

**PETROMINERALES**

PETROMINERALES PERU S.A.

Daily Drilling Report

Well: LCOL02XD				Report No.: 28				Report Date: 04/01/2012			
Wellbore No.: OH			Well Name: LA COLPA-2XD				Common Name: LCOL002XD				
Project: BLOQUE 126			Site: LA COLPA-2XD				Rig Name/No.: PTX/5825				
Event: ORIG DRILLING-PR			Start Date: 08/12/2011				Spud Date: 08/12/2011				
AFE No.: DR-PE-B1211-001							Currency:				
Active Datum: ROTARY TABLE @828.8ft (above Mean Sea Level)							UWI:				
WELL INFO											
API No.:		BLOQUE 126		Engineer: J. BARRERA / W. BAQUERO				CoMan / Assistant: FERNANDO ROMERO / FELIX CUADROS			
DEPTH DAYS											
MD:		4,472.0 ft		TVD:		4,471.7 ft		Progress:		711.0 ft	
Avg ROP:		33.1 ft/hr		Rotating Hours:		21.50 hr		Cum Rot Hrs:		119.25 hr	
DFS:		27.63 days		Est Days:		61.40 days		MD Auth:		9,527.1 ft	
Last Casing: 13.375 in @ 3,537.0 ft											
STATUS											
06:00 hr. Update: Perforando hoyo direccional de 12 1/4" a 4680 pies.											
24 Hr Summary: Perforó hoyo de 12 1/4" de 3761 a 4472 pies. Realiza doble repaso y survey cada parada perforada. Dosifica LCM por hora, 01 Sx c/u de Carbonato de calcio 75, 150 y Qstop.											
24 Hr Forecast: Continuar perforando y desviando hoyo de 12 1/4" hasta tope de Agua Caliente, realizar viaje corto y tratar lodo. Bajar y continuar perforando.											
COSTS											
Daily Cost: 117,008.55 \$			Authorized Cost: 15,348,976.00 \$				Cumulative Total: 7,765,224.30 \$			Expenditure: 50.59%	
OPERATION SUMMARY											
From	To	Dur. (hr)	Phase	Code	Sub	Class	MD From (ft)	MD To (ft)	Operation		
0:00	0:30	0.50	DIN1	DRIL		PL	3,761.0	3,808.0	Perforó de 3761 a 3808 pies con los siguientes parámetros, caudal: 737 GPM, Bombas #2 y #3: 112 SPM, SSP: 2200 psi, RPM: 100, WOB: 8 - 10 Klb, TQ: 3 - 5 Lb-pie. Realizó survey.		
0:30	1:30	1.00	DIN1	CIRC		UI	3,808.0	3,808.0	Circuló a 3808 pies para limpiar fondo de pozo.		
1:30	6:00	4.50	DIN1	DRIL		PL	3,808.0	4,045.0	Perforó de 3808 a 4045 pies con los siguientes parámetros, caudal: 740 GPM, Bombas #2 y #3: 112 SPM, SSP: 2200 psi, RPM: 100, WOB: 8 - 10 Klb, TQ: 3 - 5 Lb-pie.		
6:00	7:30	1.50	DIN1	DRIL		PL	4,045.0	4,091.0	Perforó de 4045 a 4091 pies con los siguientes parámetros, caudal: 726 GPM, Bombas #2 y #3: 112 SPM, SSP: 2316 psi, RPM: 90, WOB: 4 - 8 Klb, TQ: 8 - 10 Lb-pie. Realiza doble repaso y survey cada parada perforada. Presión reducida: Bomba #2: 30 SPM, caudal: 101 GPM, SPP: 120 psi Bomba #3: 40 SPM, caudal: 134 GPM, SPP: 180 psi		
7:30	8:00	0.50	DIN1	RRE P		UE	4,085.0	4,085.0	Falla de bomba #2. Fuga en línea de alta, realizó cambio de empaque.		
8:00	17:00	9.00	DIN1	DRIL		PL	4,085.0	4,311.0	Perforó de 4091 a 4311 pies con los siguientes parámetros, caudal: 742 GPM, Bombas #2 y #3: 113 SPM, SSP: 2560 psi, RPM: 110, WOB: 6 - 8 Klb, TQ: 3 - 5 Lb-pie. Realiza doble repaso y survey cada parada perforada.		
17:00	17:30	0.50	DIN1	RSE R		PL	4,311.0	4,311.0	Realiza mantenimiento del rig		
17:30	21:00	3.50	DIN1	DRIL		PL	4,311.0	4,411.0	Perforó de 4311 a 4411 pies con los siguientes parámetros, caudal: 740 GPM, Bombas #1 y #3: 112 SPM, SSP: 2525 psi, RPM: 110, WOB: 6 - 8 Klb, TQ: 3 - 5 Lb-pie. Realiza doble repaso y survey cada parada perforada.		
21:00	21:30	0.50	DIN1	RRE P		UE	4,411.0	4,411.0	Cambio de piston y y repara módulos de las bombas #2 y #3.		
21:30	0:00	2.50	DIN1	DRIL		PL	4,411.0	4,472.0	Perforó de 4411 a 4472 pies con los siguientes parámetros, caudal: 740 GPM, Bombas #1 y #3: 112 SPM, SSP: 2550 psi, RPM: 110, WOB: 6 - 8 Klb, TQ: 3 - 5 Lb-pie. Realiza doble repaso y survey cada parada perforada.		

