Industry Report

Thursday, 12 January 2017



Industry Report

Exhibit: IGI E&P Universe											
	TP	Rec	Upside	P/E	D/Y						
OGDC	196	BUY	17%	9.1	4%						
PPL	218	BUY	14%	10.3	4%						
POL	544	HOLD	1%	12.7	8%						
MARI	1,539	BUY	13%	13.0	0%						



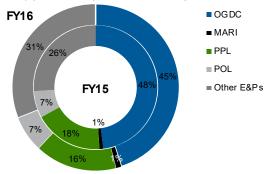


Exhibit: Pakistan E&P Market Share - Gas

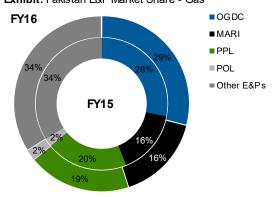
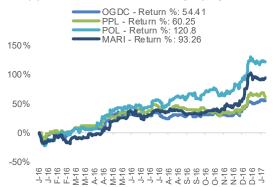


Exhibit: Relative Price Performance IGI E&P Universe



Source: Bloomberg, KSE 100, PPIS & IGI Research

Analyst

Abdullah Farhan Research Analyst abdullah.farhan@igi.com.pk

Tel: (+92-21) 111-234-234 Ext.: 912

Oil & Gas - Exploration and Production

Resetting Expectations, Inexpensive Valuations; 'Over-Weight' Stance Intact

Sector profitability to improve by massive 44% in FY17

We estimate sector profitability to grow by a massive +44% in FY17 to PKR 138bn in excess of market growth of +2.6% and thereby maintaining a 3Yrs CAGR of +16%. Primarily we say this owing to improve profitability led by stable oil prices, slightly higher than FY16 level and additional production through new discoveries coming online. Sector is currently trading at FY17/FY18 forward P/E multiple of 10.0x/8.8x (~17% discount to market P/E of 12.0x in FY17).

Long term oil price assumption intact at USD 50/bbl, while lifting our price to USD 55/bbl for 2HFY17

For FY17 we have lifted our price assumption for Arab light in 2HFY17 to USD 55/bbl post announcement of production cut by OPEC, meeting held back in Nov-16. As a result, our FY17 price assumption comes at USD 50/bbl. From FY18 onwards we expect limited upside in oil prices on the back of expected rise in shale production and uncertainty looming over OPEC's long term commitment to its production cut. We maintain our long term oil price assumption of USD 50/bbl.

Oil and gas production foreseen to increase by +13% and +15%, respectively in FY17

We expect oil production to rise by +13% on the back of additional production of 6,016 /2,556 /1,063 /391bopd coming from OGDC /PPL /POL /MARI respectively. Whereas, gas production is expected to augment by +15% or by 151 /65 /42 /10mmcfd owing to incremental production coming from OGDC /PPL /POL /MARI.

Recommendation

Our top picks in Pakistan E&P Sector are OGDC and PPL with Dec-17 target price of PKR 196/share and PKR 218/share offering +17% and +14% upside, respectively from its last closing. OGDC and PPL are currently trading at FY17 P/E of 9.1x and 10.3x, respectively. We have a "BUY" recommendation on MARI with Dec-17 of PKR 1,539/share offering +13% upside. The scrip is trading at FY17 P/E of 13x with highest earnings growth of 39% 3YR CAGR. MARI has more than doubled (+122% return) in past 12M compared to market +44%. However, we maintain a "HOLD" call on POL with our Dec-17 target price of PKR 544/share offering +1% upside from its last closing. The scrip has performed the most amongst the Pakistan E&P sector, registering returns of nearly +150%.

Exhibit: Valuation Highlight - Pakistan E&P Sector

E&Ps		818.46	7.81	9.95	8.74	4.53	4.87	44.25	13.91
MARI	BUY	150.83	1.44	13.09	10.25	0.42	0.43	90.41	27.72
POL	NEUTRAL	127.58	1.22	12.65	10.58	7.79	8.71	39.44	19.54
PPL	BUY	371.47	3.55	10.10	9.20	4.38	4.78	64.91	9.73
OGDC	BUY	722.30	6.89	9.09	8.04	4.17	4.76	32.49	13.14
SYM	RECOM.	PKR bn	USD bn	FY17E	FY18E	FY17E	FY18E	FY17E	FY18E
0)/14	DECOM	Mkt.	Сар.	P/I	Εx	DΛ	/ %	EARNINGS (GROWTH %

Part of IGI Financial Services

Thursday, 12 January 2017



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Pakistan Oil and Gas Exploration

FY16: Sector profitability marred by lower oil prices and production

Pakistan E&P sector performance remained weak in FY16 under-performing KSE-100 by 23%. Overall sector profitability declined by 30%YoY, led by a 22% decline in oil prices and 7% in oil production. OGDC /PPL /POL recorded earnings decline of 31% /35% /14%YoY in FY16, while MARI reported a +7%YoY growth.

Exhibit:

E&P Sector Performance



Source: IGI Research, Bloomberg

Oil production declined by 7%YoY while gas production increased by +3%YoY in FY16

Pakistan's oil production during FY16, declined by 7%YoY to 86,341bopd, led by 8% drop in production from Nashpa field (one of the largest oil field in Pakistan, operator OGDC). Gas production inched up during the year to 4,051mmcfd (+3%YoY) on account of +5% /4% /2% rise in production from Sui /Uch /Mari field, respectively.

MARI oil production increased by +14%YoY to 1,294bopd as production commenced from Halini Deep-1, while gas production inched up by +3%YoY owing to a +2%YoY rise in production from Mari field.

Oil production from OGDC showed a meagre 1%YoY decline to 40,609bopd owing to 8%YoY drop in production from Nashpa field. However, production increase of +4%/+6%YoY from Pasakhi / Adhi field negated decline in production from Nashpa. Gas production decline from Qadirpur led to overall production contract of 5%YoY to 1,056mmcfd.

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PPL oil production surged by +1%YoY to 15,115bopd owing to +6%/+27%YoY increase in production from Adhi /Maramzai. Gas production also registered a growth of +1%YoY to 830mmcfd on the back +5%YoY rise in production from Sui field.

Oil production for POL dropped by 1%YoY mainly on the back of 18%/5%YoY lower production from Balkassar /Meyal field, while gas production jumped up by +6%YoY to 75mmcfd primarily owing to +42% /+32%YoY growth from Maramzai /Makori East.



Investment Thesis

Industry profitability to improve significantly in FY17; 3Yrs CAGR estimated at +16%

Looking ahead, we estimate industry profitability to grow by a massive +44% to PKR 138bn in excess of market growth of +2.6% in FY17 and thereby maintaining a 3Yrs CAGR of +16%. Primarily we say this owing to improve profitability led by stability in oil prices, slightly higher than FY16 level and additional production through new discoveries coming online. E&P industry is currently trading at FY17/FY18 forward P/E multiple of 10.0x/8.8x (~17% discount to market P/E of 12.0x in FY17).

		Mkt.	Сар.			P/E			D/Y %			P/B			ROE		EARN	INGS %	YoY
Sectors	Recom.	PKR bn	USD bn	WT %	CY15 / FY16	CY16 / FY17			CY16 / FY17		CY15 / FY16		CY17 / FY18			CY17 / FY18	CY15 / FY16		CY17 / FY18
E&PS	OW	818	7.8	14%	14.4	10.0	8.8	2.9	4.1	4.6	1.9	1.7	1.5	13.1	17.2	17.5	(29.5)	44.3	13.9
KSE 100		5,935	56.5		12.8	11.4	10.4	4.1	4.5	4.9	2.2	2.0	1.9	17.4	17.9	18.0	4.4	12.4	9.9
TOTAL (EX- E&P)		5,116	48.7	86%	12.3	12.0	11.1	4.6	4.7	4.9	2.4	2.2	2.0	19.4	18.2	18.2	22.4	2.6	8.1

Source: IGI Research

We have lifted our oil price assumption for FY17; long term assumption stays intact at USD 50/bbl...

For FY17, we have lifted our price assumption for Arab light in 2HFY17 to USD 55/bbl post announcement of production cut by OPEC, meeting held back in Nov-16. As a result, our FY17 price assumption comes at USD 50/bbl. From FY18 onwards, we expect limited upside in oil prices on the back of expected rise in shale production and uncertainty looming over OPEC's long term commitment to its production cut. We maintain our long term oil price assumption of USD 50/bbl.

...along with increasing Oil and gas production; $\pm 13\%$ and $\pm 15\%$, respectively in FY17

Nevertheless, we estimate oil production is expected to rise by +13%yoY in FY17 on the back of additional production of 6,016 /2,556 /1,063 /391bopd coming from OGDC /PPL /POL /MARI respectively. Whereas, gas production is expected to augment by +15%YoY or by 151/65/42/10mmcfd owing to incremental production coming from OGDC /PPL /POL /MARI.



Stock Selection

Amongst Pakistan E&P industry, we prefer OGDC and PPL as our preferred picks.

		Mkt. C	ар.			P/E			D/Y %			P/B			ROE		EARN	INGS %	YoY
SYM	Recom.	PKR bn	USD bn	WT %	CY15 / FY16								CY17 / FY18						CY17 / FY18
OGDC	BUY	723.24	6.9	12%	12.06	9.10	8.05	3.09	4.16	4.76	1.51	1.37	1.23	12.53	15.02	15.35	(31.26)	32.49	13.14
PPL	BUY	377.70	3.6	6%	16.93	10.27	9.36	2.48	4.31	4.70	1.85	1.68	1.53	10.91	16.35	16.30	(34.88)	64.91	9.73
POL	NEUTRAL	127.88	1.2	2%	17.68	12.68	10.61	6.47	7.77	8.69	4.24	4.22	4.09	23.99	33.29	38.59	(14.48)	39.44	19.54
MARI	BUY	150.36	1.4	3%	24.85	13.05	10.22	0.37	0.43	0.43	8.86	8.71	4.80	35.67	66.75	46.98	7.10	90.41	27.72

Source: IGI Research

Exhibit:

Implied oil price of Pakistan E&P Sector

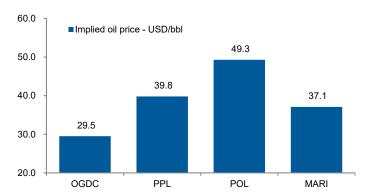
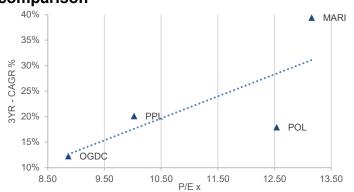


Exhibit:

E&P Sector 3YR CAGR and FY17 P/E comparison



Source: IGI Research

OGDC: Inexpensive valuation along with multiple factors, makes OGDC our preferred pick

Compared to the rest of Pakistan E&P companies, OGDC currently trade at low FY17 forward P/E multiple of 9.1x (Pakistan E&P currently trades at forward FY17 P/E of 11.2x ex-OGDC), while having 3Yrs CAGR of +12% in earnings. Our Dec-17 based target price for OGDC comes at PKR 196.2/share offering a decent +17% upside. Combined with a dividend yield of 4.2%, total return for OGDC stands at +20.8%. To support our liking for OGDC, we note;

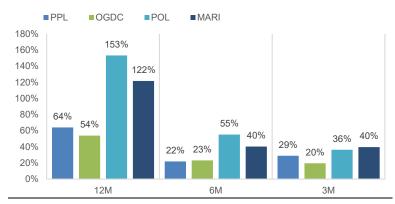
Inclusion of OGDC in MSCI EM Index; bound to grab the largest piece of the pie: Pakistan will be classified into MSCI Emerging Markets (EM) index by May-17 from current MSCI Frontier Market (FM) Index. Currently MSCI EM index market capitilisation stands at USD 3.9trn representing 23 EM countries. For Pakistan MCB, HBL, OGDC, UBL, FFC and ENGRO with a total free-float market capitilisation of USD ~7.5bn would make up 0.2% of the total EM pie. Amongst the candidates, OGDC ranks top in terms of free-float market capitilisation above USD 1.0bn. Post MSCI reclassification of Pakistan, we expect overall market to potentially rerate at higher multiple (forward P/E of MSCI EM stands at 11.9x). Hence we expect similar fate for OGDC.



OGDC trading at lower implied oil price of USD 29.5/bbl: Compared to Pakistan E&P sector, OGDC is trading at an implied oil price of USD 29.5/bbl, which is at nearly 41% discount to our long-term oil price assumption of USD 50/bbl. Whereas, POL is trading at implied oil price of at USD 49.3/bbl at a discount of 1% to our oil price assumption.

Exhibit:

OGDC laggard performance compared Pakistan E&P Sector



Source: IGI Research, Bloomberg

PPL: Sound earnings growth, with potential of positive surprises

Along with OGDC, we highlight PPL as our preferred stock. Having earnings growth of +64% in FY17, the scrip trades at a slightly higher forward P/E of 10.3x compared to OGDC. Based on our Dec-17 target price of PKR 218/share along with a decent dividend yield of 4.3%, PPL offers a total return of +18%.

MARI: Exceptional earnings growth of +90% in FY17 in excess of sector growth; but priced in!

We estimate MARI to register exceptional earnings growth of +90% in excess of sector growth. However, the scrip is trading at a forward P/E of 13.05x and offers a low dividend yield of 0.4%. With our Dec-17 target price of PKR 1,539/share the scrip offers total return of +13%. The stock has more than doubled (+122% return) in past 12 months compared to market return of +44%.

POL: It's all about dividends

Last but not the least, POL ranks lowest in our E&P sector. To our Dec-17 target the scrip offers a negligible upside of +1%, whereas given a higher dividend yield of +8%, POL total returns equate to +9%. The scrip has performed the most amongst the Pakistan E&P sector, registering returns of nearly +150% in past 12 months.



