

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

OCT 19 2012

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.
NM 28748

6. If Indian, Allottee or Tribe Name

N/A

Field Office

SUBMIT IN TRIPLICATE - Other instructions on page 2.

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

N/A

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
Lybrook H26-2307 02H

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

9. API Well No.
30-043-21133

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

3b. Phone No. (include area code)
720-876-3437

10. Field and Pool or Exploratory Area
Lybrook Gallup

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SHL: 2227' FNL and 357' FEL, Sec 26 Township 23N Range 7W
BHL: 1880' FNL and 330' FWL, Sec 26 Township 23N Range 7W

11. Country or Parish, State
Sandoval, New Mexico

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
	☒ 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. (Encana) would like to adjust the surface hole location, bottom hole location, intermediate casing setting depth and directional plan for the Lybrook H26-2307 02H well.

The new surface hole location will be 2227' FNL and 357' FEL Sec 26, T23N, R7W. The new bottom hole location will be 1880' FNL and 330' FWL Sec 26, T23N, R7W. Please see attached C-102 for further detail.

The new intermediate casing setting depth will be 5436' MD/5206'TVD. Please see attached wellbore diagram for further detail.

Please see attached directional plan.

RCVD NOV 7 '12
OIL CONS. DIV.
DIST. 3

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

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations.

7" CEMENT TO SURFACE

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

Name (Printed/Typed)
Amanda Cavoto

Title Engineering Technologist

Signature

Amanda Cavoto

Date

10/18/12

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Troy L. Solvers

Title

Petroleum Engineer

Date

10/30/2012

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)

for Directional Survey
and "As Drilled" plat

CONFIDENTIAL

Hold C104
for Directional Survey
and "As Drilled" plat

Av

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

RCVD NOV 7 '12
OIL CONS. DIV.

DIST. 3

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-043-21133	*Pool Code 42289	*Pool Name LYBROOK GALLUP
*Property Code 39120	*Property Name LYBROOK H26-2307	*Well Number 02H
*OGRID No. 282327	*Operator Name ENCANA OIL & GAS (USA) INC.	*Elevation 7233'

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	26	23N	7W		2227	NORTH	357	EAST	SANDOVAL

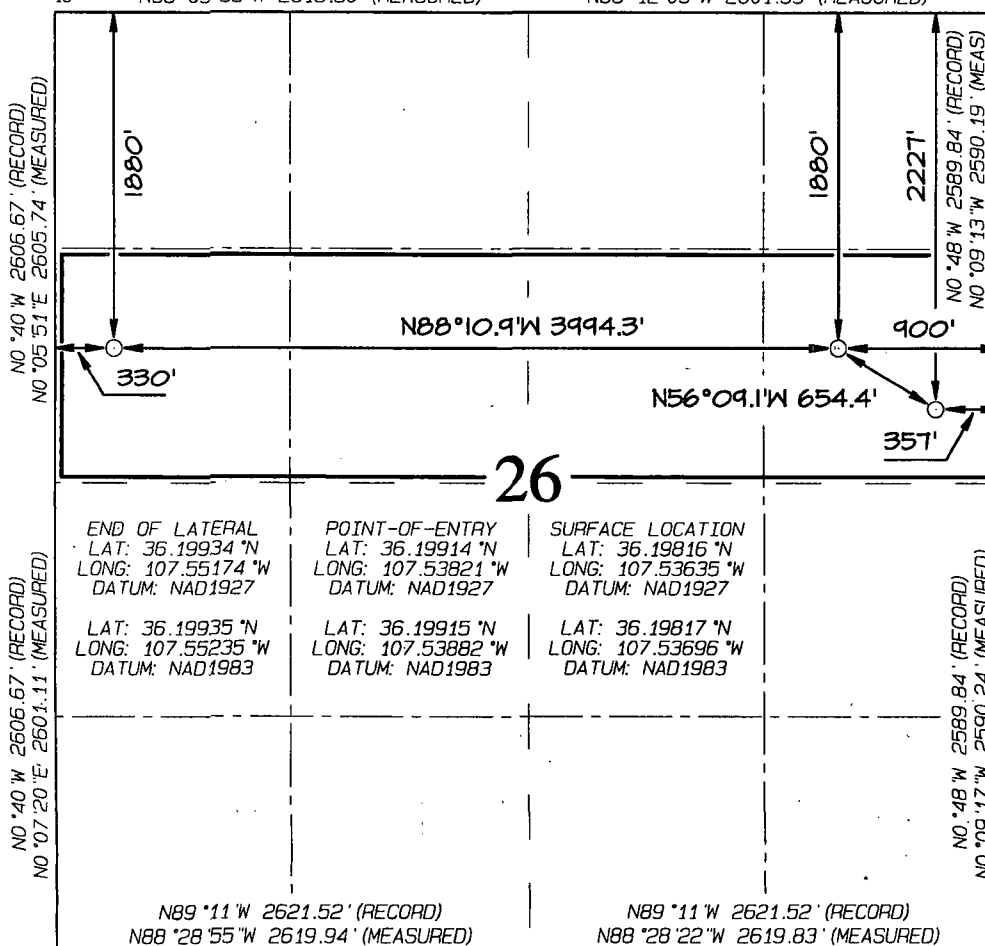
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	26	23N	7W		1880	NORTH	330	WEST	SANDOVAL

