

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.5. Lease Serial No.
NMNM 890216. If Indian, Allottee or Tribe Name
N/A

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

☒ Oil Well☐ Gas Well☐ Other

JAN 11 2013

2. Name of Operator
Encana Oil & Gas (USA) Inc.3a. Address
370 17th Street, Suite 1700
Denver, CO 80202

ATTN: ROBYNN HADEN

3b. Phone No. (include area code)
720-876-39417. If Unit of CA/Agreement, Name and/or No.
N/A8. Well Name and No.
Lybrook A32-2306 01H9. API Well No.
30-043-211274. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SHL: 556' FNL and 222' FEL Sec 32, Township 23N, Range 6W
BHL: 556' FNL and 2285' FEL Sec 31, Township 23N, Range 6W10. Field and Pool or Exploratory Area
Lybrook Gallup11. Country or Parish, State
Sandoval, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Fracture Treat☐ New Construction☐ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☒ Other Replace directional
plan

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Encana Oil & Gas (USA) Inc. would like to replace the directional plan for the Lybrook A32-2306 01H well. Please see attached directional plan and C-102.

OIL CONS. DIV DIST. 3

JAN 30 2013

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations.

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

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)

Amanda Cavoto

Title Engineering Technologist

Signature

Date

1/10/13

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Troy L. Solvers

Title

Petroleum Engineer

Date

1/24/2013

Conditions of approval, if any, are attached. Approval of this notice 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.

Office

FFO

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.

(Instructions on page 2)

NMOCDA

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

District II
811 S. First Street, 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 Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to
Appropriate District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT JAN 11 2013

*API Number		*Pool Code 42289	*Pool Name LYBROOK GALLUP
*Property Code	*Property Name LYBROOK A32-2306		*Well Number 01H
*GRID No. 282327	*Operator Name ENCANA OIL & GAS (USA) INC.		*Elevation 7203'

¹⁰ Surface Location

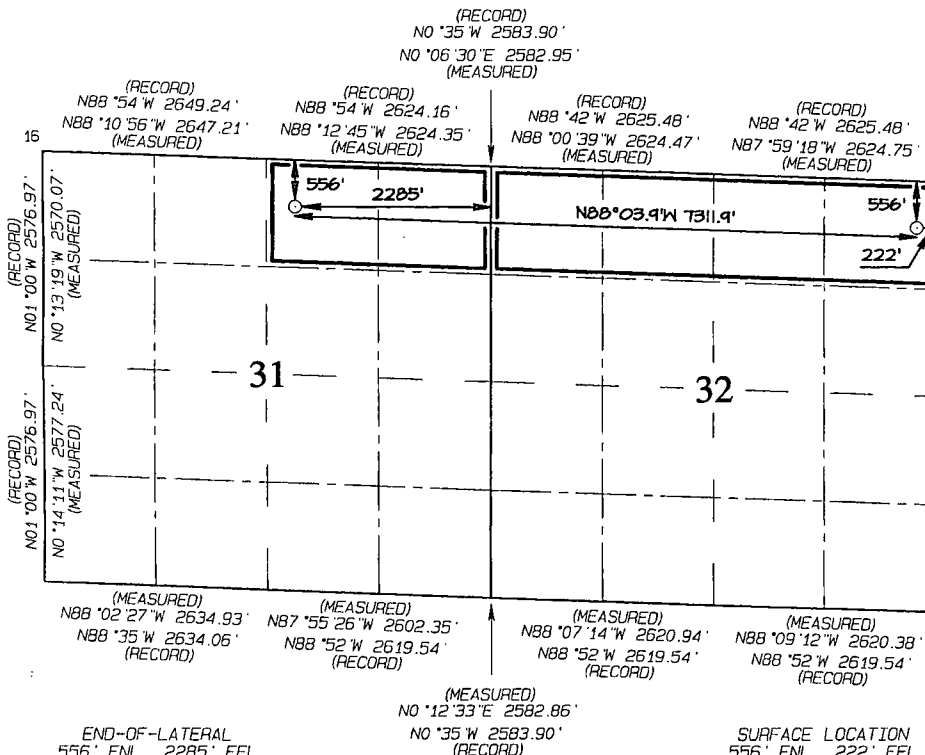
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	32	23N	6W		556	NORTH	222	EAST	SANDOVAL

