

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

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

David R. Catanach, 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: 8-14-14

Well information:

Operator Encona, Well Name and Number Lybrook I14 2306 #2H

API# 30-039-31273, Section 14, Township 23 (N/S), Range 06 (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 & S.9 compliance
- ☒ 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
- ☒ Regarding Hydraulic Fracturing, review EPA Underground Injection Control Guidance 84
- ☒ 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.
- ☒ Well-bore communication is regulated under 19.15.29 NMAC. This requires well-bore Communication to be reported in accordance with 19.15.29.8.

Charles Derwin
NMOCD Approved by Signature

3-20-2015
Date KC

RECEIVED

Form 3160-3
(August 2007)NMOC
DISTRICTUNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

AUG 15 2014

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NMNM 1181276. If Indian, Allottee or Tribe Name
N/A1a. Type of work: ☒ DRILL ☐ REENTER7. If Unit or CA Agreement, Name and No.
N/A1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone8. Lease Name and Well No.
Lybrook 114-2306 02H

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

9. API Well No.

30-039-31273

3a. Address 370 17th Street, Suite 1700
Denver, CO 802023b. Phone No. (include area code)
720-876-353310. Field and Pool, or Exploratory
Counselors Gallup-Dakota

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface 1908' FSL and 554' FEL Section 14, T23N, R6W

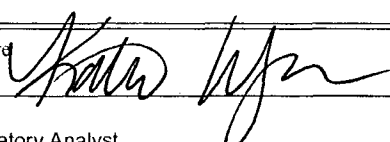
At proposed prod. zone 920' FSL and 330' FWL Section 14, T23N, R6W

11. Sec., T. R. M. or Blk. and Survey or Area
Section 14, T23N, R6W NMPM14. Distance in miles and direction from nearest town or post office*
+/- 56.6 miles southeast of the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM12. County or Parish
Rio Arriba13. State
NM15. Distance from proposed*
location to nearest
property or lease line, ft. BHL is 330' from west lease line
Section 14, T23N, R6W
(Also to nearest drig. unit line, if any)16. No. of acres in lease
NMNM 118127 - 1,160 ac.17. Spacing Unit dedicated to this well
320 acres - S2 of Section 14, T23N, R6W18. Distance from proposed location*
to nearest well, drilling, completed, Lybrook 114-2306 01H is
applied for, on this lease, ft. +/- 30' from SHL19. Proposed Depth
5,497' TVD/9,854' MD20. BLM/BIA Bond No. on file
COB-00023521. Elevations (Show whether DF, KDB, RT, GL, etc.)
6,812' GL, 6,828' KB22. Approximate date work will start*
02/07/201523. Estimated duration
20 days

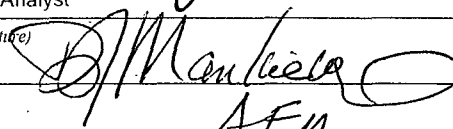
24. Attachments

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)
Katie Wegner

Date 8/14/14

Title
Regulatory AnalystApproved by (Signature) 
Title AFM

Name (Printed/Typed)

Date 3/6/15

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.

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.

(Continued on page 2)

*(Instructions on page 2)

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

NMOCDA

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

DISTRICT I

1635 N. French Dr., Hobbs, N.M. 88240
Phone: (505) 936-8161 Fax: (505) 936-0780

DISTRICT II

511 S. First St., Artesia, N.M. 88210
Phone: (505) 746-1888 Fax: (505) 746-9780

DISTRICT III

1000 Rio Bravo Rd., Aztec, N.M. 87410
Phone: (505) 834-6178 Fax: (505) 834-6170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87506
Phone: (505) 476-8460 Fax: (505) 476-8460

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87506

AUG 15 2014

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-31273		Pool Code 13379	Pool Name COUNSELORS GALLUP-DAKOTA
Property Code 314243	Property Name LYBROOK 114-2306		Well Number 02H
GRID No. 282327	Operator Name ENCANA OIL & GAS (USA) INC.		Elevation 6814.7

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
1	14	23N	6W		1908'	SOUTH	554'	EAST	RIO ARriba

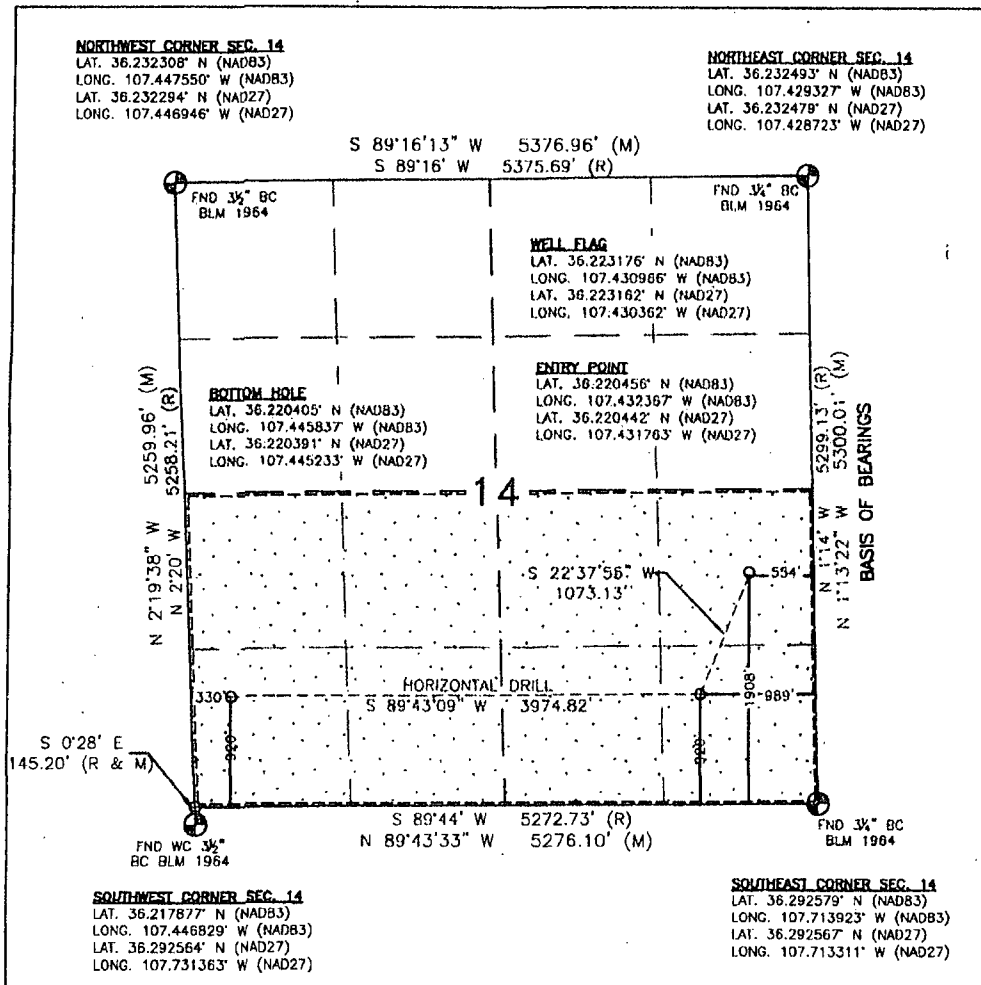
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	14	23N	6W		920'	SOUTH	330'	WEST	RIO ARriba

Dedicated Acres 320.00 ACRES S/2 SEC. 14	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

18



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Katie Wegner 8/14/14
Signature Date

Katie Wegner

Printed Name

katie.wegner@encana.com

E-mail Address

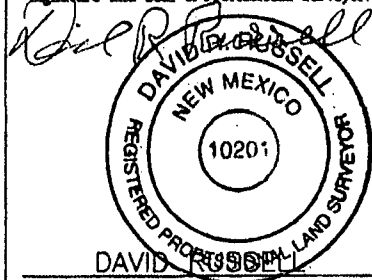
SURVEYOR CERTIFICATION

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.

JUNE 16, 2014

Date of Survey

Signature and Seal of Professional Surveyor:



Certificate Number

10201

Lybrook 114-2306 02H

SHL: 1908' FSL 554' FEL Sec 14 23N 06W

BHL: 920' FSL 330' FWL Sec 14 23N 06W

Rio Arriba, 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
San Jose Fn.	n/a
Nacimiento Fn.	surface
Ojo Alamo Ss.	1,440
Kirtland Shale	1,599
Fruitland Coal	1,863
Pictured Cliffs Ss.	1,982
Lewis Shale	2,119
Cliffhouse Ss.	2,819
Menefee Fn.	3,531
Point Lookout Ss.	4,238
Mancos Shale	4,465
Mancos Silt	5,044
Gallup Fn.	5,271
Horizontal Target	5,520
Base Gallup	5,588

The referenced surface elevation is 6812', KB 6828'

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

Substance	Formation	Depth (TVD) units = feet
Water/Gas	Fruitland Coal	1,863
Oil/Gas	Pictured Cliffs Ss.	1,982
Oil/Gas	Cliffhouse Ss.	2,819
Gas	Menefee Fn.	3,531
Oil/Gas	Point Lookout Ss.	4,238
Oil/Gas	Mancos Shale	4,465
Oil/Gas	Mancos Silt	5,044
Oil/Gas	Gallup Fn.	5,271

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.
- 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"	16"	42.09#	
Surface	0'-500'	12 1/4"	9 5/8"	36#	J55, STC New
Intermediate	0'-5827'	8 3/4"	7"	26#	J55, LTC New
Production Liner	5627'-9854'	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.