¹² Dedicated Acres 160.0 Acres (S/2 N/2) Section 26	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
--	-------------------------------	----------------------------------	-------------------------

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

¹⁶ N88°55'W 2613.27' (RECORD) N88°55'W 2613.27' (RECORD)
N88°09'35"W 2615.30' (MEASURED) N88°12'03"W 2601.33' (MEASURED)



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: *Brenda R. Linster* Date: 10/19/12
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: OCTOBER 3, 2012

Signature and Seal of Professional Surveyor



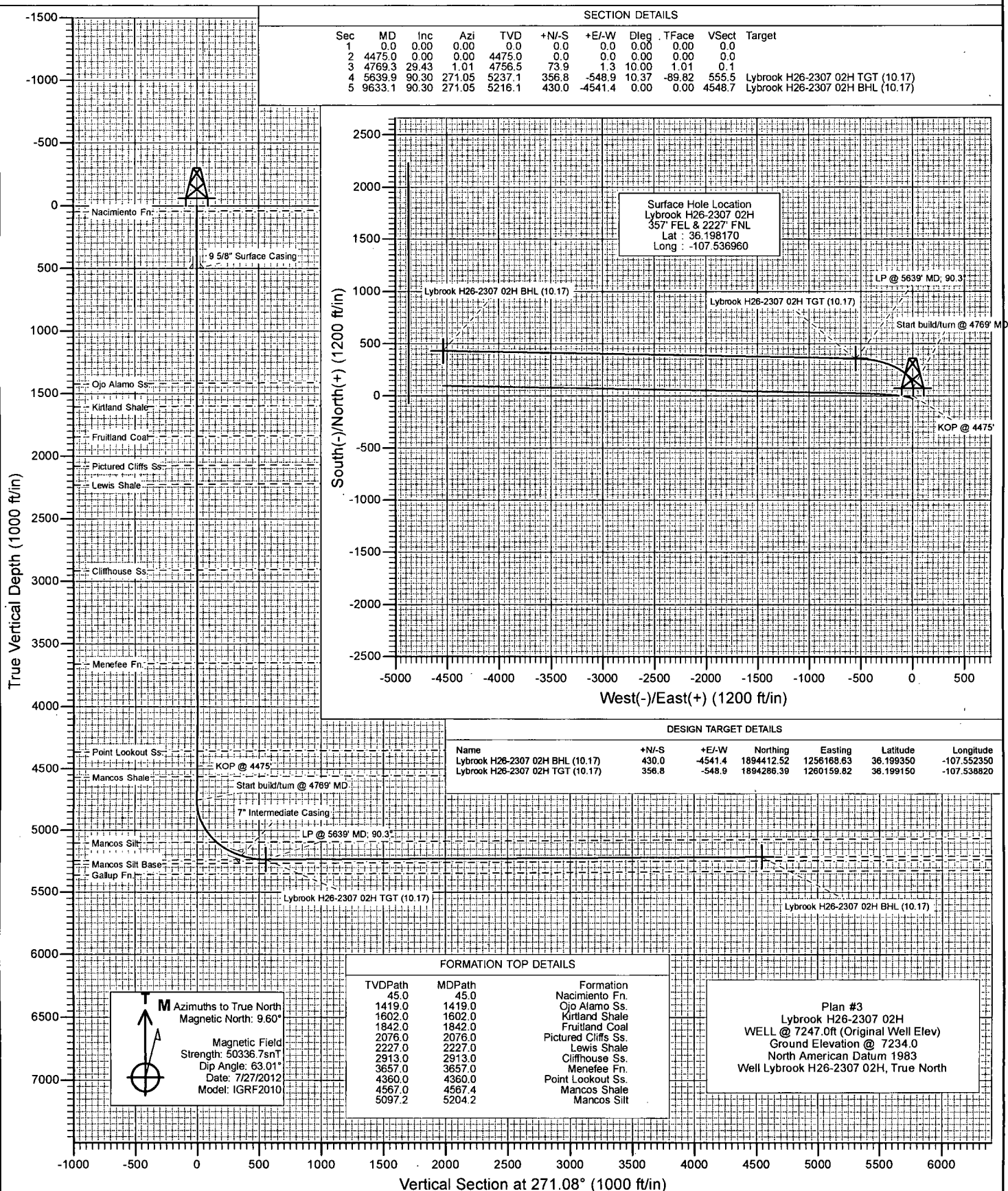
JASON C. EDWARDS
Certificate Number 15269

