.08.2011	69.71		1.59	1.58		1.79		11.95	86.62
26.08.2011	67.81		3.83	1.58		1.45		11.95	86.62
01.10.2011	67.96		3.83	1.58		1.30		11.95	86.62
01.11.2011	67.18		3.83	1.58		1.34		11.83	85.76
01.12.2011	70.35		3.83	1.58		1.17		12.31	89.24
01.01.2012	69.38		4.82	1.58		1.15		12.31	89.24
01.02.2012	71.66		4.82	1.58		1.27		12.69	92.02
01.03.2012	74.79		4.82	1.58		1.91		13.30	96.40
01.04.2012	78.01		4.82	1.58		3.25		14.03	101.69
04.04.2012	78.01		3.32	1.58		3.25		13.79	99.95
01.05.2012	76.36		5.15	1.58		3.07		13.79	99.95
01.06.2012	71.86		6.00	1.58		1.64		12.97	94.05
01.07.2012	65.20		6.00	1.58		1.57		11.90	86.25
16.07.2012	66.90		6.00	1.58		1.55		12.16	88.19
01.08.2012	70.73		6.00	1.58		1.72		12.80	92.83
16.08.2012	73.73		2.97	1.58		1.75		12.80	92.83
23.08.2012	73.73		6.00	1.58		1.75		13.29	96.35
01.09.2012	78.92		6.00	1.58		1.61		14.10	102.21
10.09.2012	80.48		6.00	1.58		1.65		14.35	104.06
17.09.2012	80.98		6.00	1.58		1.68		14.44	104.68
24.09.2012	78.36		6.00	1.58		1.67		14.02	101.63
01.10.2012	77.68		6.00	1.58		2.01		13.96	101.23
08.10.2012	78.30		6.00	1.58		2.01		14.06	101.95

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KEROSENE SALE PRICE (continued)

Unit: Rupees/Litre

Period	Ex-Refinery Price: NRL/PRL	Customs/ Exise Duty	Fixed Develop'nt Surcharge	Distribution Margin	Dealer's Commission	Inland Freight Margin	Development Surcharge	GST	Fixed Sale Price
15.10.2012	79.97		6.00	1.58		1.99		14.33	103.87
22.10.2012	79.43		6.00	1.58		2.01		14.24	103.26
22.11.2012	75.78		6.00	1.58		2.01		13.66	99.03
22.12.2012	75.62		6.00	1.58		1.98		13.63	98.81
22.01.2013	76.55		6.00	1.58		1.99		13.78	99.90
01.03.2013	80.35		6.00	1.58		1.46		14.30	103.69
04.03.2013	80.35		2.73	1.58		1.46		13.78	99.90
01.04.2013	76.14		5.36	1.58		1.63		13.55	98.26
01.05.2013	71.65		6.00	1.58		1.95		12.99	94.17
01.06.2013	71.34		6.00	1.58		1.93		12.94	93.79
13.06.2013	71.34		6.00	1.58		1.93		13.74	94.59
21.06.2013	71.34		6.00	1.58		1.93		12.94	93.79
01.07.2013	72.28		6.00	1.58		2.44		13.99	96.29
01.08.2013	76.54		6.00	1.58		2.44		14.72	101.28
01.09.2013	80.30		6.00	1.58		2.71		15.40	105.99
01.10.2013	82.11		6.00	1.58		2.73		15.71	108.13
01.11.2013	82.05		5.40	1.58		3.28		15.69	108.00
01.12.2013	82.98		4.39	1.58		3.36		15.69	108.00
01.01.2014	85.31		3.21	1.58		2.21		15.69	108.00
01.02.2014	81.13		6.00	1.58		2.54		15.51	106.76
01.03.2014	81.33		5.58	1.58		2.76		15.51	106.76
01.04.2014	75.97		6.00	1.58		2.90		14.70	101.15
01.05.2014	73.88		6.00	1.58		2.36		14.25	98.07
01.06.2014	74.19		6.00	1.58		1.48		14.15	97.40
01.07.2014	74.41		5.75	1.58		1.51		14.15	97.40
29.07.2014	73.86		6.00	1.58		2.36		14.25	98.05
01.08.2014	73.86		6.00	1.58		2.36		14.25	98.05
01.09.2014	73.09		6.00	1.58		2.23		14.09	96.99
01.10.2014	72.36		6.00	1.58		1.84		13.90	95.68
01.11.2014	65.82		6.00	1.58		1.40		12.72	87.52
01.12.2014	62.15		6.00	1.58		1.36		12.09	83.18
01.01.2015	50.22		6.00	1.58		1.15		12.97	71.92
01.02.2015	40.14		6.00	1.58		0.66		13.06	61.44
01.03.2015	45.51		3.93	1.58		1.05		9.37	61.44
01.04.2015	44.76		4.68	1.58		1.05		9.37	61.44
01.05.2015	45.36		4.65	1.58		0.92		8.93	61.44
01.06.2015	49.59		3.41	1.58		0.92		9.44	64.94
01.07.2015	47.41		5.42	1.58		1.09		9.44	64.94
01.08.2015	41.87		6.00	1.58		0.64		10.02	60.11
01.09.2015	36.16		5.92	1.58		0.27		13.18	57.11
01.10.2015	38.43		3.70	1.58		0.22		13.18	57.11
01.11.2015	39.12		5.89	1.58		0.22		10.30	57.11
01.12.2015	38.38		6.00	1.58		0.20		10.16	56.32
01.01.2016	31.75		6.00	1.58		0.22		8.70	48.25
01.02.2016	25.05		6.00	1.58		0.22		10.40	43.25
01.03.2016	26.80		4.34	1.58		0.13		10.40	43.25
01.04.2016	30.78		6.00	1.58		0.13		4.76	43.25
01.05.2016	31.94		6.00	1.58		0.13		3.60	43.25
01.06.2016	35.96		0.05	1.58		0.08		5.58	43.25
01.07.2016	38.30		0.13	1.58		0.41		2.83	43.25

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KEROSENE SALE PRICE (continued)

Unit: Rupees/Litre

Period	Ex-Refinery Price: NRL/PRL	Customs/ Exise Duty	Fixed Develop'nt Surcharge	Distribution Margin	Dealer's Commission	Inland Freight Margin	Development Surcharge	GST	Fixed Sale Price
01.08.2016	36.13		3.09	1.58		0.39		2.06	43.25
01.09.2016	34.33		4.90	1.58		0.38		2.06	43.25
01.10.2016	35.76		3.42	1.58		0.43		2.06	43.25
01.11.2016	39.60		0.78	1.58		0.44		0.85	43.25
01.12.2016	37.15		3.24	1.58		0.43		0.85	43.25
01.01.2017	41.19		0.05	1.58		0.43		0.00	43.25
16.01.2017	41.19		0.05	1.58		0.43		0.00	43.25
01.02.2017	42.63		0.00	1.58		1.04	(2.00)	0.00	43.25
16.02.2017	42.63		0.00	1.58		1.04	(2.00)	0.00	43.25
01.03.2017	43.24		0.00	1.58		1.15	(1.97)	0.00	44.00
01.04.2017	40.70		0.63	1.58		1.09		0.00	44.00
01.05.2017	41.94		0.00	1.58		1.07	(0.59)	0.00	44.00
01.06.2017	39.86		0.82	1.58		1.74		0.00	44.00
01.07.2017	37.65		3.03	1.58		1.74		0.00	44.00
01.08.2018	39.00		1.28	1.58		2.14		0.00	44.00
06.08.2017	39.00		1.28	1.58		2.14		0.00	44.00
01.09.2017	41.38		(1.10)	1.58		2.14		0.00	44.00
01.10.2017	44.37		(0.12)	1.58		2.17		0.00	48.00
01.11.2017	44.92		4.50	1.58		2.19		0.00	53.19
01.12.2017	48.61		5.00	1.58		2.39		0.00	57.58
01.01.2018	50.78		5.86	1.58		2.46		3.64	64.32
01.02.2018	56.04		5.80	1.58		2.24		4.60	70.26
01.03.2018	55.55		6.00	1.58		2.22		11.11	76.46
01.04.2018	55.73		5.89	1.58		2.15		11.11	76.46
01.05.2018	61.56		6.00	1.58		2.17		8.56	79.87
01.06.2018	65.17		5.35	1.58		2.55		5.23	79.88
12.06.2018	65.17		6.00	1.58		2.55		9.04	84.34
01.07.2018	64.77		6.00	1.58		2.61		12.74	87.70
08.07.2018	64.77		6.00	1.58		2.61		9.00	83.96
01.08.2018	69.39		5.81	1.58		2.43		4.75	83.96
01.09.2018	68.96		5.81	1.58		2.42		4.73	83.50
01.10.2018	72.28		5.85	1.58		2.56		1.23	83.50
01.11.2018	78.68		2.43	1.58		2.53		1.28	86.50
01.12.2018	71.90		5.80	1.58		2.58		1.64	83.50
01.01.2019	61.31		6.00	1.58		2.03		12.06	82.98
01.02.2019	61.21		7.00	1.58		0.56		11.96	82.31
01.03.2019	67.07		2.53	1.58		2.59		12.54	86.31
01.04.2019	69.65		2.88	1.58		2.22		12.98	89.31
01.05.2019	72.90		5.98	1.58		2.23		6.62	89.31
05.05.2019	72.90		6.00	1.58		2.23		14.06	96.77
01.06.2019	74.34		6.00	1.58		2.23		14.31	98.46

Source: DG(Oil).

Table: 2.15.4

HIGH SPEED DIESEL OIL SALE PRICE

Unit: Rupees/Litre

Period	Ex-Refinery Price: NRL/PRL	Customs/ Exise Duty	Petroleum Develop'nt Levy	Distribution Margin	Dealer's Commission	Inland Freight Margin	Development Surcharge	GST	Fixed Sale Price with GST
01.07.2011	73.11		2.15	1.35	1.50	1.29		12.71	92.11
01.08.2011	72.76		2.52	1.35	1.50	1.27		12.71	92.11
26.08.2011	72.97		2.52	1.48	1.73	1.16		12.78	92.64
01.10.2011	72.09		4.29	1.62	1.96	1.20		12.99	94.15
01.11.2011	71.56		4.44	1.76	2.20	1.20		12.99	94.15
01.12.2011	74.87		5.09	1.76	2.20	1.27		13.63	98.82
01.01.2012	74.60		5.18	1.76	2.20	1.45		13.63	98.82
01.02.2012	77.25		6.50	1.76	2.20	1.48		14.27	103.46
01.03.2012	79.54		4.07	1.76	2.20	1.62		14.27	103.46
01.04.2012	77.06	5.89	4.07	1.76	2.20	2.26		14.92	108.16
04.04.2012	77.06	5.89	3.07	1.76	2.20	2.26		14.76	107.00
01.05.2012	76.28	5.83	4.20	1.76	2.20	1.97		14.76	107.00
01.06.2012	71.93	5.50	8.00	1.76	2.20	1.79		14.59	105.77
01.07.2012	65.11	4.98	8.00	1.76	2.20	1.75		13.41	97.21
16.07.2012	65.05	4.97	8.00	1.76	2.20	1.82		13.41	97.21
01.08.2012	68.84	5.30	8.00	1.76	2.20	1.65		14.04	101.79
16.08.2012	72.41	5.50	4.21	1.76	2.20	1.67		14.04	101.79
23.08.2012	72.41	5.50	8.00	1.76	2.20	1.67		14.65	106.19
01.09.2012	77.14	5.89	8.00	1.76	2.20	1.67		15.47	112.13
10.09.2012	79.91	6.04	8.00	1.76	2.20	1.68		15.93	115.52
17.09.2012	78.44	5.99	8.00	1.76	2.20	1.69		15.69	113.77
24.09.2012	78.06	5.96	8.00	1.76	2.20	1.69		15.63	113.30
01.10.2012	77.83	5.95	8.00	1.76	2.20	1.81		15.61	113.16
08.10.2012	75.67	5.78	8.00	1.76	2.20	1.81		15.24	110.46
15.10.2012	78.21	5.98	8.00	1.76	2.20	1.80		15.67	113.62
22.10.2012	77.93	5.96	8.00	1.76	2.20	1.81		15.63	113.29
22.11.2012	75.12	5.74	8.00	1.76	2.20	1.81		15.14	109.77
22.12.2012	75.42	5.76	8.00	1.76	2.20	1.80		15.19	110.13
22.01.2013	74.70	5.71	8.00	1.76	2.20	1.78		15.06	109.21
01.03.2013	78.34	5.99	8.00	1.76	2.20	1.61		15.66	113.56
04.03.2013	78.34	5.99	4.25	1.76	2.20	1.61		15.06	109.21
01.04.2013	76.99	5.89	4.96	1.86	2.30	1.61		14.98	108.59
01.05.2013	72.12	5.51	8.00	1.86	2.30	1.64		14.63	106.06
01.06.2013	70.94	5.43	8.00	1.86	2.30	1.64		14.43	104.60
13.06.2013	70.94	5.43	8.00	1.86	2.30	1.64		15.33	105.50
21.06.2013	70.94	5.43	8.00	1.86	2.30	1.64		14.43	104.60
01.07.2013	72.92	5.57	6.72	1.86	2.30	1.88		15.51	106.76
01.08.2013	76.48	5.85	5.44	1.86	2.30	1.88		15.95	109.76
01.09.2013	79.22	6.05	4.53	1.86	2.30	1.99		16.31	112.26
01.10.2013	81.32	6.22	6.29	1.86	2.30	1.97		16.99	116.95
01.11.2013	81.40	6.22	5.97	1.86	2.30	2.04		16.96	116.75
01.12.2013	82.36	6.30	4.83	1.86	2.30	2.14		16.96	116.75
01.01.2014	84.43	6.46	2.59	1.86	2.30	2.15		16.96	116.75
01.02.2014	80.79	6.18	7.10	1.86	2.30	1.56		16.96	116.75
01.03.2014	80.86	6.18	7.08	1.86	2.30	1.51		16.96	116.75
01.04.2014	77.53	5.93	8.00	1.86	2.30	1.69		16.54	113.85
01.05.2014	73.93	5.66	8.00	1.86	2.30	1.70		15.89	109.34

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HIGH SPEED DIESEL OIL SALE PRICE (Continued)

Unit: Rupees/Litre

Period	Ex-Refinery Price: NRL/PRL	Customs/ Exise Duty	Petroleum Develop'nt Levy	Distribution Margin	Dealer's Commission	Inland Freight Margin	Development Surcharge	GST	Fixed Sale Price with GST
01.06.2014	75.30	5.76	6.45	1.86	2.30	1.78		15.89	109.34
01.07.2014	74.13	5.67	7.77	1.86	2.30	1.72		15.89	109.34
29.07.2014	74.13	5.67	7.77	1.86	2.30	1.72		15.89	109.34
01.08.2014	74.13	5.67	7.77	1.86	2.30	1.72		15.89	109.34
01.09.2014	73.13	5.59	8.00	1.86	2.30	1.72		15.74	108.34
01.10.2014	72.36	5.54	8.00	1.86	2.30	1.73		15.60	107.39
01.11.2014	66.67	5.10	8.00	2.35	2.60	1.78		14.71	101.21
01.12.2014	61.04	4.67	8.00	2.35	2.60	1.76		13.67	94.09
01.01.2015	52.00	3.98	8.00	2.35	2.60	1.75		15.55	86.23
01.02.2015	45.36	3.47	8.00	2.35	2.60	1.69		17.14	80.61
01.03.2015	41.47	3.17	7.69	2.35	2.60	1.56		21.77	80.61
01.04.2015	45.55	3.48	7.94	2.35	2.60	1.42		20.27	83.61
01.05.2015	44.73	3.42	7.86	2.35	2.60	1.44		21.21	83.61
01.06.2015	50.28	3.75	7.76	2.35	2.60	1.32		19.06	87.12
01.07.2015	49.60	3.70	7.94	2.35	2.60	1.34		19.58	87.11
01.08.2015	44.46	4.53	7.03	2.35	2.60	1.34		22.74	85.05
01.09.2015	38.61	3.94	7.84	2.35	2.60	1.24		25.46	82.04
01.10.2015	36.79	3.75	7.96	2.35	2.60	1.24		27.35	82.04
01.11.2015	38.67	3.94	7.89	2.35	2.60	1.36		26.98	83.79
01.12.2015	39.43	4.02	7.82	2.35	2.60	1.37		26.20	83.79
01.01.2016	35.41	3.97	7.99	2.35	2.60	1.18		27.29	80.79
01.02.2016	28.38	3.18	8.00	2.35	2.60	1.71		29.57	75.79
01.03.2016	24.44	2.74	8.00	2.35	2.60	1.42		29.57	71.12
01.04.2016	25.77	2.89	8.00	2.35	2.60	1.34		29.57	72.52
01.05.2016	29.74	3.33	8.00	2.35	2.60	1.34		25.16	72.52
01.06.2016	35.76	4.00	8.00	2.35	2.60	1.34		18.47	72.52
01.07.2016	38.91	4.36	6.86	2.41	2.67	1.45		15.86	72.52
01.08.2016	37.76	4.62	7.80	2.41	2.67	1.40		15.86	72.52
01.09.2016	34.88	4.26	8.00	2.41	2.67	1.30		19.00	72.52
01.10.2016	34.64	4.24	7.82	2.41	2.67	1.35		19.39	72.52
01.11.2016	35.79	4.38	7.94	2.41	2.67	1.34		17.99	72.52
01.12.2016	39.40	4.82	6.82	2.41	2.67	1.30		17.80	75.22
01.01.2017	41.03	5.02	7.51	2.41	2.67	1.30		15.28	75.22
16.01.2017	41.03	5.02	7.90	2.41	2.67	1.30		16.89	77.22
01.02.2017	42.61	5.21	7.87	2.41	2.67	1.32		17.39	79.48
16.02.2017	42.61	5.21	7.93	2.41	2.67	1.32		18.33	80.48
01.03.2017	43.40	5.31	7.98	2.41	2.67	1.31		18.92	82.00
01.04.2017	44.21	5.41	7.94	2.41	2.67	1.45		18.91	83.00
01.05.2017	42.76	5.23	7.65	2.41	2.67	1.45		20.83	83.00
01.06.2017	41.39	5.06	7.69	2.41	2.67	1.30		20.88	81.40
01.07.2017	40.70	4.97	7.80	2.41	2.67	1.30		20.05	79.90
01.08.2018	38.09	4.66	7.95	2.41	2.67	1.29		22.83	79.90
06.08.2017	38.09	4.66	8.00	2.41	2.67	1.29		20.28	77.40
01.09.2017	40.35	4.93	7.88	2.41	2.67	1.30		17.86	77.40
01.10.2017	41.15	5.08	7.87	2.41	2.67	1.43		18.79	79.40
01.11.2017	44.60	5.47	8.00	2.41	2.67	1.42		20.02	84.59
01.12.2017	45.68	5.59	8.00	2.41	2.67	1.26		20.34	85.95
01.01.2018	50.88	6.22	8.00	2.41	2.67	1.46		18.27	89.91
01.02.2018	55.09	6.74	7.90	2.41	2.67	1.55		19.47	95.83
01.03.2018	56.89	6.96	8.00	2.41	2.67	1.52		20.00	98.45

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HIGH SPEED DIESEL OIL SALE PRICE (Continued)

Unit: Rupees/Litre

Period	Ex-Refinery Price: NRL/PRL	Customs/ Exise Duty	Petroleum Develop'nt Levy	Distribution Margin	Dealer's Commission	Inland Freight Margin	Development Surcharge	GST	Fixed Sale Price with GST
01.04.2018	54.34	6.65	8.00	2.41	2.67	1.58		20.80	96.45
01.05.2018	55.96	6.85	8.00	2.41	2.67	1.57		21.30	98.76
01.06.2018	62.12	8.24	7.48	2.41	2.67	1.49		14.35	98.76
12.06.2018	62.12	8.24	8.00	2.41	2.67	1.49		20.38	105.31
01.07.2018	67.07	8.89	8.00	2.64	2.93	1.55		28.23	119.31
08.07.2018	67.07	8.89	8.00	2.64	2.93	1.55		21.86	112.94
01.08.2018	68.35	9.13	7.89	2.64	2.93	1.63		20.37	112.94
01.09.2018	63.77	8.53	7.89	2.64	2.93	1.59		19.22	106.57
01.10.2018	67.06	8.94	7.62	2.64	2.93	1.51		15.87	106.57
01.11.2018	77.02	10.21	6.51	2.64	2.93	1.53		12.10	112.94
01.12.2018	73.58	9.75	7.94	2.64	2.93	1.34		12.76	110.94
01.01.2019	58.54	7.76	18.00	2.64	2.93	1.31		15.50	106.68
01.02.2019	55.27	7.34	22.00	2.64	2.93	1.00		15.50	106.68
01.03.2019	65.24	8.64	13.99	2.64	2.93	1.80		16.19	111.43
01.04.2019	70.26	9.32	13.58	2.64	2.93	1.64		17.06	117.43
01.05.2019	70.50	9.35	17.37	2.64	2.93	1.13		13.51	117.43
05.05.2019	70.50	9.35	18.00	2.64	2.93	1.13		17.77	122.32
01.06.2019	77.29	10.24	18.00	2.64	2.93	1.13		14.59	126.82

Source: DG(Oil)

Note:- Before April 2012 custom duty was applicable on imported HSD and Deemed duty was applicable for local refineries.

Table: 2.15.5

LIGHT DIESEL OIL SALE PRICE

Unit: Rupees/Litre

Period	Ex-Refinery Price: NRL/PRL	Customs/ Exise Duty	Petroleum Develop'nt Levy	Distribution Margin	Dealer's Commission	Inland Freight Margin	Development Surcharge	GST	Fixed Sale Price
01.07.2011	67.04			1.61		1.51		11.23	81.39
01.08.2011	68.31			1.61		2.08		11.52	83.52
26.08.2011	66.09			1.61		1.97	2.33	11.52	83.52
01.10.2011	66.92			1.61		1.14	2.33	11.52	83.52
01.11.2011	65.52			1.61		1.22	2.33	11.31	81.99
01.12.2011	69.21			1.61		1.66	2.33	11.97	86.78
01.01.2012	68.79			1.61		1.69	2.72	11.97	86.78
01.02.2012	71.99			1.61		1.45	2.72	12.44	90.21
01.03.2012	74.58			1.61		1.51	2.72	12.87	93.29
01.04.2012	77.61			1.61		3.18	2.72	13.62	98.74
04.04.2012	77.61			1.61		3.18	2.72	13.62	98.74
01.05.2012	76.20			1.61		3.18	3.00	13.44	97.43
01.06.2012	71.83			1.61		2.52	3.00	12.63	91.59
01.07.2012	65.12			1.61		2.43	3.00	11.55	83.71
16.07.2012	66.55			1.61		2.40	3.00	11.77	85.33
01.08.2012	70.10			1.61		2.97	3.00	12.43	90.11
16.08.2012	72.81			1.61		3.01	0.25	12.43	90.11
23.08.2012	72.81			1.61		3.01	3.00	12.87	93.30
01.09.2012	77.77			1.61		2.83	3.00	13.63	98.84
10.09.2012	78.21			1.61		2.88	3.00	13.71	99.41
17.09.2012	78.06			1.61		2.91	3.00	13.69	99.27

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LIGHT DIESEL OIL SALE PRICE (continued)

Unit: Rupees/Litre

Period	Ex-Refinery Price: NRL/PRL	Customs/ Exise Duty	Petroleum Develop'nt Levy	Distribution Margin	Dealer's Commission	Inland Freight Margin	Development Surcharge	GST	Fixed Sale Price
24.09.2012	76.26			1.61		2.90	3.00	13.40	97.17
01.10.2012	75.16			1.61		3.18	3.00	13.27	96.22
08.10.2012	75.57			1.61		3.18	3.00	13.34	96.70
15.10.2012	76.65			1.61		3.16	3.00	13.51	97.93
22.10.2012	76.41			1.61		3.19	3.00	13.47	97.68
22.11.2012	73.14			1.61		3.19	3.00	12.95	93.89
22.12.2012	73.56			1.61		3.16	3.00	13.01	94.34
22.01.2013	73.55			1.61		3.16	3.00	13.01	94.33
01.03.2013	76.53			1.61		3.57	3.00	13.55	98.26
04.03.2013	76.53			1.61		3.57	0.00	13.07	94.78
01.04.2013	73.50			1.61		2.35	2.95	12.87	93.28
01.05.2013	69.77			1.61		2.40	3.00	12.28	89.06
01.06.2013	69.89			1.61		2.34	3.00	12.29	89.13
13.06.2013	69.89			1.61		2.34	3.00	13.06	89.90
21.06.2013	69.89			1.61		2.34	3.00	12.29	89.13
01.07.2013	71.47			1.61		2.70	3.00	13.39	92.17
01.08.2013	74.84			1.61		2.70	3.00	13.97	96.12
01.09.2013	76.99			1.61		2.53	3.00	14.30	98.43
01.10.2013	78.75			1.61		3.17	3.00	14.71	101.24
01.11.2013	79.48			1.61		2.99	2.45	14.71	101.24
01.12.2013	80.43			1.61		3.04	1.75	14.71	101.54
01.01.2014	81.63			1.61		3.08	0.21	14.71	101.24
01.02.2014	78.07			1.61		2.98	3.00	14.56	100.22
01.03.2014	78.47			1.61		2.84	2.74	14.56	100.22
01.04.2014	74.07			1.61		2.57	3.00	13.81	95.06
01.05.2014	72.83			1.61		3.01	3.00	13.68	94.13
01.06.2014	73.67			1.61		3.04	2.13	13.68	94.13
01.07.2014	73.19			1.61		2.84	2.81	13.68	94.13
29.07.2014	72.27			1.61		2.84	3.00	13.55	93.27
01.08.2014	72.27			1.61		2.84	3.00	13.55	93.27
01.09.2014	71.49			1.61		2.60	3.00	13.38	92.08
01.10.2014	70.84			1.61		2.68	3.00	13.28	91.41
01.11.2014	63.95			1.61		2.70	3.00	12.11	83.37
01.12.2014	59.34			1.61		2.70	3.00	11.33	77.98
01.01.2015	48.19			1.61		2.53	3.00	12.17	67.50
01.02.2015	38.54			1.61		2.47	3.00	12.32	57.94
01.03.2015	42.75			1.61		2.59	2.15	8.84	57.94
01.04.2015	44.04			1.61		2.60	0.85	8.84	57.94
01.05.2015	44.63			1.61		2.73	0.55	8.42	57.94
01.06.2015	48.75			1.61		2.67	-	8.48	61.51
01.07.2015	46.20		2.61	1.61		2.15		8.94	61.51
01.08.2015	40.41		3.00	1.61		2.14		9.43	56.59
01.09.2015	34.78		2.89	1.61		2.10		12.21	53.59
01.10.2015	36.51		1.06	1.61		2.20		12.21	53.59
01.11.2015	36.47		2.75	1.61		2.39		10.37	53.59
01.12.2015	35.68		3.00	1.61		2.64		10.30	53.23
01.01.2016	29.07		3.00	1.61		2.56		8.70	44.94
01.02.2016	22.52		3.00	1.61		3.18		9.63	39.94

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LIGHT DIESEL OIL SALE PRICE (continued)

Unit: Rupees/Litre

Period	Ex-Refinery Price: NRL/PRL	Customs/ Exise Duty	Petroleum Develop'nt Levy	Distribution Margin	Dealer's Commission	Inland Freight Margin	Development Surcharge	GST	Fixed Sale Price
01.03.2016	22.13		3.00	1.61		1.60		9.63	37.97
01.04.2016	28.08		3.00	1.61		0.56		4.72	37.97
01.05.2016	29.57		3.00	1.61		0.41		3.38	37.97
01.06.2016	34.18		0.05	1.61		0.27		1.86	37.97
01.07.2016	36.36		2.80	1.61		0.52		2.06	43.35
01.08.2016	35.00		2.85	1.61		0.49		3.40	43.35
01.09.2016	33.68		2.92	1.61		0.49		4.64	43.34
01.10.2016	35.06		1.39	1.61		0.64		4.64	43.34
01.11.2016	39.03		1.08	1.61		0.77		0.85	43.34
01.12.2016	37.07		2.92	1.61		0.68		1.06	43.34
01.01.2017	40.37		0.66	1.61		0.70		0.00	43.34
16.01.2017	40.37		0.66	1.61		0.70		0.00	43.34
01.02.2017	42.27		0.00	1.61		0.87	(1.41)	0.00	43.34
16.02.2017	42.27		0.00	1.61		0.87	(1.41)	0.00	43.34
01.03.2017	40.73		0.61	1.61		1.05		0.00	44.00
01.04.2017	38.58		2.77	1.61		1.04		0.00	44.00
01.05.2017	41.67		0.29	1.61		0.43		0.00	44.00
01.06.2017	39.77		1.46	1.61		1.16		0.00	44.00
01.07.2017	37.67		2.91	1.61		1.16		0.65	44.00
01.08.2018	39.49		0.84	1.61		2.06		0.00	44.00
06.08.2017	39.49		0.84	1.61		2.06		0.00	44.00
01.09.2017	41.35		(1.02)	1.61		2.06		0.00	44.00
01.10.2017	44.10		(0.65)	1.61		0.94		0.00	46.00
01.11.2017	44.53		1.89	1.61		0.97		0.00	49.00
01.12.2017	47.34		2.00	1.61		1.17		0.00	52.12
01.01.2018	49.52		2.85	1.61		1.09		3.30	58.37
01.02.2018	54.40		2.90	1.61		0.90		4.49	64.30
01.03.2018	50.34		3.00	1.61		0.86		9.49	65.30
01.04.2018	50.89		2.77	1.61		0.78		9.25	65.30
01.05.2018	56.37		3.00	1.61		0.77		7.10	68.85
01.06.2018	63.38		2.37	1.61		0.81		0.68	68.85
12.06.2018	63.38		3.00	1.61		0.81		6.19	74.99
01.07.2018	63.72		3.00	1.61		0.82		11.76	80.91
08.07.2018	63.72		3.00	1.61		0.82		6.22	75.37
01.08.2018	69.02		2.90	1.61		1.09		0.75	75.37
01.09.2018	69.62		2.90	1.61		1.08		0.75	75.96
01.10.2018	73.18		0.30	1.61		0.87			75.96
01.11.2018	79.80		0.30	1.61		0.73			82.44
01.12.2018	71.77		2.93	1.61		0.74		0.39	77.44
01.01.2019	59.37		3.00	1.61		0.36		10.94	75.28
01.02.2019	60.52		2.00	1.61		0.00		10.90	75.03
01.03.2019	63.49		0.77	1.61		0.40		11.27	77.54
01.04.2019	66.44		0.02	1.61		0.77		11.70	80.54
01.05.2019	68.94		2.58	1.61		0.76		6.65	80.54
05.05.2019	68.94		3.00	1.61		0.76		12.63	86.94
01.06.2019	70.37		3.00	1.61		0.76		12.88	88.62

Source: DG(Oil).

Table: 2.16

DEREGULATED FURNACE OIL SALE PRICE

(PSO Price Ex-Karachi)

Unit: Rupees/Tonne

Effective Date	Imported Oil Ex-ZOT	Local Reficeries	
		Ex-Keamari (PRL)	Ex-Keamari (NRL)
01.07.2016	36,410.40	-	35,305.20
16.07.2016	37,008.00	-	37,117.20
01.08.2016	36,867.60	-	35,410.80
16.08.2016	34,496.40	-	33,141.60
01.09.2016	36,268.80	-	38,232.00
16.09.2016	38,144.40	-	38,541.60
01.10.2016	38,461.20	-	38,587.20
16.10.2016	40,957.20	-	41,529.60
01.11.2016	42,805.20	-	42,843.60
16.11.2016	43,587.60	-	40,483.20
01.12.2016	41,850.00	-	41,463.60
16.12.2016	41,604.00	-	45,969.60
01.01.2017	45,864.00	-	48,412.80
16.01.2017	49,687.20	-	49,686.00
01.02.2017	49,756.80	-	48,103.20
16.02.2017	48,019.20	-	47,223.60
01.03.2017	48,202.80	-	47,910.00
16.03.2017	48,237.60	-	46,562.00
01.04.2017	48,403.20	-	43,018.80
16.04.2017	44,106.00	-	45,966.00
01.05.2017	46,245.60	-	45,768.00
16.05.2017	44,379.60	-	44,414.40
01.06.2017	45,369.60	-	46,781.82
16.06.2017	45,910.80	-	44,968.62
01.07.2017	44,088.00	43,383.60	43,380.00
16.07.2017	45,009.60	44,488.80	44,486.40
01.08.2017	45,782.40	45,283.20	45,282.00
16.08.2017	47,229.60	46,531.20	46,532.40
01.09.2017	45,912.00	46,065.60	46,064.40
16.09.2017	45,816.00	47,749.20	4,779.20
01.10.2017	47,410.80	50,301.60	50,302.80
16.10.2017	49,404.00	49,642.80	49,644.00
01.11.2017	49,117.00	50,630.40	50,631.60
16.11.2017	52,023.60	54,642.00	54,642.00
21.11.2017	-	51,915.60	54,642.00
23.11.2017	-	51,915.60	51,792.00
01.12.2017	54,627.60	51,915.60	51,792.00
05.12.2017	-	50,239.20	48,997.20
06.12.2017	-	48,934.80	48,997.20
09.12.2017	-	47,680.80	48,997.20
11.12.2017	-	47,680.80	47,680.80
13.12.2017	-	47,680.80	47,680.80
16.12.2017	59,190.00	47,680.80	47,680.80
01.01.2018	65,689.20	47,680.80	50,448.00
02.01.2018	-	50,301.60	50,448.00
16.01.2018	67,052.40	55,207.20	55,224.00
01.02.2018	67,052.40	59,424.00	59,463.60
16.02.2018	58,062.00	58,174.80	58,182.00
01.03.2018	55,114.80	57,008.40	57,002.40
05.03.2018	-	57,008.40	55,144.80
06.03.2018	-	55,144.80	55,144.80

Contd.

Furnace Oil Sale Price (continued)

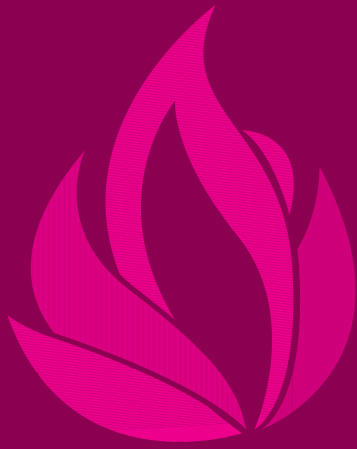
Unit: Rupees/Tonne

Effective Date	Imported Oil Ex-ZOT	Local Refineries	
		Ex-Keamari (PRL)	Ex-Keamari (NRL)
08.03.2018	-	55,144.80	52,164.00
16.03.2018	55,114.80	56,635.20	55,890.00
01.04.2018	58,446.00	59,665.20	58,995.60
16.04.2018	60,744.00	62,434.80	62,436.00
01.05.2018	60,744.00	65,391.60	65,389.20
04.05.2018	69,672.00	-	-
16.05.2018	67,550.40	68,427.60	68,425.20
01.06.2018	72,883.20	73,252.80	73,246.80
16.06.2018	77,788.80	73,725.60	73,723.20
01.07.2018	76,108.50	73,970.91	73,968.57
16.07.2018	77,442.30	76,695.84	76,699.35
01.08.2018	79,963.65	79,062.75	79,068.60
16.08.2018	82,176.12	77,210.64	77,211.81
01.09.2018	80,811.90	75,000.51	75,002.85
16.09.2018	81,708.12	76,459.50	76,459.50
01.10.2018	81,708.12	79,117.74	79,120.08
16.10.2018	88,359.57	87,800.31	87,802.65
01.11.2018	94,122.99	88,738.65	88,737.48
16.11.2018	92,771.64	86,104.98	86,108.49
01.12.2018	89,154.00	77,494.95	77,497.29
16.12.2018	79,841.97	59,336.55	69,872.40
01.01.2019	79,841.97	59,324.85	59,336.55
16.01.2019	79,841.97	60,232.77	60,265.53
01.02.2019	79,841.97	72,172.62	72,178.47
16.02.2019	79,841.97	75,418.20	75,417.03
01.03.2019	79,841.97	80,006.94	80,005.77
16.03.2019	79,841.97	81,636.75	81,633.24
01.04.2019	79,841.97	81,333.72	81,333.72
16.04.2019	79,841.97	82,205.37	82,205.37
01.05.2019	79,841.97	84,197.88	84,201.39
16.05.2019	94,142.88	82,090.71	82,088.37
01.06.2019	85,236.84	84,161.61	84,168.63
16.06.2019	83,747.43	77,500.80	77,500.80

Source: PSO.

* Local Refineries: NRL, PRL, Byco.

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Part 3

natural gas

2018-19

■ Reserves (Balance Recoverable)	21.4 trillion cubic feet
■ Production	3,936 million CFt/Day
■ Consumption	1,453 billion CFt
■ LPG Supplies	1.057 million tonnes
■ LPG Consumption	1.061 million tonnes
■ LNG Import	373,410,403 MMBTu
■ LNG Import Bill	3,392 million US\$

Table: 3.1

NATURAL GAS RESERVES AS ON JUNE 30, 2019

							Unit: Trillion Cubic Feet	
S. No.	Non-associated Gasfields	Operator Company	Province	Original Recoverable Reserves	Cumulative Production	Balance Recoverable Reserves	Heating Value Btu/cu.ft	
1	Savi Ragma	BG	Balochistan	0.03000		0.03000	1159	
2	Zamzama	OPPL	Sindh	1.77509	1.63154	0.14355	805	
3	Rodho (L.G)	Dewan Petr.	Punjab	0.27486	0.02798	0.24688	1000	
4	Rodho (Chiltan)	Dewan Petr.	Punjab	0.52055	0.05474	0.46581	875	
5	Badhra	Eni Pak	Sindh	0.31200	0.24900	0.06300	920	
6	Bhit	Eni Pak	Sindh	1.68200	1.63800	0.04400	840	
7	Kadanwari	Eni Pak	Sindh	0.68300	0.67100	0.01200	882	
8	Lundali	Eni Pak	Sindh	0.00211	0.00211		777	
9	Aqeeq	MPCL	Sindh	0.00325	0.00187	0.00139	1035	
10	Mari HRL	MPCL	Sindh	8.72000	5.52450	3.19550	735	
11	Mari SML/SUL	MPCL	Sindh	0.08700	0.03224	0.05476	860	
12	Mari PKL	MPCL	Sindh	0.05970	0.02080	0.03890	710	
13	Mari Deep	MPCL	Sindh	1.63300	0.19913	1.43387	560	
14	Mari SML/SUL (SML-11)	MPCL	Sindh	0.02120	0.01706	0.00414	865	
15	Mari SML/SUL (Shahbaz)	MPCL	Sindh	0.02760		0.02760	840	
16	Mari SML/SUL (Shaheen)	MPCL	Sindh	0.06790		0.06790	865	
17	Mari-Tipu	MPCL	Sindh	0.11890	0.00003	0.11887	470	
18	Kalabagh	MPCL	Punjab	0.01336	0.00376	0.00960	1115	
19	Koonj	MPCL	Sindh	0.00395	0.00388	0.00007	870	
20	Sujawal	MPCL	Sindh	0.02146	0.01502	0.00644	1020	
21	Sujjal	MPCL	Sindh	0.05352	0.02312	0.03041	1035	
22	Zarghun South	MPCL	Balochistan	0.07672	0.02392	0.05280	923	
23	Makori	MOL	KPK	0.05400	0.05300	0.00100	1109	
24	Makori Deep	MOL	KPK	0.01100	0.00400	0.00700	1123	
25	Tolanj	MOL	KPK	0.00600	0.00400	0.00200	998	
26	Tolanj West	MOL	KPK	0.02700	0.00600	0.02100	1013	
27	Manzalai	MOL	KPK	0.51700	0.47100	0.04600	1020	
28	Mamikhel	MOL	KPK	0.10700	0.09500	0.01200	1091	
29	Maramzai	MOL	KPK	0.57500	0.29800	0.27700	1087	
30	Mardankhel	MOL	KPK	0.18100	0.03800	0.14300	1104	
31	Aradin	OGDCL	Sindh	0.00226		0.00226	851	
32	Bagla	OGDCL	Sindh	0.01485	0.00946	0.00539	950	
33	Baloch	OGDCL	Sindh	0.00359	0.00234	0.00125	1148	
34	Bhal Syedan	OGDCL	Punjab	0.00403	0.00343	0.00060	1156	
35	Bhambra	OGDCL	Sindh	0.03849		0.03849	781	
36	Bitrism West	OGDCL	Sindh	0.01954	0.00022	0.01932	1230	
37	Bahu	OGDCL	Punjab	0.03520	0.03514	0.00006	467	
38	Bobi	OGDCL	Sindh	0.03453	0.03322	0.00131	1303	
39	Chak-2	OGDCL	Sindh	0.04550	0.02981	0.01569	1125	
40	Chak-7A	OGDCL	Sindh	0.00241	0.00219	0.00022	1176	
41	Chak-63	OGDCL	Sindh	0.01027	0.00486	0.00541	1211	
42	Chak-63 SE	OGDCL	Sindh	0.00428	0.00392	0.00036	1261	
43	Chak-66	OGDCL	Sindh	0.00137		0.00137	768	
44	Chak-66 NE	OGDCL	Sindh	0.00468	0.00125	0.00343	1280	
45	Chak-5 Dim South	OGDCL	Sindh	0.02763	0.02535	0.00228	1182	
46	Chandio	OGDCL	Sindh	0.02084	0.00024	0.02060	1176	
47	Chabaro	OGDCL	Sindh	0.02523		0.02523	1080	
48	Chhutto	OGDCL	Sindh	0.02354	0.00293	0.02061	1096	
49	Dakhni/Deep	OGDCL	Punjab	0.40100	0.29635	0.10465	1065	
50	Dars	OGDCL	Sindh	0.01217	0.00476	0.00741	1078	
51	Dars Deep	OGDCL	Sindh	0.01184	0.00602	0.00582	1095	
52	Dars West	OGDCL	Sindh	0.03640	0.00699	0.02941	1045	
53	Daru	OGDCL	Sindh	0.02111	0.01960	0.00151	1168	
54	Dachrapur	OGDCL	Sindh	0.02405	0.01316	0.01089	928	
55	Dhamraki	OGDCL	Sindh	0.00771	0.00771		1182	
56	Dhodak	OGDCL	Punjab	0.24995	0.24695	0.00300	1143	
57	Dhodak Deep	OGDCL	Punjab				678	
58	Gopang	OGDCL	Sindh	0.00402	0.00036	0.00366	1254	
59	Gundanwari	OGDCL	Sindh	0.02355		0.02355	1275	
60	Hakeem Daho	OGDCL	Sindh	0.04792	0.01291	0.03501	1050	
61	Hundi	OGDCL	Sindh	0.03223	0.03028	0.00195	860	
62	Jand	OGDCL	Sindh	0.01060	0.00047	0.01013	959	
63	Jhal Magsi South	OGDCL	Balochistan	0.03678		0.03678	934	
64	Khamiso	OGDCL	Sindh	0.00726	0.00196	0.00530	697	
65	Kunar Deep	OGDCL	Sindh	0.78820	0.21256	0.57564	1029	
66	Kunar West	OGDCL	Sindh	0.07770	0.01922	0.05848	1029	
67	Kunar South	OGDCL	Sindh	0.04225	0.00800	0.03425	1066	
68	Lala Jamali	OGDCL	Sindh	0.01420	0.00663	0.00757	1331	
69	Loti	OGDCL	Balochistan	0.42232	0.37538	0.04694	836	

Contd.....

Natural Gas Reserves (Contd.)

Unit: Trillion Cubic Feet

S. No.	Non-associated Gasfields	Operator Company	Province	Original Recoverable Reserves	Cumulative Production	Balance Recoverable Reserves	Heating Value Btu/cu. ft
70	Maru	OGDCL	Sindh	0.01376	0.00668	0.00708	787
71	Maru East	OGDCL	Sindh	0.00170	0.00162	0.00008	695
72	Maru South	OGDCL	Sindh	0.00666	0.00522	0.00144	760
73	Mela	OGDCL	KPK	0.19684	0.05576	0.14108	1170
74	Mithrao	OGDCL	Sindh				1182
75	Mithri	OGDCL	Sindh	0.00655		0.00655	911
76	Moolan	OGDCL	Sindh	0.01610	0.00056	0.01554	1150
77	Nashpa	OGDCL	KPK	0.65577	0.21782	0.43795	1130
78	Nim	OGDCL	Sindh	0.00166	0.00119	0.00047	1233
79	Nim West	OGDCL	Sindh	0.00349		0.00349	953
80	Nandpur	OGDCL	Punjab	0.16932	0.16655	0.00277	227
81	Norai Jagir	OGDCL	Sindh	0.01086	0.01063	0.00023	1202
82	Nur	OGDCL	Sindh	0.01284	0.00168	0.01116	1233
83	Pakhro	OGDCL	Sindh	0.00450	0.00297	0.00153	970
84	Panjpir	OGDCL	Punjab	0.05654	0.05622	0.00032	227
85	Pasakhi Deep	OGDCL	Sindh	0.46200	0.08372	0.37828	895
86	Pasakhi East	OGDCL	Sindh	0.02660	0.00724	0.01936	1012
87	Pasakhi WD	OGDCL	Sindh	0.03500	0.00029	0.03471	1142
88	Pirkoh	OGDCL	Balochistan	1.05735	1.05379	0.00356	870
89	Qadirpur	OGDCL	Sindh	4.71760	3.55030	1.16730	887
90	Resham	OGDCL	Sindh	0.00120	0.00102	0.00018	1215
91	Reti	OGDCL	Sindh	0.00991	0.00684	0.00307	763
92	Saand	OGDCL	Sindh	0.01470		0.01470	813
93	Sadkal	OGDCL	Punjab	0.07932	0.07687	0.00245	1162
94	Sari	OGDCL	Sindh	0.01999	0.01953	0.00046	860
95	Shah	OGDCL	Sindh	0.02030	0.00851	0.01179	1284
96	Shekhan	OGDCL	Sindh	0.00168	0.00168		1040
97	Soghri	OGDCL	Sindh	0.03241	0.01220	0.02021	1050
98	Suleman	OGDCL	Sindh	0.04230		0.04230	873
99	Tando Allah Yar	OGDCL	Sindh	0.01575	0.00878	0.00697	888
100	Tando Allah Yar North	OGDCL	Sindh	0.00157		0.00157	888
101	Tando Allah Yar SW	OGDCL	Sindh	0.02939		0.02939	1023
102	Thal East	OGDCL	Sindh	0.02853		0.02853	767
103	Thal West	OGDCL	Sindh	0.01119		0.01119	925
104	Thora Deep	OGDCL	Sindh	0.03761	0.00794	0.02967	1028
105	Uch	OGDCL	Balochistan	5.16000	1.88649	3.27351	425
106	Unar	OGDCL	Sindh	0.03080	0.00724	0.02356	1034
107	Zin	OGDCL	Balochistan	1.13224		1.13224	517
108	Latif	OMV	Sindh	0.39433	0.23644	0.15789	1007
109	Miano	OMV	Sindh	0.74899	0.65807	0.09092	997
110	Sawan	OMV	Sindh	1.59534	1.51172	0.08362	1007
111	Tajjal	OMV	Sindh	0.05500	0.05069	0.00431	1007
112	Ratana	OPL	Punjab	0.19950	0.06758	0.13192	1106
113	Aminah	PEL	Sindh	0.00970		0.00970	995
114	Ayesha	PEL	Sindh	0.00960		0.00960	967
115	Ayesha North	PEL	Sindh	0.00850		0.00850	967
116	Badar	PEL	Sindh	0.09340	0.07200	0.02140	572
117	Kandra	PEL	Sindh	1.85800		1.85800	143
118	Khanpur	PEL	Sindh	0.00910	0.00900	0.00010	851
119	Hamza	PEL	Sindh	0.00900		0.00900	644
120	Hasan	PEL	Sindh	0.07140	0.06870	0.00270	639
121	Sadiq	PEL	Sindh	0.00430	0.00330	0.00100	654
122	Zainab	PEL	KPK	0.00670		0.00670	1201
123	Adhi	PPL	Punjab	0.57096	0.31609	0.25487	1200
124	Adhi (Sakessar)	PPL	Punjab	0.02360	0.01438	0.00922	1220
125	Adhi South	PPL	Punjab	0.04880	0.00065	0.04815	1220
126	Adam	PPL	Sindh	0.02790	0.02299	0.00491	879
127	Adam West	PPL	Sindh	0.03706	0.02037	0.01669	986
128	Badeel	PPL	Sindh	0.03003		0.03003	777
129	Chachar	PPL	Sindh	0.02770	0.02312	0.00458	785

Contd.....

Natural Gas Reserves (Contd.)

Unit: Trillion Cubic Feet

S. No.	Non-associated Gasfields	Operator Company	Province	Original Recoverable Reserves	Cumulative Production	Balance Recoverable Reserves	Heating Value Btu/cu. ft
130	Faiz	PPL	Sindh				750
131	Fazl	PPL	Sindh	0.01370		0.01370	1010
132	Hadaf	PPL	Sindh	0.04949		0.04949	1102
133	Kandhkot	PPL	Sindh	1.98202	1.40634	0.57568	820
134	Kinza	PPL	Sindh	0.00370	0.00044	0.00326	890
135	Mazarani	PPL	Sindh	0.04871	0.04848	0.00023	1008
136	Shahdad	PPL	Sindh	0.04083	0.01382	0.02701	1040
137	Sharf	PPL	Sindh	0.35800	0.05387	0.30413	650
138	Sui Deep	PPL	Balochistan				
139	Sui-SML	PPL	Balochistan	11.31800	10.45801	0.85999	955
140	Sui-HRL	PPL	Balochistan	0.07800	0.02888	0.04912	375
141	Sui-pab	PPL	Balochistan	0.16700	0.13127	0.03573	911
142	Sui-Sul	PPL	Balochistan	0.84600	0.65390	0.19210	996
143	Kabir	PPL	Sindh	0.01620	0.00076	0.01544	1190
144	Zafir	PPL	Sindh	0.09750		0.09750	760
145	Rehmat	OMV Maurice	Sindh	0.03900	0.03900		978
146	Mehar	OMV Maurice	Sindh	0.09529	0.03270	0.06259	1079
147	Mitha	OMV Maurice	Sindh	0.00860	0.00215	0.00646	997
148	Saqib	OMV Maurice	Sindh	0.02020	0.02020		941
149	Sofiya	OMV Maurice	Sindh	0.03133	0.00593	0.02539	1079
150	Bela	POL	Punjab	0.00800	0.00159	0.00641	1031
151	Sara	Spud Energy	Sindh	0.02753	0.02673	0.00080	797
152	Suri	Spud Energy	Sindh	0.03208	0.02920	0.00288	815
153	Haseeb	Hycarbex	Sindh	0.17000	0.01200	0.15800	810
154	Ali	UEPL	Sindh	0.02108	0.01792	0.00317	1063
155	Ahmed	UEPL	Sindh	0.00052	0.00052		944
156	Amdani	UEPL	Sindh	0.00000	0.00000		617
157	Ali-2	UEPL	Sindh	0.01944	0.00263	0.01681	1002
158	Babarki	UEPL	Sindh	0.00098	0.00079	0.00019	1033
159	Bago	UEPL	Sindh	0.00077	0.00015	0.00063	869
160	Bakhsh Deep	UEPL	Sindh	0.01155	0.01056	0.00099	899
161	Baqar Deep	UEPL	Sindh	0.00601	0.00601		1023
162	Baudero	UEPL	Sindh	0.00196	0.00088	0.00109	961
163	Bhanoki	UEPL	Sindh	0.00182	0.00182		1087
164	Bilal/Bilal North/Siraj South	UEPL	Sindh	0.01915	0.01915		986
165	Bhatti/Nakurji	UEPL	Sindh	0.08069	0.08061	0.00008	1092
166	Bukhari	UEPL	Sindh	0.09698	0.09698		1007
167	Bukhari Deep	UEPL	Sindh	0.02371	0.02200	0.00171	1056
168	Buzdar Unit	UEPL	Sindh	0.18531	0.18439	0.00093	1026
169	Buzdar South	UEPL	Sindh	0.00282	0.00207	0.00075	943
170	Buzdar South Deep	UEPL	Sindh	0.03920	0.03027	0.00893	1084
171	Chaman	UEPL	Sindh	0.00275	0.00272	0.00003	1014
172	Fatehshah	UEPL	Sindh	0.00263	0.00263		1026
173	Fatehshah North	UEPL	Sindh	0.00481	0.00481		1076
174	Gagani	UEPL	Sindh	0.00009	0.00009		900
175	Golarchi	UEPL	Sindh	0.08221	0.08215	0.00006	1041
176	Hakro	UEPL	Sindh	0.00188	0.00064	0.00124	1104
177	Haider Deep	UEPL	Sindh	0.00083	0.00057	0.00025	971
178	Hayat	UEPL	Sindh	0.00172	0.00158	0.00014	1152
179	Jabo	UEPL	Sindh	0.01493	0.01493		912
180	Jalal	UEPL	Sindh	0.03459	0.03459		1030
181	Jarar Deep	UEPL	Sindh	0.00781	0.00781		1070
182	Jhaberi	UEPL	Sindh	0.00617	0.00428	0.00189	734
183	Jhok	UEPL	Sindh	0.00010	0.00010		1093
184	Jogwani	UEPL	Sindh	0.06177	0.06177		981
185	Junathi South	UEPL	Sindh	0.00485	0.00485		1020
186	Kamal North	UEPL	Sindh	0.01229	0.00870	0.00359	1261
187	Kamal North 3	UEPL	Sindh	0.00004	0.00004		1251
188	Kausar/Usman	UEPL	Sindh	0.11385	0.11140	0.00245	949

Contd.....

Natural Gas Reserves (Contd.)

Unit: Trillion Cubic Feet

S. No.	Non-associated Gasfields	Operator Company	Province	Original Recoverable Reserves	Cumulative Production	Balance Recoverable Reserves	Heating Value Btu/cu. ft
189	Kato	UEPL	Sindh	0.00685	0.00680	0.00004	1268
190	Khaskheli North	UEPL	Sindh	0.00052	0.00052		1170
191	Khorewah	UEPL	Sindh	0.17917	0.16943	0.00973	1132
192	Khorewah Deep	UEPL	Sindh	0.01177	0.01027	0.00150	1080
193	Koli	UEPL	Sindh	0.01653	0.01653		1015
194	Korai	UEPL	Sindh	0.02036	0.01433	0.00603	1097
195	Korai North	UEPL	Sindh	0.00000	0.00000		1025
196	Kumbh	UEPL	Sindh	0.00190	0.00123	0.00068	927
197	Liari Deep	UEPL	Sindh	0.01020	0.01015	0.00005	1146
198	Limu	UEPL	Sindh	0.00033	0.00033		1044
199	Limu East	UEPL	Sindh	0.00001	0.00001		1075
200	Limu North	UEPL	Sindh	0.00404	0.00404		1034
201	Lodano	UEPL	Sindh	0.01180	0.00418	0.00761	1054
202	Lodano Deep	UEPL	Sindh	0.00400	0.00339	0.00061	1058
203	Mahi	UEPL	Sindh	0.00485	0.00485		1038
204	Malah	UEPL	Sindh	0.00131	0.00050	0.00082	1154
205	Mewa	UEPL	Sindh	0.00062	0.00057	0.00006	1033
206	Makrani	UEPL	Sindh	0.00235	0.00018	0.00217	1158
207	Malkani	UEPL	Sindh	0.00003	0.00003		1151
208	Missri	UEPL	Sindh	0.01337	0.01194	0.00143	753
209	Mulaki	UEPL	Sindh	0.00341	0.00341		1099
210	Makhdumpur	UEPL	Sindh	0.05657	0.05375	0.00282	1136
211	Makhdumpur Deep	UEPL	Sindh	0.02695	0.02311	0.00385	1100
212	Matli	UEPL	Sindh	0.05035	0.05023	0.00012	1022
213	Mohib	UEPL	Sindh	0.00470	0.00123	0.00347	992
214	Mohri	UEPL	Sindh	0.00139	0.00139		1124
215	Mor	UEPL	Sindh	0.00195	0.00195		928
216	Moroja	UEPL	Sindh	0.00280	0.00249	0.00031	1085
217	Niamat Basal	UEPL	Sindh	0.04830	0.04102	0.00727	1007
218	Naimat Basal 2X	UEPL	Sindh	0.00111	0.00067	0.00044	1310
219	Naimat West	UEPL	Sindh	0.46920	0.19277	0.27643	742
220	Nando	UEPL	Sindh	0.00024	0.00024		1135
221	Nurpur Deep	UEPL	Sindh	0.00265	0.00265		962
222	Oderolal	UEPL	Sindh	0.00122	0.00122		1136
223	Pir	UEPL	Sindh	0.00816	0.00816		1041
224	Pir Apan	UEPL	Sindh	0.00502	0.00502		847
225	Piaro Deep	UEPL	Sindh	0.00337	0.00332	0.00005	1149
226	Piaro Deep Basal	UEPL	Sindh	0.00375	0.00223	0.00152	1052
227	Qasim Deep	UEPL	Sindh	0.00863	0.00697	0.00166	938
228	Raj	UEPL	Sindh	0.00407	0.00136	0.00271	966
229	Rajani	UEPL	Sindh	0.37949	0.23578	0.14371	992
230	Ragni Deep	UEPL	Sindh	0.00065	0.00065		919
231	Rajpari	UEPL	Sindh	0.00000	0.00000		1223
232	Rind	UEPL	Sindh	0.00252	0.00252		1101
233	Rahim	UEPL	Sindh	0.01130	0.00578	0.00552	1005
234	Ramdiani	UEPL	Sindh	0.00214	0.00016	0.00198	1096
235	Rawal	UEPL	Sindh	0.00047	0.00023	0.00023	1117
236	Roshnai	UEPL	Sindh	0.00250	0.00209	0.00041	1192
237	Sahu	UEPL	Sindh	0.00190	0.00092	0.00097	1025
238	Sajan	UEPL	Sindh	0.00393	0.00355	0.00038	1071
239	Sakhi Deep	UEPL	Sindh	0.03154	0.02943	0.00211	1629
240	Sakhi South Deep	UEPL	Sindh	0.02292	0.02292		985
241	Salamat	UEPL	Sindh	0.04324	0.04040	0.00284	1004
242	Saman	UEPL	Sindh	0.00014	0.00004	0.00010	1140
243	Shah Dino	UEPL	Sindh	0.00056	0.00056		820
244	Sonro	UEPL	Sindh	0.03237	0.03179	0.00058	1118
245	Sohrab Deep	UEPL	Sindh	0.11517	0.09879	0.01638	1099
246	Suhrat	UEPL	Sindh	0.00174	0.00091	0.00083	1072

Contd.....

Natural Gas Reserves (Contd.)

Unit: Trillion Cubic Feet

S. No.	Non-associated Gasfields	Operator Company	Province	Original Recoverable Reserves	Cumulative Production	Balance Recoverable Reserves	Heating Value Btu/cu.ft
247	Sumar Deep	UEPL	Sindh	0.01828	0.01457	0.00371	1161
248	Sutiari Deep	UEPL	Sindh	0.29256	0.13327	0.15929	725
249	Tangri Deep	UEPL	Sindh	0.00991	0.00944	0.00047	1110
250	Tando Ghulam Ali	UEPL	Sindh	0.01567	0.01307	0.00261	986
251	Tharo	UEPL	Sindh	0.00898	0.00600	0.00298	1040
252	Tharo West	UEPL	Sindh	0.00065	0.00065		1098
253	Thebo	UEPL	Sindh	0.00362	0.00323	0.00038	1077
254	Turk	UEPL	Sindh	0.16886	0.16617	0.00270	1141
255	Turk Deep	UEPL	Sindh	0.12111	0.11312	0.00799	1109
256	Umar	UEPL	Sindh	0.01611	0.00848	0.00764	1139
257	Warar	UEPL	Sindh	0.00006	0.00006		1041
258	Wassayo	UEPL	Sindh	0.00047	0.00047		1004
259	Zaur	UEPL	Sindh	0.03410	0.03387	0.00023	1613
260	Zaur Deep	UEPL	Sindh	0.02443	0.01556	0.00887	1152
261	Zaur West	UEPL	Sindh	0.00060	0.00060		1127
262	Zaur South	UEPL	Sindh	0.00135	0.00135		1162
263	Rizq	POGC	Sindh	0.13664	0.01295	0.12369	927
264	POGC Rehman	POGC	Sindh	0.14149	0.02643	0.11506	933
ASSOCIATED GASES *				2.02059	1.39959	0.62100	
TOTAL: TCF				61.1959280	39.750295	21.445633	
Normalized TCF at 900 Btu/cu.ft.				55.65712	39.03270	16.62442	
Million TOE				1,195.64	838.51	357.13	

* See table 3.1.1 for details.
Source: DGPC.

Table: 3.1.1

Associated Gas Reserves as on June 30, 2019

Unit: Trillion Cubic Feet

S. No.	Associated Gasfields	Operator Company	Province	Original Recoverable Reserves	Cumulative Production	Balance Recoverable Reserves	Heating Value Btu/cu.ft
1	Makori East	MOL	KPK	0.38100	0.16000	0.22100	1171
2	Buzdar North	OGDCL	Sindh				1319
3	Chak-Naurang	OGDCL	Punjab				
4	Chanda	OGDCL	KPK	0.04927	0.03768	0.01159	1150
5	Fimkassar	OGDCL	Punjab	0.01334	0.01300	0.00034	1250
6	Jakhro	OGDCL	Sindh	0.00796	0.00597	0.00199	845
7	Kal	OGDCL	Punjab	0.00243	0.00229	0.00014	1326
8	Kunar	OGDCL	Sindh	0.07436	0.05493	0.01943	1202
9	Lashari Centre	OGDCL	Sindh	0.00264	0.00264		1120
10	Missa Keswal	OGDCL	Punjab	0.02196	0.02186	0.00010	1220
11	Missan	OGDCL	Sindh	0.00003	0.00003		1078
12	Pali	OGDCL	Sindh				953
13	Pali Deep	OGDCL	Sindh	0.00002	0.00002		
14	Pasakhi/Pasakhi NE	OGDCL	Sindh	0.01070	0.00838	0.00232	1334
15	Rajian	OGDCL	Punjab	0.01236	0.00405	0.00831	1335
16	Sono	OGDCL	Sindh	0.00289	0.00289		1553
17	Tando Alam	OGDCL	Sindh	0.00304	0.00304		1346
18	Thora	OGDCL	Sindh	0.00256	0.00256		1040
19	Toot	OGDCL	Punjab	0.05864	0.05833	0.00031	1127
20	Bhangali	OPL	Punjab	0.01665	0.00928	0.00737	1319
21	Dhurnal	OPL	Punjab	0.15153	0.13215	0.01938	1288
22	Jhandial	POL	Punjab	0.29206	0.00453	0.28753	1105
23	Dhulian	POL	Punjab	0.22602	0.22005	0.00597	1240
24	Meyal	POL	Punjab	0.28713	0.28337	0.00376	1265
25	Pariwali	POL	Punjab	0.09490	0.08678	0.00812	1141
26	Pindori	POL	Punjab	0.07888	0.07289	0.00599	1219

Contd.....

Associated Gas Reserves (Contd.)

