

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FEB 06 2013

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.

Lease Serial No.
NM NM 109389
Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

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

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

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

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

8. Well Name and No.
Lybrook D22-2206 02H

9. API Well No.
30-043-21128

10. Field and Pool or Exploratory Area
WC Gallup

4. Location of Well (Footage, Sec., T. R. M., or Survey Description)
SHL: 1169' FNL and 220' FWL Sec 22, T22N, R6W
BHL: 1980' FNL and 330' FWL Sec 21, T22N, R6W

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 Revised Form C-102
	☐ 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 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. (Encana) would like to change the SHL from 1185' FNL & 245' FWL to 1169' FNL & 220' FWL. A revised C-102 and directionals are attached.

RCVD FEB 28 '13
OIL CONS. DIV.
DIST. 3

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)
Robynn Haden

Title Engineering Technologist

Signature

Date

2/5/13

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Troy L. Salyers

Title Petroleum Engineer

Date 2/26/2013

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 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

RCVD FEB 28 '13
OIL CONS. DIV.
DIST. 3

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30043-21128	*Pool Code 97981	*Pool Name WILDCAT (GALLUP) (0)
*Property Code 39433	*Property Name LYBROOK D22-2206	*Well Number 02H
*OGRID No. 282327	*Operator Name ENCANA OIL & GAS (USA) INC.	*Elevation 7188'

¹⁰ Surface Location

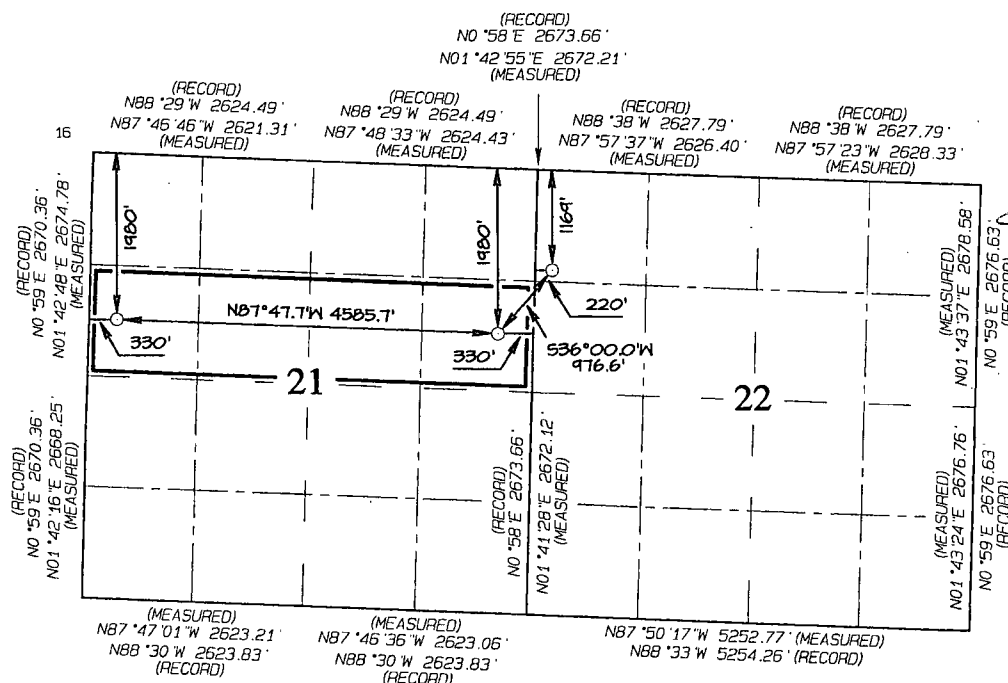
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	22	22N	6W		1169	NORTH	220	WEST	SANDOVAL

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
E	21	22N	6W		1980	NORTH	330	WEST	SANDOVAL

12	Dedicated Acres	160.00 Acres
		S/2 N/2 - Section 21

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
1980' FNL 330' FWL
SECTION 21, T22N, R6W
LAT: 36.12563°N
LONG: 107.48136°W
DATUM: NAD1927

LAT: 36.12565°N
LONG: 107.48196°W
DATUM: NAD1983

POINT-OF-ENTRY
1980' FNL 330' FEL
SECTION 21, T22N, R6W
LAT: 36.12530°N
LONG: 107.46584°W
DATUM: NAD1927

LAT: 36.12532°N
LONG: 107.46644°W
DATUM: NAD1983

SURFACE LOCATION
1169' FNL 220' FWL
SECTION 22, T22N, R6W
LAT: 36.12750 °N
LONG: 107.46393 °W
DATUM: NAD1927

LAT: 36.12752 °N
LONG: 107.46453 °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 a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature K. J. Haden Date 2/5/13

Printed Name
robynn.haden@encana.com

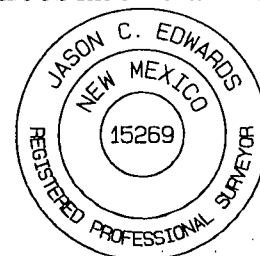
E-mail Address

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.

