

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary-Designate

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

David R. Catanach Division Director
Oil Conservation Division



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.

Operator Signature Date: 2-25-15

Well information;

Operator Encana, Well Name and Number Lybrook 030 2307 #4H

API# 30-043-21268, Section 30, Township 23 (N/S), Range 7 E/W

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 NSL, NSP, DHC
- ☐ Spacing rule violation. Operator must follow up with change of status notification on other well 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.

Charlie Herr
NMOCD Approved by Signature

5-11-2015
Date

OIL CONS. DIV DIST. 3

MAY 06 2015

Form 3160-3
(March 2012)FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NM 6681	
1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name N/A	
2. Name of Operator Encana Oil & Gas (USA) Inc.		7. If Unit or CA Agreement, Name and No. N/A	
3a. Address 370 17th Street, Suite 1700 Denver, CO 80202		8. Lease Name and Well No. Lybrook O30-2307 04H	
3b. Phone No. (include area code) (720) 876-5994		9. API Well No. 30-043-21268	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 411' FSL and 1318' FEL in Section 30, T23N, R7W SUSE At proposed prod. zone 330' FSL and 350' FEL in Section 31, T23N, R7W SESE		10. Field and Pool, or Exploratory Basin Mancos/ Alamoito-Gallup	
14. Distance in miles and direction from nearest town or post office* +/- 46.8 miles south of intersection of US Hwy 550 and US Hwy 64 in Bloomfield, NM		11. Sec., T. R. M. or Blk. and Survey or Area SHL: Section 30, T23N, R7W NMPM BHL Sec 31, T23N R7W	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) BHL is 330' from south lease line of sec 31, T23N, R7W		12. County or Parish Sandoval	
16. No. of acres in lease NM 6681 - 642.56 acres		13. State NM	
17. Spacing Unit dedicated to this well 160 acres		18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Lybrook O30-2307 03H SHL is +/- 30' SW	
19. Proposed Depth 4919' TVD/10328' MD		20. BLM/BIA Bond No. on file COB-000235	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 7028' GL, KB 7044'		22. Approximate date work will start* 11/05/2015	
23. Estimated duration 20 days			

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature 	Name (Printed Typed) Shawn Turk	Date 02/25/2015
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Title
Regulatory Analyst

Approved by (Signature) 	Name (Printed Typed) ANTHONY A. GALLEGOS	Date 4/30/2015
Title AFM - MINERALS	Office FFO	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle 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 any statement to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

*(Instructions on page 2)
DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

(Continued on page 2)

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

NMCCD

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

RECEIVED AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION REPORT

¹ API Number 30-043-21268	² Pool Code 97232/1039	³ Pool Name BASIN MANCOS / ALAMITO-GALLUP
⁴ Property Code 313257	⁵ Property Name LYBROOK 030-2307	⁶ Well Number 04H
⁷ OGRID No. 282327	⁸ Operator Name ENCANA OIL & GAS (USA) INC.	⁹ Elevation 7028'

¹⁰ Surface Location

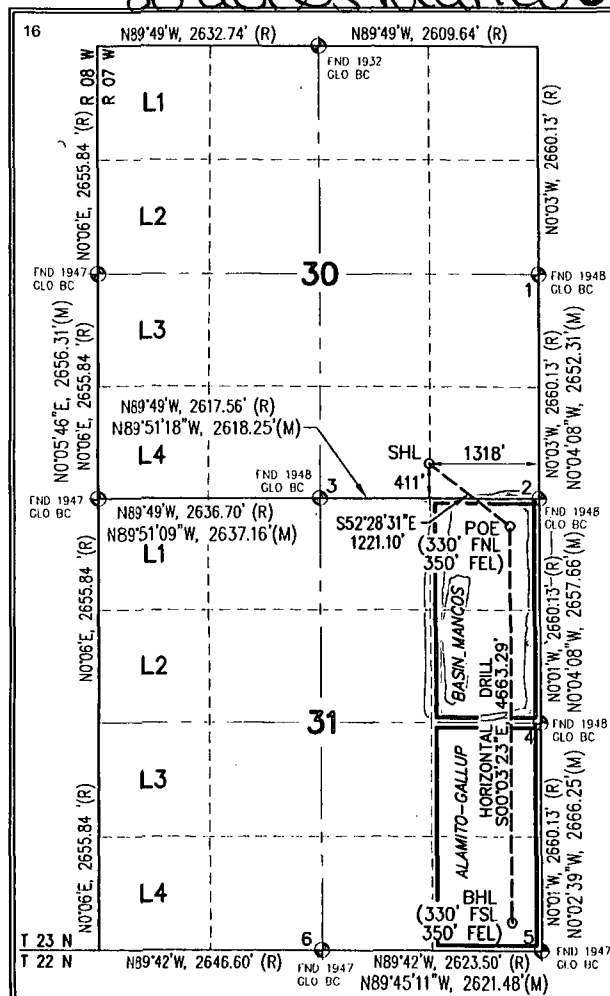
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
0	30	23N	7W		411	SOUTH	1318	EAST	SANDOVAL