LOC: Sec 26-T23N-R7W County: Sandoval WELL: Lybrook H26-2307 02H			Encana Natural Gas WELL SUMMARY					ENG: J. Fox/ A. 11/26/12 RIG: GLE: 7233 RKBE: 7247	
MWD LWD	OPEN HOLE LOGGING	FORM	DEPTH			HOLE SIZE	CASING SPECS	MW MUD TYPE	DEVIATION INFORMATION
			TVD	MD					
			60	60'		30	20" 94# 100sx Type I Neat 48.8ppg cmt	Fresh wtr 8.3-9.2	
Surveys After csg is run	None	Nacimiento	45			12 1/4	9 5/8" 36ppf J55 STC TOC @ surface 178 sks Type III Cmt	Fresh wtr 8.4-8.6	Vertical <1°
Surveys every 500'	No OH logs Mud logger onsite	Ojo Alamo Kirtland Fruitland Coal Pictured Cliffs Ss Lewis Shale Cliffhouse Ss Menefee Fn Point Lookout Ss KICK OFF PT Mancos Sh Mancos Silt	1419 1,602 1842 2076 2227 2913 3657 4360 4475 4567 5098			8 1/2	7" 26ppf J55 LTC TOC @ surface 30% OH excess: 583sks Lead 155 sks Tail 428sks	Fresh Wtr 8.5-8.8	Vertical <1° KOP 4475 10 deg/100'
			5206	5436					
Surveys every 500' Gyro at CP MWD Gamma Directional	No OH Logs	horz target Gallup	5237 5357	5640		6 1/8	200' overlap at liner top 3990' Lateral 4 1/2" 11.6ppf SB80 LTC Running external swellable csg packers for isolation of prod string	8.6-9.0 OBM Switch to OBM 8.6-9.0	.25deg updip 5216'TVD TD = 9633' MD

NOTES:

- 1) Drill with 30" bit to 60', set 20" 94# 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 4475' , 8 1/2" hole size,
- 5) PU directional tools and start curve at 10deg/100' build rate
- 6) Drill to casing point of 5436' MD
- 7) R&C 7" casing, circ cmt to surface, switch to OBM
- 8) Land at 90deg, drill 3990' lateral to 9633', run 4 1/2" liner with external swellable csg packers

RCVD NOV 26 '12
 OIL CONS. DIV.
 DIST. 3



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook H26-2307 02H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 7247.0ft (Original Well Elev)
Project:	Sandoval County, NM	MD Reference:	WELL @ 7247.0ft (Original Well Elev)
Site:	Lybrook	North Reference:	True
Well:	Lybrook H26-2307 02H	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 H26-2307 02H				
Well Position	+N/-S	0.0 ft	Northing:	1,893,922.34 ft	Latitude:	36.198170
	+E/-W	0.0 ft	Easting:	1,260,703.90 ft	Longitude:	-107.536960
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	7,234.0 ft

Wellbore	HZ				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	7/27/2012	9.60	63.01	50,337

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	271.08

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,475.0	0.00	0.00	4,475.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,769.3	29.43	1.01	4,756.5	73.9	1.3	10.00	10.00	0.00	1.01	
5,639.9	90.30	271.05	5,237.1	356.8	-548.9	10.37	6.99	-10.33	-89.82	Lybrook H26-2307 02
9,633.1	90.30	271.05	5,216.1	430.0	-4,541.4	0.00	0.00	0.00	0.00	Lybrook H26-2307 02