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'	247 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'-5827'	100% open hole excess Stage 1 Lead: 515 sks Stage 1 Tail: 392 sks	Lead: PremLite + 3% CaCl + 0.25lb/sk CelloFlake + 5lb/sk LCM, 12.1ppg 2.13cuft/sk Tail: Type III Cmt + 1% CaCl + 0.25lb/sk Cello Flake 14.5ppg 1.38cuft/sk	Surface	1 every 3 joints through water bearing zones
Production Liner	5627'-9854'	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	5497'/9854'	Gallup

6. DRILLING FLUIDS PROGRAM

a) Surface through Intermediate Casing Point:

Lybrook I14-2306 02H

SHL: 1908' FSL 554' FEL Sec 14 23N 06W

BHL: 920' FSL 330' FWL Sec 14 23N 06W

Rio Arriba, New Mexico

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'-5487'/5827'	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"	5487'/5827'- 5497'/9854'	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 +/- 2583 psi based on a 9.0 ppg at 5520' 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 February 7, 2015. 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: 1908' FSL & 554' FEL Sec 14 23N 04 County: Rio Arriba WELL: Lybrook I14-2306 02H			Encana Natural Gas WELL SUMMARY			ENG: Sara Smaltz RIG: Aztec 950 GLE: 5811.7 RKBE: 5827.7			8/12/14
MWD LWD	OPEN HOLE LOGGING	FORM	DEPTH			HOLE SIZE	CASING SPECS	MW MUD TYPE	DEVIATION INFORMATION
			TVD	MD					
			60	60'		30	16" 42.09# 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	San Jose Fn.	n/a						
		Nacimiento Fn. 9 5/8" Csg	surface 500	500.00		12 1/4	9 5/8" 36ppf J55 STC TOC Surface with 100% OH Excess: 247 sks of HALCEM™ SYSTEM + 2% CaCl2 + 0.125lbm/sk Poly-E-Flake. Mixed at 15.8 ppg. Yield 1.174 cuft/sk.	Fresh wtr 8.3-10	Vertical <1°
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. Kirtland Shale	1,440 1,599						
		Fruitland Coal	1,863						
		Pictured Cliffs Ss. Lewis Shale	1,982 2,119						
		Cliffhouse Ss. Menelee Fn.	2,819 3,531						
		Point Lookout Ss. Mancos Shale	4,238 4,465						
Surveys every 30' through the curve	Mud logger onsite	KOP	2,500	2,500			7" 26ppf J55 LTC TOC @ surface (100% OH excess - 70% Lead 30% Tail) Stage 1 Total: 908sks Stage 1 Lead: 516 sks HALCEM™ SYSTEM + 0.2% HR-5 + 5lbm/sk Kol-Seal + 0.125lbm/sk Poly-E-Flake. Mixed at 12.3 ppg. Yield 1.948 cuft/sk. Stage 1 Tail: 392 sks VARICEM™ CEMENT + .15% CFR-3 + 5lbm/sk Kol-Seal + 0.125% Poly-E-Flake. Mixed at 13.5 ppg. Yield 1.308 cuft/sk.	Fresh Wtr 8.3-10	Vertical <1°
		Mancos Silt	5,044						
		Gallup Fn.	5,271						
Surveys every stand to TD unless directed otherwise by Geologist	No OH Logs	7" Csg	5,487	5,827'					
		Horizontal Target TD	5,520 5,497	9,854		6 1/8	200' overlap at liner top 4028' Drilled Lateral		Horz Inc/TVD 90.3deg/5519.7ft
		Base Gallup	5,588				4 1/2" 11.6ppf SB80 LTC Running external swellable csg packers for isolation of prod string	WBM 8.3-10	TD = 9854.3 MD
MWD Gamma Directional									

NOTES:

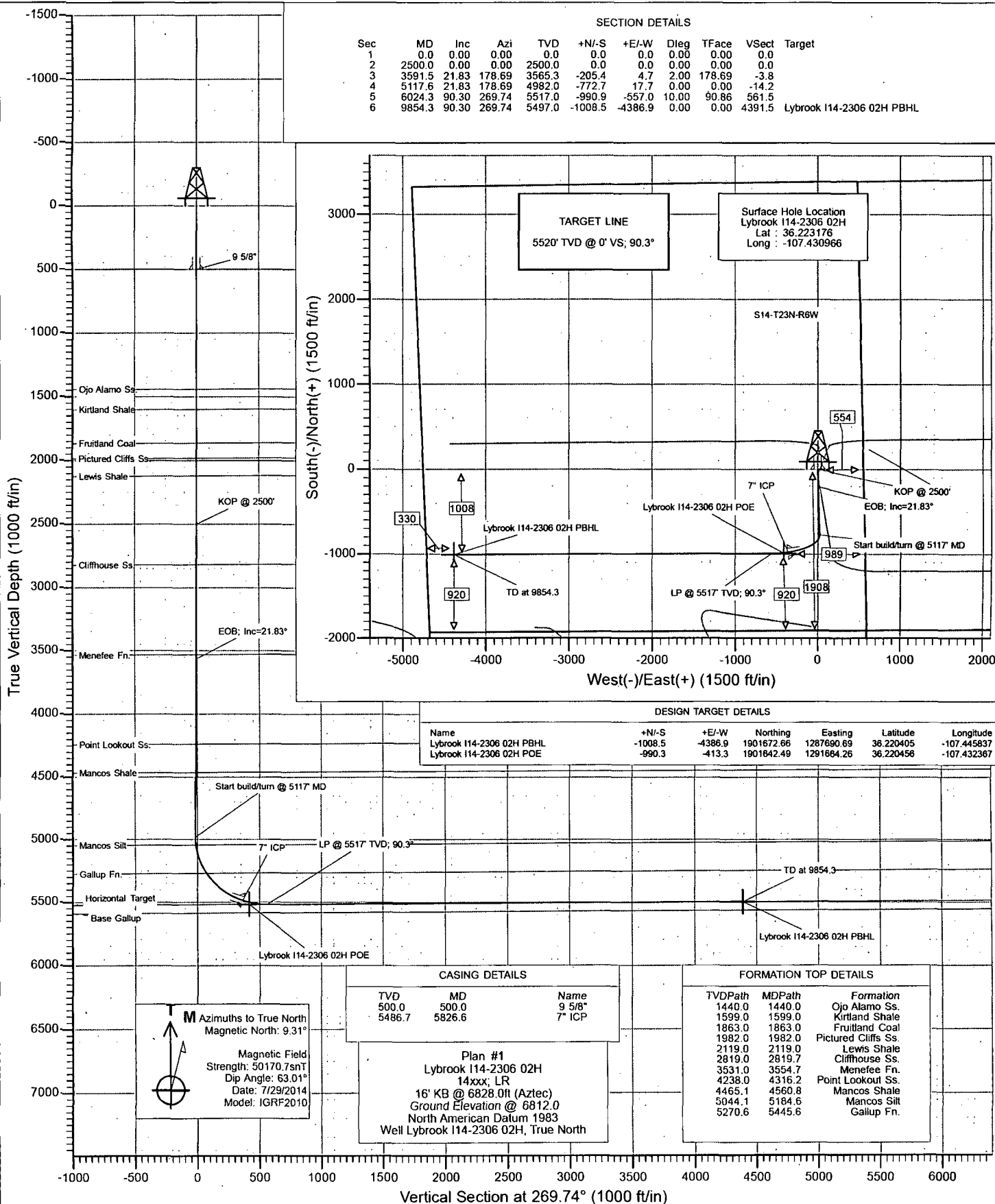
- 1) Drill with 30" bit to 60', set 20" 94# conductor pipe
- 2) Drill surface to 500', R&C 9 5/8" casing
- 3) N/U BOP and surface equipment
- 4) Drill to KOP of 2500', 8 3/4 inch holesize
- 5) Start curve at 10deg/100' build rate
- 6) Drill to csg point of 5827' MD
- 7) R&C 7" csg, circ cmt to surface, switch to WBM
- 8) Land at 90 deg, drill lateral to 9854' run 4 1/2 inch liner with external swellable csg packers

encana

Project: Rio Arriba County, NM
Site: S14-T23N-R6W
Well: Lybrook I14-2306 02H
Wellbore: Hz
Design: Plan #1



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	
3	3591.5	21.83	178.69	3565.3	-205.4	4.7	2.00	178.69	-3.8	
4	5117.6	21.83	178.69	4982.0	-772.7	17.7	0.00	0.00	-14.2	
5	6024.3	90.30	269.74	5517.0	-990.9	-557.0	10.00	90.86	561.5	
6	9854.3	90.30	269.74	5497.0	-1008.5	-4386.9	0.00	0.00	4391.5	Lybrook I14-2306 02H PBHL



Planning Report

Database: USA EDM 5000 Multi Users DB
Company: EnCana Oil & Gas (USA) Inc
Project: Rio Arriba County, NM
Site: S14-T23N-R6W
Well: Lybrook I14-2306 02H
Wellbore: Hz
Design: Plan #1

Local Co-ordinate Reference: Well Lybrook I14-2306 02H
TVD Reference: 16' KB @ 6828.0ft (Aztec)
MD Reference: 16' KB @ 6828.0ft (Aztec)
North Reference: True
Survey Calculation Method: Minimum Curvature

Project	Rio Arriba 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	S14-T23N-R6W			
Site Position:		Northing:	1,900,796.67 ft	Latitude: 36.218032
From:	Lat/Long	Easting:	1,288,664.11 ft	Longitude: -107.442501
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence: -0.70 °

Well	Lybrook I14-2306 02H			
Well Position	+N/-S	0.0 ft	Northing:	1,902,627.64 ft
	+E/-W	0.0 ft	Easting:	1,292,089.58 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level: 6,812.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/29/2014	9.31	63.01	50,171

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	269.74

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	
3,591.5	21.83	178.69	3,565.3	-205.4	4.7	2.00	2.00	0.00	178.69	
5,117.6	21.83	178.69	4,982.0	-772.7	17.7	0.00	0.00	0.00	0.00	
6,024.3	90.30	269.74	5,517.0	-990.9	-557.0	10.00	7.55	10.04	90.86	
9,854.3	90.30	269.74	5,497.0	-1,008.5	-4,386.9	0.00	0.00	0.00	0.00	Lybrook I14-2306 02H

Planning Report

Database: USA EDM 5000 Multi Users DB
Company: EnCana Oil & Gas (USA) Inc
Project: Rio Arriba County, NM
Site: S14-T23N-R6W
Well: Lybrook 114-2306 02H
Wellbore: Hz
Design: Plan #1