Unit: Trillion Cubic Feet

S. No.	Associated Gasfields	Operator Company	Province	Original Recoverable Reserves	Cumulative Production	Balance Recoverable Reserves	Heating Value Btu/cu. ft
27	Turkwal	POL	Punjab	0.00404	0.00370	0.00034	1258
28	Dhok Sultan	PPL	Sindh	0.00127		0.00127	1300
29	Ali Zaur	UEPL	Sindh	0.00196	0.00196		1513
30	Aassu	UEPL	Sindh	0.00049	0.00049		
31	Bachal	UEPL	Sindh	0.00234	0.00229	0.00005	1034
32	Bijoro	UEPL	Sindh	0.00012	0.00012		
33	Bukhari North	UEPL	Sindh	0.00133	0.00096	0.00037	1045
34	Dabhi	UEPL	Sindh	0.03264	0.03264		1017
35	Dabhi North	UEPL	Sindh	0.00116	0.00095	0.00020	907
36	Dabhi South	UEPL	Sindh	0.01677	0.01670	0.00007	1064
37	Dang	UEPL	Sindh	0.00001	0.00001		1000
38	Dhani	UEPL	Sindh	0.00046	0.00006	0.00040	1048
39	Duphri	UEPL	Sindh	0.00942	0.00942		1024
40	Gharo	UEPL	Sindh	0.00034	0.00034		
41	Ghungro	UEPL	Sindh	0.00182	0.00182		
42	Gormani	UEPL	Sindh	0.00153	0.00026	0.00127	821
43	Gulsher	UEPL	Sindh	0.00003	0.00003		
44	Guni	UEPL	Sindh	0.00006	0.00006		1098
45	Halipota	UEPL	Sindh	0.00817	0.00482	0.00335	1061
46	Jan	UEPL	Sindh	0.00001	0.00001		
47	Jagir	UEPL	Sindh	0.00227	0.00223	0.00004	1184
48	Jhaberi South	UEPL	Sindh	0.00491	0.00491		999
49	Khaskheli	UEPL	Sindh	0.00934	0.00934		1129
50	Khaskheli DT	UEPL	Sindh	0.00009	0.00009		
51	Laghari	UEPL	Sindh	0.00697	0.00697		
52	Liari	UEPL	Sindh	0.00304	0.00304		1172
53	Mazari	UEPL	Sindh	0.01564	0.01441	0.00123	989
54	Mazari South	UEPL	Sindh	0.00523	0.00482	0.00040	1071
55	Mazari South Deep	UEPL	Sindh	0.00758	0.00522	0.00236	1106
56	Mohano	UEPL	Sindh	0.00062	0.00010	0.00051	
57	Murid	UEPL	Sindh	0.00030	0.00030		
58	Meyun Ismail Deep	UEPL	Sindh	0.04169	0.04097	0.00072	1050
59	Nari	UEPL	Sindh	0.01009	0.00805	0.00204	996
60	Rahim North	UEPL	Sindh	0.00457	0.00455	0.00002	882
61	Rawat	UEPL	Sindh	0.00014	0.00014		1174
62	Sakhi	UEPL	Sindh	0.00864	0.00864		1283
63	Saleh	UEPL	Sindh	0.00333	0.00145	0.00188	1279
64	Shekhano	UEPL	Sindh	0.00730	0.00730		1090
65	Shekhano Deep	UEPL	Sindh	0.00005	0.00005		
66	Sukhi	UEPL	Sindh	0.00031	0.00031		1051
67	Sukhi South	UEPL	Sindh	0.00004	0.00004		
68	Tajedi	UEPL	Sindh	0.00016	0.00016		
69	Tangri	UEPL	Sindh	0.00588	0.00538	0.00050	1102
70	Umar-2	UEPL	Sindh	0.00223	0.00189	0.00034	1157
71	Akri North	UEPL	Sindh	0.00088	0.00088		
72	Bari	UEPL	Sindh	0.00122	0.00122		1052
73	Keyhole G	UEPL	Sindh	0.00008	0.00008		
74	Meyun Ismail	UEPL	Sindh	0.00072	0.00072		1061
75	Muban	UEPL	Sindh	0.00229	0.00229		
76	Paniro	UEPL	Sindh	0.00064	0.00064		1033
77	Rajo	UEPL	Sindh	0.00005	0.00005		
TOTAL: TCF				2.020593	1.39959	0.62100	
Normalized TCF at 900 Btu/cu.ft.				2.13699	1.63409	0.50290	
Million TOE				45.91	35.10	10.80	

Source: DGPC.

Table: 3.2

NATURAL GAS PRODUCTION BY TYPE/PROVINCE

		Unit: Million CFT TOE						
Type/Province	Province	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
NON-ASSOCIATED:*	Balochistan	277,128 5,150,063	298,800 5,019,288	312,245 5,564,494	325,696 5,727,009	310,535 5,359,937	302,530 5,010,439	1.8%
	KPK	133,081 3,386,208	129,847 3,315,229	138,163 3,536,674	143,153 3,798,024	150,004 3,966,985	154,933 4,099,471	3.1%
	Punjab	57,368 1,295,891	45,342 1,064,109	44,176 1,068,024	44,867 1,147,055	49,527 1,290,284	45,055 1,168,471	-4.7%
	Sindh	1,005,691 20,587,634	973,619 20,108,458	970,708 19,830,549	944,775 19,152,784	933,841 18,868,313	918,687 18,616,531	-1.8%
Non-Associated Gas Total:		1,473,269 30,419,795	1,447,606 29,507,084	1,465,292 29,999,740	1,458,490 29,824,872	1,443,907 29,485,519	1,421,205 28,894,911	-0.7%
ASSOCIATED:**	KPK	2,048 40,542	1,361 37,282	1,092 21,624	964 19,085	1,174 23,243	2,158 59,126	1.1%
	Punjab	5,882 172,766	5,150 152,279	5,176 156,512	4,601 139,148	4,053 119,887	3,902 112,512	-7.9%
	Sindh	12,309 319,075	11,643 308,993	9,991 267,128	7,801 205,630	9,803 243,926	9,282 267,587	-5.5%
Associated Gas Total:		20,239 532,382	18,154 498,553	16,259 445,263	13,365 363,863	15,030 387,055	15,341 439,225	-5.4%
Total:		1,493,508 30,952,177	1,465,760 30,005,637	1,481,551 30,445,003	1,471,855 30,188,735	1,458,936 29,872,574	1,436,546 29,334,136	-0.8%
Of which:	Balochistan	277,128 5,150,063	298,800 5,019,288	312,245 5,564,494	325,696 5,727,009	310,535 5,359,937	302,530 5,010,439	1.8%
	KPK	135,129 3,426,749	131,207 3,352,511	139,255 3,558,298	144,116 3,817,109	151,178 3,990,228	157,091 4,158,597	3.1%
	Punjab	63,250 1,468,656	50,492 1,468,657	49,352 1,224,535	49,467 1,286,203	53,580 1,410,171	48,957 1,280,984	-5.0%
	Sindh	1,018,000 20,906,708	985,262 20,906,709	980,699 20,097,677	952,576 19,358,414	943,644 19,112,238	927,968 18,884,118	-1.8%
Annual growth rate of Total		-0.82%	-1.86%	1.08%	-0.65%	-0.88%	-1.53%	

Source: DGPC.

* See table 3.4 for details.

** See table 3.4.1 for details.

Table: 3.3

NATURAL GAS PRODUCTION BY COMPANY							
Company	Unit: Million Cft						ACGR
	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	
OPPL	104,570 1,997,287	64,657 1,234,956	45,164 862,631	39,039 741,750	24,203 462,287	14,216 272,953	-32.9%
Dewan Petroleum	6,684 159,754	5,491 131,231	4,517 107,950	3,837 91,701	3,068 73,329	2,644 63,192	-16.9%
ENI	178,612 3,640,678	158,405 3,222,705	134,997 2,737,206	97,733 1,979,785	85,132 1,700,830	83,230 1,695,771	-14.2%
Hycarbex	4,063 76,786	1,298 24,527					
MPCL	216,448 3,814,049	225,094 3,982,406	233,468 4,152,827	245,706 4,383,421	260,594 4,655,540	260,007 4,635,184	3.7%
MOL	104,838 2,620,000	96,679 2,401,621	102,879 2,579,778	107,713 2,838,572	117,311 3,082,154	117,866 3,095,907	2.4%
OGDCL	427,579 8,245,996	426,472 7,920,402	408,724 7,690,521	415,403 7,743,511	418,812 7,824,847	419,367 7,789,764	-0.4%
OMV	112,980 2,668,640	102,638 2,441,247	99,414 2,220,445	72,954 1,594,225	50,976 1,112,684	44,896 1,074,369	-16.9%
OPL	3,431 89,592	2,734 69,650	5,052 129,673	2,385 63,792	2,188 58,732	1,503 40,531	-15.2%
PEL	7,133 101,601	6,842 111,013	7,887 130,428	10,116 163,673	10,088 161,520	8,768 136,544	4.2%
OMV Maurice	6,515 162,566	12,481 322,970	5,709 146,720	4,842 124,441	6,456 167,082	8,110 204,966	4.5%
POGC	3,726 75,256	3,554 70,726	3,198 63,644	6,105 126,966	11,118 231,422	11,613 257,852	25.5%
POL	5,358 153,779	4,408 129,795	4,084 122,135	3,447 102,450	5,057 142,281	5,379 148,606	0.1%
PPL	236,445 5,417,040	232,737 5,121,596	242,057 5,464,660	280,136 6,210,815	280,744 6,224,739	277,420 6,088,923	3.2%
UEPL	75,126 1,729,153	122,270 2,820,792	184,400 4,036,386	182,438 4,023,633	183,188 3,975,127	181,527 3,829,574	19.3%
Total: Million Cft	1,493,508	1,465,760	1,481,551	1,471,855	1,458,936	1,436,546	-0.77%
TOE	30,952,177	30,005,637	30,445,003	30,188,735	29,872,574	29,334,136	
Million Cft/Day	4,092	4,016	4,048	4,032	3,997	3,936	

Source: DGPC.

Table: 3.4

NON-ASSOCIATED GAS PRODUCTION BY FIELD

Unit: Million CFt
TOE

Field (Province)	Operator	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Zamzama (Sindh)	OPPL	104,570	64,657	45,164	39,039	24,203	14,216	-32.9%
		1,997,287	1,234,956	862,631	741,750	462,287	272,953	
Kadanwari (Sindh)	Eni (Pak)	52,472	38,838	23,775	15,344	12,684	22,856	-15.3%
		1,107,159	819,481	501,652	323,755	266,364	482,260	
Bhit & Badhra (Sindh)	Eni (Pak)	124,958	119,522	111,222	82,390	72,448	60,374	-13.5%
		2,511,656	2,402,392	2,235,554	1,656,030	1,434,466	1,213,511	
Lundali (Sindh)	Eni (Pak)	1,182	45	-	-	-	-	
		21,863	833					
Haseeb (Sindh)	Hycarbex	4,063	1,298	-	-	-	-	
		76,786	24,527					
Aqeeq (Sindh)	MPCL	-	-	-	-	957	903	
						23,629	22,293	
Halini (Punjab)	MPCL	100	331	299	251	230	157	9.5%
		2,336	7,739	6,988	5,881	5,375	3,679	
Halini Deep (Punjab)	MPCL	-	-	65	541	543	438	
				1,517	12,668	12,701	10,260	
Kalabagh (Punjab)	MPCL	-	-	-	98	1,920	1,411	
					2,283	44,935	33,023	
Mari (Sindh)	MPCL	212,259	216,685	221,386	231,143	243,403	245,668	3.0%
		3,714,530	3,791,986	3,874,253	4,045,005	4,259,559	4,299,184	
Koonj (Sindh)	MPCL	628	518	396	336	268	187	-21.5%
		13,063	10,769	8,235	6,993	5,564	3,893	
Sujawal (Sindh)	MPCL	3,462	3,747	2,895	2,736	1,528	635	-28.8%
		84,119	91,056	70,351	66,474	37,134	15,420	
Sujjal (Sindh)	MPCL	-	391	4,149	6,054	5,726	5,205	
			9,663	102,470	149,533	141,438	128,572	
Zarghun South (Balochistan)	MPCL	-	3,423	4,279	4,547	6,020	5,403	
			71,194	89,012	94,584	125,206	118,861	
Makori (KPK)	MOL	1,206	735	322	288	298	177	-31.9%
		31,359	19,110	8,585	7,643	7,898	4,698	
Makori Deep (KPK)	MOL	-	-	-	-	2,259	1,992	
						60,544	53,379	
Makori East (KPK)	MOL	14,255	23,317	28,329	30,654	29,347	28,397	14.8%
		333,559	545,627	662,890	858,326	821,726	795,121	
Mardankhel (KPK)	MOL	-	-	-	8,709	13,377	15,896	
					229,927	353,155	419,661	
Manzalai (KPK)	MOL	36,480	25,816	17,038	13,149	10,710	8,206	-25.8%
		897,411	635,080	425,941	319,516	260,256	199,403	
Mamikhel (KPK)	MOL	17,844	12,286	11,010	9,350	8,148	7,590	-15.7%
		456,808	314,516	286,252	243,087	211,859	197,335	
Maramzai (KPK)	MOL	35,053	34,525	46,182	45,563	49,003	50,036	7.4%
		900,862	887,288	1,196,110	1,180,072	1,269,180	1,295,924	
Tolanj (KPK)	MOL	-	-	-	-	1,861	2,146	
						43,544	50,225	
Tolanj West (KPK)	MOL	-	-	-	-	2,307	3,426	
						53,990	80,161	
Bahu (Punjab)	OGDCL	9,916	4,812	2,126	591	278	106	-59.7%
		125,936	49,564	23,602	6,556	3,087	1,174	
Baloch (Sindh)	OGDCL	619	234	471	495	-	-	
		16,947	6,409	12,908	13,568			
Bitrism (Sindh)	OGDCL	-	-	-	-	-	223	
							6,568	
Bobi (Sindh)	OGDCL	5,895	5,066	2,117	1,970	2,043	2,113	-18.6%
		183,329	157,555	59,698	55,548	57,617	65,713	
Chak 2 (Sindh)	OGDCL	2,835	1,874	3,035	6,980	6,970	6,247	17.1%
		76,275	50,423	81,635	187,757	187,484	168,057	
Chak 7A (Sindh)	OGDCL	418	288	205	220	156	106	-24.0%
		11,758	8,089	5,758	6,194	4,387	2,990	
Chak 63 (Sindh)	OGDCL	-	353	1,749	2,257	487	7	
			10,206	50,534	65,219	14,075	203	

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Non-Associated Gas Production (contd.)

Unit: Million CFT
TOE

Field (Province)	Operator	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Chak 63 SE (Sindh)	OGDCL	-	-	1,078 20,374	1,235 23,340	810 15,300	801 24,109	
Chak 66NE (Sindh)	OGDCL	-	555 16,978	26 490	289 5,551	-	-	
Chandio (Sindh)	OGDCL	-	-	-	-	164 3,568	77 2,157	
Chhutto (Sindh)	OGDCL	-	-	-	-	117 2,943	2,817 73,811	
Dakhni (Punjab)	OGDCL	17,076 433,730	11,833 298,204	9,180 233,179	8,802 223,561	8,083 205,311	6,852 174,029	-16.7%
Daru (Sindh)	OGDCL	-	-	-	-	497 13,856	-	
Dachrapur (Sindh)	OGDCL	1,349 29,950	3,820 84,814	3,100 68,821	1,817 40,342	2,069 45,936	1,000 22,201	-5.8%
Dhodak (Punjab)	OGDCL	1,716 46,858	1,346 27,189	1,198 32,711	1,205 32,883	1,206 32,924	1,096 29,932	-8.6%
Dars (Sindh)	OGDCL	-	-	-	429 8,630	2,534 50,934	1,795 46,128	
Dars West (Sindh)	OGDCL	-	-	-	727 14,615	3,201 64,343	3,060 76,206	
Dars Deep (Sindh)	OGDCL	-	-	-	971 19,808	2,796 57,032	2,250 58,725	
Gopang (Sindh)	OGDCL	2 60	38 1,149	-	-	-	-	
Hakeem Daho (Sindh)	OGDCL	-	1,234 30,979	4,472 112,259	1,483 37,218	2,526 63,410	3,200 80,318	
Jand (Punjab)	OGDCL	-	-	-	-	-	474 10,866	
Kunar South (Sindh)	OGDCL	-	-	-	-	3,331 84,604	4,666 118,509	
Loti (Balochistan)	OGDCL	8,187 163,741	7,752 155,818	8,709 175,055	9,972 199,442	9,379 187,583	9,150 183,008	2.2%
Maru-Reti (Sindh)	OGDCL	1,781 41,670	4,208 98,471	4,923 115,205	3,740 70,308	3,638 68,389	4,051 76,151	17.9%
Kunar West (Sindh)	OGDCL	-	-	-	1,217 29,946	3,711 91,302	3,322 81,732	
Mela (KPK)	OGDCL	4,038 112,662	3,772 105,232	4,706 131,287	2,877 80,266	2,377 66,311	3,054 85,218	-5.4%
Moolan (Sindh)	OGDCL	-	-	-	-	509 16,399	51 1,399	
Nashpa (KPK)	OGDCL	24,205 653,546	29,395 808,376	30,578 825,609	32,562 879,186	30,316 818,520	34,013 918,345	7.0%
Nandpur/Panjpir (Punjab)	OGDCL	4,181 15,471	3,179 17,167	3,887 14,381	3,425 18,493	3,045 16,442	2,728 14,734	-8.2%
Nim (Sindh)	OGDCL	-	314 9,237	422 12,396	171 5,033	96 2,814	170 5,007	
Noorai Jagir (Sindh)	OGDCL	357 10,255	-	1,369 36,974	645 17,402	217 5,848	108 3,095	-21.3%
Nur/Bagla (Sindh)	OGDCL	2,842 68,787	1,976 47,814	1,422 41,801	964 28,331	785 23,067	1,946 57,203	-7.3%
Pakhro (Sindh)	OGDCL	240 5,721	41 953	-	-	21 491	-	-100.0%
Pasakhi Deep/Kunar (Sindh)	OGDCL	41,357 885,030	41,503 888,171	37,781 808,508	38,927 833,037	38,237 818,277	49,910 1,068,066	3.8%
Pirkoh (Balochistan)	OGDCL	5,426 110,700	5,299 110,210	4,367 138,885	3,486 110,853	2,568 53,421	1,574 32,729	-21.9%
Pasakhi East (Sindh)	OGDCL	-	-	-	947 22,928	3,320 80,344	2,970 71,868	
Pasakhi WD (Sindh)	OGDCL	-	-	-	228 6,220	-	-	

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Non-Associated Gas Production (contd.)

Unit: Million CFT
TOE

Field (Province)	Operator	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Qadirpur (Sindh)	OGDCL	180,792 3,832,786	155,453 3,295,599	134,180 2,844,611	122,798 2,603,313	110,259 2,337,489	99,083 2,100,566	-11.3%
Resham (Sindh)	OGDCL	-	-	-	-	573 15,642	111 3,213	
Sadkal (Punjab)	OGDCL	519 14,844	622 17,220	502 14,348	597 17,086	643 18,394	533 14,761	0.5%
Sari/Hundi (Sindh)	OGDCL	766 16,089	607 12,445	449 9,419	466 9,792	525 11,029	477 9,789	-9.0%
Soghri (Sindh)	OGDCL	-	861 21,607	3,251 81,600	3,092 77,611	2,647 66,429	2,350 58,978	
Shah (Sindh)	OGDCL	-	-	-	1,268 38,792	3,823 116,990	3,734 114,268	
Tando Allah Yar (Sindh)	OGDCL	-	-	-	957 20,295	4,657 98,734	3,170 67,195	
Thal West (Sindh)	OGDCL	-	-	-	-	-	48 1,068	
Thora Deep (Sindh)	OGDCL	-	-	-	2,564 62,810	3,415 83,656	1,823 44,654	
Unar (Sindh)	OGDCL	-	-	-	1,052 25,993	3,640 89,917	2,549 62,960	
Uch (Balochistan)	OGDCL	104,485 1,170,226	129,778 1,310,761	134,648 1,508,056	145,966 1,634,823	144,553 1,618,991	145,996 1,474,561	6.9%
Miano (Sindh)	OMV/UEP Beta	23,121 547,968	25,606 611,972	35,811 780,680	28,261 624,567	17,526 387,328	15,644 372,320	-7.5%
Latif (Sindh)	OMV/UEP Beta	36,192 854,131	37,134 876,367	31,559 744,792	19,879 433,363	13,114 285,887	13,348 320,348	-18.1%
Tajjal (Sindh)	OMV/UEP Beta	4,272 100,819	2,239 52,831	1,411 33,300	1,066 23,348	730 15,995	398 9,542	-37.8%
Sawan (Sindh)	OMV/UEP Beta	49,395 1,165,722	37,660 900,076	30,633 661,673	23,748 512,948	19,605 423,473	15,507 372,158	-20.7%
Ahmad (Sindh)	UEPL	-	-	0 3	-	-	-	
Ali (Sindh)	UEPL	1,153 28,701	999 24,864	1,181 29,401	802 20,381	3,588 91,136	794 20,159	-7.2%
Rahim (Sindh)	UEPL	-	886 29,768	594 19,947	378 12,697	239 8,015	2,629 63,098	
Rahim 2X (Sindh)	UEPL	-	98 2,292	148 3,467	225 4,752	107 2,261	12 246	
Rajani (Sindh)	UEPL	-	4,666 105,443	50,421 1,139,522	68,752 1,629,413	61,760 1,463,709	52,039 1,233,326	
Ratana (Punjab)	OPL	3,263 84,507	2,585 64,890	4,643 116,541	2,089 54,320	1,962 51,791	1,309 34,559	-16.7%
Block-22 (Sindh)	PEL	2,422 37,049	2,617 53,135	3,390 68,817	3,800 77,139	3,532 71,703	2,489 50,523	0.6%
Badar (Sindh)	PEL	4,712 64,552	4,225 57,878	4,497 61,611	6,316 86,533	6,556 89,817	6,279 86,021	5.9%
Rehman (Sindh)	POGC	3,726 75,256	3,554 70,726	3,198 63,644	3,364 66,936	6,491 129,180	6,037 134,635	10.1%
Rizq (Sindh)	POGC	-	-	-	2,741 60,030	4,626 102,242	5,575 123,218	
Bela (Punjab)	POL	134 3,266	63 1,521	-	53 1,294	-	-	-100.0%
Domial (Punjab)	POL	216 5,049	-	-	-	-	-	
Jhandial (Punjab)	POL	-	-	-	-	2,085 55,875	2,445 64,548	
Mehar (Sindh)	OMV M./UEP Alpha	4,216 108,782	11,042 289,305	5,709 146,720	4,842 124,441	3,567 91,667	2,998 77,346	-6.6%
Mitha (Sindh)	OMV M./UEP Alpha	-	-	-	-	-	2,136 50,848	

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Non-Associated Gas Production (contd.)

Unit: Million CFT
TOE

Field (Province)	Operator	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Saqib (Sindh)	OMV M./UEP Alpha	2,298 53,784	1,439 33,665	-	-	-	-	
Sofiya (Sindh)	OMV M./UEP Alpha	-	-	-	-	2,889 75,415	2,976 76,772	
Adhi (Punjab)	PPL	13,562 404,139	15,080 449,385	17,760 516,806	23,379 680,329	26,465 770,122	25,335 724,581	13.3%
Adam (Sindh)	PPL	3,778 104,652	4,158 87,312	1,355 28,456	1,332 27,972	1,352 28,400	1,706 35,826	-14.7%
Adam West (Sindh)	PPL	-	-	5,060 118,902	5,207 122,365	5,223 122,729	4,880 114,680	
Chachar (Sindh)	PPL	1,186 22,180	731 13,605	1,106 20,674	1,077 20,140	941 17,598	917 17,148	-5.0%
Kabir (Sindh)	PPL	-	-	-	-	215 6,096	545 15,478	
Kandhkot (Sindh)	PPL	56,802 1,130,362	58,363 1,155,582	52,709 1,033,091	68,227 1,337,249	75,611 1,481,970	75,584 1,481,446	5.9%
Kinza (Sindh)	PPL	-	120 2,544	175 3,706	-	-	10 212	
Mazarani (Sindh)	PPL	2,088 50,311	1,737 41,863	1,512 36,434	1,542 37,162	1,641 39,542	1,435 34,584	-7.2%
Shahdad (Sindh)	PPL	-	-	2,141 53,106	2,661 65,993	3,473 86,122	5,524 136,995	
Sui (Balochistan)	PPL	159,030 3,705,395	152,548 3,371,304	160,241 3,653,485	161,724 3,687,307	148,015 3,374,735	140,407 3,201,280	-2.5%
Sharf (Sindh)	PPL	-	-	-	14,987 232,299	17,810 297,423	21,077 326,694	
Rodho (Punjab)	Dewan Pet.	6,684 159,754	5,491 131,231	4,517 107,950	3,837 91,701	3,068 73,329	2,644 63,192	-16.9%
Amdani (Sindh)	UEPL	3 49	-	-	-	-	-	
Babarki (Sindh)	UEPL	-	-	-	-	758 18,720	33 807	
Bago (Sindh)	UEPL	-	-	-	-	148 3,071	1 12	
Bakhsh Deep (Sindh)	UEPL	2,943 63,283	5,144 110,598	2,286 49,156	29 618	139 2,979	-	
Baudero (Sindh)	UEPL	-	-	-	-	-	875 20,029	
Bhatti (Sindh)	UEPL	322 8,458	284 7,417	184 4,815	87 2,277	143 3,723	61 1,586	-28.3%
Baqar Deep (Sindh)	UEPL	-	0 8	-	-	-	-	
Bhanoki (Sindh)	UEPL	-	-	157 3,496	1,584 41,032	-	-	
Bilal (Sindh)	UEPL	-	-	13 276	5 120	-	-	
Bukhari Deep (Sindh)	UEPL	713 18,333	441 11,321	236 6,076	1,182 29,787	2,743 69,121	881 22,202	4.3%
Bukhari North (Sindh)	UEPL	-	-	-	-	-	960 23,906	
Buzdar South (Sindh)	UEPL	67 1,516	52 1,178	-	-	424 9,542	42 945	-9.0%
Buzdar South Deep (Sindh)	UEPL	5,776 135,730	3,835 90,131	1,902 44,694	850 22,024	998 25,856	329 8,516	-43.6%
Chaman (Sindh)	UEPL	-	-	-	1,639 39,657	453 10,968	95 2,302	
Dhani (Sindh)	UEPL	-	56 1,393	3 82	-	-	-	

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Non-Associated Gas Production (contd.)

Unit: Million CFT
TOE

Field (Province)	Operator	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Dang (Sindh)	UEPL	-	-	-	6 143	-	-	
Fateh Shah North (Sindh)	UEPL	230 5,790	249 6,272	32 817	98 2,517	-	7 179	-50.3%
Gagani (Sindh)	UEPL	91 1,962	-	-	-	-	-	
Golarchi (Sindh)	UEPL	295 7,174	123 2,984	79 1,919	217 5,377	31 779	32 785	-36.0%
Gormani (Sindh)	UEPL	-	-	-	-	-	259 5,079	-5.1%
Guni (Sindh)	UEPL	-	-	-	-	-	59 1,545	-29.4%
Haider Deep (Sindh)	UEPL	54 1,268	41 971	21 493	10 229	22 510	16 382	-21.2%
Hakro (Sindh)	UEPL	-	-	-	-	633 16,702	8 214	
Hayat (Sindh)	UEPL	-	-	-	-	-	1,577 43,359	
Khaskeli North (Sindh)	UEPL	25 705	-	-	-	-	-	
Liari Deep (Sindh)	UEPL	68 1,851	42 1,159	10 275	2 44	28 755	-	-100.0%
Lodano (Sindh)	UEPL	1,879 47,735	1,015 25,789	470 12,465	514 12,965	98 2,460	62 1,565	-49.4%
Lodano Deep (Sindh)	UEPL	2,330 56,614	267 6,476	210 5,469	136 3,447	116 2,927	68 1,714	-50.7%
Limu (Sindh)	UEPL	-	309 7,692	24 608	-	-	-	
Limu North (Sindh)	UEPL	-	-	2,467 67,114	1,535 37,914	25 625	-	
Limu East (Sindh)	UEPL	-	-	5 141	4 90	0 2	-	
Jabo (Sindh)	UEPL	182 3,977	112 2,437	70 1,532	57 1,242	36 791	28 615	-31.1%
Jalal (Sindh)	UEPL	614 15,106	0 1	-	-	-	-	
Jarar Deep (Sindh)	UEPL	4,345 104,277	3,261 78,260	190 4,854	79 2,018	19 479	-	
Jhok (Sindh)	UEPL	67 1,752	0 1	-	-	-	-	
Kamal North (Sindh)	UEPL	499 15,454	637 19,746	561 17,404	387 11,658	313 9,412	269 8,101	-11.6%
Kausar (Sindh)	UEPL	1,006 22,845	832 18,896	574 13,032	550 12,484	478 10,847	528 11,989	-12.1%
Malah (Sindh)	UEPL	52 1,436	0 9	-	-	-	-	
Mewa (Sindh)	UEPL	189 4,674	46 1,137	-	-	-	-	
Mohri (Sindh)	UEPL	-	-	-	-	1,370 36,724	18 483	
Moroja (Sindh)	UEPL	-	-	-	-	-	2,488 64,433	
Naimat Basal (Sindh)	UEPL	2,040 48,968	1,308 31,396	989 23,746	791 18,993	588 14,109	543 13,030	-23.3%
Naimat Basal 2X (Sindh)	UEPL	-	254 7,964	147 4,597	157 4,916	76 2,373	61 1,907	
Naimat West (Sindh)	UEPL	13,253 238,560	15,255 274,598	41,754 751,577	44,088 780,355	36,251 641,649	39,795 704,371	24.6%
Nando (Sindh)	UEPL	7 194	169 4,476	36 954	23 628	-	-	

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Non-Associated Gas Production (contd.)

Unit: Million CFT
TOE

Field (Province)	Operator	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Jogwani (Sindh)	UEPL	836 19,567	311 7,286	78 1,828	7 173	-	-	-100.0%
Kato (Sindh)	UEPL	30 883	13 364	55 1,596	75 2,257	70 2,134	54 1,633	12.2%
Khorewah (Sindh)	UEPL	2,055 53,835	2,269 59,441	1,399 36,657	979 26,438	977 26,384	681 18,399	-19.8%
Khorewah Deep (Sindh)	UEPL	477 11,914	171 4,275	53 1,333	48 1,237	33 863	25 634	-44.7%
Koli (Sindh)	UEPL	145 3,514	72 1,747	50 1,221	-	-	-	
Korai (Sindh)	UEPL	-	5,887 143,061	4,549 115,996	1,168 30,591	2,237 58,603	364 9,526	
Korai North (Sindh)	UEPL	-	-	1 35	-	-	-	
Kumbh (Sindh)	UEPL	-	-	660 15,771	402 8,879	124 2,729	43 942	
Mahi (Sindh)	UEPL	-	-	4 95	45 1,114	10 251	-	
Makh'pur & Deep (Sindh)	UEPL	377 8,858	404 9,497	424 9,963	355 9,335	19 491	768 20,203	15.3%
Makrani (Sindh)	UEPL	-	-	-	179 4,932	0 5	-	
Malkani (Sindh)	UEPL	-	-	-	11 314	23 620	-	
Matli (Sindh)	UEPL	40 983	20 476	9 218	-	-	20 490	-13.0%
Missri (Sindh)	UEPL	53 962	42 755	29 517	17 310	10 174	1 13	-57.5%
Mohib (Sindh)	UEPL	-	-	-	1,049 24,538	181 4,232	-	
Mor (Sindh)	UEPL	-	-	-	94 2,092	-	-	
Mulaki (Sindh)	UEPL	212 5,549	-	-	-	-	-	
Nurpur Deep (Sindh)	UEPL	558 13,064	379 8,790	297 6,883	137 3,156	6 148	4 82	-63.6%
Oderolal (Sindh)	UEPL	-	-	-	-	1,222 33,120	-	
Pir (Sindh)	UEPL	3 63	0 9	-	-	-	-	
Piaro Deep (Sindh)	UEPL	401 9,381	244 6,427	231 6,083	100 2,751	71 1,956	53 1,463	-33.2%
Piaro Deep Basal (Sindh)	UEPL	-	-	1,097 26,559	263 6,611	494 12,410	374 9,377	
Qasim Deep (Sindh)	UEPL	3,187 71,391	1,545 34,614	1,084 24,291	539 12,067	342 7,652	156 3,502	-45.3%
Ragni Deep (Sindh)	UEPL	30 666	224 4,905	168 3,674	117 2,569	36 791	-	
Rahim North (Sindh)	UEPL	1,758 37,095	367 7,750	39 828	10 207	57 1,196	37 779	-53.8%
Rajpari (Sindh)	UEPL	1 42	-	-	-	-	-	
Ramdiani (Sindh)	UEPL	-	-	-	-	-	158 3,781	
Rawal (Sindh)	UEPL	-	-	-	-	-	232 6,197	
Roshnai (Sindh)	UEPL	-	-	-	-	639 18,208	1,448 41,281	

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Non-Associated Gas Production (contd.)

Unit: Million Cft
TOE

Field (Province)	Operator	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Sahu (Sindh)	UEPL	-	-	26	6	8	1	
				635	158	197	19	
Saman (Sindh)	UEPL	-	19	16	0	-	-	
			442	382	10			
Sajan (Sindh)	UEPL	-	-	863	291	1,007	1,391	
				21,222	7,440	25,772	35,597	
Salamat (Sindh)	UEPL	-	1,978	11,690	10,667	10,275	9,930	
			46,493	274,722	256,004	246,606	238,313	
Shekhano (Sindh)	UEPL	40	125	42	27	42	39	-0.1%
		949	3,007	1,015	715	1,090	1,022	
Siraj South (Sindh)	UEPL	-	-	-	9	0	-	
					214	11		
Sonro (Sindh)	UEPL	586	528	880	247	207	151	-23.7%
		13,350	12,037	20,055	6,590	5,535	4,030	
Sohrab Deep (Sindh)	UEPL	3,583	41,408	23,220	14,432	8,258	6,874	13.9%
		87,437	1,010,363	566,572	378,114	216,369	180,089	
Suhrat (Sindh)	UEPL	-	339	379	217	-	-	
			8,227	9,211	5,545			
Sumar Deep (Sindh)	UEPL	5,434	4,241	1,641	1,189	1,036	824	-31.4%
		142,904	111,529	43,161	32,925	28,697	22,829	
Sutiari Deep (Sindh)	UEPL	2,543	9,186	17,629	18,847	36,714	47,936	79.9%
		43,223	156,155	299,685	326,047	635,152	829,285	
Tangri Deep (Sindh)	UEPL	834	453	326	100	73	71	-38.9%
		21,107	11,228	8,093	2,661	1,938	1,879	
Tharo (Sindh)	UEPL	-	377	2,573	1,637	881	535	
			9,472	64,588	40,593	21,840	13,262	
Tharo West (Sindh)	UEPL	-	-	-	-	609	45	
						15,968	1,171	
Thebo (Sindh)	UEPL	576	1,102	696	340	250	269	-14.1%
		15,270	29,193	18,439	8,748	6,429	6,926	
Turk (Sindh)	UEPL	700	610	726	564	527	492	-6.8%
		18,607	16,223	19,388	15,341	14,332	13,374	
Turk Deep (Sindh)	UEPL	3,627	3,446	2,082	1,114	1,010	972	-23.2%
		94,671	89,945	54,960	29,523	26,774	25,760	
Umar (Sindh)	UEPL	-	700	1,616	626	527	102	
			19,035	43,964	17,024	14,335	2,773	
Usman (Sindh)	UEPL	1,469	1,293	955	340	-	-	
		33,347	29,347	21,669	7,708			
Warar (Sindh)	UEPL	-	-	-	-	-	55	
							1,371	
Wasayo (Sindh)	UEPL	-	-	465	-	-	-	
				12,894				
Zaur West (Sindh)	UEPL	-	-	18	3	-	-	
				481	87			
Others* (Sindh)	UEPL	876	731	568	334	389	200	-25.6%
		21,902	18,266	14,191	8,361	9,717	4,994	
Total:		1,473,269	1,447,606	1,465,292	1,458,490	1,443,907	1,421,205	-0.7%
		30,419,795	29,507,084	29,999,740	29,824,872	29,485,519	28,894,911	
Annual growth rate		-0.96%	-1.74%	1.22%	-0.46%	-1.00%	-1.57%	

* Others include Paniro & Tando Ghulam Ali.
Source: DGPC.

Table: 3.4.1
Associated Gas Production By Field

		Unit: Million CFT						
Field (Province)	Operator	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Chanda (KPK)	OGDCL	2,048	1,361	1,092	964	1,174	2,158	1.1%
Bhalsyedian (Punjab)	OGDCL	-	-	-	7	27	24	
Fimkassar (Punjab)	OGDCL	44	39	40	43	38	38	-2.6%
Jakhro (Sindh)	OGDCL	1,285	1,644	1,563	464	559	465	-18.4%
Kal (Punjab)	OGDCL	26	9	25	20	17	11	-15.4%
Kunar (Sindh)	OGDCL	4,292	6,352	5,104	4,331	3,223	3,014	-6.8%
Lala Jamali (Sindh)	OGDCL	-	-	89	1,098	2,539	2,902	
Missa Keswal (Punjab)	OGDCL	80	53	42	55	44	42	-12.1%
Pasakhi (Sindh)	OGDCL	243	243	243	243	243	243	
Rajjan (Punjab)	OGDCL	265	261	245	414	357	280	1.2%
Toot (Punjab)	OGDCL	292	295	331	372	372	378	5.2%
Bhangali (Punjab)	OPL	-	-	8	10	4	4	
Dhurnal (Punjab)	OPL	168	148	401	286	222	191	2.6%
Balkassar (Punjab)	POL	21	23	21	26	13	12	-11.0%
Dhulian (Punjab)	POL	858	841	843	782	682	641	-5.7%
Khaur (Punjab)	POL	-	-	-	-	-	59	
Meyal (Punjab)	POL	1,047	966	927	777	737	719	-7.2%
Pariwali (Punjab)	POL	2,786	2,206	2,003	1,556	1,299	1,264	-14.6%
Pindori (Punjab)	POL	278	291	272	235	224	221	-4.5%
Turkwal (Punjab)	POL	18	18	18	18	18	18	0.0%
Aassu (Sindh)	UEPL	36	202	128	50	42	30	-3.3%
Akri North (Sindh)	UEPL	16	7	2	2	2	3	-28.3%
Bachal (Sindh)	UEPL	231	59	6	-	-	-	
Bari (Sindh)	UEPL	-	-	-	-	236	421	
Bijoro (Sindh)	UEPL	22	15	8	12	13	21	-0.3%
Dabhi, Dabhi N. (Sindh)	UEPL	206	16	21	11	9	9	-47.0%
Dabhi S. (Sindh)	UEPL	367	175	122	65	221	54	-31.8%
Duphri (Sindh)	UEPL	455	500	92	2	-	-	
Gulsher (Sindh)	UEPL	-	-	-	-	-	32	
Halipota (Sindh)	UEPL	375	169	128	111	302	221	-10.0%
Jagir (Sindh)	UEPL	16	14	8	6	2	3	-26.6%
Jan (Sindh)	UEPL	-	-	3	3	4	3	
Jhaberi South (Sindh)	UEPL	24	14	1	-	-	-	
Khaskeli & Downthrown (Sindh)	UEPL	110	83	87	94	186	214	14.2%
Laghari (Sindh)	UEPL	57	43	4	1	4	6	-37.4%
Mazari (Sindh)	UEPL	115	69	61	58	872	337	24.0%
Mazari S. & S.Deep (Sindh)	UEPL	2,822	498	374	298	200	178	-42.4%
Meyun Ismail Deep (Sindh)	UEPL	449	246	354	316	188	132	-21.7%
Murid (Sindh)	UEPL	27	145	52	23	17	16	-10.4%
Qabul (Sindh)	UEPL	1	-	-	-	-	-	
Sakhi (Sindh)	UEPL	-	-	-	2	46	78	
Sakhi Deep & S. Deep (Sindh)	UEPL	578	449	358	310	211	219	-17.6%
Saleh (Sindh)	UEPL	-	354	935	39	227	227	
Sukhi (Sindh)	UEPL	-	-	-	-	209	100	
Sukhi South (Sindh)	UEPL	-	-	-	-	-	39	
Rawat (Sindh)	UEPL	-	-	-	58	17	27	
Rawat North (Sindh)	UEPL	-	-	-	-	9	25	
Shekhano Deep (Sindh)	UEPL	58	13	5	-	-	-	
Tangri (Sindh)	UEPL	40	24	28	25	24	19	-14.1%
Zaur (Sindh)	UEPL	303	174	142	95	97	106	-18.9%
Zaur Deep (Sindh)	UEPL	88	50	18	38	47	47	-11.8%
Others (Sindh)**	UEPL	93	85	56	44	56	92	-0.3%
Total: Million CFT		20,239	18,154	16,259	13,365	15,030	15,341	-5.4%
TOE		532,382	532,383	532,384	363,863	426,788	439,225	
Annual growth rate		2.70%	-10.30%	-10.44%	-17.80%	12.45%	2.07%	

** Includes Ghungro, Gharo, Mohano and Muban.

Source: DGPC.

Table: 3.4.2

Non-Associated Gas Production By Field

(Arranged according to size of production in MMCFD during 2018-19)

Field (Province)	Operator	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Mari (Sindh)	MPCL	582	594	605	633	667	673	3.3%
Uch (Balochistan)	OGDCL	286	356	368	400	396	400	12.6%
Sui (Balochistan)	PPL	436	418	438	443	406	385	-5.0%
Qadirpur (Sindh)	OGDCL	495	426	367	336	302	271	-11.8%
Kandhkot (Sindh)	PPL	156	160	144	187	207	207	4.7%
Bhit & Badhra (Sindh)	Eni (Pak)	342	327	304	226	198	165	-15.1%
Rajani (Sindh)	UEPL	-	13	138	188	169	143	
Maramzai (KPK)	MOL	96	95	126	125	134	137	22.4%
Pasakhi Deep/Kunar (Sindh)	OGDCL	113	114	103	107	105	137	3.8%
Sutiari Deep (Sindh)	UEPL	7	25	48	52	101	131	79.9%
Naimat West (Sindh)	UEPL	36	42	114	121	99	109	108.7%
Nashpa (KPK)	OGDCL	66	81	84	89	83	93	14.6%
Makori East (KPK)	MOL	39	64	77	84	80	78	38.7%
Adhi (Punjab)	PPL	37	41	49	64	73	69	16.0%
Kadanwari (Sindh)	Eni (Pak)	144	106	65	42	35	63	-12.6%
Sharf (Sindh)	PPL	-	-	-	41	49	58	
Mardankhel (KPK)	MOL	-	-	-	24	37	44	
Miano (Sindh)	OMV/UEP Beta	63	70	98	77	48	43	-9.0%
Sawan (Sindh)	OMV/UEP Beta	135	103	84	65	54	42	-24.7%
Zamzama (Sindh)	OPPL	286	177	123	107	66	39	-37.4%
Latif (Sindh)	OMV/UEP Beta	99	102	86	54	36	37	-3.4%
Salamat (Sindh)	UEPL	-	5	32	29	28	27	
Loti (Balochistan)	OGDCL	22	21	24	27	26	25	0.9%
Manzalai (KPK)	MOL	100	71	47	36	29	22	-33.2%
Mamikhel (KPK)	MOL	49	34	30	26	22	21	-8.1%
Sohrab Deep (Sindh)	UEPL	10	113	63	40	23	19	
Dakhni (Punjab)	OGDCL	47	32	25	24	22	19	-16.6%
Badar (Sindh)	PEL	13	12	12	17	18	17	5.4%
Chak 2 (Sindh)	OGDCL	8	5	8	19	19	17	36.2%
Rehman (Sindh)	POGC	10	10	9	9	18	17	10.1%
Rizq (Sindh)	POGC	-	-	-	8	13	15	
Shahdad (Sindh)	PPL	-	-	6	7	10	15	
Zarghun South (Balochistan)	MPCL	-	9	12	12	16	15	
Sujjal (Sindh)	MPCL	-	1	11	17	16	14	
Adam West (Sindh)	PPL	-	-	14	14	14	13	
Kunar South (Sindh)	OGDCL	-	-	-	-	9	13	
Maru-Reti (Sindh)	OGDCL	5	12	13	10	10	11	17.9%
Shah (Sindh)	OGDCL	-	-	-	3	10	10	
Tolanj West (KPK)	MOL	-	-	-	-	6	9	
Kunar West (Sindh)	OGDCL	-	-	-	3	10	9	
Hakeem Daho (Sindh)	OGDCL	-	3	12	4	7	9	
Tando Allah Yar (Sindh)	OGDCL	-	-	-	3	13	9	
Dars West (Sindh)	OGDCL	-	-	-	2	9	8	
Mela (KPK)	OGDCL	11	10	13	8	7	8	-14.2%
Mehar (Sindh)	OMV M./UEP Alpha	12	30	16	13	10	8	-6.6%
Sofiya (Sindh)	OMV M./UEP Alpha	-	-	-	-	8	8	
Pasakhi East (Sindh)	OGDCL	-	-	-	3	9	8	

Contd.....

Non-Associated Gas Production (contd.)

Field (Province)	Operator	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Chhutto (Sindh)	OGDCL	-	-	-	-	0	8	
Nandpur/Panjpir (Punjab)	OGDCL	11	9	11	9	8	7	-16.4%
Rodho (Punjab)	Dewan Pet.	18	15	12	11	8	7	-20.8%
Rahim (Sindh)	UEPL	-	2	2	1	1	7	
Unar (Sindh)	OGDCL	-	-	-	3	10	7	
Block-22 (Sindh)	PEL	7	7	9	10	10	7	-3.8%
Moroja (Sindh)	UEPL	-	-	-	7	-	-	
Jhandial (Punjab)	POL	-	-	-	-	6	7	
Soghri (Sindh)	OGDCL	-	2	9	8	7	6	
Dars Deep (Sindh)	OGDCL	-	-	-	3	8	6	
Tolanj (KPK)	MOL	-	-	-	-	5	6	
Mitha (Sindh)	OMV M./UEP Alpha	-	-	-	-	-	6	
Bobli (Sindh)	OGDCL	16	14	6	5	6	6	-18.4%
Makori Deep (KPK)	MOL	-	-	-	-	6	5	
Nur/Bagla (Sindh)	OGDCL	8	5	4	3	2	5	10.1%
Thora Deep (Sindh)	OGDCL	-	-	-	7	9	5	
Dars (Sindh)	OGDCL	-	-	-	1	7	5	
Adam (Sindh)	PPL	10	11	4	4	4	5	17.7%
Hayat (Sindh)	UEPL	-	-	-	-	-	4	
Pirkoh (Balochistan)	OGDCL	15	15	12	10	7	4	-22.9%
Roshnai (Sindh)	UEPL	-	-	-	-	2	4	
Mazarani (Sindh)	PPL	6	5	4	4	4	4	-10.3%
Kalabagh (Punjab)	MPCL	-	-	-	0	5	4	
Sajan (Sindh)	UEPL	-	-	2	1	3	4	
Ratana (Punjab)	OPL	9	7	13	6	5	4	-22.5%
Dhodak (Punjab)	OGDCL	5	4	3	3	3	3	-11.1%
Dachrapur (Sindh)	OGDCL	4	10	8	5	6	3	-5.8%
Turk Deep (Sindh)	UEPL	10	9	6	3	3	3	-21.4%
Bukhari North (Sindh)	UEPL	-	-	-	-	-	3	3.0%
Chachar (Sindh)	PPL	3	2	3	3	3	3	-9.9%
Aqeeq (Sindh)	MPCL	-	-	-	-	3	2	
Bukhari Deep (Sindh)	UEPL	2	1	1	3	8	2	1.2%
Baudero (Sindh)	UEPL	-	-	-	-	-	2	
Sumar Deep (Sindh)	UEPL	15	12	4	3	3	2	-31.4%
Chak 63 SE (Sindh)	OGDCL	-	-	3	3	2	2	
Ali (Sindh)	UEPL	3	3	3	2	10	2	-13.0%
Makh'pur & Deep (Sindh)	UEPL	1	1	1	1	0	2	-0.7%
Khorewah (Sindh)	UEPL	6	6	4	3	3	2	-23.0%
Sujawal (Sindh)	MPCL	9	10	8	7	4	2	-13.4%
Kabir (Sindh)	PPL	-	-	-	-	1	1	
Naimat Basal (Sindh)	UEPL	6	4	3	2	2	1	-21.2%
Tharo (Sindh)	UEPL	-	1	7	4	2	1	
Sadkal (Punjab)	OGDCL	1	2	1	2	2	1	-4.8%
Kausar (Sindh)	UEPL	3	2	2	2	1	1	-17.9%
Turk (Sindh)	UEPL	2	2	2	2	1	1	-12.9%
Sari/Hundi (Sindh)	OGDCL	2	2	1	1	1	1	-1.9%
Jand (Punjab)	OGDCL	-	-	-	-	-	1	
Halini Deep (Punjab)	MPCL	-	-	0	1	1	1	
Tajjal (Sindh)	OMV/UEP Beta	12	6	4	3	2	1	-49.0%

Contd.....

Non-Associated Gas Production (contd.)

Field (Province)	Operator	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Piara Deep Basal (Sindh)	UEPL	-	-	3	1	1	1	
Korai (Sindh)	UEPL	-	16	12	3	6	1	
Buzdar South Deep (Sindh)	UEPL	16	11	5	2	3	1	-40.0%
Thebo (Sindh)	UEPL	2	3	2	1	1	1	-14.1%
Kamal North (Sindh)	UEPL	1	2	2	1	1	1	-19.8%
Gormani (Sindh)	UEPL	-	-	-	-	-	1	-5.1%
Rawal (Sindh)	UEPL	-	-	-	-	-	1	
Bitrism (Sindh)	OGDCL	-	-	-	-	-	1	
Others* (Sindh)	UEPL	2	2	2	1	1	1	-29.0%
Koonj (Sindh)	MPCL	2	1	1	1	1	1	-24.2%
Makori (KPK)	MOL	3	2	1	1	1	0	-43.3%
Nim (Sindh)	OGDCL	-	1	1	0	0	0	
Ramdiani (Sindh)	UEPL	-	-	-	-	-	0	
Halini (Punjab)	MPCL	0	1	1	1	1	0	
Qasim Deep (Sindh)	UEPL	9	4	3	1	1	0	
Sonro (Sindh)	UEPL	2	1	2	1	1	0	-36.1%
Resham (Sindh)	OGDCL	-	-	-	-	2	0	
Noorai Jagir (Sindh)	OGDCL	1	-	4	2	1	0	-8.9%
Chak 7A (Sindh)	OGDCL	1	1	1	1	0	0	-33.1%
Bahu (Punjab)	OGDCL	27	13	6	2	1	0	-57.8%
Umar (Sindh)	UEPL	-	2	4	2	1	0	
Chaman (Sindh)	UEPL	-	-	-	4	1	0	
Chandio (Sindh)	OGDCL	-	-	-	-	0	0	
Tangri Deep (Sindh)	UEPL	2	1	1	0	0	0	-45.2%
Lodano Deep (Sindh)	UEPL	6	1	1	0	0	0	-50.7%
Lodano (Sindh)	UEPL	5	3	1	1	0	0	-33.8%
Naimat Basal 2X (Sindh)	UEPL	-	1	0	0	0	0	
Bhatti (Sindh)	UEPL	1	1	1	0	0	0	-29.1%
Guni (Sindh)	UEPL	-	-	-	-	-	0	-29.4%
Warar (Sindh)	UEPL	-	-	-	-	-	0	
Kato (Sindh)	UEPL	0	0	0	0	0	0	10.5%
Piara Deep (Sindh)	UEPL	1	1	1	0	0	0	-48.3%
Moolan (Sindh)	OGDCL	-	-	-	-	1	0	
Thal West (Sindh)	OGDCL	-	-	-	-	-	0	
Tharo West (Sindh)	UEPL	-	-	-	-	2	0	
Kumbh (Sindh)	UEPL	-	-	2	1	0	0	
Buzdar South (Sindh)	UEPL	0	0	-	-	1	0	188.6%
Shekhano (Sindh)	UEPL	0	0	0	0	0	0	-64.6%
Rahim North (Sindh)	UEPL	5	1	0	0	0	0	-57.4%
Babarki (Sindh)	UEPL	-	-	-	-	2	0	
Golarchi (Sindh)	UEPL	1	0	0	1	0	0	-37.7%
Jabo (Sindh)	UEPL	0	0	0	0	0	0	-44.2%
Khorewah Deep (Sindh)	UEPL	1	0	0	0	0	0	-42.7%
Matli (Sindh)	UEPL	0	0	0	-	-	0	-13.0%
Mohri (Sindh)	UEPL	-	-	-	-	4	0	
Haider Deep (Sindh)	UEPL	0	0	0	0	0	0	-30.0%
Rahim 2X (Sindh)	UEPL	-	0	0	1	0	0	
Kinza (Sindh)	PPL	-	0	0	-	-	0	
Hakro (Sindh)	UEPL	-	-	-	-	2	0	

Contd.....

Non-Associated Gas Production (contd.)

Field (Province)	Operator	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Chak 63 (Sindh)	OGDCL	-	1	5	6	1	0	
Fateh Shah North (Sindh)	UEPL	1	1	0	0	-	0	-49.7%
Nurpur Deep (Sindh)	UEPL	2	1	1	0	0	0	-68.3%
Sahu (Sindh)	UEPL	-	-	0	0	0	0	
Missri (Sindh)	UEPL	0	0	0	0	0	0	-75.9%
Bago (Sindh)	UEPL	-	-	-	-	0	0	
Lundali (Sindh)	Eni (Pak)	3	0	-	-	-	-	
Haseeb (Sindh)	Hycarbex	11	4	-	-	-	-	
Baloch (Sindh)	OGDCL	2	1	1	1	-	-	
Bhullan Shah (Sindh)	OGDCL	-	-	-	-	-	-	
Chak 66NE (Sindh)	OGDCL	-	2	0	1	-	-	
Daru (Sindh)	OGDCL	-	-	-	-	1	-	
Gopang (Sindh)	OGDCL	0	0	-	-	-	-	
Pakhro (Sindh)	OGDCL	1	0	-	-	0	-	
Pasakhi WD (Sindh)	OGDCL	-	-	-	1	-	-	
Shekhan (Sindh)	OGDCL	-	-	-	-	-	-	
Ahmad (Sindh)	UEPL	-	-	0	-	-	-	
Bela (Punjab)	POL	0	0	-	0	-	-	
Domial (Punjab)	POL	1	-	-	-	-	-	
Rahmat (Sindh)	OMV Maurice	-	-	-	-	-	-	
Saqib (Sindh)	OMV M./UEP Alpha	6	4	-	-	-	-	
Sara & Suri (Sindh)	Tullow	-	-	-	-	-	-	
Amdani (Sindh)	UEPL	0	-	-	-	-	-	
Bakhsh Deep (Sindh)	UEPL	8	14	6	0	0	-	
Baqar Deep (Sindh)	UEPL	-	0	-	-	-	-	
Bhanoki (Sindh)	UEPL	-	-	0	4	-	-	
Bilal (Sindh)	UEPL	-	-	0	0	-	-	
Dhani (Sindh)	UEPL	-	0	0	-	-	-	
Dang (Sindh)	UEPL	-	-	-	0	-	-	
Gagani (Sindh)	UEPL	0	-	-	-	-	-	
Khaskeli North (Sindh)	UEPL	0	-	-	-	-	-	
Liari Deep (Sindh)	UEPL	0	0	0	0	0	-	
Limu (Sindh)	UEPL	-	1	0	-	-	-	
Limu North (Sindh)	UEPL	-	-	7	4	0	-	
Limu East (Sindh)	UEPL	-	-	0	0	0	-	
Jalal (Sindh)	UEPL	2	0	-	-	-	-	
Jarar Deep (Sindh)	UEPL	12	9	1	0	0	-	
Jhok (Sindh)	UEPL	0	0	-	-	-	-	
Malah (Sindh)	UEPL	0	0	-	-	-	-	
Mewa (Sindh)	UEPL	1	0	-	-	-	-	
Jhaberi (Sindh)	UEPL	-	-	-	-	-	-	
Nando (Sindh)	UEPL	0	0	0	0	-	-	
Jogwani (Sindh)	UEPL	2	1	0	0	-	-	
Koli (Sindh)	UEPL	0	0	0	-	-	-	
Korai North (Sindh)	UEPL	-	-	0	-	-	-	
Mahi (Sindh)	UEPL	-	-	0	0	0	-	
Makrani (Sindh)	UEPL	-	-	-	0	0	-	
Malkani (Sindh)	UEPL	-	-	-	0	0	-	
Mohib (Sindh)	UEPL	-	-	-	3	0	-	

Contd.....

Non-Associated Gas Production (contd.)

Field (Province)	Operator	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Mor (Sindh)	UEPL	-	-	-	0	-	-	
Mulaki (Sindh)	UEPL	1	-	-	-	-	-	
Oderolal (Sindh)	UEPL	-	-	-	-	3	-	
Pir (Sindh)	UEPL	0	0	-	-	-	-	
Pir Apan (Sindh)	UEPL	-	-	-	-	-	-	
Ragni Deep (Sindh)	UEPL	0	1	0	0	0	-	
Raj (Sindh)	UEPL	-	-	-	-	-	-	
Rajpari (Sindh)	UEPL	0	-	-	-	-	-	
Rind (Sindh)	UEPL	-	-	-	-	-	-	
Saman (Sindh)	UEPL	-	0	0	0	-	-	
Siraj South (Sindh)	UEPL	-	-	-	0	0	-	
Suhrat (Sindh)	UEPL	-	1	1	1	-	-	
Usman (Sindh)	UEPL	4	4	3	1	-	-	
Wasayo (Sindh)	UEPL	-	-	1	-	-	-	
Zaur West (Sindh)	UEPL	-	-	0	0	-	-	
Associated Gas Production *		55	50	44	37	41	42	-4.9%
Total: Million Cft/Day		4,092	4,016	4,048	4,032	3,997	3,936	-0.77%

* See table 3.4.1 for details.

Source: DGPC

Figure 3.1
NATURAL GAS PRODUCTION

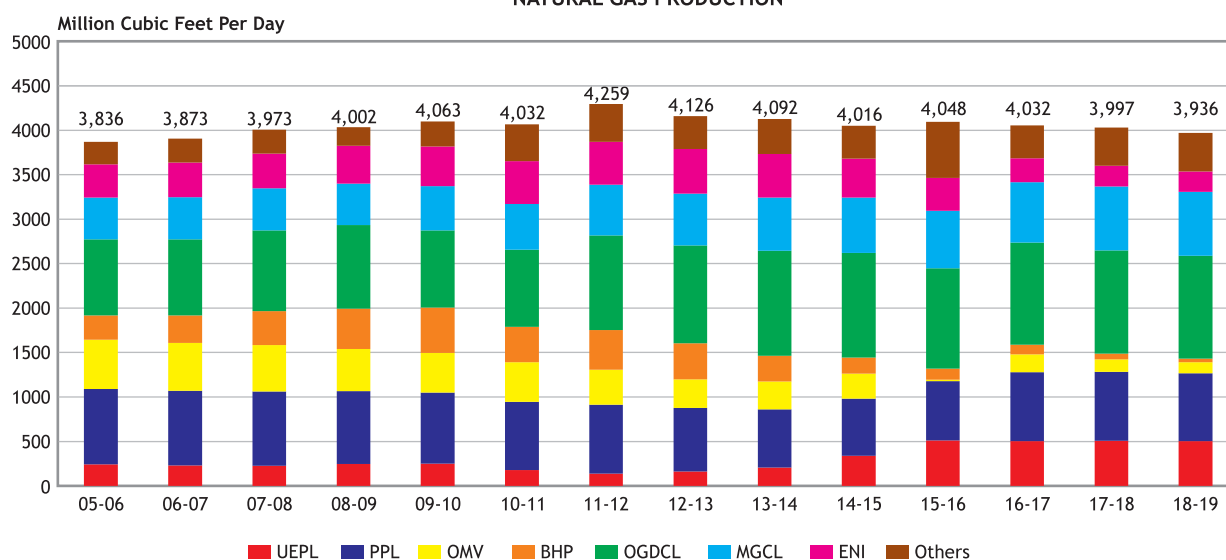


Table 3.5
LPG SUPPLIES BY SOURCE

Source	Unit: Tonnes TOE						
	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Attock Refinery	5,647	2,999	2,039	1,992	1,970	2,849	-12.8%
Byco Refinery	8,129	19,196	14,763	14,439	40,804	47,113	42.1%
Pak-Arab Refinery	147,661	139,986	136,064	135,169	142,277	118,401	-4.3%
Pakistan Refinery	37,110	21,034	14,766	17,413	19,802	15,688	-15.8%
National Refinery	7,416	8,449	6,781	9,320	7,941	9,437	4.9%
Refineries Sub-Total:	205,963	191,664	174,413	178,333	212,794	193,488	-1.2%
Adhi	50,739	51,345	58,385	76,933	94,388	91,954	12.6%
Adam	777	5,727	81	40	16	72	-37.9%
Bago	-	-	-	-	160	64	
Baksh Deep	189	8	595	12	-	-	
Baloch	-	-	3,490	2,649	-	-	
Baudero	-	-	-	-	-	0	
Bilal	-	-	8	-	-	-	
Bilal North	-	-	-	-	-	-	
Bobbi	15,651	15,438	8,499	7,584	8,044	8,946	-10.6%
Bhangali	-	-	-	-	-	-	
Chak 2	-	-	9,978	24,270	25,616	23,275	
Chak 63	-	-	5,956	8,482	2,125	26	
Chak 63 SE	-	-	4,692	7,863	6,022	5,252	
Chak 66 NE	-	-	249	1,175	-	-	
Chanda	4,547	3,569	3,594	2,798	3,311	3,483	-5.2%
Chandio	-	-	-	-	426	185	
Dakhni	4,757	3,316	3,213	3,773	3,222	1,759	-18.0%
Dars	-	-	-	685	7,962	5,498	
Dars Deep	-	-	-	1,651	7,630	5,757	
Dars West	-	-	-	1,763	13,508	11,949	
Dhodak	-	-	-	-	-	-	
Dhulian	4,325	4,189	4,023	3,813	2,962	2,726	-8.8%
Dhurnal	-	-	-	-	-	-	
Domial	487	-	-	-	-	-	
Fimkassar	-	-	-	-	-	-	
Gormani	-	-	-	-	-	351	
Hakeem Daho	-	-	13,155	5,553	8,525	10,655	
Hakro	-	-	-	-	287	-	
Jakhro	-	-	4,943	1,663	1,709	1,334	
Jand	-	-	-	-	-	10	
Jhandial	-	-	-	-	4,732	5,297	
JJVL	101,964	10,429	134,939	103,260	67,852	26,609	-23.6%
Kamal North	3,232	2,734	1,396	689	440	961	-21.5%
Khaur	-	-	-	-	-	252	
Kunnar	6,331	7,696	8,052	7,765	7,000	7,721	4.0%
Kunnar/Pasaki Deep	-	-	-	14,882	39,018	46,053	
Kunnar South	-	-	-	-	3,592	4,431	
Kunnar West	-	-	-	266	3,061	2,615	
Lala Jamali	-	-	221	3,011	9,000	14,440	
Makori	479	1,458	704	692	587	432	-2.0%
Makori Deep	-	-	-	-	5,803	8,371	

Contd.....

LPG Supplies By Source (Contd..)

Unit: Tonnes
TOE

Source	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Makori East	20,409	88,957	113,806	129,243	121,635	114,430	41.2%
Markrani	-	-	-	326	-	-	
Malkani	-	-	-	12	10	-	
Mohib	-	-	-	1,517	236	-	
Moroja	-	-	-	-	-	1,302	
Mamikhel	5,800	2,857	738	1,837	1,907	3,717	-8.5%
Manzalai	-	-	669	1,669	1,305	1,409	
Maramzai	13	34,494	41,751	42,257	39,430	40,162	397.9%
Mardankhel	-	-	-	2,844	4,464	7,986	
Meyal	4,458	4,595	4,460	3,874	4,311	3,580	-4.3%
Moolan	-	-	-	-	1,182	110	
Naimat Basal	2,720	1,678	766	440	320	516	-28.3%
Naimat Basal 2X	-	1,106	368	331	263	191	
Naimat West	6,435	6,453	11,973	4,134	3,373	4,264	-7.9%
Nashpa	-	-	-	-	21,552	100,638	
Oderolal	-	-	-	-	631	-	
Pasakhi East	-	-	-	398	2,003	3,605	
Pariwali	9,242	7,602	6,339	4,778	3,520	2,984	-20.2%
Pindori	1,952	1,917	1,842	1,442	1,323	1,284	-8.0%
Rahim	-	-	-	-	-	-	
Rahim North	4,485	1,105	115	17	107	129	-50.8%
Rahim 1X	-	2,707	1,460	657	424	8,327	
Rahim 2X	-	321	556	514	186	33	
Rajpari	4	-	-	-	-	-	
Rajani	-	-	-	-	492	1,807	
Ratana	5,874	4,901	7,420	3,635	3,218	2,134	-18.3%
Resham	-	-	-	-	4,147	-	
Sajan	-	-	-	-	69	168	
Salamat	-	-	-	-	166	611	
Siraj South	-	-	-	2	-	-	
Sutiari Deep	-	-	-	-	2,925	1,864	
Soghri	-	-	-	-	-	66	
Sohrab Deep	-	-	-	-	116	462	
Sumar Deep	8,815	7,396	1,947	1,220	917	1,433	-30.5%
Saleh	-	950	3,137	141	678	1,143	
Saman	-	33	23	-	-	-	
Shah	-	-	-	581	3,070	2,906	
Sharf	-	-	-	2,565	4,504	4,748	
Tando Allah Yar	-	-	-	1,195	7,757	5,027	
Thebo	943	2,862	1,157	394	245	576	-9.4%
Thora Deep	-	-	-	418	3,092	1,620	
Turkwal	-	-	-	-	-	-	
Unar	-	-	-	569	3,859	2,556	
Umar	-	1,049	2,377	590	393	198	
Field Plants Sub-Total:	264,629	276,891	467,077	488,874	570,826	612,466	18.3%
Imports Sub-Total:	71,093	145,634	372,850	461,426	402,685	251,753	28.8%
Total:	541,685	614,189	1,014,340	1,128,633	1,186,305	1,057,707	14.3%
	586,049	664,491	1,097,415	1,221,068	1,283,463	1,144,333	
Annual Growth Rate	10.17%	13.38%	65.15%	11.27%	5.11%	-10.84%	

Source: Oil Refineries, DGPC, DGO, DG(LGs) and OGRA.

