

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary-Designate

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions
listed below are made in accordance with OCD Rule 19.15.7.11
and are in addition to the actions approved by BLM on the
following 3160-3 APD form.

Operator Signature Date: 3-18-14

Well information;

Operator Encana, Well Name and Number Lybrook 331-2307 #2H

API# 30043-21215, Section 31, Township 23 N/S, Range 7 E/W

Conditions of Approval:

(See the below checked and handwritten conditions)

- ☒ Notify Aztec OCD 24hrs prior to casing & cement.
- ☒ Hold C-104 for directional survey & "As Drilled" Plat
- ☒ Hold C-104 for NSL, NSP, DHC
- ☐ Spacing rule violation. Operator must follow up with change of status notification on other well to be shut in or abandoned
- ☐ Regarding the use of a pit, closed loop system or below grade tank, the operator must comply with the following as applicable:
 - A pit requires a complete C-144 be submitted and approved prior to the construction or use of the pit, pursuant to 19.15.17.8.A
 - A closed loop system requires notification prior to use, pursuant to 19.15.17.9.A
 - A below grade tank requires a registration be filed prior to the construction or use of the below grade tank, pursuant to 19.15.17.8.C
- ☐ Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
- ☒ Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.

Charles Berry
NMOCD Approved by Signature

7-29-2014
Date

CONFIDENTIAL

RECEIVED

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAR 21 2014

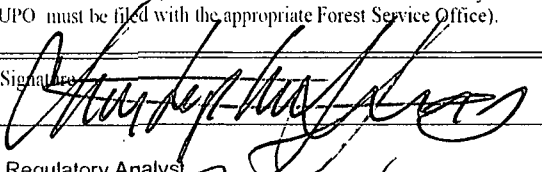
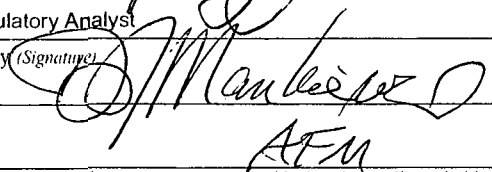
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NM LG-9090 NM6684- state
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator Encana Oil & Gas (USA) Inc.		7. If Unit or CA Agreement, Name and No. Pending
3a. Address 370 17th Street, Suite 1700 Denver, CO 80202		8. Lease Name and Well No. Lybrook J31-2307 02H
3b. Phone No. (include area code) (720) 876-3448		9. API Well No. 30-043-21215
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 2192' FSL and 2551' FEL Section 31, T23N, R7W At proposed prod. zone 1177' FSL and 2291' FEL Section 36, T23N, R8W		10. Field and Pool, or Exploratory Alamito-Gallup
14. Distance in miles and direction from nearest town or post office* +/- 46.8 miles south of the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM		11. Sec., T, R. M. or Blk. and Survey or Area Section 31, T23N, R7W NMPM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) BHL is 1177' from the south lease line	16. No. of acres in lease, NM 6681- 642.56 NM LG-9090- 240 acres	17. Spacing Unit dedicated to this well 160.67 acres S2SW Section 31, S2SE Section 36
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Lybrook J31-2307 01H is +/- 30' NE of SHL	19. Proposed Depth 5014' TVD, 10483' MD	20. BLM/BIA Bond No. OIL CONS. DIV DIST. 3 COB-000235 MAY 02 2014
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6974', KB 6990'	22. Approximate date work will start* 09/11/2014	23. Estimated duration 20 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature 	Name (Printed/Typed) Christopher Simmons	Date 03-18-14
Title Regulatory Analyst		
Approved by 	Name (Printed/Typed) AFM	Date 4/29/14
Title AFM	Office FFO	

Application approval 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.
Conditions of approval, if any, are attached.

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

*(Instructions on page 2)

NMOCDA

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

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

OIL CONS. DIV DIST. 3

☐ AMENDED REPORT

RECEIVED

WELL LOCATION AND MAP OF SURFACE DEDICATION PLAT

MAR 27 2014

*APT Number 30-043-21215	*Pool Code 1039	*Pool Name ALAMITO - GALLUP
*Property Code 313511	*Property Name LYBROOK J31-2307	*Well Number 024
*OSRID No. 282327	*Operator Name ENCANA OIL & GAS (USA) INC.	*Elevation 6974'

Farmington Field Office
Bureau of Land Management

10 Surface Location

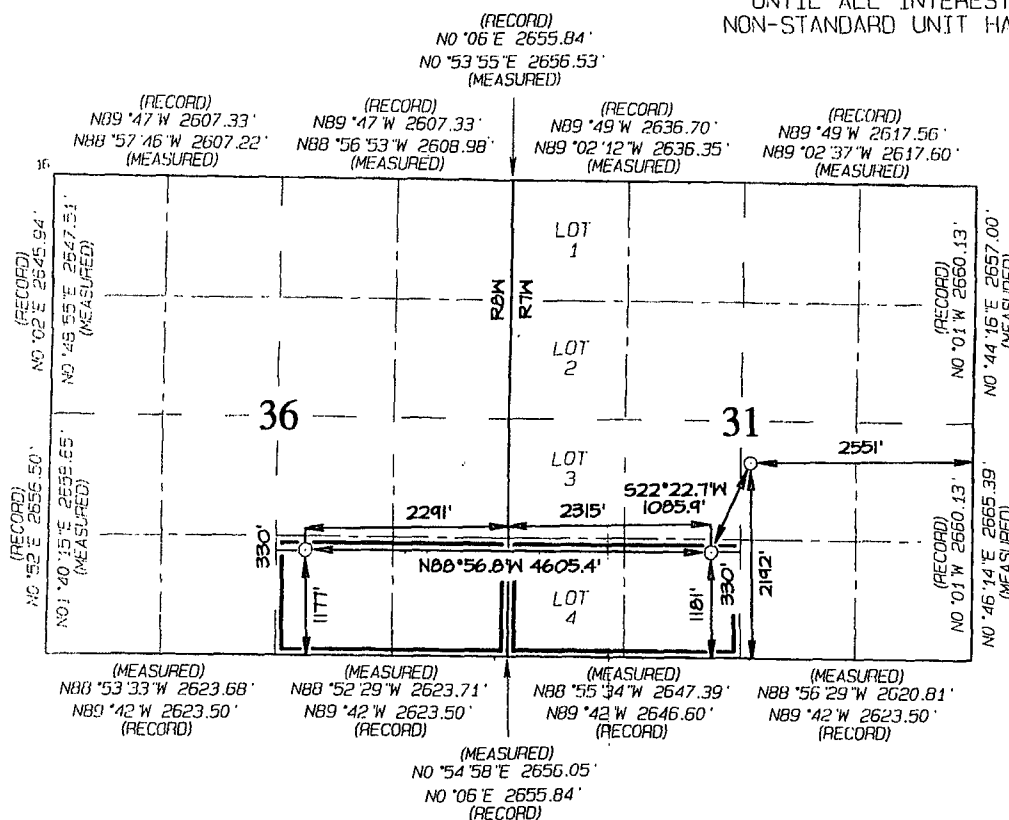
UL or lot no.	Section	Township	Range	Lot 10	Feet from the	North/South line	Feet from the	East/West line	County
J	31	23N	7W		2192	SOUTH	2551	EAST	SANDOVAL

