State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez

Governor

David Martin
Cabinet Secretary

David R. Catanach, Division Director Oil Conservation Division



Brett F. Woods, Ph.D. Deputy Cabinet Secretary

New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-3 APD form.

to the actions approved by BLM on the following 3160-3 APD form.
Operator Signature Date: $2-25-15$ Well information; Operator $Encana$, Well Name and Number y brook 030 y
Conditions of Approval: (See the below checked and handwritten conditions) Notify Aztec OCD 24hrs prior to casing & cement. Hold C-104 for directional survey & "As Drilled" Plat Hold C-104 for NSD NSP DHC
 Spacing rule violation. Operator must follow up with change of status notification on other wel to be shut in or abandoned
 Regarding the use of a pit, closed loop system or below grade tank, the operator must comply with the following as applicable:
• A pit requires a complete C-144 be submitted and approved prior to the construction or use of the pit, pursuant to 19.15.17.8.A

- A closed loop system requires notification prior to use, pursuant to 19.15.17.9.A
- A below grade tank requires a registration be filed prior to the construction or use of the below grade tank, pursuant to 19.15.17.8.C
- Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
- Regarding Hydraulic Fracturing, review EPA Underground Injection Control Guidance 84
- Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.
- Well-bore communication is regulated under 19.15.29 NMAC. This requires well-bore Communication to be reported in accordance with 19.15.29.8.

NMOCD Approved by Signature

<u>4-24-2015</u> Date 11

Form	31	60	-3
(Mar	ch	20	12)

UNITED STATES DEPARTMENT OF THE INTERIOR

OMB No. 1004-0137	~	7
Expires October 31, 2014	ı	. 1

5.	Lease	Serial	No.	
A 15.4	0004			

BUREAU OF LAND MANA	INIVI ODO I	<u>- FR 26 /</u>				
APPLICATION FOR PERMIT TO I	DRILL OR	REFNTER		6. If Indian, Allotec or T		
				1V/A	مرة وير. ^{لسنة} ويسيند الاست.	(Judica
la. Type of work:	ER .			7 If Unit of CA Agreemen	nt, Name and No.	ונוב נוור ב <u>רר</u>
id. Type of work.				N/A		
и ж. сми Почми Почми Почк	[7]			8. Lease Name and Well		
tb. Type of Well: ☐ Oil Well ✓ Gas Well ☐ Other	▼ Sit	ngle Zone Multip	le Zone	Lybrook O30-2307 03	H 	
2. Name of Operator Encana Oil & Gas (USA) Inc.				9. API Well No.	2126	07
3a. Address 370 17th Street, Suite 1700 Denver, CO	3b. Phone No. (720) 876-5	(include area code)		10. Field and Pool, or Explo	oratory	
80202		Basin Mancos/ Alamite	o-Gallup			
4. Location of Well (Report location clearly and in accordance with any			. ,	11. Sec., T. R. M. or Blk.ar	nd Survey or Area	
At surface 393' FSL and 1342' FEL in Section 30, T23N,	R7W <	SWSE .		SHL: Section 30, T23f	N, R7W NMPM	1
At proposed prod. zon 330' FSL 970' FEL in Section 31, T	23N, R7W	SESE		BHL Sec 31,		RNW
14. Distance in miles and direction from nearest town or post oflice*				12. County or Parish	13. State	
+/- 46.8 miles south of intersection of US Hwy 550 and US				Sandoval	NM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of acres in lease NM 6681 - 642.56 acres 17. Spacing 160 acre		ng Unit dedicated to this 1911 es	. Cons. Div	/ DIST. 3	
	19. Proposed Depth 20. BLM/I		BIA Bond No. on file APR 21 2015			
18. Distance from proposed location* Lybrook O30-2307 02H to nearest well, drilling, completed, applied for, on this lease, ft.	5114' TVD/10346' MD COB-00		00235			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*		23. Estimated duration	<u> </u>		
7028' GL, KB 7044'	11/05/2015			20 days		
	24. Attac	hments				
The following, completed in accordance with the requirements of Onshore	e Oil and Gas	Order No.1, must be at	tached to th	is form:		
Well plat certified by a registered surveyor. A Drilling Plan.		4. Bond to cover the ltem 20 above).	he operatio	ns unless covered by an exis	ting bond on file	(see
3. A Surface Use Plan (if the location is on National Forest System I	Lands, the	5. Operator certific	ation			
SUPO must be filed with the appropriate Forest Service Office).		Such other site specific information and/or plans as may be required by the BLM.			he 	
25. Signature	Name	(Printed Typed)		Date	e	
Sha In	Shaw	n Turk		02	2/25/2015	
Title Regulatory Analyst					,	
Approved by (Signature)	Name	(Printed Typed)		Dat	te 41/7/	15
Title AFM	Office	FFO			// /-	
Application approval does not warrant or certify that the applicant holds	legal or equi	table title to those righ	ts in the sub	ject lease which would entitl	e the applicant to	
conduct operations thereon. Conditions of approval, if any, are attached.				:		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

AContinued: Onepage 121 JUECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS AUTHORIZATION REQUIRED.
ON FEDERAL AND INDIAN LANDS
NMOCDAY

*(Instructions on page 2)
This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 514 3ppeal pursuant to 40 CFN 3165.4

District I 1625 N. French Dr., Hobbs, NM 88240 Phone (575) 393-6161 Fax: (575) 393-0720

811 S. First St., Artesia, NM 88210 Phone (575) 748-1283 Fax: (575) 748-9720 District III

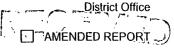
1000 Rio Brazos Road, Aztec, NM 87410 Phone (505) 334-6178 Fax: (505) 334-6170 District IV

