

JUL 03 2014 SUNDAY 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.

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)

720-876-3926

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SHL: 2192' FSL and 2551' FEL Sec 31, T23N, R7W
BHL: 1177' FSL and 330' FWL Sec 36, T23N, R8W

5. Lease Serial No.

NM 6681, NM LG-9090, BIA NO-G-1402-1882

6. If Indian, Allottee or Tribe Name

Allottee

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

Pending

8. Well Name and No.

Lybrook J31-2307 02H

9. API Well No.

30-043-21215

10. Field and Pool or Exploratory Area

Alamito-Gallup Pool

11. County or Parish, State

Sandoval and San Juan Counties, 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
	☒ 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.)

In order to avoid stranding allottee minerals, Encana Oil & Gas (USA) Inc. (Encana) extended the Lybrook J31-2307 02H well lateral to include the S2SW of Section 36, T23N, R8W. Encana would like to revise the survey plat, 10-Point Drilling Plan, Well Summary Diagram, and Directional Drilling Plan submitted on March 20, 2014. Additionally, Encana is revising the C-102 to reflect these changes as well as a change to the project area and bottom hole location.

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations

OIL CONS. DIV DIST. 3

JUL 14 2014

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)

Jessica Gregg

Title Regulatory Analyst

Signature

Jessica Gregg

Date 07/02/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

William Tambekou

Title

Petroleum Engineer

Date

7/7/2014

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

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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

OIL CONS. DIV DIST. 3

WELL LOCATION AND ACREAGE DEDICATION PLAT

JUL 14 2014

*API Number 30-043-21215		*Pool Code 1039	*Pool Name ALAMITO - GALLUP
*Property Code 313511	*Property Name LYBROOK J31-2307		*Well Number 02H
*OSRID No. 282327	*Operator Name ENCANA OIL & GAS (USA) INC.		*Elevation 6974'

¹⁰ Surface Location.

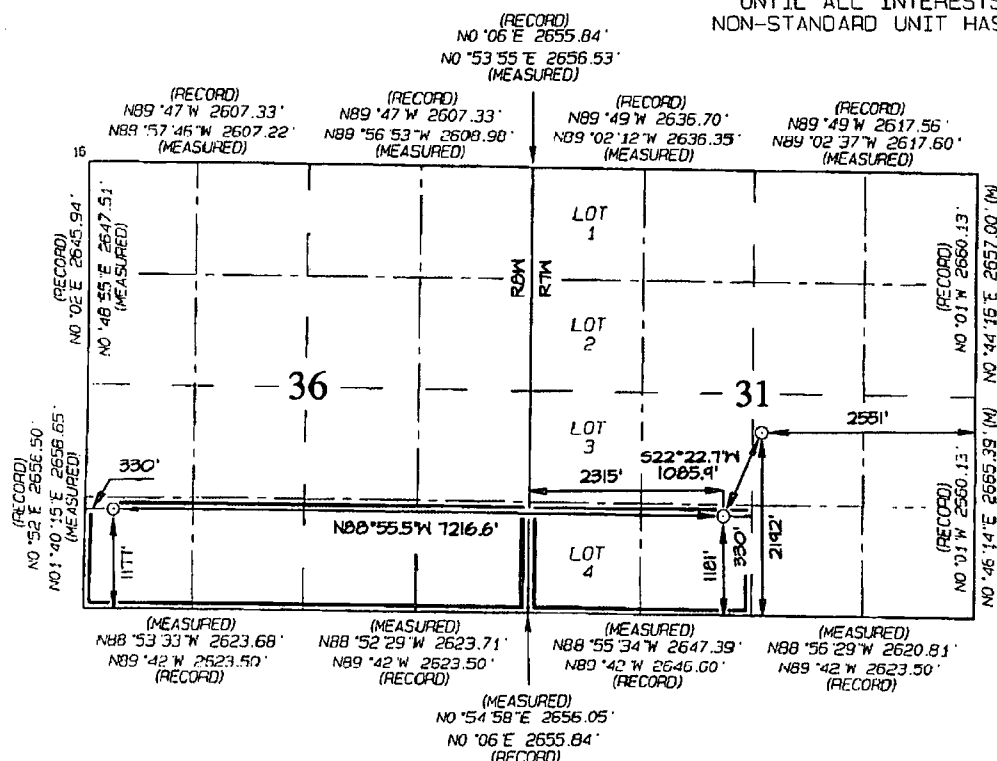
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	31	23N	7W		2192	SOUTH	2551	EAST	SANDOVAL

¹¹ Bottom Hole Location If Different From Surface

U. or lot no.	Section	Township	Range	Lot 1st	Feet from the	North/South line	Feet from the	East/West line	County
X ¹ M	36	23N	8W		1177	SOUTH	330	WEST	SAN JUAN

Dedicated Acres 240.67 Acres	S/2 SW/4 Section 31 S/2 S/2 Section 36	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
1177' FSL 330' FWL
SECTION 36, T23N, R8W
LAT: 36.17933 'N
LONG: 107.64035 'W
DATUM: NAD1927

LAT: 36.17935 'N
LONG: 107.64096 'W
DATUM: NAD1983

POINT-OF-ENTRY
1101' FSL 2315' FWL
SECTION 31, T23N, R7W
LAT: 36.17924°N
LONG: 107.61591°W
DATUM: NAD1927

LAT: 36.17926°N
LONG: 107.61651°W
DATUM: NAD1983

SURFACE LOCATION
2192' FSL 2551' FEL
SECTION 31, T23N, R7W
LAT: 36.18202 'N
LONG: 107.61455 'W
DATUM: NAD1927

LAT: 36.18203 'N
LONG: 107.61516 '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 working interest or a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.

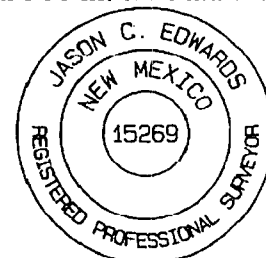
Signature Holly Hill Date 5/22/14
 Printed Name Holly Hill
 E-mail Address holly.hill@encana.com

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.

Date Revised: APRIL 15, 2014
Survey Date: NOVEMBER 12, 2013

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

Lybrook J31-2307 02H
 SHL: NWSE Sec 31 T23N R7W
 2192' FSL, 2551' FEL
 BHL: SWSW Sec 36 T23N R8W
 1177' FSL, 330' FEL
 San Juan and 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
Ojo Alamo Ss.	874
Kirtland Shale	1,069
Fruitland Coal	1,335
Pictured Cliffs Ss.	1,459
Lewis Shale	1,575
Cliffhouse Ss.	2,228
Menefee Fn.	3,018
Point Lookout Ss.	3,843
Mancos Shale	4,025
Mancos Silt	4,545
Gallup Fn.	4,802
Horizontal Target	5,058
Base Gallup	5,132

The referenced surface elevation is 6974', KB 6990'

2. ESTIMATED DEPTH OF POTENTIAL WATER, OIL, GAS, & OTHER MINERAL BEARING FORMATIONS

Substance	Formation	Depth (TVD) units = feet
Water/Gas	Fruitland Coal	1,335
Oil/Gas	Pictured Cliffs Ss.	1,459
Oil/Gas	Cliffhouse Ss.	2,228
Gas	Menefee Fn.	3,018
Oil/Gas	Point Lookout Ss.	3,843
Oil/Gas	Mancos Shale	4,025
Oil/Gas	Mancos Silt	4,545
Oil/Gas	Gallup Fn.	4,802

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

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.

