

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 89021

6. 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

7. If Unit of CA/Agreement, Name and/or No.
Pending

2. Name of Operator
Encana Oil & Gas (USA) Inc.

Farmington Field Office

8. Well Name and No.
Lybrook H32-2306 01H

3a. Address
370 17th Street, Suite 1700
Denver, CO 80202

ATTN: ROBYNN HADEN

3b. Phone No. (include area code)
720-876-3941

9. API Well No.
30-043-21126

10. Field and Pool or Exploratory Area
Lybrook Gallup

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SHL: 1785' FNL and 250' FEL Sec 32, Township 23N, Range 6W
BHL: 1785' FNL and 2285' FEL Sec 31, Township 23N, Range 6W

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

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 recomplete 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 recompletion 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 H32-2306 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.

Hold C104

for Directional Survey
and "As Drilled" plat

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

Amanda Cavoto

Date 1/10/13

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Troy L. Salyers

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)

NMOCD AY

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

OIL CONSERVATION DIVISION

1220 South St. Francis Drive
Santa Fe, NM 87505

Submit one copy to
Appropriate District Office

☐ AMENDED REPORT

JAN 11 2013

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number	*Pool Code 42289	*Pool Name LYBROOK GALLUP
*Property Code	*Property Name LYBROOK H32-2306	*Well Number 01H
*GRID No. 282327	*Operator Name ENCANA OIL & GAS (USA) INC.	*Elevation 7196'

¹⁰ Surface Location

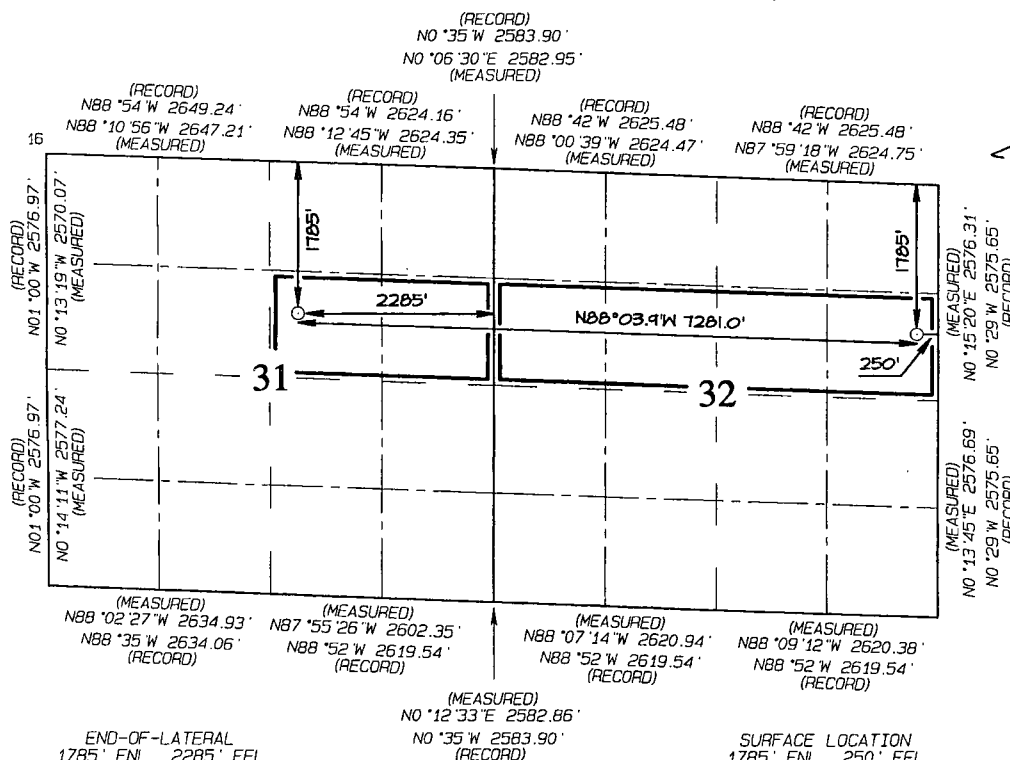
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	32	23N	6W		1785	NORTH	250	EAST	SANDOVAL

