

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

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

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. V0 9212
2. Name of Operator Encana Oil & Gas (USA) Inc.		6. If Indian, Allottee or Tribe Name N/A
3a. Address 370 17th Street, Suite 1700 Denver, CO 80202	3b. Phone No. (include area code) 720-876-5867	7. If Unit of CA/Agreement, Name and/or No. NMNM 131017X OIL CONS. DIV.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SHL: 250' FSL and 967' FEL Section 26, T23N, R6W BHL: 330' FSL and 2495' FEL Section 36, T23N, R6W		8. Well Name and No. Gallo Canyon Unit P26-2306 01H
		9. API Well No. 30-043-21207 DIST. 3
		10. Field and Pool or Exploratory Area Counselors Gallup-Dakota
		11. County or Parish, State San Juan County, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other _____	
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Encana Oil & Gas (USA) Inc. (Encana) wishes to modify the drilling plan for the Gallo Canyon Unit P26-2306 01H well to cement the 4 1/2" production liner, instead of running open hole swell packers, as previously planned. Attached is an updated Directional Drilling Plan, 10-Point Drilling Plan and Wellbore Diagram that reflect this change. Please note, the 7" ICP was also moved from approximately 72 degrees to approximately 55 degrees.

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Cristi Bauer		Title Operations Technician
Signature <i>Cristi Bauer</i>		Date 09/18/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by <i>William Tambekou</i>	Title <i>Petroleum Engineer</i>	Date <i>9/22/2014</i>
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
Office <i>FFO</i>		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

NMOCDF

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LOC: GCU P26-2306 01H			Encana Natural Gas				ENG: Sydney Kuyke 9/18/14			
County: Sandoval			WELL SUMMARY				RIG: Aztec 950			
WELL: GCU P26-2306 01H							GLE: 6872			
							RKBE: 6888			
MWD	OPEN HOLE	FORM	DEPTH			HOLE	CASING	MW	DEVIATION	
LWD	LOGGING		TVD	MD						SIZE
			60	60'		26	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.	0			12 1/4	9 5/8" 36ppf J55 STC	Fresh wtr 8.3-10	Vertical <1°	
		Nacimiento Fn. 9 5/8" Csg	0 500	500.00	TOC Surface with 100% OH Excess: 276 sks Type III Cement + 1% bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake + 0.2% bwoc FL-52A + 58.9% Fresh Water.					
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.	1,318		8 3/4		7" 26ppf J55 LTC	Fresh Wtr 8.3-10	Vertical <1°	
		Kirtland Shale	1,432							TOC @ surface (100% OH excess - 70% Lead 30% Tail) Stage 1 Total: 1185sks
		Fruitland Coal	1,604							Stage 1 Lead: 671 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.
		Pictured Cliffs Ss.	1,863							Stage 1 Tail: 513 sks Type III Cement + 1% CaCl2 + 0.25#/sk Cello Flake + 0.2% FL-52A. Mixed at 14.6 ppg. Yield 1.38 cuft/sk.
		Lewis Shale	1,974							
		Cliffhouse Ss.	2,672							
Surveys every 30' through the curve	Mud logger onsite	Menefee Fn.	3,205							
		Point Lookout Ss.	4,068							
		Mancos Shale	4,268							
		KOP	4,528	4,528						
		Mancos Silt	4,885							
		Gallup Fn.	5,138							
		7" Csg	4,997	5,078'						
Surveys every stand to TD unless directed otherwise by Geologist	No OH Logs	Horizontal Target TD	5,380 5,357	12,130		6 1/8	100' overlap at liner top		Horz Inc/TVD 90.2 degdeg/5380ft	
		Base Gallup	5,413				7052' Drilled Lateral		TD = 12129.8 MD	
MWD Gamma Directional							4 1/2" 11.6ppf SB80 LTC	WBM 8.3-10		
							TOC @ hanger (50% OH excess) Stage 1 Total: 279sks			
							Stage 1 Blend: 279 sks Premium Lite High Strength FM + 0.7% bwoc R-3 + 3% bwow Potassium Chloride + 0.25lbs/sack Cello Flake + 0.5% bwoc CD-32 + 1.15% bwoc FL-52A + 60 lbs/sack Calcium Carbonate + 124.4% Fresh Water. Yield 2.63 cuft/sk.			

NOTES:

- 1) Drill with 26" bit to 60', set 16" 42.09ppf 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 4528', 8 3/4 inch holesize
- 5) Start curve at 10deg/100' build rate
- 6) Drill to csg point of 5078' MD
- 7) R&C 7" csg, circ cmt to surface
- 8) Land at -90 deg, drill lateral to 12130' run 4 1/2 inch cemented liner

RCVD SEP 24 '14
OIL CONS. DIV.
DIST. 3

GCU P26-2306 01H

SHL: SE/4 SE/4 Sec 26 T23N R6W, 250' FSL, 967' FEL

BHL: SW/4 SE/4 Sec 36 T23N R6W, 330' FSL, 2495' 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
Nacimiento Fn.	0
Ojo Alamo Ss.	1,318
Kirtland Shale	1,432
Fruitland Coal	1,604
Pictured Cliffs Ss.	1,863
Lewis Shale	1,974
Cliffhouse Ss.	2,672
Menefee Fn.	3,205
Point Lookout Ss.	4,068
Mancos Shale	4,288
Mancos Silt	4,885
Gallup Fn.	5,138
Horizontal Target	5,380

The referenced surface elevation is 6872', KB 6888'

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

Substance	Formation	Depth (TVD) units = feet
Water/Gas	Fruitland Coal	1,604
Oil/Gas	Pictured Cliffs Ss.	1,863
Oil/Gas	Cliffhouse Ss.	2,672
Gas	Menefee Fn.	3,205
Oil/Gas	Point Lookout Ss.	4,068
Oil/Gas	Mancos Shale	4,288
Oil/Gas	Mancos Silt	4,885
Oil/Gas	Gallup Fn.	5,138

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

GCU P26-2306 01H

SHL: SE/4 SE/4 Sec 26 T23N R6W, 250' FSL, 967' FEL

BHL: SW/4 SE/4 Sec 36 T23N R6W, 330' FSL, 2495' FEL

Sandoval, New Mexico

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'	26"	16"	42.09#	
Surface	0'-500'	12 1/4"	9 5/8"	36#	J55, STC New
Intermediate	0'-5078'	8 3/4"	7"	26#	J55, LTC New
Production Liner	4978'-12130'	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

GCU P26-2306 01H

SHL: SE/4 SE/4 Sec 26 T23N R6W, 250' FSL, 967' FEL

BHL: SW/4 SE/4 Sec 36 T23N R6W, 330' FSL, 2495' FEL

Sandoval, New Mexico

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'	276 sks	Type III Cement + 1% bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake + 0.2% bwoc FL-52A + 58.9% Fresh Water	Surface	1 per joint on bottom 3 joints
Intermediate	0'-5078'	100% open hole excess Stage 1 Lead: 671 sks Stage 1 Tail: 513 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	4978'- 12130'	50% OH excess Stage 1 Blend Total: 279sks	Blend: Premium Lite High Strength FM + 0.7% bwoc R-3 + 3% bwow Potassium Chloride + 0.25lbs/sack Cello Flake + 0.5% bwoc CD-32 + 1.15% bwoc FL- 52A + 60 lbs/sack Calcium Carbonate + 124.4% Fresh Water.	Liner Hanger	N/A

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 4528'. Directional plans are attached.

Description	Proposed Depth (TVD/MD)	Formation
Horizontal Lateral TD	5357'/12130'	Gallup

GCU P26-2306 01H

SHL: SE/4 SE/4 Sec 26 T23N R6W, 250' FSL, 967' FEL

BHL: SW/4 SE/4 Sec 36 T23N R6W, 330' FSL, 2495' FEL

Sandoval, New Mexico

6. DRILLING FLUIDS PROGRAM

a) Surface through Intermediate Casing Point:

Hole Size (in)	Depth (TVD/MD)	Mud Type	Density (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
30"	0-60'/60'	Fresh Water	8.3-9.2	38-100	4-28
12 1/4"	0'-500'/500'	Fresh Water	8.3-10	60-70	NC
8 3/4"	500'/500'-4997'/5078'	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"	4997'/5078'- 5357'/12130'	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 +/- 2518 psi based on a 9.0 ppg at 5380' 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 1, 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.

