



30-015-39891

Cimarex Energy Company

Eddy County, NM (NAD-83)

Irwin 23-14

#1H

OH

Design: OH

Standard Survey Report

14 April, 2012





Leam Drilling Systems
Survey Report



Company:	Cimarex Energy Company	Local Co-ordinate Reference:	Well #1H:
Project:	Eddy County, NM (NAD-83)	TVD Reference:	WELL @ 3305.5usft (Scandrift Eagle - 25.5' KB)
Site:	Irwin 23-14	MD Reference:	WELL @ 3305.5usft (Scandrift Eagle - 25.5' KB)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland (Permian Basin) Database

Project	Eddy County, NM (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Irwin 23-14		
Site Position:		Northing:	600,253.00 usft
From:	Map	Easting:	663,522.30 usft
Position Uncertainty:	2.0 usft	Slot Radius:	7-7/8"
		Latitude:	32° 38' 58.255 N
		Longitude:	103° 56' 10.864 W
		Grid Convergence:	0.21°

Well	#1H		
Well Position	+N/-S	0.0 usft	Northing: 600,253.00 usft
	+E/-W	0.0 usft	Easting: 663,522.30 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 38' 58.255 N
		Longitude:	103° 56' 10.864 W
		Ground Level:	3,280.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	03/01/12	(°) 7.70
			Dip Angle (°) 60.50
			Field Strength (nT) 48,762

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	8,034.8
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction (°) 0.14

Survey Program	Date: 04/14/12		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
93.8	8,034.8	Survey #1 - Scientific Gyro (Pilot Hole)	CB-GYRO-MS
8,086.0	14,420.0	Survey #2 - LEAM1 (OH)	MWD
14,548.0	14,548.0	Survey #3 - PTB (OH)	Project
			Description
			Camera based gyro multishot
			MWD - Standard
			Projection

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
93.8	0.75	220.05	93.8	-0.5	-0.4	-0.5	0.80	0.80	0.00
186.8	1.41	224.68	186.8	-1.7	-1.6	-1.8	0.72	0.71	4.98
279.8	1.94	218.43	279.7	-3.8	-3.4	-3.8	0.60	0.57	-6.72
372.7	1.75	232.73	372.6	-5.9	-5.5	-5.9	0.53	-0.20	15.38
460.8	1.77	219.84	460.7	-7.7	-7.4	-7.8	0.45	0.02	-14.63
555.5	1.77	219.74	555.3	-10.0	-9.3	-10.0	0.00	0.00	-0.11
650.2	1.55	218.14	650.0	-12.1	-11.0	-12.2	0.24	-0.23	-1.69
744.9	1.53	221.88	744.7	-14.1	-12.7	-14.1	0.11	-0.02	3.95



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Site:	Irwin 23-14	MD Reference:	WELL @ 3305 Susft (Scandril/Eagle -25.5' KB)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland (Permian Basin) Database