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
B	31	23N	6W		556	NORTH	2285	EAST	SANDOVAL

¹² Dedicated Acres 240 Acres	N/2 N/2 - Section 32 N/2 NE/4 - Section 31	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



END-OF-LATERAL
556' FNL 2285' FEL
SECTION 31, T23N, R6W
LAT: 36.18821°N
LONG: 107.50713°W
DATUM: NAD1927

LAT: 36.18822°N
LONG: 107.50774°W
DATUM: NAD1983

SURFACE LOCATION
556' FNL 222' FEL
SECTION 32, T23N, R6W
LAT: 36.18779°N
LONG: 107.48236°W
DATUM: NAD1927

LAT: 36.18780°N
LONG: 107.48297°W
DATUM: NAD1983

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.

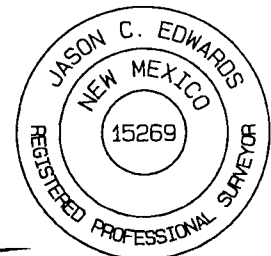
Signature: *[Signature]* Date: 01-10-13
Printed Name: Brenda R. Linster, Regulatory Lead
E-mail Address: brenda.linster@encana.com

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.

Survey Date: DECEMBER 31, 2011

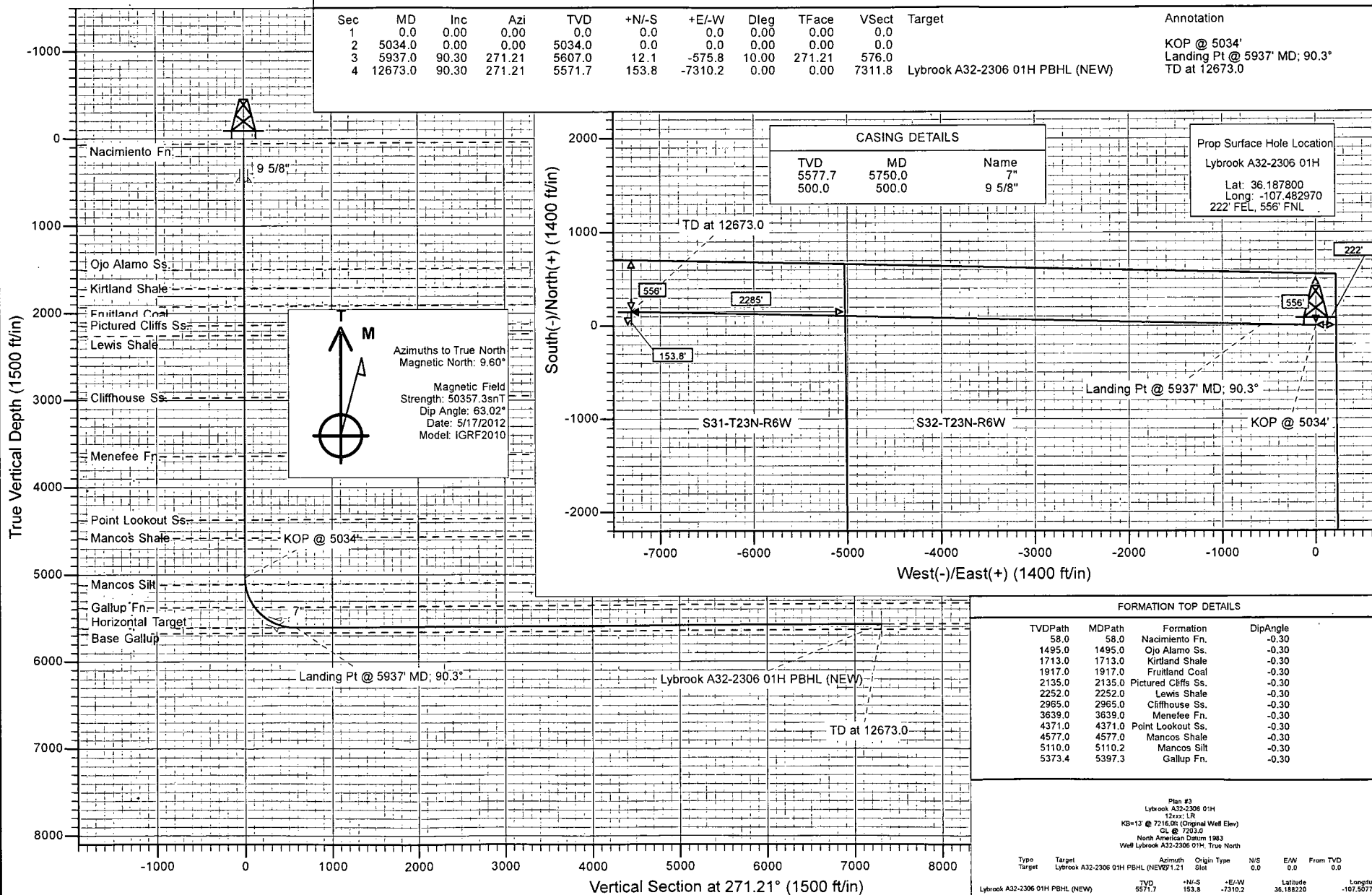
Signature and Seal of Professional Surveyor