Planning Report

Database: USA EDM 5000 Multi Users DB	Local Co-ordinate Reference: Well GCU P26-2306 01H	
Company: EnCana Oil & Gas (USA) Inc	TVD Reference: WELL @ 6888.0ft (Original Well Elev)	
Project: Sandoval County, NM	MD Reference: WELL @ 6888.0ft (Original Well Elev)	
Site: S26-T23N-R6W	North Reference: True	
Well: GCU P26-2306 01H	Survey Calculation Method: Minimum Curvature	
Wellbore: Hz		
Design: Plan #1		

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 S26-T23N-R6W		
Site Position:	Northing: 1,890,393.73 ft	Latitude: 36.189558
From: Lat/Long	Easting: 1,291,584.38 ft	Longitude: -107.432173
Position Uncertainty: 0.0 ft	Slot Radius: 13.200 in	Grid Convergence: -0.70 °

Well GCU P26-2306 01H		
Well Position +N/-S 0.0 ft	Northing: 1,890,393.73 ft	Latitude: 36.189558
+E/-W 0.0 ft	Easting: 1,291,584.38 ft	Longitude: -107.432173
Position Uncertainty 0.0 ft	Wellhead Elevation: ft	Ground Level: 6,872.0 ft

Wellbore Hz		
Magnetics	Model Name	Sample Date
	IGRF2010	2/7/2014
	Declination (°)	Dip Angle (°)
	9.37	62.99
	Field Strength (nT)	
	50,197	

Design Plan #1		
Audit Notes:		
Version:	Phase: PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (ft)	Direction (°)
	0.0	137.21

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	
4,528.0	0.00	0.00	4,528.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,135.6	60.76	242.23	5,028.0	-136.6	-259.3	10.00	10.00	0.00	242.23	
6,167.2	90.20	137.21	5,378.3	-960.4	-326.4	10.00	2.85	-10.18	-97.29	GCU P26-2306 01H F
12,129.8	90.20	137.21	5,357.5	-5,336.2	3,723.9	0.00	0.00	0.00	0.00	GCU P26-2306 01H F

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well GCU P26-2306 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6888.0ft (Original Well Elev)
Project:	Sandoval County, NM	MD Reference:	WELL @ 6888.0ft (Original Well Elev)
Site:	S26-T23N-R6W	North Reference:	True
Well:	GCU P26-2306 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

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	
1,318.0	0.00	0.00	1,318.0	0.0	0.0	0.0	0.00	0.00	Ojo Alamo
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	
1,432.0	0.00	0.00	1,432.0	0.0	0.0	0.0	0.00	0.00	Kirtland Shale
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	
1,604.0	0.00	0.00	1,604.0	0.0	0.0	0.0	0.00	0.00	Fruitland Coal
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	Pictured Cliffs Ss.
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	
1,974.0	0.00	0.00	1,974.0	0.0	0.0	0.0	0.00	0.00	Lewis Shale
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	
2,672.0	0.00	0.00	2,672.0	0.0	0.0	0.0	0.00	0.00	Cliffhouse Ss.
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	
3,205.0	0.00	0.00	3,205.0	0.0	0.0	0.0	0.00	0.00	Menefee Fn.
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	
3,900.0	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	
4,068.0	0.00	0.00	4,068.0	0.0	0.0	0.0	0.00	0.00	Point Lookout Ss.
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	
4,288.0	0.00	0.00	4,288.0	0.0	0.0	0.0	0.00	0.00	Mancos Shale

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well GCU P26-2306 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6888.0ft (Original Well Elev)
Project:	Sandoval County, NM	MD Reference:	WELL @ 6888.0ft (Original Well Elev)
Site:	S26-T23N-R6W	North Reference:	True
Well:	GCU P26-2306 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

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	
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	
4,528.0	0.00	0.00	4,528.0	0.0	0.0	0.0	0.00	0.00	KOP @ 4528'
4,600.0	7.20	242.23	4,599.8	-2.1	-4.0	-1.2	10.00	10.00	
4,700.0	17.20	242.23	4,697.4	-11.9	-22.7	-6.6	10.00	10.00	
4,800.0	27.20	242.23	4,789.9	-29.5	-56.1	-16.4	10.00	10.00	
4,900.0	37.20	242.23	4,874.4	-54.3	-103.2	-30.2	10.00	10.00	
4,913.6	38.56	242.23	4,885.1	-58.2	-110.5	-32.4	10.01	10.01	Mancos Silt
5,000.0	47.20	242.23	4,948.4	-85.6	-162.5	-47.6	10.00	10.00	
5,078.0	55.00	242.23	4,997.3	-113.8	-216.2	-63.3	10.00	10.00	7" ICP @ 55°
5,100.0	57.20	242.23	5,009.6	-122.3	-232.4	-68.1	10.00	10.00	
5,135.6	60.76	242.23	5,028.0	-136.6	-259.3	-76.0	10.00	10.00	Start build/turn @ 5135' MD
5,200.0	60.15	234.86	5,059.7	-165.7	-307.1	-87.0	10.00	-0.95	
5,300.0	60.01	223.32	5,109.8	-222.4	-372.4	-89.8	10.00	-0.13	
5,357.4	60.39	216.72	5,138.3	-260.5	-404.4	-83.6	10.00	0.66	Gallup Fn.
5,400.0	60.88	211.86	5,159.2	-291.1	-425.3	-75.3	10.00	1.15	
5,500.0	62.70	200.70	5,206.6	-370.0	-464.2	-43.8	10.00	1.82	
5,600.0	65.37	189.97	5,250.5	-456.5	-487.8	3.7	10.00	2.67	
5,700.0	68.76	179.75	5,289.5	-548.1	-495.5	65.7	10.00	3.39	
5,800.0	72.74	170.03	5,322.6	-642.0	-487.0	140.3	10.00	3.98	
5,900.0	77.17	160.74	5,348.6	-735.3	-462.6	225.4	10.00	4.43	
6,000.0	81.91	151.78	5,366.7	-825.2	-423.0	318.2	10.00	4.74	
6,100.0	86.84	143.03	5,376.6	-908.9	-369.4	416.0	10.00	4.93	
6,167.2	90.20	137.21	5,378.3	-960.4	-326.4	483.1	10.00	5.00	LP @ 5378' TVD; 90.2°
6,200.0	90.20	137.21	5,378.2	-984.5	-304.1	515.9	0.00	0.00	
6,300.0	90.20	137.21	5,377.8	-1,057.9	-236.2	615.9	0.00	0.00	
6,400.0	90.20	137.21	5,377.5	-1,131.3	-168.3	715.9	0.00	0.00	
6,500.0	90.20	137.21	5,377.1	-1,204.6	-100.3	815.9	0.00	0.00	
6,600.0	90.20	137.21	5,376.8	-1,278.0	-32.4	915.9	0.00	0.00	
6,700.0	90.20	137.21	5,376.4	-1,351.4	35.5	1,015.9	0.00	0.00	
6,800.0	90.20	137.21	5,376.1	-1,424.8	103.5	1,115.9	0.00	0.00	
6,900.0	90.20	137.21	5,375.7	-1,498.2	171.4	1,215.9	0.00	0.00	
7,000.0	90.20	137.21	5,375.4	-1,571.6	239.3	1,315.9	0.00	0.00	
7,100.0	90.20	137.21	5,375.0	-1,645.0	307.2	1,415.9	0.00	0.00	
7,200.0	90.20	137.21	5,374.7	-1,718.4	375.2	1,515.9	0.00	0.00	
7,300.0	90.20	137.21	5,374.3	-1,791.7	443.1	1,615.9	0.00	0.00	
7,400.0	90.20	137.21	5,374.0	-1,865.1	511.0	1,715.9	0.00	0.00	
7,500.0	90.20	137.21	5,373.7	-1,938.5	579.0	1,815.9	0.00	0.00	
7,600.0	90.20	137.21	5,373.3	-2,011.9	646.9	1,915.9	0.00	0.00	
7,700.0	90.20	137.21	5,373.0	-2,085.3	714.8	2,015.9	0.00	0.00	
7,800.0	90.20	137.21	5,372.6	-2,158.7	782.7	2,115.9	0.00	0.00	
7,900.0	90.20	137.21	5,372.3	-2,232.1	850.7	2,215.9	0.00	0.00	
8,000.0	90.20	137.21	5,371.9	-2,305.5	918.6	2,315.9	0.00	0.00	
8,100.0	90.20	137.21	5,371.6	-2,378.8	986.5	2,415.9	0.00	0.00	
8,200.0	90.20	137.21	5,371.2	-2,452.2	1,054.4	2,515.9	0.00	0.00	
8,300.0	90.20	137.21	5,370.9	-2,525.6	1,122.4	2,615.9	0.00	0.00	
8,400.0	90.20	137.21	5,370.5	-2,599.0	1,190.3	2,715.9	0.00	0.00	
8,500.0	90.20	137.21	5,370.2	-2,672.4	1,258.2	2,815.9	0.00	0.00	
8,600.0	90.20	137.21	5,369.8	-2,745.8	1,326.2	2,915.9	0.00	0.00	
8,700.0	90.20	137.21	5,369.5	-2,819.2	1,394.1	3,015.9	0.00	0.00	
8,800.0	90.20	137.21	5,369.1	-2,892.6	1,462.0	3,115.9	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well GCU P26-2306 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6888.0ft (Original Well Elev)
Project:	Sandoval County, NM	MD Reference:	WELL @ 6888.0ft (Original Well Elev)
Site:	S26-T23N-R6W	North Reference:	True
Well:	GCU P26-2306 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

