

DISTRICT I

1625 N. French Dr., Hobbs, N.M. 88240
Phone: (505) 393-6161 Fax: (505) 393-0720

DISTRICT II

811 S. First St., Artesia, N.M. 88210
Phone: (505) 748-1283 Fax: (505) 748-0720

DISTRICT III

1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 478-3460 Fax: (505) 478-3462

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☒ AS DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35841		² Pool Code 98080	³ Pool Name NAGEEZI UNIT HZ (OIL)
⁴ Property Code 315244	⁵ Property Name NAGEEZI UNIT		⁶ Well Number 405H
⁷ GRID No. 282327	⁸ Operator Name ENCANA OIL & GAS (USA) INC.		⁹ Elevation 6765'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	WEST/West line	County
K	3	23N	9W		1984'	SOUTH	1738'	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	WEST/West line	County
L	33	24N	9W		2002'	SOUTH	891'	WEST	SAN JUAN

¹² Dedicated Acres
PENETRATED SPACING UNIT; S/2 SEC. 33 (320 ACRES),
ALL SEC. 4 (643.84 ACRES),
W/2 SEC. 3 (321.77 ACRES) = 1285.61 ACRES TOTAL

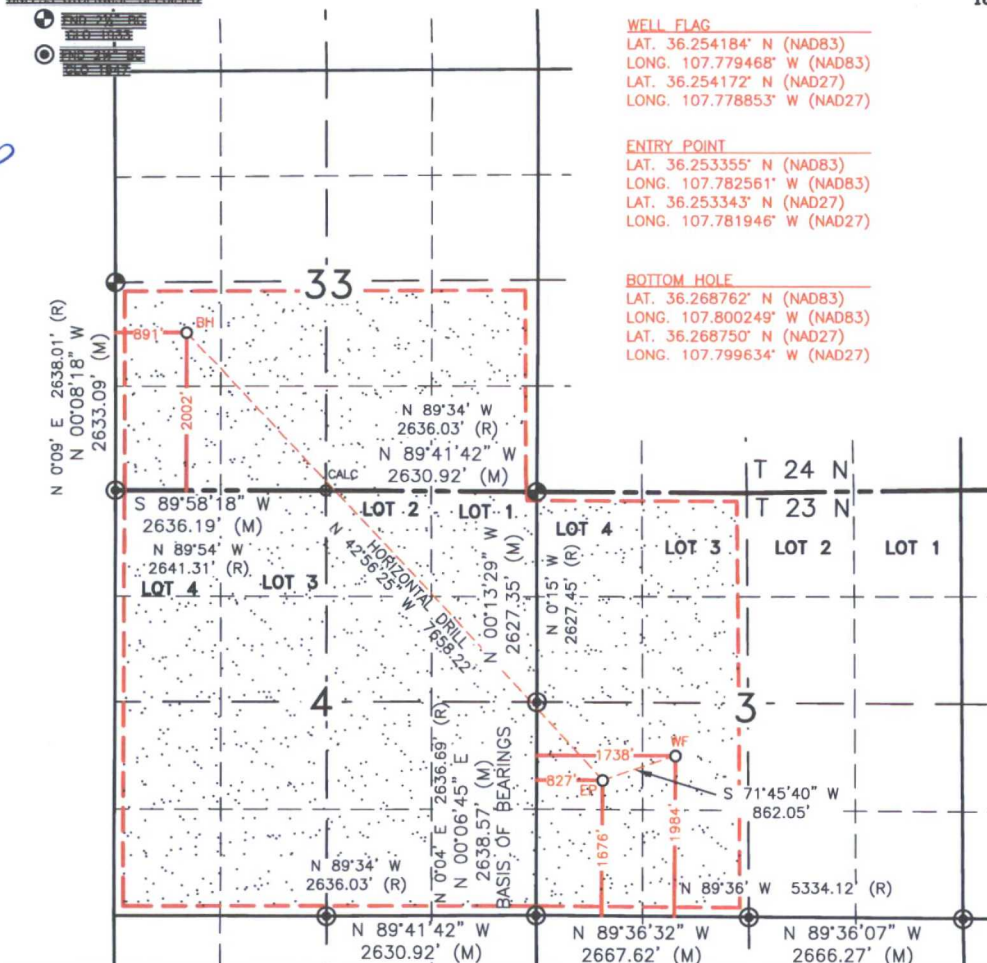
¹³ Joint or Infill¹⁴ Consolidation Code¹⁵ Order No.

R-13856-A (10,415.12 ACRES)

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

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BRIEF DESCRIPTION OF PLAT



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] 8/30/17
Date

Jevin Croteau
Printed Name

jevin.croteau@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.

JULY 10, 2017

Date of Survey

Signature and Seal of Professional Surveyor:



N

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Santa Fe, NM 87505

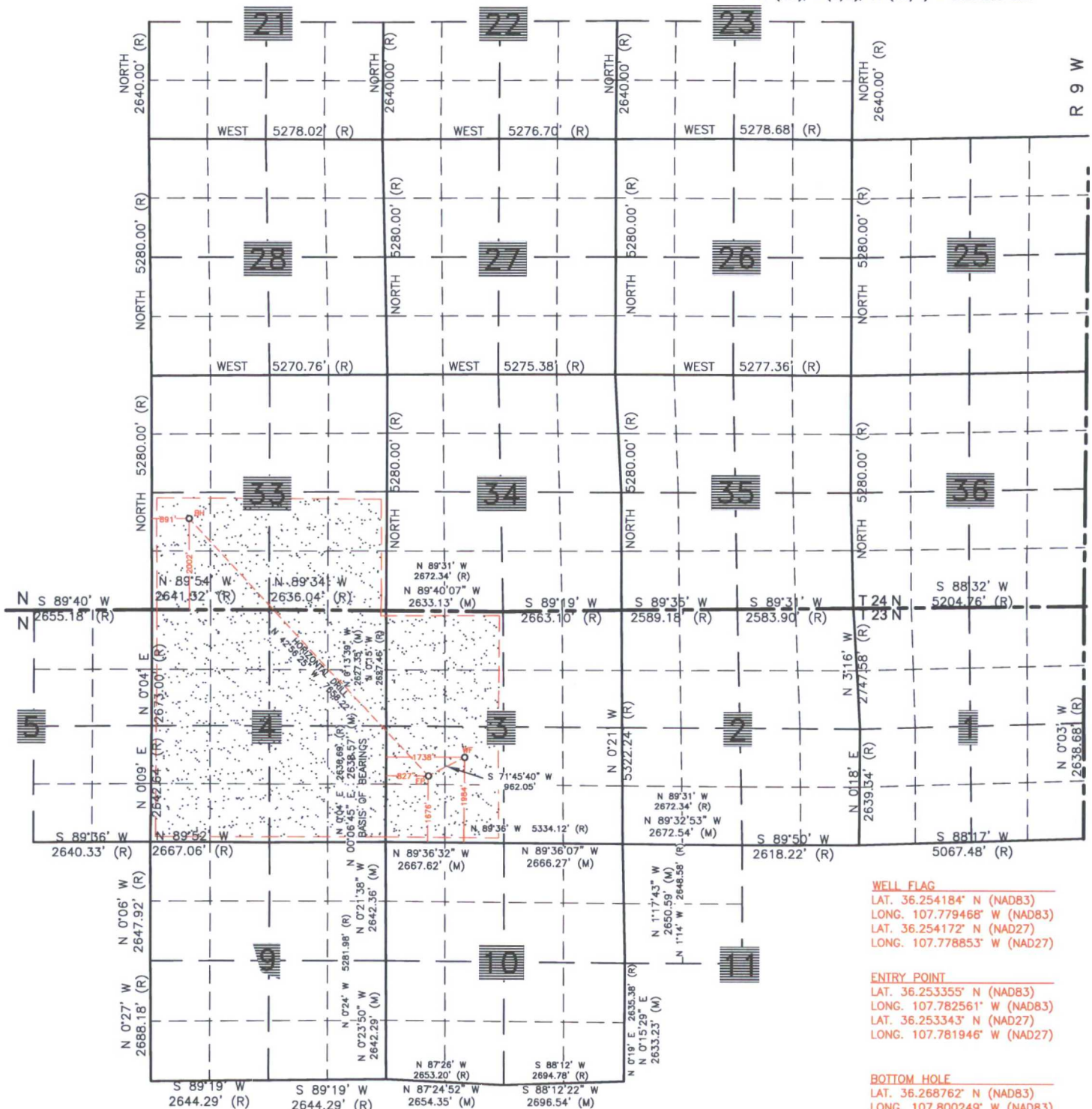
Form C-102
Revised August 1, 2011

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☐ AMENDED REPORT
☒ AS DRILLED

ENCANA OIL & GAS (USA) INC.
NAGEEZI UNIT #405H

PENETRATED SPACING UNIT; S/2 SEC. 33 (320
ACRES), ALL SEC. 4 (643.84 ACRES),
W/2 SEC. 3 (321.77 ACRES) = 1285.61 ACRES TOTAL
TOTAL 10,415.12 ACRES: SEC. 21-23 (S/2); 25-28, 33-36, 1-4,
9-10 (ALL); 5 (W/2); 11 (NW/4) - UNDIVIDED UNIT



WELL FLAG
LAT. 36.254184° N (NAD83)
LONG. 107.779468° W (NAD83)
LAT. 36.254172° N (NAD27)
LONG. 107.778853° W (NAD27)

ENTRY POINT
LAT. 36.253355° N (NAD83)
LONG. 107.782561° W (NAD83)
LAT. 36.253343° N (NAD27)
LONG. 107.781946° W (NAD27)

