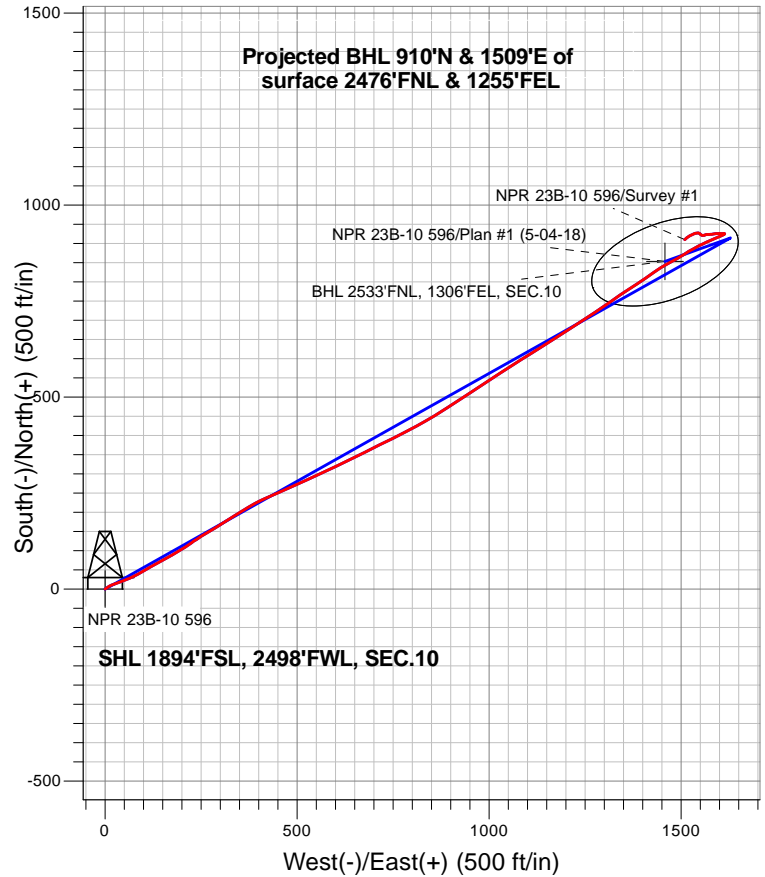


Caerus Oil and Gas LLC



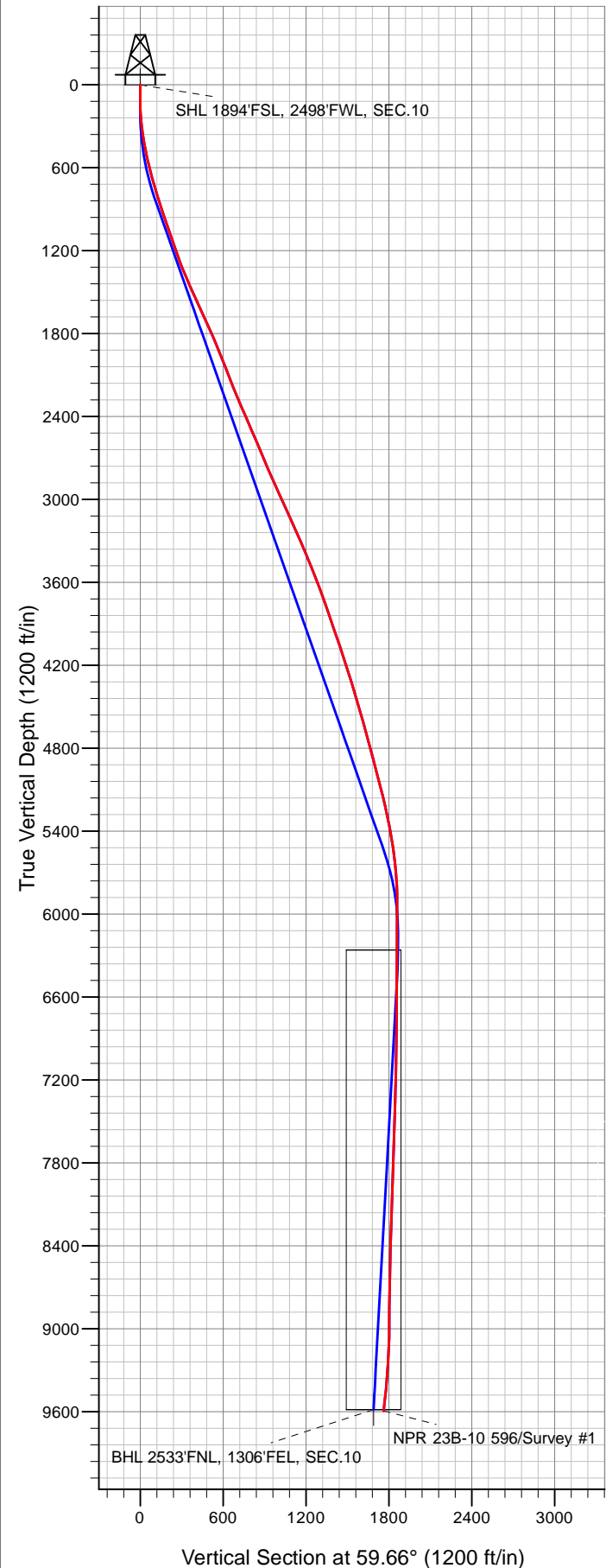
LEGEND

- ▲ NPR 23B-10 596, NPR 23B-10 596 Wellbore #1, Plan #1 (5-04-18) V0
- NPR 23B-10 596 Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
9,925'MD & 9594' TVD @ 1509.18'VS
6.1 deg Inc 231.7 deg AZ

Project: SEC.10-T5S-R96W
Site: K10 596 Pad Sec.10-T5S-R96W
Well: NPR 23B-10 596
Plan: NPR 23B-10 596 Wellbore #1





Caerus Oil and Gas LLC

SEC.10-T5S-R96W

K10 596 Pad Sec.10-T5S-R96W

NPR 23B-10 596

NPR 23B-10 596 Wellbore #1

Survey: Survey #1

Standard Survey Report

14 May, 2018

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 23B-10 596
Project:	SEC.10-T5S-R96W	TVD Reference:	WELL @ 6733.0ft (Original Well Elev)
Site:	K10 596 Pad Sec.10-T5S-R96W	MD Reference:	WELL @ 6733.0ft (Original Well Elev)
Well:	NPR 23B-10 596	North Reference:	True
Wellbore:	NPR 23B-10 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 23B-10 596 Wellbore #1	Database:	US_EDM

Project	SEC.10-T5S-R96W, Garfield County, CO		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		Using Well Reference Point
Map Zone:	Zone 12N (114 W to 108 W)		Using geodetic scale factor

Site		K10 596 Pad Sec.10-T5S-R96W			
Site Position:		Northing:	14,403,140.13 usft	Latitude:	39.627619
From:	Lat/Long	Easting:	2,441,439.81 usft	Longitude:	-108.155411
