

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 3160-4 or 3160-5 form

Operator Signature Date: 1/7/15

Well information:

API WELL #	Well Name	Well #	Operator Name	Type	Stat	County	Surf_Owner	UL	Sec	Twp	N/S	Rng	W/E	Feet	NS	Ft	EW
30-045-35558-00-00	NAGEEZI UNIT A28 2409	001H	ENCANA OIL & GAS (USA) INC.	O	N	San Juan	F	A	28	24	N	9	W	1223	N	346	E

Drilling/Casing Change

Conditions of Approval:

(See the below checked and additional conditions)

- ✓ Notify Aztec OCD 24hrs prior to casing & cement.
- ✓ Hold C-104 for directional survey & "As Drilled" Plat
- ✓ Hold C-104 for ✓ NSL, ☐ NSP, ☐ DHC
- ☐ Spacing rule violation. Operator must follow up with change of status notification on other well to be shut in or abandoned
- ☐ Ensure compliance with 19.15.17
- ☐ 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.

Additional requirements

Charlie T. Lerrin

NMOCD Approved by Signature

1-15-15

Date

Form 3160-3
(August 2007)

JAN 08 2015

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

~~Form 3160-3~~ Do not use this form for proposals to drill or to re-enter an
Bureau of abandoned well. Use Form 3160-3 (APD) for such proposals.

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

5. Lease Serial No.
NMMN 12374

6. If Indian, Allottee or Tribe Name
N/A

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

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

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

3b. Phone No. (include area code)
720-876-5994

7. If Unit of CA/Agreement, Name and/or No.
R-13856

8. Well Name and No.
Nageezi A28-2409 01H

9. API Well No.
30-045-35558

10. Field and Pool or Exploratory Area
Bisti Lower - Gallup/Basin Mancos

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SHL: 1223' FNL, 346' FEL, Section 28, Township 24N, Range 9W
BHL: 1360' FNL, 330' FWL, Section 28, Township 24N, Range 9W

11. Country or Parish, State
San Juan County, New Mexico

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

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

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or 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.)

The BHL for the Nageezi A28-2409 01H was modified from 400' FNL, 330' FWL (Section 28, T24N, R9W) to 1360' FNL, 330' FWL (Section 28, T24N, R9W). The POE for the Nageezi A28-2409 01H was also modified from 400' FNL, 660' FEL (Section 28, T24N, R9W) to 1360' FSL, 170' FEL (Section 28 T24N, R9W). The well pad has been rotate 6° to the NW holding Corner 5, and Corner 6 of the pad has been rounded to keep fill within the edge of disturbance. Attached is a C-102, Well Pad Diagram, Directional Plan, Drilling Plan and Wellbore Diagram, which have been updated to reflect these changes. The plans were also updated to include a cemented production liner, instead of running open hole swell packers, as previously planned. Finally, the 7" ICP was moved from approximately 72 degrees to 55 degrees.

OIL CONS. DIV DIST. 3

JAN 14 2015

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)

Shawn Turk

Title Regulatory Analyst

Signature

Shawn Turk

Date

1/7/15

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

William Tambekou

Title

Petroleum Engineer

Date

1/12/2015

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

FFD

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)

NMOCDAV

District I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35558	² Pool Code 98080	³ Pool Name NAGEEZI UNIT HZ (OIL)
⁴ Property Code 313758	⁵ Property Name NAGEEZI UNIT A28-2409	
⁷ OGRID No. 282327	⁸ Operator Name ENCANA OIL & GAS (USA) INC.	⁶ Well Number 01H
		⁹ Elevation 6863'

¹⁰ Surface Location

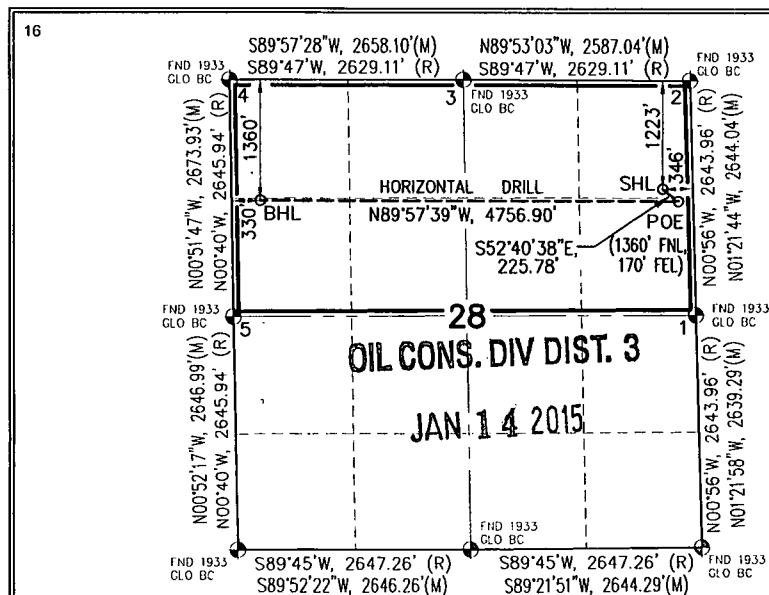
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
A	28	24N	9W		1223	NORTH	346	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
E	28	24N	9W		1360	NORTH	330	WEST	SAN JUAN

¹² Dedicated Acres 320 321.03 ACRES	PROJECT AREA N/2 SECTION 28	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-13856 9135.51 Acres
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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.



A28-2409 01H WELL

SHL (WELL FLAG)

LAT. 36.288977° N (NAD83)
LONG. 107.786844° W (NAD83)
LAT. 36.288965° N (NAD27)
LONG. 107.786229° W (NAD27)

POE (POINT OF ENTRY)

LAT. 36.288600° N (NAD83)
LONG. 107.786235° W (NAD83)
LAT. 36.288588° N (NAD27)
LONG. 107.785621° W (NAD27)

BHL (BOTTOM HOLE LOCATION)

LAT. 36.288620° N (NAD83)
LONG. 107.802370° W (NAD83)
LAT. 36.288608° N (NAD27)
LONG. 107.801755° W (NAD27)

SECTION CORNERS

1 LAT. 36.285075° N (NAD83) LONG. 107.785559° W (NAD83) LAT. 36.285063° N (NAD27) LONG. 107.784944° W (NAD27)	4 LAT. 36.292355° N (NAD83) LONG. 107.803556° W (NAD83) LAT. 36.292343° N (NAD27) LONG. 107.802940° W (NAD27)
2 LAT. 36.292334° N (NAD83) LONG. 107.785764° W (NAD83) LAT. 36.292322° N (NAD27) LONG. 107.785149° W (NAD27)	5 LAT. 36.285013° N (NAD83) LONG. 107.803426° W (NAD83) LAT. 36.285001° N (NAD27) LONG. 107.802811° W (NAD27)
3 LAT. 36.292354° N (NAD83) LONG. 107.794539° W (NAD83) LAT. 36.292343° N (NAD27) LONG. 107.793924° N (NAD27)	

17 OPERATOR CERTIFICATION

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

Signature *Shawn Turk* Date *1/7/15*

Shawn Turk

Printed Name

shawn.turk@encana.com

E-mail Address

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

December 10, 2014

Date of Survey

Signature and Seal of Professional Surveyor:

Richard L. Mulliken
RICHARD L. MULLIKEN
NEW MEXICO
16873
PROFESSIONAL SURVEYOR

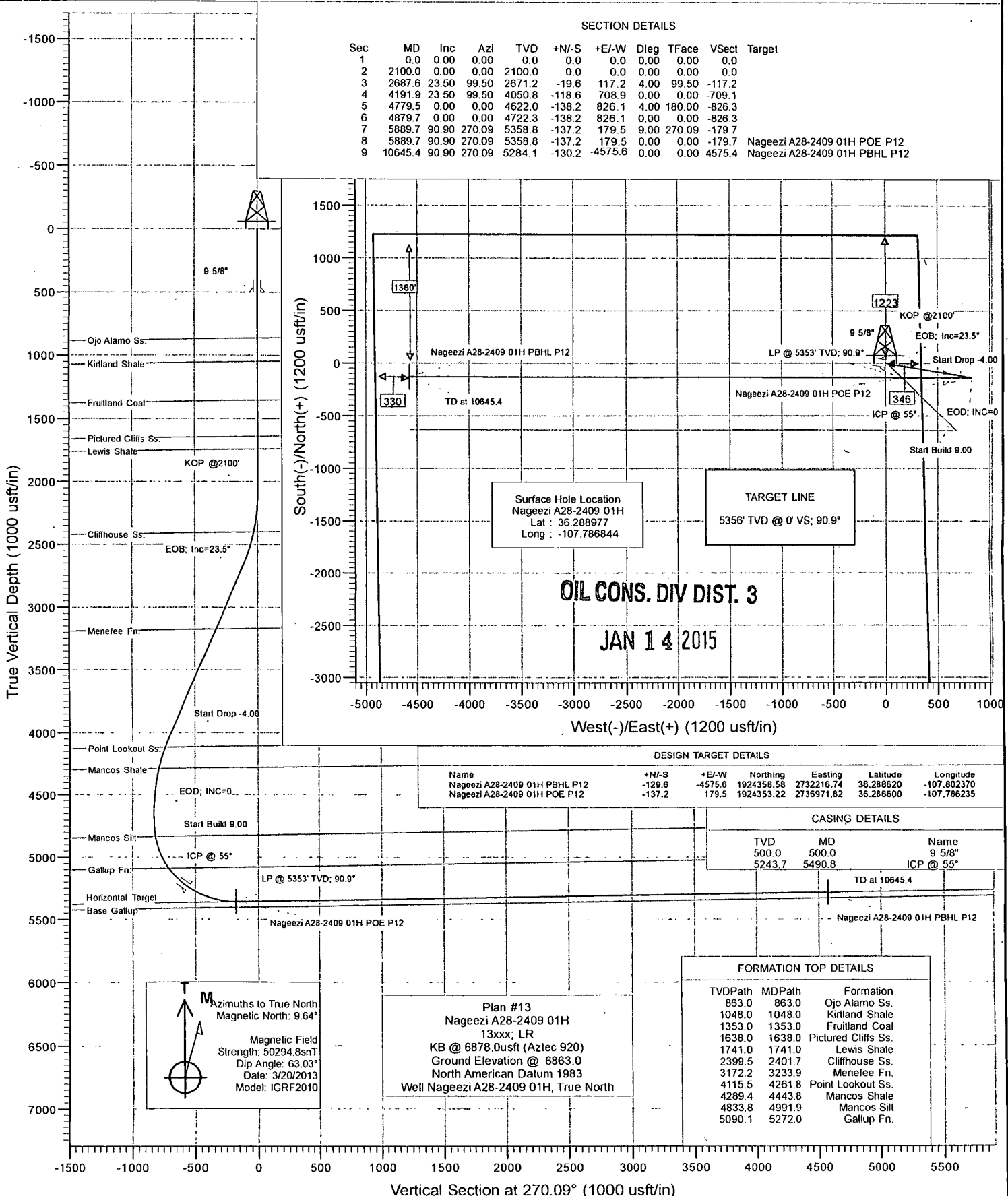
RICHARD L. MULLIKEN

Certificate Number

16873

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	2100.0	0.00	0.00	2100.0	0.0	0.0	0.00	0.00	0.0	
3	2687.6	23.50	99.50	2671.2	-19.6	117.2	4.00	99.50	-117.2	
4	4191.9	23.50	99.50	4050.8	-118.6	708.9	0.00	0.00	-709.1	
5	4779.5	0.00	0.00	4622.0	-138.2	826.1	4.00	180.00	-826.3	
6	4879.7	0.00	0.00	4722.3	-138.2	826.1	0.00	0.00	-826.3	
7	5889.7	90.90	270.09	5358.8	-137.2	179.5	9.00	270.09	-179.7	Nageezi A28-2409 01H POE P12
8	5889.7	90.90	270.09	5358.8	-137.2	179.5	0.00	0.00	-179.7	Nageezi A28-2409 01H PBHL P12
9	10645.4	90.90	270.09	5284.1	-130.2	-4575.6	0.00	0.00	4575.4	



OIL CONS. DIV DIST. 3

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DESIGN TARGET DETAILS

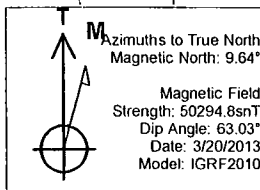
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Nageezi A28-2409 01H PBHL P12	-129.6	-4575.6	1924358.58	2732216.74	36.288620	-107.802370
Nageezi A28-2409 01H POE P12	-137.2	179.5	1924353.22	2736971.82	36.288600	-107.786235

CASING DETAILS

TVD	MD	Name
500.0	500.0	9 5/8"
5243.7	5490.8	ICP @ 55°

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
863.0	863.0	Ojo Alamo Ss.
1048.0	1048.0	Kirtland Shale
1353.0	1353.0	Fruitland Coal
1638.0	1638.0	Pictured Cliffs Ss.
1741.0	1741.0	Lewis Shale
2399.5	2401.7	Cliffhouse Ss.
3172.2	3233.9	Menefee Fm.
4115.5	4261.8	Point Lookout Ss.
4289.4	4443.8	Mancos Shale
4833.8	4991.9	Mancos Silt
5090.1	5272.0	Gallup Fm.



Plan #13
Nageezi A28-2409 01H
13xxx; LR
KB @ 6878.0usft (Aztec 920)
Ground Elevation @ 6863.0
North American Datum 1983
Well Nageezi A28-2409 01H, True North

Vertical Section at 270.09° (1000 usft/in)

Cathedral Energy Services
Planning Report

JAN 14 2015

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Project:	San Juan County, NM	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site:	S28-T24N-R9W	North Reference:	True
Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #13		

Project	San Juan County, NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	S28-T24N-R9W				
Site Position:		Northing:	1,924,425.96 usft	Latitude:	36.288800
From:	Lat/Long	Easting:	2,736,837.70 usft	Longitude:	-107.786690
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.03 °

Well:	Nageezi A28-2409 01H					
Well Position	+N/-S	0.0 usft	Northing:	1,924,490.37 usft	Latitude:	36.288977
	+E/-W	0.0 usft	Easting:	2,736,792.28 usft	Longitude:	-107.786844
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	6,863.0 usft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/20/2013	9.64	63.03	50,295

Design:	Plan #13			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	270.09

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,687.6	23.50	99.50	2,671.2	-19.6	117.2	4.00	4.00	0.00	99.50	
4,191.9	23.50	99.50	4,050.8	-118.6	708.9	0.00	0.00	0.00	0.00	
4,779.5	0.00	0.00	4,622.0	-138.2	826.1	4.00	-4.00	0.00	180.00	
4,879.7	0.00	0.00	4,722.3	-138.2	826.1	0.00	0.00	0.00	0.00	
5,889.7	90.90	270.09	5,358.8	-137.2	179.5	9.00	9.00	0.00	270.09	
5,889.7	90.90	270.09	5,358.8	-137.2	179.5	0.00	0.00	0.00	0.00	Nageezi A28-2409 01
10,645.4	90.90	270.09	5,284.1	-130.2	-4,575.6	0.00	0.00	0.00	0.00	Nageezi A28-2409 01

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Project:	San Juan County, NM	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site:	S28-T24N-R9W	North Reference:	True
Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #13		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	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	
863.0	0.00	0.00	863.0	0.0	0.0	0.0	0.00	0.00	Ojo Alamo Ss.
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	
1,048.0	0.00	0.00	1,048.0	0.0	0.0	0.0	0.00	0.00	Kirtland Shale
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	
1,353.0	0.00	0.00	1,353.0	0.0	0.0	0.0	0.00	0.00	Fruitland Coal
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	
1,500.0	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	
1,638.0	0.00	0.00	1,638.0	0.0	0.0	0.0	0.00	0.00	Pictured Cliffs Ss.
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	
1,741.0	0.00	0.00	1,741.0	0.0	0.0	0.0	0.00	0.00	Lewis Shale
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	KOP @2100'
2,200.0	4.00	99.50	2,199.9	-0.6	3.4	-3.4	4.00	4.00	
2,300.0	8.00	99.50	2,299.4	-2.3	13.7	-13.8	4.00	4.00	
2,400.0	12.00	99.50	2,397.8	-5.2	30.9	-30.9	4.00	4.00	
2,401.7	12.07	99.50	2,399.5	-5.2	31.2	-31.2	4.00	4.00	Cliffhouse Ss.
2,500.0	16.00	99.50	2,494.8	-9.2	54.7	-54.7	4.00	4.00	
2,600.0	20.00	99.50	2,589.9	-14.3	85.2	-85.2	4.00	4.00	
2,687.6	23.50	99.50	2,671.2	-19.6	117.2	-117.2	4.00	4.00	EOB; Inc=23.5°
2,700.0	23.50	99.50	2,682.6	-20.4	122.1	-122.1	0.00	0.00	
2,800.0	23.50	99.50	2,774.3	-27.0	161.4	-161.5	0.00	0.00	
2,900.0	23.50	99.50	2,866.0	-33.6	200.8	-200.8	0.00	0.00	
3,000.0	23.50	99.50	2,957.7	-40.2	240.1	-240.2	0.00	0.00	
3,100.0	23.50	99.50	3,049.4	-46.7	279.4	-279.5	0.00	0.00	
3,200.0	23.50	99.50	3,141.1	-53.3	318.8	-318.8	0.00	0.00	
3,233.9	23.50	99.50	3,172.2	-55.6	332.1	-332.2	0.00	0.00	Menefee Fn.
3,300.0	23.50	99.50	3,232.9	-59.9	358.1	-358.2	0.00	0.00	
3,400.0	23.50	99.50	3,324.6	-66.5	397.4	-397.5	0.00	0.00	
3,500.0	23.50	99.50	3,416.3	-73.1	436.8	-436.9	0.00	0.00	
3,600.0	23.50	99.50	3,508.0	-79.6	476.1	-476.2	0.00	0.00	
3,700.0	23.50	99.50	3,599.7	-86.2	515.4	-515.6	0.00	0.00	
3,800.0	23.50	99.50	3,691.4	-92.8	554.8	-554.9	0.00	0.00	
3,900.0	23.50	99.50	3,783.1	-99.4	594.1	-594.2	0.00	0.00	
4,000.0	23.50	99.50	3,874.8	-106.0	633.4	-633.6	0.00	0.00	
4,100.0	23.50	99.50	3,966.5	-112.5	672.7	-672.9	0.00	0.00	
4,191.9	23.50	99.50	4,050.8	-118.6	708.9	-709.1	0.00	0.00	Start Drop -4.00
4,200.0	23.18	99.50	4,058.2	-119.1	712.1	-712.2	4.00	-4.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Project:	San Juan County, NM	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site:	S28-T24N-R9W	North Reference:	True
Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #13		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
4,261.8	20.71	99.50	4,115.5	-122.9	734.8	-735.0	4.00	-4.00	Point Lookout Ss.
4,300.0	19.18	99.50	4,151.4	-125.1	747.7	-747.9	4.00	-4.00	
4,400.0	15.18	99.50	4,246.9	-130.0	776.8	-777.0	4.00	-4.00	
4,443.8	13.43	99.50	4,289.4	-131.7	787.5	-787.7	4.00	-4.00	Mancos Shale
4,500.0	11.18	99.50	4,344.3	-133.7	799.3	-799.5	4.00	-4.00	
4,600.0	7.18	99.50	4,443.0	-136.3	815.0	-815.2	4.00	-4.00	
4,700.0	3.18	99.50	4,542.6	-137.8	823.9	-824.1	4.00	-4.00	
4,779.5	0.00	0.00	4,622.0	-138.2	826.1	-826.3	4.00	-4.00	EOD; INC=0
4,800.0	0.00	0.00	4,642.5	-138.2	826.1	-826.3	0.00	0.00	
4,879.7	0.00	0.00	4,722.3	-138.2	826.1	-826.3	0.00	0.00	Start Build 9.00
4,900.0	1.82	270.09	4,742.5	-138.2	825.8	-826.0	9.00	9.00	
4,991.9	10.09	270.09	4,833.8	-138.2	816.2	-816.5	9.00	9.00	Mancos Silt
5,000.0	10.82	270.09	4,841.8	-138.2	814.8	-815.0	9.00	9.00	
5,100.0	19.82	270.09	4,938.2	-138.1	788.4	-788.6	9.00	9.00	
5,200.0	28.82	270.09	5,029.2	-138.1	747.2	-747.4	9.00	9.00	
5,272.0	35.30	270.09	5,090.1	-138.0	709.0	-709.3	9.00	9.00	Gallup Fn.
5,300.0	37.82	270.09	5,112.7	-138.0	692.3	-692.6	9.00	9.00	
5,400.0	46.82	270.09	5,186.5	-137.9	625.1	-625.3	9.00	9.00	
5,490.8	55.00	270.09	5,243.7	-137.8	554.7	-554.9	9.00	9.00	ICP @ 55°
5,500.0	55.82	270.09	5,248.9	-137.8	547.1	-547.3	9.00	9.00	
5,600.0	64.82	270.09	5,298.4	-137.7	460.3	-460.5	9.00	9.00	
5,700.0	73.82	270.09	5,333.7	-137.5	366.8	-367.1	9.00	9.00	
5,800.0	82.82	270.09	5,353.9	-137.4	269.0	-269.2	9.00	9.00	
5,889.7	90.90	270.09	5,358.8	-137.2	179.5	-179.7	9.00	9.00	LP @ 5353' TVD; 90.9°
5,900.0	90.90	270.09	5,358.6	-137.2	169.2	-169.4	0.00	0.00	
6,000.0	90.90	270.09	5,357.1	-137.1	69.2	-69.4	0.00	0.00	
6,100.0	90.90	270.09	5,355.5	-136.9	-30.8	30.5	0.00	0.00	
6,200.0	90.90	270.09	5,353.9	-136.8	-130.7	130.5	0.00	0.00	
6,300.0	90.90	270.09	5,352.4	-136.6	-230.7	230.5	0.00	0.00	
6,400.0	90.90	270.09	5,350.8	-136.5	-330.7	330.5	0.00	0.00	
6,500.0	90.90	270.09	5,349.2	-136.3	-430.7	430.5	0.00	0.00	
6,600.0	90.90	270.09	5,347.6	-136.2	-530.7	530.5	0.00	0.00	
6,700.0	90.90	270.09	5,346.1	-136.0	-630.7	630.5	0.00	0.00	
6,800.0	90.90	270.09	5,344.5	-135.9	-730.7	730.5	0.00	0.00	
6,900.0	90.90	270.09	5,342.9	-135.7	-830.7	830.4	0.00	0.00	
7,000.0	90.90	270.09	5,341.4	-135.6	-930.6	930.4	0.00	0.00	
7,100.0	90.90	270.09	5,339.8	-135.4	-1,030.6	1,030.4	0.00	0.00	
7,200.0	90.90	270.09	5,338.2	-135.3	-1,130.6	1,130.4	0.00	0.00	
7,300.0	90.90	270.09	5,336.6	-135.1	-1,230.6	1,230.4	0.00	0.00	
7,400.0	90.90	270.09	5,335.1	-135.0	-1,330.6	1,330.4	0.00	0.00	
7,500.0	90.90	270.09	5,333.5	-134.8	-1,430.6	1,430.4	0.00	0.00	
7,600.0	90.90	270.09	5,331.9	-134.7	-1,530.6	1,530.4	0.00	0.00	
7,700.0	90.90	270.09	5,330.4	-134.5	-1,630.6	1,630.3	0.00	0.00	
7,800.0	90.90	270.09	5,328.8	-134.4	-1,730.5	1,730.3	0.00	0.00	
7,900.0	90.90	270.09	5,327.2	-134.2	-1,830.5	1,830.3	0.00	0.00	
8,000.0	90.90	270.09	5,325.7	-134.1	-1,930.5	1,930.3	0.00	0.00	
8,100.0	90.90	270.09	5,324.1	-133.9	-2,030.5	2,030.3	0.00	0.00	
8,200.0	90.90	270.09	5,322.5	-133.8	-2,130.5	2,130.3	0.00	0.00	
8,300.0	90.90	270.09	5,320.9	-133.6	-2,230.5	2,230.3	0.00	0.00	
8,400.0	90.90	270.09	5,319.4	-133.5	-2,330.5	2,330.3	0.00	0.00	
8,500.0	90.90	270.09	5,317.8	-133.4	-2,430.5	2,430.2	0.00	0.00	
8,600.0	90.90	270.09	5,316.2	-133.2	-2,530.4	2,530.2	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Project:	San Juan County, NM	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site:	S28-T24N-R9W	North Reference:	True
Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #13		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
8,700.0	90.90	270.09	5,314.7	-133.1	-2,630.4	2,630.2	0.00	0.00	
8,800.0	90.90	270.09	5,313.1	-132.9	-2,730.4	2,730.2	0.00	0.00	
8,900.0	90.90	270.09	5,311.5	-132.8	-2,830.4	2,830.2	0.00	0.00	
9,000.0	90.90	270.09	5,309.9	-132.6	-2,930.4	2,930.2	0.00	0.00	
9,100.0	90.90	270.09	5,308.4	-132.5	-3,030.4	3,030.2	0.00	0.00	
9,200.0	90.90	270.09	5,306.8	-132.3	-3,130.4	3,130.2	0.00	0.00	
9,300.0	90.90	270.09	5,305.2	-132.2	-3,230.4	3,230.1	0.00	0.00	
9,400.0	90.90	270.09	5,303.7	-132.0	-3,330.3	3,330.1	0.00	0.00	
9,500.0	90.90	270.09	5,302.1	-131.9	-3,430.3	3,430.1	0.00	0.00	
9,600.0	90.90	270.09	5,300.5	-131.7	-3,530.3	3,530.1	0.00	0.00	
9,700.0	90.90	270.09	5,299.0	-131.6	-3,630.3	3,630.1	0.00	0.00	
9,800.0	90.90	270.09	5,297.4	-131.4	-3,730.3	3,730.1	0.00	0.00	
9,900.0	90.90	270.09	5,295.8	-131.3	-3,830.3	3,830.1	0.00	0.00	
10,000.0	90.90	270.09	5,294.2	-131.1	-3,930.3	3,930.1	0.00	0.00	
10,100.0	90.90	270.09	5,292.7	-131.0	-4,030.3	4,030.0	0.00	0.00	
10,200.0	90.90	270.09	5,291.1	-130.8	-4,130.2	4,130.0	0.00	0.00	
10,300.0	90.90	270.09	5,289.5	-130.7	-4,230.2	4,230.0	0.00	0.00	
10,400.0	90.90	270.09	5,288.0	-130.5	-4,330.2	4,330.0	0.00	0.00	
10,500.0	90.90	270.09	5,286.4	-130.4	-4,430.2	4,430.0	0.00	0.00	
10,600.0	90.90	270.09	5,284.8	-130.2	-4,530.2	4,530.0	0.00	0.00	
10,645.4	90.90	270.09	5,284.1	-130.2	-4,575.6	4,575.4	0.00	0.00	TD at 10645.4

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Project:	San Juan County, NM	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site:	S28-T24N-R9W	North Reference:	True
Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #13		