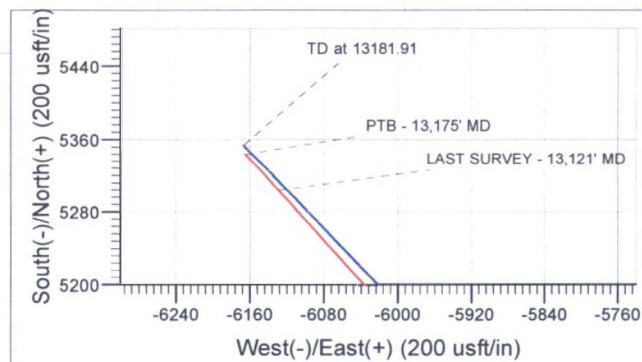
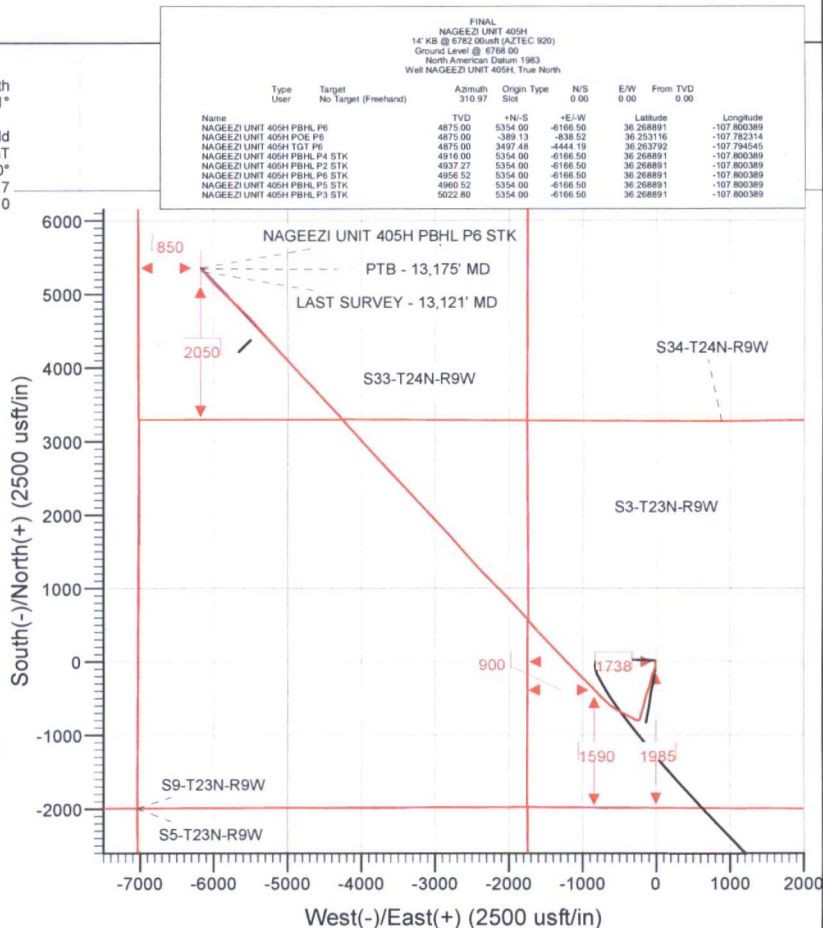
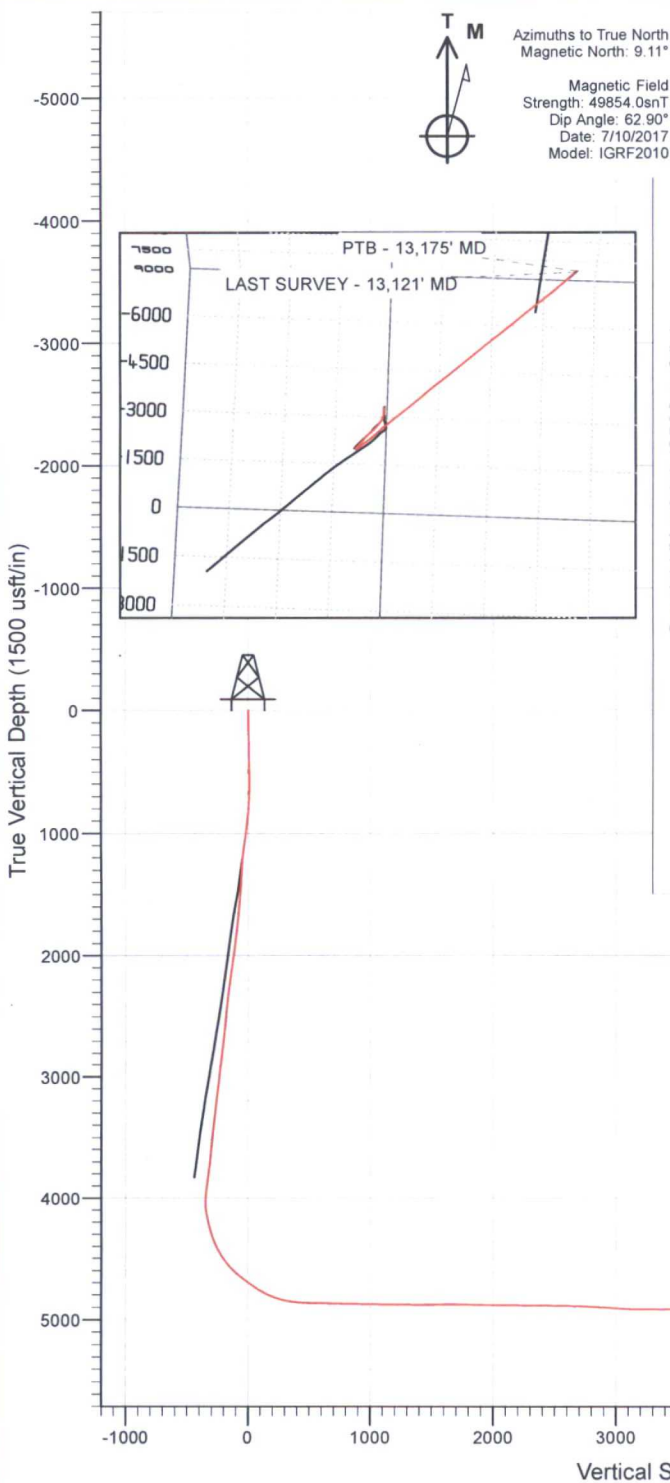
BOTTOM HOLE
LAT. 36.268762° N (NAD83)
LONG. 107.800249° W (NAD83)
LAT. 36.268750° N (NAD27)
LONG. 107.799634° W (NAD27)



Project: San Juan County, NM
 Site: S3-T23N-R9W
 Well: NAGEEZI UNIT 405H
 Wellbore: STK #1
 Design: FINAL

OIL CONS. DIV DIST. 3

AUG 31 2017



WELL DETAILS: NAGEEZI UNIT 405H

+N/-S 0.00 +E/-W 0.00 Northing 1911826.36 Ground Level: Easting 2738972.48 6768.00 Latitude 36.254185 Longitude -107.779470



Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NAGEEZI UNIT 405H
Project:	San Juan County, NM	TVD Reference:	14' KB @ 6782.00usft (AZTEC 920)
Site:	S3-T23N-R9W	MD Reference:	14' KB @ 6782.00usft (AZTEC 920)
Well:	NAGEEZI UNIT 405H	North Reference:	True
Wellbore:	STK #1	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	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		S3-T23N-R9W			
Site Position:		Northing:	1,911,826.36 usft	Latitude:	36.254185
From:	Lat/Long	Easting:	2,738,972.48 usft	Longitude:	-107.779470
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.03 °

Well	NAGEEZI UNIT 405H					
Well Position	+N/-S	0.00 usft	Northing:	1,911,826.36 usft	Latitude:	36.254185
	+E/-W	0.00 usft	Easting:	2,738,972.48 usft	Longitude:	-107.779470
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	6,768.00 usft

Wellbore	STK #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/10/2017	9.10	62.90	49,853.98769122

Design	FINAL			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 1,173.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	310.97

Survey Program	Date	7/21/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
376.00	1,173.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HDGM	
1,244.00	13,175.00	Survey #1 (STK #1)	MWD+HDGM	OWSG MWD + HDGM	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
376.00	1.45	334.67	375.96	4.30	-2.04	4.36	0.39	0.39		
437.00	1.36	296.70	436.94	5.32	-3.01	5.76	1.50	-0.15		
498.00	1.10	256.27	497.93	5.51	-4.23	6.80	1.45	-0.43		
560.00	1.63	238.25	559.91	4.90	-5.56	7.41	1.09	0.85		
622.00	2.42	209.07	621.87	3.30	-6.94	7.40	2.06	1.27		
683.00	3.43	197.82	682.79	0.43	-8.13	6.42	1.90	1.66		
744.00	4.66	186.83	743.64	-3.76	-8.98	4.31	2.37	2.02		
805.00	6.33	181.91	804.36	-9.59	-9.39	0.80	2.84	2.74		
867.00	8.17	179.27	865.86	-17.41	-9.44	-4.28	3.02	2.97		
928.00	9.71	175.67	926.12	-26.87	-9.00	-10.82	2.68	2.52		
989.00	10.11	172.42	986.21	-37.31	-7.91	-18.49	1.13	0.66		

Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S3-T23N-R9W
Well: NAGEEZI UNIT 405H
Wellbore: STK #1
Design: FINAL

Local Co-ordinate Reference: Well NAGEEZI UNIT 405H
TVD Reference: 14' KB @ 6782.00usft (AZTEC 920)
MD Reference: 14' KB @ 6782.00usft (AZTEC 920)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
1,050.00	11.21	175.23	1,046.16	-48.53	-6.71	-26.75	1.99	1.80	
1,112.00	11.47	178.57	1,106.95	-60.69	-6.05	-35.23	1.14	0.42	
1,173.00	12.70	184.46	1,166.60	-73.44	-6.42	-43.31	2.85	2.02	
1,244.00	11.34	200.81	1,236.06	-87.75	-9.51	-50.36	5.14	-1.92	
1,275.00	9.49	213.02	1,266.55	-92.75	-11.98	-51.76	9.26	-5.97	
1,397.00	14.24	202.13	1,385.92	-115.09	-23.13	-58.00	4.29	3.89	
1,520.00	13.84	202.30	1,505.25	-142.72	-34.41	-67.60	0.33	-0.33	
1,644.00	12.66	200.63	1,625.95	-169.16	-44.82	-77.07	1.00	-0.95	
1,767.00	13.98	193.25	1,745.64	-196.24	-52.98	-88.67	1.75	1.07	