Position Uncertainty:	0.0 ft	Slot Radius:	13-3/16 "	Grid Convergence:	1.82 °

Well	NPR 23B-10 596				
Well Position	+N/-S	0.0 ft	Northing:	14,403,116.16 usft	Latitude: 39.627550
	+E/-W	0.0 ft	Easting:	2,441,477.22 usft	Longitude: -108.155281
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level: 6,709.0 ft

Wellbore		NPR 23B-10 596 Wellbore #1			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	5/4/2018	9.60	65.83	51,475

Design	NPR 23B-10 596 Wellbore #1				
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	59.66	

Survey Program		Date	5/14/2018		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
130.0	9,925.0	Survey #1 (NPR 23B-10 596 Wellbore #1)	MWD	MWD - Standard	

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	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
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL 1894'FSL, 2498'FWL, SEC.10									
130.0	0.00	0.00	130.0	0.0	0.0	0.0	0.00	0.00	0.00
296.0	6.50	55.20	295.6	5.4	7.7	9.4	3.92	3.92	0.00
388.0	9.20	67.20	386.8	11.2	18.8	21.9	3.42	2.93	13.04
481.0	11.80	71.80	478.2	17.0	34.7	38.5	2.94	2.80	4.95
573.0	13.60	67.40	568.0	24.1	53.6	58.4	2.22	1.96	-4.78
665.0	15.00	63.80	657.1	33.6	74.3	81.0	1.80	1.52	-3.91
758.0	16.10	60.50	746.7	45.2	96.3	105.9	1.52	1.18	-3.55
850.0	17.80	60.30	834.7	58.5	119.6	132.8	1.85	1.85	-0.22