1220 S St. Francis Dr., Santa Fe, NM 87505 Phone (505) 476-3460 Fax: (505) 476-3462 State of New Mexico

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

> 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate



FEB 26 2013

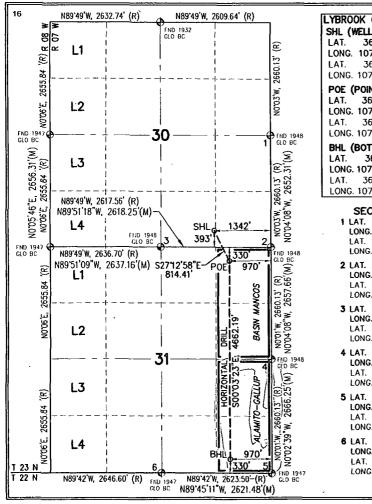
WELL LOCATION AND ACREAGE DEDICATION PLAT

30-043-2	Pool Code 97232/1039	BASIN MANCOS / ALAMITO	- GALLUP
3 Property Code	5 J LYBRO	⁶ Well Number O3H	
⁷ OGRID No. 282327		Operator Name L & GAS (USA) INC.	⁹ Elevation 7028

¹⁰ Surface Location

					Quilado				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
0	30	23N	7W		393	SOUTH	1342	EAST	SANDOVAL
			11 Bc	ttom Hol	e Location If	Different From S	Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
Р	31	23N	7W		330	SOUTH	970	EAST	SANDOVAL
² Dedicated Acre	es _ /-	PR	OJECT ARE	A		14 Consolidation Code	¹⁵ Order No.	· · · · · · · · · · · · · · · · · · ·	L
160 ACRES	E/2	NE/4 SEC	31 BASIN	MANCOS/			Ì		

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division,



E/2 SE/4 SEC 31/ALAMITO-GALLUP

LYBROOK 030-2307 03H WELL SHL (WELL FLAG)

36.191683'N (NAD83) LONG. 107.611076'W (NAD83) 36.191669'N (NAD27 LONG. 107.610468'W (NAD27)

POE (POINT OF ENTRY)

36.189694'N (NAD83) LONG. 107.609815 W (NAD83) 36.189680'N (NAD27) LONG. 107.609206 W (NAD27)

BHL (BOTTOM HOLE LOCATION) 36.176891N (NAD83) LONG. 107.609802'W (NAD83) 36.176877'N (NAD27 LONG. 107.609193'W (NAD27)

SECTION CORNERS

36.197876 N (NAD83) LONG. 107.606539 W (NAD83) LAT. 36.197862 N (NAD27) LONG. 107.605931 W (NAD27)

36.190593 N (NAD83) LONG. 107.606530 W (NAD83) 36.190579 N (NAD27 LONG. 107. 605922 'W (NAD27)

36.190612 N (NAD83) LONG. 107.615400 'W (NAD83) 36.190598 N (NAD27) LONG. 107.614791'W (NAD27)

36.183295 'N (NAD83) LONG. 107.606521 W (NAD83) 36.183281 'N (NAD27 LONG. 107.605913 W (NAD27

36.175973 'N (NAD83) LONG. 107.606516 W (NAD83) 36.175959 'N (NAD27) LONG. 107.605907 W (NAD27)

6 LAT. 36.176005 N (NAD83) LONG. 107.615395 W (NAD83) LAT. 36.175991 N (NAD27) LONG. 107.614786 W (NAD27) **OPERATOR CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature

Shawn Turk

Printed Name

shawn.turk@encana.com

E-mail Address

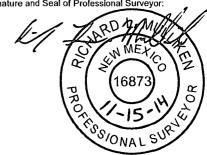
18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

October 10, 2014

Date of Survey

Signature and Seal of Professional Surveyor



RICHARD L. MULLIKEN

Certificate Number

Sheet A

16873

SHL: 393' FSL, 1342' FEL Sec 30 23N 07W BHL: 330' FSL, 970' FEL Sec 31 23N 07W

Sandoval, New Mexico

Encana Oil & Gas (USA) Inc. Drilling Plan

1. ESTIMATED TOPS OF GEOLOGICAL MARKERS (TVD)

The estimated tops of important geologic markers are as follows:

Formation	Depth (TVD) units = feet
San Jose Fn.	n/a
Nacimiento Fn.	surface
Ojo Alamo Ss.	993
Kirtland Shale	1,188
Fruitland Coal	1,454
Pictured Cliffs Ss.	1,578
Lewis Shale	1,694
Cliffhouse Ss.	2,347
Menefee Fn.	3,137
Point Lookout Ss.	3,962
Mancos Shale	4,144
Mancos Silt	4,674
Gallup Fn.	4,932
Base Gallup	5,273

The referenced surface elevation is 7028', KB 7044'

2. ESTIMATED DEPTH OF POTENTIAL WATER, OIL, GAS,

& OTHER MINERAL BEARING FORMATIONS

Substance	Formation	Depth (TVD) units = feet
Water/Gas	Fruitland Coal	1,454
Oil/Gas	Pictured Cliffs Ss.	1,578
Oil/Gas	Cliffhouse Ss.	2,347
Gas	Menefee Fn.	3,137
Oil/Gas	Point Lookout Ss.	3,962
Oil/Gas	Mancos Shale	4,144
Oil/Gas	Mancos Silt	4,674
Oil/Gas	Gallup Fn.	4,932

All shows of fresh water and minerals will be reported and protected.