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 10	Feet from the	North/South line	Feet from the	East/West line	County
O	36	23N	8W		1177	SOUTH	2291	EAST	SAN JUAN

*Dedicated Acres 160.67 Acres	S/2 SW/4 Section 31 S/2 SE/4 Section 36	*Joint or Infill	*Consolidation Code	*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



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 released 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: *Katie Wegner* Date: 3/24/14

Printed Name: Katie.Wegner@encana.com

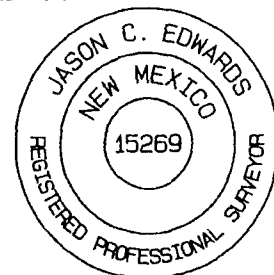
E-mail Address:

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 Revised: FEBRUARY 6, 2014
Survey Date: NOVEMBER 12, 2013

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

END-OF-LATERAL
1177' FSL 2291' FEL
SECTION 36, T23N, R7W
LAT: 36.17930°N
LONG: 107.63151°W
DATUM: NAD1927
LAT: 36.17931°N
LONG: 107.63212°W
DATUM: NAD1983

POINT-OF-ENTRY
1181' FSL 2315' FWL
SECTION 31, T23N, R7W
LAT: 36.17924°N
LONG: 107.61591°W
DATUM: NAD1927
LAT: 36.17926°N
LONG: 107.61551°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

Lybrook J31-2307 02H
SHL: NWSE Sec 31 T23N R7W
2192' FSL, 2551' FEL
BHL: NWSE Sec 36 T23N R8W
1177' FSL, 2291' FEL
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

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.
- 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.

Lybrook J31-2307 02H

SHL: NWSE Sec 31 T23N R7W

2192' FSL, 2551' FEL

BHL: NWSE Sec 36 T23N R8W

1177' FSL, 2291' FEL

Sandoval, New Mexico

- 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
- 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#	H40, STC New
Surface	0'-500'	12 1/4"	9 5/8"	36#	J55, STC New
Intermediate	0'-5118'	8 3/4"	7"	26#	J55, LTC New
Production Liner	4918'-10483'	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
SHL: NWSE Sec 31 T23N R7W
2192' FSL, 2551' FEL
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1177' FSL, 2291' FEL
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'	201 sks	Type III Cement + 1% CaCl + 0.25lb/sk Cello Flake + 0.2% FL, 16ppg, 1.38cuf/sk	Surface	1 per joint on bottom 3 joints
Intermediate	0'-5118'	30% open hole excess Stage 1 Lead: 288 sks Stage 1 Tail: 330 sks Stage 2 Lead: 143 sks	Lead (Stages 1 and 2): PremLite + 3% CaCl + 0.25lb/sk CelloFlake + 5lb/sk LCM, 12.1ppg 2.13cuf/sk Tail (Stage 1): Type III Cmt + 1% CaCl + 0.25lb/sk Cello Flake 14.5ppg 1.38cuf/sk	Surface	1 every 3 joints through water bearing zones
Production Liner	4918'-10483'	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 4358'. Directional plans are attached.

Description	Proposed Depth (TVD/MD)	Formation
Horizontal Lateral TD	5014'/10483'	Gallup

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	8.4-8.6	60-70	NC
8 3/4"	500'/500'-4914'/5118'	Fresh Water LSND	9.5-8.8	40-50	8-10

Lybrook J31-2307 02H

SHL: NWSE Sec 31 T23N R7W

2192' FSL, 2551' FEL

BHL: NWSE Sec 36 T23N R8W

1177' FSL, 2291' FEL

Sandoval, New Mexico

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"	4914'/5118'- 5014'/10483'	Synthetic Oil Based Mud	8.6-9.0	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, including fresh water and oil-based operations. 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.

9. ANTICIPATED START DATE AND DURATION OF OPERATIONS

Drilling is estimated to commence on January 1st, 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, 118E			Encana Natural Gas				ENG: S Kuykendall			3/18/14	
County: Sandoval			WELL SUMMARY				RIG: Aztec 950				
WELL: Lybrook J31-2307 02H							GLE: 6974				
							RKBE: 6990				
MWD	OPEN HOLE		DEPTH			HOLE	CASING	MW	DEVIATION		
LWD	LOGGING	FORM	TVD	MD		SIZE	SPECS	MUD TYPE	INFORMATION		
			60	60'		30	20" 94# 100sx Type I Neat 16.0ppg cmt	Fresh wtr 8.3-9.2			
Multi-Well pad - take survey every stand and run anti- collision report prior to spud	None		0			12 1/4	9 5/8" 36ppf J55 STC	Fresh wtr 8.4-8.6	Vertical <1°		
		Nacimiento 9 5/8" Csg	500	500.00				TOC Surface - 201 sks of Type III Cement			
Survey Every 60"-120", updating anticollision report after surveys. Stop operations and contact drilling engineer if separation factor approaches 1.5	No OH logs	Ojo Alamo Ss.	874			Stage tool @ ~ 1,625	8 3/4	7" 26ppf J55 LTC	Fresh Wtr 8.5-8.8	Vertical <1°	
		Kirtland Shale	1,069								
		Fruitland Coal	1,335								
		Pictured Cliffs Ss.	1,459								
		Lewis Shale	1,575								
Surveys every 30' through the curve	Mud logger onsite	Cliffhouse Ss.	2,228					TOC @ surface 30% OH excess: 618 sksTotal.			
		Menefee Fn.	3,018								
		Point Lookout Ss.	3,843								
		Mancos Shale	4,025								
		KOP	4,358	4,358.0							
		Mancos Silt	4,545				143 Stage 2: 168 sks Premium Lite FM + 3% CaCl2 + 0.25/sk Cello Flake + 5#/sk LCM-1 + 8% Bentonite + 0.4% FL-52A + 0.4% Sodium Metasilicate. Mixed at 12.1 ppg. Yield 2.13 cuft/sk.				
		Gallup Fn.	4,802								
		7" Csg	4,914	5,117.7							
Surveys every stand to TD unless directed otherwise by Geologist	No OH Logs	Horizontal Target TD	5,058	10,482.9		6 1/8	200' overlap at liner top	Horizontal Inclination	Horz Inc/TVD		
			5,014								
MWD Gamma Directional		Base Gallup	5,132				5365' Drilled Lateral	Horizontal TVD	TD = 10,482.9 MD		
							4 1/2" 11.6ppf SB80 LTC	Switch to OBM 8.6-9.0			
							Running external swellable csg packers for isolation of prod string Plan on setting top packer within 100' of intermediate casing shoe				

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 4358', 8 3/4 inch holesize
- 5) PU directional tools and start curve at 10deg/100' build rate
- 6) Drill to csg point of 5118' MD
- 7) R&C 7" csg, circ cmt to surface, switch to OBM
- 8) Land at 90 deg, drill lateral to 10483' 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