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
839.6	1.43	212.70	839.4	-16.0	-14.1	-16.0	0.27	-0.11	-9.69
934.4	0.74	172.34	934.0	-17.6	-14.7	-17.6	1.05	-0.73	-42.61
1,029.1	0.87	103.87	1,028.7	-18.4	-13.9	-18.4	0.96	0.14	-72.29
1,123.8	1.29	63.34	1,123.4	-18.1	-12.3	-18.1	0.89	0.44	-42.79
1,218.5	1.79	57.46	1,218.1	-16.8	-10.1	-16.8	0.55	0.53	-6.21
1,313.2	2.03	50.71	1,312.8	-15.0	-7.5	-15.0	0.35	0.25	-7.13
1,407.9	2.56	46.28	1,407.4	-12.4	-4.7	-12.4	0.59	0.56	-4.68
1,502.6	2.88	45.16	1,502.0	-9.3	-1.5	-9.3	0.34	0.34	-1.18
1,597.3	2.42	48.25	1,596.6	-6.3	1.7	-6.3	0.51	-0.49	3.26
1,692.0	1.77	55.79	1,691.3	-4.1	4.4	-4.1	0.74	-0.69	7.96
1,786.7	1.51	62.74	1,785.9	-2.7	6.7	-2.7	0.35	-0.27	7.34
1,881.5	1.21	69.03	1,880.6	-1.8	8.8	-1.8	0.35	-0.32	6.64
1,976.2	0.88	77.48	1,975.3	-1.3	10.4	-1.3	0.38	-0.35	8.92
2,070.9	0.76	72.39	2,070.0	-0.9	11.7	-0.9	0.15	-0.13	-5.37
2,165.6	0.71	67.10	2,164.7	-0.5	12.9	-0.5	0.09	-0.05	-5.59
2,260.3	1.08	54.48	2,259.4	0.2	14.1	0.3	0.44	0.39	-13.32
2,355.0	1.28	48.07	2,354.1	1.5	15.6	1.5	0.25	0.21	-6.77
2,449.7	1.13	54.11	2,448.8	2.7	17.2	2.7	0.21	-0.16	6.38
2,544.4	1.07	53.01	2,543.5	3.8	18.6	3.8	0.07	-0.06	-1.16
2,639.1	0.88	55.97	2,638.2	4.7	20.0	4.8	0.21	-0.20	3.13
2,733.8	0.54	69.61	2,732.9	5.3	21.0	5.3	0.40	-0.36	14.40
2,828.6	0.50	66.68	2,827.6	5.6	21.8	5.7	0.05	-0.04	-3.09
2,923.3	0.52	61.17	2,922.3	6.0	22.5	6.0	0.06	0.02	-5.82
3,018.0	0.55	57.96	3,017.0	6.4	23.3	6.5	0.04	0.03	-3.39
3,112.7	0.52	70.53	3,111.7	6.8	24.1	6.9	0.13	-0.03	13.27
3,207.4	0.57	88.92	3,206.4	7.0	25.0	7.0	0.19	0.05	19.42
3,302.1	0.25	71.27	3,301.1	7.0	25.6	7.1	0.36	-0.34	-18.64
3,396.8	0.55	276.71	3,395.8	7.2	25.4	7.2	0.83	0.32	-163.19
3,493.6	0.99	265.86	3,492.7	7.2	24.1	7.2	0.48	0.45	-11.21
3,587.6	1.05	268.34	3,586.6	7.1	22.4	7.1	0.08	0.06	2.64
3,681.5	1.14	270.79	3,680.5	7.1	20.6	7.1	0.11	0.10	2.61
3,775.5	0.85	274.01	3,774.5	7.1	19.0	7.2	0.31	-0.31	3.43
3,869.4	0.69	282.96	3,868.4	7.3	17.7	7.3	0.21	-0.17	9.53
3,964.1	0.33	320.72	3,963.0	7.6	17.0	7.7	0.50	-0.38	39.91
4,056.0	0.27	27.26	4,055.0	8.0	16.9	8.1	0.36	-0.07	72.34
4,150.8	0.44	107.56	4,149.7	8.1	17.4	8.2	0.50	0.18	84.77
4,245.5	0.42	126.18	4,244.4	7.8	18.0	7.8	0.15	-0.02	19.66
4,340.2	0.45	75.65	4,339.2	7.7	18.7	7.7	0.39	0.03	-53.34
4,435.0	0.59	36.87	4,433.9	8.2	19.3	8.2	0.39	0.15	-40.94
4,529.7	0.65	359.80	4,528.6	9.1	19.6	9.1	0.42	0.06	-39.13
4,624.4	0.70	344.80	4,623.3	10.2	19.4	10.2	0.19	0.05	-15.83
4,719.1	0.77	326.36	4,718.1	11.3	18.9	11.3	0.26	0.07	-19.47
4,813.9	0.58	323.82	4,812.8	12.2	18.3	12.2	0.20	-0.20	-2.68



Leam Drilling Systems
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Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland (Permian Basin) Database