Jason C. Edwards
Certificate Number 15269



Project: Sandoval County, NM
 Site: Lybrook
 Well: Lybrook A32-2306 01H
 Wellbore: Hz
 Design: Plan #3



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook A32-2306 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB=13' @ 7216.0ft (Original Well Elev)
Project:	Sandoval County, NM	MD Reference:	KB=13' @ 7216.0ft (Original Well Elev)
Site:	Lybrook	North Reference:	True
Well:	Lybrook A32-2306 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

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		Lybrook			
Site Position:		Northing:	1,882,676.45 ft	Latitude:	36.168210
From:	Lat/Long	Easting:	1,287,068.90 ft	Longitude:	-107.447150
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-0.71 °

Well							Lybrook A32-2306 01H						
Well Position		+N/-S	0.0 ft	Northing:		1,889,940.32 ft		Latitude:		36.187800			
		+E/-W	0.0 ft			Easting:				1,276,586.38 ft		Longitude:	
Position Uncertainty			0.0 ft	Wellhead Elevation:		ft		Ground Level:		7,203.0 ft			

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/17/2012	9.60	63.02	50,357

Design		Plan #3		
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	271.21

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	
5,034.0	0.00	0.00	5,034.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,937.0	90.30	271.21	5,607.0	12.1	-575.8	10.00	10.00	0.00	271.21	
12,673.0	90.30	271.21	5,571.7	153.8	-7,310.2	0.00	0.00	0.00	0.00	Lybrook A32-2306 01H

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Project:	Sandoval County, NM	MD Reference:	KB=13' @ 7216.0ft (Original Well Elev)
Site:	Lybrook	North Reference:	True
Well:	Lybrook A32-2306 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	H _z		
Design:	Plan #3		

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	
58.0	0.00	0.00	58.0	0.0	0.0	0.0	0.00	0.00	Nacimiento Fn.
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	
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	
1,200.0	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	
1,495.0	0.00	0.00	1,495.0	0.0	0.0	0.0	0.00	0.00	Ojo Alamo Ss.
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	
1,713.0	0.00	0.00	1,713.0	0.0	0.0	0.0	0.00	0.00	Kirtland Shale
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	
1,917.0	0.00	0.00	1,917.0	0.0	0.0	0.0	0.00	0.00	Fruitland Coal
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	
2,135.0	0.00	0.00	2,135.0	0.0	0.0	0.0	0.00	0.00	Pictured Cliffs Ss.
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	
2,252.0	0.00	0.00	2,252.0	0.0	0.0	0.0	0.00	0.00	Lewis Shale
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	
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	
2,965.0	0.00	0.00	2,965.0	0.0	0.0	0.0	0.00	0.00	Cliffhouse Ss.
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	
3,200.0	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	
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	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	
3,639.0	0.00	0.00	3,639.0	0.0	0.0	0.0	0.00	0.00	Menefee Fn.
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	
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	
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook A32-2306 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB=13' @ 7216.0ft (Original Well Elev)
Project:	Sandoval County, NM	MD Reference:	KB=13' @ 7216.0ft (Original Well Elev)
Site:	Lybrook	North Reference:	True
Well:	Lybrook A32-2306 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