Local Co-ordinate Reference: Well Lybrook 114-2306 02H
TVD Reference: 16' KB @ 6828.0ft (Aztec)
MD Reference: 16' KB @ 6828.0ft (Aztec)
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	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	
1,440.0	0.00	0.00	1,440.0	0.0	0.0	0.0	0.00	0.00	Ojo Alamo Ss.
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	
1,599.0	0.00	0.00	1,599.0	0.0	0.0	0.0	0.00	0.00	Kirtland 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	
1,863.0	0.00	0.00	1,863.0	0.0	0.0	0.0	0.00	0.00	Fruitland Coal
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	
1,982.0	0.00	0.00	1,982.0	0.0	0.0	0.0	0.00	0.00	Pictured Cliffs Ss.
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	
2,119.0	0.00	0.00	2,119.0	0.0	0.0	0.0	0.00	0.00	Lewis Shale
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	KOP @ 2500'
2,600.0	2.00	178.69	2,600.0	-1.7	0.0	0.0	2.00	2.00	
2,700.0	4.00	178.69	2,699.8	-7.0	0.2	-0.1	2.00	2.00	
2,800.0	6.00	178.69	2,799.5	-15.7	0.4	-0.3	2.00	2.00	
2,819.7	6.39	178.69	2,819.0	-17.8	0.4	-0.3	2.00	2.00	Cliffhouse Ss.
2,900.0	8.00	178.69	2,898.7	-27.9	0.6	-0.5	2.00	2.00	
3,000.0	10.00	178.69	2,997.5	-43.5	1.0	-0.8	2.00	2.00	
3,100.0	12.00	178.69	3,095.6	-62.6	1.4	-1.2	2.00	2.00	
3,200.0	14.00	178.69	3,193.1	-85.1	1.9	-1.6	2.00	2.00	
3,300.0	16.00	178.69	3,289.6	-110.9	2.5	-2.0	2.00	2.00	
3,400.0	18.00	178.69	3,385.3	-140.2	3.2	-2.6	2.00	2.00	
3,500.0	20.00	178.69	3,479.8	-172.7	4.0	-3.2	2.00	2.00	
3,554.7	21.09	178.69	3,531.0	-191.9	4.4	-3.5	2.00	2.00	Menefee Fn.
3,591.5	21.83	178.69	3,565.3	-205.4	4.7	-3.8	2.00	2.00	EOB; Inc=21.83°
3,600.0	21.83	178.69	3,573.2	-208.5	4.8	-3.8	0.00	0.00	
3,700.0	21.83	178.69	3,666.0	-245.7	5.6	-4.5	0.00	0.00	
3,800.0	21.83	178.69	3,758.8	-282.9	6.5	-5.2	0.00	0.00	
3,900.0	21.83	178.69	3,851.7	-320.1	7.3	-5.9	0.00	0.00	
4,000.0	21.83	178.69	3,944.5	-357.2	8.2	-6.6	0.00	0.00	
4,100.0	21.83	178.69	4,037.3	-394.4	9.0	-7.2	0.00	0.00	
4,200.0	21.83	178.69	4,130.1	-431.6	9.9	-7.9	0.00	0.00	
4,300.0	21.83	178.69	4,223.0	-468.8	10.7	-8.6	0.00	0.00	

Planning Report

Database: USA EDM 5000 Multi Users DB
Company: EnCana Oil & Gas (USA) Inc
Project: Rio Arriba County, NM
Site: S14-T23N-R6W
Well: Lybrook I14-2306 02H
Wellbore: Hz
Design: Plan #1

Local Co-ordinate Reference: Well Lybrook I14-2306 02H
TVD Reference: 16' KB @ 6828.0ft (Aztec)
MD Reference: 16' KB @ 6828.0ft (Aztec)
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
4,316.2	21.83	178.69	4,238.0	-474.8	10.9	-8.7	0.00	0.00	Point Lookout Ss.
4,400.0	21.83	178.69	4,315.8	-506.0	11.6	-9.3	0.00	0.00	
4,500.0	21.83	178.69	4,408.6	-543.1	12.4	-10.0	0.00	0.00	
4,560.8	21.83	178.69	4,465.1	-565.7	13.0	-10.4	0.00	0.00	Mancos Shale
4,600.0	21.83	178.69	4,501.5	-580.3	13.3	-10.7	0.00	0.00	
4,700.0	21.83	178.69	4,594.3	-617.5	14.1	-11.3	0.00	0.00	
4,800.0	21.83	178.69	4,687.1	-654.7	15.0	-12.0	0.00	0.00	
4,900.0	21.83	178.69	4,779.9	-691.8	15.9	-12.7	0.00	0.00	
5,000.0	21.83	178.69	4,872.8	-729.0	16.7	-13.4	0.00	0.00	
5,100.0	21.83	178.69	4,965.6	-766.2	17.6	-14.1	0.00	0.00	
5,117.6	21.83	178.69	4,982.0	-772.7	17.7	-14.2	0.00	0.00	Start build/turn @ 5117' MD
5,184.6	22.69	196.29	5,044.1	-797.6	14.4	-10.7	10.00	1.28	Mancos Silt
5,200.0	23.15	200.06	5,058.2	-803.3	12.5	-8.8	10.00	2.96	
5,300.0	27.94	220.58	5,148.6	-839.7	-9.5	13.4	10.00	4.80	
5,400.0	34.87	234.53	5,234.0	-874.1	-48.2	52.1	10.00	6.92	
5,445.6	38.44	239.30	5,270.6	-889.0	-71.0	75.0	10.00	7.82	Gallup Fn.
5,500.0	42.90	244.08	5,311.8	-905.7	-102.2	106.3	10.00	8.21	
5,600.0	51.50	251.04	5,379.8	-933.3	-170.0	174.2	10.00	8.61	
5,700.0	60.43	256.48	5,435.7	-956.3	-249.5	253.8	10.00	8.93	
5,800.0	69.55	261.03	5,477.9	-973.8	-338.3	342.7	10.00	9.12	
5,826.6	72.00	262.14	5,486.7	-977.5	-363.1	367.5	10.00	9.19	7" ICP
5,900.0	78.77	265.06	5,505.2	-985.4	-433.6	438.1	10.00	9.23	
6,000.0	88.04	268.83	5,516.7	-990.6	-532.7	537.2	10.00	9.27	
6,024.3	90.30	269.74	5,517.0	-990.9	-557.0	561.5	10.00	9.28	LP @ 5517' TVD; 90.3°
6,100.0	90.30	269.74	5,516.7	-991.3	-632.7	637.2	0.00	0.00	
6,200.0	90.30	269.74	5,516.1	-991.7	-732.7	737.2	0.00	0.00	
6,300.0	90.30	269.74	5,515.6	-992.2	-832.7	837.2	0.00	0.00	
6,400.0	90.30	269.74	5,515.1	-992.6	-932.7	937.2	0.00	0.00	
6,500.0	90.30	269.74	5,514.6	-993.1	-1,032.7	1,037.2	0.00	0.00	
6,600.0	90.30	269.74	5,514.0	-993.6	-1,132.7	1,137.2	0.00	0.00	
6,700.0	90.30	269.74	5,513.5	-994.0	-1,232.7	1,237.2	0.00	0.00	
6,800.0	90.30	269.74	5,513.0	-994.5	-1,332.7	1,337.2	0.00	0.00	
6,900.0	90.30	269.74	5,512.5	-994.9	-1,432.7	1,437.2	0.00	0.00	
7,000.0	90.30	269.74	5,511.9	-995.4	-1,532.7	1,537.2	0.00	0.00	
7,100.0	90.30	269.74	5,511.4	-995.9	-1,632.7	1,637.2	0.00	0.00	
7,200.0	90.30	269.74	5,510.9	-996.3	-1,732.7	1,737.2	0.00	0.00	
7,300.0	90.30	269.74	5,510.4	-996.8	-1,832.7	1,837.2	0.00	0.00	
7,400.0	90.30	269.74	5,509.8	-997.2	-1,932.7	1,937.2	0.00	0.00	
7,500.0	90.30	269.74	5,509.3	-997.7	-2,032.7	2,037.2	0.00	0.00	
7,600.0	90.30	269.74	5,508.8	-998.2	-2,132.7	2,137.2	0.00	0.00	
7,700.0	90.30	269.74	5,508.3	-998.6	-2,232.7	2,237.2	0.00	0.00	
7,800.0	90.30	269.74	5,507.8	-999.1	-2,332.7	2,337.2	0.00	0.00	
7,900.0	90.30	269.74	5,507.2	-999.5	-2,432.7	2,437.2	0.00	0.00	
8,000.0	90.30	269.74	5,506.7	-1,000.0	-2,532.7	2,537.2	0.00	0.00	
8,100.0	90.30	269.74	5,506.2	-1,000.4	-2,632.7	2,637.2	0.00	0.00	
8,200.0	90.30	269.74	5,505.7	-1,000.9	-2,732.7	2,737.2	0.00	0.00	
8,300.0	90.30	269.74	5,505.1	-1,001.4	-2,832.7	2,837.2	0.00	0.00	
8,400.0	90.30	269.74	5,504.6	-1,001.8	-2,932.6	2,937.2	0.00	0.00	
8,500.0	90.30	269.74	5,504.1	-1,002.3	-3,032.6	3,037.2	0.00	0.00	
8,600.0	90.30	269.74	5,503.6	-1,002.7	-3,132.6	3,137.2	0.00	0.00	
8,700.0	90.30	269.74	5,503.0	-1,003.2	-3,232.6	3,237.2	0.00	0.00	
8,800.0	90.30	269.74	5,502.5	-1,003.7	-3,332.6	3,337.2	0.00	0.00	

Planning Report

Database: USA EDM 5000 Multi Users DB
Company: EnCana Oil & Gas (USA) Inc
Project: Rio Arriba County, NM
Site: S14-T23N-R6W
Well: Lybrook I14-2306 02H
Wellbore: Hz
Design: Plan #1

Local Co-ordinate Reference: Well Lybrook I14-2306 02H
TVD Reference: 16' KB @ 6828.0ft (Aztec)
MD Reference: 16' KB @ 6828.0ft (Aztec)
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	90.30	269.74	5,502.0	-1,004.1	-3,432.6	3,437.2	0.00	0.00	
9,000.0	90.30	269.74	5,501.5	-1,004.6	-3,532.6	3,537.2	0.00	0.00	
9,100.0	90.30	269.74	5,500.9	-1,005.0	-3,632.6	3,637.2	0.00	0.00	
9,200.0	90.30	269.74	5,500.4	-1,005.5	-3,732.6	3,737.2	0.00	0.00	
9,300.0	90.30	269.74	5,499.9	-1,006.0	-3,832.6	3,837.2	0.00	0.00	
9,400.0	90.30	269.74	5,499.4	-1,006.4	-3,932.6	3,937.2	0.00	0.00	
9,500.0	90.30	269.74	5,498.9	-1,006.9	-4,032.6	4,037.2	0.00	0.00	
9,600.0	90.30	269.74	5,498.3	-1,007.3	-4,132.6	4,137.1	0.00	0.00	
9,700.0	90.30	269.74	5,497.8	-1,007.8	-4,232.6	4,237.1	0.00	0.00	
9,800.0	90.30	269.74	5,497.3	-1,008.2	-4,332.6	4,337.1	0.00	0.00	
9,854.3	90.30	269.74	5,497.0	-1,008.5	-4,386.9	4,391.5	0.00	0.00	TD at 9854.3

Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Lybrook I14-2306 02H P - plan misses target center by 17.8ft at 5884.1ft MD (5501.9 TVD, -983.9 N, -418.2 E) - Point	0.00	0.00	5,517.8	-990.3	-413.3	1,901,642.49	1,291,664.26	36.220456	-107.432367
Lybrook I14-2306 02H P - plan hits target center - Point	0.00	0.00	5,497.0	-1,008.5	-4,386.9	1,901,672.66	1,287,690.69	36.220405	-107.445837