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (%/100usft)	Build Rate (%/100usft)	Turn Rate (%/100usft)
4,908.6	0.39	300.99	4,907.5	12.8	17.7	12.8	0.28	-0.20	-24.10
5,003.3	0.56	225.28	5,002.2	12.6	17.1	12.6	0.63	0.18	-79.92
5,098.1	1.21	197.89	5,097.0	11.3	16.5	11.4	0.80	0.69	-28.91
5,192.8	1.37	196.63	5,191.7	9.3	15.9	9.3	0.17	0.17	-1.33
5,287.5	1.12	202.71	5,286.4	7.3	15.2	7.4	0.30	-0.26	6.42
5,382.3	0.98	207.05	5,381.1	5.8	14.5	5.8	0.17	-0.15	4.58
5,477.0	0.89	209.61	5,475.8	4.4	13.7	4.4	0.10	-0.10	2.70
5,571.7	0.85	210.36	5,570.5	3.2	13.0	3.2	0.04	-0.04	0.79
5,666.4	0.71	218.31	5,665.2	2.1	12.3	2.1	0.19	-0.15	8.39
5,761.2	0.57	223.65	5,760.0	1.3	11.6	1.3	0.16	-0.15	5.64
5,855.9	0.44	228.45	5,854.7	0.7	11.0	0.7	0.14	-0.14	5.07
5,950.6	0.30	226.67	5,949.4	0.3	10.6	0.3	0.15	-0.15	-1.88
6,045.4	0.17	222.36	6,044.2	0.0	10.3	0.0	0.14	-0.14	-4.55
6,140.1	0.12	228.74	6,138.9	-0.1	10.1	-0.1	0.06	-0.05	6.73
6,234.8	0.13	332.94	6,233.6	-0.1	10.0	-0.1	0.21	0.01	110.00
6,329.6	0.35	355.45	6,328.3	0.3	9.9	0.3	0.25	0.23	23.76
6,424.3	0.62	356.63	6,423.1	1.1	9.9	1.1	0.29	0.29	1.25
6,519.0	0.74	346.37	6,517.8	2.2	9.7	2.2	0.18	0.13	-10.83
6,613.7	0.67	337.21	6,612.5	3.3	9.3	3.3	0.14	-0.07	-9.67
6,708.5	0.49	333.97	6,707.2	4.2	8.9	4.2	0.19	-0.19	-3.42
6,803.2	0.73	356.90	6,802.0	5.1	8.7	5.1	0.36	0.25	24.21
6,897.8	1.44	13.43	6,896.6	6.9	9.0	6.9	0.81	0.75	17.47
6,992.2	1.95	13.99	6,990.9	9.6	9.6	9.6	0.54	0.54	0.59
7,087.4	2.28	8.69	7,086.0	13.0	10.3	13.1	0.40	0.35	-5.57
7,181.5	2.22	11.22	7,180.1	16.7	10.9	16.7	0.12	-0.06	2.69
7,276.6	2.62	18.97	7,275.1	20.5	12.0	20.6	0.54	0.42	8.15
7,375.8	2.38	17.84	7,374.2	24.6	13.4	24.7	0.25	-0.24	-1.14
7,469.9	1.79	16.66	7,468.2	27.9	14.4	27.9	0.63	-0.63	-1.25
7,564.1	1.17	4.99	7,562.4	30.3	14.9	30.3	0.73	-0.66	-12.40
7,658.2	0.85	358.63	7,656.5	31.9	15.0	32.0	0.36	-0.34	-6.76
7,752.3	0.75	357.60	7,750.6	33.2	14.9	33.3	0.11	-0.11	-1.09
7,846.5	0.57	345.05	7,844.7	34.3	14.8	34.3	0.24	-0.19	-13.33
7,940.6	0.31	304.63	7,938.9	34.9	14.5	34.9	0.41	-0.28	-42.94
8,034.8	0.15	244.90	8,033.1	35.0	14.1	35.0	0.28	-0.17	-63.43
Tie into Pilot Hole @ 8034.8 MD									
8,086.0	0.50	86.20	8,084.3	35.0	14.3	35.0	1.25	0.68	-309.96
8,179.0	4.30	12.90	8,177.2	38.4	15.5	38.4	4.50	4.09	-78.82
8,210.0	9.10	3.60	8,207.9	42.0	15.9	42.0	15.82	15.48	-30.00
8,242.0	14.20	3.80	8,239.3	48.4	16.3	48.5	15.94	15.94	0.63
8,273.0	19.50	3.10	8,268.9	57.4	16.8	57.4	17.11	17.10	-2.26
8,303.0	24.80	4.50	8,296.7	68.7	17.6	68.7	17.75	17.67	4.67
8,338.0	30.50	4.00	8,327.7	84.9	18.8	84.9	16.30	16.29	-1.43
8,370.0	36.30	2.90	8,354.4	102.5	19.8	102.5	18.22	18.13	-3.44
8,402.0	42.00	1.50	8,379.2	122.6	20.6	122.7	18.02	17.81	-4.38



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Survey Report



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland(Permian Basin) Database