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
4,371.0	0.00	0.00	4,371.0	0.0	0.0	0.0	0.00	0.00	Point Lookout Ss.
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	
4,577.0	0.00	0.00	4,577.0	0.0	0.0	0.0	0.00	0.00	Mancos Shale
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	
5,034.0	0.00	0.00	5,034.0	0.0	0.0	0.0	0.00	0.00	KOP @ 5034'
5,100.0	6.60	271.21	5,099.9	0.1	-3.8	3.8	10.00	10.00	
5,110.2	7.62	271.21	5,110.0	0.1	-5.1	5.1	10.00	10.00	Mancos Silt
5,200.0	16.60	271.21	5,197.7	0.5	-23.9	23.9	10.00	10.00	
5,300.0	26.60	271.21	5,290.6	1.3	-60.6	60.6	10.00	10.00	
5,397.3	36.32	271.21	5,373.4	2.3	-111.3	111.3	10.00	10.00	Gallup Fn.
5,400.0	36.60	271.21	5,375.6	2.4	-112.9	113.0	10.00	10.00	
5,500.0	46.60	271.21	5,450.3	3.8	-179.2	179.3	10.00	10.00	
5,600.0	56.60	271.21	5,512.3	5.4	-257.5	257.5	10.00	10.00	
5,700.0	66.60	271.21	5,559.9	7.3	-345.3	345.4	10.00	10.00	
5,750.0	71.60	271.21	5,577.7	8.2	-392.0	392.1	10.00	10.00	7"
5,800.0	76.60	271.21	5,591.4	9.3	-440.0	440.1	10.00	10.00	
5,900.0	86.60	271.21	5,606.0	11.3	-538.8	538.9	10.00	10.00	
5,937.0	90.30	271.21	5,607.0	12.1	-575.8	576.0	10.00	10.00	Landing Pt @ 5937' MD; 90.3°
6,000.0	90.30	271.21	5,606.6	13.4	-638.8	638.9	0.00	0.00	
6,100.0	90.30	271.21	5,606.1	15.5	-738.8	738.9	0.00	0.00	
6,200.0	90.30	271.21	5,605.6	17.7	-838.7	838.9	0.00	0.00	
6,300.0	90.30	271.21	5,605.1	19.8	-938.7	938.9	0.00	0.00	
6,400.0	90.30	271.21	5,604.6	21.9	-1,038.7	1,038.9	0.00	0.00	
6,500.0	90.30	271.21	5,604.0	24.0	-1,138.7	1,138.9	0.00	0.00	
6,600.0	90.30	271.21	5,603.5	26.1	-1,238.6	1,238.9	0.00	0.00	
6,700.0	90.30	271.21	5,603.0	28.2	-1,338.6	1,338.9	0.00	0.00	
6,800.0	90.30	271.21	5,602.5	30.3	-1,438.6	1,438.9	0.00	0.00	
6,900.0	90.30	271.21	5,601.9	32.4	-1,538.6	1,538.9	0.00	0.00	
7,000.0	90.30	271.21	5,601.4	34.5	-1,638.6	1,638.9	0.00	0.00	
7,100.0	90.30	271.21	5,600.9	36.6	-1,738.5	1,738.9	0.00	0.00	
7,200.0	90.30	271.21	5,600.4	38.7	-1,838.5	1,838.9	0.00	0.00	
7,300.0	90.30	271.21	5,599.8	40.8	-1,938.5	1,938.9	0.00	0.00	
7,400.0	90.30	271.21	5,599.3	42.9	-2,038.5	2,038.9	0.00	0.00	
7,500.0	90.30	271.21	5,598.8	45.0	-2,138.4	2,138.9	0.00	0.00	
7,600.0	90.30	271.21	5,598.3	47.1	-2,238.4	2,238.9	0.00	0.00	
7,700.0	90.30	271.21	5,597.7	49.2	-2,338.4	2,338.9	0.00	0.00	
7,800.0	90.30	271.21	5,597.2	51.3	-2,438.4	2,438.9	0.00	0.00	
7,900.0	90.30	271.21	5,596.7	53.4	-2,538.3	2,538.9	0.00	0.00	
8,000.0	90.30	271.21	5,596.2	55.5	-2,638.3	2,638.9	0.00	0.00	
8,100.0	90.30	271.21	5,595.7	57.6	-2,738.3	2,738.9	0.00	0.00	
8,200.0	90.30	271.21	5,595.1	59.7	-2,838.3	2,838.9	0.00	0.00	
8,300.0	90.30	271.21	5,594.6	61.8	-2,938.2	2,938.9	0.00	0.00	
8,400.0	90.30	271.21	5,594.1	63.9	-3,038.2	3,038.9	0.00	0.00	
8,500.0	90.30	271.21	5,593.6	66.0	-3,138.2	3,138.9	0.00	0.00	
8,600.0	90.30	271.21	5,593.0	68.1	-3,238.2	3,238.9	0.00	0.00	
8,700.0	90.30	271.21	5,592.5	70.2	-3,338.2	3,338.9	0.00	0.00	
8,800.0	90.30	271.21	5,592.0	72.4	-3,438.1	3,438.9	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook A32-2306 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB=13' @ 7216.0ft (Original Well Elev)
Project:	Sandoval County, NM	MD Reference:	KB=13' @ 7216.0ft (Original Well Elev)
Site:	Lybrook	North Reference:	True
Well:	Lybrook A32-2306 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