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
G	31	23N	6W		1785	NORTH	2285	EAST	SANDOVAL

¹² Dedicated Acres S/2 N/2 - Section 32 240 Acres S/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
1785' FNL 2285' FEL
SECTION 31, T23N, R6W
LAT: 36.18484°N
LONG: 107.50708°W
DATUM: NAD1927

LAT: 36.18485°N
LONG: 107.50769°W
DATUM: NAD1983

SURFACE LOCATION
1785' FNL 250' FEL
SECTION 32, T23N, R6W
LAT: 36.18442°N
LONG: 107.48242°W
DATUM: NAD1927

LAT: 36.18443°N
LONG: 107.48303°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 the location pursuant to a contract or agreement, such as a mineral or working interest, to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Commission.

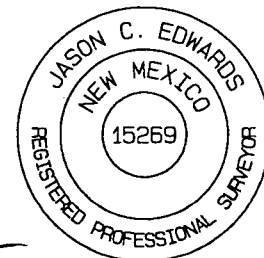
Signature Brenda R. Linster Date 11/11/2011
 Printed Name Brenda R. Linster, Regulatory Lead
 E-mail Address brenda.linster@encana.com

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



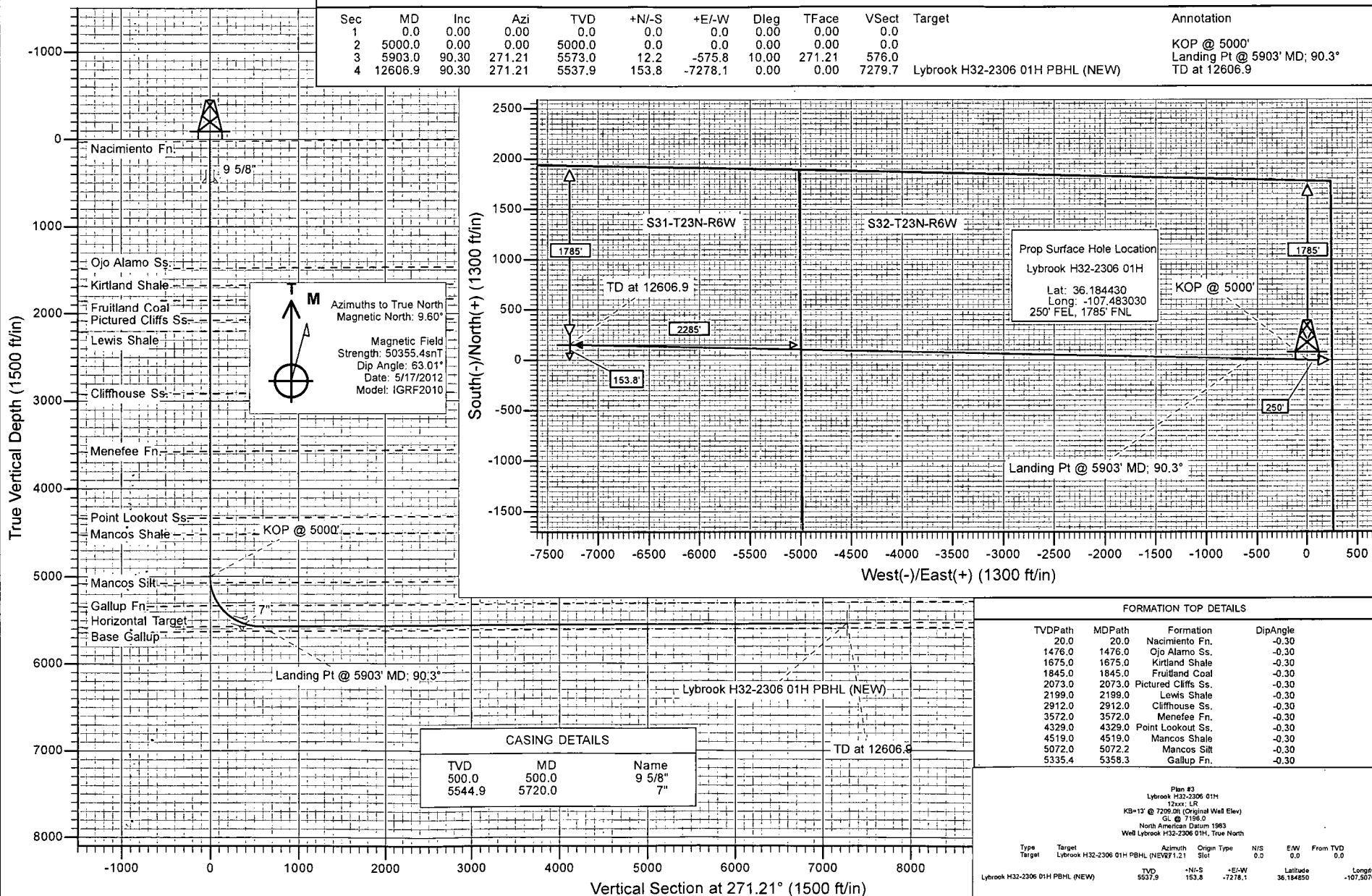
JASON C. EDWARDS
Certificate Number 15269



