

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 998-6161 Fax: (575) 998-0720

DISTRICT II
611 S. First St., Artesia, N.M. 88810
Phone: (575) 748-1283 Fax: (575) 748-9780

DISTRICT III
1000 Rio Brazos Rd., Artesia, N.M. 87410
Phone: (505) 334-8178 Fax: (505) 334-8170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-8450 Fax: (505) 476-8452

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

AMENDED REPORT
 AS-DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-35467		*Pool Code 97232	*Pool Name BASIN MANCOS GAS
*Property Code 39945	*Property Name ESCRITO D30-2408		*Well Number 01H
*OGRID No. 282327	*Operator Name ENCANA OIL & GAS (USA) INC.		*Elevation 6849'

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
D	30	24N	8W	1	444'	NORTH	400'	WEST	SAN JUAN

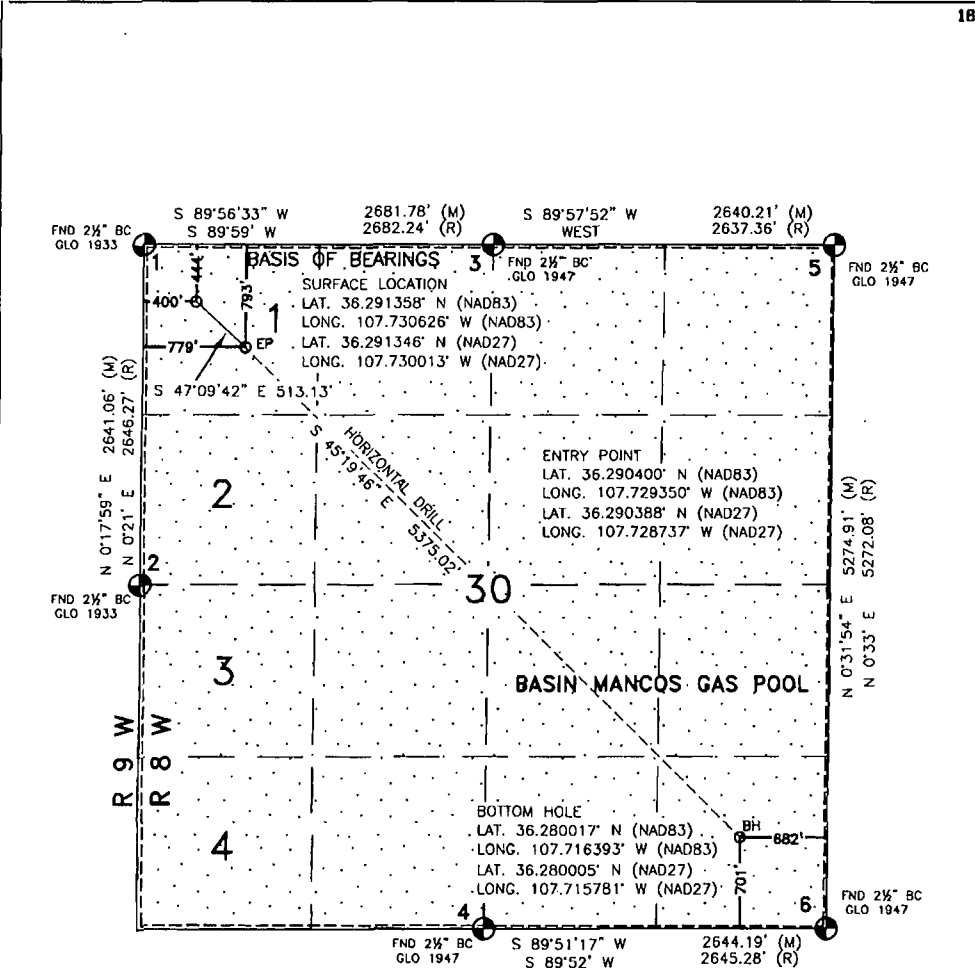
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	30	24N	8W		701'	SOUTH	682'	EAST	SAN JUAN

¹² Dedicated Acres 641.16 640.00 Acres - All Sec. 30	PROJECT AREA	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. RCVD SEP 13 '13 OIL CONS. DIV.
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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 **DIST. 3**

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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.

Holly Hill 09/10/13
Signature Date

Holly Hill, Regulatory Analyst

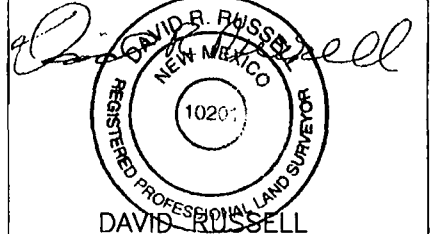
Printed Name
holly.hill@encana.com
E-mail Address

SURVEYOR CERTIFICATION

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

ASBUILT AUGUST 23, 2013
SURVEYED DATE JANUARY 31, 2013
Date of Survey

Signature and Seal of Professional Surveyor:



Certificate Number 10201

AV

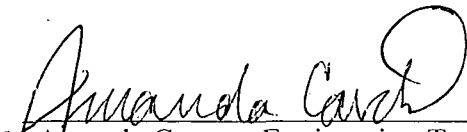
DEVIATION SURVEYS

MD (Feet)	Inclination (Degree)
556	1.2
802	1
1108	0.3
1291	0.7
1414	0.8
1727	1
2041	0.5
2356	0.6
2671	1
2987	0.4
3302	1.1
3617	0.8
3932	0.4
4310	0.8
4562	0.9
4863	1

RCVD SEP 13 '13
OIL CONS. DIV.
DIST. 3

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.