Regional Comparison

Exhibit:

Regional Comparison

					Oil & Gas							
			Market Cap	EV	Production	Reserve				Dividend	EBITDAX	
ASIA PACIFIC	Name	Country	(USD'mn)	(USD'mn)	(MBOED)	Life	EV/BoE	EV/EBITDA	P/E (x)	Yield (%)	Margin (%)	ROE (%)
EMERGING			19,176.56	15,997.75	557.25	8.25	9.01	5.79	15.63	2.61	52.95	6.71
OINL IN Equity	OIL INDIA LTD	India	3,657	3,607	112	-	-	7.55	11.66	3.60	37.10	9.84
CAIR IN Equity	CAIRN INDIA LTD	India	6,877	9,513	129	3.60	10.18	6.54	26.49	1.21	42.55	3.48
RDGZ KZ Equity	KAZMUNAIGAS EXPLORATION PROD	Kazakhstan	3,141	6,252	251	7.89	8.65	-	6.08	-	(7.94)	10.67
883 HK Equity	CNOOC LTD	China	56,298	35,527	1,358	8.06	8.89	6.21	-	2.71	58.84	1.45
PTTEP TB Equity	PTT EXPLOR & PROD PUBLIC CO	Thailand	9,185	9,440	373	5.43	12.13	3.08	20.99	2.64	78.15	4.90
ONGC IN Equity	OIL & NATURAL GAS CORP LTD	India	35,902	31,648	1,121	16.28	5.20	5.55	12.92	2.88	48.13	9.90
DEVELOPED			4,070.10	4,111.58	213.19	11.62	6.58	4.86	18.45	1.32	43.70	4.90
1605 JP Equity	INPEX CORP	Japan	14,767	15,027	513.80	16.09	4.98	3.32	25.39	1.51	48.52	2.13
1662 JP Equity	JAPAN PETROLEUM EXPLORATION	Japan	1,296	1,244	59.88	14.34	3.97	8.97	22.79	1.12	13.29	1.82
2686 HK Equity	AAG ENERGY HOLDINGS LTD	Hong Kong	549	878	-	-	-	2.28	7.17	-	69.30	10.73
IOC US Equity	INTEROIL CORP	Papa New Guinea	2,352	2,255	-	-	-	-	-	-	-	(9.84)
467 HK Equity	UNITED ENERGY GROUP LTD	Hong Kong	1,386	1,154	65.90	4.44	10.79	-	-	-	(14.46)	-
PAKISTAN			3,283.72	3,213.76	134.95	10.92	8.10	6.34	11.27	4.17	67.70	28.62
OGDC PA Equity	OIL & GAS DEVELOPMENT CO LTD	Pakistan	6,892	6,817	250.9	10.90	6.83	5.16	9.10	4.32	67.12	12.53
PPL PA Equity	PAKISTAN PETROLEUM LTD	Pakistan	3,584	3,488	159.4	10.85	5.55	5.72	10.32	4.33	72.56	10.91
POL PA Equity	PAKISTAN OILFIELDS LTD	Pakistan	1,217	1,115	18.2	7.90	17.49	6.22	12.74	7.60	63.57	23.99
MARI PA Equity	MARI PETROLEUM CO LTD	Pakistan	1,441	1,435	111.3	14.02	2.52	8.26	12.94	0.42	67.57	67.04

Last updated: 11-Jan-17

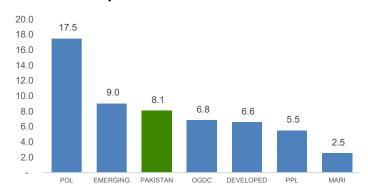
Exhibit:

Pakistan E&Ps trading at low P/E multiple, despite offering a higher ROE



Exhibit

MARI, PPL trading at a significant discount on EV/boe multiple





Reserves and Production

Pakistan's oil and gas reserves stand at 351mnbbl and 19.2tcfd by FY16

According to the data published by PPIS, Pakistan's total oil and gas 2P reserves stands at 351mnbbl and 19.2tcf as of Jun-16. During FY16 Pakistan's oil and gas reserves declined by 9%YoY and 5%YoY from 384mnbbls and 20.3tcf in FY15. Total oil production declined by 7%YoY to 86,341bopd in FY16 as compared to 92,669bopd in FY15, however total gas production increased by +3%YoY to 4,051mmcfd as compared to 3,915mmcfd in FY15.

OGDC

OGDC's total oil and gas 2P reserves declined by 8%YoY each to stand at 171mnbbls and 4.8tcf, translating in to cumulative reserves of 1.0bnBoE. Oil production declined by 1%YoY to 40,609bopd as compared to 40,818bopd in FY15 owing to 8%YoY lower production from Nashpa (28% contribution) while +4%/+6%YoY rise in production from Pasakhi/Adhi Field (17% cumulative contribution). Gas production declined by 5%YoY to 1,056mmcfd from 1,107mmcfd in FY15 mainly due to 14%YoY decline in production from Qadirpur (23% contribution) while +4%YoY incline in production from Uch (30% contribution). The company's oil and gas reserve life stands at 12.1yrs and 11.1yrs, respectively translating in to total reserve life of 11.3yrs.

MARI

MARI's total oil 2P reserves declined by 14%YoY and 6%YoY to stand at 1.8mnbbls and 3.5tcf, translating in to a cumulative reserve of 0.61bnBoE. Oil production inclined by +14%YoY to 1,294bopd as compared to 1,135bopd in FY15 owing to commencement of production from Halini Deep-1. Gas production increased by +3%YoY to 636mmcfd from 616mmcfd in FY15 mainly due to +2%YoY higher production from Mari field. The company's oil and gas reserve life stands at 8.2yrs and 14.1yrs, respectively translating in to total reserve life of 14.0yrs.

PPL

PPL's total oil and gas 2P reserves declined by 7%YoY and 8%YoY to stand at 66mnbbls and 3.2tcf, translating in to a cumulative reserve of 0.63bnBoE. Oil production surged by +1%YoY to 15,115bopd as compared to 15,019bopd in FY15 owing to +6%/+27%YoY higher production from Adhi/Maramzai (26% cumulative contribution) while 8%YoY decline in production from Nashpa (37% contribution). Gas production increased by +1%YoY to 830mmcfd from 825mmcfd in FY15 mainly due to +5%YoY higher production from Sui field (47% contribution). Company's oil and gas reserve life stands at 12.4yrs and 10.7yrs, respectively translating in to total reserve life of 10.9yrs.

POL

POL's total oil and gas 2P reserves declined by 11%YoY and 10%YoY to stand at 21mnbbls and 0.3tcf, translating in to a cumulative reserve of 0.06bnBoE. Oil production declined by 1%YoY to 6,252bopd as compared to 6,300bopd in FY15



owing to lower production from Balkassar (down 18%YoY) and Meyal (down 5%YoY). Gas production augmented by +6%YoY to 75mmcfd from 71mmcfd in FY15 mainly due to +42%/+32%YoY higher production from Maramzai/Makori East field. The company's oil and gas reserve life stands at 7.5yrs and 8.1yrs, respectively translating in to total reserve life of 7.9yrs.

Exhibit:

Pakistan Reserve life based on Jun-16 2P reserves

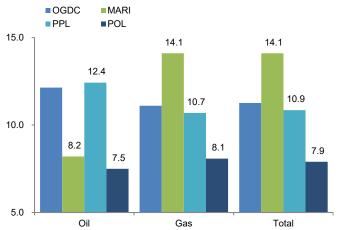
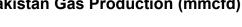
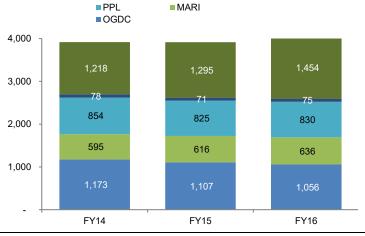


Exhibit:

Pakistan Gas Production (mmcfd)

■ Other E&Ps





■ POL

Source: IGI Research, PPIS, Company Financials

Exhibit:

Pakistan Oil Production (bopd)

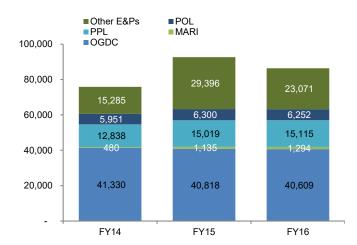
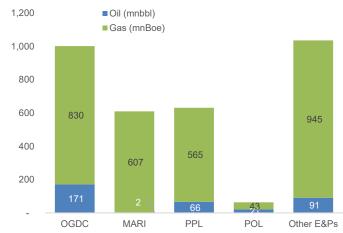


Exhibit:

Pakistan total Oil and Gas Reserves (as of Jun-16)





Drilling Activity and Production

Drilling activity and Production to rise...

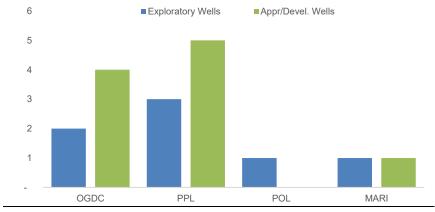
We expect companies to pick up on drilling activity in coming years on the back of improved security situation in the country and depleting reserve base. Production is expected to increase on the back of additional production coming online, however dependence on few major fields for higher proportion of production remains key concern for Pakistan E&P companies.

PPL most aggressive on drilling

In FY17TD, a total of 10 exploratory and 19 development wells have been spudded. PPL is leading the pack with aggressive drilling and has spudded 3 exploratory and 5 development wells in FY17TD against 13 exploratory and 9 development wells planned in FY17, while OGDC has spudded 2 exploratory wells and 4 developments wells in FY17TD against 16 exploratory and 12 development wells planned. POL has drilled 1 exploratory well while MARI has drilled 1 exploratory and 1 development well so far in FY17TD. In Tal Block 2 development wells have been spudded so far of which 1 has been successful at Maramzai-4.

Exhibit:

Wells spudded in FY17TD, PPL leading the pack



Source: IGI Research, PPIS

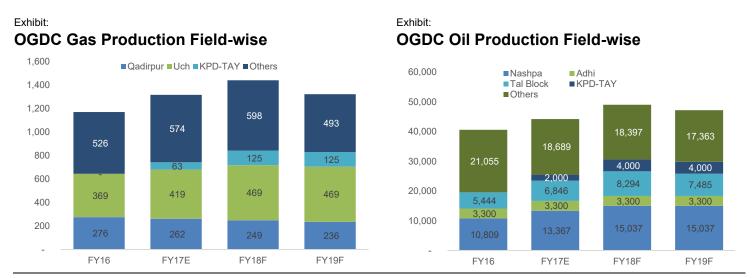
...with output staying concentrated in few fields

OGDC: Qadirpur and Uch remain key source of gas production

Gas production for OGDC is expected to increase by +13%YoY in FY17 and +9%YoY in FY18 (3yr CAGR of +4%) on the back of 151mmcfd and 331mmcfd of additional production coming online in FY17 and FY18, respectively. Additional gas production is primarily driven from Uch and KPD-TAY project adding 100mmcfd and 125mmcfd of gas during latter half of FY17. However, dependence on Qadirpur and Uch is expected to remain dominant for gas production contributing 48% to total gas production in FY17. Production from Qadirpur is expected to decline by 5% annually. Oil production is expected to increase by +15%/+11%YoY in FY17/FY18 on the back



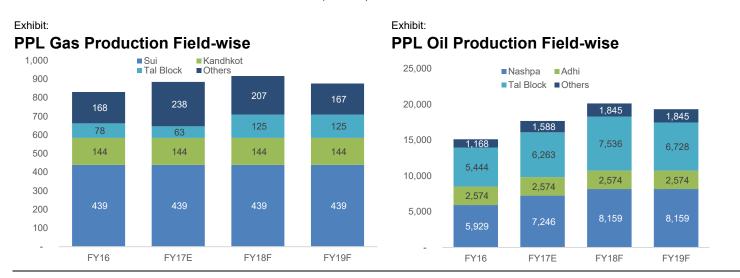
of 6,016bopd/11,309bopd of additional production mainly from KPD-TAY (4,000bopd) and Nashpa-6/7 (2,966bopd). Production from Nashpa is expected to rise by +24%/+12%YoY in FY17/FY18, respectively.



Source: IGI Research, Company Financials

PPL: Sui to lead gas production while Nashpa driving oil production

Gas production for PPL is expected to increase by +7%YoY in FY17 and +4%YoY in FY18 (3yr CAGR of +2%) on the back of 65mmcfd and 109mmcfd of additional production coming online in FY17 and FY18, respectively. Additional gas production is primarily driven from Hatim X-1 and Mardankhel adding 37mmcfd and 11mmcfd of gas during FY17. However, PPL relies heavily on Sui field for 50% of total gas production. Oil production is expected to increase by +17%/+14%YoY in FY17/FY18 on the back of 2,556bopd/5,000bopd of incremental production mainly from Nashpa (2,230bopd), Makori deep (1,182bopd) and Mardankhel (888bopd). Production from Nashpa is expected to rise by +24%/+12%YoY in FY17/FY18, respectively.



Source: IGI Research, Company Financials, PPIS

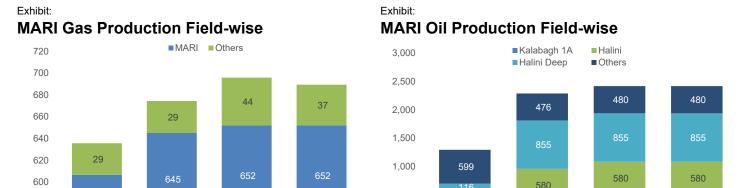


504

FY19F

MARI: Mari field remains vital with 96% contribution to gas production

Mari field account for nearly 96% of the total gas production for MARI. We expect production from Mari field to rise by +6%/+1%YoY in FY17/FY18 to 652mmcfd while total production potential from Mari field stands at 700mmcfd. Oil production is expected to increase by +79%/+6%YoY in FY17/FY18 on the back of Halini Deep (855bopd) which came online in May-16 and Kalabagh 1A (300bopd) to come online in FY17.



500

Exhibit:

Source: IGI Research, Company Financials

FY17E

FY18F

FY19F

FY16

580

560

POL: Tal block remains backbone of oil and gas production

116

580

FY16

POL relies on Tal Block for nearly 70% of gas production which is expected to increase to 82% by FY19 on the back of additional discoveries solely from Tal block. Gas production is expected to increase by +12%/+5%YoY in FY17/FY18 on the back of new discovery from Mardankhel (8.4mmcfd), Makori East-5 (4mmcfd) and Maramzai-4 (3mmcfd) coming online in FY17. Oil production is expected to augment by +15%YoY each in FY17 and FY18 as additional production from Mardankhel (674bopd), Makori East-5 (597bop) and Makori Deep (798bopd) commences production in FY17. Tal block is expected to contribute 74% by FY19 in total oil production as compared to 68% in FY16.

FY17E

FY18F





POL Oil Production Field-wise



Source: IGI Research, Company Financials

Thursday, 12 January 2017



Exhibit:

Major Oil and Gas Fields



Source: IGI Research, PPIS, Company Financials, Bloomberg



Wellhead Prices Under Petroleum Policy

Wellhead prices under Petroleum Policy (PP) have been linked with crude oil (Benchmark Arab Light) price under a mechanism with a floor and ceiling price. PP01 and PP07 have floor price of USD 10/bbl each while having a ceiling of USD 36/bbl and USD 45/bbl, respectively. PP09 and PP12 have floor price of USD 30/bbl each, while having ceiling price of USD 100/bbl and USD 110/bbl, respectively. Concessions awarded before 1994 Policy were linked with Bunker Fuel price (Furnace Oil). Major gas production for OGDC comes from wells before 1994 Policy, while for PPL and POL most well fall under PP01 pricing regime. Wellhead price for Mari field (MARI) is similar to PP01 with floor of USD 15/bbl, no ceiling, Zone-III discount of 67.5% and wellhead discount of 50%.