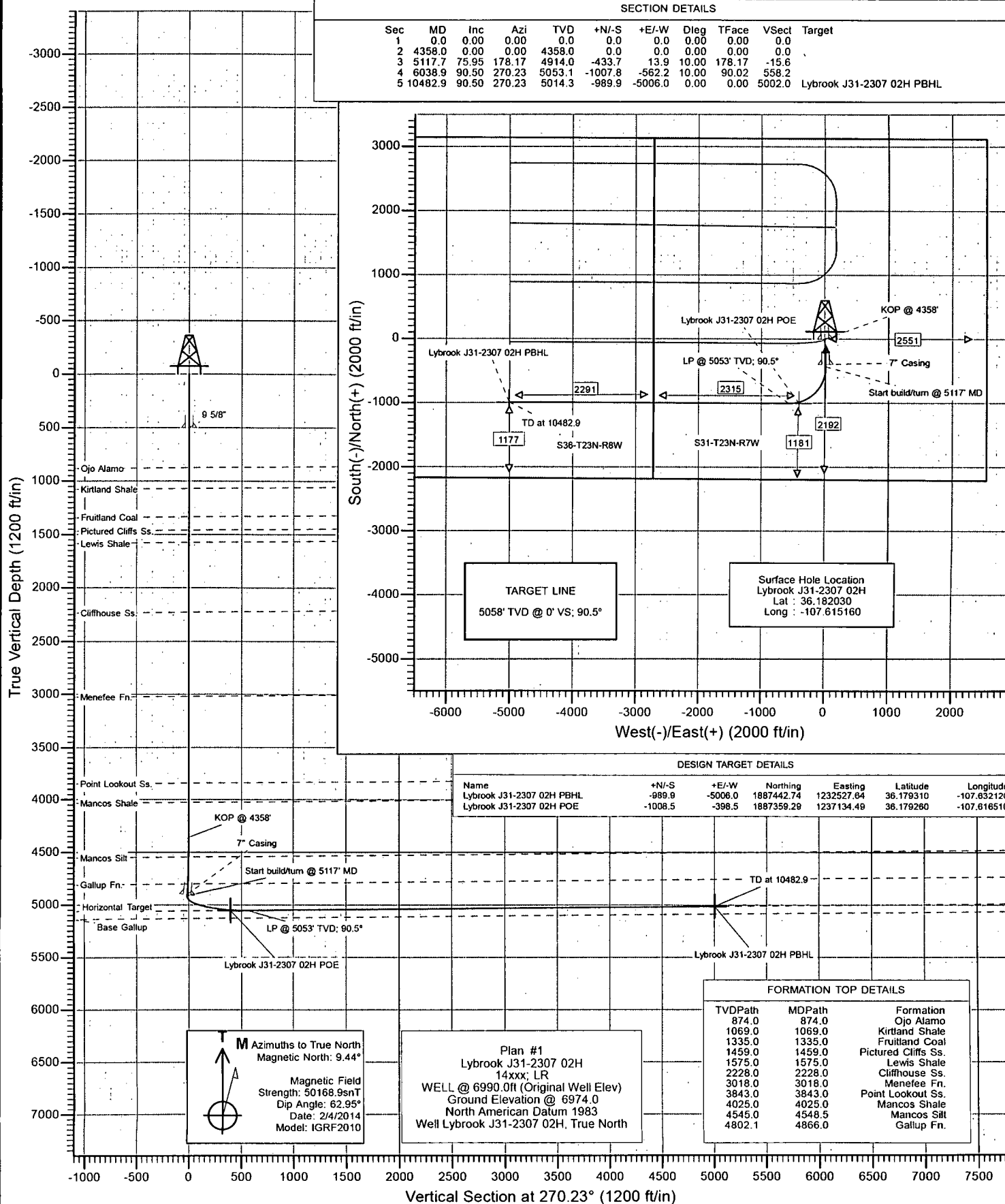
MAXIMUM DEPTH/LENGTH BASED ON MUD WTS & SAFETY FACTORS

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

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.00	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4358.0	0.00	0.00	4358.0	0.0	0.0	0.00	0.00	0.0	
3	5117.7	75.95	178.17	4914.0	-4337.7	13.9	10.00	178.17	-15.6	
4	6038.9	90.50	270.23	5053.1	-1007.8	-562.2	10.00	90.02	558.2	
5	10482.9	90.50	270.23	5014.3	-989.9	-5006.0	0.00	0.00	5002.0	Lybrook J31-2307 02H PBHL



Planning Report

Database: USA EDM 5000 Multi Users DB
Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Site: S31-T23N-R7W
Well: Lybrook J31-2307 02H
Wellbore: Hz
Design: Plan #1

Local Co-ordinate Reference: Well Lybrook J31-2307 02H
TVD Reference: WELL @ 6990.0ft (Original Well Elev)
MD Reference: WELL @ 6990.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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
	+E/-W	0.0 ft	Easting:	1,237,547.11 ft
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 #1			
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	
4,358.0	0.00	0.00	4,358.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,117.7	75.95	178.17	4,914.0	-433.7	13.9	10.00	10.00	0.00	178.17	
6,038.9	90.50	270.23	5,053.1	-1,007.8	-562.2	10.00	1.58	9.99	90.02	
10,482.9	90.50	270.23	5,014.3	-989.9	-5,006.0	0.00	0.00	0.00	0.00	Lybrook J31-2307 02H

Planning Report

Database: USA EDM 5000 Multi Users DB
 Company: EnCana Oil & Gas (USA) Inc
 Project: Sandoval County, NM
 Site: S31-T23N-R7W
 Well: Lybrook J31-2307 02H
 Wellbore: Hz
 Design: Plan #1

Local Co-ordinate Reference: Well Lybrook J31-2307 02H
 TVD Reference: WELL @ 6990.0ft (Original Well Elev)
 MD Reference: WELL @ 6990.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

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	
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	
3,018.0	0.00	0.00	3,018.0	0.0	0.0	0.0	0.00	0.00	Menefee Fn.
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	
3,700.0	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	
3,843.0	0.00	0.00	3,843.0	0.0	0.0	0.0	0.00	0.00	Point Lookout Ss.
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	
4,025.0	0.00	0.00	4,025.0	0.0	0.0	0.0	0.00	0.00	Mancos Shale
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	

Planning Report

Database: USA EDM 5000 Multi Users DB
 Company: EnCana Oil & Gas (USA) Inc
 Project: Sandoval County, NM
 Site: S31-T23N-R7W
 Well: Lybrook J31-2307 02H
 Wellbore: Hz
 Design: Plan #1

Local Co-ordinate Reference: Well Lybrook J31-2307 02H
 TVD Reference: WELL @ 6990.0ft (Original Well Elev)
 MD Reference: WELL @ 6990.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