Date of Survey: MARCH 30, 2012

Signature and Seal of Professional Surveyor

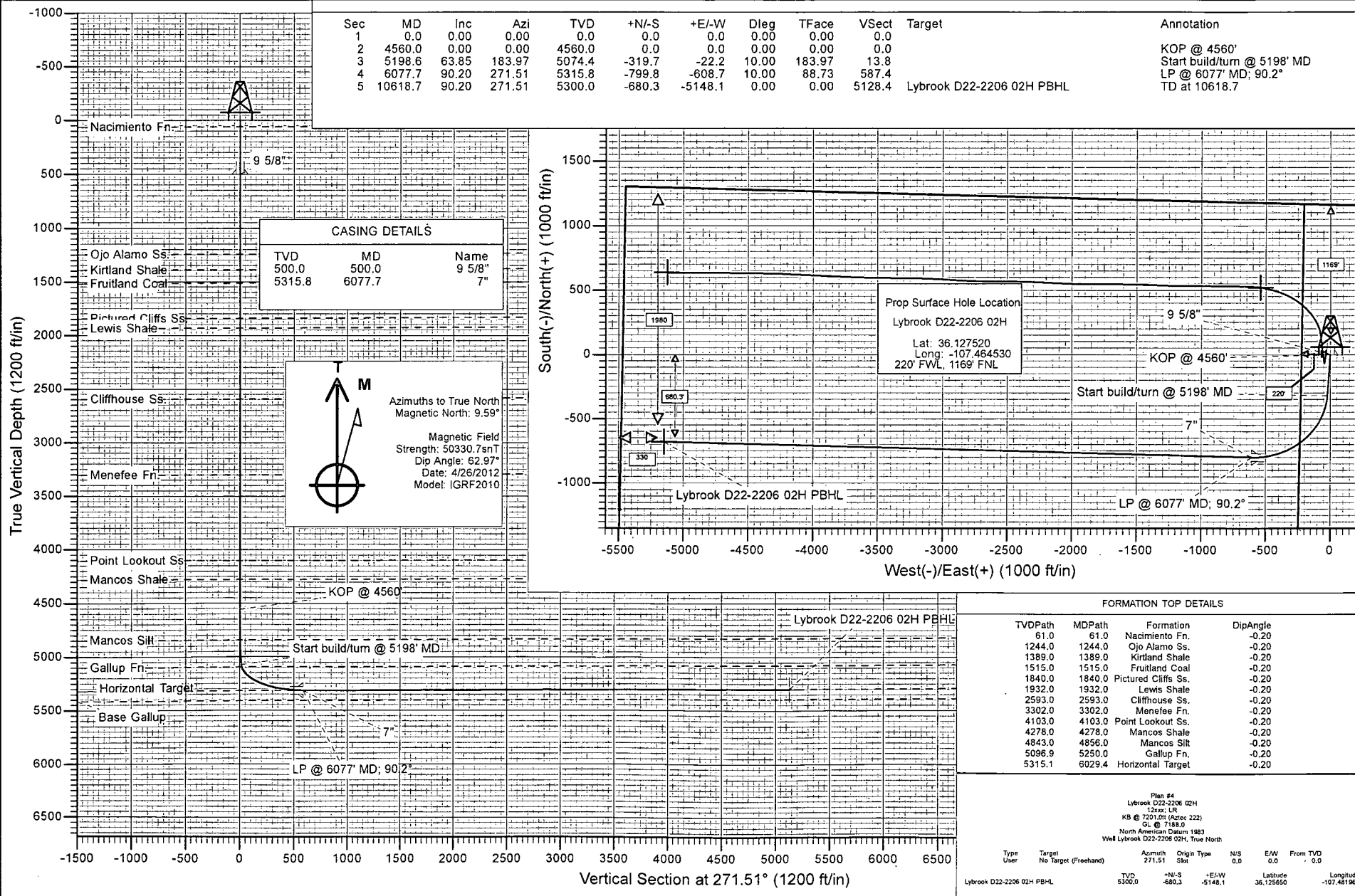


JASON C. EDWARDS
Certificate Number 15269

encana™

natural gas

Project: Sandoval County, NM
Site: Lybrook
Well: Lybrook D22-2206 02H
Wellbore: Hz
Design: Plan #4