Targets									
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude Longitude
Nageezi A28-2409 01H I	- plan misses target center by 0.6usft at 10645.4usft MD (5284.1 TVD, -130.2 N, -4575.6 E)	0.00	0.00	5,284.1	-129.6	-4,575.6	1,924,358.58	2,732,216.74	36.288620 -107.802370
Nageezi A28-2409 01H I	- plan hits target center	0.00	0.00	5,358.8	-137.2	179.5	1,924,353.22	2,736,971.82	36.288600 -107.786235
Escrito A28-2409 01H P	- plan misses target center by 960.6usft at 6403.0usft MD (5350.7 TVD, -136.5 N, -333.7 E)	0.00	0.00	5,324.5	823.8	-331.8	1,925,314.00	2,736,460.06	36.291240 -107.787970
Nageezi A28-2409 01H I	- plan misses target center by 960.6usft at 6403.0usft MD (5350.7 TVD, -136.5 N, -333.7 E)	0.00	0.00	5,324.5	823.8	-331.8	1,925,314.00	2,736,460.06	36.291240 -107.787970
Escrito A28-2409 01H P	- plan misses target center by 966.4usft at 10645.4usft MD (5284.1 TVD, -130.2 N, -4575.6 E)	0.00	0.00	5,189.0	831.4	-4,590.2	1,925,319.60	2,732,201.70	36.291260 -107.802420
Escrito A28-2409 01H P	- plan misses target center by 967.4usft at 6404.4usft MD (5350.7 TVD, -136.5 N, -335.1 E)	0.00	0.00	5,233.5	823.8	-331.8	1,925,314.00	2,736,460.06	36.291240 -107.787970
Nageezi A28-2409 01H I	- plan misses target center by 961.7usft at 10645.4usft MD (5284.1 TVD, -130.2 N, -4575.6 E)	0.00	0.00	5,279.9	831.4	-4,590.2	1,925,319.60	2,732,201.70	36.291260 -107.802420
Nageezi A28-2409 01H I	- plan misses target center by 960.6usft at 6402.9usft MD (5350.7 TVD, -136.5 N, -333.6 E)	0.00	0.00	5,326.0	823.8	-331.8	1,925,314.00	2,736,460.06	36.291240 -107.787970

500.0	500.0	9 5/8"	0	0
5,490.8	5,243.7	ICP @ 55°	0	0

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
863.0	863.0	Ojo Alamo Ss.		-0.90	270.09
1,048.0	1,048.0	Kirtland Shale		-0.90	270.09
1,353.0	1,353.0	Fruitland Coal		-0.90	270.09
1,638.0	1,638.0	Pictured Cliffs Ss.		-0.90	270.09
1,741.0	1,741.0	Lewis Shale		-0.90	270.09
2,401.7	2,399.0	Cliffhouse Ss.		-0.90	270.09
3,233.9	3,167.0	Menefee Fn.		-0.90	270.09
4,261.8	4,104.0	Point Lookout Ss.		-0.90	270.09
4,443.8	4,277.0	Mancos Shale		-0.90	270.09
4,991.9	4,821.0	Mancos Silt		-0.90	270.09
5,272.0	5,079.0	Gallup Fn.		-0.90	270.09

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Project:	San Juan County, NM	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site:	S28-T24N-R9W	North Reference:	True
Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #13		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,100.0	2,100.0	0.0	0.0	KOP @2100'
2,687.6	2,671.2	-19.6	117.2	EOB; Inc=23.5°
4,191.9	4,050.8	-118.6	708.9	Start Drop -4.00
4,779.5	4,622.0	-138.2	826.1	EOD; INC=0
4,879.7	4,722.3	-138.2	826.1	Start Build 9.00
5,889.7	5,358.8	-137.2	179.5	LP @ 5353' TVD; 90.9°
10,645.4	5,284.1	-130.2	-4,575.6	TD at 10645.4

EnCana Oil & Gas (USA) Inc

San Juan County, NM

S28-T24N-R9W

Nageezi A28-2409 01H

Hz

Plan #13

Anticollision Report

16 December, 2014

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Project:	San Juan County, NM	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Reference Site:	S28-T24N-R9W	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site Error:	0.0usft	North Reference:	True
Reference Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #13	Offset TVD Reference:	Offset Datum

Reference	Plan #13		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	12/16/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	10,645.4	Plan #13 (Hz)	MWD	Geolink MWD	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S27-T24N-R9W						
Escrito L27-2409 01H - Hz - FINAL	5,920.2	5,870.9	1,012.6	984.6	36.226	CC
Escrito L27-2409 01H - Hz - FINAL	10,645.4	10,563.0	1,034.4	784.7	4.143	ES, SF
Escrito L27-2409 01H - Hz - Plan #1	10,628.9	10,487.6	1,039.1	790.2	4.174	CC
Escrito L27-2409 01H - Hz - Plan #1	10,645.4	10,488.5	1,039.2	789.8	4.168	ES, SF
Escrito L27-2409 01H - Hz - Plan #2	10,627.7	10,392.5	1,037.8	788.9	4.170	CC
Escrito L27-2409 01H - Hz - Plan #2	10,645.4	10,394.6	1,037.9	788.5	4.162	ES, SF
Escrito L27-2409 01H - Hz - Plan #3	10,627.7	10,510.4	1,037.8	788.0	4.155	CC
Escrito L27-2409 01H - Hz - Plan #3	10,645.4	10,512.5	1,037.9	787.6	4.147	ES, SF
Escrito L27-2409 01H - Hz - Plan #4	5,924.1	5,874.3	1,021.5	993.5	36.374	CC
Escrito L27-2409 01H - Hz - Plan #4	10,645.4	10,580.1	1,037.3	787.2	4.147	ES, SF
Escrito L27-2409 01H - Hz - Plan #5 Target Change DC 8	5,920.2	5,870.9	1,012.6	984.6	36.226	CC
Escrito L27-2409 01H - Hz - Plan #5 Target Change DC 8	10,645.4	10,581.1	1,037.1	786.9	4.146	ES, SF
S28-T24N-R9W						
Nageezi A28-2409 01H - Pilot Hole - Pilot Hole	2,100.0	2,099.0	0.0	-7.3	0.000	Level 1, CC, ES, SF
Nageezi A28-2409 02H - Hz - Plan #9	2,000.0	2,000.0	30.1	23.1	4.340	CC, ES
Nageezi A28-2409 02H - Hz - Plan #9	10,645.4	10,493.4	499.4	259.8	2.084	SF

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Project:	San Juan County, NM	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Reference Site:	S28-T24N-R9W	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site Error:	0.0usft	North Reference:	True
Reference Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #13	Offset TVD Reference:	Offset Datum

Offset Design S27-T24N-R9W - Escrito L27-2409 01H - Hz - FINAL												Offset Site Error:	0.0 usft
Survey Program: 110-Geolink MWD												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance		Total		Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor	
0.0	0.0	58.8	58.8	0.0	0.1	156.58	-1.655.3	717.2	1,804.0				
100.0	100.0	159.2	159.2	0.1	0.3	156.61	-1.656.0	716.3	1,804.3	1,803.9	0.40	4,530.525	
200.0	200.0	260.0	260.0	0.3	0.4	156.63	-1.656.3	715.8	1,804.4	1,803.6	0.75	2,409.906	
300.0	300.0	366.5	366.5	0.5	0.6	156.64	-1.656.4	715.5	1,804.4	1,803.3	1.11	1,626.747	
400.0	400.0	464.9	464.9	0.7	0.8	156.63	-1.656.2	715.5	1,804.1	1,802.7	1.46	1,239.528	
500.0	500.0	566.0	566.0	0.8	1.0	156.63	-1.655.9	715.6	1,803.9	1,802.1	1.81	998.581	
560.8	560.8	621.8	621.8	1.0	1.1	156.62	-1.655.8	715.7	1,803.8	1,801.8	2.01	897.459	
600.0	600.0	661.5	661.5	1.0	1.1	156.62	-1.655.8	715.7	1,803.8	1,801.7	2.15	839.923	
700.0	700.0	766.5	766.5	1.2	1.3	156.61	-1.655.5	716.1	1,803.7	1,801.2	2.51	719.928	
800.0	800.0	865.8	865.7	1.4	1.5	156.60	-1.655.1	716.3	1,803.4	1,800.6	2.85	632.060	
900.0	900.0	963.8	963.8	1.5	1.7	156.60	-1.654.9	716.3	1,803.3	1,800.1	3.20	563.718	
1,000.0	1,000.0	1,067.8	1,067.8	1.7	1.8	156.59	-1.654.7	716.3	1,803.1	1,799.5	3.55	507.204	
1,100.0	1,100.0	1,162.1	1,162.1	1.9	2.0	156.59	-1.654.6	716.2	1,802.9	1,799.0	3.89	462.984	
1,102.0	1,102.0	1,164.0	1,164.0	1.9	2.0	156.59	-1.654.6	716.2	1,802.9	1,799.0	3.90	462.192	
1,200.0	1,200.0	1,261.9	1,261.9	2.1	2.2	156.59	-1.654.6	716.3	1,802.9	1,798.7	4.24	424.938	
1,300.0	1,300.0	1,359.4	1,359.4	2.2	2.3	156.59	-1.654.6	716.3	1,803.0	1,798.4	4.59	393.025	
1,400.0	1,400.0	1,446.6	1,446.6	2.4	2.5	156.60	-1.655.1	716.3	1,803.5	1,798.6	4.91	367.007	
1,500.0	1,500.0	1,544.3	1,544.2	2.6	2.7	156.61	-1.656.1	716.4	1,804.5	1,799.2	5.26	343.118	
1,600.0	1,600.0	1,640.5	1,640.4	2.8	2.8	156.61	-1.657.0	716.8	1,805.5	1,799.9	5.60	322.314	
1,700.0	1,700.0	1,731.7	1,731.7	2.9	3.0	156.60	-1.658.1	717.6	1,807.0	1,801.1	5.94	304.423	
1,800.0	1,800.0	1,853.4	1,853.3	3.1	3.2	156.60	-1.659.3	718.1	1,808.0	1,801.7	6.32	285.944	
1,900.0	1,900.0	1,957.6	1,957.6	3.3	3.4	156.61	-1.659.8	717.9	1,808.4	1,801.7	6.68	270.744	
2,000.0	2,000.0	2,075.3	2,075.3	3.5	3.6	156.59	-1.659.3	718.3	1,808.1	1,801.0	7.06	256.133	
2,100.0	2,100.0	2,174.3	2,174.3	3.6	3.8	156.57	-1.658.3	718.7	1,807.4	1,800.0	7.41	244.031	
2,200.0	2,199.9	2,275.3	2,275.3	3.8	3.9	57.23	-1.657.4	719.0	1,804.8	1,797.0	7.75	232.733	
2,300.0	2,299.4	2,372.5	2,372.5	4.0	4.1	57.70	-1.656.6	719.2	1,798.5	1,790.4	8.10	222.066	
2,400.0	2,397.8	2,473.4	2,473.3	4.2	4.3	58.51	-1.655.9	719.2	1,788.5	1,780.1	8.47	211.229	
2,500.0	2,494.8	2,566.0	2,565.9	4.5	4.5	59.59	-1.655.2	719.2	1,775.1	1,766.2	8.86	200.268	
2,600.0	2,589.9	2,659.1	2,659.0	4.9	4.6	60.97	-1.654.6	719.5	1,758.7	1,749.4	9.33	188.428	
2,687.6	2,671.2	2,742.9	2,742.8	5.3	4.8	62.47	-1.654.1	719.7	1,742.0	1,732.2	9.83	177.130	
2,700.0	2,682.6	2,754.9	2,754.8	5.4	4.8	62.61	-1.654.0	719.8	1,739.5	1,729.6	9.91	175.472	
2,800.0	2,774.3	2,843.4	2,843.4	5.9	4.9	63.66	-1.653.5	720.1	1,719.7	1,709.2	10.56	162.805	
2,900.0	2,866.0	2,931.4	2,931.3	6.5	5.1	64.72	-1.653.0	720.4	1,700.8	1,689.5	11.26	151.017	
3,000.0	2,957.7	3,021.5	3,021.4	7.1	5.2	65.84	-1.652.9	720.5	1,682.7	1,670.7	12.01	140.149	
3,100.0	3,049.4	3,108.9	3,108.8	7.8	5.4	66.95	-1.652.8	720.6	1,665.6	1,652.8	12.78	130.316	
3,200.0	3,141.1	3,201.9	3,201.9	8.4	5.6	68.14	-1.653.0	720.8	1,649.4	1,635.8	13.60	121.310	
3,300.0	3,232.9	3,290.5	3,290.4	9.1	5.7	69.30	-1.653.0	721.2	1,634.0	1,619.5	14.43	113.259	
3,400.0	3,324.6	3,391.8	3,391.7	9.8	5.9	70.62	-1.653.0	722.0	1,619.3	1,604.0	15.31	105.792	
3,500.0	3,416.3	3,490.7	3,490.6	10.5	6.1	71.92	-1.652.1	723.1	1,604.8	1,588.6	16.20	99.067	
3,600.0	3,508.0	3,586.0	3,585.9	11.2	6.2	73.22	-1.651.2	723.3	1,591.0	1,573.9	17.10	93.036	
3,700.0	3,599.7	3,675.4	3,675.3	12.0	6.4	74.48	-1.650.4	723.1	1,578.0	1,560.0	18.00	87.658	
3,800.0	3,691.4	3,764.2	3,764.1	12.7	6.5	75.74	-1.649.8	722.8	1,566.0	1,547.1	18.91	82.805	
3,900.0	3,783.1	3,855.9	3,855.8	13.4	6.7	77.06	-1.649.1	722.6	1,555.0	1,535.2	19.84	78.385	
4,000.0	3,874.8	3,945.9	3,945.8	14.1	6.9	78.38	-1.648.6	721.8	1,545.2	1,524.5	20.77	74.404	
4,100.0	3,966.5	4,035.7	4,035.6	14.9	7.0	79.73	-1.648.2	720.7	1,536.4	1,514.7	21.70	70.794	
4,191.9	4,050.8	4,115.7	4,115.6	15.6	7.2	80.96	-1.647.9	719.4	1,529.4	1,506.8	22.56	67.794	
4,200.0	4,058.2	4,122.3	4,122.2	15.6	7.2	81.03	-1.647.9	719.3	1,528.8	1,506.2	22.63	67.550	
4,300.0	4,151.4	4,209.0	4,208.9	16.2	7.3	81.99	-1.648.0	718.9	1,523.2	1,499.8	23.43	65.019	
4,400.0	4,246.9	4,300.9	4,300.8	16.7	7.4	82.95	-1.648.0	718.9	1,518.2	1,494.9	24.23	62.588	
4,500.0	4,344.3	4,401.0	4,400.9	17.1	7.5	83.91	-1.648.0	718.9	1,513.2	1,489.9	25.03	60.157	
4,600.0	4,443.0	4,502.1	4,502.0	17.4	7.6	84.87	-1.648.0	718.9	1,508.2	1,485.4	25.83	57.726	
4,700.0	4,542.6	4,603.2	4,603.1	17.6	7.7	85.83	-1.648.0	718.9	1,503.2	1,480.4	26.63	55.295	

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

Cathedral Energy Services

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Reference Site: S28-T24N-R9W
Site Error: 0.0usft
Reference Well: Nageezi A28-2409 01H
Well Error: 0.0usft
Reference Wellbore: Hz
Reference Design: Plan #13

Local Co-ordinate Reference: Well Nageezi A28-2409 01H
TVD Reference: KB @ 6878.0usft (Aztec 920)
MD Reference: KB @ 6878.0usft (Aztec 920)
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 S27-T24N-R9W - Escrito L27-2409 01H - Hz - FINAL													Offset Site Error: 0.0 usft
Survey Program: 110-Geolink MWD													Offset Well Error: 0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
4,779.5	4,622.0	5,463.5	5,298.6	17.6	12.9	-164.54	-1,226.7	525.0	1,285.8	1,265.8	19.97	64.383	
4,800.0	4,642.5	5,467.7	5,300.8	17.6	13.0	-164.36	-1,224.7	522.0	1,276.1	1,256.1	20.02	63.731	
4,879.7	4,722.3	5,480.0	5,307.1	17.7	13.1	-163.85	-1,218.9	513.2	1,240.6	1,220.4	20.21	61.390	
4,900.0	4,742.5	5,488.8	5,311.4	17.7	13.2	-74.38	-1,214.9	506.7	1,232.0	1,203.0	29.04	42.426	
4,950.0	4,792.4	5,500.8	5,317.2	17.7	13.4	-75.85	-1,209.5	497.6	1,211.3	1,182.3	29.06	41.681	
5,000.0	4,841.8	5,512.0	5,322.3	17.6	13.5	-77.32	-1,204.7	488.8	1,191.2	1,162.2	28.99	41.086	
5,050.0	4,890.5	5,523.6	5,327.4	17.4	13.6	-78.72	-1,200.0	479.5	1,171.7	1,142.8	28.87	40.588	
5,100.0	4,938.2	5,544.0	5,335.8	17.2	13.9	-79.73	-1,192.2	462.7	1,153.2	1,124.4	28.80	40.043	
5,150.0	4,984.5	5,544.0	5,335.8	16.9	13.9	-81.42	-1,192.2	462.7	1,135.4	1,107.0	28.37	40.019	
5,200.0	5,029.2	5,556.0	5,340.4	16.6	14.0	-82.58	-1,188.1	452.4	1,118.7	1,090.6	28.07	39.852	
5,250.0	5,072.0	5,575.0	5,347.2	16.2	14.3	-83.43	-1,182.2	435.7	1,103.4	1,075.5	27.83	39.653	
5,300.0	5,112.7	5,575.0	5,347.2	15.7	14.3	-84.76	-1,182.2	435.7	1,089.1	1,061.8	27.25	39.959	
5,350.0	5,150.9	5,590.0	5,352.2	15.3	14.5	-85.54	-1,178.2	422.1	1,076.2	1,049.3	26.89	40.022	
5,400.0	5,186.5	5,606.0	5,357.0	14.7	14.7	-86.20	-1,174.4	407.3	1,064.7	1,038.2	26.52	40.155	
5,450.0	5,219.3	5,620.7	5,361.1	14.2	14.9	-86.80	-1,171.4	393.5	1,054.6	1,028.5	26.13	40.357	
5,500.0	5,248.9	5,645.0	5,367.0	13.7	15.2	-87.11	-1,167.0	370.4	1,045.8	1,019.9	25.91	40.368	
5,550.0	5,275.4	5,660.9	5,370.6	13.1	15.4	-87.52	-1,164.5	355.1	1,038.1	1,012.5	25.58	40.577	
5,600.0	5,298.4	5,677.0	5,374.1	12.7	15.7	-87.86	-1,162.3	339.5	1,031.8	1,006.5	25.31	40.766	
5,650.0	5,317.9	5,708.0	5,380.4	12.2	16.1	-87.98	-1,158.7	309.4	1,026.5	1,001.1	25.37	40.459	
5,700.0	5,333.7	5,740.0	5,385.8	11.9	16.6	-88.10	-1,155.5	278.0	1,021.9	996.4	25.56	39.982	
5,750.0	5,345.7	5,771.0	5,389.8	11.6	17.1	-88.22	-1,152.9	247.4	1,018.1	992.2	25.86	39.365	
5,800.0	5,353.9	5,803.0	5,393.1	11.4	17.6	-88.36	-1,150.9	215.6	1,015.2	988.8	26.33	38.554	
5,850.0	5,358.2	5,835.0	5,395.7	11.4	18.1	-88.53	-1,149.8	183.8	1,013.4	986.5	26.95	37.598	
5,889.7	5,358.8	5,849.8	5,396.7	11.4	18.4	-88.64	-1,149.6	168.9	1,012.7	985.4	27.35	37.029	
5,889.7	5,358.8	5,849.9	5,396.7	11.4	18.4	-88.64	-1,149.6	168.9	1,012.7	985.4	27.35	37.029	
5,900.0	5,358.6	5,856.8	5,397.1	11.5	18.5	-88.67	-1,149.6	162.0	1,012.6	985.1	27.53	36.783	
5,920.2	5,358.3	5,870.9	5,397.8	11.6	18.7	-88.72	-1,149.5	147.9	1,012.6	984.6	27.95	36.226 CC	
6,000.0	5,357.1	5,921.6	5,399.6	12.1	19.6	-88.87	-1,150.1	97.2	1,013.6	984.0	29.54	34.316	
6,100.0	5,355.5	5,994.7	5,400.2	13.3	20.9	-88.98	-1,153.1	24.3	1,017.8	985.6	32.20	31.612	
6,200.0	5,353.9	6,087.2	5,400.6	14.8	22.7	-89.09	-1,158.9	-68.1	1,024.1	988.5	35.66	28.721	
6,300.0	5,352.4	6,214.0	5,398.8	16.5	25.3	-89.10	-1,163.7	-194.8	1,027.8	987.6	40.20	25.571	
6,400.0	5,350.8	6,321.8	5,397.7	18.4	27.6	-89.13	-1,167.4	-302.5	1,031.4	986.9	44.54	23.157	
6,500.0	5,349.2	6,424.5	5,396.6	20.4	29.8	-89.17	-1,169.9	-405.2	1,034.0	985.1	48.93	21.132	
6,600.0	5,347.6	6,530.0	5,394.9	22.5	32.2	-89.17	-1,172.1	-510.6	1,036.2	982.7	53.50	19.367	
6,700.0	5,346.1	6,653.9	5,392.7	24.6	35.0	-89.15	-1,174.2	-634.5	1,038.2	979.6	58.60	17.716	
6,800.0	5,344.5	6,757.1	5,388.4	26.8	37.4	-89.00	-1,173.1	-737.6	1,037.4	974.1	63.28	16.393	
6,831.5	5,344.0	6,783.0	5,387.2	27.5	38.0	-88.96	-1,172.9	-763.5	1,037.3	972.7	64.61	16.054	
6,900.0	5,342.9	6,846.0	5,385.0	29.1	39.5	-88.90	-1,173.0	-826.4	1,037.5	969.8	67.67	15.332	
7,000.0	5,341.4	6,936.9	5,385.0	31.4	41.6	-88.97	-1,174.3	-917.3	1,039.0	966.8	72.15	14.401	
7,100.0	5,339.8	7,065.9	5,384.2	33.7	44.7	-89.04	-1,173.7	-1,046.3	1,038.6	961.0	77.58	13.387	
7,190.6	5,338.4	7,142.1	5,382.3	35.8	46.5	-89.00	-1,172.7	-1,122.5	1,037.6	956.0	81.54	12.725	
7,200.0	5,338.2	7,148.7	5,382.2	36.0	46.7	-89.00	-1,172.7	-1,129.1	1,037.6	955.7	81.92	12.666	
7,300.0	5,336.6	7,253.8	5,380.7	38.4	49.2	-89.01	-1,172.7	-1,234.1	1,037.7	950.9	86.82	11.952	
7,340.0	5,336.0	7,291.5	5,380.0	39.3	50.1	-89.01	-1,172.6	-1,271.9	1,037.7	949.0	88.69	11.700	
7,400.0	5,335.1	7,346.8	5,378.9	40.8	51.4	-88.99	-1,172.7	-1,327.1	1,037.8	946.4	91.45	11.348	
7,500.0	5,333.5	7,442.6	5,376.9	43.1	53.7	-88.97	-1,173.2	-1,422.9	1,038.6	942.4	96.16	10.800	
7,600.0	5,331.9	7,555.4	5,374.6	45.5	56.4	-88.94	-1,173.3	-1,535.7	1,038.8	937.5	101.30	10.254	
7,618.0	5,331.7	7,569.8	5,374.3	46.0	56.8	-88.93	-1,173.3	-1,550.1	1,038.8	936.7	102.08	10.176	
7,700.0	5,330.4	7,650.2	5,372.4	47.9	58.7	-88.90	-1,173.5	-1,630.5	1,039.1	933.1	106.01	9.802	
7,800.0	5,328.8	7,732.0	5,370.9	50.3	60.7	-88.89	-1,174.0	-1,712.2	1,039.9	929.5	110.42	9.418	
7,900.0	5,327.2	7,842.1	5,368.7	52.7	63.3	-88.86	-1,175.5	-1,822.3	1,041.5	926.0	115.52	9.016	
8,000.0	5,325.7	7,976.6	5,366.6	55.2	66.6	-88.86	-1,174.5	-1,956.8	1,040.9	919.7	121.23	8.586	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Project:	San Juan County, NM	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Reference Site:	S28-T24N-R9W	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site Error:	0.0usft	North Reference:	True
Reference Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at:	2.00 sigma
Reference Wellbore:	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #13	Offset TVD Reference:	Offset Datum

Offset Design S27-T24N-R9W - Escrito L27-2409 01H - Hz - FINAL														Offset Site Error:	0.0 usft
Survey Program: 110-Geolink MWD														Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance		Total		Separation		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis				
8,100.0	5,324.1	8,069.8	5,365.0	57.6	68.9	-88.85	-1,172.1	-2,049.9	1,038.5	912.6	125.93	8.246			
8,200.0	5,322.5	8,156.7	5,363.7	60.0	71.0	-88.86	-1,171.3	-2,136.8	1,037.7	907.2	130.49	7.952			
8,242.9	5,321.8	8,194.5	5,363.0	61.1	71.9	-88.85	-1,171.1	-2,174.6	1,037.5	905.1	132.46	7.833			
8,300.0	5,320.9	8,239.5	5,362.1	62.4	73.0	-88.84	-1,171.3	-2,219.6	1,037.9	902.9	134.95	7.691			
8,400.0	5,319.4	8,355.4	5,360.1	64.9	75.8	-88.83	-1,171.1	-2,335.5	1,037.9	897.7	140.23	7.401			
8,421.9	5,319.0	8,374.9	5,359.8	65.4	76.3	-88.83	-1,171.1	-2,355.0	1,037.8	896.6	141.24	7.348			
8,500.0	5,317.8	8,446.9	5,358.8	67.3	78.1	-88.84	-1,171.3	-2,427.0	1,038.2	893.3	144.91	7.164			
8,580.2	5,316.5	8,530.6	5,356.9	69.3	80.1	-88.80	-1,170.9	-2,510.7	1,037.9	889.0	148.92	6.970			
8,600.0	5,316.2	8,546.4	5,356.5	69.8	80.5	-88.80	-1,171.0	-2,526.5	1,038.0	888.2	149.79	6.930			
8,700.0	5,314.7	8,640.1	5,354.8	72.2	82.8	-88.79	-1,171.9	-2,620.2	1,039.1	884.6	154.54	6.724			
8,800.0	5,313.1	8,767.1	5,352.8	74.6	85.9	-88.79	-1,171.3	-2,747.1	1,038.8	878.7	160.10	6.488			
8,900.0	5,311.5	8,866.4	5,351.5	77.1	88.3	-88.80	-1,169.6	-2,846.4	1,037.2	872.2	164.99	6.287			
9,000.0	5,309.9	8,956.9	5,350.4	79.5	90.6	-88.81	-1,168.8	-2,936.9	1,036.4	866.7	169.66	6.109			
9,100.0	5,308.4	9,059.1	5,348.7	82.0	93.1	-88.81	-1,167.9	-3,039.0	1,035.7	861.1	174.62	5.931			
9,200.0	5,306.8	9,168.8	5,346.9	84.4	95.7	-88.80	-1,166.7	-3,148.7	1,034.8	855.0	179.78	5.756			
9,300.0	5,305.2	9,255.8	5,346.0	86.9	97.9	-88.82	-1,165.4	-3,235.7	1,033.5	849.1	184.37	5.606			
9,320.6	5,304.9	9,272.2	5,345.9	87.4	98.3	-88.83	-1,165.4	-3,252.1	1,033.4	848.2	185.28	5.578			
9,400.0	5,303.7	9,342.1	5,345.7	89.3	100.0	-88.89	-1,165.8	-3,322.0	1,034.0	845.0	188.95	5.472			
9,500.0	5,302.1	9,439.0	5,345.2	91.8	102.4	-88.94	-1,166.4	-3,418.9	1,034.8	841.0	193.80	5.340			
9,600.0	5,300.5	9,563.3	5,345.5	94.2	105.4	-89.07	-1,167.5	-3,543.2	1,036.0	836.7	199.32	5.198			
9,700.0	5,299.0	9,655.1	5,344.2	96.7	107.7	-89.07	-1,166.6	-3,635.0	1,035.2	831.2	204.04	5.074			
9,800.0	5,297.4	9,767.5	5,342.7	99.2	110.5	-89.09	-1,165.8	-3,747.3	1,034.6	825.4	209.27	4.944			
9,900.0	5,295.8	9,862.9	5,340.7	101.6	112.8	-89.06	-1,164.1	-3,842.7	1,033.0	818.9	214.07	4.825			
10,000.0	5,294.2	9,966.5	5,339.0	104.1	115.3	-89.05	-1,162.8	-3,946.3	1,031.9	812.8	219.09	4.710			
10,100.0	5,292.7	10,056.7	5,338.3	106.5	117.6	-89.09	-1,161.6	-4,036.5	1,030.8	807.0	223.77	4.606			
10,142.3	5,292.0	10,094.1	5,337.8	107.6	118.5	-89.10	-1,161.4	-4,073.9	1,030.7	804.9	225.73	4.566			
10,200.0	5,291.1	10,149.4	5,336.4	109.0	119.8	-89.07	-1,161.5	-4,129.2	1,030.8	802.3	228.51	4.511			
10,300.0	5,289.5	10,242.4	5,334.2	111.5	122.1	-89.03	-1,161.5	-4,222.1	1,031.0	797.7	233.27	4.420			
10,400.0	5,288.0	10,339.8	5,332.8	113.9	124.5	-89.04	-1,162.5	-4,319.6	1,032.2	794.0	238.13	4.334			
10,500.0	5,286.4	10,438.7	5,331.0	116.4	127.0	-89.02	-1,163.7	-4,418.4	1,033.5	790.5	243.03	4.253			
10,600.0	5,284.8	10,553.9	5,329.4	118.8	129.8	-89.03	-1,163.9	-4,533.6	1,033.8	785.5	248.33	4.163			
10,610.6	5,284.6	10,563.0	5,329.3	119.1	130.0	-89.04	-1,163.9	-4,542.7	1,033.8	785.0	248.82	4.155			
10,645.4	5,284.1	10,563.0	5,329.3	120.0	130.0	-89.04	-1,163.9	-4,542.7	1,034.4	784.7	249.68	4.143 ES, SF			