SHL: 393' FSL, 1342' FEL Sec 30 23N 07W BHL: 330' FSL, 970' FEL Sec 31 23N 07W

Sandoval, New Mexico

3. PRESSURE CONTROL

- a) Pressure contol equipment and configuration will be designed to meet 2M standards.
- b) Working pressure on rams and BOPE will be 3,000 psi.
- c) Function test and visual inspection of the BOP will be conducted daily and noted in the IADC Daily Drilling Report.
- d) The Annular BOP will be pressure tested to a minimum of 50 percent of its rated working pressure.
- e) Blind and Pipe Rams/BOP will be tested against a test plug to 100 percent of rated working pressure.
- f) Pressure tests are required before drilling out from under all casing strings set and cemented in place.
- g) BOP controls must be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned.
- h) BOP testing procedures and testing frequency will conform to Onshore Order No. 2.
- i) BOP remote controls shall be located on the rig floor at a location readily accessible to the driller. Master controls shall be on the ground at the accumulator and shall have the capability to function all preventers.
- j) The kill line shall be 2-inch minimum and contain two kill line valves, one of which shall be a check valve.
- k) The choke line shall be a 2-inch minimum and contain two choke line valves (2-inch minimum).
- I) The choke and manifold shall contain two adjustable chokes.
- m) Hand wheels shall be installed on all ram preventers.
- n) Safety valves and wrenches (with subs for drill string connections) shall be available on the rig floor at all times.
- o) Inside BOP or float sub shall also be available on the rig floor at all times.

Proposed BOP and choke manifold arrangements are attached.

4. CASING & CEMENTING PROGRAM

The proposed casing and cementing program has been designed to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use. The casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the maximum pressure to which it will be exposed during normal drilling operations. All indications of useable water shall be reported.

a) The proposed casing design is as follows:

Casing	Depth (MD)	Hole Size	Csg Size	Weight	Grade
Conductor	0'-60'	26"	16"	42.09#	
Surface	0'-500'	12 1/4"	9 5/8"	36#	J55, STC New
Intermediate	0'-5182'	8 3/4"	7"	26#	J55, LTC New
Production Liner	5082'-10346'	6 1/8"	4 1/2"	11.6#	B80*, LTC New

Casing String Casing Strength Properties						Minimum	Design	Factors	
Size	Weight	Grade	Connectio	Collapse	Burst (psi)	Tensile (1000lbs)	Collapse	Burst	Tensio
	(ppf)		n	(psi)			1		n
9 5/8"	36	J55	STC	2020	3520	394	1.125	1.1	1.5
7"	26	J55	LTC	4320	4980	. 367	1.125	1.1	1.5
4.5"	11.6	B80	LTC	6350	7780	201	1.125	1.1	1.5

^{*}B80 pipe specifications are attached

Casing design is subject to revision based on geologic conditions encountered

SHL: 393' FSL, 1342' FEL Sec 30 23N 07W BHL: 330' FSL, 970' FEL Sec 31 23N 07W

Sandoval, New Mexico

All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or 1,500 psi, whichever is greater, but not to exceed 70 percent of the minimum internal yield. If pressure declines more than 10 percent in 30 minutes, corrective action shall be taken.

b) The proposed cementing program is as follows:

Casing	Depth	Cement Volume	Cement Type & Yield	Designed	Centralizers
	(MD)	(sacks)		TOC	
Conductor	0'-60'	100 sks	Type I Neat 16 ppg	Surface	None
Surface	0'-500'	228 sks	Type III Cement + 1% bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake + 0.2% bwoc FL-52A + 58.9% Fresh Water	Surface	1 per joint on bottom 3 joints
Intermediate	0'-5182'	100% open hole excess Stage 1 Lead: 481 sks Stage 1 Tail: 370 sks	Lead: PremLite + 3% CaCl + 0.25lb/sk CelloFlake + 5lb/sk LCM, 12.1ppg 2.13cuft/sk Tail: Type III Cmt + 1% CaCl + 0.25lb/sk Cello Flake 14.5ppg 1.38cuft/sk	Surface	1 every 3 joints through water bearing zones
Production Liner	5082'- 10346'	50% OH excess Stage 1 Blend Total: 298sks	Blend: Premium Lite High Strength FM + 0.7% bwoc R-3 + 3% bwow Potassium Chloride + 0.25lbs/sack Cello Flake + 0.5% bwoc CD-32 + 1.15% bwoc FL- 52A + 60 lbs/sack Calcium Carbonate + 124.4% Fresh Water. Yield 2.63 cuft/sk	Liner Hanger	N/A

Actual volumes will be calculated and determined by conditions onsite. All cement slurries will meet or exceed minimum BLM and New Mexico Oil Conservation Division requirements. Slurries used will be the slurries listed above or equivalent slurries depending on service provider selected. Cement yields may change depending on slurries selected

All waiting on cement times shall be a minimum of 8 hours or adequate to achieve minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

5. WELL PLAN & DIRECTIONAL DRILLING PROGRAM

The proposed horizontal well will have a kick off point of 4232'. Directional plans are attached.

Description	Proposed Depth (TVD/MD)	Formation
Horizontal Lateral TD	5114'/10346'	Gallup

SHL: 393' FSL, 1342' FEL Sec 30 23N 07W BHL: 330' FSL, 970' FEL Sec 31 23N 07W

Sandoval, New Mexico

6. DRILLING FLUIDS PROGRAM

a) Surface through Intermediate Casing Point:

Hole Size (in)	Depth (TVD/MD)	Mud Type	Density (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
30"	0-60'/60'	Fresh Water	8.3-9.2	38-100	4-28
12 1/4"	0'-500'/500'	Fresh Water	8.3-10	60-70	NC
8 3/4"	500'/500'-5041'/5182	Fresh Water LSND	8.3-10	40-50	8-10

b) Intermediate Casing Point to TD:

				Viscosity	
Hole Size (in)	Depth (TVD/MD)	Mud Type	Density (ppg)	(sec/qt)	Fluid Loss (cc)
	5041'/5182'-				
6 1/8"	5114'/10346'	Fresh Water LSND	8.3-10	15-25	<15

- c) There will be sufficient mud on location to control a blowout should one occur. Mud flow and volume will be monitored both visually and with electronic pit volume totalizers. Mud tests shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.
- (d) A closed-loop system will be used to recover drilling fluid and dry cuttings in both phases of the well and on all hole intervals. Above-ground tanks will be utilized to hold cuttings and fluids for rig operations. A frac tank will be on location to store fresh water. Waste will be disposed of properly at an EPA-approved hazardous waste facility. Fresh water cuttings will be disposed of at Basin Disposal, Inc. and/or Industrial Ecosystems, Inc. The location will be lined in accordance with the Surface Use Plan of Operations.