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,433.0	47.70	1.30	8,401.2	144.5	21.1	144.5	18.39	18.39	-0.65
8,465.0	53.90	1.20	8,421.4	169.3	21.7	169.3	19.38	19.38	-0.31
8,496.0	60.70	359.40	8,438.1	195.3	21.8	195.4	22.47	21.94	-5.81
8,529.0	67.60	356.90	8,452.5	225.0	20.8	225.0	21.99	20.91	-7.58
8,561.0	72.00	356.80	8,463.6	255.0	19.2	255.0	13.75	13.75	-0.31
8,593.0	73.60	356.60	8,473.0	285.5	17.4	285.5	5.04	5.00	-0.63
8,625.0	77.60	356.60	8,481.0	316.4	15.6	316.5	12.50	12.50	0.00
8,656.0	82.30	357.30	8,486.4	346.9	14.0	346.9	15.32	15.16	2.26
8,688.0	84.90	358.30	8,489.9	378.7	12.7	378.7	8.70	8.13	3.13
8,748.0	85.30	358.90	8,495.1	438.4	11.3	438.5	1.20	0.67	1.00
8,843.0	86.80	359.90	8,501.6	533.2	10.3	533.2	1.90	1.58	1.05
8,938.0	89.60	0.30	8,504.6	628.1	10.4	628.2	2.98	2.95	0.42
8,967.0	90.00	0.33	8,504.7	657.1	10.6	657.2	1.39	1.38	0.11
EOC - 8967.0' MD, 90.00° INC, 0.33° AZI, 8504.7' TVD, 657.1' N, 10.6' E									
9,032.0	90.90	0.40	8,504.2	722.1	11.0	722.2	1.39	1.38	0.11
9,127.0	91.50	0.40	8,502.2	817.1	11.7	817.1	0.63	0.63	0.00
9,221.0	90.00	359.90	8,501.0	911.1	11.9	911.1	1.68	-1.60	-0.53
9,316.0	90.70	359.60	8,500.4	1,006.1	11.5	1,006.1	0.80	0.74	-0.32
9,411.0	91.10	359.60	8,498.9	1,101.1	10.9	1,101.1	0.42	0.42	0.00
9,505.0	89.80	359.90	8,498.2	1,195.1	10.4	1,195.1	1.42	-1.38	0.32
9,600.0	90.60	359.00	8,497.8	1,290.1	9.5	1,290.1	1.27	0.84	-0.95
9,694.0	89.80	359.00	8,497.5	1,384.1	7.9	1,384.1	0.85	-0.85	0.00
9,789.0	90.70	359.20	8,497.1	1,479.0	6.4	1,479.1	0.97	0.95	0.21
9,884.0	89.90	359.70	8,496.6	1,574.0	5.5	1,574.0	0.99	-0.84	0.53
9,978.0	90.30	0.30	8,496.4	1,668.0	5.5	1,668.0	0.77	0.43	0.64
10,073.0	90.70	359.60	8,495.6	1,763.0	5.4	1,763.0	0.85	0.42	-0.74
10,168.0	91.50	359.00	8,493.8	1,858.0	4.2	1,858.0	1.05	0.84	-0.63
10,262.0	90.70	359.60	8,492.0	1,952.0	3.1	1,952.0	1.06	-0.85	0.64
10,357.0	89.50	1.20	8,491.8	2,047.0	3.8	2,047.0	2.11	-1.26	1.68
10,451.0	90.70	1.70	8,491.6	2,140.9	6.1	2,140.9	1.38	1.28	0.53
10,546.0	88.20	1.20	8,492.6	2,235.9	8.5	2,235.9	2.68	-2.63	-0.53
10,640.0	88.60	0.40	8,495.2	2,329.8	9.9	2,329.9	0.95	0.43	-0.85
10,735.0	88.90	359.90	8,497.2	2,424.8	10.1	2,424.8	0.61	0.32	-0.53
10,829.0	88.70	0.10	8,499.2	2,518.8	10.1	2,518.8	0.30	-0.21	0.21
10,924.0	89.30	0.10	8,500.9	2,613.8	10.3	2,613.8	0.63	0.63	0.00
11,019.0	89.50	0.30	8,501.9	2,708.8	10.6	2,708.8	0.30	0.21	0.21
11,113.0	88.80	0.10	8,503.3	2,802.8	10.9	2,802.8	0.77	-0.74	-0.21
11,208.0	89.40	0.40	8,504.8	2,897.8	11.3	2,897.8	0.71	0.63	0.32
11,303.0	90.90	0.60	8,504.5	2,992.8	12.2	2,992.8	1.59	1.58	0.21
11,397.0	91.30	1.70	8,502.7	3,086.7	14.1	3,086.7	1.24	0.43	1.17
11,492.0	91.10	1.90	8,500.7	3,181.6	17.0	3,181.7	0.30	-0.21	0.21
11,587.0	89.60	1.70	8,500.1	3,276.6	20.0	3,276.6	1.59	-1.58	-0.21
11,681.0	88.60	2.00	8,501.6	3,370.5	23.1	3,370.6	1.11	-1.06	0.32