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
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	
4,358.0	0.00	0.00	4,358.0	0.0	0.0	0.0	0.00	0.00	KOP @ 4358'
4,400.0	4.20	178.17	4,400.0	-1.5	0.0	-0.1	10.00	10.00	
4,500.0	14.20	178.17	4,498.6	-17.5	0.6	-0.6	10.00	10.00	
4,548.5	19.04	178.17	4,545.0	-31.4	1.0	-1.1	10.00	10.00	Mancos Silt
4,600.0	24.19	178.17	4,592.9	-50.3	1.6	-1.8	10.00	10.00	
4,700.0	34.19	178.17	4,680.1	-99.0	3.2	-3.6	10.00	10.00	
4,800.0	44.19	178.17	4,757.5	-162.1	5.2	-5.8	10.00	10.00	
4,866.0	50.79	178.17	4,802.1	-210.7	6.7	-7.6	10.00	10.00	Gallup Fn.
4,900.0	54.19	178.17	4,822.7	-237.6	7.6	-8.6	10.00	10.00	
5,000.0	64.18	178.17	4,873.9	-323.4	10.3	-11.6	10.00	10.00	
5,078.2	72.00	178.17	4,903.1	-395.8	12.7	-14.2	10.00	10.00	7" Casing
5,100.0	74.18	178.17	4,909.4	-416.7	13.3	-15.0	10.00	10.00	
5,117.7	75.95	178.17	4,914.0	-433.7	13.9	-15.6	10.00	10.00	Start build/turn @ 5117' MD
5,200.0	76.09	186.65	4,933.9	-513.5	10.5	-12.6	10.00	0.18	
5,300.0	76.66	196.92	4,957.5	-608.5	-9.3	6.9	10.00	0.57	
5,400.0	77.64	207.13	4,979.8	-698.7	-45.8	43.0	10.00	0.98	
5,500.0	79.00	217.25	5,000.1	-781.4	-98.0	94.8	10.00	1.35	
5,600.0	80.68	227.27	5,017.8	-854.2	-164.1	160.6	10.00	1.69	
5,700.0	82.64	237.18	5,032.3	-914.7	-242.2	238.5	10.00	1.96	
5,800.0	84.82	247.00	5,043.2	-961.2	-329.9	326.1	10.00	2.18	
5,900.0	87.15	256.75	5,050.3	-992.1	-424.6	420.6	10.00	2.33	
6,000.0	89.56	266.46	5,053.1	-1,006.7	-523.4	519.3	10.00	2.41	
6,038.9	90.50	270.23	5,053.1	-1,007.8	-562.2	558.2	10.00	2.43	LP @ 5053' TVD; 90.5°
6,100.0	90.50	270.23	5,052.6	-1,007.6	-623.3	619.3	0.00	0.00	
6,200.0	90.50	270.23	5,051.7	-1,007.2	-723.3	719.3	0.00	0.00	
6,300.0	90.50	270.23	5,050.8	-1,006.8	-823.3	819.3	0.00	0.00	
6,400.0	90.50	270.23	5,050.0	-1,006.4	-923.3	919.3	0.00	0.00	
6,500.0	90.50	270.23	5,049.1	-1,006.0	-1,023.3	1,019.3	0.00	0.00	
6,600.0	90.50	270.23	5,048.2	-1,005.6	-1,123.3	1,119.3	0.00	0.00	
6,700.0	90.50	270.23	5,047.3	-1,005.2	-1,223.3	1,219.3	0.00	0.00	
6,800.0	90.50	270.23	5,046.5	-1,004.8	-1,323.3	1,319.3	0.00	0.00	
6,900.0	90.50	270.23	5,045.6	-1,004.4	-1,423.3	1,419.3	0.00	0.00	
7,000.0	90.50	270.23	5,044.7	-1,004.0	-1,523.3	1,519.3	0.00	0.00	
7,100.0	90.50	270.23	5,043.9	-1,003.5	-1,623.3	1,619.2	0.00	0.00	
7,200.0	90.50	270.23	5,043.0	-1,003.1	-1,723.3	1,719.2	0.00	0.00	
7,300.0	90.50	270.23	5,042.1	-1,002.7	-1,823.3	1,819.2	0.00	0.00	
7,400.0	90.50	270.23	5,041.2	-1,002.3	-1,923.3	1,919.2	0.00	0.00	
7,500.0	90.50	270.23	5,040.4	-1,001.9	-2,023.3	2,019.2	0.00	0.00	
7,600.0	90.50	270.23	5,039.5	-1,001.5	-2,123.3	2,119.2	0.00	0.00	
7,700.0	90.50	270.23	5,038.6	-1,001.1	-2,223.3	2,219.2	0.00	0.00	
7,800.0	90.50	270.23	5,037.7	-1,000.7	-2,323.3	2,319.2	0.00	0.00	
7,900.0	90.50	270.23	5,036.9	-1,000.3	-2,423.3	2,419.2	0.00	0.00	
8,000.0	90.50	270.23	5,036.0	-999.9	-2,523.2	2,519.2	0.00	0.00	
8,100.0	90.50	270.23	5,035.1	-999.5	-2,623.2	2,619.2	0.00	0.00	
8,200.0	90.50	270.23	5,034.2	-999.1	-2,723.2	2,719.2	0.00	0.00	
8,300.0	90.50	270.23	5,033.4	-998.7	-2,823.2	2,819.2	0.00	0.00	
8,400.0	90.50	270.23	5,032.5	-998.3	-2,923.2	2,919.2	0.00	0.00	
8,500.0	90.50	270.23	5,031.6	-997.9	-3,023.2	3,019.2	0.00	0.00	
8,600.0	90.50	270.23	5,030.7	-997.5	-3,123.2	3,119.2	0.00	0.00	
8,700.0	90.50	270.23	5,029.9	-997.1	-3,223.2	3,219.2	0.00	0.00	
8,800.0	90.50	270.23	5,029.0	-996.7	-3,323.2	3,319.2	0.00	0.00	

Planning Report

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 Company: EnCana Oil & Gas (USA) Inc
 Project: Sandoval County, NM
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 Wellbore: Hz
 Design: Plan #1

Local Co-ordinate Reference: Well Lybrook J31-2307 02H
 TVD Reference: WELL @ 6990.0ft (Original Well Elev)
 MD Reference: WELL @ 6990.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

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	5,028.1	-996.3	-3,423.2	3,419.2	0.00	0.00	
9,000.0	90.50	270.23	5,027.3	-995.9	-3,523.2	3,519.2	0.00	0.00	
9,100.0	90.50	270.23	5,026.4	-995.5	-3,623.2	3,619.2	0.00	0.00	
9,200.0	90.50	270.23	5,025.5	-995.1	-3,723.2	3,719.2	0.00	0.00	
9,300.0	90.50	270.23	5,024.6	-994.7	-3,823.2	3,819.2	0.00	0.00	
9,400.0	90.50	270.23	5,023.8	-994.3	-3,923.2	3,919.2	0.00	0.00	
9,500.0	90.50	270.23	5,022.9	-993.8	-4,023.2	4,019.2	0.00	0.00	
9,600.0	90.50	270.23	5,022.0	-993.4	-4,123.2	4,119.2	0.00	0.00	
9,700.0	90.50	270.23	5,021.1	-993.0	-4,223.2	4,219.2	0.00	0.00	
9,800.0	90.50	270.23	5,020.3	-992.6	-4,323.2	4,319.1	0.00	0.00	
9,900.0	90.50	270.23	5,019.4	-992.2	-4,423.2	4,419.1	0.00	0.00	
10,000.0	90.50	270.23	5,018.5	-991.8	-4,523.2	4,519.1	0.00	0.00	
10,100.0	90.50	270.23	5,017.6	-991.4	-4,623.2	4,619.1	0.00	0.00	
10,200.0	90.50	270.23	5,016.8	-991.0	-4,723.1	4,719.1	0.00	0.00	
10,300.0	90.50	270.23	5,015.9	-990.6	-4,823.1	4,819.1	0.00	0.00	
10,400.0	90.50	270.23	5,015.0	-990.2	-4,923.1	4,919.1	0.00	0.00	
10,482.9	90.50	270.23	5,014.3	-989.9	-5,006.0	5,002.0	0.00	0.00	TD at 10482.9