1,887.00	16.08	194.83	1,861.53	-226.42	-60.55	-102.73	1.78	1.75	
2,009.00	15.69	192.55	1,978.87	-258.85	-68.46	-118.03	0.60	-0.32	
2,131.00	15.47	189.91	2,096.39	-290.98	-74.85	-134.27	0.61	-0.18	
2,253.00	17.45	197.12	2,213.40	-324.50	-83.04	-150.07	2.33	1.62	
2,375.00	17.84	196.50	2,329.66	-359.90	-93.73	-165.20	0.35	0.32	
2,498.00	17.23	203.80	2,446.96	-394.64	-106.43	-178.39	1.85	-0.50	
2,619.00	17.36	204.50	2,562.49	-427.46	-121.15	-188.80	0.20	0.11	
2,740.00	15.95	193.69	2,678.44	-460.05	-132.57	-201.54	2.81	-1.17	
2,862.00	13.18	196.59	2,796.51	-489.67	-140.51	-214.96	2.35	-2.27	
2,984.00	12.83	191.93	2,915.38	-516.26	-147.29	-227.28	0.91	-0.29	
3,105.00	12.96	192.72	3,033.33	-542.63	-153.05	-240.23	0.18	0.11	
3,228.00	13.49	192.02	3,153.07	-570.12	-159.07	-253.70	0.45	0.43	
3,351.00	13.32	192.02	3,272.72	-598.01	-165.01	-267.50	0.14	-0.14	
3,478.00	13.58	193.60	3,396.23	-626.81	-171.57	-281.44	0.35	0.20	
3,605.00	14.55	199.75	3,519.43	-656.32	-180.46	-294.07	1.40	0.76	
3,731.00	14.11	200.10	3,641.51	-685.64	-191.09	-305.27	0.36	-0.35	
3,850.00	16.79	193.86	3,756.21	-715.96	-200.19	-318.27	2.65	2.25	
3,986.00	16.00	193.51	3,886.68	-753.25	-209.28	-335.86	0.59	-0.58	
4,050.00	15.51	195.09	3,948.27	-770.09	-213.57	-343.67	1.02	-0.77	
4,113.00	14.24	204.68	4,009.17	-785.27	-219.00	-349.52	4.39	-2.02	
4,176.00	15.86	235.44	4,070.10	-797.21	-229.34	-349.54	12.78	2.57	
4,240.00	13.58	269.45	4,132.11	-802.25	-244.08	-341.71	13.75	-3.56	
4,303.00	14.37	287.91	4,193.28	-799.92	-258.92	-328.98	7.16	1.25	
4,366.00	14.94	295.55	4,254.23	-794.01	-273.69	-313.95	3.20	0.90	
4,431.00	19.34	301.71	4,316.34	-784.74	-290.42	-295.24	7.31	6.77	
4,494.00	24.21	300.48	4,374.82	-772.69	-310.44	-272.23	7.76	7.73	
4,557.00	27.47	301.18	4,431.52	-758.61	-334.01	-245.20	5.20	5.17	
4,620.00	33.22	298.45	4,485.87	-742.86	-361.64	-214.01	9.38	9.13	
4,683.00	39.02	297.40	4,536.73	-725.49	-394.45	-177.85	9.26	9.21	
4,746.00	43.73	296.34	4,584.00	-706.69	-431.59	-137.48	7.56	7.48	
4,809.00	50.32	296.52	4,626.92	-686.19	-472.84	-92.89	10.46	10.46	
4,872.00	53.57	298.81	4,665.75	-663.14	-516.75	-44.62	5.90	5.16	
4,935.00	53.17	303.46	4,703.35	-637.02	-560.01	5.17	5.96	-0.63	
4,998.00	56.43	309.26	4,739.68	-606.48	-601.40	56.45	9.13	5.17	
5,061.00	60.16	310.76	4,772.79	-572.02	-642.44	110.02	6.26	5.92	
5,124.00	65.65	312.60	4,801.47	-534.72	-684.29	166.08	9.09	8.71	
5,187.00	71.19	315.42	4,824.64	-494.02	-726.39	224.55	9.73	8.79	
5,251.00	76.11	316.21	4,842.65	-449.99	-769.17	285.72	7.78	7.69	
5,268.00	77.56	315.94	4,846.52	-438.07	-780.66	302.21	8.67	8.53	
5,305.00	80.02	316.38	4,853.72	-411.89	-805.79	338.35	6.75	6.65	
5,368.00	85.78	315.77	4,861.50	-366.89	-849.14	400.60	9.19	9.14	
5,458.00	88.99	315.86	4,865.61	-302.42	-911.80	490.17	3.57	3.57	
5,522.00	88.90	315.77	4,866.78	-256.54	-956.40	553.93	0.20	-0.14	
5,584.00	88.77	314.71	4,868.04	-212.52	-1,000.04	615.74	1.72	-0.21	

Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc
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Wellbore: STK #1
Design: FINAL

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MD Reference: 14' KB @ 6782.00usft (AZTEC 920)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
5,648.00	88.59	314.71	4,869.52	-167.51	-1,045.52	679.59	0.28	-0.28	
5,711.00	88.86	316.30	4,870.92	-122.58	-1,089.66	742.38	2.56	0.43	
5,774.00	89.17	316.21	4,872.00	-77.08	-1,133.21	805.10	0.51	0.49	
5,837.00	89.60	315.86	4,872.68	-31.73	-1,176.94	867.85	0.88	0.68	
5,900.00	88.64	316.21	4,873.65	13.60	-1,220.67	930.59	1.62	-1.52	
5,963.00	88.81	316.47	4,875.05	59.17	-1,264.16	993.30	0.49	0.27	
6,027.00	88.68	315.77	4,876.45	105.29	-1,308.51	1,057.03	1.11	-0.20	
6,090.00	89.78	315.94	4,877.30	150.49	-1,352.38	1,119.79	1.77	1.75	
6,154.00	90.44	316.47	4,877.17	196.69	-1,396.67	1,183.52	1.32	1.03	
6,216.00	90.13	318.58	4,876.87	242.42	-1,438.54	1,245.11	3.44	-0.50	
6,279.00	88.20	316.82	4,877.78	289.00	-1,480.93	1,307.67	4.15	-3.06	
6,342.00	88.46	316.12	4,879.62	334.66	-1,524.30	1,370.35	1.18	0.41	
6,404.00	89.65	316.47	4,880.64	379.47	-1,567.13	1,432.07	2.00	1.92	
6,467.00	90.84	318.05	4,880.37	425.74	-1,609.89	1,494.69	3.14	1.89	
6,531.00	92.37	319.64	4,878.58	473.91	-1,651.99	1,558.06	3.45	2.39	
6,594.00	91.49	320.25	4,876.46	522.10	-1,692.50	1,620.25	1.70	-1.40	
6,657.00	89.30	319.20	4,876.02	570.16	-1,733.23	1,682.51	3.86	-3.48	
6,720.00	88.51	317.88	4,877.23	617.36	-1,774.93	1,744.95	2.44	-1.25	
6,784.00	88.46	317.53	4,878.92	664.69	-1,817.98	1,808.49	0.55	-0.08	
6,847.00	88.95	317.44	4,880.34	711.11	-1,860.55	1,871.06	0.79	0.78	
6,910.00	89.08	316.74	4,881.43	757.25	-1,903.43	1,933.69	1.13	0.21	
6,973.00	89.30	316.65	4,882.32	803.09	-1,946.64	1,996.37	0.38	0.35	
7,037.00	89.34	316.74	4,883.08	849.66	-1,990.53	2,060.05	0.15	0.06	
7,099.00	89.65	315.77	4,883.62	894.45	-2,033.40	2,121.78	1.64	0.50	
7,162.00	89.74	317.53	4,883.96	940.26	-2,076.65	2,184.47	2.80	0.14	
7,226.00	89.52	316.21	4,884.37	986.96	-2,120.40	2,248.13	2.09	-0.34	
7,288.00	89.69	316.38	4,884.80	1,031.78	-2,163.23	2,309.86	0.39	0.27	
7,350.00	89.43	315.24	4,885.28	1,076.24	-2,206.45	2,371.63	1.89	-0.42	
7,413.00	88.90	314.10	4,886.19	1,120.52	-2,251.25	2,434.50	2.00	-0.84	
7,477.00	89.21	313.66	4,887.25	1,164.88	-2,297.37	2,498.40	0.84	0.48	
7,540.00	89.60	315.33	4,887.90	1,209.03	-2,342.31	2,561.28	2.72	0.62	
7,603.00	88.90	316.30	4,888.73	1,254.20	-2,386.21	2,624.05	1.90	-1.11	
7,666.00	88.15	317.00	4,890.35	1,299.99	-2,429.44	2,686.72	1.63	-1.19	
7,730.00	86.57	318.32	4,893.30	1,347.25	-2,472.50	2,750.21	3.22	-2.47	
7,794.00	86.40	317.88	4,897.22	1,394.79	-2,515.16	2,813.60	0.74	-0.27	
7,858.00	86.92	319.90	4,900.95	1,442.93	-2,557.17	2,876.87	3.25	0.81	
7,921.00	86.35	319.64	4,904.65	1,490.94	-2,597.79	2,939.02	0.99	-0.90	
7,984.00	86.31	319.02	4,908.68	1,538.63	-2,638.76	3,001.23	0.98	-0.06	
8,048.00	86.48	319.02	4,912.71	1,586.85	-2,680.65	3,064.47	0.27	0.27	
8,111.00	87.50	318.14	4,916.01	1,634.03	-2,722.27	3,126.83	2.14	1.62	
8,174.00	89.78	317.09	4,917.51	1,680.54	-2,764.72	3,189.38	3.98	3.62	
8,237.00	91.63	317.44	4,916.73	1,726.81	-2,807.47	3,252.00	2.99	2.94	
8,300.00	90.48	317.79	4,915.57	1,773.34	-2,849.93	3,314.56	1.91	-1.83	
8,363.00	90.13	317.79	4,915.24	1,820.00	-2,892.26	3,377.11	0.56	-0.56	
8,427.00	88.55	317.18	4,915.98	1,867.17	-2,935.50	3,440.69	2.65	-2.47	
8,490.00	88.29	316.91	4,917.71	1,913.26	-2,978.41	3,503.32	0.59	-0.41	
8,554.00	88.46	316.91	4,919.53	1,959.98	-3,022.12	3,566.95	0.27	0.27	
8,615.00	89.17	317.88	4,920.79	2,004.87	-3,063.40	3,627.55	1.97	1.16	
8,677.00	88.90	317.79	4,921.83	2,050.82	-3,105.01	3,689.10	0.46	-0.44	
8,738.00	90.44	317.09	4,922.19	2,095.74	-3,146.27	3,749.70	2.77	2.52	
8,799.00	90.04	317.35	4,921.93	2,140.52	-3,187.70	3,810.34	0.78	-0.66	
8,859.00	89.87	317.61	4,921.98	2,184.74	-3,228.25	3,869.95	0.52	-0.28	
8,921.00	90.62	317.18	4,921.71	2,230.37	-3,270.22	3,931.56	1.39	1.21	

Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S3-T23N-R9W
Well: NAGEEZI UNIT 405H
Wellbore: STK #1
Design: FINAL