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
P	31	23N	7W		330	SOUTH	350	EAST	SANDOVAL

¹² Dedicated Acres 160 ACRES	PROJECT AREA E/2 NE/4 SEC 31 BASIN MANCOS/ E/2 SE/4 SEC 31 ALAMITO-GALLUP	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.



LYBROOK 030-2307 04H WELL
SHL (WELL FLAG)
LAT. 36.191732°N (NAD83)
LONG. 107.610995°W (NAD83)
LAT. 36.191718°N (NAD27)
LONG. 107.610386°W (NAD27)
POE (POINT OF ENTRY)
LAT. 36.189689°N (NAD83)
LONG. 107.607715°W (NAD83)
LAT. 36.189675°N (NAD27)
LONG. 107.607106°W (NAD27)
BHL (BOTTOM HOLE LOCATION)
LAT. 36.176884°N (NAD83)
LONG. 107.607702°W (NAD83)
LAT. 36.176870°N (NAD27)
LONG. 107.607094°W (NAD27)

SECTION CORNERS

- LAT. 36.197876°N (NAD83)
LONG. 107.606539°W (NAD83)
LAT. 36.197862°N (NAD27)
LONG. 107.605931°W (NAD27)
- LAT. 36.190593°N (NAD83)
LONG. 107.606530°W (NAD83)
LAT. 36.190579°N (NAD27)
LONG. 107.605922°W (NAD27)
- LAT. 36.190612°N (NAD83)
LONG. 107.615400°W (NAD83)
LAT. 36.190598°N (NAD27)
LONG. 107.614791°W (NAD27)
- LAT. 36.183295°N (NAD83)
LONG. 107.606521°W (NAD83)
LAT. 36.183281°N (NAD27)
LONG. 107.605913°W (NAD27)
- LAT. 36.175973°N (NAD83)
LONG. 107.606516°W (NAD83)
LAT. 36.175959°N (NAD27)
LONG. 107.605907°W (NAD27)
- LAT. 36.176005°N (NAD83)
LONG. 107.615395°W (NAD83)
LAT. 36.175991°N (NAD27)
LONG. 107.614786°W (NAD27)

¹⁷ 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
Date: 2/23/15

Printed Name

shawn.turk@encana.com

E-mail Address

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plot 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
NEW MEXICO
16873
11-15-14
PROFESSIONAL SURVEYOR

RICHARD L. MULLIKEN

Certificate Number

16873

Lybrook O30-2307 04H
 SHL: 411' FSL, 1318' FEL Sec 30 23N 07W
 BHL: 330' FSL, 350' 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	4,680
Gallup Fn.	4,938
Base Gallup	5,279

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	4,680
Oil/Gas	Gallup Fn.	4,938

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

Lybrook O30-2307 04H
 SHL: 411' FSL, 1318' FEL Sec 30 23N 07W
 BHL: 330' FSL, 350' FEL Sec 31 23N 07W
 Sandoval, New Mexico