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HOLE SECTIONS

Section Name	Section Type	Effective Hole Diameter (in)	ID (in)	MD (ft)		Hole Section Start Date/Time	Hole Section End Date/Time
				Top	Base		
Hoyo de 24"	Open Hole	24.000	24.000	0.00	148.50	08/12/2011 12:00p.m.	13/12/2011 01:30p.m.
Hoyo de 12 1/4"	Open Hole			3,540.00	5,520.00	02/01/2012 09:30p.m.	

MUD

Daily Mud: 15,292.59 \$					Cum Mud Cost: 236,676.34 \$							
Mud Desc	Density (ppg)	Viscosity (s/qt)	Date/Time	MD Check (ft)	PV (cp)	YP (lbf/100ft²)	Cl- (ppm)	Ca+ (ppm)	pH	Pm	Pf (cc)	Mf (cc)
MAXDRILL-N	10.50	59.00	1/4/2012 23:01	4,458.0	18.00	24.00	200	80	9.20		0.22	0.44

BHA No.# 8

Bit No.: 5

Date/Time In: 03/01/2012 07:30a.m.			Date/Time Out:			Purpose:		
BHA Length: 878.44 (ft)			Min ID:			Weight (Above/Below) Jars: 71.3/ (49.9kip)		
MD (ft)	Footage (ft)	String Wt Up / Down / Rot (kip)			Drag (kip)	TQ On/Off (ft-lbf)		
4,472.0	711.0				0.0			

Assembly Components

Component Type	Number of Joints	Length (ft)	OD (in)	ID (in)	Connection		Weight (ppf)	Grade	Pin Box	Serial No.	Left Or Right Spiral	Fish Neck	
					OD (in)	Name						Length (ft)	OD (in)
Heavy Weight Drill Pipe	12	368.78	5.000	3.000	6.625	NC50	50.00	4145H MOD	PB				
Hydraulic Jar	1	32.55	6.500	2.750	6.437	API REG	90.00	4145H MOD	PB	1760-1593			
Heavy Weight Drill Pipe	3	92.20	5.000	3.000	6.625	NC 50	50.00	4145H MOD	PB				
Drill Collar	9	282.87	6.750	2.750	6.635	API REG	100.00	4145H MOD	PB				
Cross Over	1	3.31	6.625	2.875	6.625	NC50	120.00	4145H MOD	PB	53976		1.50	6.720
Non-Mag Drill Collar	1	30.92	8.750	2.812	6.625	API REG	200.00	4145H MOD	BP	53976			
Saver Sub	1	1.45	8.250	2.812	6.625	API REG	150.00	4145H MOD	PB	11563			
MWD Tool	1	25.23	8.250	2.812	6.625	FH	150.00	4145H MOD	BB	E6197			
Saver Sub	1	1.09	8.250	4.250	6.625	FH	150.00	4145H MOD	PP	S3974-1B			
Logging While Drilling	1	17.87	8.375	2.812	6.625	FH	150.00	4145H MOD	BB	1933			
Saver Sub	1	1.21	8.250	2.812	5.500	IF	150.00	4145H MOD	PP	11778-4			
Steerable Stabilizer	1	6.11	8.375	2.812	6.625	FH	150.00	4145H MOD	PB	53985			
PWD	1	13.78	9.250	2.812	6.625	API REG	150.00	4145H MOD	BB	03021			
Polycrystalline Diamond Bit	1	1.07	17.500		6.625	API REG	420.00	4145H MOD		E147657			