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 23B-10 596
Project:	SEC.10-T5S-R96W	TVD Reference:	WELL @ 6733.0ft (Original Well Elev)
Site:	K10 596 Pad Sec.10-T5S-R96W	MD Reference:	WELL @ 6733.0ft (Original Well Elev)
Well:	NPR 23B-10 596	North Reference:	True
Wellbore:	NPR 23B-10 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 23B-10 596 Wellbore #1	Database:	US_EDM

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
943.0	18.30	61.10	923.1	72.6	144.7	161.6	0.60	0.54	0.86
1,037.0	20.00	61.40	1,011.9	87.4	171.8	192.4	1.81	1.81	0.32
1,132.0	19.60	58.10	1,101.3	103.6	199.6	224.6	1.25	-0.42	-3.47
1,227.0	17.90	54.50	1,191.3	120.5	225.0	255.0	2.16	-1.79	-3.79
1,321.0	20.80	57.40	1,280.0	137.9	250.8	286.1	3.25	3.09	3.09
1,416.0	23.10	60.00	1,368.1	156.3	281.2	321.6	2.63	2.42	2.74
1,510.0	23.40	57.90	1,454.4	175.4	312.9	358.7	0.94	0.32	-2.23
1,605.0	24.70	57.00	1,541.2	196.3	345.6	397.4	1.42	1.37	-0.95
1,699.0	24.90	60.30	1,626.5	216.8	379.2	436.8	1.49	0.21	3.51
1,794.0	24.40	65.40	1,712.9	234.8	414.5	476.3	2.30	-0.53	5.37
1,888.0	24.30	66.10	1,798.5	250.8	449.8	514.9	0.32	-0.11	0.74
1,983.0	23.10	66.10	1,885.5	266.2	484.7	552.8	1.26	-1.26	0.00
2,078.0	21.60	66.10	1,973.4	280.9	517.7	588.7	1.58	-1.58	0.00
2,172.0	20.70	65.00	2,061.0	294.9	548.6	622.4	1.05	-0.96	-1.17
2,267.0	21.50	65.00	2,149.7	309.3	579.6	656.5	0.84	0.84	0.00
2,361.0	22.80	64.20	2,236.7	324.6	611.6	691.8	1.42	1.38	-0.85
2,456.0	23.80	63.40	2,324.0	341.2	645.3	729.3	1.10	1.05	-0.84
2,550.0	23.60	63.30	2,410.0	358.1	679.1	767.0	0.22	-0.21	-0.11
2,645.0	23.60	64.10	2,497.1	375.0	713.2	804.9	0.34	0.00	0.84
2,739.0	23.10	63.30	2,583.4	391.5	746.6	842.1	0.63	-0.53	-0.85
2,834.0	22.50	63.00	2,671.0	408.1	779.4	878.8	0.64	-0.63	-0.32
2,928.0	23.30	61.60	2,757.6	425.1	811.8	915.4	1.03	0.85	-1.49
3,059.0	24.40	58.80	2,877.4	451.4	857.7	968.3	1.20	0.84	-2.14
3,154.0	24.30	57.40	2,963.9	472.1	891.0	1,007.5	0.62	-0.11	-1.47
3,248.0	24.40	56.70	3,049.6	493.2	923.5	1,046.2	0.32	0.11	-0.74
3,343.0	24.10	56.60	3,136.2	514.7	956.1	1,085.1	0.32	-0.32	-0.11
3,437.0	24.20	57.10	3,222.0	535.7	988.3	1,123.6	0.24	0.11	0.53
3,532.0	24.00	56.70	3,308.7	556.9	1,020.8	1,162.3	0.27	-0.21	-0.42
3,626.0	22.80	56.80	3,394.9	577.3	1,052.0	1,199.6	1.28	-1.28	0.11
3,721.0	21.70	57.90	3,482.9	596.8	1,082.3	1,235.5	1.24	-1.16	1.16
3,815.0	21.00	58.20	3,570.4	614.9	1,111.3	1,269.7	0.75	-0.74	0.32
3,910.0	20.60	57.30	3,659.2	632.9	1,139.9	1,303.4	0.54	-0.42	-0.95
4,004.0	19.70	57.40	3,747.5	650.3	1,167.1	1,335.8	0.96	-0.96	0.11
4,098.0	19.00	57.20	3,836.2	667.2	1,193.4	1,366.9	0.75	-0.74	-0.21
4,193.0	19.00	57.60	3,926.0	683.8	1,219.4	1,397.8	0.14	0.00	0.42
4,287.0	19.30	56.70	4,014.8	700.5	1,245.3	1,428.6	0.45	0.32	-0.96
4,382.0	18.10	57.30	4,104.8	717.1	1,270.9	1,459.1	1.28	-1.26	0.63
4,476.0	18.10	54.80	4,194.1	733.4	1,295.1	1,488.2	0.83	0.00	-2.66
4,570.0	17.00	53.30	4,283.7	750.1	1,318.0	1,516.4	1.27	-1.17	-1.60
4,664.0	16.70	57.20	4,373.7	765.6	1,340.4	1,543.5	1.24	-0.32	4.15
4,759.0	16.70	57.40	4,464.7	780.4	1,363.4	1,570.8	0.06	0.00	0.21
4,853.0	16.20	56.60	4,554.9	794.8	1,385.7	1,597.4	0.58	-0.53	-0.85
4,948.0	15.50	55.20	4,646.2	809.4	1,407.2	1,623.3	0.84	-0.74	-1.47