Local Co-ordinate Reference: Well NAGEEZI UNIT 405H
TVD Reference: 14' KB @ 6782.00usft (AZTEC 920)
MD Reference: 14' KB @ 6782.00usft (AZTEC 920)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u	Formations / Comments
8,982.00	91.01	317.09	4,920.84	2,275.08	-3,311.71	3,992.20	0.66	0.64	
9,043.00	91.41	317.18	4,919.56	2,319.78	-3,353.20	4,052.84	0.67	0.66	
9,105.00	91.32	316.56	4,918.08	2,365.01	-3,395.57	4,114.49	1.01	-0.15	
9,166.00	90.53	317.00	4,917.09	2,409.46	-3,437.34	4,175.17	1.48	-1.30	
9,227.00	90.44	317.44	4,916.58	2,454.23	-3,478.77	4,235.81	0.74	-0.15	
9,288.00	90.66	316.47	4,915.99	2,498.81	-3,520.41	4,296.47	1.63	0.36	
9,350.00	90.35	315.51	4,915.45	2,543.40	-3,563.48	4,358.23	1.63	-0.50	
9,411.00	90.13	316.12	4,915.19	2,587.14	-3,605.99	4,419.01	1.06	-0.36	
9,474.00	90.75	317.18	4,914.71	2,632.95	-3,649.24	4,481.70	1.95	0.98	
9,537.00	89.87	318.32	4,914.37	2,679.58	-3,691.60	4,544.25	2.29	-1.40	
9,597.00	89.30	318.49	4,914.80	2,724.45	-3,731.43	4,603.75	0.99	-0.95	
9,657.00	89.17	317.61	4,915.60	2,769.07	-3,771.53	4,663.28	1.48	-0.22	
9,717.00	89.21	317.26	4,916.45	2,813.25	-3,812.11	4,722.90	0.59	0.07	
9,778.00	90.13	317.35	4,916.80	2,858.09	-3,853.48	4,783.52	1.52	1.51	
9,838.00	90.40	317.09	4,916.52	2,902.12	-3,894.23	4,843.16	0.62	0.45	
9,900.00	90.92	317.00	4,915.81	2,947.50	-3,936.47	4,904.81	0.85	0.84	
9,961.00	90.22	318.05	4,915.20	2,992.49	-3,977.66	4,965.41	2.07	-1.15	
10,022.00	90.04	318.67	4,915.06	3,038.07	-4,018.19	5,025.90	1.06	-0.30	
10,083.00	88.29	317.97	4,915.95	3,083.63	-4,058.75	5,086.39	3.09	-2.87	
10,145.00	88.59	317.44	4,917.64	3,129.47	-4,100.46	5,147.94	0.98	0.48	
10,205.00	87.80	318.14	4,919.53	3,173.89	-4,140.75	5,207.49	1.76	-1.32	
10,267.00	87.23	318.41	4,922.22	3,220.12	-4,181.97	5,268.92	1.02	-0.92	
10,328.00	87.23	317.70	4,925.17	3,265.44	-4,222.70	5,329.39	1.16	0.00	
10,388.00	86.62	317.09	4,928.39	3,309.53	-4,263.25	5,388.92	1.44	-1.02	
10,449.00	86.27	316.56	4,932.17	3,353.93	-4,304.91	5,449.49	1.04	-0.57	
10,510.00	87.19	315.86	4,935.65	3,397.90	-4,347.06	5,510.13	1.89	1.51	
10,570.00	88.99	316.30	4,937.65	3,441.09	-4,388.65	5,569.86	3.09	3.00	
10,631.00	89.39	315.59	4,938.51	3,484.92	-4,431.06	5,630.62	1.34	0.66	
10,692.00	91.14	317.26	4,938.23	3,529.11	-4,473.11	5,691.34	3.97	2.87	
10,753.00	90.84	318.14	4,937.17	3,574.22	-4,514.15	5,751.91	1.52	-0.49	
10,814.00	91.23	317.44	4,936.07	3,619.40	-4,555.13	5,812.47	1.31	0.64	
10,875.00	91.01	317.00	4,934.88	3,664.16	-4,596.55	5,873.10	0.81	-0.36	
10,935.00	91.98	317.44	4,933.31	3,708.18	-4,637.29	5,932.72	1.78	1.62	
10,996.00	90.92	317.88	4,931.77	3,753.26	-4,678.36	5,993.28	1.88	-1.74	
11,058.00	89.30	315.33	4,931.65	3,798.30	-4,720.95	6,054.98	4.87	-2.61	
11,118.00	89.00	315.00	4,932.54	3,840.85	-4,763.25	6,114.81	0.74	-0.50	
11,180.00	88.42	317.53	4,933.94	3,885.63	-4,806.10	6,176.52	4.19	-0.94	
11,242.00	90.44	318.67	4,934.55	3,931.77	-4,847.50	6,238.04	3.74	3.26	
11,303.00	91.27	318.58	4,933.64	3,977.54	-4,887.81	6,298.48	1.37	1.36	
11,364.00	88.86	317.88	4,933.57	4,023.03	-4,928.44	6,358.99	4.11	-3.95	
11,425.00	87.32	316.74	4,935.61	4,067.84	-4,969.78	6,419.58	3.14	-2.52	
11,486.00	88.90	317.09	4,937.62	4,112.37	-5,011.42	6,480.22	2.65	2.59	
11,548.00	89.96	318.05	4,938.24	4,158.12	-5,053.25	6,541.80	2.31	1.71	
11,609.00	89.96	317.79	4,938.28	4,203.40	-5,094.13	6,602.35	0.43	0.00	
11,670.00	90.70	317.97	4,937.93	4,248.64	-5,135.04	6,662.91	1.25	1.21	
11,731.00	89.60	317.70	4,937.77	4,293.86	-5,175.99	6,723.47	1.86	-1.80	
11,792.00	89.47	318.14	4,938.26	4,339.13	-5,216.87	6,784.02	0.75	-0.21	
11,852.00	89.96	318.14	4,938.56	4,383.82	-5,256.90	6,843.55	0.82	0.82	
11,914.00	90.00	318.76	4,938.58	4,430.22	-5,298.03	6,905.02	1.00	0.06	
11,975.00	88.46	318.84	4,939.40	4,476.11	-5,338.20	6,965.45	2.53	-2.52	
12,036.00	88.29	319.02	4,941.13	4,522.08	-5,378.26	7,025.83	0.41	-0.28	
12,097.00	89.08	319.37	4,942.53	4,568.24	-5,418.11	7,086.19	1.42	1.30	
12,158.00	89.69	319.81	4,943.19	4,614.68	-5,457.65	7,146.50	1.23	1.00	

Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S3-T23N-R9W
Well: NAGEEZI UNIT 405H
Wellbore: STK #1
Design: FINAL