Project: Sandoval County, NM
 Site: Lybrook
 Well: Lybrook H32-2306 01H
 Wellbore: Hz
 Design: Plan #3



Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		KOP @ 5000'
2	5000.0	0.00	0.00	5000.0	0.0	0.0	0.00	0.00	0.0		Landing Pt @ 5903' MD; 90.3°
3	5903.0	90.30	271.21	5573.0	12.2	-575.8	10.00	271.21	576.0		TD at 12606.9
4	12606.9	90.30	271.21	5537.9	153.8	-7278.1	0.00	0.00	7279.7	Lybrook H32-2306 01H PBHL (NEW)	



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook H32-2306 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB=13' @ 7209.0ft (Original Well Elev)
Project:	Sandoval County, NM	MD Reference:	KB=13' @ 7209.0ft (Original Well Elev)
Site:	Lybrook	North Reference:	True
Well:	Lybrook H32-2306 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 H32-2306 01H				
Well Position	+N/-S	0.0 ft	Northing:	1,888,713.73 ft	Latitude:	36.184430
	+E/-W	0.0 ft	Easting:	1,276,553.08 ft	Longitude:	-107.483030
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	7,196.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/17/2012	9.60	63.01	50,355

Design	Plan #3			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	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	
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,903.0	90.30	271.21	5,573.0	12.2	-575.8	10.00	10.00	0.00	271.21	
12,606.9	90.30	271.21	5,537.9	153.8	-7,278.1	0.00	0.00	0.00	0.00	Lybrook H32-2306 01

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Project:	Sandoval County, NM	MD Reference:	KB=13' @ 7209.0ft (Original Well Elev)
Site:	Lybrook	North Reference:	True
Well:	Lybrook H32-2306 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
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
20.0	0.00	0.00	20.0	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	
1,476.0	0.00	0.00	1,476.0	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	
1,675.0	0.00	0.00	1,675.0	0.0	0.0	0.0	0.00	0.00	Kirtland 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	
1,845.0	0.00	0.00	1,845.0	0.0	0.0	0.0	0.00	0.00	Fruitland Coal
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	
2,073.0	0.00	0.00	2,073.0	0.0	0.0	0.0	0.00	0.00	Pictured Cliffs Ss.
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	
2,199.0	0.00	0.00	2,199.0	0.0	0.0	0.0	0.00	0.00	Lewis Shale
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	
2,400.0	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	
2,912.0	0.00	0.00	2,912.0	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	
3,572.0	0.00	0.00	3,572.0	0.0	0.0	0.0	0.00	0.00	Menefee Fn.
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	
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