Amanda Cavoto, Engineering Technologist


9/10/13

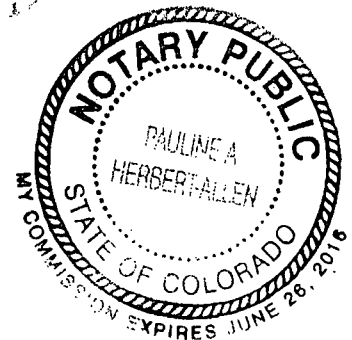
ACKNOWLEDGMENT

State of Colorado
City and County of Denver

This instrument was acknowledged before me on this 10th day of September, 2013 by Amanda Cavoto as Attorney in Fact of Encana Oil & Gas (USA) Inc., on behalf of said corporation.

In witness whereof, I hereunto set my hand and official seal.

Notary Public: 
PAULINE A. HERBERT-ALLEN
My Commission Expires: June 26, 2016

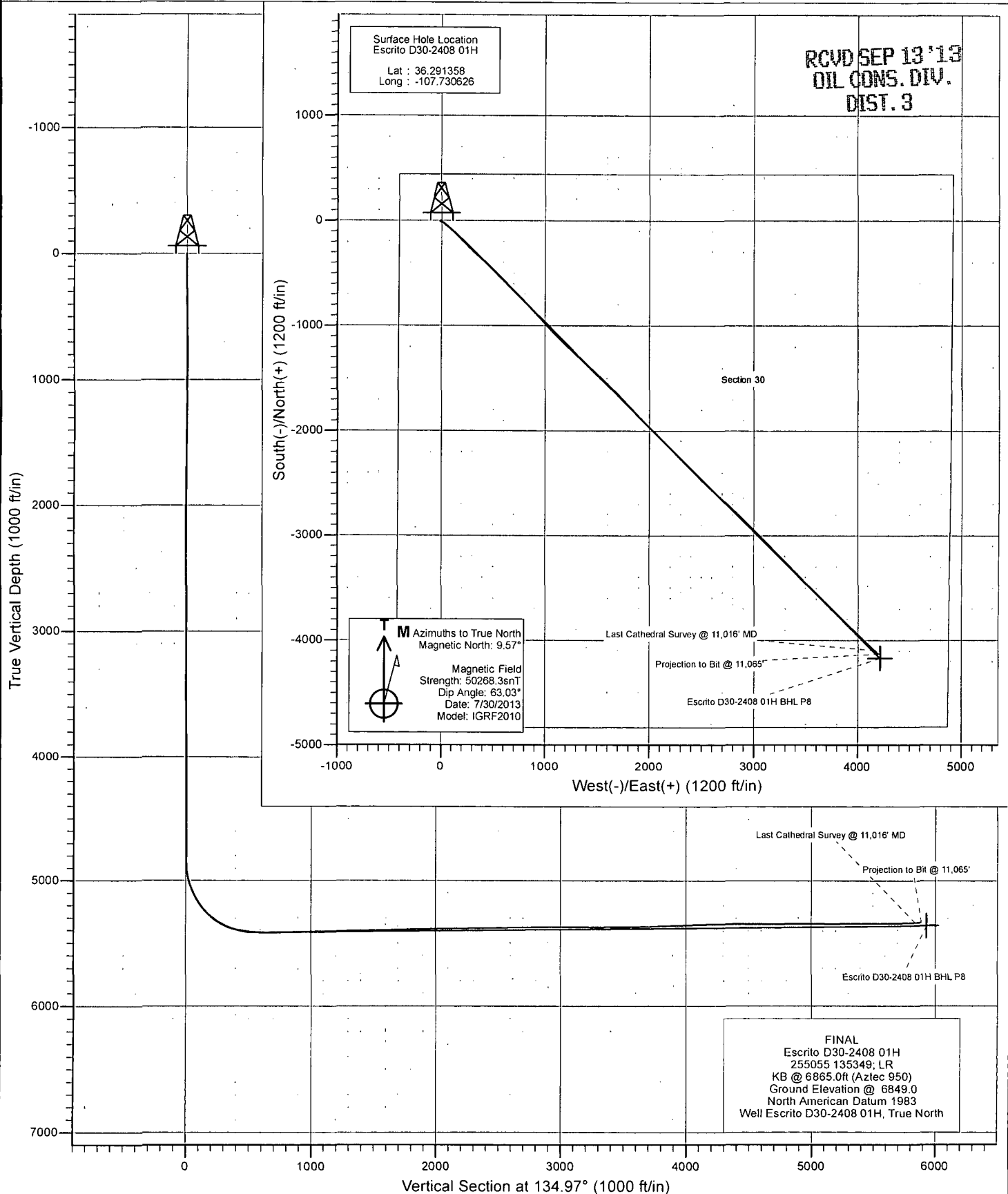




Project: San Juan County, NM
 Site: S30-T24N-R8W
 Well: Escrito D30-2408 01H
 Wellbore: HZ
 Design: FINAL