*: LPG production for 2013-14 includes 27,463 Tonnes as share of SSGC in JJVL.

Table 3.6

LPG CONSUMPTION BY SECTOR

Sector	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	Unit: Tonnes
							TOE
							ACGR
Domestic	239,850	288,963	430,212	454,623	495,809	445,496	13.2%
Commercial	225,892	287,762	413,426	431,220	515,780	415,368	13.0%
Others	75,491	122,428	275,152	323,577	268,962	200,583	21.6%
Total:	541,233	699,153	1,118,790	1,209,420	1,280,550	1,061,447	14.4%
	585,560	756,414	1,210,419	1,308,471	1,385,427	1,148,380	

Source: DG(LGs), OGRA.

Table 3.7

LPG CONSUMPTION BY REGION AND BY SECTOR 2018-19

Province/Region	Domestic	Commercial	Industrial	Unit: Tonnes
				TOE
				Total
Punjab	212,360	257,090	149,502	618,952
Sindh	25,607	47,148	30,117	102,872
KPK	72,874	24,220	7,127	104,221
Balochistan	12,047	13,200	4,434	29,681
A.J. Kashmir	40,253	16,753	870	57,876
FATA	26,195	9,690	-	35,885
Northern Area	45,449	37,798	-	83,247
Federal Area	10,712	9,469	8,533	28,714
Total:-	445,496	415,368	200,583	1,061,447
TOE	481,982	449,387	217,011	1,148,380

Source: DG(LGs), OGRA.

Table 3.8

IMPORT OF LNG

Unit	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
MMBTu	19,795,505	100,720,923	186,672,977	313,902,345	373,410,403	
TOE	472,503	2,404,128	4,455,734	7,492,597	8,913,006	
Import value (Million US\$)	(151)	(642)	(1,278)	(2,452)	(3,392)	
Annual growth rate of imports		408.81%	85.34%	68.16%	18.96%	

Source: Directorate General of Liquefied Gases, MoE (Petroleum Division)

Table: 3.9

LNG CONSUMPTION BY SECTOR

Sector	Unit: Million CFt TOE			
	2015-16	2015-16	2016-17	2018-19
Domestic	-	-	-	5 117
Fertilizer (as Feedstock)	4,397 102,884	18,080 423,077	1,219 28,521	11,696 273,683
Fertilizer (as Fuel use)	1,198 28,036	3,817 89,313	296 6,929	2,838 66,399
Power	58,934 1,379,048	71,930 1,683,159	186,251 4,358,272	227,739 5,329,081
Cement	-	138 3,228	296 6,928	10 224
Transport (CNG)	8,319 194,654	16,028 375,056	20,046 469,077	16,584 388,071
Gen. Industries	25,004 585,101	61,360 1,435,833	75,210 1,759,907	63,281 1,480,780
Commercial	-	-	432 10,102	2,052 48,025
SSGC *	-	-	-	53,261 1,246,306
Total:	97,851 2,289,724	171,353 4,009,666	283,749 6,639,736	377,465 8,832,687

Source: SNGPL

* RLNG withheld by SSGCL

Table: 3.10

NATURAL GAS CONSUMPTION BY SECTOR

Unit: Million Cft
TOE

Sector	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Domestic	269,135 6,297,770	278,069 6,506,824	271,302 6,348,456	290,868 6,806,322	284,428 6,655,612	311,887 7,298,154	3.0%
Commercial	38,117 891,927	35,187 823,381	33,633 787,005	32,858 768,884	32,096 751,052	31,205 730,188	-3.9%
Gen. Industries	250,490 5,861,460	239,591 5,606,436	230,436 5,392,202	261,267 6,113,656	273,339 6,396,131	245,958 5,755,407	-0.4%
Pakistan Steel Mills	8,542 199,883	7,623 178,378	1,081 25,295	739 17,293	735 17,199	748 17,503	-38.6%
Cement	522 12,215	831 19,449	497 11,633	583 13,651	886 20,737	387 9,061	-5.8%
Fertilizer (as Feedstock)	164,378 3,024,845	166,903 3,088,834	182,076 3,559,855	182,241 3,622,881	181,662 3,500,893	196,576 3,842,384	3.6%
Fertilizer (as Fuel use)	52,139 963,123	58,609 1,064,643	80,847 1,471,520	94,564 1,737,760	66,442 1,204,500	37,258 695,246	-6.5%
Power	349,535 6,602,422	371,562 6,847,894	440,593 8,577,146	446,941 8,643,403	544,654 10,831,662	511,140 10,050,101	7.9%
Transport (CNG)	87,634 2,050,646	66,517 1,556,505	64,455 1,508,246	67,245 1,573,536	70,455 1,648,649	65,099 1,523,315	-5.8%
SSGC *						53,261 1,246,306	
Total:	1,220,493 25,904,290	1,224,893 25,692,343	1,304,919 27,681,360	1,377,307 29,297,384	1,454,697 31,026,434	1,453,517 31,167,665	3.6%
Annual growth rate	-3.75%	0.36%	6.53%	5.55%	5.62%	-0.08%	

Source: SNGPL, SSGCL, PPL, MPCL, OGDCL, IPPs.

* RLNG withheld by SSGCL

Table: 3.11

NATURAL GAS CONSUMPTION BY PROVINCE (2018-19)

Unit: Million Cft
TOE

Sectors	Punjab	KPK	Sindh	Balochistan	Total
Domestic	179,886 4,209,331	36,286 849,092	80,734 1,889,176	14,981 350,555	311,887 7,298,154
Commercial	18,544 433,940	2,454 57,428	9,222 215,795	984 23,026	31,205 730,188
Gen. Industry	98,250 2,299,055	14,101 329,972	133,190 3,116,646	416 9,734	245,958 5,755,407
Pakistan Steel Mills	-	-	748 17,503	-	748 17,503
Cement	10 224	136 3,174	242 5,663	0 0	387 9,061
Fertilizer (as Feedstock)	124,441 2,266,940	0 0	72,135 1,575,444	-	196,576 3,842,384
Fertilizer (as Fuel use)	25,370 464,205	41 968	11,846 230,073	-	37,258 695,246
Power	204,001 4,744,794	-	188,621 4,022,075	118,518 1,283,232	511,140 10,050,101
Transport	16,623 388,980	25,759 602,758	21,909 512,671	808 18,907	65,099 1,523,315
SSGC *	53,261 1,246,306	-	-	-	53,261 1,246,306
Total:-	720,386 16,053,775	78,777 1,843,391	518,647 11,585,044	135,707 1,685,455	1,453,517 31,167,665

Source: DG(Gas), SNGPL, SSGCL, PPL, MPCL, Tullow, OGDCL, IPPs..

* RLNG withheld by SSGCL

Table: 3.12

NATURAL GAS SUPPLIES TO FERTILIZER & POWER SECTORS BY SOURCE

Unit: Million Cft
TOE

Sector/Source	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
FERTILIZER SECTOR							
SNGPL	16,764	17,825	49,720	65,989	41,759	56,918	27.7%
	392,278	417,094	1,163,449	1,544,134	977,163	1,331,884	
SSGCL	16,950	17,264	23,199	21,564	19,863	18,599	1.9%
	396,630	403,978	542,857	504,598	464,794	435,217	
Mari Gas Field	182,803	190,423	190,004	189,252	186,482	158,316	-2.8%
	3,199,060	3,332,405	3,325,070	3,311,910	3,263,435	2,770,530	
Total Fertilizer Sector	216,517	225,512	262,923	276,805	248,104	233,833	1.6%
	3,987,968	4,153,476	5,031,375	5,360,641	4,705,392	4,537,630	
POWER SECTOR							
SNGPL	108,080	95,997	138,670	154,915	237,138	256,828	18.9%
	2,529,082	2,246,328	3,244,879	3,625,011	5,549,019	6,009,764	
SSGCL	66,598	79,222	107,057	81,039	71,876	56,567	-3.2%
	1,558,393	1,853,795	2,505,134	1,896,313	1,681,898	1,323,668	
Kandhkot Gas Field	30,183	32,194	27,247	34,995	54,135	49,798	10.5%
	600,647	637,441	534,045	685,900	1,061,047	976,037	
Mari Gas Field	20,604	19,123	26,492	22,944	35,870	34,309	10.7%
	360,574	334,658	463,605	401,520	627,725	600,408	
Nandpur/Panjpir Gas Fields	13,531	7,729	5,897	3,781	2,935	1,601	-34.7%
	50,064	41,739	21,819	20,419	15,851	8,648	
Uch Gas Field	83,975	106,013	105,921	115,022	112,911	112,037	5.9%
	940,514	1,070,733	1,186,315	1,288,246	1,264,606	1,131,577	
Qadirpur Gas Field	26,564	31,283	29,309	34,245	29,788	0	-100.0%
	563,147	663,200	621,350	725,994	631,516	0	
Total Power Sector	349,535	371,562	440,593	446,941	544,654	511,140	7.9%
	6,602,422	6,847,894	8,577,146	8,643,403	10,831,662	10,050,101	

Source: DG(Gas), SNGPL, SSGCL, PPL, MPCL, Tullow, OGDCL, IPPs.

Table: 3.13

NUMBER OF GAS CONSUMERS AS ON 30TH JUNE							
Unit: Numbers							
Province / Sector	2014	2015	2016	2017	2018	2019	ACGR
KPK: Domestic	589,192	624,854	660,474	716,539	803,580	867,903	8.1%
Commercial	8,537	8,554	8,638	8,725	9,064	9,378	1.9%
Industrial	850	850	850	850	857	869	0.4%
Total - KPK:	598,579	634,258	669,962	726,114	813,501	878,150	8.0%
Punjab: Domestic	4,077,404	4,296,893	4,522,629	4,886,985	5,402,001	5,765,446	7.2%
Commercial	45,420	45,493	45,681	45,876	48,283	50,492	2.1%
Industrial	5,603	5,603	5,604	5,605	5,714	5,822	0.8%
Total - Punjab:	4,128,427	4,347,989	4,573,914	4,938,466	5,455,998	5,821,760	7.1%
Sindh: Domestic	2,378,661	2,434,850	2,493,089	2,553,124	2,620,666	2,715,169	2.7%
Commercial	21,380	20,893	20,457	20,104	19,981	21,817	0.4%
Industrial	4,100	4,096	4,117	4,137	4,159	4,211	0.5%
Total - Sindh:	2,404,141	2,459,839	2,517,663	2,577,365	2,644,806	2,741,197	2.7%
Balochistan: Domestic	240,145	248,174	253,113	259,087	265,556	275,142	2.8%
Commercial	2,360	2,515	2,624	2,660	2,714	2,780	3.3%
Industrial	56	57	57	59	58	59	1.0%
Total - Balochistan:	242,561	250,746	255,794	261,806	268,328	277,981	2.8%
Total: Domestic	7,285,402	7,604,771	7,929,305	8,415,735	9,091,803	9,623,660	5.7%
Commercial	77,697	77,455	77,400	77,365	80,042	84,467	1.7%
Industrial	10,609	10,606	10,628	10,651	10,788	10,961	0.7%
Total - Pakistan:	7,373,708	7,692,832	8,017,333	8,503,751	9,182,633	9,719,088	5.7%
Annual growth rate	5.02%	4.33%	4.22%	6.07%	7.98%	5.84%	

Source: SNGPL, SSGCL.

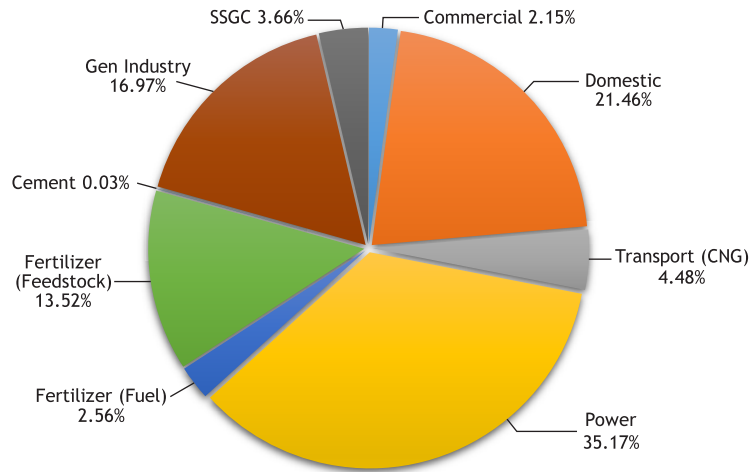
Table: 3.14

NATURAL GAS DISTRIBUTION NETWORK AS ON 30TH JUNE							
Unit: Kilometres							
Province / Type	2014	2015	2016	2017	2018	2019	ACGR
KPK: Transmission	1,252	1,261	1,261	1,277	1,300	1,335	1.3%
Distribution	10,796	11,385	11,669	12,538	14,190	15,330	7.3%
Services	3,283	3,429	3,593	3,877	4,240	4,549	6.7%
Total - KPK:	15,331	16,075	16,523	17,692	19,730	21,214	6.7%
Punjab: Transmission	5,947	5,977	6,013	6,543	6,890	6,997	3.3%
Distribution	64,940	66,723	69,253	75,486	86,767	90,757	6.9%
Services	16,657	17,426	18,143	19,374	21,055	22,207	5.9%
Total - Punjab:	87,544	90,126	93,409	101,403	114,712	119,961	6.5%
Sindh: Transmission	2,798	2,798	2,861	3,199	3,254	3,254	3.1%
Distribution	28,154	28,495	28,924	29,325	29,662	30,062	1.3%
Services	7,567	7,877	8,152	8,357	8,559	8,830	3.1%
Total - Sindh:	38,519	39,170	39,937	40,881	41,475	42,146	1.8%
Balochistan: Transmission	753	753	753	753	776	776	0.6%
Distribution	5,793	5,871	5,988	6,108	6,227	6,303	1.7%
Services	1,576	1,647	1,697	1,731	1,761	1,798	2.7%
Total - Balochistan:	8,122	8,271	8,438	8,592	8,764	8,877	1.8%
Total: Transmission	10,750	10,789	10,888	11,772	12,220	12,362	2.8%
Distribution	109,683	112,474	115,834	123,457	136,846	142,452	5.4%
Services	29,083	30,379	31,585	33,339	35,615	37,384	5.2%
Total - Pakistan:	149,516	153,642	158,307	168,568	184,681	192,198	5.2%
Annual growth rate	2.06%	2.76%	3.04%	6.48%	9.56%	4.07%	

Source: SNGPL, SSGCL.

Figure 3.2
NATURAL GAS CONSUMPTION BY SECTOR
2018-19

Total: 1,453 Billion Cu. Ft.



2013-14
Total: 1,220 Billion Cu. Ft.

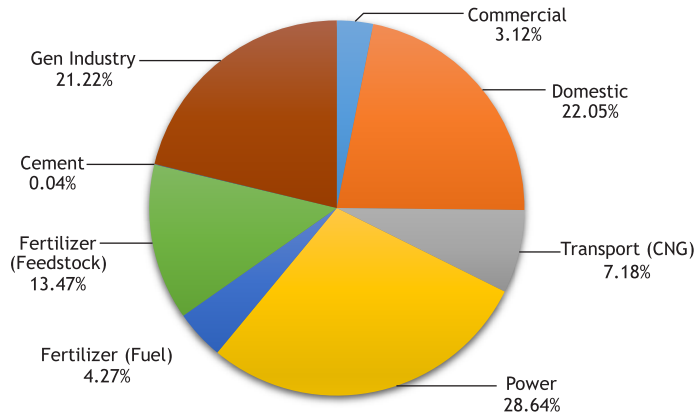


Figure 3.3
NATURAL GAS CONSUMER PRICES

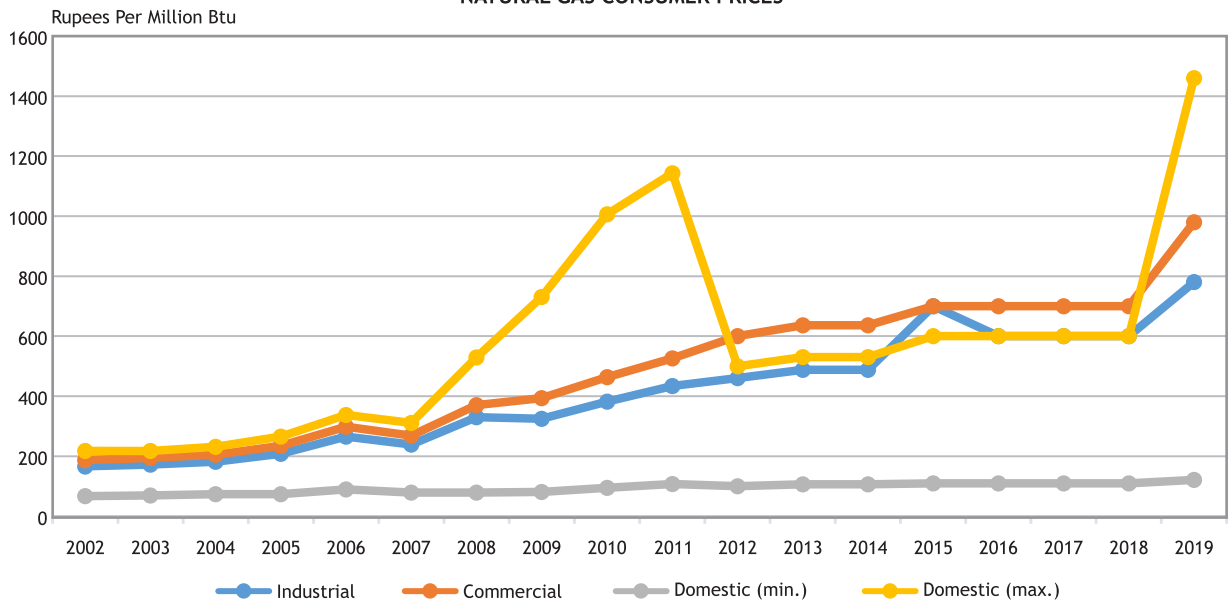


Table: 3.15
NATURAL GAS CONSUMER PRICES *

Prices Effective From

Unit: See foot-note

Category	1.1.2013	23.8.13	1.1.14	1.9.2015	1.1.2016	1.4.2016	1.7.2016	15.12.2016	1.1.2017	1.7.2017	27.9.2018	1.1.2019	1.7.2019
Domestic Slabs+													
i) Upto 1.77 M cu.ft./month *	106.14	106.14	106.14	110.00	110.00			110.00	110.00		121		121
ii) 1.77 to 3.55 *											127		300
iii) 3.55 to 7.10 "											264		553
iv) 7.10 to 10.64 "	212.28	212.28	212.28	220.00	220.00			220.00	220.00		275		738
v) 10.64 to 14.2 **	530.69	530.69	530.69	600.00	600.00			600.00	600.00		780		1107
vi) 14.2 to 17.8 **											1460		1460
vii) Above 17.8 **											1460		1460
Bulk Consumers													
i) Upto 3.55 M cu.ft./month													
ii) 3.55 to 10.64 "	530.69	530.69	530.69	600.00	600.00			600.00	600.00		780		780
iii) Above 10.64 "	636.83	636.83	636.83	700.00	700.00			700.00	700.00		980		1283
Commercial													
Special Commercial (Roti Tandoors)+													
i) Upto 1.77 M cu.ft./month	106.14	106.14	106.14	110.00	110.00			110.00	110.00		121		110
ii) Upto 3.55 "	212.28	212.28	212.28	220.00	220.00			220.00	220.00		127		110
iii) Upto 7.10 "	636.83	636.83	636.83	700.00	700.00			600.00	600.00		264		220
iv) Upto 10.64 "											780		700
v) Upto 14.2 **											980		1021
vi) Over 14.2 **											780		1283
General Industry	488.23	488.23	488.23	700.00	700.00			600.00	600.00		780		1021
Ice Factories	636.83	636.83	636.83	700.00	700.00			700.00	700.00		980		1283
Captive Power	488.23	488.23	488.23	700.00	700.00			600.00	600.00		780		1021
Cement	742.97	742.97	742.97	750.00	750.00			750.00	750.00		975		1277
CNG Stations	656.32	656.32	656.32	700.00	700.00			700.00	700.00		980		1283
Fertilizer													
On SNGPL & SSGCL Systems													
As Feed Stock													
Pak American Fertilizer	123.41	123.41	123.41	200.00	200.00			123.41	123.41		185		300
FFC Jordan													
Dawood / Pak Arab	123.41	123.41	123.41	200.00	200.00			123.41	123.41		185		300
Pak-China / Hazara	123.41	123.41	123.41	200.00	200.00			123.41	123.41		185		300
Engro Fertilizer Ltd.	67.55	67.55*	67.55	70.61	70.61			72.73	72.73		US\$ 0.70		US\$ 0.70
Fauji Fertilizer Bin Qasim Ltd.	123.41	123.41	123.41	200.00	200.00			123.41	123.41		185		300
FFBQL Addl. 10MMCFD	67.38	69.10	73.17	70.61	70.61			72.73	72.73				
FFBQL	123.41	123.41	123.41	200.00	200.00			123.41	123.41		780		1021
AgriTech Fertilizer Limited	123.41	123.41	123.41	200.00	200.00			123.41	123.41				
As Fuel													
Raw Gas from Mart Gasfield													
As Feed Stock													
FFC/Engro Chemical (New)	123.41	123.41	123.41	200.00	200.00			123.41	123.41		185		300
FFC/Engro Chemical (Old)	67.38	69.10	73.17	70.61	70.61			72.73	72.73		US\$ 0.70		US\$ 0.70
Fatima Fertilizer													
Pak Saudi													
Foundation Power Company Ltd.	488.23	488.23	488.23	600.00	600.00			613.00	613.00		629		824
As Fuel	488.23	488.23	488.23	600.00	600.00			600.00	600.00		780		1021

Contd....

NATURAL GAS CONSUMER PRICES (Contd..)

Category	Prices Effective From											Unit: See foot-note		
	1.1.2013	23.8.13	1.1.14	1.9.2015	1.1.2016	1.4.2016	1.7.2016	15.12.2016	1.1.2017	1.7.2017	27.9.2018		1.1.2019	1.7.2019
Power														
SNGPL/SSGCL Systems	488.23	488.23	488.23	713.89	648.52	613.00	443.58	443.58	574.53	669.45 ^{##}	1005.19	1283.47	1283.47	
Liberty Power Limited****	1505.20	1505.20	1505.20 ^{##}	600.00		613.00	613.00	400.00	400.00		629	824	824	
Independent Power Projects	488.23	488.23	488.23	600.00		613.00	613.00	400.00			629	824	824	
Wapda and KESC Power Plant	488.23	488.23	488.23	600.00		613.00	613.00	400.00			629	824	824	
Raw Gas for WAPDA from														
Sui Gasfield (917 Btu)	488.23	488.23	488.23	600.00		613.00	613.00	400.00			629	824	824	
Kandhkot Gasfield (866 Btu)	488.23	488.23	488.23	600.00		613.00	613.00	400.00			629	824	824	
Mari Gasfield (754 Btu)	488.23	488.23	488.23	600.00		613.00	613.00	400.00			629	824	824	
Sara/Suri Gasfields	488.23	488.23	488.23	600.00		613.00	613.00	400.00			629	824	824	

Units: Prices are on Rs/million Btu basis since 1st March 2002. Before this, these were on Rs/Mcf basis.

* Without General Sales Tax (GST).

** Since 25.10.2002, 5th slab has been removed and the 4th slab applied to all above 10.64 M cu.ft. per month.

+ Flat rate ob all offtakes applicable w.e.f 22.09.2012

Effective from 1.7.2013

Effective from 16.1.2014 and Rs. 1600.61 for 1-15 January 2014.

Sources: DG(Gas)

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Part 4

coal

2018-19

■	Measured Reserves	7,775.5 million tonnes
■	Production	5.8 million tonnes
■	Import	15.7 million tonnes
■	Consumption	21.5 million tonnes
■	Import Bill	154.8 billion Pak rupees

Table: 4.1
PAKISTAN COAL RESERVES / RESOURCES AS ON JUNE 30, 2019

PROVINCE Coal Field	Seam Thickness Range(Metres)	Total Measured Reserves	Indicated	Resources (Million Tonnes) Inferred	Hypothetical	Status	Moisture	Coal Quality Proximate Analysis (%) Volatile Matter	Fixed Carbon	Ash	Total Sulphur	Rank as per ASTM Classification	Heating Value Range (mmmf) (Btu/lb)
BALUCHISTAN:													
Barkhan-Chamalang	0.3 - 2.0	6	1	5		Dev.	1.1 - 2.9	24.9-43.5	19.4-47.1	9.1-36.5	3.0-8.5	hvCb to hvAb	12,500 - 14,357
Duki	0.2 - 2.3	50	14	11	25	Dev.	3.5-11.5	32.0-50.0	28.0-42.0	5.0-38.0	4.0-6.0	SubB to hvAb	10,131 - 14,164
Mach-Abegum	0.6 - 1.3	23	9	-	14	Dev.	7.1-12.0	34.2-43.0	32.4-41.5	9.6-20.3	3.2-7.4	SubA to hvCb	11,110 - 12,937
Sor Range-Degari	0.3 - 1.3	50	15	-	19	Dev.	3.9-18.9	20.7-37.5	41.0-50.8	4.9-17.2	0.6-5.5	SubA to hvBb	11,245 - 13,900
Pir Ismail Ziarat	0.4 - 0.7	12	2	8		Dev.	6.3-13.2	34.6-41.0	19.3-42.5	10.3-37.5	3.2-7.4	SubA to hvCb	10,786 - 11,996
Khost-Sharig-Harnai	0.3 - 2.3	76	13	-	63	Dev.	1.7-11.2	9.3-45.3	25.5-43.8	9.3-34.0	3.5-9.55	SubB to hvAb	9,637 - 15,499
Sub-Total:		217	54	13	134	16							
PUNJAB:													
Makarwal	0.3 - 2.0	22	5	8	9	Dev.	2.8-6.0	31.5-48.1	34.9-44.9	6.4-30.8	2.8-6.3	SubA to hvAb	10,688 - 14,029
Salt Range	0.15 - 1.2	213	50	16	2	145	Dev.	3.2-10.8	21.5-38.8	25.7-44.8	12.3-44.2	SubC to hvAb	9,472 - 15,801
Sub-Total:		235	55	24	11	145							
SINDH:													
Lakhra	0.3 - 3.3	1,328	244	629	455	Dev.	9.7-38.1	18.3-38.6	9.8-38.2	4.3-49	1.2-14.8	LigB to SubC	5,503 - 9,158
Sonda-Thatta	0.3 - 1.5	3,700	60	511	2,197	932	Non-Dev.	22.6-48.0	16.1-36.9	8.9-31.6	2.7-52.0	SubC to hvBb	8,878 - 13,555
Jherruck	0.3 - 6.2	1,823	106	810	907	Non-Dev.	9.0-39.5	20.0-44.2	15.0-58.8	5.0-39.0	0.4-7.7	SubC to hvCb	8,800 - 12,846
Ongar	0.3 - 1.5	312	18	77	217	Non-Dev.	9.0-39.5	20.0-44.2	15.0-58.8	5.0-39.0	0.4-7.7	LigB to SubA	5,219 - 11,172
Indus East	0.3 - 2.5	1,777	51	170	1,556	Non-Dev.	9.0-39.5	20.0-44.2	15.0-58.8	5.0-39.0	0.4-7.7	LigA to SubC	7,782 - 8,660
Metting-Jhimpir	0.3 - 1.0	161	10	43	108	Dev.	26.6-36.6	25.2-34.0	24.1-32.2	8.2-16.8	2.9-5.1	LigA to SubC	7,734 - 8,612
Badin	0.55 - 3.1	850	150	0	200	Non-Dev.							11,415 - 11,521
Thar Coal *	0.2 - 22.81	175,505	7,025	17,130	38,650	112,700	Non-Dev.	29.6-55.5	23.1-36.6	14.2-34.0	2.9-11.5	LigB to SubA	6,244 - 11,045
Sub-Total:		185,456	7,664	19,370	44,290	114,132							
KPK:													
Hangu/Orakzai	0.43 - 0.6	82	1.0	4.5	76	Dev.	0.2-2.5	16.2-33.4	21.8-49.8	5.3-43.3	1.5-9.5	SubA to hvAb	10,500 - 14,149
Cherat/Gulla Khel	0.8 - 1.2	9	0.5	-	8	Dev.	0.1-7.1	14.0-31.2	37.0-76.9	6.1-39.0	1.1-3.5	SubC to hvAb	9,386 - 14,171
Sub-Total:		90	1.5	4.5	84								
Azad Kashmir													
Kotli	0.25 1.0	9	1	1	7	Dev.	0.2-6.0	5.1-32.0	26.3-69.5	3.3-50.0	0.3-4.8	LigA to hvCb	7,336 - 12,338
Sub-Total:		9	1	1	7								
Total:		186,007	7,775.5	19,412.5	44,526	114,293							

* Measured Reserves of Thar have been reduced by GSP after drilling and recalculation to remove overlaps in previous estimates. For Block-wise reserves/resources of Thar, please refer to Table 4.1.1
Coal Rank Abbreviations used: hvAb: High volatile A bituminous coal.

Sub bituminous A coal.
hvBb: High volatile B bituminous coal.
Sub bituminous B coal.

Sub bituminous C coal.
hvCb: High volatile C bituminous coal.
Sub bituminous C coal.

LigA: Lignite A coal.

LigB: Lignite B coal.

LigC: Lignite C coal.

Source: Geological Survey of Pakistan.

For definitions of reserves/resources, please refer to footnotes of Table 4.1.1.

Table: 4.1.1

THAR COAL RESERVES / RESOURCES AS ON JUNE 30, 2019

Specific Block / Field	Area (sq.km.)	Drill Holes	Reserves / Resources (Million Tonnes)				Total
			Measured Reserves	Indicated Reserves	Inferred Reserves	Hypothetical Resources	
Block-I (Sinhar Vikian-Varvia)	122.0	41	620	1,918	1,028	-	3,566
Block-II (Singharo Bhitro)	55.0	43	640	944	-	-	1,584
Block-III (Saleh Jo Tar)	99.5	41	411	1,337	258	-	2,006
Block-IV (Sonal Ba)	80.0	42	637	1,640	282	-	2,559
Sub-Total (Block I-IV)	356.5	167	2,308	5,839	1,568	-	9,715
Rest of Thar coal field	8,643.5	335	4,717	11,291	37,082	112,700	165,790
Total (Thar coal field)	9,000.0	502	7,025	17,130	38,650	112,700	175,505

Mineable Reserves: 60% of Measured Reserves.

Measured Reserves: Having a high degree of geological assurance, coal lies within a radius of 0.4 km from a point of coal measurement.

Indicated Reserves: Having a moderate degree of geological assurance, coal lies within a radius of 0.4 to 1.2 km from a point of coal measurement.

Inferred Reserves: Having a low degree of geological assurance, coal lies within a radius of 1.2 to 4.8 km from a point of coal measurement.

Hypothetical Resources: Undiscovered coal resources, generally extension of inferred reserves in which coal lies beyond 4.8 km from a point of coal measurement.

Source: Geological Survey of Pakistan.

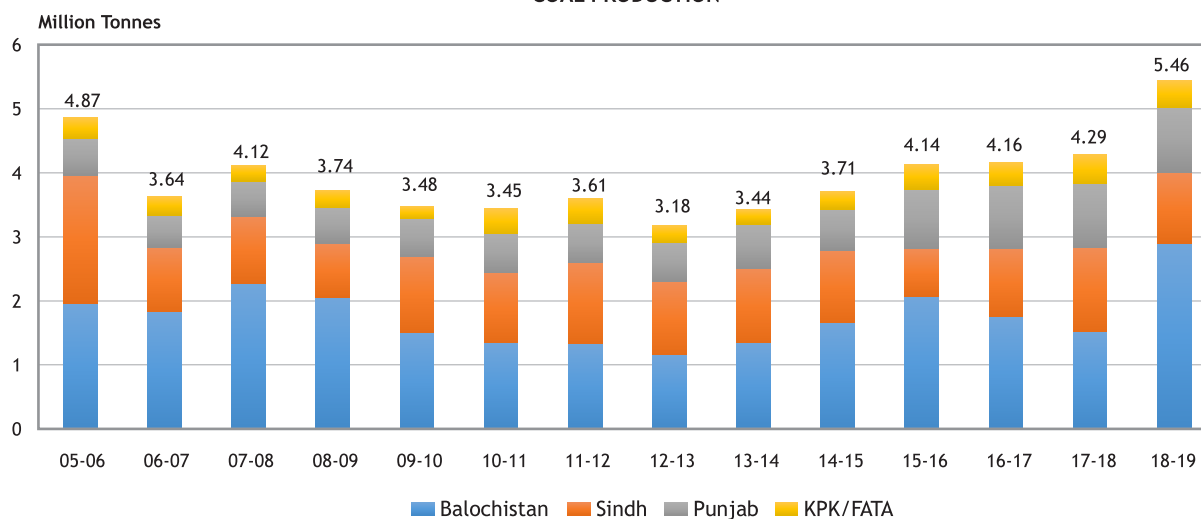
Figure 4.1
COAL PRODUCTION

Table: 4.2

PRODUCTION OF COAL BY FIELD							
							Unit: Tonnes
Province/Field	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
BALUCHISTAN: *							
Sor Range	151,509	162,901	179,270	193,372	168,907	0	-100.0%
Degari	22,750	648	38,777	39,498	56,838	0	-100.0%
Sharigh	240,577	90,358	344,769	229,746	157,235	0	-100.0%
Sinjidi	34,138	113,207	87,606	70,920	84,299	0	-100.0%
Mach	112,684	76,302	144,244	143,856	122,201	0	-100.0%
Harnai-Khost-							
Nasaka-Zardalu/Harnai	161,346	60,042	190,258	192,974	197,122	583,810	29.3%
Duki	273,230	824,837	683,605	556,861	530,255	1,555,302	41.6%
Pir Ismail Ziarat Qta	170,005	139,636	194,033	105,808	74,972	613,195	29.2%
Pir Ismail Ziarat Sibi				49,386	39,915	0	
Abegum	10,633	12,910	48,207	21,851	10,548	0	-100.0%
Barkhan/Chamalong	173,372	181,339	153,204	147,066	81,198	0	-100.0%
Bolan						144,692	
Sub-Total	1,350,244	1,662,180	2,063,973	1,751,338	1,523,490	2,896,999	16.5%
PUNJAB:							
Makerwal/Salt Range	683,689	656,637	935,019	985,313	1,003,182	1,028,843	8.5%
Sub-Total	683,689	656,637	935,019	985,313	1,003,182	1,028,843	8.5%
SINDH:							
Lakhra	1,158,575	1,116,699	745,493	1,061,854	1,280,957	1,100,058	-1.0%
Jhampir	4,775	5,614	6,631	6,784	29,662	12,626	21.5%
Sub-Total	1,163,350	1,122,313	752,124	1,068,638	1,310,619	1,112,684	-0.9%
KPK/FATA							
Makerwal/Gulakhel/	84,186	86,528	87,868	80,072	56,599	80,924	-0.8%
Kohat, FATA	156,828	183,903	302,550	279,565	403,305	343,200	17.0%
Sub-Total	241,014	270,431	390,418	359,637	459,904	424,124	12.0%
Total: Tonnes	3,438,297	3,711,561	4,141,534	4,164,926	4,297,195	5,462,650	9.7%
TOE	1,538,294	1,660,552	1,852,922	1,863,388	1,922,565	2,443,990	
Annual growth rate	8.15%	7.95%	11.58%	0.56%	3.18%	27.12%	

* Field wise coal production during 2018-19 is not available. However, district wise coal production during 2018-19 is provided.

Source: DG(Minerals), Provincial Directorates of Mineral Development.

Table 4.3

IMPORT OF COAL *							
Unit	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Tonnes	3,119,155	5,003,806	4,885,260	7,020,844	13,683,895	15,685,874	38.1%
TOE	2,052,092	3,292,004	3,214,013	4,619,013	9,002,635	10,319,737	
Import value (Million Rs)	(31,072)	(52,762)	(47,415)	(81,280)	(154,795)	(154,795)	
Annual growth rate of imports	-15.92%	60.42%	-2.37%	43.71%	94.90%	14.63%	

* Includes coal imported by Pak Steel for use as coke.

Source: DG (Minerals), Pakistan Bureau of Statistics, Pakistan Steel Mills Corporation.

Table: 4.4

CONSUMPTION OF COAL BY SECTOR

Unit: Tonnes
TOE

Sector	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Brick-Kiln Industry *	2,727,587	3,010,381	3,337,102	2,855,326	3,941,689	5,391,194	14.6%
	1,220,322	1,346,844	1,493,019	1,277,473	1,763,512	2,412,020	
Cement / Other Industry **	3,559,178	5,168,806	5,485,260	7,470,844	9,603,276	10,234,338	23.5%
	2,225,808	3,284,782	3,482,453	4,820,343	7,176,966	7,880,719	
Pak Steel***	109,977	385,000	0	0	0	0	
	72,354	253,292	0	0	0	0	
Power (WAPDA + IPPs)	160,710	151,180	204,432	859,600	4,436,125	5,901,536	105.6%
	71,902	67,638	91,463	384,585	1,984,722	2,640,347	
Total: Tonnes	6,557,452	8,715,367	9,026,794	11,185,770	17,981,090	21,527,068	26.8%
TOE	3,590,386	4,952,556	5,066,935	6,482,401	10,925,200	12,933,087	
Annual growth rate	-4.81%	32.91%	3.57%	23.92%	60.75%	19.72%	

Note: Sectoral consumption data of coal is mostly not available, except for power sector and has, therefore, been estimated.

* Estimated by deducting other uses of indigenous coal from the total production.

** Include indigenous as well as imported coal.

*** Imported coal/coke used as coke in Pak Steel.

Source: Cement Factories, DG (Minerals), PBS, Pak Steel, PMDC, WAPDA.

Table: 4.5

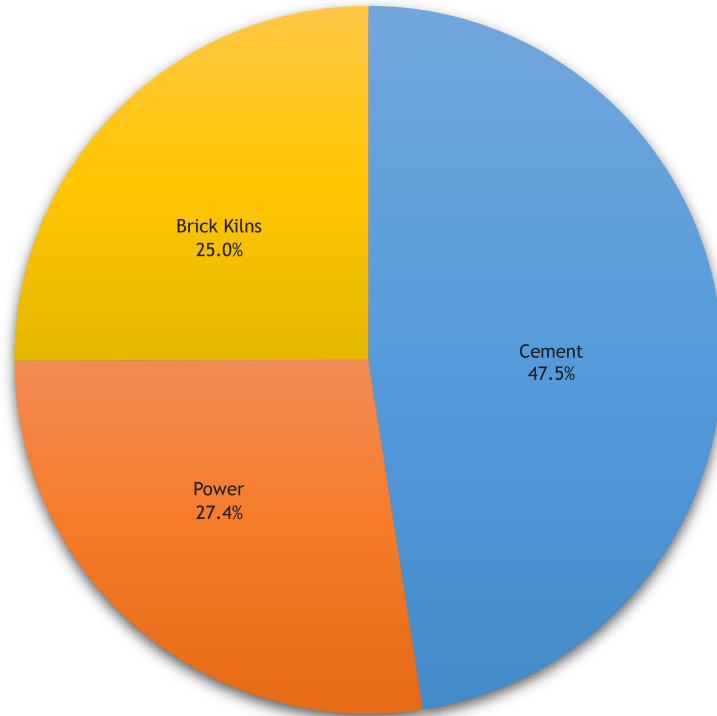
PMDC'S AVERAGE SELLING PRICE OF COAL

Unit: Rupees/Tonne

Mine (Province)	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
Degari (Balochistan)	8,651.00	8,031.00	9,240.00	9,906.00	9,800.00	10,450.00
Sor Range (Balochistan)	9,021.00	8,339.00	9,692.00	9,981.00	10,017.00	13,509.00
Sharigh (Balochistan)	8,168.00	8,168.00	10,094.00	9,973.00	11,600.00	10,260.00
Lakhra (Sindh)	2,139.00	2,139.00	2,026.00	3,975.00	3,983.00	4,262.00

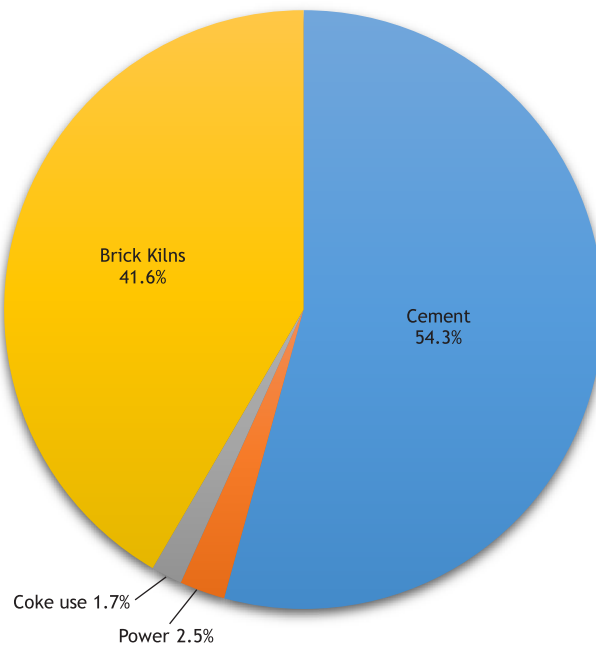
Source: PMDC.

Figure 4.2
COAL CONSUMPTION BY SECTOR
2018-19
Total: 21.53 Million Tonnes



* Includes other industry also

2013-14
Total: 6.56 Million Tonnes



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Part 5

electricity

2018-19

■	Installed Capacity	35,114 MW
■	Generation	128,532 GWh
■	Import	487 GWh
■	Consumption	109,461 GWh

Table: 5.1
ELECTRICITY INSTALLED CAPACITY AS ON 30TH JUNE

Type/Power Station	2014	2015	2016	2017	2018	2019
Unit: MW						
A.1 HYDEL (WAPDA):						
Tarbela	3,478	3,478	3,478	3,478	3,478	3,478
T-4th	—	—	—	—	—	1,410
Ghazi Barotha	1,450	1,450	1,450	1,450	1,450	1,450
Mangla	1,000	1,000	1,000	1,000	1,000	1,000
Warsak	243	243	243	243	243	243
Chashma	184	184	184	184	184	184
DKHP	—	130	130	130	130	130
Golen Gol	—	—	—	—	—	108
Jinnah	96	96	96	96	96	96
AKHP	121	121	121	121	121	121
Dargai	20	20	20	20	20	20
New Jabban	22	22	22	22	22	22
Gomal Zam	17	17	17	17	17	17
Rasul	22	22	22	22	22	22
Shadiwal	14	14	14	14	14	14
Chichoki Malian	13	13	13	13	13	13
Nandipur	14	14	14	14	14	14
Kurram Garhi	4	4	4	4	4	4
Renala	1	1	1	1	1	1
Chitral	1	1	1	1	1	1
KKHP	72	72	72	72	72	72
A.2 HYDEL (AJKHEB)						
Jagran	30	30	30	30	30	30
Others	7	14	7	14	21	6
A.3 HYDEL (IPPs)						
New Bong Escape Hydro	84	84	84	84	84	84
Pehur	—	—	18	18	18	18
Malakand-III	—	—	81	81	81	81
Machai	—	—	—	—	3	—
Hydel Sub-Total	6,893	7,030	7,122	7,129	7,139	8,639
B.1 THERMAL (WAPDA):						
GTPS Shahdra**	59	59	44	—	—	—
SPS Faisalabad	132	132	132	132	132	132
GTPS Faisalabad	244	244	244	244	244	244
NGPS Multan	195	195	195	—	—	—
TPS Muzaffar Garh	1,350	1,350	1,350	1,350	1,350	1,350
TPS Guddu	1,655	1,655	2,402	2,402	2,402	2,402
GTPS Kotri	174	174	144	144	174	174
TPS Jamshoro	850	850	850	850	880	880
FBC Lakhra	150	150	150	50	50	50
TPS Quetta	35	35	35	35	35	35
GTPS Panjgur	39	39	39	39	39	39
TPS Pasni	17	17	17	17	17	17
CCPP Nandipur	—	—	425	425	425	425
Thermal WAPDA Sub-Total	4,900	4,900	6,027	5,688	5,748	5,748
B.2 THERMAL (K-Electric):						
TPS Korangi						
GTPS Korangi Town	88	107	107	107	107	107
GTPS Site	88	107	107	107	107	107
TPS Bin Qasim	1,260	840	1,260	1,260	1,260	1,260
Korangi CCP	220	248	248	248	248	248
TPS Bin Qasim-II	560	573	573	573	573	573
Thermal K-Electric Sub-Total	2,216	1,875	2,295	2,295	2,295	2,295
B.3 THERMAL (IPPs):						
AES Lalpir	362	362	362	362	362	362
AES Pak Gen	365	365	365	365	365	365
Altern Energy	31.2	31.2	31.2	31.2	31	31
Attock Gen	165.3	165.3	165.3	165.3	165	165
Atlas Power	213.9	213.9	213.9	219.2	219	219
Baloki	—	—	—	—	1,320	1,320
Devis Energen	—	—	11.0	11.0	11	11
Engro Energy	217.3	217.3	217.3	217.3	217	217

Contd...

INSTALLED CAPACITY OF ELECTRICITY GENERATION AS ON 30TH JUNE (Contd.)

Unit: MW

Type/Power Station	2014	2015	2016	2017	2018	2019
Fauji Kabirwala	157	157	157	157	157	157
Foundation Power	185	185	185	185	185	185
Gul Ahmed	136	136	136	136	136	136
Gulf Power Gen	—	—	—	—	62	62
Habibullah	140	140	140	140	140	140
Haveli Bahdur Shah PP	—	—	—	1,230	1,230	1,230
Halmore Power	225	225	225	225	225	225
HUBCO	1,292	1,292	1,292	1,292	1,292	1,292
HUB Power, Narowal	225	219	214	214	214	214
Japan Power	135	135	135	135	135	135
KAPCO	1,466	1,466	1,466	1,466	1,466	1,466
Kohinoor Energy	131	131	131	131	131	131
Liberty Tech Power	200	200	202	202	202	202
Nishat Chunian	200	200	200	200	200	200
Nishat Power	200	200	200	200	200	200
Orient Power	213	213	213	213	213	213
Port Qasim	—	—	—	—	1,320	1,320
Quaid-e-Azam Thermal PP	—	—	—	1,180	1,180	1,180
Reshman	—	—	—	—	97	97
Rousch Power	450	450	450	450	450	450
Saba Power	134	134	134	134	134	134
Sahiwal Coal Fire Plant	—	—	—	1,320	1,320	1,320
Saif Power	229	229	225	225	225	225
Southern Electric	135	135	136	136	136	136
Sapphire Electric	212	212	235	212	212	212
Tapal Energy	126	126	126	126	126	126
TNB Liberty Power	235	235	235	235	235	235
Uch Power	586	586	586	586	586	586
Uch-II Power	404	404	404	404	404	404
Thermal Private Sub-Total	8,771	8,766	8,793	12,505	15,304	15,304
C. NUCLEAR:						
KANUPP	100	100	100	100	100	100
CHASNUPP-I	325	325	325	325	325	325
CHASNUPP-II	325	325	325	325	325	325
CHASNUPP-III	—	—	—	340	340	340
CHASNUPP-IV	—	—	—	—	340	340
Nuclear Sub-Total	750	750	750	1,090	1,430	1,430
Renewable Sub-Total		438	902	1,237	1,637	1,698
Grand Total:	23,531	23,759	25,889	29,944	33,554	35,114
Of which:						
Thermal-Total:	15,887	15,541	17,115	20,488	23,347	23,347

Source: AJKHEB, IPPs, K-Electric, PAEC, WAPDA.

** Installed Capacity as on 31-Mar-2016.

Figure 5.1
ELECTRICITY INSTALLED CAPACITY BY TYPE

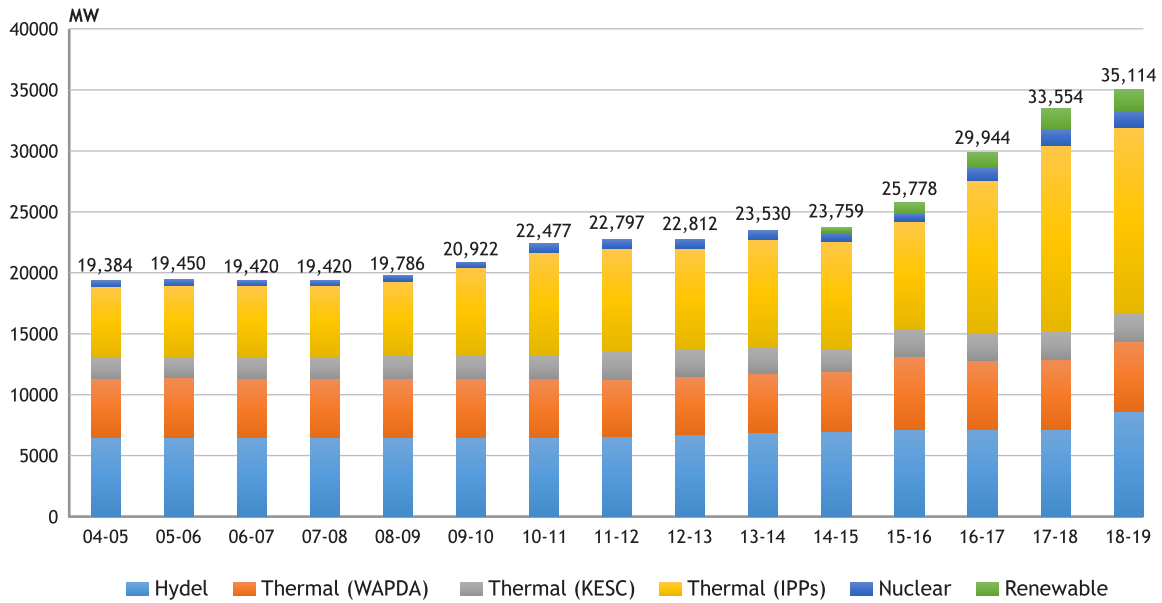
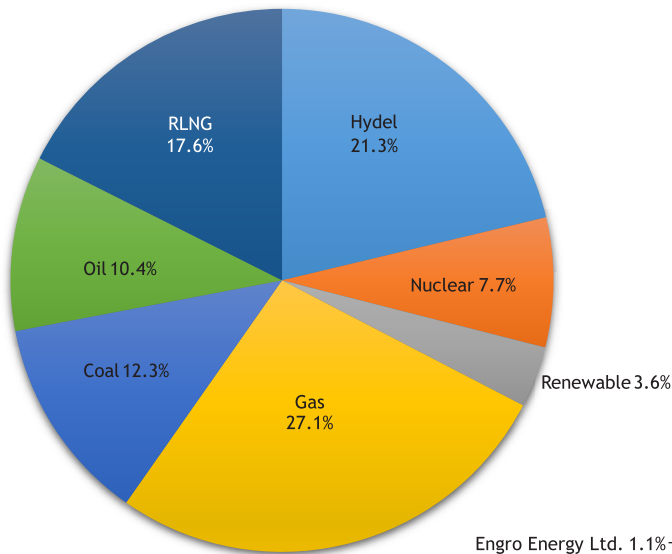


Figure 5.2
ELECTRICITY GENERATION 2018-19
Total: 128,532 GWh



BY COMPANY

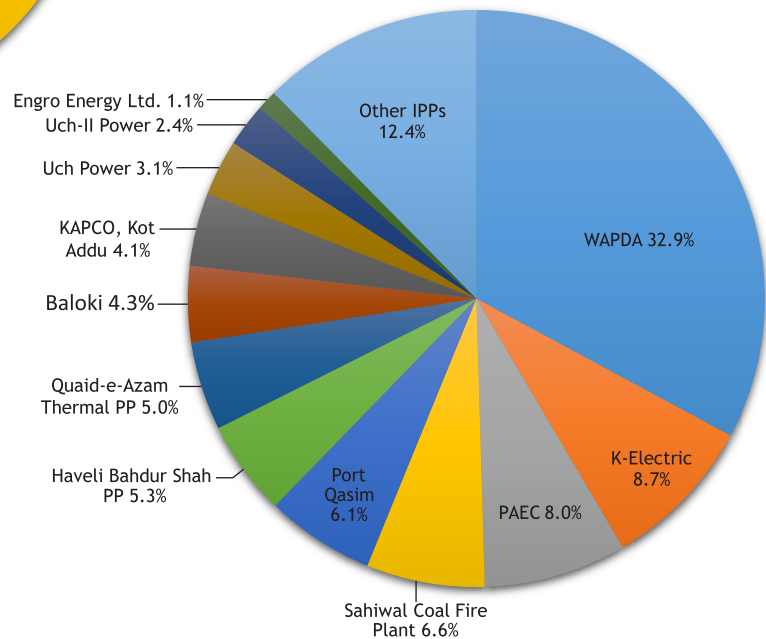


Table: 5.2

GROSS GENERATION BY SOURCE AND IMPORT OF ELECTRICITY							
							Unit: GWh
Source	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Hydel: WAPDA	31,254	31,824	33,433	31,091	26,995	26,414	-3.3%
AJKPDO	149	161	172	152	144	130	-2.7%
PEDO/IPP	470	489	1,028	940	786	795	11.1%
Hydel-Total:	31,873	32,474	34,634	32,183	27,925	27,339	-3.0%
Thermal: WAPDA	14,236	12,133	13,917	19,571	16,193	13,378	-1.2%
K-Electric	8,709	9,318	10,323	10,147	10,338	10,727	4.3%
IPPs	43,761	46,435	46,272	51,550	63,082	62,496	7.4%
Thermal-Total:	66,707	67,886	70,512	81,268	89,614	86,602	5.4%
Nuclear: KANUPP	328	404	430	491	419	175	-11.8%
CHASNUPP-I	2,376	2,656	1,616	2,293	2,627	2,294	-0.7%
CHASNUPP-II	2,386	2,744	2,560	2,501	2,484	2,448	0.5%
CHASNUPP-III				1,714	2,432	2,694	
CHASNUPP-IV					1,918	2,298	
Nuclear- Total:	5,090	5,804	4,605	6,999	9,880	9,909	14.3%
Renewable - Total:		802	1,549	2,668	3,857	4,682	
Total Generation	103,670	106,966	111,300	123,118	131,275	128,532	4.4%
Imported:*	419	443	463	496	556	487	3.1%
Total Electricity Supply:	104,089	107,408	111,763	123,614	131,831	129,019	4.4%
Of which:							
WAPDA	45,490	44,607	47,350	51,754	43,188	39,793	-2.6%
Annual growth rate of Total	7.85%	3.18%	4.05%	10.62%	6.63%	-2.09%	

* WAPDA has been importing electricity from Iran since Oct-2002.

Source: IPPs, PAEC, K-Electric, WAPDA, AJKPDO, PEDO, CPPA.

Table: 5.3

THERMAL ELECTRICITY GENERATION BY FUEL							
							Unit: GWh
Fuel	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Coal	157	145	148	279	10,911	15,774	151.5%
Oil	39,880	39,390	35,362	39,563	29,501	13,392	-19.6%
RLNG					9,768	22,590	
Gas	26,670	28,352	35,001	41,426	39,435	34,846	5.5%
Total:	66,707	67,886	70,512	81,268	89,614	86,602	5.4%
Annual growth rate	8.09%	1.77%	3.87%	15.25%	10.27%	-3.36%	

Source: IPPs, K-Electric, WAPDA.

Table: 5.4

FUEL CONSUMPTION FOR THERMAL POWER GENERATION							
							Unit: TOE
Fuel	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Coal	71,902	67,638	91,463	384,585	1,984,722	2,640,347	105.6%
Furnace Oil	8,486,744	8,234,479	7,288,400	8,037,139	6,029,947	2,661,528	-20.7%
Diesel Oil	304,994	565,953	294,755	291,841	194,033	27,383	-38.2%
Gas	6,602,422	6,847,894	8,577,146	8,643,403	10,831,662	10,050,101	8.8%
Total:	15,466,061	15,715,963	16,251,764	17,356,967	19,040,365	15,379,360	-0.1%
Annual growth rate	5.40%	1.62%	3.41%	6.80%	9.70%	-19.23%	

Table: 5.5

ELECTRICITY CONSUMPTION BY SECTOR							
(PUBLIC UTILITIES ONLY)							
							Unit: GWh TOE
Sector	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Domestic	39,549 3,220,860	41,450 3,375,647	44,486 3,622,967	48,698 3,965,972	54,028 4,400,021	53,685 4,372,102	6.3%
Commercial	6,375 519,195	6,512 530,331	7,181 584,855	7,856 639,808	8,606 700,907	8,513 693,306	6.0%
Industrial	24,356 1,983,592	24,979 2,034,309	25,035 2,038,889	24,010 1,955,361	27,468 2,236,985	28,760 2,342,205	3.4%
Agriculture	8,290 675,099	8,033 654,221	8,526 694,395	9,221 750,993	10,128 824,859	9,809 798,870	3.4%
Street Light	458 37,274	441 35,925	459 37,410	484 39,430	475 38,647	451 36,769	-0.3%
Bulk Supplies	4,313 351,271	4,334 352,929	4,666 379,990	5,018 408,662	5,515 449,104	5,622 457,891	5.4%
General Services *	-	-	-	-	-	1 112	
Other Govt. **	68 5,503	69 5,648	76 6,197	242 19,714	708 57,628	2,618 213,235	107.8%
Total: GWh	83,409	85,818	90,431	95,530	106,927	109,461	5.6%
TOE	6,792,794	6,989,011	7,364,702	7,779,939	8,708,151	8,914,489	
Annual growth rate	8.62%	2.89%	5.38%	5.64%	11.93%	2.37%	

Source: WAPDA, K-Electric, AJKPDO.

* Introduction of General Services Category post notification of K-Electric's MYT on May 22, 2019.

** Other Govt. includes Railway Traction & Co-Generation.

Table: 5.6

ELECTRICITY CONSUMPTION BY REGION / PROVINCE							
(PUBLIC UTILITIES ONLY)							
							Unit: GWh TOE
Sector	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Punjab	52,088 4,242,047	53,249 4,336,599	57,245 4,662,033	60,940 4,962,954	69,718 5,677,834	71,735 5,842,098	6.6%
Sindh	17,839 1,452,812	18,997 1,547,082	19,213 1,564,714	19,479 1,586,372	20,850 1,698,051	21,016 1,711,553	3.3%
KPK	8,837 719,685	8,700 708,528	8,812 717,649	9,660 786,710	10,278 837,040	10,677 869,535	3.9%
Balochistan	3,744 304,911	3,994 325,271	4,220 343,677	4,452 362,571	4,915 400,278	4,778 389,120	5.0%
AJK	901 73,338	878 71,531	941 76,629	999 81,333	1,166 94,949	1,255 102,183	6.9%
Total: GWh	83,409	85,818	90,431	95,530	106,927	109,461	5.6%
TOE	6,792,794	6,989,011	7,364,702	7,779,939	8,708,151	8,914,489	

Source: WAPDA, K-Electric, AJKED.

Table 5.7

SECTORAL ELECTRICITY CONSUMPTION BY REGION / PROVINCE 2018-19

(PUBLIC UTILITIES ONLY)

Unit: GWh
TOE

Sector	Punjab	Sindh	KPK	Balochistan	AJK	Total
Domestic	35,239.0 2,869,864	11,051.8 900,061	6,042.0 492,060	557.0 45,362	795.1 64,754	53,684.9 4,372,102
Commercial	5,201.0 423,569	2,285.6 186,137	797.0 64,908	127.0 10,343	102.5 8,348	8,513.1 693,306
Industry	20,270.0 1,650,789	5,575.1 454,037	2,670.0 217,445	172.0 14,008	72.8 5,926	28,759.9 2,342,205
Agriculture	5,631.0 458,589	508.3 41,396	103.0 8,388	3,567.0 290,496	-	9,809.3 798,870
Street Light	221.0 17,998	208.5 16,979	13.0 1,059	9.0 733	-	451.5 36,769
Bulk Supplies	3,988.0 324,783	830.4 67,631	677.0 55,135	127.0 10,343	-	5,622.4 457,891
General Services *		1.4 112				1.4 112
Other Govt.	1,185.0 96,506	555.0 45,199	375.0 30,540	219.0 17,835	284.3 23,154	2,618.3 213,235
Total: GWh	71,735.0	21,016.1	10,677.0	4,778.0	1,254.7	109,460.8
TOE	5,842,098	1,711,553	869,535	389,120	102,183	8,914,489

* Introduction of General Services Category post notification of K-Electric's MYT on May 22, 2019.

Source: K-Electric, WAPDA and AJKED.

Table: 5.8

AUXILIARY CONSUMPTION BY SOURCE

Unit: MWh

Source	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Hydel	364,890	498,580	252,585	296,003	226,389	204,461	-10.9%
Thermal	3,155,660	3,017,335	3,449,909	3,576,646	2,863,911	1,905,722	-9.6%
Nuclear	236,779	468,199	420,606	629,760	703,110	682,310	23.6%
Total:	3,757,329	3,984,114	4,123,100	4,502,409	3,793,411	2,792,493	-5.8%

Source: IPPs, PAEC, K-Electric, WAPDA.