Exhibit:

Wellhead price under Petroleum Policies

USD/mmbtu	Floor USD/bbl	Ceiling USD/bbl	USD 20/bbl	USD 30/bbl	USD 40/bbl	USD 50/bbl	USD 60/bb	USD 120/bbl
Petroleum Policy 2001					•			
Zone I			2.45	2.83	2.99	2.99	2.99	2.99
Zone II	10.00	36.00	2.29	2.65	2.80	2.80	2.80	2.80
Zone II			2.13	2.46	2.61	2.61	2.61	2.61
Petroleum Policy 2007								
Gas Price at 0.2 Gradien	nt							
Zone I & Zone 0	10.00	45.00	3.05	3.01	3.37	3.57	3.61	3.85
Zone II			2.75	2.84	3.11	3.27	3.31	3.55
Zone II			2.50	2.70	2.90	3.02	3.06	3.30
Gas Price at 1.0 Gradien	nt							
Zone I & Zone 0	10.00	45.00	3.05	3.01	3.37	3.65	3.85	5.05
Zone II			2.75	2.84	3.11	3.35	3.55	4.75
Zone II			2.50	2.70	2.90	3.10	3.30	4.50
Petroleum Policy 2009								
Zone 0 (off Shore Deep)			2.89	3.62	4.05	4.34	4.63	5.36
Zone I & Zone 0	30.00	100.00	2.72	3.40	3.81	4.08	4.35	5.03
Zone II			2.54	3.18	3.56	3.82	4.07	4.71
Zone II			2.37	2.96	3.32	3.55	3.79	4.38
Petroleum Policy 2012								
Zone 0 (Ultra Deep)			3.33	5.00	5.83	6.67	7.17	9.00
Zone 0 (Deep)			2.96	4.44	5.18	5.93	6.37	8.00
Zone 0 (Shallow)	30.00	110.00	2.59	3.89	4.54	5.18	5.57	7.00
Zone 1			2.44	3.67	4.28	4.89	5.26	6.60
Zone II			2.33	3.50	4.08	4.67	5.02	6.30
Zone III			2.22	3.33	3.89	4.44	4.78	6.00

Source: Petroleum Policy 2001-2012, IGI Research



Conversion of Blocks to PP12

New discovery in Converted Blocks to be priced under PP12...

In 2015, Government allowed conversion of certain blocks to PP12 which implied that any new discovery in these concessions would be priced under PP12.

...with POL taking the lead in terms of recent discoveries

Major blocks being converted to PP12 include Tal block, Hala, Gambat South, Dhok Sultan and Britism. It is pertinent to mention here that recent discoveries emanated from Tal block (OGDC/PPL/POL stake of 27.8%/27.8%/21.1%), Britism (OGDC 77.5% stake) and, Hala Block (PPL 65% and MARI 35%) which will be priced under PP12.

Exhibit:

Converted Concessions to Petroleum Policy 2012

	PPL			OGDC			MARI			POL	
Lease	Operator	Stake (%)	Lease	Operator	Stake (%)	Lease	Operator	Stake (%)	Lease	Operator	Stake (%)
Gambat South	PPL	65	Tando Allah Yar	OGDC	78	Ziarat	MPCL	60	Tal	MOL	21
Ghauri	MPCL	35	Nim	OGDC	78	Karak	MPCL	60			
Digri	UEPL	25	Sinjhora	OGDC	60	Sukkur	MPCL	59			
Sukhpur	ENI	30	Guddu	OGDC	58	Sujawal	MPCL	100			
Kuzdar	PPL	65	Rachna	OGDC	100	Hanna	MPCL	100			
Kalat	PPL	35	Samandar	OGDC	100	Ghauri	MPCL	35			
Hala	PPL	65	Tegani	OGDC	100	Khetwaro	MPCL	51			
Barkhan	PPL	35	Thal	OGDC	100	Hala	PPL	35			
Zamzama South	PPL	100	Channi Pull	OGDC	100	Kohat	OGDC	20			
Kharan West	PPL	100	Mari East	OGDC	100	Bannu West	Tullow	10			
Kharan East	PPL	100	Lakhi Rud	OGDC	100	Kalchas	OGDC	20			
Kharan	PPL	100	Jandaran West	OGDC	100	Kohlu	OGDC	30			
Dhok Sultan	PPL	75	Fateh Jang	OGDC	100	Zindan	PPL	35			
Kotri	PPL	100	Latambar	OGDC	100						
Zindan	PPL	35	Mianwali	OGDC	100						
Sirani	PPL	75	Saruna	OGDC	100						
Kotri North	PPL	90	Shaan	OGDC	100						
Jungshahi	PPL	100	Shahana	OGDC	100						
Kandhkot East	PPL	100	Wali	OGDC	100						
Latif	OMV	33	Soghri	OGDC	100						
Tal	MOL	28	Kohat	OGDC	30						
Jati	KPBV	25	Kalchas	OGDC	50						
			Kohlu	OGDC	40						
			Bitrisim	OGDC	78						
			Khewari	OGDC	75						
			Gurgalot	OGDC	66						

Source: IGI Research, PPIS, Company Financials, Bloomberg



Oil Price Outlook

Oil price run already in place

Based on a positive outcome of OPEC meeting in Vienna, we expect Arab Light price to augment more compared to WTI and Brent. As the duration of agreement is for six months we expect Arab Light to reach and remain range bound between USD 50-55/bbl. and average USD 50/bbl. for FY17. However, as WTI has crossed USD 50/bbl. mark and US shale oil production is expected to resume we anticipate limited gains in oil price going forward keeping prices in check. Moreover, Saudi Arabia need USD 57/bbl oil price to breakeven its current account balance and may have to ramp up production in long term once US shale oil production starts to rise. (see Annexure: 2/3)

Exhibit:

WTI Crude Oil Price Forecast

USD/bbl	IMF	World Bank	Average
2017	50.6	55.2	52.9
2018	53.1	59.9	56.5
2019	54.4	62.7	58.5
2020	56.3	65.6	60.9

Source: IGI Research, OPEC, World Bank, EIA

POL remains highly sensitive to oil price movement

With every USD 5/bbl increase in oil price, POL's remain most sensitive with 9% and 5% increase in earnings and target price, respectively. Whereas, OGDC is least sensitive to oil price volatility with 4.7% and 3.2% rise in earnings and target price.

Exhibit:

Oil Price Sensitivity

	El	PS		T	Р	
PKR	USD 50/bbl	USD 55/bbl	Change (%)	USD 50/bbl	USD 55/bbl	Change (%)
OGDC	18.4	19.4	5.3%	196.2	202.6	3.3%
PPL	18.7	20.0	6.9%	218.3	229.2	5.0%
POL	42.6	46.6	9.2%	543.8	572.8	5.3%
MARI	104.5	110.5	5.7%	1,538.8	1,591.9	3.4%

Source: IGI Research





Exhibit:

Oil Demand And Supply in 2017 - (OPEC: Nov-16)

mn 'bopd	1Q16	2Q16	3Q16	4Q16	2016	1Q17	2Q17	3Q17	4Q17	2017
World Demand										
OECD	46.8	46.3	47.0	46.6	46.7	46.9	46.3	47.2	46.8	46.8
Americas	24.6	24.7	25.1	24.8	24.8	24.8	24.9	25.3	25.0	25.0
Europe	13.6	13.9	14.2	13.7	13.9	13.6	13.9	14.3	13.8	13.9
Asia Pacific	8.6	7.6	7.6	8.1	8.0	8.5	7.6	7.6	8.0	7.9
DCs	30.7	31.0	31.7	31.3	31.2	31.3	31.7	32.3	32.0	31.8
FSU	4.5	4.4	4.7	5.0	4.7	4.6	4.4	4.8	5.1	4.7
Other Europe	0.7	0.6	0.7	8.0	0.7	0.7	0.7	0.7	8.0	0.7
China	10.8	11.4	11.1	11.6	11.2	11.1	11.6	11.4	11.9	11.5
Total World demand	93.5	93.7	95.1	95.3	94.4	94.6	94.7	96.4	96.5	95.5
Non-OPEC Supply										
OECD	25.4	24.3	24.5	24.7	24.7	24.7	24.5	24.3	24.7	24.6
Americas	21.1	20.1	20.5	20.5	20.5	20.4	20.3	20.3	20.5	20.4
Europe	3.9	3.7	3.6	3.8	3.7	3.9	3.7	3.5	3.8	3.7
Asia Pacific	0.4	0.4	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.4
DCs	11.1	11.1	11.3	11.4	11.2	11.4	11.5	11.5	11.6	11.5
FSU	14.0	13.7	13.7	14.0	13.9	14.1	13.9	14.0	14.1	14.0
Other Europe	0.1	0.1	0.1	0.1	1.1	1.1	1.2	0.2	0.2	0.2
China	4.2	4.1	4.0	4.0	4.1	4.0	4.0	4.0	4.0	4.0
Processing Gains	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Total Non-OPEC Supply	55.5	55.8	56.5	56.2	56.2	56.7	56.2	56.1	56.8	56.4
OPEC NGLs + Non-Conventional oil	6.2	6.3	6.3	6.3	6.3	6.4	6.4	6.4	6.5	6.4
Non-OPEC Supply	63.2	61.8	62.1	62.8	62.5	63.0	62.6	62.5	63.3	62.9
OPEC Production *	32.5	32.8	33.3	-	32.5	32.5	32.5	32.5	32.5	32.5
Total Supply	95.7	94.6	95.4	62.8	95.0	95.5	95.1	95.0	95.8	95.4

Source: OPEC, * IGI Estimate for OPEC production from 4Q16 onwards



Our long term price assumption for Arab Light stays intact at USD 50/bbl

Our long term price assumption remains at USD 50/bbl (see <u>Annexure</u>:1). Arguably multiple factors seep into oil price forecast, but we highlight factors that could keep price under pressure.

- a. Weaker Global Growth outlook specially declining growth of China and U.S,
- b. Shale oil production would keep oil supply in excess of demand,
- c. Rising U.S rig count, d) Russia able to balance its budget at USD 40/bbl oil price,
- d. Saudi Arab needing USD 57/bbl to breakeven and as a result would have to ramp up its production if output rises elsewhere, and
- e. Potential production increase from Nigeria and Libya.

Inception of Oil Supply Glut in 2014

Oil price declined by nearly 58% since oil supply glut in 2014

Oil prices fell by nearly 58% (WTI) from Jul-14 onwards to reach USD 44/bbl in Jan-15 when OPEC decided to raise its output as a threat to retain its market share from rising U.S shale oil production. Since then prices have been hovering between USD 30-55/bbl while touching a low of USD 26/bbl in Feb-16.

OPEC raised production and started offering price discount to its customers to retain market share, while U.S production on rise since 2008 and sputtering demand from China and Europe triggered the steep price decline.

Recent recovery in Commodity and Oil prices...

However, oil prices have gained nearly 19% to USD 53.8/bbl in Dec-16 since OPEC and Non-OPEC members agreed on a production cut in Nov-16. This stability in oil prices emanated from expected improved demand from China later in 2017.

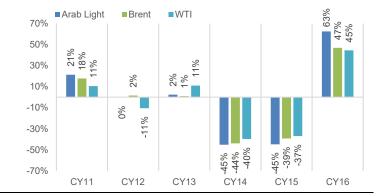
Exhibit:

Oil prices down by nearly 58% since Jul-14 - (USD/bbl)



Exhibit

Oil prices posted highest returns in CY16 in last 6Yrs - (USD/bbl)





...optimism over fading China headwinds

By the end of 2014, global commodity prices plunged as pessimism weighed on China's growth outlook, this was further enforced by slowdown in EU and US economies latter in 2015. However, this pessimism was short-lived, as such by 2016 commodity prices recovered. Improved demand outlook of China and recovery in US and Emerging Market economic outlook.

China demand outlook still stagnant, meaning limited upside for oil prices

China's GDP growth is expected to flatten out to 6.3% by 2018 from 6.9% in 2015 according to World Bank estimates (see Annexure: 4). According to OPEC Monthly Report published in Dec-16, China's GDP growth is expected to drop to 6.2% in 2017. Based on slowdown in China's GDP growth and deteriorating trade account balance, headwinds from China are likely weigh on oil prices going forward, in our view.

Exhibit

China GDP Growth slowdown



Source: IGI Research, IMF



US oil production stands at all-time high with rig count increasing

Second to China growth is the US oil production. US oil production has been on a consistent rise since 2008 after dropping to as low as 3.8mnbopd in Sep-08. US oil production peaked in Jun-15 to reach 9.6mnbopd and dropped to 8.4mnbopd in Jul-16. Since Jul-16 US oil production has increased steadily by +4% to reach 8.8mnbopd in Dec-16. Furthermore, US oil rig count has been piling up since Jul-16 as well. Given increasing US rig counts, US conventional oil production is expected to rise further in 2017 and beyond, and we believe this to will keep a price lid on oil price run.

Exhibit:

US Production at a nearly all time high level

Weekly U.S. Field Production of Crude Oil (Thousand Barrels per Day) 10,000 4,000 4,000 2,000 4,000 2,000 4,000 2,000 4,000 2,000 4,000 2,000 4,000 2,000 4,000 2,000 4,000 2,000 4,000 2,000 4,000

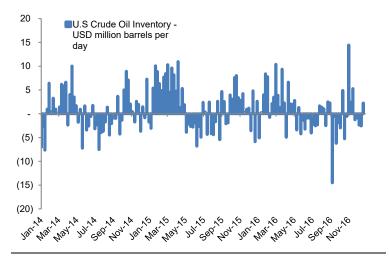
Exhibit:

US Rig count on the rise for over six months



Exhibit-

U.S Crude Oil inventory pile up keeping prices in check





US Shale Production underway; having a breakeven cost between USD 50-60/bbl

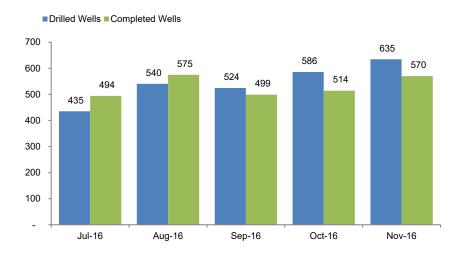
For some shale oil producers, breakeven cost stands as low as USD 30/bbl. The most important shale oil county which comes in to play when oil (WTI) crosses USD 50/bbl mark is Eagle Ford. Breakeven price ranges between USD 45-55/bbl. Therefore, when oil crossed USD 40/bbl, most of the shale oil producers have already initiated drilling in Dec-16 and may well be online within next six months. (see *Annexure:2*)

Production commencement may take some time

Although when oil price crosses breakeven cost of shale oil producers, production commencement by producers may take from 6 months to 1 year to start production owing to the complex nature of drilling and high cost. We expect oil prices to remain upbeat during CY17 but from CY18 once shale production starts prices may come under pressure.