7. TESTING, CORING, & LOGGING

- a) Drill Stem Testing None anticipated.
- b) Coring None anticipated.
- c) Mudd Logging Mud loggers will be on location from kick off point to TD.
- d) Logging See below

Cased Hole:

CBL/CCL/GR/VDL will be run as needed for perforating control

8. ABNORMAL PRESSURES & HYDROGEN SULFIDE

The anticipated bottom hole pressure is +/- 2433 psi based on a 9.0 ppg at 5199' TVD of the horizontal lateral target. No abnormal pressure or temperatures are anticipated.

No hydrogen sulfide gas is anticipated, however, if H₂S is encountered, the guidelines in Onshore Order No. 6 will be followed.

9. ANTICIPATED START DATE AND DURATION OF OPERATIONS

Drilling is estimated to commence on November 5, 2015. It is anticipated that completion operations will begin within 30 days after the well has been drilled depending on fracture treatment schedules with various pumping service companies.

It is anticipated that the drilling of this well will take approximately 20 days.

		L Sec 30 23N 07W		End	ana Na	tural Gas				ENG: Michael Sanch	2-23-15
county: Sand	loval ook O30-2307	03Н		V	VELL SU	MMARY				RIG: Unassigned GLE: 7028 RKBE: 7044	
GWM	OPEN HOLE		DEPTH		···		нс	DLE	CASING	MW	DEVIATION
LWD	LOGGING	FORM	TVD	MD			SI	IZE	SPECS	MUD TYPE	INFORMATION
			60	60'			2	26	16" 42.09# 100sx Type I Neat 16.0ppg cmt	Fresh wtr 8.3-9.2	
Multi-Well pad- take survey every stand and run anti- collision report prior to	None	San Jose Fn.	0				12	1/4	9 5/8" 36ppf J55 STC TOC Surface with 100% OH Excess: 228 sks Type III Cement + 1% bwoc	Fresh wtr 8.3-10	Vertical <1°
spud		Nacimiento Fn. 9 5/8" Csg	surface 500	500.00					Calcium Chloride + 0.25 lbs/sack Cello Flake + 0.2% bwoc FL-52A + 58.9% Fresh Water.		
Survey Every 60'-120', updating	No OH logs	Ojo Alamo Ss. Kirtland Shale Fruitland Coal Pictured Cliffs Ss. Lewis Shale	993 1,188 1,454 1,578					3/4	7" 26ppf J55 LTC TOC @ surface (100% OH excess - 70% Lead 30% Tail)	Fresh Wtr 8.3-10	Vertical <1°
anticollision report after surveys. Stop operations and contact drilling engineer if separation factor approaches		Cliffhouse Ss. Menefee Fn. Point Lookout Ss. Mancos Shale	1,694 2,347 3,137 3,962 4,144					3/4	Stage 1 Total: 851sks Stage 1 Lead: 481 sks Premium Lite FM + 3% CaCl2 + 0.25/sk Cello Flake + 5#/sk LCM-1 + 8% Bentonite + 0.4% FL-52A + 0.4% Sodium Metasilicate. Mixed at 12.1 ppg. Yield 2.13 cuft/sk.		
1.5 Surveys every 30' through the curve	Mud logger onsite	KOP Mancos Silt	4,232 4,674	4,232					Stage 1 Tail: 370 sks Type III Cement + 1% CaCl2 + 0.25#/sk Cello Flake + 0.2% FL-52A. Mixed at 14.6 ppg. Yield 1.38 cuft/sk.		
		Gallup Fn.	4,932		:						
	· 	7" Csg	5,041	5,182'		—'// '	\backslash				Horz Inc/TVD
Surveys every stand to TD unless		Horizontal Target TD	5,199 5,114	10,346		\	_6	1/8	100' overlap at liner top		90.9deg/5199ft TD = 10346.3 MD
directed otherwise by Geologist	No OH Logs	Base Gallup	5,273	10,010					4 1/2" 11.6ppf SB80 LTC	WBM 8.3-10	
MWD									TOC @ hanger (50% OH excess) Stage 1 Total: 298sks		
Gamma Directional									Stage 1 Blend: 298 sks Premium Lite High Strength FM + 0.7% bwoc R-3 + 3% bwow Potassium Chloride + 0.25lbs/sack Cetlo Flake + 0.5% bwoc CD-32 + 1.15% bwoc FL 52A + 60 lbs/sack Catium Carbonate + 124.4% Fresh Water. Yield 2.63 cuft/sk.		

NOTES

- 1) Drill with 26" bit to 60', set 16" 42.09ppf conductor pipe
- 2) Drill surface to 500', R&C 9 5/8" casing
- 3) N/U BOP and surface equipment
- 4) Drill to KOP of 4232', 8 3/4 inch holesize
- 5) Start curve at 10deg/100' build rate
- 6) Drill to csg point of 5182' MD
- 7) R&C 7" csg, circ cmt to surface
- 8) Land at ~90 deg, drill lateral to 10346' run 4 1/2 inch cemented liner