Table: 5.9

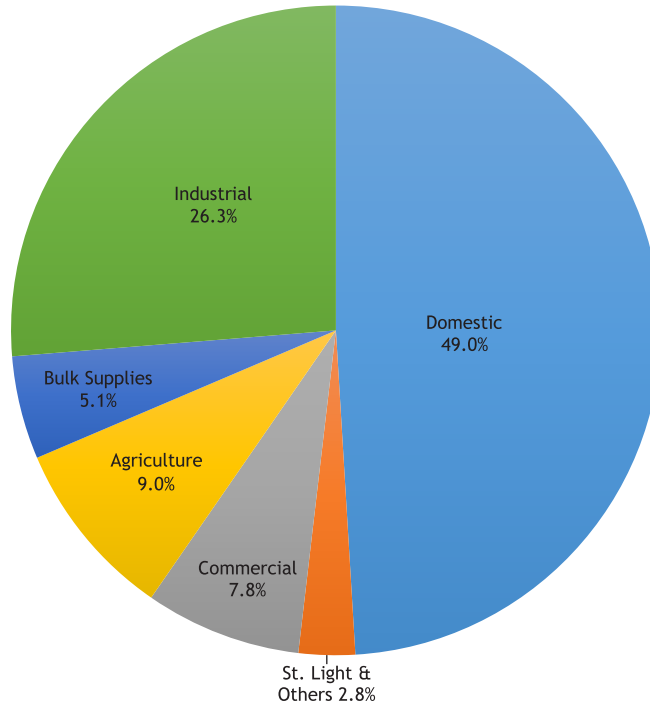
ELECTRICITY BALANCES

(PUBLIC UTILITIES ONLY)

Unit: GWh

Source	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	ACGR
Total Generation	103,670	106,966	111,300	123,118	131,275	128,532	4.4%
Auxiliary Consumption	3,757	3,984	4,123	4,502	3,793	2,792	-5.8%
Net purchases from PASMIC	9	21	0	0	0	0	
Imported	419	443	463	496	556	487	3.1%
Net Supply	100,340	103,445	107,640	119,112	128,037	126,226	4.7%
Consumption	83,409	85,818	90,431	95,530	106,927	109,461	5.6%
T & D Losses	16,932	17,627	17,209	23,582	21,110	16,765	-0.2%
(as % of Net Supply)	16.9%	17.0%	16.0%	19.8%	16.5%	13.3%	-4.7%

Figure 5.3
ELECTRICITY CONSUMPTION BY SECTOR
2018-19
Total: 109,461 GWh



2013-14
Total: 83,409 GWh

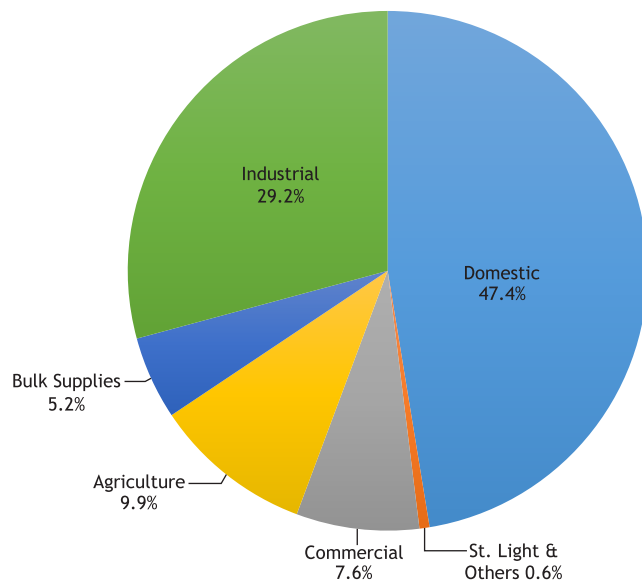


Table: 5.10

ENERGY DATA OF HYDEL POWER STATIONS (2018-19)

Power Station	Installed Generation Capacity (MW)	Units Generated (GWh)	Overall Cost of Generation (Ps/KWh)	Auxiliary Consum. (GWh)	Maximum Load (MW)	Minimum Load (MW)	Load Factor (%)	Capacity Factor (%)	Utilization Factor (%)
A. WAPDA									
Tarbela	3,478.0	10,619.28		30.56	3,461.0		34.93	99.51	34.76
T-4TH	1,410.0	1,556.24			1,098.0				
Ghazi Brotha	1,450.0	6,552.14		75.82	1,450.0		51.44	100.00	51.44
Mangla	1,000.0	3,860.85		58.07	920.0		47.78	92.00	43.95
Warsak	243.0	1,002.27		2.54	216.0		52.83	88.90	46.96
Chashma	184.0	767.16		5.29	122.0		71.59	66.30	47.46
DKHP	130.0	594.42		2.48	130.0		52.05	100.00	52.05
Golen Gol	108.0	72.15		1.94	108.0		7.60	100.00	
Jinnah	96.0	225.63		6.26	63.7		40.32	66.35	26.76
AKHP	121.0	462.09		0.87	121.0		43.48	100.00	43.48
Dargai	20.0	109.35		0.30	22.0		56.58	110.00	62.24
New Jabban	22.0	135.99		0.25	22.0		70.37	100.00	70.37
Gomal Zam	17.4	32.68		1.12	8.4		44.29	48.28	21.38
Rasul	22.0	71.86		2.83	14.5		56.42	65.91	37.18
Shadiwal	13.5	28.39		0.73	5.4		59.85	40.00	23.94
Chichoki Malian	13.2	29.05		0.79	6.5		50.89	49.24	25.06
Nandipur	13.8	36.97		1.85	9.2		45.74	66.67	30.49
Kurram Garhi	4.0	14.23		0.15	4.0		40.51	100.00	40.51
Renala	1.1	2.19		0.05	0.6		41.48	54.55	22.63
Chitral	1.0	3.51		0.01	0.8		50.02	80.00	40.01
KKHP	72.0	237.74		4.52	72.0		37.59	100.00	37.59
WAPDA Sub-total:	8,420.0	26,414.2		196.4					
B. AJKPDO									
Kathai	3.2	11.78		0.01	1.7	0.97	78.22	53.56	41.90
Kundal Shahi*									
Jagran	30.4	108.56		0.11	26.5	1.53	46.71	87.04	40.65
Leepa	1.6	7.62		0.01	1.1	0.55	79.02	68.63	54.23
Kel	0.8	2.44		0.00	0.4	0.16	73.15	50.53	36.97
AJKPDO Sub-total:	36.0	130.4		0.1					
C. Private Sector									
New Bong Escape Hydro	84.0	354.38	653.0	2.27	90.0	7.35	44.83	107.14	48.03
Pehur	18.0	39.02	401.8	3.61	7.0	0.88	63.47	38.89	24.68
Malakand-III	81.0	401.28	430.9	2.03	80.0	14.00	57.10	98.77	56.40
IPP Sub-total:	183.0	794.7		7.9					
Total:	8,638.9	27,339.3		204.5					

Source: WAPDA, AJKPDO, Hydel IPP (New Bong Escape Hydro), PEDO.

* Power Station is on shut down mode due to installation, erection, testing and commissioning of new equipment.

Table: 5.11
ENERGY DATA OF THERMAL POWER STATIONS (2018-19)

Power Station	Installed Generation Capacity (MW)	Units Generated From					Total Units Generated (GWh)	Average Fuel Cost (Ps/KWh)	Overall Cost of Generation (Ps/KWh)	Auxiliary Consum. (GWh)	Maximum Load (MW)	Load Factor (%)	Capacity Factor (%)	Utilization Factor (%)
		Gas (GWh)	FO (GWh)	HSD (GWh)	RLNG (GWh)	Coal (GWh)								
WAPDA														
GTPS Shahdra	132								0.33	113		85.61		
SPS Faisalabad	244	157.2				157.16	1,784.80	2,029.55	9.74	119	15.08	48.77	8.54	
NGPS Multan														
TPS Multan Cantt.	1,350		923.1		0.5	942.72	1,738.18	2,197.68	115.42	1105	9.74	81.85	10.25	
TPS Muzaffar Garh	640	11.7				11.72	599.89	20,970.26	1.69	1560	0.09	243.75	0.96	
TPS Guddu (unit 1-4)	1,762	9,445.3				9,445.29	524.84	686.46	200.49	1625	66.35	92.22	69.25	
TPS Sukkur														
GTPS Kotri	174	40.8				40.80	367.27	2,577.40	3.84	81	5.75	46.55	3.88	
CCPP Nandipur	425	1,493.5			290.8	1,784.29	592.12	1,090.70	56.95	561	36.31	132.00	44.28	
FBC Lakhra	50								9.00					
TPS Jamshoro	880	408.5	397.9		190.0	996.35	1,196.65	1,795.52	117.76	550	20.68	62.50	16.02	
TPS Quetta	35								0.31					
TPS Pansi	17								0.01					
GTPS Panjgur	39								0.04					
WAPDA Sub-total:	5,748	11,576.0	1,321.0	481.3	481.3	13,378.33	683.74	981.42	515.59					
K-Electric														
TPS Korangi														
GTPS Korangi Town	107	259.1			136.2	395.33	820.27	n.a.	14.71	97	46.52	90.65	42.18	
GTPS Site	107	253.7			114.3	368.02	758.43	n.a.	12.78	97	43.31	90.65	39.26	
TPS Bin Qasim	1,260	854.5	3,362.0		429.7	4,646.18	1,596.87	n.a.	429.18	1015	52.25	80.56	42.09	
Korangi CCP	248	823.3			428.4	1,251.68	736.57	n.a.	92.34	234	61.06	94.35	57.62	
TPS Bin Qasim II	573	2,510.2			1,555.5	4,065.70	766.59	n.a.	249.75	555	83.63	96.86	81.00	
K-Electric Sub-total:	2,295	4,700.9	3,362.0	2,664.1	2,664.1	10,726.91	1,124.41	798.77						
PRIVATE SECTOR														
AES Lalpir, M. Garh*	360		613.8			613.80		n.a.						
AES Pak Gen, M. Garh*	365		495.6			495.56		n.a.						
Altern Energy*	31		21.0			21.03		n.a.						
Attock Gen	165		519.1			519.07		n.a.		158.1	37.48	37.94	52.93	
Atlas Power	219		668.0			668.02		n.a.		214.8	35.66	35.66	39.31	
Davis Energen*	11					-		n.a.						
Engro Energy Ltd.	217	1,385.1				1,385.12	735.24	783.97	43.20	220	79.00	96.00	83.00	
Fauji Kabirwala	157	581.1				581.13	1,202.50	1,379.20	18.01	155.0	54.71	43.81	44.67	

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ENERGY DATA OF THERMAL POWER STATIONS 2018-19 (Contd.)

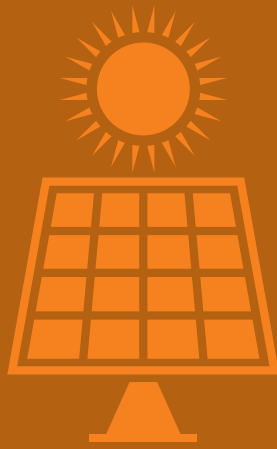
Power Station	Installed Generation Capacity (MW)	Units Generated From					Total Units Generated (GWh)	Average Fuel Cost (Ps/KWh)	Overall Cost of Generation (Ps/KWh)	Auxiliary Consum. (GWh)	Maximum Load (MW)	Load Factor (%)	Capacity Factor (%)	Utilization Factor (%)
		Gas (GWh)	FO (GWh)	HSD (GWh)	RLNG (GWh)	Coal (GWh)								
Foundation Power	185	1,331.4		0.4		1,331.79	n.a.	739.17	34.51	197.81	90.87	90.87	89.70	
Gul Ahmed, Karachi	136		699.2			699.17	n.a.	n.a.	19.85	127.50	95.47	60.63	88.33	
Habibullah*	140	719.1				719.05	492.38	n.a.	21.48	129.2	74.71	65.15	95.77	
Haveli Bahdur Shah pp*	1,230				6,589.4	6,589.44								
Halmore Power*	225			3.2	609.7	612.91	1,225.82	n.a.						
HUBCO, Hub	1,292		827.0			827.00	1,641.11	n.a.	72.00	1,200.0	7.87	34.00	945.00	
Hub Power, Narowal	214		636.1			636.13	1,315.76	n.a.	12.95	213.82	34.00	34.00	36.00	
Japan Power	135													
KAPCO, Kot Addu	1,466	3,599.5	1,458.0	16.8		5,074.16		n.a.	119.88	1,506.0	42.20	91.80	46.00	
Kohinoor Energy, Lahore	131		399.9			399.89		n.a.	12.45	124.0	88.7	35.7	39.1	
Liberty Power Tech*	202		776.3			776.26	n.a.	n.a.						
Nishat Chunian Power*	200		599.73861			599.74		n.a.						
Nishat Power*	200		693.8			693.84		n.a.	18.73	174.6	39.46	99.38	39.46	
Orient Power	213	874.5		3.4		877.84		n.a.	22.17	218.0	63.68	50.05		
Quaid-e-Azam Thermal pp*	1,180			1.1	6,148.7	6,149.75		n.a.						
Roush Power	450	1,035.8				1,035.85	1,198.04	1,593.34	28.41	395.0	41.52	29.94	45.32	
Saba Power	134		242.6			242.56		n.a.	16.33	134.0	23.73	20.57	20.57	
Sahiwal Coal Fire Plant*	1,320					8,220.19								
Saif Power*	225			2.8	825.4	828.20		n.a.	n.a.					
Southern Electric	136							n.a.						
Sapphire Electric	212	827.6		2.9		830.50	1,076.28	n.a.	24.44	217.0	46.83	43.20	43.20	
Tapal Energy, Karachi	126							n.a.						
TNB Liberty Power	235	1,307.6				1,307.61	1,014.95	1,240.17	31.62	228.0	71.23	69.67	78.39	
Uch Power	586	3,893.3		0.1		3,893.34			27.53	588.0	80.99	82.27	88.91	
Uch-II Power	404	3,014.4		0.1		3,014.51			67.81	394.0	93.97	94.71	95.95	
Gulf Power Gen*	62													
Reshman*	97		15.1			15.11								
Balokt*	1,320			12.9	5,271.3	5,284.19								
Port Qasim*	1,320					7,553.64								
IPPs Sub-total:	15,304	18,569	8,665	44	19,444	62,496	9,902	591						
Total Thermal:	23,347	34,846.2	13,348.1	43.7	22,589.8	86,601.61	342.87	1,905.72						

Source: IPPs, K-Electric, WAPDA. * Source: NEPRA's website: CPPA Monthly Purchase Data Reports.

IPPs of WAPDA

IPPs of K-Electric

n.a.: Not available



Part 6 renewable energy

2018-19

■	Installed Capacity	1,698 MW
■	Generation	4,682 GWh

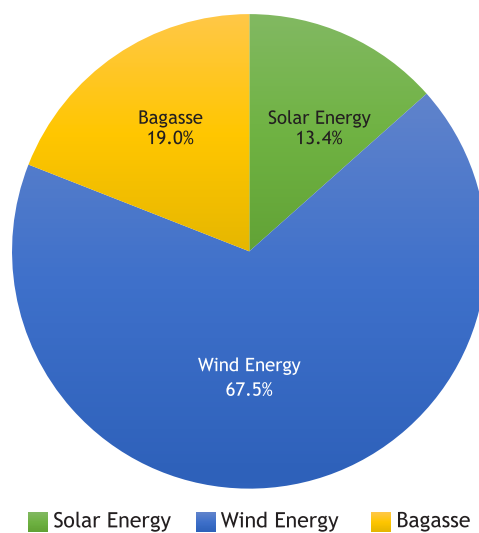
Table: 6.1

ELECTRICITY GENERATION BY RENEWABLE ENERGY PROJECTS (2018-19)

Technology	Capacity (MW)	Generation (GWh)
Solar Energy	430	629
Wind Energy	1,049	3,161
Bagasse	219	891
Total:	1,698	4,682

Source: Central Power Purchase Agency (CPPA)

Figure 6.1
ELECTRICITY GENERATION BY RENEWABLE PROJECTS
2018-19
Total: 4,682 GWh



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Part 7

appendices

Appendix: 7.1

OIL & GAS EXPLORATORY WELLS DRILLED IN PAKISTAN

(IN CHRONOLOGICAL ORDER)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
1	Kundal	1	PUN	0/0/1868	Punjab					Abandoned
2	Sadkal	1	GOI	0/0/1870	Punjab					Abandoned
3	Sadkal	2	GOI	0/0/1870	Punjab					Abandoned
4	Sadkal	3	GOI	0/0/1870	Punjab					Abandoned
5	Sadkal	4	GOI	0/0/1870	Punjab					Abandoned
6	Sadkal	5	GOI	0/0/1870	Punjab					Abandoned
7	Khattan	3	TOWN	0/0/1884	Baloch.					Abandoned
8	Khattan	1	TOWN	0/0/1885	Baloch.					Abandoned
9	Khattan	2	TOWN	0/0/1885	Baloch.					Abandoned
10	Khattan	7	TOWN	0/0/1885	Baloch.					Abandoned
11	Khattan	4	TOWN	0/0/1887	Baloch.					Abandoned
12	Khattan	5	TOWN	0/0/1888	Baloch.					Abandoned
13	Khattan	6	TOWN	0/0/1888	Baloch.					Abandoned
14	Khattan	8	TOWN	0/0/1889	Baloch.					Abandoned
15	Khattan	9	TOWN	0/0/1889	Baloch.					Abandoned
16	Khattan	10	TOWN	0/0/1889	Baloch.					Abandoned
17	Khattan	11	TOWN	0/0/1889	Baloch.					Abandoned
18	Spintangi	1	GOB	0/0/1890	Baloch.					Abandoned
19	Khattan	12	TOWN	0/0/1891	Baloch.					Abandoned
20	Khattan	13	TOWN	0/0/1891	Baloch.					Abandoned
21	Sukur	1	GOI	0/0/1893	Sindh					Abandoned
22	Kundal	2	PUN	20-Sep-00	Punjab	640				Abandoned
23	Jaba	1	TOWN	27-Sep-05	Punjab					Abandoned
24	Jaba	2	TOWN	03-Nov-05	Punjab					Abandoned
25	Golra	1	I P S	15-Sep-13	Punjab					Abandoned
26	Golra	2	I P S	04-Nov-13	Punjab					Abandoned
27	Khaur	1	POL	08-Sep-14	Punjab		4,239	Sakessar	01-Mar-15	Oil
28	Chandragup	1	BOC	01-Jan-16	Baloch.		2,660			Abandoned
29	Chappar-1	1	BOC	20-May-16	Baloch.					Abandoned
30	Pir-1	1	BOC	26-Nov-16	Baloch.					Abandoned
31	Dhulian	1	POL	21-Aug-18	Punjab	1378	2,018		01-Feb-21	Abandoned
32	Khabakki	1	IBPC	30-Oct-20	Punjab		1,045		01-Jan-22	Abandoned
33	Dhulian	2	POL	01-Nov-21	Punjab		2,779		01-Sep-24	Abandoned
34	Gabhir	1	POL	26-Nov-22	Punjab	1670	1,969			Abandoned
35	Jhatla	1	WPC	30-Oct-23	Punjab	1740	7,957		01-Jan-25	Abandoned
36	Dhulian	3	POL	09-Feb-24	Punjab		3,301		01-May-25	Abandoned
37	Khairpur	1	BOC	29-Oct-25	Sindh		4,512		01-Jul-26	Abandoned
38	Dalwati	1	BOC	05-Sep-27	Punjab	1386	3,662			Abandoned
39	Ganda Kas	1	BOC	01-Jan-30	Punjab	1398	3,002			Abandoned
40	Dalwati	2	BOC	29-Sep-30	Punjab	750	3,662			Abandoned
41	Khairi Murat	1	POL	28-Oct-30	Punjab	1614	532		27-Dec-30	Abandoned
42	Khairi Murat	3	POL	02-Jan-31	Punjab	1614	1,056		03-Mar-31	Abandoned
43	Khairi Murat	4	POL	01-Apr-31	Punjab	1614	755		31-May-31	Abandoned
44	Khairi Murat	5	POL	30-Jun-31	Punjab	1614	1,414		29-Aug-31	Abandoned
45	Khairi Murat	6	POL	29-Sep-31	Punjab	1614	994		28-Nov-31	Abandoned
46	Khairi Murat	7	POL	22-Dec-31	Punjab	1614	827		20-Feb-32	Abandoned
47	Babai	1	IBPC	03-Sep-32	Punjab	1815	7,712			Abandoned
48	Khairi Murat	2	POL	02-Nov-32	Punjab	1614	1,070		01-Jan-33	Abandoned
49	Ganda Kas	2	BOC	01-Jan-33	Punjab					Abandoned
50	Dhulian	4	POL	01-May-33	Punjab	1324	3,465		17-Apr-34	Abandoned
51	Dhulian	5	POL	04-Oct-34	Punjab	1306	8,508		21-Jan-36	Abandoned
52	Chor Lakki	2	IBPC	01-Jan-36	Punjab	1050	4,000		01-Jan-38	Abandoned
53	Bokra	1	POL	26-Jan-36	Punjab		4,000			Abandoned
54	Chorlakki	1	IBPC	27-Feb-36	Punjab	1050	2,251		01-Jan-38	Abandoned
55	Dhulian	6	POL	05-May-36	Punjab	1339	8,268	Ranikot	15-May-37	Oil
56	Ganda Kas	3	BOC	01-Jan-38	Punjab					Abandoned
57	Drigh Road	1	BOC	05-Jan-39	Sindh	242	10,906		07-Nov-56	Abandoned
58	Ganda Kas	1	IBPC	22-Nov-39	Punjab					Abandoned
59	Meyal	1A	POL	29-Oct-42	Punjab		8,491		20-Nov-44	Abandoned
60	Uchhri	1	POL	25-Feb-43	Punjab		8,445		17-Feb-44	Abandoned
61	Joya Mair	1	POL	25-Oct-43	Punjab	1670	6,900	Chorgali/Sakessar	01-Jan-44	Oil
62	Balkassar	1A	POL	04-Apr-45	Punjab	1782	8,399	Chorgali/Sakessar	01-Jan-46	Oil
63	Meyal	2A	POL	18-May-45	Punjab		10,502		14-Nov-45	Abandoned
64	Bokra	2	POL	19-May-45	Punjab	1850	6,365		30-Apr-46	Abandoned
65	Chakwal	1	BOC	08-Jul-46	Punjab	1387	8,740		01-Jul-48	Abandoned
66	Meyal	3A	BOC	01-Jul-47	Punjab	1440	8,219	Datta	13-Mar-48	Abandoned
67	Lakhra	1B	BOC	02-May-48	Sindh	332	12,666	Sembar	09-Apr-50	Abandoned
68	Sui	1	PPL	10-Oct-51	Baloch.	800	10,048	Goru	02-Nov-52	Gas

Note: Shaded entries indicate discoveries.

Contd./...

OIL & GAS EXPLORATORY WELLS (Contd...)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
69	Bains	1	POL	18-Dec-51	Punjab	1736	3,599	Murree	23-Sep-53	Abandoned
70	Dharia	1P	POL	17-Jan-52	Punjab	2884	8,517	Salt Range	18-Apr-52	Abandoned
71	Chak Naurang	1	BOC	20-Mar-52	Punjab	1830	7,700	Sardhai	17-Apr-53	Abandoned
72	Bains	2	POL	13-Nov-52	Punjab	1736	11,136	Murree	17-Sep-55	Abandoned
73	Zin	1	PPL	23-Jan-53	Baloch.	3566	6,385	Pab	26-Jun-54	Gas
74	Uch	1	PPL	15-Feb-55	Baloch.	388	11,001	Sembar	30-Sep-55	Gas
75	Karsal	1	PPL	02-May-55	Punjab	1385	12,750	Sardhai	07-May-57	Oil
76	Dhak	1	Hunt	05-May-56	Baloch.	21	8,407		26-Oct-56	Abandoned
77	Kech Band	1	Hunt	15-May-56	Baloch.			Panjgur		Abandoned
78	Digh	1X	Stanvac	21-May-56	Sindh	40	10,908	Shrinab	11-Jul-56	Abandoned
79	Jhatla	1P	POL	06-Jul-56	Punjab	1919	6,546	Sakesar	19-Apr-57	Abandoned
80	Karachi	1	PPL	07-Aug-56	Sindh	194	9,957	Korara Shale	31-Jul-57	Abandoned
81	Khairpur	2	PPL	14-Sep-56	Sindh	602	11,014	Chiltan	06-Apr-57	Gas
82	Dhak	2	Hunt	10-Nov-56	Baloch.	20	14,614		17-Mar-57	Abandoned
83	Adhi	1	PPL	14-Dec-56	Punjab	1794	2,098	Kamlial	21-Feb-57	Abandoned
84	Mari	X1	ESSO	29-Dec-56	Sindh	248	11,110	Sembar	01-Aug-57	Gas
85	Sari Singh	1	Hunt	28-Apr-57	Sindh	882	10,167		30-Aug-57	Abandoned
86	Kalar Kahar	1	POL	20-May-57	Punjab	2126	7,130	Salt Range	15-Jul-58	Abandoned
87	Talhar	1X	Stanvac	23-May-57	Sindh	48	10,785	Chiltan	21-Sep-57	Abandoned
88	Nandrakhi	1	POL	06-Jul-57	Punjab	2221	3,419		30-Sep-58	Abandoned
89	Sunbak	1	Hunt	09-Sep-57	Sindh	370	6,339		14-Oct-57	Abandoned
90	Bannh	1	PPL	15-Oct-57	Baloch.	492	13,002	L. Siwaliks	29-Apr-58	Abandoned
91	Sanni	1	PPL	15-Oct-57	Baloch.					Abandoned
92	Mirpurbataro	1X	Stanvac	15-Oct-57	Sindh	42	10,012	Lower Goru	03-Feb-58	Abandoned
93	Lakhra	1	Hunt	20-Oct-57	Sindh	322	11,890	Lower Goru	14-Mar-58	Abandoned
94	Adhi	2	PPL	07-Nov-57	Punjab	1856	3,760	Murree	01-Apr-58	Abandoned
95	Giandari	1	PSOC	26-Feb-58	Punjab	1226	12,008	Takatu L.St.	08-Sep-58	Abandoned
96	Lakhra	2	Hunt	19-Mar-58	Sindh	358	3,931	Parh	01-Apr-58	Abandoned
97	Lakhra	3	Hunt	06-Apr-58	Sindh	400	3,901	Parh	17-Apr-58	Abandoned
98	Lakhra	4	Hunt	24-Apr-58	Sindh	266	3,950	Parh	07-May-58	Abandoned
99	Jacobabad	1	PPL	08-May-58	Sindh	183	3,265	GHazij	19-May-58	Abandoned
100	Phulji	1	Hunt	29-May-58	Sindh	158	12,182	Ranikot	03-Sep-58	Abandoned
101	Nabisar	1	Stanvac	15-Jun-58	Sindh	99	10,023	Triassic	17-Sep-58	Abandoned
102	Jacobabad	2	PPL	12-Jun-58	Sindh	185	5,814	Chiltan	16-Jul-58	Abandoned
103	Mazarani	1	PPL	21-Aug-58	Sindh	289	10,115	Fort Muro	17-Jan-59	Gas
104	Badhra	1	Hunt	07-Oct-58	Sindh		4,373	Pab	21-Feb-59	Abandoned
105	Karampur	1	Shell	27-Dec-58	Punjab	467	9,954	Basement	09-Apr-59	Abandoned
106	Chak Belikhan	1	POL	21-Jan-59	Punjab	1591	1,421		12-May-59	Abandoned
107	Kandhkot	1	PPL	07-Mar-59	Sindh	241	6,821	Fort Muro	12-Apr-59	Gas
108	Phulji	2	Hunt	23-Mar-59	Sindh		8,321		25-Apr-59	Abandoned
109	Karachi	2	PPL	26-Apr-59	Sindh	194	12,946	Korara Shale	25-Nov-59	Abandoned
110	Mahesian	1	POL	01-Jun-59	Punjab	1247	10,787	Khewra S.st.	13-May-60	Abandoned
111	Chak Belikhan	2	POL	19-Oct-59	Punjab		1,499		12-Dec-59	Abandoned
112	Domanda	1	PPL	26-Nov-59	Punjab	2372	11,183	Ghazij	21-Apr-60	Abandoned
113	Dasori	1	PPL	15-Dec-60	Sindh	74	11,152	Sembar	20-Mar-61	Abandoned
114	Tanwin	1	POL	19-Jan-61	Punjab	1762	14,745	Murree	23-Feb-62	Abandoned
115	Badin	1X	Stanvac	03-Sep-61	Sindh	37	9,005	Chiltan	05-Nov-61	Abandoned
116	Kech Band	1	Tide	20-Mar-62	Sindh		10,988	Panjgur	17-Dec-62	Abandoned
117	Chharat Gib	2	OGDC	06-Jul-63	Punjab		3,622		25-May-64	Abandoned
118	Chharat Gib	1	OGDC	16-Jul-63	Punjab		3,199	Sakesar	30-Dec-63	Abandoned
119	Chharat Gib	3	OGDC	22-Jul-63	Punjab		394	Murree	30-Aug-63	Abandoned
120	Chak Belikhan	3	POL	25-Jul-63	Punjab	1526	12,904		27-Apr-64	Abandoned
121	Dabbo Creek	1	Sun Oil	20-Nov-63	Offshore	62	14,286	Sembar	08-Aug-64	Abandoned
122	Patiani Creek	1	Sun Oil	19-Aug-64	Sindh	61	8,725	MughalKot	22-Oct-64	Abandoned
123	Korangi Creek	1	Sun Oil	25-Oct-64	Offshore	52	13,583	Korara Shale	21-Feb-65	Abandoned
124	Toot	1	OGDC	02-Nov-64	Punjab	1077	14,649	Datta	13-Sep-67	Oil
125	Kundian	1	PPL	27-Jan-65	Punjab	683	7,087	Khewra S.st.	03-Apr-65	Abandoned
126	Sari	1	OGDC	30-Jul-65	Sindh	825	4,856	L.Ranikot	05-Apr-66	Gas
127	Adhi	3	PPL	18-Oct-65	Punjab	1761	10,736	Murree	23-Dec-66	Abandoned
128	Mari	x-7	ESSO	19-Feb-66	Sindh		2,575	Habib Rahi	24-Feb-66	Gas
129	Kot Sarang	1	OGDC	22-Jul-66	Punjab	1388	13,627	Wargal	09-May-68	Abandoned
130	Adhi	4	PPL	22-Apr-67	Punjab	1815	6,692	Murree	06-Dec-67	Abandoned
131	Benir	1	OGDC	12-Oct-67	Sindh	1437	7,700	Ranikot	07-Jun-68	Abandoned
132	Meyal	1P	POL	04-Nov-67	Punjab	1230	12,514		04-Nov-68	Oil/Gas
133	Kand	1	OGDC	17-Sep-68	Punjab	670	7,874	Korara Shale	30-Apr-69	Abandoned
134	Pezu	1	PPL	09-Nov-68	Punjab	1106	7,294	Datta	02-Apr-69	Abandoned
135	Nuryal	1	OGDC	28-May-69	Punjab	1199	15,768	Datta	10-Aug-71	Abandoned
136	Hundi	1	OGDC	21-Sep-69	Sindh	1091	7,888	Ranikot	10-Mar-71	Gas
137	Karang Gib	1	OGDC	25-Nov-69	Punjab	2925	3,291	Salt Range	10-Apr-71	Abandoned
138	Marwat	1	PPL	23-Aug-70	Punjab	1933	7,251	Salt Range	20-Dec-70	Abandoned
139	Gadularo	1	OGDC	06-Jun-71	Sindh	736	6,098	L. Ranikot	16-Feb-72	Abandoned
140	Dhadambar	1	OGDC	01-Dec-71	Punjab	1151	9,820	Chhidru	22-Dec-77	Abandoned
141	Kothar	1	OGDC	08-Aug-72	Sindh	997	6,236	L. Ranikot	27-Jul-73	Gas

Note: Shaded entries indicate discoveries.

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OIL & GAS EXPLORATORY WELLS (Contd...)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
142	Indus Marine	1A	Winter	12-Sep-72	Offshore	35	9,322	Miocene	14-Dec-72	Abandoned
143	Indus Marine	1B	Winter	15-Dec-72	Offshore	35	12,482	L. Miocene	14-Mar-73	Abandoned
144	Rodho	1	OGDC	26-Dec-72	Punjab	1910	623	Ghazji	04-Dec-73	Abandoned
145	Rodho	2	OGDC	15-Jan-73	Punjab	1905	8,100	Sembar	22-Dec-74	Gas
146	Sarai Sidhu	1	Amoco	02-Dec-73	Punjab	476	10,762	Salt Range	16-Feb-74	Abandoned
147	Tola	1	Amoco	27-Feb-74	Punjab	479	6,000	Warcha	14-Mar-74	Abandoned
148	Jhatpat	1	Amoco	06-Apr-74	Baloch.	200	15,303	Wulgai	20-Sep-74	Abandoned
149	Kamiab	1	Amoco	15-Oct-74	Punjab	535	7,541	Samana Suk	21-Nov-74	Abandoned
150	Budhuana	1	Amoco	04-Dec-74	Punjab	504	4,198	Samana Suk	15-Dec-74	Abandoned
151	Jandran	1	Amoco	15-Jan-75	Baloch.	4403	8,054	Chiltan	27-Jul-75	Gas
152	Garr koh	1	MAR	04-Mar-75	Baloch.	177	11,887		25-Aug-75	Abandoned
153	Indus Marine	1C	Winter	04-Mar-75	Offshore	35	6,372	L.Eocene	13-May-75	Abandoned
154	TadriMain	1	Amoco	30-Sep-75	Baloch.	3638	5,990	Chiltan	12-Dec-75	Abandoned
155	Pirkoh	1	OGDC	25-Oct-75	Baloch.	236	9,186	Mughalkot	30-Dec-77	Gas
156	Sakhi Sarwar	1	Amoco	10-Jan-76	Punjab	782	15,030	Pab	13-Oct-76	Abandoned
157	Jal pari	1A	MAR	30-Dec-76	Offshore	66	6,585	Hingelaj	13-Feb-77	Abandoned
158	Adhi	5	PPL	01-Aug-77	Punjab	1775	9,219	Salt Range	12-Feb-78	Gas/Cond.
159	Karak	1	TEX	04-Aug-77	Punjab	2761	14,629		23-Apr-78	Abandoned
160	Kotrum	1	OGDC	16-Dec-77	Punjab	1685	15,742	Pab	18-Aug-79	Abandoned
161	Karachi South	1A	Husky	26-Feb-78	Offshore	52	11,002	Mughalkot	09-May-78	Abandoned
162	Dhodak	1	OGDC	12-Jun-75	Punjab	1685	6,998	Pab	17-Dec-77	Condensate
163	Dhermund	1	OGDC	30-Dec-78	Punjab	1390	14,212	Salt Range	10-Jan-79	Abandoned
164	Patar	1	UTP	16-Jan-79	Sindh	32	10,100	Chiltan	14-Mar-79	Abandoned
165	Tarai	1	UTP	26-Mar-79	Sindh	40	10,200	Chiltan	06-Jun-79	Abandoned
166	Mianwala	1	Amoco	16-Jun-79	Punjab	1486	15,807	Mamikhel	03-Mar-80	Abandoned
167	Qazian	1X	Gulf	20-Oct-79	Punjab	1508	8,140	Salt Range	03-Aug-80	Abandoned
168	Surjan	1	OGDC	12-Dec-79	Sindh	1106	11,861	Lower Goru	27-Sep-81	Abandoned
169	Fimkassar	1X	Gulf	21-Aug-80	Punjab	1772	11,465	Salt Range	08-Jun-81	Oil
170	Damiri	1	UTP	10-Oct-80	Sindh	50	12,360	Lower Goru	06-Feb-81	Abandoned
171	Bahawalpur East	1	Shell	19-Dec-80	Punjab	443	9,922	Basement	17-Feb-81	Abandoned
172	Khaur-Oxy	1	OXY	18-Jan-81	Punjab	1630	9,306	Tobra	06-Feb-82	Abandoned
173	Hayal	1	OGDC	01-Feb-81	Punjab	1764	8,698	Salt Range	27-Dec-81	Abandoned
174	Jati	1	UTP	18-Feb-81	Sindh	36	10,109	Lower Goru	07-May-81	Abandoned
175	Marot	1	Shell	22-Feb-81	Punjab	469	8,517	Basement	17-Apr-81	Abandoned
176	Khaskeli	1	UTP	14-May-81	Sindh	59	8,529	Sembar	02-Jul-81	Oil
177	Balkassar	1	OXY	23-Jun-81	Punjab	1757	10,270	Salt Range	07-Oct-81	Abandoned
178	Tarai	2	UTP	30-Dec-81	Sindh	34	3,055	Lower Goru	11-Jan-82	Abandoned
179	Dakhni	1	OGDC	11-Mar-82	Punjab	1088	16,241	Samana Suk	20-Aug-83	Gas/Cond.
180	Jhal	1	BP	12-May-82	Baloch.	256	16,405	Goru	09-Dec-82	Abandoned
181	Bhadmi	1	UTP	29-Oct-82	Sindh	14	12,512	Liassic Clastic	25-Jan-83	Abandoned
182	Warnali	1	Shell	11-Nov-82	Punjab	709	9,213	Basement	09-Jan-83	Abandoned
183	Sanni	1	BP	04-Jan-83	Baloch.	509	4,170	Dhok Pathan	19-Jan-83	Abandoned
184	Lilla	1	Shell	21-Jan-83	Punjab	699	6,319	Salt Range	07-Mar-83	Abandoned
185	Dari	1	UTP	01-Feb-83	Sindh	45	8,000	Lower Goru	22-Mar-83	Abandoned
186	Pabbi Hill	1	Shell	18-Mar-83	Punjab	1317	10,624	Murree/Kamlial	11-Jul-83	Abandoned
187	Kathar	1	OGDC	25-Mar-83	Sindh	80	12,080	Sembar	21-Sep-83	Abandoned
188	Laghari	1	UTP	31-Aug-83	Sindh	62	3,400	Lower Goru	27-Sep-83	Oil
189	Dhurnal	1	OXY	25-Oct-83	Punjab	1684	13,438	Patala	08-May-84	Oil
190	Kario	1	UTP	27-Oct-83	Sindh	72	6,301	Lower Goru	24-Nov-83	Abandoned
191	Golarchi	1	UTP	14-Dec-83	Sindh	39	6,400	Lower Goru	28-Jan-84	Gas
192	Tando Alam	1	OGDC	28-Jan-84	Sindh	79	8,203	Lower Goru	08-Jun-84	Oil
193	Nizamani	1	UTP	31-Jan-84	Sindh	91	6,000	Lower Goru	23-Feb-84	Abandoned
194	Akai	1	UTP	25-Feb-84	Sindh	62	3,600	Lower Goru	08-Mar-84	Abandoned
195	Jhol	1	UTP	12-Apr-84	Sindh	46	4,650	Lower Goru	30-May-84	Abandoned
196	Nuryal	2	OGDC	17-Mar-84	Punjab	1207	16,076	Kingriali	24-Oct-84	Abandoned
197	Nandpur	1	OGDC	24-Apr-84	Punjab	466	6,923	Kingriali	29-Jun-84	Gas
198	Tajedi	1	UTP	02-May-84	Sindh	33	5,880	Lower Goru	26-May-84	Oil
199	Dhandi	1	OGDC	25-May-84	Punjab	253	5,400	Pab	30-Jul-84	Abandoned
200	Makhras	1	UTP	28-May-84	Sindh	45	4,089	Lower Goru	11-Jun-84	Abandoned
201	Walhar	1	UTP	06-Jun-84	Sindh	62	5,500	Lower Goru	30-Jun-84	Abandoned
202	Mazari	1	UTP	27-Jul-84	Sindh	84	6,600	Lower Goru	29-Aug-84	Abandoned
203	Talpur	1	UTP	01-Sep-84	Sindh	77	4,733	Lower Goru	19-Sep-84	Abandoned
204	Dabhi	1	UTP	21-Sep-84	Sindh	66	6,200	Lower Goru	23-Oct-84	Oil/Gas
205	Panjpri	1	OGDC	02-Oct-84	Punjab	467	6,956	Tredian	03-Apr-85	Gas
206	Gharhari	1	UTP	14-Nov-84	Sindh	30	6,295	Lower Goru	13-Dec-84	Abandoned
207	Shahdadpur	1	OGDC	20-Nov-84	Sindh	114	13,452	Chiltan	27-Jun-85	Abandoned
208	Alipur	1	UTP	27-Nov-84	Sindh	67	5,667	Lower Goru	15-Dec-84	Abandoned
209	Loti	1	OGDC	05-Dec-84	Baloch.	3067	7,389	Mughalkot	31-May-85	Gas
210	Nari	1	UTP	15-Dec-84	Sindh	40	6,900	Lower Goru	30-Jan-85	Gas
211	Rarri	1	UTP	17-Dec-84	Sindh	28	6,711	Lower Goru	13-Jan-85	Abandoned
212	Junathi	1	UTP	14-Jan-85	Sindh	56	6,000	Lower Goru	04-Feb-85	Abandoned
213	Kot Sarang	2	OGDC	24-Jan-85	Punjab		14,232	Sardhai	08-Oct-85	Abandoned
214	Rajo	1	UTP	02-Mar-85	Sindh	27	5,885	Lower Goru	22-Mar-85	Abandoned

Note: Shaded entries indicate discoveries.

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OIL & GAS EXPLORATORY WELLS (Contd...)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
215	Akri	1	UTP	22-Mar-85	Sindh	34	5,910	Lower Goru	14-Apr-85	Abandoned
216	Sonro	1	UTP	30-Jul-85	Sindh	63	4,348	Lower Goru	09-Aug-85	Gas/Cond.
217	Turk	1	UTP	15-Apr-85	Sindh	53	6,952	Lower Goru	21-May-85	Oil
218	Mazari	2	UTP	23-May-85	Sindh	63	4,750	Lower Goru	12-Jun-85	Oil
219	South Mazari	1	UTP	13-Jun-85	Sindh	61	4,803	Lower Goru	30-Jun-85	Oil
220	Kaku	1	OGDC	09-Jul-85	Sindh	79	8,471	Lower Goru	27-Aug-85	Abandoned
221	Machi	1	OGDC	18-Aug-85	Sindh	69	8,514	Lower Goru	10-Oct-85	Abandoned
222	Bukhari	1	UTP	27-Aug-85	Sindh	55	10,001	Lower Goru	10-Jan-86	Gas/Cond.
223	Babar	1	OGDC	24-Sep-85	Sindh	79	12,001	Sembar	30-Apr-86	Abandoned
224	Pakcan	1	OGDC	27-Sep-85	Offshore	59	12,142	M.Miocene	01-Feb-86	Abandoned
225	Pariwali	1	OXY	09-Nov-85	Punjab	1469	17,450	Sardhai	26-May-86	Abandoned
226	Paniro	1	UTP	16-Nov-85	Sindh	58	3,050	Lower Goru	24-Nov-85	Abandoned
227	Sann	1	OGDC	17-Nov-85	Sindh	449	12,365	Chiltan	30-May-86	Abandoned
228	Chak Naurang	1A	OGDC	06-Jan-86	Punjab	1826	8,816	Salt Range	20-Aug-86	Oil
229	Afiband	1	OGDC	25-Jan-86	Punjab	2826	6,627	Mughalkot	27-Jul-86	Abandoned
230	Dabhi South	1	UTP	30-Mar-86	Sindh	63	5,975	Lower Goru	20-Apr-86	Gas
231	Zindapir	1	OGDC	20-Mar-86	Punjab	1313	14,462	Alozai	07-Apr-87	Abandoned
232	Mattli	1	UTP	21-Apr-86	Sindh	65	6,000	Lower Goru	10-May-86	Oil/Gas
233	Jabo	1	UTP	12-May-86	Sindh	26	7,309	Lower Goru	15-Jun-86	Gas
234	Ghotana	1	OGDC	15-May-86	Sindh	82	7,881	Lower Goru	05-Aug-86	Oil
235	Haji	1	UTP	16-Jun-86	Sindh	27	5,500	Lower Goru	07-Jul-86	Abandoned
236	Makhdumpur	1	UTP	16-Aug-86	Sindh	43	8,493	Lower Goru	14-Sep-86	Gas/Cond.
237	Liari	1	UTP	30-Sep-86	Sindh	70	7,520	Lower Goru	23-Oct-86	Oil
238	Piranwal	1	OGDC	24-Nov-86	Punjab	470	8,468	Baghanwala	02-Jan-87	Abandoned
239	Halipota	1	UTP	25-Nov-86	Sindh	69	7,602	Lower Goru	19-Dec-86	Oil
240	Lashari	1	OGDC	11-Dec-86	Sindh	78	8,366	Lower Goru	08-Mar-87	Abandoned
241	Lashari South	1	OGDC	23-Mar-87	Sindh	79	7,395	Lower Goru	02-Jun-87	Oil
242	Injra	1	OGDC	15-Jun-87	Punjab	1110	15,549	Datta	26-Apr-88	Abandoned
243	Thora	1	OGDC	15-Jun-87	Sindh	83	7,281	Lower Goru	27-Jul-87	Oil
244	Kunar	1	OGDC	04-Aug-87	Sindh	76	7,225	Lower Goru	14-Nov-87	Abandoned
245	Palari Sarki	1	OGDC	06-Sep-87	Sindh	299	11,900	Sembar	30-Aug-88	Abandoned
246	Ghungro	1	UTP	14-Sep-87	Sindh	30	12,136	Chiltan	31-Jan-88	Oil
247	Baz	1	AS	20-Nov-87	Sindh	36	7,575	Lower Goru	11-Jan-88	Abandoned
248	Kunar East	1	OGDC	28-Nov-87	Sindh	73	7,762	Lower Goru	16-Jan-88	Abandoned
249	Sono	1	OGDC	24-Dec-87	Sindh	80	7,618	Lower Goru	06-Feb-88	Oil
250	Ratana	1	OXY	14-Jan-88	Punjab	1481	17,208	Datta	05-Oct-89	Gas/Cond.
251	Kunar	2	OGDC	01-Feb-88	Sindh	75	6,988	Lower Goru	14-Apr-88	Oil/Gas
252	Pir	1	UTP	02-Feb-88	Sindh	51	9,022	Lower Goru	12-Mar-88	Gas
253	Paniro	2	UTP	12-Feb-88	Sindh	61	7,400	Sembar	12-Mar-88	Oil
254	Bobi	1	OGDC	02-Mar-88	Sindh	92	9,514	Lower Goru	31-May-88	Oil
255	Lashari-C	1	OGDC	05-Mar-88	Sindh	77	7,070	Lower Goru	11-Apr-88	Oil
256	Duphri	1	UTP	26-Mar-88	Sindh	43	3,635	Lower Goru	09-Mar-88	Oil
257	Lashari East	1	OGDC	14-May-88	Sindh	67	7,395	Lower Goru	07-Jul-88	Abandoned
258	Bari	1	UTP	29-May-88	Sindh	53	3,700	Lower Goru	06-Jun-88	Abandoned
259	Fimkassar	1A	OGDC	01-Jun-88	Punjab	1787	9,374	Murree	04-Dec-88	Abandoned
260	Khorewah	1	UTP	09-Jun-88	Sindh	50	6,850	Lower Goru	09-Jul-88	Gas/Cond.
261	Mol	1	CNW	12-Jun-88	Sindh	866	9,941	Lower Goru	02-Oct-88	Abandoned
262	Baki Ilkim	1	OGDC	21-Jun-88	Sindh	186	12,848	Lower Goru	22-Nov-88	Abandoned
263	Erazi	1	UTP	11-Jul-88	Sindh	51	5,842	Lower Goru	25-Jul-88	Abandoned
264	Jalwal	1	POL	28-Jul-88	Punjab	1139	14,820	Lower Goru	03-Dec-89	Abandoned
265	North Akri	1	UTP	03-Sep-88	Sindh	39	10,790	Lower Goru	04-Nov-88	Oil
266	Daru	1	OGDC	12-Oct-88	Sindh	65	8,409	Lower Goru	22-Jan-89	Gas
267	Ranger	1	ROL	16-Oct-88	Sindh	29	8,470	Chiltan	13-Nov-88	Abandoned
268	Bagla	1	Philips	22-Oct-88	Sindh	43	9,249	Lower Goru	09-Dec-88	Gas
269	Thora East	1	OGDC	22-Nov-88	Sindh	77	7,129	Lower Goru	09-Jan-89	Oil
270	Loti South	1	OGDC	10-Nov-88	Baloch.	1305	5,364	U. Ranikot	09-Jan-89	Abandoned
271	Bhal Saydan	1	OGDC	12-Dec-88	Punjab	1581	13,150	Margalla Hill L. St.	06-Feb-90	Condensate
272	Shakardara	1	OGDC	28-Jan-89	KPK.	2018	14,922	Chichali	27-Mar-90	Abandoned
273	Babu	1	UTP	28-Jan-89	Sindh	64	7,447	Lower Goru	03-Apr-89	Abandoned
274	Tando Ghulam Ali	1	UTP	03-Mar-89	Sindh	68	10,110	Chiltan	18-Apr-89	Gas/Cond.
275	Bhangali	1	OXY	10-Mar-89	Punjab	1822	13,307	Khewra S. St.	05-Oct-89	Oil
276	Fimkassar	1	OGDC	16-Apr-89	Punjab	1777	10,109	Patala Shale	16-Sep-89	Oil
277	Jamali	1	UTP	22-Apr-89	Sindh	51	8,571	Lower Goru	27-May-89	Abandoned
278	Kadanwari	1	Lasmo	25-Apr-89	Sindh	228	13,104	Sembar	18-Sep-89	Gas
279	Rais	1	OGDC	03-Apr-89	Sindh	88	8,481	Lower Goru	03-Jun-89	Abandoned
280	Koli	1	UTP	16-May-89	Sindh	49	5,549	Lower Goru	03-Jun-89	Gas/Cond.
281	Arbi	1	UTP	30-May-89	Sindh	35	7,709	Lower Goru	15-Jun-89	Abandoned
282	Sirani	1	UTP	18-Jun-89	Sindh	30	6,535	Lower Goru	04-Jul-89	Abandoned
283	Kato	1	UTP	22-Jun-89	Sindh	62	7,950	Lower Goru	10-Sep-89	Gas/Cond.
284	Pasahki	1	OGDC	14-Jun-89	Sindh	77	7,156	Lower Goru	15-Aug-89	Oil
285	Chakri	1	UTP	11-Aug-89	Sindh	61	8,300	Lower Goru	22-Sep-89	Abandoned
286	Baki Ilkin	2	OGDC	22-Sep-89	Sindh	210	14,259	Chiltan	18-May-90	Abandoned
287	Bhatti	1	UTP	12-Oct-89	Sindh	37	6,800	Lower Goru	05-Nov-89	Oil/Gas

Note: Shaded entries indicate discoveries.

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OIL & GAS EXPLORATORY WELLS (Contd...)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
288	Pasahki North	1	OGDC	06-Nov-89	Sindh	71	7,208	Lower Goru	16-Dec-89	Oil
289	Rind	1	UTP	15-Dec-89	Sindh	57	3,857	Lower Goru	27-Dec-89	Oil/Gas
290	Sher	1	Philips	17-Dec-88	Sindh	42	13,150	Sembar	18-Apr-89	Abandoned
291	Darbula	1	OGDC	20-Dec-89	Punjab	578	5,090	Salt Range	12-Jan-90	Abandoned
292	Sadaf	1	OXY	22-Dec-89	Offshore	49	13,058	E. Miocene	08-Mar-90	Abandoned
293	Shero	1	UTP	28-Dec-89	Sindh	73	6,400	Lower Goru	11-Jan-90	Abandoned
294	Khokhar	1	OGDC	08-Jan-90	Sindh	73	8,366	Lower Goru	18-Apr-90	Abandoned
295	Qadirpur	1	OGDC	15-Jan-90	Sindh	248	5,138	Pab	23-Mar-90	Gas
296	Lashari East ST	1	OGDC	03-Feb-90	Sindh		6,860	Lower Goru	24-Apr-90	Oil
297	Rip	1	UTP	21-Feb-90	Sindh	46	3,646	Lower Goru	28-Feb-90	Abandoned
298	Akri North	3	UTP	12-Mar-90	Sindh		6,499	Lower Goru	24-Mar-90	Abandoned
299	Judge	1	Lasmo	25-Apr-90	Sindh	187	12,139	Lower Goru	24-Sep-90	Abandoned
300	Turkwal	1	OGDC	06-Jun-90	Punjab	1675	10,663	Warcha	16-Jan-91	Abandoned
301	Bobi South	1	OGDC	08-Jul-90	Sindh	90	9,698	Lower Goru	25-Sep-90	Abandoned
302	Pir Patho	1	Cant.	26-Jul-90	Sindh	52	10,705	Lower Goru	25-Sep-90	Abandoned
303	Palijani	1	OGDC	30-Aug-90	Sindh	92	8,202	Lower Goru	07-Nov-90	Abandoned
304	Chonai	1	PCPI	02-Sep-90	KPK.	1269	12,796	Mianwali	22-Dec-90	Abandoned
305	Sultan	1	PCPI	07-Sep-90	Sindh	186	8,360	Chiltan	05-Oct-90	Abandoned
306	Gorwar	1	Lasmo	05-Oct-90	Sindh	203	11,844	Lower Goru	11-Jan-91	Gas shows
307	Kandra	1	Premier	09-Oct-90	Sindh	216	7,460	Chiltan	22-Nov-90	Gas
308	Dhumraki	1	OGDC	21-Oct-90	Sindh	94	9,564	Lower Goru	14-Jan-91	Condensate
309	Messa Keswal	1	OGDC	22-Nov-90	Punjab	1518	7,224	Salt Range	13-Oct-91	Oil
310	Pindori	1	OXY	22-Nov-90	Punjab	1614	13,920	Sardhai	18-May-91	Oil
311	Noor	1	OGDC	05-Dec-90	Sindh	46	9,190	Lower Goru	03-May-91	Gas
312	Qadirpur(Deep)	X-2	OGDC	07-Feb-91	Sindh		5,207	Pab	09-Apr-91	Abandoned
313	Manjhu	1	Premier	12-Feb-91	Sindh	315	11,719	Chiltan	19-Mar-91	Abandoned
314	Buzdar	1	OGDC	18-Mar-91	Sindh	60	5,095	Lower Goru	26-Apr-91	Gas/Cond.
315	Allah Dino	1	OGDC	22-May-91	Sindh	89	8,266	Lower Goru	08-Aug-91	Abandoned
316	M.Ismail	1	OGDC	03-Jun-91	Sindh	69	7,776	Lower Goru	14-Jul-91	Oil
317	Sadkal	1	OGDC	26-Jun-91	Punjab	29	13,780	Lockhart	09-Jun-92	Condensate
318	Bobi_N	1	OGDC	30-Jun-91	Sindh	94	9,344	Lower Goru	11-Aug-91	Abandoned
319	Tolanj	1	Amoco	09-Aug-91	KPK.	2449	10,161	Samana Suk	24-Nov-91	Abandoned
320	Adiani	1	Lasmo	10-Aug-91	Sindh	218	11,923	Lower Goru	30-Nov-91	Abandoned
321	Almani	1	OGDC	05-Sep-91	Sindh	68	6,898	Lower Goru	08-Nov-91	Abandoned
322	Khajari	1	OGDC	24-Nov-91	Sindh	59	11,475	Shrinab	04-May-92	Abandoned
323	Waku	1	OGDC	27-Dec-91	Sindh	69	8,366	Lower Goru	09-Mar-92	Abandoned
324	Saro	1	OGDC	18-Jan-92	Punjab	547	3,415	Khadro	21-Feb-92	Abandoned
325	Shaik Nadin	1	Cant.	05-Feb-92	Sindh	29	5,509	Lower Goru	28-Feb-92	Abandoned
326	Sadaki	1	OGDC	10-Apr-92	Sindh	29	8,858	Datta/Shinwari	02-Nov-92	Abandoned
327	Ahmedpur	1	POL	23-Apr-92	Punjab	376	8,630	Lower Goru	05-Jun-92	Abandoned
328	Ichrie	1	OGDC	12-May-92	Punjab	121	10,827	Lower Goru	09-Oct-92	Abandoned
329	Jhalar	1	UTP	20-May-92	Sindh	46	4,300	Lower Goru	01-Jun-92	Abandoned
330	Nak-Band	1	OGDC	25-May-92	KPK.	951	12,992	Sakesar	01-Apr-93	Abandoned
331	Miran	1	OGDC	30-Jun-92	Sindh	126	14,436	Chiltan	30-Jan-93	Abandoned
332	Sakrand	1	OGDC	30-Jun-92	Sindh	124	14,108	Chiltan	07-Feb-93	Abandoned
333	Drigri	1	OGDC	02-Sep-92	Sindh		10,663	Ghazij	28-Nov-92	Abandoned
334	Mahi	1	UTP	11-Sep-92	Sindh	49	6,557	Lower Goru	27-Sep-92	Gas/Cond.
335	Sandiki	1	UTP	09-Oct-92	Sindh		1,854	U. Goru	12-Oct-92	Abandoned
336	Sagyun	1	OGDC	14-Oct-92	Sindh		13,927	Chiltan	13-May-93	Abandoned
337	Bari	2	UTP	21-Oct-92	Sindh		3,028	Lower Goru	30-Oct-92	Oil
338	Nakurji	1	UTP	10-Nov-92	Sindh		6,535	Lower Goru	30-Nov-92	Gas
339	Kahi	1	Amoco	05-Dec-92	KPK.		6,909	Samana Suk	25-Jan-93	Abandoned
340	N.Mazari	1	UTP	07-Dec-92	Sindh		4,826	Lower Goru	15-Dec-92	Abandoned
341	Kashmore	1	OGDC	22-Jan-93	Sindh		8,904	Dunghan	27-Apr-93	Abandoned
342	Buzdar-N	1	OGDC	24-Jan-93	Sindh		5,249	Lower Goru	03-Mar-93	Oil
343	Sumari	1	Amoco	06-Feb-93	KPK.		4,810	Samana Suk	03-Mar-93	Abandoned
344	Ramak	1	Lasmo	10-Feb-93	KPK.		14,600	Drazida	23-Apr-93	Abandoned
345	Thora-N	1	OGDC	06-Mar-93	Sindh		7,677	Lower Goru	08-May-93	Abandoned
346	Pirshah	1	OGDC	03-Apr-93	Sindh		6,332	Lower Goru	16-Apr-93	Abandoned
347	Gotki	1	Can-Oxy	15-Apr-93	Sindh		5,249	Pab	03-May-93	Abandoned
348	Mubarik	1	OGDC	18-Apr-93	Sindh		11,220	Lower Goru	10-Sep-93	Abandoned
349	Esakhel	1	OGDC	16-May-93	Punjab		15,354	Khewra S. St.	31-Oct-93	Abandoned
350	Bukerani	1	OGDC	14-Jun-93	Punjab		8,048	Lower Goru	26-Jul-93	Abandoned
351	Miano	1	OMV	16-Jun-93	Sindh		13,222	Sembar	11-Nov-93	Gas
352	Jaffar	1	OGDC	30-Jun-93	Punjab		13,845	Kuldana	23-Apr-94	Abandoned
353	Bachal	1	UTP	15-Jul-93	Sindh		5,000	Lower Goru	22-Jul-93	Oil/Gas
354	Dal	1	UTP	29-Jul-93	Sindh		5,899	Lower Goru	09-Aug-93	Abandoned
355	Pirkoh-E	1	OGDC	07-Aug-93	Baloch.		7,087	L. Ranikot	16-Sep-93	Abandoned
356	Odejani	1	UTP	14-Aug-93	Sindh		3,258	Lower Goru	18-Aug-93	Abandoned
357	Tangri	1	UTP	21-Aug-93	Sindh		7,956	Lower Goru	30-Oct-93	Abandoned
358	S.Mazari.Deep	1	UTP	21-Sep-93	Sindh		7,510	Lower Goru	08-Oct-93	Oil
359	Beghari	1	OGDC	02-Oct-93	Sindh		7,917	Lower Goru	05-Feb-94	Abandoned
360	Odejani-A	1	UTP	01-Nov-93	Sindh		3,199	Lower Goru	08-Nov-93	Abandoned

Note: Shaded entries indicate discoveries.

Contd./...

OIL & GAS EXPLORATORY WELLS (Contd...)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
361	Jalal	1	UTP	23-Oct-93	Sindh		5,801	Lower Goru	05-Nov-93	Gas
362	Rajian	1	OGDC	09-Nov-93	Punjab		12,139	Khewra S. St.	16-Aug-94	Oil
363	Buzdar-South	1	UTP	12-Nov-93	Sindh		5,000	Lower Goru	24-Nov-93	Gas/Cond.
364	Qubba	1	UTP	13-Nov-93	Sindh		5,699	Lower Goru	25-Nov-93	Abandoned
365	Buland	1	UTP	27-Nov-93	Sindh		2,651	Lower Goru	04-Dec-93	Gas
366	Zaur	1	UTP	24-Dec-93	Sindh		6,749	Lower Goru	02-Jan-94	Oil/Gas
367	Chak-Meyun	1	OGDC	10-Jan-94	Punjab		11,024	Sakesar	16-Oct-94	Abandoned
368	Badar	1	Premier	20-Jan-94	Sindh		5,279	Pab	11-Feb-94	Gas
369	Fort-Abbas	1	OGDC	24-Jan-94	Punjab		5,417	Salt Range	10-Mar-95	Abandoned
370	Tando Alam Deep	1	OGDC	24-Jan-94	Sindh		10,860	Lower Goru	30-Jun-94	Abandoned
371	Savi-Ragha	1	B.G.	28-Jan-94	Baloch.		9,767	Mughalkot	15-Jun-94	Gas/Cond.
372	Khoso	1	UTP	06-Feb-94	Sindh		9,898	Chiltan	14-Mar-94	Abandoned
373	Dabbar	1	Albion	20-Mar-94	Baloch.		4,505	Chiltan	28-Apr-94	Abandoned
374	Bukhari-E	1	UTP	27-Mar-94	Sindh		7,349	Lower Goru	12-Apr-94	Abandoned
375	Liari Deep	1	UTP	21-Apr-94	Sindh		11,470	Sembar	08-Jun-94	Gas
376	Lakho	1	OGDC	28-Apr-94	Sindh		8,028	Lower Goru	07-Jul-94	Abandoned
377	Sara	1	Tullow	27-May-94	Sindh		10,449	Chiltan	08-Aug-94	Gas
378	Sabzal	1	OGDC	10-Jun-94	Sindh		11,913	Sembar	15-Sep-96	Abandoned
379	Sohro	1	OGDC	27-Jun-94	Sindh		6,453	Lower Goru	04-Aug-94	Abandoned
380	Chak-5 Dim	1	OGDC	27-Jun-94	Sindh		11,811	Lower Goru	11-Oct-94	Gas/Cond.
381	Tando G. Ali (North)	1	UTP	24-Nov-94	Sindh		3,501	Lower Goru	29-Nov-94	Abandoned
382	Kundi	1	PPL	05-Dec-94	KPK.		20,998	Panoba	18-Dec-95	Abandoned
383	Buland	2	UTP	07-Dec-94	Sindh		2,726	Lower Goru	13-Dec-94	Abandoned
384	Makhdumpur Deep	1	UTP	07-Dec-94	Sindh		11,716	Lower Goru	28-Jan-95	Gas
385	Tangri	2	UTP	16-Dec-94	Sindh		7,900	Lower Goru	14-Jan-95	Oil
386	Jhol North	1	UTP	20-Dec-94	Sindh		4,301	Lower Goru	02-Jan-95	Suspended
387	Jakheji	1	UTP	08-Jan-95	Sindh		3,799	Lower Goru	16-Jan-95	Abandoned
388	Bari South	1	UTP	20-Jan-95	Sindh		2,999	Lower Goru	31-Jan-95	Abandoned
389	Chachar	1	Tullow	28-Jan-95	Sindh		5,912	SML	28-Mar-95	Gas
390	Kal	1	OGDC	12-Feb-95	Punjab		9,154	Salt Range	16-May-95	Oil
391	Tarai Deep	2	UTP	12-Feb-95	Sindh		10,305	Chiltan	17-Apr-95	Abandoned
392	Badar South	1	Premier	14-Mar-95	Sindh		5,249	Pab	01-Apr-95	Suspended
393	Khipro	1	OMV	26-Mar-95	Sindh		13,740	Sembar	31-Aug-95	Gas
394	Kalu	1	Tullow	13-Apr-95	Sindh		4,823	Khadro	12-May-95	Abandoned
395	Khorewah Deep	1	UTP	29-Apr-95	Sindh		9,449	Lower Goru	28-Jun-95	Gas
396	Kadiqazi	1	UTP	22-May-95	Sindh		3,045	Lower Goru	29-May-95	Abandoned
397	Charo	1	Tullow	23-May-95	Sindh		4,396	Parh	19-Jun-95	Gas
398	Pir Bari	1	OGDC	20-Jun-95	Sindh		5,594	Pab	23-Jul-95	Abandoned
399	Paniari	1	OGDC	26-Jun-95	Sindh		10,925	Lower Goru	25-Sep-95	Abandoned
400	Amirpur	1	OGDC	28-Jun-95	Punjab		9,931	Khewra S. St.	04-Jan-96	Oil
401	Shahab	1	OGDC	30-Jun-95	Punjab		5,472	Murree	19-Oct-95	Abandoned
402	Zaur Deep	1	UTP	05-Jul-95	Sindh		10,499	Lower Goru	08-Aug-95	Gas
403	Jakhri	1	UTP	07-Jul-95	Sindh		6,017	Lower Goru	27-Jul-95	Abandoned
404	Buland	3	UTP	19-Aug-95	Sindh		2,700	Lower Goru	31-Aug-95	Abandoned
405	Buzdar South Deep	1	UTP	01-Sep-95	Sindh		11,250	Chiltan	25-Oct-95	Gas
406	Gulan	1	B.G.	14-Nov-95	Baloch.		12,326	Pab	17-Apr-96	Abandoned
407	Shahab-A	1	OGDC	15-Nov-95	Punjab		13,843	Khewra S. St.	22-Aug-96	Abandoned
408	Chak-5 Dim South	1	OGDC	30-Nov-95	Sindh		9,541	Lower Goru	22-Feb-96	Gas/Cond.
409	Palli	1	OGDC	22-Dec-95	Sindh		9,514	Lower Goru	01-Jun-96	Oil
410	Chatha	1	OGDC	24-Jan-96	Punjab		13,123	Murree	19-Aug-96	Abandoned
411	Domani	1	OGDC	05-Feb-96	Sindh		3,652	Upper Goru	06-Mar-96	Abandoned
412	Nari Deep	1	UTP	20-Feb-96	Sindh		10,174	Lower Goru	04-Apr-96	Abandoned
413	Dauki	1	UTP	21-Feb-96	Sindh		3,593	Lower Goru	03-Mar-96	Abandoned
414	Kachelo-X	1	PPL	23-Feb-96	Sindh		10,994	Lower Goru	11-May-96	Abandoned
415	Bhit	1	Lasmo	11-Mar-96	Sindh		6,033	Pab	09-Jun-96	Abandoned
416	Indus	1	Premier	06-Apr-96	Sindh		3,629		11-Jun-96	Abandoned
417	Satiari	1	OGDC	13-Apr-96	Sindh		5,761	Lower Goru	13-May-96	Abandoned
418	Doti	1	UTP	18-Apr-96	Sindh		6,004	Lower Goru	04-May-96	Abandoned
419	Jagir	1	UTP	31-May-96	Sindh		7,556	Lower Goru	22-Jun-96	Oil
420	Jandran-X	1	OGDC	31-May-96	Baloch.		3,829	Parh	23-Aug-96	Abandoned
421	Sakhi	1	UTP	28-Jun-96	Sindh		8,701	Lower Goru	07-Aug-96	Oil/Gas
422	Bijnot	1	OGDC	28-Jun-96	Punjab		6,280	Basement	28-Aug-96	Abandoned
423	Sara West	1	Tullow	19-Jul-96	Sindh		9,990	Pariwar	14-Sep-96	Suspended
424	Indus	1B	Premier	08-Aug-96	Sindh		4,596	Pab	08-Aug-96	Abandoned
425	Minwal-X	1	POL	09-Sep-96	Punjab		7,149	Sakesar	10-Dec-96	Oil
426	Kallar-X	1	PPL	10-Oct-96	Punjab		21,053	Kuldana	03-Nov-97	Abandoned
427	Kalachitta	1	OGDC	21-Nov-96	Punjab		12,959	Lockhart	18-Dec-97	Abandoned
428	Raj	1	UTP	10-Dec-96	Sindh		12,060	Upper Goru	27-Dec-96	Oil/Gas
429	Mithro	1	UTP	14-Dec-96	Sindh		7,999	Lower Goru	17-Jan-97	Abandoned
430	Bhit	2	Lasmo	20-Dec-96	Sindh		6,781	Fort Munro	01-Apr-97	Gas
431	Mari Deep	1	MGCL	01-Jan-97	Sindh		13,504	Chiltan	11-Jul-97	Gas
432	Dabbar	2	CONOCO	02-Jan-97	Baloch.		4,905	Chiltan	11-Feb-97	Abandoned
433	Khuda Dad	1	POL	04-Jan-97	Punjab		16,978	Murree	28-Nov-97	Abandoned

Note: Shaded entries indicate discoveries.