3. PRESSURE CONTROL

- a) Pressure control 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).
- l) 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'-5097'	8 3/4"	7"	26#	J55, LTC New
Production Liner	4997'-10328'	6 1/8"	4 1/2"	11.6#	B80*, LTC New

Casing String				Casing Strength Properties			Minimum Design Factors		
Size	Weight (ppf)	Grade	Connection	Collapse (psi)	Burst (psi)	Tensile (1000lbs)	Collapse	Burst	Tension
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

Lybrook O30-2307 04H
SHL: 411' FSL, 1318' FEL Sec 30 23N 07W
BHL: 330' FSL, 350' 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 (MD)	Cement Volume (sacks)	Cement Type & Yield	Designed TOC	Centralizers
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'-5097'	100% open hole excess Stage 1 Lead: 472 sks Stage 1 Tail: 364 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	4997'-10328'	50% OH excess Stage 1 Blend Total: 301sks	Blend: Premium Lite High Strength FM + 0.7% bwoc R-3 + 3% bwoc 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 2800'. Directional plans are attached.

Description	Proposed Depth (TVD/MD)	Formation
Horizontal Lateral TD	4919'/10328'	Gallup

Lybrook O30-2307 04H

SHL: 411' FSL, 1318' FEL Sec 30 23N 07W

BHL: 330' FSL, 350' 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'-4824'/5097'	Fresh Water LSND	8.3-10	40-50	8-10

b) Intermediate Casing Point to TD:

Hole Size (in)	Depth (TVD/MD)	Mud Type	Density (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
6 1/8"	4824'/5097'- 4919'/10328'	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 +/- 2342 psi based on a 9.0 ppg at 5004' 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.