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

Cathedral Energy Services

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Reference Site: S28-T24N-R9W
Site Error: 0.0usft
Reference Well: Nageezi A28-2409 01H
Well Error: 0.0usft
Reference Wellbore: Hz
Reference Design: Plan #13

Local Co-ordinate Reference: Well Nageezi A28-2409 01H
TVD Reference: KB @ 6878.0usft (Aztec 920)
MD Reference: KB @ 6878.0usft (Aztec 920)
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 S27-T24N-R9W - Escrito L27-2409 01H - Hz - Plan #1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD													Offset Well Error: 0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	59.0	59.0	0.0	0.1	156.57	-1,655.2	717.4	1,804.0				
100.0	100.0	159.0	159.0	0.1	0.3	156.57	-1,655.2	717.4	1,804.0	1,803.6	0.40	4,474.730	
200.0	200.0	259.0	259.0	0.3	0.4	156.57	-1,655.2	717.4	1,804.0	1,803.2	0.75	2,398.224	
300.0	300.0	359.0	359.0	0.5	0.6	156.57	-1,655.2	717.4	1,804.0	1,802.9	1.10	1,638.073	
400.0	400.0	459.0	459.0	0.7	0.8	156.57	-1,655.2	717.4	1,804.0	1,802.5	1.45	1,243.825	
500.0	500.0	559.0	559.0	0.8	1.0	156.57	-1,655.2	717.4	1,804.0	1,802.2	1.80	1,002.537	
600.0	600.0	659.0	659.0	1.0	1.1	156.57	-1,655.2	717.4	1,804.0	1,801.8	2.15	839.653	
700.0	700.0	759.0	759.0	1.2	1.3	156.57	-1,655.2	717.4	1,804.0	1,801.5	2.50	722.300	
800.0	800.0	859.0	859.0	1.4	1.5	156.57	-1,655.2	717.4	1,804.0	1,801.1	2.85	633.728	
900.0	900.0	959.0	959.0	1.5	1.7	156.57	-1,655.2	717.4	1,804.0	1,800.8	3.20	564.505	
1,000.0	1,000.0	1,059.0	1,059.0	1.7	1.8	156.57	-1,655.2	717.4	1,804.0	1,800.4	3.54	508.916	
1,100.0	1,100.0	1,159.0	1,159.0	1.9	2.0	156.57	-1,655.2	717.4	1,804.0	1,800.1	3.89	463.294	
1,200.0	1,200.0	1,259.0	1,259.0	2.1	2.2	156.57	-1,655.2	717.4	1,804.0	1,799.7	4.24	425.178	
1,300.0	1,300.0	1,359.0	1,359.0	2.2	2.3	156.57	-1,655.2	717.4	1,804.0	1,799.4	4.59	392.857	
1,400.0	1,400.0	1,459.0	1,459.0	2.4	2.5	156.57	-1,655.2	717.4	1,804.0	1,799.0	4.94	365.103	
1,500.0	1,500.0	1,559.0	1,559.0	2.6	2.7	156.57	-1,655.2	717.4	1,804.0	1,798.7	5.29	341.012	
1,600.0	1,600.0	1,659.0	1,659.0	2.8	2.9	156.57	-1,655.2	717.4	1,804.0	1,798.3	5.64	319.903	
1,700.0	1,700.0	1,759.0	1,759.0	2.9	3.0	156.57	-1,655.2	717.4	1,804.0	1,798.0	5.99	301.255	
1,800.0	1,800.0	1,859.0	1,859.0	3.1	3.2	156.57	-1,655.2	717.4	1,804.0	1,797.6	6.34	284.661	
1,900.0	1,900.0	1,959.0	1,959.0	3.3	3.4	156.57	-1,655.2	717.4	1,804.0	1,797.3	6.69	269.800	
2,000.0	2,000.0	2,059.0	2,059.0	3.5	3.6	156.57	-1,655.2	717.4	1,804.0	1,796.9	7.04	256.414	
2,100.0	2,100.0	2,159.0	2,159.0	3.6	3.7	156.57	-1,655.2	717.4	1,804.0	1,796.6	7.38	244.293	
2,200.0	2,199.9	2,258.9	2,258.9	3.8	3.9	57.23	-1,655.2	717.4	1,802.1	1,794.3	7.73	233.095	
2,300.0	2,299.4	2,358.3	2,358.3	4.0	4.1	57.70	-1,655.2	717.4	1,796.4	1,788.4	8.08	222.359	
2,400.0	2,397.8	2,456.8	2,456.8	4.2	4.3	58.48	-1,655.2	717.4	1,787.2	1,778.7	8.44	211.664	
2,500.0	2,494.8	2,553.8	2,553.8	4.5	4.4	59.57	-1,655.2	717.4	1,774.4	1,765.6	8.85	200.561	
2,600.0	2,589.9	2,648.9	2,648.9	4.9	4.6	60.97	-1,655.2	717.4	1,758.5	1,749.2	9.32	188.661	
2,687.6	2,671.2	2,730.2	2,730.2	5.3	4.7	62.44	-1,655.2	717.4	1,742.2	1,732.4	9.82	177.462	
2,700.0	2,682.6	2,741.6	2,741.6	5.4	4.8	62.57	-1,655.2	717.4	1,739.8	1,729.9	9.90	175.825	
2,800.0	2,774.3	2,833.3	2,833.3	5.9	4.9	63.67	-1,655.2	717.4	1,720.5	1,709.9	10.55	163.062	
2,900.0	2,866.0	2,925.0	2,925.0	6.5	5.1	64.80	-1,655.2	717.4	1,701.9	1,690.7	11.26	151.176	
3,000.0	2,957.7	3,016.7	3,016.7	7.1	5.2	65.94	-1,655.2	717.4	1,684.1	1,672.1	12.01	140.264	
3,100.0	3,049.4	3,108.4	3,108.4	7.8	5.4	67.10	-1,655.2	717.4	1,667.0	1,654.2	12.79	130.335	
3,200.0	3,141.1	3,200.1	3,200.1	8.4	5.6	68.29	-1,655.2	717.4	1,650.7	1,637.1	13.60	121.347	
3,300.0	3,232.9	3,291.8	3,291.8	9.1	5.7	69.49	-1,655.2	717.4	1,635.3	1,620.8	14.44	113.232	
3,400.0	3,324.6	3,383.5	3,383.5	9.8	5.9	70.72	-1,655.2	717.4	1,620.6	1,605.3	15.30	105.914	
3,500.0	3,416.3	3,475.2	3,475.2	10.5	6.0	71.96	-1,655.2	717.4	1,606.8	1,590.7	16.18	99.316	
3,600.0	3,508.0	3,567.0	3,567.0	11.2	6.2	73.22	-1,655.2	717.4	1,593.9	1,576.9	17.07	93.364	
3,700.0	3,599.7	3,658.7	3,658.7	12.0	6.4	74.50	-1,655.2	717.4	1,581.9	1,564.0	17.98	87.990	
3,800.0	3,691.4	3,750.4	3,750.4	12.7	6.5	75.79	-1,655.2	717.4	1,570.8	1,552.0	18.90	83.133	
3,900.0	3,783.1	3,842.1	3,842.1	13.4	6.7	77.10	-1,655.2	717.4	1,560.7	1,540.9	19.82	78.739	
4,000.0	3,874.8	3,933.8	3,933.8	14.1	6.8	78.42	-1,655.2	717.4	1,551.5	1,530.8	20.75	74.758	
4,100.0	3,966.5	4,025.5	4,025.5	14.9	7.0	79.75	-1,655.2	717.4	1,543.3	1,521.6	21.69	71.149	
4,191.9	4,050.8	4,109.8	4,109.8	15.6	7.2	80.99	-1,655.2	717.4	1,536.6	1,514.1	22.56	68.128	
4,200.0	4,058.2	4,117.2	4,117.2	15.6	7.2	81.07	-1,655.2	717.4	1,536.1	1,513.5	22.63	67.878	
4,300.0	4,151.4	4,210.4	4,210.4	16.2	7.3	82.10	-1,655.2	717.4	1,530.4	1,507.0	23.44	65.296	
4,400.0	4,246.9	4,305.9	4,305.9	16.7	7.5	82.99	-1,655.2	717.4	1,526.4	1,502.3	24.13	63.264	
4,500.0	4,344.3	4,404.0	4,404.0	17.1	7.7	83.88	-1,280.2	399.4	1,486.4	1,456.6	29.84	49.815	
4,600.0	4,443.0	4,502.7	4,502.7	17.4	7.9	84.77	-1,280.2	399.4	1,434.1	1,404.0	30.16	47.553	
4,700.0	4,542.6	4,602.4	4,602.4	17.6	8.1	85.66	-1,268.5	381.2	1,385.1	1,354.4	30.70	45.113	
4,779.5	4,622.0	4,681.9	4,681.9	17.6	8.4	86.55	-1,263.7	373.3	1,349.0	1,329.4	19.56	68.962	
4,800.0	4,642.5	4,702.4	4,702.4	17.6	8.4	86.55	-1,262.5	371.2	1,340.1	1,320.5	19.60	68.358	

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

Cathedral Energy Services

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Reference Site: S28-T24N-R9W
Site Error: 0.0usft
Reference Well: Nageezi A28-2409 01H
Well Error: 0.0usft
Reference Wellbore: Hz
Reference Design: Plan #13

Local Co-ordinate Reference: Well Nageezi A28-2409 01H
TVD Reference: KB @ 6878.0usft (Aztec 920)
MD Reference: KB @ 6878.0usft (Aztec 920)
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 S27-T24N-R9W - Escrito L27-2409 01H - Hz - Plan #1														Offset Site Error: 0.0 usft
Survey Program: 0-MWD														Offset Well Error: 0.0 usft
Reference	Offset	Semi Major Axis		Distance		Total		Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor		
4,879.7	4,722.3	5,550.0	5,276.0	17.7	14.7	-157.30	-1,255.4	358.9	1,308.1	1,288.4	19.79	66.106		
4,900.0	4,742.5	5,550.0	5,276.0	17.7	14.7	-68.08	-1,255.4	358.9	1,300.5	1,269.2	31.29	41.562		
4,950.0	4,792.4	5,550.0	5,276.0	17.7	14.7	-69.76	-1,255.4	358.9	1,281.9	1,250.7	31.21	41.072		
5,000.0	4,841.8	5,550.0	5,276.0	17.6	14.7	-71.42	-1,255.4	358.9	1,263.7	1,232.6	31.04	40.712		
5,050.0	4,890.5	5,571.8	5,282.1	17.4	15.0	-72.14	-1,245.5	340.4	1,245.5	1,214.3	31.18	39.949		
5,100.0	4,938.2	5,581.9	5,284.8	17.2	15.2	-73.33	-1,241.1	331.7	1,228.0	1,196.9	31.02	39.581		
5,150.0	4,984.5	5,600.0	5,289.4	16.9	15.5	-74.18	-1,233.6	315.9	1,211.0	1,180.0	30.94	39.141		
5,200.0	5,029.2	5,600.0	5,289.4	16.6	15.5	-75.70	-1,233.6	315.9	1,194.5	1,164.0	30.46	39.216		
5,250.0	5,072.0	5,617.4	5,293.6	16.2	15.8	-76.52	-1,226.8	300.4	1,178.6	1,148.3	30.25	38.963		
5,300.0	5,112.7	5,630.9	5,296.7	15.7	16.0	-77.46	-1,221.8	288.3	1,163.4	1,133.5	29.91	38.899		
5,350.0	5,150.9	5,650.0	5,300.8	15.3	16.4	-78.18	-1,215.1	270.9	1,148.9	1,119.3	29.62	38.784		
5,400.0	5,186.5	5,650.0	5,300.8	14.7	16.4	-79.44	-1,215.1	270.9	1,135.3	1,106.3	28.96	39.200		
5,450.0	5,219.3	5,675.7	5,305.7	14.2	16.8	-79.92	-1,206.9	247.1	1,122.2	1,093.4	28.78	38.998		
5,500.0	5,248.9	5,700.0	5,309.9	13.7	17.3	-80.44	-1,199.9	224.1	1,110.1	1,081.6	28.56	38.875		
5,550.0	5,275.4	5,700.0	5,309.9	13.1	17.3	-81.47	-1,199.9	224.1	1,098.9	1,071.0	27.91	39.375		
5,600.0	5,298.4	5,725.9	5,313.8	12.7	17.7	-81.93	-1,193.4	199.3	1,088.4	1,060.6	27.81	39.137		
5,650.0	5,317.9	5,750.0	5,316.8	12.2	18.2	-82.43	-1,188.2	176.0	1,079.0	1,051.3	27.74	38.899		
5,700.0	5,333.7	5,750.0	5,316.8	11.9	18.2	-83.19	-1,188.2	176.0	1,070.6	1,043.3	27.31	39.208		
5,750.0	5,345.7	5,780.2	5,319.9	11.6	18.7	-83.59	-1,182.9	146.5	1,062.9	1,035.3	27.59	38.527		
5,800.0	5,353.9	5,800.0	5,321.4	11.4	19.1	-84.07	-1,180.1	126.9	1,056.4	1,028.6	27.80	38.002		
5,850.0	5,358.2	5,817.7	5,322.5	11.4	19.4	-84.53	-1,178.1	109.3	1,050.9	1,022.8	28.12	37.365		
5,889.7	5,358.8	5,832.8	5,323.2	11.4	19.7	-84.87	-1,176.8	94.4	1,047.3	1,018.8	28.51	36.738		
5,889.7	5,358.8	5,832.8	5,323.2	11.4	19.7	-84.87	-1,176.8	94.4	1,047.3	1,018.8	28.51	36.738		
5,900.0	5,358.6	5,850.0	5,323.7	11.5	20.0	-84.91	-1,175.7	77.2	1,046.7	1,017.8	28.90	36.214		
6,000.0	5,357.1	5,884.8	5,323.9	12.1	20.7	-84.95	-1,174.7	42.4	1,042.1	1,011.8	30.31	34.375		
6,047.2	5,356.3	5,906.0	5,323.7	12.7	21.1	-84.95	-1,174.7	21.2	1,041.7	1,010.4	31.29	33.291		
6,100.0	5,355.5	5,958.7	5,323.1	13.3	22.1	-84.97	-1,174.6	-31.5	1,041.7	1,008.7	33.02	31.546		
6,200.0	5,353.9	6,058.7	5,322.1	14.8	24.1	-85.00	-1,174.4	-131.5	1,041.6	1,004.9	36.67	28.406		
6,300.0	5,352.4	6,158.7	5,321.0	16.5	26.2	-85.03	-1,174.3	-231.5	1,041.6	1,000.9	40.61	25.646		
6,400.0	5,350.8	6,258.7	5,320.0	18.4	28.3	-85.05	-1,174.1	-331.5	1,041.5	996.7	44.77	23.261		
6,500.0	5,349.2	6,358.7	5,318.9	20.4	30.5	-85.08	-1,173.9	-431.5	1,041.4	992.3	49.09	21.214		
6,600.0	5,347.6	6,458.7	5,317.9	22.5	32.7	-85.11	-1,173.8	-531.5	1,041.4	987.8	53.53	19.455		
6,700.0	5,346.1	6,558.7	5,316.8	24.6	35.0	-85.14	-1,173.6	-631.5	1,041.3	983.3	58.05	17.938		
6,800.0	5,344.5	6,658.7	5,315.8	26.8	37.3	-85.17	-1,173.4	-731.5	1,041.2	978.6	62.64	16.623		
6,900.0	5,342.9	6,758.7	5,314.7	29.1	39.6	-85.20	-1,173.3	-831.5	1,041.2	973.9	67.28	15.475		
7,000.0	5,341.4	6,858.7	5,313.7	31.4	42.0	-85.23	-1,173.1	-931.5	1,041.1	969.2	71.97	14.467		
7,100.0	5,339.8	6,958.7	5,312.6	33.7	44.3	-85.25	-1,172.9	-1,031.5	1,041.1	964.4	76.68	13.576		
7,200.0	5,338.2	7,058.7	5,311.6	36.0	46.7	-85.28	-1,172.8	-1,131.4	1,041.0	959.6	81.43	12.784		
7,300.0	5,336.6	7,158.7	5,310.6	38.4	49.1	-85.31	-1,172.6	-1,231.4	1,040.9	954.7	86.20	12.076		
7,400.0	5,335.1	7,258.7	5,309.5	40.8	51.4	-85.34	-1,172.4	-1,331.4	1,040.9	949.9	90.99	11.440		
7,500.0	5,333.5	7,358.7	5,308.5	43.1	53.8	-85.37	-1,172.3	-1,431.4	1,040.8	945.0	95.79	10.866		
7,600.0	5,331.9	7,458.7	5,307.4	45.5	56.2	-85.40	-1,172.1	-1,531.4	1,040.8	940.2	100.61	10.345		
7,700.0	5,330.4	7,558.7	5,306.4	47.9	58.6	-85.43	-1,171.9	-1,631.4	1,040.7	935.3	105.44	9.870		
7,800.0	5,328.8	7,658.7	5,305.3	50.3	61.1	-85.45	-1,171.8	-1,731.4	1,040.6	930.4	110.28	9.437		
7,900.0	5,327.2	7,758.7	5,304.3	52.7	63.5	-85.48	-1,171.6	-1,831.4	1,040.6	925.5	115.12	9.039		
8,000.0	5,325.7	7,858.7	5,303.2	55.2	65.9	-85.51	-1,171.4	-1,931.4	1,040.5	920.5	119.98	8.673		
8,100.0	5,324.1	7,958.7	5,302.2	57.6	68.3	-85.54	-1,171.3	-2,031.4	1,040.5	915.6	124.84	8.334		
8,200.0	5,322.5	8,058.7	5,301.1	60.0	70.7	-85.57	-1,171.1	-2,131.4	1,040.4	910.7	129.71	8.021		
8,300.0	5,320.9	8,158.7	5,300.1	62.4	73.2	-85.60	-1,170.9	-2,231.4	1,040.4	905.8	134.59	7.730		
8,400.0	5,319.4	8,258.7	5,299.0	64.9	75.6	-85.63	-1,170.8	-2,331.4	1,040.3	900.8	139.47	7.459		
8,500.0	5,317.8	8,358.7	5,298.0	67.3	78.1	-85.66	-1,170.6	-2,431.4	1,040.2	895.9	144.35	7.206		
8,600.0	5,316.2	8,458.7	5,296.9	69.8	80.5	-85.68	-1,170.4	-2,531.3	1,040.2	890.9	149.24	6.970		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Project:	San Juan County, NM	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Reference Site:	S28-T24N-R9W	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site Error:	0.0usft	North Reference:	True
Reference Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #13	Offset TVD Reference:	Offset Datum

Offset Design S27-T24N-R9W - Escrito L27-2409 01H - HZ - Plan #1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD													Offset Well Error: 0.0 usft
Reference	Offset	Semi Major Axis		Distance		Total		Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor	
8,700.0	5,314.7	8,558.7	5,295.9	72.2	82.9	-85.71	-1,170.3	-2,631.3	1,040.1	886.0	154.13	6.748	
8,800.0	5,313.1	8,658.7	5,294.8	74.6	85.4	-85.74	-1,170.1	-2,731.3	1,040.1	881.0	159.03	6.540	
8,900.0	5,311.5	8,758.7	5,293.8	77.1	87.8	-85.77	-1,169.9	-2,831.3	1,040.0	876.1	163.93	6.344	
9,000.0	5,309.9	8,858.7	5,292.8	79.5	90.3	-85.80	-1,169.8	-2,931.3	1,040.0	871.1	168.83	6.160	
9,100.0	5,308.4	8,958.7	5,291.7	82.0	92.7	-85.83	-1,169.6	-3,031.3	1,039.9	866.2	173.73	5.986	
9,200.0	5,306.8	9,058.7	5,290.7	84.4	95.2	-85.86	-1,169.4	-3,131.3	1,039.8	861.2	178.64	5.821	
9,300.0	5,305.2	9,158.7	5,289.6	86.9	97.6	-85.89	-1,169.3	-3,231.3	1,039.8	856.2	183.54	5.665	
9,400.0	5,303.7	9,258.7	5,288.6	89.3	100.1	-85.91	-1,169.1	-3,331.3	1,039.7	851.3	188.46	5.517	
9,500.0	5,302.1	9,358.7	5,287.5	91.8	102.5	-85.94	-1,168.9	-3,431.3	1,039.7	846.3	193.37	5.377	
9,600.0	5,300.5	9,458.7	5,286.5	94.2	105.0	-85.97	-1,168.8	-3,531.3	1,039.6	841.3	198.28	5.243	
9,700.0	5,299.0	9,558.7	5,285.4	96.7	107.4	-86.00	-1,168.6	-3,631.3	1,039.6	836.4	203.20	5.116	
9,800.0	5,297.4	9,658.7	5,284.4	99.2	109.9	-86.03	-1,168.4	-3,731.3	1,039.5	831.4	208.12	4.995	
9,900.0	5,295.8	9,758.7	5,283.3	101.6	112.3	-86.06	-1,168.3	-3,831.3	1,039.5	826.4	213.04	4.879	
10,000.0	5,294.2	9,858.7	5,282.3	104.1	114.8	-86.09	-1,168.1	-3,931.2	1,039.4	821.5	217.96	4.769	
10,100.0	5,292.7	9,958.7	5,281.2	106.5	117.3	-86.12	-1,167.9	-4,031.2	1,039.4	816.5	222.88	4.663	
10,200.0	5,291.1	10,058.7	5,280.2	109.0	119.7	-86.14	-1,167.8	-4,131.2	1,039.3	811.5	227.80	4.562	
10,300.0	5,289.5	10,158.7	5,279.1	111.5	122.2	-86.17	-1,167.6	-4,231.2	1,039.3	806.5	232.73	4.466	
10,400.0	5,288.0	10,258.7	5,278.1	113.9	124.6	-86.20	-1,167.4	-4,331.2	1,039.2	801.6	237.65	4.373	
10,500.0	5,286.4	10,358.7	5,277.0	116.4	127.1	-86.23	-1,167.3	-4,431.2	1,039.2	796.6	242.58	4.284	
10,600.0	5,284.8	10,458.7	5,276.0	118.8	129.6	-86.26	-1,167.1	-4,531.2	1,039.1	791.6	247.50	4.198	
10,628.9	5,284.4	10,487.6	5,275.7	119.6	130.3	-86.27	-1,167.1	-4,560.1	1,039.1	790.2	248.93	4.174 CC	
10,645.4	5,284.1	10,488.5	5,275.7	120.0	130.3	-86.27	-1,167.1	-4,561.0	1,039.2	789.8	249.36	4.168 ES, SF	

Cathedral Energy Services

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Reference Site: S28-T24N-R9W
Site Error: 0.0usft
Reference Well: Nageezi A28-2409 01H
Well Error: 0.0usft
Reference Wellbore: Hz
Reference Design: Plan #13