Leam Drilling Systems Survey Report



Company:	Cimarex Energy Company	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	WELL @ 3305 5usft (Scandril Eagle - 25 5' KB)
Site:	Irwin 23-14	MD Reference:	WELL @ 3305 5usft (Scandril Eagle - 25 5' KB)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland(Permian Basin) Database

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,775 0	89 10	2 00	8,503.5	3,464 5	26 3	3,464 5	0.53	0 53	0 00
11,870 0	89 30	2 00	8,504 8	3,559 4	29 7	3,559 5	0 21	0 21	0 00
11,965 0	90 00	1 90	8,505 4	3,654 3	32 9	3,654 4	0 74	0 74	-0 11
12,060 0	90 70	1 90	8,504 8	3,749 3	36 0	3,749 4	0 74	0.74	0 00
12,155 0	89 40	1 20	8,504 7	3,844 2	38 6	3,844 3	1 55	-1.37	-0 74
12,250 0	90 00	1 20	8,505 2	3,939 2	40.6	3,939 3	0.63	0.63	0 00
12,345 0	90 40	1.30	8,504 9	4,034 2	42 7	4,034 3	0 43	0 42	0 11
12,439 0	89.70	359 90	8,504 8	4,128 2	43 7	4,128 3	1 67	-0 74	-1 49
12,534 0	90 30	359 70	8,504 8	4,223 2	43 3	4,223 3	0 67	0 63	-0 21
12,628 0	90 50	358.50	8,504 2	4,317 2	41.8	4,317 3	1 29	0 21	-1 28
12,724.0	90 20	358.20	8,503 6	4,413 1	39 1	4,413.2	0 44	-0.31	-0.31
12,818 0	88 50	357.50	8,504 6	4,507 1	35 6	4,507 1	1 96	-1.81	-0 74
12,913 0	89 30	357 80	8,506 5	4,602.0	31.7	4,602 0	0.90	0.84	0 32
13,007 0	90 00	357 60	8,507.0	4,695 9	27 9	4,695 9	0 77	0 74	-0.21
13,101 0	90 70	356.90	8,506 5	4,789 8	23 4	4,789 8	1 05	0 74	-0 74
13,195 0	90.00	357 60	8,505 9	4,883 7	18 9	4,883 7	1 05	-0 74	0 74
13,290 0	91.20	358 50	8,504 9	4,978 6	15 6	4,978 6	1 58	1.26	0.95
13,384 0	90 30	359 00	8,503 7	5,072 6	13 6	5,072 6	1.10	-0 96	0 53
13,477 0	89 40	358 70	8,503 9	5,165 5	11 7	5,165 6	1 02	-0 97	-0 32
13,572 0	90 00	358 70	8,504 4	5,260 5	9 6	5,260 5	0 63	0 63	0 00
13,666 0	89 40	359 90	8,504 9	5,354 5	8 4	5,354 5	1 43	-0 64	1 28
13,760 0	90 10	359.70	8,505.3	5,448 5	8 1	5,448 5	0 77	0 74	-0 21
13,855 0	90 70	359 00	8,504 7	5,543 5	7 0	5,543 5	0 97	0 63	-0 74
13,949 0	90 00	359 90	8,504 1	5,637 5	6 1	5,637 5	1 21	-0 74	0 96
14,045.0	90 90	0 10	8,503 3	5,733 5	6 1	5,733 5	0 96	0.94	0 21
14,138 0	89 40	0 10	8,503 1	5,826 5	6 3	5,826 5	1 61	-1 61	0 00
14,232 0	90 10	359.70	8,503 5	5,920 5	6.1	5,920 5	0 86	0 74	-0 43
14,326 0	91.10	359 00	8,502 5	6,014 5	5 0	6,014 5	1 30	1 06	-0 74
14,420 0	90 90	358 20	8,500 9	6,108 4	2 7	6,108 4	0 88	-0 21	-0 85
14,548 0	91 50	358 20	8,498 2	6,236 3	-1 3	6,236 3	0 47	0 47	0 00
BHL - 14548.0'MD, 91.50°INC, 358.20°AZI, 8498.2'TVD, 6236.3'N, -1.3'E									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,034 8	8,033 1	35 0	14 1	Tie into Pilot Hole @ 8034 8 MD
8,967 0	8,504 7	657 1	10.6	EOC - 8967.0'MD, 90 00°INC, 0 33°AZI, 8504 7'TVD, 657 1'N, 10 6'E
14,548 0	8,498 2	6,236 3	-1.3	BHL - 14548 0'MD, 91 50°INC, 358 20°AZI, 8498 2'TVD, 6236.3'N, -1.3'E

Checked By: _____ Approved By: _____ Date: _____