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
5,826.6	5,486.7	7" ICP	0.000	0.000

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,440.0	1,440.0	Ojo Alamo Ss.		-0.30	269.74
1,599.0	1,599.0	Kirtland Shale		-0.30	269.74
1,863.0	1,863.0	Fruitland Coal		-0.30	269.74
1,982.0	1,982.0	Pictured Cliffs Ss.		-0.30	269.74
2,119.0	2,119.0	Lewis Shale		-0.30	269.74
2,819.7	2,819.0	Cliffhouse Ss.		-0.30	269.74
3,554.7	3,531.0	Menefee Fn.		-0.30	269.74
4,316.2	4,238.0	Point Lookout Ss.		-0.30	269.74
4,560.8	4,465.0	Mancos Shale		-0.30	269.74
5,184.6	5,044.0	Mancos Silt		-0.30	269.74
5,445.6	5,271.0	Gallup Fn.		-0.30	269.74

Planning Report

Database: USA EDM 5000 Multi Users DB
Company: EnCana Oil & Gas (USA) Inc
Project: Rio Arriba County, NM
Site: S14-T23N-R6W
Well: Lybrook I14-2306 02H
Wellbore: Hz
Design: Plan #1

Local Co-ordinate Reference: Well Lybrook I14-2306 02H
TVD Reference: 16' KB @ 6828.0ft (Aztec)
MD Reference: 16' KB @ 6828.0ft (Aztec)
North Reference: True
Survey Calculation Method: Minimum Curvature

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,500.0	2,500.0	0.0	0.0	KOP @ 2500'
3,591.5	3,565.3	-205.4	4.7	EOB; Inc=21.83°
5,117.6	4,982.0	-772.7	17.7	Start build/turn @ 5117' MD
6,024.3	5,517.0	-990.9	-557.0	LP @ 5517' TVD; 90.3°
9,854.3	5,497.0	-1,008.5	-4,386.9	TD at 9854.3

EnCana Oil & Gas (USA) Inc

Rio Arriba County, NM

S14-T23N-R6W

Lybrook I14-2306 02H

Hz

Plan #1

Anticollision Report

30 July, 2014

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc
Project: Rio Arriba County, NM
Reference Site: S14-T23N-R6W
Site Error: 0.0ft
Reference Well: Lybrook I14-2306 02H
Well Error: 0.0ft
Reference Wellbore: Hz
Reference Design: Plan #1

Local Co-ordinate Reference: Well Lybrook I14-2306 02H
TVD Reference: 16' KB @ 6828.0ft (Aztec)
MD Reference: 16' KB @ 6828.0ft (Aztec)
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	Plan #1
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	MD Interval 100.0ft
Depth Range:	Unlimited
Results Limited by:	Maximum center-center distance of 1,286.7ft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	Systematic Ellipse
Scan Method:	Closest Approach 3D
Error Surface:	Elliptical Conic

Survey Tool Program		Date 7/30/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	9,854.3	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						
S14-T23N-R6W						
GCU M14-2306 01H - Hz - Plan #1	8,655.9	5,321.2	962.0	876.7	11.271	CC, ES
GCU M14-2306 01H - Hz - Plan #1	8,900.0	5,281.5	990.5	900.8	11.040	SF
GCU P14-2306 01H - Hz - Plan #2	6,876.1	5,513.4	852.2	795.0	14.880	CC
GCU P14-2306 01H - Hz - Plan #2	6,900.0	5,513.5	852.6	794.8	14.755	ES
GCU P14-2306 01H - Hz - Plan #2	7,200.0	5,515.2	911.7	847.5	14.190	SF
Lybrook I14-2306 01H - Hz - Plan #1	2,500.0	2,500.0	29.9	21.2	3.444	CC, ES, SF
Lybrook I14-2306 03H - Hz - Plan #1	2,599.1	2,599.9	23.4	14.3	2.582	CC
Lybrook I14-2306 03H - Hz - Plan #1	2,600.0	2,600.8	23.4	14.3	2.581	ES, SF
Lybrook I14-2306 04H - Hz - Plan #1	2,000.0	2,000.0	60.5	53.5	8.729	CC, ES
Lybrook I14-2306 04H - Hz - Plan #1	2,100.0	2,097.9	62.1	54.9	8.545	SF
S15-T23N-R6W						
GCU O15-2306 02H - Hz - Plan #2	9,854.3	6,000.0	1,093.4	948.6	7.554	CC, ES, SF

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc
Project: Rio Arriba County, NM
Reference Site: S14-T23N-R6W
Site Error: 0.0ft
Reference Well: Lybrook I14-2306 02H
Well Error: 0.0ft
Reference Wellbore: HZ
Reference Design: Plan #1

Local Co-ordinate Reference: Well Lybrook I14-2306 02H
TVD Reference: 16' KB @ 6828.0ft (Aztec)
MD Reference: 16' KB @ 6828.0ft (Aztec)
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 S14-T23N-R6W - GCU M14-2306 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			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			
7,800.0	5,507.8	5,550.0	5,466.4	60.3	12.0	-82.27	-2,008.4	-3,064.8	1,254.8	1,185.1	69.65	18.014			
7,900.0	5,507.2	5,515.6	5,444.8	62.6	11.6	-80.92	-1,991.1	-3,085.1	1,197.9	1,128.4	71.58	16.736			
8,000.0	5,506.7	5,481.7	5,422.0	65.0	11.3	-79.47	-1,975.1	-3,104.4	1,145.2	1,071.8	73.45	15.592			
8,100.0	5,506.2	5,450.0	5,399.3	67.4	11.1	-78.03	-1,961.1	-3,121.6	1,097.4	1,022.1	75.29	14.577			
8,200.0	5,505.7	5,422.4	5,378.7	69.8	10.8	-76.70	-1,949.7	-3,136.0	1,055.5	978.3	77.14	13.683			
8,300.0	5,505.1	5,400.0	5,361.3	72.2	10.7	-75.58	-1,941.1	-3,147.1	1,020.3	941.2	79.03	12.909			
8,400.0	5,504.6	5,372.9	5,339.5	74.6	10.5	-74.19	-1,931.3	-3,160.0	992.7	911.9	80.77	12.291			
8,500.0	5,504.1	5,350.0	5,320.5	77.0	10.4	-72.98	-1,923.7	-3,170.3	973.6	891.0	82.53	11.797			
8,600.0	5,503.6	5,331.5	5,304.9	79.4	10.3	-71.99	-1,918.0	-3,178.3	963.5	879.2	84.36	11.422			
8,655.9	5,503.3	5,321.2	5,296.0	80.7	10.2	-71.44	-1,915.0	-3,182.6	962.0	876.7	85.36	11.271 CC, ES			
8,700.0	5,503.0	5,300.0	5,277.5	81.8	10.1	-70.28	-1,909.1	-3,191.1	963.2	877.5	85.72	11.236			
8,800.0	5,502.5	5,300.0	5,277.5	84.2	10.1	-70.28	-1,909.1	-3,191.1	972.1	884.0	88.04	11.042			
8,900.0	5,502.0	5,281.5	5,261.0	86.7	10.0	-69.27	-1,904.5	-3,198.2	990.5	900.8	89.73	11.040 SF			
9,000.0	5,501.5	5,267.4	5,248.3	89.1	9.9	-68.50	-1,901.2	-3,203.3	1,018.0	926.5	91.52	11.123			
9,100.0	5,500.9	5,250.0	5,232.5	91.5	9.8	-67.54	-1,897.4	-3,209.3	1,053.8	960.7	93.15	11.314			
9,200.0	5,500.4	5,250.0	5,232.5	93.9	9.8	-67.54	-1,897.4	-3,209.3	1,097.3	1,001.9	95.42	11.500			
9,300.0	5,499.9	5,231.2	5,215.1	96.4	9.8	-66.51	-1,893.8	-3,215.5	1,147.4	1,050.4	96.93	11.837			
9,400.0	5,499.4	5,220.8	5,205.4	98.8	9.7	-65.95	-1,892.0	-3,218.7	1,203.5	1,104.7	98.75	12.187			
9,500.0	5,498.9	5,200.0	5,185.7	101.3	9.6	-64.82	-1,888.7	-3,224.8	1,264.9	1,164.8	100.07	12.640			

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc
 Project: Rio Arriba County, NM
 Reference Site: S14-T23N-R6W
 Site Error: 0.0ft
 Reference Well: Lybrook I14-2306 02H
 Well Error: 0.0ft
 Reference Wellbore: HZ
 Reference Design: Plan #1

Local Co-ordinate Reference: Well Lybrook I14-2306 02H
 TVD Reference: 16' KB @ 6828.0ft (Aztec)
 MD Reference: 16' KB @ 6828.0ft (Aztec)
 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 S14-T23N-R6W - GCU P14-2306 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		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)			
6,000.0	5,516.7	5,499.3	5,160.5	23.3	27.4	-59.86	-1,749.7	-1,403.0	1,222.2	1,183.5	38.64	31.831	
6,100.0	5,516.7	5,503.0	5,163.8	24.6	27.4	-62.56	-1,751.3	-1,403.1	1,152.6	1,111.3	41.32	27.894	
6,200.0	5,516.1	5,505.4	5,165.9	26.0	27.4	-62.72	-1,752.3	-1,403.1	1,087.8	1,044.6	43.25	25.152	
6,300.0	5,515.6	5,507.3	5,167.6	27.6	27.4	-62.84	-1,753.1	-1,403.2	1,028.7	983.5	45.24	22.740	
6,400.0	5,515.1	5,508.8	5,169.0	29.4	27.4	-62.95	-1,753.8	-1,403.2	976.2	928.9	47.27	20.654	
6,500.0	5,514.6	5,510.1	5,170.1	31.3	27.4	-63.03	-1,754.4	-1,403.3	931.5	882.2	49.33	18.885	
6,600.0	5,514.0	5,511.1	5,171.1	33.3	27.4	-63.10	-1,754.9	-1,403.3	895.9	844.4	51.42	17.424	
6,700.0	5,513.5	5,512.1	5,171.9	35.3	27.4	-63.17	-1,755.3	-1,403.3	870.3	816.7	53.52	16.259	
6,800.0	5,513.0	5,512.8	5,172.6	37.4	27.4	-63.22	-1,755.6	-1,403.3	855.6	800.0	55.65	15.376	
6,876.1	5,512.6	5,513.4	5,173.1	39.1	27.4	-63.25	-1,755.9	-1,403.3	852.2	795.0	57.27	14.880 CC	
6,900.0	5,512.5	5,513.5	5,173.2	39.6	27.4	-63.26	-1,755.9	-1,403.3	852.6	794.8	57.78	14.755 ES	
7,000.0	5,511.9	5,514.1	5,173.7	41.8	27.4	-63.31	-1,756.2	-1,403.3	861.2	801.3	59.93	14.370	
7,100.0	5,511.4	5,514.7	5,174.2	44.0	27.4	-63.34	-1,756.5	-1,403.3	881.2	819.1	62.09	14.192	
7,200.0	5,510.9	5,515.2	5,174.6	46.3	27.4	-63.37	-1,756.7	-1,403.3	911.7	847.5	64.25	14.190 SF	
7,300.0	5,510.4	5,515.6	5,175.0	48.6	27.4	-63.40	-1,756.9	-1,403.3	951.8	885.4	66.42	14.330	
7,400.0	5,509.8	5,516.0	5,175.4	50.9	27.4	-63.43	-1,757.1	-1,403.4	1,000.4	931.8	68.60	14.583	
7,500.0	5,509.3	5,516.3	5,175.7	53.2	27.4	-63.45	-1,757.2	-1,403.4	1,056.2	985.4	70.78	14.922	
7,600.0	5,508.8	5,516.7	5,176.0	55.5	27.4	-63.47	-1,757.4	-1,403.4	1,118.2	1,045.2	72.96	15.325	
7,700.0	5,508.3	5,517.0	5,176.2	57.9	27.4	-63.49	-1,757.5	-1,403.4	1,185.3	1,110.2	75.15	15.773	
7,800.0	5,507.8	5,517.2	5,176.5	60.3	27.4	-63.51	-1,757.6	-1,403.4	1,256.9	1,179.6	77.34	16.251	