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San Juan and Sandoval, New Mexico

- 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'	30"	20"	94#	
Surface	0'-500'	12 1/4"	9 5/8"	36#	J55, STC New
Intermediate	0'-5400'	8 3/4"	7"	26#	J55, LTC New
Production Liner	5200'-12657'	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

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.

Lybrook J31-2307 02H

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1177' FSL, 330' FEL

San Juan and Sandoval, New Mexico

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'	314 sks	HALCEM™ SYSTEM + 2% CaCl ₂ + 0.125lbm/sk Poly-E-Flake. 15.8 ppg, 1.174 cuft/sk	Surface	1 per joint on bottom 3 joints
Intermediate	0'-5400'	30% open hole excess Stage 1 Lead: 315 sks Stage 1 Tail: 391 sks Stage 2 Lead: 156 sks	Stage 1 Lead: HALCEM™ SYSTEM + 0.2% HR-5 + 5lbm/sk Kol-Seal + 0.125lbm/sk Poly-E-Flake. 12.3 ppg, 1.948 cuft/sk Stage 1 Tail: VARICEM™ CEMENT + .15% CFR-3 + 5lbm/sk Kol-Seal + 0.125% Poly-E-Flake. 13.5 ppg, 1.308 cuft/sk. Stage 2 Contingency: HALCEM™ SYSTEM + 5lbm/sk Kol-Seal + 0.125lbm/sk Poly-E-Flake. 12.3 ppg,	Surface	1 every 3 joints through water bearing zones
Production Liner	5200'-12657'	None - External Casing Packers	N/A	N/A	N/A

*Production liner clarification: Utilizing external swell casing packer system for zonal isolation will not use cement in the production liner

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 2500'. Directional plans are attached.

Description	Proposed Depth (TVD/MD)	Formation
Horizontal Lateral TD	4992'/12657'	Gallup

Lybrook J31-2307 02H

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1177' FSL, 330' FEL

San Juan and 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'-5021'/5400'	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"	5021'/5400'- 4992'/12657'	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 +/- 2367 psi based on a 9.0 ppg at 5058' 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.

Lybrook J31-2307 02H

SHL: NWSE Sec 31 T23N R7W

2192' FSL, 2551' FEL

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San Juan and Sandoval, New Mexico

9. ANTICIPATED START DATE AND DURATION OF OPERATIONS

Drilling is estimated to commence on November 30, 2014. 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: SE/4 SW/4 Sec 31 T23N R7W, 1181'			Encana Natural Gas				ENG: Ashley Lantz 7/2/14		
County: Sandoval			WELL SUMMARY				RIG: Aztec 950		
WELL: Lybrook J31-2307 02H							GLE: 6974		
							RKBE: 6990		
MWD	OPEN HOLE	FORM	DEPTH			HOLE	CASING	MW	DEVIATION
LWD	LOGGING		TVD	MD		SIZE	SPECS	MUD TYPE	INFORMATION
			60	60'					

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 2500'; 8 3/4 inch holesize
- 5) PU directional tools and start curve at 10deg/100' build rate
- 6) Drill to csg point of 5400' MD
- 7) R&C 7" csg, circ cmt to surface, switch to WBM
- 8) Land at 90 deg, drill lateral to 12657' run 4 1/2 inch liner with external swellable csg packers



Boomerang Tube LLC

CASING (OR) TUBING DESCRIPTION AND PERFORMANCE PROPERTIES

Pipe Outside Diameter (ins)	_____	4.500
Pipe Wall Thickness (ins)	_____	0.250
Nominal Weight Per Foot (lbs)	_____	11.60
Thread Name	_____	Long Thread CSG
Grade Name	_____	SB-80
Pipe Minimum Yield (psi)	_____	80,000
Pipe Minimum Ultimate (psi)	_____	90,000
Coupling Minimum Yield (psi)	_____	80,000
Coupling Minimum Ultimate (psi)	_____	100,000
Coupling or Joint Outside Diameter (ins)	_____	5.000
Drift Diameter (ins)	_____	3.875
Plain End Weight per Foot (lbs)	_____	11.36
Joint Strength (lbs)	_____	201,000
Internal Yield (psi)	_____	7,780
Collapse Rating (psi)	_____	6,350

MAXIMUM DEPTH/LENGTH BASED ON MUD WTS & SAFETY FACTORS

Drilling Mud Weight (ppg)	_____	9.625
Tension Safety Factor	_____	1.80
Maximum Tension Length (ft)	_____	9,630
Internal Yield Safety Factor	_____	1.10
Maximum Depth for Internal Yield (ft)	_____	14,150
Collapse Safety Factor	_____	1.125
Maximum Collapse Depth (ft)	_____	11,290

API RELATED VALUES and INTERMEDIATE CALCULATION RESULTS

Coupling Thread Fracture Strength	_____	464,000
Pipe Thread Fracture Strength (lbs)	_____	201,000
Pipe Body Plain End Yield (lbs)	_____	267,000
Round Thread Pull-Out (lbs)	_____	219,000
Minimum Make-up Torque (ft-lbs)	_____	1,640
Nominal Make-up Torque (ft-lbs)	_____	2,190
Maximum Make-up Torque (ft-lbs)	_____	2,740
Coupling Internal Yield (psi)	_____	10,660
Pipe Body Internal Yield (psi)	_____	7,780
Leak @ E1 or E7 plane (psi)	_____	17,920
Pipe Hydrostatic Test Pressure @ 80 % SMYS	_____	7,100



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook J31-2307 02H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6990.0ft (Original Well Elev)
Project:	Sandoval County, NM	MD Reference:	WELL @ 6990.0ft (Original Well Elev)
Site:	S31-T23N-R7W	North Reference:	True
Well:	Lybrook J31-2307 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						S31-T23N-R7W						
Site Position:			Northing:		1,890,125.34 ft		Latitude:		36.186880			
From:		Lat/Long		Easting:		1,237,740.16 ft		Longitude:		-107.614590		
Position Uncertainty:			0.0 ft		Slot Radius:		13.200 in		Grid Convergence:		-0.81 °	

Well		Lybrook J31-2307 02H				
Well Position	+N/-S	0.0 ft	Northing:	1,888,362.09 ft	Latitude:	36.182030
	+E/-W	0.0 ft	Easting:	1,237,547.11 ft	Longitude:	-107.615160
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	6,974.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/4/2014	9.44	62.95	50,169

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	270.23

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	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,946.4	28.93	179.46	3,885.7	-357.4	3.4	2.00	2.00	0.00	179.46	
4,704.8	28.93	179.46	4,549.5	-724.3	6.8	0.00	0.00	0.00	0.00	
5,612.9	90.50	270.23	5,053.1	-1,003.0	-571.7	10.00	6.78	10.00	90.43	
12,656.9	90.50	270.23	4,991.6	-974.7	-7,615.3	0.00	0.00	0.00	0.00	Lybrook J31-2307 02H