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	90.30	271.21	5,591.5	74.5	-3,538.1	3,538.9	0.00	0.00	
9,000.0	90.30	271.21	5,590.9	76.6	-3,638.1	3,638.9	0.00	0.00	
9,100.0	90.30	271.21	5,590.4	78.7	-3,738.1	3,738.9	0.00	0.00	
9,200.0	90.30	271.21	5,589.9	80.8	-3,838.0	3,838.9	0.00	0.00	
9,300.0	90.30	271.21	5,589.4	82.9	-3,938.0	3,938.9	0.00	0.00	
9,400.0	90.30	271.21	5,588.8	85.0	-4,038.0	4,038.9	0.00	0.00	
9,500.0	90.30	271.21	5,588.3	87.1	-4,138.0	4,138.9	0.00	0.00	
9,600.0	90.30	271.21	5,587.8	89.2	-4,237.9	4,238.9	0.00	0.00	
9,700.0	90.30	271.21	5,587.3	91.3	-4,337.9	4,338.9	0.00	0.00	
9,800.0	90.30	271.21	5,586.8	93.4	-4,437.9	4,438.9	0.00	0.00	
9,900.0	90.30	271.21	5,586.2	95.5	-4,537.9	4,538.9	0.00	0.00	
10,000.0	90.30	271.21	5,585.7	97.6	-4,637.8	4,638.9	0.00	0.00	
10,100.0	90.30	271.21	5,585.2	99.7	-4,737.8	4,738.9	0.00	0.00	
10,200.0	90.30	271.21	5,584.7	101.8	-4,837.8	4,838.9	0.00	0.00	
10,300.0	90.30	271.21	5,584.1	103.9	-4,937.8	4,938.9	0.00	0.00	
10,400.0	90.30	271.21	5,583.6	106.0	-5,037.8	5,038.9	0.00	0.00	
10,500.0	90.30	271.21	5,583.1	108.1	-5,137.7	5,138.9	0.00	0.00	
10,600.0	90.30	271.21	5,582.6	110.2	-5,237.7	5,238.9	0.00	0.00	
10,700.0	90.30	271.21	5,582.0	112.3	-5,337.7	5,338.9	0.00	0.00	
10,800.0	90.30	271.21	5,581.5	114.4	-5,437.7	5,438.9	0.00	0.00	
10,900.0	90.30	271.21	5,581.0	116.5	-5,537.6	5,538.9	0.00	0.00	
11,000.0	90.30	271.21	5,580.5	118.6	-5,637.6	5,638.9	0.00	0.00	
11,100.0	90.30	271.21	5,579.9	120.7	-5,737.6	5,738.9	0.00	0.00	
11,200.0	90.30	271.21	5,579.4	122.8	-5,837.6	5,838.9	0.00	0.00	
11,300.0	90.30	271.21	5,578.9	124.9	-5,937.5	5,938.9	0.00	0.00	
11,400.0	90.30	271.21	5,578.4	127.1	-6,037.5	6,038.9	0.00	0.00	
11,500.0	90.30	271.21	5,577.9	129.2	-6,137.5	6,138.9	0.00	0.00	
11,600.0	90.30	271.21	5,577.3	131.3	-6,237.5	6,238.9	0.00	0.00	
11,700.0	90.30	271.21	5,576.8	133.4	-6,337.4	6,338.8	0.00	0.00	
11,800.0	90.30	271.21	5,576.3	135.5	-6,437.4	6,438.8	0.00	0.00	
11,900.0	90.30	271.21	5,575.8	137.6	-6,537.4	6,538.8	0.00	0.00	
12,000.0	90.30	271.21	5,575.2	139.7	-6,637.4	6,638.8	0.00	0.00	
12,100.0	90.30	271.21	5,574.7	141.8	-6,737.4	6,738.8	0.00	0.00	
12,200.0	90.30	271.21	5,574.2	143.9	-6,837.3	6,838.8	0.00	0.00	
12,300.0	90.30	271.21	5,573.7	146.0	-6,937.3	6,938.8	0.00	0.00	
12,400.0	90.30	271.21	5,573.1	148.1	-7,037.3	7,038.8	0.00	0.00	
12,500.0	90.30	271.21	5,572.6	150.2	-7,137.3	7,138.8	0.00	0.00	
12,600.0	90.30	271.21	5,572.1	152.3	-7,237.2	7,238.8	0.00	0.00	
12,673.0	90.30	271.21	5,571.7	153.8	-7,310.2	7,311.8	0.00	0.00	TD at 12673.0 - Lybrook A32-2306 01H PBHL (I