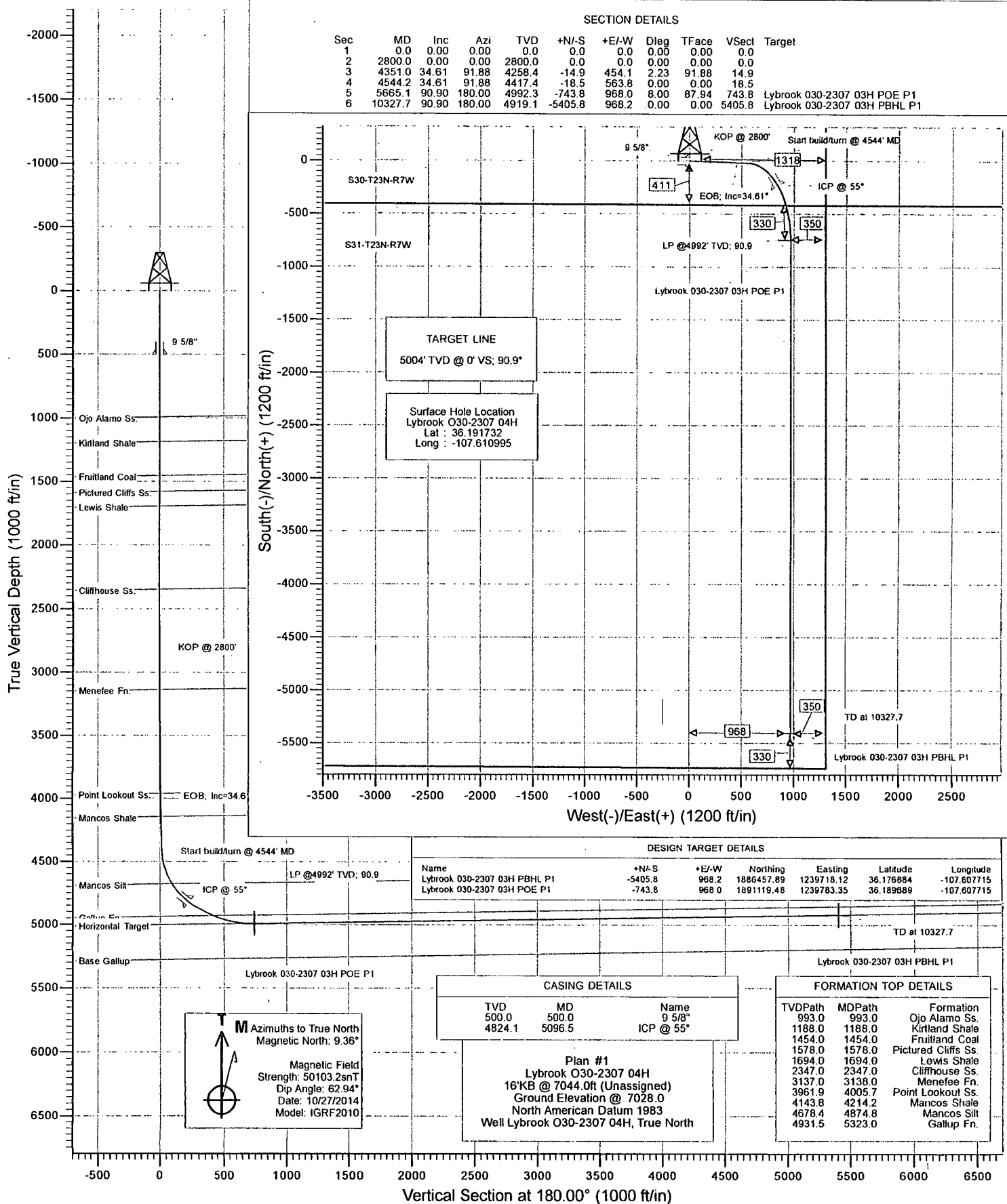
LOC: 411' FSL, 1318' FEL Sec 30 23N 07W County: Sandoval WELL: Lybrook O30-2307 04H			Encana Natural Gas WELL SUMMARY			ENG: Michael Sanch 2-17-15 RIG: Unassigned GLE: 7028 RKBE: 7044			
MWD LWD	OPEN HOLE LOGGING	FORM	DEPTH			HOLE SIZE	CASING SPECS	MW MUD TYPE	DEVIATION INFORMATION
			TVD	MD					
			60	60'		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 spud	None	San Jose Fn. Nacimiento Fn. 9 5/8" Csg	0 surface 500	 500.00		12 1/4	9 5/8" 36ppf J55 STC TOC Surface with 100% OH Excess: 228 sks Type III Cement + 1% bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake + 0.2% bwoc FL-52A + 58.9% Fresh Water.	Fresh wtr 8.3-10	Vertical <1°
Survey Every 60'-120', updating anticollision report after surveys. Stop operations and contact drilling engineer if separation factor approaches 1.5	No OH logs	Ojo Alamo Ss. Kirtland Shale Fruitland Coal Pictured Cliffs Ss. Lewis Shale Cliffhouse Ss. Menefee Fn. Point Lookout Ss. Mancos Shale	993 1,188 1,454 1,578 1,694 2,347 3,137 3,952 4,144			8 3/4	7" 26ppf J55 LTC TOC @ surface (100% OH excess - 70% Lead 30% Tail) Stage 1 Total: 837sks Stage 1 Lead: 472 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. Stage 1 Tail: 364 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.	Fresh Wtr 8.3-10	Vertical <1°
	Mud logger onsite	KOP Mancos Silt Gallup Fn. 7" Csg	2,800 4,680 4,938 4,824			2,800 5,097'	6 1/8	100' overlap at liner top	
Surveys every 30' through the curve							5231' Drilled Lateral		TD = 10327.7 MD
Surveys every stand to TD unless directed otherwise by Geologist	No OH Logs	Horizontal Target TD Base Gallup	5,004 4,919 5,279	10,328			4 1/2" 11.6ppf SB80 LTC TOC @ hanger (50% OH excess) Stage 1 Total: 301sks Stage 1 Blend: 301 sks 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.	WBM 8.3-10	
MWD Gamma Directional									

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 2800', 8 3/4 inch holesize
- 5) Start curve at 10deg/100' build rate
- 6) Drill to csg point of 5097' MD
- 7) R&C 7" csg, circ cmt to surface
- 8) Land at ~90 deg, drill lateral to 10328' run 4 1/2 inch cemented liner