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook H26-2307 02H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 7247.0ft (Original Well Elev)
Project:	Sandoval County, NM	MD Reference:	WELL @ 7247.0ft (Original Well Elev)
Site:	Lybrook	North Reference:	True
Well:	Lybrook H26-2307 02H	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	
45.0	0.00	0.00	45.0	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" Surface Casing
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	
1,419.0	0.00	0.00	1,419.0	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	
1,602.0	0.00	0.00	1,602.0	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	
1,842.0	0.00	0.00	1,842.0	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	
2,076.0	0.00	0.00	2,076.0	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	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	
2,227.0	0.00	0.00	2,227.0	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	
2,913.0	0.00	0.00	2,913.0	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	
3,657.0	0.00	0.00	3,657.0	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 H26-2307 02H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 7247.0ft (Original Well Elev)
Project:	Sandoval County, NM	MD Reference:	WELL @ 7247.0ft (Original Well Elev)
Site:	Lybrook	North Reference:	True
Well:	Lybrook H26-2307 02H	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
4,360.0	0.00	0.00	4,360.0	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	
4,475.0	0.00	0.00	4,475.0	0.0	0.0	0.0	0.00	0.00	KOP @ 4475'
4,500.0	2.50	1.01	4,500.0	0.5	0.0	0.0	10.00	10.00	
4,567.4	9.24	1.01	4,567.0	7.4	0.1	0.0	10.00	10.00	Mancos Shale
4,600.0	12.50	1.01	4,599.0	13.6	0.2	0.0	10.00	10.00	
4,700.0	22.50	1.01	4,694.3	43.6	0.8	0.1	10.00	10.00	
4,769.3	29.43	1.01	4,756.5	73.9	1.3	0.1	10.00	10.00	Start build/turn @ 4769' MD
4,800.0	29.60	354.55	4,783.3	89.0	0.7	1.0	10.37	0.54	
4,900.0	32.18	334.92	4,869.3	137.8	-13.0	15.5	10.37	2.59	
5,000.0	37.29	319.02	4,951.6	185.0	-44.2	47.7	10.37	5.11	
5,100.0	44.04	306.90	5,027.5	228.8	-92.0	96.3	10.37	6.75	
5,200.0	51.79	297.59	5,094.6	268.0	-154.8	159.8	10.37	7.74	
5,204.2	52.13	297.24	5,097.2	269.5	-157.7	162.8	10.37	8.10	Mancos Silt
5,300.0	60.12	290.13	5,150.6	301.2	-230.5	236.2	10.37	8.34	
5,400.0	68.81	283.85	5,193.7	327.4	-316.7	322.8	10.37	8.69	
5,436.0	71.99	281.79	5,205.7	334.9	-349.8	356.0	10.37	8.84	7" Intermediate Casing
5,500.0	77.70	278.28	5,222.5	345.6	-410.6	417.0	10.37	8.92	
5,600.0	86.70	273.08	5,236.0	355.4	-509.0	515.6	10.37	9.00	
5,639.9	90.30	271.05	5,237.1	356.8	-548.9	555.5	10.37	9.03	LP @ 5639' MD; 90.3° - Lybrook H26-2307 02H
5,700.0	90.30	271.05	5,236.8	357.9	-609.0	615.6	0.00	0.00	
5,800.0	90.30	271.05	5,236.2	359.7	-708.9	715.6	0.00	0.00	
5,900.0	90.30	271.05	5,235.7	361.6	-808.9	815.6	0.00	0.00	