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Lybrook J31-2307 02H F	0.00	0.00	5,014.3	-989.9	-5,006.0	1,887,442.74	1,232,527.64	36.179310	-107.632120
- plan hits target center									
- Point									
Lybrook J31-2307 02H F	0.00	0.00	5,054.5	-1,008.5	-398.5	1,887,359.29	1,237,134.49	36.179260	-107.616510
- plan misses target center by 23.0ft at 5880.6ft MD (5049.2 TVD, -987.4 N, -405.8 E)									
- Point									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
500.0	500.0	9 5/8"	0.000	0.000
5,078.2	4,903.1	7" Casing	0.000	0.000

Planning Report

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Project: Sandoval County, NM
Site: S31-T23N-R7W
Well: Lybrook J31-2307 02H
Wellbore: Hz
Design: Plan #1

Local Co-ordinate Reference: Well Lybrook J31-2307 02H
TVD Reference: WELL @ 6990.0ft (Original Well Elev)
MD Reference: WELL @ 6990.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
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
3,018.0	3,018.0	Menefee Fn.		-0.50	270.23
3,843.0	3,843.0	Point Lookout Ss.		-0.50	270.23
4,025.0	4,025.0	Mancos Shale		-0.50	270.23
4,548.5	4,545.0	Mancos Silt		-0.50	270.23
4,866.0	4,802.0	Gallup Fn.		-0.50	270.23

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
4,358.0	4,358.0	0.0	0.0	KOP @ 4358'
5,117.7	4,914.0	-433.7	13.9	Start build/turn @ 5117' MD
6,038.9	5,053.1	-1,007.8	-562.2	LP @ 5053' TVD; 90.5°
10,482.9	5,014.3	-989.9	-5,006.0	TD at 10482.9

EnCana Oil & Gas (USA) Inc

Sandoval County, NM

S31-T23N-R7W

Lybrook J31-2307 02H

Hz

Plan #1

Anticollision Report

04 February, 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 #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1		
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 1,200.4ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 2/4/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	10,482.9	Plan #1 (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
Offset Well - Wellbore - Design						
S31-T23N-R7W						
Lybrook G31-2307 01H - Hz - Plan #1						Out of range
Lybrook G31-2307 02H - Hz - Plan #1						Out of range
Lybrook G31-2307 03H - Hz - Plan #1	4,600.0	5,719.0	1,086.6	1,064.5	49.078	SF
Lybrook G31-2307 03H - Hz - Plan #1	4,618.4	5,720.9	1,086.2	1,064.2	49.300	CC, ES
Lybrook J31-2307 01H - Hz - Plan #1	4,300.0	4,300.0	30.1	15.1	2.011	CC, ES, SF

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc
 Project: Sandoval County, NM
 Reference Site: S31-T23N-R7W
 Site Error: 0.0ft
 Reference Well: Lybrook J31-2307 02H
 Well Error: 0.0ft
 Reference Wellbore: Hz
 Reference Design: Plan #1

Local Co-ordinate Reference: Well Lybrook J31-2307 02H
 TVD Reference: WELL @ 6990.0ft (Original Well Elev)
 MD Reference: WELL @ 6990.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Output errors are at 2.00 sigma
 Database: USA EDM 5000 Multi Users DB
 Offset TVD Reference: Offset Datum

Offset Design S31-T23N-R7W - Lybrook G31-2307 03H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						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)	Total Uncertainty Axis	Separation Factor		
4,400.0	4,400.0	5,700.0	5,097.0	7.7	19.7	169.91	902.5	-199.2	1,146.3	1,123.7	22.56	50.813		
4,500.0	4,498.6	5,700.0	5,097.0	7.8	19.7	170.70	902.5	-199.2	1,104.4	1,082.1	22.28	49.566		
4,600.0	4,592.9	5,719.0	5,099.6	8.1	20.0	170.01	896.8	-217.1	1,086.6	1,064.5	22.14	49.078 SF		
4,618.4	4,609.5	5,720.9	5,099.8	8.1	20.0	169.92	896.3	-218.9	1,086.2	1,064.2	22.03	49.300 CC, ES		
4,700.0	4,680.1	5,729.2	5,100.9	8.4	20.2	169.33	894.0	-226.9	1,094.9	1,073.4	21.42	51.123		
4,800.0	4,757.5	5,750.0	5,103.3	8.9	20.5	167.51	888.7	-246.8	1,128.3	1,107.6	20.69	54.544		
4,900.0	4,822.7	5,750.0	5,103.3	9.6	20.5	165.98	888.7	-246.8	1,183.5	1,164.1	19.39	61.032		

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
 Project: Sandoval County, NM
 Reference Site: S31-T23N-R7W
 Site Error: 0.0ft
 Reference Well: Lybrook J31-2307 02H
 Well Error: 0.0ft
 Reference Wellbore: Hz
 Reference Design: Plan #1

Local Co-ordinate Reference: Well Lybrook J31-2307 02H
 TVD Reference: WELL @ 6990.0ft (Original Well Elev)
 MD Reference: WELL @ 6990.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: USA EDM 5000 Multi Users DB
 Offset TVD Reference: Offset Datum