Local Co-ordinate Reference: Well Nageezi A28-2409 01H
TVD Reference: KB @ 6878.0usft (Aztec 920)
MD Reference: KB @ 6878.0usft (Aztec 920)
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 S27-T24N-R9W - Escrito L27-2409 01H - Hz - Plan #2													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	62.0	62.0	0.0	0.1	156.57		-1,655.2	717.4	1,804.0				
100.0	100.0	162.0	162.0	0.1	0.3	156.57		-1,655.2	717.4	1,804.0	1,803.6	0.40	4,474.730	
200.0	200.0	262.0	262.0	0.3	0.4	156.57		-1,655.2	717.4	1,804.0	1,803.2	0.75	2,398.224	
300.0	300.0	362.0	362.0	0.5	0.6	156.57		-1,655.2	717.4	1,804.0	1,802.9	1.10	1,638.073	
400.0	400.0	462.0	462.0	0.7	0.8	156.57		-1,655.2	717.4	1,804.0	1,802.5	1.45	1,243.825	
500.0	500.0	562.0	562.0	0.8	1.0	156.57		-1,655.2	717.4	1,804.0	1,802.2	1.80	1,002.537	
600.0	600.0	662.0	662.0	1.0	1.1	156.57		-1,655.2	717.4	1,804.0	1,801.8	2.15	839.653	
700.0	700.0	762.0	762.0	1.2	1.3	156.57		-1,655.2	717.4	1,804.0	1,801.5	2.50	722.300	
800.0	800.0	862.0	862.0	1.4	1.5	156.57		-1,655.2	717.4	1,804.0	1,801.1	2.85	633.728	
900.0	900.0	962.0	962.0	1.5	1.7	156.57		-1,655.2	717.4	1,804.0	1,800.8	3.20	564.505	
1,000.0	1,000.0	1,062.0	1,062.0	1.7	1.8	156.57		-1,655.2	717.4	1,804.0	1,800.4	3.54	508.916	
1,100.0	1,100.0	1,162.0	1,162.0	1.9	2.0	156.57		-1,655.2	717.4	1,804.0	1,800.1	3.89	463.294	
1,200.0	1,200.0	1,262.0	1,262.0	2.1	2.2	156.57		-1,655.2	717.4	1,804.0	1,799.7	4.24	425.178	
1,300.0	1,300.0	1,362.0	1,362.0	2.2	2.3	156.57		-1,655.2	717.4	1,804.0	1,799.4	4.59	392.857	
1,400.0	1,400.0	1,462.0	1,462.0	2.4	2.5	156.57		-1,655.2	717.4	1,804.0	1,799.0	4.94	365.103	
1,500.0	1,500.0	1,562.0	1,562.0	2.6	2.7	156.57		-1,655.2	717.4	1,804.0	1,798.7	5.29	341.012	
1,600.0	1,600.0	1,662.0	1,662.0	2.8	2.9	156.57		-1,655.2	717.4	1,804.0	1,798.3	5.64	319.903	
1,700.0	1,700.0	1,762.0	1,762.0	2.9	3.0	156.57		-1,655.2	717.4	1,804.0	1,798.0	5.99	301.255	
1,800.0	1,800.0	1,862.0	1,862.0	3.1	3.2	156.57		-1,655.2	717.4	1,804.0	1,797.6	6.34	284.661	
1,900.0	1,900.0	1,962.0	1,962.0	3.3	3.4	156.57		-1,655.2	717.4	1,804.0	1,797.3	6.69	269.800	
2,000.0	2,000.0	2,062.0	2,062.0	3.5	3.6	156.57		-1,655.2	717.4	1,804.0	1,796.9	7.04	256.414	
2,100.0	2,100.0	2,162.0	2,162.0	3.6	3.7	156.57		-1,655.2	717.4	1,804.0	1,796.6	7.38	244.293	
2,200.0	2,199.9	2,261.9	2,261.9	3.8	3.9	57.23		-1,655.2	717.4	1,802.1	1,794.3	7.73	233.095	
2,300.0	2,299.4	2,361.4	2,361.4	4.0	4.1	57.70		-1,655.2	717.4	1,796.4	1,788.4	8.08	222.359	
2,400.0	2,397.8	2,459.8	2,459.8	4.2	4.3	58.48		-1,655.2	717.4	1,787.2	1,778.7	8.44	211.664	
2,500.0	2,494.8	2,556.8	2,556.8	4.5	4.4	59.57		-1,655.2	717.4	1,774.4	1,765.6	8.85	200.561	
2,600.0	2,589.9	2,651.9	2,651.9	4.9	4.6	60.97		-1,655.2	717.4	1,758.5	1,749.2	9.32	188.661	
2,687.6	2,671.2	2,733.2	2,733.2	5.3	4.7	62.44		-1,655.2	717.4	1,742.2	1,732.4	9.82	177.462	
2,700.0	2,682.6	2,744.6	2,744.6	5.4	4.8	62.57		-1,655.2	717.4	1,739.8	1,729.9	9.90	175.825	
2,800.0	2,774.3	2,836.3	2,836.3	5.9	4.9	63.67		-1,655.2	717.4	1,720.5	1,709.9	10.55	163.062	
2,900.0	2,866.0	2,928.0	2,928.0	6.5	5.1	64.80		-1,655.2	717.4	1,701.9	1,690.7	11.26	151.176	
3,000.0	2,957.7	3,019.7	3,019.7	7.1	5.2	65.94		-1,655.2	717.4	1,684.1	1,672.1	12.01	140.264	
3,100.0	3,049.4	3,111.4	3,111.4	7.8	5.4	67.10		-1,655.2	717.4	1,667.0	1,654.2	12.79	130.335	
3,200.0	3,141.1	3,203.1	3,203.1	8.4	5.6	68.29		-1,655.2	717.4	1,650.7	1,637.1	13.60	121.347	
3,300.0	3,232.9	3,294.9	3,294.9	9.1	5.7	69.49		-1,655.2	717.4	1,635.3	1,620.8	14.44	113.232	
3,400.0	3,324.6	3,386.6	3,386.6	9.8	5.9	70.72		-1,655.2	717.4	1,620.6	1,605.3	15.30	105.914	
3,500.0	3,416.3	3,583.4	3,583.3	10.5	6.2	73.43		-1,649.4	715.6	1,604.3	1,587.9	16.42	97.703	
3,600.0	3,508.0	3,790.6	3,789.3	11.2	6.6	76.48		-1,628.9	709.6	1,582.1	1,564.5	17.58	89.990	
3,700.0	3,599.7	3,987.8	3,983.5	12.0	7.0	79.63		-1,595.9	699.9	1,554.5	1,535.8	18.74	82.970	
3,800.0	3,691.4	4,173.9	4,164.0	12.7	7.6	82.89		-1,552.6	687.2	1,522.2	1,502.3	19.89	76.548	
3,900.0	3,783.1	4,304.2	4,288.5	13.4	8.0	85.37		-1,515.7	676.4	1,486.4	1,465.5	20.92	71.039	
4,000.0	3,874.8	4,386.2	4,366.6	14.1	8.3	87.02		-1,491.7	669.4	1,451.3	1,429.4	21.86	66.398	
4,100.0	3,966.5	4,468.3	4,444.7	14.9	8.6	88.73		-1,467.7	662.3	1,417.6	1,394.8	22.80	62.180	
4,191.9	4,050.8	4,543.6	4,516.4	15.6	8.9	90.36		-1,445.6	655.8	1,388.0	1,364.4	23.67	58.645	
4,200.0	4,058.2	4,550.3	4,522.8	15.6	8.9	90.39		-1,443.6	655.2	1,385.5	1,361.8	23.74	58.354	
4,300.0	4,151.4	4,634.2	4,602.7	16.2	9.3	90.85		-1,419.0	648.0	1,354.9	1,330.3	24.55	55.184	
4,400.0	4,246.9	4,721.3	4,685.6	16.7	9.6	91.22		-1,393.5	640.5	1,325.5	1,300.3	25.20	52.483	
4,500.0	4,344.3	4,810.9	4,770.9	17.1	10.0	91.48		-1,367.2	632.8	1,297.0	1,271.2	25.85	50.168	
4,600.0	4,443.0	4,902.8	4,858.4	17.4	10.4	91.56		-1,340.3	624.9	1,269.1	1,242.7	26.34	48.172	
4,700.0	4,542.6	4,979.2	4,931.0	17.6	10.8	91.35		-1,318.0	616.3	1,241.9	1,215.2	26.71	46.494	
4,779.5	4,622.0	5,032.9	4,981.1	17.6	11.1	-169.23		-1,302.5	604.7	1,221.8	1,203.0	18.83	64.883	
4,800.0	4,642.5	5,050.0	4,996.7	17.6	11.2	-168.96		-1,297.6	600.0	1,216.9	1,198.0	18.92	64.305	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Project:	San Juan County, NM	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Reference Site:	S28-T24N-R9W	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site Error:	0.0usft	North Reference:	True
Reference Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #13	Offset TVD Reference:	Offset Datum

Offset Design S27-T24N-R9W - Escrito L27-2409 01H - Hz - Plan #2												Offset Site Error:
Survey Program: 0-MWD												Offset Well Error:
Reference	Offset	Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside	Offset Wellbore Centre	Between Centres	Between Ellipses	Uncertainty	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	Axis	
4,879.7	4,722.3	5,100.0	5,041.8	17.7	11.4	-168.04	-1,283.7	583.4	1,198.9	1,179.7	19.22	62.389
4,900.0	4,742.5	5,109.8	5,050.4	17.7	11.5	-78.31	-1,281.0	579.6	1,194.6	1,167.2	27.42	43.561
4,950.0	4,792.4	5,140.4	5,077.0	17.7	11.7	-78.67	-1,272.7	567.0	1,184.0	1,156.5	27.52	43.018
5,000.0	4,841.8	5,170.7	5,102.8	17.6	11.9	-79.05	-1,264.7	553.0	1,173.6	1,146.0	27.57	42.561
5,050.0	4,890.5	5,200.0	5,126.8	17.4	12.1	-79.47	-1,257.2	538.2	1,163.2	1,135.7	27.55	42.216
5,100.0	4,938.2	5,230.9	5,151.5	17.2	12.3	-79.88	-1,249.6	521.2	1,153.1	1,125.5	27.51	41.914
5,150.0	4,984.5	5,260.8	5,174.4	16.9	12.5	-80.32	-1,242.4	503.4	1,143.1	1,115.7	27.40	41.715
5,200.0	5,029.2	5,290.6	5,196.4	16.6	12.8	-80.79	-1,235.5	484.5	1,133.3	1,106.1	27.25	41.589
5,250.0	5,072.0	5,320.4	5,217.3	16.2	13.1	-81.27	-1,228.9	464.4	1,123.9	1,096.8	27.07	41.521
5,300.0	5,112.7	5,350.0	5,237.2	15.7	13.3	-81.76	-1,222.7	443.3	1,114.7	1,087.8	26.84	41.533
5,350.0	5,150.9	5,379.9	5,256.1	15.3	13.6	-82.26	-1,216.7	421.0	1,105.8	1,079.2	26.61	41.553
5,400.0	5,186.5	5,400.0	5,268.2	14.7	13.8	-82.85	-1,212.9	405.4	1,097.4	1,071.2	26.24	41.824
5,450.0	5,219.3	5,439.5	5,290.4	14.2	14.3	-83.30	-1,205.9	373.5	1,089.2	1,063.1	26.13	41.687
5,500.0	5,248.9	5,469.3	5,305.8	13.7	14.7	-83.83	-1,201.0	348.4	1,081.6	1,055.7	25.92	41.725
5,550.0	5,275.4	5,500.0	5,320.2	13.1	15.1	-84.35	-1,196.3	321.7	1,074.4	1,048.7	25.76	41.709
5,600.0	5,298.4	5,529.3	5,332.7	12.7	15.5	-84.88	-1,192.3	295.5	1,067.8	1,042.1	25.67	41.602
5,650.0	5,317.9	5,550.0	5,340.8	12.2	15.7	-85.40	-1,189.7	276.6	1,061.8	1,036.3	25.50	41.634
5,700.0	5,333.7	5,589.7	5,354.4	11.9	16.3	-85.92	-1,185.3	239.7	1,056.2	1,030.5	25.79	40.959
5,750.0	5,345.7	5,620.0	5,363.1	11.6	16.8	-86.43	-1,182.4	210.7	1,051.4	1,025.4	26.05	40.356
5,800.0	5,353.9	5,650.0	5,370.3	11.4	17.3	-86.93	-1,180.0	181.7	1,047.2	1,020.8	26.46	39.581
5,850.0	5,358.2	5,681.1	5,376.2	11.4	17.8	-87.41	-1,177.9	151.3	1,043.8	1,016.7	27.06	38.573
5,889.7	5,358.8	5,700.0	5,379.0	11.4	18.2	-87.74	-1,177.0	132.6	1,041.6	1,014.1	27.53	37.840
5,889.7	5,358.8	5,700.0	5,379.0	11.4	18.2	-87.74	-1,177.0	132.6	1,041.6	1,014.1	27.53	37.840
5,900.0	5,358.6	5,711.8	5,380.4	11.5	18.4	-87.82	-1,176.4	120.9	1,041.1	1,013.3	27.81	37.433
6,000.0	5,357.1	5,774.3	5,384.3	12.1	19.5	-88.09	-1,174.8	58.6	1,038.4	1,008.6	29.79	34.862
6,045.9	5,356.3	5,810.6	5,383.8	12.7	20.2	-88.10	-1,174.7	22.2	1,038.2	1,007.2	31.07	33.420
6,100.0	5,355.5	5,864.8	5,382.9	13.3	21.2	-88.09	-1,174.6	-31.9	1,038.2	1,005.4	32.84	31.615
6,200.0	5,353.9	5,964.8	5,381.2	14.8	23.3	-88.08	-1,174.4	-131.9	1,038.2	1,001.7	36.49	28.450
6,300.0	5,352.4	6,064.8	5,379.4	16.5	25.4	-88.07	-1,174.3	-231.8	1,038.2	997.8	40.45	25.669
6,400.0	5,350.8	6,164.8	5,377.7	18.4	27.5	-88.06	-1,174.1	-331.8	1,038.2	993.6	44.61	23.270
6,500.0	5,349.2	6,264.8	5,375.9	20.4	29.8	-88.05	-1,173.9	-431.8	1,038.2	989.3	48.94	21.212
6,600.0	5,347.6	6,364.8	5,374.2	22.5	32.0	-88.04	-1,173.8	-531.8	1,038.2	984.8	53.39	19.446
6,700.0	5,346.1	6,464.8	5,372.4	24.6	34.3	-88.03	-1,173.6	-631.8	1,038.2	980.3	57.92	17.924
6,800.0	5,344.5	6,564.8	5,370.7	26.8	36.6	-88.02	-1,173.4	-731.8	1,038.2	975.6	62.52	16.605
6,900.0	5,342.9	6,664.8	5,369.0	29.1	39.0	-88.01	-1,173.3	-831.8	1,038.1	971.0	67.17	15.455
7,000.0	5,341.4	6,764.8	5,367.2	31.4	41.3	-88.00	-1,173.1	-931.7	1,038.1	966.3	71.87	14.445
7,100.0	5,339.8	6,864.8	5,365.5	33.7	43.7	-87.99	-1,172.9	-1,031.7	1,038.1	961.5	76.60	13.553
7,200.0	5,338.2	6,964.8	5,363.7	36.0	46.1	-87.98	-1,172.8	-1,131.7	1,038.1	956.8	81.35	12.761
7,300.0	5,336.6	7,064.8	5,362.0	38.4	48.5	-87.98	-1,172.6	-1,231.7	1,038.1	952.0	86.13	12.053
7,400.0	5,335.1	7,164.8	5,360.2	40.8	50.9	-87.97	-1,172.4	-1,331.7	1,038.1	947.2	90.92	11.417
7,500.0	5,333.5	7,264.8	5,358.5	43.1	53.3	-87.96	-1,172.3	-1,431.7	1,038.1	942.3	95.74	10.843
7,600.0	5,331.9	7,364.8	5,356.7	45.5	55.7	-87.95	-1,172.1	-1,531.6	1,038.1	937.5	100.56	10.323
7,700.0	5,330.4	7,464.8	5,355.0	47.9	58.1	-87.94	-1,171.9	-1,631.6	1,038.1	932.7	105.40	9.849
7,800.0	5,328.8	7,564.8	5,353.3	50.3	60.5	-87.93	-1,171.8	-1,731.6	1,038.1	927.8	110.24	9.416
7,900.0	5,327.2	7,664.8	5,351.5	52.7	62.9	-87.92	-1,171.6	-1,831.6	1,038.0	922.9	115.10	9.019
8,000.0	5,325.7	7,764.8	5,349.8	55.2	65.4	-87.91	-1,171.4	-1,931.6	1,038.0	918.1	119.96	8.653
8,100.0	5,324.1	7,864.8	5,348.0	57.6	67.8	-87.90	-1,171.3	-2,031.6	1,038.0	913.2	124.83	8.315
8,200.0	5,322.5	7,964.8	5,346.3	60.0	70.2	-87.89	-1,171.1	-2,131.6	1,038.0	908.3	129.70	8.003
8,300.0	5,320.9	8,064.8	5,344.5	62.4	72.7	-87.88	-1,170.9	-2,231.5	1,038.0	903.4	134.58	7.713
8,400.0	5,319.4	8,164.8	5,342.8	64.9	75.1	-87.87	-1,170.8	-2,331.5	1,038.0	898.5	139.47	7.442
8,500.0	5,317.8	8,264.8	5,341.0	67.3	77.6	-87.86	-1,170.6	-2,431.5	1,038.0	893.6	144.36	7.190
8,600.0	5,316.2	8,364.8	5,339.3	69.8	80.0	-87.85	-1,170.4	-2,531.5	1,038.0	888.7	149.25	6.955

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Project:	San Juan County, NM	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Reference Site:	S28-T24N-R9W	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site Error:	0.0usft	North Reference:	True
Reference Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #13	Offset TVD Reference:	Offset Datum

Offset Design S27-T24N-R9W - Escrito L27-2409 01H - Hz - Plan #2														Offset Site Error:	0.0 usft
Survey Program: 0-MWD														Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance		Total		Separation		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor			
8,700.0	5,314.7	8,464.8	5,337.6	72.2	82.4	-87.84	-1,170.3	-2,631.5	1,038.0	883.8	154.14	6.734			
8,800.0	5,313.1	8,564.8	5,335.8	74.6	84.9	-87.83	-1,170.1	-2,731.5	1,037.9	878.9	159.04	6.526			
8,900.0	5,311.5	8,664.8	5,334.1	77.1	87.3	-87.82	-1,169.9	-2,831.4	1,037.9	874.0	163.94	6.331			
9,000.0	5,309.9	8,764.8	5,332.3	79.5	89.8	-87.81	-1,169.8	-2,931.4	1,037.9	869.1	168.85	6.147			
9,100.0	5,308.4	8,864.8	5,330.6	82.0	92.2	-87.80	-1,169.6	-3,031.4	1,037.9	864.2	173.75	5.973			
9,200.0	5,306.8	8,964.8	5,328.8	84.4	94.7	-87.79	-1,169.4	-3,131.4	1,037.9	859.2	178.66	5.809			
9,300.0	5,305.2	9,064.8	5,327.1	86.9	97.1	-87.78	-1,169.3	-3,231.4	1,037.9	854.3	183.57	5.654			
9,400.0	5,303.7	9,164.8	5,325.3	89.3	99.6	-87.77	-1,169.1	-3,331.4	1,037.9	849.4	188.48	5.507			
9,500.0	5,302.1	9,264.8	5,323.6	91.8	102.1	-87.76	-1,168.9	-3,431.3	1,037.9	844.5	193.40	5.367			
9,600.0	5,300.5	9,364.8	5,321.9	94.2	104.5	-87.75	-1,168.8	-3,531.3	1,037.9	839.5	198.31	5.234			
9,700.0	5,299.0	9,464.8	5,320.1	96.7	107.0	-87.74	-1,168.6	-3,631.3	1,037.8	834.6	203.23	5.107			
9,800.0	5,297.4	9,564.8	5,318.4	99.2	109.4	-87.74	-1,168.4	-3,731.3	1,037.8	829.7	208.14	4.986			
9,900.0	5,295.8	9,664.8	5,316.6	101.6	111.9	-87.73	-1,168.3	-3,831.3	1,037.8	824.8	213.06	4.871			
10,000.0	5,294.2	9,764.7	5,314.9	104.1	114.4	-87.72	-1,168.1	-3,931.3	1,037.8	819.8	217.98	4.761			
10,100.0	5,292.7	9,864.7	5,313.1	106.5	116.8	-87.71	-1,167.9	-4,031.3	1,037.8	814.9	222.90	4.656			
10,200.0	5,291.1	9,964.7	5,311.4	109.0	119.3	-87.70	-1,167.8	-4,131.2	1,037.8	810.0	227.82	4.555			
10,300.0	5,289.5	10,064.7	5,309.7	111.5	121.7	-87.69	-1,167.6	-4,231.2	1,037.8	805.0	232.74	4.459			
10,400.0	5,288.0	10,164.7	5,307.9	113.9	124.2	-87.68	-1,167.4	-4,331.2	1,037.8	800.1	237.67	4.367			
10,500.0	5,286.4	10,264.7	5,306.2	116.4	126.7	-87.67	-1,167.3	-4,431.2	1,037.8	795.2	242.59	4.278			
10,600.0	5,284.8	10,364.7	5,304.4	118.8	129.1	-87.66	-1,167.1	-4,531.2	1,037.8	790.2	247.51	4.193			
10,627.7	5,284.4	10,392.5	5,303.9	119.5	129.8	-87.66	-1,167.1	-4,558.9	1,037.8	788.9	248.88	4.170 CC			
10,645.4	5,284.1	10,394.6	5,303.9	120.0	129.9	-87.66	-1,167.1	-4,561.0	1,037.9	788.5	249.37	4.162 ES, SF			

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Project:	San Juan County, NM	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Reference Site:	S28-T24N-R9W	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site Error:	0.0usft	North Reference:	True
Reference Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	H2	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #13	Offset TVD Reference:	Offset Datum

Offset Design S27-T24N-R9W - Escrito L27-2409 01H - H2 - Plan #3													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance		Total		Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor		
0.0	0.0	62.0	62.0	0.0	0.1	156.57	-1,655.2	717.4	1,804.0					
100.0	100.0	162.0	162.0	0.1	0.3	156.57	-1,655.2	717.4	1,804.0	1,803.6	0.40	4,474.730		
200.0	200.0	262.0	262.0	0.3	0.4	156.57	-1,655.2	717.4	1,804.0	1,803.2	0.75	2,398.224		
300.0	300.0	362.0	362.0	0.5	0.6	156.57	-1,655.2	717.4	1,804.0	1,802.9	1.10	1,638.073		
400.0	400.0	462.0	462.0	0.7	0.8	156.57	-1,655.2	717.4	1,804.0	1,802.5	1.45	1,243.825		
500.0	500.0	562.0	562.0	0.8	1.0	156.57	-1,655.2	717.4	1,804.0	1,802.2	1.80	1,002.537		
600.0	600.0	662.0	662.0	1.0	1.1	156.57	-1,655.2	717.4	1,804.0	1,801.8	2.15	839.653		
700.0	700.0	762.0	762.0	1.2	1.3	156.57	-1,655.2	717.4	1,804.0	1,801.5	2.50	722.300		
800.0	800.0	862.0	862.0	1.4	1.5	156.57	-1,655.2	717.4	1,804.0	1,801.1	2.85	633.728		
900.0	900.0	962.0	962.0	1.5	1.7	156.57	-1,655.2	717.4	1,804.0	1,800.8	3.20	564.505		
1,000.0	1,000.0	1,062.0	1,062.0	1.7	1.8	156.57	-1,655.2	717.4	1,804.0	1,800.4	3.54	508.916		
1,100.0	1,100.0	1,162.0	1,162.0	1.9	2.0	156.57	-1,655.2	717.4	1,804.0	1,800.1	3.89	463.294		
1,200.0	1,200.0	1,262.0	1,262.0	2.1	2.2	156.57	-1,655.2	717.4	1,804.0	1,799.7	4.24	425.178		
1,300.0	1,300.0	1,362.0	1,362.0	2.2	2.3	156.57	-1,655.2	717.4	1,804.0	1,799.4	4.59	392.857		
1,400.0	1,400.0	1,462.0	1,462.0	2.4	2.5	156.57	-1,655.2	717.4	1,804.0	1,799.0	4.94	365.103		
1,500.0	1,500.0	1,562.0	1,562.0	2.6	2.7	156.57	-1,655.2	717.4	1,804.0	1,798.7	5.29	341.012		
1,600.0	1,600.0	1,662.0	1,662.0	2.8	2.9	156.57	-1,655.2	717.4	1,804.0	1,798.3	5.64	319.903		
1,700.0	1,700.0	1,762.0	1,762.0	2.9	3.0	156.57	-1,655.2	717.4	1,804.0	1,798.0	5.99	301.255		
1,800.0	1,800.0	1,862.0	1,862.0	3.1	3.2	156.57	-1,655.2	717.4	1,804.0	1,797.6	6.34	284.661		
1,900.0	1,900.0	1,962.0	1,962.0	3.3	3.4	156.57	-1,655.2	717.4	1,804.0	1,797.3	6.69	269.800		
2,000.0	2,000.0	2,062.0	2,062.0	3.5	3.6	156.57	-1,655.2	717.4	1,804.0	1,796.9	7.04	256.414		
2,100.0	2,100.0	2,162.0	2,162.0	3.6	3.7	156.57	-1,655.2	717.4	1,804.0	1,796.6	7.38	244.293		
2,200.0	2,199.9	2,261.9	2,261.9	3.8	3.9	57.23	-1,655.2	717.4	1,802.1	1,794.3	7.73	233.095		
2,300.0	2,299.4	2,361.4	2,361.4	4.0	4.1	57.70	-1,655.2	717.4	1,796.4	1,788.4	8.08	222.359		
2,400.0	2,397.8	2,459.8	2,459.8	4.2	4.3	58.48	-1,655.2	717.4	1,787.2	1,778.7	8.44	211.664		
2,500.0	2,494.8	2,556.8	2,556.8	4.5	4.4	59.57	-1,655.2	717.4	1,774.4	1,765.6	8.85	200.561		
2,600.0	2,589.9	2,651.9	2,651.9	4.9	4.6	60.97	-1,655.2	717.4	1,758.5	1,749.2	9.32	188.661		
2,687.6	2,671.2	2,733.2	2,733.2	5.3	4.7	62.44	-1,655.2	717.4	1,742.2	1,732.4	9.82	177.462		
2,700.0	2,682.6	2,744.6	2,744.6	5.4	4.8	62.57	-1,655.2	717.4	1,739.8	1,729.9	9.90	175.825		
2,800.0	2,774.3	2,836.3	2,836.3	5.9	4.9	63.67	-1,655.2	717.4	1,720.5	1,709.9	10.55	163.062		
2,900.0	2,866.0	2,928.0	2,928.0	6.5	5.1	64.80	-1,655.2	717.4	1,701.9	1,690.7	11.26	151.176		
3,000.0	2,957.7	3,019.7	3,019.7	7.1	5.2	65.94	-1,655.2	717.4	1,684.1	1,672.1	12.01	140.264		
3,100.0	3,049.4	3,111.4	3,111.4	7.8	5.4	67.10	-1,655.2	717.4	1,667.0	1,654.2	12.79	130.335		
3,200.0	3,141.1	3,203.1	3,203.1	8.4	5.6	68.29	-1,655.2	717.4	1,650.7	1,637.1	13.60	121.347		
3,300.0	3,232.9	3,294.9	3,294.9	9.1	5.7	69.49	-1,655.2	717.4	1,635.3	1,620.8	14.44	113.232		
3,400.0	3,324.6	3,386.6	3,386.6	9.8	5.9	70.72	-1,655.2	717.4	1,620.6	1,605.3	15.30	105.914		
3,500.0	3,416.3	3,478.3	3,478.3	10.5	6.0	71.96	-1,655.2	717.4	1,606.8	1,590.7	16.18	99.316		
3,600.0	3,508.0	3,570.0	3,570.0	11.2	6.2	73.22	-1,655.2	717.4	1,593.9	1,576.9	17.07	93.364		
3,700.0	3,599.7	3,661.7	3,661.7	12.0	6.4	74.50	-1,655.2	717.4	1,581.9	1,564.0	17.98	87.990		
3,800.0	3,691.4	3,753.4	3,753.4	12.7	6.5	75.79	-1,655.2	717.4	1,570.8	1,552.0	18.90	83.133		
3,900.0	3,783.1	3,845.1	3,845.1	13.4	6.7	77.10	-1,655.2	717.4	1,560.7	1,540.9	19.82	78.739		
4,000.0	3,874.8	3,936.8	3,936.8	14.1	6.8	78.42	-1,655.2	717.4	1,551.5	1,530.8	20.75	74.758		
4,100.0	3,966.5	4,028.5	4,028.5	14.9	7.0	79.75	-1,655.2	717.4	1,543.3	1,521.6	21.69	71.149		
4,191.9	4,050.8	4,112.8	4,112.8	15.6	7.2	80.99	-1,655.2	717.4	1,536.6	1,514.1	22.56	68.128		
4,200.0	4,058.2	4,120.2	4,120.2	15.6	7.2	81.07	-1,655.2	717.4	1,536.1	1,513.5	22.63	67.878		
4,300.0	4,151.4	5,066.3	5,004.5	16.2	9.8	95.04	-1,420.0	688.3	1,518.6	1,493.4	25.17	60.328		
4,400.0	4,246.9	5,122.2	5,048.5	16.7	10.2	94.37	-1,392.3	687.7	1,467.1	1,441.2	25.88	56.685		
4,500.0	4,344.3	5,174.2	5,087.9	17.1	10.6	93.78	-1,367.4	644.8	1,417.9	1,391.4	26.50	53.509		
4,600.0	4,443.0	5,223.3	5,123.6	17.4	10.9	93.30	-1,344.7	619.9	1,371.5	1,344.5	27.03	50.736		
4,700.0	4,542.6	5,270.0	5,156.1	17.6	11.3	92.95	-1,324.1	593.3	1,328.4	1,300.9	27.49	48.315		
4,779.5	4,622.0	5,300.0	5,176.1	17.6	11.6	-167.92	-1,311.4	575.0	1,296.8	1,277.7	19.06	68.043		
4,800.0	4,642.5	5,314.8	5,185.7	17.6	11.7	-167.41	-1,305.3	565.5	1,289.0	1,269.9	19.15	67.327		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Project:	San Juan County, NM	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Reference Site:	S28-T24N-R9W	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site Error:	0.0usft	North Reference:	True
Reference Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	H2	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #13	Offset TVD Reference:	Offset Datum