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Lybrook A32-2306 01H f - hit/miss target - Shape - Point	0.00	0.00	5,571.7	153.8	-7,310.2	1,890,187.04	1,269,278.70	36.188220	-107.507740

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook A32-2306 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB=13' @ 7216.0ft (Original Well Elev)
Project:	Sandoval County, NM	MD Reference:	KB=13' @ 7216.0ft (Original Well Elev)
Site:	Lybrook	North Reference:	True
Well:	Lybrook A32-2306 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
500.0	500.0	9 5/8"	9.625	9.625
5,750.0	5,577.7	7"	7.000	7.500

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
58.0	58.0	Nacimiento Fn.		-0.30	271.29
1,495.0	1,495.0	Ojo Alamo Ss.		-0.30	271.29
1,713.0	1,713.0	Kirtland Shale		-0.30	271.29
1,917.0	1,917.0	Fruitland Coal		-0.30	271.29
2,135.0	2,135.0	Pictured Cliffs Ss.		-0.30	271.29
2,252.0	2,252.0	Lewis Shale		-0.30	271.29
2,965.0	2,965.0	Cliffhouse Ss.		-0.30	271.29
3,639.0	3,639.0	Menefee Fn.		-0.30	271.29
4,371.0	4,371.0	Point Lookout Ss.		-0.30	271.29
4,577.0	4,577.0	Mancos Shale		-0.30	271.29
5,110.2	5,110.0	Mancos Silt		-0.30	271.29
5,397.3	5,374.0	Gallup Fn.		-0.30	271.29

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
5,034.0	5,034.0	0.0	0.0	KOP @ 5034'
5,937.0	5,607.0	12.1	-575.8	Landing Pt @ 5937' MD; 90.3°
12,673.0	5,571.7	153.8	-7,310.2	TD at 12673.0