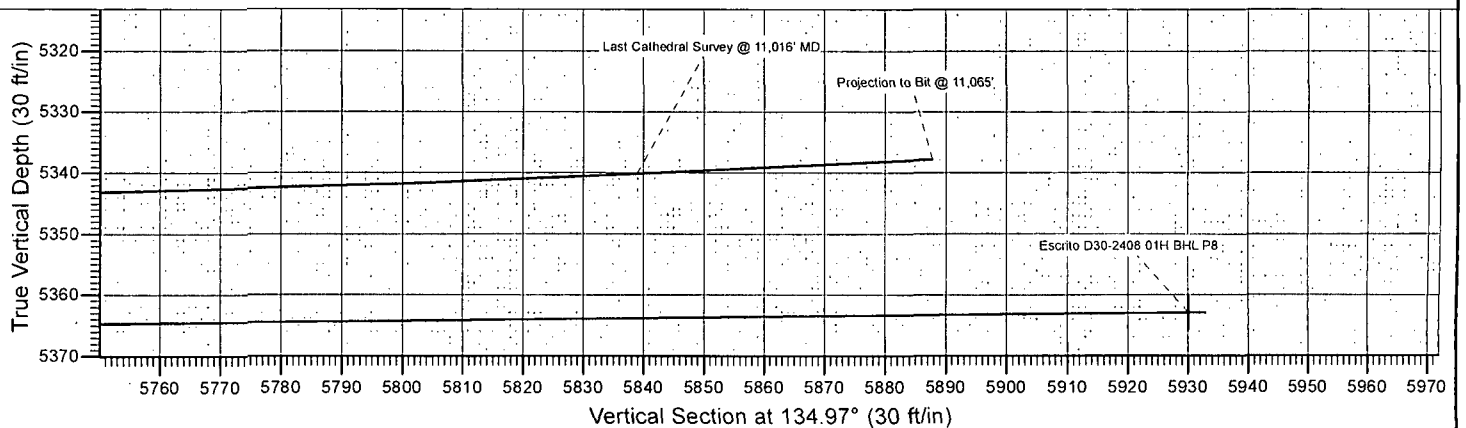
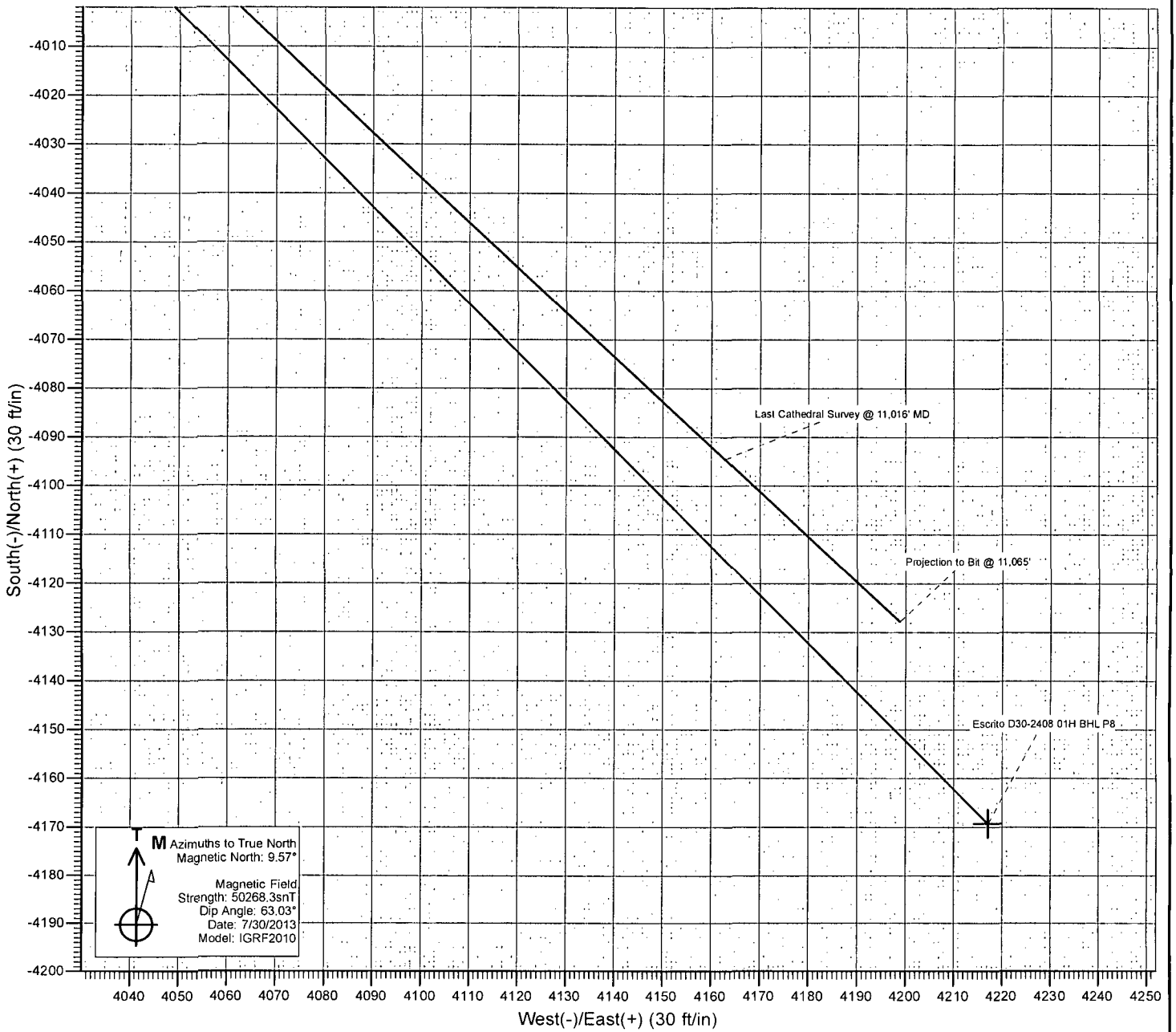