Offset Design S27-T24N-R9W - Escrito L27-2409 01H - H2 - Plan #3														Offset Site Error:	0.0 usft
Survey Program: 0-MWD														Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance		Total		Separation		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor			
4,879.7	4,722.3	5,350.0	5,207.8	17.7	12.1	-166.16	-1,291.2	542.0	1,260.7	1,241.3	19.40	64.986			
4,900.0	4,742.5	5,350.0	5,207.8	17.7	12.1	-76.87	-1,291.2	542.0	1,254.0	1,225.7	28.32	44.277			
4,950.0	4,792.4	5,376.4	5,223.7	17.7	12.3	-77.45	-1,281.0	523.5	1,237.6	1,209.1	28.52	43.399			
5,000.0	4,841.8	5,400.0	5,237.3	17.6	12.6	-78.12	-1,272.3	506.4	1,221.7	1,193.1	28.61	42.705			
5,050.0	4,890.5	5,418.9	5,247.9	17.4	12.8	-78.94	-1,265.5	492.3	1,206.2	1,177.6	28.60	42.176			
5,100.0	4,938.2	5,450.0	5,264.5	17.2	13.2	-79.36	-1,254.8	468.3	1,191.4	1,162.7	28.68	41.543			
5,150.0	4,984.5	5,463.3	5,271.4	16.9	13.3	-80.31	-1,250.4	457.7	1,176.9	1,148.4	28.48	41.325			
5,200.0	5,029.2	5,486.3	5,282.7	16.6	13.6	-80.95	-1,243.1	439.2	1,163.0	1,134.7	28.35	41.023			
5,250.0	5,072.0	5,500.0	5,289.2	16.2	13.8	-81.80	-1,238.9	427.8	1,149.8	1,121.8	28.04	41.013			
5,300.0	5,112.7	5,533.4	5,304.3	15.7	14.3	-82.15	-1,229.1	399.7	1,137.1	1,109.1	27.99	40.627			
5,350.0	5,150.9	5,550.0	5,311.3	15.3	14.5	-82.88	-1,224.6	385.3	1,125.1	1,097.5	27.64	40.701			
5,400.0	5,186.5	5,582.0	5,324.0	14.7	15.0	-83.28	-1,216.3	357.2	1,113.7	1,086.2	27.54	40.437			
5,450.0	5,219.3	5,600.0	5,330.7	14.2	15.2	-83.92	-1,211.9	341.0	1,103.0	1,075.9	27.19	40.564			
5,500.0	5,248.9	5,632.0	5,341.5	13.7	15.7	-84.33	-1,204.7	311.8	1,093.0	1,065.9	27.11	40.316			
5,550.0	5,275.4	5,650.0	5,347.1	13.1	16.0	-84.92	-1,201.0	295.1	1,083.8	1,057.0	26.81	40.429			
5,600.0	5,298.4	5,683.1	5,356.5	12.7	16.6	-85.33	-1,194.8	264.0	1,075.3	1,048.4	26.84	40.056			
5,650.0	5,317.9	5,700.0	5,360.7	12.2	16.8	-85.87	-1,192.0	247.8	1,067.6	1,040.9	26.65	40.054			
5,700.0	5,333.7	5,735.1	5,368.4	11.9	17.5	-86.28	-1,186.7	214.0	1,060.6	1,033.7	26.92	39.396			
5,750.0	5,345.7	5,750.0	5,371.2	11.6	17.7	-86.75	-1,184.8	199.5	1,054.7	1,027.8	26.92	39.177			
5,800.0	5,353.9	5,787.8	5,377.2	11.4	18.4	-87.17	-1,180.6	162.4	1,049.4	1,021.9	27.52	38.129			
5,850.0	5,358.2	5,814.3	5,380.3	11.4	18.9	-87.60	-1,178.3	136.2	1,045.1	1,017.0	28.05	37.255			
5,889.7	5,358.8	5,835.4	5,382.1	11.4	19.3	-87.92	-1,176.9	115.2	1,042.4	1,013.8	28.58	36.466			
5,889.7	5,358.8	5,835.4	5,382.1	11.4	19.3	-87.92	-1,176.9	115.2	1,042.4	1,013.8	28.58	36.466			
5,900.0	5,358.6	5,850.0	5,383.1	11.5	19.5	-87.99	-1,176.1	100.7	1,041.9	1,012.9	28.93	36.016			
6,000.0	5,357.1	5,900.0	5,384.3	12.1	20.5	-88.10	-1,174.8	50.7	1,038.4	1,007.8	30.67	33.858			
6,042.6	5,356.4	5,925.2	5,383.9	12.6	21.0	-88.10	-1,174.7	25.5	1,038.2	1,006.6	31.69	32.761			
6,100.0	5,355.5	5,982.6	5,382.9	13.3	22.1	-88.09	-1,174.6	-31.9	1,038.2	1,004.7	33.58	30.915			
6,200.0	5,353.9	6,082.6	5,381.2	14.8	24.2	-88.08	-1,174.4	-131.9	1,038.2	1,001.0	37.26	27.863			
6,300.0	5,352.4	6,182.6	5,379.4	16.5	26.3	-88.07	-1,174.3	-231.8	1,038.2	997.0	41.23	25.179			
6,400.0	5,350.8	6,282.6	5,377.7	18.4	28.5	-88.06	-1,174.1	-331.8	1,038.2	992.8	45.42	22.860			
6,500.0	5,349.2	6,382.6	5,375.9	20.4	30.7	-88.05	-1,173.9	-431.8	1,038.2	988.4	49.76	20.866			
6,600.0	5,347.6	6,482.6	5,374.2	22.5	33.0	-88.04	-1,173.8	-531.8	1,038.2	984.0	54.21	19.151			
6,700.0	5,346.1	6,582.6	5,372.4	24.6	35.3	-88.03	-1,173.6	-631.8	1,038.2	979.4	58.75	17.671			
6,800.0	5,344.5	6,682.6	5,370.7	26.8	37.6	-88.02	-1,173.4	-731.8	1,038.2	974.8	63.36	16.386			
6,900.0	5,342.9	6,782.6	5,369.0	29.1	39.9	-88.01	-1,173.3	-831.8	1,038.1	970.1	68.01	15.264			
7,000.0	5,341.4	6,882.6	5,367.2	31.4	42.3	-88.00	-1,173.1	-931.7	1,038.1	965.4	72.71	14.278			
7,100.0	5,339.8	6,982.6	5,365.5	33.7	44.7	-87.99	-1,172.9	-1,031.7	1,038.1	960.7	77.44	13.405			
7,200.0	5,338.2	7,082.6	5,363.7	36.0	47.0	-87.98	-1,172.8	-1,131.7	1,038.1	955.9	82.20	12.629			
7,300.0	5,336.6	7,182.6	5,362.0	38.4	49.4	-87.98	-1,172.6	-1,231.7	1,038.1	951.1	86.98	11.935			
7,400.0	5,335.1	7,282.6	5,360.2	40.8	51.8	-87.97	-1,172.4	-1,331.7	1,038.1	946.3	91.78	11.311			
7,500.0	5,333.5	7,382.6	5,358.5	43.1	54.2	-87.96	-1,172.3	-1,431.7	1,038.1	941.5	96.59	10.747			
7,600.0	5,331.9	7,482.6	5,356.7	45.5	56.6	-87.95	-1,172.1	-1,531.6	1,038.1	936.7	101.42	10.235			
7,700.0	5,330.4	7,582.6	5,355.0	47.9	59.0	-87.94	-1,171.9	-1,631.6	1,038.1	931.8	106.26	9.769			
7,800.0	5,328.8	7,682.6	5,353.3	50.3	61.5	-87.93	-1,171.8	-1,731.6	1,038.1	926.9	111.11	9.343			
7,900.0	5,327.2	7,782.6	5,351.5	52.7	63.9	-87.92	-1,171.6	-1,831.6	1,038.0	922.1	115.96	8.952			
8,000.0	5,325.7	7,882.6	5,349.8	55.2	66.3	-87.91	-1,171.4	-1,931.6	1,038.0	917.2	120.82	8.591			
8,100.0	5,324.1	7,982.6	5,348.0	57.6	68.7	-87.90	-1,171.3	-2,031.6	1,038.0	912.3	125.69	8.258			
8,200.0	5,322.5	8,082.6	5,346.3	60.0	71.2	-87.89	-1,171.1	-2,131.6	1,038.0	907.4	130.57	7.950			
8,300.0	5,320.9	8,182.6	5,344.5	62.4	73.6	-87.88	-1,170.9	-2,231.5	1,038.0	902.5	135.45	7.663			
8,400.0	5,319.4	8,282.6	5,342.8	64.9	76.1	-87.87	-1,170.8	-2,331.5	1,038.0	897.6	140.34	7.396			
8,500.0	5,317.8	8,382.6	5,341.0	67.3	78.5	-87.86	-1,170.6	-2,431.5	1,038.0	892.7	145.23	7.147			
8,600.0	5,316.2	8,482.6	5,339.3	69.8	80.9	-87.85	-1,170.4	-2,531.5	1,038.0	887.8	150.12	6.914			

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

Cathedral Energy Services

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Reference Site: S28-T24N-R9W
Site Error: 0.0usft
Reference Well: Nageezi A28-2409 01H
Well Error: 0.0usft
Reference Wellbore: Hz
Reference Design: Plan #13

Local Co-ordinate Reference: Well Nageezi A28-2409 01H
TVD Reference: KB @ 6878.0usft (Aztec 920)
MD Reference: KB @ 6878.0usft (Aztec 920)
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 S27-T24N-R9W - Escrito L27-2409 01H - Hz - Plan #3													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance		Total		Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor		
8,700.0	5,314.7	8,582.6	5,337.6	72.2	83.4	-87.84	-1,170.3	-2,631.5	1,038.0	882.9	155.01	6.696		
8,800.0	5,313.1	8,682.6	5,335.8	74.6	85.8	-87.83	-1,170.1	-2,731.5	1,037.9	878.0	159.91	6.491		
8,900.0	5,311.5	8,782.6	5,334.1	77.1	88.3	-87.82	-1,169.9	-2,831.4	1,037.9	873.1	164.81	6.298		
9,000.0	5,309.9	8,882.6	5,332.3	79.5	90.7	-87.81	-1,169.8	-2,931.4	1,037.9	868.2	169.72	6.116		
9,100.0	5,308.4	8,982.6	5,330.6	82.0	93.2	-87.80	-1,169.6	-3,031.4	1,037.9	863.3	174.63	5.944		
9,200.0	5,306.8	9,082.6	5,328.8	84.4	95.6	-87.79	-1,169.4	-3,131.4	1,037.9	858.4	179.53	5.781		
9,300.0	5,305.2	9,182.6	5,327.1	86.9	98.1	-87.78	-1,169.3	-3,231.4	1,037.9	853.4	184.44	5.627		
9,400.0	5,303.7	9,282.6	5,325.3	89.3	100.5	-87.77	-1,169.1	-3,331.4	1,037.9	848.5	189.36	5.481		
9,500.0	5,302.1	9,382.6	5,323.6	91.8	103.0	-87.76	-1,168.9	-3,431.3	1,037.9	843.6	194.27	5.342		
9,600.0	5,300.5	9,482.6	5,321.9	94.2	105.4	-87.75	-1,168.8	-3,531.3	1,037.9	838.7	199.18	5.211		
9,700.0	5,299.0	9,582.6	5,320.1	96.7	107.9	-87.74	-1,168.6	-3,631.3	1,037.8	833.7	204.10	5.085		
9,800.0	5,297.4	9,682.6	5,318.4	99.2	110.4	-87.74	-1,168.4	-3,731.3	1,037.8	828.8	209.02	4.965		
9,900.0	5,295.8	9,782.6	5,316.6	101.6	112.8	-87.73	-1,168.3	-3,831.3	1,037.8	823.9	213.93	4.851		
10,000.0	5,294.2	9,882.6	5,314.9	104.1	115.3	-87.72	-1,168.1	-3,931.3	1,037.8	819.0	218.85	4.742		
10,100.0	5,292.7	9,982.6	5,313.1	106.5	117.7	-87.71	-1,167.9	-4,031.3	1,037.8	814.0	223.77	4.638		
10,200.0	5,291.1	10,082.6	5,311.4	109.0	120.2	-87.70	-1,167.8	-4,131.2	1,037.8	809.1	228.70	4.538		
10,300.0	5,289.5	10,182.6	5,309.7	111.5	122.7	-87.69	-1,167.6	-4,231.2	1,037.8	804.2	233.62	4.442		
10,400.0	5,288.0	10,282.6	5,307.9	113.9	125.1	-87.68	-1,167.4	-4,331.2	1,037.8	799.2	238.54	4.351		
10,500.0	5,286.4	10,382.6	5,306.2	116.4	127.6	-87.67	-1,167.3	-4,431.2	1,037.8	794.3	243.46	4.263		
10,600.0	5,284.8	10,482.6	5,304.4	118.8	130.0	-87.66	-1,167.1	-4,531.2	1,037.8	789.4	248.39	4.178		
10,627.7	5,284.4	10,510.4	5,303.9	119.5	130.7	-87.66	-1,167.1	-4,558.9	1,037.8	788.0	249.75	4.155 CC		
10,645.4	5,284.1	10,512.5	5,303.9	120.0	130.8	-87.66	-1,167.1	-4,561.0	1,037.9	787.6	250.24	4.147 ES, SF		

Cathedral Energy Services

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Reference Site: S28-T24N-R9W
Site Error: 0.0usft
Reference Well: Nageezi A28-2409 01H
Well Error: 0.0usft
Reference Wellbore: Hz
Reference Design: Plan #13

Local Co-ordinate Reference: Well Nageezi A28-2409 01H
TVD Reference: KB @ 6878.0usft (Aztec 920)
MD Reference: KB @ 6878.0usft (Aztec 920)
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 S27-T24N-R9W - Escrito L27-2409 01H - Hz - Plan #4													Offset Site Error:
Survey Program: 110-Geolink MWD 5606-													Offset Well Error:
Reference	Offset	Semi Major Axis		Distance		Total		Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor	
0.0	0.0	58.8	58.8	0.0	0.1	156.58	-1,655.3	717.2	1,804.0				
100.0	100.0	159.2	159.2	0.1	0.3	156.61	-1,656.0	716.3	1,804.3	1,803.9	0.40	4,530.525	
200.0	200.0	260.0	260.0	0.3	0.4	156.63	-1,656.3	715.8	1,804.4	1,803.6	0.75	2,409.906	
300.0	300.0	366.5	366.5	0.5	0.6	156.64	-1,656.4	715.5	1,804.4	1,803.3	1.11	1,626.747	
400.0	400.0	464.9	464.9	0.7	0.8	156.63	-1,656.2	715.5	1,804.1	1,802.7	1.46	1,239.528	
500.0	500.0	566.0	566.0	0.8	1.0	156.63	-1,655.9	715.6	1,803.9	1,802.1	1.81	998.581	
560.8	560.8	621.8	621.8	1.0	1.1	156.62	-1,655.8	715.7	1,803.8	1,801.8	2.01	897.459	
600.0	600.0	661.5	661.5	1.0	1.1	156.62	-1,655.8	715.7	1,803.8	1,801.7	2.15	839.923	
700.0	700.0	766.5	766.5	1.2	1.3	156.61	-1,655.5	716.1	1,803.7	1,801.2	2.51	719.928	
800.0	800.0	865.8	865.7	1.4	1.5	156.60	-1,655.1	716.3	1,803.4	1,800.6	2.85	632.060	
900.0	900.0	963.8	963.8	1.5	1.7	156.60	-1,654.9	716.3	1,803.3	1,800.1	3.20	563.718	
1,000.0	1,000.0	1,067.8	1,067.8	1.7	1.8	156.59	-1,654.7	716.3	1,803.1	1,799.5	3.55	507.204	
1,100.0	1,100.0	1,162.1	1,162.1	1.9	2.0	156.59	-1,654.6	716.2	1,802.9	1,799.0	3.89	462.984	
1,102.0	1,102.0	1,164.0	1,164.0	1.9	2.0	156.59	-1,654.6	716.2	1,802.9	1,799.0	3.90	462.192	
1,200.0	1,200.0	1,261.9	1,261.9	2.1	2.2	156.59	-1,654.6	716.3	1,802.9	1,798.7	4.24	424.938	
1,300.0	1,300.0	1,359.4	1,359.4	2.2	2.3	156.59	-1,654.6	716.3	1,803.0	1,798.4	4.59	393.025	
1,400.0	1,400.0	1,446.6	1,446.6	2.4	2.5	156.60	-1,655.1	716.3	1,803.5	1,798.6	4.91	367.007	
1,500.0	1,500.0	1,544.3	1,544.2	2.6	2.7	156.61	-1,656.1	716.4	1,804.5	1,799.2	5.26	343.118	
1,600.0	1,600.0	1,640.5	1,640.4	2.8	2.8	156.61	-1,657.0	716.8	1,805.5	1,799.9	5.60	322.314	
1,700.0	1,700.0	1,731.7	1,731.7	2.9	3.0	156.60	-1,658.1	717.6	1,807.0	1,801.1	5.94	304.423	
1,800.0	1,800.0	1,853.4	1,853.3	3.1	3.2	156.60	-1,659.3	718.1	1,808.0	1,801.7	6.32	285.944	
1,900.0	1,900.0	1,957.6	1,957.6	3.3	3.4	156.61	-1,659.8	717.9	1,808.4	1,801.7	6.68	270.744	
2,000.0	2,000.0	2,075.3	2,075.3	3.5	3.6	156.59	-1,659.3	718.3	1,808.1	1,801.0	7.06	256.133	
2,100.0	2,100.0	2,174.3	2,174.3	3.6	3.8	156.57	-1,658.3	718.7	1,807.4	1,800.0	7.41	244.031	
2,200.0	2,199.9	2,275.3	2,275.3	3.8	3.9	57.23	-1,657.4	719.0	1,804.8	1,797.0	7.75	232.733	
2,300.0	2,299.4	2,372.5	2,372.5	4.0	4.1	57.70	-1,656.6	719.2	1,798.5	1,790.4	8.10	222.066	
2,400.0	2,397.8	2,473.4	2,473.3	4.2	4.3	58.51	-1,655.9	719.2	1,788.5	1,780.1	8.47	211.229	
2,500.0	2,494.8	2,566.0	2,565.9	4.5	4.5	59.59	-1,655.2	719.2	1,775.1	1,766.2	8.86	200.268	
2,600.0	2,589.9	2,659.1	2,659.0	4.9	4.6	60.97	-1,654.6	719.5	1,758.7	1,749.4	9.33	188.428	
2,687.6	2,671.2	2,742.9	2,742.8	5.3	4.8	62.47	-1,654.1	719.7	1,742.0	1,732.2	9.83	177.130	
2,700.0	2,682.6	2,754.9	2,754.8	5.4	4.8	62.61	-1,654.0	719.8	1,739.5	1,729.6	9.91	175.472	
2,800.0	2,774.3	2,843.4	2,843.4	5.9	4.9	63.66	-1,653.5	720.1	1,719.7	1,709.2	10.56	162.805	
2,900.0	2,866.0	2,931.4	2,931.3	6.5	5.1	64.72	-1,653.0	720.4	1,700.8	1,689.5	11.26	151.017	
3,000.0	2,957.7	3,021.5	3,021.4	7.1	5.2	65.84	-1,652.9	720.5	1,682.7	1,670.7	12.01	140.149	
3,100.0	3,049.4	3,108.9	3,108.8	7.8	5.4	66.95	-1,652.8	720.6	1,665.6	1,652.8	12.78	130.316	
3,200.0	3,141.1	3,201.9	3,201.9	8.4	5.6	68.14	-1,653.0	720.8	1,649.4	1,635.8	13.60	121.310	
3,300.0	3,232.9	3,290.5	3,290.4	9.1	5.7	69.30	-1,653.0	721.2	1,634.0	1,619.5	14.43	113.259	
3,400.0	3,324.6	3,391.8	3,391.7	9.8	5.9	70.62	-1,653.0	722.0	1,619.3	1,604.0	15.31	105.792	
3,500.0	3,416.3	3,490.7	3,490.6	10.5	6.1	71.92	-1,652.1	723.1	1,604.8	1,588.6	16.20	99.067	
3,600.0	3,508.0	3,586.0	3,585.9	11.2	6.2	73.22	-1,651.2	723.3	1,591.0	1,573.9	17.10	93.036	
3,700.0	3,599.7	3,675.4	3,675.3	12.0	6.4	74.48	-1,650.4	723.1	1,578.0	1,560.0	18.00	87.658	
3,800.0	3,691.4	3,764.2	3,764.1	12.7	6.5	75.74	-1,649.8	722.8	1,566.0	1,547.1	18.91	82.805	
3,900.0	3,783.1	3,855.9	3,855.8	13.4	6.7	77.06	-1,649.1	722.6	1,555.0	1,535.2	19.84	78.385	
4,000.0	3,874.8	3,945.9	3,945.8	14.1	6.9	78.38	-1,648.6	721.8	1,545.2	1,524.5	20.77	74.404	
4,100.0	3,966.5	4,035.7	4,035.6	14.9	7.0	79.73	-1,648.2	720.7	1,536.4	1,514.7	21.70	70.794	
4,191.9	4,050.8	4,115.7	4,115.6	15.6	7.2	80.96	-1,647.9	719.4	1,529.4	1,506.8	22.56	67.794	
4,200.0	4,058.2	4,122.3	4,122.2	15.6	7.2	81.03	-1,647.9	719.3	1,528.8	1,506.2	22.63	67.550	
4,300.0	4,151.4	4,209.0	4,208.9	16.2	7.3	81.99	-1,648.0	718.9	1,523.2	1,499.8	23.43	65.019	
4,400.0	4,246.9	4,300.9	4,300.8	16.7	12.2	103.31	-1,260.6	564.4	1,495.2	1,467.9	27.28	54.813	
4,500.0	4,344.3	4,417.0	4,416.9	17.1	12.4	101.07	-1,251.3	555.1	1,435.3	1,407.5	27.81	51.608	
4,600.0	4,443.0	4,512.1	4,512.0	17.4	12.6	98.97	-1,242.9	545.8	1,378.4	1,350.2	28.21	48.868	
4,700.0	4,542.6	4,617.0	4,616.9	17.6	12.8	97.18	-1,234.0	534.8	1,325.2	1,296.7	28.49	46.513	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Project:	San Juan County, NM	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Reference Site:	S28-T24N-R9W	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site Error:	0.0usft	North Reference:	True
Reference Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #13	Offset TVD Reference:	Offset Datum

Offset Design S27-T24N-R9W - Escrito L27-2409 01H - Hz - Plan #4													Offset Site Error:	0.0 usft
Survey Program: 110-Geolink MWD, 5606-													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning	
4,779.5	4,622.0	5,463.5	5,298.6	17.6	12.9	-164.54	-1,226.7	525.0	1,285.8	1,265.8	19.97	64.383		
4,800.0	4,642.5	5,467.7	5,300.8	17.6	13.0	-164.36	-1,224.7	522.0	1,276.1	1,256.1	20.02	63.731		
4,879.7	4,722.3	5,480.0	5,307.1	17.7	13.1	-163.85	-1,218.9	513.2	1,240.6	1,220.4	20.21	61.390		
4,900.0	4,742.5	5,488.8	5,311.4	17.7	13.2	-74.38	-1,214.9	506.7	1,232.0	1,203.0	29.04	42.426		
4,950.0	4,792.4	5,500.8	5,317.2	17.7	13.4	-75.85	-1,209.5	497.6	1,211.3	1,182.3	29.06	41.681		
5,000.0	4,841.8	5,512.0	5,322.3	17.6	13.5	-77.32	-1,204.7	488.8	1,191.2	1,162.2	28.99	41.086		
5,050.0	4,890.5	5,523.6	5,327.4	17.4	13.6	-78.72	-1,200.0	479.5	1,171.7	1,142.8	28.87	40.588		
5,100.0	4,938.2	5,544.0	5,335.8	17.2	13.9	-79.73	-1,192.2	462.7	1,153.2	1,124.4	28.80	40.043		
5,150.0	4,984.5	5,544.0	5,335.8	16.9	13.9	-81.42	-1,192.2	462.7	1,135.4	1,107.0	28.37	40.019		
5,200.0	5,029.2	5,556.0	5,340.4	16.6	14.0	-82.58	-1,188.1	452.4	1,118.7	1,090.6	28.07	39.852		
5,250.0	5,072.0	5,575.0	5,347.2	16.2	14.3	-83.43	-1,182.2	435.7	1,103.4	1,075.5	27.83	39.653		
5,300.0	5,112.7	5,575.0	5,347.2	15.7	14.3	-84.76	-1,182.2	435.7	1,089.1	1,061.8	27.25	39.959		
5,350.0	5,150.9	5,590.0	5,352.2	15.3	14.5	-85.54	-1,178.2	422.1	1,076.2	1,049.3	26.89	40.022		
5,400.0	5,186.5	5,606.0	5,357.0	14.7	14.7	-86.20	-1,174.4	407.3	1,064.7	1,038.2	26.52	40.155		
5,450.0	5,219.3	5,614.6	5,359.5	14.2	14.8	-86.93	-1,172.7	399.3	1,054.7	1,028.7	26.03	40.520		
5,500.0	5,248.9	5,625.0	5,362.3	13.7	14.9	-87.49	-1,170.8	389.4	1,046.3	1,020.7	25.58	40.902		
5,550.0	5,275.4	5,638.6	5,365.7	13.1	15.1	-87.88	-1,168.9	376.4	1,039.5	1,014.3	25.22	41.218		
5,600.0	5,298.4	5,650.0	5,368.5	12.7	15.3	-88.20	-1,167.6	365.4	1,034.4	1,009.5	24.87	41.593		
5,650.0	5,317.9	5,677.4	5,374.4	12.2	15.6	-88.26	-1,165.5	338.8	1,030.7	1,005.8	24.86	41.456		
5,700.0	5,333.7	5,700.0	5,378.8	11.9	15.9	-88.34	-1,164.0	316.6	1,027.8	1,003.0	24.87	41.335		
5,750.0	5,345.7	5,749.0	5,387.2	11.6	16.6	-88.33	-1,161.4	268.4	1,025.3	999.8	25.50	40.208		
5,800.0	5,353.9	5,785.0	5,392.2	11.4	17.2	-88.44	-1,160.0	232.8	1,023.5	997.5	26.02	39.335		
5,850.0	5,358.2	5,821.0	5,396.2	11.4	17.8	-88.60	-1,159.0	197.1	1,022.3	995.6	26.71	38.268		
5,889.7	5,358.8	5,849.5	5,398.6	11.4	18.3	-88.77	-1,158.6	168.6	1,021.7	994.3	27.38	37.310		
5,889.7	5,358.8	5,849.6	5,398.6	11.4	18.3	-88.77	-1,158.6	168.6	1,021.7	994.3	27.38	37.310		
5,900.0	5,358.6	5,856.9	5,399.2	11.5	18.4	-88.80	-1,158.6	161.2	1,021.6	994.0	27.57	37.051		
5,924.1	5,358.3	5,874.3	5,400.3	11.6	18.7	-88.88	-1,158.5	143.9	1,021.5	993.5	28.08	36.374 CC		
6,000.0	5,357.1	5,929.2	5,402.3	12.1	19.6	-89.04	-1,159.1	89.1	1,022.3	992.6	29.73	34.391		
6,100.0	5,355.5	6,036.1	5,401.1	13.3	21.7	-89.07	-1,161.8	-17.8	1,025.0	991.9	33.12	30.951		
6,200.0	5,353.9	6,137.4	5,399.3	14.8	23.7	-89.06	-1,162.9	-119.1	1,026.3	989.5	36.81	27.879		
6,300.0	5,352.4	6,237.4	5,397.6	16.5	25.8	-89.05	-1,164.0	-219.1	1,027.6	986.8	40.77	25.204		
6,400.0	5,350.8	6,337.4	5,395.8	18.4	28.0	-89.04	-1,165.1	-319.0	1,028.8	983.9	44.94	22.892		
6,500.0	5,349.2	6,437.4	5,394.1	20.4	30.2	-89.04	-1,166.2	-419.0	1,030.1	980.8	49.27	20.906		
6,600.0	5,347.6	6,537.4	5,392.3	22.5	32.4	-89.03	-1,167.3	-519.0	1,031.3	977.6	53.72	19.199		
6,700.0	5,346.1	6,637.4	5,390.6	24.6	34.7	-89.02	-1,168.4	-618.9	1,032.6	974.3	58.25	17.726		
6,800.0	5,344.5	6,737.4	5,388.9	26.8	37.0	-89.01	-1,169.5	-718.9	1,033.9	971.0	62.86	16.448		
6,900.0	5,342.9	6,837.4	5,387.1	29.1	39.3	-89.00	-1,170.6	-818.9	1,035.1	967.6	67.51	15.333		
7,000.0	5,341.4	6,937.3	5,385.4	31.4	41.7	-88.99	-1,171.7	-918.9	1,036.4	964.2	72.21	14.353		
7,100.0	5,339.8	7,037.3	5,383.6	33.7	44.0	-88.99	-1,172.8	-1,018.8	1,037.6	960.7	76.94	13.487		
7,200.0	5,338.2	7,150.6	5,381.7	36.0	46.7	-88.97	-1,173.0	-1,132.1	1,037.8	955.8	82.02	12.654		
7,300.0	5,336.6	7,250.6	5,379.9	38.4	49.1	-88.97	-1,172.8	-1,232.1	1,037.8	951.0	86.80	11.957		
7,400.0	5,335.1	7,350.6	5,378.2	40.8	51.5	-88.96	-1,172.6	-1,332.0	1,037.8	946.2	91.59	11.330		
7,500.0	5,333.5	7,450.6	5,376.4	43.1	53.9	-88.95	-1,172.4	-1,432.0	1,037.8	941.4	96.41	10.764		
7,600.0	5,331.9	7,550.6	5,374.7	45.5	56.3	-88.94	-1,172.3	-1,532.0	1,037.8	936.5	101.24	10.251		
7,700.0	5,330.4	7,650.6	5,372.9	47.9	58.8	-88.93	-1,172.1	-1,632.0	1,037.7	931.7	106.08	9.783		
7,800.0	5,328.8	7,750.6	5,371.2	50.3	61.2	-88.92	-1,171.9	-1,732.0	1,037.7	926.8	110.93	9.355		
7,900.0	5,327.2	7,850.6	5,369.4	52.7	63.6	-88.91	-1,171.8	-1,832.0	1,037.7	921.9	115.78	8.962		
8,000.0	5,325.7	7,950.6	5,367.7	55.2	66.0	-88.90	-1,171.6	-1,932.0	1,037.7	917.0	120.65	8.601		
8,100.0	5,324.1	8,050.6	5,365.9	57.6	68.5	-88.89	-1,171.4	-2,031.9	1,037.7	912.1	125.52	8.267		
8,200.0	5,322.5	8,150.6	5,364.2	60.0	70.9	-88.88	-1,171.2	-2,131.9	1,037.6	907.2	130.40	7.958		
8,300.0	5,320.9	8,250.6	5,362.5	62.4	73.3	-88.87	-1,171.1	-2,231.9	1,037.6	902.3	135.28	7.670		
8,400.0	5,319.4	8,350.6	5,360.7	64.9	75.8	-88.86	-1,170.9	-2,331.9	1,037.6	897.4	140.17	7.403		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Project:	San Juan County, NM	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Reference Site:	S28-T24N-R9W	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site Error:	0.0usft	North Reference:	True
Reference Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #13	Offset TVD Reference:	Offset Datum