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	90.20	137.21	5,368.8	-2,965.9	1,529.9	3,215.9	0.00	0.00	
9,000.0	90.20	137.21	5,368.4	-3,039.3	1,597.9	3,315.9	0.00	0.00	
9,100.0	90.20	137.21	5,368.1	-3,112.7	1,665.8	3,415.9	0.00	0.00	
9,200.0	90.20	137.21	5,367.7	-3,186.1	1,733.7	3,515.9	0.00	0.00	
9,300.0	90.20	137.21	5,367.4	-3,259.5	1,801.7	3,615.9	0.00	0.00	
9,400.0	90.20	137.21	5,367.0	-3,332.9	1,869.6	3,715.9	0.00	0.00	
9,500.0	90.20	137.21	5,366.7	-3,406.3	1,937.5	3,815.9	0.00	0.00	
9,600.0	90.20	137.21	5,366.3	-3,479.7	2,005.4	3,915.9	0.00	0.00	
9,700.0	90.20	137.21	5,366.0	-3,553.0	2,073.4	4,015.9	0.00	0.00	
9,800.0	90.20	137.21	5,365.6	-3,626.4	2,141.3	4,115.9	0.00	0.00	
9,900.0	90.20	137.21	5,365.3	-3,699.8	2,209.2	4,215.9	0.00	0.00	
10,000.0	90.20	137.21	5,364.9	-3,773.2	2,277.2	4,315.9	0.00	0.00	
10,100.0	90.20	137.21	5,364.6	-3,846.6	2,345.1	4,415.9	0.00	0.00	
10,200.0	90.20	137.21	5,364.2	-3,920.0	2,413.0	4,515.9	0.00	0.00	
10,300.0	90.20	137.21	5,363.9	-3,993.4	2,480.9	4,615.9	0.00	0.00	
10,400.0	90.20	137.21	5,363.5	-4,066.8	2,548.9	4,715.9	0.00	0.00	
10,500.0	90.20	137.21	5,363.2	-4,140.1	2,616.8	4,815.9	0.00	0.00	
10,600.0	90.20	137.21	5,362.8	-4,213.5	2,684.7	4,915.9	0.00	0.00	
10,700.0	90.20	137.21	5,362.5	-4,286.9	2,752.7	5,015.9	0.00	0.00	
10,800.0	90.20	137.21	5,362.1	-4,360.3	2,820.6	5,115.9	0.00	0.00	
10,900.0	90.20	137.21	5,361.8	-4,433.7	2,888.5	5,215.9	0.00	0.00	
11,000.0	90.20	137.21	5,361.4	-4,507.1	2,956.4	5,315.9	0.00	0.00	
11,100.0	90.20	137.21	5,361.1	-4,580.5	3,024.4	5,415.9	0.00	0.00	
11,200.0	90.20	137.21	5,360.7	-4,653.9	3,092.3	5,515.9	0.00	0.00	
11,300.0	90.20	137.21	5,360.4	-4,727.2	3,160.2	5,615.9	0.00	0.00	
11,400.0	90.20	137.21	5,360.0	-4,800.6	3,228.1	5,715.9	0.00	0.00	
11,500.0	90.20	137.21	5,359.7	-4,874.0	3,296.1	5,815.9	0.00	0.00	
11,600.0	90.20	137.21	5,359.3	-4,947.4	3,364.0	5,915.9	0.00	0.00	
11,700.0	90.20	137.21	5,359.0	-5,020.8	3,431.9	6,015.9	0.00	0.00	
11,800.0	90.20	137.21	5,358.7	-5,094.2	3,499.9	6,115.9	0.00	0.00	
11,900.0	90.20	137.21	5,358.3	-5,167.6	3,567.8	6,215.9	0.00	0.00	
12,000.0	90.20	137.21	5,358.0	-5,241.0	3,635.7	6,315.9	0.00	0.00	
12,100.0	90.20	137.21	5,357.6	-5,314.3	3,703.6	6,415.9	0.00	0.00	
12,129.8	90.20	137.21	5,357.5	-5,336.2	3,723.9	6,445.6	0.00	0.00	TD at 12129.8

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
GCU P26-2306 01H POI - plan hits target center - Point	0.00	0.00	5,378.3	-960.4	-326.4	1,889,437.38	1,291,246.29	36.186920	-107.433279
GCU P26-2306 01H PBI - plan hits target center - Point	0.00	0.00	5,357.5	-5,336.2	3,723.9	1,885,012.56	1,295,242.95	36.174900	-107.419557
	500.0	500.0	9 5/8"					0.000	0.000
	5,078.0	4,997.3	7" ICP @ 55°					0.000	0.000

Planning Report

Database: USA EDM 5000 Multi Users DB
Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Site: S26-T23N-R6W
Well: GCU P26-2306 01H
Wellbore: Hz
Design: Plan #1

Local Co-ordinate Reference: Well GCU P26-2306 01H
TVD Reference: WELL @ 6888.0ft (Original Well Elev)
MD Reference: WELL @ 6888.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,318.0	1,318.0	Ojo Alamo		-0.20	137.21	
1,432.0	1,432.0	Kirtland Shale		-0.20	137.21	
1,604.0	1,604.0	Fruitland Coal		-0.20	137.21	
1,863.0	1,863.0	Pictured Cliffs Ss.		-0.20	137.21	
1,974.0	1,974.0	Lewis Shale		-0.20	137.21	
2,672.0	2,672.0	Cliffhouse Ss.		-0.20	137.21	
3,205.0	3,205.0	Menefee Fn.		-0.20	137.21	
4,068.0	4,068.0	Point Lookout Ss.		-0.20	137.21	
4,288.0	4,288.0	Mancos Shale		-0.20	137.21	
4,913.6	4,885.0	Mancos Silt		-0.20	137.21	
5,357.4	5,138.0	Gallup Fn.		-0.20	137.21	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
4,528.0	4,528.0	0.0	0.0	KOP @ 4528'	
5,135.6	5,028.0	-136.6	-259.3	Start build/turn @ 5135' MD	
6,167.2	5,378.3	-960.4	-326.4	LP @ 5378' TVD; 90.2°	
12,129.8	5,357.5	-5,336.2	3,723.9	TD at 12129.8	