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc
Project: Rio Arriba County, NM
Reference Site: S14-T23N-R6W
Site Error: 0.0ft
Reference Well: Lybrook I14-2306 02H
Well Error: 0.0ft
Reference Wellbore: Hz
Reference Design: Plan #1

Local Co-ordinate Reference: Well Lybrook I14-2306 02H
TVD Reference: 16' KB @ 6828.0ft (Aztec)
MD Reference: 16' KB @ 6828.0ft (Aztec)
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 S14-T23N-R6W - Lybrook I14-2306 01H - Hz - Plan #1

Survey Program: O-Geolink MWD

Offset Site Error: 0.0 ft

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)			
0.0	0.0	0.0	0.0	0.0	0.0	1.13	29.9	0.6	29.9				
100.0	100.0	100.0	100.0	0.1	0.1	1.13	29.9	0.6	29.9	29.6	0.29	101.834	
200.0	200.0	200.0	200.0	0.3	0.3	1.13	29.9	0.6	29.9	29.2	0.64	46.489	
300.0	300.0	300.0	300.0	0.5	0.5	1.13	29.9	0.6	29.9	28.9	0.99	30.120	
400.0	400.0	400.0	400.0	0.7	0.7	1.13	29.9	0.6	29.9	28.5	1.34	22.276	
500.0	500.0	500.0	500.0	0.8	0.8	1.13	29.9	0.6	29.9	28.2	1.69	17.674	
600.0	600.0	600.0	600.0	1.0	1.0	1.13	29.9	0.6	29.9	27.8	2.04	14.647	
700.0	700.0	700.0	700.0	1.2	1.2	1.13	29.9	0.6	29.9	27.5	2.39	12.506	
800.0	800.0	800.0	800.0	1.4	1.4	1.13	29.9	0.6	29.9	27.1	2.74	10.911	
900.0	900.0	900.0	900.0	1.5	1.5	1.13	29.9	0.6	29.9	26.8	3.09	9.677	
1,000.0	1,000.0	1,000.0	1,000.0	1.7	1.7	1.13	29.9	0.6	29.9	26.4	3.43	8.693	
1,100.0	1,100.0	1,100.0	1,100.0	1.9	1.9	1.13	29.9	0.6	29.9	26.1	3.78	7.891	
1,200.0	1,200.0	1,200.0	1,200.0	2.1	2.1	1.13	29.9	0.6	29.9	25.7	4.13	7.225	
1,300.0	1,300.0	1,300.0	1,300.0	2.2	2.2	1.13	29.9	0.6	29.9	25.4	4.48	6.662	
1,400.0	1,400.0	1,400.0	1,400.0	2.4	2.4	1.13	29.9	0.6	29.9	25.0	4.83	6.181	
1,500.0	1,500.0	1,500.0	1,500.0	2.6	2.6	1.13	29.9	0.6	29.9	24.7	5.18	5.764	
1,600.0	1,600.0	1,600.0	1,600.0	2.8	2.8	1.13	29.9	0.6	29.9	24.3	5.53	5.400	
1,700.0	1,700.0	1,700.0	1,700.0	2.9	2.9	1.13	29.9	0.6	29.9	24.0	5.88	5.080	
1,800.0	1,800.0	1,800.0	1,800.0	3.1	3.1	1.13	29.9	0.6	29.9	23.6	6.23	4.795	
1,900.0	1,900.0	1,900.0	1,900.0	3.3	3.3	1.13	29.9	0.6	29.9	23.3	6.58	4.540	
2,000.0	2,000.0	2,000.0	2,000.0	3.5	3.5	1.13	29.9	0.6	29.9	22.9	6.93	4.312	
2,100.0	2,100.0	2,100.0	2,100.0	3.6	3.6	1.13	29.9	0.6	29.9	22.6	7.27	4.105	
2,200.0	2,200.0	2,200.0	2,200.0	3.8	3.8	1.13	29.9	0.6	29.9	22.2	7.62	3.917	
2,300.0	2,300.0	2,300.0	2,300.0	4.0	4.0	1.13	29.9	0.6	29.9	21.9	7.97	3.745	
2,400.0	2,400.0	2,400.0	2,400.0	4.2	4.2	1.13	29.9	0.6	29.9	21.5	8.32	3.588	
2,500.0	2,500.0	2,500.0	2,500.0	4.3	4.3	1.13	29.9	0.6	29.9	21.2	8.67	3.444 CC, ES, SF	
2,600.0	2,600.0	2,600.0	2,600.0	4.5	4.5	-177.69	29.9	0.6	31.6	22.6	9.02	3.505	
2,700.0	2,699.8	2,699.8	2,699.8	4.7	4.7	-178.01	29.9	0.6	36.8	27.5	9.35	3.938	
2,800.0	2,799.5	2,799.5	2,799.5	4.9	4.9	-178.39	29.9	0.6	45.5	35.9	9.68	4.703	
2,900.0	2,898.7	2,898.7	2,898.7	5.1	5.0	-178.72	29.9	0.6	57.7	47.7	10.00	5.771	
3,000.0	2,897.5	2,897.5	2,897.5	5.3	5.2	-178.99	29.9	0.6	73.4	63.1	10.31	7.113	
3,100.0	3,095.6	3,092.6	3,092.6	5.5	5.4	-179.15	31.3	0.6	94.0	83.4	10.61	8.859	
3,200.0	3,193.1	3,185.4	3,185.2	5.8	5.5	-179.22	35.8	0.8	121.2	110.3	10.89	11.128	
3,300.0	3,289.6	3,275.2	3,274.8	6.1	5.7	-179.23	43.1	0.9	154.7	143.6	11.15	13.871	
3,400.0	3,385.3	3,361.8	3,360.8	6.5	5.9	-179.22	52.7	1.2	194.4	183.0	11.40	17.047	
3,500.0	3,479.8	3,450.3	3,448.6	6.9	6.0	-179.19	64.2	1.5	239.0	227.3	11.64	20.525	
3,600.0	3,573.2	3,538.2	3,535.7	7.4	6.2	-179.19	75.7	1.8	286.7	274.8	11.88	24.132	
3,700.0	3,666.0	3,625.3	3,622.1	7.9	6.4	-179.19	87.1	2.1	335.7	323.5	12.20	27.511	
3,800.0	3,758.8	3,712.5	3,708.6	8.4	6.6	-179.20	98.5	2.4	384.7	372.2	12.52	30.717	
3,900.0	3,851.7	3,799.7	3,795.0	9.0	6.8	-179.20	109.9	2.7	433.7	420.8	12.84	33.764	
4,000.0	3,944.5	3,886.9	3,881.4	9.6	7.0	-179.21	121.3	3.0	482.7	469.5	13.17	36.661	
4,100.0	4,037.3	3,974.0	3,967.8	10.1	7.2	-179.21	132.7	3.3	531.7	518.2	13.49	39.422	
4,200.0	4,130.1	4,061.2	4,054.3	10.7	7.4	-179.21	144.1	3.6	580.7	566.9	13.81	42.055	
4,300.0	4,223.0	4,148.4	4,140.7	11.3	7.6	-179.22	155.5	3.9	629.7	615.6	14.13	44.568	
4,400.0	4,315.8	4,235.6	4,227.1	11.9	7.8	-179.22	166.9	4.3	678.7	664.2	14.45	46.971	
4,500.0	4,408.6	4,322.7	4,313.5	12.5	8.0	-179.22	178.3	4.6	727.7	712.9	14.77	49.270	
4,600.0	4,501.5	4,409.9	4,400.0	13.2	8.2	-179.22	189.7	4.9	776.7	761.6	15.09	51.471	
4,700.0	4,594.3	4,497.1	4,486.4	13.8	8.4	-179.22	201.1	5.2	825.7	810.3	15.41	53.582	
4,800.0	4,687.1	4,584.3	4,572.8	14.4	8.6	-179.22	212.5	5.5	874.7	858.9	15.73	55.607	
4,900.0	4,779.9	4,671.4	4,659.2	15.0	8.8	-179.22	223.8	5.8	923.7	907.6	16.05	57.551	
5,000.0	4,872.8	4,758.6	4,745.6	15.7	9.1	-179.22	235.2	6.1	972.7	956.3	16.37	59.420	
5,100.0	4,965.6	4,845.8	4,832.1	16.3	9.3	-179.23	246.6	6.4	1,021.7	1,005.0	16.69	61.218	

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
Project: Rio Arriba County, NM
Reference Site: S14-T23N-R6W
Site Error: 0.0ft
Reference Well: Lybrook I14-2306 02H
Well Error: 0.0ft
Reference Wellbore: Hz
Reference Design: Plan #1