Offset Design S27-T24N-R9W - Escrito L27-2409 01H - Hz - Plan #4														Offset Site Error:	0.0 usft
Survey Program: 110-Geolink MWD, 5606-														Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning		
Reference	Offset	Reference	Offset	Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
8,500.0	5,317.8	8,450.6	5,359.0	67.3	78.2	-88.85	-1,170.7	-2,431.9	1,037.6	892.5	145.06	7.153			
8,600.0	5,316.2	8,550.6	5,357.2	69.8	80.7	-88.84	-1,170.6	-2,531.9	1,037.6	887.6	149.95	6.919			
8,700.0	5,314.7	8,650.6	5,355.5	72.2	83.1	-88.83	-1,170.4	-2,631.8	1,037.5	882.7	154.85	6.700			
8,800.0	5,313.1	8,750.6	5,353.7	74.6	85.5	-88.82	-1,170.2	-2,731.8	1,037.5	877.8	159.75	6.495			
8,900.0	5,311.5	8,850.6	5,352.0	77.1	88.0	-88.81	-1,170.0	-2,831.8	1,037.5	872.9	164.66	6.301			
9,000.0	5,309.9	8,950.6	5,350.2	79.5	90.4	-88.80	-1,169.9	-2,931.8	1,037.5	867.9	169.56	6.119			
9,100.0	5,308.4	9,050.6	5,348.5	82.0	92.9	-88.79	-1,169.7	-3,031.8	1,037.5	863.0	174.47	5.946			
9,200.0	5,306.8	9,150.6	5,346.7	84.4	95.3	-88.78	-1,169.5	-3,131.8	1,037.5	858.1	179.38	5.783			
9,300.0	5,305.2	9,250.6	5,345.0	86.9	97.8	-88.77	-1,169.4	-3,231.8	1,037.4	853.1	184.30	5.629			
9,400.0	5,303.7	9,350.6	5,343.3	89.3	100.3	-88.76	-1,169.2	-3,331.7	1,037.4	848.2	189.21	5.483			
9,500.0	5,302.1	9,450.6	5,341.5	91.8	102.7	-88.75	-1,169.0	-3,431.7	1,037.4	843.3	194.13	5.344			
9,600.0	5,300.5	9,550.6	5,339.8	94.2	105.2	-88.74	-1,168.8	-3,531.7	1,037.4	838.3	199.04	5.212			
9,700.0	5,299.0	9,650.6	5,338.0	96.7	107.6	-88.73	-1,168.7	-3,631.7	1,037.4	833.4	203.96	5.086			
9,800.0	5,297.4	9,750.6	5,336.3	99.2	110.1	-88.72	-1,168.5	-3,731.7	1,037.3	828.5	208.88	4.966			
9,900.0	5,295.8	9,850.6	5,334.5	101.6	112.5	-88.71	-1,168.3	-3,831.7	1,037.3	823.5	213.80	4.852			
10,000.0	5,294.2	9,950.6	5,332.8	104.1	115.0	-88.70	-1,168.1	-3,931.6	1,037.3	818.6	218.73	4.742			
10,100.0	5,292.7	10,050.6	5,331.0	106.5	117.5	-88.69	-1,168.0	-4,031.6	1,037.3	813.6	223.65	4.638			
10,200.0	5,291.1	10,150.6	5,329.3	109.0	119.9	-88.69	-1,167.8	-4,131.6	1,037.3	808.7	228.57	4.538			
10,300.0	5,289.5	10,250.6	5,327.6	111.5	122.4	-88.68	-1,167.6	-4,231.6	1,037.2	803.7	233.50	4.442			
10,400.0	5,288.0	10,350.6	5,325.8	113.9	124.8	-88.67	-1,167.5	-4,331.6	1,037.2	798.8	238.42	4.350			
10,500.0	5,286.4	10,450.6	5,324.1	116.4	127.3	-88.66	-1,167.3	-4,431.6	1,037.2	793.9	243.35	4.262			
10,600.0	5,284.8	10,550.6	5,322.3	118.8	129.8	-88.65	-1,167.1	-4,531.6	1,037.2	788.9	248.28	4.177			
10,627.7	5,284.4	10,578.3	5,321.8	119.5	130.5	-88.64	-1,167.1	-4,559.3	1,037.2	787.5	249.64	4.155			
10,645.4	5,284.1	10,580.1	5,321.8	120.0	130.5	-88.64	-1,167.1	-4,561.0	1,037.3	787.2	250.12	4.147 ES, SF			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Project:	San Juan County, NM	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Reference Site:	S28-T24N-R9W	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site Error:	0.0usft	North Reference:	True
Reference Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #13	Offset TVD Reference:	Offset Datum

Offset Design S27-T24N-R9W - Escrito L27-2409 01H - Hz - Plan #5 Target Change DC 8/17/14 (they do it in the field)													Offset Site Error:
Survey Program: 110-Geolink MWD, 8744-Geolink MWD													Offset Well Error:
Reference	Offset	Semi Major Axis		Distance		Total		Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor	
0.0	0.0	58.8	58.8	0.0	0.1	156.58	-1,655.3	717.2	1,804.0				
100.0	100.0	159.2	159.2	0.1	0.3	156.61	-1,656.0	716.3	1,804.3	1,803.9	0.40	4,530.525	
200.0	200.0	260.0	260.0	0.3	0.4	156.63	-1,656.3	715.8	1,804.4	1,803.6	0.75	2,409.906	
300.0	300.0	366.5	366.5	0.5	0.6	156.64	-1,656.4	715.5	1,804.4	1,803.3	1.11	1,626.747	
400.0	400.0	464.9	464.9	0.7	0.8	156.63	-1,656.2	715.5	1,804.1	1,802.7	1.46	1,239.528	
500.0	500.0	566.0	566.0	0.8	1.0	156.63	-1,655.9	715.6	1,803.9	1,802.1	1.81	998.581	
560.8	560.8	621.8	621.8	1.0	1.1	156.62	-1,655.8	715.7	1,803.8	1,801.8	2.01	897.459	
600.0	600.0	661.5	661.5	1.0	1.1	156.62	-1,655.8	715.7	1,803.8	1,801.7	2.15	839.923	
700.0	700.0	766.5	766.5	1.2	1.3	156.61	-1,655.5	716.1	1,803.7	1,801.2	2.51	719.928	
800.0	800.0	865.8	865.7	1.4	1.5	156.60	-1,655.1	716.3	1,803.4	1,800.6	2.85	632.060	
900.0	900.0	963.8	963.8	1.5	1.7	156.60	-1,654.9	716.3	1,803.3	1,800.1	3.20	563.718	
1,000.0	1,000.0	1,067.8	1,067.8	1.7	1.8	156.59	-1,654.7	716.3	1,803.1	1,799.5	3.55	507.204	
1,100.0	1,100.0	1,162.1	1,162.1	1.9	2.0	156.59	-1,654.6	716.2	1,802.9	1,799.0	3.89	462.984	
1,102.0	1,102.0	1,164.0	1,164.0	1.9	2.0	156.59	-1,654.6	716.2	1,802.9	1,799.0	3.90	462.192	
1,200.0	1,200.0	1,261.9	1,261.9	2.1	2.2	156.59	-1,654.6	716.3	1,802.9	1,798.7	4.24	424.938	
1,300.0	1,300.0	1,359.4	1,359.4	2.2	2.3	156.59	-1,654.6	716.3	1,803.0	1,798.4	4.59	393.025	
1,400.0	1,400.0	1,446.6	1,446.6	2.4	2.5	156.60	-1,655.1	716.3	1,803.5	1,798.6	4.91	367.007	
1,500.0	1,500.0	1,544.3	1,544.2	2.6	2.7	156.61	-1,656.1	716.4	1,804.5	1,799.2	5.26	343.118	
1,600.0	1,600.0	1,640.5	1,640.4	2.8	2.8	156.61	-1,657.0	716.8	1,805.5	1,799.9	5.60	322.314	
1,700.0	1,700.0	1,731.7	1,731.7	2.9	3.0	156.60	-1,658.1	717.6	1,807.0	1,801.1	5.94	304.423	
1,800.0	1,800.0	1,853.4	1,853.3	3.1	3.2	156.60	-1,659.3	718.1	1,808.0	1,801.7	6.32	285.944	
1,900.0	1,900.0	1,957.6	1,957.6	3.3	3.4	156.61	-1,659.8	717.9	1,808.4	1,801.7	6.68	270.744	
2,000.0	2,000.0	2,075.3	2,075.3	3.5	3.6	156.59	-1,659.3	718.3	1,808.1	1,801.0	7.06	256.133	
2,100.0	2,100.0	2,174.3	2,174.3	3.6	3.8	156.57	-1,658.3	718.7	1,807.4	1,800.0	7.41	244.031	
2,200.0	2,199.9	2,275.3	2,275.3	3.8	3.9	57.23	-1,657.4	719.0	1,804.8	1,797.0	7.75	232.733	
2,300.0	2,299.4	2,372.5	2,372.5	4.0	4.1	57.70	-1,656.6	719.2	1,798.5	1,790.4	8.10	222.066	
2,400.0	2,397.8	2,473.4	2,473.3	4.2	4.3	58.51	-1,655.9	719.2	1,788.5	1,780.1	8.47	211.229	
2,500.0	2,494.8	2,566.0	2,565.9	4.5	4.5	59.59	-1,655.2	719.2	1,775.1	1,766.2	8.86	200.268	
2,600.0	2,589.9	2,659.1	2,659.0	4.9	4.6	60.97	-1,654.6	719.5	1,758.7	1,749.4	9.33	188.428	
2,687.6	2,671.2	2,742.9	2,742.8	5.3	4.8	62.47	-1,654.1	719.7	1,742.0	1,732.2	9.83	177.130	
2,700.0	2,682.6	2,754.9	2,754.8	5.4	4.8	62.61	-1,654.0	719.8	1,735.5	1,726.6	9.91	175.472	
2,800.0	2,774.3	2,843.4	2,843.4	5.9	4.9	63.66	-1,653.5	720.1	1,719.7	1,709.2	10.56	162.805	
2,900.0	2,866.0	2,931.4	2,931.3	6.5	5.1	64.72	-1,653.0	720.4	1,700.8	1,689.5	11.26	151.017	
3,000.0	2,957.7	3,021.5	3,021.4	7.1	5.2	65.84	-1,652.9	720.5	1,682.7	1,670.7	12.01	140.149	
3,100.0	3,049.4	3,108.9	3,108.8	7.8	5.4	66.95	-1,652.8	720.6	1,665.6	1,652.8	12.78	130.316	
3,200.0	3,141.1	3,201.9	3,201.9	8.4	5.6	68.14	-1,653.0	720.8	1,649.4	1,635.8	13.60	121.310	
3,300.0	3,232.9	3,290.5	3,290.4	9.1	5.7	69.30	-1,653.0	721.2	1,634.0	1,619.5	14.43	113.259	
3,400.0	3,324.6	3,391.8	3,391.7	9.8	5.9	70.62	-1,653.0	722.0	1,619.3	1,604.0	15.31	105.792	
3,500.0	3,416.3	3,490.7	3,490.6	10.5	6.1	71.92	-1,652.1	723.1	1,604.8	1,588.6	16.20	99.067	
3,600.0	3,508.0	3,586.0	3,585.9	11.2	6.2	73.22	-1,651.2	723.3	1,591.0	1,573.9	17.10	93.036	
3,700.0	3,599.7	3,675.4	3,675.3	12.0	6.4	74.48	-1,650.4	723.1	1,578.0	1,560.0	18.00	87.658	
3,800.0	3,691.4	3,764.2	3,764.1	12.7	6.5	75.74	-1,649.8	722.8	1,566.0	1,547.1	18.91	82.805	
3,900.0	3,783.1	3,855.9	3,855.8	13.4	6.7	77.06	-1,649.1	722.6	1,555.0	1,535.2	19.84	78.385	
4,000.0	3,874.8	3,945.9	3,945.8	14.1	6.9	78.38	-1,648.6	721.8	1,545.2	1,524.5	20.77	74.404	
4,100.0	3,966.5	4,035.7	4,035.6	14.9	7.0	79.73	-1,648.2	720.7	1,536.4	1,514.7	21.70	70.794	
4,191.9	4,050.8	4,115.7	4,115.6	15.6	7.2	80.96	-1,647.9	719.4	1,529.4	1,506.8	22.56	67.794	
4,200.0	4,058.2	4,122.3	4,122.2	15.6	7.2	81.03	-1,647.9	719.3	1,528.8	1,506.2	22.63	67.550	
4,300.0	4,151.4	4,209.0	4,208.9	16.2	7.3	81.99	-1,648.0	718.9	1,523.2	1,499.8	23.43	65.019	
4,400.0	4,246.9	4,300.9	4,300.8	16.7	12.2	103.31	-1,260.6	564.4	1,495.2	1,467.9	27.28	54.813	
4,500.0	4,344.3	4,417.0	4,416.9	17.1	12.4	101.07	-1,251.3	555.1	1,435.3	1,407.5	27.81	51.608	
4,600.0	4,443.0	4,532.1	4,532.0	17.4	12.6	98.97	-1,242.9	545.8	1,378.4	1,350.2	28.21	48.868	
4,700.0	4,542.6	4,649.0	4,648.9	17.6	12.8	97.18	-1,234.0	534.8	1,325.2	1,296.7	28.49	46.513	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Project:	San Juan County, NM	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Reference Site:	S28-T24N-R9W	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site Error:	0.0usft	North Reference:	True
Reference Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #13	Offset TVD Reference:	Offset Datum

Offset Design S27-T24N-R9W - Escrito L27-2409 01H - Hz - Plan #5 Target Change DC 8/17/14 (they do it in the field)													Offset Site Error:
Survey Program: 110-Geolink MWD, 8744-Geolink-MWD													0.0 usft
Reference	Offset	Semi Major Axis		Distance		Total		Separation		Warning		Offset Well Error:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor	
4,779.5	4,622.0	5,463.5	5,298.6	17.6	12.9	-164.54	-1,226.7	525.0	1,285.8	1,265.8	19.97	64.383	
4,800.0	4,642.5	5,467.7	5,300.8	17.6	13.0	-164.36	-1,224.7	522.0	1,276.1	1,256.1	20.02	63.731	
4,879.7	4,722.3	5,480.0	5,307.1	17.7	13.1	-163.85	-1,218.9	513.2	1,240.6	1,220.4	20.21	61.390	
4,900.0	4,742.5	5,488.8	5,311.4	17.7	13.2	-74.38	-1,214.9	506.7	1,232.0	1,203.0	29.04	42.426	
4,950.0	4,792.4	5,500.8	5,317.2	17.7	13.4	-75.85	-1,209.5	497.6	1,211.3	1,182.3	29.06	41.681	
5,000.0	4,841.8	5,512.0	5,322.3	17.6	13.5	-77.32	-1,204.7	488.8	1,191.2	1,162.2	28.99	41.086	
5,050.0	4,890.5	5,523.6	5,327.4	17.4	13.6	-78.72	-1,200.0	479.5	1,171.7	1,142.8	28.87	40.588	
5,100.0	4,938.2	5,544.0	5,335.8	17.2	13.9	-79.73	-1,192.2	462.7	1,153.2	1,124.4	28.80	40.043	
5,150.0	4,984.5	5,544.0	5,335.8	16.9	13.9	-81.42	-1,192.2	462.7	1,135.4	1,107.0	28.37	40.019	
5,200.0	5,029.2	5,556.0	5,340.4	16.6	14.0	-82.58	-1,188.1	452.4	1,118.7	1,090.6	28.07	39.852	
5,250.0	5,072.0	5,575.0	5,347.2	16.2	14.3	-83.43	-1,182.2	435.7	1,103.4	1,075.5	27.83	39.653	
5,300.0	5,112.7	5,575.0	5,347.2	15.7	14.3	-84.76	-1,182.2	435.7	1,089.1	1,061.8	27.25	39.959	
5,350.0	5,150.9	5,590.0	5,352.2	15.3	14.5	-85.54	-1,178.2	422.1	1,076.2	1,049.3	26.89	40.022	
5,400.0	5,186.5	5,606.0	5,357.0	14.7	14.7	-86.20	-1,174.4	407.3	1,064.7	1,038.2	26.52	40.155	
5,450.0	5,219.3	5,620.7	5,361.1	14.2	14.9	-86.80	-1,171.4	393.5	1,054.6	1,028.5	26.13	40.357	
5,500.0	5,248.9	5,645.0	5,367.0	13.7	15.2	-87.11	-1,167.0	370.4	1,045.8	1,019.9	25.91	40.368	
5,550.0	5,275.4	5,660.9	5,370.6	13.1	15.4	-87.52	-1,164.5	355.1	1,038.1	1,012.5	25.58	40.577	
5,600.0	5,298.4	5,677.0	5,374.1	12.7	15.7	-87.86	-1,162.3	339.5	1,031.8	1,006.5	25.31	40.766	
5,650.0	5,317.9	5,708.0	5,380.4	12.2	16.1	-87.98	-1,158.7	309.4	1,026.5	1,001.1	25.37	40.459	
5,700.0	5,333.7	5,740.0	5,385.8	11.9	16.6	-88.10	-1,155.5	278.0	1,021.9	996.4	25.56	39.982	
5,750.0	5,345.7	5,771.0	5,389.8	11.6	17.1	-88.22	-1,152.9	247.4	1,018.1	992.2	25.86	39.365	
5,800.0	5,353.9	5,803.0	5,393.1	11.4	17.6	-88.36	-1,150.9	215.6	1,015.2	988.8	26.33	38.554	
5,850.0	5,358.2	5,835.0	5,395.7	11.4	18.1	-88.53	-1,149.8	183.8	1,013.4	986.5	26.95	37.598	
5,889.7	5,358.8	5,849.8	5,396.7	11.4	18.4	-88.64	-1,149.6	168.9	1,012.7	985.4	27.35	37.029	
5,889.7	5,358.8	5,849.8	5,396.7	11.4	18.4	-88.64	-1,149.6	168.9	1,012.7	985.4	27.35	37.029	
5,900.0	5,358.6	5,856.8	5,397.1	11.5	18.5	-88.67	-1,149.6	162.0	1,012.6	985.1	27.53	36.783	
5,920.2	5,358.3	5,870.9	5,397.8	11.6	18.7	-88.72	-1,149.5	147.9	1,012.6	984.6	27.95	36.226 CC	
6,000.0	5,357.1	5,921.6	5,399.6	12.1	19.6	-88.87	-1,150.1	97.2	1,013.6	984.0	29.54	34.316	
6,100.0	5,355.5	5,994.7	5,400.2	13.3	20.9	-88.98	-1,153.1	24.3	1,017.8	985.6	32.20	31.612	
6,200.0	5,353.9	6,087.2	5,400.6	14.8	22.7	-89.09	-1,158.9	-68.1	1,024.1	988.5	35.66	28.721	
6,300.0	5,352.4	6,214.0	5,398.8	16.5	25.3	-89.10	-1,163.7	-194.8	1,027.8	987.6	40.20	25.571	
6,400.0	5,350.8	6,321.8	5,397.7	18.4	27.6	-89.13	-1,167.4	-302.5	1,031.4	986.9	44.54	23.157	
6,500.0	5,349.2	6,424.5	5,396.6	20.4	29.8	-89.17	-1,169.9	-405.2	1,034.0	985.1	48.93	21.132	
6,600.0	5,347.6	6,530.0	5,394.9	22.5	32.2	-89.17	-1,172.1	-510.6	1,036.2	982.7	53.50	19.367	
6,700.0	5,346.1	6,653.9	5,392.7	24.6	35.0	-89.15	-1,174.2	-634.5	1,038.2	979.6	58.60	17.716	
6,800.0	5,344.5	6,757.1	5,388.4	26.8	37.4	-89.00	-1,173.1	-737.6	1,037.4	974.1	63.28	16.393	
6,831.5	5,344.0	6,783.0	5,387.2	27.5	38.0	-88.96	-1,172.9	-763.5	1,037.3	972.7	64.61	16.054	
6,900.0	5,342.9	6,846.0	5,385.0	29.1	39.5	-88.90	-1,173.0	-826.4	1,037.5	969.8	67.67	15.332	
7,000.0	5,341.4	6,936.9	5,385.0	31.4	41.6	-88.97	-1,174.3	-917.3	1,039.0	966.8	72.15	14.401	
7,100.0	5,339.8	7,065.9	5,384.2	33.7	44.7	-89.04	-1,173.7	-1,046.3	1,038.6	961.0	77.58	13.387	
7,190.6	5,338.4	7,142.1	5,382.3	35.8	46.5	-89.00	-1,172.7	-1,122.5	1,037.6	956.0	81.54	12.725	
7,200.0	5,338.2	7,148.7	5,382.2	36.0	46.7	-89.00	-1,172.7	-1,129.1	1,037.6	955.7	81.92	12.666	
7,300.0	5,336.6	7,253.8	5,380.7	38.4	49.2	-89.01	-1,172.7	-1,234.1	1,037.7	950.9	86.82	11.952	
7,340.0	5,336.0	7,291.5	5,380.0	39.3	50.1	-89.01	-1,172.6	-1,271.9	1,037.7	949.0	88.69	11.700	
7,400.0	5,335.1	7,348.8	5,378.9	40.8	51.4	-88.99	-1,172.7	-1,327.1	1,037.8	946.4	91.45	11.348	
7,500.0	5,333.5	7,442.6	5,376.9	43.1	53.7	-88.97	-1,173.2	-1,422.9	1,038.6	942.4	96.16	10.800	
7,600.0	5,331.9	7,555.4	5,374.6	45.5	56.4	-88.94	-1,173.3	-1,535.7	1,038.8	937.5	101.30	10.254	
7,618.0	5,331.7	7,569.8	5,374.3	46.0	56.8	-88.93	-1,173.3	-1,550.1	1,038.8	936.7	102.08	10.176	
7,700.0	5,330.4	7,650.2	5,372.4	47.9	58.7	-88.90	-1,173.5	-1,630.5	1,039.1	933.1	106.01	9.802	
7,800.0	5,328.8	7,732.0	5,370.9	50.3	60.7	-88.89	-1,174.0	-1,712.2	1,039.9	929.5	110.42	9.418	
7,900.0	5,327.2	7,842.1	5,368.7	52.7	63.3	-88.86	-1,175.5	-1,822.3	1,041.5	926.0	115.52	9.016	
8,000.0	5,325.7	7,976.6	5,366.6	55.2	66.6	-88.86	-1,174.5	-1,956.8	1,040.9	919.7	121.23	8.586	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Project:	San Juan County, NM	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Reference Site:	S28-T24N-R9W	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site Error:	0.0usft	North Reference:	True
Reference Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore:	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #13	Offset TVD Reference:	Offset Datum