Project: Sandoval County, NM
 Site: S30-T23N-R7W
 Well: Lybrook O30-2307 04H
 Wellbore: HZ
 Design: Plan #1



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook O30-2307 04H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	16'KB @ 7044.0ft (Unassigned)
Project:	Sandoval County, NM	MD Reference:	16'KB @ 7044.0ft (Unassigned)
Site:	S30-T23N-R7W	North Reference:	True
Well:	Lybrook O30-2307 04H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #1		

Project:		Sandoval County, NM	
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site		S30-T23N-R7W			
Site Position:		Northing:	1,891,883.94 ft	Latitude:	36.191750
From:	Lat/Long	Easting:	1,238,783.16 ft	Longitude:	-107.611140
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-0.80 °

Well:	Lybrook O30-2307 04H					
Well Position	+N/-S	0.0 ft	Northing:	1,891,876.79 ft	Latitude:	36.191732
	+E/-W	0.0 ft	Easting:	1,238,825.86 ft	Longitude:	-107.610995
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	7,028.0 ft

Wellbore	HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/27/2014	9.35	62.94	50,103

Design:	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	180.00

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	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,351.0	34.61	91.88	4,258.4	-14.9	454.1	2.23	2.23	0.00	91.88	
4,544.2	34.61	91.88	4,417.4	-18.5	563.8	0.00	0.00	0.00	0.00	
5,665.1	90.90	180.00	4,992.3	-743.8	968.0	8.00	5.02	7.86	87.94	Lybrook 030-2307 03I
10,327.7	90.90	180.00	4,919.1	-5,405.8	968.2	0.00	0.00	0.00	0.00	Lybrook 030-2307 03I

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook O30-2307 04H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	16'KB @ 7044.0ft (Unassigned)
Project:	Sandoval County, NM	MD Reference:	16'KB @ 7044.0ft (Unassigned)
Site:	S30-T23N-R7W	North Reference:	True
Well:	Lybrook O30-2307 04H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #1		

Planned Survey									
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
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
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	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	9 5/8"
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
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	0.0	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	
993.0	0.00	0.00	993.0	0.0	0.0	0.0	0.00	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	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	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	0.00	Lewis Shale
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	
1,900.0	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	KOP @ 2800'
2,900.0	2.23	91.88	2,900.0	-0.1	1.9	0.1	2.23	2.23	
3,000.0	4.46	91.88	2,999.8	-0.3	7.8	0.3	2.23	2.23	
3,100.0	6.69	91.88	3,099.3	-0.6	17.5	0.6	2.23	2.23	
3,138.0	7.54	91.88	3,137.0	-0.7	22.2	0.7	2.23	2.23	Menefee Fn.
3,200.0	8.93	91.88	3,198.4	-1.0	31.1	1.0	2.23	2.23	
3,300.0	11.16	91.88	3,296.8	-1.6	48.5	1.6	2.23	2.23	
3,400.0	13.39	91.88	3,394.6	-2.3	69.7	2.3	2.23	2.23	
3,500.0	15.62	91.88	3,491.4	-3.1	94.8	3.1	2.23	2.23	
3,600.0	17.85	91.88	3,587.1	-4.1	123.5	4.1	2.23	2.23	
3,700.0	20.08	91.88	3,681.7	-5.1	156.0	5.1	2.23	2.23	
3,800.0	22.31	91.88	3,774.9	-6.3	192.2	6.3	2.23	2.23	
3,900.0	24.54	91.88	3,866.7	-7.6	231.9	7.6	2.23	2.23	
4,000.0	26.78	91.88	3,956.8	-9.0	275.2	9.0	2.23	2.23	
4,006.0	26.91	91.88	3,962.1	-9.1	277.9	9.1	2.23	2.23	Point Lookout Ss.
4,100.0	29.01	91.88	4,045.2	-10.6	321.9	10.6	2.23	2.23	
4,200.0	31.24	91.88	4,131.7	-12.2	372.1	12.2	2.23	2.23	
4,214.7	31.57	91.88	4,144.2	-12.5	379.7	12.5	2.23	2.23	Mancos Shale