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook D22-2206 02H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 7201.0ft (Aztec 222)
Project:	Sandoval County, NM	MD Reference:	KB @ 7201.0ft (Aztec 222)
Site:	Lybrook	North Reference:	True
Well:	Lybrook D22-2206 02H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #4		

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

Well	Lybrook D22-2206 02H					
Well Position	+N/-S	0.0 ft	Northing:	1,867,927.54 ft	Latitude:	36.127520
	+E/-W	0.0 ft	Easting:	1,281,753.54 ft	Longitude:	-107.464530
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	7,188.0 ft

Wellbore						Hz
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength	
			(°)	(°)	(nT)	
	IGRF2010	4/26/2012	9.59	62.97	50,331	

Design	Plan #4			
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	271.51

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	
4,560.0	0.00	0.00	4,560.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,198.6	63.85	183.97	5,074.4	-319.7	-22.2	10.00	10.00	0.00	183.97	
6,077.7	90.20	271.51	5,315.8	-799.8	-608.7	10.00	3.00	9.96	88.73	
10,618.7	90.20	271.51	5,300.0	-680.3	-5,148.1	0.00	0.00	0.00	0.00	Lybrook D22-2206 02

Planning Report

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Project:	Sandoval County, NM	MD Reference:	KB @ 7201.0ft (Aztec 222)
Site:	Lybrook	North Reference:	True
Well:	Lybrook D22-2206 02H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #4		

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	
61.0	0.00	0.00	61.0	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	
1,244.0	0.00	0.00	1,244.0	0.0	0.0	0.0	0.00	0.00	Ojo Alamo Ss.
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	
1,389.0	0.00	0.00	1,389.0	0.0	0.0	0.0	0.00	0.00	Kirtland Shale
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	
1,515.0	0.00	0.00	1,515.0	0.0	0.0	0.0	0.00	0.00	Fruitland Coal
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	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	
1,840.0	0.00	0.00	1,840.0	0.0	0.0	0.0	0.00	0.00	Pictured Cliffs Ss.
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	
1,932.0	0.00	0.00	1,932.0	0.0	0.0	0.0	0.00	0.00	Lewis Shale
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	
2,400.0	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	
2,593.0	0.00	0.00	2,593.0	0.0	0.0	0.0	0.00	0.00	Cliffhouse Ss.
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	
3,200.0	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	
3,302.0	0.00	0.00	3,302.0	0.0	0.0	0.0	0.00	0.00	Menefee Fn.
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	
3,700.0	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	
4,103.0	0.00	0.00	4,103.0	0.0	0.0	0.0	0.00	0.00	Point Lookout Ss.
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	

Planning Report

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Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 7201.0ft (Aztec 222)
Project:	Sandoval County, NM	MD Reference:	KB @ 7201.0ft (Aztec 222)
Site:	Lybrook	North Reference:	True
Well:	Lybrook D22-2206 02H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #4		