6,000.0	90.30	271.05	5,235.2	363.4	-908.9	915.6	0.00	0.00	
6,100.0	90.30	271.05	5,234.7	365.2	-1,008.9	1,015.6	0.00	0.00	
6,200.0	90.30	271.05	5,234.1	367.1	-1,108.9	1,115.6	0.00	0.00	
6,300.0	90.30	271.05	5,233.6	368.9	-1,208.8	1,215.6	0.00	0.00	
6,400.0	90.30	271.05	5,233.1	370.7	-1,308.8	1,315.6	0.00	0.00	
6,500.0	90.30	271.05	5,232.6	372.6	-1,408.8	1,415.6	0.00	0.00	
6,600.0	90.30	271.05	5,232.0	374.4	-1,508.8	1,515.6	0.00	0.00	
6,700.0	90.30	271.05	5,231.5	376.2	-1,608.8	1,615.6	0.00	0.00	
6,800.0	90.30	271.05	5,231.0	378.1	-1,708.8	1,715.6	0.00	0.00	
6,900.0	90.30	271.05	5,230.5	379.9	-1,808.7	1,815.6	0.00	0.00	
7,000.0	90.30	271.05	5,229.9	381.7	-1,908.7	1,915.6	0.00	0.00	
7,100.0	90.30	271.05	5,229.4	383.6	-2,008.7	2,015.6	0.00	0.00	
7,200.0	90.30	271.05	5,228.9	385.4	-2,108.7	2,115.6	0.00	0.00	
7,300.0	90.30	271.05	5,228.4	387.2	-2,208.7	2,215.6	0.00	0.00	
7,400.0	90.30	271.05	5,227.8	389.0	-2,308.6	2,315.6	0.00	0.00	
7,500.0	90.30	271.05	5,227.3	390.9	-2,408.6	2,415.6	0.00	0.00	
7,600.0	90.30	271.05	5,226.8	392.7	-2,508.6	2,515.6	0.00	0.00	
7,700.0	90.30	271.05	5,226.3	394.5	-2,608.6	2,615.6	0.00	0.00	
7,800.0	90.30	271.05	5,225.7	396.4	-2,708.6	2,715.6	0.00	0.00	
7,900.0	90.30	271.05	5,225.2	398.2	-2,808.6	2,815.6	0.00	0.00	
8,000.0	90.30	271.05	5,224.7	400.0	-2,908.5	2,915.6	0.00	0.00	
8,100.0	90.30	271.05	5,224.2	401.9	-3,008.5	3,015.6	0.00	0.00	
8,200.0	90.30	271.05	5,223.6	403.7	-3,108.5	3,115.6	0.00	0.00	
8,300.0	90.30	271.05	5,223.1	405.5	-3,208.5	3,215.6	0.00	0.00	
8,400.0	90.30	271.05	5,222.6	407.4	-3,308.5	3,315.6	0.00	0.00	
8,500.0	90.30	271.05	5,222.1	409.2	-3,408.4	3,415.6	0.00	0.00	
8,600.0	90.30	271.05	5,221.5	411.0	-3,508.4	3,515.6	0.00	0.00	
8,700.0	90.30	271.05	5,221.0	412.9	-3,608.4	3,615.6	0.00	0.00	
8,800.0	90.30	271.05	5,220.5	414.7	-3,708.4	3,715.6	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook H26-2307 02H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 7247.0ft (Original Well Elev)
Project:	Sandoval County, NM	MD Reference:	WELL @ 7247.0ft (Original Well Elev)
Site:	Lybrook	North Reference:	True
Well:	Lybrook H26-2307 02H	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	271.05	5,220.0	416.5	-3,808.4	3,815.5	0.00	0.00	
9,000.0	90.30	271.05	5,219.4	418.4	-3,908.4	3,915.5	0.00	0.00	
9,100.0	90.30	271.05	5,218.9	420.2	-4,008.3	4,015.5	0.00	0.00	
9,200.0	90.30	271.05	5,218.4	422.0	-4,108.3	4,115.5	0.00	0.00	
9,300.0	90.30	271.05	5,217.9	423.9	-4,208.3	4,215.5	0.00	0.00	
9,400.0	90.30	271.05	5,217.3	425.7	-4,308.3	4,315.5	0.00	0.00	
9,500.0	90.30	271.05	5,216.8	427.5	-4,408.3	4,415.5	0.00	0.00	
9,600.0	90.30	271.05	5,216.3	429.4	-4,508.2	4,515.5	0.00	0.00	
9,633.1	90.30	271.05	5,216.1	430.0	-4,541.4	4,548.7	0.00	0.00	TD at 9633.1 - Lybrook H26-2307 02H BHL (10.