Exhibit:

US Shale Drilling activity on a rise since Sep-16

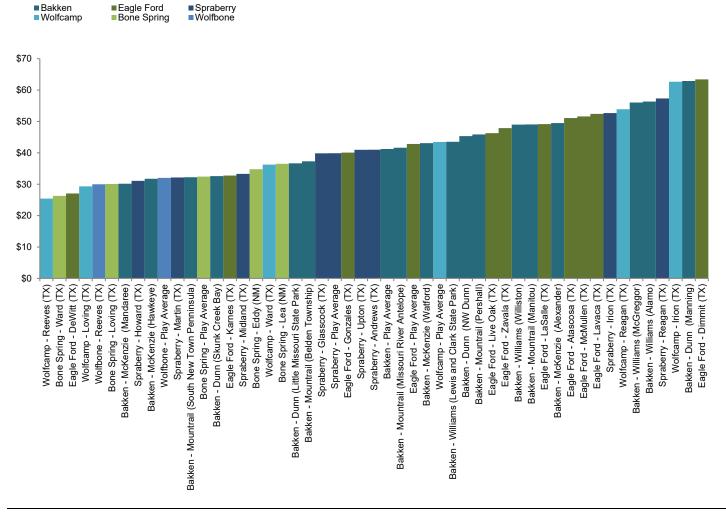


Thursday, 12 January 2017



Exhibit:

Breakeven Oil prices for U.S Shale Producers





OPEC Vienna meeting end on a mutual consensus to curb production...

Lastly, Organization of the Petroleum Exporting Countries (OPEC) held its meeting on 30th Nov-16 in Vienna (Austria) ended with a mutual agreement between OPEC members to curb production by 1.2mnbopd (which is the first production cut since 2008) to 32.5mnbopd. In addition, Non-OPEC members including Russia will curb production by 0.56mn bopd.

According to OPEC press release major highlights of the meeting were:

- a. Iran allowed to raise output to 3.9mnbopd
- b. The agreement will be effective from 1st Jan-17 for a period of six months after which agreement will be reviewed and can be extended for further six months
- c. Indonesia suspended from OPEC membership and its production cut share to be distributed amongst existing members

Exhibit:

OPEC and Non-OPEC Production Cut schedule

** Non-OPEC Oil Production cut agreed at 558,000bopd including Russia

Member	Ref. Prod.	Chg.	Prod. w.e.f 1-Jan-17
000'bopd			
Algeria	1,089	(50)	1,039
Angola	1,751	(87)	1,664
Ecuador	548	(26)	522
Gabon	202	(9)	193
Indonesia*	-	-	-
Iran	3,975	90	3,797
Iraq	4,561	(210)	4,351
Kuwait	2,838	(131)	2,707
Libya	-	-	-
Nigeria	-	-	-
Qatar	648	(30)	618
Saudi Arabia	10,544	(486)	10,058
U.A.E	3,013	(139)	2,874
Venezuela	2,067	(95)	1,972
Total	31,236	(1,173)	29,795
Non-OPEC		(558)	
Russia		(300)	

Source: IGI Research, OPEC

* Indonesia suspended from OPEC

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...but, implementation remains a key concern

Recently, OPEC members and Russia oil producers have started to inform their buyer of potential cut in production in compliance with the agreement. Although, considering OPEC precedent of previous non-compliance with production cut, we believe this time around OPEC and Non-OPEC members will comply with their agreed production cut in short-term. However, we remain skeptic over long-term compliance with agreed production cuts and may see partial observance in the back of a) Nigeria and Libya not included in the agreed production cut and may possibly increase production after overcoming domestic disruptions offsetting the impact of overall production cut, b) oil producers have suffered constrained budgets for the last 2.5yrs and therefore temptation will be strong to open the taps a little to get the money flowing again and, c) commencement of shale oil production to keep prices under pressure.

Key points to monitor in 2017

- a. Compliance within OPEC, which, as former Saudi Arabian oil minister Ali bin Ibrahim Al-Naimi noted after the deal was announced, can be quite poor
- b. Whether non-OPEC producers contribute additional cuts above and beyond what was already expected due to underinvestment (e.g., any cut that includes Mexican production should be discounted)
- c. Rising U.S rig count and how much output the U.S. and other "short cycle" producers bring online, given that higher prices will send investment signals
- d. Whether higher prices dampen future demand growth, given solid year-overyear price gains, particularly when denominated in most non-U.S. dollar currencies
- e. Whether OPEC producers ramp up output at the end of the deal's term to meet peak summer demand and refinery requirements, reducing the ultimate market impact
- f. Libya and Nigeria ramping up production post domestic disruptions



COMPANY UPDATE

Oil & Gas Dev.Co									
Oil & Gas Exploration Companies									
Recommendation		BUY							
Target Price			196.2						
Last Closing			168.2						
Upside			17%						
Market Data									
Bloomberg Tkr.	OGDC PA								
Shares (mn)			4,300.9						
Market Cap (PKRbn USD)	mn)	723.2	6,888.4						
Exchange			KSE 100						
Price Info.	90D	180D	365D						
Abs. Return	17.9	15.6	58.4						
Low	140.0	134.3	95.6						
High	170.7	170.7	170.7						
V	I_								

Key Company Financials

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Period End: Jun				
PKRbn	FY16A	FY17E	FY18F	FY19F
Total Revenue	162.9	209.0	238.7	227.8
Net Income	59.97	79.5	89.9	83.3
EPS (PKR)	13.9	18.5	20.9	19.4
DPS (PKR)	5.2	7.0	8.0	7.5
Total Assets	589.6	651.5	711.6	766.5
Total Equity	478.6	528.9	585.7	638.3
Key Financial F	Ratios			
ROE (%)	12.5	15.0	15.3	13.0
P/E (x)	12.1	9.1	8.0	8.7
P/B (x)	1.5	1.4	1.2	1.1
DY (%)	3.1	4.2	4.8	4.5

Relative Price Performance & Shareholding



About the Company

The Company was incorporated on October 23, 1997 and is engaged in the exploration and development of oil and gas resources, including production and sale of oil and gas and related activities. Its GDS are listed on the London Stock Exchange.

Source: Bloomberg, KSE 100 & IGI Research

Abdullah Farhan

Research Analyst abdullah.farhan@igi.com.pk Tel: (+92-21) 111-234-234 Ext.: 912

Oil & Gas Development Company

Underperformance excessive; production growth still a possibility; up to Buy

Investment Case

We forecast profitability to grow by 3yr CAGR of +12% from FY16-FY19F owing to a) total production to increase by +10%YoY in FY17F, b) Total additional production is estimated to lift earnings by PKR 2.63/share in FY17, and c) inclusion in MSCI EM Index. We estimate +32%YoY jump in earnings in FY17 to the tune of PKR 79.4bn (EPS PKR 18.5).

Inclusion of OGDC in MSCI EM Index; cheaper multiple in comparison

OGDC has been included in MSCI EM index (effective May-17) and categorized under large cap. The company trades at cheaper multiple compared to regional companies with FY17F P/E of 8.6x.

Oil and gas production to augment by +14%YoY and +9%YoY in FY17F

The company's total oil and gas production is expected to rise by +14%YoY and +9%YoY in FY17F to reach total production of 100mnBoE on the back of additional production of 6,016bopd of oil and 151.3mmcfd of gas.

Additional Oil & Gas production to jack up earnings in FY17

Total additional production is estimated to lift earnings by PKR 2.63/share in FY17. Expected completion of Kunar Pasakhi Deep-Tando Allah Yar (KPD-TAY) phase-II project in Jan-17 which should lift oil and gas volumes from 2QFY17 onwards. We expect KPD-TAY Phase-II project to contribute additional production of 4,000bbls of oil, 125mmcf of gas and 410 tons of LPG. Nashpa/Mela Development project is estimated to be completed by Jun-17, which would provide incremental production of 10mmcfd of gas, 340MTD of LPG and 1,120bopd of crude in FY18. Development project at Uch-II is expected to come online from 3QFY17 providing additional gas production of 100-130mmcfd translating in to expected annualized earnings impact of PKR 0.72/share. According to management, production from Mardankhel in Tal block commenced in Nov-16, which is anticipated to contribute additional +2% and +1% to oil and gas production, respectively in FY17.

Recent Discoveries

OGDC has drilled and tested 6 wells in FY17TD and encountered 5 discoveries (company operated) as compared to total 26 wells drilled in FY16 with a total of 6 discoveries. Three new wells have been discovered in FY17TD which include Mithri-1 (Khewari Block, 75% stake), Gundanwari-1 (Britism, 77.5% stake) and Khamiso-1 (Guddu, 57.8% stake) having cumulative annualized earnings impact of PKR 0.41/share. The company plans on drilling 26 new well (16 exploratory and 10 developments well) in FY17.

Recommendation

We maintain our "BUY" call on OGDC with our Dec-17 target price of PKR 196/share, offering +17% upside from its last closing. The company is currently trading at a FY17E P/E of 9.1x and implied oil price of USD 29.5/bbl.



Graphical Snapshot

Exhibit: Additional oil production to provide support to declining oil output in FY17E

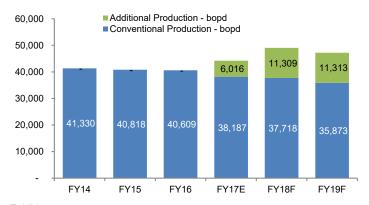
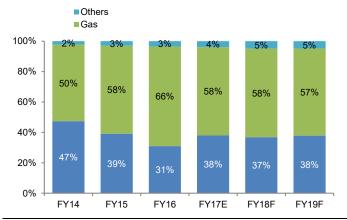


Exhibit:

Revenue contribution of Oil and Gas



Source: IGI Research, Company Financials.

Exhibit:

Gas production to pick up in FY17 primarily owing to Uch and KPD-TAY projects coming online

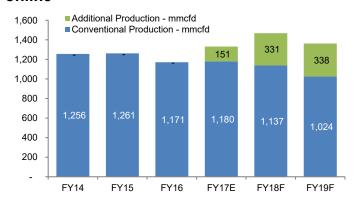
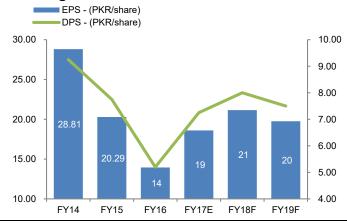


Exhibit:

Earnings and Dividend Forecast





Valuation

Using Reserve Based Discounted Cash Flow approach, our Dec-17 Target Price of PKR 196/share, with a cost of equity of 13.5% (risk-free rate = 6.25%, beta 1.12 and risk premium 6.50%). The scrip offers +17% return from its last closing price of PKR 168/share.

Valuation Parameters

Risk free Rate	6.25%
Beta (3yr)	1.08
Risk Premium	6.50%
CAPM (CoE)	13.27%

	Jun-17	Jun-18	Jun-19	Jun-20	Jun-21	Jun-22	Jun-23	Jun-24	Jun-25
PKRmn	F	F	F	F	F	F	F	F	F
Exchange Rate	105.3	108.0	110.7	113.4	116.3	119.2	122.2	125.2	128.3
Arab Light (USD/bbl)	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
Total Oil Production (bbl)	16,133,949	17,895,080	17,222,799	16,542,446	16,410,391	14,554,136	12,620,034	6,737,787	6,287,834
Total Oil Revenue	79,878	88,880	87,680	86,322	87,773	79,791	70,917	38,809	37,123
Total Gas Production (mmcf)	480,930	526,017	482,831	474,352	462,502	446,175	417,818	274,871	266,857
Total Gas Revenue	109,815	125,433	117,164	118,506	117,003	116,200	109,968	64,046	64,336
LPG & other Revenue	8,292	11,838	11,283	10,755	10,254	9,778	9,326	4,008	3,845
Total Revenue	208,967	238,695	227,843	227,434	226,731	217,389	201,208	113,268	111,737
Less Royalty	(23,196)	(26,496)	(25,291)	(25,246)	(25,168)	(24,131)	(22,335)	(12,573)	(12,403)
Less Operating Expense	(40,463)	(45,519)	(46,568)	(48,597)	(50,885)	(52,645)	(54,095)	(49,654)	(52,962)
Less Taxation	(27,975)	(31,715)	(29,386)	(28,789)	(28,056)	(25,761)	(22,333)	(6,872)	(4,275)
Other Income	15,157	13,563	15,111	16,676	18,148	19,636	21,629	25,378	21,213
Net Cash flow	132,490	148,528	141,709	141,478	140,770	134,489	124,074	69,547	63,310
PV of Cash flows	132,490	136,447	114,006	99,642	86,821	72,636	58,681	28,793	22,917

Sum of cash flows 190.22
Cash 1.84
Outstanding Shares 4,300.93

Target Price (Dec-17) - PKR 196.18



Financial Summary

Oil & Gas Development Company Limited (OGDC)

Current Price (PKR):	168		Target Pr	ice (PKR):	196	Upside	17%		Recon	nmendation	BUY
Jun-end	FY15A	FY16A	FY17E	FY18F	FY19F	Jun-end	FY15A	FY16A	FY17E	FY18F	FY19F
Income Statement Items (P	KRmn)					Valuation Ratios					
Net Sales	210,625	162,867	208,967	238,695	227,843	EPS (PKR)	20.29	13.94	18.47	20.90	19.37
Royalty	23,737	18,079	23,196	26,496	25,291	DPS (PKR)	7.75	5.20	7.02	7.94	7.36
Operating Costs	52,935	54,986	65,465	73,610	74,831	BVPS (PKR)	102.89	111.29	122.96	136.17	148.40
Gross Profit	131,967	87,890	117,852	135,786	125,046	P/E (x)	8.28	12.04	9.09	8.04	8.67
Exploration Costs	11,628	14,548	15,276	15,734	16,206	P/EBITDA (x)	4.77	6.92	5.30	4.69	4.98
Other Income	19,186	14,703	15,157	13,563	15,111	D/Y (%)	4.64	3.10	4.17	4.70	4.41
Finance Costs	2,550	1,718	1,807	1,896	1,985	P/B (x)	1.63	1.51	1.37	1.23	1.13
Pre-tax Profits	127,025	80,507	107,430	121,607	112,677	Earnings Growth (%)	(29.59)	(31.26)	32.49	13.14	(7.34)
Post- Tax Profits	87,249	59,971	79,455	89,892	83,291	ROE (%)	19.72	12.53	15.02	15.35	13.05
Balance Sheet Items (PKRn	nn)					ROA (%)	15.75	10.17	12.20	12.63	10.87
PPE	109,984	120,542	142,796	165,804	188,419	Cash / Share	3.02	1.84	3.41	2.28	8.13
D/P Asset	78,261	87,991	96,047	107,806	117,780	Margins					
Expl & Eval Assets	8,139	6,834	5,972	4,843	3,848	Gross Margins (%)	62.65	53.96	56.40	56.89	54.88
Non-Current Assets	137,629	119,397	118,408	140,855	134,406	EBIT Margin (%)	61.52	50.49	52.27	51.74	50.32
Trade Debts	121,411	111,204	142,681	162,979	155,570	Net Profit Margins (%)	41.42	36.82	38.02	37.66	36.56
Cash	13,003	7,904	14,651	9,827	34,960	Macro- Assumption					
Current Assets	219,779	254,801	288,300	292,264	321,999	Oil (USD/bbl)	72.5	40.7	50.0	50.0	50.0
Total Assets	553,791	589,566	651,522	711,573	766,451	PKR/USD	101.4	104.3	105.3	108.0	110.7
Trade & Other Payables	61,902	58,969	61,707	58,930	59,561	Production (boe) '00	0				
Current Liabilities	61,902	58,969	61,707	58,930	59,561	Total Production	87,642	82,029	99,990	109,613	101,411
Non current liabilities	49,368	51,964	60,961	66,974	68,630	Oil (bbl)	14,899	14,822	16,134	17,895	17,223
Total Equity	442,521	478,633	528,854	585,669	638,260	Gas (boe)	72,743	67,206	83,856	91,718	84,188
Cash Flow Items (PKRmn)						•					
Operating CF	106,304	90,273	75,440	97,459	125,316						
Investing CF	(51,756)	(71,035)	(47,497)	(74,138)	(70,188)						
Financing CF	(36,480)	(19,769)	(21,195)	(28,146)	(29,994)						