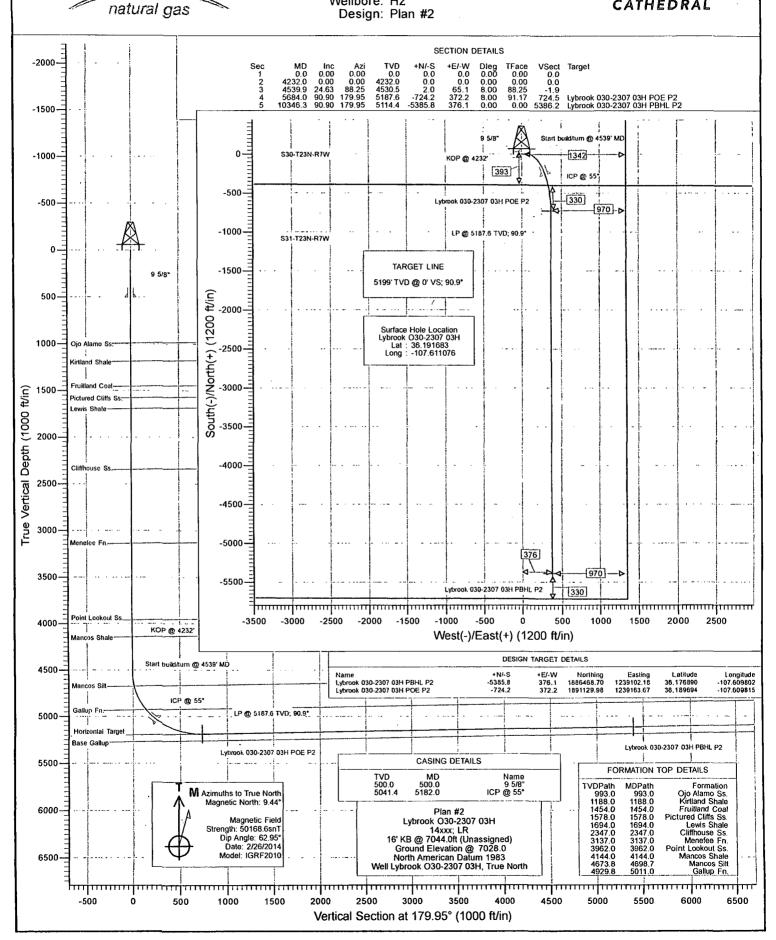


Project: Sandoval County, NM Site: S30-T23N-R7W

Well: Lybrook O30-2307 03H

Wellbore: Hz





Planning Report

Database:

USA EDM 5000 Multi Users DB

Company: Project:

EnCana Oil & Gas (USA) Inc

Site:

Sandoval County, NM S30-T23N-R7W

Well: Wellbore: Lybrook O30-2307 03H Hz

Design:

Plan #2

Local Co-ordinate Reference:

The first of the control of the cont

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well Lybrook O30-2307 03H

16' KB @ 7044.0ft (Unassigned) 16' KB @ 7044.0ft (Unassigned)

Minimum Curvature

Project Sandoval County, NM

Map System:

Map Zone:

US State Plane 1983

Geo Datum:

North American Datum 1983 New Mexico Central Zone

System Datum: -

\$30-T23N-R7W

Site Position:

From:

Lat/Long

Easting:

1,891,883.94 ft 1,238,783.16 ft Latitude:

Longitude:

36,191750

Position Uncertainty:

0.0 ft

Slot Radius:

13.200 in

-107.611140

Grid Convergence:

-0.80 °

Well Lybrook O30-2307 03H

Well Position

+N/-S +E/-W 0.0 ft 0.0 ft

Northing: Easting:

1,891,859.28 ft 1,238,801.71 ft

Longitude:

36.191683 -107.611076

Position Uncertainty

0.0 ft

Wellhead Elevation:

Ground Level:

7;028.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength (nT)
			rumit ara ma a a maga bija a r		فتعتملها بمستا سامينسيك بأراء والماسا
	IGRF2010	2/26/2014	9.44	62.95	50,169

Design Plan #2	the Assessment of the State of	The state of the s	And the latter of the latter of the property of the latter	The state of the second	
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	1
Vertical Section:	epth From (TVD) - (ft)	+N/-S (ft)	+E/-W (ft)	Direction	
The second secon	0.0	0.0		179.95	and the state of the state of

Plan Sections Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn, Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	· · · · · · · · · · · · · · · · · · ·
4,232.0	0.00	0.00	4,232.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,539.9	24.63	88.25	4,530.5	2.0	65.1	8.00	8.00	0.00	88.25	
5,684.0	90.90	179.95	5,187.6	-724.2	372.2	8.00	5.79	8.01	91.17	Lybrook 030-2307 031
10,346.3	90.90	179.95	5,114.4	-5,385.8	376.1	0.00	0.00	0.00 -	0.00	Lybrook 030-2307 031

Planning Report

Database:

A CONTRACTOR OF THE STATE OF TH USA EDM 5000 Multi Users DB

Company: Project: EnCana Oil & Gas (USA) Inc

Site: Well: Sandoval County, NM S30-T23N-R7W

Wellbore: Design:

Lybrook O30-2307 03H Hz

Plan #2

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well Lybrook O30-2307 03H

16' KB @ 7044.0ft (Unassigned) 16' KB @ 7044.0ft (Unassigned)

Neasured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Comments / Formations	and the second
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	- The second sec	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	•	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00		
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00		
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00		
									0.5/0"	
500.0 600.0	0.00 0.00	0.00 0.00	500.0 600.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00	9 5/8"	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00		
800.0	0.00	0.00	800.0	0.0		0.0				
900.0	0.00	0.00	900.0	0.0	0.0 0.0	0.0	0.00 0.00	0.00 0.00		
993.0	0.00	0.00	993.0	0.0	0.0	0.0	0.00		Ojo Alamo Ss.	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00		
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00		
1,188.0	0.00	0.00	1,188.0	0.0	0.0	0.0	0.00	0.00	Kirtland Shale	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00		
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00		
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00		
1,454.0	0.00	0.00	1,454.0	0.0	0.0	0.0	0.00		Fruitland Coal	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00		
1,578.0	0.00	0.00	1,578.0	0.0	0.0	0.0	0.00		Pictured Cliffs Ss.	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00		
1,694.0	0.00	0.00	1,694.0	0.0	0.0	0.0	0.00		Lewis Shale	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	10.00	0.00	Lewis Silaic	
1,800.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00		
1,800.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00		
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00		•
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00		
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00		
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00		
2,347.0	0.00	0.00	2,347.0	0.0	0.0	0.0	0.00	0.00	. Cliffhouse Ss.	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00		
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00		
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00		
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00		
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00		
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00		
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00		
3,100.0	0.00	0.00	3,100.0	. 0.0	0.0	0.0	0.00	0.00		
3,137.0	0.00	0.00	3,137.0	0.0	0.0	0.0	0.00		Menefee Fn.	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00		
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00 0.00		
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00			
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00		
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00		
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00		
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00		
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00		
3,962.0	0.00	0.00	3,962.0	0.0	0.0	0.0	0.00	0.00	Point Lookout Ss.	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00		
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	•	
	0.00	0.00	4,144.0	0.0	0.0	0.0	0.00	0.00	Mancos Shale	
4,144.0 4,200.0	0.00 0.00		4,144.0	0.0	0.0	0.0	0.00	0.00		