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Lybrook H26-2307 02H - - hit/miss target - Shape - Point	0.00	0.00	5,237.1	356.8	-548.9	1,894,286.39	1,260,159.82	36.199150	-107.538820
Lybrook H26-2307 02H I - plan hits target center - Polygon Point 1 Point 2	0.00	0.00	5,216.1	430.0	-4,541.4	1,894,412.52	1,256,168.63	36.199350	-107.552350
			5,216.1	-500.0	-330.0	1,893,916.94	1,255,832.03		
			5,216.1	1,800.0	-330.0	1,896,216.74	1,255,862.54		

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
5,436.0	5,205.7	7" Intermediate Casing	0.000	0.000
500.0	500.0	9 5/8" Surface Casing	0.000	0.000

Formations				
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)
45.0	45.0	Nacimiento Fn.		271.03
1,419.0	1,419.0	Ojo Alamo Ss.		271.03
1,602.0	1,602.0	Kirtland Shale		271.03
1,842.0	1,842.0	Fruitland Coal		271.03
2,076.0	2,076.0	Pictured Cliffs Ss.		271.03
2,227.0	2,227.0	Lewis Shale		271.03
2,913.0	2,913.0	Cliffhouse Ss.		271.03
3,657.0	3,657.0	Menefee Fn.		271.03
4,360.0	4,360.0	Point Lookout Ss.		271.03
4,567.4	4,567.0	Mancos Shale		271.03
5,204.2	5,098.0	Mancos Silt		271.03

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook H26-2307 02H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 7247.0ft (Original Well Elev)
Project:	Sandoval County, NM	MD Reference:	WELL @ 7247.0ft (Original Well Elev)
Site:	Lybrook	North Reference:	True
Well:	Lybrook H26-2307 02H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #3		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
4,475.0	4,475.0	0.0	0.0	KOP @ 4475'
4,769.3	4,756.5	73.9	1.3	Start build/turn @ 4769' MD
5,639.9	5,237.1	356.8	-548.9	LP @ 5639' MD; 90.3°
9,633.1	5,216.1	430.0	-4,541.4	TD at 9633.1

EnCana Oil & Gas (USA) Inc

Sandoval County, NM

Lybrook

Lybrook H26-2307 02H

HZ

Plan #3

Anticollision Report

17 October, 2012

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook H26-2307 02H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 7247.0ft (Original Well Elev)
Reference Site:	Lybrook	MD Reference:	WELL @ 7247.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Lybrook H26-2307 02H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Reference	Plan #3		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 100.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 10/17/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	9,632.6	Plan #3 (HZ)	MWD	Geolink MWD