Offset Design S31-T23N-R7W - Lybrook J31-2307 01H - Hz - Plan #1													Offset Site Error: 0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance				Separation Factor	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)			Total Uncertainty Axis
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	
2,600.0	2,600.0	2,600.0	2,600.0	4.5	4.5	43.40	21.8	20.7	30.1	21.0	9.02	3.334	
2,700.0	2,700.0	2,700.0	2,700.0	4.7	4.7	43.40	21.8	20.7	30.1	20.7	9.37	3.209	
2,800.0	2,800.0	2,800.0	2,800.0	4.9	4.9	43.40	21.8	20.7	30.1	20.3	9.72	3.094	
2,900.0	2,900.0	2,900.0	2,900.0	5.0	5.0	43.40	21.8	20.7	30.1	20.0	10.07	2.987	
3,000.0	3,000.0	3,000.0	3,000.0	5.2	5.2	43.40	21.8	20.7	30.1	19.7	10.42	2.887	
3,100.0	3,100.0	3,100.0	3,100.0	5.4	5.4	43.40	21.8	20.7	30.1	19.3	10.77	2.793	
3,200.0	3,200.0	3,200.0	3,200.0	5.6	5.6	43.40	21.8	20.7	30.1	19.0	11.11	2.705	
3,300.0	3,300.0	3,300.0	3,300.0	5.7	5.7	43.40	21.8	20.7	30.1	18.6	11.46	2.623	
3,400.0	3,400.0	3,400.0	3,400.0	5.9	5.9	43.40	21.8	20.7	30.1	18.3	11.81	2.545	
3,500.0	3,500.0	3,500.0	3,500.0	6.1	6.1	43.40	21.8	20.7	30.1	17.9	12.16	2.472	
3,600.0	3,600.0	3,600.0	3,600.0	6.3	6.3	43.40	21.8	20.7	30.1	17.6	12.51	2.403	
3,700.0	3,700.0	3,700.0	3,700.0	6.4	6.4	43.40	21.8	20.7	30.1	17.2	12.86	2.338	
3,800.0	3,800.0	3,800.0	3,800.0	6.6	6.6	43.40	21.8	20.7	30.1	16.9	13.21	2.276	
3,900.0	3,900.0	3,900.0	3,900.0	6.8	6.8	43.40	21.8	20.7	30.1	16.5	13.56	2.218	
4,000.0	4,000.0	4,000.0	4,000.0	7.0	7.0	43.40	21.8	20.7	30.1	16.2	13.91	2.162	
4,100.0	4,100.0	4,100.0	4,100.0	7.1	7.1	43.40	21.8	20.7	30.1	15.8	14.26	2.109	
4,200.0	4,200.0	4,200.0	4,200.0	7.3	7.3	43.40	21.8	20.7	30.1	15.5	14.60	2.059	
4,300.0	4,300.0	4,300.0	4,300.0	7.5	7.5	43.40	21.8	20.7	30.1	15.1	14.95	2.011 CC, ES, SF	
4,337.7	4,337.7	4,337.7	4,337.7	7.5	7.5	-135.45	21.8	20.7	30.4	15.4	15.08	2.018	
4,400.0	4,400.0	4,400.0	4,400.0	7.7	7.7	-136.69	21.8	20.7	31.2	15.9	15.29	2.039	
4,500.0	4,498.6	4,503.8	4,503.5	7.8	7.8	-148.03	16.2	20.2	39.3	23.9	15.44	2.547	
4,600.0	4,592.9	4,604.4	4,602.4	8.1	8.0	-167.32	1.2	11.3	53.2	38.1	15.16	3.512	
4,700.0	4,680.1	4,694.1	4,688.2	8.4	8.2	171.44	-11.9	-11.2	88.7	74.0	14.67	6.048	
4,800.0	4,757.5	4,768.4	4,755.9	8.9	8.4	157.94	-22.1	-39.9	147.1	132.7	14.44	10.187	
4,900.0	4,822.7	4,826.1	4,805.6	9.6	8.7	147.65	-29.6	-68.3	222.1	207.4	14.69	15.122	
5,000.0	4,873.9	4,868.7	4,840.4	10.6	8.9	136.04	-34.8	-92.3	308.1	292.2	15.90	19.380	

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
Project: Sandoval County, NM
Reference Site: S31-T23N-R7W
Site Error: 0.0ft
Reference Well: Lybrook J31-2307 02H
Well Error: 0.0ft
Reference Wellbore: Hz
Reference Design: Plan #1

Local Co-ordinate Reference: Well Lybrook J31-2307 02H
TVD Reference: WELL @ 6990.0ft (Original Well Elev)
MD Reference: WELL @ 6990.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: USA EDM 5000 Multi Users DB
Offset TVD Reference: Offset Datum