Bit Details

Bit No.	Size	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (32nd")	MD In (ft)	MD Out (ft)	I-O-D-L-B-G-O-R
5	12.250	Security DBS	RSR 519MB3	N	M323	E147657	3X12, 4X13	3,555.0		-----

TODAY**CUMULATIVE**

MD (ft)	WOB Min/Max (kip)	Current RPM (rpm)	Flow Rate (gpm)	SPP (psi)	P Bit (psi)	% @ Bit	HPH (hp)	Hours (hr)	Footage (ft)	ROP (ft/hr)	Hours Cum (hr)	Footage Cum (ft)	ROP Cum (ft/hr)
3,761.0	6.00/8.00	110	740.0	2,550.0	733.2	28.8	316.5	21.50	711.0	33.1	25.50	917.0	36.0

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Project: BLOQUE 126	Site: LA COLPA-2XD	Rig Name/No.: PTX/5825		
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PUMP/HYDRAULICS

No.	Make/Model	Stroke (in)	Liner Size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1	NATIONAL / 10-P-130	10.00	6.000	90.00	2,560.0	112.00	370.1	
2	NATIONAL / 10-P-130	10.00	6.000	90.00	2,316.0	112.00	370.1	
3	NATIONAL / 10-P-130	10.00	6.000	90.00	2,560.0	112.00	370.1	

SURVEYS

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Survey Tool
4,032.5	0.13	190.58	4,032.2	-7.6	1.5	-7.6	0.27	MWD
4,126.6	0.10	344.92	4,126.3	-7.6	1.5	-7.6	0.24	MWD
4,221.8	0.14	156.82	4,221.5	-7.6	1.5	-7.6	0.25	MWD
4,315.8	0.10	152.94	4,315.5	-7.8	1.6	-7.8	0.04	MWD
4,411.7	0.12	25.15	4,411.4	-7.8	1.7	-7.8	0.21	MWD
4,507.0	0.09	254.90	4,506.7	-7.7	1.7	-7.7	0.20	MWD
4,603.3	1.96	215.68	4,603.0	-9.1	0.6	-9.1	1.96	MWD

MUD SYSTEM

Gas	Volumes	Losses
Avg Conn Gas (%):	Total String Vol (bbl): 72.0	Surface Total (bbl) : 70.0
Max Connection Gas (%):	Total Annular Vol (bbl): 559.0	Subsurface Total (bbl) :
Avg Trip Gas (%):	Total Pit Vol (bbl): 729.0	
Max Trip Gas (%):	Lines (bbl): 0.0	
Avg Background Gas (%):		
Max Background Gas (%):	Total System Vol (bbl): 631.0	Total (bbl): 70.0