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OIL & GAS EXPLORATORY WELLS (Contd...)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
434	Nurpur	A	SHELL	24-Feb-97	Punjab		6,644	Salt Range	15-Jun-97	Abandoned
435	Dhok Kamal Shah	1	OGDC	03-Mar-97	Punjab		5,942	Murree	14-Jun-97	Abandoned
436	Miriwah	1	BG	04-Mar-97	Baloch.		6,578	Mughalkot	23-May-97	Abandoned
437	Keyhole	1	UTP	07-Mar-97	Sindh		9,751	Lower Goru	27-Apr-97	Abandoned
438	Muban	1	UTP	08-Mar-97	Sindh		2,552	Lower Goru	16-Mar-97	Oil
439	Kandero	1	UTP	12-Apr-97	Sindh		8,497	Lower Goru	01-May-97	Abandoned
440	Harno	1	OGDC	17-May-97	Punjab		10,502	Murree	10-Feb-98	Abandoned
441	Marvi	1	UTP	22-May-97	Sindh		16,998	Salt Range	05-May-98	Abandoned
442	Jandran-X	2	OGDC	04-Jun-97	Baloch.		3,609	Parh	11-Aug-98	Gas
443	Meting	1	Tullow	16-Jun-97	Sindh		14,075	Chiltan	26-Dec-97	Abandoned
444	Sumot Ghar	1	OGDC	20-Jun-97	Baloch.		5,577	Mughalkot	14-Sep-97	Abandoned
445	Diaal	1	OPPI	26-Jun-97	Punjab		12,244	Salt Range	24-Dec-97	Abandoned
446	Khararo	1	OMV	11-Jul-97	Sindh		10,171	Sembar	05-Oct-97	Abandoned
447	Hathungo	1	Premier	24-Jul-97	Sindh		1,509	Lower Goru	07-Aug-97	Abandoned
448	Turkwal (Re-entry)	1	POL	03-Aug-97	Punjab		11,850		26-Dec-97	Oil/Gas
449	Tarai Deep	3	UTP	05-Sep-97	Sindh		10,748	Chiltan	11-Nov-97	Abandoned
450	Duljan	1	BG	08-Sep-97	Sindh		11,877	Lower Goru	01-Jan-98	Abandoned
451	Suri	1	Tullow	21-Sep-97	Sindh		4,068	Upper Goru	11-Nov-97	Gas
452	Sawan	1	OMV	17-Oct-97	Sindh		11,768	Lower Goru	04-Feb-98	Gas
453	Mari Deep	2	MGLCL	29-Oct-97	Sindh		12,799	Sembar	17-Feb-98	Gas
454	Tando Allahyar	1	OGDCL	16-Nov-97	Sindh		5,741	Lower Goru	20-Jan-98	Oil/Gas
455	Keyhole G	1	UTP	24-Nov-97	Sindh		6,699	Lower Goru	25-Dec-97	Oil
456	Damiri (Re-entry)	1	Hunt	30-Nov-97	Sindh		14,815	Chiltan	16-May-98	Abandoned
457	Choti	1	OGDCL	06-Dec-97	Punjab		14,619	Sui Main Lst.	02-Jun-98	Abandoned
458	Mehro	1	UTP	20-Dec-97	Sindh		5,197	Lower Goru	06-Jan-98	Abandoned
459	Tarai South	1	UTP	29-Dec-97	Sindh		3,599	Lower Goru	28-Jan-98	Abandoned
460	Sakhi Deep	1	UTP	05-Jan-98	Sindh		9,856	Lower Goru	19-May-98	Gas
461	Nareri	1	UTP	08-Jan-98	Sindh		5,299	Lower Goru	23-Jan-98	Abandoned
462	Jakhro	1	OGDCL	09-Jan-98	Sindh		9,852	Lower Goru	16-Apr-98	Gas/Cond.
463	Zamzama	1	BHP	15-Jan-98	Sindh		12,920	Pab	01-Jun-98	Gas/Cond.
464	Jandran X	3	OGDCL	27-Jan-98	Baloch.		5,102	Goru	15-Jun-98	Suspended
465	Daud X	1	PPL	28-Jan-98	Sindh		10,778	Lower Goru	01-Apr-98	Abandoned
466	Mataro	2	UTP	29-Jan-98	Sindh		4,199	Lower Goru	07-Feb-98	Abandoned
467	Hamza X	1	PPL	05-Feb-98	Sindh		4,417	Ranikot	05-Apr-98	Gas
468	Meyn Ismail Deep	1	UTP	27-Feb-98	Sindh		10,781	Lower Goru	29-Jun-98	Gas
469	Nizmani	2	UTP	03-Mar-98	Sindh		6,050	Chiltan	16-Mar-98	Abandoned
470	Kharnhak	1	Hycarbex	16-Mar-98	Sindh		8,252	Chiltan	24-May-98	Abandoned
471	Sakhi South East	1	UTP	18-Mar-98	Sindh		6,499	Lower Goru	01-Apr-98	Abandoned
472	Dhabi North	1	UTP	03-Apr-98	Sindh		6,395	Lower Goru	23-Apr-98	Oil
473	Daiwal	1	OGDCL	06-Apr-98	Punjab		16,240	Khewra Sst.	26-Mar-99	Abandoned
474	Misan	1	OGDCL	01-May-98	Sindh		6,923	Lower Goru	29-Jun-98	Oil
475	Turkwal Deep	1	POL	23-May-98	Punjab		14,508	Sakesar		Suspended
476	Sher	2	Hunt	30-May-98	Sindh		6,750	Lower Goru		Abandoned
477	Zarghun South	1	Premier	04-Jun-98	Baloch.		7,126	Chiltan	13-Sep-98	Gas
478	Dhok Kemal Shah	1A	OGDCL	16-Jun-98	Punjab		13,189	Margalla Hill	23-Apr-99	Suspended
479	Ranpethani	1	OGDCL	30-Jun-98	Sindh		3,832	Parh Fm.	24-Jul-98	Abandoned
480	Sui Deep	1	PPL	01-Jul-98	Baloch.		15,430	Chiltan	07-Mar-99	Gas
481	Khudadad Re-entry	1	POL	10-Aug-98	Punjab		17,608	Sakesar	24-Jun-99	Abandoned
482	Badhra	2	Lasmo	18-Sep-98	Sindh		11,467	Lower Goru	26-Feb-99	Gas
483	Musa Goth	1	OGDCL	13-Nov-98	Sindh		4,108	Lower Goru	07-Dec-98	Abandoned
484	Chanda	1	OGDCL	03-Dec-98	KPK.		15,709	Datta		Oil & Gas
485	Gajwano	1	OMV	08-Jan-99	Sindh		11,804	Lower Goru	28-Feb-99	Abandoned
486	David	1	Hycarbex	07-Feb-99	Sindh		3,623	SML	21-Feb-99	Abandoned
487	Hassan	X-1	PPL	20-Feb-99	Sindh		3,714	SML	24-Mar-99	Gas
488	David	1A	Hycarbex	05-Apr-99	Sindh		3,579	SML	28-Apr-99	Abandoned
489	Mir	1	OGDCL	21-Apr-99	Sindh		5,161	Lower Goru	08-Jun-99	Abandoned
490	Chak 255	1	OGDCL	01-May-99	Punjab		9,843	Lower Goru		Abandoned
491	Burzi	1	OGDCL	30-Jun-99	Baloch.		9,029	Goru	03-Jul-00	Abandoned
492	Basira	1	BG	30-Jun-99	Sindh		11,204	Lower Goru	11-Aug-99	Abandoned
493	Charrat North	1	OGDCL	30-Jul-99	Punjab	1,512	12,959	Samana Suk	06-May-00	Abandoned
494	Sadkal C Deep	1	OGDCL	30-Jul-99	Punjab		15,696	Lockhart		Plugged & Abdn.
495	Turkwal Deep	2	POL	11-Aug-99	Punjab	56	14,715	Nammal		Plugged & Abdn.
496	Miranabad	1	OGDCL	17-Sep-99	Sindh	72	6,726	Lower Goru	29-Oct-99	Abandoned
497	Pasni	1	OCEAN	11-Oct-99	Offshore	94	11,710	Parkini	05-Jan-00	Abandoned
498	Jiwanwala	1	OGDCL	14-Oct-99	Punjab	431	6,890	Shinwari	17-Nov-99	Abandoned
499	Garhi	1	OGDCL	05-Nov-99	Punjab		16,795	Lockhart		Plugged & Abdn.
500	Chandesri	1	OGDCL	27-Dec-99	Punjab		7,028	Lower Goru		Plugged & Abdn.
501	Jhaberi	1	UTP	13-Jan-00	Sindh	60	4,699	Lower Goru	21-Jan-00	Oil/Gas
502	Chanda Deep	1	OGDCL	27-Jan-00	KPK.					Abandoned
503	Gwadar	1	OCEAN	31-Jan-00	Offshore	90	12,500	Parkini	23-Mar-00	Plugged & Abdn.
504	Sadiq	X-1	PPL	16-Feb-00	Sindh	240	3,845	Sui Main Lst.	17-Nov-99	Gas
505	Junathi South	1	UTP	17-Mar-00	Sindh	57	5,821	Lower Goru	25-Mar-00	Oil/Gas
506	Andhar	1	Lasmo	20-May-00	Baloch.		6,506	Parh Limestone		Plugged & Abdn.

Note: Shaded entries indicate discoveries.

Contd./...

OIL & GAS EXPLORATORY WELLS (Contd...)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
507	Dureji	1	Premier	25-Jun-00	Baloch.		8,025	Mughalkot	13-Aug-00	Plugged & Abdn.
508	Yusuf	X-1	PPL	27-Jun-00	Sindh	213	4,757	SML		Plugged & Abdn.
509	Suji	1	OMV	16-Jul-00	Punjab	394	8,615	Basement	29-Sep-00	Plugged & Abd.
510	Khokhar South	1	OGDCL	18-Jul-00	Sindh	69	6,890	Lower Goru	26-Aug-00	Plugged & Abd.
511	Khan	1	Tullow	16-Sep-00	Sindh	285	4,491	U. Goru	29-Sep-00	Abandoned
512	Southern Sindh	X-1	POL	05-Oct-00	Sindh	16	10,275	Chiltan	20-Nov-00	Abandoned
513	Khairgarh	1	Tullow	12-Oct-00	Sindh	256	4,593	U. Goru	25-Nov-00	Plugged & Abd.
514	Dabhi Deep	1	UTP	17-Oct-00	Sindh	72	8,632	Lower Goru	22-Nov-00	Plugged & Abd.
515	Bhit Mughalkot	1	Lasmo	18-Oct-00	Sindh		9,744			Plugged & Abd.
516	Gupchani	1	Tullow	16-Nov-00	Sindh	108	10,863	Lower Goru	27-Dec-00	Plugged & Abd.
517	Sabzal	1	POGC	16-Nov-00	Punjab	256	11,581	Sembar	26-Jan-01	Plugged & Abd.
518	Jacobabad	3	Hycarbex	27-Nov-00	Sindh		5,551	Chiltan		Plugged & Abd.
519	East Diwana	1	Lasmo	13-Jan-01	Baloch.		10,709	Mughalkot		Plugged & Abd.
520	Rajo	2	UTP	16-Jan-01	Sindh	30	5,000	Lower Goru		Oil
521	Lalian	1	Tullow	31-Jan-01	Sindh	318	3,215	Fort Munro	11-Feb-01	Plugged & Abd.
522	Uch Deep	1	OGDCL	19-Feb-01	Baloch.	335	5,669			Capped
523	Rehmat	1	Petronas	25-May-01	Sindh	184	11,601	Lower Goru		Gas
524	Uch Deep	1A	OGDCL	26-May-01	Baloch.		4,308	SML		Completed
525	Goth Bachal	1	OGDCL	30-Jun-01	Sindh	95	11,483	Lower Goru		Abandoned
526	Kausar	1	OPI	30-Jun-01	Sindh	102	9,247	Lower Goru		Gas
527	Tuba	1	OPI	21-Aug-01	Sindh	104	8,948	Lower Goru	19-Sep-01	Plugged & Abd.
528	Khushbakht	1	Petronas	02-Sep-01	Sindh	165	9,613	Lower Goru	11-Dec-01	Plugged & Abd.
529	Zarghun North	1	Premier	23-Nov-01	Baloch.		11,913	Chiltan		Plugged & Abd.
530	Chak 63	1	OGDCL	22-Dec-01	Sindh		9,843	Lower Goru		Oil/Gas
531	Chak 66	NE-1	OGDCL	07-Feb-02	Sindh		9,839	Lower Goru		Oil/Gas
532	Manzalai	1	MOL	06-Feb-02	KPK.		15,010	Datta		Gas/Cond.
533	Abri	1	OGDCL	07-Mar-02	Sindh		8,806	Lower Goru		Plugged & Abd.
534	Ganmbat	1	OMV	21-Mar-02	Sindh		11,142	Lower Goru	03-Mar-02	Plugged & Abd.
535	Feteh	1	OGDCL	25-Apr-02	Sindh		9,844	Lower Goru		Plugged & Abd.
536	Chak 2	1	OGDCL	10-Jun-02	Sindh		10,007	Lower Goru		Gas/Cond.
537	Jhaberi South	1	BP	15-Jun-02	Sindh	58	6,099	Lower Goru		Oil
538	Resham	1	OGDCL	18-Jun-02	Sindh	107	10,007	Lower Goru	04-Aug-02	Gas/Cond.
539	Garhi	X-1	OGDCL	12-Jun-02	Punjab		17,388	Lockhart		Plugged & Abd.
540	Benir	2	Premier	30-Jun-02	Sindh		11,814	Mughalkot		Plugged & Abd.
541	Boski	1	OGDCL	11-Jul-02	Punjab		14,429	Khewra S. St.		Plugged & Abd.
542	Barkat	1	OPI	02-Aug-02	Sindh		8,999	Lower Goru	14-Sep-02	Plugged & Abd.
543	Khanpur	X-1	PPL	01-Sep-02	Sindh		4,035		Oct-02	Gas
544	Norai Jagir	1	OGDCL	02-Sep-02	Sindh		7,300	Lower Goru	11-Oct-02	Gas/Cond.
545	Kamal	1	OPI	04-Sep-02	Sindh		9,639	Lower Goru	03-Jan-03	Suspended
546	Marjan	1	OPI	15-Sep-02	Sindh		8,652	Lower Goru	17-Nov-02	Suspended
547	Chak-3	1	OGDCL	18-Sep-02	Sindh		10,007	Lower Goru	26-Oct-02	Plugged & Abd.
548	Hallel	1	Lasmo	25-Sep-02	Sindh		10,979	Parh Formation		Plugged & Abd.
549	Hakeem Daho	1	OGDCL	27-Sep-02	Sindh		10,594	Lower Goru	16-Nov-02	Oil/Gas
550	Noorie	1	OPI	29-Sep-02	Sindh		10,474	Lower Goru	18-Dec-02	Plugged & Abd.
551	Chak-43	1	OGDCL	08-Oct-02	Sindh		10,072	Lower Goru	20-Nov-02	Plugged & Abd.
552	Dosa	X-1	POL	07-Oct-02	Punjab		15,722			Plugged & Abd.
553	Bahadur	1	OGDCL	12-Oct-02	Sindh		6,184	Lower Goru	15-Nov-02	Plugged & Abd.
554	Naimat Basal	1	OPI	13-Nov-02	Sindh		11,841	Lower Goru	20-Feb-03	Gas/Cond.
555	Naimat Basal	2X	UEPL	01-Dec-14	Sindh		12,733			Gas/Cond.
556	Bhullan Shah	1	OGDCL	14-Nov-02	Sindh		7,877	Lower Goru	23-Dec-02	Gas/Cond.
557	Chak-7A	1	OGDCL	23-Nov-02	Sindh		10,007	Lower Goru	Jan-03	Gas/Cond.
558	Kashmiri Goth	1	OGDCL	16-Dec-02	Sindh		10,256	Lower Goru	05-Mar-03	Plugged & Abd.
559	Khabar	1	OGDCL	12-Jan-03	Sindh		11,253	Lower Goru		Plugged & Abd.
560	Zirkani	1	PKP	18-Jan-03	Sindh		9,236	Pab Sandstone		Gas
561	Mehar	1	Petronas	01-Dec-03	Sindh		12,484	Mughalkot		Gas/Cond.
562	Began	1	OGDCL	02-Feb-03	Sindh		5,118	Lower Goru		Plugged & Abd.
563	Siraj	1	OPI	05-Mar-03	Sindh		10,650	Lower Goru	13-May-03	Plugged & Abd.
564	Gadap	1	BP	27-Apr-03	Sindh		7,612	Lower Goru	09-May-03	Plugged & Abd.
565	Rehan	1	Petronas	15-May-03	Sindh		11,401	Lower Goru		Plugged & Suspd.
566	Shah Dino	1	BP	01-Aug-03	Sindh		6,952	Lower Goru		Oil
567	Naimat North	1	OPI	25-May-03	Sindh		12,001	Lower Goru		Suspended
568	Siraj South	1	OPI	01-Aug-03	Sindh		10,559	Lower Goru		Gas/Cond.
569	Lakarai	1	OGDCL	02-Jun-03	Sindh		8,366	Goru		Plugged & Abd.
570	Shadani	1	OGDCL	07-Jun-03	Punjab		11,814	Alozai		Plugged & Abd.
571	Raj East	1	BP	17-Jun-03	Sindh		7,011	Lower Goru		Plugged & Abd.
572	Dars	1	OGDCL	01-Aug-03	Sindh		7,119	Lower Goru		Gas/Cond.
573	Basharat	1	Petronas	29-Jun-03	Sindh		14,436	SML		Plugged & Abd.
574	Mehran	1	BP	10-Jul-03	Sindh		11,204	Lower Goru	16-Oct-03	Plugged & Abd.
575	Khasarwari	1	OMV	19-Jul-03	Sindh		11,647	Lower Goru	01-Sep-03	Plugged & Abd.
576	Dangi	1	OGDCL	05-Aug-03	Sindh		13,625	Lower Goru	22-Nov-03	Plugged & Abd.
577	Inaam Basal	1	OPI	22-Aug-03	Sindh		10,154	Lower Goru	14-Oct-03	Plugged & Suspd.
578	Rehman	1	OPI	29-Aug-03	Sindh		12,522	Sembar	06-Nov-03	Plugged & Abd.
579	Shahpur	1	OPI	24-Sep-03	Sindh		11,847	Lower Goru	02-Feb-04	Plugged & Abd.
580	Zaur South	1	BP	21-Oct-03	Sindh		6,847	Lower Goru	30-Oct-03	Oil

Note: Shaded entries indicate discoveries.

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OIL & GAS EXPLORATORY WELLS (Contd...)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
581	Usman	1	OPI	29-Oct-03	Sindh		12,563	Lower Goru	20-Jan-04	Gas
582	Jhal Magsi South	1	OGDCL	19-Nov-03	Baloch.	238	14,075	Dunghan	Dec-04	Gas
583	Umar	1	OPI	18-Dec-03	Sindh		10,040	Lower Goru	16-Feb-04	Oil
584	Kandra	3	PEL	21-Dec-03	Sindh		2,175	SML		Suspended
585	Lala Jamali	1	OGDCL	26-Dec-03	Sindh		11,155	Lower Goru	24-Feb-04	Gas/Cond.
586	Talib	1	BP	17-Feb-04	Sindh		7,899	Lower Goru	29-Feb-04	Plugged & Abd.
587	Ramadan	1	PAIGE	20-Feb-04	Baloch.		14,856	Murgha Faqirzai		Suspended
588	Tuba Deep	1	OPI	28-Feb-04	Sindh		11,995	Lower Goru	19-Apr-04	Plugged & Abd.
589	Fateh Shah	1	BP	04-Mar-04	Sindh		8,816	Lower Goru	19-Mar-04	Gas
590	Inayat	1	BP	13-Mar-04	Sindh		7,812	Lower Goru	02-Apr-04	Plugged & Abd.
591	Makori	1	MOL	16-Mar-04	KPK	2,117	14,131	Tredian	Jan-05	Gas/Cond.
592	Aulia	1	OGDCL	27-Mar-04	Sindh		12,228	Lower Goru		Plugged & Susp.
593	Ali Zaur	1	BP	03-Apr-04	Sindh		6,868	Lower Goru	15-Apr-04	Oil
594	Sidiq	1	OPI	12-Apr-04	Sindh		10,545	Lower Goru	06-Jul-04	Suspended
595	Bhan	1	ENI	15-Apr-04	Sindh		10,177	Fort Munro	19-May-04	Plugged & Abd.
596	Dars West	1	OGDCL	23-Apr-04	Sindh	72	6,896	Lower Goru	Jul-04	Gas/Cond.
597	Chung	1	PKP	03-May-04	Sindh		6,644	Mughalkot		Plugged & Abd.
598	PakG2	1	TOTAL	12-May-04	Offshore		15,584			Plugged & Abd.
599	Ali	1	OPI	19-May-04	Sindh	107	11,001	Lower Goru	Jul-04	Gas/Cond.
600	Pasakhi Deep	1	OGDCL	27-May-04	Sindh	96	13,648	Chiltan	Feb-05	Gas/Cond.
601	Dhubi	1	OGDCL	17-Jun-04	Sindh		10,335	Lower Goru		Plugged & Abd.
602	Drabo Kas	1	OGDCL	27-Jun-04	Sindh		14,436	Kuldan		Plugged & Abd.
603	Fateh Shah North	1	BP	07-Aug-04	Sindh	45	8,770	Lower Goru	Oct-04	Gas
604	Fatima	1	OPI	12-Aug-04	Sindh	106	7,188	Lower Goru		Plugged & Abd.
605	Jumman Shah	1	OGDCL	04-Sep-04	Sindh		12,467	Chiltan		Plugged & Abd.
606	Bilal North	1	OPI	19-Oct-04	Sindh	110	10,364	Lower Goru		Gas/Cond.
607	Malukani	1	OGDCL	17-Dec-04	Sindh	108	10,827	Lower Goru		Plugged & Abd.
608	Mehar North	1	Petronas	27-Dec-04	Sindh		13,025	Upper Goru		Plugged & Abd.
609	Saba	1	OGDCL	29-Dec-04	Punjab		13,484	Salt Range		Plugged & Abd.
610	Dewan	1	Rally Energy	02-Jan-05	Punjab		9,049	Sembar	Mar-05	Gas/Cond.
611	Mari SML	1	MGCL	16-Feb-05	Sindh	230	4,160	Sui Main L.st.	Apr-05	Gas
612	Pasni	X-2	PPL	18-Feb-05	Offshore	89	13,123	Panjgur		Plugged & Abd.
613	Chak 63 South East	1	OGDCL	19-Mar-05	Sindh		10,499	Lower Goru	May-05	Gas/Cond.
614	Haseeb	1	Hycarbex	25-Mar-05	Sindh		4,944	Ranikot	May-05	Gas
615	Ali Sahib	1	OGDCL	30-Mar-05	Punjab	465	6,732	Kingriali		Plugged & Abd.
616	Mela	1	OGDCL	11-Apr-05	KPK		16,243	Datta	Sep-06	Oil/Gas
617	Bilal	1	OPI	18-Apr-05	Sindh		10,344	Lower Goru	Jun-05	Gas/Cond.
618	Duljan Re-entry	1	OMV	06-May-05	Sindh		12,943	Lower Goru		Plugged & Abd.
619	Tando A.Y North	1	OGDCL	11-Jun-05	Sindh		5,643	Lower Goru		Oil/Gas
620	Sachal	1	OPI	21-Jun-05	Sindh		10,607	Sembar		Plugged & Abd.
621	Amir Wali	1	OGDCL	28-Jun-05	Punjab		6,722	Kingriali		Plugged & Abd.
622	Nara	1	OMV	17-Jul-05	Sindh		12,060	Lower Goru	20-Sep-05	Plugged & Abd.
623	Kunar Deep	1	OGDCL	20-Jul-05	Sindh		10,974	Sembar	17-Nov-05	Gas/Cond.
624	Maliri	1	Premier	11-Aug-05	Sindh		2,989	Pab Formation	06-Sep-05	Plugged & Abd.
625	Jhal Magsi North	1	OGDCL	01-Sep-05	Baloch.		13,747	Dunghan	26-Jan-06	Plugged & Abd.
626	Lashari Deep	1	OGDCL	21-Sep-05	Sindh		10,820	Sembar	22-Dec-05	Plugged & Abd.
627	Nim	1	OGDCL	23-Sep-05	Sindh		10,860	Sembar		Gas/Cond.
628	Ziarat	1	MGCL	28-Sep-05	Baloch.		3,445	Chiltan	28-Dec-05	Gas
629	Bhagan Wali	1	OGDCL	31-Oct-05	Punjab		15,748	Murree		Plugged & Abd.
630	Dars Deep	1	OGDCL	07-Nov-05	Sindh		11,115	Sembar	30-Jan-06	Gas/Cond.
631	Jander	1	OGDCL	20-Nov-05	Punjab		6,742	Kingriali	27-Dec-05	Plugged & Abd.
632	Ballo Uthwal	1	OGDCL	05-Dec-05	Punjab		12,274	Salt Range		Suspended
633	Sono South	1	OGDCL	30-Dec-05	Sindh		8,038	Lower Goru	19-Feb-06	Plugged & Abd.
634	Bukhari Deep	1	BP	09-Jan-06	Sindh		8,559	Lower Goru	05-Feb-06	Gas
635	Kunner West	1	OGDCL	01-Feb-06	Sindh		12,090	Sembar		Plugged & Abd.
636	Bahu	1	OGDCL	06-Feb-06	Punjab		9,695	Salt Range		Gas
637	Shahpur Chakar	1	Tullow	21-Feb-06	Sindh		11,106	Lower Goru		Plugged & Abd.
638	Pasakhi North East	1	OGDCL	05-Mar-06	Sindh		12,408	Sembar		Oil
639	Barhun	1	OGDCL	28-Mar-06	Sindh		11,801	Sembar		Plugged & Abd.
640	Al-Ali	1	Hycarbex	25-Apr-06	Sindh		4,265	SML		Temp. Suspen'd
641	Sumari Deep X	1	MOL	07-May-06	KPK		7,621	Datta		Plugged & Abd.
642	Dakhni Deep	1	OGDCL	12-May-06	Punjab		15,840	Tredian		Gas/Cond.
643	Qadirpur Deep	1	OGDCL	13-May-06	Sindh		15,400	Chiltan		Suspended
644	Siraj North	1	OPII	31-May-06	Sindh		10,427	Lower Goru		Suspended
645	Sakhi South Deep	1	BP	29-May-06	Sindh		9,377	Lower Goru		Gas
646	Norai Jagir East	1	OGDCL	07-Jun-06	Sindh		11,319	Sembar		Plugged & Abd.
647	Unar	1	OGDCL	22-Jun-06	Sindh		13,451	Chiltan		Gas/Cond.
648	Sari Deep	1	OGDCL	19-Jun-06	Sindh		4,275	Upper Ranikot		Temp. Suspen'd
649	Chak12	1	OGDCL	25-Jun-06	Punjab		6,985	Kingriali		Plugged & Abd.
650	Nim West	1	OGDCL	28-Jun-06	Sindh		11,516	Sembar		Gas
651	Bagh X	1	OGDCL	28-Jun-06	Punjab		4,587	Kingriali		Plugged & Abd.

Note: Shaded entries indicate discoveries.

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OIL & GAS EXPLORATORY WELLS (Contd...)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
652	Sarang X	1	PPL	29-Jun-06	Punjab		15,666	Khewra S. St.		Plugged & Abd.
653	Khario	1	OGDCL	30-Jun-06	Sindh		13,586	Sembar		Plugged & Abd.
653	Chak 66 NE	1	OGDCL	30-Jun-06	Sindh		11,270	Lower Goru		Gas/Cond.
654	Ahmad	1	OPII	26-Jul-06	Sindh		13,127	Lower Goru	20-Sep-06	Gas
655	Chak 14	1	OGDCL	15-Aug-06	Sindh		11,565	Lower Goru	25-Dec-06	Plugged & Abd.
656	Kahi Deep X	1	MOL	15-Aug-06	KPK		6,890	Samana Suk		Plugged & suspd.
657	Hashim	1	POL	27-Sep-06	Sindh		11,824	Lower Goru		Plugged & Abd.
658	Saqib	1	Petronas	21-Oct-06	Sindh		5,705			Plugged & suspd.
659	Michko	1	OMV	28-Oct-06	Sindh		11,220	Lower Goru	21-Jan-06	Plugged & Abd.
660	Mami Khel	1	MOL	28-Oct-06	KPK		13,451	Kingriali	Mar-08	Gas/Cond.
661	Kamal North	1	OPII	06-Nov-06	Sindh		9,888	Lower Goru	10-Dec-06	Gas/Cond.
662	Thora Deep	1	OGDCL	21-Nov-06	Sindh		12,815	Sembar	27-Apr-07	Gas/Cond.
663	Kunar West 1A	1	OGDCL	02-Dec-06	Sindh		13,337	Chiltan	05-Apr-07	Gas/Cond.
664	Zaur West	1	BP	11-Dec-06	Sindh		7,304	Lower Goru	26-Dec-06	Gas/Cond.
665	Chandio	1	OGDCL	13-Dec-06	Sindh		12,008	Sembar	19-Mar-07	Gas/Cond.
666	Dhachrapur	1	OGDCL	14-Dec-06	Sindh		11,516	Sembar	28-Mar-07	Gas
667	Jadu	1	OGDCL	30-Dec-06	Sindh		9,843	Sembar		Plugged & Abd.
668	Bahu North	1	OGDCL	31-Dec-06	Punjab		6,339	Kingriali		Plugged & Abd.
669	Sinjhor North	1	OGDCL	31-Dec-06	Sindh		11,539	Sembar	22-Mar-07	Plugged & Abd.
670	Latif	1	OMV	19-Jan-07	Sindh		11,549	Lower Goru	06-Feb-07	Gas
671	Ghazi	1	OPII	10-Jan-07	Sindh		9,053	Lower Goru	19-Feb-07	Plugged & suspd.
672	Rahim	1	OPII	12-Mar-07	Sindh		10,499	Lower Goru	04-May-07	Oil/Gas
673	Tajjal	1	OMV	16-Mar-07	Sindh		14,783	Lower Goru	27-Apr-07	Gas
674	Phalkara	1	BP	22-Mar-07	Sindh		6,093	Lower Goru	05-Apr-07	Plugged & Abd.
675	Khadegi	1	OGDCL	30-Mar-07	Sindh		9,186	Mughalkot		Plugged & Abd.
676	Sari Deep 1A	1	OGDCL	19-Mar-07	Sindh		8,891	Pab		Suspended
677	Adam X	1	PPL	04-Jul-07	Sindh		11,699	Lower Goru		Gas/Cond.
678	Hashim Kher	1	OGDCL	30-Apr-07	Sindh		13,533	Chiltan		Plugged & Abd.
679	Al Hakeem	1	OPII	17-May-07	Sindh		9,491	Lower Goru		Plugged & Abd.
680	Zikria	1	OGDCL	21-May-07	Punjab		14,731	Basement		Plugged & Abd.
681	Maluk	1	OGDCL	25-May-07	Punjab		12,080	Sembar		Plugged & Abd.
682	TM	1	Saif	09-Jun-07	Sindh		8,219	Mughalkot		Plugged & Abd.
683	Sakhi Sarwar Re entry	1	OPII	12-Jun-07	Punjab		15,184	Pab Sandstone		Plugged & Abd.
684	Sanghar	1	OGDCL	24-Jun-07	Sindh		10,935	Lower Goru		Plugged & Abd.
685	Dakhni South West	1	OGDCL	24-Jun-07	Punjab		18,812	Tredian		Plugged & Abd.
686	Pasakhi East	1	OGDCL	29-Jun-07	Sindh		13,701	Chiltan	Jan-08	Gas/Cond.
687	Moolan	1	OGDCL	29-Jun-07	Sindh		7,943		Nov-08	Gas/Cond.
688	Lashari South West	1	OGDCL	29-Jun-07	Sindh		7,612			Drilling
689	Dhodhak Deep	1	OGDCL	29-Jun-07	Punjab		13,615	Chiltan	Jun-08	Gas
690	Missri	1	BP	07-Jul-07	Sindh		4,478	Lower Goru		Gas
691	Al Baraka North	1	Dewan	20-Jul-07	Punjab		6,722	Chiltan	10-Jun-07	Suspended
692	Bhitai	1	MGCL	09-Jun-07	Sindh		3,944			Gas
693	Sawan East	1	OMV	09-Oct-07	Sindh		12,720	Lower Goru	14-Oct-07	Plugged & Abd.
694	Anne-Ax	1	Shell	10-Jan-07	Offshore		10,686		19-Nov-07	Plugged & Abd.
695	Saqib	1A	Petronas	10-Aug-07	Sindh		11,827	Lower Goru	13-Feb-08	Gas/Cond.
696	Sono Deep	1	OGDCL	10-Sep-07	Sindh		11,516	Sembar		Suspended
697	Pakhro	1	OGDCL	15-Dec-07	Sindh		12,113	Lower Goru	28-Apr-08	Gas/Cond.
698	Kamal West	1	OPII	19-Dec-07	Sindh		11,603	Lower Goru	05-Feb-08	Plugged & Abd.
699	Shahrig	1	MGCL	10-Jan-08	Balochistan		5,085	Chiltan	29-Mar-08	Plugged & Abd.
700	Qalander	1	MGCL	14-Jan-08	Sindh		3,885	SML	29-Feb-08	Suspended
701	Reti	1	OGDCL	12-Jan-08	Sindh		10,171	Lower Goru	01-Apr-08	Suspended
702	Badhra South	1	ENI	19-Jan-08	Sindh		6,808	Parh	12-Apr-08	Suspended
703	Kunar South	1	OGDCL	21-Jan-08	Sindh		11,007	Sembar		Gas/Cond.
704	Moolan North	1	OGDCL	24-Jan-08	Sindh		7,641	Lower Goru	17-Apr-08	Oil
705	Dinan Shah	1	OMV	18-Feb-08	Sindh		3,642	SML	03-Mar-08	Plugged & Abd.
706	Koonj	1	MGCL	24-Feb-08	Sindh		1,070			Plugged & Abd.
707	Bela	1	POL	04-Mar-08	Punjab		15,061			Gas/Cond.
708	Azim	1	POL	14-Mar-08	Sindh		6,850	Mughalkot		Plugged & Abd.
709	Watayo	1	MGCL	20-Mar-08	Sindh		3,878	SML		Plugged & Abd.
710	Koonj	1A	MGCL	22-Apr-08	Sindh		4,839			Gas
711	Nur Deep	1	OGDCL	21-Apr-08	Sindh		14,820	Chiltan		Plugged & Abd.
712	Sofiya	1	OMV Maurice	17-Apr-08	Sindh		11,811	Ranikot		Plugged & Abd.
713	Bitrisim	1	OGDCL	14-Jun-08	Sindh		12,106	Chiltan		Plugged & Abd.
714	Nashpa	1	OGDCL	29-Jun-08	KPK		14,354	Lockhart		Oil/Gas
715	Khawaja	1	OGDCL	30-Jun-08	KPK		17,690	Lockhart		Temp. Suspended
716	Pirane	1	POL	30-Jun-08	Sindh		7,654	Ranikot		Plugged & Abd.
717	Dakhni North	1	OGDCL	07-Oct-08	Punjab		19,160	Lockhart		Plugged & Abd.
718	Wahid Bukhsh	1	OGDCL	07-Dec-08	Sindh		13,524	Lower Goru	10-Apr-08	Temp. Suspended

Note: Shaded entries indicate discoveries.

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OIL & GAS EXPLORATORY WELLS (Contd...)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
719	Kandra	4D	PEL	16-Dec-08	Sindh		7,313	Chiltan	26-Oct-08	Suspended
720	Thatta East	1	OGDCL	17-Aug-08	Sindh		11,486	Lower Goru		Plugged & Abd.
721	Yasin	1	Hycarbex	21-Nov-08	Sindh		4,364			Plugged & Abd.
722	Allah Waraia	1	OGDCL	28-Nov-08	Sindh		11,106	Sembar	14-Feb-09	Plugged & Abd.
723	Bodla Bahar	1	MGCL	01-Dec-08	Sindh		3,425			Plugged
724	Tajjal West	1	OMV	19-Dec-08	Sindh		11,978			Plugged & Abd.
725	Domial	1	POL	21-Dec-08	Punjab		16,436	Patala		Oil/Gas
726	Jamali Deep	1	PEL	31-Dec-08	Sindh		12,671	Sembar	08-Jun-09	Suspended
727	Pasakhi West Deep	1	OGDCL	14-Jan-09	Sindh		11,483	Sembar	24-May-09	Gas Cond.
728	Qaim	1	OGDCL	05-Feb-09	Punjab		5,535	Shinwari		Plugged & Abd.
729	Rafay	1	PEL	31-Dec-08	Sindh		12,024	Lower Goru	30-Apr-09	Suspended
730	Bado Jabal	1	ENI	24-Mar-09	Sindh		15,787	Chiltan		Plugged & Abd.
731	Maharvi	1	OPII	25-Mar-09	Punjab		7,452	Basement		Plugged & Abd.
732	Baloch	1	OGDCL	26-Mar-09	Sindh		11,362	Sembar		Oil/Gas
733	Tangna Pusht	X1	PPL	26-Mar-09	Balochistan		6,791	Parh Limestone	04-Jun-09	Plugged & Abd.
734	POGC Rehman	1	POGC	04-Apr-09	Sindh		9,186	Mughalkot		Gas
735	Sahib Gul	1	OGDCL	06-Apr-09	KPK		14,094	Samana Suk		Plugged & Abd.
736	Maramzai	1	MOL	23-May-09	KPK		11,237	Kingriali		Gas Cond.
737	Yaqut	1	Dewan	13-May-09	Punjab		10,663	Chiltan Limestone		Gas Cond.
738	Dhodak Rubbly	1	OGDCL	14-Jun-09	Punjab		3,484	Ghazij Shale		Plugged & Abd.
739	Rind Baloch	1	OGDCL	15-Jun-09	Sindh		7,966	Lower Goru		Plugged & Abd.
740	Khaskheli Downthrown	1	BP	25-Jun-09	Sindh		5,806	Lower Goru	05-Jul-09	Oil
741	Mari Deep	14	MGCL	27-Jun-09	Sindh		13,648			Gas
742	Reti	1A	OGDCL	28-Jun-09	Sindh		2,526	Habib Rahi		Gas
743	Tando Jam	1	OGDCL	28-Jun-09	Sindh		11,581	Sembar		Plugged & Abd.
744	Putra	1	Petronas	02-Jul-09	Sindh		10,991	Lower Goru	12-Jul-09	Plugged & Abd.
745	Thar	1	ENI	04-Jul-09	Sindh		4,954	Chiltan	17-Jul-09	Plugged & Abd.
746	Makori West	1	MOL	09-Jul-09	KPK		14,304	Shinwari		Plugged & Suspd.
747	Gul Badeen	1	OGDCL	26-Sep-09	Sindh		11,345		28-Dec-09	Plugged & Abd.
748	Baqar Deep	1	BP	07-Oct-09	Sindh		11,453	Lower Goru	26-Nov-09	Gas Cond.
749	Shah	1	OGDCL	28-Oct-09	Sindh		10,915	Sembar		Gas Cond.
750	Shekhan	1	OGDCL	11-Nov-09	Sindh		9,219	Samana Suk		Gas
751	Malik	1	BP	18-Nov-09	KPK		5,013	Lower Goru	24-Nov-09	Plugged & Abd.
752	Maru	1	OGDCL	25-Dec-09	Sindh		2,598	Habib Rahi		Gas
753	Latif North	1	OMV	31-Dec-09	Sindh		11,516	Ranikot		Gas
754	Siddiq St	1	BP	03-Jan-10	Sindh		10,853			Temp. Suspended
755	Shark	1	ENI	17-Jan-10	Offshore		11,843			Plugged & Abd.
756	Sujawal	X1	MGCL	06-Feb-10	Sindh		9,843			Gas Cond.
757	Sundrani	1	OGDCL	19-Feb-10	Sindh		13,156	Lower Goru		Temp. Suspended
758	Gopang	1	OGDCL	04-Mar-10	Sindh		8,041	Lower Goru		Gas Cond.
759	Qadirpur Pk	1	OGDCL	06-Mar-10	Sindh		2,838	Sirki		Plugged & Abd.
760	Tangri Deep	1	BP	23-Mar-10	Sindh		10,863	Lower Goru		Gas
761	Thal	1	OGDCL	30-Mar-10	Sindh		5,778	Lower Goru		Plugged & Abd.
762	Haider Deep	1	BP	07-May-10	Sindh		13,694	Lower Goru		Gas
763	Duljan East	1	OMV	21-May-10	Sindh		11,893	Lower Goru		Temp. Suspended
764	Tolanj	X1	MOL	21-Jun-10	KPK		18,045			Gas
765	Chak 35	1	OGDCL	23-Jun-10	Punjab		7,480	Amb		Plugged & Abd.
766	Chak 205	1	OGDCL	26-Jun-10	Punjab		5,397	Ranikot		Plugged & Abd.
767	Bangala	1	OGDCL	30-Jun-10	Punjab		4,731	Kingriali		Plugged
768	Chak Naurang South	1	OGDCL	30-Jun-10	Punjab		10,566			Testing
769	Chak 216 West	1	OGDCL	30-Jun-10	Punjab		5,217	Ranikot		Plugged & Abd.
770	Sehar	1	OGDCL	08-Jul-10	Punjab		5,030	SML	24-Sep-10	Plugged & Abd.
771	MG	1	MOL	17-Jul-10	Islamabad		17,388	Murree		Suspended
772	Karim	1	Saif Energy	18-Jul-10	Sindh		4,888	Upper Goru	29-Aug-10	Plugged & Abd.
773	Makori East	1	MOL	30-Aug-10	KPK		16,076	Datta		Oil & Gas
774	Kunri	1A	New Horizon	06-Oct-10	Sindh		7,874	Sembar	06-Nov-10	Plugged & Abd.
775	Jherruck	B1	New Horizon	14-Dec-10	Sindh		9,186	Lower Goru	03-Feb-11	Plugged & Suspd.
776	Halini	1	MGCL	07-Jan-11	Punjab		17,552			Oil
777	Bhit Shah	X1	PPL	25-Apr-11	Sindh		12,238			Temp. Suspended
778	Wahid	1	PEL	03-May-11	Sindh		7,480	Lower Goru		Plugged & Abd.
779	Zin	X1	OGDCL	09-May-11	Balochistan		5,656			Drilling

Note: Shaded entries indicate discoveries.

Contd./...

OIL & GAS EXPLORATORY WELLS (Contd...)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
780	Mulaki	1	UEP	14-May-11	Sindh		11,181			Oil & Gas
781	Jabbi	1	OGDCL	25-May-11	KPK		9,478			-
782	Gulsher	1	OGDCL	09-Jun-11	Sindh		4,357			-
783	Suleman	1	OGDCL	11-Jun-11	Sindh		12,162			Drilling
784	Ajuwala	1	OGDCL	20-Jun-11	Sindh		4,688			-
785	Maru South	1	OGDCL	30-Jun-11	Sindh		2,362			Gas
786	Kakejani	1	UEP	11-Jul-11	Sindh		6,043	Lower Goru	25-Jul-11	Suspended
787	Dhulian Deep	1	POL	18-Jul-11	Punjab		11,529			Suspended
788	Misri Bhambro	1	OMV	08-Aug-11	Sindh		11,719		03-Oct-11	Suspended
789	Lundo	1	OMV	18-Oct-11	Sindh		13,337		13-Dec-11	Suspended
790	Nurpur Deep	1	UEP	31-Oct-11	Sindh		12,992			Gas
791	Patari	1	UEP	14-Nov-11	Sindh		3,448	Lower Goru	28-Nov-11	Plugged & Abd.
792	Uch Deep	1	OGDCL	28-Dec-11	Balochistan		8,038	Parh Limestone	14-Apr-12	Suspended
793	Mohano	1	UEP	01-Jan-12	Sindh		5,666	Lower Goru	17-Jan-12	Oil
794	Wajid	1	Saif Energy	23-Jan-12	Sindh		6,975	Khadro	09-Apr-12	Suspended
795	Gharo	1	UEP	27-Jan-12	Sindh		4,380	Lower Goru	04-Feb-12	Oil
796	Sadrial	1	POL	12-Feb-12	Punjab		11,916			-
797	Pir Apan	1	UEP	15-Feb-12	Sindh		7,070	Lower Goru	27-Feb-12	Gas
798	Mehrab	1	OMV	01-Mar-12	Sindh		12,598		03-May-12	Suspended
799	Bahawalpur X	1	PPL	11-Mar-12	Punjab		9,416		02-Jun-12	Plugged & Abd.
800	Piaro Deep	1	UEP	01-Apr-12	Sindh		8,507	Lower Goru	15-Apr-12	Gas
801	Mian Miro	1	MGCL	12-Apr-12	Sindh		4,101		26-May-12	Suspended
802	Rajo South	1	UEP	20-Apr-12	Sindh		4,951			Suspended
803	Badhra-B North	1	ENI	24-May-12	Sindh		2,470			-
804	Narang Shah	1	OGDCL	29-May-12	Punjab		2,267			-
805	Kohat	1	OGDCL	28-Jun-12	KPK		282			-
806	Aradin	1	OGDCL	30-Jun-12	Sindh		167			-
807	Shekhano	1	UEPL	13-Jul-12	Sindh		4,590	Lower Goru	22-Jul-12	Oil
808	Raja	1	OGDCL	15-Jul-12	Sindh		13,120			Suspended
809	Multan North	1	OGDCL	07-Aug-12	Punjab		6,168	Kingriali	10-Sep-12	Plugged & Abd.
810	Rahim North	1	UEPL	23-Sep-12	Sindh		10,610	Lower Goru	26-Nov-12	Oil & Gas
811	Mewa	1	UEPL	03-Oct-12	Sindh		6,762	Lower Goru	15-Oct-12	Gas
812	Qasim Deep	1	UEPL	09-Oct-12	Sindh		13,576			Drilling
813	Bijoro	1	UEPL	28-Oct-12	Sindh		9,682	Lower Goru	14-Dec-12	Oil
814	Naimat West	1	UEPL	19-Nov-12	Sindh		12,077	Lower Goru	13-Jan-13	Gas
815	Shekhano Deep	1	UEPL	20-Nov-12	Sindh		7,425		06-Jan-13	Oil
816	Qabul	1	UEPL	22-Nov-12	Sindh		8,891		23-Jan-13	Oil
817	Rajpari	1	UEPL	27-Dec-12	Sindh		13,566		10-Apr-13	Testing
818	Musa	1	UEPL	03-Jan-13	Sindh		7,671			Suspended
819	Khaskheli North	1	UEPL	10-Jan-13	Sindh		6,401		08-Feb-13	Gas Cond.
820	Malah	1	UEPL	10-Jan-13	Sindh		5,499		14-Feb-13	Gas Cond.
821	Ludali	1	ENI Pakistan	22-Jan-13	Sindh		8,727		20-Apr-13	Gas
822	Hadeki	1	UEPL	28-Jan-13	Sindh		8,442			Temp. Suspended
823	Sumar	1	UEPL	12-Feb-13	Sindh		7,766			Testing
824	Wafiq	1	PPL	18-Feb-13	Sindh		11,647			Gas Cond.
825	Sofiya	2	OMV Maurice	24-Feb-13	Sindh		13,025			-
826	Bahar	1	UEPL	01-Mar-13	Sindh		9,140			Temp. Suspended
827	Lodano	1	UEPL	20-Mar-13	Sindh		8,478			Gas
828	Tando Qaisar	1	OGDCL	25-Mar-13	Sindh		7,858		31-May-13	Plugged & Abd.
829	Shahdad	X1	PPL	31-Mar-13	Sindh		12,024			Drilling
830	Kurram	1	OGDCL	06-Apr-13	Punjab		9,114			-
831	Rehan	2	OMV Maurice	08-Apr-13	Sindh		11,647		29-May-13	Plugged & Abd.
832	Soghri	X1	OGDCL	16-Apr-13	Sindh		16,076			Gas Cond.
833	MGP	1	MGCL	12-May-13	Sindh		1,808			Testing
834	Sohniwala	1	OGDCL	20-May-13	Sindh		6,430			Plugged & Abd.
835	Shekhano South	1	UEPL	21-May-13	Sindh		3,737			Temp. Suspended
836	Kot	1	MOL	26-May-13	KPK		6,982			-
837	MPX	1	MGCL	01-Jun-13	Sindh		2,188		06-Jun-13	Testing
838	MP	1	MGCL	19-Jun-13	Sindh		1,814		03-Jul-13	Testing
839	Jand	1	OGDCL	24-Jun-13	Sindh		19,849			Gas Cond.
840	Lodano Deep	1	OGDCL	27-Jun-13	Sindh		2,539			Drilling

Note: Shaded entries indicate discoveries.

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OIL & GAS EXPLORATORY WELLS (Contd...)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
841	Zin Deep	1	OGDCL	30-Jun-13	Balochistan		43			-
842	Odenaji	1B	UEP	20-Jul-13	Sindh		5,043			Temp. Suspnd.
843	Thebo	1	UEP	24-Jul-13	Sindh		12,438	Sembar	08-Oct-13	Gas Cond.
844	Jarar Deep	1	UEP	05-Aug-13	Sindh		8,274	Lower Basal Sand	27-Aug-13	Gas
845	Sumar Deep	1	UEP	09-Aug-13	Sindh		10,574			Gas Cond.
846	Hanna	X1	MGCL	12-Aug-13	Balochistan		3,642			Plugged & Abd.
847	Sutiari Deep	1	UEP	14-Aug-13	Sindh		11,900	Sembar	15-Oct-13	Temp. Suspnd.
848	Aro Khan	1	PPL	15-Aug-13	Balochistan		9,843			Plugged & Abd.
849	Tajjal South	1	OMV	09-Sep-13	Sindh		13,235		01-Nov-13	Plugged & Abd.
850	Pindori	9	POL	11-Sep-13	Punjab		13,681		-	
851	Nohani	1	UEP	12-Sep-13	Sindh		4,180	Lower Goru	18-Sep-13	Temp. Suspnd.
852	Jakhro West	1	OGDCL	18-Sep-13	Sindh		11,493	Sembar	01-Mar-14	Temp. Suspnd.
853	Rathore Deep	1	UEP	26-Sep-13	Sindh		8,150	Sembar	11-Oct-13	Gas
854	Naushahro Feroz	X1	PPL	03-Oct-13	Sindh		12,379	Chiltam Limestone	27-Mar-14	Gas Cond.
855	Gagani	1	UEP	15-Oct-13	Sindh		3,241		22-Oct-13	Gas
856	Sohrab Deep	1	UEP	01-Nov-13	Sindh		13,058		02-Jan-14	Gas Cond.
857	Odejani Deep	1	UEP	41580	Sindh		6,903	Lower Basal Sand	19-Nov-13	Temp. Suspnd.
858	Amdani	1	UEP	02-Nov-13	Sindh		3,921	Lower Goru	04-Dec-13	Gas
859	Ghauri	X1	UEP	04-Nov-13	Punjab		13,091			Oil
860	Bakhsh Deep	1	UEP	07-Nov-13	Sindh		13,074			Gas Cond.
861	Ragni Deep	1	UEP	24-Nov-13	Sindh		14,616			Gas
862	Rahim	X2	UEP	01-Dec-13	Sindh		12,313		13-Feb-14	Gas Cond.
863	Bhatti Deep	1	UEP	03-Dec-13	Sindh		9,751	Lower Basal Sand	25-Jan-14	Testing
864	Aassu	1	UEP	04-Dec-13	Sindh		6,775	Lower Shale	14-Dec-13	Oil
865	Sawan North	1	OMV	12-Dec-13	Sindh		15,856	Lower Goru	07-Feb-14	Suspended
866	Malki	X1	PPL	13-Dec-13	Sindh		11,834			Plugged & Abd.
867	Piro	1	UEP	13-Dec-13	Sindh		3,809	Lower Goru	23-Dec-13	Plugged & Abd.
868	Jhok	1	UEP	20-Dec-13	Sindh		4,826			Gas
869	Ayesha	1	PEL	31-Dec-13	Sindh		7,874		26-Jan-14	Gas Cond.
870	Falah	X1	PPL	31-Dec-13	Sindh		12,585			Plugged & Abd.
871	Maru East	1	OGDCL	25-Jan-14	Sindh		2,526			Gas
872	Sujjal	1	MPCL	27-Jan-14	Sindh		8,317			Gas Cond.
873	Mansoor Deep	1	UEP	04-Feb-14	Sindh		14,393			Oil
874	Surjani	1	UEP	06-Feb-14	Sindh		7,333			Testing
875	Haleema	1	PEL	27-Feb-14	Sindh		6,066			Plugged & Abd.
876	Malgin	1	MOL	28-Feb-14	KPK		15,436			Drilling
877	Manna	1	OGDCL	03-Mar-14	Sindh		10,830			Drilling
878	Kolachi	1	UEP	09-Mar-14	Sindh		7,917		23-Mar-14	Suspended
879	Murid	1	UEP	12-Mar-14	Sindh		5,797		22-Mar-14	Oil
880	Hanif	1	OGDCL	30-Mar-14	Sindh		10,243			Drilling
881	Chak-25	C-1	OGDCL	09-Apr-14	Sindh		7,546			Drilling
882	Nando	1	UEP	10-Apr-14	Sindh		8,307		08-May-14	Gas
883	Sharf	X1	PPL	19-Apr-14	Sindh		12,238			Gas Cond.
884	Adam West	X1	PPL	20-May-14	Sindh		13,310			Gas Cond.
885	Umrans	X1	PPL	22-May-14	Sindh		8,202			Plugged & Abd.
886	Karam	1	UEP	14-May-14	Sindh		9,209			Drilling
887	Sohrab Deep	2	UEP	11-May-14	Sindh		13,602			Drilling
888	Karkh	X1	PPL	08-Jun-14	Balochistan		1,148			Drilling
889	Nazar	1	UEP	08-Jun-14	Sindh		4,088		21-Jun-14	Drilling
890	Gohar	X1	PPL	14-Jun-14	Sindh		2,641			Drilling
891	MGN	1	MOL	18-Jun-14	KPK		1,572			Drilling
892	Palli Deep	1	OGDCL	01-Jul-14	Sindh		13,287	Chiltan	02-Feb-15	Oil
893	Suhrat	1	UEPL	08-Jul-14	Sindh		9,610	Lower Basal Sand	27-Jul-14	Gas
894	Nashpa	X5	OGDCL	16-Jul-14	KPK		15,279			Drilling
895	Kinza	X1	PPL	28-Jul-14	Sindh		12,123	Massive Sands		Gas Cond.
896	Saleh	1	UEPL	04-Aug-14	Sindh		12,070	Lower Basal Sand	12-Sep-14	Oil
897	Rajani	1	UEPL	16-Aug-14	Sindh		15,374	Lower Basal Sand	19-Nov-14	Gas
898	Dhani	1	UEPL	16-Aug-14	Sindh		8,366			Oil
899	Kamal North	3	UEPL	30-Aug-14	Sindh		14,980	Chiltan	19-Nov-14	Gas Cond.
900	Mardankhel (S&S)	1	MOL	17-Sep-14	KPK		16,115	Datta	17-Feb-15	Gas Cond.
901	Blakassar	X1	POL	18-Sep-14	Punjab		9,078			Plugged & Abd.
902	Jarwar	1	OGDCL	19-Sep-14	Sindh		4,843	Upper Shale	07-Nov-14	Oil

Note: Shaded entries indicate discoveries.

Contd./...

OIL & GAS EXPLORATORY WELLS (Contd...)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
903	Korai	1	UEPL	01-Oct-14	Sindh		10,367	Lower Basal Sand	14-Nov-14	Gas
904	Salamat	1	UEPL	06-Oct-14	Sindh		15,912			Gas
905	Lutf	1	UEPL	09-Oct-14	Sindh		11,969	Chiltan	14-Nov-14	Temp. Suspnd.
906	Rizq	1	POGC	11-Oct-14	Sindh		10,410			Gas
907	Faiz	X1	PPL	17-Oct-14	Sindh		11,693	Massive Sands	12-Jan-14	Gas Cond.
908	Bhit South	1	ENI	17-Nov-14	Sindh		9,865		20-Jan-15	Plugged & Abd.
909	Kamil	1	UEP	01-Dec-14	Sindh		13,510	Sembar	04-Feb-15	Temp. Suspnd.
910	Dhok Sultan	1	PPL	25-Dec-14	Punjab		17,031			Drilling
911	Kup	1	OGDCL	25-Dec-14	Balochistan		8,271			Drilling
912	Limu	1	UEPL	04-Jan-15	Sindh		9,482			Gas
913	Kalabagh	1A	MPCL	10-Jan-15	Punjab		9,852			Drilling
914	Loti Deep	1	OGDCL	14-Jan-15	Balochistan		12,096			Drilling
915	Saman	1	UEPL	24-Jan-15	Sindh		13,284	Lower Basal Sand	23-Feb-15	Gas Cond.
916	Jan	1	UEPL	27-Jan-15	Sindh		5,679	S.B. Badin Sand	05-Feb-15	Oil
917	Korai Noth	1	UEPL	03-Feb-15	Sindh		9,829	Lower Basal Sand	25-Feb-15	Testing
918	Kotri North	X1	PPL	03-Feb-15	Sindh		11,975			Temp. Suspnd.
919	Sabir	1	UEPL	09-Feb-15	Sindh		11,302			Testing
920	Nasr	X1	PPL	17-Feb-15	Sindh		11,549			Testing
921	Halini Deep	1	MPCL	18-Feb-15	Punjab		15,961			Drilling
922	Sajan	1	UEPL	22-Feb-15	Sindh		13,904	Lower Basal Sand	04-Apr-15	Gas
923	Arbi Pir	1	UEPL	01-Mar-15	Sindh		5,659	Sand Below Badin Sand	09-Mar-15	Temp. Suspnd.
924	Shadab	X1	PPL	05-Mar-15	Sindh		4,236		18-Mar-15	Plugged & Abd.
925	Shurqamar	1	OGDCL	07-Mar-15	KPK		11,654			Drilling
926	Sinjhor West	1	OGDCL	30-Mar-15	Sindh		12,697			Suspended
927	Kohar	1	OMV Maurice	10-Apr-15	Sindh		11,467	A interval	12-May-15	Plugged & Abd.
928	Tharo	1	UEPL	10-Apr-15	Sindh		9,416	Lower Shale	26-Apr-15	Gas
929	Shikanwala	1	OGDCL	18-Apr-15	Punjab		2,562	Nagri	08-May-15	Temp. Suspnd.
930	Kabir	X1	PPL	23-Apr-15	Sindh		13,189			Drilling
931	Ismail	1	OGDCL	29-Apr-15	Punjab		2,707	Pirkoh Limestone	14-May-15	Plugged & Abd.
932	Piaro Deep Basal	1	UEPL	07-May-15	Sindh		8,930			Gas
933	Shawa	1	OGDCL	17-May-15	KPK		8,383			Drilling
934	Jhim	1	KPBV	20-May-15	Sindh		11,532			Testing
935	Tolanj South	1	MOL	21-May-15	KPK		8,858			Drilling
936	Fazl	X1	PPL	29-May-15	Sindh		12,441			Drilling
937	Tando Allah Yar East	1	OGDCL	07-Jun-15	Sindh		7,218			Drilling
938	Makori Deep	1	MOL	22-Jun-15	KPK		5,528			Drilling
939	Nooriabad	X1	PPL	01-Jul-15	Sindh		6,644			Plugged & Abd.
940	Malkani	1	UEP	09-Jul-15	Sindh		13,100			Temp. Suspnd.
941	Kumbh	1	UEP	18-Aug-15	Sindh		10,440		21-Sep-15	Gas Cond.
942	Latif South	1	OMV	25-Aug-15	Sindh		11,352		14-Sep-15	Gas
943	Bachani	1	OGDCL	02-Sep-15	Sindh		6,847		24-Oct-15	Plugged & Abd.
944	Bitrisim West	1	OGDCL	09-Sep-15	Sindh		4,098		23-Oct-15	Plugged & Abd.
945	Tolanj West	1	MOL	19-Sep-15	KPK		16,211		21-Jul-16	Gas
946	Hatim	X1	PPL	08-Oct-15	Sindh		12,467		15-Sep-15	Gas
947	Kundan	1	KPBV	09-Oct-15	Sindh		13,340			Plugged & Abd.
948	Malukpur	1	UEP	07-Nov-15	Sindh		10,676			Plugged & Abd.
949	Lakki	X1	PPL	11-Nov-15	KPK		9,416			Plugged & Abd.
950	Bhanoki	1	UEP	16-Nov-15	Sindh		13,911			Gas
951	Bitrisim West	1A	OGDCL	05-Dec-15	Sindh		13,812		25-Jun-16	Gas Cond.
952	Mor	1	UEP	05-Dec-15	Sindh		5,640			Oil
953	Wasayo	1	UEP	19-Dec-15	Sindh		5,830			Gas
954	Hadi	X1	PPL	25-Dec-15	Sindh		4,245		16-Jan-16	Plugged & Abd.
955	Limu North	1	UEP	30-Dec-15	Sindh		10,098			Gas
956	Jabal	1	UEP	07-Jan-16	Sindh		4,846			Temp. Suspnd.
957	Aminah	1	PEL	06-Jan-16	Sindh		7,402		14-Feb-16	Gas
958	Hassu	1	UEP	21-Jan-16	Sindh		13,780			Temp. Suspnd.
959	Kotri North	X1	PPL	10-Feb-16	Sindh		12,769			Gas
960	Bashar	X1	PPL	28-Feb-16	Sindh		12,697			Gas
961	Gul	1	UEP	31-Jan-16	Sindh		15,427			Temp. Suspnd.
962	Hadi	X-1A	PPL	05-Feb-16	Sindh		13,189		29-Jun-16	Gas
963	Khetwaro	1	MPCL	15-Feb-16	Sindh		3,084		29-Feb-16	Plugged & Abd.
964	Thal West	1	OGDCL	21-Feb-16	Sindh		13,071		25-Jun-16	Gas
965	Bhambro	1	UEP	27-Feb-15	Sindh		12,152			Temp. Suspnd.

Note: Shaded entries indicate discoveries.

Contd./...