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Lybrook						
Lybrook H26-2307 01H - HZ - Plan #3	4,400.0	4,400.0	29.1	13.8	1.902 CC, ES	
Lybrook H26-2307 01H - HZ - Plan #3	4,500.0	4,500.0	29.7	14.0	1.896 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook H26-2307 02H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 7247.0ft (Original Well Elev)
Reference Site:	Lybrook	MD Reference:	WELL @ 7247.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Lybrook H26-2307 02H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design Lybrook - Lybrook H26-2307 01H - HZ - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference	Offset	Semi Major Axis		Distance		Total		Separation		Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	180.00	-29.1	0.0	29.1					
100.0	100.0	100.0	100.0	0.2	0.2	180.00	-29.1	0.0	29.1	28.8	0.30	95.908		
200.0	200.0	200.0	200.0	0.3	0.3	180.00	-29.1	0.0	29.1	28.5	0.65	44.620		
300.0	300.0	300.0	300.0	0.5	0.5	180.00	-29.1	0.0	29.1	28.1	1.00	29.073		
400.0	400.0	400.0	400.0	0.7	0.7	180.00	-29.1	0.0	29.1	27.8	1.35	21.561		
500.0	500.0	500.0	500.0	0.8	0.8	180.00	-29.1	0.0	29.1	27.4	1.70	17.133		
600.0	600.0	600.0	600.0	1.0	1.0	180.00	-29.1	0.0	29.1	27.1	2.05	14.215		
700.0	700.0	700.0	700.0	1.2	1.2	180.00	-29.1	0.0	29.1	26.7	2.40	12.146		
800.0	800.0	800.0	800.0	1.4	1.4	180.00	-29.1	0.0	29.1	26.4	2.75	10.602		
900.0	900.0	900.0	900.0	1.5	1.5	180.00	-29.1	0.0	29.1	26.0	3.10	9.407		
1,000.0	1,000.0	1,000.0	1,000.0	1.7	1.7	180.00	-29.1	0.0	29.1	25.7	3.45	8.454		
1,100.0	1,100.0	1,100.0	1,100.0	1.9	1.9	180.00	-29.1	0.0	29.1	25.3	3.79	7.676		
1,200.0	1,200.0	1,200.0	1,200.0	2.1	2.1	180.00	-29.1	0.0	29.1	25.0	4.14	7.029		
1,300.0	1,300.0	1,300.0	1,300.0	2.2	2.2	180.00	-29.1	0.0	29.1	24.6	4.49	6.483		
1,400.0	1,400.0	1,400.0	1,400.0	2.4	2.4	180.00	-29.1	0.0	29.1	24.3	4.84	6.016		
1,500.0	1,500.0	1,500.0	1,500.0	2.6	2.6	180.00	-29.1	0.0	29.1	23.9	5.19	5.611		
1,600.0	1,600.0	1,600.0	1,600.0	2.8	2.8	180.00	-29.1	0.0	29.1	23.6	5.54	5.258		
1,700.0	1,700.0	1,700.0	1,700.0	2.9	2.9	180.00	-29.1	0.0	29.1	23.2	5.89	4.946		
1,800.0	1,800.0	1,800.0	1,800.0	3.1	3.1	180.00	-29.1	0.0	29.1	22.9	6.24	4.669		
1,900.0	1,900.0	1,900.0	1,900.0	3.3	3.3	180.00	-29.1	0.0	29.1	22.5	6.59	4.422		
2,000.0	2,000.0	2,000.0	2,000.0	3.5	3.5	180.00	-29.1	0.0	29.1	22.2	6.94	4.199		
2,100.0	2,100.0	2,100.0	2,100.0	3.6	3.6	180.00	-29.1	0.0	29.1	21.8	7.29	3.998		
2,200.0	2,200.0	2,200.0	2,200.0	3.8	3.8	180.00	-29.1	0.0	29.1	21.5	7.63	3.815		
2,300.0	2,300.0	2,300.0	2,300.0	4.0	4.0	180.00	-29.1	0.0	29.1	21.1	7.98	3.648		
2,400.0	2,400.0	2,400.0	2,400.0	4.2	4.2	180.00	-29.1	0.0	29.1	20.8	8.33	3.496		
2,500.0	2,500.0	2,500.0	2,500.0	4.3	4.3	180.00	-29.1	0.0	29.1	20.4	8.68	3.355		
2,600.0	2,600.0	2,600.0	2,600.0	4.5	4.5	180.00	-29.1	0.0	29.1	20.1	9.03	3.225		
2,700.0	2,700.0	2,700.0	2,700.0	4.7	4.7	180.00	-29.1	0.0	29.1	19.7	9.38	3.105		
2,800.0	2,800.0	2,800.0	2,800.0	4.9	4.9	180.00	-29.1	0.0	29.1	19.4	9.73	2.994		
2,900.0	2,900.0	2,900.0	2,900.0	5.0	5.0	180.00	-29.1	0.0	29.1	19.0	10.08	2.890		
3,000.0	3,000.0	3,000.0	3,000.0	5.2	5.2	180.00	-29.1	0.0	29.1	18.7	10.43	2.793		
3,100.0	3,100.0	3,100.0	3,100.0	5.4	5.4	180.00	-29.1	0.0	29.1	18.4	10.78	2.703		
3,200.0	3,200.0	3,200.0	3,200.0	5.6	5.6	180.00	-29.1	0.0	29.1	18.0	11.12	2.618		
3,300.0	3,300.0	3,300.0	3,300.0	5.7	5.7	180.00	-29.1	0.0	29.1	17.7	11.47	2.538		
3,400.0	3,400.0	3,400.0	3,400.0	5.9	5.9	180.00	-29.1	0.0	29.1	17.3	11.82	2.464		
3,500.0	3,500.0	3,500.0	3,500.0	6.1	6.1	180.00	-29.1	0.0	29.1	17.0	12.17	2.393		
3,600.0	3,600.0	3,600.0	3,600.0	6.3	6.3	180.00	-29.1	0.0	29.1	16.6	12.52	2.326		
3,700.0	3,700.0	3,700.0	3,700.0	6.4	6.4	180.00	-29.1	0.0	29.1	16.3	12.87	2.263		
3,800.0	3,800.0	3,800.0	3,800.0	6.6	6.6	180.00	-29.1	0.0	29.1	15.9	13.22	2.203		
3,900.0	3,900.0	3,900.0	3,900.0	6.8	6.8	180.00	-29.1	0.0	29.1	15.6	13.57	2.147		
4,000.0	4,000.0	4,000.0	4,000.0	7.0	7.0	180.00	-29.1	0.0	29.1	15.2	13.92	2.093		
4,100.0	4,100.0	4,100.0	4,100.0	7.1	7.1	180.00	-29.1	0.0	29.1	14.9	14.27	2.042		
4,200.0	4,200.0	4,200.0	4,200.0	7.3	7.3	180.00	-29.1	0.0	29.1	14.5	14.62	1.993		
4,300.0	4,300.0	4,300.0	4,300.0	7.5	7.5	180.00	-29.1	0.0	29.1	14.2	14.96	1.946		
4,400.0	4,400.0	4,400.0	4,400.0	7.7	7.7	180.00	-29.1	0.0	29.1	13.8	15.31	1.902 CC, ES		
4,455.6	4,455.6	4,455.6	4,455.6	7.8	7.8	179.01	-29.1	0.0	29.8	14.3	15.50	1.922		
4,500.0	4,500.0	4,500.0	4,500.0	7.8	7.8	179.01	-29.1	0.0	29.7	14.0	15.65	1.896 SF		
4,600.0	4,599.0	4,599.0	4,599.0	8.0	8.0	179.29	-29.1	0.0	42.7	26.9	15.76	2.710		
4,700.0	4,694.3	4,694.3	4,694.3	8.2	8.2	179.56	-29.1	0.0	72.7	57.2	15.54	4.680		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