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook J31-2307 02H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6990.0ft (Original Well Elev)
Project:	Sandoval County, NM	MD Reference:	WELL @ 6990.0ft (Original Well Elev)
Site:	S31-T23N-R7W	North Reference:	True
Well:	Lybrook J31-2307 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	
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	
874.0	0.00	0.00	874.0	0.0	0.0	0.0	0.00	0.00	Ojo Alamo
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	
1,069.0	0.00	0.00	1,069.0	0.0	0.0	0.0	0.00	0.00	Kirtland Shale
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	
1,335.0	0.00	0.00	1,335.0	0.0	0.0	0.0	0.00	0.00	Fruitland Coal
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	
1,459.0	0.00	0.00	1,459.0	0.0	0.0	0.0	0.00	0.00	Pictured Cliffs Ss.
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	
1,575.0	0.00	0.00	1,575.0	0.0	0.0	0.0	0.00	0.00	Lewis Shale
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	
1,900.0	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	
2,228.0	0.00	0.00	2,228.0	0.0	0.0	0.0	0.00	0.00	Cliffhouse Ss.
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	KOP @ 2500'
2,600.0	2.00	179.46	2,600.0	-1.7	0.0	0.0	2.00	2.00	
2,700.0	4.00	179.46	2,699.8	-7.0	0.1	-0.1	2.00	2.00	
2,800.0	6.00	179.46	2,799.5	-15.7	0.1	-0.2	2.00	2.00	
2,900.0	8.00	179.46	2,898.7	-27.9	0.3	-0.4	2.00	2.00	
3,000.0	10.00	179.46	2,997.5	-43.5	0.4	-0.6	2.00	2.00	
3,020.9	10.42	179.46	3,018.0	-47.2	0.4	-0.6	2.00	2.00	Menefee Fn.
3,100.0	12.00	179.46	3,095.6	-62.6	0.6	-0.8	2.00	2.00	
3,200.0	14.00	179.46	3,193.1	-85.1	0.8	-1.1	2.00	2.00	
3,300.0	16.00	179.46	3,289.6	-111.0	1.0	-1.5	2.00	2.00	
3,400.0	18.00	179.46	3,385.3	-140.2	1.3	-1.9	2.00	2.00	
3,500.0	20.00	179.46	3,479.8	-172.8	1.6	-2.3	2.00	2.00	
3,600.0	22.00	179.46	3,573.2	-208.6	2.0	-2.8	2.00	2.00	
3,700.0	24.00	179.46	3,665.2	-247.7	2.3	-3.3	2.00	2.00	
3,800.0	26.00	179.46	3,755.8	-289.9	2.7	-3.9	2.00	2.00	
3,897.9	27.96	179.46	3,843.0	-334.3	3.1	-4.5	2.00	2.00	Point Lookout Ss.
3,900.0	28.00	179.46	3,844.9	-335.3	3.1	-4.5	1.99	1.99	
3,946.4	28.93	179.46	3,885.7	-357.4	3.4	-4.8	2.00	2.00	EOB; Inc=28.9°
4,000.0	28.93	179.46	3,932.6	-383.4	3.6	-5.1	0.00	0.00	
4,100.0	28.93	179.46	4,020.2	-431.7	4.0	-5.8	0.00	0.00	
4,105.6	28.93	179.46	4,025.1	-434.4	4.1	-5.8	0.00	0.00	Mancos Shale