Planning Report

Database:

Committee to the property of the second of t USA EDM 5000 Multi Users DB

Company: Project:

EnCana Oil & Gas (USA) Inc

Site: Well: Sandoval County, NM S30-T23N-R7W Lybrook O30-2307 03H

Wellbore: Plan #2 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well Lybrook O30-2307 03H

16' KB @ 7044.0ft (Unassigned) 16' KB @ 7044.0ft (Unassigned)

Measured			Vertical			Vertical	Dogleg	Build .	Comments /
Depth	Inclination	Azimûth	Depth	+N/-S	+E/-W	Section 🕔	Rate	Rate	Formations
(ft)	· (°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	
4,232.0	0.00	0.00	4,232.0	0.0	0.0	0.0	0.00		KOP @ 4232'
4,300.0	5.44	88.25	4,299.9	0.1	3.2	-0.1	8.00	8.00	
4,400.0	13.44	88.25	4,398.5	0.6	19.6	-0.6	8.00	8.00	
4,500.0	21.44	88.25	4,493.8	1.5	49.5	-1.5	8.00	8.00	
4,539.9	24.63	88.25	4,530.5	2.0	65.1	-1.9	8.00	8.00	Start build/turn @ 4539' MD
4,600.0	24.97	99.71	4,585.1	0.2	90.2	-0.2	8.00	0.56	
4,699.1	27.31	116.97	4,674.2	-13.6	131.1	13.7	8.00	2.36	Mancos Silt
4,700.0	27.34	117.11	4,675.0	-13.8	131.5	13.9	8.00	3.36	
4,800.0	31.49	131.10	4,762.2	-41.5	171.7	41.6	8.00	4.15	
4,900.0	36,81	141.77	4,845.0	-82.3	210.0	82.4	8.00	5.32	
5,000.0	42.87	149.95	4,921.8	-135.3	245.6	135.5	8.00	6.06	
5,017.2	43.96	151.17	4,934.3	-145.6	251.4	145.8	8.00	6.36	
5,100.0	49.39	156.40	4,991.1	-199.6	277.9	199.9	8.00	6.55	·
5,182.0	54.96	160.79	5,041.4	-259.9	301.4	260.2	8.00	6 79	ICP @ 55°
5,200.0	56.20	161.67	5,051.5	-274.0	306.2	274.3	8.00	6.90	-
5,300.0	63.20	166.15	5,102.0	-356.9	330.0	357.2	8.00	7.00	
5,400.0	70.33	170.11	5,141.4	-446.8	348.8	447.1	8.00	7.00	
5,500.0	70.33 77.54	173.73	5,141.4 5,169.1	-440.6 -541.8	362.2	542.1	8.00	7.13	
5,600.0	84.79		5,184.4						
		177.14		-640.2	370.0	640.6	8.00	7.25	
5,684.0	90.90	179.95	5,187.6	-724.2	372.2	724.5	8.00		LP @ 5187.6 TVD; 90.9° - Lybrook 030-230
5,685.9	90.90	179.95	5,187.6	-726.0	372.2	726.4	0.00		Lybrook O30-2307 03H POE
5,700.0	90.90	179.95	5,187.3	-740.1	372.2	740.4	0.00	0.00	
5,800.0	90.90	179.95	5,185.8	-840.1	372.3	840.4	0.00	0.00	
5,900.0	90.90	179.95	5,184.2	-940.1	372.3	940.4	0.00	0.00	
6,000.0	90.90	179.95	5,182.6	-1,040.1	372.4	1,040.4	0.00	0.00	
6,100.0	90.90	179.95	5,181.1	-1,140.1	372.5	1,140.4	0.00	0.00	
6,200.0	90.90	179.95	5,179.5	-1,240.1	372.6	1,240.4	0.00	0.00	
6,300.0	90.90	179.95	5,177.9	-1,340.0	372.7	1,340.4	0.00	0.00	
6,400.0	90.90	179.95	5,176.4	-1,440.0	372.8	1,440.4	0.00	0.00	
6,500.0	90.90	179.95	5,174.8	-1,540.0	372.8	1,540.3	0.00	0.00	
6,600.0	90.90	179.95	5,173.2	-1,640.0	372.9	1,640.3	0.00	0.00	
6,700.0	90.90	179.95	5,171.6	-1,740.0	373.0	1,740.3	0.00	0.00	
6,800.0	. 90.90	179.95	5,170.1	-1,840.0	373.1	1,840.3	0.00	0.00	
6,900.0	90.90	179.95	5,168.5	-1,940.0	373.2	1,940.3	0.00	0.00	
7,000.0	90.90	179.95	5,166.9	-2,040.0	373.3	2,040.3	0.00	0.00	
7,100.0	90.90	179.95	5,165.4	-2,139.9	373.3	2,140.3	0.00	0.00	
7,200.0	90.90	179.95	5,163.8	-2,239.9	373.4	2,240.3	0.00	0.00	
7,300.0	90.90	179.95	5,162.2	-2,339.9	373,5	2,340.2	0.00	0.00	
7,400.0	90.90	179.95	5,160.7	-2,439.9	373.6	2.440.2	0.00	0.00	
7,500.0	90.90	179.95	5,159.1	-2,539.9	373.7	2,540.2	0.00	0.00	
7,600.0	90.90	179.95	5,157.5	-2,639.9	373.8	2,640.2	0.00	0.00	
7,700.0	90.90	179.95	5,155.9	-2,739.9	373.8	2,740.2	0.00	0.00	
7,800.0	90.90	179.95	5,154.4	-2,839.9	373.9	2,840.2	0.00	0.00	
7,900.0	90.90	179.95	5,152.8	-2,939.8	374.0	2,940.2	0.00	0.00	
8,000.0	90.90	179.95	5,151.2	-3,039.8	374.1	3,040.2	0.00	0.00	
8,100.0	90.90	179.95	5,149.7	-3,139.8	374.2	3,140.1	0.00	0.00	
8,200.0 8,300.0	90.90 90.90	179.95 179.95	5,148.1 5.146.5	-3,239.8 -3,339.8	374.3 374.4	3,240.1 3,340.1	0.00 0.00	0.00 0.00	
-			5,146.5						
8,400.0	90.90	179.95	5,144.9	-3,439.8	374.4	3,440.1	0.00	0.00	
8,500.0	90.90	179.95	5,143.4	-3,539,8	374.5	3,540.1	0.00	0.00	
8,600.0	90.90	179.95	5,141.8	-3,639.8	374.6	3,640.1	0.00	0.00	
8,700.0	90.90	179.95	5,140.2	-3,739.7	374.7	3,740.1	0.00	0.00	

