(A) PTTEP and Our Subsidiaries' Petroleum Reserve Report As of December 31, 2016

The total Proved Reserves of PTTEP and our subsidiaries as of December 31, 2016 are shown in the attached table. The Proved Reserves are reviewed annually by Company's earth scientists and reservoir engineers to ensure rigorous professional standards. The Proved Reserves are reported on a gross basis, which includes the Company's net working interest and related host country's interest.

As of December 31, 2016, the total Proved Reserves of all projects of PTTEP Group are 170 million stock-tank barrels (MMSTB) of crude oil and condensate¹, and 3,371 billion standard cubic feet (BSCF) of natural gas (525 million barrels of oil equivalent (MMBOE)). The total Proved Reserves (consolidated companies) in term of oil equivalent is 695 MMBOE. Proved Reserves of crude and condensate are approximately 25% while, for gas, are 75% of the total Proved Reserves in terms of oil equivalent.

In 2016, the total production of PTTEP Group is 135 MMBOE (38 MMSTB of crude oil and condensate¹ and 610 BSCF of natural gas or 97 MMBOE) which is equivalent to the production rate of approximately 369,312 barrels of oil equivalent per day (BOED), approximately 4,576 BOED or 1.2% decrease from last year. The decrease was mainly due to temporary production facility shut down for maintenance and natural production decline of PTTEP Australasia, Vietnam 16-1, and Yetagun projects. However, the reduction of production is compensated by increasing of production from Algeria 433a & 416b Project.

¹ Include the proved reserves and production of LPG

Proved Reserves of Crude,

Condensate and Na	atural Gas ⁽¹⁾
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Proved	Reserves of C	rude Oil	Proved Reserves of Natural Gas		Barrel of Oil Equivalent			
an	d Condensate	(2)						
	(MMSTB)			(BSCF)		(N	IMBOE)	
Domestic	Foreign	Total	Domestic	Foreign	Total	Domestic	Foreign	Total
113	74	187	2,119	1,695	3,814	461	316	777
14	9	23	336	53	389	70	17	87
4	1	5	2	1	3	4	2	6
4	-	4	(27)	30	3	(1)	5	4
-	-	-	-	-	-	-	-	-
(27)	(12)	(39)	(409)	(209)	(618)	(94)	(42)	(136)
108	72	180	2,021	1,570	3,591	440	298	738
108	72	180	2,021	1,570	3,591	440	298	738
18	1	19	292	(18)	274	65	(1)	64
4	-	4	5	-	5	5	-	5
5	-	5	111	-	111	23	-	23
-	-	-	-	-	-	-	-	-
(27)	(11)	(38)	(411)	(199)	(610)	(95)	(40)	(135)
108	62	170	2,018	1,353	3,371	438	257	695
	an Domestic 113 14 4 4 4 4 7 (27) 108 108 18 4 5 5 (27)	and Condensate (MMSTB) Domestic Foreign 1113 74 114 9 14 9 4 1 4 1 4 1 4 1 4 1 4 1 108 72 108 72 108 72 108 72 108 72 108 72 108 72 108 72 108 72 108 72 108 72 108 72 108 72 108 72 108 72 108 72 108 7 108 7 108 7 108 7 108 7 109 7 109 7 109 7 109 7	Domestic Foreign Total 1113 74 187 14 9 23 4 1 5 4 - 4 - - - (27) (12) (39) 108 72 180 113 19 - 4 - 4 - - - (27) (12) (39) 108 72 180 113 19 - 4 - 4 5 - 5 - - - (27) (11) (38)	Annumber of the section	Anticipation (MMSTB) Domestic Foreign Total Domestic Foreign 1113 74 187 2,119 1,695 14 9 23 336 53 4 1 5 2 1 4 1 5 2 1 4 1 5 2 1 4 1 5 2 1 14 9 23 336 53 4 1 5 2 1 4 1 5 2 1 108 72 (39) (409) (209) 108 72 180 2,021 1,570 18 1 19 292 (18) 4 - 4 5 - 5 - 5 111 - 5 - 5 111 - (27) (11) (38) (411) (199)	And Condensate ⁽²⁾ (MMSTB) (BSCF) Domestic Foreign Total Domestic Foreign Total 1113 74 187 2,119 1,695 3,814 14 9 23 336 53 389 4 1 5 2 1 3 4 - 4 (27) 30 3 108 72 180 2,021 1,570 3,591 118 1 19 292 (18) 274 4 - 4 5 5 5 111 108 72 180 2,021 1,570 3,591 118 1 19 292 (18) 274 4 - 4 5 5 5 111 - - - - 5 5 108 72 180 2,021 1,570 3,591 118 1 19 292 (18) 274 4	International construction of the section of t	International construction of the construction of t

(1) The Proved Reserves are reported on a gross basis which includes the Company's net working interest and the related host country's interest.