OIL & GAS EXPLORATORY WELLS (Contd...)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
966	Pirkoh Deep	1	OGDCL	20-Mar-16	Balochistan		12,451			Drilling
967	Limu East	1	UEP	21-Mar-16	Sindh		9,324			Gas
968	Ayesha North	1	PEL	25-Mar-16	Sindh		9,252		29-May-16	Gas Cond.
969	Barkat Wala	1	OGDCL	11-Apr-16	Punjab		8,038		27-Jun-16	Plugged & Abd.
970	Daru Deep	1	OGDCL	14-Apr-16	Sindh		12,615			Temp. Suspnd.
971	Mithri	1	OGDCL	22-Apr-16	Sindh		13,944			Gas
972	Sadiqabad	X1	PPL	22-Apr-16	Punjab		3,314		06-May-16	Plugged & Abd.
973	Malir	X1	PPL	30-Apr-16	Sindh		9,843		23-Jun-16	Plugged & Abd.
974	Sujawal Deep	1	MPCL	07-May-16	Sindh		13,566			Plugged & Abd.
975	Miriwah East	X1	PPL	08-May-16	Balochistan		11,453			Plugged & Abd.
976	Lamwari	1	OMV	10-May-16	Sindh		11,450			Plugged & Abd.
977	Chaman	1	UEP	11-May-16	Sindh		10,682			Testing
978	Sadiqabad	X2	PPL	27-May-16	Punjab		3,406		09-Jun-16	Plugged & Abd.
979	Taban	X1	PPL	29-May-16	Sindh		12,497			Plugged & Abd.
980	Nodani	1	UEP	31-May-16	Sindh		7,674			Temp. Suspnd.
981	Rawat	1	UEP	25-Jun-16	Sindh		11,640			Oil
982	Dhodak Rubby	X1	OGDCL	29-Jun-16	Punjab		2,835			Plugged & Abd.
983	Chhutto	1	OGDCL	30-Jun-16	Sindh		12,533			Temp. Suspnd.
984	Khamiso	1	OGDCL	30-Jun-16	Sindh		2,470			Gas Cond.
985	Makrani	1	UEP	13-Jul-17	Sindh		12,493		12-Aug-16	Gas Cond.
986	Gundanwari	1	OGDCL	25-Jul-16	Sindh		12,303		07-Nov-16	Gas Cond.
987	Shahbaz	1	MPCL	26-Jul-16	Sindh		3,871		02-Sep-16	Gas
988	Kotri	X2	PPL	31-Jul-16	Sindh		13,320		28-Sep-16	Plugged & Abd.
989	Jhandial	1	POL	22-Aug-16	Punjab		18,501			Testing
990	Dang	1	UEP	10-Sep-16	Sindh		9,459		07-Oct-16	Oil
991	Mohib	1	UEP	05-Nov-16	Sindh		13,570		28-Dec-16	Gas
992	Mazrani Deep	1	PPL	03-Dec-16	Sindh		11,319		11-Mar-17	Plugged & Abd.
993	Ranipur	1	OGDCL	23-Dec-16	Sindh		15,069			Drilling
994	Samar	X1	PPL	26-Dec-16	Sindh		13,304		18-Feb-17	Plugged & Abd.
995	Shaheen	1	MPCL	05-Jan-17	Sindh		3,855		12-Feb-17	Gas
996	Sadar	1	UEP	08-Jan-17	Sindh		4,278		18-Jan-17	Temp. Suspnd.
997	Ali North	1	UEP	12-Jan-17	Sindh		12,762		30-May-17	Temp. Suspnd.
998	Khanan	1	OMV	01-Feb-17	Sindh		11,286		04-Mar-17	Gas
999	Narbat	1	UEP	03-Feb-17	Sindh		7,785		17-Feb-17	Temp. Suspnd.
1000	Kharan	X1	PPL	05-Mar-17	Balochistan		15,584		16-Jun-17	Plugged & Abd.
1001	Rahim South	1	UEP	11-Feb-17	Sindh		10,938		06-Mar-17	Temp. Suspnd.
1002	Aqeeq	1	MPCL	09-Mar-17	Sindh		7,612		29-Apr-17	Gas Cond.
1003	Zafir	X1	PPL	14-Mar-17	Sindh		12,887		25-Apr-17	Gas Cond.
1004	Chabaro	1	OGDCL	17-Mar-17	Sindh		12,054		11-Jun-17	Gas Cond.
1005	Kacha Khel	1	OGDCL	20-Mar-17	Sindh		9,022			Drilling
1006	Kalat	X1	PPL	15-Apr-17	Balochistan		10,666			Drilling
1007	Khadi	1	UEP	24-Apr-17	Sindh		5,778		05-May-17	Temp. Suspnd.
1008	Bhambhra	1	OGDCL	26-Apr-17	Sindh		13,199			Gas
1009	Tolanj East	1	MOL	27-Apr-17	KPK		6,404			Drilling
1010	Manchar	X1	PPL	16-May-17	Sindh		9,409			Drilling
1011	Bago	1	UEP	24-May-17	Sindh		13,081			Drilling
1012	Dhok Hussain	1	OGDCL	24-May-17	Sindh		8,028			Drilling
1013	Zainab	X1	PEL	03-Jun-17	KPK		8,858			Gas Cond.
1014	Rawat North	1	UEP	10-Jun-17	Sindh		11,749			Drilling
1015	Ghunghro Deep	1	UEP	12-Jun-17	Sindh		11,234			Drilling
1016	Resham West	1	OGDCL	24-Jun-17	Sindh		6,650			Drilling
1017	T. Allah Yar SW	1	OGDCL	25-Jun-17	Sindh		7,218			Drilling
1018	Zarbab	X1	PPL	27-Jun-17	Sindh		13,606			Drilling
1019	Khanjar	1	OGDCL	29-Jun-17	Punjab		4,915			Drilling
1020	Adhi South	X1	PPL	30-Jun-17	Punjab		2,313			Drilling
1021	Ali	2	UEPL	31-Oct-15	Sindh		12,769		01-Jun-17	Gas

Note: Shaded entries indicate discoveries.

Contd./...

OIL & GAS EXPLORATORY WELLS (Contd...)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
1022	Tipu	1	MPCL	05-Jul-17	Sindh		12,913		22-Oct-17	Gas
1023	Oderolal	1	UEP	28-Jul-17	Sindh		13,091		13-Sep-17	Gas
1024	Mohri	1	UEP	10-Aug-17	Sindh		9,849		04-Oct-17	Gas
1025	Babarki	1	UEP	02-Sep-17	Sindh		9,642		03-Oct-17	Gas
1026	Hub	X1	PPL	09-Sep-17	Balochistan		14,944			Testing
1027	Juma	1	UEP	24-Sep-17	Sindh		12,687		06-Nov-17	Temp. Suspnd.
1028	Hakro	1	UEP	13-Oct-17	Sindh		10,928		26-Nov-17	Gas
1029	Joyamir Deep	1	POL	14-Oct-17	Punjab		8,780			Testing
1030	Qadirwali	1	OGDCL	22-Oct-17	Sindh		9,678		07-Dec-17	Plugged & Abd.
1031	Nausherwani	X1	PPL	31-Oct-17	Balochistan		15,689		23-Apr-17	Plugged & Abd.
1032	Khaur North	1	POL	10-Nov-17	Punjab		14,587			Testing
1033	Shawa	X1	OGDCL	22-Nov-17	KPK		15,069			Drilling
1034	Atiabab	1	UEP	29-Nov-17	Sindh		14,239		27-Jan-18	Temp. Suspnd.
1035	Tharo West	1	UEP	03-Dec-17	Sindh		9,767		04-Jan-18	Gas
1036	Urs	1	OGDCL	01-Dec-17	Sindh		12,500		13-Apr-18	Temp. Suspnd.
1037	Mamikhel Deep	1	MOL	16-Dec-17	KPK		14,649			Drilling
1038	Dharian	1	MPCL	21-Dec-17	Punjab		14,957			Drilling
1039	Ganjo Takkar		OGDCL	22-Dec-17	Sindh		7,913		22-Jan-18	Plugged & Abd.
1040	Sukhi	1	UEP	25-Dec-17	Sindh		5,751		11-Jan-18	Oil
1041	Lundi	1	ENI	26-Dec-17	Sindh		7,415		14-Jan-18	Plugged & Abd.
1042	Chand	1	UEP	15-Jan-18	Sindh		10,453		28-Feb-18	Temp. Suspnd.
1043	Muqim	1	UEP	18-Jan-18	Sindh		14,186			Testing
1044	Mubarak South	1	UEP	24-Jan-18	Sindh		13,648			Testing
1045	Umair	1	OGDCL	25-Jan-18	Sindh		2,575		01-Mar-18	Gas
1046	Misrial	X1	PPL	01-Feb-18	Punjab		16,250			Drilling
1047	Roshan	1	POGC	09-Mar-18	Sindh		11,155			Drilling
1048	Sufi	1	MPCL	16-Mar-18	Sindh		7,710		12-Apr-18	Plugged & Abd.
1049	Ayub	X1	PPL	24-Mar-18	Balochistan		8,858		18-Jun-18	Plugged & Abd.
1050	Nur West	1	OGDCL	30-Mar-18	Sindh		9,760			Testing
1051	Sheikhan Butta	1	OGDCL	01-Apr-18	Punjab		10,827			Plugged & Abd.
1052	Rajab	X1	PPL	03-Apr-18	Sindh		13,419		28-May-18	Plugged & Suspnd.
1053	Chak 25	1	OGDCL	30-Apr-18	Sindh		7,336			Drilling
1054	Roshnai	1	UEP	07-May-18	Sindh		6,870		22-May-18	Gas
1055	Badeel	X1	PPL	16-May-18	Sindh		11,870			Drilling
1056	Zin Deep	2	OGDCL	20-May-18	Balochistan		1,362			Drilling
1057	Benari	X1	PPL	22-May-18	Sindh		7,605			Drilling
1058	Bolan East	1	MPCL	22-May-18	Balochistan		4,252			Testing
1059	Talagang	X1	PPL	24-May-18	Punjab		7,740			Drilling
1060	Nusrat	X1	PPL	31-May-18	Sindh		8,117			Drilling
1061	Guni	1	UEP	03-Jun-18	Sindh		8,753			Drilling
1062	Hayat	1	UEP	07-Jun-18	Sindh		8,963			Drilling
1063	Yasar	X1	PPL	22-Jun-18	Sindh		2,638			Drilling
1064	Qamar	X1	PPL	28-Jun-18	Sindh		1,617			Drilling
1065	Wassan	1	OGDCL	28-Jun-18	Sindh		223			Drilling
1066	Soghri	X3	OGDCL	30-Jun-18	Punjab		79			Drilling
1067	Warar	1	UEPL	10-Jul-18	Sindh		9,705		11-Aug-18	Gas
1068	Mitha	1	OMV	12-Jul-18	Sindh		11,844		16-Sep-18	Gas
1069	Nooh	X1	PPL	12-Aug-18	Balochistan		15,738			Drilling
1070	Gulsher	1	UEP	17-Aug-18	Sindh		8,228		15-Sep-18	Oil
1071	Bukhari North	1	UEP	18-Aug-18	Sindh		9,682		01-Oct-18	Gas
1072	Moroja	1	UEP	28-Aug-18	Sindh		13,258		18-Oct-18	Gas
1073	Hadaf	X1	PPL	29-Aug-18	Sindh		12,139		16-Dec-18	Gas Cond.
1074	Gormani	1	UEP	12-Sep-18	Sindh		10,184		16-Oct-18	Gas
1075	Khadi	2	UEP	04-Oct-18	Sindh		5,778		24-Oct-18	Temp. Suspnd.
1076	Garhi	X2	OGDCL	19-Oct-18	Punjab		14,721			Drilling
1077	Unarpur	1	UEP	02-Nov-18	Sindh		12,920		14-Feb-19	Gas
1078	Sukhi South	1	UEP	04-Nov-18	Sindh		6,516		25-Nov-18	Oil
1079	Bela West	X1	PPL	26-Nov-18	Balochistan		12,966			Drilling
1080	Lakhman	1	UEP	13-Dec-18	Sindh		10,240		10-Jan-19	Temp. Suspnd.
1081	Siab	1	OGDCL	21-Dec-18	KPK		9,081			Drilling
1082	Qadirpur Deep	X1	OGDCL	23-Dec-18	Sindh		4,770		24-Apr-19	Plugged & Abd.
1083	Ghunghro East	1	UEP	24-Dec-18	Sindh		5,102		05-Jan-19	Temp. Suspnd.
1084	Kekra	1	ENI	13-Jan-19	Offshore		18,678			Plugged & Abd.
1085	Mangrio	1	OGDCL	21-Jan-19	Sindh		8,780			Gas Cond.
1086	Chang	1	UEP	03-Feb-19	Sindh		8,576		25-Feb-19	Plugged & Abd.
1087	Chand South	1	UEP	10-Feb-19	Sindh		9,393		26-Mar-19	Temp. Suspnd.
1088	Rawal	1	UEP	14-Feb-19	Sindh		10,020		16-Mar-19	Gas
1089	Baudero	1	UEP	06-Mar-19	Sindh		13,071			Gas
1090	Parwaaz	1	MPCL	09-Mar-19	Sindh		4,058			Testing
1091	Paharpur	X1	KPBV	12-Mar-19	KPK		9,843			Plugged & Abd.
1092	Pandhi	1	OGDCL	13-Mar-19	Sindh		11,683			Drilling
1093	Ramdiani	1	UEP	19-Mar-19	Sindh		10,633			Testing
1094	Togh	1	OGDCL	31-Mar-19	KPK		9,793			Drilling

Note: Shaded entries indicate discoveries.

Contd./...

OIL & GAS EXPLORATORY WELLS (Contd...)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
1095	Sukan	1	UEP	01-Apr-19	Sindh		9,436			Testing
1096	Rahib	1	UEP	29-Apr-19	Sindh		12,073			Drilling
1097	Miraj	1	MPCL	04-May-19	Punjab		8,159			Drilling
1098	Jani	1	UEP	21-May-19	Sindh		10,381			Plugged & Abd.
1099	Pirano	1	OGDCL	24-May-19	Sindh		10,174			Drilling
1100	Dhamach	1	OGDCL	09-Jun-19	Sindh		3,839			Drilling
1101	Malhan	1	UEP	25-Jun-19	Sindh		2,037			Drilling
1102	Margand	X1	PPL	30-Jun-19	Balochistan		66			Drilling

Note: Shaded entries indicate discoveries.

* EPT: Extended Production Testing

Source: DGPC.

Figure 7.1
EXPLORATORY AND DEVELOPMENT WELLS DRILLED

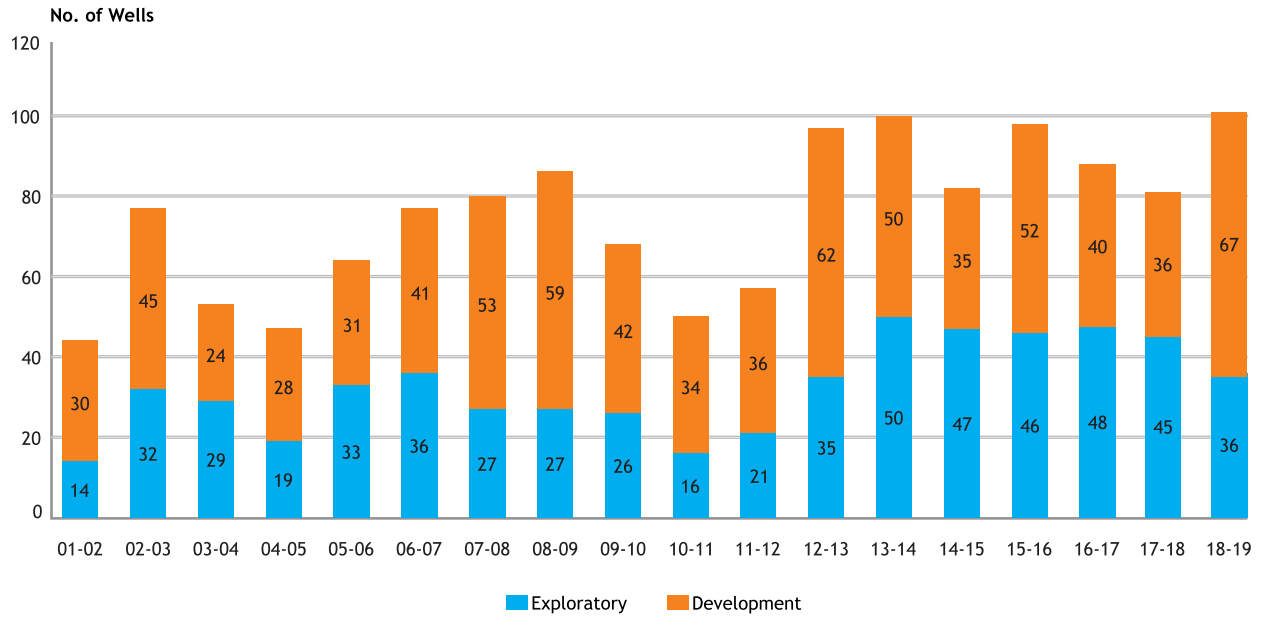


Figure 7.2

OIL & GAS EXPLORATION

As on July 1, 2019

Exploratory Wells	1102
Development Wells	1451
Sedimentary Area:	827,268 sq km
Expl. Drilling Density	One well per 810 sq km
Discoveries:	393
- Oil	98
- Gas/condensate	295
Overall Success Rate:	1 : 2.80

Appendix: 7.2

OIL & GAS APPRAISAL/DEVELOPMENT WELLS DRILLED IN PAKISTAN

(FIELD-WISE IN ALPHABETICAL ORDER)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
1	Aassu Deep	1	UEPL	12-Feb-14	Sindh		8,146			Oil
2	Aassu	2	UEPL	23-Jan-14	Sindh		5,098	Sand Below Badin	03-Feb-14	Oil
3	Aassu	3	UEPL	09-Jan-14	Sindh		5,049	Upper Shale	28-Jan-14	Oil
4	Aassu	4	UEPL	06-Feb-14	Sindh		5,095	Upper Shale	15-Feb-14	Oil
5	Aassu	5	UEPL	21-May-14	Sindh		5,089		03-Jun-14	Oil
6	Adhi	6	PPL	01-Sep-79	Punjab	1726	5,036	Murree	27-Feb-80	Abandoned
7	Adhi	7	PPL	30-Mar-81	Punjab	1770	9,245	Khewra S. st.	30-Aug-81	Oil
8	Adhi	8	PPL	14-Dec-81	Punjab	1730	5,078	Murree	22-Feb-82	Abandoned
9	Adhi	9	PPL	24-Jan-83	Punjab	1857	9,514	Salt Range	02-Mar-84	Oil
10	Adhi	10	PPL	23-May-88	Punjab	1863	9,613	Khewra S. st.	28-Dec-88	Oil
11	Adhi	11	PPL	04-Feb-89	Punjab	1747	9,452	Khewra S. st.	14-Sep-89	Oil
12	Adhi	12	PPL	07-Aug-96	Punjab		10,305	Khewra S. st.	29-Mar-97	Gas/Condensate
13	Adhi	13	PPL	14-Aug-01	Punjab		8,599	Khewra S. st.		Oil/Gas
14	Adhi	14	PPL	21-Aug-02	Punjab		11,155	Khewra S. st.		Oil
15	Adhi	15	PPL	01-Aug-03	Punjab		8,376	Khewra S. st.	30-Mar-04	Gas/Cond.
16	Adhi	16	PPL	11-Jun-04	Punjab		9,229			Gas/Cond.
17	Adhi	17	PPL	28-Mar-05	Punjab	1752	7,461	Sakessar	16-Sep-05	Oil & Gas
18	Adhi	18	PPL	03-Jan-06	Punjab		9,331	Salt Range		Oil/Gas
19	Adhi	19	PPL	03-Nov-12	Punjab		8,698			-
20	Adhi	20	PPL	09-Nov-13	Punjab		10,118			Gas Cond.
21	Adhi	21	PPL	18-Nov-13	Punjab		10,171			Gas Cond.
22	Adhi	22	PPL	24-Jul-14	Punjab		9,104			Gas Cond.
23	Adhi	23	PPL	27-Feb-15	Punjab		7,933			Drilling
24	Adhi	24	PPL	22-Oct-14	Punjab		10,610			Drilling
25	Adhi	25	PPL	14-Oct-15	Punjab		10,121		05-Apr-16	Gas Cond.
26	Adhi	27	PPL	30-Apr-16	Punjab		10,217			Gas Cond.
27	Adhi	26	PPL	04-Jul-16	Punjab		11,522			Gas Cond.
28	Adhi	28	PPL	17-Nov-16	Punjab		9,298			Gas Cond.
29	Adhi	29	PPL	24-Mar-17	Punjab		11,467			Testing
30	Adhi	30	PPL	28-May-17	Punjab		8,248			Drilling
31	Adhi	31	PPL	31-Mar-18	Punjab		11,056		08-Jun-18	Gas Cond.
32	Adhi	32	PPL	23-Jun-18	Punjab		2,864			Drilling
33	Adhi	33	PPL	30-Jun-19	Punjab		52			Drilling
34	Adhi	34	PPL	27-Jun-19	Punjab		377			Drilling
35	Adhi South	4	PPL	28-Jun-19	Punjab		479			Drilling
36	Ahmed ST	1	BP	22-Feb-10	Sindh		13,523	Lower Goru	12-Mar-10	Gas
37	Akri North	2	UTP	07-Nov-89	Sindh	37	5,950	Lower Goru	25-Nov-89	Oil
38	Akri North	3	UTP	12-Mar-90	Sindh	36	6,500	Lower Goru	24-Mar-90	Abandoned
39	Akri North	4	UTP	02-Apr-00	Sindh	37	5,797	Lower Goru	14-Apr-00	Oil & Gas
40	Akri North	5	UTP	14-Mar-01	Sindh	38	5,853	Lower Goru	23-Mar-01	Oil
41	Akri North	6	UTP	30-Mar-01	Sindh	38	5,951	Lower Goru	07-Apr-01	Oil
42	Akri North	7	UEPL	01-May-12	Sindh		5,932		12-May-12	Oil
43	Akri North	8	UEPL	01-Apr-14	Sindh		8,199	Lower Goru	10-May-14	Temp. Suspnd.
44	Ali	3	UEPL	11-Aug-17	Sindh		12,103		15-Oct-17	Gas
45	Ali St.	1	BP	04-Sep-09	Sindh		11,000	Lower Goru	08-Oct-09	Oil & Gas
46	Azadi	1	MPCL	30-Sep-17	Sindh		9,826		30-Nov-17	Gas
47	Bachal	2	UTP	01-Dec-94	Sindh		4,954	Lower Goru	10-Dec-94	Abandoned
48	Bachal	3	UEPL	17-Sep-13	Sindh		5,009	Lower Goru	26-Sep-13	Oil & Gas
49	Badar	2	OGDCL	17-Apr-14	Sindh		4,741		30-May-14	Gas
50	Badhra	3	Lasmo	04-Feb-03	Sindh		4,134	Pab		Plugged & Abd.
51	Badhra-B North Dir	2	ENI	14-May-13	Sindh		4,236			-
52	Badhra Dir	6	ENI	01-Sep-13	Sindh		9,012	Parh	18-Nov-13	Gas
53	Badhra Dir	7	ENI	12-Nov-18	Sindh		7,769		11-Jan-19	Gas
54	Badhra Dir	8	ENI	04-Jan-14	Sindh		8,202		23-Feb-14	Plugged & Abd.
55	Badhra	9	ENI	10-Aug-14	Sindh		7,283	Mughal Kot	06-Oct-14	Gas
56	Badhra Dir	10	ENI	03-Jul-14	Sindh		8,809	Pab	04-Nov-14	Gas
57	Badhra	11	ENI	12-Mar-15	Sindh		7,792			Gas
58	Badhra	13	ENI	02-Mar-16	Sindh		6,175			Plugged & Abd.

Note: Shaded area indicate wells drilled in current year

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APPRAISAL/DEVELOPMENT WELLS (Contd.)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
59	Badhra South West	1	ENI	05-Mar-18	Sindh		6,598		17-Apr-18	Plugged & Abd.
60	Bado Jabal Dir	A	ENI	13-Nov-09	Sindh		8,156			Suspended
61	Bagla	2	OGDCL	06-Jun-08	Sindh		8,701	Lower Goru		Gas/Cond.
62	Bago	2	UEPL	17-Nov-17	Sindh		12,716		22-Jan-18	Gas
63	Bahu	2	OGDCL	28-Dec-06	Punjab		6,316	Kingriali	07-Mar-07	Gas
64	Bahu	3	OGDCL	15-Apr-07	Punjab		6,332	Kingriali		Temp. Suspended
65	Bahu	4	OGDCL	13-Jun-08	Punjab		5,906			Gas
66	Bahu	5	OGDCL	30-Sep-12	Punjab		5,495	Chichali	19-Nov-12	Gas
67	Bahu	6	OGDCL	02-Dec-12	Punjab		5,906		04-Feb-13	Gas
68	Bahu	7	OGDCL	25-Dec-12	Punjab		5,381		11-Feb-13	Gas
69	Bahu	8	OGDCL	22-Feb-13	Punjab		5,348		04-Mar-13	Gas
70	Balkassar	2A	POL	14-Dec-46	Punjab	1742	4,643	Chorgali/Sakessar	15-Feb-47	Abandoned
71	Balkassar	3A	POL	30-Mar-47	Punjab	1726	8,219	Chorgali/Sakessar	01-May-48	Oil
72	Balkassar	4A	AOC	20-Sep-47	Punjab	1745	8,711	Lockhart	01-May-48	Oil
73	Balkassar	2B	BOC	02-Feb-48	Punjab	1745	8,214	Sakessar	02-May-49	Oil
74	Balkassar	5A	AOC	14-Sep-48	Punjab	1742	8,304	Sakessar	02-May-49	Oil
75	Balkassar	3B	BOC	09-Jan-49	Punjab	1761	8,939	Sardhai	10-Jan-50	Abandoned
76	Balkassar	6A	AOC	02-Apr-49	Punjab	1762	8,219	Sakessar	03-May-50	Oil
77	Balkassar	4B	BOC	27-Jan-50	Punjab	1716	8,610	Hangu	30-Aug-51	Oil
78	Balkassar	7A	AOC	10-Jun-50	Punjab	1749	8,275	Sakessar	07-Mar-51	Oil
79	Balkassar B	7A	POL	27-Jul-15	Punjab		8,514			Oil
80	Balkassar	6	PPL	23-May-51	Punjab	1781	8,430	Sakessar	25-Jan-52	Abandoned
81	Balkassar	7	PPL	01-Aug-52	Punjab	1719	8,441	Patala	17-Jan-53	Oil
82	Balkassar	8	PPL	17-Mar-53	Punjab	1696	8,199	Sakessar	07-Apr-55	Abandoned
83	Balkassar	9	PPL	14-Jul-53	Punjab	1715	8,750	Lockhart	14-Feb-54	Abandoned
84	Balkassar	5	PPL	15-Nov-53	Punjab	1744	8,807	Lockhart	21-Apr-54	Abandoned
85	Balkassar	10	PPL	10-May-54	Punjab	1723	8,429	Sakessar	25-Aug-55	Oil
86	Balkassar	2	OXY	19-Aug-93	Punjab		8,199	Chorgali	18-Oct-93	Abandoned
87	Balkassar POL	1	POL	16-Dec-04	Punjab	1823	8,899			Oil
88	Bari	3	UTP	05-Jul-93	Sindh		2,975	Lower Goru	13-Jul-93	Oil
89	Bari	4	UTP	18-Jan-94	Sindh		2,661	Lower Goru	29-Jan-94	Abandoned
90	Bari	5	UTP	25-Nov-96	Sindh		2,474	Lower Goru	30-Nov-96	Abandoned
91	Bari	6	UEPL	11-Nov-17	Sindh		3,027		19-Nov-17	Oil
92	Bari	7	UEPL	29-Nov-17	Sindh		3,664		13-Dec-17	Oil
93	Bari	8	UEPL	16-Dec-17	Sindh		3,001		23-Dec-17	Oil
94	Bari	WIW-9	UEPL	20-Aug-18	Sindh		1,630		09-Oct-18	Completed
95	Bari	10	UEPL	06-Dec-18	Sindh		3,003		19-Dec-18	Oil
96	Bari	11	UEPL	05-Dec-18	Sindh		2,987		15-Dec-18	Oil
97	Bhal Saydan	2	OGDC	08-Mar-90	Punjab	1641	15,098	Kuldana	31-May-90	Abandoned
98	Bhangali	2	OXY	04-Nov-89	Punjab	1777	12,805	Warcha	04-Mar-90	INJ
99	Bhangali	3	OPL	01-Feb-14	Punjab		9,057			Drilling
100	Bhatti	2	UTP	30-Jan-90	Sindh	45	6,245	Lower Goru	17-Feb-90	Oil/Gas
101	Bhatti	3	UTP	18-Sep-91	Sindh		8,550	Lower Goru	26-Oct-91	Gas
102	Bhatti	4	BP	16-Feb-02	Sindh	50	7,927	Lower Goru	07-Mar-02	Temp. Abandoned
103	Bhatti	5	BP	06-Aug-02	Sindh		5,755	Lower Goru	16-Aug-02	Suspended
104	Bhatti	6	BP	03-Oct-04	Sindh	47	6,168	Lower Goru		Gas
105	Bhit	3	Lasmo	10-Mar-98	Sindh		9,268	Mughalkot		Gas
106	Bhit	4	Lasmo	25-Jun-98	Sindh		6,611	Pab	22-Aug-98	Abandoned
107	Bhit	5	Lasmo	17-Nov-98	Sindh		6,480	Pab	02-Jan-99	Suspended
108	Bhit	7	Lasmo	10-Feb-02	Sindh	31	7,044	Pab	14-Mar-02	Gas
109	Bhit	8	Lasmo	08-Jun-02	Sindh		1,962			Plugged & Suspnd.
110	Bhit	1	Lasmo	03-Dec-01	Sindh	31	6,890	Pab	11-Jan-02	Completed
111	Bhit	9	Lasmo	12-Jul-02	Sindh		7,116	Pab		Gas
112	Bhit	12	Eni	24-Apr-06	Sindh		6,765		29-May-06	Suspended
113	Bhit	11	Eni	12-Oct-07	Sindh		7,103	Pab	20-Nov-07	Gas
114	Bhit	10	Eni	06-Dec-08	Sindh		6,677			Gas
115	Bhit	13	Eni	28-Jun-11	Sindh		82			Gas
116	Bhit	17	ENI	04-Nov-12	Sindh		6,542		07-Jan-13	Gas
117	Bhit Dir	14	ENI	30-Jan-13	Sindh		6,260		17-Apr-13	Gas
118	Bhit Dir	15	ENI	25-Apr-13	Sindh		9,124			-

Note: Shaded area indicate wells drilled in current year

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APPRAISAL/DEVELOPMENT WELLS (Contd.)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
119	Bhitai	2	MPCL	21-Feb-17	Sindh		3,839		22-Mar-17	Gas
120	Bhitai	3	MPCL	31-Mar-17	Sindh		3,898		08-May-17	Gas
121	Bhitai	5	MPCL	11-Dec-17	Sindh		3,871		11-Jan-18	Gas
122	Bijoro	2	UEPL	06-Apr-13	Sindh		9,201			Oil
123	Bijoro	3	UEPL	26-Aug-13	Sindh		0	Badin Shale	09-Sep-13	Oil
124	Bijoro	4	UEPL	16-Mar-18	Sindh		8,555		15-Apr-18	Oil
125	Bitrism West	2	OGDCL	21-Jun-17	Sindh		4,511			Drilling
126	Bobi	2	OGDC	26-Dec-88	Sindh	89	9,521	Lower Goru	14-Feb-89	Condensate
127	Bobi	3	OGDC	20-Jun-89	Sindh	90	9,567	Lower Goru	15-Aug-89	Condensate
128	Bobi	4	OGDC	27-Mar-92	Sindh	82	9,022	Lower Goru	05-Jun-92	Gas
129	Bobi	5	OGDC	05-Oct-93	Sindh		8,990	Lower Goru	20-Nov-93	Abandoned
130	Bobi	6	OGDC	03-Dec-94	Sindh		8,876	Lower Goru	24-Jan-95	Condensate
131	Bobi	7	OGDC	15-Mar-97	Sindh		9,022	Lower Goru	21-Jun-97	Abandoned
132	Bobi	8	OGDC	18-Jun-97	Sindh		8,891	Lower Goru		Suspended
133	Bobi	9	OGDCL	24-Aug-03	Sindh		8,747	Lower Goru	03-Oct-03	Gas/Cond.
134	Bobi	10	OGDCL	25-Dec-12	Sindh		10,751			Suspended
135	Bukhari	2	UTP	07-Jul-86	Sindh	59	6,450	Lower Goru	31-Jul-86	Gas
136	Bukhari	3	UTP	14-Jan-88	Sindh	58	6,558	Lower Goru	11-Feb-88	Gas
137	Bukhari	4	UTP	28-Aug-93	Sindh		6,550	Lower Goru	20-Sep-93	Gas
138	Bukhari Deep	2	BP	05-Oct-07	Sindh		10,312	Lower Goru	16-Nov-07	Gas
139	Bukhari Deep	3	BP	09-Nov-08	Sindh		8,417	Lower Goru	01-Dec-08	Gas
140	Bukhari Deep	4	BP	10-Apr-10	Sindh		8,399	Lower Goru	02-May-10	Gas
141	Bukhari Deep	5	BP	03-Apr-11	Sindh		8,704		10-May-11	Gas
142	Bukhari Deep	6	UEPL	16-Nov-15	Sindh		8,504			Gas
143	Bukhari Deep	7	UEPL	22-Feb-17	Sindh		8,691		16-Mar-17	Gas
144	Bukhari SWD	1	UTP	28-Feb-96	Sindh		1,631		07-Mar-96	INJ
145	Buzdar North	2	OGDC	27-Aug-15	Sindh		5,249			Plugged & Abd.
146	Buzdar S.Deep	2	UTP	29-May-97	Sindh		6,673	Lower Goru		Oil
147	Buzdar South	2	BP	07-Jan-08	Sindh		5,220	Lower Goru	21-Jan-08	Oil & Gas
148	Buzdar South	3	BP	21-Feb-10	Sindh		4,633	Lower Goru	01-Jan-10	Gas
149	Buzdar South	4	BP	09-Feb-11	Sindh		4,876			Plugged & Abd.
150	Buzdar South Deep	3	BP	13-May-04	Sindh		6,985	Lower Goru	26-May-04	Oil & Gas
151	Buzdar South Deep	4	BP	29-Mar-05	Sindh	79	7,451	Lower Goru	14-Apr-05	Oil & Gas
152	Buzdar South Deep	5	BP	11-Mar-09	Sindh		7,001	Lower Goru	22-Mar-09	Oil & Gas
153	Buzdar South Deep	6	BP	02-Dec-09	Sindh		6,751	Lower Goru	14-Dec-09	Oil
154	Buzdar South Deep	7	UEPL	29-Apr-13	Sindh		7,288			Oil/Gas
155	Buzdar South Deep	8	UEPL	01-Oct-14	Sindh		6,729	Lower Shale	02-Nov-14	Suspended
156	Buzdar South Deep	9	UEPL	23-Dec-18	Sindh		7,652		26-Jan-19	Oil & Gas
157	Buzdar South SWD	1	BP	08-Nov-05	Sindh		3,097			Completed
158	Chachar	2	Tullow	21-May-06	Sindh		4,806	SML	08-Jun-06	Gas
159	Chachar	3	Tullow	17-Jun-06	Sindh		4,974	SML	23-Jul-06	Gas
160	Chachar	4	PPL	15-Jul-11	Sindh		4,285	SML	01-Oct-11	Gas
161	Chak Naurang	2	OGDC	26-Sep-85	Punjab	1,811	7,310	Khewra S. St.	03-Apr-87	Oil
162	Chak Naurang	3	OGDC	09-Nov-87	Punjab	1,824	9,357	Khewra S. St.	03-May-88	Oil
163	Chak Naurang	4	OGDC	25-May-88	Punjab	1,857	9,137	Khewra S. St.	12-Nov-88	Oil
164	Chak Naurang	5	OGDCL	08-Jul-08	Punjab		3,091	Kamlial	15-Aug-08	Plugged & Abd.
165	Chak Naurang	5A	OGDCL	28-Nov-08	Punjab		8,665		15-Jun-09	Oil
166	Chak Naurang South	2	OGDCL	15-Sep-12	Punjab		10,545		26-May-13	Plugged & Abd.
167	Chak2	2	OGDCL	21-Mar-04	Sindh		11,220	Lower Goru		Gas/Cond.
168	Chak2	3	OGDCL	08-Nov-04	Sindh	117	10,499	Lower Goru		Temp. Suspnd.
169	Chak-5 Dim	2	OGDCL	21-Nov-13	Sindh		10,463	Sembar	22-Feb-14	Gas Cond.
170	Chak-5 Dim South	2	OGDC	18-Dec-96	Sindh		9,843	Lower Goru	20-Mar-97	Abandoned
171	Chak-63	3	OGDC	21-Mar-03	Sindh		11,368	Lower Goru		Oil & Gas
172	Chak-63	4	OGDCL	05-May-04	Sindh		11,647	Lower Goru		Gas/Cond.
173	Chanda	2	OGDCL	16-May-05	KPK		16,371	Kingriali	24-Apr-06	Oil & Gas
174	Chanda	3	OGDCL	29-Jun-07	KPK		14,925			Temp. Suspnd.
175	Chanda	4	OGDCL	11-Dec-16	KPK		16,457			Testing
176	Chanda	5	OGDCL	02-Nov-18	KPK		17,762			Drilling
177	Dabhi	2	UTP	05-Feb-85	Sindh	66	5,861	Lower Goru	01-Mar-85	Oil/Gas
178	Dabhi	3	UTP	01-Jul-85	Sindh	63	6,000	Lower Goru	22-Jul-85	Oil/Gas

Note: Shaded area indicate wells drilled in current year

Contd./...

APPRAISAL/DEVELOPMENT WELLS (Contd.)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
179	Dabhi	4	UTP	01-Aug-86	Sindh	63	5,840	Lower Goru	14-Aug-86	Oil/Gas
180	Dabhi	5	UTP	04-Jun-99	Sindh		5,804	Lower Goru	15-Jun-99	Oil
181	Dabhi	6	UTP	21-Jun-99	Sindh		5,801	Lower Goru	21-Jun-99	Oil
182	Dabhi	7	UTP	09-Sep-01	Sindh	69	5,801	Lower Goru	20-Jan-02	Oil
183	Dabhi North	2	UTP	30-Oct-98	Sindh		6,348	Lower Goru	17-Nov-98	Oil
184	Dabhi North	3	UTP	24-Dec-99	Sindh	71	6,183	Lower Goru	05-Jan-00	Oil
185	Dabhi North	4	UEPL	19-Feb-02	Sindh	71	6,270	Lower Goru	25-Feb-02	Suspended
186	Dabhi North	5	UEPL	22-Apr-18	Sindh		7,432		27-May-18	Oil
187	Dabhi South	2	UEPL	26-Aug-13	Sindh		5,888	Lower Goru	09-Jun-13	Oil & Gas
188	Dachrapur	3	OGDCL	30-Apr-16	Sindh		3,491			Gas
189	Dhani	2	UEPL	21-Nov-14	Sindh		7,703	Talhar Shale	21-Nov-14	Oil
190	Dakhni	2	OGDC	07-Oct-83	Punjab	1,052	14796	Nammal	12-Jun-84	Condensate
191	Dakhni	3	OGDC	09-Jul-84	Punjab	1,008	15,144	Lockhart	29-Mar-85	Condensate
192	Dakhni	4	OGDC	30-Apr-85	Punjab	948	15,092	Lockhart	17-Jan-86	Condensate
193	Dakhni	5	OGDC	10-Jun-86	Punjab	989	15,381	Lockhart	20-Jun-87	Condensate
194	Dakhni	6	OGDC	18-Oct-86	Punjab	1,079	15,795	Lockhart	07-Dec-87	Abandoned
195	Dakhni	7	OGDC	08-Dec-95	Punjab		2,717	Chinji	28-Mar-96	Abandoned
196	Dakhni	7-A	OGDC	26-Sep-96	Punjab		13,857	Lockhart	22-Aug-98	Abandoned
197	Dakhni	8	OGDCL	08-Mar-04	Punjab		14,993	Lockhart		Gas/Cond.
198	Dakhni	9	OGDCL	15-Dec-04	Punjab	1,019	14,764	Patala		Suspended
199	Dakhni	10	OGDCL	07-May-06	Punjab		15,676	Patala		Suspended
200	Dakhni	10-A	OGDCL	04-Apr-10	Punjab		15,453			Gas
201	Dakhni	11	OGDCL	17-Jul-08	Punjab		15,892			Gas/Cond.
202	Dakhni	12	OGDCL	08-Jan-10	Punjab		14,925			Temp. Suspnd.
203	Dakhni Deep	2	OGDCL	20-Jun-07	Punjab		15,727	Kingriali		Gas/Cond.
204	Dakhni Deep	3	OGDCL	24-Jun-07	Punjab		12,175	Murree		Plugged & Abd.
205	Dakhni Deep	3A	OGDCL	12-Nov-09	Punjab		4,446			Plugged & Abd.
206	Dakhni Deep	4	OGDCL	30-Jun-09	Punjab		16,207	Lockhart L. St.		Plugged & Abd.
207	Dakhni Deep	5	OGDCL	21-Jan-15	Punjab		16,539	Datta	30-Apr-15	Plugged & Abd.
208	Daru	2	OGDC	11-May-89	Sindh	181	8,661	Lower Goru	14-Aug-89	Condensate
209	Daru	3	OGDC	01-Sep-89	Sindh	65	8,435	Lower Goru	15-Dec-89	Condensate
210	Dewan	2	Rally	10-Apr-05	Punjab		8,661	Lower Goru		Gas
211	Dewan	3	Dewan	18-Jun-08	Punjab		12,283	Chiltan		Suspended
212	Dewan	5	Dewan	11-Mar-07	Punjab		1,631			Plugged & Abd.
213	Dewan	5A	Dewan	27-Aug-07	Punjab		10,843	Chiltan	18-Jan-08	Gas
214	Dewan Shallow	1	Dewan	10-Nov-08	Punjab		5,249	Pab Formation	27-Jan-08	Gas
215	Dhachrapur	2	OGDC	07-Feb-12	Sindh		11,434			-
216	Dhodak	2	OGDC	01-Apr-78	Punjab	1,716	9,846	Parh	30-Jun-79	Condensate
217	Dhodak	3	OGDC	18-May-79	Punjab	1,817	10,039	Parh L. st.	03-May-80	Condensate
218	Dhodak	4	OGDC	18-Nov-81	Punjab	1,986	8,167	Pab	04-Jan-83	Abandoned
219	Dhodak	5	OGDC	31-May-88	Punjab	1,694	8,015	Pab	24-Oct-88	Condensate
220	Dhodak	6	OGDC	23-Nov-88	Punjab	2,267	8,301	Pab	03-Apr-89	Condensate
221	Dhodak	7	OGDC	01-Jul-89	Punjab	2,133	8,212	Pab	06-Nov-89	Condensate
222	Dhodak	8	OGDC	22-Dec-91	Punjab	1,422	7,395	Pab	06-Apr-92	Condensate
223	Dhodak	9	OGDCL	29-Jun-04	Punjab		7,884	Lower Ranikot		Gas/Cond.
224	Dhodak	10	OGDCL	19-Oct-05	Punjab		7,303	Lower Ranikot	29-May-06	Plugged & Abd.
225	Dhodak	10A	OGDCL	30-Dec-06	Punjab		7,267	Lower Ranikot		Gas/Cond.
226	Dhodak Deep	2	OGDCL	14-Dec-08	Punjab		2,687	Rubby Limestone	04-Feb-09	Plugged & Abd.
227	Dhodak Deep	2A	OGDCL	26-Jun-10	Punjab		13,747			-
228	Dhulian	7	POL	21-Jan-37	Punjab	1,289	7,658		04-Nov-37	Oil
229	Dhulian	9	POL	01-Nov-37	Punjab	1,283	8,898	Lockhart	31-Oct-41	Oil
230	Dhulian	11	POL	11-Nov-37	Punjab	1,312	8,285	Ranikot	11-Jul-38	Oil
231	Dhulian	10	POL	28-Apr-38	Punjab	1,355	7,779		10-Jan-39	Abandoned
232	Dhulian	12	POL	10-Sep-38	Punjab	1,299	7,674	Lockhart	18-Jun-40	Oil
233	Dhulian	17	POL	14-Nov-38	Punjab	1,352	7,825	Lockhart	20-Jul-42	Oil
234	Dhulian	12	POL	10-Sep-38	Punjab	1299	7,674	Lockhart	18-Jun-40	Oil
235	Dhulian	17	POL	14-Nov-38	Punjab	1352	7,825	Lockhart	20-Jul-42	Oil
236	Dhulian	19	POL	10-Oct-39	Punjab	1342	8,170	Lockhart	04-Apr-40	Oil
237	Dhulian	16	POL	31-Jan-40	Punjab	1329	8,439	Ranikot	27-Jul-40	Oil
238	Dhulian	42	POL	26-Sep-61	Punjab	1355	9,613	Mianwali	01-Aug-62	Oil/Gas

Note: Shaded area indicate wells drilled in current year

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APPRAISAL/DEVELOPMENT WELLS (Contd.)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
239	Dhulian	43	POL	24-Jun-62	Punjab	1411	12,428	Salt Range	17-May-63	Oil/Gas
240	Dhulian	44	POL	06-Apr-64	Punjab	1299	9,576	Mianwali	17-May-64	Oil/Gas
241	Dhulian	45	POL	19-Oct-64	Punjab	1388	9,508	Mianwali	18-May-05	Oil/Gas
242	Dhulian	46	POL	12-Sep-65	Punjab	1345	9,655	Datta	12-Sep-65	Oil/Gas
243	Dhulian	8	POL	10-Oct-37	Punjab				20-Jul-38	Abandoned
244	Dhulian	18	POL	13-Apr-39	Punjab	1339	7,933	Lockhart	19-Jan-40	Abandoned
245	Dhulian	15	POL	09-Jul-39	Punjab	1312	7,753	Lockhart	06-Mar-40	Oil
246	Dhulian	14	POL	28-May-40	Punjab	1335	7,897	Lockhart	08-Sep-41	Oil
247	Dhulian	20	POL	04-Aug-40	Punjab	1348	7,796	Lockhart	15-Feb-41	Oil
248	Dhulian	21	POL	28-Dec-40	Punjab	1358		-	11-Nov-41	Abandoned
249	Dhulian	22	POL	22-Jan-41	Punjab	1355	7,812	Lockhart	11-Nov-41	Oil
250	Dhulian	23	POL	25-Jun-41	Punjab	1280	7,956	Lockhart	20-Sep-42	Abandoned
251	Dhulian	24	POL	04-Dec-41	Punjab	1289	8,262	Ranikot	21-Sep-42	Oil
252	Dhulian	25	POL	06-Sep-42	Punjab	1322	7,701	Lockhart	13-Apr-43	Oil
253	Dhulian	26	POL	09-Nov-42	Punjab	1312	7,756	Lockhart	10-Mar-43	Oil
254	Dhulian	27	POL	05-May-43	Punjab	1270	7,655	Lockhart	13-Jan-44	Abandoned
255	Dhulian	28	POL	31-Jul-43	Punjab	1365	7,966	Ranikot	01-Apr-44	Oil
256	Dhulian	29	POL	07-Feb-44	Punjab	1299	7,678	Lockhart	23-Oct-44	Oil
257	Dhulian	31	POL	02-Mar-44	Punjab	1355	8,465	-	05-Dec-44	Abandoned
258	Dhulian	30	POL	05-Jun-44	Punjab	1283	7,674	Lockhart	27-Jan-45	Oil
259	Dhulian	32	POL	20-Nov-44	Punjab	1306	7,655	Lockhart	09-Apr-45	Oil
260	Dhulian	33	POL	27-Dec-44	Punjab	1283		Lockhart	17-Oct-45	Oil
261	Dhulian	34	POL	29-Apr-45	Punjab	1345		Lockhart	05-Sep-46	Oil
262	Dhulian	35	POL	05-Sep-46	Punjab	1342		-	05-Sep-46	Abandoned
263	Dhulian	36	AOC	01-Jan-48	Punjab	1358	7,900	Lockhart	26-Mar-50	Oil
264	Dhulian	37	POL	06-Jun-53	Punjab	1358	9,229	Patala	13-Mar-55	Oil/Gas
265	Dhulian	1P	POL	22-May-56	Punjab	1388	9,944	Triassic	01-Nov-60	Abandoned
266	Dhulian	38	POL	31-Jan-58	Punjab	1303	8,961	Lockhart	01-May-59	Oil/Gas
267	Dhulian	39	POL	31-Mar-59	Punjab	1342	9,106	Datta	01-Jul-60	Oil/Gas
268	Dhulian	40	POL	19-May-59	Punjab	1273	2,993	Chinji	13-May-60	Abandoned
269	Dhulian	41	POL	23-May-60	Punjab	1270	9,330	Chhidru	01-Jul-60	Oil/Gas
270	Dhulian	2P	POL	25-Feb-61	Punjab	1306	9,731	Triassic	01-May-62	Oil/Gas
271	Dhulian	3P	POL	28-May-62	Punjab	1375	10,325	Triassic	01-Dec-62	Abandoned
272	Dhurnal	2	OXY	01-Jul-84	Punjab	1624	14,807	Warcha	26-Feb-85	Oil
273	Dhurnal	3	OXY	19-Mar-85	Punjab	1670	16,044	Salt Range	08-Nov-85	Oil
274	Dhurnal	4	OXY	09-Apr-86	Punjab	1631	15,299	Amb	27-Apr-85	INJ
275	Dhurnal	5	OXY	15-Nov-86	Punjab	1555	14,653	Amb	04-Jun-87	INJ
276	Dhurnal	6	OXY	08-Sep-87	Punjab	1661	13,774	Amb	10-May-88	Oil
277	Dhurnal	7	OXY	20-Sep-88	Punjab	1693	14,679	Amb	18-Feb-89	INJ
278	Domial	2	POL	22-Oct-10	Punjab		17,405		-	
279	Duphri	2	UTP	10-Sep-89	Sindh	46	3,046	Lower Goru	23-Sep-89	Gas
280	Duphri	4	BP	20-Oct-04	Sindh	45	7,520	Lower Goru		Gas
281	Duphri	3	BP	31-Jul-05	Sindh		2,799	Lower Goru	05-Aug-05	Oil
282	Duphri	5	BP	15-Feb-06	Sindh		2,858	Lower Goru	21-Feb-06	Gas
283	Duphri	6	BP	24-Mar-08	Sindh		2,956	Lower Goru	30-Mar-08	Oil
284	Duphri	7	BP	16-May-10	Sindh		2,799	Lower Goru	21-May-10	Oil
285	Duphri	8	UEPL	26-Apr-13	Sindh		2,900			Oil
286	Duphri SWD	1	BP	23-Sep-06	Sindh		1,585			Completed
287	Fateh Shah North	2	UEPL	27-Oct-13	Sindh		9,723	Badin Shale	17-Nov-13	Gas
288	Fimkassar	2	OGDC	07-Feb-90	Punjab	1762	10,089	Patala	13-Oct-90	Oil
289	Fimkassar	3	OGDC	26-Sep-94	Punjab		10,545	Nammal	19-May-95	INJ
290	Fimkassar	4	OGDCL	29-Jul-03	Punjab		11,319	Khewra S. St.		Plgd. & Abd.
291	Gharo	2	UEPL	14-Jul-12	Sindh		5,069	Lower Goru	06-Aug-12	Oil
292	Ghotana	2	OGDC	11-Sep-86	Sindh	79	7,300	Lower Goru	24-Nov-86	Oil
293	Ghotana	3	OGDCL	26-Dec-97	Sindh		6,972	Lower Goru	18-Feb-98	Abandoned
294	Ghungthro	2	UTP	29-Apr-89	Sindh	28	5,150	Lower Goru	14-May-89	Oil
295	Ghungthro	3	UTP	08-May-96	Sindh		4,872	Lower Goru	28-May-96	Oil
296	Ghungthro	4	UTP	21-Sep-00	Sindh	27	5,000	Lower Goru	28-Sep-00	Oil
297	Ghungthro	5	UTP	03-Jan-01	Sindh	27	4,977	Lower Goru	09-Jan-01	Oil
298	Ghungthro	6	UTP	01-Feb-01	Sindh	27	5,000	Lower Goru	11-Feb-01	Oil

Note: Shaded area indicate wells drilled in current year

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APPRAISAL/DEVELOPMENT WELLS (Contd.)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
299	Ghungthro	7	UTP	19-Feb-01	Sindh	27	5,203	Lower Goru	24-Feb-01	Oil
300	Ghungthro	SW-1	UTP	07-Nov-96	Sindh		2,054		19-Nov-96	Completed
301	Ghungthro	SW-2	BP	31-Dec-01	Sindh		2,359			Completed
302	Ghungthro	8	BP	05-Mar-05	Sindh	28	4,803	Lower Goru	10-Mar-05	Oil
303	Ghungthro	9	BP	29-Jul-07	Sindh		5,515	Lower Goru	07-Aug-08	Oil
304	Ghungthro SWD	3	BP	24-Apr-09	Sindh		2,247	Khadro	28-Apr-09	Completed
305	Ghungthro SWD	4	UEPL	30-Aug-12	Sindh		2,250		01-Sep-12	Completed
306	Golarchi	2	UTP	10-Mar-84	Sindh	59	6,505	Lower Goru	10-Apr-84	Gas
307	Golarchi	3	UTP	15-Mar-88	Sindh	45	11,593	Lower Goru	14-May-88	Gas
308	Golarchi	4	BP	15-Sep-04	Sindh	26	6,503	Lower Goru		Gas
309	Golarchi	5	BP	21-Jul-08	Sindh		5,496	Lower Goru	04-Aug-08	Gas
310	Golarchi Deep	1	BP	04-Jan-09	Sindh		11,203	Lower Goru	02-May-09	Gas
311	Gulsher	2	UEPL	19-May-19	Sindh		6,148			Plugged & Abd.
312	Haider Deep	2	UEPL	26-Sep-16	Sindh		14,026		26-Dec-16	Temp. Suspnd.
313	Hakeem Daho	2	OGDCL	04-Aug-04	Sindh	112	10,827	Lower Goru		Gas Condensate
314	Halipota	2	UTP	05-Apr-89	Sindh	66	6,570	Lower Goru	26-Apr-89	Oil/Gas
315	Halipota	3	BP	12-Oct-06	Sindh		6,604	Lower Goru	24-Dec-06	Oil/Gas
316	Halipota	4	UEPL	23-Mar-18	Sindh		5,845		09-Apr-18	Oil
317	Halipota	5	UEPL	25-Mar-17	Sindh		6,604		07-Apr-17	Oil
318	Halipota	WIW-6	UEPL	30-Jul-18	Sindh		6,104		10-Aug-18	Completed
319	Hamza X	2	PEL	25-Jan-04	Sindh		4,272	Ranikot		Gas/Sus
320	Hassan	2	PEL	01-Jan-05	Sindh	220	4,396	Mughal Kot	02-Mar-05	Gas
321	Hassan	3	PEL	18-Sep-07	Sindh		3,353	SML		Gas
322	Hassan	4	PEL	03-Apr-14	Sindh		3,543		21-Apr-14	Gas
323	Hayat	2	UEPL	12-Oct-18	Sindh		9,561		09-Nov-18	Gas Cond.
324	Hundi	2	OGDC	01-Jan-72	Sindh	943	5,285	Lower Ranikot	10-Apr-72	Gas
325	Hundi	3	OGDC	27-Nov-73	Sindh	938	5,259	Lower Ranikot	20-May-74	Gas
326	Hundi	4	OGDC	09-Dec-74	Sindh	1077	5,020	Lower Ranikot	15-Apr-75	Gas
327	Hundi North	1	OGDCL	27-Apr-10	Sindh		4,921	Lower Ranikot	02-May-10	Pludg. & Abd.
328	Jabo	2	UTP	21-Feb-00	Sindh	26	6,900	Lower Goru	04-Mar-00	Oil
329	Jabo	3	UTP	26-Aug-00	Sindh	27	6,900	Lower Goru	09-Sep-00	Gas
330	Jabo	4	BP	04-Dec-02	Sindh		6,900	Lower Goru	18-Dec-02	Oil
331	Jabo	5	BP	03-Apr-03	Sindh		6,814	Lower Goru	14-Apr-03	Oil
332	Jabo SWD	1	BP	02-Dec-03	Sindh		2,182		10-Dec-03	Completed
333	Jabo SWD	2	BP	05-Dec-07	Sindh		2,249	Parh L. st.		Completed
334	Jabo	6	BP	27-Sep-05	Sindh		8,648	Lower Goru	15-Oct-05	Oil/Gas
335	Jabo	7	BP	19-Apr-06	Sindh		7,031	Lower Goru	10-May-06	Plugged & Abd.
336	Jabo	8	BP	13-Feb-07	Sindh		6,778	Lower Goru	23-Feb-07	Oil
337	Jabo	9	BP	17-Dec-07	Sindh		6,937	Lower Goru	03-Jan-08	Oil
338	Jabo	12	BP	17-Sep-09	Sindh		7,083	Lower Goru	28-Sep-09	Oil
339	Jabo	11	BP	02-Apr-09	Sindh		6,985	Lower Goru	15-Apr-09	Oil & Gas
340	Jabo	13	BP	11-Mar-10	Sindh		6,832	Lower Goru	24-Mar-10	Oil & Gas
341	Jabo	14	UEPL	14-Aug-12	Sindh		7,070	Lower Goru	23-Aug-12	Oil
342	Jabo	15	UEPL	20-May-13	Sindh		4,972			-
343	Jabo North	2	BP	13-Aug-08	Sindh		6,880	Lower Goru	26-Aug-08	Gas Cond.
344	Jagir	2	UTP	15-Oct-99	Sindh	73	7,552	Lower Goru	04-Nov-99	Oil
345	Jagir	3	UTP	09-Nov-00	Sindh	75	7,552	Lower Goru	03-Dec-00	Oil
346	Jagir (WIW)	4	UTP	15-Apr-01	Sindh	74	6,977	Lower Goru		Completed as WIW
347	Jakhro	2	OGDCL	30-Jun-04	Sindh		10,827	Lower Goru		Ptgd. & Abd.
348	Jalal	2	UTP	19-Jan-95	Sindh		5,624	Lower Goru	05-Feb-95	Gas
349	Jalal	D1	BP	02-Nov-06	Sindh		8,527	Lower Goru	27-Nov-06	Gas
350	Jalal	D2	BP	22-Apr-08	Sindh		9,719	Lower Goru		Gas
351	Jalal	D3	UEPL	06-May-12	Sindh		9,426			-
352	Jand	2	OGDCL	26-Feb-16	Punjab		20,640			Drilling
353	Jhaberi South	2	BP	19-Feb-09	Sindh		6,099	Lower Goru	27-Feb-09	Oil
354	Jhaberi South	3	UEPL	25-Jun-13	Sindh		1,440			-
355	Jhal Magsi South	2	OGDCL	31-Dec-06	Baloch.		13,238	Dunghan		Gas
356	Jogwani	2	BP	22-Dec-05	Sindh		2,805	Lower Goru	28-Dec-05	Gas
357	Jogwani	3	BP	02-Dec-07	Sindh		2,830	Lower Goru	09-Dec-07	Gas
358	Jogwani	4	BP	10-May-09	Sindh		2,806	Lower Goru	16-May-09	Gas

Note: Shaded area indicate wells drilled in current year

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APPRAISAL/DEVELOPMENT WELLS (Contd.)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
359	Joya Mair	2	POL	27-Aug-44	Punjab	1663	7,051	Chorgali/Sakessar	28-Apr-45	Oil
360	Joya Mair	3	POL	01-Dec-45	Punjab	1641	9,016		30-Apr-46	Abandoned
361	Joya Mair	4	POL	12-Jun-85	Punjab	1745	8,717	Salt Range	11-Dec-85	Oil
362	Kadanwari	3	Lasmo	01-Feb-91	Sindh	186	11,417	Lower Goru	17-Apr-91	Gas
363	Kadanwari	4	Lasmo	27-Apr-91	Sindh	164	11,608	Lower Goru	13-Jul-91	Gas
364	Kadanwari	5	Lasmo	16-Feb-94	Sindh		11,399	Lower Goru	27-Apr-94	Abandoned
365	Kadanwari	6	Lasmo	30-Jun-94	Sindh		11,585	Lower Goru	27-Aug-94	Gas
366	Kadanwari	7	Lasmo	22-Sep-94	Sindh		11,391	Lower Goru	29-Nov-94	Gas
367	Kadanwari	8	Lasmo	02-Mar-95	Sindh		11,230	Lower Goru	24-May-95	Abandoned
368	Kadanwari	9	Lasmo	19-Apr-97	Sindh		11,112	Goru	16-Aug-97	Gas
369	Kadanwari	10	Lasmo	28-Jun-98	Sindh		11,631	Lower Goru	31-Aug-98	Gas
370	Kadanwari	11	Lasmo	05-Aug-00	Sindh		11,594	Lower Goru		Gas
371	Kadanwari	12	Lasmo	18-May-01	Sindh		11,260	Lower Goru		Gas
372	Kadanwari	13	Lasmo	14-Jul-01	Sindh	60	11,719	Lower Goru	06-Sep-01	Suspended
373	Kadanwari	4updip	Lasmo	06-Apr-02	Sindh		11,516	Lower Goru		Plugd & Abd.
374	Kadanwari	14	ENI	14-Sep-03	Sindh		11,499	Lower Goru	06-Nov-03	Gas
375	Kadanwari	15	ENI	04-Feb-06	Sindh		11,201	Lower Goru	10-Mar-06	Gas
376	Kadanwari	16	ENI	08-Jan-07	Sindh		11,549	Lower Goru		Plugged & Suspd.
377	Kadanwari	17	ENI	11-Jun-08	Sindh		12,884			Gas
378	Kadanwari	18	ENI	28-Feb-07	Sindh		11,631	Lower Goru		Gas
379	Kadanwari	18ST	ENI	03-Nov-10	Sindh		12,051	Lower Goru	02-Dec-10	Gas
380	Kadanwari	19	ENI	13-Nov-09	Sindh		11,368	Lower Goru	16-Dec-09	Gas
381	Kadanwari	20	ENI	30-Mar-09	Sindh		11,345			Gas
382	Kadanwari	21	ENI	22-Jan-10	Sindh		11,585	Lower Goru		Gas
383	Kadanwari	23	ENI	17-Mar-10	Sindh		11,499	Lower Goru		Gas
384	Kadanwari	24	ENI	01-Jun-10	Sindh		11,827			Gas
385	Kadanwari	25	ENI	02-Aug-10	Sindh		11,565			Gas
386	Kadanwari	25Dir-A	ENI	23-Dec-10	Sindh		11,581			Gas
387	Kadanwari	26	ENI	07-Feb-11	Sindh		11,483			Suspended
388	Kadanwari	27	ENI	04-Apr-11	Sindh		11,598			Gas
389	Kadanwari	28	ENI	05-Nov-11	Sindh		12,838	Lower Goru	16-Dec-12	Suspended
390	Kadanwari Dir	29	ENI	15-Mar-12	Sindh		11,506		26-Apr-12	Gas
391	Kadanwari Dir	30	ENI	15-Jan-12	Sindh		11,778	Lower Goru	06-Mar-12	Gas
392	Kadanwari HOR	31	ENI	26-Jul-13	Sindh		14,951	Lower Goru	10-Oct-13	Gas
393	Kadanwari Dir	32	ENI	26-Mar-13	Sindh		11,798		19-May-13	Gas
394	Kadanwari	33	ENI	30-May-13	Sindh		9,232			-
395	Kadanwari Dir	34	ENI	21-Mar-14	Sindh		11,627			Plugged & Abd.
396	Kadanwari Dir	35	ENI	07-Nov-13	Sindh		11,611		10-Dec-13	Gas
397	Kadanwari Dir	36	ENI	17-Jan-14	Sindh		11,575		15-Feb-14	Gas
398	Kadanwari	37	ENI	25-May-14	Sindh		10,784			Drilling
399	Kadanwari Dir	38	ENI	12-Mar-15	Sindh		11,893			Gas
400	Kadanwari Dir	40	ENI	03-Oct-17	Sindh		11,329		30-May-17	Plugged & Suspd.
401	Kal	2	OGDC	11-Nov-95	Punjab		8,891	Khewra S. St.	09-Feb-96	Oil
402	Kal	3	OGDC	31-Dec-07	Punjab		9,236	Khewra S. St.		Oil
403	Kamal North	2	BP	04-Nov-09	Sindh		9,356	Lower Goru		Oil & Gas
404	Kandhkot	2	PPL	08-Jan-71	Sindh	243	5,108	Sui Main Ls.	17-Feb-71	Gas
405	Kandhkot	3	PPL	14-Jan-85	Sindh	253	4,921	Sui Main Ls.	16-Feb-85	Gas
406	Kandhkot	4	PPL	29-Mar-85	Sindh	249	4,806	Sui Main Ls.	25-Apr-85	Gas
407	Kandhkot	5	PPL	16-May-85	Sindh	256	4,593	Sui Main Ls.	21-Jun-85	Gas
408	Kandhkot	6	PPL	24-Jul-85	Sindh	244	4,624	Sui Main Ls.	08-Sep-85	Gas
409	Kandhkot	7	PPL	11-Sep-85	Sindh	245	4,852	Sui Main Ls.	05-Oct-85	Gas
410	Kandhkot	8	PPL	22-Oct-85	Sindh	235	4,925	Sui Main Ls.	10-Dec-85	Gas
411	Kandhkot	9	PPL	14-Dec-85	Sindh	249	4,754	Sui Main Ls.	01-Feb-86	Gas
412	Kandhkot	10	PPL	20-Feb-86	Sindh	246	4,446	Sui Main Ls.	08-Mar-86	Gas
413	Kandhkot	11	PPL	21-Mar-86	Sindh	236	4,636	Sui Main Ls.	16-Apr-86	Gas
414	Kandhkot	12	PPL	03-May-86	Sindh	239	4,741	Sui Main Ls.	21-May-86	Gas
415	Kandhkot	13	PPL	03-Jun-86	Sindh	239	4,741	Sui Main Ls.	26-Jun-86	Gas
416	Kandhkot	14	PPL	03-Jul-86	Sindh	244	4,708	Sui Main Ls.	28-Jul-86	Gas
417	Kandhkot	15	PPL	15-Nov-86	Sindh	251	4,430	Sui Main Ls.	13-Dec-86	Gas
418	Kandhkot	16	PPL	31-Dec-86	Sindh	251	4,495	Sui Main Ls.	27-Jan-87	Gas