Source: IGI Research, Company Financials Updated as of : 1/10/2017



COMPANY UPDATE

Mari Petroleum Company Lim	ited
Oil & Gas Exploration Companies	
Recommendation	BUY
Target Price	1,538.8
Last Closing	1,363.8
Upside	13%
Market Data	
Bloomberg Tkr.	MARI PA
Shares (mn)	110.3

Shares (mn)			110.3
Market Cap (PKRbn USD	150.4	1,432.1	
Exchange			KSE 100
Price Info.	90D	180D	365D
Abs. Return	38.8	41.8	94.2
Low	964.9	931.1	575.8
High	1,446.9	1,446.9	1,446.9

Key Company Financials

Period End: Jun

FY16A	FY17E	FY18F	FY19F
21.7	36.7	43.5	46.8
6.05	11.5	14.7	16.4
54.9	104.5	133.5	148.8
5.1	5.8	5.9	5.9
59.6	87.3	111.1	130.1
17.0	17.3	31.3	47.1
Ratios			
35.7	66.8	47.0	34.8
24.8	13.0	10.2	9.2
8.9	8.7	4.8	3.2
0.4	0.4	0.4	0.4
	21.7 6.05 54.9 5.1 59.6 17.0 Ratios 35.7 24.8 8.9	21.7 36.7 6.05 11.5 54.9 104.5 5.1 5.8 59.6 87.3 17.0 17.3 Ratios 35.7 66.8 24.8 13.0 8.9 8.7	21.7 36.7 43.5 6.05 11.5 14.7 54.9 104.5 133.5 5.1 5.8 5.9 59.6 87.3 111.1 17.0 17.3 31.3 Ratios 35.7 66.8 47.0 24.8 13.0 10.2 8.9 8.7 4.8

Relative Price Performance & Shareholding



About the Company

The Company is a public limited company incorporated in Pakistan in 1984. The principal activity of the company exploration, production and sale of hydrocarbons. The company was listed on all stock exchanges in Pakistan when GoP divested 50% of its stake to Fauji Foundation.

Source: Bloomberg, KSE 100 & IGI Research

Abdullah Farhan

Research Analyst abdullah.farhan@igi.com.pk Tel: (+92-21) 111-234-234 Ext.: 912

Mari Petroleum Limited

Impressive earning growth still an appeal; albeit priced in

Investment Case

We forecast profitability to grow by 3yr CAGR of +31% from FY17-FY19F owing to a) gradual decline in discount to wellhead price after every six months leading to 100% of wellhead gas price by FY19, b) increase in production from 607mmcfd in FY16E to 652mmcfd by FY19F and, c) 10% incremental production over 525mmcfd (including 10%) to be priced under PP12. We estimate +90%/+20%YoY jump in earnings in FY17/FY18 to the tune of PKR 104.5/ PKR 133.5 per share.

Revised GPA for Mari gas field offers gradual up lift in wellhead price

Under the revised GPA, Mari gas field's cost plus pricing formula has been replaced with international crude price linked formula, at a stated discount to price under Petroleum Policy 2001 (PP01). The discount would gradually decrease every six months to offer higher wellhead gas price. Based on our estimates, this alone will result in incremental earnings of PKR 14.9/share (14% of FY17 EPS).

Incremental production for Mari field to be priced under PP12

Under the agreement, production exceeding by 10% from benchmark of 525mmcfd (including 10%) is entitled for higher gas price under Petroleum Policy 2012 (PP12). For FY16, production from Mari gas field stood at 605mmcfd, which was ~+15% above benchmark. According to management, the company plans on increasing production from Mari field by 45mmcfd in FY17 to reach 650mmcfd. Based on our estimates, addition of 45mmcfd would augment earnings by PKR 18.7/share in FY17. Production from Mari field in FY17TD stands at 645mmcfd.

Additional Production to lift earnings by PKR 3.4/share in FY17

Oil and gas discoveries from Kalabagh 1-A (840bopd of oil and 7.98mmcfd of gas) is foreseen to come online in FY17 having earnings impact of PKR 3.4/share, while Shahbaz X-1 and Bashar X-1 are expected to come online in FY18 with a cumulative gas potential of 19.57mmcfd having earnings impact of PKR 6.7/share in FY18F. Production from Halini Deep-1 commenced in May-16 which is expected to lift earnings by PKR 6.4/share in FY17.

Dividend payout to remain restricted under covenant binding

We expect the company's dividend payout to remain static as current payout policy is linked with production till FY24. Every 20mmcfd increase in production from 425mmcfd entitles 1% additional return to shareholders over and above a 30% return on production up to 425mmcfd. We expect higher dividends post FY24 to the tune of PKR 63/share in FY25.

Recommendation

We maintain our **"BUY"** call on MARI with our Dec-17 with target price of PKR 1,539/share, offering +13% upside from its last closing. The company is currently trading at a FY17E P/E of 13.0x and implied oil price of USD 37.1/bbl.



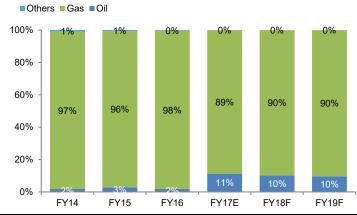
Graphical Snapshot

Exhibit: MARI Wellhead price discount to gradually increase every six month



Exhibit:

Gas contributes nearly ~90% tot the company's total revenue mix



Source: IGI Research, Company Financials.

Gas production increase owing to higher production from Mari Field

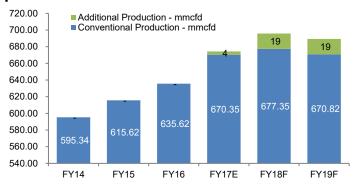
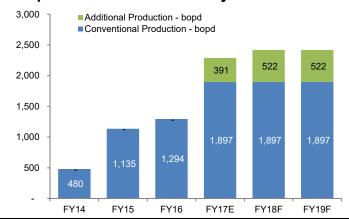


Exhibit:

Oil production is all set to increase as Halini Deep comes online back May-16





Valuation

Using Reserve based Discounted Cash Flow approach, our Dec-16 Target Price of PKR 1,539/share, with a cost of equity of 14.0% (risk-free rate = 6.25%, beta 1.19 and risk premium 6.50%). The scrip offers +13% return from its last closing price of PKR 1,363/share.

Valuation Parameters

WACC	14.0%
Risk free Rate	6.25%
Beta (3yr)	1.19
Risk Premium	6.50%
CAPM (CoE)	14.0%

	Jun-17	Jun-18	Jun-19	Jun-20	Jun-21	Jun-22	Jun-23	Jun-24	Jun-25
PKRmn	F	F	F	F	F	F	F	F	F
Exchange Rate	105.3	108.0	110.7	113.4	116.3	119.2	122.2	125.2	128.3
Arab Light (USD/bbl)	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
Total Oil Production (bbl)	835,227	882,814	882,814	882,814	882,814	882,814	807,221	610,350	9,911
Total Oil Revenue	4,135	4,385	4,494	4,607	4,722	4,840	4,536	3,516	59
Total Gas Production (mmcf)	246,145	253,988	251,606	249,500	246,711	246,711	246,711	239,657	239,657
Total Gas Revenue	32,543	39,064	42,263	43,427	43,644	44,735	45,853	43,956	45,055
Total LPG Revenue	2	2	2	2	2	2	2	2	2
Total Revenue	36,680	43,450	46,759	48,035	48,367	49,577	50,391	47,473	45,115
Less Royalty	4,646	5,503	5,922	6,084	6,126	6,279	6,382	6,013	5,714
Less Operating Expense	8,630	10,165	10,926	11,221	11,295	11,565	11,742	11,069	10,520
Less Taxation	4,422	5,848	6,571	6,934	7,133	7,494	7,786	7,336	6,913
Other Income	448	499	364	304	297	240	190	103	226
Net Cash flow	19,431	22,434	23,704	24,100	24,110	24,478	24,671	23,158	22,194
PV of Cash flows	19,431	21,016	19,482	17,371	15,246	13,579	12,008	9,885	8,311
Sum of cash flows	163 821								

Sum of cash flows	163,821
Cash	4,901
Sum of Cash flows	1,533
Cash	5.7
Outstanding Shares	110.3

Target Price (Dec-17) - PKR 1,539



Financial Summary

Mari Petroleum Limited (MARI)

Current Price (PKR):	1,363		Target Pr	ice (PKR):	1,539	Upside	13%		Recommendation		BUY
Jun-end	FY15A	FY16A	FY17E	FY18F	FY19F	Jun-end	FY15A	FY16A	FY17E	FY18F	FY19F
Income Statement Items (PKRmn)					Valuation Ratios						
Net Sales	19,376	21,713	36,680	43,450	46,759	EPS (PKR)	51.25	54.89	104.52	133.49	148.78
Royalty	2,519	2,750	4,646	5,503	5,922	DPS (PKR)	5.22	5.10	5.80	5.90	5.90
Operating Costs	5,396	5,791	9,051	10,577	11,397	BVPS (PKR)	104.27	153.89	156.57	284.15	427.05
Exploration Costs	3,194	6,462	6,623	6,791	6,901	P/E (x)	26.60	24.83	13.04	10.21	9.16
Gross Profit	7,768	6,208	15,512	19,574	21,458	P/EBITDA (x)	17.39	19.10	8.72	6.99	6.43
Other Income	55	587	448	499	364	D/Y (%)	0.38	0.37	0.43	0.43	0.43
Finance Costs	1,788	574	776	725	751	P/B (x)	13.07	8.86	8.71	4.80	3.19
Pre-tax Profits	6,552	6,561	15,944	20,566	22,973	Earnings Growth (%)	43.29	7.10	90.41	27.72	11.45
Post- Tax Profits	5,650	6,051	11,523	14,717	16,403	ROE (%)	119.72	88.00	118.13	112.70	87.38
Balance Sheet Items	(PKRmn)				ROA (%)	27.10	29.00	32.53	34.24	25.37
PPE	9,775	11,023	11,968	12,141	12,615	Cash / Share	44.45	5.68	32.99	146.28	252.88
D/P Asset	2,188	3,002	3,391	3,570	3,788	Margins					
Expl & Eval Assets	9,400	10,084	11,364	12,997	14,954	Gross Margins (%)	40.09	28.59	42.29	45.05	45.89
Non-Current Assets	23,786	26,832	31,532	32,726	34,856	EBIT Margin (%)	40.37	31.29	43.51	46.20	46.67
Trade Debts	32,355	26,887	44,301	52,984	57,238	Net Profit Margins (%)	29.16	27.87	31.41	33.87	35.08
Cash	4,901	626	3,637	16,127	27,880	Macro- Assumption					
Current Assets	41,868	32,727	55,777	78,329	95,195	Oil (USD/bbl)	72.5	40.7	50.0	50.0	50.0
Total Assets	65,654	59,560	87,309	111,055	130,051	PKR/USD	101.4	104.3	105.3	108.0	110.7
Trade & Other Payable	36,656	34,669	55,136	65,551	70,698	Production (boe) '000					
Current Liabilities	39,399	35,017	57,030	68,239	73,280	Total Production	39,594	40,925	43,754	45,169	44,754
Non current liabilities	54,158	42,594	70,047	79,728	82,969	Oil (bbl)	414.4	472.4	835.2	882.8	882.8
Total Equity	11,496	16,966	17,262	31,327	47,082	Gas (boe)	39,179.4	40,452.2	42,918.5	44,286.2	43,870.9
Cash Flow Items (PK	(Rmn)										
Operating CF	6,805	8,183	15,252	17,843	18,491						
Investing CF	(5,947)	(4,693)	(6,454)	(3,172)	(4,291)						
Financing CF	(576)	(6,986)	(5,786)	(2,181)	(2,448)						

Source: IGI Research, Company Financials Updated as of : 1/10/2017



COMPANY UPDATE

Pak Petroleum Ltd.

Oil & Gas Exploration Companies

Last Closing 11-Jan-17 184.4 Upside 18.4 Market Data Bloomberg Tkr. PPL PA Shares (mn) 1,971.7 Market Cap (PKRbn USDmn) 363.6 3,470.0							
Recommend	dation			BUY			
Target Price				218.3			
Last Closing	11-Jan-17			184.4			
Upside				18.4			
Market Data							
Bloomberg Tkr.		PPL PA					
Shares (mn)				1,971.7			
Market Cap (PK	Rbn USDmn)	363.6	3,470.0			
Exchange				KSE 100			
Price Info.		90D	180D	365D			
Abs. Return		17.6	8.9	61.7			
Low		148.4	148.4	101.1			
High		193.3	193.3	193.3			

Key Company Financials

Period End: Jun

Period End: Jun									
PKRbn	FY16A	FY17E	FY18F	FY19F					
Total Revenue	79.9	119.2	130.1	127.1					
Net Income	20.75	36.8	40.4	38.5					
EPS (PKR)	10.5	18.7	20.5	19.5					
DPS (PKR)	4.8	8.3	9.0	8.5					
Total Assets	256.7	291.1	319.5	340.2					
Total Equity	204.4	225.1	247.7	269.2					
Key Financial Ratios									
ROE(%)	10.2	16.3	16.3	14.3					
P/E (x)	17.5	9.9	9.0	9.4					
P/B (x)	1.8	1.6	1.5	1.4					
DY (%)	2.6	4.5	4.9	4.6					

Relative Price Performance & Shareholding



About the Company

The Company was incorporated in Pakistan in 1950 with the main objectives of conducting exploration, prospecting, development and production of oil and natural gas resources.

Source: Bloomberg, KSE 100 & IGI Research

Abdullah Farhan

Research Analyst abdullah.farhan@igi.com.pk Tel: (+92-21) 111-234-234 Ext.: 912

Pakistan Petroleum Limited

When The Going Gets Tough, The Tough Gets Going

Investment Case

We forecast profitability to grow by 3yr CAGR of +19% from FY17E-FY19F owing to a) extension of Sui lease and wellhead price linked with petroleum Policy 2012, b) total production to increase by +8%YoY in FY17F, and c) total additional production is estimated to lift earnings by PKR 2.7/share in FY17. We estimate +65%/+10%YoY jump in earnings in FY17/FY18 to the tune of PKR 18.7/ PKR 20.5 per share.