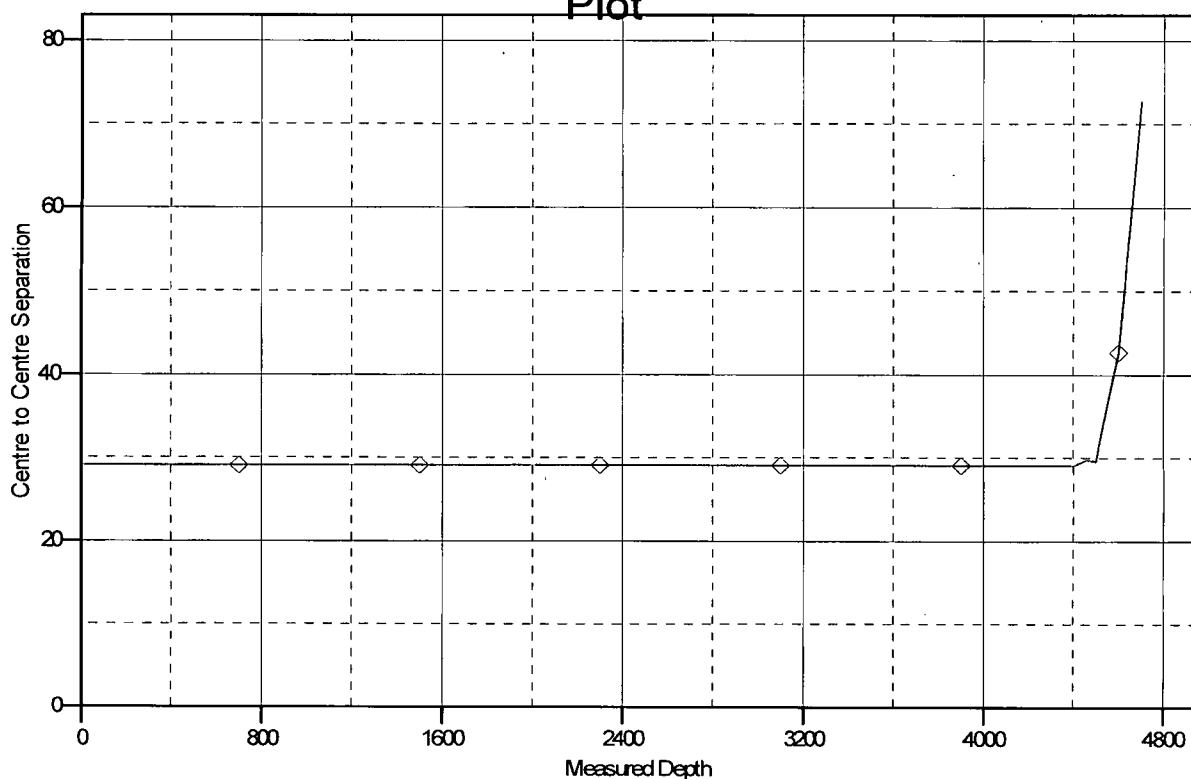
Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook H26-2307 02H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 7247.0ft (Original Well Elev)
Reference Site:	Lybrook	MD Reference:	WELL @ 7247.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Lybrook H26-2307 02H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 7247.0ft (Original Well Elev)
Offset Depths are relative to Offset Datum
Central Meridian is -106.250000 °

Coordinates are relative to: Lybrook H26-2307 02H
Coordinate System is US State Plane 1983, New Mexico Central Zone
Grid Convergence at Surface is: -0.76°

Ladder Plot



LEGEND

—◆— Lybrook H26-2307 01H, HZ, Plan #3 V0