EnCana Oil & Gas (USA) Inc

Sandoval County, NM

S26-T23N-R6W

GCU P26-2306 01H

Hz

Plan #1

Anticollision Report

07 February, 2014

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU P26-2306 01H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 6888.0ft (Original Well Elev)
Reference Site:	S26-T23N-R6W	MD Reference:	WELL @ 6888.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	GCU P26-2306 01H	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
Depth Range:	Unlimited
Results Limited by:	Maximum center-center distance of 1,395.9ft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	Systematic Ellipse
Scan Method:	Closest Approach 3D
Error Surface:	Elliptical Conic

Survey Tool Program **Date** 2/7/2014

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	12,129.8	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						
GCU						
GCU Q26-2306 01H - Hz - Plan #1	9,700.0	9,945.6	5.6	-114.9	0.046	Level 1, ES
GCU Q26-2306 01H - Hz - Plan #1	10,200.0	10,445.6	5.2	-111.0	0.044	Level 1, SF
GCU Q26-2306 01H - Hz - Plan #1	12,118.4	12,364.0	4.4	-37.3	0.105	Level 1, CC
Lybrook						
Lybrook A01-2206 01H - Hz - Plan #6	12,130.1	7,209.8	938.4	761.0	5.289	CC, ES, SF
S26-T23N-R6W						
GCU P26-2306 02H - Hz - Plan #1	4,500.0	4,500.0	30.0	14.4	1.918	CC, ES, SF

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Reference Site: S26-T23N-R6W
Site Error: 0.0ft
Reference Well: GCU P26-2306 01H
Well Error: 0.0ft
Reference Wellbore: Hz
Reference Design: Plan #1

Local Co-ordinate Reference: Well GCU P26-2306 01H
TVD Reference: WELL @ 6888.0ft (Original Well Elev)
MD Reference: WELL @ 6888.0ft (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 GCU - GCU O26-2306 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		
0.0	0.0	21.0	21.0	0.0	0.0	-97.07	-159.1	-1,283.2	1,293.0					
100.0	100.0	121.0	121.0	0.1	0.2	-97.07	-159.1	-1,283.2	1,293.0	1,292.7	0.33	3,919.719		
200.0	200.0	221.0	221.0	0.3	0.4	-97.07	-159.1	-1,283.2	1,293.0	1,292.3	0.68	1,904.440		
300.0	300.0	321.0	321.0	0.5	0.5	-97.07	-159.1	-1,283.2	1,293.0	1,292.0	1.03	1,257.771		
400.0	400.0	421.0	421.0	0.7	0.7	-97.07	-159.1	-1,283.2	1,293.0	1,291.6	1.38	938.945		
500.0	500.0	521.0	521.0	0.8	0.9	-97.07	-159.1	-1,283.2	1,293.0	1,291.3	1.73	749.067		
600.0	600.0	621.0	621.0	1.0	1.1	-97.07	-159.1	-1,283.2	1,293.0	1,290.9	2.08	623.068		
700.0	700.0	721.0	721.0	1.2	1.2	-97.07	-159.1	-1,283.2	1,293.0	1,290.6	2.42	533.353		
800.0	800.0	821.0	821.0	1.4	1.4	-97.07	-159.1	-1,283.2	1,293.0	1,290.2	2.77	466.222		
900.0	900.0	921.0	921.0	1.5	1.6	-97.07	-159.1	-1,283.2	1,293.0	1,289.9	3.12	414.101		
1,000.0	1,000.0	1,021.0	1,021.0	1.7	1.8	-97.07	-159.1	-1,283.2	1,293.0	1,289.5	3.47	372.462		
1,100.0	1,100.0	1,121.0	1,121.0	1.9	1.9	-97.07	-159.1	-1,283.2	1,293.0	1,289.2	3.82	338.432		
1,200.0	1,200.0	1,221.0	1,221.0	2.1	2.1	-97.07	-159.1	-1,283.2	1,293.0	1,288.8	4.17	310.099		
1,300.0	1,300.0	1,321.0	1,321.0	2.2	2.3	-97.07	-159.1	-1,283.2	1,293.0	1,288.5	4.52	286.144		
1,400.0	1,400.0	1,421.0	1,421.0	2.4	2.5	-97.07	-159.1	-1,283.2	1,293.0	1,288.1	4.87	265.625		
1,500.0	1,500.0	1,521.0	1,521.0	2.6	2.6	-97.07	-159.1	-1,283.2	1,293.0	1,287.8	5.22	247.851		
1,600.0	1,600.0	1,621.0	1,621.0	2.8	2.8	-97.07	-159.1	-1,283.2	1,293.0	1,287.4	5.57	232.307		
1,700.0	1,700.0	1,721.0	1,721.0	2.9	3.0	-97.07	-159.1	-1,283.2	1,293.0	1,287.1	5.91	218.598		
1,800.0	1,800.0	1,821.0	1,821.0	3.1	3.2	-97.07	-159.1	-1,283.2	1,293.0	1,286.7	6.26	206.416		
1,900.0	1,900.0	1,921.0	1,921.0	3.3	3.3	-97.07	-159.1	-1,283.2	1,293.0	1,286.4	6.61	195.521		
2,000.0	2,000.0	2,021.0	2,021.0	3.5	3.5	-97.07	-159.1	-1,283.2	1,293.0	1,286.0	6.96	185.718		
2,100.0	2,100.0	2,121.0	2,121.0	3.6	3.7	-97.07	-159.1	-1,283.2	1,293.0	1,285.7	7.31	176.851		
2,200.0	2,200.0	2,221.0	2,221.0	3.8	3.8	-97.07	-159.1	-1,283.2	1,293.0	1,285.3	7.66	168.792		
2,300.0	2,300.0	2,321.0	2,321.0	4.0	4.0	-97.07	-159.1	-1,283.2	1,293.0	1,285.0	8.01	161.436		
2,400.0	2,400.0	2,421.0	2,421.0	4.2	4.2	-97.07	-159.1	-1,283.2	1,293.0	1,284.6	8.36	154.694		
2,500.0	2,500.0	2,521.0	2,521.0	4.3	4.4	-97.07	-159.1	-1,283.2	1,293.0	1,284.3	8.71	148.492		
2,600.0	2,600.0	2,621.0	2,621.0	4.5	4.5	-97.07	-159.1	-1,283.2	1,293.0	1,283.9	9.06	142.769		
2,700.0	2,700.0	2,721.0	2,721.0	4.7	4.7	-97.07	-159.1	-1,283.2	1,293.0	1,283.6	9.41	137.470		
2,800.0	2,800.0	2,821.0	2,821.0	4.9	4.9	-97.07	-159.1	-1,283.2	1,293.0	1,283.2	9.75	132.551		
2,900.0	2,900.0	2,921.0	2,921.0	5.0	5.1	-97.07	-159.1	-1,283.2	1,293.0	1,282.9	10.10	127.972		
3,000.0	3,000.0	3,021.0	3,021.0	5.2	5.2	-97.07	-159.1	-1,283.2	1,293.0	1,282.5	10.45	123.698		
3,100.0	3,100.0	3,121.0	3,121.0	5.4	5.4	-97.07	-159.1	-1,283.2	1,293.0	1,282.2	10.80	119.701		
3,200.0	3,200.0	3,221.0	3,221.0	5.6	5.6	-97.07	-159.1	-1,283.2	1,293.0	1,281.8	11.15	115.954		
3,300.0	3,300.0	3,321.0	3,321.0	5.7	5.8	-97.07	-159.1	-1,283.2	1,293.0	1,281.5	11.50	112.434		
3,400.0	3,400.0	3,421.0	3,421.0	5.9	5.9	-97.07	-159.1	-1,283.2	1,293.0	1,281.1	11.85	109.122		
3,500.0	3,500.0	3,521.0	3,521.0	6.1	6.1	-97.07	-159.1	-1,283.2	1,293.0	1,280.8	12.20	105.999		
3,600.0	3,600.0	3,621.0	3,621.0	6.3	6.3	-97.07	-159.1	-1,283.2	1,293.0	1,280.4	12.55	103.050		
3,700.0	3,700.0	3,721.0	3,721.0	6.4	6.5	-97.07	-159.1	-1,283.2	1,293.0	1,280.1	12.90	100.261		
3,800.0	3,800.0	3,821.0	3,821.0	6.6	6.6	-97.07	-159.1	-1,283.2	1,293.0	1,279.7	13.25	97.619		
3,900.0	3,900.0	3,921.0	3,921.0	6.8	6.8	-97.07	-159.1	-1,283.2	1,293.0	1,279.4	13.59	95.112		
4,000.0	4,000.0	4,021.0	4,021.0	7.0	7.0	-97.07	-159.1	-1,283.2	1,293.0	1,279.0	13.94	92.731		
4,100.0	4,100.0	4,121.0	4,121.0	7.1	7.2	-97.07	-159.1	-1,283.2	1,293.0	1,278.7	14.29	90.466		
4,200.0	4,200.0	4,221.0	4,221.0	7.3	7.3	-97.07	-159.1	-1,283.2	1,293.0	1,278.3	14.64	88.309		
4,300.0	4,300.0	4,321.0	4,321.0	7.5	7.5	-97.07	-159.1	-1,283.2	1,293.0	1,278.0	14.99	86.253		
4,400.0	4,400.0	4,421.0	4,421.0	7.7	7.7	-97.07	-159.1	-1,283.2	1,293.0	1,277.6	15.34	84.290		
4,500.0	4,500.0	5,931.5	5,405.3	7.8	19.5	-132.90	-600.9	-646.5	1,249.4	1,226.9	22.47	55.597		
4,600.0	4,599.8	5,930.0	5,405.3	8.0	19.5	-17.13	-599.8	-647.5	1,177.6	1,150.5	27.13	43.398		
4,700.0	4,697.4	5,924.2	5,405.3	8.2	19.4	-20.80	-595.5	-651.5	1,099.0	1,072.4	26.63	41.273		
4,800.0	4,789.9	5,914.1	5,405.4	8.5	19.2	-26.23	-588.1	-658.3	1,013.9	988.3	25.63	39.565		
4,900.0	4,874.4	5,900.1	5,405.4	8.9	18.9	-35.19	-577.8	-667.8	923.6	899.1	24.45	37.780		
5,000.0	4,948.4	5,882.6	5,405.5	9.5	18.6	-52.09	-564.9	-679.7	829.1	805.4	23.70	34.979		
5,100.0	5,009.6	5,862.0	5,405.5	10.5	18.2	-85.16	-549.8	-693.6	732.2	709.0	23.19	31.579		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU P26-2306 01H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 6888.0ft (Original Well Elev)
Reference Site:	S26-T23N-R6W	MD Reference:	WELL @ 6888.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	GCU P26-2306 01H	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