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
4,278.0	0.00	0.00	4,278.0	0.0	0.0	0.0	0.00	0.00	Mancos Shale
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	
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	
4,560.0	0.00	0.00	4,560.0	0.0	0.0	0.0	0.00	0.00	KOP @ 4560'
4,600.0	4.00	183.97	4,600.0	-1.4	-0.1	0.1	10.00	10.00	
4,700.0	14.00	183.97	4,698.6	-17.0	-1.2	0.7	10.00	10.00	
4,800.0	24.00	183.97	4,793.0	-49.4	-3.4	2.1	10.00	10.00	
4,856.0	29.59	183.97	4,843.0	-74.6	-5.2	3.2	10.00	10.00	Mancos Silt
4,900.0	34.00	183.97	4,880.4	-97.7	-6.8	4.2	10.00	10.00	
5,000.0	43.99	183.97	4,958.0	-160.4	-11.1	6.9	10.00	10.00	
5,100.0	53.99	183.97	5,023.5	-235.6	-16.4	10.2	10.00	10.00	
5,198.6	63.85	183.97	5,074.4	-319.7	-22.2	13.8	10.00	10.00	Start build/turn @ 5198' MD
5,200.0	63.85	184.13	5,075.0	-321.0	-22.3	13.8	10.00	0.23	
5,250.0	64.08	189.68	5,096.9	-365.5	-27.7	18.1	10.00	0.45	Gallup Fn.
5,300.0	64.51	195.22	5,118.7	-409.5	-37.4	26.6	10.00	0.87	
5,400.0	65.99	206.11	5,160.6	-494.3	-69.4	56.4	10.00	1.48	
5,500.0	68.21	216.69	5,199.6	-572.8	-117.4	102.3	10.00	2.22	
5,600.0	71.08	226.90	5,234.5	-642.5	-179.8	162.9	10.00	2.87	
5,700.0	74.50	236.74	5,264.1	-701.4	-254.9	236.3	10.00	3.41	
5,800.0	78.33	246.25	5,287.7	-747.6	-340.2	320.4	10.00	3.83	
5,900.0	82.46	255.48	5,304.4	-779.9	-433.2	412.5	10.00	4.13	
6,000.0	86.78	264.53	5,313.8	-797.1	-531.2	510.0	10.00	4.32	
6,029.4	88.07	267.18	5,315.1	-799.2	-560.5	539.2	10.00	4.39	Horizontal Target
6,077.7	90.20	271.51	5,315.8	-799.8	-608.7	587.4	9.99	4.40	LP @ 6077' MD; 90.2° - 7"
6,100.0	90.20	271.51	5,315.8	-799.2	-631.0	609.7	0.00	0.00	
6,200.0	90.20	271.51	5,315.4	-796.5	-731.0	709.7	0.00	0.00	
6,300.0	90.20	271.51	5,315.1	-793.9	-830.9	809.7	0.00	0.00	
6,400.0	90.20	271.51	5,314.7	-791.3	-930.9	909.7	0.00	0.00	
6,500.0	90.20	271.51	5,314.4	-788.7	-1,030.9	1,009.7	0.00	0.00	
6,600.0	90.20	271.51	5,314.0	-786.0	-1,130.8	1,109.7	0.00	0.00	
6,700.0	90.20	271.51	5,313.7	-783.4	-1,230.8	1,209.7	0.00	0.00	
6,800.0	90.20	271.51	5,313.3	-780.8	-1,330.8	1,309.7	0.00	0.00	
6,900.0	90.20	271.51	5,313.0	-778.1	-1,430.7	1,409.7	0.00	0.00	
7,000.0	90.20	271.51	5,312.6	-775.5	-1,530.7	1,509.7	0.00	0.00	
7,100.0	90.20	271.51	5,312.3	-772.9	-1,630.7	1,609.7	0.00	0.00	
7,200.0	90.20	271.51	5,311.9	-770.2	-1,730.6	1,709.7	0.00	0.00	
7,300.0	90.20	271.51	5,311.6	-767.6	-1,830.6	1,809.7	0.00	0.00	
7,400.0	90.20	271.51	5,311.2	-765.0	-1,930.6	1,909.7	0.00	0.00	
7,500.0	90.20	271.51	5,310.9	-762.4	-2,030.5	2,009.7	0.00	0.00	
7,600.0	90.20	271.51	5,310.5	-759.7	-2,130.5	2,109.7	0.00	0.00	
7,700.0	90.20	271.51	5,310.2	-757.1	-2,230.4	2,209.7	0.00	0.00	
7,800.0	90.20	271.51	5,309.8	-754.5	-2,330.4	2,309.7	0.00	0.00	
7,900.0	90.20	271.51	5,309.5	-751.8	-2,430.4	2,409.7	0.00	0.00	
8,000.0	90.20	271.51	5,309.1	-749.2	-2,530.3	2,509.7	0.00	0.00	
8,100.0	90.20	271.51	5,308.8	-746.6	-2,630.3	2,609.7	0.00	0.00	
8,200.0	90.20	271.51	5,308.4	-744.0	-2,730.3	2,709.7	0.00	0.00	
8,300.0	90.20	271.51	5,308.1	-741.3	-2,830.2	2,809.7	0.00	0.00	
8,400.0	90.20	271.51	5,307.7	-738.7	-2,930.2	2,909.7	0.00	0.00	
8,500.0	90.20	271.51	5,307.4	-736.1	-3,030.2	3,009.7	0.00	0.00	
8,600.0	90.20	271.51	5,307.0	-733.4	-3,130.1	3,109.7	0.00	0.00	
8,700.0	90.20	271.51	5,306.7	-730.8	-3,230.1	3,209.7	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook D22-2206 02H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 7201.0ft (Aztec 222)
Project:	Sandoval County, NM	MD Reference:	KB @ 7201.0ft (Aztec 222)
Site:	Lybrook	North Reference:	True
Well:	Lybrook D22-2206 02H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #4		