RCVD SEP 13 '13
 OIL CONS. DIV.
 DIST. 3





Project: San Juan County, NM
Site: S30-T24N-R8W
Well: Escrito D30-2408 01H
Wellbore: HZ
Design: FINAL



Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S30-T24N-R8W
Well: Escrito D30-2408 01H
Wellbore: HZ
Design: HZ

Local Co-ordinate Reference: Well Escrito D30-2408 01H
TVD Reference: KB @ 6865.0ft (Aztec 950)
MD Reference: KB @ 6865.0ft (Aztec 950)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA EDM 5000 Multi Users DB

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	S30-T24N-R8W				
Site Position:		Northing:	1,925,373.73 ft	Latitude:	36.291358
From:	Lat/Long	Easting:	2,753,364.57 ft	Longitude:	-107.730626
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.06 °

Well	Escrito D30-2408 01H					
Well Position	+N/-S	0.0 ft	Northing:	1,925,373.73 ft	Latitude:	36.291358
	+E/-W	0.0 ft	Easting:	2,753,364.57 ft	Longitude:	-107.730626
Position Uncertainty	0.0 ft		Wellhead Elevation:	ft	Ground Level:	6,849.0 ft

Wellbore	HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/30/2013	9.57	63.03	50,268

Design	HZ				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	134.97	

Survey Program	Date	8/12/2013			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
556.0	11,065.0	Survey #1 (HZ)	Geolink MWD	Geolink MWD	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
556.0	1.20	145.00	556.0	-4.8	3.3	5.7	0.22	0.22	
618.0	1.00	178.80	617.9	-5.8	3.7	6.8	1.08	-0.32	
679.0	1.10	183.50	678.9	-7.0	3.7	7.5	0.22	0.16	
740.0	0.40	174.00	739.9	-7.8	3.7	8.1	1.16	-1.15	
802.0	1.00	213.80	801.9	-8.4	3.4	8.4	1.19	0.97	
863.0	0.50	242.70	862.9	-9.0	2.9	8.4	1.00	-0.82	
924.0	0.10	279.60	923.9	-9.1	2.6	8.3	0.70	-0.66	
985.0	0.80	274.80	984.9	-9.1	2.1	7.9	1.15	1.15	
1,046.0	0.80	338.90	1,045.9	-8.6	1.5	7.2	1.39	0.00	
1,108.0	0.30	336.30	1,107.9	-8.1	1.3	6.6	0.81	-0.81	
1,230.0	0.80	320.40	1,229.9	-7.1	0.6	5.5	0.42	0.41	
1,291.0	0.70	344.10	1,290.9	-6.4	0.3	4.7	0.53	-0.16	

Cathedral Energy Services

Survey Report

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Site: S30-T24N-R8W
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Wellbore: HZ
Design: HZ

Local Co-ordinate Reference: Well Escrito D30-2408 01H
TVD Reference: KB @ 6865.0ft (Aztec 950)
MD Reference: KB @ 6865.0ft (Aztec 950)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA EDM 5000 Multi Users DB