Cathedral Energy Services

Planning Report

Database: USA EDM 5000 Multi Users DB
Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Site: S30-T23N-R7W
Well: Lybrook O30-2307 04H
Wellbore: HZ
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Lybrook O30-2307 04H
16'KB @ 7044.0ft (Unassigned)
16'KB @ 7044.0ft (Unassigned)
True
Minimum Curvature

Planned Survey

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
4,300.0	33.47	91.88	4,216.1	-14.0	425.6	14.0	2.23	2.23	
4,351.0	34.61	91.88	4,258.4	-14.9	454.1	14.9	2.23	2.23	EOB; Inc=34.61°
4,400.0	34.61	91.88	4,298.7	-15.8	481.9	15.8	0.00	0.00	
4,500.0	34.61	91.88	4,381.0	-17.7	538.7	17.7	0.00	0.00	
4,544.2	34.61	91.88	4,417.4	-18.5	563.8	18.5	0.00	0.00	Start build/turn @ 4544' MD
4,600.0	35.02	99.67	4,463.2	-21.7	595.4	21.7	8.00	0.74	
4,700.0	36.94	112.92	4,544.3	-38.3	651.5	38.3	8.00	1.92	
4,800.0	40.19	124.67	4,622.6	-68.4	705.8	68.4	8.00	3.24	
4,879.2	43.49	132.77	4,681.6	-101.4	746.8	101.4	8.00	4.18	Mancos Silt
4,900.0	44.45	134.74	4,696.6	-111.4	757.3	111.4	8.00	4.61	
5,000.0	49.48	143.27	4,764.9	-166.6	804.9	166.6	8.00	5.02	
5,096.5	54.83	150.32	4,824.1	-230.4	846.5	230.4	8.00	5.55	ICP @ 55°
5,100.0	55.04	150.55	4,826.1	-232.9	847.9	232.9	8.00	5.76	
5,200.0	60.97	156.88	4,879.1	-308.9	885.3	308.9	8.00	5.94	
5,300.0	67.17	162.51	4,922.8	-393.2	916.3	393.2	8.00	6.20	
5,362.4	71.14	165.76	4,945.1	-449.3	932.2	449.3	8.00	6.35	Gallup Fn.
5,400.0	73.55	167.64	4,956.5	-484.1	940.5	484.1	8.00	6.43	
5,500.0	80.05	172.43	4,979.3	-580.0	957.3	580.0	8.00	6.50	
5,600.0	86.62	177.04	4,990.9	-678.8	966.3	678.8	8.00	6.56	
5,665.1	90.90	180.00	4,992.3	-743.8	968.0	743.8	8.00	6.58	LP @4992' TVD; 90.9 - Lybrook O30-2307 03H
5,700.0	90.90	180.00	4,991.8	-778.7	968.0	778.7	0.00	0.00	
5,800.0	90.90	180.00	4,990.2	-878.7	968.0	878.7	0.00	0.00	
5,900.0	90.90	180.00	4,988.6	-978.7	968.0	978.7	0.00	0.00	
6,000.0	90.90	180.00	4,987.0	-1,078.7	968.0	1,078.7	0.00	0.00	
6,100.0	90.90	180.00	4,985.5	-1,178.7	968.0	1,178.7	0.00	0.00	
6,200.0	90.90	180.00	4,983.9	-1,278.7	968.0	1,278.7	0.00	0.00	
6,300.0	90.90	180.00	4,982.3	-1,378.7	968.0	1,378.7	0.00	0.00	
6,400.0	90.90	180.00	4,980.8	-1,478.6	968.0	1,478.6	0.00	0.00	
6,500.0	90.90	180.00	4,979.2	-1,578.6	968.1	1,578.6	0.00	0.00	
6,600.0	90.90	180.00	4,977.6	-1,678.6	968.1	1,678.6	0.00	0.00	
6,700.0	90.90	180.00	4,976.0	-1,778.6	968.1	1,778.6	0.00	0.00	
6,800.0	90.90	180.00	4,974.5	-1,878.6	968.1	1,878.6	0.00	0.00	
6,900.0	90.90	180.00	4,972.9	-1,978.6	968.1	1,978.6	0.00	0.00	
7,000.0	90.90	180.00	4,971.3	-2,078.6	968.1	2,078.6	0.00	0.00	
7,100.0	90.90	180.00	4,969.8	-2,178.6	968.1	2,178.6	0.00	0.00	
7,200.0	90.90	180.00	4,968.2	-2,278.5	968.1	2,278.5	0.00	0.00	
7,300.0	90.90	180.00	4,966.6	-2,378.5	968.1	2,378.5	0.00	0.00	
7,400.0	90.90	180.00	4,965.1	-2,478.5	968.1	2,478.5	0.00	0.00	
7,500.0	90.90	180.00	4,963.5	-2,578.5	968.1	2,578.5	0.00	0.00	
7,600.0	90.90	180.00	4,961.9	-2,678.5	968.1	2,678.5	0.00	0.00	
7,700.0	90.90	180.00	4,960.3	-2,778.5	968.1	2,778.5	0.00	0.00	
7,800.0	90.90	180.00	4,958.8	-2,878.5	968.1	2,878.5	0.00	0.00	
7,900.0	90.90	180.00	4,957.2	-2,978.5	968.1	2,978.5	0.00	0.00	
8,000.0	90.90	180.00	4,955.6	-3,078.4	968.1	3,078.4	0.00	0.00	
8,100.0	90.90	180.00	4,954.1	-3,178.4	968.1	3,178.4	0.00	0.00	
8,200.0	90.90	180.00	4,952.5	-3,278.4	968.1	3,278.4	0.00	0.00	
8,300.0	90.90	180.00	4,950.9	-3,378.4	968.1	3,378.4	0.00	0.00	
8,400.0	90.90	180.00	4,949.3	-3,478.4	968.1	3,478.4	0.00	0.00	
8,500.0	90.90	180.00	4,947.8	-3,578.4	968.1	3,578.4	0.00	0.00	
8,600.0	90.90	180.00	4,946.2	-3,678.4	968.1	3,678.4	0.00	0.00	
8,700.0	90.90	180.00	4,944.6	-3,778.4	968.1	3,778.4	0.00	0.00	
8,800.0	90.90	180.00	4,943.1	-3,878.3	968.1	3,878.3	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook O30-2307 04H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	16'KB @ 7044.0ft (Unassigned)
Project:	Sandoval County, NM	MD Reference:	16'KB @ 7044.0ft (Unassigned)
Site:	S30-T23N-R7W	North Reference:	True
Well:	Lybrook O30-2307 04H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #1		