Offset Design S31-T23N-R7W - Lybrook J31-2307 01H - Hz - Plan #1														Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)				Between Centres (ft)	Between Ellipses (ft)		
5,100.0	4,909.4	4,900.0	4,864.7	11.7	9.1	118.46	-38.5	-111.6	400.8	382.1	18.66	21.482			
5,200.0	4,933.9	4,922.0	4,881.2	13.0	9.2	106.91	-40.9	-125.9	494.6	473.7	20.95	23.607			
5,300.0	4,957.5	4,950.0	4,901.4	14.4	9.4	101.68	-44.0	-145.2	583.3	560.8	22.55	25.868			
5,400.0	4,979.8	4,990.4	4,928.8	15.8	9.8	98.52	-48.1	-174.6	665.2	641.2	23.95	27.778			
5,500.0	5,000.1	5,035.9	4,957.1	17.2	10.2	95.99	-52.3	-209.9	738.9	713.7	25.27	29.246			
5,600.0	5,017.8	5,089.3	4,986.7	18.6	10.8	94.10	-56.7	-254.1	803.2	776.6	26.59	30.209			
5,700.0	5,032.3	5,150.0	5,015.3	20.0	11.7	92.69	-60.9	-307.4	856.5	828.5	27.97	30.620			
5,800.0	5,043.2	5,220.5	5,041.2	21.4	12.8	91.77	-64.7	-372.9	897.5	868.0	29.52	30.407			
5,900.0	5,050.3	5,300.0	5,060.7	22.8	14.3	91.25	-67.4	-449.8	925.1	893.9	31.18	29.666			
6,000.0	5,053.1	5,377.4	5,069.3	24.0	15.9	91.02	-68.5	-526.6	938.3	905.7	32.67	28.720			
6,100.0	5,052.6	5,470.4	5,069.4	25.3	17.8	91.03	-68.3	-619.7	939.5	903.7	35.78	26.259			
6,200.0	5,051.7	5,570.4	5,068.5	26.8	20.0	91.03	-67.9	-719.7	939.5	899.3	40.12	23.419			
6,300.0	5,050.8	5,670.4	5,067.7	28.4	22.3	91.03	-67.5	-819.7	939.5	894.9	44.58	21.073			
6,400.0	5,050.0	5,770.4	5,066.8	30.1	24.6	91.03	-67.1	-919.7	939.5	890.3	49.14	19.118			
6,500.0	5,049.1	5,870.4	5,065.9	32.0	26.9	91.03	-66.7	-1,019.7	939.5	885.7	53.77	17.473			
6,600.0	5,048.2	5,970.4	5,065.0	33.9	29.2	91.03	-66.3	-1,119.7	939.5	881.0	58.45	16.074			
6,700.0	5,047.3	6,070.4	5,064.2	35.9	31.6	91.03	-65.9	-1,219.7	939.5	876.3	63.17	14.873			
6,800.0	5,046.5	6,170.4	5,063.3	38.0	34.0	91.03	-65.5	-1,319.6	939.5	871.5	67.92	13.832			
6,900.0	5,045.6	6,270.4	5,062.4	40.1	36.4	91.03	-65.0	-1,419.6	939.5	866.8	72.70	12.923			
7,000.0	5,044.7	6,370.4	5,061.5	42.2	38.8	91.03	-64.6	-1,519.6	939.5	862.0	77.50	12.122			
7,100.0	5,043.9	6,470.4	5,060.7	44.4	41.2	91.03	-64.2	-1,619.6	939.5	857.2	82.32	11.413			
7,200.0	5,043.0	6,570.4	5,059.8	46.6	43.6	91.03	-63.8	-1,719.6	939.5	852.3	87.15	10.780			
7,300.0	5,042.1	6,670.4	5,058.9	48.9	46.0	91.03	-63.4	-1,819.6	939.5	847.5	92.00	10.212			
7,400.0	5,041.2	6,770.4	5,058.1	51.2	48.5	91.03	-63.0	-1,919.6	939.5	842.6	96.85	9.700			
7,500.0	5,040.4	6,870.4	5,057.2	53.5	50.9	91.03	-62.6	-2,019.6	939.5	837.8	101.71	9.236			
7,600.0	5,039.5	6,970.4	5,056.3	55.8	53.4	91.03	-62.2	-2,119.6	939.5	832.9	106.59	8.814			
7,700.0	5,038.6	7,070.4	5,055.4	58.1	55.8	91.03	-61.8	-2,219.6	939.5	828.0	111.46	8.428			
7,800.0	5,037.7	7,170.4	5,054.6	60.4	58.2	91.03	-61.4	-2,319.6	939.5	823.1	116.35	8.075			
7,900.0	5,036.9	7,270.4	5,053.7	62.8	60.7	91.03	-61.0	-2,419.6	939.5	818.2	121.24	7.749			
8,000.0	5,036.0	7,370.4	5,052.8	65.1	63.1	91.03	-60.6	-2,519.6	939.5	813.3	126.13	7.448			
8,100.0	5,035.1	7,470.4	5,052.0	67.5	65.6	91.03	-60.2	-2,619.6	939.5	808.4	131.03	7.170			
8,200.0	5,034.2	7,570.4	5,051.1	69.9	68.0	91.03	-59.8	-2,719.6	939.5	803.5	135.93	6.911			
8,300.0	5,033.4	7,670.4	5,050.2	72.3	70.5	91.03	-59.4	-2,819.6	939.5	798.6	140.84	6.671			
8,400.0	5,032.5	7,770.4	5,049.3	74.6	73.0	91.03	-59.0	-2,919.6	939.5	793.7	145.74	6.446			
8,500.0	5,031.6	7,870.4	5,048.5	77.0	75.4	91.03	-58.6	-3,019.6	939.5	788.8	150.65	6.236			
8,600.0	5,030.7	7,970.4	5,047.6	79.4	77.9	91.03	-58.2	-3,119.6	939.5	783.9	155.57	6.039			
8,700.0	5,029.9	8,070.4	5,046.7	81.8	80.3	91.03	-57.8	-3,219.6	939.5	779.0	160.48	5.854			
8,800.0	5,029.0	8,170.4	5,045.9	84.3	82.8	91.03	-57.3	-3,319.6	939.5	774.1	165.40	5.680			
8,900.0	5,028.1	8,270.4	5,045.0	86.7	85.2	91.03	-56.9	-3,419.5	939.5	769.2	170.32	5.516			
9,000.0	5,027.3	8,370.4	5,044.1	89.1	87.7	91.03	-56.5	-3,519.5	939.5	764.2	175.24	5.361			
9,100.0	5,026.4	8,470.4	5,043.2	91.5	90.2	91.03	-56.1	-3,619.5	939.5	759.3	180.16	5.215			
9,200.0	5,025.5	8,570.4	5,042.4	93.9	92.6	91.03	-55.7	-3,719.5	939.5	754.4	185.08	5.076			
9,300.0	5,024.6	8,670.4	5,041.5	96.3	95.1	91.03	-55.3	-3,819.5	939.5	749.5	190.01	4.944			
9,400.0	5,023.8	8,770.4	5,040.6	98.8	97.6	91.03	-54.9	-3,919.5	939.5	744.6	194.93	4.820			
9,500.0	5,022.9	8,870.4	5,039.7	101.2	100.0	91.03	-54.5	-4,019.5	939.5	739.6	199.86	4.701			
9,600.0	5,022.0	8,970.4	5,038.9	103.6	102.5	91.03	-54.1	-4,119.5	939.5	734.7	204.79	4.588			
9,700.0	5,021.1	9,070.4	5,038.0	106.1	105.0	91.03	-53.7	-4,219.5	939.5	729.8	209.72	4.480			
9,800.0	5,020.3	9,170.4	5,037.1	108.5	107.4	91.03	-53.3	-4,319.5	939.5	724.8	214.65	4.377			
9,900.0	5,019.4	9,270.4	5,036.3	110.9	109.9	91.03	-52.9	-4,419.5	939.5	719.9	219.58	4.279			
10,000.0	5,018.5	9,370.4	5,035.4	113.4	112.4	91.03	-52.5	-4,519.5	939.5	715.0	224.51	4.185			
10,100.0	5,017.6	9,470.4	5,034.5	115.8	114.8	91.03	-52.1	-4,619.5	939.5	710.1	229.44	4.095			
10,200.0	5,016.8	9,570.4	5,033.6	118.2	117.3	91.03	-51.7	-4,719.5	939.5	705.1	234.37	4.009			

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
 Project: Sandoval County, NM
 Reference Site: S31-T23N-R7W
 Site Error: 0.0ft
 Reference Well: Lybrook J31-2307 02H
 Well Error: 0.0ft
 Reference Wellbore: Hz
 Reference Design: Plan #1

Local Co-ordinate Reference: Well Lybrook J31-2307 02H
 TVD Reference: WELL @ 6990.0ft (Original Well Elev)
 MD Reference: WELL @ 6990.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Output errors are at 2.00 sigma
 Database: USA EDM 5000 Multi Users DB
 Offset TVD Reference: Offset Datum

Offset Design S31-T23N-R7W - Lybrook J31-2307 01H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,300.0	5,015.9	9,670.4	5,032.8	120.7	119.8	91.03	-51.3	-4,819.5	939.5	700.2	239.31	3.926		
10,400.0	5,015.0	9,770.4	5,031.9	123.1	122.2	91.03	-50.9	-4,919.5	939.5	695.3	244.24	3.847		
10,449.0	5,014.6	9,819.4	5,031.5	124.3	123.4	91.03	-50.7	-4,968.5	939.5	692.8	246.66	3.809		
10,463.6	5,014.3	9,850.9	5,031.2	125.2	124.2	91.03	-50.5	-5,000.0	939.5	691.2	248.29	3.784		