Local Co-ordinate Reference: Well NAGEEZI UNIT 405H
TVD Reference: 14' KB @ 6782.00usft (AZTEC 920)
MD Reference: 14' KB @ 6782.00usft (AZTEC 920)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
12,219.00	88.64	318.49	4,944.08	4,660.82	-5,497.55	7,206.87	2.76	-1.72	
12,283.00	88.46	316.03	4,945.70	4,707.80	-5,540.97	7,270.46	3.85	-0.28	
12,347.00	87.89	314.63	4,947.73	4,753.29	-5,585.93	7,334.24	2.36	-0.89	
12,410.00	88.33	314.10	4,949.81	4,797.32	-5,630.95	7,397.09	1.09	0.70	
12,474.00	88.99	314.27	4,951.31	4,841.91	-5,676.83	7,460.97	1.06	1.03	
12,537.00	89.60	313.92	4,952.08	4,885.75	-5,722.07	7,523.88	1.12	0.97	
12,601.00	90.44	314.10	4,952.06	4,930.22	-5,768.10	7,587.79	1.34	1.31	
12,665.00	90.57	313.04	4,951.50	4,974.32	-5,814.47	7,651.72	1.67	0.20	
12,728.00	90.66	313.13	4,950.82	5,017.36	-5,860.48	7,714.67	0.20	0.14	
12,791.00	91.85	314.98	4,949.44	5,061.15	-5,905.74	7,777.56	3.49	1.89	
12,855.00	91.63	316.38	4,947.50	5,106.92	-5,950.43	7,841.31	2.21	-0.34	
12,917.00	93.78	317.35	4,944.57	5,152.11	-5,992.77	7,902.91	3.80	3.47	
12,980.00	92.77	317.97	4,940.97	5,198.60	-6,035.14	7,965.38	1.88	-1.60	
13,043.00	89.52	318.58	4,939.71	5,245.60	-6,077.05	8,027.85	5.25	-5.16	
13,106.00	87.98	318.23	4,941.09	5,292.70	-6,118.86	8,090.30	2.51	-2.44	
13,121.00	88.29	318.14	4,941.58	5,303.88	-6,128.86	8,105.17	2.15	2.07	LAST SURVEY - 13,121' MD
13,175.00	88.29	318.24	4,943.19	5,344.11	-6,164.84	8,158.72	0.19	0.00	PTB - 13,175' MD

Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S3-T23N-R9W
Well: NAGEEZI UNIT 405H
Wellbore: STK #1
Design: FINAL

Local Co-ordinate Reference: Well NAGEEZI UNIT 405H
TVD Reference: 14' KB @ 6782.00usft (AZTEC 920)
MD Reference: 14' KB @ 6782.00usft (AZTEC 920)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA EDM 5000 Multi Users DB

Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
NAGEEZI UNIT 405H PI	90.40	317.15	4,875.00	5,354.00	-6,166.50	1,917,176.93	2,732,803.00	36.268891	-107.800389
- actual wellpath misses target center by 68.92usft at 13175.00usft MD (4943.19 TVD, 5344.11 N, -6164.84 E)									
- Rectangle (sides W0.00 H20.00 D5,000.00)									
NAGEEZI UNIT 405H PI	90.50	317.15	4,937.27	5,354.00	-6,166.50	1,917,176.93	2,732,803.00	36.268891	-107.800389
- actual wellpath misses target center by 11.64usft at 13175.00usft MD (4943.19 TVD, 5344.11 N, -6164.84 E)									
- Rectangle (sides W0.00 H20.00 D5,000.00)									
NAGEEZI UNIT 405H T1	0.00	0.00	4,875.00	3,497.48	-4,444.19	1,915,321.37	2,734,526.35	36.263792	-107.794545
- actual wellpath misses target center by 63.63usft at 10649.44usft MD (4938.62 TVD, 3498.15 N, -4443.91 E)									
- Point									
NAGEEZI UNIT 405H PI	90.50	317.15	5,022.80	5,354.00	-6,166.50	1,917,176.93	2,732,803.00	36.268891	-107.800389
- actual wellpath misses target center by 80.24usft at 13175.00usft MD (4943.19 TVD, 5344.11 N, -6164.84 E)									
- Rectangle (sides W0.00 H20.00 D5,000.00)									
NAGEEZI UNIT 405H PI	90.40	317.15	4,956.52	5,354.00	-6,166.50	1,917,176.93	2,732,803.00	36.268891	-107.800389
- actual wellpath misses target center by 16.68usft at 13175.00usft MD (4943.19 TVD, 5344.11 N, -6164.84 E)									
- Rectangle (sides W0.00 H20.00 D5,000.00)									
NAGEEZI UNIT 405H PI	90.00	317.15	4,916.00	5,354.00	-6,166.50	1,917,176.93	2,732,803.00	36.268891	-107.800389
- actual wellpath misses target center by 28.98usft at 13175.00usft MD (4943.19 TVD, 5344.11 N, -6164.84 E)									
- Rectangle (sides W0.00 H20.00 D5,000.00)									
NAGEEZI UNIT 405H PI	90.00	317.15	4,960.52	5,354.00	-6,166.50	1,917,176.93	2,732,803.00	36.268891	-107.800389
- actual wellpath misses target center by 20.02usft at 13175.00usft MD (4943.19 TVD, 5344.11 N, -6164.84 E)									
- Rectangle (sides W0.00 H20.00 D5,000.00)									
NAGEEZI UNIT 405H PI	0.00	0.00	4,875.00	-389.13	-838.52	1,911,436.77	2,738,134.17	36.253116	-107.782314
- actual wellpath misses target center by 17.44usft at 5346.45usft MD (4859.54 TVD, -382.29 N, -834.20 E)									
- Point									

Design Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
13,121.00	4,941.58	5,303.88	-6,128.86	LAST SURVEY - 13,121' MD
13,175.00	4,943.19	5,344.11	-6,164.84	PTB - 13,175' MD

Checked By: _____ Approved By: _____ Date: _____