Note: Shaded area indicate wells drilled in current year

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APPRAISAL/DEVELOPMENT WELLS (Contd.)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
419	Kandhkot	20	PPL	12-Jan-87	Sindh	270	14,603	Sui Main Ls.	17-Aug-87	Gas
420	Kandhkot	17	PPL	01-Feb-87	Sindh	243	4,646	Sui Main Ls.	19-Feb-87	Gas
421	Kandhkot	18	PPL	02-Mar-87	Sindh	250	4,626	Sui Main Ls.	25-Mar-87	Gas
422	Kandhkot	19	PPL	06-Apr-87	Sindh	243	4,538	Sui Main Ls.	24-Apr-87	Gas
423	Kandhkot	22	PPL	09-Feb-96	Sindh		3,215	Habib Rahi		Gas
424	Kandhkot	21	PPL	09-Jun-98	Sindh		5,059	Habib Rahi		Gas
425	Kandhkot	23	PPL	19-Oct-00	Sindh	248	5,226	Sui Main Ls.	03-Jan-01	Gas
426	Kandhkot	24	PPL	18-Sep-03	Sindh		5,217		08-Dec-03	Gas
427	Kandhkot	25	PPL	01-Apr-05	Sindh		4,606			Gas
428	Kandhkot	26	PPL	25-Oct-07	Sindh		6,250	SML		Gas
429	Kandhkot	27	PPL	04-Mar-08	Sindh		5,518	Sui Upper L. St.		Gas
430	Kandhkot	28	PPL	16-Aug-12	Sindh		7,133		01-Feb-13	Gas
431	Kandhkot Effluent	30	PPL	17-Apr-11	Sindh		2,687			Completed
432	Kandhkot-H	31	PPL	01-Dec-13	Sindh		3,921			Gas
433	Kandhkot	32	PPL	26-Aug-14	Sindh		8,307	SML	27-Dec-14	Gas
434	Kandhkot HRL	33	PPL	14-Jan-16	Sindh		5,148			Gas
435	Kandhkot H	34	PPL	07-Apr-16	Sindh		6,985			Gas
436	Kandhkot H	35	PPL	23-May-16	Sindh		6,903			Gas
437	Kandhkot EFU	36	PPL	25-Mar-16	Sindh		2,664		04-Apr-16	Completed
438	Kandhkot H	38	PPL	25-Dec-16	Sindh		5,482		04-Jan-17	Gas
439	Kandhkot H	39	PPL	30-Jul-17	Sindh		7,812		14-Oct-17	Gas
440	Kandhkot H	40	PPL	02-Mar-17	Sindh		5,299			Gas
441	Kandhkot H	42	PPL	03-Mar-17	Sindh		6,368			Gas
442	Kandhkot H	43	PPL	25-Apr-17	Sindh		7,556			Gas
443	Kandhkot H	44	PPL	28-May-17	Sindh		6,588			Gas
444	Kandhkot	45	PPL	26-Jun-18	Sindh		1,014			Drilling
445	Kandhkot H	41	PPL	30-Jun-17	Sindh		6,335			Drilling
446	Kandra	2	Premier	05-Sep-96	Sindh		2,165	SML	06-Oct-96	Suspended
447	Karsal	2	POL	30-Sep-57	Punjab	1,362	12,675	Hangu	14-Dec-58	Abandoned
448	Karsal	3	POL	15-May-59	Punjab	1,341	11,664	Sakessar	07-Nov-59	Oil
449	Karsal	4	POL	21-Jul-60	Punjab	1,251	12,221	Chhidru	28-Apr-61	Abandoned
450	Kato	2	BP	27-Feb-06	Sindh		2,818	Upper Goru		Suspended
451	Kato	3	BP	17-Aug-06	Sindh		7,753	Lower Goru	05-Sep-06	Gas
452	Kausar SWD	1	UEPL	19-Jan-16	Sindh		4,180			Completed
453	Keyhole-G	2	BP	02-Jun-03	Sindh		5,902	Lower Goru		Oil
454	Keyhole-G-SWD	1	BP	25-Jun-03	Sindh		2,185			Completed
455	Khanpur	2	PEL	03-Dec-07	Sindh		3,248			Gas
456	Khaskeli	2	UTP	02-Nov-81	Sindh	45	3,606	Lower Goru	03-Dec-81	Oil
457	Khaskeli	3	UTP	05-Dec-81	Sindh	45	3,520	Lower Goru	17-Dec-81	Oil
458	Khaskeli	4	UTP	14-Jan-82	Sindh	45	3,666	Lower Goru	20-Feb-82	Oil
459	Khaskeli	5	UTP	21-Feb-82	Sindh	45	3,700	Lower Goru	17-Mar-82	Oil
460	Khaskeli	6	UTP	18-Sep-82	Sindh	55	3,780	Lower Goru	07-Oct-82	Oil
461	Khaskeli	7	UTP	11-Oct-82	Sindh	55	3,675	Lower Goru	21-Oct-82	Oil
462	Khaskeli	8	UTP	28-Mar-83	Sindh	53	6,990	Lower Goru	02-May-83	Abandoned
463	Khaskeli	9	UTP	30-Jun-83	Sindh	43	3,800	Lower Goru	03-Aug-83	INJ
464	Khaskeli	11	UTP	28-Jun-84	Sindh	67	3,815	Lower Goru	01-Aug-84	Oil
465	Khaskeli	10	UTP	16-Jul-84	Sindh	67	3,600	Lower Goru	26-Jul-84	Oil
466	Khaskeli	12	UTP	20-May-85	Sindh	48	3,610	Lower Goru	01-Jun-85	Oil
467	Khaskeli	13	UTP	14-Mar-88	Sindh	47	4,700	Lower Goru	24-Mar-88	Oil
468	Khaskeli	14	UTP	01-Nov-92	Sindh	51	3,652	Lower Goru	09-Nov-92	Abandoned
469	Khaskeli	15	BP	19-Nov-03	Sindh		3,806	Lower Goru	24-Nov-03	Oil
470	Khaskeli	16	BP	31-Dec-04	Sindh	52	3,488	Lower Goru	04-Jan-05	Oil
471	Khaskeli	17	BP	29-Jul-09	Sindh		3,790	Lower Goru	04-Aug-09	Oil
472	Khaur	176	AOC	11-Feb-50	Punjab	1,532	5,440	Sakessar	01-Apr-51	Oil
473	Khaur	396	POL	08-Oct-54	Punjab	1,601	6,734		08-May-55	Abandoned
474	Khaur	238	POL	01-Jul-60	Punjab		6,726		21-Jan-61	Oil
475	Khaur POL	1	POL	07-Mar-07	Punjab		13,753			Plugd. & Abd.
476	Khiron	1	OGDCL	17-Feb-18	Sindh		9,547		14-Jun-18	Gas Cond.
477	Khorewah	2	UTP	04-Nov-89	Sindh	49	6,950	Lower Goru	27-Nov-89	Gas
478	Khorewah	3	UTP	07-Dec-93	Sindh		6,800	Lower Goru	24-Dec-93	Gas

Note: Shaded area indicate wells drilled in current year

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APPRAISAL/DEVELOPMENT WELLS (Contd.)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
479	Khorewah	4	UTP	16-Jun-94	Sindh		6,610	Lower Goru	01-Jul-94	Gas
480	Khorewah	5	BP	06-Dec-01	Sindh		6,870	Lower Goru	19-Dec-11	Gas
481	Khorewah Deep	2	BP	29-Apr-08	Sindh		10,951	Lower Goru		Gas
482	Khorewah Deep	3	UEPL	21-Feb-12	Sindh		10,879			Gas
483	Khost	2	MGCL	25-Apr-08	Baloch.		3,967			Oil
484	Khost	3	MGCL	09-Dec-10	Baloch.		3,051			Temp. Suspended
485	Koli	2	UTP	02-Dec-89	Sindh	49	4,950	Lower Goru	15-Dec-89	Oil/Gas
486	Koli	3	UEPL	06-Jun-13	Sindh		4,966			-
487	Korai	2	UEPL	20-Mar-17	Sindh				02-Jun-17	Gas Cond.
488	Kothar	2	OGDC	21-Feb-89	Sindh	988	6,385	Ranikot	02-Aug-89	Abandoned
489	Kumbh	2	UEPL	08-May-16	Sindh		8,688			Gas Cond.
490	Kumbh	3	UEPL	27-Aug-16	Sindh		6,890		11-Sep-16	Gas Cond.
491	Kunar	3	OGDC	11-Jan-89	Sindh	76	6,759	Lower Goru	20-Feb-89	Oil
492	Kunar	4	OGDC	13-Sep-89	Sindh	76	6,726	Lower Goru	15-Oct-89	Abandoned
493	Kunar	5	OGDC	16-Sep-91	Sindh	78	6,562	Lower Goru	09-Nov-91	Oil
494	Kunar	6	OGDC	09-Feb-03	Sindh		6,414	Lower Goru		Oil
495	Kunar	7	OGDC	30-Mar-08	Sindh		6,398	Lower Goru	01-May-08	Gas/Cond.
496	Kunar	8	OGDC	30-Jun-08	Sindh		6,398	Lower Goru		Oil & Gas
497	Kunar	9	OGDC	14-Aug-14	Sindh		6,398	Lower Goru	04-Oct-14	Oil
498	Kunar	10	OGDC	11-Nov-15	Sindh		6,929			Oil
499	Kunar	11	OGDC	07-Feb-16	Sindh		6,804			Oil
500	Kunar	12	OGDCL	21-Jun-18	Sindh		2,717			Drilling
501	Kunnar Deep	2	OGDCL	03-Mar-06	Sindh		10,879	Sembar	13-May-06	Gas/Cond.
502	Kunnar Deep	3	OGDCL	30-Dec-06	Sindh		10,833	Sembar	23-Mar-07	Gas/Cond.
503	Kunnar Deep	4	OGDCL	18-Jan-07	Sindh		11,076	Sembar	15-Apr-07	Oil
504	Kunnar Deep	5	OGDCL	17-Nov-07	Sindh		10,938	Sembar	25-Feb-08	Gas/Cond.
505	Kunnar Deep	6	OGDCL	14-Mar-08	Sindh		10,879	Sembar		Gas/Cond.
506	Kunnar Deep	7	OGDCL	05-Mar-08	Sindh		10,902		01-May-08	Gas/Cond.
507	Kunnar Deep	8	OGDCL	29-Jun-08	Sindh		11,263	Sembar	01-May-08	Gas/Cond.
508	Kunnar Deep	9	OGDCL	24-Oct-13	Sindh		12,894		07-Jun-13	-
509	Kunnar Deep	10	OGDCL	12-Jun-15	Sindh		9,816			Drilling
510	Kunnar Deep	11	OGDCL	16-Dec-15	Sindh		10,951			Gas Cond.
511	Kunnar WDW	1	OGDCL	23-Jun-18	Sindh		2,096			Drilling
512	Kunnar West	2	OGDCL	14-Nov-17	Sindh		10,886		20-Mar-18	Gas Cond.
513	Kundahu	1	OMV	15-Mar-96	Sindh		12,221	Lower Goru		Abandoned
514	Laghari	2	UTP	27-Nov-83	Sindh	68	2,740	Lower Goru	09-Dec-83	Oil
515	Laghari	3	UTP	16-May-84	Sindh	67	2,750	Lower Goru	30-May-84	Oil
516	Laghari	4	UTP	02-Jul-84	Sindh	69	4,565	Lower Goru	25-Jul-84	Oil
517	Laghari	5	UTP	03-Jun-85	Sindh	55	2,740	Lower Goru	11-Jun-85	Oil
518	Laghari	6	UTP	23-Jul-85	Sindh	54	2,734	Lower Goru	29-Jun-85	Oil
519	Laghari	7	UTP	20-Dec-86	Sindh	55	2,750	Lower Goru	26-Dec-86	Oil
520	Laghari	8	UTP	17-Sep-96	Sindh		2,749	Lower Goru	30-Sep-96	Oil
521	Laghari	9	UEPL	24-Feb-14	Sindh		2,908			Oil
522	Laghari Deep	1	BP	13-Feb-09	Sindh		4,731	Lower Goru	23-Feb-09	Oil
523	Lashari Centre	2	OGDC	01-Jan-90	Sindh	69	7,369	Lower Goru	19-Apr-90	Abandoned
524	Lashari Centre	3	OGDC	10-Mar-94	Sindh		6,693	Lower Goru	19-Apr-94	Oil
525	Lashari Centre	4	OGDC	30-Jun-99	Sindh	71	6,778	Lower Goru	18-Aug-99	Completed as WIW
526	Lashari Center	5	OGDCL	29-Aug-05	Sindh		7,136	Lower Goru	14-Sep-05	Oil
527	Lashari Center	6	OGDCL	11-Dec-06	Sindh		7,087	Lower Goru	29-Jan-07	Oil
528	Lashari South	2	OGDC	06-Mar-88	Sindh	66	7,070	Lower Goru	17-Apr-88	Condensate
529	Latif	2	OMV	25-Apr-08	Sindh		11,444	Lower Goru		Gas
530	Latif	4	OMV	03-Feb-09	Sindh		11,483			Plugd. & Abd.
531	Latif	5	OMV	21-Feb-13	Sindh		11,345		15-Mar-13	Gas
532	Latif	6	OMV	03-Jan-13	Sindh		11,276		11-Feb-13	Gas
533	Latif	7	OMV	11-Nov-12	Sindh		11,302		24-Dec-12	Gas
534	Latif	9	OMV	25-Aug-13	Sindh		11,155	Lower Goru	15-Sep-13	Gas
535	Latif	10	OMV	23-Aug-14	Sindh		11,247	B Sand		Gas
536	Latif	14	OMV	03-Mar-16	Sindh		11,171			Gas
537	Latif	15	OMV	24-Apr-18	Sindh		11,286		08-Jun-18	Gas
538	Latif	17	OMV	10-Feb-19	Sindh		11,253		06-Apr-19	Gas

Note: Shaded area indicate wells drilled in current year

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APPRAISAL/DEVELOPMENT WELLS (Contd.)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
539	Liari	2	UTP	19-Nov-88	Sindh	78	9,275	Lower Goru	01-Jan-89	Oil
540	Liari	3	UTP	27-Nov-98	Sindh		6,946	Lower Goru	22-Dec-98	Oil
541	Liari	4	UTP	31-Jan-00	Sindh	74	7,001	Lower Goru	12-Feb-00	Gas
542	Liari	5	UTP	11-Dec-00	Sindh	74	7,001	Lower Goru	24-Dec-00	Oil
543	Liari Deep	2	BP	18-Jun-09	Sindh		10,613	Lower Goru		Gas
544	Lodano	2	UEPL	17-Jun-13	Sindh		4,865			-
545	Lodano	3	UEPL	03-Jul-13	Sindh		7,273	Lower Goru	16-Jul-13	Oil & Gas
546	Lodano Deep	2	UEPL	06-Mar-15	Sindh		7,382	Lower Shale	16-Mar-15	Oil & Gas
547	Loti	2	OGDC	12-Jun-85	Baloch.	3231	7,418	Mughalkot	25-Dec-85	Gas
548	Loti	3	OGDC	04-Jan-86	Baloch.	2942	7,070	Pab	25-Jan-87	Gas
549	Loti	4	OGDC	24-Nov-86	Baloch.	2549	6,234	Pab	19-Feb-87	Gas
550	Loti	5	OGDC	26-Mar-87	Baloch.	3051	6,844	Pab	14-Jul-87	Gas
551	Loti	7	OGDC	12-May-87	Baloch.	2753	7,103	Pab	27-Jul-87	Gas
552	Loti	8	OGDC	13-Aug-87	Baloch.	2848	6,594	Pab	12-Oct-87	Gas
553	Loti	6	OGDC	27-Aug-87	Baloch.	3087	7,060	Pab	16-Nov-87	Gas
554	Loti	10	OGDC	26-Oct-87	Baloch.	2584	5,361	Pab	05-Dec-87	Gas
555	Loti	9	OGDC	21-Dec-87	Baloch.	2348	5,033	Pab	03-Feb-88	Gas
556	Loti	11	OGDC	17-Feb-88	Baloch.	2151	5,364	Pab	06-May-88	Gas
557	Loti	12	OGDC	30-May-88	Baloch.	2145	5,039	Pab	25-Jun-88	Gas
558	Loti	14	OGDC	15-Jul-88	Baloch.	3248	6,916	Pab	29-Oct-88	Gas
559	Loti	15	OGDC	05-Sep-90	Baloch.	2870	1,880	Ghazij	24-Jan-91	Abandoned
560	Loti	16	OGDC	14-Feb-91	Baloch.		6,677	Pab	24-Apr-91	Gas
561	Loti	17	OGDC	26-May-91	Baloch.	2976	6,619	Pab	02-Nov-91	Gas
562	Loti	18	OGDC	24-Nov-91	Baloch.	2554	6,398	Pab	20-Mar-92	Gas
563	Loti	19	OGDC	04-Jan-15	Baloch.		5,912			Temp. Suspnd.
564	Makhdumpur	2	UTP	08-Aug-87	Sindh	42	8,000	Lower Goru	11-Sep-87	Gas
565	Makhdumpur Deep	2	BP	20-Jan-06	Sindh		11,201	Lower Goru	25-Mar-06	Gas
566	Makori	2	MOL	02-May-08	KPK		12,303			Suspended
567	Makori	3	MOL	04-Jan-10	KPK		11,171			Gas/Cond.
568	Makori Deep	2	MOL	01-May-19	KPK		11,722			Drilling
569	Makori East	2	MOL	05-Jul-11	KPK		17,274		05-Jun-12	Gas/Cond.
570	Makori East	3	MOL	09-Jan-13	KPK		15,098			-
571	Makori East	4	MOL	18-Sep-14	KPK		16,572			Gas Cond.
572	Makori East	5	MOL	08-Sep-15	KPK		16,982		08-Jul-16	Gas Cond.
573	Makori East	6	MOL	22-Jan-17	KPK		15,509			Drilling
574	Mamikhel	2	MOL	10-Jun-12	KPK		4,058			-
575	Manzalai	2	MOL	21-Feb-05	KPK	2465	14,409	Shinwari	12-Mar-06	Oil & Gas
576	Manzalai	3	MOL	26-Mar-06	KPK		15,978	Samana Suk		Oil/Gas
577	Manzalai	4	MOL	17-Dec-06	KPK		13,766			Gas/Cond.
578	Manzalai	5	MOL	02-Feb-08	KPK		13,665			Gas/Cond.
579	Manzalai	6	MOL	29-Jun-07	KPK		13,783			Gas/Cond.
580	Manzalai	7	MOL	24-Oct-08	KPK		13,566			Gas/Cond.
581	Manzalai	8	MOL	17-Nov-09	KPK		13,796			Gas/Cond.
582	Manzalai	9	MOL	24-Jun-11	KPK		13,468			-
583	Manzalai	10	MOL	02-Nov-12	KPK		13,048		13-May-13	Gas
584	Manzalai	11	MOL	27-Dec-13	KPK		15,092			-
585	Maramzai	2	MOL	18-Jun-12	KPK		390			-
586	Maramzai	4	MOL	21-Aug-16	KPK		9,875		01-Dec-16	Gas/Cond.
587	Mardankhel	3	MOL	20-Jun-16	KPK		16,732			Testing
588	Mardankhel	2	MOL	09-Sep-16	KPK		15,502		25-Jun-17	Gas/Cond.
589	Mari	26	MGCL	12-Oct-85	Sindh	244	2,434	Habib Rahi Ls.	01-Nov-85	Gas
590	Mari	44	MGCL	17-Oct-85	Sindh	249	2,489	Habib Rahi Ls.	26-Oct-85	Gas
591	Mari	34	MGCL	28-Oct-85	Sindh	248	2,558	Habib Rahi Ls.	05-Nov-85	Gas
592	Mari	33	MGCL	07-Nov-85	Sindh	245	2,464	Habib Rahi Ls.	13-Nov-85	Gas
593	Mari	35	MGCL	12-Nov-85	Sindh	247	2,502	Habib Rahi Ls.	23-Nov-85	Gas
594	Mari	28	MGCL	15-Nov-85	Sindh	245	2,448	Habib Rahi Ls.	23-Nov-86	Gas
595	Mari	30	MGCL	19-Nov-85	Sindh	242	2,474	Habib Rahi Ls.	28-Nov-85	Gas
596	Mari	25	MGCL	31-Dec-85	Sindh	248	2,500	Habib Rahi Ls.	06-Jan-86	Gas
597	Mari	37	MGCL	05-Jan-86	Sindh	247	2,590	Habib Rahi Ls.	10-Jan-86	Gas
598	Mari	52	MGCL	24-Jan-86	Sindh	239	2,636	Habib Rahi Ls.	29-Jan-86	Gas

Note: Shaded area indicate wells drilled in current year

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APPRAISAL/DEVELOPMENT WELLS (Contd.)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
599	Mari	45	MGCL	31-Jan-86	Sindh	245	2,630	Habib Rahi Ls.	24-Mar-86	Gas
600	Mari	61	MGCL	18-Apr-93	Sindh		2,510	Habib Rahi Ls.	24-Apr-93	Gas
601	Mari	62	MGCL	26-Apr-93	Sindh		2,476	Habib Rahi Ls.	02-May-93	Gas
602	Mari	63	MGCL	04-May-93	Sindh		2,500	Habib Rahi Ls.	09-May-93	Gas
603	Mari	57	MGCL	11-May-93	Sindh		2,490	Habib Rahi Ls.	15-May-93	Gas
604	Mari	58	MGCL	22-May-93	Sindh		2,490	Habib Rahi Ls.	26-May-93	Gas
605	Mari	56	MGCL	29-May-93	Sindh		2,485	Habib Rahi Ls.	01-Jun-93	Gas
606	Mari	54	MGCL	04-Jun-93	Sindh		2,472	Habib Rahi Ls.	07-Jun-93	Gas
607	Mari	55	MGCL	09-Jun-93	Sindh		2,420	Habib Rahi Ls.	16-Jun-93	Gas
608	Mari	X-2	MGCL	01-Sep-57	Sindh	221	10,469	Sembar	30-Nov-57	Abandoned
609	Mari	X-3	MGCL	27-May-59	Sindh	250	9,628	Lower Goru	20-Sep-60	Gas
610	Mari	4	MGCL	12-Nov-65	Sindh	251	2,433	Lower Khirthar	21-Dec-65	Gas
611	Mari	5	MGCL	31-Dec-65	Sindh	244	2,598	Lower Khirthar	16-Jan-66	Gas
612	Mari	6	MGCL	25-Jan-66	Sindh	250	2,598	Habib Rahi Ls.	12-Feb-66	Gas
613	Mari	7	MGCL	19-Feb-66	Sindh	250	2,575	Habib Rahi Ls.	24-Feb-66	Abandoned
614	Mari	8	MGCL	02-Mar-66	Sindh	247	2,458	Lower Khirthar	11-Mar-66	Gas
615	Mari	9	MGCL	17-Mar-66	Sindh	246	2,451	Lower Khirthar	26-Jun-66	Gas
616	Mari	10	MGCL	08-Oct-77	Sindh	246	2,573	Lower Khirthar	04-Nov-77	Gas
617	Mari	11	MGCL	07-Nov-77	Sindh	240	2,620	Habib Rahi Ls.	24-Nov-77	Gas
618	Mari	12	MGCL	26-Nov-77	Sindh	242	2,470	Lower Khirthar	08-Dec-77	Gas
619	Mari	13	MGCL	10-Dec-77	Sindh	245	2,433	Lower Khirthar	20-Dec-77	Gas
620	Mari	14	MGCL	22-Dec-77	Sindh	248	2,452	Lower Khirthar	31-Dec-77	Gas
621	Mari	15	MGCL	02-Jan-78	Sindh	242	2,416	Lower Khirthar	10-Jan-78	Gas
622	Mari	16	MGCL	13-Jan-78	Sindh	242	2,400	Lower Khirthar	20-Jan-78	Gas
623	Mari	17	MGCL	04-Feb-78	Sindh	242	2,420	Habib Rahi Ls.	12-Feb-78	Gas
624	Mari	23	MGCL	09-Apr-81	Sindh	247	2,475	Habib Rahi Ls.	08-Jul-81	Gas
625	Mari	18	MGCL	06-May-81	Sindh	247	2,484	Habib Rahi Ls.	21-May-81	Gas
626	Mari	24	MGCL	22-May-81	Sindh	248	2,550	Habib Rahi Ls.	31-May-81	Gas
627	Mari	19	MGCL	02-Jun-81	Sindh	245	2,550	Habib Rahi Ls.	12-Jun-81	Gas
628	Mari	20	MGCL	14-Jun-81	Sindh	244	2,480	Habib Rahi Ls.	25-Jun-81	Gas
629	Mari	21	MGCL	06-Jul-81	Sindh	247	2,450	Habib Rahi Ls.	14-Jul-81	Gas
630	Mari	22	MGCL	16-Jul-81	Sindh	241	2,494	Habib Rahi Ls.	23-Jul-81	Gas
631	Mari	27	MGCL	01-Nov-85	Sindh	250	2,461	Habib Rahi Ls.	30-Jan-86	Gas
632	Mari	36	MGCL	21-Nov-85	Sindh	247	2,653	Habib Rahi Ls.	02-Dec-85	Gas
633	Mari	31	MGCL	30-Nov-85	Sindh	245	2,484	Habib Rahi Ls.	06-Dec-85	Gas
634	Mari	41	MGCL	02-Dec-85	Sindh	246	2,493	Habib Rahi Ls.	21-Dec-85	Gas
635	Mari	29	MGCL	03-Dec-85	Sindh	248	2,448	Habib Rahi Ls.	09-Dec-85	Gas
636	Mari	32	MGCL	08-Dec-85	Sindh	246	2,474	Habib Rahi Ls.	16-Dec-85	Gas
637	Mari	50	MGCL	13-Dec-85	Sindh	242	2,558	Habib Rahi Ls.	18-Dec-85	Gas
638	Mari	43	MGCL	21-Dec-85	Sindh	251	2,608	Habib Rahi Ls.	29-Dec-85	Gas
639	Mari	49	MGCL	23-Dec-85	Sindh	243	2,515	Habib Rahi Ls.	28-Dec-85	Gas
640	Mari	48	MGCL	30-Dec-85	Sindh	246	2,557	Habib Rahi Ls.	14-Jan-86	Gas
641	Mari	47	MGCL	07-Jan-86	Sindh	248	2,489	Habib Rahi Ls.	13-Jan-86	Gas
642	Mari	38	MGCL	11-Jan-86	Sindh	246	2,448	Habib Rahi Ls.	16-Jan-86	Gas
643	Mari	46	MGCL	14-Jan-86	Sindh	247	2,452	Habib Rahi Ls.	20-Jan-86	Gas
644	Mari	39	MGCL	17-Jan-86	Sindh	247	2,480	Habib Rahi Ls.	22-Jan-86	Gas
645	Mari	51	MGCL	31-Jan-86	Sindh	242	2,484	Habib Rahi Ls.	16-Feb-86	Gas
646	Mari	53	MGCL	08-Feb-86	Sindh	247	2,462	Habib Rahi Ls.	08-Mar-86	Gas
647	Mari	E-2	MGCL	18-Feb-86	Sindh	235	2,618	Habib Rahi Ls.	12-Mar-86	Gas
648	Mari	E-3	MGCL	27-Feb-86	Sindh	249	2,631	Habib Rahi Ls.	05-Mar-86	Gas
649	Mari	E-1	MGCL	07-Mar-86	Sindh	63	2,625	Habib Rahi Ls.	20-Apr-86	Gas
650	Mari	59	MGCL	01-Apr-93	Sindh		2,430	Habib Rahi Ls.	09-Apr-93	Gas
651	Mari	60	MGCL	10-Apr-93	Sindh		2,435	Habib Rahi Ls.	18-Apr-93	Gas
652	Mari	64	MGCL	12-Apr-94	Sindh		2,475	Habib Rahi Ls.	23-Apr-94	Gas
653	Mari	65	MGCL	26-Apr-94	Sindh		2,482	Habib Rahi Ls.	05-May-94	Gas
654	Mari	67	MGCL	07-May-94	Sindh		2,477	Habib Rahi Ls.	15-May-94	Gas
655	Mari	E-5	MGCL	18-May-94	Sindh		2,555	Habib Rahi Ls.	26-May-94	Gas
656	Mari	E-7	MGCL	02-Jun-94	Sindh		2,650	Habib Rahi Ls.	13-Jun-94	Abandoned
657	Mari	E-4	MGCL	18-Jun-94	Sindh		2,592	Habib Rahi Ls.	27-Jun-94	Gas
658	Mari	E-6	MGCL	01-Jul-94	Sindh		2,570	Habib Rahi Ls.	10-Jul-94	Abandoned

Note: Shaded area indicate wells drilled in current year

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APPRAISAL/DEVELOPMENT WELLS (Contd.)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
659	Mari	E-89	MGCL	16-Jul-94	Sindh		2,433	Habib Rahi Ls.	01-Aug-94	Gas
660	Mari	E-40	MGCL	05-Aug-95	Sindh		2,465	Habib Rahi Ls.	01-Aug-94	Gas
661	Mari	90	MGCL	21-Dec-02	Sindh		2,485	Habib Rahi Ls.		Gas
662	Mari	70	MGCL	15-Jan-03	Sindh		2,485	Habib Rahi Ls.		Gas
663	Mari	71	MGCL	19-Jan-03	Sindh		2,485	Habib Rahi Ls.		Gas
664	Mari	72	MGCL	01-Feb-03	Sindh		2,486	Habib Rahi Ls.	13-Feb-03	Gas
665	Mari	73	MGCL	15-Feb-03	Sindh		2,550	Habib Rahi Ls.	26-Feb-03	Gas
666	Mari	74	MGCL	28-Feb-03	Sindh		2,485	Habib Rahi Ls.	08-Mar-03	Gas
667	Mari	76	MGCL	10-Mar-03	Sindh		2,485	Habib Rahi Ls.	18-Mar-03	Gas
668	Mari	75	MGCL	19-Mar-03	Sindh		2,485	Habib Rahi Ls.	31-Mar-03	Gas
669	Mari	77	MGCL	01-Apr-03	Sindh		2,485	Habib Rahi Ls.		Gas
670	Mari	81	MGCL	11-Apr-03	Sindh		2,487	Habib Rahi Ls.	18-Apr-03	Gas
671	Mari	80	MGCL	20-Apr-03	Sindh		2,485	Habib Rahi Ls.	27-Apr-03	Gas
672	Mari	79	MGCL	29-Apr-03	Sindh		2,485	Habib Rahi Ls.	06-May-03	Gas
673	Mari	86	MGCL	07-May-03	Sindh		2,490	Habib Rahi Ls.		Gas
674	Mari	83	MGCL	10-May-03	Sindh		2,486	Habib Rahi Ls.	17-May-03	Gas
675	Mari	84	MGCL	19-May-03	Sindh		2,485	Habib Rahi Ls.	26-May-03	Gas
676	Mari	82	MGCL	27-May-03	Sindh		2,530	Habib Rahi Ls.		Gas
677	Mari	78	MGCL	04-Jun-03	Sindh		2,484	Habib Rahi Ls.		Gas
678	Mari	92	MGCL	13-Oct-12	Sindh		2,480		06-Nov-12	Gas
679	Mari	93	MGCL	18-Sep-12	Sindh		2,513		06-Oct-12	Gas
680	Mari	94	MGCL	14-Jun-12	Sindh		2,234			-
681	Mari	95	MGCL	17-Jul-12	Sindh		2,411		10-Aug-12	Gas
682	Mari	97	MGCL	17-Aug-12	Sindh		2,444		04-Sep-12	Gas
683	Mari	98	MPCL	01-Oct-15	Sindh		2,572			Gas
684	Mari	99	MPCL	13-Sep-15	Sindh		2,572			Gas
685	Mari	100	MPCL	26-Oct-15	Sindh		2,425			Gas
686	Mari	101	MPCL	16-Nov-15	Sindh		2,451			Gas
687	Mari	102	MPCL	23-Jun-18	Sindh		1,617			Drilling
688	Mari	103	MPCL	24-Jul-18	Sindh		2,464		10-Aug-18	Gas
689	Mari	104	MPCL	13-Aug-18	Sindh		2,552		29-Aug-18	Gas
690	Mari	105	MPCL	31-Aug-18	Sindh		2,484		14-Sep-18	Gas
691	Mari	106	MPCL	17-Oct-18	Sindh		2,569		28-Oct-18	Gas
692	Mari	107	MPCL	16-Sep-18	Sindh		2,461		28-Sep-18	Gas
693	Mari	108	MPCL	02-Oct-18	Sindh		2,589		14-Oct-18	Gas
694	Mari	109	MPCL	28-Nov-18	Sindh		2,444		09-Dec-18	Gas
695	Mari	110	MPCL	13-Nov-18	Sindh		2,441		25-Nov-18	Gas
696	Mari	111	MPCL	26-Dec-18	Sindh		2,385		16-Jan-19	Gas
697	Mari	112	MPCL	16-Mar-19	Sindh		2,451		29-Mar-19	Gas
698	Mari	113	MPCL	18-Jan-19	Sindh		2,444		01-Feb-19	Gas
699	Mari	114	MPCL	30-Oct-18	Sindh		2,441		10-Nov-18	Gas
700	Mari	115	MPCL	16-Feb-19	Sindh		2,444		27-Feb-19	Gas
701	Mari	116	MPCL	13-Apr-19	Sindh		2,467		21-Apr-19	Gas
702	Mari	117	MPCL	05-Feb-19	Sindh		2,451		14-Feb-19	Gas
703	Mari	118	MPCL	01-Mar-19	Sindh		2,461		13-Mar-19	Gas
704	Mari	119	MPCL	01-Apr-19	Sindh		2,451			Gas
705	Mari	120	MPCL	12-Dec-18	Sindh		2,441		25-Dec-18	Gas
706	Mari PKL	1	MGCL	06-Dec-06	Sindh		1,831	Pirkoh Lime st.	22-Dec-06	Gas
707	Mari PKL	2	MGCL	06-Jan-07	Sindh		1,831	Pirkoh Lime st.	23-Jan-07	Plugged & Abd.
708	Mari PKL	3	MGCL	25-Dec-06	Sindh		1,896	Pirkoh Lime st.	03-Jan-07	Gas
709	Mari Deep	4	MGCL	06-Dec-00	Sindh	251	9,499	Lower Goru	08-Feb-01	Gas
710	Mari Deep	3	MGCL	19-Dec-00	Sindh	251	9,501	Lower Goru	18-Feb-01	Gas
711	Mari Deep	6	MGCL	18-Feb-01	Sindh	253	9,300	Lower Goru	30-Mar-01	Gas
712	Mari PKL	7	MPCL	14-Jun-14	Sindh		1,821			Testing
713	Mari PKL	8	MPCL	31-Jul-14	Sindh		1,814	Pirkoh		Gas
714	Mari Deep	9	MGCL	07-Apr-01	Sindh	251	7,803	Lower Goru		Gas
715	Mari Deep	10	MGCL	29-May-01	Sindh	251	9,596	Lower Goru		Gas
716	Mari Deep	11	MGCL	19-Jul-01	Sindh	264	9,524	Habib Rahi	16-Sep-01	Gas
717	Mari Water Disposal		MGCL	18-Sep-94	Sindh		1,596		25-Sep-94	INJ
718	Mari Deep	12	MGCL	24-Jan-04	Sindh		9,613	Lower Goru	02-Apr-04	Gas

Note: Shaded area indicate wells drilled in current year

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APPRAISAL/DEVELOPMENT WELLS (Contd.)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
719	Mari Deep	13	MGCL	13-Sep-08	Sindh		9,547			Gas
720	Mari Deep	15	MGCL	05-Mar-09	Sindh		9,196			Gas
721	Matli	2	UTP	11-Apr-89	Sindh	64	5,801	Lower Goru	08-May-89	Gas
722	Matli	3	UTP	04-Jun-89	Sindh	65	6,065	Lower Goru	20-Jun-89	Oil
723	Matli	4	UTP	27-Apr-92	Sindh		5,800	Lower Goru	18-May-92	Gas
724	Matli Deep	1	BP	31-Dec-08	Sindh		8,203	Lower Goru	18-Jan-09	Oil & Gas
725	Matli Deep	2	BP	14-Jan-11	Sindh		7,369	Lower Goru		Gas
726	Maru	2	OGDC	02-Mar-11	Sindh		3,297			Gas
727	Mazarani	2	Hunt	19-Jan-90	Sindh	279	9,875	Lower Goru	21-May-90	Gas
728	Mazarani	3	Hunt	31-May-90	Sindh	425	6,693	Lower Goru	22-Aug-90	Gas
729	Mazarani	4	PPL	03-Jun-07	Sindh		6,644	Laki		Gas
730	Mazarani	5	PPL	18-Dec-16	Sindh		6,627		18-Jan-17	Gas
731	Mazari	3	UTP	09-Aug-85	Sindh	67	4,750	Lower Goru	26-Aug-85	Oil
732	Mazari	4	UTP	16-Sep-86	Sindh	70	4,250	Lower Goru	29-Sep-86	Oil
733	Mazari	5	UTP	14-Nov-86	Sindh	66	4,300	Lower Goru	24-Nov-86	Oil
734	Mazari	6	UTP	01-Mar-90	Sindh	68	4,200	Lower Goru	10-Mar-90	Oil
735	Mazari	7	UTP	14-Nov-90	Sindh	67	4,282	Lower Goru	27-Nov-90	Oil
736	Mazari	8	UTP	30-Sep-95	Sindh		4,199	Khewra S. St.	09-Sep-95	Oil
737	Mazari	9	BP	13-Dec-01	Sindh	72	4,199	Lower Goru	18-Dec-01	Oil
738	Mazari	10	BP	25-Apr-09	Sindh		4,375	Lower Goru	01-May-09	Oil
739	Mazari	11	UEPL	17-Jun-12	Sindh		4,259			-
740	Mazari	12	UEPL	16-Jun-13	Sindh		5,696			-
741	Mazari	13	UEPL	27-Jul-13	Sindh		4,509		04-Aug-13	Oil
742	Mazari	15	UEPL	04-Sep-07	Sindh		5,298		21-Apr-17	Oil
743	Mazari	16	UEPL	04-Aug-17	Sindh		5,361		22-Aug-17	Oil
744	Mazari	17	UEPL	22-Jan-19	Sindh		4,254		09-Feb-19	Oil
745	Mazari	19	UEPL	18-Nov-18	Sindh		5,000		01-Dec-18	Oil
746	Mazari South	2	UTP	06-Nov-85	Sindh	62	4,221	Lower Goru	15-Nov-85	Oil
747	Mazari South	3	UTP	08-Jan-89	Sindh	62	4,462	Lower Goru	26-Jan-89	Oil
748	Mazari South	4	UTP	25-Sep-89	Sindh	65	4,250	Lower Goru	07-Oct-89	Oil
749	Mazari South	5	UTP	09-Oct-90	Sindh		4,413		21-Oct-90	Oil
750	Mazari South	6	UTP	27-Dec-93	Sindh		4,400	Lower Goru	07-Jan-94	INJ
751	Mazari South	7	UTP	22-Aug-99	Sindh	66	4,101	Lower Goru	31-Aug-99	Oil
752	Mazari South	8	UTP	06-Oct-00	Sindh	64	4,199	Lower Goru	15-Oct-00	Oil
753	Mazari South	9	UTP	26-Oct-00	Sindh	64	4,301	Lower Goru	02-Nov-00	Oil
754	Mazari South	10	UTP	30-Aug-01	Sindh		4,150	Lower Goru		Oil
755	Mazari South	11	BP	17-Jan-08	Sindh		7,187	Lower Goru	06-Feb-08	Oil
756	Mazari South	13	UEPL	16-Mar-13	Sindh		4,219			Oil
757	Mazari SWD	2	UTP	27-Mar-97	Sindh		2,201		09-Apr-97	Completed
758	Mazari SWD	3	BP	09-Apr-02	Sindh		2,360			Completed as WIW
759	Mazari South Deep	2	UTP	09-Oct-98	Sindh		5,974	Lower Goru	24-Oct-98	Oil
760	Mazari South Deep	3	UTP	01-Nov-98	Sindh		6,224	Lower Goru	26-Nov-98	Oil
761	Mazari South Deep	4	UTP	08-Jul-99	Sindh	64	6,201	Lower Goru	24-Jul-99	Oil
762	Mazari South Deep	5	UTP	04-Aug-99	Sindh	69	5,699	Lower Goru	16-Aug-99	Oil
763	Mazari South Deep	6	UEPL	02-Feb-02	Sindh	67	6,201	Lower Goru	09-Feb-02	Oil
764	Mazari South Deep	7	UEPL	19-Jul-06	Sindh	0	6,155	Lower Goru	01-Aug-06	Oil
765	Mazari South Deep	8	UEPL	19-Oct-08	Sindh		6,204	Lower Goru	28-Oct-08	Oil
766	Mazari South Deep	9	UEPL	24-May-09	Sindh		5,820	Lower Goru	31-May-09	Oil
767	Mazari South Deep	10	UEPL	05-Nov-10	Sindh		774	Kirthar	08-Dec-10	Plugged & Abd.
768	Mazari South Deep	11	UEPL	31-Mar-13	Sindh		6,434			Oil
769	Mazari South Deep	12	UEPL	18-May-13	Sindh		6,145			-
770	Mazari South Deep	13	UEPL	08-Aug-13	Sindh		6,269			Oil
771	Mazari South WIW	12	UEPL	29-Jun-09	Sindh		4,407	Lower Goru	05-Jul-09	Completed
772	Mazari WIW	18	UEPL	26-Oct-17	Sindh		6,026		08-Nov-17	Completed
773	Mehar	2	Petronas	25-Jun-05	Sindh		13,917	Pab	21-Nov-05	Gas Condensate
774	Mehar	3	Petronas	09-Jan-12	Sindh		13,005		26-Apr-12	Oil & Gas
775	Mehar	5	UEP Alpha	20-Apr-19	Sindh		11,324			Drilling
776	Mela	2	OGDC	28-May-07	KPK		17,474	Kuldana		Oil & Gas
777	Mela	3	OGDC	18-Jun-07	KPK		17,618			Oil
778	Mela	4	OGDC	03-Apr-13	KPK		4,514			-

Note: Shaded area indicate wells drilled in current year

Contd./...

APPRAISAL/DEVELOPMENT WELLS (Contd.)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
779	Mela	5	OGDC	26-Sep-16	KPK		12,999			Drilling
780	Mela	6	OGDCL	25-Sep-17	KPK		14,911			Drilling
781	Mela	7	OGDCL	28-May-19	KPK		4,469			Drilling
782	Messa Keswal	2	OGDC	27-Oct-91	Punjab	1,462	7,215	Salt Range	13-Sep-92	Oil
783	Messa-Keswal	3	OGDC	10-Oct-92	Punjab		7,382	Khewra S. st.	01-Apr-93	Oil
784	Messa-Keswal	4	OGDC	02-Aug-93	Punjab		7,270	Chorgali	03-Sep-94	Abandoned
785	Meyal	2P	POL	30-Sep-69	Punjab	1,309	13,599	Dhak Pass	02-Jan-71	Oil/Gas
786	Meyal	3P	POL	15-Jun-72	Punjab	1,378	12,719	Sakessar	21-Jul-73	Oil/Gas
787	Meyal	4P	POL	19-Nov-74	Punjab	1,411	12,640	Sakessar	15-Nov-75	Oil/Gas
788	Meyal	6P	POL	03-Dec-75	Punjab	1,345	13,424	Datta	16-Sep-76	Oil/Gas
789	Meyal	7P	POL	26-Dec-76	Punjab	1,421	14,211	Triassic	11-Jun-77	Oil/Gas
790	Meyal	5P	POL	06-Jan-79	Punjab	1,381	14,100	Datta	06-May-80	Oil/Gas
791	Meyal	8P	POL	10-May-80	Punjab	1,421	12,501	Sakessar	18-Jun-81	Oil/Gas
792	Meyal	9P	POL	14-Aug-81	Punjab	1,230	12,848	Upper Ranikot	03-Dec-81	Oil/Gas
793	Meyal	10P	POL	21-Jan-82	Punjab	1,296	14,120	Triassic	19-Nov-82	Oil/Gas
794	Meyal	11P	POL	04-Jun-82	Punjab	1,453	2,946		05-Mar-83	Abandoned
795	Meyal	12P	POL	12-Dec-82	Punjab	1,352	13,622	Sakessar	01-Jul-83	Oil/Gas
796	Meyal	13P	POL	31-Mar-84	Punjab	1,352	14,504	Datta	01-Jan-85	Oil/Gas
797	Meyal	14P	POL	02-Dec-89	Punjab	1,467	13,028	Sakessar	06-Jan-91	Oil/Gas
798	Meyal	15P	POL	31-Dec-91	Punjab	1,489	13,953	Nammal		INJ
799	Meyal	16	POL	08-Jul-96	Punjab		13,195	Chorgali	23-Mar-97	Oil
800	Meyal	17	POL	06-May-05	Punjab		13,661			Oil & Gas
801	Meyun Ismail	2	OGDC	02-Dec-91	Sindh	73	7,874	Lower Goru	01-Mar-92	Oil
802	Meyun Ismail	3	OGDC	17-Aug-97	Sindh		7,976	Lower Goru	29-Sep-97	Suspended
803	Meyun Ismail	4	OGDC	07-Aug-98	Sindh		7,525		22-Sep-98	Abandoned
804	Meyun Ismail Deep	2	BP	10-Oct-08	Sindh		11,112	Lower Goru	29-Nov-08	Oil
805	Miano	2	OMV	17-Aug-94	Sindh		11,640	Lower Goru	11-Dec-94	Gas
806	Miano	3	OMV	21-Dec-94	Sindh		11,352	Lower Goru	16-Mar-95	Abandoned
807	Miano	4	OMV	22-Aug-96	Sindh		11,572	Lower Goru	16-Oct-96	Abandoned
808	Miano	5	OMV	06-Jan-00	Sindh	216	11,155	Lower Goru	07-Feb-00	Gas
809	Miano	6	OMV	06-Aug-02	Sindh		10,942	Lower Goru	05-Sep-02	Plugged & Susp.
810	Miano	7	OMV	02-Mar-03	Sindh		11,250	Lower Goru	26-Apr-03	Gas
811	Miano	8	OMV	29-Jun-04	Sindh		11,358	Lower Goru		Gas
812	Miano	9	OMV	07-Oct-05	Sindh		11,106	Lower Goru	04-Nov-05	Gas
813	Miano	10	OMV	12-Jan-06	Sindh		11,844	Lower Goru	17-Feb-06	Gas
814	Miano	11	OMV	31-May-07	Sindh		11,155			Gas
815	Miano	12	OMV	14-Mar-09	Sindh		11,942			Gas
816	Miano	13	OMV	21-Dec-08	Sindh		11,286			Gas
817	Miano	14	OMV	27-Jul-10	Sindh		11,056	Lower Goru	01-Sep-10	Gas
818	Miano	15	OMV	27-Dec-11	Sindh		11,335		17-Feb-12	Gas
819	Miano TG HOR	16	OMV	12-Feb-14	Sindh		13,783		12-May-14	Drilling
820	Miano	17	OMV	14-Feb-15	Sindh		11,913	A Interval	12-Mar-15	Gas
821	Miano	18	OMV	13-Dec-14	Sindh		11,749		19-Jan-15	Gas
822	Miano	19	OMV	21-Oct-15	Sindh		11,483			Gas
823	Miano	20	OMV	09-Oct-16	Sindh		11,949		07-Oct-16	Gas
824	Miano	21	OMV	12-Sep-16	Sindh		11,565		18-Jan-17	Plugged & Abd.
825	Miano	22	OMV	19-Dec-18	Sindh		11,483		26-Jan-19	Gas
826	Miano	24	UEP Beta	18-Apr-19	Sindh		11,118			Plugged & Abd.
827	Miano	28	OMV	29-Sep-18	Sindh		12,320		07-Dec-18	Gas
828	Minwal	2	POL	12-Jul-08	Punjab		7,802			Plugged & Abd.
829	Mitha	2	UEP Alpha	03-Jun-19	Sindh		11,691			Drilling
830	Muban	2	UTP	02-Dec-98	Sindh		2,531	Lower Goru	08-Dec-98	Oil
831	Muban	3	UEPL	15-Dec-08	Sindh		2,713	Lower Goru	20-Dec-08	Oil
832	Muban	4	UEPL	15-Jul-13	Sindh		2,675	Lower Goru	23-Jul-13	Oil
833	Muban	WIW-5	UEPL	29-Jan-19	Sindh		2,747		10-Feb-19	Completed
834	Mulaki	2	UEPL	11-Sep-19	Sindh		8,710			Drilling
835	Missri	2	UEPL	21-Mar-09	Sindh		3,977	Lower Goru	30-Mar-09	Gas
836	Missri South	1	UEPL	08-Apr-08	Sindh		3,966	Lower Goru		Suspended
837	Missri South	2	UEPL	08-Apr-08	Sindh		4,052	Lower Goru		Oil & Gas
838	Missri South	3	UEPL	05-Nov-09	Sindh		4,072	Lower Goru	11-Nov-09	Oil & Gas

Note: Shaded area indicate wells drilled in current year

Contd./...

APPRAISAL/DEVELOPMENT WELLS (Contd.)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
839	Missri South SWD	1	UEPL	14-Jun-12	Sindh		1,614			Completed
840	Missri SWD	1	UEPL	12-Nov-09	Sindh		1,530			Completed
841	Murid	2	UEPL	14-Apr-14	Sindh		5,091	Lower Goru	20-Apr-14	Oil
842	Murid	3	UEPL	28-Apr-14	Sindh		5,304		05-Sep-14	Oil
843	Nashpa	2	OGDCL	03-Sep-10	KPK		14,327			-
844	Nashpa	3	OGDCL	30-Mar-11	KPK		7,881			-
845	Nashpa	4	OGDCL	13-Jul-12	KPK		16,552			-
846	Nashpa	5-A	OGDCL	06-Apr-19	KPK		9,724			Drilling
847	Nashpa	6	OGDCL	29-Dec-14	KPK		12,011			Drilling
848	Nashpa	7	OGDCL	01-Jul-15	KPK		16,030			Oil & Gas
849	Nashpa	8	OGDCL	16-Mar-17	KPK		11,220			Drilling
850	Nashpa	9	OGDCL	17-Sep-18	KPK		1,158			Drilling
851	Naimat Basal	2	UEPL	02-Jan-10	Sindh		11,821		26-Feb-10	Gas
852	Naimat SWD	1	UEPL	23-Mar-13	Sindh		4,640			Completed
853	Naimat SWD	2	UEPL	05-Feb-16	Sindh		4,877			Completed
854	Naimat West	2	UEPL	07-May-13	Sindh		10,988			-
855	Naimat West	3	UEPL	06-Jun-13	Sindh		5,040			-
856	Naimat West	4	UEPL	25-Mar-14	Sindh		13,100	Sembar	09-May-14	Gas
857	Naimat West	5	UEPL	05-Oct-15	Sindh		10,997			Gas
858	Nakurji	2	UEPL	29-Dec-01	Sindh	50	6,063	Lower Goru	03-Jan-00	Gas
859	Nandpur	2	OGDC	05-Oct-84	Punjab	466	6,975	Kingriali	25-Dec-84	Gas
860	Nandpur	3	OGDC	17-Dec-85	Punjab	477	6,949	Kingriali	31-May-86	Gas
861	Nandpur	4	OGDC	02-Jul-86	Punjab	474	6,991	Kingriali	19-Oct-86	Gas
862	Nandpur	5	OGDC	17-Mar-87	Punjab	463	7,054	Kingriali	21-Jul-87	Gas
863	Nandpur	6	OGDC	12-Mar-91	Punjab	461	6,932		08-Jun-91	Gas
864	Nandpur	7	OGDC	08-May-92	Punjab	471	6,814	Datta	27-Jul-92	Gas
865	Nandpur	8	OGDC	23-Sep-92	Punjab		5,959	Chichali	18-Nov-92	Gas
866	Nandpur	9	OGDCL	28-Mar-02	Punjab	0	6,946	Samana Suk		Gas
867	Nandpur	11	OGDCL	29-Jan-10	Punjab		6,234	Samana Suk		Gas
868	Nari	2	UTP	27-Feb-86	Sindh	44	6,492	Lower Goru	27-Feb-86	Oil
869	Nari	3	UTP	01-Dec-93	Sindh		6,400	Lower Goru	17-Dec-93	Gas
870	Nari	4	BP	29-May-10	Sindh		8,432	Lower Goru	18-Jun-10	Plugged & Abd.
871	Pab	1	PPL	23-Apr-00	Baloch.	804	7,612	Pab		Gas
872	Pab	2	PPL	02-Dec-99	Baloch.	741		Pab		Gas
873	Palli	2	OGDCL	15-Mar-16	Sindh		9,268			Oil
874	Palli	3	OGDCL	04-Dec-17	Sindh		9,255			Plugged & Abd.
875	Paniro	3	UTP	28-Nov-89	Sindh	59	8,399	Lower Goru	05-Dec-89	Abandoned
876	Paniro	4	UTP	29-Sep-96	Sindh		2,501	Lower Goru	07-Oct-96	Abandoned
877	Paniro	5	UTP	14-Dec-98	Sindh		2,402	Lower Goru	19-Dec-98	Oil
878	Paniro	6	UTP	25-Dec-98	Sindh		2,402	Lower Goru	30-Dec-98	Oil
879	Paniro	7	UTP	08-Sep-99	Sindh	61	2,402	Lower Goru	14-Sep-99	Oil
880	Paniro WIW	8	UEPL	11-Aug-13	Sindh		2,056	Lower Goru	18-Aug-13	Completed
881	Paniro	9	UEPL	01-Aug-13	Sindh		2,450	Lower Goru	05-Aug-13	Oil
882	Panjpir	2	OGDC	25-Apr-85	Punjab	463	6,237	Shinwari	11-Jul-85	Gas
883	Panjpir	3	OGDC	27-Jan-86	Punjab	470	6,299	Shinwari	07-Apr-86	Gas
884	Panjpir	4	OGDC	03-May-86	Punjab	478	6,299	Shinwari	12-Jul-86	Gas
885	Panjpir	5	OGDC	08-Dec-96	Punjab		6,234	Shinwari	31-Jan-97	Suspended
886	Panjpir	6	OGDC	29-Mar-07	Punjab		7,123	Samana Suk		Gas
887	Panjpir	7	OGDC	07-May-08	Punjab		6,900	Samana Suk		Gas
888	Pariwali	2	POL	20-Dec-97	Punjab		16,182	Lockhart		Gas/Cond.
889	Pariwali	3	POL	22-Oct-99	Punjab	1213	16,140			Oil/Gas
890	Pariwali	4	POL	09-May-01	Punjab	1791	16,329			Oil/Gas
891	Pariwali	5	POL	03-Jul-04	Punjab		16,201			Oil & Gas
892	Pariwali	6	POL	14-Jan-06	Punjab		15,725			Oil & Gas
893	Pariwali	7	POL	23-Nov-07	Punjab		16,440			Gas/Cond.
894	Pasahki	2	OGDC	13-Jun-90	Sindh	73	7,060	Lower Goru	22-Aug-90	Oil
895	Pasahki	3	OGDCL	18-Dec-97	Sindh		6,742	Lower Goru	21-Mar-98	Oil
896	Pasahki	4	OGDCL	09-Dec-01	Sindh	78	6,916	Lower Goru		Oil
897	Pasahki	5	OGDCL	07-May-08	Sindh		0	Lower Goru		Gas/Cond.
898	Pasahki	6	OGDCL	01-Jan-09	Sindh		6,644	Lower Goru	05-Mar-09	Oil

Note: Shaded area indicate wells drilled in current year

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APPRAISAL/DEVELOPMENT WELLS (Contd.)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
899	Pasakhi	7	OGDCL	02-Apr-11	Sindh		6,693			Oil
900	Pasakhi	8	OGDCL	14-Mar-12	Sindh		7,231	Lower Goru	16-May-12	Suspended
901	Pasakhi	9	OGDCL	01-Jun-12	Sindh		4,915			-
902	Pasakhi	10	OGDCL	28-Dec-14	Sindh		7,054	Lower Goru	17-Feb-15	Oil
903	Pasakhi Deep	2	OGDCL	07-Oct-08	Sindh		10,833		22-Feb-09	Gas
904	Pasakhi Deep	3	OGDCL	21-Jan-10	Sindh		10,827	Lower Goru		Gas
905	Pasakhi Deep	4	OGDCL	16-Mar-14	Sindh		11,102			Drilling
906	Pasakhi Deep	5	OGDCL	13-Oct-14	Sindh		11,385	Sembar	19-Jan-15	Gas Cond.
907	Pasakhi Deep	6	OGDCL	18-Jan-16	Sindh		10,827			Gas Cond.
908	Pasakhi Deep	7	OGDCL	18-Jun-17	Sindh		2,192			Drilling
909	Pasakhi North	3	OGDCL	20-Nov-17	Sindh		6,969		18-Jan-18	Oil
910	Pasakhi North East	2	OGDCL	15-Oct-18	Sindh		7,087		01-Jan-19	Oil
911	Pasakhi West Deep	2	OGDCL	14-Feb-19	Sindh		11,490			Testing
912	Pindori	2	OXY	09-Mar-92	Punjab	1,602	13,894		16-Nov-92	Oil
913	Pindori	3	POL	08-Oct-94	Punjab		13,625	Lockhart	15-Apr-95	Oil
914	Pindori	4	POL	18-Dec-98	Punjab		13,245		05-Jul-99	Oil&Gas
915	Pindori	5	POL	11-Jul-00	Punjab	1,578	12,720			Plugged & Abdnd.
916	Pindori	5A	POL	21-Apr-02	Punjab		13,878			Oil
917	Pindori	6	POL	16-Sep-04	Punjab		14,275			Oil & Gas
918	Pindori	7	POL	16-Nov-07	Punjab		7,132			Plugd. & Abd.
919	Pindori	8	POL	25-Aug-09	Punjab		14,186			Plugd. & Abd.
920	Pindori	10	POL	28-Jan-19	Punjab		4,721			Drilling
921	Pindori WIW	1	POL	13-Jan-06	Punjab		14,215			Completed
922	Pindori WIW	2	POL	05-Apr-06	Punjab		7,556			Plugd. & Adb.
923	Pindori WIW	2A	POL	31-Dec-06	Punjab		13,924			Completed as WIW
924	Pir	2	UTP	11-Oct-96	Sindh		8,222	Lower Goru	05-Nov-96	Gas
925	Pir Apan	2	UEPL	21-Jul-12	Sindh		7,464	Lower Goru	03-Oct-12	Oil
926	Pirkoh	2	OGDC	01-Sep-81	Baloch.	393	8,136	Mughalkot	13-Aug-82	Abandoned
927	Pirkoh	4	OGDC	15-May-82	Baloch.	3,553	8,166	Mughalkot	04-Aug-83	Gas
928	Pirkoh	3	OGDC	08-Aug-82	Baloch.	3,653	7,890		25-Dec-82	Gas
929	Pirkoh	2A	OGDC	11-Mar-83	Baloch.	3,667	7,887	Pab	17-Mar-84	Gas
930	Pirkoh	5	OGDC	23-Oct-83	Baloch.	3,692	7,865	Pab	27-Feb-84	Gas
931	Pirkoh	6	OGDC	01-Mar-84	Baloch.	3,626	8,048	Pab	10-Nov-84	Gas
932	Pirkoh	7	OGDC	01-Jun-84	Baloch.	3,646	7,907	Pab	10-Aug-84	Gas
933	Pirkoh	8	OGDC	27-Oct-84	Baloch.	3,576	8,038	Pab	05-Jan-85	Gas
934	Pirkoh	9	OGDC	10-Feb-85	Baloch.	3,560	8,202	Mughalkot	28-Apr-85	Gas
935	Pirkoh	10	OGDC	03-Jun-85	Baloch.	3,601	7,874	Pab	15-Sep-85	Gas
936	Pirkoh	11	OGDC	04-Nov-85	Baloch.	3,484	7,399	Pab	16-Mar-86	Gas
937	Pirkoh	12	OGDC	30-Mar-86	Baloch.	3,479	7,881	Pab	06-Jul-86	Gas
938	Pirkoh	13	OGDC	26-Jul-86	Baloch.	3,470	7,710	Pab	23-May-87	Gas
939	Pirkoh	16	OGDC	25-Sep-86	Baloch.	3,361	8,074	Pab	27-Feb-87	Gas
940	Pirkoh	15	OGDC	22-Dec-86	Baloch.	3,210	8,960	Pab	12-May-87	Gas
941	Pirkoh	14	OGDC	02-May-87	Baloch.	3,395	8,953	Pab	01-Sep-87	Gas
942	Pirkoh	17	OGDC	22-May-87	Baloch.	3,342	7,838	Pab	16-Jul-87	Gas
943	Pirkoh	18	OGDC	31-Jul-87	Baloch.	2,974	8,773	Pab	15-Sep-87	Gas
944	Pirkoh	19	OGDC	25-Sep-87	Baloch.	3,501	8,970	Pab	15-Dec-87	Gas
945	Pirkoh	21	OGDC	04-Oct-87	Baloch.	3,542	7,792	Pab	11-Dec-87	Gas
946	Pirkoh	20	OGDC	31-Dec-87	Baloch.	3,638	7,858	Pab	15-Apr-88	Gas
947	Pirkoh	23	OGDC	03-Mar-88	Baloch.	3,513	7,720	Pab	03-May-88	Gas
948	Pirkoh	24	OGDC	04-May-88	Baloch.	3,552	7,809	Pab	20-Jun-88	Gas
949	Pirkoh	22	OGDC	10-May-88	Baloch.	3,399	7,621	Pab	15-Jun-88	Gas
950	Pirkoh	26	OGDC	26-Jun-88	Baloch.	3,271	7,759	Pab	19-Aug-88	Gas
951	Pirkoh	25	OGDC	09-Jul-88	Baloch.	3,338	7,615	Pab	25-Aug-88	Gas
952	Pirkoh	27	OGDC	30-Aug-88	Baloch.	3,523	7,707	Pab	19-Nov-88	Gas
953	Pirkoh	28	OGDC	16-Sep-88	Baloch.	3,617	7,874	Pab	08-Jan-89	Gas
954	Pirkoh	29	OGDC	26-Nov-88	Baloch.	3,301	1,824	Pab	04-Jan-89	Abandoned
955	Pirkoh	31	OGDC	18-Jan-89	Baloch.	2,994	7,037	Pab	20-Mar-89	Gas
956	Pirkoh	30	OGDC	01-Feb-89	Baloch.	3,626	7,765	Pab	28-Jun-89	Gas
957	Pirkoh	29A	OGDC	03-Apr-89	Baloch.	3,310	7,549	Pab	01-Sep-89	Gas
958	Pirkoh	32	OGDC	01-Jul-89	Baloch.	3,513	1,419	Pab	23-Nov-89	Abandoned