(2) LPG Included

(B) Capitalized Costs Relating to Oil and Gas Producing Activities

Capitalized costs represent cumulative expenditures for proved and unproved properties together with related accumulated depreciation, depletion, amortization and allowance for impairment.

Proved properties include exploration wells, development wells, transportation pipeline, producing facilities and decommissioning costs. Unproved properties represent amounts associated with capitalized cost of projects which have not yet found proved reserves.

(Unit: Million US Dollar)	2016	2015
Proved properties	26,011	25,319
Unproved properties	<u>4,717</u>	<u>4,727</u>
Gross capitalized costs	30,728	30,046
Accumulated depreciation, depletion, amortization and		
allowance for impairment	<u>(18,703)</u>	<u>(16,871)</u>
Net capitalized costs	<u>12.025</u>	<u>13.175</u>

(C) Costs Incurred in Oil and Gas Property Acquisition, Exploration, and Development Activities

Costs incurred in oil and gas property acquisition, exploration and development activities represent amounts both capitalized and charged to expense during the year.

Property acquisition costs include costs to purchase proved and unproved properties.

Exploration costs include geological and geophysical expenses, exploratory drilling cost as well as reservation fee for exploration blocks.

Development costs include costs associated with drilling and equipping development wells, improved recovery systems, facilities for extraction, treating, gathering and storage, producing facilities for existing developed reserves, and costs associated with transportation pipeline.

	2016				2015	
(Unit: Million US Dollar)	Domestic	Foreign	Total	Domestic	Foreign	Total
Acquisition of properties						
- Proved	-	-	-	-	-	-
- Unproved	-	1	1	-	-	-
Exploration costs	4	54	58	88	274	362
Development costs	<u>747</u>	303	1,050	<u>1,171</u>	504	<u>1,675</u>
Total	<u>751</u>	<u>358</u>	<u>1,109</u>	<u>1.259</u>	<u>778</u>	<u>2.037</u>

(D) Results of operations for producing activities

Results of operations from oil and gas producing activities for the year 2016 and 2015 are shown in the following table.

Operating expenses include lifting costs incurred to operate and maintain productive wells and related equipment.

Exploration expenses consist of geological and geophysical costs, and exploratory well write off expenses.

General administrative expenses are expenses directly related to oil and gas producing activities.

Depreciation, Depletion and Amortization expenses relates to capitalized costs incurred in acquisition, exploration and development activities, transportation pipeline, including amortized decommissioning costs.

Other expenses (income) mainly include impairment loss on assets, foreign exchange gains and losses directly related to oil and gas producing activities and other income.

Income tax expenses are based on the results of operations from petroleum producing activities.

(Unit Million U.C. Dallar)	2016				2015	
(Unit: Million US Dollar)	Domestic	Foreign	Total	Domestic	Foreign	Total
Gross revenues						
Sales – Related parties	2,873	1,018	3,891	3,529	1,456	4,985
Sales – Third parties	249	355	604	242	541	783
Total Sales	3,122	1,373	4,495	3,771	1,997	5,768
Expenses						
Operating expenses	366	461	827	446	608	1,054
Exploration expenses	3	70	73	16	167	183
General administrative expenses	36	58	94	53	62	115
Petroleum royalties and remuneration	353	0	353	426	0	426
Depreciation, depletion and amortization	1,434	623	2,057	1,836	849	2,685
Other (income)/ expenses	<u>(33)</u>	<u>45</u>	<u>12</u>	<u>171</u>	<u>1,169</u>	<u>1,340</u>
Total expenses	2,159	1,257	3,416	2,948	2,855	5,803
Results before income taxes	963	116	1,079	823	(858)	(35)
Income tax expenses	<u>271</u>	<u>26</u>	<u>297</u>	<u>374</u>	<u>119</u>	<u>493</u>
Net results of operations	<u>692</u>	<u>90</u>	<u>782</u>	<u>449</u>	<u>(977)</u>	<u>(528)</u>

General corporate overhead and finance costs are excluded from the results of operations for petroleum producing activities.

(E) Standardized Measure of Discounted Future Net Cash Flows (SMDCF) Relating to the Proved Oil and G as Reserves

The standardized measure of discounted future net cash flows related to the above proved oil and gas reserves, is computed by applying 12-month average prices* (with consideration of price changes only to the extent provided by contractual arrangements), to the estimated future production of year-end remaining proved oil and gas reserves less estimated future expenditures (based on year-end costs) to be incurred in developing and producing the proved reserves.

Future income taxes are calculated by applying the appropriate year-end statutory tax rates to the future pre-tax net cash flows and deducted by applicable tax deductions or tax credits.

Net Cash flows are discounted using a rate of 10% per year to reflect the estimated timing of the future cash flows.