MUD PRODUCTS

Product	Units	Used	Day Cost (\$)	Quantity End
CITRIC ACID	Lb		0.00	35.00
BARITE	Lb		0.00	290.00
CALCARB M50-150	Lb		0.00	25.00
CALCARB M40-100	Lb		0.00	30.00
CALCARB M50-150	Lb	30.00	573.30	70.00
CALCARB M325	Lb	280.00	5,451.60	800.00
CALCARB M10-40	Lb	30.00	573.30	70.00
DRISPAC	lb		0.00	11.00
KELZAN XCD	Lb		0.00	30.00
KWIK SEAL C	Lb		0.00	100.00
KWIK SEAL F	Lb		0.00	50.00
KWIK SEAL M	Lb		0.00	50.00
GLYMAX	Gal		0.00	1.00
NATURAL GEL	Lb		0.00	149.00
Q-CIDE 25	Gal	2.00	360.86	22.00
Q-DEFOAM OS	Gal	2.00	533.46	27.00
MAX-DRILL	Gal	1.00	1,797.42	13.00
Q-STAR HT	Lb	15.00	1,668.45	46.00
Q-STOP F	Lb	33.00	1,391.61	58.00
CAUSTIC SODA	Lb	2.00	66.36	42.00
ASPHASOL D	Lb		0.00	40.00
GYPSUM	Lb		0.00	47.00

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MUD PRODUCTS

Product	Units	Used	Day Cost (\$)	Quantity End
BICARBONATE SOD	Lb		0.00	40.00
SYNERFLOC A25D	Lb	8.00	1,697.36	25.00
WALL NUT	Lb		0.00	23.00
DRILLING DETERGE	Gal		0.00	4.00
DRISCAL	Lb		0.00	113.00
ENGINEER	EA		0.00	0.00
INTEGRATE SERVIC	Unid		0.00	0.00
LC LUBE	unid		0.00	0.00
Q-LUBE	Gal	1.00	1,178.87	3.00

SAFETY**Status**

DSLTI:	DSLTA: 188.00 (days)	STOP Cards: 1.00
Inspections/Drills		
Drill Type:	Arremetida	Last Drill: 5.00 (days)
Last Weekly Rig Check:	Daily Inspection Done:	08/12/2011
Last Csg Press Test:	Last Csg Press:	
Test COM.:	Ton Miles:	1020 (ton-mi)

BOP Pressure Tests

Last BOP Pressure Test:	29/12/2011	Next Test Due:	13/01/2012	Last BOP Function Test:	29/12/2011	Last BOP Drill:	29/12/2011
Standpipe Manifold:		Kelly Hose:		Diverter Pressure:		Annular Press:	1,500.0 (psi)
Upper Rams:		Lower Rams:	2,500.0 (psi)	Choke Line:	2,500.0 (psi)	Choke Manifold:	3,500.0 (psi)
Kill Line:							

PERSONNEL

Total No. of People: 164			
Company	No. People	Company	No. People
PETROMINERALES	4	PETREX	52
CIANO	18	CORPESA	22
JET SOLUTIONS	4	NATIONAL OILWELL VARCO	14
CAIMM	2	BUREAU VERITAS	4
WEATHERFORD	10	SCHLUMBERGER	9
QMAX	3	INTERTEK	1
SAFETY AIR	1	PROTEGE ORIENTE	6
CSM	9	OTHER	5

MATERIALS

Product Name	Weight/Vol Per Unit	Usage	Quantity End	Product Name	Weight/Vol Per Unit	Usage	Quantity End
CEMENT	sacos		0.00	DIESEL	gal		9,835.00
BARITE BULK	sacos		420.00				



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WEATHER

Time: 00:00	Weather: Soleado	Comments:
Daily High/Low Temp: 89.0(°F) /89.0(°F)	Visibility: 0.50(mi)	Ceiling: 300.0(ft)
	10m Wind Spd: 4.0(knots)	Gust Spd:

CURRENTS		MAX/SIG WAVE			SWELL	VESSEL				
Speed (knots)	Dir (°)	Ht. (ft)	Dir (°)	Period (sec)	Ht. (ft)	Heave (ft)	Pitch (°)	Roll (°)	Offset (ft)	Heading (°)
		/	/	/						

INPUT FLUID

Oil:	0.0 (bbl)	H2O:	0.0 (bbl)	Other:	0.0 (bbl)
Cum Oil:		Cum H2O:		Cum Other:	