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook J31-2307 02H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6990.0ft (Original Well Elev)
Project:	Sandoval County, NM	MD Reference:	WELL @ 6990.0ft (Original Well Elev)
Site:	S31-T23N-R7W	North Reference:	True
Well:	Lybrook J31-2307 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
4,200.0	28.93	179.46	4,107.7	-480.1	4.5	-6.4	0.00	0.00	
4,300.0	28.93	179.46	4,195.2	-528.5	5.0	-7.1	0.00	0.00	
4,400.0	28.93	179.46	4,282.7	-576.8	5.4	-7.7	0.00	0.00	
4,500.0	28.93	179.46	4,370.3	-625.2	5.9	-8.4	0.00	0.00	
4,600.0	28.93	179.46	4,457.8	-673.6	6.3	-9.0	0.00	0.00	
4,699.8	28.93	179.46	4,545.1	-721.8	6.8	-9.7	0.00	0.00	Mancos Silt
4,700.0	28.93	179.46	4,545.3	-721.9	6.8	-9.7	0.00	0.00	
4,704.8	28.93	179.46	4,549.5	-724.3	6.8	-9.7	0.00	0.00	Start build/turn @ 4704' MD
4,800.0	30.26	198.62	4,632.5	-770.1	-0.7	-2.4	10.00	1.40	
4,900.0	34.29	215.83	4,717.2	-817.0	-25.3	22.0	10.00	4.04	
5,000.0	40.23	229.17	4,796.9	-861.0	-66.3	62.8	10.00	5.94	
5,006.0	40.63	229.86	4,801.4	-863.5	-69.2	65.8	10.02	6.67	Gallup Fn.
5,100.0	47.35	239.35	4,869.1	-901.0	-122.5	118.9	10.00	7.15	
5,200.0	55.18	247.35	4,931.7	-935.6	-192.2	188.5	10.00	7.83	
5,300.0	63.44	253.92	4,982.7	-963.9	-273.3	269.4	10.00	8.26	
5,400.0	71.96	259.58	5,020.7	-984.9	-363.2	359.3	10.00	8.52	7" ICP
5,500.0	80.63	264.72	5,044.3	-998.1	-459.4	455.3	10.00	8.67	
5,600.0	89.37	269.60	5,053.1	-1,003.0	-558.7	554.7	10.00	8.74	
5,607.4	90.02	269.96	5,053.1	-1,003.0	-566.1	562.1	10.02	8.77	Horizontal Target
5,612.9	90.50	270.23	5,053.1	-1,003.0	-571.7	567.6	10.00	8.75	LP @ 5053' TVD; 90.5°
5,700.0	90.50	270.23	5,052.3	-1,002.7	-658.7	654.7	0.00	0.00	
5,800.0	90.50	270.23	5,051.4	-1,002.3	-758.7	754.7	0.00	0.00	
5,900.0	90.50	270.23	5,050.6	-1,001.9	-858.7	854.7	0.00	0.00	
6,000.0	90.50	270.23	5,049.7	-1,001.5	-958.7	954.7	0.00	0.00	
6,100.0	90.50	270.23	5,048.8	-1,001.1	-1,058.7	1,054.7	0.00	0.00	
6,200.0	90.50	270.23	5,047.9	-1,000.7	-1,158.7	1,154.7	0.00	0.00	
6,300.0	90.50	270.23	5,047.1	-1,000.3	-1,258.7	1,254.7	0.00	0.00	
6,400.0	90.50	270.23	5,046.2	-999.9	-1,358.7	1,354.7	0.00	0.00	
6,500.0	90.50	270.23	5,045.3	-999.5	-1,458.7	1,454.7	0.00	0.00	
6,600.0	90.50	270.23	5,044.5	-999.1	-1,558.7	1,554.7	0.00	0.00	
6,700.0	90.50	270.23	5,043.6	-998.7	-1,658.7	1,654.7	0.00	0.00	
6,800.0	90.50	270.23	5,042.7	-998.2	-1,758.7	1,754.7	0.00	0.00	
6,900.0	90.50	270.23	5,041.8	-997.8	-1,858.7	1,854.7	0.00	0.00	
7,000.0	90.50	270.23	5,041.0	-997.4	-1,958.7	1,954.6	0.00	0.00	
7,100.0	90.50	270.23	5,040.1	-997.0	-2,058.7	2,054.6	0.00	0.00	
7,200.0	90.50	270.23	5,039.2	-996.6	-2,158.7	2,154.6	0.00	0.00	
7,300.0	90.50	270.23	5,038.3	-996.2	-2,258.7	2,254.6	0.00	0.00	
7,400.0	90.50	270.23	5,037.5	-995.8	-2,358.7	2,354.6	0.00	0.00	
7,500.0	90.50	270.23	5,036.6	-995.4	-2,458.6	2,454.6	0.00	0.00	
7,600.0	90.50	270.23	5,035.7	-995.0	-2,558.6	2,554.6	0.00	0.00	
7,700.0	90.50	270.23	5,034.9	-994.6	-2,658.6	2,654.6	0.00	0.00	
7,800.0	90.50	270.23	5,034.0	-994.2	-2,758.6	2,754.6	0.00	0.00	
7,900.0	90.50	270.23	5,033.1	-993.8	-2,858.6	2,854.6	0.00	0.00	
8,000.0	90.50	270.23	5,032.2	-993.4	-2,958.6	2,954.6	0.00	0.00	
8,100.0	90.50	270.23	5,031.4	-993.0	-3,058.6	3,054.6	0.00	0.00	
8,200.0	90.50	270.23	5,030.5	-992.6	-3,158.6	3,154.6	0.00	0.00	
8,300.0	90.50	270.23	5,029.6	-992.2	-3,258.6	3,254.6	0.00	0.00	
8,400.0	90.50	270.23	5,028.7	-991.8	-3,358.6	3,354.6	0.00	0.00	
8,500.0	90.50	270.23	5,027.9	-991.4	-3,458.6	3,454.6	0.00	0.00	
8,600.0	90.50	270.23	5,027.0	-991.0	-3,558.6	3,554.6	0.00	0.00	
8,700.0	90.50	270.23	5,026.1	-990.6	-3,658.6	3,654.6	0.00	0.00	
8,800.0	90.50	270.23	5,025.3	-990.2	-3,758.6	3,754.6	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook J31-2307 02H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6990.0ft (Original Well Elev)
Project:	Sandoval County, NM	MD Reference:	WELL @ 6990.0ft (Original Well Elev)
Site:	S31-T23N-R7W	North Reference:	True
Well:	Lybrook J31-2307 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	90.50	270.23	5,024.4	-989.8	-3,858.6	3,854.6	0.00	0.00	
9,000.0	90.50	270.23	5,023.5	-989.4	-3,958.6	3,954.6	0.00	0.00	
9,100.0	90.50	270.23	5,022.6	-989.0	-4,058.6	4,054.6	0.00	0.00	
9,200.0	90.50	270.23	5,021.8	-988.6	-4,158.6	4,154.6	0.00	0.00	
9,300.0	90.50	270.23	5,020.9	-988.2	-4,258.6	4,254.6	0.00	0.00	
9,400.0	90.50	270.23	5,020.0	-987.8	-4,358.6	4,354.6	0.00	0.00	
9,500.0	90.50	270.23	5,019.1	-987.4	-4,458.6	4,454.6	0.00	0.00	
9,600.0	90.50	270.23	5,018.3	-987.0	-4,558.6	4,554.6	0.00	0.00	
9,700.0	90.50	270.23	5,017.4	-986.6	-4,658.5	4,654.6	0.00	0.00	
9,800.0	90.50	270.23	5,016.5	-986.2	-4,758.5	4,754.5	0.00	0.00	
9,900.0	90.50	270.23	5,015.7	-985.8	-4,858.5	4,854.5	0.00	0.00	
10,000.0	90.50	270.23	5,014.8	-985.4	-4,958.5	4,954.5	0.00	0.00	
10,100.0	90.50	270.23	5,013.9	-985.0	-5,058.5	5,054.5	0.00	0.00	
10,200.0	90.50	270.23	5,013.0	-984.6	-5,158.5	5,154.5	0.00	0.00	
10,300.0	90.50	270.23	5,012.2	-984.2	-5,258.5	5,254.5	0.00	0.00	
10,400.0	90.50	270.23	5,011.3	-983.8	-5,358.5	5,354.5	0.00	0.00	
10,500.0	90.50	270.23	5,010.4	-983.4	-5,458.5	5,454.5	0.00	0.00	
10,600.0	90.50	270.23	5,009.5	-983.0	-5,558.5	5,554.5	0.00	0.00	
10,700.0	90.50	270.23	5,008.7	-982.6	-5,658.5	5,654.5	0.00	0.00	
10,800.0	90.50	270.23	5,007.8	-982.2	-5,758.5	5,754.5	0.00	0.00	
10,900.0	90.50	270.23	5,006.9	-981.8	-5,858.5	5,854.5	0.00	0.00	
11,000.0	90.50	270.23	5,006.1	-981.4	-5,958.5	5,954.5	0.00	0.00	
11,100.0	90.50	270.23	5,005.2	-981.0	-6,058.5	6,054.5	0.00	0.00	
11,200.0	90.50	270.23	5,004.3	-980.6	-6,158.5	6,154.5	0.00	0.00	
11,300.0	90.50	270.23	5,003.4	-980.2	-6,258.5	6,254.5	0.00	0.00	
11,400.0	90.50	270.23	5,002.6	-979.8	-6,358.5	6,354.5	0.00	0.00	
11,500.0	90.50	270.23	5,001.7	-979.4	-6,458.5	6,454.5	0.00	0.00	
11,600.0	90.50	270.23	5,000.8	-979.0	-6,558.5	6,554.5	0.00	0.00	
11,700.0	90.50	270.23	5,000.0	-978.6	-6,658.5	6,654.5	0.00	0.00	
11,800.0	90.50	270.23	4,999.1	-978.2	-6,758.5	6,754.5	0.00	0.00	
11,900.0	90.50	270.23	4,998.2	-977.8	-6,858.5	6,854.5	0.00	0.00	
12,000.0	90.50	270.23	4,997.3	-977.4	-6,958.4	6,954.5	0.00	0.00	
12,100.0	90.50	270.23	4,996.5	-977.0	-7,058.4	7,054.5	0.00	0.00	
12,200.0	90.50	270.23	4,995.6	-976.6	-7,158.4	7,154.5	0.00	0.00	
12,300.0	90.50	270.23	4,994.7	-976.2	-7,258.4	7,254.5	0.00	0.00	
12,400.0	90.50	270.23	4,993.8	-975.8	-7,358.4	7,354.5	0.00	0.00	
12,500.0	90.50	270.23	4,993.0	-975.4	-7,458.4	7,454.5	0.00	0.00	
12,600.0	90.50	270.23	4,992.1	-975.0	-7,558.4	7,554.4	0.00	0.00	
12,656.9	90.50	270.23	4,991.6	-974.7	-7,615.3	7,611.4	0.00	0.00	TD at 12656.9

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook J31-2307 02H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6990.0ft (Original Well Elev)
Project:	Sandoval County, NM	MD Reference:	WELL @ 6990.0ft (Original Well Elev)
Site:	S31-T23N-R7W	North Reference:	True
Well:	Lybrook J31-2307 02H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

Targets									
Target Name	- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	
- Shape		(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	Latitude Longitude
Lybrook J31-2307 02H F	- plan misses target center by 4.7ft at 10047.5ft MD (5014.4 TVD, -985.2 N, -5006.0 E)	0.00	0.00	5,014.3	-989.9	-5,006.0	1,887,442.74	1,232,527.64	36.179310 -107.632120
- Point									
Lybrook J31-2307 02H F	- plan misses target center by 28.1ft at 5445.1ft MD (5033.2 TVD, -991.9 N, -406.0 E)	0.00	0.00	5,054.5	-1,008.5	-398.5	1,887,359.29	1,237,134.49	36.179260 -107.616510
- Point									
Lybrook J31-2307 02H F	- plan hits target center	0.00	0.00	4,991.6	-974.7	-7,615.3	1,887,494.58	1,229,918.82	36.179350 -107.640960
- Point									

Casing Points				
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter
(ft)	(ft)		(in)	(in)
500.0	500.0	9 5/8"	0.000	0.000
5,400.0	5,020.7	7" ICP	0.000	0.000