The estimation of discounted future net cash flow shown below is not intended to represent the fair value of oil and gas properties. The fair value should take into account of several factors, such as probable and possible reserves which may turn into proved reserves in the future, anticipated future oil and gas prices, interest rates, changes in development and production costs and risks associated with future production. Therefore the fair value will subject to the view and perception of analyst.

* Twelve-month average prices are calculated as the unweighted arithmetic average of the first-day-of-the-month price for each month.

Standardized Measure of Discounted Future Net Cash Flows Relating to Proved Oil and Gas Reserves

(Unit: Million US Dollar)	Domestic		Foreign		Total	
	2016	2015	2016	2015	2016	2015
Future cash inflows	13,565	14,538	6,106	10,558	19,671	25,096
Future production costs	(2,283)	(2,730)	(1,614)	(2,077)	(3,897)	(4,807)
Future development costs	(4,718)	(5,990)	(1,612)	(1,900)	(6,330)	(7,890)
Future income tax expenses	<u>(2,177)</u>	<u>(1,944)</u>	<u>(626)</u>	<u>(1,200)</u>	<u>(2,803)</u>	<u>(3,144)</u>
Future net cash flows	4,387	3,874	2,254	5,381	6,641	9,255
10% annual discount	<u>(337)</u>	<u>(136)</u>	<u>(651)</u>	<u>(1,691)</u>	<u>(988)</u>	<u>(1,827)</u>
Standardized measure of discounted future	<u>4,050</u>	<u>3,738</u>	<u>1,603</u>	<u>3,690</u>	<u>5,653</u>	<u>7,428</u>
net cash flows (SMDCF)						

(Unit: Million US Dollar)	2016	2015
Present value at beginning of year	7,428	12,229
Sales and transfers of oil and gas produced, net of production costs	(3,210)	(4,106)
Development costs incurred during the period	1,103	1,844
Net changes in prices and production costs	(3,779)	(9,470)
Net changes in development costs	1,495	(270)
Extensions, discoveries and improved recovery	469	186
Revisions of previous quantity estimates	967	1,540
Purchases / sales of petroleum in place	-	-
Accretions of discount	839	2,955
Net changes in income taxes	<u>341</u>	<u>2,520</u>
Present value at the year end	<u>5,653</u>	<u>7,428</u>

Changes in Standardized Measure of Discounted Future Net Cash Flows Relating to Proved Oil and Gas Reserves

(E) Other Information

Productive Oil/Condensate and Gas Wells

The numbers of productive wells at December 31, 2016 were as follows:

	Oil/Condensate		Ga	is
	Gross	Net	Gross	Net
Thailand	902	476	1,307	572
Foreign				
Southeast Asia	42	14	183	84
Others	17	10	10	10
Total	961	500	1,500	666

Drilling in Progress of Oil/Condensate and Gas Wells

The numbers of wells in progress at December 31, 2016 were as follows:

	Gross	Net
Exploratory		
Thailand	-	-
Foreign		
Southeast Asia	-	-
Others	-	-
Total	-	-
Development		
Thailand	55	11.05
Foreign		
Southeast Asia	18	10.59
Others	-	-
Total	73	21.64

Net Oil/Condensate and Gas Wells Drilled in 2016

	Net Productive	Net dry
	wells drilled	well drilled
Exploratory		
Thailand	2.65	2.00
Foreign		
Southeast Asia	-	-
Others	0.69	-
Total	3.34	2.00
Development		
Thailand	182.32	8.74
Foreign		
Southeast Asia	24.48	-
Others	-	-
Total	206.80	8.74

Gross wells include the total number of wells in which the Company has an interest excluding utility wells. Net wells are the sum of the Company's fractional interests in gross wells.

Quarterly Information in 2016 and 2015 for the consolidated financial statement are as follows:

Year2016AthQShoPehoRevenueSales1,037,434,5921,064,476,3311,061,002,16Revenue from pipeline transportation14,258,8418,834,31516,701,593Other incomeGain on foreign exchange0,659,0957,710,5537,452,2505,742,454Gain on financial derivatives14,311,71714,802,515Other income12,375,1357,127,10410,675,09611,305,277Total Revenues10,88,06,4631,108,720,5261,102,401,5191,084,548,800Operating expenses11,920,87820,361,68915,583,06425,486,002Operating expenses92,016,02138,466,88068,134,55130,325,391 <th></th> <th></th> <th></th> <th></th> <th>Unit: US Dollar</th>					Unit: US Dollar
Sales 1.037,434,592 1.046,476,331 1.061,002,216 1.044,652,922 Revenue from pipeline transportation 14,225,854 18,934,315 16,701,593 16,624,759 Other income - - - - - - Gain on foreign exchange 9,859,6965 7,210,535 7,452,505 5,742,545 Gain on financial derivatives 14,311,187 14,620,515 - - Other income 12,375,135 7,127,104 10,675,096 11,305,277 Total Revenues 10,88,006,463 1,108,720,526 1,102,401,519 1,084,548,890 Explorating expenses 11,200,878 20,361,689 138,679,994 130,052,956 Exploration expenses 11,200,878 20,361,689 15,583,064 25,480,002 Administrative expenses 92,016,021 38,466,880 58,134,551 30,325,339 Petroleum royalties and remuneration 87,892,910 88,924,530 87,967,397 88,323,501 Depreciation, depletion and amoritzation 50,935,545 534,407,622 517,656,659 517	<u>Year2016</u>	4thQ	<u>3thQ</u>	2thQ	<u>1thQ</u>
Revenue from pipeline transportation 14,225,854 18,934,315 16,701,593 16,624,759 Other income - </td <td>Revenues</td> <td></td> <td></td> <td></td> <td></td>	Revenues				
Other income - - - - - Gain on foreign exchange - 14,351,726 6,572,364 6,223,387 Interest income 9,659,695 7,210,535 7,452,250 5,742,545 Gain on financial derivatives 14,311,187 14,620,515 - - Other income 12,375,135 7,127,104 10,675,096 11,305,277 Total Revenues 10,080,064,63 1,108,720,526 1,102,401,191 1,084,548,980 Expenses 11,920,878 20,361,689 15,583,064 25,486,002 Administrative expenses 92,016,021 38,466,800 56,134,551 30,325,339 Petroleum royalties and remuneration 87,892,910 88,924,530 87,967,397 88,323,501 Depreciation, depletion and amortization 509,335,454 534,407,622 517,658,659 517,990,644 Other expenses 1,560,457 - - - - Loss on financial derivatives - 97,533,923 49,586,533 Management's remuneration 1,560,811 797,661 </td <td>Sales</td> <td>1,037,434,592</td> <td>1,046,476,331</td> <td>1,061,000,216</td> <td>1,044,652,922</td>	Sales	1,037,434,592	1,046,476,331	1,061,000,216	1,044,652,922
Gain on foreign exchange - 14,351,726 6,572,364 6,223,387 Interest income 9,659,695 7,210,535 7,452,250 5,742,545 Gain on financial derivatives 14,311,187 14,620,515 - - Other income 12,375,135 7,127,104 10,075,096 11,305,277 Total Revenues 10,88,006,463 1,108,720,528 1,102,401,519 1,084,548,890 Expenses 11,920,878 20,361,689 15,583,064 25,486,002 Administrative expenses 92,016,021 38,466,880 58,134,551 30,325,339 Petroleum royalities and remuneration 87,892,910 88,924,530 87,967,397 88,323,501 Depreciation, depletion and amortization 509,335,454 54,407,622 517,980,644 785,642 Uher expenses 15,560,457 - - - - - Loss on financial derivatives 1,580,811 797,861 820,214 785,642 - - - Impairment loss on assets 17,680,811 797,861 820,214 </td <td>Revenue from pipeline transportation</td> <td>14,225,854</td> <td>18,934,315</td> <td>16,701,593</td> <td>16,624,759</td>	Revenue from pipeline transportation	14,225,854	18,934,315	16,701,593	16,624,759
Interest income 9,659,695 7,210,535 7,452,250 5,742,545 Gain on financial derivatives 14,311,187 14,620,515 - - Other income 12,375,135 7,127,104 10,675,096 11,305,277 Total Revenues 10,88,006,463 1,108,720,526 1,102,401,519 1,084,548,890 Expenses 167,386,453 146,011,694 138,679,994 130,052,533 Operating expenses 92,016,021 38,466,880 58,134,551 30,325,339 Petroleum royatiles and remuneration 87,892,910 88,924,530 87,967,397 88,323,501 Depreciation, depletion and amortization 509,335,454 534,407,622 517,896,653 517,980,644 Other expenses - - 97,533,923 49,586,533 Management's remuneration 1,580,811 797,861 820,214 785,642 Impaiment bas on assets 57,896,251 59,241,885 59,035,265 58,292,332 Total Expenses 990,740,072 888,212,161 975,413,067 900,832,588 Share of gain	Other income	-	-	-	-
Gain on financial derivatives 14,311,187 14,620,515 - - Other income 12,375,135 7,127,104 10,675,096 11,305,277 Total Revenues 1,088,006,463 1,108,720,628 1,102,401,519 1,084,548,890 Expenses 11,920,878 20,361,689 15,583,064 25,486,002 Administrative expenses 92,016,021 38,466,880 58,134,551 30,325,339 Petroleum royatties and remuneration 87,892,910 88,924,530 67,967,397 88,323,501 Depreciation, depletion and amortization 509,354,454 534,407,622 517,686,659 517,980,644 Other expenses - - - - - Loss on financial derivatives - - - - - Loss on financial derivatives - - 97,533,923 49,586,533 Management's remuneration 1,580,811 797,861 820,214 785,642 Impairment loss on assets 57,896,251 59,241,885 59,035,265 58,292,332 Finance costs <td>Gain on foreign exchange</td> <td>-</td> <td>14,351,726</td> <td>6,572,364</td> <td>6,223,387</td>	Gain on foreign exchange	-	14,351,726	6,572,364	6,223,387