Local Co-ordinate Reference: Well Lybrook I14-2306 02H
TVD Reference: 16' KB @ 6828.0ft (Aztec)
MD Reference: 16' KB @ 6828.0ft (Aztec)
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 S14-T23N-R6W - Lybrook I14-2306 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			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		
5,200.0	5,058.2	4,932.7	4,918.3	17.0	9.5	156.75	258.0	6.7	1,070.5	1,053.4	17.11	62.555		
5,300.0	5,148.6	5,019.3	5,004.1	17.6	9.7	133.97	269.3	5.4	1,118.5	1,100.6	17.85	62.670		
5,400.0	5,234.0	5,110.5	5,093.4	18.2	10.0	118.40	281.0	-8.4	1,164.3	1,145.5	18.82	61.872		
5,500.0	5,311.8	5,208.1	5,185.3	18.9	10.2	107.92	292.8	-38.7	1,206.9	1,186.9	19.93	60.561		
5,600.0	5,379.8	5,314.1	5,277.8	19.6	10.6	100.80	304.6	-88.8	1,244.8	1,223.6	21.18	58.768		
5,700.0	5,435.7	5,430.7	5,386.9	20.3	11.2	96.03	315.8	-162.7	1,276.8	1,254.1	22.76	56.101		

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc
 Project: Rio Arriba County, NM
 Reference Site: S14-T23N-R6W
 Site Error: 0.0ft
 Reference Well: Lybrook I14-2306 02H
 Well Error: 0.0ft
 Reference Wellbore: Hz
 Reference Design: Plan #1

Local Co-ordinate Reference: Well Lybrook I14-2306 02H
 TVD Reference: 16' KB @ 6828.0ft (Aztec)
 MD Reference: 16' KB @ 6828.0ft (Aztec)
 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 S14-T23N-R6W - Lybrook I14-2306 03H - Hz - Plan #1

Survey Program: 0-Geolink MWD														Offset Site Error:	0.0 ft
Reference														Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-178.32	-178.32	-30.2	-0.9	30.2					
100.0	100.0	100.0	100.0	0.1	0.1	-178.32	-178.32	-30.2	-0.9	30.2	29.9	0.29	103.100		
200.0	200.0	200.0	200.0	0.3	0.3	-178.32	-178.32	-30.2	-0.9	30.2	29.6	0.64	47.067		
300.0	300.0	300.0	300.0	0.5	0.5	-178.32	-178.32	-30.2	-0.9	30.2	29.2	0.99	30.494		
400.0	400.0	400.0	400.0	0.7	0.7	-178.32	-178.32	-30.2	-0.9	30.2	28.9	1.34	22.553		
500.0	500.0	500.0	500.0	0.8	0.8	-178.32	-178.32	-30.2	-0.9	30.2	28.5	1.69	17.893		
600.0	600.0	600.0	600.0	1.0	1.0	-178.32	-178.32	-30.2	-0.9	30.2	28.2	2.04	14.829		
700.0	700.0	700.0	700.0	1.2	1.2	-178.32	-178.32	-30.2	-0.9	30.2	27.8	2.39	12.661		
800.0	800.0	800.0	800.0	1.4	1.4	-178.32	-178.32	-30.2	-0.9	30.2	27.5	2.74	11.046		
900.0	900.0	900.0	900.0	1.5	1.5	-178.32	-178.32	-30.2	-0.9	30.2	27.1	3.09	9.797		
1,000.0	1,000.0	1,000.0	1,000.0	1.7	1.7	-178.32	-178.32	-30.2	-0.9	30.2	26.8	3.43	8.801		
1,100.0	1,100.0	1,100.0	1,100.0	1.9	1.9	-178.32	-178.32	-30.2	-0.9	30.2	26.4	3.78	7.989		
1,200.0	1,200.0	1,200.0	1,200.0	2.1	2.1	-178.32	-178.32	-30.2	-0.9	30.2	26.1	4.13	7.315		
1,300.0	1,300.0	1,300.0	1,300.0	2.2	2.2	-178.32	-178.32	-30.2	-0.9	30.2	25.7	4.48	6.745		
1,400.0	1,400.0	1,400.0	1,400.0	2.4	2.4	-178.32	-178.32	-30.2	-0.9	30.2	25.4	4.83	6.258		
1,500.0	1,500.0	1,500.0	1,500.0	2.6	2.6	-178.32	-178.32	-30.2	-0.9	30.2	25.1	5.18	5.836		
1,600.0	1,600.0	1,600.0	1,600.0	2.8	2.8	-178.32	-178.32	-30.2	-0.9	30.2	24.7	5.53	5.467		
1,700.0	1,700.0	1,700.0	1,700.0	2.9	2.9	-178.32	-178.32	-30.2	-0.9	30.2	24.4	5.88	5.143		
1,800.0	1,800.0	1,800.0	1,800.0	3.1	3.1	-178.32	-178.32	-30.2	-0.9	30.2	24.0	6.23	4.854		
1,900.0	1,900.0	1,900.0	1,900.0	3.3	3.3	-178.32	-178.32	-30.2	-0.9	30.2	23.7	6.58	4.597		
2,000.0	2,000.0	2,000.0	2,000.0	3.5	3.5	-178.32	-178.32	-30.2	-0.9	30.2	23.3	6.93	4.365		
2,100.0	2,100.0	2,100.3	2,100.3	3.6	3.6	-179.76	-179.76	-29.8	-0.1	29.8	22.5	7.28	4.093		
2,200.0	2,200.0	2,200.5	2,200.4	3.8	3.8	175.68	175.68	-28.5	2.2	28.5	20.9	7.63	3.744		
2,300.0	2,300.0	2,300.6	2,300.4	4.0	4.0	167.26	167.26	-26.3	5.9	26.9	19.0	7.98	3.377		
2,400.0	2,400.0	2,400.5	2,400.1	4.2	4.2	154.19	154.19	-23.2	11.2	25.8	17.5	8.33	3.095		
2,500.0	2,500.0	2,501.0	2,500.3	4.3	4.4	136.57	136.57	-18.0	17.0	24.7	16.0	8.70	2.845		
2,599.1	2,599.1	2,599.9	2,598.8	4.5	4.6	-69.50	-69.50	-9.4	22.1	23.4	14.3	9.05	2.582 CC		
2,600.0	2,600.0	2,600.8	2,599.7	4.5	4.6	-69.82	-69.82	-9.3	22.2	23.4	14.3	9.06	2.581 ES, SF		
2,700.0	2,699.8	2,699.4	2,697.5	4.7	4.8	-107.06	-107.06	2.0	26.8	28.2	18.8	9.39	3.003		
2,800.0	2,799.5	2,797.2	2,794.5	4.9	5.0	-131.44	-131.44	13.6	31.3	42.9	33.2	9.71	4.418		
2,900.0	2,898.7	2,894.2	2,890.8	5.1	5.2	-144.26	-144.26	25.1	35.8	64.0	54.0	10.02	6.390		
3,000.0	2,997.5	2,990.4	2,986.1	5.3	5.4	-151.57	-151.57	36.4	40.2	89.8	79.4	10.33	8.690		
3,100.0	3,095.6	3,085.5	3,080.5	5.5	5.6	-156.21	-156.21	47.7	44.6	119.4	108.7	10.63	11.231		
3,200.0	3,193.1	3,179.5	3,173.7	5.8	5.8	-159.39	-159.39	58.8	49.0	152.6	141.6	10.92	13.972		
3,300.0	3,289.6	3,272.3	3,265.8	6.1	6.1	-161.71	-161.71	69.7	53.3	189.2	178.0	11.20	16.892		
3,400.0	3,385.3	3,363.7	3,356.5	6.5	6.3	-163.46	-163.46	80.5	57.5	229.1	217.6	11.47	19.977		
3,500.0	3,479.8	3,453.7	3,445.7	6.9	6.5	-164.83	-164.83	91.2	61.7	272.3	260.5	11.73	23.220		
3,600.0	3,573.2	3,542.1	3,533.4	7.4	6.7	-165.94	-165.94	101.6	65.7	318.6	306.6	11.98	26.594		
3,700.0	3,666.0	3,629.8	3,620.4	7.9	6.9	-167.01	-167.01	112.0	69.8	366.2	353.9	12.31	29.742		
3,800.0	3,758.8	3,717.6	3,707.4	8.4	7.2	-167.83	-167.83	122.3	73.9	414.0	401.3	12.65	32.728		
3,900.0	3,851.7	3,805.3	3,794.4	9.0	7.4	-168.49	-168.49	132.7	77.9	461.8	448.8	12.99	35.561		
4,000.0	3,944.5	3,893.0	3,881.5	9.6	7.6	-169.02	-169.02	143.1	82.0	509.6	496.3	13.32	38.253		
4,100.0	4,037.3	3,980.7	3,968.5	10.1	7.8	-169.46	-169.46	153.4	86.0	557.5	543.8	13.66	40.813		
4,200.0	4,130.1	4,068.5	4,055.5	10.7	8.1	-169.83	-169.83	163.8	90.1	605.4	591.4	14.00	43.251		
4,300.0	4,223.0	4,156.2	4,142.5	11.3	8.3	-170.15	-170.15	174.1	94.1	653.3	638.9	14.33	45.575		
4,400.0	4,315.8	4,243.9	4,229.5	11.9	8.5	-170.42	-170.42	184.5	98.2	701.2	686.5	14.67	47.793		
4,500.0	4,408.6	4,331.7	4,316.6	12.5	8.7	-170.66	-170.66	194.9	102.3	749.1	734.1	15.01	49.911		
4,600.0	4,501.5	4,419.4	4,403.6	13.2	9.0	-170.87	-170.87	205.2	106.3	797.1	781.7	15.35	51.936		
4,700.0	4,594.3	4,507.1	4,490.6	13.8	9.2	-171.06	-171.06	215.6	110.4	845.0	829.3	15.68	53.874		
4,800.0	4,687.1	4,594.8	4,577.6	14.4	9.4	-171.22	-171.22	226.0	114.4	893.0	876.9	16.02	55.731		
4,900.0	4,779.9	4,682.6	4,664.6	15.0	9.7	-171.37	-171.37	236.3	118.5	940.9	924.6	16.36	57.511		
5,000.0	4,872.8	4,770.3	4,751.6	15.7	9.9	-171.51	-171.51	246.7	122.5	988.9	972.2	16.70	59.219		

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: Rio Arriba County, NM
Reference Site: S14-T23N-R6W
Site Error: 0.0ft
Reference Well: Lybrook I14-2306 02H
Well Error: 0.0ft
Reference Wellbore: Hz
Reference Design: Plan #1

Local Co-ordinate Reference: Well Lybrook I14-2306 02H
TVD Reference: 16' KB @ 6828.0ft (Aztec)
MD Reference: 16' KB @ 6828.0ft (Aztec)
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 S14-T23N-R6W - Lybrook I14-2306 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		
5,100.0	4,965.8	4,858.0	4,838.7	16.3	10.1	-171.63	257.0	126.6	1,036.8	1,019.8	17.04	60.859		
5,200.0	5,058.2	4,945.2	4,925.2	17.0	10.4	164.27	267.4	130.6	1,085.4	1,068.1	17.23	62.999		
5,300.0	5,148.6	5,026.3	5,005.6	17.6	10.6	141.11	276.9	134.5	1,134.9	1,117.2	17.71	64.085		
5,400.0	5,234.0	5,083.9	5,062.4	18.2	10.8	124.84	283.7	141.3	1,185.7	1,167.2	18.58	63.822		
5,500.0	5,311.8	5,127.0	5,104.2	18.9	10.9	112.91	288.8	150.0	1,238.3	1,218.5	19.83	62.432		