Planned Survey									
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
8,900.0	90.90	180.00	4,941.5	-3,978.3	968.1	3,978.3	0.00	0.00	
9,000.0	90.90	180.00	4,939.9	-4,078.3	968.1	4,078.3	0.00	0.00	
9,100.0	90.90	180.00	4,938.4	-4,178.3	968.1	4,178.3	0.00	0.00	
9,200.0	90.90	180.00	4,936.8	-4,278.3	968.2	4,278.3	0.00	0.00	
9,300.0	90.90	180.00	4,935.2	-4,378.3	968.2	4,378.3	0.00	0.00	
9,400.0	90.90	180.00	4,933.6	-4,478.3	968.2	4,478.3	0.00	0.00	
9,500.0	90.90	180.00	4,932.1	-4,578.3	968.2	4,578.3	0.00	0.00	
9,600.0	90.90	180.00	4,930.5	-4,678.2	968.2	4,678.2	0.00	0.00	
9,700.0	90.90	180.00	4,928.9	-4,778.2	968.2	4,778.2	0.00	0.00	
9,800.0	90.90	180.00	4,927.4	-4,878.2	968.2	4,878.2	0.00	0.00	
9,900.0	90.90	180.00	4,925.8	-4,978.2	968.2	4,978.2	0.00	0.00	
10,000.0	90.90	180.00	4,924.2	-5,078.2	968.2	5,078.2	0.00	0.00	
10,100.0	90.90	180.00	4,922.6	-5,178.2	968.2	5,178.2	0.00	0.00	
10,200.0	90.90	180.00	4,921.1	-5,278.2	968.2	5,278.2	0.00	0.00	
10,300.0	90.90	180.00	4,919.5	-5,378.2	968.2	5,378.2	0.00	0.00	
10,327.7	90.90	180.00	4,919.1	-5,405.8	968.2	5,405.8	0.00	0.00	TD at 10327.7 - Lybrook O30-2307 03H PBHL F