Formations					
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(ft)	(ft)			(°)	(°)
874.0	874.0	Ojo Alamo		-0.50	270.23
1,069.0	1,069.0	Kirtland Shale		-0.50	270.23
1,335.0	1,335.0	Fruitland Coal		-0.50	270.23
1,459.0	1,459.0	Pictured Cliffs Ss.		-0.50	270.23
1,575.0	1,575.0	Lewis Shale		-0.50	270.23
2,228.0	2,228.0	Cliffhouse Ss.		-0.50	270.23
3,020.9	3,018.0	Menefee Fn.		-0.50	270.23
3,897.9	3,843.0	Point Lookout Ss.		-0.50	270.23
4,105.6	4,025.0	Mancos Shale		-0.50	270.23
4,699.8	4,545.0	Mancos Silt		-0.50	270.23
5,006.0	4,802.0	Gallup Fn.		-0.50	270.23
5,607.4	5,058.0	Horizontal Target		-0.50	270.23

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
2,500.0	2,500.0	0.0	0.0	KOP @ 2500'
3,946.4	3,885.7	-357.4	3.4	EOB; Inc=28.9°
4,704.8	4,549.5	-724.3	6.8	Start build/turn @ 4704' MD
5,612.9	5,053.1	-1,003.0	-571.7	LP @ 5053' TVD; 90.5°
12,656.9	4,991.6	-974.7	-7,615.3	TD at 12656.9

EnCana Oil & Gas (USA) Inc

Sandoval County, NM

S31-T23N-R7W

Lybrook J31-2307 02H

Hz

Plan #3

Anticollision Report

05 June, 2014

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook J31-2307 02H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 6990.0ft (Original Well Elev)
Reference Site:	S31-T23N-R7W	MD Reference:	WELL @ 6990.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Lybrook J31-2307 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 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	6/5/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	12,656.9	Plan #3 (Hz)	Geolink 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
S31-T23N-R7W						
Lybrook G31-2307 01H - Hz - Plan #3						Out of range
Lybrook G31-2307 02H - Hz - Plan #3						Out of range
Lybrook G31-2307 03H - Hz - Plan #3						Out of range
Lybrook J31-2307 01H - Hz - Plan #2	2,500.0	2,500.0	30.1	21.4	3.468	CC, ES
Lybrook J31-2307 01H - Hz - Plan #2	12,656.9	12,454.1	939.6	562.7	2.493	SF
Lybrook P31-2307 01H - Hz - Plan #1						Out of range
Lybrook P31-2307 03H - Hz - Plan #1						Out of range

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook J31-2307 02H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 6990.0ft (Original Well Elev)
Reference Site:	S31-T23N-R7W	MD Reference:	WELL @ 6990.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Lybrook J31-2307 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 S31-T23N-R7W - Lybrook J31-2307 01H - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	43.40	21.8	20.7	30.1				
100.0	100.0	100.0	100.0	0.1	0.1	43.40	21.8	20.7	30.1	29.8	0.29	102.545	
200.0	200.0	200.0	200.0	0.3	0.3	43.40	21.8	20.7	30.1	29.4	0.64	46.814	
300.0	300.0	300.0	300.0	0.5	0.5	43.40	21.8	20.7	30.1	29.1	0.99	30.330	
400.0	400.0	400.0	400.0	0.7	0.7	43.40	21.8	20.7	30.1	28.7	1.34	22.432	
500.0	500.0	500.0	500.0	0.8	0.8	43.40	21.8	20.7	30.1	28.4	1.69	17.797	
600.0	600.0	600.0	600.0	1.0	1.0	43.40	21.8	20.7	30.1	28.0	2.04	14.750	
700.0	700.0	700.0	700.0	1.2	1.2	43.40	21.8	20.7	30.1	27.7	2.39	12.593	
800.0	800.0	800.0	800.0	1.4	1.4	43.40	21.8	20.7	30.1	27.3	2.74	10.987	
900.0	900.0	900.0	900.0	1.5	1.5	43.40	21.8	20.7	30.1	27.0	3.09	9.744	
1,000.0	1,000.0	1,000.0	1,000.0	1.7	1.7	43.40	21.8	20.7	30.1	26.6	3.43	8.754	
1,100.0	1,100.0	1,100.0	1,100.0	1.9	1.9	43.40	21.8	20.7	30.1	26.3	3.78	7.946	
1,200.0	1,200.0	1,200.0	1,200.0	2.1	2.1	43.40	21.8	20.7	30.1	25.9	4.13	7.275	
1,300.0	1,300.0	1,300.0	1,300.0	2.2	2.2	43.40	21.8	20.7	30.1	25.6	4.48	6.709	
1,400.0	1,400.0	1,400.0	1,400.0	2.4	2.4	43.40	21.8	20.7	30.1	25.2	4.83	6.224	
1,500.0	1,500.0	1,500.0	1,500.0	2.6	2.6	43.40	21.8	20.7	30.1	24.9	5.18	5.804	
1,600.0	1,600.0	1,600.0	1,600.0	2.8	2.8	43.40	21.8	20.7	30.1	24.5	5.53	5.438	
1,700.0	1,700.0	1,700.0	1,700.0	2.9	2.9	43.40	21.8	20.7	30.1	24.2	5.88	5.115	
1,800.0	1,800.0	1,800.0	1,800.0	3.1	3.1	43.40	21.8	20.7	30.1	23.8	6.23	4.828	
1,900.0	1,900.0	1,900.0	1,900.0	3.3	3.3	43.40	21.8	20.7	30.1	23.5	6.58	4.572	
2,000.0	2,000.0	2,000.0	2,000.0	3.5	3.5	43.40	21.8	20.7	30.1	23.1	6.93	4.342	
2,100.0	2,100.0	2,100.0	2,100.0	3.6	3.6	43.40	21.8	20.7	30.1	22.8	7.27	4.133	
2,200.0	2,200.0	2,200.0	2,200.0	3.8	3.8	43.40	21.8	20.7	30.1	22.4	7.62	3.944	
2,300.0	2,300.0	2,300.0	2,300.0	4.0	4.0	43.40	21.8	20.7	30.1	22.1	7.97	3.771	
2,400.0	2,400.0	2,400.0	2,400.0	4.2	4.2	43.40	21.8	20.7	30.1	21.7	8.32	3.613	
2,500.0	2,500.0	2,500.0	2,500.0	4.3	4.3	43.40	21.8	20.7	30.1	21.4	8.67	3.468 CC, ES	
2,600.0	2,600.0	2,600.0	2,600.0	4.5	4.5	-138.26	21.8	20.7	31.3	22.3	9.02	3.476	
2,700.0	2,699.8	2,699.8	2,699.8	4.7	4.7	-143.85	21.8	20.7	35.4	26.1	9.36	3.785	
2,800.0	2,799.5	2,799.5	2,799.5	4.9	4.9	-150.67	21.8	20.7	42.8	33.1	9.69	4.413	
2,900.0	2,898.7	2,898.7	2,898.7	5.1	5.0	-156.96	21.8	20.7	53.7	43.7	10.02	5.365	
3,000.0	2,997.5	2,997.5	2,997.5	5.3	5.2	-161.99	21.8	20.7	68.4	58.1	10.33	6.624	
3,100.0	3,095.6	3,095.6	3,095.6	5.5	5.4	-165.79	21.8	20.7	86.8	76.2	10.63	8.164	
3,200.0	3,193.1	3,193.1	3,193.1	5.8	5.5	-168.61	21.8	20.7	108.8	97.8	10.92	9.959	
3,300.0	3,289.6	3,289.6	3,289.6	6.1	5.7	-170.71	21.8	20.7	134.3	123.1	11.20	11.987	
3,400.0	3,385.3	3,385.3	3,385.3	6.5	5.9	-172.28	21.8	20.7	163.2	151.7	11.47	14.232	
3,500.0	3,479.8	3,479.8	3,479.8	6.9	6.0	-173.48	21.8	20.7	195.5	183.8	11.72	16.681	
3,600.0	3,573.2	3,573.2	3,573.2	7.4	6.2	-174.42	21.8	20.7	231.2	219.2	11.96	19.323	
3,700.0	3,665.2	3,665.2	3,665.2	8.0	6.4	-175.15	21.8	20.7	270.1	257.9	12.20	22.151	
3,800.0	3,755.8	3,755.8	3,755.8	8.6	6.5	-175.74	21.8	20.7	312.3	299.9	12.41	25.159	
3,900.0	3,844.9	3,844.9	3,844.9	9.2	6.7	-176.21	21.8	20.7	357.6	345.0	12.62	28.342	
4,000.0	3,932.6	3,932.6	3,932.6	9.9	6.8	-176.63	21.8	20.7	405.6	392.7	12.88	31.483	
4,100.0	4,020.2	4,020.2	4,020.2	10.7	7.0	-176.99	21.8	20.7	453.9	440.7	13.21	34.365	
4,200.0	4,107.7	4,107.7	4,107.7	11.4	7.1	-177.28	21.8	20.7	502.2	488.7	13.53	37.110	
4,300.0	4,195.2	4,195.2	4,195.2	12.2	7.3	-177.52	21.8	20.7	550.5	536.7	13.86	39.727	
4,400.0	4,282.7	4,282.7	4,282.7	13.0	7.4	-177.72	21.8	20.7	598.9	584.7	14.18	42.225	
4,500.0	4,370.3	4,370.3	4,370.3	13.8	7.6	-177.89	21.8	20.7	647.2	632.7	14.51	44.613	
4,600.0	4,457.8	4,557.7	4,556.8	14.6	7.9	-178.40	8.5	17.9	689.3	674.3	14.99	45.971	
4,700.0	4,545.3	4,650.0	4,646.7	15.4	8.1	-179.85	-4.4	1.8	724.7	709.4	15.34	47.254	
4,800.0	4,632.5	4,737.6	4,728.5	16.2	8.3	158.04	-16.1	-26.8	760.6	744.7	15.92	47.765	
4,900.0	4,717.2	4,823.0	4,803.3	17.0	8.7	138.36	-26.7	-66.6	796.0	779.0	17.03	46.737	
5,000.0	4,796.9	4,907.2	4,870.5	17.8	9.1	123.24	-36.2	-116.2	829.6	811.0	18.58	44.650	
5,100.0	4,869.1	4,990.6	4,929.3	18.6	9.8	112.07	-44.5	-174.8	860.2	839.7	20.45	42.060	