The Impairment Dilemma

The company financial accounts for FY16 have been delayed due to difference arising in valuation of MND Exploration and production limited (MND) at the date of acquisition conducted by the Consultant and PPL. The management is in discussion with the consultant to assess if any impairment is necessary as of Jun-16. According to the management, impairment amount could range between 0-4bn. Based on impairment of PKR 4bn we expect FY16E earnings to trim down by PKR 2.03/share to PKR 9.28/share. The company is seeking approval from Securities and Exchange Commission of Pakistan (SECP) to adjust impairment charge against FY15 profitability.

Total Production to augment by +8%YoY in FY17F to 63mnBoE

The company's total production is expected to rise by +8%YoY in FY17F to 63mnBoE on the back of additional production of 2,556bopd of oil and 65.2mmcfd of gas. Total additional production is expected to add PKR 2.7/share in FY17. Two new wells have been discovered in FY17TD which include Hadi X-1A (Gambat South, 65% stake) and Bashar X-1 St (Hala Block, 65% stake) having cumulative annualized earnings impact of PKR 0.21/share.

Sui Lease extension most likely; New terms of the contract

According to media reports, Federal Government and Government of Baluchistan have agreed to enter in to a new Gas Price agreement (GSA) which expired last year in Jun-15 after which Pakistan Petroleum Limited's (PPL) largest gas producing asset, Sui was granted a provisional extension of 1 year. Federal Government has allowed a further 6-month extension. A memorandum of agreement (MoA) has been signed on May 20, 2016 between MP&NR and the Government of Baluchistan, which is subject to approval of the respective forums. Under the new agreement, Sui will be granted 10-year lease extension which will be effective from Jun-15. One of the key highlights of the lease contract is linking of wellhead gas price of Sui field with Petroleum Policy 2012 (PP12). Based on new pricing policy, we estimate incremental earning impact of PKR 4-5/share. Furthermore, an additional 10% lease extension bonus will be charged as royalty at 55% indexation of the PP12 wellhead price or 12.5% of the total wellhead price under PP12.

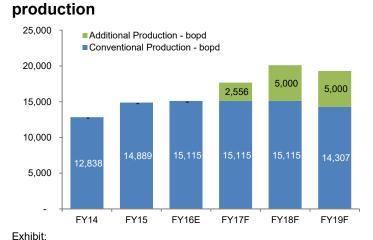
Recommendation

We maintain our **"BUY"** call on PPL with our Dec-17 with target price of PKR 218/share, offering +14% upside from its last closing. The company is currently trading at a FY17E P/E of 10.3x and implied oil price of USD 39.8/bbl.

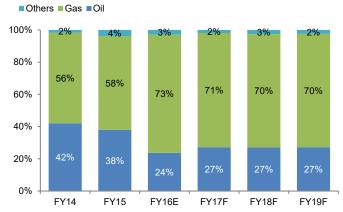


Graphical Snapshot

Exhibit: Total Oil production including additional



Gas contribution remains substantial in total revenue mix



Source: IGI Research, Company Financials.

Exhibit: Total Gas production including additional production

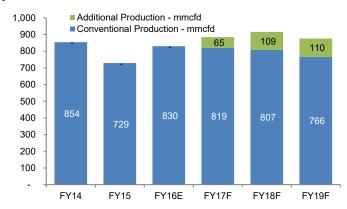
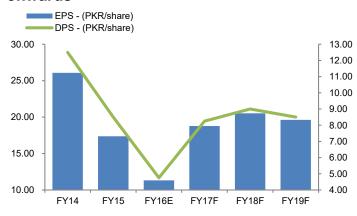


Exhibit:

Earnings to pick up substantially from FY17 onwards





Valuation

Using Reserve Based Discounted Cash Flow approach, our Dec-17 Target Price of PKR 218/share, with a cost of equity of 13.4% (risk-free rate = 6.25%, beta 1.09 and risk premium 6.50%). The scrip offers +14% return from its last closing price of PKR 191/share.

Valuation Parameters

Risk free Rate	6.25%
Beta (3yr)	1.09
Risk Premium	6.50%
CAPM (CoE)	13.35%

Exhibit: Valuation Snapshot									
	Jun-17	Jun-18	Jun-19	Jun-20	Jun-21	Jun-22	Jun-23	Jun-24	Jun-25
PKRmn	F	F	F	F	F	F	F	F	F
Exchange Rate	105.3	108.0	110.7	113.4	116.3	119.2	122.2	125.2	128.3
Arab Light (USD/bbll)	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
Total Oil Production (bbl)	6,450,089	7,341,910	7,046,780	6,865,363	6,826,022	5,296,637	5,078,168	3,253,292	3,253,292
Total Oil Revenue	32,613	35,276	34,705	34,657	35,319	28,091	27,606	18,128	18,581
Total Gas Production (mmcf)	298,558	293,685	278,138	269,387	255,175	248,154	248,154	242,704	240,289
Total Gas Revenue	78,380	80,590	78,016	77,278	74,306	72,960	73,878	69,762	70,104
LPG & other Revenue	2,309	3,379	3,101	2,977	1,719	1,685	603	603	603
Total Revenue	119,168	130,137	127,100	126,446	123,053	114,557	114,057	88,493	89,288
Less Royalty	26,813	29,281	28,598	28,450	27,687	25,775	25,663	19,911	20,090
Less Operating Expense	14,092	16,424	16,991	17,729	18,382	19,086	20,299	20,347	21,859
Less Taxation	16,020	17,578	16,779	16,474	15,716	13,905	13,477	8,289	8,115
Other Income	4,896	5,199	5,255	5,255	5,254	5,205	4,464	3,617	3,488
Net Cash flow	67,139	72,052	69,987	69,048	66,522	60,995	59,082	43,562	42,713
PV of Cash flows	67,139	67,710	58,021	50,481	42,905	34,705	29,656	19,283	16,680
Sum of cash flows	217.65								
Cash	0.64								
Outstanding Shares	1,971.73	_							
Target Price (Dec-17) - PKR	218.29								

Target Price (Dec-17) - PKR



Financial Summary

Pakistan Petroleum Limited (PPL)

Current Price (PKR):	191		Target Pr	ice (PKR):	218	Upside	14%		Recomm	nendation	BUY
Jun-end	FY15A	FY16A	FY17E	FY18F	FY19F	Jun-end	FY15A	FY16A	FY17E	FY18F	FY19F
Income Statement Items (P	KRmn)					Valuation Ratios					
Net Sales	104,377	82,875	119,168	130,137	127,100	EPS (PKR)	17.37	11.31	18.66	20.47	19.54
Field Expenditure	42,059	43,095	40,648	43,930	44,652	DPS (PKR)	8.50	4.75	8.25	9.00	8.50
Royalty	12,213	9,669	26,813	29,281	28,598	BVPS (PKR)	97.35	103.69	114.14	125.60	136.55
Gross Profit	50,105	30,111	51,708	56,926	53,851	P/E (x)	10.99	16.88	10.24	9.33	9.77
Other Income	7,569	5,515	5,681	6,028	6,339	P/EBITDA (x)	6.38	9.20	5.83	5.35	5.57
Oth. Operating Expense	7,951	3,712	3,975	4,361	4,163	D/Y (%)	4.45	2.62	4.29	4.71	4.50
Finance Costs	554	629	607	648	716	P/B (x)	1.96	1.84	1.67	1.52	1.40
Pre-tax Profits	49,170	31,285	52,807	57,944	55,311	Earnings Growth (%)	(33.38)	(34.88)	64.91	9.73	(4.54)
Post- Tax Profits	34,253	22,307	36,788	40,366	38,531	ROE (%)	17.84	10.91	16.35	16.30	14.31
Balance Sheet Items (PKRn	nn)					ROA (%)	13.83	8.69	12.64	12.63	11.33
PPE	93,774	104,909	116,043	127,294	138,545	Cash / Share	0.64	5.08	4.45	7.85	13.46
D/P Asset	53,701	54,032	53,843	54,194	54,555	Margins					
Expl & Eval Assets	1,172	1,172	1,172	1,172	1,172	Gross Margins (%)	48.00	36.33	43.39	43.74	42.37
Non-Current Assets	149,987	161,288	172,319	183,960	195,576	EBIT Margin (%)	47.64	38.51	44.82	45.02	44.08
Trade Debts	58,754	53,869	67,080	73,255	71,545	Net Profit Margins (%)	32.82	26.92	30.87	31.02	30.32
Cash	1,267	10,021	8,768	15,482	26,542	Macro- Assumption					
Current Assets	97,689	95,389	118,824	135,534	144,625	Oil (USD/bbl)	72.5	40.7	50.0	50.0	50.0
Total Assets	247,676	256,677	291,144	319,494	340,201	PKR/USD	101.4	104.3	105.3	108.0	110.7
Trade & Other Payables	22,880	27,522	33,472	36,291	35,431	Production (boe) '000)				
Current Liabilities	22,988	28,353	34,228	37,465	36,390	Total Production	51,801	58,345	62,404	65,470	62,554
Non current liabilities	32,731	23,874	31,865	34,375	34,578	Oil (bbl)	5,434	5,517	6,450	7,342	7,047
Total Equity	247,676	256,677	291,144	319,494	340,201	Gas (boe)	46,366	52,828	55,954	58,128	55,508
Cash Flow Items (PKRmn)											
Operating CF	39,175	41,111	39,408	48,279	51,106						
Investing CF	(11,377)	(14,409)	(32,390)	(26,731)	(23,080)						
Financing CF	(20,431)	(17,949)	(8,270)	(14,834)	(16,965)						
Course ICI December Comment	Cinconsists								Hardet	-dE .	******

Source: IGI Research, Company Financials Updated as of: 1/10/2017



COMPANY UPDATE

Pakistan Oilfields Ltd.									
Oil & Gas Exploration Cor	npanies								
Recommendation		NE	UTRAL						
Target Price		543.8							
Last Closing			540.6						
Upside			1%						
Market Data									
Bloomberg Tkr.			POL PA						
Shares (mn)			236.5						
Market Cap (PKRbn USD	mn)	127.9	1,218.0						
Exchange			KSE 100						
Price Info.	90D	180D	365D						
Abs. Return	30.0	43.2	127.5						
Low	396.5	348.4	189.7						

559.6

559.6

559.6

Key Company Financials

High

Period End: Jun				
PKRbn	FY16A	FY17E	FY18F	FY19F
Total Revenue	24.8	30.5	34.0	33.1
Net Income	7.23	10.1	12.1	11.9
EPS (PKR)	30.6	42.6	51.0	50.2
DPS (PKR)	35.0	42.0	47.0	49.0
Total Assets	55.7	59.7	63.5	64.3
Total Equity	30.2	30.3	31.2	31.5
Key Financial R	atios			
ROE (%)	24.0	33.3	38.6	37.6
P/E (x)	17.7	12.7	10.6	10.8
P/B (x)	4.2	4.2	4.1	4.1
DY (%)	6.5	7.8	8.7	9.1

Relative Price Performance & Shareholding



About the Company

The Company is incorporated in Pakistan as a public limited company. The Company is principally engaged in exploration, drilling and production of crude oil and gas. The Company is a subsidiary of the Attock Oil Company Limited, UK and its ultimate parent is Bay View International Group, S.A.

Source: Bloomberg, KSE 100 & IGI Research

Abdullah Farhan

Research Analyst abdullah.farhan@igi.com.pk Tel: (+92-21) 111-234-234 Ext.: 912

Pakistan Oilfields Limited

The Charm of Dividend Yield

Investment Case

We forecast profitability to grow by 3yr CAGR of +18% from FY17E-FY19F.We estimate +39%/+20%YoY jump in earnings in FY17 to the tune of PKR 42.6/ PKR 50.9 per share owing to a) total production to increase by +11%YoY in FY17F, b) POL generates 39% revenue from oil making it more vulnerable to oil price volatility, and c) conversion of Maramzai, Mamikhel and Makori east to Petroleum Policy 2007 and 2009 (PP07, PP09). Moreover, we maintain bearish stance on POL on the back of lowest reserve life, heavy reliance on Tal block for oil and gas production and sluggish exploratory efforts in company operated concessions.

Total Production to augment by +11%YoY in FY17F to 7.4mnBoE

The company's total production is expected to rise by +11%YoY in FY17F to 7.4mnBoE on the back of additional production of 1,063bopd of oil and 9.7mmcfd of gas. Total additional production is expected to add PKR 7.2/share in FY17. Cumulative additional production emanates solely from Tal block including Mardankhel-1, Makori Deep-1, Tolanj West-1, Makori East-5 and Maramzai-4.

Conversion of Concessions to PP12 for new discoveries

POL has signed a supplemental agreement with GoP for conversion of concessions to Petroleum Policy 2012, which includes Ikhlas, DG Khan, Kirthar South, Margala, Margala North, Gurgalot and Tal Block. In accordance with Supplemental Agreement signed with Government for conversion to PP12, POL received retrospective incremental income from Maramzai, Mamikhel and Makori East in respect of higher gas price applicable for the period from 1st Jul-15 to 31st Dec-15. As per our estimates, gas price for Mamikhel (PP07) and Maramzai/Makori East (PP09) has elevated by USD 0.12/mmbtu and USD 0.83/mmbtu, respectively. Mardankhel, Tolanj West and Makori Deep will also be priced under PP12. As per management estimates, upon finalization of conversion documentation, the due amount in lieu of Tal Block (Mamikhel, Maramzai and Makori East) and Domial in Ikhlas block, up until 30th Jun-15 accumulates to USD 34.39mn (PKR 3,597mn) having after tax earnings impact of PKR 10/share.

POL offers highest dividend yield of 8% compared to its peers

POL offers highest dividend yield of 7.7% as compared to 4% each of OGDC and PPL.

Low reserve life and heavy reliance on Tal Block

The company relies heavily on Tal block for its oil and gas production contributing 67% and 77% of total oil and gas production. Considering low reserve life of Tal block, company stands at lowest reserve life of 7.9 years as compared to its peers.

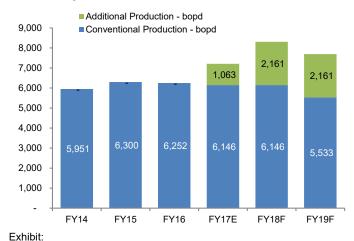
Recommendation

We maintain our "HOLD" call on POL with our Dec-17 with target price of PKR 544/share, offering +1% upside from its last closing. The company is currently trading at a FY17E P/E of 12.7x and offers a healthy dividend yield of 7.8%.