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
1,352.0	0.60	343.50	1,351.9	-5.8	0.1	4.1	0.16	-0.16	
1,414.0	0.80	315.61	1,413.9	-5.1	-0.3	3.4	0.63	0.32	
1,475.0	1.10	276.10	1,474.9	-4.8	-1.2	2.5	1.15	0.49	
1,539.0	1.00	268.10	1,538.9	-4.7	-2.4	1.7	0.28	-0.16	
1,601.0	1.10	240.50	1,600.9	-5.0	-3.4	1.1	0.82	0.16	
1,664.0	0.60	350.10	1,663.9	-5.0	-4.0	0.7	2.25	-0.79	
1,727.0	1.00	342.20	1,726.9	-4.2	-4.2	-0.1	0.66	0.63	
1,790.0	0.90	347.30	1,789.8	-3.2	-4.5	-1.0	0.21	-0.16	
1,853.0	0.30	356.00	1,852.8	-2.5	-4.6	-1.5	0.96	-0.95	
1,916.0	0.90	0.20	1,915.8	-1.9	-4.6	-2.0	0.95	0.95	
1,978.0	1.30	346.00	1,977.8	-0.7	-4.8	-2.9	0.78	0.65	
2,041.0	0.50	25.60	2,040.8	0.3	-4.9	-3.6	1.54	-1.27	
2,104.0	0.70	58.00	2,103.8	0.7	-4.4	-3.6	0.61	0.32	
2,167.0	0.40	140.30	2,166.8	0.7	-4.0	-3.3	1.20	-0.48	
2,230.0	0.10	99.60	2,229.8	0.6	-3.8	-3.1	0.52	-0.48	
2,293.0	0.60	136.00	2,292.8	0.3	-3.5	-2.7	0.83	0.79	
2,356.0	0.60	176.40	2,355.8	-0.3	-3.2	-2.1	0.66	0.00	
2,419.0	1.10	187.60	2,418.8	-1.2	-3.3	-1.5	0.83	0.79	
2,482.0	0.80	228.10	2,481.8	-2.1	-3.7	-1.1	1.14	-0.48	
2,545.0	1.00	193.80	2,544.8	-2.9	-4.2	-0.9	0.90	0.32	
2,608.0	0.50	223.00	2,607.8	-3.6	-4.5	-0.6	0.97	-0.79	
2,671.0	1.00	214.50	2,670.8	-4.3	-5.0	-0.5	0.81	0.79	
2,734.0	0.40	205.10	2,733.8	-4.9	-5.4	-0.3	0.97	-0.95	
2,797.0	0.70	201.00	2,796.8	-5.5	-5.6	-0.1	0.48	0.48	
2,861.0	1.20	228.20	2,860.8	-6.3	-6.2	0.0	1.03	0.78	
2,924.0	0.60	267.20	2,923.7	-6.8	-7.1	-0.2	1.31	-0.95	
2,987.0	0.40	195.00	2,986.7	-7.0	-7.5	-0.3	0.97	-0.32	
3,050.0	0.80	251.20	3,049.7	-7.3	-7.9	-0.4	1.06	0.63	
3,113.0	0.40	269.10	3,112.7	-7.5	-8.6	-0.8	0.69	-0.63	
3,175.0	1.20	52.70	3,174.7	-7.1	-8.3	-0.8	2.48	1.29	
3,238.0	1.00	54.70	3,237.7	-6.4	-7.3	-0.6	0.32	-0.32	
3,302.0	1.10	41.70	3,301.7	-5.6	-6.4	-0.6	0.40	0.16	
3,365.0	0.70	78.90	3,364.7	-5.1	-5.6	-0.4	1.09	-0.63	
3,428.0	0.80	80.00	3,427.7	-4.9	-4.8	0.1	0.16	0.16	
3,491.0	0.50	34.10	3,490.7	-4.6	-4.2	0.3	0.92	-0.48	
3,556.0	0.80	104.10	3,555.7	-4.5	-3.6	0.6	1.21	0.46	
3,617.0	0.80	112.10	3,616.7	-4.8	-2.8	1.4	0.18	0.00	
3,680.0	1.30	95.30	3,679.7	-5.0	-1.7	2.3	0.92	0.79	
3,743.0	1.30	91.20	3,742.7	-5.1	-0.3	3.4	0.15	0.00	
3,806.0	0.80	121.60	3,805.7	-5.3	0.8	4.3	1.16	-0.79	
3,869.0	0.60	91.00	3,868.6	-5.6	1.5	5.0	0.66	-0.32	
3,932.0	0.40	123.80	3,931.6	-5.7	2.0	5.4	0.54	-0.32	
3,995.0	0.20	305.40	3,994.6	-5.7	2.1	5.5	0.95	-0.32	
4,058.0	0.20	192.00	4,057.6	-5.8	2.0	5.5	0.53	0.00	
4,121.0	0.30	156.40	4,120.6	-6.0	2.0	5.7	0.29	0.16	
4,186.0	0.60	85.20	4,185.6	-6.2	2.4	6.1	0.89	0.46	
4,247.0	0.40	159.10	4,246.6	-6.3	2.8	6.5	1.02	-0.33	
4,310.0	0.80	259.90	4,309.6	-6.6	2.5	6.4	1.52	0.63	
4,373.0	0.30	299.70	4,372.6	-6.6	1.9	6.0	0.95	-0.79	
4,436.0	0.50	143.30	4,435.6	-6.8	1.9	6.1	1.24	0.32	
4,498.0	0.40	130.90	4,497.6	-7.1	2.3	6.6	0.22	-0.16	
4,562.0	0.90	219.60	4,561.6	-7.7	2.1	6.9	1.53	0.78	
4,625.0	1.70	221.30	4,624.6	-8.7	1.2	7.0	1.27	1.27	

Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S30-T24N-RBW
Well: Escrito D30-2408 01H
Wellbore: HZ
Design: HZ

Local Co-ordinate Reference: Well Escrito D30-2408 01H
TVD Reference: KB @ 6865.0ft (Aztec 950)
MD Reference: KB @ 6865.0ft (Aztec 950)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA EDM 5000 Multi Users DB