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
8,800.0	90.20	271.51	5,306.3	-728.2	-3,330.1	3,309.7	0.00	0.00	
8,900.0	90.20	271.51	5,306.0	-725.5	-3,430.0	3,409.7	0.00	0.00	
9,000.0	90.20	271.51	5,305.6	-722.9	-3,530.0	3,509.7	0.00	0.00	
9,100.0	90.20	271.51	5,305.3	-720.3	-3,630.0	3,609.7	0.00	0.00	
9,200.0	90.20	271.51	5,304.9	-717.7	-3,729.9	3,709.7	0.00	0.00	
9,300.0	90.20	271.51	5,304.6	-715.0	-3,829.9	3,809.7	0.00	0.00	
9,400.0	90.20	271.51	5,304.3	-712.4	-3,929.8	3,909.7	0.00	0.00	
9,500.0	90.20	271.51	5,303.9	-709.8	-4,029.8	4,009.7	0.00	0.00	
9,600.0	90.20	271.51	5,303.6	-707.1	-4,129.8	4,109.7	0.00	0.00	
9,700.0	90.20	271.51	5,303.2	-704.5	-4,229.7	4,209.7	0.00	0.00	
9,800.0	90.20	271.51	5,302.9	-701.9	-4,329.7	4,309.7	0.00	0.00	
9,900.0	90.20	271.51	5,302.5	-699.2	-4,429.7	4,409.7	0.00	0.00	
10,000.0	90.20	271.51	5,302.2	-696.6	-4,529.6	4,509.7	0.00	0.00	
10,100.0	90.20	271.51	5,301.8	-694.0	-4,629.6	4,609.7	0.00	0.00	
10,200.0	90.20	271.51	5,301.5	-691.4	-4,729.6	4,709.7	0.00	0.00	
10,300.0	90.20	271.51	5,301.1	-688.7	-4,829.5	4,809.7	0.00	0.00	
10,400.0	90.20	271.51	5,300.8	-686.1	-4,929.5	4,909.7	0.00	0.00	
10,500.0	90.20	271.51	5,300.4	-683.5	-5,029.5	5,009.7	0.00	0.00	
10,600.0	90.20	271.51	5,300.1	-680.8	-5,129.4	5,109.7	0.00	0.00	
10,618.7	90.20	271.51	5,300.0	-680.3	-5,148.1	5,128.4	0.00	0.00	TD at 10618.7 - Lybrook D22-2206 02H PBHL

Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
Lybrook D22-2206 02H I	0.00	0.00	5,300.0	-680.3	-5,148.1	1,867,311.59	1,276,597.36	36.125650	-107.481960
- plan hits target center									
- Point									
	6,077.7	5,315.8	7"					0.000	0.000
	500.0	500.0	9 5/8"					0.000	0.000

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook D22-2206 02H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 7201.0ft (Aztec 222)
Project:	Sandoval County, NM	MD Reference:	KB @ 7201.0ft (Aztec 222)
Site:	Lybrook	North Reference:	True
Well:	Lybrook D22-2206 02H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #4		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
61.0	61.0	Nacimiento Fn.		-0.20	271.51	
1,244.0	1,244.0	Ojo Alamo Ss.		-0.20	271.51	
1,389.0	1,389.0	Kirtland Shale		-0.20	271.51	
1,515.0	1,515.0	Fruitland Coal		-0.20	271.51	
1,840.0	1,840.0	Pictured Cliffs Ss.		-0.20	271.51	
1,932.0	1,932.0	Lewis Shale		-0.20	271.51	
2,593.0	2,593.0	Cliffhouse Ss.		-0.20	271.51	
3,302.0	3,302.0	Menefee Fn.		-0.20	271.51	
4,103.0	4,103.0	Point Lookout Ss.		-0.20	271.51	
4,278.0	4,278.0	Mancos Shale		-0.20	271.51	
4,856.0	4,843.0	Mancos Silt		-0.20	271.51	
5,250.0	5,097.0	Gallup Fn.		-0.20	271.51	
6,029.4	5,317.0	Horizontal Target		-0.20	271.51	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
4,560.0	4,560.0	0.0	0.0	KOP @ 4560'	
5,198.6	5,074.4	-319.7	-22.7	Start build/turn @ 5198' MD	
6,077.7	5,314.8	-799.7	-609.4	LP @ 6077' MD; 90.2°	
10,618.7				TD at 10618.7	