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook J31-2307 02H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 6990.0ft (Original Well Elev)
Reference Site:	S31-T23N-R7W	MD Reference:	WELL @ 6990.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Lybrook J31-2307 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 S31-T23N-R7W - Lybrook J31-2307 01H - Hz - Plan #2														Offset Site Error:	0.0 ft
Survey Program: 0-Geolink 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			
5,200.0	4,931.7	5,073.7	4,978.9	19.4	10.7	103.96	-51.5	-241.0	886.8	864.2	22.56	39.303			
5,300.0	4,982.7	5,156.8	5,018.4	20.3	11.8	98.18	-56.9	-313.7	908.6	883.7	24.87	36.538			
5,400.0	5,020.7	5,239.9	5,047.1	21.3	13.2	94.27	-60.9	-391.5	924.9	897.5	27.36	33.802			
5,500.0	5,044.3	5,323.0	5,064.5	22.4	14.8	91.95	-63.1	-472.7	935.3	905.3	30.00	31.174			
5,600.0	5,053.1	5,406.1	5,070.0	23.5	16.4	91.04	-63.7	-555.5	939.5	906.8	32.71	28.723			
5,700.0	5,052.3	5,505.6	5,069.1	24.8	18.6	91.03	-63.3	-655.1	939.5	902.7	36.83	25.510			
5,800.0	5,051.4	5,605.6	5,068.3	26.3	20.8	91.03	-62.9	-755.1	939.5	898.3	41.25	22.775			
5,900.0	5,050.6	5,705.6	5,067.4	28.0	23.1	91.03	-62.5	-855.1	939.5	893.7	45.78	20.521			
6,000.0	5,049.7	5,805.6	5,066.5	29.8	25.4	91.03	-62.1	-955.1	939.5	889.1	50.39	18.643			
6,100.0	5,048.8	5,905.6	5,065.6	31.7	27.7	91.03	-61.7	-1,055.1	939.5	884.5	55.06	17.063			
6,200.0	5,047.9	6,005.6	5,064.8	33.6	30.1	91.03	-61.3	-1,155.1	939.5	879.8	59.78	15.717			
6,300.0	5,047.1	6,105.6	5,063.9	35.7	32.4	91.03	-60.9	-1,255.1	939.5	875.0	64.52	14.561			
6,400.0	5,046.2	6,205.6	5,063.0	37.8	34.8	91.03	-60.5	-1,355.1	939.5	870.2	69.30	13.557			
6,500.0	5,045.3	6,305.6	5,062.2	40.0	37.2	91.03	-60.1	-1,455.1	939.5	865.4	74.10	12.679			
6,600.0	5,044.5	6,405.6	5,061.3	42.2	39.6	91.03	-59.7	-1,555.1	939.5	860.6	78.92	11.905			
6,700.0	5,043.6	6,505.6	5,060.4	44.4	42.1	91.03	-59.3	-1,655.0	939.5	855.8	83.75	11.218			
6,800.0	5,042.7	6,605.6	5,059.5	46.7	44.5	91.03	-58.9	-1,755.0	939.5	850.9	88.60	10.605			
6,900.0	5,041.8	6,705.6	5,058.7	48.9	46.9	91.03	-58.5	-1,855.0	939.5	846.1	93.45	10.054			
7,000.0	5,041.0	6,805.6	5,057.8	51.3	49.3	91.03	-58.1	-1,955.0	939.5	841.2	98.32	9.556			
7,100.0	5,040.1	6,905.6	5,056.9	53.6	51.8	91.03	-57.7	-2,055.0	939.5	836.3	103.19	9.105			
7,200.0	5,039.2	7,005.6	5,056.0	55.9	54.2	91.03	-57.3	-2,155.0	939.5	831.5	108.07	8.694			
7,300.0	5,038.3	7,105.6	5,055.2	58.3	56.7	91.03	-56.9	-2,255.0	939.5	826.6	112.96	8.318			
7,400.0	5,037.5	7,205.6	5,054.3	60.6	59.1	91.03	-56.5	-2,355.0	939.5	821.7	117.85	7.972			
7,500.0	5,036.6	7,305.6	5,053.4	63.0	61.6	91.03	-56.1	-2,455.0	939.5	816.8	122.74	7.655			
7,600.0	5,035.7	7,405.6	5,052.6	65.4	64.0	91.03	-55.7	-2,555.0	939.5	811.9	127.64	7.361			
7,700.0	5,034.9	7,505.6	5,051.7	67.7	66.5	91.03	-55.3	-2,655.0	939.5	807.0	132.54	7.088			
7,800.0	5,034.0	7,605.6	5,050.8	70.1	68.9	91.03	-54.9	-2,755.0	939.5	802.1	137.45	6.835			
7,900.0	5,033.1	7,705.6	5,049.9	72.5	71.4	91.03	-54.5	-2,855.0	939.5	797.2	142.36	6.600			
8,000.0	5,032.2	7,805.6	5,049.1	74.9	73.8	91.03	-54.1	-2,955.0	939.5	792.3	147.27	6.380			
8,100.0	5,031.4	7,905.6	5,048.2	77.3	76.3	91.03	-53.7	-3,055.0	939.5	787.3	152.19	6.174			
8,200.0	5,030.5	8,005.6	5,047.3	79.8	78.7	91.03	-53.3	-3,155.0	939.5	782.4	157.10	5.980			
8,300.0	5,029.6	8,105.6	5,046.4	82.2	81.2	91.03	-52.9	-3,255.0	939.5	777.5	162.02	5.799			
8,400.0	5,028.7	8,205.6	5,045.6	84.6	83.7	91.03	-52.5	-3,355.0	939.5	772.6	166.94	5.628			
8,500.0	5,027.9	8,305.6	5,044.7	87.0	86.1	91.03	-52.1	-3,455.0	939.5	767.7	171.86	5.467			
8,600.0	5,027.0	8,405.6	5,043.8	89.4	88.6	91.03	-51.7	-3,555.0	939.5	762.7	176.78	5.315			
8,700.0	5,026.1	8,505.6	5,043.0	91.9	91.0	91.03	-51.3	-3,655.0	939.5	757.8	181.71	5.171			
8,800.0	5,025.3	8,605.6	5,042.1	94.3	93.5	91.03	-50.9	-3,754.9	939.5	752.9	186.63	5.034			
8,900.0	5,024.4	8,705.6	5,041.2	96.7	96.0	91.03	-50.5	-3,854.9	939.5	748.0	191.56	4.905			
9,000.0	5,023.5	8,805.6	5,040.3	99.2	98.4	91.03	-50.0	-3,954.9	939.5	743.0	196.49	4.782			
9,100.0	5,022.6	8,905.6	5,039.5	101.6	100.9	91.03	-49.6	-4,054.9	939.5	738.1	201.42	4.665			
9,200.0	5,021.8	9,005.6	5,038.6	104.0	103.4	91.03	-49.2	-4,154.9	939.5	733.2	206.35	4.553			
9,300.0	5,020.9	9,105.6	5,037.7	106.5	105.8	91.03	-48.8	-4,254.9	939.5	728.2	211.28	4.447			
9,400.0	5,020.0	9,205.6	5,036.8	108.9	108.3	91.03	-48.4	-4,354.9	939.5	723.3	216.21	4.345			
9,500.0	5,019.1	9,305.6	5,036.0	111.4	110.8	91.03	-48.0	-4,454.9	939.5	718.4	221.14	4.249			
9,600.0	5,018.3	9,405.6	5,035.1	113.8	113.2	91.03	-47.6	-4,554.9	939.5	713.5	226.07	4.156			
9,700.0	5,017.4	9,505.6	5,034.2	116.3	115.7	91.03	-47.2	-4,654.9	939.5	708.5	231.01	4.067			
9,800.0	5,016.5	9,605.6	5,033.4	118.7	118.2	91.03	-46.8	-4,754.9	939.5	703.6	235.94	3.982			
9,900.0	5,015.7	9,705.6	5,032.5	121.2	120.6	91.03	-46.4	-4,854.9	939.5	698.7	240.88	3.900			
10,000.0	5,014.8	9,805.6	5,031.6	123.6	123.1	91.03	-46.0	-4,954.9	939.5	693.7	245.81	3.822			
10,100.0	5,013.9	9,905.6	5,030.7	126.1	125.6	91.03	-45.6	-5,054.9	939.5	688.8	250.75	3.747			
10,200.0	5,013.0	10,005.6	5,029.9	128.5	128.0	91.03	-45.2	-5,154.9	939.5	683.8	255.68	3.675			
10,300.0	5,012.2	10,105.6	5,029.0	131.0	130.5	91.03	-44.8	-5,254.9	939.5	678.9	260.62	3.605			