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Project:	Sandoval County, NM	MD Reference:	KB=13' @ 7209.0ft (Original Well Elev)
Site:	Lybrook	North Reference:	True
Well:	Lybrook H32-2306 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
4,329.0	0.00	0.00	4,329.0	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	
4,519.0	0.00	0.00	4,519.0	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	KOP @ 5000'
5,072.2	7.21	271.21	5,072.0	0.1	-4.5	4.5	10.00	10.00	Mancos Silt
5,100.0	10.00	271.21	5,099.5	0.2	-8.7	8.7	10.00	10.00	
5,200.0	20.00	271.21	5,196.0	0.7	-34.5	34.5	10.00	10.00	
5,300.0	30.00	271.21	5,286.5	1.6	-76.7	76.7	10.00	10.00	
5,358.3	35.83	271.21	5,335.4	2.3	-108.4	108.4	10.00	10.00	Gallup Fn.
5,400.0	40.00	271.21	5,368.3	2.8	-134.0	134.0	10.00	10.00	
5,500.0	50.00	271.21	5,438.9	4.3	-204.6	204.6	10.00	10.00	
5,600.0	60.00	271.21	5,496.2	6.1	-286.4	286.5	10.00	10.00	
5,700.0	70.00	271.21	5,538.4	8.0	-376.9	377.0	10.00	10.00	
5,720.0	72.00	271.21	5,544.9	8.4	-395.8	395.9	10.00	10.00	7"
5,800.0	80.00	271.21	5,564.3	10.0	-473.3	473.4	10.00	10.00	
5,900.0	90.00	271.21	5,573.0	12.1	-572.8	572.9	10.00	10.00	
5,903.0	90.30	271.21	5,573.0	12.2	-575.8	576.0	10.00	10.00	Landing Pt @ 5903' MD; 90.3°
6,000.0	90.30	271.21	5,572.5	14.2	-672.8	672.9	0.00	0.00	
6,100.0	90.30	271.21	5,571.9	16.3	-772.8	772.9	0.00	0.00	
6,200.0	90.30	271.21	5,571.4	18.4	-872.7	872.9	0.00	0.00	
6,300.0	90.30	271.21	5,570.9	20.6	-972.7	972.9	0.00	0.00	
6,400.0	90.30	271.21	5,570.4	22.7	-1,072.7	1,072.9	0.00	0.00	
6,500.0	90.30	271.21	5,569.9	24.8	-1,172.7	1,172.9	0.00	0.00	
6,600.0	90.30	271.21	5,569.3	26.9	-1,272.6	1,272.9	0.00	0.00	
6,700.0	90.30	271.21	5,568.8	29.0	-1,372.6	1,372.9	0.00	0.00	
6,800.0	90.30	271.21	5,568.3	31.1	-1,472.6	1,472.9	0.00	0.00	
6,900.0	90.30	271.21	5,567.8	33.2	-1,572.6	1,572.9	0.00	0.00	
7,000.0	90.30	271.21	5,567.2	35.4	-1,672.5	1,672.9	0.00	0.00	
7,100.0	90.30	271.21	5,566.7	37.5	-1,772.5	1,772.9	0.00	0.00	
7,200.0	90.30	271.21	5,566.2	39.6	-1,872.5	1,872.9	0.00	0.00	
7,300.0	90.30	271.21	5,565.7	41.7	-1,972.5	1,972.9	0.00	0.00	
7,400.0	90.30	271.21	5,565.1	43.8	-2,072.4	2,072.9	0.00	0.00	
7,500.0	90.30	271.21	5,564.6	45.9	-2,172.4	2,172.9	0.00	0.00	
7,600.0	90.30	271.21	5,564.1	48.0	-2,272.4	2,272.9	0.00	0.00	
7,700.0	90.30	271.21	5,563.6	50.1	-2,372.4	2,372.9	0.00	0.00	
7,800.0	90.30	271.21	5,563.0	52.3	-2,472.3	2,472.9	0.00	0.00	
7,900.0	90.30	271.21	5,562.5	54.4	-2,572.3	2,572.9	0.00	0.00	
8,000.0	90.30	271.21	5,562.0	56.5	-2,672.3	2,672.9	0.00	0.00	
8,100.0	90.30	271.21	5,561.5	58.6	-2,772.3	2,772.9	0.00	0.00	
8,200.0	90.30	271.21	5,561.0	60.7	-2,872.3	2,872.9	0.00	0.00	
8,300.0	90.30	271.21	5,560.4	62.8	-2,972.2	2,972.9	0.00	0.00	
8,400.0	90.30	271.21	5,559.9	64.9	-3,072.2	3,072.9	0.00	0.00	
8,500.0	90.30	271.21	5,559.4	67.0	-3,172.2	3,172.9	0.00	0.00	
8,600.0	90.30	271.21	5,558.9	69.2	-3,272.2	3,272.9	0.00	0.00	
8,700.0	90.30	271.21	5,558.3	71.3	-3,372.1	3,372.9	0.00	0.00	