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
4,688.0	0.60	231.60	4,687.6	-9.6	0.3	7.0	1.77	-1.75	
4,751.0	0.40	215.10	4,750.6	-10.0	-0.1	7.0	0.39	-0.32	
4,812.0	1.00	212.30	4,811.6	-10.7	-0.5	7.2	0.98	0.98	
4,863.0	1.00	152.70	4,862.6	-11.4	-0.5	7.7	1.95	0.00	
4,895.0	3.90	102.30	4,894.6	-11.9	0.7	8.9	10.48	9.06	
4,926.0	8.10	96.60	4,925.4	-12.4	3.9	11.5	13.67	13.55	
4,958.0	11.00	105.60	4,956.9	-13.5	9.0	15.9	10.17	9.06	
4,989.0	14.40	116.50	4,987.2	-16.0	15.3	22.1	13.37	10.97	
5,021.0	17.00	123.50	5,018.0	-20.3	22.8	30.5	10.04	8.12	
5,052.0	20.60	127.60	5,047.3	-26.2	30.9	40.4	12.36	11.61	
5,084.0	22.70	130.30	5,077.1	-33.6	40.1	52.1	7.26	6.56	
5,115.0	26.10	129.50	5,105.3	-41.8	49.9	64.9	11.02	10.97	
5,147.0	27.70	131.80	5,133.8	-51.2	60.9	79.3	5.96	5.00	
5,178.0	31.70	129.50	5,160.8	-61.2	72.5	94.6	13.41	12.90	
5,209.0	33.90	130.00	5,186.8	-72.0	85.5	111.3	7.15	7.10	
5,241.0	38.00	130.60	5,212.7	-84.1	99.8	130.0	12.86	12.81	
5,272.0	41.50	131.80	5,236.5	-97.2	114.7	149.8	11.56	11.29	
5,304.0	45.10	133.10	5,259.8	-112.0	130.9	171.7	11.59	11.25	
5,336.0	46.50	134.50	5,282.1	-127.9	147.4	194.7	5.38	4.37	
5,367.0	50.20	134.20	5,302.7	-144.1	164.0	217.8	11.96	11.94	
5,398.0	54.20	136.00	5,321.7	-161.4	181.3	242.3	13.69	12.90	
5,430.0	58.10	136.40	5,339.6	-180.6	199.6	268.9	12.23	12.19	
5,461.0	61.80	136.00	5,355.1	-200.0	218.2	295.7	11.99	11.94	
5,493.0	66.10	135.00	5,369.1	-220.5	238.4	324.4	13.73	13.44	
5,524.0	70.80	134.60	5,380.5	-240.8	258.8	353.3	15.21	15.16	
5,555.0	75.60	134.80	5,389.5	-261.6	279.9	382.9	15.50	15.48	
5,587.0	78.80	133.40	5,396.6	-283.3	302.3	414.1	10.87	10.00	
5,611.0	80.80	132.90	5,400.8	-299.5	319.5	437.7	8.58	8.33	
5,624.0	81.30	131.50	5,402.8	-308.1	329.1	450.6	11.31	3.85	
5,656.0	82.10	130.80	5,407.4	-329.0	352.9	482.2	3.31	2.50	
5,687.0	82.80	130.00	5,411.5	-348.9	376.3	512.8	3.41	2.26	
5,718.0	85.10	131.00	5,414.8	-368.9	399.7	543.5	8.08	7.42	
5,750.0	86.80	131.60	5,417.0	-390.0	423.7	575.4	5.63	5.31	
5,782.0	87.30	132.00	5,418.7	-411.3	447.6	607.3	2.00	1.56	
5,813.0	89.10	133.80	5,419.7	-432.4	470.2	638.3	8.21	5.81	
5,845.0	91.20	134.60	5,419.6	-454.7	493.2	670.2	7.02	6.56	
5,907.0	92.30	135.20	5,417.7	-498.4	537.1	732.2	2.02	1.77	
5,970.0	91.00	135.70	5,415.9	-543.3	581.3	795.2	2.21	-2.06	
6,033.0	90.80	135.30	5,414.9	-588.2	625.4	858.2	0.71	-0.32	
6,064.0	90.90	134.80	5,414.4	-610.2	647.3	889.2	1.64	0.32	
6,127.0	91.00	134.40	5,413.4	-654.4	692.2	952.2	0.65	0.16	
6,190.0	91.60	135.20	5,411.9	-698.8	736.9	1,015.1	1.59	0.95	
6,252.0	91.50	134.70	5,410.3	-742.5	780.7	1,077.1	0.82	-0.16	
6,316.0	91.30	136.00	5,408.7	-788.1	825.7	1,141.1	2.05	-0.31	
6,379.0	91.50	136.60	5,407.2	-833.6	869.2	1,204.1	1.00	0.32	
6,442.0	91.40	138.10	5,405.6	-879.9	911.9	1,267.0	2.39	-0.16	
6,505.0	90.30	137.30	5,404.6	-926.5	954.3	1,329.9	2.16	-1.75	
6,568.0	90.30	136.60	5,404.3	-972.5	997.3	1,392.9	1.11	0.00	
6,631.0	91.40	135.90	5,403.4	-1,018.0	1,040.8	1,455.8	2.07	1.75	
6,694.0	91.50	134.90	5,401.8	-1,062.9	1,085.0	1,518.8	1.59	0.16	
6,756.0	91.60	135.00	5,400.1	-1,106.7	1,128.9	1,580.8	0.23	0.16	
6,819.0	91.70	134.40	5,398.3	-1,151.0	1,173.7	1,643.8	0.97	0.16	
6,882.0	91.80	134.20	5,396.4	-1,194.9	1,218.7	1,706.7	0.35	0.16	

Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S30-T24N-R8W
Well: Escrito D30-2408 01H
Wellbore: HZ
Design: HZ