Other income 12,375,135 7,127,104 10,675,096 11,305,277 Total Revenues 1,088,006,463 1,108,720,526 1,102,401,519 1,084,548,890 Expenses 0 11,920,878 20,361,689 15,583,064 25,486,002 Administrative expenses 92,016,021 38,466,880 56,134,551 30,325,339 Petroleum royalties and remuneration 87,892,910 88,924,530 87,967,397 88,323,501 Depreciation, depletion and amortization 509,335,455 534,407,622 517,686,659 517,980,644 Other expenses 2 15,560,457 - - - - Loss on freign exchange 15,560,457 - - - - - Loss on freign exchange 15,580,457 - - - - - Loss on freign exchange 15,580,457 - - - - - Loss on freign exchange 15,580,457 - - - - - - - - - <th< td=""><td>Interest income</td><td>9,659,695</td><td>7,210,535</td><td>7,452,250</td><td>5,742,545</td></th<>	Interest income	9,659,695	7,210,535	7,452,250	5,742,545
Total Revenues 1,088,006,463 1,108,720,526 1,102,401,519 1,084,548,890 Expenses 0 1,088,006,463 1,108,720,526 1,102,401,519 1,084,548,890 Operating expenses 167,386,453 146,011,694 138,679,994 130,052,595 Exploration expenses 11,920,878 20,361,689 15,583,064 25,486,002 Administrative expenses 92,016,021 38,466,880 58,134,551 30,325,339 Petroleum royalties and remuneration 87,892,910 88,924,530 87,967,397 88,323,501 Depreciation, depletion and amortization 509,335,454 534,407,622 517,806,659 517,980,644 Other expenses Uses on financial drivatives - - 97,533,923 49,586,533 Management's remuneration 1,580,811 797,861 820,214 785,642 Impairment loss on assets 47,150,837 - - - Total Expenses 990,740,072 888,212,161 975,413,067 90,825,883 Share of gain from associates and joint ventures 2,381,043 128,817,0	Gain on financial derivatives	14,311,187	14,620,515	-	-
Expenses Image: constraint of the systems <	Other income	12,375,135	7,127,104	10,675,096	11,305,277
Operating expenses 167,386,453 146,011,694 138,679,994 130,052,595 Exploration expenses 11,920,878 20,361,689 15,583,064 25,486,002 Administrative expenses 92,016,021 38,466,880 58,134,551 30,325,339 Petroleum royalties and remuneration 87,892,910 88,924,530 87,967,397 88,323,501 Depreciation, depletion and amortization 509,335,454 534,407,622 517,686,659 517,980,644 Other expenses 15,560,457 -	Total Revenues	1,088,006,463	1,108,720,526	1,102,401,519	1,084,548,890
Exploration expenses 11,920,878 20,361,689 15,583,064 25,486,002 Administrative expenses 92,016,021 38,466,880 58,134,551 30,325,339 Petroleum royalties and remuneration 87,892,910 88,924,530 87,967,397 88,323,501 Depreciation, depletion and amortization 509,335,454 534,407,622 517,658,659 517,980,644 Other expenses Loss on foreign exchange 15,560,457 - - - Loss on financial derivatives - 97,533,923 49,586,533 Management's remuneration 1,580,811 797,861 820,214 785,642 Impairment loss on assets 47,150,837 - - - - Finance costs 57,896,251 59,241,885 59,035,265 58,292,332 Total Expenses 99,625,402 222,849,413 128,817,067 185,734,724 Income tax expenses (13,322,118) (67,481,839) (54,598,693) (29,904,152) Profit (loss) for the period from discontinued operations - net of tax 17,635,015 272,758 1,135,156 1,	Expenses				
Administrative expenses 92,016,021 38,466,880 58,134,551 30,325,339 Petroleum royalties and remuneration 87,892,910 88,924,530 87,967,397 88,323,501 Depreciation, depletion and amortization 509,335,454 534,407,622 517,568,659 517,980,644 Other expenses - - - - Loss on foreign exchange 15,560,457 - - - - Loss on financial derivatives - 97,533,923 49,586,533 49,586,533 Management's remuneration 1,580,811 797,861 820,214 785,642 Impairment loss on assets 47,150,837 - - - Finance costs 57,896,251 59,041,885 59,035,265 58,293,382 Share of gain from associates and joint ventures 2,359,011 2,341,048 1,828,615 2,018,422 Profit before income taxes (13,322,118) (67,481,839) (54,598,693) (29,904,152) Profit (loss) for the period from discontinuing operations - met of atm 17,635,015 272,758 1,135,156 1,291,184 Profit (loss) for the period from discontinune	Operating expenses	167,386,453	146,011,694	138,679,994	130,052,595
Petroleum royalties and remuneration 87,892,910 88,924,530 87,967,397 88,323,501 Depreciation, depletion and amortization 509,335,454 534,407,622 517,658,659 517,980,644 Other expenses - - - Loss on foreign exchange 15,560,457 - - - Loss on financial derivatives - 97,533,923 49,586,533 Management's remuneration 1,580,811 797,861 820,214 785,642 Impairment loss on assets 47,150,837 - - - Finance costs 59,035,265 58,292,332 990,740,072 888,212,161 975,413,067 900,832,588 Share of gain from associates and joint ventures 2,350,011 2,341,048 1,828,615 2,018,422 Profit before income taxes 103,322,118) (67,481,839) (54,598,693) (29,904,152) Profit (loss) for the period from discontinued operations - net of tax 17,635,015 272,758 1,135,156 1,291,184 Profit (loss) for the period from discontinued operations - net of tax 17,	Exploration expenses	11,920,878	20,361,689	15,583,064	25,486,002