Planning Report

Database: Company:

international and the control of the USA EDM 5000 Multi Users DB

EnCana Oil & Gas (USA) Inc

Project: Site:

Sandoval County, NM S30-T23N-R7W

Well: Lybrook O30-2307 03H Wellbore: Ηz Design: Plan #2

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well Lybrook O30-2307 03H

16' KB @ 7044.0ft (Unassigned) 16' KB @ 7044.0ft (Unassigned)

True

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,800.0	90.90	179.95	5,138.7	-3,839.7	374.8	3,840.1	0.00	0.00	
8,900.0	90.90	179.95	5,137.1	-3,939.7	374.9	3,940.0	0.00	0.00	
9,000.0	90.90	179.95	5,135.5	-4,039.7	374.9	4,040.0	0.00	0.00	
9,100.0	90.90	179.95	5,134.0	-4,139.7	375.0	4,140.0	0.00	0.00	
9,200.0	90.90	179.95	5,132.4	-4,239.7	375.1	4,240.0	0.00	0.00	.^
9,300.0	90.90	179.95	5,130.8	-4,339.7	375.2	4,340.0	0.00	0.00	
9,400.0	90.90	179.95	5,129.2	-4,439.7	375.3	4,440.0	0.00	0.00	
9,500.0	90.90	179.95	5,127.7	-4,539.6	375.4	4,540.0	0.00	0.00	
9,600.0	90.90	179.95	5,126.1	-4,639.6	375.4	4,640.0	0.00	0.00	
9,700.0	90.90	179.95	5,124.5	-4,739.6	375.5	4,739.9	0.00	0.00	
9,800.0	90.90	179.95	5,123.0	-4,839.6	375.6	4,839.9	0.00	0.00	•
9,900.0	90.90	179.95	5,121.4	-4,939.6	375.7	4,939.9	0.00	0.00	
10,000.0	90.90	179.95	5,119.8	-5,039.6	375.8	5,039.9	0.00	0.00	
10,100.0	90.90	179.95	5,118.2	-5,139.6	375.9	5,139.9	0.00	0.00	
10,200.0	90.90	179.95	5,116.7	-5,239.6	375.9	5,239.9	0.00	0.00	
10,300.0	90.90	179.95	5,115.1	-5,339.5	376.0	5,339.9	0.00	0.00	
10,346.3	90.90	179.95	5,114.4	-5,385.8	376.1	5,386.2	0.00	0.00	TD at 10346.3 - Lybrook 030-2307 03H PB

Target Name - hit/miss target. Di	p Angle	Dip Dir.	TVD	+N/-\$	+E/-W	Northing	Easting		
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft).	(ft)	Latitude	Longitude
Lybrook 030-2307 03H F - plan hits target center - Point	0.00	0.00	5,114.4	-5,385.8	376.1	1,886,468.70	1,239,102.18	36.176890	-107.609802
Lybrook O30-2307 03H l - plan misses target cen - Point	0.00 iter by 568.	0.00 1ft at 5685.9	5,189.2 ft MD (5187	-725.6 .6 TVD, -726.	940.3 0 N, 372.2 E)	1,891,120.57	1,239,731.71	36.189690	-107,607890
Lybrook 030-2307 03H F - plan hits target center - Point	0.00	0.00	5,187.6	-724.2	372.2	1,891,129.98	1,239,163.67	36.189694	-107.609815
Lybrook O30-2307 03H I - plan misses target cer - Point	0.00 nter by 570	0.00 3ft at 10346.	5,116.0 3ft MD (511	-5,385.8 4.4 TVD, -538	946.4 35.8 N, 376.1 E)	1,886,460.71	1,239,672.40	36.176890	-107.607870

Casing Points	المستان والمراكب والمراكب	The second secon	and the same of th	
	ertical :		Casing Diameter	Hole Diameter
	(ft).	Name	(in)	(in)
500.0	500.0 9 5/8"		0.000	0.000
5,182.0	5,041.4 ICP @ 55°		0.000	0.000

Planning Report

Database:

USA EDM 5000 Multi Users DB

Company: Project: EnCana Oil & Gas (USA) Inc

Site: Well: Sandoval County, NM S30-T23N-R7W Lybrook O30-2307 03H

Wellbore: Hz Design: Plan #2 Local Co-ordinate Reference:

TVD Reference:

MD Reference:

Survey Calculation Method:

Well Lybrook O30-2307 03H

16' KB @ 7044.0ft (Unassigned) 16' KB @ 7044.0ft (Unassigned)

True

Formations	a na aran mayang da sa				
Measured Depth (ft)	Vertical Depth (ft)	Name Lithology	Dip (°)	Dip Direction (°)	
993.0	993.0	Ojo Alamo Ss.	0.90	-179.95	
1,188.0	1,188.0	Kirtland Shale	0.90	-179.95	
1,454.0	1,454.0	Fruitland Coal	0.90	-179.95	
1,578.0	1,578.0	Pictured Cliffs Ss.	0.90	-179.95	
1,694.0	1,694.0	Lewis Shale	0.90	-179.95	
2,347.0	2,347.0	Cliffhouse Ss.	0.90	-179.95	
3,137.0	3,137.0	Menefee Fn.	0.90	-179.95	
3,962.0	3,962.0	Point Lookout Ss.	0.90	-179.95	
4,144.0	4,144.0	Mancos Shate	0.90	-179.95	
4,699.1	4,674.0	Mancos Silt	0.90	-179.95	
5,017.2	4,932.0	Gallup Fn.	0.90	-179.95	

Plan Annotations		AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN THE PERSON NAMED		
Measured Depth (ft)	Vertical Depth (ft)	Local Coordi +N/-S (ft)	nates +E/-W (ft)	Comment
4,232.0	4,232.0	0.0	0.0	KOP @ 4232'
4,539.9	4,530.5	2.0	65.1	Start build/turn @ 4539' MD
5,684.0	5,187.6	-724.2	372.2	LP @ 5187.6 TVD; 90.9°
10,346.3	5,114.4	-5,385.8	376.1	TD at 10346.3

SHL: SWSE Section 30, T24N, R8W

393 FSL and 1342 FEL

BHL: SESE Section 31, T24N, R8W

330 FSL and 970 FEL

Sandovał, New Mexico Lease Number: NM 6681

If the location becomes prone to wind or water erosion, Encana will take appropriate measures to prevent topsoil loss from wind. Such measures may include using tackifiers or water to wet the topsoil stockpile so that a crust is created across the exposed soil to prevent soil loss.

All construction materials for the well pad will consist of native borrow and subsoil
accumulated during well pad construction. If additional fill or surfacing material is required, it
will be obtained from existing permitted or private sources and will be hauled in by trucks over
existing access roads.

The maximum cut will be approximately 4 feet on the north corner (Corner 3) and the maximum fill will be approximately 4 feet on the south corner (Corner 6).

- 4. As determined during the onsite on January 7, 2014, the following best management practices will be implemented:
 - a. A water diversion is required from Corner 3 to Corner 2.
 - b. Silt traps will be installed as needed upon interim reclamation.
 - The material borrow source for this location will be the proposed Encana Lybrook G30-2307.
 - d. An archeological site was identified along the access road. A 200' foot fence will be required during construction.
 - e. Burrowing owl stipulations will be applicable.
- 5. Construction equipment may include chain saws, a brush hog, scraper, maintainer, excavator, and dozer. Construction for the access road and well pad will take approximately 2 weeks.

C. Pipeline

See the Plan of Development submitted with the final Standard SF-299 Application for authorization to construct, operate, maintain and terminate a 777.6 foot, up to 6-inch outside diameter, buried steel well connect pipeline that was submitted to the BLM concurrently with the APD.

7. METHODS FOR HANDLING WASTE

A. Cuttings

- A closed-loop system will be used. Cuttings will be moved through a shaker system on the drill rig that separates drilling fluids from the cuttings. Cuttings will be stored onsite in aboveground storage tanks. Cuttings will be pulled from the storage tanks, mixed with saw dust or similar absorbent material, and disposed of at the Envirotech, Inc. and/or Industrial Ecosystem, Inc. waste disposal facilities.
- 2. The closed-loop system storage tanks will be adequately sized to ensure confinement of all fluids and will provide sufficient freeboard to prevent uncontrolled releases.
- 3. A 20-mil liner will be installed under tanks, pumps, ancillary facilities, and truck loading/unloading areas associated with the closed-loop system.

B. Drilling Fluids

1. A closed-loop system will be used. Drilling fluids will be stored onsite in above-ground storage tanks. Upon termination of drilling operations, the drilling fluids will be recycled and transferred to other permitted closed-loop systems or returned to the vendor for reuse, as

ENCANA OIL & GAS (USA) INC.

LYBROOK 030-2307 #03H
393' FSL & 1342' FEL
LOCATED IN THE SW/4 SE/4 OF SECTION 30
T23N, R07W, N.M.P.M.
SANDOVAL COUNTY, NEW MEXICO
511 +/- OF NEW ACCESS ACROSS BLM LANDS

DIRECTIONS

- 1) FROM THE INTERSECTION OF HWY 550 & US HWY 64 IN BLOOMFIELD, NEW MEXICO, TRAVEL SOUTH ON HWY 550 FOR 39.0 MILES TO MILE POST 112.7.
- 2) GO RIGHT (SOUTHERLY) ON CR 7900 FOR 5.2 MILES.
- 3) TURN LEFT (NORTHEASTERLY) EXITING CR 7900 FOR 2.8 MILES TO A THREE WAY INTERSECTION
- 4) GO LEFT (NORTHEASTERLY) ALONG EXISTING ROAD FOR 2.0 MILES TO THE ENCANA LYBROOK O30-2307 PROPOSED ACCESS.
- 5) CONTINUE 511' ALONG THE STAKED ROAD TO STAKED ENCANA LYBROOK O30-2307 LOCATION.
- 6) WELL FLAG LOCATED AT: LATITUDE: 36.191683° N, LONGITUDE: 107.611076° W (NAD 83)