Note: Shaded area indicate wells drilled in current year

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APPRAISAL/DEVELOPMENT WELLS (Contd.)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
959	Pirkoh	33	OGDC	29-Nov-89	Baloch.	2,896	2,203	Pab	11-Feb-90	Gas
960	Pirkoh	34	OGDC	12-Dec-89	Baloch.	3,487	7,556	Pab	26-Jun-90	Gas
961	Pirkoh	35	OGDC	23-Feb-90	Baloch.	2,604	7,110	Mughalkot	12-Apr-90	Gas
962	Pirkoh	36	OGDC	24-Apr-90	Baloch.	2,798	6,998	Pab	06-Jun-90	Gas
963	Pirkoh	37	OGDC	25-Jun-90	Baloch.	3,632	7,710	Pab	19-Aug-90	Gas
964	Pirkoh	32A	OGDC	14-Jul-90	Baloch.	3,512	7,710	Pab	26-Oct-90	Gas
965	Pirkoh	38	OGDC	04-Sep-90	Baloch.	2,820	7,090	Pab	15-Oct-90	Gas
966	Pirkoh	39	OGDC	31-Oct-90	Baloch.	2,791	6,791	Pab	02-Dec-91	Gas
967	Pirkoh	40	OGDC	26-Nov-90	Baloch.	3,307	7,878	Pab	12-Jan-91	Gas
968	Pirkoh	41	OGDC	12-Dec-90	Baloch.	3,222	6,890	Pab	07-Jan-91	Gas
969	Pirkoh	42	OGDC	24-Jan-91	Baloch.	3,288	610	Sirki	23-Feb-91	Gas
970	Pirkoh	43	OGDC	25-Feb-91	Baloch.	3,310	7,874	Pab	06-May-91	Gas
971	Pirkoh	44-A	OGDC	09-Jun-91	Baloch.		7,188	Pab	12-Aug-91	Gas
972	Pirkoh	45	OGDC	05-Jun-91	Baloch.	3,243	7,874	Pab	24-Aug-91	Gas
973	Pirkoh	44	OGDC	11-May-91	Baloch.	2,656	1,526	Ghazij	24-Aug-91	Abandoned
974	Pirkoh	46	OGDC	26-Aug-91	Baloch.	2,397	6,660	Pab	11-Oct-91	Gas
975	Pirkoh	47	OGDC	03-Oct-91	Baloch.	2,758	7,054	Pab	17-Nov-91	Gas
976	Pirkoh	48	OGDC	23-Oct-91	Baloch.	3,026	7,382	Pab	18-Dec-91	Gas
977	Pirkoh	49	OGDC	14-Dec-91	Baloch.	3,379	7,812	Pab	04-Feb-92	Gas
978	Pirkoh	50	OGDC	04-Jan-92	Baloch.	3,361	7,644	Pab	25-Feb-92	Gas
979	Pirkoh	51	OGDC	13-Mar-92	Baloch.	3,109	7,612	Pab	08-May-92	Gas
980	Pirkoh	52	OGDC	26-Mar-92	Baloch.	3,233	7,543	Pab	20-May-92	Gas
981	Pirkoh	53	OGDC	09-Jun-92	Baloch.	2,272	7,119	Pab	01-Aug-92	Gas
982	Pirkoh	54	OGDC	22-Dec-15	Baloch.		7,162		10-Mar-16	Gas
983	Qadirpur	2	OGDC	05-Apr-90	Sindh	249	4,622	Sui Main Ls.	18-May-90	Gas
984	Qadirpur	3	OGDC	24-Apr-91	Sindh	259	4,610	Sui Main Ls.	04-Jun-91	Gas
985	Qadirpur	4	OGDC	20-May-91	Sindh	261	4,606	Sui Main Ls.	18-Jun-91	Gas
986	Qadirpur	5	OGDC	15-Jan-93	Sindh		4,662	Sui Main Ls.	04-Mar-93	Gas
987	Qadirpur	6	OGDC	22-May-93	Sindh		4,626	Sui Main Ls.	08-Jul-93	Gas
988	Qadirpur Water	1	OGDC	26-Oct-94	Sindh		2,297	Drazinda	14-Nov-94	Water Injection
989	Qadirpur Water	2	OGDC	29-Nov-94	Sindh		2,297	Drazinda	16-Dec-94	Water Injection
990	Qadirpur	7	OGDC	09-Jan-95	Sindh		4,577	Sui Main Ls.	24-Feb-95	Gas
991	Qadirpur	8	OGDC	15-Jan-95	Sindh		6,263	Sui Main Ls.	25-Feb-95	Gas
992	Qadirpur	9	OGDC	11-Mar-95	Sindh		4,577	Sui Main Ls.	11-May-95	Gas
993	Qadirpur	10	OGDC	16-Mar-95	Sindh		4,554	Sui Main Ls.	07-May-95	Gas
994	Qadirpur	11	OGDC	08-Apr-95	Sindh		4,613	Sui Main Ls.	09-Jun-95	Gas
995	Qadirpur	12	OGDC	19-Apr-95	Sindh		6,115	Sui Main Ls.	19-Jun-95	Gas
996	Qadirpur	13	OGDC	18-Nov-95	Sindh		4,531	Sui Main Ls.	08-Jan-96	Gas
997	Qadirpur	14	OGDC	25-Nov-95	Sindh		6,122	Sui Main Ls.	29-Jan-96	Gas
998	Qadirpur	15	OGDC	03-Mar-96	Sindh		5,863	SML	15-Jun-96	Gas
999	Qadirpur	16	OGDC	05-Jan-97	Sindh		4,528	SML	11-Mar-97	Gas
1000	Qadirpur	17	OGDCL	04-Mar-98	Sindh		4,593	SML	04-May-98	Temp. Abandoned
1001	Qadirpur	19	OGDCL	23-Jun-00	Sindh	261	5,755	Sui Main Ls.		Gas
1002	Qadirpur	18	OGDCL	03-Oct-01	Sindh	271	6,286	Ghazij		Plugged & Abdnd.
1003	Qadirpur	20	OGDCL	19-May-10	Sindh		1,635			-
1004	Qadirpur	21	OGDCL	30-Jun-03	Sindh		5,538			Gas
1005	Qadirpur	22	OGDCL	23-Nov-03	Sindh		5,774		02-Apr-04	Gas
1006	Qadirpur	25	OGDCL	16-Apr-04	Sindh		6,096		10-Jun-04	Gas
1007	Qadirpur Habib Rahi	1	OGDC	14-May-96	Sindh		3,245	Ghazij	08-Jul-96	Abandoned
1008	Qadirpur Habib Rahi	2	OGDCL	30-May-08	Sindh		4,806	Habib Rahi		Gas
1009	Qadirpur Habib Rahi	3	OGDCL	18-Nov-08	Sindh		5,328			Gas
1010	Qadirpur Habib Rahi	4	OGDCL	14-Jan-09	Sindh		4,921			Gas
1011	Qadirpur Habib Rahi	5	OGDCL	13-Feb-09	Sindh		4,974			Gas
1012	Qadirpur Habib Rahi	6	OGDCL	19-Jun-12	Sindh		4,400			-
1013	Qadirpur Habib Rahi	7	OGDCL	21-Jun-13	Sindh		2,943			-
1014	Qadirpur Habib Rahi	8	OGDCL	19-Mar-14	Sindh		5,259			Gas
1015	Qadirpur Habib Rahi	9	OGDCL	15-Nov-15	Sindh		6,135			Gas
1016	Qadirpur Habib Rahi	10	OGDCL	09-Jan-16	Sindh		6,578			Gas
1017	Qadirpur Habib Rahi	11	OGDCL	17-Apr-16	Sindh		10,112			Gas
1018	Qadirpur Habib Rahi	13	OGDCL	12-Jan-18	Sindh		9,964		31-Mar-18	Gas

Note: Shaded area indicate wells drilled in current year

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APPRAISAL/DEVELOPMENT WELLS (Contd.)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
1019	Qadirpur Habib Rahi	14	OGDCL	21-Sep-17	Sindh		5,896		27-Oct-17	Gas
1020	Qadirpur West	X-1	OGDC	18-Mar-93	Sindh		4,724	SML	11-May-93	Abandoned
1021	Qadirpur	24	OGDCL	05-Nov-04	Sindh		4,708	SML	26-Dec-04	Gas
1022	Qadirpur	23	OGDCL	06-Nov-04	Sindh		9,062			Gas
1023	Qadirpur	26	OGDCL	20-Jan-05	Sindh		8,796			Gas
1024	Qadirpur	20	OGDCL	14-Apr-05	Sindh		6,266			Gas
1025	Qadirpur	27	OGDCL	28-Jun-05	Sindh		10,171			Gas
1026	Qadirpur	28	OGDCL	30-Nov-05	Sindh		5,974			Gas
1027	Qadirpur	29	OGDCL	13-Jun-07	Sindh		4,498			Gas
1028	Qadirpur	30	OGDCL	17-Oct-07	Sindh		4,511			Gas
1029	Qadirpur	31	OGDCL	12-Mar-08	Sindh		4,587	SML		Gas
1030	Qadirpur	32	OGDCL	12-Apr-08	Sindh		4,836	SML		Gas
1031	Qadirpur	33	OGDCL	18-May-08	Sindh		4,895	SML		Gas
1032	Qadirpur	34	OGDCL	26-Jul-08	Sindh		5,627	SML	30-Aug-08	Gas
1033	Qadirpur	35	OGDCL	09-Nov-08	Sindh		4,462	SML	06-Dec-08	Gas
1034	Qadirpur	36	OGDCL	18-Jan-09	Sindh		4,462	SML	17-Feb-09	Gas
1035	Qadirpur	37	OGDCL	03-Apr-09	Sindh		4,472			Gas
1036	Qadirpur	38	OGDCL	23-Apr-09	Sindh		5,495			Gas
1037	Qadirpur	39	OGDCL	19-Jun-09	Sindh		5,715	SML		Gas
1038	Qadirpur	41	OGDCL	18-Jul-10	Sindh		5,390	Sui Upper L. St.	30-Oct-10	Gas
1039	Qadirpur	42	OGDCL	26-Apr-11	Sindh		7,556			Gas
1040	Qadirpur	43	OGDC	01-Oct-11	Sindh		9,186		07-Dec-11	Gas
1041	Qadirpur	44	OGDC	17-Dec-11	Sindh		11,155	SML	18-Apr-12	Gas
1042	Qadirpur	45	OGDC	29-Apr-12	Sindh		6,102			-
1043	Qadirpur	46	OGDC	28-Sep-12	Sindh		8,061			Gas
1044	Qadirpur	47	OGDC	04-May-13	Sindh		9,281			-
1045	Qadirpur	48	OGDC	10-Mar-13	Sindh		5,919		22-May-13	Gas
1046	Qadirpur	49	OGDC	05-Dec-12	Sindh		10,774		26-Apr-13	Gas
1047	Qadirpur HOR	50	OGDC	03-Aug-13	Sindh		6,079	SML	16-Sep-13	Gas
1048	Qadirpur H Rahi	12	OGDC	30-Mar-17	Sindh		9,892		20-Jun-17	Gas
1049	Qadirpur	51	OGDC	31-Jan-14	Sindh		6,480			Gas
1050	Qadirpur H	52	OGDC	11-Dec-13	Sindh		5,833	Sui Upper Limest.	19-Jan-14	Gas
1051	Qadirpur	53	OGDC	17-Jun-14	Sindh		4,035			Drilling
1052	Qadirpur	54	OGDC	26-Feb-16	Sindh		5,066			Gas
1053	Qadirpur	55	OGDC	23-Aug-15	Sindh		5,850			Gas
1054	Qadirpur	56	OGDC	21-Nov-16	Sindh		6,496		01-Jan-17	Gas
1055	Qadirpur	57	OGDC	13-Jan-17	Sindh		6,453		12-Mar-17	Gas
1056	Qadirpur	58	OGDC	30-Jun-17	Sindh		5,781			Drilling
1057	Qadirpur	59	OGDC	16-Jun-18	Sindh		3,301			Drilling
1058	Qadirpur	60	OGDC	11-Nov-18	Sindh		6,434		20-Jan-19	Gas
1059	Qadirpur	61	OGDC	03-Feb-19	Sindh		6,079		16-Apr-19	Gas
1060	Rahim	3	UEPL	11-Jan-18	Sindh		11,999		18-Apr-18	Oil & Gas
1061	Rahim	4	UEPL	04-Mar-19	Sindh		11,178		20-Apr-19	Oil & Gas
1062	Raj	2	UEPL	22-Oct-15	Sindh		8,504			Gas
1063	Rajani	2	UEPL	21-Dec-14	Sindh		13,848	Lower Basal Sand	13-Feb-15	Gas
1064	Rajani	4	UEPL	20-Jul-15	Sindh		14,278			Gas
1065	Rajani	5	UEPL	21-Mar-16	Sindh		14,049			Gas
1066	Rajani	6	UEPL	09-Jan-16	Sindh		13,303		18-Oct-16	Gas
1067	Rajani	7	UEPL	01-Aug-17	Sindh		13,806		03-Mar-17	Gas
1068	Rajani	8	UEPL	14-Mar-17	Sindh		17,764		15-May-17	Gas
1069	Rajani	9	UEPL	06-Feb-18	Sindh		13,687		16-Apr-18	Gas
1070	Rajani	10	UEPL	10-Aug-18	Sindh		16,073		25-Sep-18	Gas
1071	Rajani	12	UEPL	07-Feb-19	Sindh		13,263		31-Mar-19	Gas
1072	Rajian	2	OGDC	05-Oct-94	Punjab		12,077	Khewra S. st.	07-Jun-95	Oil
1073	Rajian	3	OGDC	04-Nov-95	Punjab		4,511	Murree	20-May-96	Abandoned
1074	Rajian	3A	OGDC	27-Jul-96	Punjab		11,982	Khewra S. st.	13-Mar-97	Oil
1075	Rajian	4	OGDC	11-Mar-01	Punjab	1791	12,490	Khewra S. st.		Plugd & Abd.
1076	Rajian	4A	OGDCL	14-Aug-06	Punjab		12,598	Khewra S. st.	03-Feb-07	Oil
1077	Rajian	5	OGDCL	30-Dec-09	Punjab		12,018	Khewra S. st.		Oil
1078	Rajian	6	OGDCL	14-Jul-11	Punjab		12,139	Khewra	15-Jan-12	Oil

Note: Shaded area indicate wells drilled in current year

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APPRAISAL/DEVELOPMENT WELLS (Contd.)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
1079	Rajian	7	OGDCL	09-Nov-12	Punjab		12,139			Temp. Suspended
1080	Rajian	8	OGDCL	29-Oct-13	Punjab		12,336			Drilling
1081	Rajian	9	OGDCL	25-Apr-16	Punjab		12,270			Oil
1082	Rajian	10	OGDCL	12-May-16	Punjab		12,156			Drilling
1083	Ratana	2	OXY	18-Apr-92	Punjab	1263	16,379	Lockhart	21-Jan-93	Gas/Cond.
1084	Ratana	3	OXY	04-Jun-94	Punjab		17,405	Patala	27-Oct-95	Gas/Cond.
1085	Ratana	4	OPII	04-Jul-11	Punjab		18,100			-
1086	Rawat	2	UEPL	10-Nov-16	Sindh		11,703		01-Dec-16	Temp. Suspended
1087	Rehman	2	POGC	20-May-16	Sindh		9,416			Gas
1088	Rehman	3	POGC	17-Nov-16	Sindh		10,400		15-Apr-17	Gas
1089	Rehman	4	POGC	14-Nov-17	Sindh		9,088		19-Feb-18	Gas
1090	Rehman	5	POGC	16-Sep-18	Sindh		10,597		04-Apr-19	Gas
1091	Rehman	6	POGC	21-Apr-19	Sindh		8,327			Drilling
1092	Rehmat	2	Petronas	02-Feb-03	Sindh		12,024			Gas
1093	Rehmat	3	Petronas	11-Mar-07	Sindh		12,712			Gas
1094	Rehmat	4	OMV Maurice	07-Jun-13	Sindh		10,938			-
1095	Rehmat	St-1A	Petronas	09-Jun-11	Sindh		11,129			Temp. Suspended
1096	Resham	2	OGDCL	28-Jul-04	Sindh	120.37	10,499	Lower Goru		Plugged & Abd.
1097	Reti	2	OGDCL	08-Feb-15	Sindh		2,310	Sirki	28-Feb-15	Gas
1098	Rind	2	UTP	17-May-97	Sindh		3,350	Lower Goru	26-May-97	Abandoned
1099	Rind	3	BP	24-Mar-02	Sindh	0	3,300	Lower Goru	29-Mar-02	Completed as WIW
1100	Rind	4	BP	10-Dec-11	Sindh		1,797	Lower Goru	18-Dec-11	Oil
1101	Rizq	2	POGC	05-Jan-17	Sindh		6,890			Drilling
1102	Rodho	3	OGDC	30-May-85	Punjab	1819	5,292	Pab	08-Dec-85	Abandoned
1103	Saand	2	OGDCL	29-Jun-14	Sindh		105			Drilling
1104	Sachu	1	UEPL	09-Oct-19	Sindh		12,300		30-Jan-19	Temp. Suspended
1105	Sadkal	2	OGDC	24-Jun-92	Punjab	1,541	14,928	Lockhart	15-Mar-93	Condensate
1106	Sadkal	3	OGDC	30-Jun-93	Punjab		15,092	Lockhart	18-Apr-94	Condensate
1107	Sadkal	4	OGDC	29-Apr-94	Punjab		12,976	Margalla	24-Jan-95	Condensate
1108	Sadkal	5	OGDC	14-Sep-98	Punjab		12,047	Margalla	03-Jul-99	Oil&Gas
1109	Sadiq	2	PEL	26-Aug-08	Sindh		3,622	SML	23-Sep-08	Gas
1110	Sakhi	2	UTP	20-Nov-97	Sindh		7,051	Lower Goru	26-Dec-97	Abandoned
1111	Sakhi (WIW)	3	UTP	28-Oct-97	Sindh		7,201	Lower Goru	19-Nov-97	INJ
1112	Sakhi (WIW)	4	UTP	30-Sep-98	Sindh		7,100	Lower Goru	24-Oct-98	Oil
1113	Sakhi	5	UTP	10-Nov-99	Sindh	77	6,831	Lower Goru	25-Nov-99	Oil
1114	Sakhi	6	BP	06-Sep-08	Sindh		7,283	Lower Goru	05-Oct-08	Gas
1115	Sakhi	7	BP	20-Aug-09	Sindh		7,282	Lower Goru	05-Sep-09	Oil
1116	Sakhi South Deep	2	BP	08-May-07	Sindh		9,803	Lower Goru	12-Jun-07	Gas
1117	Saleh WSW	1	UEPL	18-Feb-16	Sindh		4,273			Completed
1118	Saleh	2	UEPL	07-Dec-14	Sindh		10,505		07-Jan-15	Oil
1119	Saleh WIW	4	UEPL	31-Jan-16	Sindh		10,397			Completed
1120	Saleh	5	UEPL	09-May-19	Sindh		10,568			Drilling
1121	Saman	2	UEPL	09-Apr-15	Sindh		13,179		11-May-15	Gas Cond.
1122	Saqib	2	Petronas	29-Aug-09	Sindh		11,647	Lower Goru	21-Sep-09	Plugged & Abd.
1123	Sara	2	Tullow	19-Jun-96	Sindh		3,848	Ghazij	07-Jul-96	Abandoned
1124	Sara	3	Tullow	21-Sep-96	Sindh		3,701	Goru	05-Oct-96	Abandoned
1125	Sara	4	Spud Energy	29-Nov-15	Sindh		3,675			Gas
1126	Sara West	2	OGDCL	03-Oct-07	Sindh		8,858	Lower Goru	15-Nov-07	Suspended
1127	Sara West	3	OGDCL	14-Dec-07	Sindh		8,858	Lower Goru	11-Mar-07	Gas
1128	Sara West	4	OGDCL	20-May-13	Sindh		6,627			-
1129	Sari	3	OGDC	06-Feb-66	Sindh	853	6,083	Lower Ranikot	01-Mar-67	Gas
1130	Sari	2	OGDC	08-Mar-66	Sindh	863	7,247	Lower Ranikot	10-Apr-66	Gas
1131	Sari	4	OGDC	22-Jun-74	Sindh	798	5,095	Lower Ranikot	16-Apr-76	Abandoned
1132	Sari	5	OGDC	02-Sep-89	Sindh	879	5,617	Lower Ranikot	30-Nov-89	Abandoned
1133	Sawan	2	OMV	06-Oct-98	Sindh		11,447	Lower Goru	07-Dec-98	Suspended
1134	Sawan	3	OMV	09-May-01	Sindh		11,975	Lower Goru		Gas
1135	Sawan	4	OMV	27-May-02	Sindh		11,089	Lower Goru		Gas
1136	Sawan WDW	1	OMV	19-Sep-02	Sindh		3,963	SML	28-Sep-02	Completed
1137	Sawan	7	OMV	07-Dec-02	Sindh		11,155	Lower Goru	05-Feb-03	Gas
1138	Sawan	8	OMV	16-Feb-03	Sindh		11,253	Lower Goru	22-Apr-03	Gas

Note: Shaded area indicate wells drilled in current year

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APPRAISAL/DEVELOPMENT WELLS (Contd.)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
1139	Sawan	9	OMV	29-Apr-03	Sindh		11,335	Lower Goru		Gas
1140	Sawan	5	OMV	19-Sep-04	Sindh	222	11,056	Lower Goru		Gas
1141	Sawan	6	OMV	16-Mar-06	Sindh		10,958	Lower Goru	14-Apr-06	Gas
1142	Sawan	10	OMV	04-Jun-06	Sindh		11,450			Gas
1143	Sawan	11	OMV	04-Nov-07	Sindh		11,204			Gas
1144	Sawan	12	OMV	24-Mar-10	Sindh		11,155			Temp. Suspended
1145	Sawan	13	OMV	01-Jan-08	Sindh		11,319	Lower Goru		Gas
1146	Sawan	14	OMV	25-Oct-08	Sindh		11,352			Gas
1147	Sawan	15	OMV	31-May-09	Sindh		11,352	Lower Goru		Gas
1148	Shaheen	2	MPCL	26-Apr-19	Sindh		3,855			Gas
1149	Sharf	2	PPL	31-Mar-16	Sindh		11,919			Gas Cond.
1150	Shekhano	2	UEPL	06-Dec-12	Sindh		4,677		31-Dec-12	Oil/Gas
1151	Shekhano	3	UEPL	25-Apr-13	Sindh		5,736			Oil
1152	Soghri	2	OGDCL	25-Jun-15	Punjab		3,825			Drilling
1153	Sohrab Deep	3	UEPL	25-Jul-14	Sindh		12,520			Gas
1154	Sohrab Deep	4	UEPL	29-Mar-15	Sindh		12,766	Lower Basal Sand	08-May-15	Gas Cond.
1155	Sohrab Deep	7	UEPL	26-Jun-18	Sindh		4,557			Drilling
1156	Sono	2	OGDC	09-May-88	Sindh	68	7,573	Lower Goru	01-Jul-88	Oil
1157	Sono	3	OGDC	18-Jul-88	Sindh	68	7,602	Lower Goru	06-Sep-88	Oil
1158	Sono	4	OGDC	28-Feb-89	Sindh	68	7,520	Lower Goru	20-Apr-89	Oil
1159	Sono	5	OGDC	31-May-90	Sindh	75	7,546	Lower Goru	24-Jul-90	Oil
1160	Sono	6	OGDC	22-May-99	Sindh		7,546	Lower Goru	02-Jul-99	Oil
1161	Sono	7	OGDCL	22-Feb-06	Sindh		7464	Lower Goru	09-Apr-06	Gas/Cond.
1162	Sono	8	OGDCL	23-Jun-06	Sindh		7,448	Lower Goru	12-Aug-06	Oil
1163	Sonro	2	UTP	24-Nov-85	Sindh	64	4,292	Lower Goru	07-Dec-85	Oil/Gas
1164	Sonro	3	BP	21-May-02	Sindh	63	4,199	Lower Goru	30-May-02	Oil
1165	Sonro	4	BP	03-Mar-02	Sindh	68	3,953	Lower Goru	08-Mar-02	Oil
1166	Sonro	6	BP	20-Aug-02	Sindh		4,334	Lower Goru	27-Aug-02	Oil
1167	Sonro	5	BP	24-Aug-02	Sindh		4,206	Lower Goru	01-Sep-02	Oil
1168	Sonro	7	BP	23-Feb-03	Sindh		4,202	Lower Goru	03-Mar-03	Oil
1169	Sonro	8	BP	20-Dec-07	Sindh		4,320	Lower Goru	27-Dec-07	Oil
1170	Sonro	9	BP	10-May-09	Sindh		4,325	Lower Goru	15-May-09	Oil
1171	Sonro	10	BP	27-Dec-09	Sindh		4,206	Lower Goru	01-Jan-10	Oil
1172	Sonro	11	UEPL	11-Mar-12	Sindh		5,942	Lower Goru	21-Mar-12	Oil
1173	Sonro	12	UEPL	22-Sep-12	Sindh		2,665	Lower Goru	06-Oct-12	Oil
1174	Sonro	13	UEPL	12-Feb-13	Sindh		5,449		26-Mar-13	Oil
1175	Sonro	14	UEPL	04-Jun-13	Sindh		4,435			-
1176	Sonro	15	UEPL	25-Mar-14	Sindh		4,314		02-Apr-14	Oil
1177	Sonro	17	UEPL	15-Oct-18	Sindh		5,900		30-Nov-18	Oil
1178	Sonro	18	UEPL	27-Apr-19	Sindh		5,179			Plugged & Abd.
1179	Suhrab Deep	6	UEPL	23-Sep-16	Sindh		13,192			Testing
1180	Sumar Deep	9	UEPL	28-Feb-14	Sindh		12,060	Lower Goru	29-Apr-14	Gas
1181	Sui	2	PPL	17-Dec-52	Baloch.	734	4,830	Sui Main Ls.	28-Mar-53	Gas
1182	Sui	3	PPL	13-Feb-54	Baloch.	846	4,765	Sui Main Ls.	18-May-54	Gas
1183	Sui	4	PPL	23-May-54	Baloch.	726	4,853	Sui Main Ls.	21-Aug-54	Gas
1184	Sui	5	PPL	24-Jul-54	Baloch.	758	4,870	Sui Main Ls.	03-Sep-54	Gas
1185	Sui	6	PPL	18-Sep-54	Baloch.	662	4,744	SUL	23-Oct-54	Gas
1186	Sui	7	PPL	03-May-60	Baloch.	777	4,452	Sui Main Ls.	28-Jul-60	Gas
1187	Sui	8	PPL	15-Aug-64	Baloch.	732	4,520	Sui Main Ls.	06-Oct-64	Gas
1188	Sui	9	PPL	30-Oct-64	Baloch.	748	4,452	Sui Main Ls.	26-Jan-65	Gas
1189	Sui	10	PPL	07-Apr-65	Baloch.	830	4,400	Sui Main Ls.	29-Jun-65	Gas
1190	Sui	11	PPL	14-Jul-65	Baloch.	870	5,030	Sui Main Ls.	06-Sep-65	Gas
1191	Sui	12	PPL	15-Jun-66	Baloch.	858	4,609	Sui Main Ls.	15-Aug-66	Gas
1192	Sui	13	PPL	02-Sep-66	Baloch.	753	4,355	SML	21-Nov-66	Gas
1193	Sui	14	PPL	04-Jan-68	Baloch.	736	4,330	Sui Main Ls.	16-Feb-68	Gas
1194	Sui	15	PPL	05-May-68	Baloch.	774	4,521	SML	17-Jun-68	Gas
1195	Sui	16	PPL	28-Feb-70	Baloch.	595	4,875	Sui Main Ls.	15-Apr-70	Gas
1196	Sui	17	PPL	26-Apr-71	Baloch.	729	4,480	SML	27-May-71	Gas
1197	Sui	18	PPL	06-Nov-73	Baloch.	770	4,338	SML	28-Dec-73	Gas
1198	Sui	19	PPL	04-Feb-74	Baloch.	739	4,375	SML	15-Mar-74	Gas

Note: Shaded area indicate wells drilled in current year

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APPRAISAL/DEVELOPMENT WELLS (Contd.)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
1199	Sui	20	PPL	10-Nov-75	Baloch.	854	4,604	Sui Main Ls.	23-Jan-76	Gas
1200	Sui	21	PPL	26-Feb-76	Baloch.	805	4,555	Sui Main Ls.	26-Apr-76	Gas
1201	Sui	22	PPL	01-Oct-76	Baloch.	810	4,920	Sui Main Ls.	17-Jan-77	Gas
1202	Sui	23	PPL	08-Feb-77	Baloch.	803	4,913	Sui Main Ls.	12-Jun-77	Gas
1203	Sui	24	PPL	15-Mar-79	Baloch.	812	4,562	Sui Main Ls.	20-Apr-79	Gas
1204	Sui	25	PPL	20-Feb-80	Baloch.	758	4,916	Sui Main Ls.	01-Apr-80	Gas
1205	Sui	26	PPL	15-May-80	Baloch.	777	4,934	Sui Main Ls.	19-Jul-80	Gas
1206	Sui	27	PPL	06-Oct-80	Baloch.	845	5,155	Sui Main Ls.	07-Nov-80	Gas
1207	Sui	28	PPL	09-Feb-81	Baloch.	587	6,229	Sui Main Ls.	02-Apr-81	Gas
1208	Sui	29	PPL	19-May-81	Baloch.	807	5,463	Sui Main Ls.	26-Jun-81	Gas
1209	Sui	30	PPL	19-Aug-81	Baloch.	836	5,266	Sui Main Ls.	28-Sep-81	Gas
1210	Sui	31	PPL	16-Nov-81	Baloch.	794	5,318	Sui Main Ls.	07-Jan-82	Gas
1211	Sui	32	PPL	15-Feb-82	Baloch.	728	5,281	Sui Main Ls.	06-Apr-82	Gas
1212	Sui	33	PPL	05-Jun-82	Baloch.	746	5,267	Sui Main Ls.	09-Aug-82	Gas
1213	Sui	34	PPL	07-Oct-82	Baloch.	806	5,351	Sui Main Ls.	13-Dec-82	Gas
1214	Sui	35	PPL	28-Jan-83	Baloch.	806	5,402	Sui Main Ls.	16-Apr-83	Gas
1215	Sui	37	PPL	24-Jun-83	Baloch.	813	5,320	Sui Main Ls.	27-Aug-83	Gas
1216	Sui	36	PPL	06-Jul-83	Baloch.	810	6,578	Sui Main Ls.	15-Oct-83	Gas
1217	Sui	38	PPL	26-Aug-83	Baloch.	828	4,641	Sui Main Ls.	23-Sep-83	Gas
1218	Sui	40	PPL	06-Oct-83	Baloch.	773	4,933	Pab	22-Nov-83	Gas
1219	Sui	42	PPL	19-Dec-83	Baloch.	798	4,956	Sui Main Ls.	30-Jan-84	Gas
1220	Sui	43	PPL	09-Feb-84	Baloch.	728	4,728	Sui Main Ls.	09-May-84	Gas
1221	Sui	39	PPL	03-Mar-84	Baloch.	831	4,989	Sui Main Ls.	13-Apr-84	Gas
1222	Sui	45	PPL	25-May-84	Baloch.	708	4,523	Sui Main Ls.	03-Jul-84	Gas
1223	Sui	41	PPL	07-Jun-84	Baloch.	716	4,874	Sui Main Ls.	25-Jul-84	Gas
1224	Sui	44	PPL	15-Jul-84	Baloch.	683	4497	Sui Main Ls.	15-Aug-84	Gas
1225	Sui	47	PPL	26-Aug-84	Baloch.	598	4,757	Sui Main Ls.	27-Sep-84	Gas
1226	Sui	46	PPL	13-Sep-84	Baloch.	656	4,815	Sui Main Ls.	18-Oct-84	Gas
1227	Sui	48	PPL	07-Oct-84	Baloch.	678	4,513	Sui Main Ls.	15-Nov-84	Gas
1228	Sui	49	PPL	26-Nov-84	Baloch.	670	4,478	Sui Main Ls.	22-Dec-84	Gas
1229	Sui	52	PPL	06-Dec-84	Baloch.	805	4,724	Pab	14-Jan-85	Gas
1230	Sui	51	PPL	04-Jan-85	Baloch.	697	4,511	Lower Goru	08-Feb-85	Gas
1231	Sui	54	PPL	18-Feb-85	Baloch.	805	4,617	Sui Main Ls.	12-Mar-85	Gas
1232	Sui	55	PPL	10-Mar-85	Baloch.	853	4,665	Sui Main Ls.	17-Apr-85	Gas
1233	Sui	53	PPL	24-Mar-85	Baloch.	837	4,205	SUL	15-Apr-85	Gas
1234	Sui	57	PPL	30-Apr-85	Baloch.	817	4,977	Sui Main Ls.	13-Jun-85	Gas
1235	Sui	50	PPL	01-May-85	Baloch.	841	4,088	Sui Upper Ls.	02-Jul-85	Gas
1236	Sui	59	PPL	29-Jun-85	Baloch.	782	4,596	Sui Main Ls.	23-Jul-85	Gas
1237	Sui	58	PPL	28-Jul-85	Baloch.	753	4,567	Sui Main Ls.	12-Sep-85	Gas
1238	Sui	60	PPL	05-Aug-85	Baloch.	822	4,636	Sui Main Ls.	15-Sep-85	Gas
1239	Sui	61	PPL	23-Sep-85	Baloch.	667	4,482	Sui Main Ls.	21-Oct-85	Gas
1240	Sui	56	PPL	30-Sep-85	Baloch.	783	4,268	SUL	03-Nov-85	Gas
1241	Sui	62	PPL	05-Nov-85	Baloch.	767	4,928	Sui Main Ls.	08-Dec-85	Gas
1242	Sui	63	PPL	21-Nov-85	Baloch.	831	4,990	Sui Main Ls.	07-Jan-86	Gas
1243	Sui	64	PPL	21-Dec-85	Baloch.	741	4,894	Sui Main Ls.	26-Jan-86	Gas
1244	Sui	65	PPL	30-Jan-86	Baloch.	886	5,046	Sui Main Ls.	22-Mar-86	Gas
1245	Sui	66	PPL	02-Feb-86	Baloch.	808	4,967	Sui Main Ls.	10-Mar-86	Gas
1246	Sui	67	PPL	22-Mar-86	Baloch.	757	4,921	Sui Main Ls.	20-Apr-86	Gas
1247	Sui	69	PPL	16-Apr-86	Baloch.	805	4,372	Sui Main Ls.	25-May-86	Gas
1248	Sui	70	PPL	04-Jun-86	Baloch.	782	4,941	Sui Main Ls.	03-Jul-86	Gas
1249	Sui	68	PPL	14-Jun-86	Baloch.	822	4,099	Sui Main Ls.	02-Aug-86	Gas
1250	Sui	71	PPL	11-Jul-86	Baloch.	801	4,259	Sui Main Ls.	08-Aug-86	Gas
1251	Sui	73	PPL	17-Aug-86	Baloch.	631	4,173	Sui Main Ls.	11-Sep-86	Gas
1252	Sui	72	PPL	10-Sep-86	Baloch.	687	4,145	Sui Main Ls.	13-Oct-86	Gas
1253	Sui	74	PPL	22-Sep-86	Baloch.	727	4,320	Sui Main Ls.	15-Oct-86	Gas
1254	Sui	76	PPL	27-Oct-86	Baloch.	587	4,194	Sui Main Ls.	18-Nov-86	Gas
1255	Sui	75	PPL	06-Nov-86	Baloch.	727	4,372	Sui Main Ls.	09-Dec-86	Gas
1256	Sui	77	PPL	25-Feb-87	Baloch.	735	4,895	Sui Main Ls.	30-Jul-87	Gas
1257	Sui	78	PPL	13-Nov-87	Baloch.	542	4,091	Sui Main Ls.	04-Dec-87	Gas
1258	Sui	79	PPL	24-Mar-88	Baloch.	727	4,193	Sui Main Ls.	17-Apr-88	Gas

Note: Shaded area indicate wells drilled in current year

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APPRAISAL/DEVELOPMENT WELLS (Contd.)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
1259	Sui	80	PPL	01-Aug-88	Baloch.	732	4,180	Sui Main Ls.	01-Nov-88	Gas
1260	Sui	81	PPL	18-Feb-89	Baloch.	722	4,267	Sui Main Ls.	23-Mar-89	Gas
1261	Sui	82	PPL	06-May-89	Baloch.	679	4,255	Sui Main Ls.	28-May-89	Gas
1262	Sui	83	PPL	03-Jul-89	Baloch.	722	4,104	Sui Main Ls.	28-Jul-89	Gas
1263	Sui	84	PPL	18-Nov-89	Baloch.	657	4,360	Sui Main Ls.	17-Dec-89	Gas
1264	Sui	85	PPL	01-Feb-90	Baloch.	710	4,167	Sui Main Ls.	26-Feb-90	Gas
1265	Sui	86	PPL	23-May-90	Baloch.	762	4255	Sui Main Ls.	26-Dec-90	Gas
1266	Sui	88	PPL	19-May-09	Baloch.		4,642	SML	29-Jul-09	Gas
1267	Sui	92	PPL	15-Mar-10	Baloch.		7,021			Suspended
1268	Sui	89	PPL	07-Jan-11	Baloch.		4,524			Gas
1269	Sui	93	PPL	21-Mar-11	Baloch.		7,218			-
1270	Sui	94	PPL	22-Jan-16	Baloch.		7,972		23-Mar-16	Gas
1271	Sui	95	PPL	28-Mar-16	Baloch.		11,959			Gas
1272	Sui	96	PPL	12-Nov-15	Baloch.		4,396			Gas
1273	Sui	97	PPL	22-Dec-11	Baloch.		3,166	Habib Rahi Ls.	13-Feb-12	Gas
1274	Sui	98	PPL	15-Oct-12	Baloch.		6,604			Under Completion
1275	Sui	99	PPL	08-Dec-12	Baloch.		2,290		23-Feb-13	Gas
1276	Sui	100	PPL	23-Mar-17	Baloch.		4,114		13-Apr-17	Gas
1277	Sui	101	PPL	02-Apr-17	Baloch.		4,167		04-Mar-17	Gas
1278	Sui	102	PPL	14-Feb-18	Baloch.		4,167		25-Mar-18	Gas
1279	Sui	103	PPL	22-Apr-18	Baloch.		4,318		20-May-18	Gas
1280	Sui	104	PPL	05-Jun-18	Baloch.		4,203			Drilling
1281	Sui	105	PPL	24-Apr-19	Baloch.		4,249			Gas
1282	Sui	107	PPL	24-Jun-19	Baloch.		1,299			Drilling
1283	Sui	108	PPL	05-Apr-19	Baloch.		9,068			Gas
1284	Sui	109	PPL	01-Feb-19	Baloch.		3,953		16-Mar-19	Gas
1285	Sui Effluent	1	PPL	08-Aug-01	Baloch.	753	1,243	Dozkushtak	27-Aug-01	Completed as SWD
1286	Suleman	2	OGDCL	30-Jun-15	Sindh		7,953			Drilling
1287	Suri	2	Tullow	09-Jan-02	Sindh	252	4,035	Upper Goru		Gas
1288	Sutiari Deep	2	UEPL	18-May-16	Sindh		12,867			Gas
1289	Sutiari Deep	3	UEPL	06-Sep-17	Sindh		13,074			Drilling
1290	Sutiari Deep	4	UEPL	10-Aug-18	Sindh		12,086		25-Sep-18	Gas
1291	Tajedi	2	UTP	27-Oct-84	Sindh	38	6,015	Lower Goru	24-Nov-84	Oil
1292	Tajjal	2	OMV	29-Jul-08	Sindh		12,585			Temp. suspended
1293	Tajjal	3	OMV	01-Nov-08	Sindh		12,467	Lower Goru	30-Nov-08	Plugged & Abd.
1294	Tajjal	4	OMV	27-Mar-11	Sindh		12,582		22-May-11	Gas
1295	Tando Alam	5	OGDC	13-Jul-85	Sindh	69	7,940	Lower Goru	04-Sep-85	Oil
1296	Tando Alam	2	OGDC	17-Jul-84	Sindh	79	7,546	Lower Goru	21-Oct-84	Oil
1297	Tando Alam	4	OGDC	29-Apr-85	Sindh	70	7,704	Lower Goru	29-Jun-85	Oil
1298	Tando Alam	7	OGDC	13-Oct-85	Sindh	68	7,719	Lower Goru	10-Dec-85	Oil
1299	Tando Alam	6	OGDC	24-Dec-85	Sindh	69	8,205	Lower Goru	03-Mar-86	Oil
1300	Tando Alam	3	OGDC	24-Dec-84	Sindh	72	7,645	SML	04-Apr-85	Oil
1301	Tando Alam	11	OGDC	05-Oct-86	Sindh	68	7,720	Lower Goru	09-Nov-86	Abandoned
1302	Tando Alam	13	OGDC	21-Jan-87	Sindh	69	8,284	Lower Goru	26-Feb-87	Abandoned
1303	Tando Alam	10	OGDC	12-Aug-86	Sindh	70	7,891		05-May-86	Abandoned
1304	Tando Alam	14	OGDC	05-Apr-87	Sindh	72	8,088	Lower Goru	16-May-87	Abandoned
1305	Tando Alam	8	OGDC	16-Mar-86	Sindh	68	7,792	Lower Goru	05-Jun-86	Oil
1306	Tando Alam	12	OGDC	15-Jan-87	Sindh	70	7,858	Lower Goru	19-Mar-87	Oil
1307	Tando Alam	15	OGDC	29-Jul-90	Sindh	70	7,431	Lower Goru	16-Feb-91	Abandoned
1308	Tando Alam	9	OGDC	17-Jun-86	Sindh	70	8,202	Lower Goru	28-Jul-86	Oil
1309	Tando Alam	17	OGDC	13-Jun-07	Sindh		7,943	Lower Goru		Oil
1310	Tando Alam	16	OGDC	20-Jun-07	Sindh		7,953	Lower Goru		Oil
1311	Tando Alam	16A	OGDC	13-Mar-08	Sindh		7,874			Gas/Cond.
1312	Tando Alam	18	OGDC	14-Jun-07	Sindh		7,874	Lower Goru		Oil & Gas
1313	Tando Alam	20	OGDC	23-Jun-07	Sindh		7,884	Lower Goru		Oil & Gas
1314	Tando Alam	19	OGDC	27-Jun-07	Sindh		7,598	Lower Goru		Temp. suspended
1315	Tando Allahyar	2	OGDCL	22-Jun-98	Sindh		5,495	Lower Goru		Oil/Gas
1316	Tando Allahyar	3	OGDCL	22-May-99	Sindh		5,249	Lower Goru	20-Jun-99	Oil
1317	Tando Allahyar	4	OGDCL	14-Sep-99	Sindh	69	5,512	Lower Goru	10-Oct-99	Oil
1318	Tando Ghulam Ali	2	UTP	14-Jan-90	Sindh	63	5,363	Lower Goru	24-Jan-90	Gas

Note: Shaded area indicate wells drilled in current year

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APPRAISAL/DEVELOPMENT WELLS (Contd.)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
1319	Tangri	3	UTP	01-Jun-95	Sindh		7,650	Lower Goru	22-Jun-95	Oil
1320	Tangri	4	UTP	20-Jan-96	Sindh		7,630	Lower Goru	18-Feb-96	Oil
1321	Tangri	5	UTP	07-Mar-96	Sindh		7,775	Lower Goru	14-Apr-96	Abandoned
1322	Tangri	6	UTP	28-Jul-97	Sindh		7,388	Lower Goru	27-Oct-97	Oil
1323	Tangri	7	UTP	19-Sep-00	Sindh	78	7,431	Lower Goru	04-Oct-00	Oil
1324	Tangri	8	UTP	23-Apr-00	Sindh	70	7,621	Lower Goru	16-May-00	Completed as WIW
1325	Tangri (WIW)	9	UTP	21-Jun-01	Sindh		7,904	Lower Goru		Completed as WIW
1326	Tangri (WIW)	10	UTP	14-Aug-01	Sindh	77	7,549	Lower Goru	22-Aug-01	Completed as WIW
1327	Tangri	11	UTP	19-Jul-01	Sindh		7,418	Lower Goru		Completed as WIW
1328	Tangri	12	BP	12-Aug-05	Sindh		7496	Lower Goru	23-Aug-05	Oil
1329	Tangri Deep	2	UEPL	10-Jul-12	Sindh		10,223	Lower Goru	20-Aug-13	Gas
1330	Thal East	2	OGDCL	30-Jun-16	Sindh		14,649			Plugged & Abd.
1331	Thal East	3	OGDCL	20-Oct-16	Sindh		13,301		23-Jan-17	Plugged & Abd.
1332	Thal West	2	OGDCL	02-Jun-17	Sindh		11,985		17-Apr-17	Plugged & Abd.
1333	Thora	4	OGDC	14-Apr-89	Sindh	75	6,907	Lower Goru	24-May-89	Oil
1334	Thora	5	OGDC	28-Dec-06	Sindh		7,251	Lower Goru	03-Feb-07	Temp. suspended
1335	Thora	6	OGDC	26-May-07	Sindh		6,759	Lower Goru		Gas/Condensate
1336	Thora	7	OGDC	28-Jun-08	Sindh		7064	Lower Goru		Oil
1337	Thora	8	OGDC	04-Oct-10	Sindh		7,011	Lower Goru	19-Dec-10	Gas Cond.
1338	Thora	2	OGDC	01-Nov-87	Sindh	82	7,448	Lower Goru	07-Dec-87	Oil
1339	Thora	3	OGDC	03-Aug-88	Sindh	66	7,251	SML	21-Oct-88	Oil
1340	Thora Deep	2	OGDC	22-May-08	Sindh		11155	Sembar		Gas/Cond.
1341	Thora WDW	1	OGDCL	06-Dec-04	Sindh	75	3,274	Khadro		Completed as WDW
1342	Tipu	2	MPCL	11-Jan-19	Sindh		9,311		28-Feb-19	Gas
1343	Toot	2	OGDC	17-Feb-68	Punjab	1,158	16,093	Datta	19-Mar-70	Abandoned
1344	Toot	3	OGDC	15-Feb-70	Punjab	1,103	7,224		01-Jul-70	Abandoned
1345	Toot	4	OGDC	24-Oct-70	Punjab	1,103	14,626	Dhak Pass	10-Jul-72	Oil
1346	Toot	5	OGDC	17-Oct-72	Punjab	1,076	14616	Datta	13-Feb-74	Oil
1347	Toot	6	OGDC	15-May-74	Punjab	1,100	14878	Datta	10-Mar-76	Oil
1348	Toot	7	OGDC	02-Jan-77	Punjab	1,068	15305	Kingriali	17-Jun-78	Oil
1349	Toot	9	OGDC	29-Jan-78	Punjab	1,121	15,190	Kingriali	30-Mar-79	Oil
1350	Toot	8	OGDC	02-Apr-78	Punjab	1,078	13,692	Sakessar	13-Aug-79	Abandoned
1351	Toot	10	OGDC	11-Jun-78	Punjab	1,072	14,145	Lockhart	05-Aug-79	Abandoned
1352	Toot	10A	OGDC	12-Sep-79	Punjab	1,072	15,075	Kingriali	11-Sep-80	Oil
1353	Toot	11	OGDC	14-Jan-80	Punjab	951	14,993	Kingriali	27-Jan-82	Oil
1354	Toot	12	OGDC	15-Nov-80	Punjab	1140	14,862	Datta	12-Feb-82	Oil
1355	Toot	13	OGDC	04-Jun-81	Punjab	1010	11,194	Murree	05-Apr-82	Abandoned
1356	Toot	14	OGDC	10-Mar-82	Punjab	1075	14,770	Datta	06-Jan-83	Oil
1357	Toot	15	OGDC	24-Apr-82	Punjab	1099	14,892	Datta	01-Dec-82	Oil
1358	Toot	16	OGDC	28-Dec-82	Punjab	1043	14,888	Datta	11-Jan-84	Oil
1359	Toot	17	OGDC	18-Feb-83	Punjab	1120	14,823	Datta	08-Jan-84	Oil
1360	Toot	18	OGDC	14-Nov-83	Punjab	1108	15,108	Datta	08-Jul-84	Oil
1361	Toot	19	OGDC	31-Aug-84	Punjab	1072	15,128	Datta	25-Aug-86	Oil
1362	Toot	1A	OGDC	07-Feb-01	Punjab	1053	15,039	Datta	31-Dec-01	Suspended
1363	Toot	20	OGDC	01-Jan-09	Punjab		15,420			Suspended
1364	Turk	2	UTP	11-Jan-86	Sindh	46	6,650	Lower Goru	26-Feb-86	Oil/Gas
1365	Turk	3	UTP	24-Oct-86	Sindh	50	6,670	Lower Goru	13-Nov-86	Oil/Gas
1366	Turk	4	UTP	07-Jul-87	Sindh	52	6,991	Lower Goru	07-Aug-87	Gas
1367	Turk	5	UTP	19-May-88	Sindh	53	11,052	Lower Goru	30-Jul-88	Gas
1368	Turk	6	UTP	15-Aug-91	Sindh	60	6,800	Lower Goru	02-Sep-91	Oil/Gas
1369	Turk	7	UEPL	02-Oct-15	Sindh		7,021			Oil/Gas
1370	Turk SWD	1	UTP	11-Mar-96	Sindh		1,506		20-Mar-96	Inj.
1371	Turk Deep	1	UTP	30-Sep-94	Sindh		10,850	Sembar	29-Nov-94	Gas
1372	Turk Deep	2	UTP	23-Jul-00	Sindh	56	8,510	Lower Goru	05-Sep-00	Gas
1373	Turk Deep	3	BP	20-Nov-03	Sindh		10233	Lower Goru	21-Jan-04	Gas
1374	Turk Deep	4	UEPL	20-Aug-14	Sindh		8,366	Lower Shale	22-Sep-14	Gas
1375	Uch	2	OGDC	16-Jul-87	Baloch.	318	4,747	Sui Main Ls.	09-Dec-87	Gas
1376	Uch	3	OGDC	07-Mar-88	Baloch.	387	6,027	Sui Main Ls.	24-May-88	Gas
1377	Uch	4	OGDC	27-Aug-88	Baloch.	325	6,194	Sui Main Ls.	08-Oct-88	Abandoned
1378	Uch	5	OGDC	28-Nov-88	Baloch.	378	5,003	Sui Main Ls.	31-Dec-88	Abandoned

Note: Shaded area indicate wells drilled in current year

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APPRAISAL/DEVELOPMENT WELLS (Contd.)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
1379	Uch	6	OGDC	28-Feb-89	Baloch.	479	5,994	Sui Main Ls.	05-Jun-89	Gas
1380	Uch	7	OGDC	18-Jul-92	Baloch.		4,659	Sui Main Ls.	29-Oct-92	Gas
1381	Uch	8	OGDC	28-Dec-92	Baloch.		4,718	Sui Main Ls.	27-Feb-93	Gas
1382	Uch	9	OGDC	18-May-94	Baloch.		4,619	Sui Main Ls.	18-Aug-94	Gas
1383	Uch	10	OGDC	16-Oct-94	Baloch.		4,541	Sui Main Ls.	01-Dec-94	Gas
1384	Uch	11	OGDC	06-Dec-95	Baloch.		4593	Habib Rahi	04-Jan-96	Gas
1385	Uch	12	OGDC	01-Jun-96	Baloch.		4528	SML	06-Jul-96	Gas
1386	Uch	13	OGDC	31-Dec-96	Baloch.		4495	SML	28-Mar-97	Gas
1387	Uch	14	OGDC	23-Jan-96	Baloch.		4934	SML	11-Mar-96	Gas
1388	Uch	15	OGDC	21-Mar-96	Baloch.		4610	SML	17-Jul-96	Gas
1389	Uch	16	OGDC	14-Sep-96	Baloch.		4462	SML	09-Dec-96	Gas
1390	Uch	17	OGDC	03-Apr-96	Baloch.		4587	SML	01-Jun-96	Gas
1391	Uch	17-A	OGDC	16-Jun-19	Baloch.		1,260			Drilling
1392	Uch	18	OGDC	30-Jun-96	Baloch.		4560	SML	10-Aug-96	Gas
1393	Uch	19	OGDC	19-Sep-11	Baloch.		4,478	SML	15-Nov-11	Gas
1394	Uch	20	OGDCL	12-May-10	Baloch.		4921	SML		Gas
1395	Uch	21	OGDC	18-Jun-09	Baloch.		4,560	SML		Gas
1396	Uch	22	OGDCL	30-Jun-10	Baloch.		4364	SML		Gas
1397	Uch	23	OGDCL	07-Sep-10	Baloch.		4,446	Sui Main Ls.	25-Nov-10	Gas
1398	Uch	24	OGDCL	01-Dec-10	Baloch.		4,380	SML	28-Jan-11	Gas
1399	Uch	25	OGDC	02-Oct-09	Baloch.		4377	SML		Gas
1400	Uch	26	OGDC	07-Dec-09	Baloch.		4560	SML		Gas
1401	Uch	28	OGDC	29-Jun-11	Baloch.		121			Gas
1402	Uch	27	OGDC	16-Dec-11	Baloch.		4,429	SML	18-Apr-12	Gas
1403	Uch	29	OGDC	10-Dec-10	Baloch.		4,396			Gas
1404	Uch	30	OGDC	15-Mar-11	Baloch.		4,429			Gas
1405	Uch	31	OGDC	27-Jan-11	Baloch.		4,462			Gas
1406	Uch	32	OGDC	09-Oct-11	Baloch.		4,446	SML	27-Nov-11	Gas
1407	Uch	33	OGDC	23-May-11	Baloch.		3,970			Gas
1408	Umar	2	UEPL	24-Dec-14	Sindh		11,191			Oil
1409	Zamzama	2	BHP	01-Feb-99	Sindh		12,904	Parh	08-May-99	Gas
1410	Zamzama	3	BHP	15-Jul-02	Sindh		13,228	Pab	14-Sep-02	Gas
1411	Zamzama	4	BHP	13-Oct-02	Sindh		12,133	Fort Munro	03-Jan-03	Gas
1412	Zamzama	5	BHP	04-Feb-03	Sindh		12,700	Fort Munro	31-Mar-03	Gas
1413	Zamzama	6	BHP	10-Feb-09	Sindh		12,425			Gas
1414	Zamzama	7	BHP	05-Nov-08	Sindh		12,352			Gas
1415	Zamzama	8	BHP	02-Jun-12	Sindh		10,371			-
1416	Zamzama	9	BHP	30-Oct-12	Sindh		12,410			Gas
1417	Zamzama North	1	BHP	16-Apr-03	Sindh		13,114	Fort Munro		Suspended
1418	Zamzama North	2	OPPL	19-Sep-18	Sindh		13,146		19-Jan-19	Plugged & Abd.
1419	Zamzama WDW	1	BHP	29-Dec-12	Sindh		6,512			Completed
1420	Zarghun South	2	Premier	31-Dec-99	Baloch.		9,465	Chiltan	04-Mar-00	Suspended
1421	Zarghun South	3	MPCL	20-Sep-16	Baloch.		5,971		09-Dec-16	Gas
1422	Zamzama East	1	BHP	09-Sep-03	Sindh		13,291	Fort Munro	25-Oct-03	Gas
1423	Zamzama Sub	1	OPPL	20-Feb-19	Sindh		13,517			Plugged & Abd.
1424	Zaur	2	UTP	28-Jul-95	Sindh		7,000	Lower Goru	15-Aug-95	Abandoned
1425	Zaur	3	UTP	09-Mar-01	Sindh	70	6,978	Lower Goru	23-Mar-01	Oil
1426	Zaur	4	UTP	06-Apr-01	Sindh	70	6,903	Lower Goru	22-Mar-01	Oil
1427	Zaur	5	BP	12-Nov-01	Sindh	70	7,000	Lower Goru	26-Nov-01	Oil
1428	Zaur	6	BP	21-Jan-02	Sindh		6,952	Lower Goru	02-Feb-02	Oil
1429	Zaur	7	BP	10-Sep-02	Sindh		6,532	Lower Goru	23-Sep-02	Oil
1430	Zaur	8	BP	22-Oct-02	Sindh		5,820	Lower Goru	05-Nov-02	Suspended
1431	Zaur	9	BP	12-Mar-03	Sindh		6,931	Lower Goru	24-Mar-03	Oil
1432	Zaur	10	BP	14-Jul-03	Sindh		6,850	Lower Goru	24-Jul-03	Oil
1433	Zaur	11	BP	29-Dec-03	Sindh		6,926	Lower Goru	12-Jan-04	Oil
1434	Zaur	12	BP	22-Jun-04	Sindh		6,390	Lower Goru		Oil
1435	Zaur	14	BP	26-Aug-08	Sindh		6,958	Lower Goru	10-Sep-07	Gas
1436	Zaur	15	BP	25-Feb-08	Sindh		7,456	Lower Goru	12-Mar-08	Oil
1437	Zaur	16	BP	12-Oct-09	Sindh		6,941	Lower Goru	23-Oct-09	Oil
1438	Zaur	17	BP	10-Jan-10	Sindh		8,917	Lower Goru	06-Feb-10	Oil

Note: Shaded area indicate wells drilled in current year

Contd./...

APPRAISAL/DEVELOPMENT WELLS (Contd.)

Sr#	Well Name	Well #	Operator	Spud Date	Province	KBE (Ft.)	TD (Ft.)	Completion Zone/Formation	Completion Date	Status
1439	Zaur	18	BP	07-Jul-10	Sindh		7,001	Lower Goru	21-Jul-10	Oil
1440	Zaur	19	BP	13-Oct-11	Sindh		7,231	Lower Goru	27-Oct-11	Oil & Gas
1441	Zaur SWD	1	BP	09-Mar-09	Sindh		1,705			Completed
1442	Zaur WIW	13	BP	21-Nov-05	Sindh		7,064	Lower Goru	08-Dec-05	Completed as WIW
1443	Zaur WSW	1	BP	14-Dec-05	Sindh		1,906			Completed as WSW
1444	Zaur WSW	2	UEPL	15-Mar-12	Sindh		1,909			Completed
1445	Zaur Deep	2	UTP	10-Dec-00	Sindh	68	8,402	Sui Main Ls.	30-Dec-00	Gas
1446	Zaur Deep	3	UTP	06-May-01	Sindh	70	8,556	Lower Goru		Gas
1447	Zin	2	OGDCL	16-Mar-12	Baloch.		3,445			-
1448	Zin	3	OGDCL	30-Jun-12	Baloch.		43			-
1449	Zin Pab	2	OGDCL	25-Aug-15	Baloch.		6,791	Fort Munro	12-Jan-15	Gas
1450	Zin SML	2	OGDCL	24-Apr-13	Baloch.		1,535			-
1451	Zin SML	3	OGDCL	17-Oct-13	Baloch.		3,379	SML	13-Dec-13	Gas

Source: DGPC

Appendix: 7.3

UNIT CONVERSIONS

	Million Btu	M cft Gas	Tonne FO	Tonne Crude Oil	Barrel Crude Oil	Tonne Local Coal	Tonne Imported Coal	MWh Primary Electricity	MWh Final Electricity
1 million Btu	1	1.02	0.025	0.024	0.178	0.053	0.036	0.100	0.293
1 MM cft Pipeline Gas	980	1,000	24.024	23.392	174.363	52.283	35.553	98.000	287.222
1 tonne FO	40.792	41.62	1	0.974	7.258	2.176	1.480	4.079	11.955
1 tonne Crude oil	41.895	42.75	1.027	1	7.454	2.235	1.520	4.190	12.279
1 barrel Crude oil	5.620	5.74	0.138	0.134	1	0.300	0.204	0.562	1.647
1 tonne Local Coal	18.74	19.13	0.460	0.447	3.335	1	0.680	1.874	5.494
1 tonne Imported Coal	27.56	28.13	0.676	0.658	4.904	1.471	1	2.756	8.079
1 MWh Primary Elect.	10.0	10.20	0.245	0.239	1.779	0.534	0.363	1	2.931
1 MWh Final Elect.	3.412	3.48	0.084	0.081	0.607	0.182	0.124	0.341	1

Appendix: 7.4

GROSS CALORIFIC VALUES

Gas	Million Btu per MMCFT	Giga Joule per MMCFT	TOE/ MMCFT
Sui Standard Natural Gas	980	1033.9	23.4
Badin & Condensates Average	1,047	1104.6	25.0
For Btu values of all other field gases, please see Table 3.1.			
Oil	Million Btu per Tonne	Giga Joule per Tonne	TOE/ Tonne
Indigenous Crude Oil	41.895	44.20	1.0000
Imported Crude Oil	43.313	45.7	1.0338
Avgas	43.659	46.1	1.0421
JP-1	43.218	45.6	1.0316
JP-4	44.144	46.6	1.0537
Motor Spirit	44.761	47.2	1.0684
HOBC	44.541	47.0	1.0632
E-10*	43.094	45.5	1.0286
HSD	44.045	46.5	1.0513
LDO	43.648	46.0	1.0418
Furnace Oil	40.792	43.0	0.9737
Kerosene	43.218	45.6	1.0316
Nephtha	44.761	47.2	1.0684
LPG	45.326	47.8	1.0819
MTBE	34.128	36.0	0.8146
Refinery Gas	46.200	48.7	1.1028
Electricity	Million Btu per GWh	Giga Joule per GWh	TOE/ GWh
As Primary Energy Input for Hydro/Nuclear	10,000	10,550	238.69
As Final Energy	3,412	3,600	81.44
Coal	Million Btu per Tonne	Giga Joule per Tonne	TOE/ Tonne
Indigenous	18.74	19.8	0.4474
Imported	27.56	29.1	0.6579

* Source: www.eia.doe.gov/oiaf/analysispaper/errata_biofuels.html

Appendix 7.5

LIST OF ABBREVIATIONS

ACGR	Annual Compound Growth Rate
AJKHEB	Azad Jammu & Kashmir Hydro Electric Board
ARL	Attock Refinery Limited
BP	BP Pakistan Exploration & Production Inc.
BTU	British Thermal Unit
BTX	Benzyne Toulene Xylene
Cft	Cubic Feet
CNG	Compressed Natural Gas
CPPA-G	Central Power Purchase Agency
DGG	Directorate General of Gas
DGM	Directorate General of Minerals
DGO	Directorate General of Oil
DGPC	Directorate General of Petroleum Concessions
DPL	Dewan Petroleum (Pvt) Limited
DRL	Dhodak Refinery Limited
FBS	Federal Bureau of Statistics
FO	Furnace oil
GSP	Geological Survey of Pakistan
GTPS	Gas Turbine Power Station
GWh	Giga Watt Hour
HDIP	Hydrocarbon Development Institute of Pakistan
HOBC	High Octane Blending Component
HSD	High Speed Diesel Oil
HSFO	High Sulphur Furnace Oil
HUBCO	The Hub Power Company
Hunt	Hunt International Petroleum Company
JBO	Jute Batch Oil
JJVL	Jamshoro Joint Venture Limited
JP-1, JP-4	Aviation Fuels
KANUPP	Karachi Nuclear Power Plant
KAPCO	Kot Addu Power Company
KESC	Karachi Electricity Supply Corporation
KPK	Khyber Pakhtun Khwa
LASMO	Lasmo Oil Pakistan Limited
LDO	Light Diesel Oil
LHFO	Low Sulphur Furnace Oil
LNG	Liquified Natural Gas
LPG	Liquefied Petroleum Gas
MGCL	Mari Gas Company Limited
MTBE	Methyl Tertiary Butyl Ether
MTT	Mineral Turpentine
MW	Mega Watt
MWh	Mega Watt Hour
n.a.	Not Available
NGPS	Natural Gas Power Station
NRL	National Refinery Limited
NWFP	North Western Frontier Province
OCAC	Oil Companies Advisory Committee
OGDC	Oil & Gas Development Company
OTPS	Oil Thermal Power Station
OXY	Occidental of Pakistan Inc.
PAEC	Pakistan Atomic Energy Commission
PARCO	Pak-Arab Refinery Company Limited
PASMIC	Pakistan Steel Mills Corporation
PEDO	Pakhtunkhwa Energy Development Organization
PMDC	Pakistan Mineral Development Corporation
POL	Pakistan Oilfields Limited
PPL	Pakistan Petroleum Limited
PRL	Pakistan Refinery Limited

LIST OF ABBREVIATIONS (Contd.)

Ps	Paisa
Qty	Quantity
RON	Research Octane Number
SNGPL	Sui Northern Gas Pipelines Limited
SPS	Steam Power Station
SSGCL	Sui Southern Gas Company Limited
T & D	Transmission & Distribution
TCF	Trillion Cubic Feet
TEL	Tapal Energy Limited
TOE	Tonnes of Oil Equivalent.
Tonne	Metric Tonne
TPS	Thermal Power Station
US	United States
UTP	Union Texas Pakistan Inc.
WAPDA	Pakistan Water & Power Development Authority, Lahore.
ZOT	Zulfiqarabad Oil Terminal