Offset Design GCU - GCU O26-2306 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		Total		Separation		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
5,200.0	5,059.7	5,843.0	5,405.6	11.7	17.9	-100.22	-535.9	-706.5	634.1	611.9	22.23	28.526		
5,300.0	5,109.7	5,840.1	5,405.6	13.0	17.8	107.34	-533.8	-708.4	534.3	510.6	23.64	22.597		
5,400.0	5,159.2	5,854.6	5,405.6	14.3	18.1	102.60	-544.4	-698.6	435.5	411.5	23.97	18.170		
5,500.0	5,206.6	5,886.1	5,405.5	15.5	18.7	106.86	-567.5	-677.3	340.7	316.0	24.70	13.791		
5,600.0	5,250.5	5,933.5	5,405.3	16.6	19.5	111.25	-602.4	-645.1	252.8	227.0	25.78	9.808		
5,700.0	5,289.5	5,995.5	5,405.1	17.6	20.7	115.78	-647.9	-603.1	174.6	147.4	27.14	6.432		
5,800.0	5,322.6	6,070.1	5,404.8	18.6	22.1	120.47	-702.7	-552.5	108.3	79.6	28.68	3.776		
5,900.0	5,348.6	6,155.1	5,404.5	19.6	23.7	126.84	-765.2	-494.8	56.2	26.5	29.65	1.895		
6,000.0	5,366.7	6,247.9	5,404.2	20.6	25.6	143.55	-833.4	-431.9	20.4	-5.6	28.01	0.786 Level 1		
6,088.9	5,375.9	6,334.7	5,403.9	21.4	27.3	-149.85	-897.2	-373.0	8.1	-16.8	24.88	0.326 Level 1		
6,100.0	5,376.6	6,345.7	5,403.9	21.5	27.5	-140.11	-905.3	-365.5	8.2	-21.1	29.29	0.281 Level 1		
6,200.0	5,378.2	6,445.6	5,403.5	22.4	29.5	-116.80	-978.7	-297.8	9.6	-30.6	40.20	0.239 Level 1		
6,300.0	5,377.8	6,545.6	5,403.2	23.5	31.5	-117.20	-1,052.2	-230.0	9.5	-33.8	43.25	0.219 Level 1		
6,400.0	5,377.5	6,645.6	5,402.8	24.7	33.5	-117.61	-1,125.6	-162.2	9.3	-37.0	46.38	0.201 Level 1		
6,500.0	5,377.1	6,745.6	5,402.5	26.0	35.5	-118.03	-1,199.1	-94.3	9.2	-40.3	49.56	0.186 Level 1		
6,600.0	5,376.8	6,845.6	5,402.1	27.4	37.6	-118.46	-1,272.6	-26.5	9.1	-43.7	52.78	0.172 Level 1		
6,700.0	5,376.4	6,945.6	5,401.8	28.9	39.6	-118.90	-1,346.1	41.3	9.0	-47.0	56.01	0.160 Level 1		
6,800.0	5,376.1	7,045.6	5,401.4	30.5	41.7	-119.36	-1,419.6	109.1	8.8	-50.4	59.24	0.149 Level 1		
6,900.0	5,375.7	7,145.6	5,401.1	32.1	43.8	-119.83	-1,493.1	176.9	8.7	-53.8	62.46	0.139 Level 1		
7,000.0	5,375.4	7,245.6	5,400.7	33.8	45.8	-120.31	-1,566.6	244.8	8.6	-57.1	65.68	0.131 Level 1		
7,100.0	5,375.0	7,345.6	5,400.4	35.5	47.9	-120.81	-1,640.0	312.6	8.5	-60.4	68.84	0.123 Level 1		
7,200.0	5,374.7	7,445.6	5,400.0	37.3	50.0	-121.32	-1,713.5	380.4	8.3	-63.6	71.99	0.116 Level 1		
7,300.0	5,374.3	7,545.6	5,399.7	39.1	52.1	-121.84	-1,787.0	448.2	8.2	-66.9	75.09	0.109 Level 1		
7,400.0	5,374.0	7,645.6	5,399.3	41.0	54.1	-122.39	-1,860.5	516.0	8.1	-70.1	78.15	0.104 Level 1		
7,500.0	5,373.7	7,745.6	5,399.0	42.8	56.2	-122.95	-1,934.0	583.9	8.0	-73.2	81.15	0.098 Level 1		
7,600.0	5,373.3	7,845.6	5,398.6	44.7	58.3	-123.52	-2,007.5	651.7	7.8	-76.3	84.11	0.093 Level 1		
7,700.0	5,373.0	7,945.6	5,398.3	46.6	60.4	-124.12	-2,081.0	719.5	7.7	-79.3	86.99	0.089 Level 1		
7,800.0	5,372.6	8,045.6	5,397.9	48.5	62.5	-124.73	-2,154.4	787.3	7.6	-82.2	89.81	0.085 Level 1		
7,900.0	5,372.3	8,145.6	5,397.6	50.5	64.6	-125.36	-2,227.9	855.2	7.5	-85.1	92.56	0.081 Level 1		
8,000.0	5,371.9	8,245.6	5,397.2	52.4	66.7	-126.02	-2,301.4	923.0	7.4	-87.8	95.22	0.077 Level 1		
8,100.0	5,371.6	8,345.6	5,396.9	54.4	68.8	-126.69	-2,374.9	990.8	7.3	-90.5	97.80	0.074 Level 1		
8,200.0	5,371.2	8,445.6	5,396.5	56.4	70.9	-127.39	-2,448.4	1,058.6	7.1	-93.1	100.28	0.071 Level 1		
8,300.0	5,370.9	8,545.6	5,396.2	58.3	73.0	-128.11	-2,521.9	1,126.4	7.0	-95.6	102.66	0.068 Level 1		
8,400.0	5,370.5	8,645.6	5,395.9	60.3	75.1	-128.85	-2,595.4	1,194.3	6.9	-98.0	104.94	0.066 Level 1		
8,500.0	5,370.2	8,745.6	5,395.5	62.3	77.2	-129.61	-2,668.8	1,262.1	6.8	-100.3	107.10	0.064 Level 1		
8,600.0	5,369.8	8,845.6	5,395.2	64.4	79.3	-130.41	-2,742.3	1,329.9	6.7	-102.4	109.13	0.061 Level 1		
8,700.0	5,369.5	8,945.6	5,394.8	66.4	81.4	-131.22	-2,815.8	1,397.7	6.6	-104.4	111.04	0.059 Level 1		
8,800.0	5,369.1	9,045.6	5,394.5	68.4	83.5	-132.07	-2,889.3	1,465.6	6.5	-106.3	112.80	0.057 Level 1		
8,900.0	5,368.8	9,145.6	5,394.1	70.4	85.6	-132.94	-2,962.8	1,533.4	6.4	-108.0	114.40	0.056 Level 1		
9,000.0	5,368.4	9,245.6	5,393.8	72.5	87.7	-133.85	-3,036.3	1,601.2	6.3	-109.6	115.85	0.054 Level 1		
9,100.0	5,368.1	9,345.6	5,393.4	74.5	89.8	-134.78	-3,109.7	1,669.0	6.2	-111.0	117.13	0.053 Level 1		
9,200.0	5,367.7	9,445.6	5,393.1	76.5	91.9	-135.74	-3,183.2	1,736.8	6.1	-112.2	118.22	0.051 Level 1		
9,300.0	5,367.4	9,545.6	5,392.7	78.6	94.0	-136.74	-3,256.7	1,804.7	6.0	-113.1	119.11	0.050 Level 1		
9,400.0	5,367.0	9,645.6	5,392.4	80.6	96.1	-137.77	-3,330.2	1,872.5	5.9	-113.9	119.80	0.049 Level 1		
9,500.0	5,366.7	9,745.6	5,392.0	82.7	98.2	-138.84	-3,403.7	1,940.3	5.8	-114.5	120.26	0.048 Level 1		
9,600.0	5,366.3	9,845.6	5,391.7	84.7	100.3	-139.94	-3,477.2	2,008.1	5.7	-114.8	120.50	0.047 Level 1		
9,700.0	5,366.0	9,945.6	5,391.3	86.8	102.4	-141.08	-3,550.7	2,075.9	5.6	-114.9	120.48	0.046 Level 1, ES		
9,800.0	5,365.6	10,045.6	5,391.0	88.9	104.5	-142.25	-3,624.1	2,143.8	5.5	-114.7	120.21	0.046 Level 1		
9,900.0	5,365.3	10,145.6	5,390.6	90.9	106.6	-143.47	-3,697.6	2,211.6	5.4	-114.2	119.66	0.045 Level 1		
10,000.0	5,364.9	10,245.6	5,390.3	93.0	108.7	-144.72	-3,771.1	2,279.4	5.3	-113.5	118.81	0.045 Level 1		
10,100.0	5,364.6	10,345.6	5,389.9	95.1	110.8	-146.01	-3,844.6	2,347.2	5.2	-112.4	117.67	0.045 Level 1		
10,200.0	5,364.2	10,445.6	5,389.6	97.1	112.9	-147.34	-3,918.1	2,415.1	5.2	-111.0	116.21	0.044 Level 1, SF		