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 J31-2307 02H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 6990.0ft (Original Well Elev)
Reference Site:	S31-T23N-R7W	MD Reference:	WELL @ 6990.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Lybrook J31-2307 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 S31-T23N-R7W - Lybrook J31-2307 01H - Hz - Plan #2													Offset Site Error: 0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft
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)	Total Uncertainty Axis	Separation Factor	Warning
10,400.0	5,011.3	10,205.6	5,028.1	133.4	133.0	91.03	-44.4	-5,354.9	939.5	674.0	265.56	3.538	
10,500.0	5,010.4	10,305.6	5,027.2	135.9	135.4	91.03	-44.0	-5,454.9	939.5	669.0	270.49	3.473	
10,600.0	5,009.5	10,405.6	5,026.4	138.3	137.9	91.03	-43.6	-5,554.9	939.5	664.1	275.43	3.411	
10,700.0	5,008.7	10,505.6	5,025.5	140.8	140.4	91.03	-43.2	-5,654.9	939.5	659.2	280.37	3.351	
10,800.0	5,007.8	10,605.6	5,024.6	143.2	142.9	91.03	-42.8	-5,754.9	939.5	654.2	285.31	3.293	
10,900.0	5,006.9	10,705.6	5,023.8	145.7	145.3	91.03	-42.4	-5,854.9	939.5	649.3	290.25	3.237	
11,000.0	5,006.1	10,805.6	5,022.9	148.2	147.8	91.03	-42.0	-5,954.8	939.5	644.3	295.18	3.183	
11,100.0	5,005.2	10,905.6	5,022.0	150.6	150.3	91.03	-41.6	-6,054.8	939.5	639.4	300.12	3.130	
11,200.0	5,004.3	11,005.6	5,021.1	153.1	152.7	91.03	-41.2	-6,154.8	939.5	634.5	305.06	3.080	
11,300.0	5,003.4	11,105.6	5,020.3	155.5	155.2	91.03	-40.8	-6,254.8	939.5	629.5	310.00	3.031	
11,400.0	5,002.6	11,205.6	5,019.4	158.0	157.7	91.03	-40.4	-6,354.8	939.5	624.6	314.94	2.983	
11,500.0	5,001.7	11,305.6	5,018.5	160.4	160.1	91.03	-40.0	-6,454.8	939.5	619.6	319.88	2.937	
11,600.0	5,000.8	11,405.6	5,017.6	162.9	162.6	91.03	-39.6	-6,554.8	939.5	614.7	324.82	2.892	
11,700.0	5,000.0	11,505.6	5,016.8	165.4	165.1	91.03	-39.2	-6,654.8	939.5	609.8	329.76	2.849	
11,800.0	4,999.1	11,605.6	5,015.9	167.8	167.6	91.03	-38.8	-6,754.8	939.5	604.8	334.71	2.807	
11,900.0	4,998.2	11,705.6	5,015.0	170.3	170.0	91.03	-38.4	-6,854.8	939.5	599.9	339.65	2.766	
12,000.0	4,997.3	11,805.6	5,014.2	172.8	172.5	91.03	-38.0	-6,954.8	939.5	594.9	344.59	2.727	
12,100.0	4,996.5	11,905.6	5,013.3	175.2	175.0	91.03	-37.6	-7,054.8	939.5	590.0	349.53	2.688	
12,200.0	4,995.6	12,005.6	5,012.4	177.7	177.4	91.03	-37.2	-7,154.8	939.5	585.1	354.47	2.650	
12,300.0	4,994.7	12,105.6	5,011.5	180.1	179.9	91.03	-36.8	-7,254.8	939.5	580.1	359.41	2.614	
12,400.0	4,993.8	12,205.6	5,010.7	182.6	182.4	91.03	-36.4	-7,354.8	939.5	575.2	364.35	2.579	
12,500.0	4,993.0	12,305.6	5,009.8	185.1	184.9	91.03	-36.0	-7,454.8	939.5	570.2	369.30	2.544	
12,600.0	4,992.1	12,405.6	5,008.9	187.5	187.3	91.03	-35.6	-7,554.8	939.5	565.3	374.24	2.510	
12,639.7	4,991.8	12,445.3	5,008.6	188.5	188.3	91.03	-35.4	-7,594.5	939.5	563.3	376.20	2.497	
12,656.9	4,991.6	12,454.1	5,008.5	188.9	188.5	91.03	-35.4	-7,603.3	939.6	562.7	376.84	2.493 SF	