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc
 Project: Rio Arriba County, NM
 Reference Site: S14-T23N-R6W
 Site Error: 0.0ft
 Reference Well: Lybrook I14-2306 02H
 Well Error: 0.0ft
 Reference Wellbore: Hz
 Reference Design: Plan #1

Local Co-ordinate Reference: Well Lybrook I14-2306 02H
 TVD Reference: 16' KB @ 6828.0ft (Aztec)
 MD Reference: 16' KB @ 6828.0ft (Aztec)
 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 S14-T23N-R6W - Lybrook I14-2306 04H - Hz - Plan #1

Survey Program: 0-Geolink MWD

Offset Site Error: 0.0 ft

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)			
0.0	0.0	0.0	0.0	0.0	0.0	-178.60	-60.4	-1.5	60.5				
100.0	100.0	100.0	100.0	0.1	0.1	-178.60	-60.4	-1.5	60.5	60.2	0.29	206.173	
200.0	200.0	200.0	200.0	0.3	0.3	-178.60	-60.4	-1.5	60.5	59.8	0.64	94.122	
300.0	300.0	300.0	300.0	0.5	0.5	-178.60	-60.4	-1.5	60.5	59.5	0.99	60.981	
400.0	400.0	400.0	400.0	0.7	0.7	-178.60	-60.4	-1.5	60.5	59.1	1.34	45.100	
500.0	500.0	500.0	500.0	0.8	0.8	-178.60	-60.4	-1.5	60.5	58.8	1.69	35.782	
600.0	600.0	600.0	600.0	1.0	1.0	-178.60	-60.4	-1.5	60.5	58.4	2.04	29.855	
700.0	700.0	700.0	700.0	1.2	1.2	-178.60	-60.4	-1.5	60.5	58.1	2.39	25.319	
800.0	800.0	800.0	800.0	1.4	1.4	-178.60	-60.4	-1.5	60.5	57.7	2.74	22.090	
900.0	900.0	900.0	900.0	1.5	1.5	-178.60	-60.4	-1.5	60.5	57.4	3.09	19.591	
1,000.0	1,000.0	1,000.0	1,000.0	1.7	1.7	-178.60	-60.4	-1.5	60.5	57.0	3.43	17.600	
1,100.0	1,100.0	1,100.0	1,100.0	1.9	1.9	-178.60	-60.4	-1.5	60.5	56.7	3.78	15.976	
1,200.0	1,200.0	1,200.0	1,200.0	2.1	2.1	-178.60	-60.4	-1.5	60.5	56.3	4.13	14.627	
1,300.0	1,300.0	1,300.0	1,300.0	2.2	2.2	-178.60	-60.4	-1.5	60.5	56.0	4.48	13.488	
1,400.0	1,400.0	1,400.0	1,400.0	2.4	2.4	-178.60	-60.4	-1.5	60.5	55.6	4.83	12.513	
1,500.0	1,500.0	1,500.0	1,500.0	2.6	2.6	-178.60	-60.4	-1.5	60.5	55.3	5.18	11.670	
1,600.0	1,600.0	1,600.0	1,600.0	2.8	2.8	-178.60	-60.4	-1.5	60.5	54.9	5.53	10.933	
1,700.0	1,700.0	1,700.0	1,700.0	2.9	2.9	-178.60	-60.4	-1.5	60.5	54.6	5.88	10.284	
1,800.0	1,800.0	1,800.0	1,800.0	3.1	3.1	-178.60	-60.4	-1.5	60.5	54.2	6.23	9.708	
1,900.0	1,900.0	1,900.0	1,900.0	3.3	3.3	-178.60	-60.4	-1.5	60.5	53.9	6.58	9.192	
2,000.0	2,000.0	2,000.0	2,000.0	3.5	3.5	-178.60	-60.4	-1.5	60.5	53.5	6.93	8.729 CC, ES	
2,100.0	2,100.0	2,097.9	2,097.9	3.6	3.6	-178.90	-62.1	-1.2	62.1	54.9	7.27	8.545 SF	
2,200.0	2,200.0	2,195.6	2,195.6	3.8	3.8	-179.71	-67.0	-0.3	67.2	59.6	7.62	8.819	
2,300.0	2,300.0	2,292.9	2,292.4	4.0	4.0	179.18	-75.2	1.1	75.6	67.6	7.96	9.493	
2,400.0	2,400.0	2,389.5	2,388.3	4.2	4.2	178.00	-86.5	3.0	87.3	79.0	8.30	10.516	
2,500.0	2,500.0	2,485.2	2,482.9	4.3	4.4	176.88	-100.8	5.5	102.4	93.8	8.65	11.845	
2,600.0	2,600.0	2,580.1	2,576.1	4.5	4.6	-2.82	-118.1	8.5	119.1	110.1	8.99	13.254	
2,700.0	2,699.8	2,674.5	2,668.3	4.7	4.9	-3.78	-138.3	12.0	135.6	126.3	9.32	14.553	
2,800.0	2,799.5	2,768.4	2,759.3	4.9	5.2	-4.69	-161.4	16.0	151.9	142.3	9.64	15.758	
2,900.0	2,898.7	2,861.9	2,848.9	5.1	5.6	-5.58	-187.2	20.4	168.1	158.2	9.96	16.879	
3,000.0	2,997.5	2,954.8	2,937.3	5.3	6.0	-6.45	-215.8	25.4	184.1	173.8	10.27	17.924	
3,100.0	3,095.6	3,047.3	3,024.2	5.5	6.4	-7.30	-247.0	30.8	199.9	189.4	10.58	18.902	
3,200.0	3,193.1	3,144.9	3,115.0	5.8	6.9	-8.19	-281.9	36.8	214.6	203.7	10.89	19.706	
3,300.0	3,289.6	3,244.1	3,207.5	6.1	7.4	-9.12	-317.5	42.9	225.9	214.7	11.20	20.170	
3,400.0	3,385.3	3,343.7	3,300.3	6.5	8.0	-10.12	-353.1	49.1	233.8	222.3	11.51	20.317	
3,500.0	3,479.8	3,443.5	3,393.3	6.9	8.6	-11.21	-388.9	55.3	238.5	226.6	11.83	20.165	
3,600.0	3,573.2	3,543.4	3,486.3	7.4	9.2	-12.45	-424.7	61.4	239.8	227.6	12.16	19.719	
3,653.9	3,623.2	3,597.2	3,536.4	7.7	9.5	-13.16	-444.0	64.8	239.7	227.4	12.38	19.358	
3,700.0	3,666.0	3,643.2	3,579.3	7.9	9.7	-13.77	-460.5	67.6	239.8	227.2	12.58	19.056	
3,800.0	3,758.8	3,743.1	3,672.3	8.4	10.3	-15.08	-496.2	73.8	239.9	226.8	13.03	18.413	
3,900.0	3,851.7	3,842.9	3,765.3	9.0	10.9	-16.40	-532.0	80.0	240.1	226.6	13.50	17.786	
4,000.0	3,944.5	3,942.8	3,858.3	9.6	11.6	-17.71	-567.8	86.2	240.5	226.5	14.00	17.173	
4,100.0	4,037.3	4,042.6	3,951.3	10.1	12.2	-19.01	-603.6	92.4	241.0	226.5	14.54	16.572	
4,200.0	4,130.1	4,142.5	4,044.3	10.7	12.8	-20.31	-639.4	98.5	241.6	226.5	15.12	15.983	
4,300.0	4,223.0	4,242.3	4,137.4	11.3	13.4	-21.60	-675.1	104.7	242.4	226.6	15.73	15.405	
4,400.0	4,315.8	4,342.2	4,230.4	11.9	14.1	-22.88	-710.9	110.9	243.2	226.9	16.39	14.840	
4,500.0	4,408.6	4,442.0	4,323.4	12.5	14.7	-24.16	-746.7	117.1	244.2	227.1	17.09	14.289	
4,600.0	4,501.5	4,541.9	4,416.4	13.2	15.3	-25.42	-782.5	123.3	245.3	227.5	17.84	13.754	
4,700.0	4,594.3	4,641.7	4,509.4	13.8	15.9	-26.67	-818.2	129.4	246.6	227.9	18.63	13.236	
4,800.0	4,687.1	4,741.6	4,602.4	14.4	16.6	-27.91	-854.0	135.6	247.9	228.5	19.46	12.737	
4,900.0	4,779.9	4,841.4	4,695.4	15.0	17.2	-29.13	-889.8	141.8	249.4	229.0	20.35	12.258	
5,000.0	4,872.8	4,941.2	4,788.4	15.7	17.9	-30.34	-925.6	148.0	251.0	229.7	21.27	11.799	

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: Rio Arriba County, NM
Reference Site: S14-T23N-R6W
Site Error: 0.0ft
Reference Well: Lybrook I14-2306 02H
Well Error: 0.0ft
Reference Wellbore: Hz
Reference Design: Plan #1

Local Co-ordinate Reference: Well Lybrook I14-2306 02H
TVD Reference: 16' KB @ 6828.0ft (Aztec)
MD Reference: 16' KB @ 6828.0ft (Aztec)
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 S14-T23N-R6W - Lybrook I14-2306 04H - 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		
5,100.0	4,965.6	5,041.1	4,881.5	16.3	18.5	-31.53	-961.4	154.2	252.6	230.4	22.24	11.362		
5,200.0	5,058.2	5,140.3	4,973.9	17.0	19.1	-53.17	-996.9	160.3	257.7	234.3	23.46	10.987		
5,300.0	5,148.6	5,224.9	5,052.6	17.6	19.7	-74.80	-1,027.2	168.7	274.7	249.9	24.73	11.108		
5,400.0	5,234.0	5,286.6	5,109.2	18.2	20.1	-89.25	-1,048.9	177.8	311.7	286.4	25.28	12.330		
5,500.0	5,311.8	5,331.7	5,149.8	18.9	20.4	-96.61	-1,064.5	189.9	369.9	345.1	24.75	14.943		
5,600.0	5,379.8	5,360.7	5,175.3	19.6	20.6	-96.54	-1,074.3	199.6	445.2	421.7	23.48	18.958		
5,700.0	5,435.7	5,376.0	5,188.6	20.3	20.7	-87.20	-1,079.3	205.2	531.9	509.3	22.59	23.549		
5,800.0	5,477.9	5,380.2	5,192.2	21.2	20.8	-65.85	-1,080.7	206.8	624.6	602.4	22.24	28.086		
5,900.0	5,505.2	5,375.8	5,188.4	22.2	20.7	-38.27	-1,079.3	205.1	719.1	699.8	19.32	37.217		
6,000.0	5,516.7	5,364.9	5,178.9	23.3	20.7	-17.74	-1,075.6	201.0	812.2	796.9	15.30	53.091		
6,100.0	5,516.7	5,350.0	5,165.9	24.6	20.6	-13.19	-1,070.7	195.8	903.2	888.4	14.84	60.878		
6,200.0	5,516.1	5,350.0	5,165.9	26.0	20.6	-13.19	-1,070.7	195.8	995.5	980.2	15.30	65.047		
6,300.0	5,515.8	5,326.8	5,145.4	27.6	20.4	-11.34	-1,062.8	188.4	1,088.5	1,073.2	15.26	71.331		
6,400.0	5,515.1	5,316.8	5,136.5	29.4	20.3	-10.59	-1,059.4	185.5	1,182.5	1,167.0	15.48	76.405		
6,500.0	5,514.6	5,300.0	5,121.4	31.3	20.2	-9.39	-1,053.6	181.0	1,277.3	1,261.7	15.53	82.258		