8,800.0	90.30	271.21	5,557.8	73.4	-3,472.1	3,472.9	0.00	0.00	
8,900.0	90.30	271.21	5,557.3	75.5	-3,572.1	3,572.9	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook H32-2306 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB=13' @ 7209.0ft (Original Well Elev)
Project:	Sandoval County, NM	MD Reference:	KB=13' @ 7209.0ft (Original Well Elev)
Site:	Lybrook	North Reference:	True
Well:	Lybrook H32-2306 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
9,000.0	90.30	271.21	5,556.8	77.6	-3,672.1	3,672.9	0.00	0.00	
9,100.0	90.30	271.21	5,556.2	79.7	-3,772.0	3,772.9	0.00	0.00	
9,200.0	90.30	271.21	5,555.7	81.8	-3,872.0	3,872.9	0.00	0.00	
9,300.0	90.30	271.21	5,555.2	84.0	-3,972.0	3,972.9	0.00	0.00	
9,400.0	90.30	271.21	5,554.7	86.1	-4,072.0	4,072.9	0.00	0.00	
9,500.0	90.30	271.21	5,554.1	88.2	-4,171.9	4,172.9	0.00	0.00	
9,600.0	90.30	271.21	5,553.6	90.3	-4,271.9	4,272.9	0.00	0.00	
9,700.0	90.30	271.21	5,553.1	92.4	-4,371.9	4,372.9	0.00	0.00	
9,800.0	90.30	271.21	5,552.6	94.5	-4,471.9	4,472.9	0.00	0.00	
9,900.0	90.30	271.21	5,552.1	96.6	-4,571.9	4,572.9	0.00	0.00	
10,000.0	90.30	271.21	5,551.5	98.7	-4,671.8	4,672.9	0.00	0.00	
10,100.0	90.30	271.21	5,551.0	100.9	-4,771.8	4,772.9	0.00	0.00	
10,200.0	90.30	271.21	5,550.5	103.0	-4,871.8	4,872.9	0.00	0.00	
10,300.0	90.30	271.21	5,550.0	105.1	-4,971.8	4,972.9	0.00	0.00	
10,400.0	90.30	271.21	5,549.4	107.2	-5,071.7	5,072.9	0.00	0.00	
10,500.0	90.30	271.21	5,548.9	109.3	-5,171.7	5,172.9	0.00	0.00	
10,600.0	90.30	271.21	5,548.4	111.4	-5,271.7	5,272.9	0.00	0.00	
10,700.0	90.30	271.21	5,547.9	113.5	-5,371.7	5,372.9	0.00	0.00	
10,800.0	90.30	271.21	5,547.3	115.6	-5,471.6	5,472.9	0.00	0.00	
10,900.0	90.30	271.21	5,546.8	117.8	-5,571.6	5,572.9	0.00	0.00	
11,000.0	90.30	271.21	5,546.3	119.9	-5,671.6	5,672.9	0.00	0.00	
11,100.0	90.30	271.21	5,545.8	122.0	-5,771.6	5,772.9	0.00	0.00	
11,200.0	90.30	271.21	5,545.2	124.1	-5,871.5	5,872.9	0.00	0.00	
11,300.0	90.30	271.21	5,544.7	126.2	-5,971.5	5,972.9	0.00	0.00	
11,400.0	90.30	271.21	5,544.2	128.3	-6,071.5	6,072.9	0.00	0.00	
11,500.0	90.30	271.21	5,543.7	130.4	-6,171.5	6,172.8	0.00	0.00	
11,600.0	90.30	271.21	5,543.2	132.6	-6,271.4	6,272.8	0.00	0.00	
11,700.0	90.30	271.21	5,542.6	134.7	-6,371.4	6,372.8	0.00	0.00	
11,800.0	90.30	271.21	5,542.1	136.8	-6,471.4	6,472.8	0.00	0.00	
11,900.0	90.30	271.21	5,541.6	138.9	-6,571.4	6,572.8	0.00	0.00	
12,000.0	90.30	271.21	5,541.1	141.0	-6,671.4	6,672.8	0.00	0.00	
12,100.0	90.30	271.21	5,540.5	143.1	-6,771.3	6,772.8	0.00	0.00	
12,200.0	90.30	271.21	5,540.0	145.2	-6,871.3	6,872.8	0.00	0.00	
12,300.0	90.30	271.21	5,539.5	147.3	-6,971.3	6,972.8	0.00	0.00	
12,400.0	90.30	271.21	5,539.0	149.5	-7,071.3	7,072.8	0.00	0.00	
12,500.0	90.30	271.21	5,538.4	151.6	-7,171.2	7,172.8	0.00	0.00	
12,600.0	90.30	271.21	5,537.9	153.7	-7,271.2	7,272.8	0.00	0.00	
12,606.9	90.30	271.21	5,537.9	153.8	-7,278.1	7,279.7	0.00	0.00	TD at 12606.9 - Lybrook H32-2306 01H PBHL (