Offset Design S27-T24N-R9W - Escrito L27-2409 01H - Hz - Plan #5 Target Change DC 8/17/14 (they do it in the field)													Offset Site Error:	0.0 usft
Survey Program: 110-Geolink MWD, 8744-Geolink MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
8,100.0	5,324.1	8,069.8	5,365.0	57.6	68.9	-88.85	-1,172.1	-2,049.9	1,038.5	912.6	125.93	8.246		
8,200.0	5,322.5	8,156.7	5,363.7	60.0	71.0	-88.86	-1,171.3	-2,136.8	1,037.7	907.2	130.49	7.952		
8,242.9	5,321.8	8,194.5	5,363.0	61.1	71.9	-88.85	-1,171.1	-2,174.6	1,037.5	905.1	132.46	7.833		
8,300.0	5,320.9	8,239.5	5,362.1	62.4	73.0	-88.84	-1,171.3	-2,219.6	1,037.9	902.9	134.95	7.691		
8,400.0	5,319.4	8,355.4	5,360.1	64.9	75.8	-88.83	-1,171.1	-2,335.5	1,037.9	897.7	140.23	7.401		
8,421.9	5,319.0	8,374.9	5,359.8	65.4	76.3	-88.83	-1,171.1	-2,355.0	1,037.8	896.6	141.24	7.348		
8,500.0	5,317.8	8,446.9	5,358.8	67.3	78.1	-88.84	-1,171.3	-2,427.0	1,038.2	893.3	144.91	7.164		
8,580.2	5,316.5	8,530.6	5,356.9	69.3	80.1	-88.80	-1,170.9	-2,510.7	1,037.9	889.0	148.92	6.970		
8,600.0	5,316.2	8,546.4	5,356.5	69.8	80.5	-88.80	-1,171.0	-2,526.5	1,038.0	888.2	149.79	6.930		
8,700.0	5,314.7	8,640.1	5,354.8	72.2	82.8	-88.79	-1,171.9	-2,620.2	1,039.1	884.6	154.54	6.724		
8,800.0	5,313.1	8,766.5	5,352.8	74.6	85.9	-88.78	-1,171.3	-2,746.5	1,038.8	878.7	160.08	6.489		
8,900.0	5,311.5	8,859.6	5,351.7	77.1	88.2	-88.80	-1,170.1	-2,839.6	1,037.6	872.8	164.82	6.295		
8,951.5	5,310.7	8,903.5	5,351.3	78.3	89.2	-88.82	-1,169.9	-2,883.5	1,037.5	870.3	167.16	6.206		
9,000.0	5,309.9	8,952.0	5,350.8	79.5	90.4	-88.83	-1,169.9	-2,932.0	1,037.5	867.9	169.54	6.119		
9,100.0	5,308.4	9,052.0	5,349.7	82.0	92.9	-88.86	-1,169.7	-3,032.0	1,037.4	863.0	174.45	5.947		
9,200.0	5,306.8	9,152.0	5,348.7	84.4	95.3	-88.89	-1,169.5	-3,131.9	1,037.4	858.0	179.37	5.784		
9,300.0	5,305.2	9,252.0	5,347.6	86.9	97.8	-88.92	-1,169.4	-3,231.9	1,037.4	853.1	184.28	5.629		
9,400.0	5,303.7	9,352.0	5,346.6	89.3	100.2	-88.95	-1,169.2	-3,331.9	1,037.3	848.1	189.20	5.483		
9,500.0	5,302.1	9,452.0	5,345.5	91.8	102.7	-88.97	-1,169.0	-3,431.9	1,037.3	843.2	194.12	5.344		
9,600.0	5,300.5	9,552.0	5,344.5	94.2	105.2	-89.00	-1,168.8	-3,531.9	1,037.3	838.2	199.04	5.211		
9,700.0	5,299.0	9,652.0	5,343.4	96.7	107.6	-89.03	-1,168.7	-3,631.9	1,037.2	833.3	203.96	5.085		
9,800.0	5,297.4	9,752.0	5,342.4	99.2	110.1	-89.06	-1,168.5	-3,731.9	1,037.2	828.3	208.89	4.965		
9,900.0	5,295.8	9,852.0	5,341.3	101.6	112.5	-89.09	-1,168.3	-3,831.9	1,037.2	823.4	213.81	4.851		
10,000.0	5,294.2	9,952.0	5,340.3	104.1	115.0	-89.12	-1,168.1	-3,931.9	1,037.2	818.4	218.74	4.742		
10,100.0	5,292.7	10,052.0	5,339.2	106.5	117.4	-89.15	-1,168.0	-4,031.9	1,037.1	813.5	223.66	4.637		
10,200.0	5,291.1	10,152.0	5,338.2	109.0	119.9	-89.18	-1,167.8	-4,131.9	1,037.1	808.5	228.59	4.537		
10,300.0	5,289.5	10,251.9	5,337.1	111.5	122.4	-89.21	-1,167.6	-4,231.9	1,037.1	803.5	233.52	4.441		
10,400.0	5,288.0	10,351.9	5,336.1	113.9	124.8	-89.23	-1,167.5	-4,331.9	1,037.0	798.6	238.45	4.349		
10,500.0	5,286.4	10,451.9	5,335.1	116.4	127.3	-89.26	-1,167.3	-4,431.9	1,037.0	793.6	243.38	4.261		
10,600.0	5,284.8	10,551.9	5,334.0	118.8	129.8	-89.29	-1,167.1	-4,531.8	1,037.0	788.7	248.31	4.176		
10,627.8	5,284.4	10,579.7	5,333.7	119.5	130.4	-89.30	-1,167.1	-4,559.6	1,037.0	787.3	249.68	4.153		
10,645.4	5,284.1	10,581.1	5,333.7	120.0	130.5	-89.30	-1,167.1	-4,561.0	1,037.1	786.9	250.15	4.146 ES, SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Project:	San Juan County, NM	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Reference Site:	S28-T24N-R9W	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site Error:	0.0usft	North Reference:	True
Reference Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore:	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #13	Offset TVD Reference:	Offset Datum

Offset Design S28-T24N-R9W - Nageezi A28-2409 01H - Pilot Hole - Pilot Hole														Offset Site Error:	0.0 usft
Survey Program: 0-MWD														Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	1.0						
100.0	100.0	99.0	99.0	0.1	0.1	0.00	0.0	0.0	0.0	-0.3	0.30	0.000	Level 1		
200.0	200.0	199.0	199.0	0.3	0.3	0.00	0.0	0.0	0.0	-0.6	0.65	0.000	Level 1		
300.0	300.0	299.0	299.0	0.5	0.5	0.00	0.0	0.0	0.0	-1.0	0.99	0.000	Level 1		
400.0	400.0	399.0	399.0	0.7	0.7	0.00	0.0	0.0	0.0	-1.3	1.34	0.000	Level 1		
500.0	500.0	499.0	499.0	0.8	0.8	0.00	0.0	0.0	0.0	-1.7	1.69	0.000	Level 1		
600.0	600.0	599.0	599.0	1.0	1.0	0.00	0.0	0.0	0.0	-2.0	2.04	0.000	Level 1		
700.0	700.0	699.0	699.0	1.2	1.2	0.00	0.0	0.0	0.0	-2.4	2.39	0.000	Level 1		
800.0	800.0	799.0	799.0	1.4	1.4	0.00	0.0	0.0	0.0	-2.7	2.74	0.000	Level 1		
900.0	900.0	899.0	899.0	1.5	1.5	0.00	0.0	0.0	0.0	-3.1	3.09	0.000	Level 1		
1,000.0	1,000.0	999.0	999.0	1.7	1.7	0.00	0.0	0.0	0.0	-3.4	3.44	0.000	Level 1		
1,100.0	1,100.0	1,099.0	1,099.0	1.9	1.9	0.00	0.0	0.0	0.0	-3.8	3.79	0.000	Level 1		
1,200.0	1,200.0	1,199.0	1,199.0	2.1	2.1	0.00	0.0	0.0	0.0	-4.1	4.14	0.000	Level 1		
1,300.0	1,300.0	1,299.0	1,299.0	2.2	2.2	0.00	0.0	0.0	0.0	-4.5	4.49	0.000	Level 1		
1,400.0	1,400.0	1,399.0	1,399.0	2.4	2.4	0.00	0.0	0.0	0.0	-4.8	4.83	0.000	Level 1		
1,500.0	1,500.0	1,499.0	1,499.0	2.6	2.6	0.00	0.0	0.0	0.0	-5.2	5.18	0.000	Level 1		
1,600.0	1,600.0	1,599.0	1,599.0	2.8	2.8	0.00	0.0	0.0	0.0	-5.5	5.53	0.000	Level 1		
1,700.0	1,700.0	1,699.0	1,699.0	2.9	2.9	0.00	0.0	0.0	0.0	-5.9	5.88	0.000	Level 1		
1,800.0	1,800.0	1,799.0	1,799.0	3.1	3.1	0.00	0.0	0.0	0.0	-6.2	6.23	0.000	Level 1		
1,900.0	1,900.0	1,899.0	1,899.0	3.3	3.3	0.00	0.0	0.0	0.0	-6.6	6.58	0.000	Level 1		
2,000.0	2,000.0	1,999.0	1,999.0	3.5	3.5	0.00	0.0	0.0	0.0	-6.9	6.93	0.000	Level 1		
2,100.0	2,100.0	2,099.0	2,099.0	3.6	3.6	0.00	0.0	0.0	0.0	-7.3	7.28	0.000	Level 1, CC, ES, SF		
2,159.5	2,159.5	2,158.5	2,158.5	3.7	3.7	180.00	0.0	0.0	1.2	-6.2	7.48	0.165	Level 1		
2,200.0	2,199.9	2,198.9	2,198.9	3.8	3.8	180.00	0.0	0.0	3.5	-4.1	7.61	0.458	Level 1		
2,300.0	2,299.4	2,298.3	2,298.3	4.0	4.0	180.00	0.0	0.0	13.9	6.0	7.92	1.759			
2,400.0	2,397.8	2,396.8	2,396.8	4.2	4.2	180.00	0.0	0.0	31.3	23.1	8.21	3.814			
2,500.0	2,494.8	2,493.8	2,493.8	4.5	4.3	180.00	0.0	0.0	55.5	47.0	8.46	6.561			
2,600.0	2,589.9	2,588.9	2,588.9	4.9	4.5	180.00	0.0	0.0	86.4	77.7	8.68	9.957			
2,687.6	2,671.2	2,670.2	2,670.2	5.3	4.6	180.00	0.0	0.0	118.8	110.0	8.84	13.441			
2,700.0	2,682.6	2,681.6	2,681.6	5.4	4.7	180.00	0.0	0.0	123.8	114.9	8.88	13.936			
2,800.0	2,774.3	2,773.3	2,773.3	5.9	4.8	180.00	0.0	0.0	163.7	154.4	9.22	17.757			
2,900.0	2,866.0	2,865.0	2,865.0	6.5	5.0	180.00	0.0	0.0	203.5	194.0	9.55	21.311			
3,000.0	2,957.7	2,956.7	2,956.7	7.1	5.1	180.00	0.0	0.0	243.4	233.5	9.88	24.626			
3,100.0	3,049.4	3,048.4	3,048.4	7.8	5.3	180.00	0.0	0.0	283.3	273.1	10.22	27.725			
3,200.0	3,141.1	3,140.1	3,140.1	8.4	5.5	180.00	0.0	0.0	323.2	312.6	10.55	30.629			
3,300.0	3,232.9	3,231.8	3,231.8	9.1	5.6	180.00	0.0	0.0	363.1	352.2	10.88	33.357			
3,400.0	3,324.6	3,323.5	3,323.5	9.8	5.8	180.00	0.0	0.0	402.9	391.7	11.22	35.923			
3,500.0	3,416.3	3,415.2	3,415.2	10.5	5.9	180.00	0.0	0.0	442.8	431.3	11.55	38.341			
3,600.0	3,508.0	3,507.0	3,507.0	11.2	6.1	180.00	0.0	0.0	482.7	470.8	11.88	40.626			
3,700.0	3,599.7	3,598.7	3,598.7	12.0	6.3	180.00	0.0	0.0	522.6	510.4	12.21	42.786			
3,800.0	3,691.4	3,690.4	3,690.4	12.7	6.4	180.00	0.0	0.0	562.5	549.9	12.55	44.833			
3,900.0	3,783.1	3,782.1	3,782.1	13.4	6.6	180.00	0.0	0.0	602.3	589.5	12.88	46.774			
4,000.0	3,874.8	3,873.8	3,873.8	14.1	6.7	180.00	0.0	0.0	642.2	629.0	13.21	48.619			
4,100.0	3,966.5	3,965.5	3,965.5	14.9	6.9	180.00	0.0	0.0	682.1	668.6	13.54	50.374			
4,191.9	4,050.8	4,049.8	4,049.8	15.6	7.0	180.00	0.0	0.0	718.8	704.9	13.85	51.913			
4,200.0	4,058.2	4,057.2	4,057.2	15.6	7.1	180.00	0.0	0.0	722.0	708.1	13.89	51.982			
4,300.0	4,151.4	4,150.4	4,150.4	16.2	7.2	180.00	0.0	0.0	758.1	743.7	14.40	52.630			
4,400.0	4,246.9	4,245.9	4,245.9	16.7	7.4	180.00	0.0	0.0	787.6	772.7	14.88	52.924			
4,500.0	4,344.3	4,343.3	4,343.3	17.1	7.6	180.00	0.0	0.0	810.4	795.1	15.32	52.902			
4,600.0	4,443.0	4,442.0	4,442.0	17.4	7.7	180.00	0.0	0.0	826.4	810.6	15.71	52.594			
4,700.0	4,542.6	4,541.5	4,541.5	17.6	7.9	180.00	0.0	0.0	835.4	819.3	16.06	52.023			
4,779.5	4,622.0	4,621.0	4,621.0	17.6	8.0	-80.50	0.0	0.0	837.6	811.9	25.66	32.644			

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Project:	San Juan County, NM	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Reference Site:	S28-T24N-R9W	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site Error:	0.0usft	North Reference:	True
Reference Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #13	Offset TVD Reference:	Offset Datum

Offset Design S28-T24N-R9W - Nageezi A28-2409 01H - Pilot Hole - Pilot Hole													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance		Total		Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor		
4,800.0	4,642.5	4,641.5	4,641.5	17.6	8.1	-80.50	0.0	0.0	837.6	811.9	25.71	32.577		
4,879.7	4,722.3	4,721.2	4,721.2	17.7	8.2	-80.50	0.0	0.0	837.6	811.7	25.92	32.319		
4,900.0	4,742.5	4,741.5	4,741.5	17.7	8.3	9.42	0.0	0.0	837.3	820.6	16.68	50.185		
4,950.0	4,792.4	4,791.4	4,791.4	17.7	8.3	9.51	0.0	0.0	833.8	817.0	16.72	49.855		
5,000.0	4,841.8	4,840.8	4,840.8	17.6	8.4	9.71	0.0	0.0	826.4	809.7	16.70	49.486		
5,050.0	4,890.5	4,889.5	4,889.5	17.4	8.5	10.02	0.0	0.0	815.3	798.6	16.61	49.071		
5,100.0	4,938.2	4,937.1	4,937.1	17.2	8.6	10.46	0.0	0.0	800.4	783.9	16.47	48.595		
5,150.0	4,984.5	4,983.5	4,983.5	16.9	8.7	11.05	0.0	0.0	781.9	765.6	16.28	48.039		
5,200.0	5,029.2	5,028.2	5,028.2	16.6	8.8	11.81	0.0	0.0	759.9	743.8	16.04	47.375		
5,250.0	5,072.0	5,071.0	5,071.0	16.2	8.8	12.80	0.0	0.0	734.5	718.7	15.77	46.562		
5,300.0	5,112.7	5,111.6	5,111.6	15.7	8.9	14.06	0.0	0.0	706.0	690.5	15.50	45.549		
5,350.0	5,150.9	5,149.9	5,149.9	15.3	9.0	15.67	0.0	0.0	674.4	659.2	15.24	44.263		
5,400.0	5,186.5	5,185.5	5,185.5	14.7	9.0	17.75	0.0	0.0	640.1	625.1	15.02	42.613		
5,450.0	5,219.3	5,218.2	5,218.2	14.2	9.1	20.46	0.0	0.0	603.3	588.4	14.90	40.487		
5,500.0	5,248.9	5,247.9	5,247.9	13.7	9.1	24.01	0.0	0.0	564.2	549.2	14.94	37.771		
5,550.0	5,275.4	5,274.4	5,274.4	13.1	9.2	28.72	0.0	0.0	523.1	507.9	15.21	34.388		
5,600.0	5,298.4	5,297.4	5,297.4	12.7	9.2	34.96	0.0	0.0	480.4	464.6	15.82	30.376		
5,650.0	5,317.9	5,316.9	5,316.9	12.2	9.3	43.10	0.0	0.0	436.5	419.7	16.80	25.990		
5,700.0	5,333.7	5,332.7	5,332.7	11.9	9.3	53.26	0.0	0.0	391.8	373.7	18.06	21.699		
5,750.0	5,345.7	5,344.7	5,344.7	11.6	9.3	64.80	0.0	0.0	346.7	327.4	19.29	17.975		
5,800.0	5,353.9	5,352.9	5,352.9	11.4	9.3	76.20	0.0	0.0	302.1	281.9	20.15	14.990		
5,850.0	5,358.2	5,357.2	5,357.2	11.4	9.3	85.72	0.0	0.0	258.7	238.1	20.57	12.576		
5,889.7	5,358.8	5,357.8	5,357.8	11.4	9.3	91.18	0.0	0.0	225.9	205.2	20.73	10.901		
5,889.7	5,358.8	5,357.8	5,357.8	11.4	9.3	91.18	0.0	0.0	225.9	205.2	20.73	10.901		
5,900.0	5,358.6	5,357.6	5,357.6	11.5	9.3	91.11	0.0	0.0	217.9	197.1	20.77	10.490		
6,000.0	5,357.1	5,356.1	5,356.1	12.1	9.3	90.46	0.0	0.0	153.6	132.1	21.45	7.160		
6,069.4	5,356.0	5,355.0	5,355.0	12.9	9.3	90.00	0.0	0.0	137.0	114.8	22.22	6.164		
6,100.0	5,355.5	5,354.5	5,354.5	13.3	9.3	89.80	0.0	0.0	140.3	117.8	22.56	6.221		
6,200.0	5,353.9	5,352.9	5,352.9	14.8	9.3	89.14	0.0	0.0	189.2	165.2	24.00	7.883		
6,300.0	5,352.4	5,351.3	5,351.3	16.5	9.3	88.49	0.0	0.0	268.1	242.5	25.69	10.437		
6,400.0	5,350.8	5,349.8	5,349.8	18.4	9.3	87.83	0.0	0.0	357.8	330.2	27.56	12.983		
6,500.0	5,349.2	5,348.2	5,348.2	20.4	9.3	87.17	0.0	0.0	451.8	422.2	29.54	15.291		
6,600.0	5,347.6	5,346.6	5,346.6	22.5	9.3	86.52	0.0	0.0	547.9	516.3	31.62	17.326		
6,700.0	5,346.1	5,345.1	5,345.1	24.6	9.3	85.86	0.0	0.0	645.2	611.4	33.76	19.110		
6,800.0	5,344.5	5,343.5	5,343.5	26.8	9.3	85.21	0.0	0.0	743.2	707.2	35.95	20.674		
6,900.0	5,342.9	5,341.9	5,341.9	29.1	9.3	84.56	0.0	0.0	841.7	803.5	38.17	22.053		
7,000.0	5,341.4	5,340.3	5,340.3	31.4	9.3	83.91	0.0	0.0	940.5	900.1	40.41	23.274		
7,100.0	5,339.8	5,338.8	5,338.8	33.7	9.3	83.26	0.0	0.0	1,039.5	996.8	42.66	24.364		
7,200.0	5,338.2	5,337.2	5,337.2	36.0	9.3	82.61	0.0	0.0	1,138.7	1,093.8	44.93	25.343		
7,300.0	5,336.6	5,335.6	5,335.6	38.4	9.3	81.97	0.0	0.0	1,238.0	1,190.8	47.20	26.228		
7,400.0	5,335.1	5,334.1	5,334.1	40.8	9.3	81.33	0.0	0.0	1,337.4	1,287.9	49.47	27.033		
7,500.0	5,333.5	5,332.5	5,332.5	43.1	9.3	80.68	0.0	0.0	1,436.9	1,385.2	51.74	27.770		
7,600.0	5,331.9	5,330.9	5,330.9	45.5	9.3	80.05	0.0	0.0	1,536.5	1,482.5	54.01	28.448		
7,700.0	5,330.4	5,329.4	5,329.4	47.9	9.3	79.41	0.0	0.0	1,636.1	1,579.8	56.27	29.076		
7,800.0	5,328.8	5,327.8	5,327.8	50.3	9.3	78.78	0.0	0.0	1,735.8	1,677.2	58.52	29.661		
7,900.0	5,327.2	5,326.2	5,326.2	52.7	9.3	78.15	0.0	0.0	1,835.4	1,774.7	60.76	30.208		
8,000.0	5,325.7	5,324.6	5,324.6	55.2	9.3	77.52	0.0	0.0	1,935.2	1,872.2	62.99	30.722		
8,100.0	5,324.1	5,323.1	5,323.1	57.6	9.3	76.89	0.0	0.0	2,034.9	1,969.7	65.21	31.208		
8,200.0	5,322.5	5,321.5	5,321.5	60.0	9.3	76.27	0.0	0.0	2,134.7	2,067.3	67.41	31.669		
8,300.0	5,320.9	5,319.9	5,319.9	62.4	9.3	75.65	0.0	0.0	2,234.5	2,164.9	69.59	32.108		
8,400.0	5,319.4	5,318.4	5,318.4	64.9	9.3	75.04	0.0	0.0	2,334.3	2,262.5	71.76	32.528		
8,500.0	5,317.8	5,316.8	5,316.8	67.3	9.3	74.43	0.0	0.0	2,434.1	2,360.2	73.92	32.931		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Project:	San Juan County, NM	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Reference Site:	S28-T24N-R9W	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site Error:	0.0usft	North Reference:	True
Reference Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	H2	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #13	Offset TVD Reference:	Offset Datum

Offset Design S28-T24N-R9W - Nageezi A28-2409 01H - Pilot Hole - Pilot Hole													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference	Offset		Semi Major Axis		Distance		Total		Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor		
8,600.0	5,316.2	5,315.2	5,315.2	69.8	9.3	73.82	0.0	0.0	2,533.9	2,457.9	76.05	33.319		
8,700.0	5,314.7	5,313.6	5,313.6	72.2	9.2	73.22	0.0	0.0	2,633.8	2,555.6	78.17	33.695		
8,800.0	5,313.1	5,312.1	5,312.1	74.6	9.2	72.61	0.0	0.0	2,733.7	2,653.4	80.26	34.059		
8,900.0	5,311.5	5,310.5	5,310.5	77.1	9.2	72.02	0.0	0.0	2,833.5	2,751.2	82.34	34.412		
9,000.0	5,309.9	5,308.9	5,308.9	79.5	9.2	71.43	0.0	0.0	2,933.4	2,849.0	84.40	34.757		
9,100.0	5,308.4	5,307.4	5,307.4	82.0	9.2	70.84	0.0	0.0	3,033.3	2,946.8	86.43	35.094		
9,200.0	5,306.8	5,305.8	5,305.8	84.4	9.2	70.25	0.0	0.0	3,133.2	3,044.7	88.45	35.424		
9,300.0	5,305.2	5,304.2	5,304.2	86.9	9.2	69.67	0.0	0.0	3,233.1	3,142.6	90.44	35.749		
9,400.0	5,303.7	5,302.6	5,302.6	89.3	9.2	69.10	0.0	0.0	3,333.0	3,240.6	92.41	36.067		
9,500.0	5,302.1	5,301.1	5,301.1	91.8	9.2	68.53	0.0	0.0	3,432.9	3,338.5	94.36	36.382		
9,600.0	5,300.5	5,299.5	5,299.5	94.2	9.2	67.96	0.0	0.0	3,532.8	3,436.5	96.28	36.692		
9,700.0	5,299.0	5,297.9	5,297.9	96.7	9.2	67.40	0.0	0.0	3,632.7	3,534.5	98.18	36.999		
9,800.0	5,297.4	5,296.4	5,296.4	99.2	9.2	66.84	0.0	0.0	3,732.6	3,632.5	100.06	37.303		
9,900.0	5,295.8	5,294.8	5,294.8	101.6	9.2	66.29	0.0	0.0	3,832.5	3,730.6	101.92	37.604		
10,000.0	5,294.2	5,293.2	5,293.2	104.1	9.2	65.74	0.0	0.0	3,932.5	3,828.7	103.75	37.903		
10,100.0	5,292.7	5,291.7	5,291.7	106.5	9.2	65.20	0.0	0.0	4,032.4	3,926.8	105.56	38.201		
10,200.0	5,291.1	5,290.1	5,290.1	109.0	9.2	64.66	0.0	0.0	4,132.3	4,025.0	107.34	38.497		
10,300.0	5,289.5	5,288.5	5,288.5	111.5	9.2	64.12	0.0	0.0	4,232.3	4,123.1	109.10	38.792		
10,400.0	5,288.0	5,286.9	5,286.9	113.9	9.2	63.59	0.0	0.0	4,332.2	4,221.3	110.84	39.086		
10,500.0	5,286.4	5,285.4	5,285.4	116.4	9.2	63.07	0.0	0.0	4,432.1	4,319.6	112.55	39.379		
10,600.0	5,284.8	5,283.8	5,283.8	118.8	9.2	62.55	0.0	0.0	4,532.1	4,417.8	114.24	39.672		
10,645.4	5,284.1	5,283.1	5,283.1	120.0	9.2	62.31	0.0	0.0	4,577.5	4,462.5	115.00	39.805		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Project:	San Juan County, NM	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Reference Site:	S28-T24N-R9W	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site Error:	0.0usft	North Reference:	True
Reference Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #13	Offset TVD Reference:	Offset Datum