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc
Project: Rio Arriba County, NM
Reference Site: S14-T23N-R6W
Site Error: 0.0ft
Reference Well: Lybrook I14-2306 02H
Well Error: 0.0ft
Reference Wellbore: HZ
Reference Design: Plan #1

Local Co-ordinate Reference: Well Lybrook I14-2306 02H
TVD Reference: 16' KB @ 6828.0ft (Aztec)
MD Reference: 16' KB @ 6828.0ft (Aztec)
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 S15-T23N-R6W - GCU O15-2306 02H - 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								
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		
9,500.0	5,498.9	6,150.0	5,560.6	101.3	41.9	-84.71	-2,051.8	-4,759.1	1,276.6	1,136.8	139.81	9.131			
9,600.0	5,498.3	6,100.0	5,538.7	103.7	41.0	-83.36	-2,024.9	-4,795.1	1,220.3	1,079.1	141.17	8.644			
9,700.0	5,497.8	6,050.0	5,514.0	106.1	40.2	-81.79	-1,999.7	-4,830.5	1,167.3	1,024.9	142.39	8.198			
9,800.0	5,497.3	6,019.1	5,497.2	108.6	39.6	-80.72	-1,985.1	-4,852.0	1,118.2	974.2	143.98	7.766			
9,854.3	5,497.0	6,000.0	5,486.4	109.9	39.3	-80.01	-1,976.5	-4,865.1	1,093.4	948.6	144.74	7.554	CC, ES, SF		

Anticollision Report

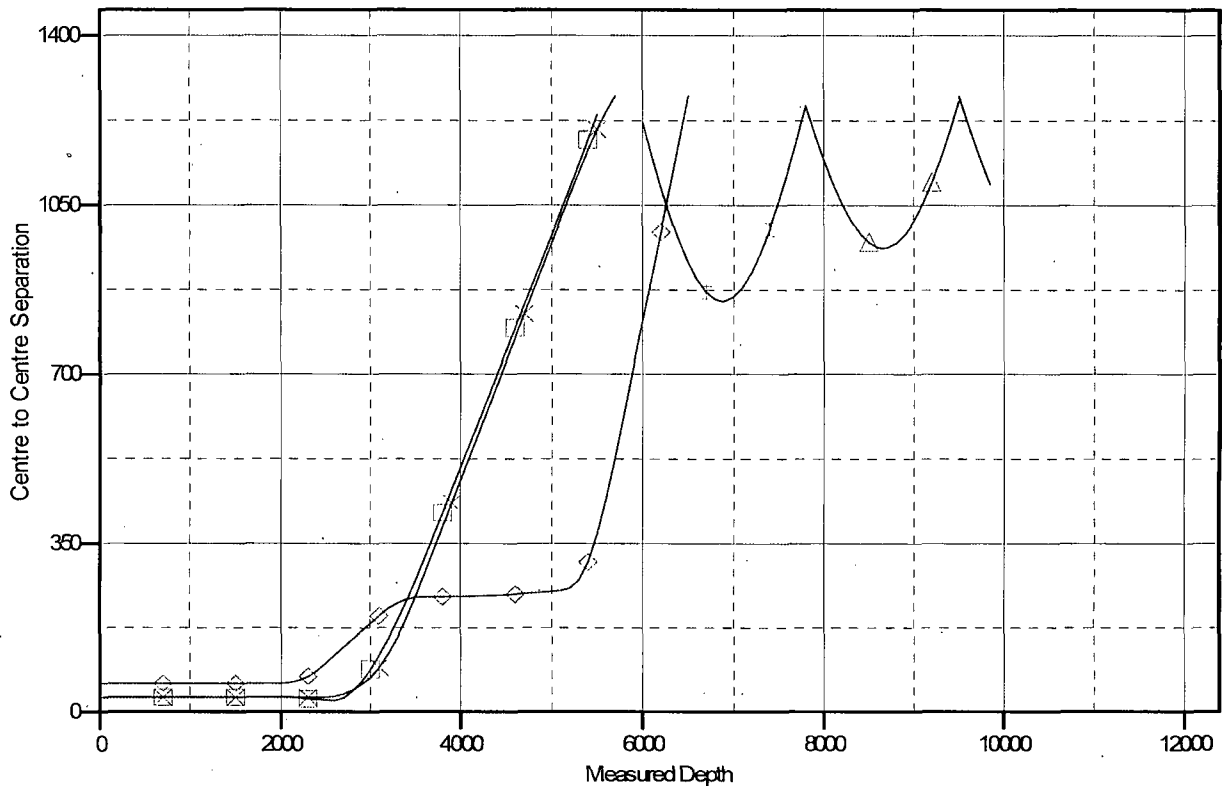
Company: EnCana Oil & Gas (USA) Inc
Project: Rio Arriba County, NM
Reference Site: S14-T23N-R6W
Site Error: 0.0ft
Reference Well: Lybrook I14-2306 02H
Well Error: 0.0ft
Reference Wellbore: Hz
Reference Design: Plan #1

Local Co-ordinate Reference: Well Lybrook I14-2306 02H
TVD Reference: 16' KB @ 6828.0ft (Aztec)
MD Reference: 16' KB @ 6828.0ft (Aztec)
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 16' KB @ 6828.0ft (Aztec)
 Offset Depths are relative to Offset Datum
 Central Meridian is -106.250000 °

Coordinates are relative to: Lybrook I14-2306 02H
 Coordinate System is US State Plane 1983, New Mexico Central Zone
 Grid Convergence at Surface is: -0.70°

Ladder Plot



LEGEND

Lybrook I14-2306 04H, Hz, Plan #1 V0 GCU M14-2306 01H, Hz, Plan #1 V0 Lybrook I14-2306 03H, Hz, Plan #1 V0
 Lybrook I14-2306 01H, Hz, Plan #1 V0 GCU P14-2306 01H, Hz, Plan #2 V0 GCU C15-2306 02H, Hz, Plan #2 V0

Lybrook 114-2306 02H

SHL: NESE Section 14, T23N, R6W
1908' FSL and 554' FEL

BHL: SWSW Section 14, T23N, R6W
920' FSL and 330' FWL

Rio Arriba County, New Mexico
Lease Number: NMNM 118127

Topsoil will not be stripped when soils are moisture-saturated or frozen below the stripping depth.

If the location becomes prone to wind or water erosion, Encana will take appropriate measures to prevent topsoil loss from wind. Such measures may include using tackifiers or water to wet the topsoil stockpile so that a crust is created across the exposed soil to prevent soil loss.

3. All construction materials for the well pad will consist of native borrow and subsoil accumulated during well pad construction. If additional fill or surfacing material is required, it will be obtained from existing permitted or private sources and will be hauled in by trucks over existing access roads.

The maximum cut will be approximately 21.0 feet on the southeast corner (corner 2) and the maximum fill will be approximately 16.1 feet on the northwest corner (corner 5).

4. As determined during the onsite on April 22, 2014, the following best management practices will be implemented:

Three large silt traps will be constructed on the East side of the well pad between Corners 2 and 6, and will drain North towards Corner 6.

Water will be diverted around the pad and silt traps installed as needed upon interim reclamation.

5. Construction equipment may include chain saws, a brush hog, scraper, maintainer, excavator, and dozer. Construction for the access road and well pad will take approximately 3 weeks.

C. Pipeline

See the Standard SF-299 Application for authorization to construct, operate, maintain and terminate a 773 foot, up to 6-inch outside diameter, buried steel well connect pipeline that was submitted to the Bureau of Land Management on April 4, 2014.

7. METHODS FOR HANDLING WASTE

A. Cuttings

1. A closed-loop system will be used. Cuttings will be moved through a shaker system on the drill rig that separates drilling fluids from the cuttings. Cuttings will be stored onsite in above-ground storage tanks. Cuttings will be pulled from the storage tanks, mixed with saw dust or similar absorbent material, and disposed of at the Envirotech, Inc. and/or Industrial Ecosystem, Inc. waste disposal facilities.
2. The closed-loop system storage tanks will be adequately sized to ensure confinement of all fluids and will provide sufficient freeboard to prevent uncontrolled releases.
3. A 20-mil liner will be installed under tanks, pumps, ancillary facilities, and truck loading/unloading areas associated with the closed-loop system.

B. Drilling Fluids

1. A closed-loop system will be used. Drilling fluids will be stored onsite in above-ground storage tanks. Upon termination of drilling operations, the drilling fluids will be recycled and transferred to other permitted closed-loop systems or returned to the vendor for reuse, as

ENCANA OIL & GAS (USA) INC.

LYBROOK 114-2306 #02H

1908' FSL & 554' FEL

LOCATED IN THE NE/4 SE/4 OF SECTION 14, T23N, R6W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM THE INTERSECTION OF HWY 64 & HWY 550 IN BLOOMFIELD, GO SOUTH ON HWY 550, 53.6 MILES TO CR 379 (M.P. 197.7).
- 2) TURN LEFT ONTO CR 379 AND GO 0.9 MILES.
- 3) TURN RIGHT AND GO 1.8 MILES.
- 4) TURN RIGHT AND GO 0.3 MILES TO WHERE ACCESS IS FLAGGED ON LEFT SIDE OF ROAD.

WELL FLAG LOCATED AT LAT. 36.223176° N, LONG. 107.430966° W (NAD 83).



WELLHEAD BLOWOUT CONTROL SYSTEM

encana

Well Name and Number:
Lybrook 114-2306 02H