Depreciation, depletion and amortization 509,335,454 534,407,622 517,658,659 517,980,644 Other expenses Loss on foreign exchange 15,560,457 - - - Loss on financial derivatives - 97,533,923 49,586,533 49,586,533 Management's remuneration 1,580,811 797,861 820,214 785,642 Impairment loss on assets 47,150,837 - - - Finance costs 57,896,251 59,241,885 59,035,265 58,292,332 Total Expenses 990,740,072 888,212,161 975,413,067 900,832,588 Share of gain from associates and joint ventures 2,359,011 2,341,048 1,828,015 2,018,422 Profit before income taxes 99,625,402 222,849,413 128,817,067 185,734,724 Income tax expenses (13,322,118) (67,481,839) (54,598,693) (29,904,152) Profit (loss) for the period from continuing operations (33,696,716) 155,367,574 74,218,374 155,830,572 Profit (loss) for the period from discontinued operations - net of tax	Administrative expenses	92,016,021	38,466,880	58,134,551	30,325,339
Other expenses Loss on foreign exchange 15,560,457 - - Loss on financial derivatives - 97,533,923 49,586,533 Management's remuneration 1,580,811 797,861 820,214 785,642 Impairment loss on assets 47,150,837 - - - Finance costs 57,896,251 59,241,885 59,035,265 58,292,332 Total Expenses 990,740,072 888,212,161 975,413,067 900,832,588 Share of gain from associates and joint ventures 2,359,011 2,341,048 1,828,615 2,018,422 Profit before income taxes 99,625,402 222,849,413 128,817,067 185,734,724 Income tax expenses (133,322,118) (67,481,839) (54,598,693) (29,904,152) Profit (loss) for the period from continuing operations - net of tax 17,635,015 272,758 1,135,156 1,291,184 Profit (loss) for the year (16,061,701) 155,640,332 75,353,530 157,121,756 Earnings per share (0.01) 0.04 0.01 0.04	Petroleum royalties and remuneration	87,892,910	88,924,530	87,967,397	88,323,501
Loss on foreign exchange 15,560,457 - - Loss on financial derivatives - 97,533,923 49,586,533 Management's remuneration 1,580,811 797,861 820,214 785,642 Impairment loss on assets 47,150,837 - - - Finance costs 57,896,251 59,241,885 59,035,265 58,292,332 Total Expenses 990,740,072 888,212,161 975,413,067 900,832,588 Share of gain from associates and joint ventures 2,359,011 2,341,048 1,828,615 2,018,422 Profit before income taxes 133,322,118 (67,481,839) (54,598,693) (29,904,152) Profit (loss) for the period from continuing operations (13,3322,118) (67,481,839) (54,598,693) (29,904,152) Profit (loss) for the period from discontinued operations - net of tax 17,635,015 272,758 1,135,156 1,291,184 Profit (loss) for the period from discontinued operations - net of tax 17,635,015 272,758 1,135,156 1,291,184 Profit (loss) for the period from discontinued operations - net of tax (16,061,701	Depreciation, depletion and amortization	509,335,454	534,407,622	517,658,659	517,980,644
Loss on financial derivatives - - 97,533,923 49,586,533 Management's remuneration 1,580,811 797,861 820,214 785,642 Impairment loss on assets 47,150,837 - - - Finance costs 57,896,251 59,241,885 59,035,265 58,292,332 Total Expenses 990,740,072 888,212,161 975,413,067 900,832,588 Share of gain from associates and joint ventures 2,359,011 2,341,048 1,828,615 2,018,422 Profit before income taxes 99,625,402 222,849,413 128,817,067 185,734,724 Income tax expenses (133,322,118) (67,481,839) (54,598,693) (29,904,152) Profit (loss) for the period from continuing operations (33,696,716) 155,367,574 74,218,374 155,830,572 Profit (loss) for the year (16,061,701) 155,640,332 75,353,530 157,121,756 Earnings per share (0.01) 0.04 0.01 0.04 Basic earnings per share (0.01) 0.04 0.01 0.04	Other expenses				
Management's remuneration 1,580,811 797,861 820,214 785,642 Impairment loss on assets 47,150,837 - - - Finance costs 57,896,251 59,041,885 59,035,265 58,292,332 Total Expenses 990,740,072 888,212,161 975,413,067 900,832,588 Share of gain from associates and joint ventures 2,359,011 2,341,048 1,828,615 2,018,422 Profit before income taxes 99,625,402 222,849,413 128,817,067 185,734,724 Income tax expenses (133,322,118) (67,481,839) (54,598,693) (29,904,152) Profit (loss) for the period from continuing operations (33,696,716) 155,367,574 74,218,374 155,830,572 Profit (loss) for the period from discontinued operations - net of tax 17,635,015 272,758 1,135,156 1,291,184 Profit (loss) for the year (16,061,701) 155,640,332 75,353,530 157,121,756 Earnings per share (0.01) 0.04 0.01 0.04 Ontinuing operations (0.01) 0.04 0.01 0.04	Loss on foreign exchange	15,560,457	-	-	-
Impairment loss on assets 47,150,837 -	Loss on financial derivatives	-	-	97,533,923	49,586,533