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: S26-T23N-R6W
 Site Error: 0.0ft
 Reference Well: GCU P26-2306 01H
 Well Error: 0.0ft
 Reference Wellbore: Hz
 Reference Design: Plan #1

Local Co-ordinate Reference: Well GCU P26-2306 01H
 TVD Reference: WELL @ 6888.0ft (Original Well Elev)
 MD Reference: WELL @ 6888.0ft (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 GCU - GCU O26-2306 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	
10,300.0	5,363.9	10,545.6	5,389.2	99.2	115.0	-148.71	-3,991.6	2,482.9	5.1	-109.3	114.43	0.044 Level 1	
10,400.0	5,363.5	10,645.6	5,388.9	101.3	117.2	-150.13	-4,065.1	2,550.7	5.0	-107.3	112.30	0.045 Level 1	
10,500.0	5,363.2	10,745.6	5,388.5	103.4	119.3	-151.58	-4,138.5	2,618.5	4.9	-104.9	109.82	0.045 Level 1	
10,600.0	5,362.8	10,845.6	5,388.2	105.4	121.4	-153.08	-4,212.0	2,686.3	4.9	-102.1	106.98	0.046 Level 1	
10,700.0	5,362.5	10,945.6	5,387.8	107.5	123.5	-154.61	-4,285.5	2,754.2	4.8	-99.0	103.78	0.046 Level 1	
10,800.0	5,362.1	11,045.6	5,387.5	109.6	125.6	-156.19	-4,359.0	2,822.0	4.8	-95.5	100.21	0.047 Level 1	
10,900.0	5,361.8	11,145.6	5,387.1	111.7	127.7	-157.80	-4,432.5	2,889.8	4.7	-91.6	96.28	0.049 Level 1	
11,000.0	5,361.4	11,245.6	5,386.8	113.8	129.8	-159.45	-4,506.0	2,957.6	4.6	-87.3	92.00	0.051 Level 1	
11,100.0	5,361.1	11,345.6	5,386.4	115.9	131.9	-161.14	-4,579.5	3,025.5	4.6	-82.8	87.37	0.053 Level 1	
11,200.0	5,360.7	11,445.6	5,386.1	117.9	134.0	-162.86	-4,652.9	3,093.3	4.6	-77.9	82.43	0.055 Level 1	
11,300.0	5,360.4	11,545.6	5,385.8	120.0	136.1	-164.61	-4,726.4	3,161.1	4.5	-72.7	77.21	0.059 Level 1	
11,400.0	5,360.0	11,645.6	5,385.4	122.1	138.3	-166.39	-4,799.9	3,228.9	4.5	-67.3	71.77	0.062 Level 1	
11,500.0	5,359.7	11,745.6	5,385.1	124.2	140.4	-168.20	-4,873.4	3,296.7	4.5	-61.8	66.20	0.067 Level 1	
11,600.0	5,359.3	11,845.6	5,384.7	126.3	142.5	-170.04	-4,946.9	3,364.6	4.4	-56.2	60.61	0.073 Level 1	
11,700.0	5,359.0	11,945.6	5,384.4	128.4	144.6	-171.89	-5,020.4	3,432.4	4.4	-50.8	55.19	0.080 Level 1	
11,800.0	5,358.7	12,045.6	5,384.0	130.5	146.7	-173.76	-5,093.8	3,500.2	4.4	-45.8	50.18	0.087 Level 1	
11,900.0	5,358.3	12,145.6	5,383.7	132.6	148.8	-175.64	-5,167.3	3,568.0	4.4	-41.6	45.95	0.095 Level 1	
12,000.0	5,358.0	12,245.6	5,383.3	134.7	150.9	-177.54	-5,240.8	3,635.8	4.4	-38.6	42.96	0.102 Level 1	
12,100.0	5,357.6	12,345.6	5,383.0	136.8	153.0	-179.43	-5,314.3	3,703.7	4.4	-37.3	41.69	0.105 Level 1	
12,118.4	5,357.5	12,364.0	5,382.9	137.2	153.4	-179.78	-5,327.8	3,716.2	4.4	-37.3	41.68	0.105 Level 1, CC	
12,130.1	5,357.5	12,375.7	5,382.9	137.4	153.7	-179.99	-5,336.4	3,724.1	4.4	-37.4	41.71	0.105 Level 1	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU P26-2306 01H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 6888.0ft (Original Well Elev)
Reference Site:	S26-T23N-R6W	MD Reference:	WELL @ 6888.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	GCU P26-2306 01H	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