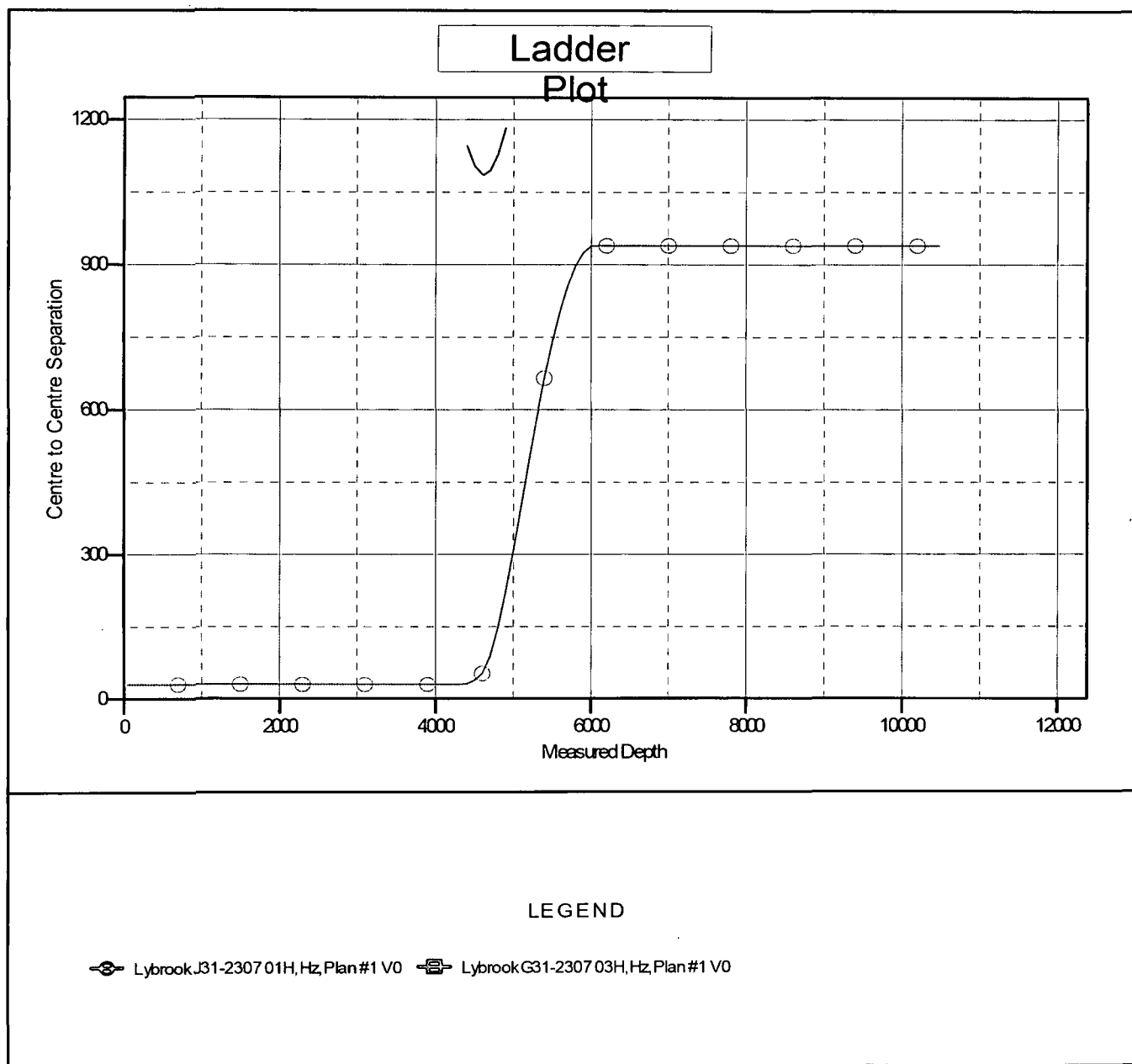
Anticollision Report

Company: EnCana Oil & Gas (USA) Inc
 Project: Sandoval County, NM
 Reference Site: S31-T23N-R7W
 Site Error: 0.0ft
 Reference Well: Lybrook J31-2307 02H
 Well Error: 0.0ft
 Reference Wellbore: Hz
 Reference Design: Plan #1

Local Co-ordinate Reference: Well Lybrook J31-2307 02H
 TVD Reference: WELL @ 6990.0ft (Original Well Elev)
 MD Reference: WELL @ 6990.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: USA EDM 5000 Multi Users DB
 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°



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

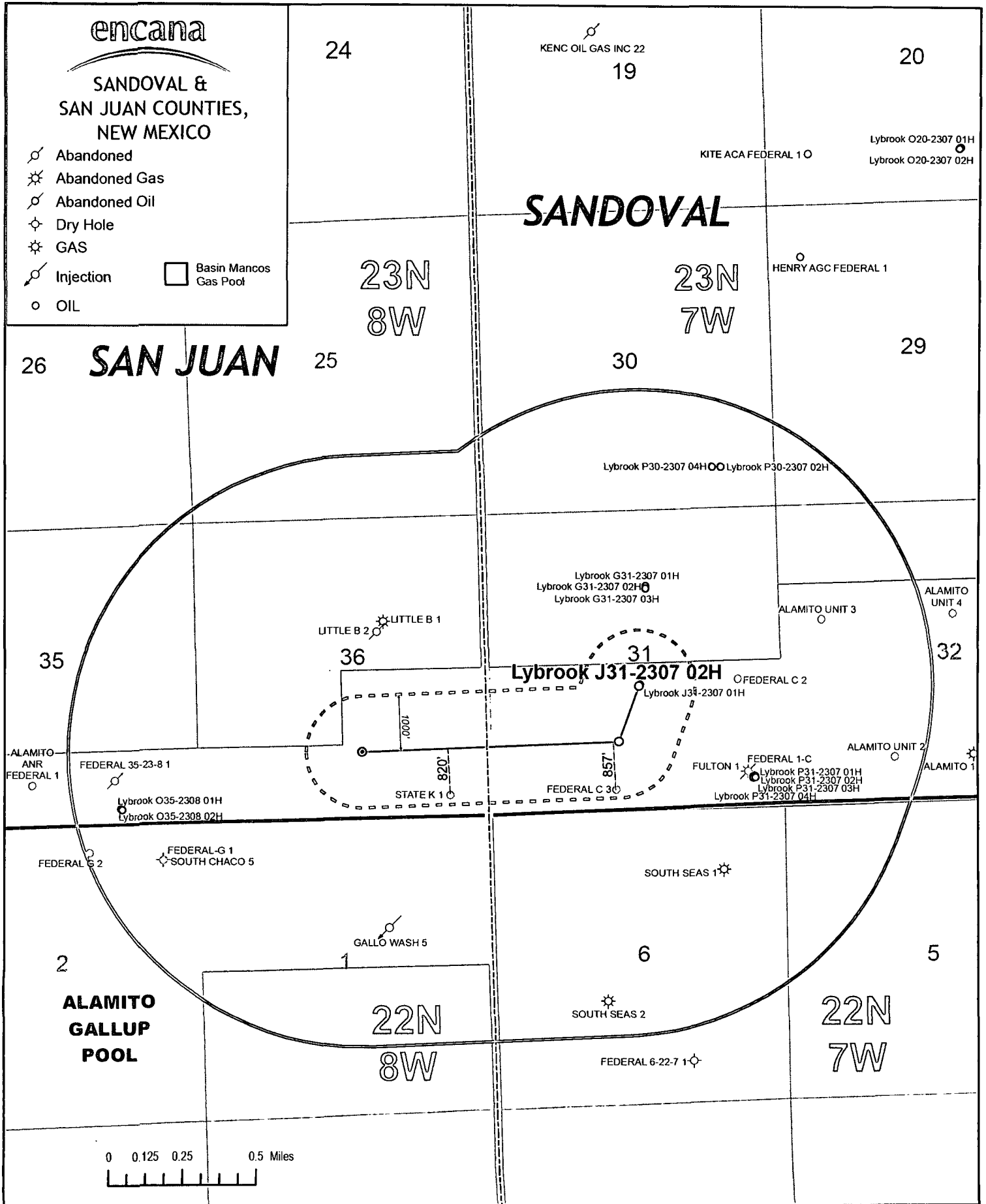
From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM, travel Southerly on US Hwy 550 for 38.7 miles to Mile Marker 112.7;

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

Well Name and Number:
Lybrook J31-2307 02H