FLUID RECOVERED

Oil:	0.0 (bbl)	H2O:	0.0 (bbl)	Other:	0.0 (bbl)
Cum Oil:	0.0 (bbl)	Cum H2O:	0.0 (bbl)	Cum Other:	0.0 (bbl)

FLUID LEFT TO RECOVER

Oil:	0.0 (bbl)	H2O:	0.0 (bbl)	Other:	0.0 (bbl)
Cum Oil:		Cum H2O:		Cum Other:	

REMARKS

COMENTARIOS:

Actividades del 05/01/2012:

00:00 - 01:15: Perforó de 4472 a 4510 pies con los siguientes parámetros, caudal: 740 GPM, Bombas #1 y#3: 112 SPM, SSP: 2580 psi, RPM: 110, WOB: 6 - 8 Klb, TQ: 3 - 5 Lb-pie.

01:15 - 01:30: Realiza down link a herramienta direccional (power drive) para realizar desvío de pozo.

01:30 - 02:45: Perforó de 4510 a 4572 pies con los siguientes parámetros, caudal: 740 GPM, Bombas #1 y#3: 112 SPM, SSP: 2580 psi, RPM: 110, WOB: 6 - 8 Klb, TQ: 3 - 5 Lb-pie. Realiza survey. Realizó desvío de pozo, KOP: 4565 pies.

02:45 - 06:00: Perforó de 4572 a 4680 pies con los siguientes parámetros, caudal: 750 GPM, Bombas #1 y#2: 114 SPM, SSP: 2640 psi, RPM: 110, WOB: 6 - 8 Klb, TQ: 3 - 5 Lb-pie. Cambió bomba #3 por #2 para revisión de sellos de contratapa de módulo de succión. Último survey a 4603.33 pies, Inc: 1.96°, Azim: 215.68°.

Nota: Realiza doble repaso y survey cada parada perforada. Dosifica LCM por hora, 01 Sx c/u de Carbonato de calcio 75, 150 y Qstop.

Tipo de fluido de perforación, MAXDRILL IN:

Densidad: 10.5 lpg, PV: 18, YP: 24 Geles: 6/10/13 Filtrado: 5.8, pH: 9.5, Cl-: 200 ppm Ca+: 80 ppm, Sólidos: 18% MBT: 5.

Litología:

Intervalo	Litología	Formación
3740 - 3770	100% arcilla	Red Beds
3980 - 3988	90% arcilla, 10% areniscas	Casablanca
4130 - 4150	60% lutitas, 20% arcilla, 10% areniscas	Cachiyacu
4220 - 4230	90% marga, 10% arcilla	Chonta
4360 - 4370	80% marga, 20% Lutita	Chonta
4590 - 4600	70% arcilla, 30% marga	Chonta

Topes Formacionales:

Casablanca: 3988 pies
Cachiyacu : 4132 pies
Vivian : 4155 pies
Chonta : 4205 pies

Virutas de metal recuperado:

Día: 23 gr

Acumulado: 41 gr

Sólidos recuperados:

Vol real diario: 93.65 bbls

Vol teórico diario: 136.5 bbls

Dif: 39.85 bbls

Vol real Acum: 135.57 bbls

Vol teórico Acum: 183.12 bbls

Dif: 47.55 bbls

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REMARKS

Logística:

Vuelos de carga Chinook:

1er: 04 pallets carbonato de calcio 325 y 04 tambores de silicato 075.

2do: Dog house de Schlumberger.

3er: 04 pallets carbonato de calcio 325 y 01 pallet Qlube.

4to: 04 pallets carbonato de calcio 325 y 03 unimatts tipo A

5to: Quemador Evergreen

6to: 04 pallets carbonato de calcio 325 y 03 unimatts tipoA.

Vuelos de MI 171:

OB 1988:

1er: 02 bladders de diesel 2

2do: 02 bladders de diesel 2

3er: 02 paquetes de calaminas

4to: Skid con materiales varios de Corpesa

Stock de Diesel 2: 9,835 galones