Offset Design Lybrook - Lybrook A01-2206 01H - Hz - Plan #6												Offset Site Error:	0.0 ft
Survey Program: 0-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	
11,500.0	5,359.7	7,647.3	5,355.1	124.2	59.7	89.46	-6,265.5	3,267.3	1,391.9	1,220.4	171.50	8.116	
11,600.0	5,359.3	7,577.9	5,355.7	126.3	58.0	89.48	-6,267.0	3,336.7	1,319.9	1,147.5	172.44	7.654	
11,700.0	5,359.0	7,508.4	5,356.3	128.4	56.3	89.50	-6,268.4	3,406.1	1,248.0	1,074.6	173.38	7.198	
11,800.0	5,358.7	7,439.0	5,356.9	130.5	54.7	89.52	-6,269.9	3,475.5	1,176.0	1,001.7	174.32	6.746	
11,900.0	5,358.3	7,369.6	5,357.5	132.6	53.0	89.55	-6,271.3	3,545.0	1,104.0	928.8	175.26	6.299	
12,000.0	5,358.0	7,300.1	5,358.1	134.7	51.3	89.58	-6,272.7	3,614.4	1,032.0	855.8	176.21	5.857	
12,100.0	5,357.6	7,230.7	5,358.7	136.8	49.7	89.61	-6,274.2	3,683.8	960.1	782.9	177.15	5.419	
12,130.1	5,357.5	7,209.8	5,358.9	137.4	49.2	89.63	-6,274.6	3,704.7	938.4	761.0	177.44	5.289 CC, ES, SF	

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Reference Site: S26-T23N-R6W
Site Error: 0.0ft
Reference Well: GCU P26-2306 01H
Well Error: 0.0ft
Reference Wellbore: Hz
Reference Design: Plan #1

Local Co-ordinate Reference: Well GCU P26-2306 01H
TVD Reference: WELL @ 6888.0ft (Original Well Elev)
MD Reference: WELL @ 6888.0ft (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 S26-T23N-R6W - GCU P26-2306 02H - 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			Distance					Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	83.04	3.6	29.8	30.0					
100.0	100.0	100.0	100.0	0.1	0.1	83.04	3.6	29.8	30.0	29.7	0.29	102.410		
200.0	200.0	200.0	200.0	0.3	0.3	83.04	3.6	29.8	30.0	29.4	0.64	46.752		
300.0	300.0	300.0	300.0	0.5	0.5	83.04	3.6	29.8	30.0	29.0	0.99	30.290		
400.0	400.0	400.0	400.0	0.7	0.7	83.04	3.6	29.8	30.0	28.7	1.34	22.402		
500.0	500.0	500.0	500.0	0.8	0.8	83.04	3.6	29.8	30.0	28.3	1.69	17.774		
600.0	600.0	600.0	600.0	1.0	1.0	83.04	3.6	29.8	30.0	28.0	2.04	14.730		
700.0	700.0	700.0	700.0	1.2	1.2	83.04	3.6	29.8	30.0	27.6	2.39	12.577		
800.0	800.0	800.0	800.0	1.4	1.4	83.04	3.6	29.8	30.0	27.3	2.74	10.972		
900.0	900.0	900.0	900.0	1.5	1.5	83.04	3.6	29.8	30.0	26.9	3.09	9.731		
1,000.0	1,000.0	1,000.0	1,000.0	1.7	1.7	83.04	3.6	29.8	30.0	26.6	3.43	8.742		
1,100.0	1,100.0	1,100.0	1,100.0	1.9	1.9	83.04	3.6	29.8	30.0	26.2	3.78	7.936		
1,200.0	1,200.0	1,200.0	1,200.0	2.1	2.1	83.04	3.6	29.8	30.0	25.9	4.13	7.266		
1,300.0	1,300.0	1,300.0	1,300.0	2.2	2.2	83.04	3.6	29.8	30.0	25.5	4.48	6.700		
1,400.0	1,400.0	1,400.0	1,400.0	2.4	2.4	83.04	3.6	29.8	30.0	25.2	4.83	6.216		
1,500.0	1,500.0	1,500.0	1,500.0	2.6	2.6	83.04	3.6	29.8	30.0	24.8	5.18	5.797		
1,600.0	1,600.0	1,600.0	1,600.0	2.8	2.8	83.04	3.6	29.8	30.0	24.5	5.53	5.431		
1,700.0	1,700.0	1,700.0	1,700.0	2.9	2.9	83.04	3.6	29.8	30.0	24.1	5.88	5.108		
1,800.0	1,800.0	1,800.0	1,800.0	3.1	3.1	83.04	3.6	29.8	30.0	23.8	6.23	4.822		
1,900.0	1,900.0	1,900.0	1,900.0	3.3	3.3	83.04	3.6	29.8	30.0	23.5	6.58	4.566		
2,000.0	2,000.0	2,000.0	2,000.0	3.5	3.5	83.04	3.6	29.8	30.0	23.1	6.93	4.336		
2,100.0	2,100.0	2,100.0	2,100.0	3.6	3.6	83.04	3.6	29.8	30.0	22.8	7.27	4.128		
2,200.0	2,200.0	2,200.0	2,200.0	3.8	3.8	83.04	3.6	29.8	30.0	22.4	7.62	3.939		
2,300.0	2,300.0	2,300.0	2,300.0	4.0	4.0	83.04	3.6	29.8	30.0	22.1	7.97	3.766		
2,400.0	2,400.0	2,400.0	2,400.0	4.2	4.2	83.04	3.6	29.8	30.0	21.7	8.32	3.608		
2,500.0	2,500.0	2,500.0	2,500.0	4.3	4.3	83.04	3.6	29.8	30.0	21.4	8.67	3.463		
2,600.0	2,600.0	2,600.0	2,600.0	4.5	4.5	83.04	3.6	29.8	30.0	21.0	9.02	3.329		
2,700.0	2,700.0	2,700.0	2,700.0	4.7	4.7	83.04	3.6	29.8	30.0	20.7	9.37	3.205		
2,800.0	2,800.0	2,800.0	2,800.0	4.9	4.9	83.04	3.6	29.8	30.0	20.3	9.72	3.090		
2,900.0	2,900.0	2,900.0	2,900.0	5.0	5.0	83.04	3.6	29.8	30.0	20.0	10.07	2.983		
3,000.0	3,000.0	3,000.0	3,000.0	5.2	5.2	83.04	3.6	29.8	30.0	19.6	10.42	2.883		
3,100.0	3,100.0	3,100.0	3,100.0	5.4	5.4	83.04	3.6	29.8	30.0	19.3	10.77	2.789		
3,200.0	3,200.0	3,200.0	3,200.0	5.6	5.6	83.04	3.6	29.8	30.0	18.9	11.11	2.702		
3,300.0	3,300.0	3,300.0	3,300.0	5.7	5.7	83.04	3.6	29.8	30.0	18.6	11.46	2.619		
3,400.0	3,400.0	3,400.0	3,400.0	5.9	5.9	83.04	3.6	29.8	30.0	18.2	11.81	2.542		
3,500.0	3,500.0	3,500.0	3,500.0	6.1	6.1	83.04	3.6	29.8	30.0	17.9	12.16	2.469		
3,600.0	3,600.0	3,600.0	3,600.0	6.3	6.3	83.04	3.6	29.8	30.0	17.5	12.51	2.400		
3,700.0	3,700.0	3,700.0	3,700.0	6.4	6.4	83.04	3.6	29.8	30.0	17.2	12.86	2.335		
3,800.0	3,800.0	3,800.0	3,800.0	6.6	6.6	83.04	3.6	29.8	30.0	16.8	13.21	2.273		
3,900.0	3,900.0	3,900.0	3,900.0	6.8	6.8	83.04	3.6	29.8	30.0	16.5	13.56	2.215		
4,000.0	4,000.0	4,000.0	4,000.0	7.0	7.0	83.04	3.6	29.8	30.0	16.1	13.91	2.159		
4,100.0	4,100.0	4,100.0	4,100.0	7.1	7.1	83.04	3.6	29.8	30.0	15.8	14.26	2.106		
4,200.0	4,200.0	4,200.0	4,200.0	7.3	7.3	83.04	3.6	29.8	30.0	15.4	14.60	2.056		
4,300.0	4,300.0	4,300.0	4,300.0	7.5	7.5	83.04	3.6	29.8	30.0	15.1	14.95	2.008		
4,400.0	4,400.0	4,400.0	4,400.0	7.7	7.7	83.04	3.6	29.8	30.0	14.7	15.30	1.962		
4,500.0	4,500.0	4,500.0	4,500.0	7.8	7.8	83.04	3.6	29.8	30.0	14.4	15.65	1.918 CC, ES, SF		
4,600.0	4,599.8	4,599.8	4,599.8	8.0	8.0	-161.74	3.6	29.8	34.3	18.4	15.93	2.153		
4,700.0	4,697.4	4,697.4	4,697.4	8.2	8.2	-168.25	3.6	29.8	54.7	38.9	15.89	3.446		
4,800.0	4,789.9	4,789.9	4,789.9	8.5	8.3	-172.53	3.6	29.8	92.0	76.5	15.52	5.930		
4,900.0	4,874.4	4,858.0	4,857.9	8.9	8.5	-174.12	4.9	33.1	149.5	134.6	14.85	10.063		
5,000.0	4,948.4	4,900.0	4,899.4	9.5	8.5	-174.04	7.0	38.9	227.0	213.0	13.97	16.251		
5,100.0	5,009.6	4,934.5	4,933.2	10.5	8.6	-172.81	9.5	45.8	317.2	304.1	13.04	24.324		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU P26-2306 01H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 6888.0ft (Original Well Elev)
Reference Site:	S26-T23N-R6W	MD Reference:	WELL @ 6888.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	GCU P26-2306 01H	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