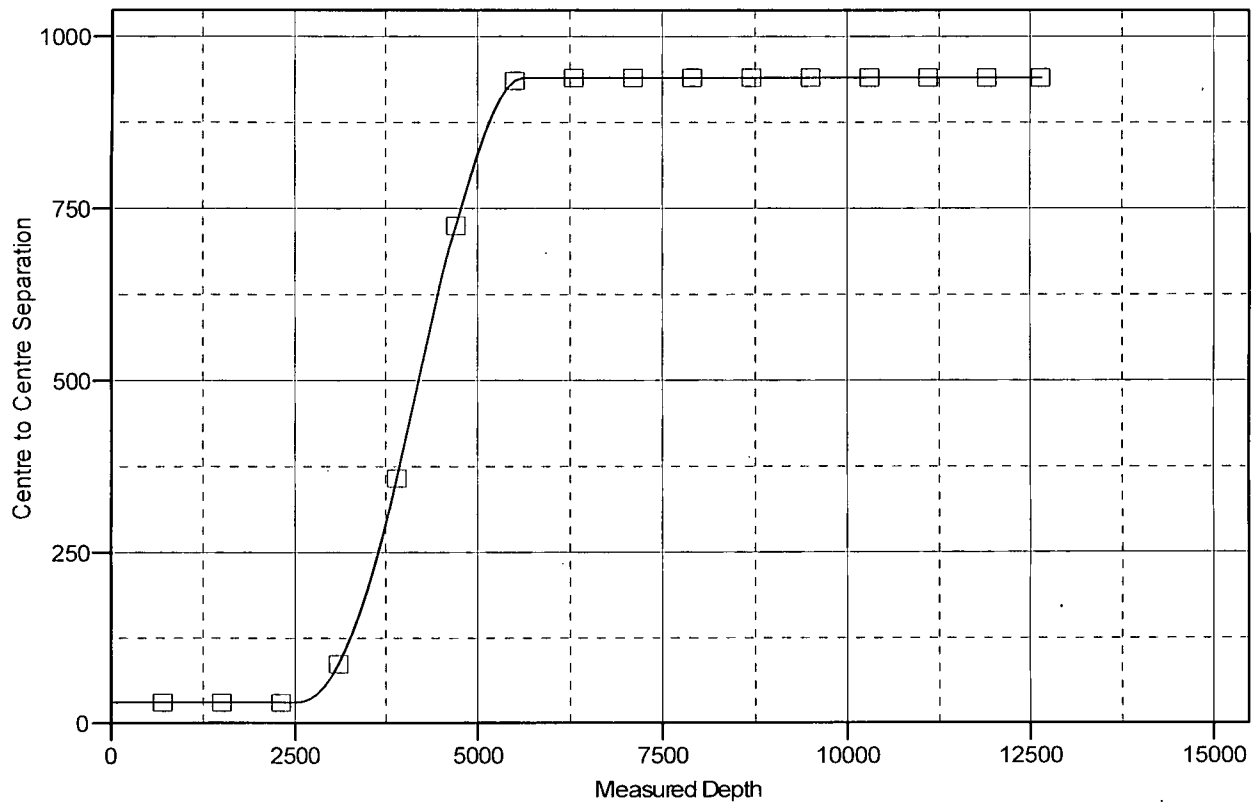
Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook J31-2307 02H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 6990.0ft (Original Well Elev)
Reference Site:	S31-T23N-R7W	MD Reference:	WELL @ 6990.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Lybrook J31-2307 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 @ 6990.0ft (Original Well Elev)
Offset Depths are relative to Offset Datum
Central Meridian is -106.250000 °

Coordinates are relative to: Lybrook J31-2307 02H
Coordinate System is US State Plane 1983, New Mexico Central Zone
Grid Convergence at Surface is: -0.81°

Ladder Plot



LEGEND

— Lybrook J31-2307 01H, Hz, Plan #2 V0

Directions from the Intersection of US Hwy 550 & US Hwy 64
in Bloomfield, NM to Encana Oil & Gas (USA) Inc. Lybrook J31-2307 02H
2192' FSL & 2551' FEL, Section 31, T23N, R7W, N.M.P.M., Sandoval County, NM

Latitude: 36.18203°N Longitude: 107.61516°W Datum: NAD1983

From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM, travel Southerly on US Hwy 550 for 38.7 miles to Mile Marker 112.7;

Go right (Southerly) on County Road #7900 for 4.9 miles to fork in road;

Go straight (South-easterly) remaining on County Road #7900 for 0.2 miles to fork in road;

Go left (North-easterly) exiting County Road #7900 for 2.8 miles to three-way intersection;

Go left (North-easterly) for 0.2 miles to new access on right-hand side of existing roadway which continues for 4871' to staked Encana Lybrook J31-2307 02H location.

encana

SANDOVAL COUNTY,
NEW MEXICO

- ⊘ Abandoned
- ⊗ Abandoned Gas
- ⊙ Abandoned Oil
- ⊕ Dry Hole
- ⊛ GAS
- ⊙ Injection
- Basin Mancos Gas Pool
- OIL

1 inch = 2,333 feet

24

23N
8W

KENC OIL GAS INC 22
19

20

Lybrook E20-2307 01H
Lybrook E20-2307 02H

Lybrook O20-2307 01H

KITE ACA FEDERAL 1

HENRY AGC FEDERAL 1

Lybrook G30-2307 01H
Lybrook G30-2307 02H
Lybrook G30-2307 03H
Lybrook G30-2307 04H

26

25

30

29

Lybrook L29-2307 01H
Lybrook L29-2307 02H
Lybrook L29-2307 03H
Lybrook L29-2307 04H

Lybrook O30-2307 01H
Lybrook O30-2307 02H
Lybrook O30-2307 03H

Lybrook G31-2307 01H
Lybrook G31-2307 03H

ALAMITO
UNIT 4

35

LITTLE B 1
LITTLE B 2

36

Lybrook J31-2307 02H

Lybrook J31-2307 01H

FEDERAL C 2

32

ALAMITO
UNIT 3

ALAMITO UNIT 2

ALAMITO
ANR
FEDERAL 1

FEDERAL
35-23-8 1

Lybrook
M35-2308 01H

Lybrook M35-2308 02H
Lybrook M35-2308 03H
Lybrook M35-2308 04H

Lybrook O35-2308 01H
Lybrook O35-2308 02H

STATE K 1

FEDERAL C 3

FULTON 1
FULTON 1

Lybrook P31-2307 01H
Lybrook P31-2307 02H
Lybrook P31-2307 03H
Lybrook P31-2307 04H

FEDERAL G 2

SOUTH CHACO 5
SOUTH CHACO 5

SOUTH SEAS 1

2

GALLO WASH 5

6

5

ALAMITO
GALLUP
POOL

SOUTH SEAS 2

FEDERAL 6-22-7 1

22N
8W

Lybrook D12-2208 01H

11

12

7

0 0.125 0.25 0.5 Miles

8

encana

Well Name and Number:

Lybrook J31-2307 02H



11" 3K Annular

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

3K Mud Cross 3" gate valves