Offset Design S28-T24N-R9W - Nageezi A28-2409 02H - HZ - Plan #9													Offset Site Error:
Survey Program: 0-MWD													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	109.81	-10.2	28.3	30.1				
100.0	100.0	100.0	100.0	0.1	0.1	109.81	-10.2	28.3	30.1	29.8	0.30	101.352	
200.0	200.0	200.0	200.0	0.3	0.3	109.81	-10.2	28.3	30.1	29.4	0.65	46.567	
300.0	300.0	300.0	300.0	0.5	0.5	109.81	-10.2	28.3	30.1	29.1	0.99	30.228	
400.0	400.0	400.0	400.0	0.7	0.7	109.81	-10.2	28.3	30.1	28.7	1.34	22.376	
500.0	500.0	500.0	500.0	0.8	0.8	109.81	-10.2	28.3	30.1	28.4	1.69	17.763	
600.0	600.0	600.0	600.0	1.0	1.0	109.81	-10.2	28.3	30.1	28.0	2.04	14.726	
700.0	700.0	700.0	700.0	1.2	1.2	109.81	-10.2	28.3	30.1	27.7	2.39	12.577	
800.0	800.0	800.0	800.0	1.4	1.4	109.81	-10.2	28.3	30.1	27.3	2.74	10.974	
900.0	900.0	900.0	900.0	1.5	1.5	109.81	-10.2	28.3	30.1	27.0	3.09	9.734	
1,000.0	1,000.0	1,000.0	1,000.0	1.7	1.7	109.81	-10.2	28.3	30.1	26.6	3.44	8.746	
1,100.0	1,100.0	1,100.0	1,100.0	1.9	1.9	109.81	-10.2	28.3	30.1	26.3	3.79	7.940	
1,200.0	1,200.0	1,200.0	1,200.0	2.1	2.1	109.81	-10.2	28.3	30.1	25.9	4.14	7.270	
1,300.0	1,300.0	1,300.0	1,300.0	2.2	2.2	109.81	-10.2	28.3	30.1	25.6	4.49	6.704	
1,400.0	1,400.0	1,400.0	1,400.0	2.4	2.4	109.81	-10.2	28.3	30.1	25.2	4.83	6.220	
1,500.0	1,500.0	1,500.0	1,500.0	2.6	2.6	109.81	-10.2	28.3	30.1	24.9	5.18	5.801	
1,600.0	1,600.0	1,600.0	1,600.0	2.8	2.8	109.81	-10.2	28.3	30.1	24.5	5.53	5.435	
1,700.0	1,700.0	1,700.0	1,700.0	2.9	2.9	109.81	-10.2	28.3	30.1	24.2	5.88	5.113	
1,800.0	1,800.0	1,800.0	1,800.0	3.1	3.1	109.81	-10.2	28.3	30.1	23.8	6.23	4.826	
1,900.0	1,900.0	1,900.0	1,900.0	3.3	3.3	109.81	-10.2	28.3	30.1	23.5	6.58	4.570	
2,000.0	2,000.0	2,000.0	2,000.0	3.5	3.5	109.81	-10.2	28.3	30.1	23.1	6.93	4.340 CC, ES	
2,100.0	2,100.0	2,098.0	2,097.9	3.6	3.6	112.20	-12.5	30.7	33.2	25.9	7.28	4.566	
2,200.0	2,199.9	2,195.3	2,194.7	3.8	3.8	19.14	-19.5	37.8	39.6	32.0	7.61	5.200	
2,300.0	2,299.4	2,291.9	2,289.9	4.0	4.0	28.51	-30.8	49.6	46.8	38.8	7.93	5.895	
2,400.0	2,397.8	2,387.6	2,382.9	4.2	4.3	38.93	-46.5	65.7	56.1	47.8	8.27	6.779	
2,500.0	2,494.8	2,482.1	2,473.1	4.5	4.6	48.85	-66.2	86.0	68.6	59.9	8.69	7.886	
2,600.0	2,589.9	2,575.4	2,560.0	4.9	5.1	57.36	-89.6	110.1	84.8	75.5	9.28	9.136	
2,687.6	2,671.2	2,658.8	2,636.2	5.3	5.5	63.95	-113.3	134.5	101.5	91.5	9.99	10.159	
2,700.0	2,682.6	2,670.8	2,647.2	5.4	5.6	64.97	-116.7	138.0	103.9	93.8	10.11	10.272	
2,800.0	2,774.3	2,767.9	2,735.7	5.9	6.1	71.74	-144.6	166.7	123.9	112.7	11.15	11.111	
2,900.0	2,866.0	2,865.0	2,824.2	6.5	6.8	76.61	-172.4	195.3	145.1	132.8	12.28	11.817	
3,000.0	2,957.7	2,962.1	2,912.7	7.1	7.4	80.23	-200.2	224.0	167.0	153.6	13.47	12.399	
3,100.0	3,049.4	3,059.2	3,001.1	7.8	8.0	83.01	-228.0	252.6	189.5	174.8	14.71	12.878	
3,200.0	3,141.1	3,156.2	3,089.0	8.4	8.7	85.20	-255.8	281.3	212.3	196.3	15.99	13.275	
3,300.0	3,232.9	3,253.3	3,178.1	9.1	9.4	86.97	-283.6	309.9	235.3	218.0	17.29	13.605	
3,400.0	3,324.6	3,350.4	3,266.6	9.8	10.1	88.42	-311.4	338.6	258.5	239.9	18.62	13.884	
3,500.0	3,416.3	3,447.5	3,355.1	10.5	10.7	89.63	-339.3	367.2	281.8	261.9	19.96	14.120	
3,600.0	3,508.0	3,544.6	3,443.6	11.2	11.4	90.65	-367.1	395.9	305.3	284.0	21.31	14.322	
3,700.0	3,599.7	3,641.7	3,532.1	12.0	12.2	91.54	-394.9	424.5	328.8	306.1	22.68	14.498	
3,800.0	3,691.4	3,738.7	3,620.6	12.7	12.9	92.30	-422.7	453.2	352.4	328.3	24.05	14.650	
3,900.0	3,783.1	3,835.8	3,709.1	13.4	13.6	92.97	-450.5	481.8	376.0	350.6	25.43	14.784	
4,000.0	3,874.8	3,932.9	3,797.5	14.1	14.3	93.55	-478.3	510.5	399.7	372.9	26.82	14.902	
4,100.0	3,966.5	4,030.0	3,886.0	14.9	15.0	94.08	-506.1	539.1	423.4	395.2	28.21	15.008	
4,191.9	4,050.8	4,119.2	3,967.4	15.6	15.7	94.51	-531.7	565.4	445.2	415.7	29.49	15.095	
4,200.0	4,058.2	4,127.1	3,974.5	15.6	15.7	94.62	-534.0	567.8	447.1	417.5	29.61	15.098	
4,300.0	4,151.4	4,232.1	4,070.7	16.2	16.5	95.56	-563.4	598.1	470.2	439.2	30.96	15.188	
4,400.0	4,246.9	4,347.9	4,179.5	16.7	17.1	96.21	-590.8	626.3	489.5	457.4	32.10	15.248	
4,500.0	4,344.3	4,465.4	4,292.9	17.1	17.6	96.72	-612.3	648.5	504.4	471.4	33.00	15.284	
4,600.0	4,443.0	4,584.3	4,409.8	17.4	18.0	97.09	-627.3	663.9	514.8	481.1	33.65	15.296	
4,700.0	4,542.6	4,703.9	4,528.8	17.6	18.2	97.33	-635.6	672.5	520.5	486.4	34.05	15.284	
4,779.5	4,622.0	4,797.2	4,622.0	17.6	18.3	-163.07	-637.3	674.2	521.7	502.0	19.66	26.540	
4,800.0	4,642.5	4,817.7	4,642.5	17.6	18.3	-163.07	-637.3	674.2	521.7	502.0	19.72	26.457	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Project:	San Juan County, NM	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Reference Site:	S28-T24N-R9W	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site Error:	0.0usft	North Reference:	True
Reference Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #13	Offset TVD Reference:	Offset Datum

Offset Design S28-T24N-R9W - Nageezi A28-2409 02H - Hz - Plan #9														Offset Site Error:	0.0 usft
Survey Program: 0-MWD														Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
4,849.0	4,691.5	4,866.7	4,691.5	17.7	18.4	-163.07	-637.3	674.2	521.7	501.8	19.87	26.260			
4,879.7	4,722.3	4,895.4	4,720.2	17.7	18.4	-163.07	-637.3	674.1	521.7	501.8	19.96	26.142			
4,900.0	4,742.5	4,911.8	4,736.6	17.7	18.4	-73.13	-637.3	673.7	521.8	487.4	34.39	15.174			
4,939.2	4,781.7	4,943.4	4,768.2	17.7	18.4	-73.12	-637.3	671.7	521.8	487.5	34.33	15.199			
4,950.0	4,792.4	4,950.0	4,774.7	17.7	18.4	-73.12	-637.3	671.0	521.8	487.5	34.31	15.207			
5,000.0	4,841.8	4,992.5	4,816.9	17.6	18.3	-73.21	-637.3	665.4	521.6	487.5	34.10	15.295			
5,050.0	4,890.5	5,033.0	4,856.5	17.4	18.2	-73.38	-637.3	657.5	521.1	487.4	33.77	15.433			
5,100.0	4,938.2	5,073.5	4,895.7	17.2	18.1	-73.62	-637.3	647.0	520.5	487.2	33.31	15.625			
5,150.0	4,984.5	5,114.1	4,934.1	16.9	18.0	-73.95	-637.2	634.0	519.7	486.9	32.74	15.872			
5,200.0	5,029.2	5,154.9	4,971.8	16.6	17.9	-74.36	-637.2	618.5	518.6	486.6	32.06	16.179			
5,250.0	5,072.0	5,200.0	5,012.3	16.2	17.7	-74.90	-637.2	598.6	517.5	486.2	31.24	16.567			
5,300.0	5,112.7	5,237.0	5,044.4	15.7	17.5	-75.42	-637.2	580.2	516.1	485.7	30.37	16.992			
5,350.0	5,150.9	5,278.3	5,078.9	15.3	17.3	-76.07	-637.1	557.5	514.7	485.3	29.41	17.500			
5,400.0	5,186.5	5,319.9	5,112.1	14.7	17.0	-76.79	-637.1	532.4	513.1	484.8	28.39	18.075			
5,450.0	5,219.3	5,361.9	5,143.8	14.2	16.8	-77.58	-637.0	504.9	511.5	484.2	27.34	18.714			
5,500.0	5,248.9	5,404.1	5,173.8	13.7	16.5	-78.44	-637.0	475.2	509.9	483.6	26.28	19.406			
5,550.0	5,275.4	5,450.0	5,204.1	13.1	16.3	-79.43	-636.9	440.8	508.3	483.1	25.22	20.156			
5,600.0	5,298.4	5,489.8	5,228.4	12.7	16.1	-80.36	-636.9	409.2	506.7	482.4	24.29	20.860			
5,650.0	5,317.9	5,533.4	5,252.6	12.2	15.8	-81.41	-636.8	373.0	505.2	481.7	23.45	21.541			
5,700.0	5,333.7	5,577.4	5,274.5	11.9	15.6	-82.52	-636.8	334.8	503.8	481.0	22.78	22.119			
5,750.0	5,345.7	5,622.0	5,293.9	11.6	15.4	-83.67	-636.7	294.7	502.5	480.2	22.30	22.530			
5,800.0	5,353.9	5,667.2	5,310.7	11.4	15.3	-84.87	-636.7	252.7	501.4	479.3	22.07	22.718			
5,850.0	5,358.2	5,713.1	5,324.6	11.4	15.2	-86.10	-636.6	209.1	500.5	478.4	22.10	22.649			
5,889.7	5,358.8	5,750.0	5,333.5	11.4	15.2	-87.11	-636.5	173.2	500.0	477.7	22.30	22.420			
5,889.7	5,358.8	5,750.0	5,333.5	11.4	15.2	-87.11	-636.5	173.2	500.0	477.7	22.30	22.420			
5,900.0	5,358.6	5,759.6	5,335.5	11.5	15.2	-87.35	-636.5	163.8	499.9	477.5	22.39	22.322			
6,000.0	5,357.1	5,856.2	5,347.4	12.1	15.3	-88.89	-636.4	68.0	499.4	475.7	23.75	21.028			
6,055.7	5,356.2	5,911.3	5,347.8	12.8	15.5	-89.04	-636.3	13.0	499.4	474.4	24.97	20.000			
6,100.0	5,355.5	5,955.6	5,347.1	13.3	15.8	-89.04	-636.2	-31.4	499.4	473.3	26.05	19.173			
6,200.0	5,353.9	6,055.6	5,345.5	14.8	16.9	-89.04	-636.1	-131.4	499.4	470.4	28.98	17.233			
6,300.0	5,352.4	6,155.6	5,344.0	16.5	18.3	-89.04	-635.9	-231.4	499.4	467.0	32.40	15.411			
6,400.0	5,350.8	6,255.6	5,342.4	18.4	20.0	-89.04	-635.8	-331.3	499.4	463.2	36.18	13.801			
6,500.0	5,349.2	6,355.6	5,340.8	20.4	21.9	-89.04	-635.6	-431.3	499.4	459.1	40.22	12.416			
6,600.0	5,347.6	6,455.6	5,339.3	22.5	23.8	-89.04	-635.5	-531.3	499.4	454.9	44.44	11.237			
6,700.0	5,346.1	6,555.6	5,337.7	24.6	25.9	-89.04	-635.3	-631.3	499.4	450.6	48.80	10.233			
6,800.0	5,344.5	6,655.6	5,336.1	26.8	28.0	-89.04	-635.2	-731.3	499.4	446.1	53.26	9.376			
6,900.0	5,342.9	6,755.6	5,334.5	29.1	30.2	-89.04	-635.0	-831.3	499.4	441.6	57.80	8.639			
7,000.0	5,341.4	6,855.6	5,333.0	31.4	32.4	-89.04	-634.9	-931.3	499.4	437.0	62.40	8.002			
7,100.0	5,339.8	6,955.6	5,331.4	33.7	34.7	-89.04	-634.7	-1,031.3	499.4	432.3	67.06	7.447			
7,200.0	5,338.2	7,055.6	5,329.8	36.0	36.9	-89.04	-634.6	-1,131.2	499.4	427.6	71.75	6.960			
7,300.0	5,336.6	7,155.6	5,328.3	38.4	39.3	-89.04	-634.4	-1,231.2	499.4	422.9	76.47	6.530			
7,400.0	5,335.1	7,255.6	5,326.7	40.8	41.6	-89.04	-634.3	-1,331.2	499.4	418.1	81.22	6.148			
7,500.0	5,333.5	7,355.6	5,325.1	43.1	43.9	-89.04	-634.1	-1,431.2	499.4	413.4	85.99	5.807			
7,600.0	5,331.9	7,455.6	5,323.5	45.5	46.3	-89.04	-634.0	-1,531.2	499.4	408.6	90.78	5.500			
7,700.0	5,330.4	7,555.6	5,322.0	47.9	48.6	-89.04	-633.8	-1,631.2	499.4	403.8	95.59	5.224			
7,800.0	5,328.8	7,655.6	5,320.4	50.3	51.0	-89.04	-633.7	-1,731.2	499.3	398.9	100.41	4.973			
7,900.0	5,327.2	7,755.6	5,318.8	52.7	53.4	-89.04	-633.5	-1,831.2	499.3	394.1	105.24	4.745			
8,000.0	5,325.7	7,855.6	5,317.3	55.2	55.8	-89.04	-633.4	-1,931.1	499.3	389.3	110.09	4.536			
8,100.0	5,324.1	7,955.6	5,315.7	57.6	58.2	-89.04	-633.2	-2,031.1	499.3	384.4	114.94	4.344			
8,200.0	5,322.5	8,055.6	5,314.1	60.0	60.6	-89.04	-633.1	-2,131.1	499.3	379.5	119.80	4.168			
8,300.0	5,320.9	8,155.6	5,312.5	62.4	63.0	-89.04	-632.9	-2,231.1	499.3	374.7	124.66	4.005			
8,400.0	5,319.4	8,255.6	5,311.0	64.9	65.4	-89.04	-632.8	-2,331.1	499.3	369.8	129.54	3.855			

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Nageezi A28-2409 01H
Project:	San Juan County, NM	TVD Reference:	KB @ 6878.0usft (Aztec 920)
Reference Site:	S28-T24N-R9W	MD Reference:	KB @ 6878.0usft (Aztec 920)
Site Error:	0.0usft	North Reference:	True
Reference Well:	Nageezi A28-2409 01H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #13	Offset TVD Reference:	Offset Datum

Offset Design: S28-T24N-R9W - Nageezi A28-2409 02H - Hz - Plan #9													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning:	
8,500.0	5,317.8	8,355.6	5,309.4	67.3	67.8	-89.04	-632.6	-2,431.1	499.3	364.9	134.42	3.715		
8,600.0	5,316.2	8,455.6	5,307.8	69.8	70.2	-89.04	-632.5	-2,531.1	499.3	360.0	139.30	3.585		
8,700.0	5,314.7	8,555.6	5,306.3	72.2	72.7	-89.04	-632.3	-2,631.1	499.3	355.1	144.19	3.463		
8,800.0	5,313.1	8,655.6	5,304.7	74.6	75.1	-89.04	-632.2	-2,731.0	499.3	350.3	149.08	3.350		
8,900.0	5,311.5	8,755.6	5,303.1	77.1	77.5	-89.04	-632.0	-2,831.0	499.3	345.4	153.97	3.243		
9,000.0	5,309.9	8,855.6	5,301.5	79.5	80.0	-89.04	-631.9	-2,931.0	499.3	340.5	158.87	3.143		
9,100.0	5,308.4	8,955.6	5,300.0	82.0	82.4	-89.04	-631.7	-3,031.0	499.3	335.6	163.77	3.049		
9,200.0	5,306.8	9,055.6	5,298.4	84.4	84.8	-89.03	-631.6	-3,131.0	499.3	330.7	168.67	2.960		
9,300.0	5,305.2	9,155.6	5,296.8	86.9	87.3	-89.03	-631.4	-3,231.0	499.3	325.7	173.58	2.877		
9,400.0	5,303.7	9,255.6	5,295.3	89.3	89.7	-89.03	-631.3	-3,331.0	499.3	320.8	178.49	2.798		
9,500.0	5,302.1	9,355.6	5,293.7	91.8	92.2	-89.03	-631.1	-3,431.0	499.3	315.9	183.40	2.723		
9,600.0	5,300.5	9,455.6	5,292.1	94.2	94.6	-89.03	-631.0	-3,530.9	499.3	311.0	188.31	2.652		
9,700.0	5,299.0	9,555.6	5,290.5	96.7	97.0	-89.03	-630.8	-3,630.9	499.3	306.1	193.23	2.584		
9,800.0	5,297.4	9,655.6	5,289.0	99.2	99.5	-89.03	-630.7	-3,730.9	499.3	301.2	198.14	2.520		
9,900.0	5,295.8	9,755.6	5,287.4	101.6	101.9	-89.03	-630.5	-3,830.9	499.3	296.3	203.06	2.459		
10,000.0	5,294.2	9,855.6	5,285.8	104.1	104.4	-89.03	-630.4	-3,930.9	499.3	291.3	207.98	2.401		
10,100.0	5,292.7	9,955.6	5,284.3	106.5	106.8	-89.03	-630.2	-4,030.9	499.3	286.4	212.90	2.345		
10,200.0	5,291.1	10,055.6	5,282.7	109.0	109.3	-89.03	-630.1	-4,130.9	499.3	281.5	217.82	2.292		
10,300.0	5,289.5	10,155.6	5,281.1	111.5	111.8	-89.03	-629.9	-4,230.9	499.3	276.6	222.74	2.242		
10,400.0	5,288.0	10,255.6	5,279.5	113.9	114.2	-89.03	-629.8	-4,330.8	499.3	271.6	227.67	2.193		
10,500.0	5,286.4	10,355.6	5,278.0	116.4	116.7	-89.03	-629.6	-4,430.8	499.3	266.7	232.59	2.147		
10,600.0	5,284.8	10,455.6	5,276.4	118.8	119.1	-89.03	-629.5	-4,530.8	499.3	261.8	237.52	2.102		
10,632.3	5,284.3	10,487.9	5,275.9	119.6	119.9	-89.03	-629.4	-4,563.1	499.3	260.2	239.11	2.088		
10,645.4	5,284.1	10,493.4	5,275.8	120.0	120.0	-89.03	-629.4	-4,568.6	499.4	259.8	239.57	2.084 SF		

Cathedral Energy Services

Anticollision Report

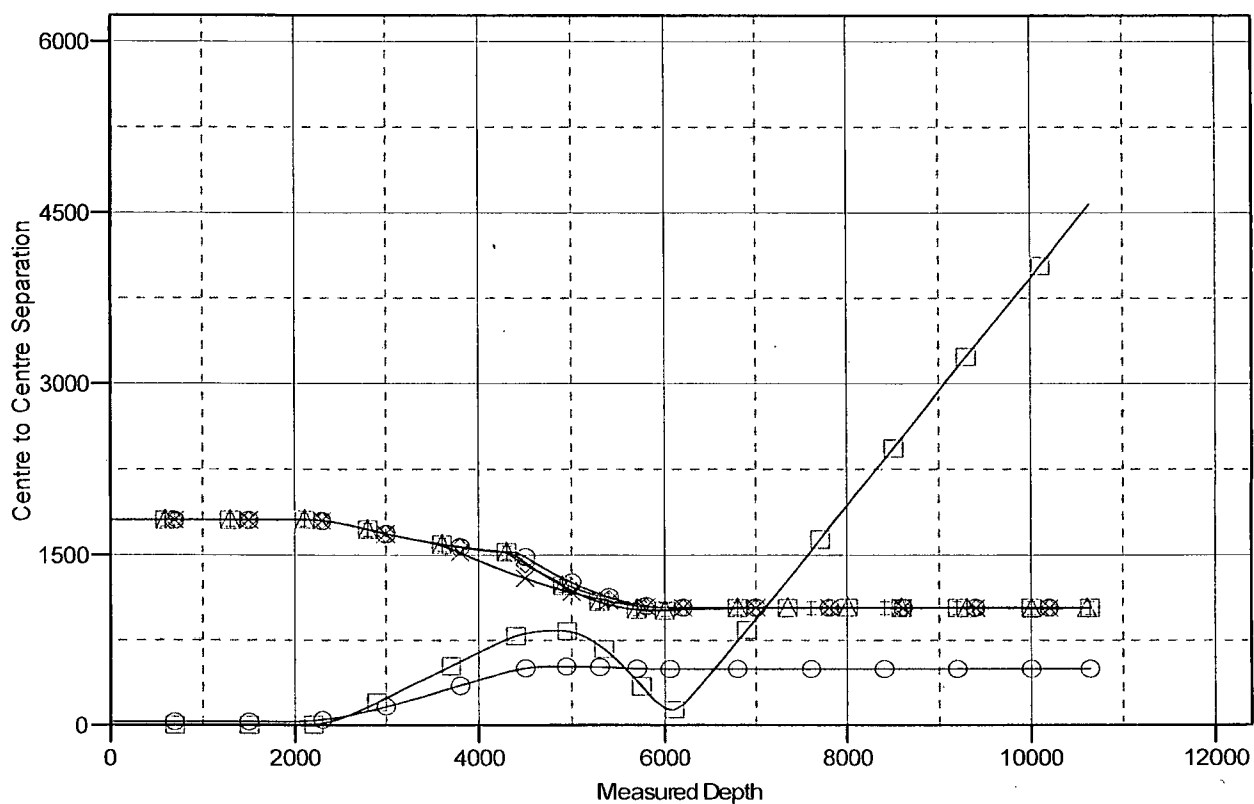
Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Reference Site: S28-T24N-R9W
Site Error: 0.0usft
Reference Well: Nageezi A28-2409 01H
Well Error: 0.0usft
Reference Wellbore: Hz
Reference Design: Plan #13

Local Co-ordinate Reference: Well Nageezi A28-2409 01H
TVD Reference: KB @ 6878.0usft (Aztec 920)
MD Reference: KB @ 6878.0usft (Aztec 920)
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 KB @ 6878.0usft (Aztec 920)
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.833333 °

Coordinates are relative to: Nageezi A28-2409 01H
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: 0.03°

Ladder Plot



LEGEND

- Escrito L27-2409 01H, Hz, Plan #3 V0
- Escrito L27-2409 01H, Hz, Plan #4 V0
- Escrito L27-2409 01H, Hz, Plan #5 Target Change DC 8/17/14 (they do it in the field) V0
- Nageezi A28-2409 01H, Hz, Plan #13
- Nageezi A28-2409 02H, Hz, Plan #14

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

Nageezi Unit A28-2409 01H

SHL: NE/4 NE/4 Sec 28 T24N R9W, 1223' FNL, 346' FEL

BHL: NW/4 W/2 Sec 28 T24N R9W, 1360' FNL, 330' FWL

San Juan, 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.	863
Kirtland Shale	1,048
Fruitland Coal	1,353
Pictured Cliffs Ss.	1,638
Lewis Shale	1,741
Cliffhouse Ss.	2,399
Menefee Fn.	3,167
Point Lookout Ss.	4,104
Mancos Shale	4,277
Mancos Silt	4,821
Gallup Fn.	5,079
Base Gallup	5,401

The referenced surface elevation is 6863', KB 6878'

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

Substance	Formation	Depth (TVD) units = feet
Water/Gas	Fruitland Coal	1,353
Oil/Gas	Pictured Cliffs Ss.	1,638
Oil/Gas	Cliffhouse Ss.	2,399
Gas	Menefee Fn.	3,167
Oil/Gas	Point Lookout Ss.	4,104
Oil/Gas	Mancos Shale	4,277
Oil/Gas	Mancos Silt	4,821
Oil/Gas	Gallup Fn.	5,079

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

Nageezi Unit A28-2409 01H**SHL: NE/4 NE/4 Sec 28 T24N R9W, 1223' FNL, 346' FEL****BHL: NW/4 W/2 Sec 28 T24N R9W, 1360' FNL, 330' FWL****San Juan, 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'-5491'	8 3/4"	7"	26#	J55, LTC New
Production Liner	5391'-10645'	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

Nageezi Unit A28-2409 01H**SHL: NE/4 NE/4 Sec 28 T24N R9W, 1223' FNL, 346' FEL****BHL: NW/4 W/2 Sec 28 T24N R9W, 1360' FNL, 330' FWL****San Juan, 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'	228 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'-5491'	100% open hole excess Stage 1 Lead: 503 sks Stage 1 Tail: 385 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	5391'-10645'	50% OH excess Stage 1 Blend Total: 301sks	Blend: Premium Lite High Strength FM + 0.7% bwoc R-3 + 3% bwoc 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 well will be drilled in two phases. A pilot hole will be drilled in the first phase, followed by kicking off a horizontal lateral in the existing wellbore in the second phase. The intent of drilling a pilot hole is to obtain open hole log data. The intent of the second phase of the well is to plug back the pilot hole with cement to the kick off point. After plugging back, the plan is to drill a horizontal lateral from the kick off point in the existing wellbore to the proposed bottom hole location.

Description	Proposed Depth (TVD/MD)	Formation
Vertical Pilot Hole	5600'/5600'	Gallup
Horizontal Lateral TD	5284'/10645'	Gallup

Proposed Plug Back Procedure: KOP 4821'

- a. Spot 500' kick plug from 4521' - 5021'
 - 209 sks of Clas A cement with salt (1.3 cuft/sk yield)
 - Spot tuned spacer

Nageezi Unit A28-2409 01H**SHL: NE/4 NE/4 Sec 28 T24N R9W, 1223' FNL, 346' FEL****BHL: NW/4 W/2 Sec 28 T24N R9W, 1360' FNL, 330' FWL****San Juan, 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'-5600'/5600'	Fresh Water LSND	8.3-10	40-50	8-10

b) KOP through Intermediate Casing Point:

Hole Size (in)	Depth (TVD/MD)	Mud Type	Density (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
8 3/4"	2100'/2100'- 5244'/5491'	Fresh Water LSND	9.5-8.8	40-50	8-10

c) Intermediate Casing Point to TD:

Hole Size (in)	Depth (TVD/MD)	Mud Type	Density (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
6 1/8"	5244'/5491'- 5284'/10645'	Fresh Water LSND	8.3-10	15-25	<15

- d) 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.
- e) 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 +/- 2506 psi based on a 9.0 ppg at 5356' 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

9. ANTICIPATED START DATE AND DURATION OF OPERATIONS

Drilling is estimated to commence on July 1st, 2015. It is anticipated that completion operations will begin within 30

It is anticipated that the drilling of this well will take approximately 20 days.

LOC: NE/4 NE/4 Sec 28 T24N R9W, 1223' FNL County: San Juan WELL: Nageezi Unit A28-2409 01H			Encana Natural Gas WELL SUMMARY				ENG: David Scadder 1-7-15 RIG: GLE: 6863 RKBE: 6877.5		
MWD LWD	-OPEN HOLE LOGGING	FORM	DEPTH TVDMD			HOLE SIZE	CASING SPECS	MW MUD TYPE	DEVIATION INFORMATION
			60 0	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. 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: 228 sks Type III Cement + 1% bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake + 0.2% bwoc FL-52A + 58.9% Fresh Water.	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. Kirland Shale Fruitland Coal Pictured Cliffs Ss. Lewis Shale Cliffhouse Ss. Menefee Fn. Point Lookout Ss. Mancos Shale	863 1,048 1,353 1,638 1,741 2,399 3,167 4,104 4,277			8 3/4	7" 26ppf J55 LTC TOC @ surface (100% OH excess - 70% Lead 30% Tail) Stage 1 Total: 888sks Stage 1 Lead: 503 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. Stage 1 Tail: 385 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.	Fresh Wtr 8.3-10	Vertical <1°
Surveys every 30' through the curve	Mud logger onsite	KOP Mancos Silt Gallup Fn. 7" Csg	2,100 4,821 5,079 5,244	2,100 5,491'					
Surveys every stand to TD unless directed otherwise by Geologist	No OH Logs	Horizontal Target TD Base Gallup Pilot Hole TD	5,356 5,284 5,401 5,600	10,645 5600'		6 1/8	100' overlap at liner top 5155' Drilled Lateral		Horz Inc/TVD 90.9deg/5355.5ft TD = 10645.4 MD
MWD Gamma Directional							4 1/2" 11.6ppf SB80 LTC TOC @ hanger (50% OH excess) Stage 1 Total: 301sks Stage 1 Blend: 301 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.	WBM 8.3-10	

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 2100', 8 3/4 inch holesize
- 5) Start curve at 10deg/100' build rate
- 6) Drill to csg point of 5491' MD
- 7) R&C 7" csg, circ cmt to surface
- 8) Land at ~90 deg, drill lateral to 10645' run 4 1/2 inch cemented liner