Offset Design S26-T23N-R6W - GCU P26-2306 02H - 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									
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		
5,200.0	5,059.7	4,950.0	4,948.1	11.7	8.6	-148.43	10.9	49.5	413.3	398.2	15.12	27.337			
5,300.0	5,109.7	4,964.9	4,962.4	13.0	8.7	-124.88	12.3	53.4	508.1	489.3	18.75	27.092			
5,400.0	5,159.2	4,977.6	4,974.5	14.3	8.7	-109.59	13.7	57.0	599.7	578.7	21.08	28.454			
5,500.0	5,206.6	5,000.0	4,995.6	15.5	8.7	-100.13	16.2	64.0	687.5	665.1	22.38	30.723			
5,600.0	5,250.5	5,000.0	4,995.6	16.6	8.7	-90.28	16.2	64.0	770.1	746.8	23.20	33.185			
5,700.0	5,289.5	5,000.0	4,995.6	17.6	8.7	-82.86	16.2	64.0	847.3	823.9	23.43	36.171			
5,800.0	5,322.6	5,018.6	5,012.9	18.6	8.8	-78.80	18.6	70.4	918.1	894.7	23.38	39.277			
5,900.0	5,348.6	5,026.9	5,020.6	19.6	8.8	-75.11	19.7	73.5	982.3	959.2	23.11	42.504			
6,000.0	5,366.7	5,034.7	5,027.8	20.6	8.8	-72.56	20.8	76.4	1,039.2	1,016.5	22.69	45.801			
6,100.0	5,376.6	5,050.0	5,041.6	21.5	8.9	-71.50	23.0	82.4	1,088.4	1,066.2	22.22	48.976			
6,200.0	5,378.2	5,050.0	5,041.6	22.4	8.9	-70.74	23.0	82.4	1,130.3	1,108.0	22.28	50.724			
6,300.0	5,377.8	5,050.0	5,041.6	23.5	8.9	-70.74	23.0	82.4	1,175.9	1,152.1	23.79	49.437			
6,400.0	5,377.5	5,050.0	5,041.6	24.7	8.9	-70.74	23.0	82.4	1,227.9	1,202.6	25.39	48.361			
6,500.0	5,377.1	5,071.1	5,060.4	26.0	8.9	-71.89	26.2	91.2	1,285.3	1,258.0	27.27	47.137			
6,600.0	5,376.8	5,079.3	5,067.7	27.4	9.0	-72.34	27.6	94.9	1,347.7	1,318.6	29.10	46.319			

Anticollision Report

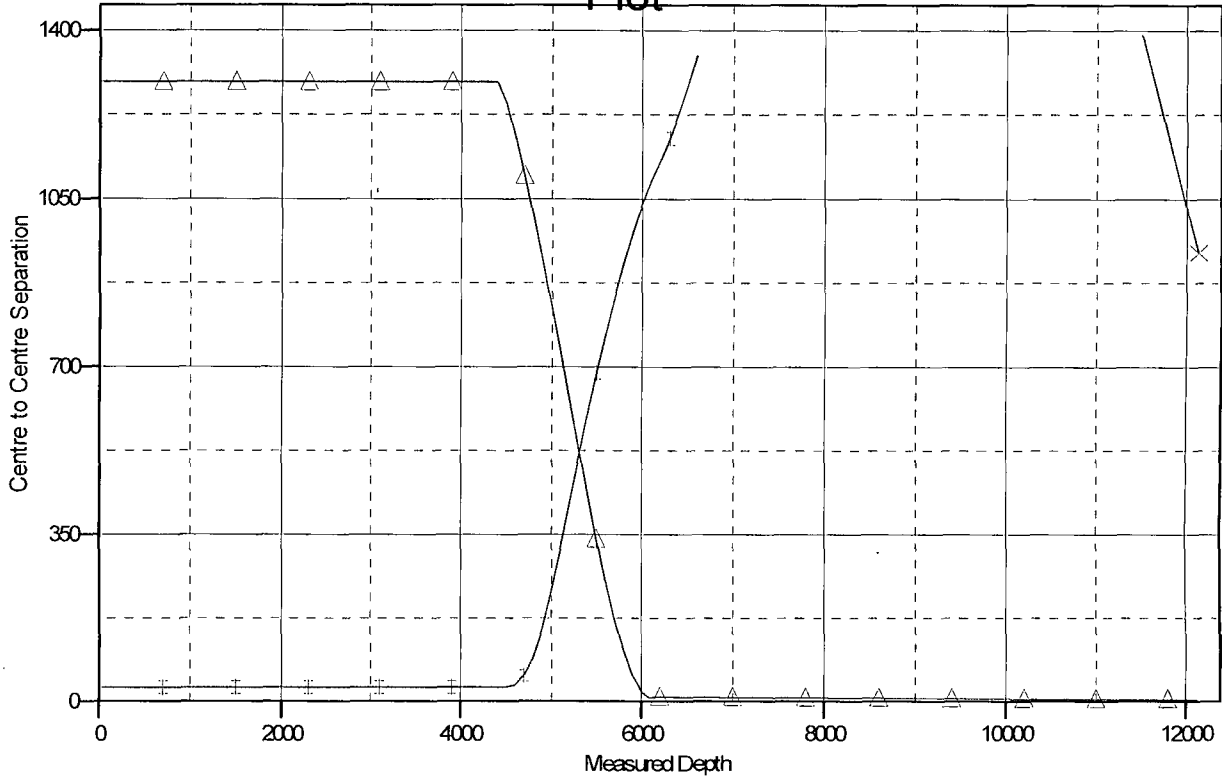
Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Reference Site: S26-T23N-R6W
Site Error: 0.0ft
Reference Well: GCU P26-2306 01H
Well Error: 0.0ft
Reference Wellbore: Hz
Reference Design: Plan #1

Local Co-ordinate Reference: Well GCU P26-2306 01H
TVD Reference: WELL @ 6888.0ft (Original Well Elev)
MD Reference: WELL @ 6888.0ft (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 @ 6888.0ft (Original Well Elev)
 Offset Depths are relative to Offset Datum
 Central Meridian is -106.250000 °

Coordinates are relative to: GCU P26-2306 01H
 Coordinate System is US State Plane 1983, New Mexico Central Zone
 Grid Convergence at Surface is: -0.70°

Ladder Plot



LEGEND

✕ Lybrook A01-2206 01H, Hz, Plan #6 V0 △ GCU P26-2306 01H, Hz, Plan #1 V0 ✕ GCU P26-2306 02H, Hz, Plan #1 V0