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Lybrook O30-2307 03H F	0.00	0.00	4,919.1	-5,405.8	968.2	1,886,457.89	1,239,718.12	36.176884	-107.607715
- plan hits target center									
- Point									
Lybrook O30-2307 03H F	0.00	0.00	4,992.3	-743.8	968.0	1,891,119.48	1,239,783.35	36.189689	-107.607715
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
500.0	500.0	9 5/8"	0.000	0.000	
5,096.5	4,824.1	ICP @ 55°	0.000	0.000	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook O30-2307 04H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	16'KB @ 7044.0ft (Unassigned)
Project:	Sandoval County, NM	MD Reference:	16'KB @ 7044.0ft (Unassigned)
Site:	S30-T23N-R7W	North Reference:	True
Well:	Lybrook O30-2307 04H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
993.0	993.0	Ojo Alamo Ss.		0.90	180.00	
1,188.0	1,188.0	Kirtland Shale		0.90	180.00	
1,454.0	1,454.0	Fruitland Coal		0.90	180.00	
1,578.0	1,578.0	Pictured Cliffs Ss.		0.90	180.00	
1,694.0	1,694.0	Lewis Shale		0.90	180.00	
2,347.0	2,347.0	Cliffhouse Ss.		0.90	180.00	
3,138.0	3,137.0	Menefee Fn.		0.90	180.00	
4,006.0	3,962.0	Point Lookout Ss.		0.90	180.00	
4,214.7	4,144.0	Mancos Shale		0.90	180.00	
4,879.2	4,680.0	Mancos Silt		0.90	180.00	
5,362.4	4,938.0	Gallup Fn.		0.90	180.00	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,800.0	2,800.0	0.0	0.0	KOP @ 2800'
4,351.0	4,258.4	-14.9	454.1	EOB; Inc=34.61°
4,544.2	4,417.4	-18.5	563.8	Start build/turn @ 4544' MD
5,665.1	4,992.3	-743.8	968.0	LP @4992' TVD; 90.9
10,327.7	4,919.1	-5,405.8	968.2	TD at 10327.7

Lybrook O30-2307 04H

**SHL: SWSE Section 30, T23N, R7W
411 FSL and 1318 FEL**

**BHL: SESE Section 31, T23N, R7W
330 FSL and 350 FEL**

Sandoval, New Mexico

Lease Number: NM 6681

Topsoil will be stockpiled separate from subsoil with a noticeable gap left between the stockpiles. Vehicle/equipment traffic will be prevented from crossing topsoil stockpiles.

Topsoil will not be stripped when soils are moisture-saturated or frozen below the stripping depth.

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.

3. 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.
 - c. 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

1. 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 above-ground 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.

ENCANA OIL & GAS (USA) INC.

LYBROOK 030-2307 #04H

411' FSL & 1318' 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

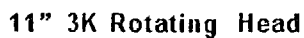
DIRECTIONS

- 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 030-2307 PROPOSED ACCESS.
- 5) CONTINUE 511' ALONG THE STAKED ROAD TO STAKED ENCANA LYBROOK 030-2307 LOCATION.
- 6) WELL FLAG LOCATED AT : LATITUDE: 36.191732° N, LONGITUDE: 107.610995° W (NAD 83)

encana

Well Name and Number:

Lybrook O30-2307 04H



11" 3K Annular

3K Double Ram
Top: Pipe Ram
Bottom: Blind Ram
3" Outlets Below Ram

3K Mud Cross 3" gate valves