Graphical Snapshot

Exhibit: POL Oil production



Oil contribution remains dominant in total revenue mix

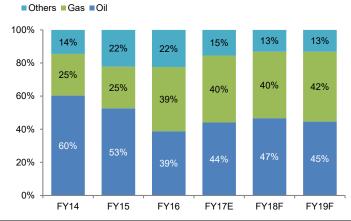
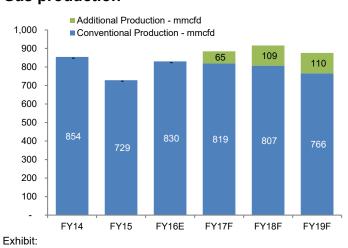
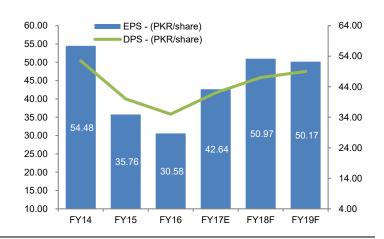


Exhibit: Gas production



Earnings to pick up



Source: IGI Research, Company Financials.



Valuation

Using Reserve Based Discounted Cash Flow approach, our Dec-17 Target Price of PKR 544/share, with a cost of equity of 12.8% (risk-free rate 6.25%, beta 1.02 and risk premium 6.50%).

Valuation Parameters

Risk free Rate	6.25%
Beta (3yr)	1.02
Risk Premium	6.50%
CAPM (CoE)	12.88%

	Jun-17	Jun-18	Jun-19	Jun-20	Jun-21	Jun-22	Jun-23	Jun-24	Jun-25
PKRmn	F	F	F	F	F	F	F	F	F
Exchange Rate	105.3	108.0	110.7	113.4	116.3	119.2	122.2	125.2	128.3
Arab Light (USD/bbl)	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
Total Oil Production (bbl)	2,631,419	3,031,972	2,808,204	2,637,182	2,605,268	1,635,620	1,450,833	654,299	570,748
Total Oil Revenue	13,444	15,877	14,763	14,210	14,389	9,259	8,419	3,892	3,480
Total Gas Production (mmcf)	30,641	32,153	32,153	30,893	24,033	18,814	18,341	6,424	3,628
Total Gas Revenue	12,311	13,639	13,980	13,920	11,342	9,080	9,205	2,536	1,251
LPG & other Revenue	4,713	4,460	4,350	4,246	2,505	1,728	1,736	1,212	1,037
Total Revenue	30,468	33,976	33,092	32,375	28,236	20,068	19,360	7,639	5,768
Less Royalty	2,803	3,189	3,075	3,024	2,630	1,872	1,805	712	538
Less Operating Expense	7,700	7,930	7,649	6,889	5,407	3,984	3,847	1,988	1,585
Less Taxation	3,614	4,320	4,252	4,288	3,794	2,452	2,362	508	506
Other Income	1,890	2,075	2,215	2,253	2,181	2,033	1,901	1,843	1,863
Net Cash flow	18,242	20,612	20,331	20,427	18,586	13,793	13,248	6,274	5,001
PV of Cash flows	19,391	19,410	16,961	15,092	12,165	7,997	6,805	2,854	2,015
Sum of cash flows	461.87								
Cash	45.50								

Cash 45.50
Outstanding Shares 237

Target Price (Dec-17) - PKR 543.80



Financial Summary

Pakistan Oilfields Limited (POL)

Current Price (PKR):	539		Target Pri	ce (PKR):	544	Upside	1%		Recom	mendation	HOLD
Jun-end	FY15A	FY16A	FY17E	FY18F	FY19F	Jun-end	FY15A	FY16A	FY17E	FY18F	FY19F
Income Statement Items (P	KRmn)					Valuation Ratios					
Net Sales	30,881	24,848	30,468	33,976	33,092	EPS (PKR)	35.76	30.58	42.64	50.97	50.17
Royalty	2,610	2,021	2,478	2,827	2,722	DPS (PKR)	40.00	35.00	42.00	47.00	49.00
Operating Costs	8,726	8,872	8,772	9,015	8,790	BVPS (PKR)	136.82	127.48	128.11	132.08	133.25
Gross Profit	16,267	11,243	15,892	18,425	17,967	P/E (x)	15.08	17.64	12.65	10.58	10.75
Exploration Costs	4,729	2,052	2,114	2,177	2,242	P/EBITDA (x)	7.61	9.28	6.76	5.87	5.98
Other Income	1,563	1,411	1,890	2,075	2,215	D/Y (%)	7.42	6.49	7.79	8.71	9.09
Finance Costs	987	1,022	933	711	613	P/B (x)	3.94	4.23	4.21	4.08	4.05
Pre-tax Profits	11,489	8,880	13,700	16,377	16,118	Earnings Growth (%)	674.79	396.14	39.44	19.54	(1.58)
Post- Tax Profits	8,459	7,234	10,086	12,057	11,867	ROE (%)	26.14	23.99	33.29	38.59	37.65
Balance Sheet Items (PKRmn)					ROA (%)	15.26	12.98	16.91	18.98	18.44	
PPE	10,489	10,421	10,325	10,207	10,068	Cash / Share	44.87	45.50	62.54	82.07	88.62
D/P Asset	12,412	14,585	13,311	11,731	11,387	Margins					
Expl & Eval Assets	2,661	901	901	901	901	Gross Margins (%)	52.68	45.25	52.16	54.23	54.29
Non-Current Assets	25,562	25,907	24,536	22,840	22,356	EBIT Margin (%)	40.40	39.85	48.03	50.29	50.56
Trade Debts	3,477	3,336	4,090	4,561	4,443	Net Profit Margins (%)	27.39	29.11	33.10	35.49	35.86
Cash	10,614	10,764	14,794	19,413	20,964	Macro- Assumption					
Current Assets	20,245	20,176	25,492	31,043	32,347	Oil (USD/bbl)	72.5	40.7	50.0	50.0	50.0
Total Assets	55,444	55,717	59,663	63,517	64,337	PKR/USD	101.4	104.3	105.3	108.0	110.7
Trade & Other Payables	4,876	5,551	6,440	7,066	7,096	Production (Units) '000					
Current Liabilities	8,536	9,096	10,410	12,520	13,495	Total Production (000'boe	6,854	7,092	8,007	8,673	8,449
Non current liabilities	14,544	16,468	18,950	19,754	19,324	Oil (000'bbl)	2,299.5	2,282.0	2,631.4	3,032.0	2,808.2
Total Equity	32,365	30,154	30,303	31,243	31,519	Gas (000'boe)	4,554.2	4,809.6	5,375.7	5,640.9	5,640.9
Cash Flow Items (PKRmn)											
Operating CF	13,584	11,853	14,360	17,869	17,679						
Investing CF	(2,711)	(4,183)	(2,874)	(2,937)	(4,108)						
Financing CF	(9,257)	(6,355)	(7,455)	(10,313)	(12,021)						

Source: IGI Research, Company Financials Updated as of : 1/10/2017



Price Sensitivity to changes in oil prices

Pakistan	Pakistan Oilfields Limited (POL)										
	Oil Ass	umption (U	SD/bbl)		EPS (PKR)	Target Price					
Scenarios	FY17	FY18	FY19	FY17	FY18	FY19	(PKR) - Dec-17				
Bear	45.0	45.0	45.0	38.6	46.1	45.6	513.6				
Base	50.0	50.0	50.0	42.6	51.0	50.2	543.8				
Bull 1	55.0	55.0	55.0	46.6	55.6	54.6	572.8				
Bull 2	60.0	60.0	60.0	50.5	60.3	59.0	601.8				
Bull 3	65.0	65.0	65.0	54.4	64.9	63.4	630.7				

Oil & Gas Development Company (OGDC)

	Oil Ass	umption (U	SD/bbl)		EPS (PKR)	Target Price	
Scenarios	FY17	FY18	FY19	FY17	FY18	FY19	(PKR) - Dec-17
Bear	45.0	45.0	45.0	17.6	19.8	18.4	189.6
Base	50.0	50.0	50.0	18.5	20.9	19.4	196.2
Bull 1	55.0	55.0	55.0	19.4	21.9	20.3	202.6
Bull 2	60.0	60.0	60.0	20.2	22.9	21.3	209.0
Bull 3	65.0	65.0	65.0	21.1	23.9	22.2	215.4

Pakistan Petroleum Limited (PPL)

	Oil Ass	umption (U	SD/bbl)		EPS (PKR)	Target Price	
Scenarios	FY17	FY18	FY19	FY17	FY18	FY19	(PKR) - Dec-17
Bear	45.0	45.0	45.0	17.1	18.8	17.9	204.7
Base	50.0	50.0	50.0	18.7	20.5	19.5	218.3
Bull 1	55.0	55.0	55.0	20.0	21.9	20.9	229.2
Bull 2	60.0	60.0	60.0	21.3	23.3	22.3	240.2
Bull 3	65.0	65.0	65.0	22.6	24.7	23.7	251.2

Mari Petroleum Limited (MARI)

	Oil Ass	umption (U	SD/bbl)		EPS (PKR)		Target Price
Scenarios	FY17	FY18	FY19	FY17	FY18	FY19	(PKR) - Dec-17
Bear	45.0	45.0	45.0	97.1	124.7	139.3	1,473.1
Base	50.0	50.0	50.0	104.5	133.5	148.8	1,538.8
Bull 1	55.0	55.0	55.0	110.5	140.5	156.5	1,591.9
Bull 2	60.0	60.0	60.0	116.5	147.6	164.1	1,644.9
Bull 3	65.0	65.0	65.0	122.5	154.6	171.8	1,698.0

Source: IGI Research



Risk to Our Investment Thesis

Oil Price Volatility to bring earnings down

Although we believe that oil prices are going to remain steady and a steep drop in oil price is highly unlikely but we highlight that any substantial drop in oil price would adversely affect company earnings. We expect long term oil price of USD 50/bbl.

Hazards during drilling and dry well

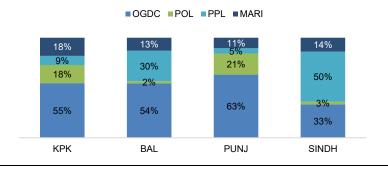
Oil and gas drilling inherently is a high risk activity. Companies are exposed to a number of hazards during drilling of wells including fire hazards and injury. In addition, the risk of not discovering oil/gas as expected would have a negative impact on earnings. These risks can be avoided by selecting efficient and professional teams and also by having strict criterion for selecting rig and other allied services/equipment.

Security Situation in Pakistan, especially Baluchistan

Security situation in Pakistan has improved over the recent years especially Baluchistan where in past security concerns has resulted in lack of exploration and drilling. However, improved security situation in Pakistan should propel exploration in Baluchistan and KPK where security concerns led to lack of new exploration.

Exhibit:

Blocks in Provinces



Source: IGI Research, Company Financials

Wellhead prices for converted blocks

Wellhead prices for converted blocks have yet to be notified formally which is a matter of concern for Pakistan E&P companies and they await retrospective payments in respect of those blocks. Once notified, companies are expected to receive due payments from the time of conversion grant date.

Circular debt

Circular debt has piled up in recent times to level last seen in 2013 when Government intervened and partially cleared the amount through different cash schemes. OGDC and PPL are more effected by circular debt and as a result dividend payout has been restricted as compared to POL. Moreover, PIBs maturity stand in Jul-17 and if rolled over would result in lower mark-up rate for OGDC and PPL.

Thursday, 12 January 2017



Annexures



Annexure-1:

Oil (WTI) Futures

Exhibit:

Futures Contract for WTI Crude showing price less than USD 57.2/bbl - (30th Dec-16)

i utures contract	Lioi vv ii Oiuu	e snowing p		nan ood	37.2/001	- (30til Dec-10)
Contract Month	Last	Change	Open	High	Low	Volumes
Cash	53.78s	(0.23)	-	53.78	53.78	-
Feb-17	53.95	0.18	53.87	54.01	53.77	13,832
Mar-17	54.90	0.18	54.81	54.96	54.69	2,791
Apr-17	55.67	0.18	55.53	55.71	55.46	1,035
May-17	56.30	0.19	56.33	56.33	56.12	418
Jun-17	56.72	0.17	56.68	56.78	56.52	301
Jul-17	56.89	0.07	57.02	57.02	56.89	66
Aug-17	56.95	(0.01)	56.95	56.95	56.95	14
Sep-17	57.20	0.16	57.20	57.20	57.08	66
Oct-17	57.08s	(0.01)	57.23	57.27	56.95	5,112
Nov-17	57.05	(0.05)	57.16	57.16	57.05	17
Dec-17	57.22	0.11	57.09	57.29	57.05	166
Jan-18	57.03s	(0.01)	57.20	57.27	57.01	1,832
Feb-18	56.95s	-	-	56.95	56.89	448
Mar-18	56.86s	0.01	57.00	57.00	56.86	1,035
Apr-18	56.76s	0.02	-	56.76	56.76	286
May-18	56.67s	0.03	56.88	56.88	56.67	191
Jun-18	56.61s	0.03	56.34	56.84	56.30	3,314
Jul-18	56.52s	0.03	-	56.52	56.52	467
Aug-18	56.46s	0.03	-	56.46	56.46	259
Sep-18	56.43s	0.03	-	56.43	56.43	78
Oct-18	56.40s	0.03	-	56.40	56.40	35
Nov-18	56.39s	0.03	-	56.39	56.39	45
Dec-18	56.57	0.18	56.56	56.57	56.55	16

Source: Bloomberg, Investing, IGI Research

^{*} Volume: one contract = 1,000 barrels



Annexure-2:

Drilling activity and Production increasing substantially in Dec-16 in Permian Basin

Exhibit:

Shale On Floudction a	Jan- 17	Dec- 16	Nov- 16	Oct- 16	Sep-	Aug- 16	Jul- 16	Jun- 16	May- 16	Apr- 16	Mar- 16	Feb- 16	Jan- 16
WTI Oil (USD/bbl)	-	52.17	45.76	49.94	45.23	44.80	44.80	48.85	46.80	41.12	37.96	30.62	31.78
Total Oil Production from Plays below (MBPD)	-	4,542	4,541	4,570	4,610	4,670	4,747	4,851	4,829	4,887	4,952	5,055	5,110
Permian	-	2,127	2,089	2,063	2,042	2,030	2,034	2,037	2,004	1,991	1,989	1,980	1,964
Eagle Ford	-	980	1,003	1,036	1,066	1,102	1,146	1,188	1,209	1,245	1,299	1,339	1,386
Bakken	-	906	918	937	959	984	996	1,047	1,046	1,068	1,066	1,132	1,140
DJ Niobrara	-	406	403	404	409	417	427	432	420	428	438	444	455
Haynesville	-	42	42	43	44	44	45	45	46	47	48	48	49
Marcellus	-	36	36	35	36	36	39	39	39	40	42	39	41
Utica - Ohio	-	46	49	51	54	57	60	63	66	69	71	73	75
Rig Productivity - New Well Production pe	er Rig												
Rig Productivity - Oil Barrels per Rig (New W	ells Only)												
Permian	634	629	621	612	603	594	583	571	558	547	527	503	475
Eagle Ford	1,341	1,315	1,290	1,264	1,240	1,216	1,192	1,171	1,150	1,130	1,107	1,084	1,060
Bakken	967	947	927	905	884	861	838	815	792	770	749	730	707
DJ Niobrara	1,218	1,182	1,148	1,113	1,080	1,046	1,013	982	951	922	893	866	836
Haynesville	30	30	30	30	30	30	30	30	30	29	29	29	29
Marcellus	69	69	69	68	68	67	75	71	66	62	57	51	45
Utica - Ohio	118	127	136	145	154	162	170	176	183	188	193	197	201
US Wells Inventory													
Drilled But Uncompleted Wells (DUC)	-	-	5,218	5,154	5,082	5,057	5,091	5,150	5,250	5,393	5,517	5,511	5,547
Bakken	-	-	814	813	809	813	831	841	856	870	867	848	831
Eagle Ford	-	-	1,278	1,297	1,324	1,341	1,355	1,389	1,424	1,497	1,545	1,568	1,581
Haynesville	-	-	152	153	151	149	157	146	155	150	159	163	168
Marcellus	-	-	623	636	643	652	672	696	699	706	715	727	746
Niobrara	-	-	675	672	660	670	689	713	737	769	801	799	802
Permian	-	-	1,568	1,469	1,379	1,313	1,270	1,235	1,236	1,242	1,262	1,244	1,265
Utica	-	-	109	115	116	118	118	130	144	161	168	162	153
Drilled Wells	-	-	635	586	524	540	435	421	401	399	500	528	667
Completed Wells	-	-	570	514	499	575	494	521	544	522	494	564	617
U.S. Average Rig Count by Play - Oil Rigs	-	502	462	436	416	397	359	330	320	348	384	430	515

Source: Bloomberg, IGI Research



Annexure-3:

Saudi Arabia Balance of Payment Negative as it needs USD 57.2/bbl Oil Price to Breakeven

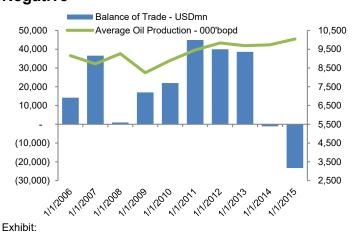
Exhibit:

Crude Oil Price Average - Yearly

USD/bbl	Dec-04	Dec-05	Dec-06	Dec-07	Dec-08	Dec-09	Dec-10	Dec-11	Dec-12	Dec-13	Dec-14	Dec-15	Dec-16
Arab Light	34.48	50.23	61.63	69.11	94.80	62.67	78.22	108.08	111.36	107.99	98.13	50.56	40.99
Brent	38.28	54.55	65.41	72.71	97.51	61.98	79.73	111.14	111.96	108.81	98.81	52.32	44.11
WTI	41.43	56.56	66.07	72.32	99.53	61.85	79.49	95.08	94.12	97.98	93.00	48.70	43.28

Exhibit:

Saudi Arabia Oil production at peak but low oil prices keeping Balance of Payment Negative



U.A.E balance of payment in remains positive as required oil price to breakeven stands at USD 40.9/bbl

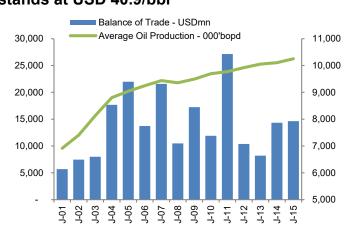


Exhibit:

Russia Balance of Payment in check with rising production amid low oil prices

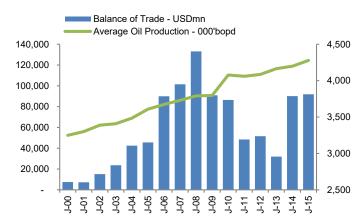
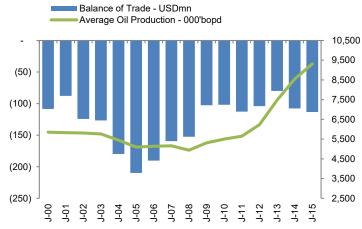


Exhibit:

U.S balance of payment remains negative despite peak production levels owing to deferred payments



Source: IGI Research, Company Financials.



Annexure-4:

Breakeven oil price for Middle East, North Africa and Central Asian oil producers

Exhibit:

Breakeven Prices (\$/bbl)

Dicarcici i lices (4/DDI)												
	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005
Fiscal Breakeven (fiscal balance is ze	Fiscal Breakeven (fiscal balance is zero)											
Middle East and North Africa												
Algeria	90.6	111.2	135.3	108.1	122.8	109.7	85.0	79.2	77.0	-	-	-
Bahrain	93.8	106.3	122.5	130.4	119.4	110.7	102.8	82.5	79.7	65.5	56.9	46.0
Iran	55.3	60.1	100.0	115.8	97.7	98.1	64.1	60.4	75.8	45.4	50.0	35.8
Iraq	58.3	64.7	113.2	114.6	102.9	101.9	94.8	89.4	108.6	65.7	59.7	59.4
Kuwait	47.8	48.3	55.8	42.5	49.0	46.2	48.5	30.0	33.0	-	-	-
Libya	216.5	196.9	206.0	110.8	62.8	148.8	65.3	70.4	55.4	38.2	30.0	27.3
Oman	77.5	99.3	94.0	93.8	79.8	77.9	66.6	61.1	61.7	42.1	39.1	36.0
Qatar	62.1	58.3	57.8	62.7	66.1	62.2	64.5	59.0	51.9	47.0	42.8	34.7
Saudi Arabia	79.7	92.9	105.7	88.9	77.9	78.1	69.5	73.6	37.6	-	-	-
United Arab Emirates	58.6	60.1	79.0	69.4	69.9	85.1	70.1	77.4	34.4	7.7	3.0	6.8
Yemen	364.0	305.0	160.0	214.8	237.0	195.0	130.0	138.0	-	-	-	-
Central Asia												
Azerbaijan	70.0	71.9	89.6	108.2	97.2	75.6	48.4	32.7	35.2	21.1	24.9	9.1
Kazakhstan	82.7	88.1	65.5	63.2	67.2	56.8	68.9	71.1	88.7	35.8	18.7	24.3
Turkmenistan	47.0	50.4	81.3	77.4	76.6	90.9	-	-	-	-	-	-
External Breakeven (current account	balance	is zero)										
Middle East and North Africa		•										
Algeria	76.9	84.9	94.8	87.5	77.0	68.1	58.9	55.6	49.3	-	-	-
Bahrain	65.3	65.7	75.5	67.2	61.8	71.3	66.3	54.2	63.8	29.2	31.7	31.6
Iran	31.3	36.1	56.4	59.8	60.9	51.5	60.6	57.9	60.5	47.2	39.6	34.8
Iraq	47.4	56.0	100.0	100.8	94.7	76.6	70.0	67.4	61.6	63.5	49.7	32.9
Kuwait	40.1	45.5	43.5	38.0	32.1	32.7	31.5	25.9	24.9	-	-	-
Libya	207.8	179.9	184.9	83.2	63.2	86.3	53.7	45.5	37.7	26.8	21.0	24.1
Oman	78.4	86.1	84.2	89.8	69.4	57.8	57.9	59.1	78.0	54.1	37.4	-
Qatar	46.1	40.6	54.8	53.2	52.3	54.2	49.7	49.9	-	-	-	-
Saudi Arabia	57.2	68.8	72.2	59.3	55.3	52.9	52.6	53.8	50.5	-	-	-
United Arab Emirates	40.9	41.9	59.8	47.0	46.4	66.0	68.5	75.0	-	-	-	-
Yemen	95.0	203.0	120.0	168.0	218.0	172.0	109.0	83.0	-	-	-	-
Central Asia												
Azerbaijan	42.1	51.0	55.8	72.8	65.8	53.7	31.3	24.5	29.4	33.6	43.8	43.8
Kazakhstan	86.7	84.5	105.7	108.3	83.2	77.4	73.9	71.5	82.9	-	-	-
Turkmenistan	56.3	50.9	89.7	94.3	91.9	102.0	-	_	-	-	-	-

Source: Bloomberg, IMF, IGI Research



Annexure-5:

China Economic Outlook / Global Growth Forecast

Exhibit: China's GDP Growth rate to slowdown in 2017 and 2018

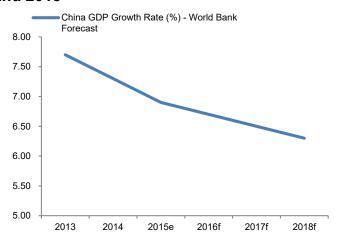
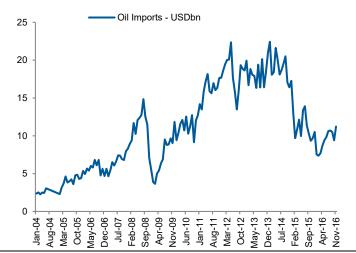


Exhibit:
China's oil imports declining substantially since Jul-14, however picking up towards end of 2016

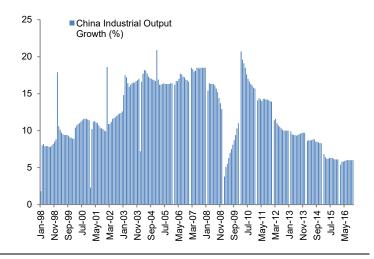


Source: IGI Research, IMF, World Bank, Bloomberg

Exhibit: China's Trade Account balance



China's Industrial output growth slowing down since 2010



Thursday, 12 January 2017



Exhibit:

World Bank Global GDP Growth Forecast - (%)

	2013	2014	2015E	2016F	2017F	2018F
Real GDP						
World	2.40	2.60	2.40	2.40	2.80	3.00
Advanced Economies	1.10	1.70	1.80	1.70	1.90	1.90
United States	1.50	2.40	2.40	1.90	2.20	2.10
Euro Area	(0.30)	0.90	1.60	1.60	1.60	1.50
Japan	1.40	(0.10)	0.60	0.50	0.50	0.70
EM and DM Economies	4.70	4.20	3.40	3.50	4.40	4.70
East Asia and Pacific	7.10	6.80	6.50	6.30	6.20	6.10
China	7.70	7.30	6.90	6.70	6.50	6.30
Europe and Central Asia	2.30	1.80	(0.10)	1.20	2.50	2.80
Latin America and the Caribbean	2.90	1.00	(0.70)	(1.30)	1.20	2.10
Middle East and North Africa	2.00	2.90	2.60	2.90	3.50	3.60
South Asia	6.10	6.80	7.00	7.10	7.20	7.30
India	6.60	7.20	7.60	7.60	7.70	7.70
Pakistan	3.70	4.00	4.20	4.50	4.80	5.10
Sub-Saharan Africa	4.80	4.50	3.00	2.50	3.90	4.40

Source: World Bank, IGI Research

Thursday, 12 January 2017



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Valuation Methodology

The analyst^ has used following valuation methodology to arrive at the target price of the said security (ies): Reserve Based (Discounted Cash Flow) Time Horizon: Dec-17

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IGI Finex Securities Limited Research Analyst(s)

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Contact Details

Research Team

Saad Khan	Deputy Head of Research	Tel: (+92-21) 111-234-234 Ext.: 810	saad.khan@igi.com.pk
Abdullah Farhan	Research Analyst	Tel: (+92-21) 111-234-234 Ext.: 912	abdullah.farhan@igi.com.pk
Yawar Saeed	Research Analyst	Tel: (+92-21) 111-234-234 Ext.: 973	yawar.saeed@igi.com.pk
Anjali Kukreja	Research Analyst	Tel: (+92-21) 111-234-234 Ext.: 957	anjali.kukreja@igi.com.pk
Jawad Ameer Ali	Research Analyst	Tel: (+92-21) 111-234-234 Ext.: 816	jawad.ameer@igi.com.pk
Umesh Solanki	Database Manager	Tel: (+92-21) 111-234-234 Ext.: 966	umesh.solanki@igi.com.pk

Equity Sales

Faisal Jawed Khan	Head of Equities	Tel: (+92-21) 35301779	faisal.jawed@igi.com.pk
Zaeem Haider Khan	Regional Head (North)	Tel: (+92-42) 35777863-70	zaeem.haider@igi.com.pk
Muhammad Naveed	Branch Manager (Islamabad)	Tel: (+92-51) 2604861-2	muhammad.naveed@igi.com.pk
Gul Hussain	Branch Manager (Faisalabad)	Tel: (+92-41) 2540843-45	gul.hussain@igi.com.pk
Asif Saleem	Branch Manager (RY Khan)	Tel: (+92-68) 5871652-6	asif.saleem@igi.com.pk
Mehtab Ali	Branch Manager (Multan)	Tel: (+92-61) 4512003	mahtab.ali@igi.com.pk
Zeeshan Kayani	Branch Manager (Abbotabad)	Tel: (92-992) 408243-44	zeeshan.kayani@igi.com.pk

IGI Finex Securities Limited

Trading Rights Entitlement Certificate (TREC) Holder of Pakistan Stock Exchange Limited |
Corporate member of Pakistan Mercantile Exchange Limited

Head Office

Suite No 701-713, 7th Floor, The Forum, G-20, Khayaban-e-Jami Block-09, Clifton, Karachi-75600 UAN: (+92-21) 111-444-001 | (+92-21) 111-234-234 Fax: (+92-21) 35309169, 35301780 Website: w w w .igisecurities.com.pk

Stock Exchange Office

Room # 719, 7th Floor, KSE Building, Stock Exchange Road, Karachi. Tel: (+92-21) 32429613-4, 32462651-2 , Fax: (+92-21) 32429607

Lahore Office	Islamabad Office
5-F.C.C. Ground Floor, Syed Maratib Ali Road,	Mezzanine Floor, Office 5, 6 & 7, Kashmir Plaza,
Gulberg II, Lahore	Block- B, Jinnah Avenue, Blue Area, Islamabad
Tel: (+92-42) 35777863-70, 35876075-76	Tel: (+92-51) 2604861-2, 2604864, 2273439
Fax: (+92-42) 35763542	Fax: (+92-51) 2273861
Faisalabad Office	Rahim Yar Khan Office
Room #: 515-516, 5th Floor, State Life	Plot # 12, Basement of Khalid Market,
Building, 2- Liaqat Road, Faisalabad	Model Town, Town Hall Road, Rahim Yar Khan
Tel: (+92-41) 2540843-45	Tel: (+92-68) 5871653-6, 5871652
Fax: (+92-41) 2540815	Fax: (+92-68) 5871651
Multan Office	Abbottabad Office
Mezzanine Floor, Abdali Tower,	Ground Floor, Al Fatah ShoppinigCenter, Opp. Radio

Mezzanine Floor, Abdali Tower,
Abdali Road, Multan
Phone: (92-992) 408243 - 44
Ground Floor, Al Fatah ShoppinigCenter , Opp. Radio Station, MansehraRoad, Abbottabad
Phone: (+92-99) 2408243 - 44



www.jamapunji.pk