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 H32-2306 01H I	0.00	0.00	5,537.9	153.8	-7,278.1	1,888,960.03	1,269,277.55	36.184850	-107.507690
- plan hits target center									
- Point									

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook H32-2306 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB=13' @ 7209.0ft (Original Well Elev)
Project:	Sandoval County, NM	MD Reference:	KB=13' @ 7209.0ft (Original Well Elev)
Site:	Lybrook	North Reference:	True
Well:	Lybrook H32-2306 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	H2		
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	12.250
5,720.0	5,544.9	7"	7.000	7.500

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
20.0	20.0	Nacimiento Fn.		-0.30	271.26
1,476.0	1,476.0	Ojo Alamo Ss.		-0.30	271.26
1,675.0	1,675.0	Kirtland Shale		-0.30	271.26
1,845.0	1,845.0	Fruitland Coal		-0.30	271.26
2,073.0	2,073.0	Pictured Cliffs Ss.		-0.30	271.26
2,199.0	2,199.0	Lewis Shale		-0.30	271.26
2,912.0	2,912.0	Cliffhouse Ss.		-0.30	271.26
3,572.0	3,572.0	Menefee Fn.		-0.30	271.26
4,329.0	4,329.0	Point Lookout Ss.		-0.30	271.26
4,519.0	4,519.0	Mancos Shale		-0.30	271.26
5,072.2	5,072.0	Mancos Silt		-0.30	271.26
5,358.3	5,336.0	Gallup Fn.		-0.30	271.26

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
5,000.0	5,000.0	0.0	0.0	KOP @ 5000'
5,903.0	5,573.0	12.2	-575.8	Landing Pt @ 5903' MD; 90.3°
12,606.9	5,537.9	153.8	-7,278.1	TD at 12606.9