Finance costs 57,896,251 59,241,885 59,035,265 58,292,332 Total Expenses 990,740,072 888,212,161 975,413,067 900,832,588 Share of gain from associates and joint ventures 2,359,011 2,341,048 1,828,615 2,018,422 Profit before income taxes 99,625,402 222,849,413 128,817,067 185,734,724 Income tax expenses (133,322,118) (67,481,839) (54,598,693) (29,904,152) Profit (loss) for the period from continuing operations (33,696,716) 155,367,574 74,218,374 155,830,572 Profit (loss) for the period from discontinued operations - net of tax 17,635,015 272,758 1,135,156 1,291,184 Profit (loss) for the year (16,061,701) 155,640,332 75,353,530 157,121,756 Earnings per share (0.01) 0.04 0.01 0.04 0.04	Management's remuneration	1,580,811	797,861	820,214	785,642
Total Expenses 990,740,072 888,212,161 975,413,067 900,832,588 Share of gain from associates and joint ventures 2,359,011 2,341,048 1,828,615 2,018,422 Profit before income taxes 99,625,402 222,849,413 128,817,067 185,734,724 Income tax expenses (133,322,118) (67,481,839) (54,598,693) (29,904,152) Profit (loss) for the period from continuing operations (33,696,716) 155,367,574 74,218,374 155,830,572 Profit (loss) for the period from discontinued operations - net of tax 17,635,015 272,758 1,135,156 1,291,184 Profit (loss) for the year (16,061,701) 155,640,332 75,353,530 157,121,756 Earnings per share (0.01) 0.04 0.01 0.04	Impairment loss on assets	47,150,837	-	-	-
Share of gain from associates and joint ventures 2,359,011 2,341,048 1,828,615 2,018,422 Profit before income taxes 99,625,402 222,849,413 128,817,067 185,734,724 Income tax expenses (133,322,118) (67,481,839) (54,598,693) (29,904,152) Profit (loss) for the period from continuing operations (33,696,716) 155,367,574 74,218,374 155,830,572 Profit (loss) for the period from discontinued operations - net of tax 17,635,015 272,758 1,135,156 1,291,184 Profit (loss) for the year (16,061,701) 155,640,332 75,353,530 157,121,756 Earnings per share (0.01) 0.04 0.01 0.04 Operations (0.01) 0.04 0.01 0.04	Finance costs	57,896,251	59,241,885	59,035,265	58,292,332
Profit before income taxes 99,625,402 222,849,413 128,817,067 185,734,724 Income tax expenses (133,322,118) (67,481,839) (54,598,693) (29,904,152) Profit (loss) for the period from continuing operations (33,696,716) 155,367,574 74,218,374 155,830,572 Profit (loss) for the period from discontinued operations - net of tax 17,635,015 272,758 1,135,156 1,291,184 Profit (loss) for the year (16,061,701) 155,640,332 75,353,530 157,121,756 Earnings per share (0.01) 0.04 0.01 0.04	Total Expenses	990,740,072	888,212,161	975,413,067	900,832,588
Income tax expenses (133,322,118) (67,481,839) (54,598,693) (29,904,152) Profit (loss) for the period from continuing operations (33,696,716) 155,367,574 74,218,374 155,830,572 Profit (loss) for the period from discontinued operations - net of tax 17,635,015 272,758 1,135,156 1,291,184 Profit (loss) for the year (16,061,701) 155,640,332 75,353,530 157,121,756 Earnings per share (0.01) 0.04 0.01 0.04 Operations (0.01) 0.04 0.01 0.04	Share of gain from associates and joint ventures	2,359,011	2,341,048	1,828,615	2,018,422
Profit (loss) for the period from continuing operations (33,696,716) 155,367,574 74,218,374 155,830,572 Profit (loss) for the period from discontinued operations - net of tax 17,635,015 272,758 1,135,156 1,291,184 Profit (loss) for the year (16,061,701) 155,640,332 75,353,530 157,121,756 Earnings per share (0.01) 0.04 0.01 0.04	Profit before income taxes	99,625,402	222,849,413	128,817,067	185,734,724
Profit (loss) for the period from discontinued operations - net of tax 17,635,015 272,758 1,135,156 1,291,184 Profit (loss) for the year (16,061,701) 155,640,332 75,353,530 157,121,756 Earnings per share Basic earnings per share 0.01 0.04 0.01 0.04	Income tax expenses	(133,322,118)	(67,481,839)	(54,598,693)	(29,904,152)
Profit (loss) for the year (16,061,701) 155,640,332 75,353,530 157,121,756 Earnings per share Basic earnings per share 0.001 0.04 0.01 0.04 Continuing operations 0.001 0.021 0.0020 0.0000 0.0000 0.0000	Profit (loss) for the period from continuing operations	(33,696,716)	155,367,574	74,218,374	155,830,572
Earnings per share Basic earnings per share Continuing operations (0.01) 0.04 0.01 0.04 0.00 0.0	Profit (loss) for the period from discontinued operations - net of tax	17,635,015	272,758	1,135,156	1,291,184
Basic earnings per share (0.01) 0.04 0.01 0.04 Continuing operations 0.001 0.002 0.0000 0.0000	Profit (loss) for the year	(16,061,701)	155,640,332	75,353,530	157,121,756
Continuing operations (0.01) 0.04 0.01 0.04	Earnings per share				
	Basic earnings per share				
Discontinued operations 0.004 0.0001 0.0003 0.0003	Continuing operations	(0.01)	0.04	0.01	0.04
	Discontinued operations	0.004	0.0001	0.0003	0.0003