Local Co-ordinate Reference: Well Escrito D30-2408 01H
TVD Reference: KB @ 6865.0ft (Aztec 950)
MD Reference: KB @ 6865.0ft (Aztec 950)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA EDM 5000 Multi Users DB

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
6,945.0	90.80	132.60	5,394.9	-1,238.2	1,264.5	1,769.7	2.99	-1.59	
7,009.0	91.00	131.70	5,393.9	-1,281.2	1,311.9	1,833.6	1.44	0.31	
7,071.0	90.40	132.50	5,393.2	-1,322.7	1,357.9	1,895.5	1.61	-0.97	
7,135.0	91.30	132.90	5,392.2	-1,366.1	1,405.0	1,959.5	1.54	1.41	
7,198.0	91.20	133.60	5,390.9	-1,409.3	1,450.8	2,022.4	1.12	-0.16	
7,260.0	90.40	133.20	5,390.0	-1,451.9	1,495.9	2,084.4	1.44	-1.29	
7,323.0	91.60	133.30	5,388.9	-1,495.0	1,541.8	2,147.4	1.91	1.90	
7,386.0	91.10	133.90	5,387.4	-1,538.5	1,587.4	2,210.3	1.24	-0.79	
7,450.0	89.90	134.40	5,386.8	-1,583.0	1,633.3	2,274.3	2.03	-1.87	
7,513.0	91.30	134.90	5,386.2	-1,627.3	1,678.1	2,337.3	2.36	2.22	
7,576.0	91.70	136.80	5,384.5	-1,672.5	1,722.0	2,400.3	3.08	0.63	
7,639.0	91.30	137.20	5,382.9	-1,718.6	1,764.9	2,463.2	0.90	-0.63	
7,702.0	90.60	137.20	5,381.8	-1,764.8	1,807.7	2,526.2	1.11	-1.11	
7,765.0	90.00	136.40	5,381.5	-1,810.7	1,850.8	2,589.1	1.59	-0.95	
7,828.0	91.30	136.40	5,380.8	-1,856.3	1,894.3	2,652.1	2.06	2.06	
7,891.0	91.60	136.20	5,379.2	-1,901.9	1,937.8	2,715.1	0.57	0.48	
7,954.0	89.80	134.60	5,378.4	-1,946.7	1,982.0	2,778.0	3.82	-2.86	
8,017.0	90.60	135.50	5,378.2	-1,991.3	2,026.5	2,841.0	1.91	1.27	
8,080.0	89.60	134.90	5,378.1	-2,036.0	2,070.9	2,904.0	1.85	-1.59	
8,143.0	89.90	134.50	5,378.4	-2,080.3	2,115.7	2,967.0	0.79	0.48	
8,206.0	90.70	134.70	5,378.0	-2,124.5	2,160.6	3,030.0	1.31	1.27	
8,269.0	91.50	134.10	5,376.8	-2,168.6	2,205.6	3,093.0	1.59	1.27	
8,332.0	91.10	135.10	5,375.4	-2,212.8	2,250.4	3,156.0	1.71	-0.63	
8,395.0	90.80	135.30	5,374.4	-2,257.5	2,294.8	3,219.0	0.57	-0.48	
8,458.0	89.30	135.70	5,374.3	-2,302.5	2,339.0	3,282.0	2.46	-2.38	
8,521.0	89.50	135.70	5,375.0	-2,347.6	2,382.9	3,345.0	0.32	0.32	
8,584.0	90.00	135.70	5,375.2	-2,392.6	2,426.9	3,408.0	0.79	0.79	
8,647.0	90.60	134.70	5,374.9	-2,437.3	2,471.3	3,471.0	1.85	0.95	
8,710.0	90.40	133.90	5,374.4	-2,481.3	2,516.4	3,534.0	1.31	-0.32	
8,773.0	91.10	134.00	5,373.5	-2,525.1	2,561.8	3,596.9	1.12	1.11	
8,836.0	91.90	133.10	5,371.9	-2,568.4	2,607.4	3,659.9	1.91	1.27	
8,899.0	92.50	132.80	5,369.5	-2,611.3	2,653.5	3,722.8	1.06	0.95	
8,962.0	92.00	133.10	5,367.0	-2,654.2	2,699.6	3,785.7	0.93	-0.79	
9,025.0	92.90	133.00	5,364.3	-2,697.2	2,745.6	3,848.6	1.44	1.43	
9,089.0	92.00	133.80	5,361.6	-2,741.1	2,792.0	3,912.6	1.88	-1.41	
9,152.0	92.10	133.30	5,359.3	-2,784.5	2,837.7	3,975.5	0.81	0.16	
9,215.0	92.70	132.70	5,356.7	-2,827.4	2,883.7	4,038.4	1.35	0.95	
9,278.0	92.60	134.40	5,353.8	-2,870.8	2,929.3	4,101.3	2.70	-0.16	
9,341.0	91.50	135.40	5,351.5	-2,915.2	2,973.9	4,164.3	2.36	-1.75	
9,404.0	90.00	136.70	5,350.7	-2,960.6	3,017.6	4,227.3	3.15	-2.38	
9,467.0	90.00	135.40	5,350.7	-3,005.9	3,061.3	4,290.2	2.06	0.00	
9,530.0	90.60	135.40	5,350.4	-3,050.8	3,105.6	4,353.2	0.95	0.95	
9,593.0	91.30	135.10	5,349.3	-3,095.5	3,149.9	4,416.2	1.21	1.11	
9,656.0	89.90	135.40	5,348.7	-3,140.3	3,194.3	4,479.2	2.27	-2.22	
9,719.0	90.10	135.10	5,348.7	-3,185.0	3,238.6	4,542.2	0.57	0.32	
9,782.0	91.10	134.40	5,348.0	-3,229.4	3,283.4	4,605.2	1.94	1.59	
9,845.0	91.10	135.60	5,346.8	-3,273.9	3,327.9	4,668.2	1.90	0.00	
9,909.0	89.70	135.80	5,346.3	-3,319.7	3,372.6	4,732.2	2.21	-2.19	
9,972.0	90.60	135.50	5,346.2	-3,364.8	3,416.6	4,795.2	1.51	1.43	
10,035.0	89.00	135.80	5,346.4	-3,409.8	3,460.7	4,858.2	2.58	-2.54	
10,098.0	89.40	135.80	5,347.3	-3,455.0	3,504.6	4,921.2	0.63	0.63	
10,160.0	90.00	135.20	5,347.6	-3,499.2	3,548.0	4,983.2	1.37	0.97	
10,223.0	88.90	135.00	5,348.2	-3,543.8	3,592.5	5,046.2	1.77	-1.75	

Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
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Wellbore: HZ
Design: HZ

Local Co-ordinate Reference: Well Escrito D30-2408 01H
TVD Reference: KB @ 6865.0ft (Aztec 950)
MD Reference: KB @ 6865.0ft (Aztec 950)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA EDM 5000 Multi Users DB

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
10,286.0	89.70	135.70	5,349.0	-3,588.6	3,636.8	5,109.2	1.69	1.27	
10,349.0	90.20	134.50	5,349.0	-3,633.2	3,681.3	5,172.2	2.06	0.79	
10,412.0	91.40	134.90	5,348.1	-3,677.6	3,726.0	5,235.1	2.01	1.90	
10,475.0	90.00	134.00	5,347.4	-3,721.7	3,771.0	5,298.1	2.64	-2.22	
10,539.0	90.10	133.90	5,347.3	-3,766.1	3,817.1	5,362.1	0.22	0.16	
10,601.0	90.50	134.10	5,347.0	-3,809.2	3,861.7	5,424.1	0.72	0.65	
10,665.0	89.80	134.00	5,346.8	-3,853.7	3,907.7	5,488.1	1.10	-1.09	
10,728.0	90.30	134.30	5,346.8	-3,897.5	3,952.9	5,551.1	0.93	0.79	
10,791.0	91.30	133.40	5,345.9	-3,941.2	3,998.3	5,614.1	2.14	1.59	
10,854.0	91.00	133.50	5,344.6	-3,984.5	4,044.0	5,677.0	0.50	-0.48	
10,917.0	91.10	132.80	5,343.5	-4,027.6	4,090.0	5,740.0	1.12	0.16	
10,979.0	92.10	132.40	5,341.7	-4,069.5	4,135.6	5,801.9	1.74	1.61	
11,016.0	92.70	132.70	5,340.2	-4,094.5	4,162.8	5,838.9	1.81	1.62	Last Cathedral Survey @ 11,016' MD
11,065.0	92.70	132.70	5,337.9	-4,127.7	4,198.8	5,887.8	0.00	0.00	Projection to Bit @ 11,065'

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Escrito D30-2408 01H B - survey misses target center by 74.3ft at 11065.0ft MD (5337.9 TVD, -4127.7 N, 4198.8 E) - Point	0.00	0.07	5,395.9	-4,170.7	4,216.5	1,921,207.51	2,757,585.54	36.279900	-107.716320
Escrito D30-2408 01H B - survey misses target center by 58.6ft at 11065.0ft MD (5337.9 TVD, -4127.7 N, 4198.8 E) - Point	0.00	0.07	5,374.9	-4,169.2	4,217.1	1,921,208.96	2,757,586.13	36.279904	-107.716318
Escrito D30-2408 01H P - survey misses target center by 26.9ft at 5512.9ft MD (5376.7 TVD, -233.4 N, 251.4 E) - Point	0.00	0.07	5,395.9	-215.9	258.2	1,925,158.14	2,753,622.96	36.290765	-107.729750
Escrito D30-2408 01H B - survey misses target center by 51.8ft at 11065.0ft MD (5337.9 TVD, -4127.7 N, 4198.8 E) - Point	0.00	0.07	5,362.9	-4,169.2	4,217.1	1,921,208.96	2,757,586.13	36.279904	-107.716318
Escrito D30-2408 01H B - survey misses target center by 90.3ft at 11065.0ft MD (5337.9 TVD, -4127.7 N, 4198.8 E) - Point	0.00	0.07	5,415.9	-4,169.2	4,217.1	1,921,208.96	2,757,586.13	36.279904	-107.716318

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
11,016.0	5,340.2	-4,094.5	4,162.8	Last Cathedral Survey @ 11,016' MD
11,065.0	5,337.9	-4,127.7	4,198.8	Projection to Bit @ 11,065'

Checked By: _____ Approved By: _____ Date: _____