Year2015 4thQ 3thQ 2thQ 1thQ Revenues Sales 1,203,142,435 1,307,063,718 1,389,039,254 1,387,426,514 Revenue from pipeline transportation 22,964,786 29,836,406 30,536,212 35,150,233 Other income _ Gain on foreign exchange 3,970,383 ---Interest income 6,367,880 5,385,246 11,170,866 8,992,329 Gain on financial derivatives 78,032,960 101,724,886 7,045,036 _ Other income 13,061,506 13,410,017 10,242,618 8,485,622 **Total Revenues** 1,327,539,950 1,457,420,273 1,439,231,954 1,448,856,730 Expenses Operating expenses 170,426,047 177,055,939 174,880,888 162,743,240 Exploration expenses 53,211,965 78,104,557 38,281,590 13,016,551 96,908,756 51,219,154 Administrative expenses 54,472,978 71,999,752 Petroleum royalties and remuneration 97,160,368 107,121,360 112,714,666 109,048,079 Depreciation, depletion and amortization 612,667,852 644,241,169 723,921,564 726,702,763 Other expenses Loss on foreign exchange 20,172,882 18,831,803 34,370,270 Loss on financial derivatives -54,641,472 -1,165,405 Management's remuneration 169,881 956,325 1,486,834 Impairment loss on assets 1,349,618,465 Finance costs 49,455,780 61,457,418 72,234,408 68,549,454 **Total Expenses** 1,080,000,649 2,493,201,093 1,268,671,548 1,167,136,345 Share of gain from associates and joint ventures 2,474,224 2,619,506 2,072,797 1,861,150 Profit before income taxes 249,612,098 (1,033,306,596) 172,421,556 284,339,891 Income tax expenses (118,140,229) (220,335,593) (137, 176, 866) (19,865,479) Profit (loss) for the period from continuing operations 131,471,869 (1,253,642,189)35,244,690 264,474,412 Profit (loss) for the period from discontinued operations - net 477,347 (30,812,564) (115,818) (688,186) Profit (loss) for the year 131,949,216 (1,284,454,753) 35,128,872 263,786,226 Earnings per share Basic earnings per share 0.005 0.07 0.03 (0.31) Continuing operations 0.0001 (0.008)(0.00003)(0.0002)**Discontinued operations**

Unit: US Dollar

Petroleum Sales Volume and Average Unit Prices

	2016	2015
Net sales of petroleum (BOED)	319,521	322,167
Average petroleum unit prices		
Average unit prices of crude oil and condensate (USD/BBL)	41.17	50.05
Average unit prices of natural gas (USD/MMBTU)	5.60	7.20
Average unit prices of petroleum (USD/BOE)	35.91	45.29
Lifting cost (USD/BOE)	4.18	4.62