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 23B-10 596
Project:	SEC.10-T5S-R96W	TVD Reference:	WELL @ 6733.0ft (Original Well Elev)
Site:	K10 596 Pad Sec.10-T5S-R96W	MD Reference:	WELL @ 6733.0ft (Original Well Elev)
Well:	NPR 23B-10 596	North Reference:	True
Wellbore:	NPR 23B-10 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 23B-10 596 Wellbore #1	Database:	US_EDM

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,042.0	15.20	53.70	4,736.9	823.9	1,427.4	1,648.1	0.53	-0.32	-1.60
5,137.0	14.90	59.40	4,828.6	837.4	1,448.0	1,672.7	1.59	-0.32	6.00
5,231.0	14.50	61.70	4,919.6	849.2	1,468.7	1,696.5	0.75	-0.43	2.45
5,326.0	14.60	59.70	5,011.5	860.9	1,489.5	1,720.4	0.54	0.11	-2.11
5,420.0	14.60	57.90	5,102.5	873.1	1,509.8	1,744.1	0.48	0.00	-1.91
5,515.0	12.80	60.90	5,194.8	884.6	1,529.2	1,766.6	2.04	-1.89	3.16
5,609.0	12.60	62.90	5,286.5	894.3	1,547.4	1,787.2	0.51	-0.21	2.13
5,704.0	11.10	64.70	5,379.4	903.0	1,564.9	1,806.7	1.63	-1.58	1.89
5,799.0	8.30	68.40	5,473.1	909.4	1,579.5	1,822.6	3.02	-2.95	3.89
5,893.0	8.10	66.10	5,566.1	914.6	1,591.9	1,835.8	0.41	-0.21	-2.45
5,987.0	5.90	67.90	5,659.4	919.1	1,602.4	1,847.2	2.35	-2.34	1.91
6,082.0	3.40	57.00	5,754.1	922.5	1,609.3	1,854.9	2.78	-2.63	-11.47
6,177.0	1.40	55.90	5,849.0	924.6	1,612.6	1,858.8	2.11	-2.11	-1.16
6,272.0	0.10	255.20	5,944.0	925.3	1,613.5	1,859.9	1.57	-1.37	-169.16
6,366.0	0.60	290.40	6,038.0	925.4	1,613.0	1,859.5	0.55	0.53	37.45
6,461.0	0.40	305.30	6,133.0	925.8	1,612.2	1,859.1	0.25	-0.21	15.68
6,555.0	0.40	258.10	6,227.0	925.9	1,611.6	1,858.6	0.34	0.00	-50.21
6,650.0	0.70	230.10	6,322.0	925.5	1,610.9	1,857.7	0.42	0.32	-29.47
6,745.0	0.40	314.10	6,417.0	925.3	1,610.2	1,857.1	0.81	-0.32	88.42
6,839.0	0.40	288.20	6,511.0	925.7	1,609.6	1,856.8	0.19	0.00	-27.55
6,934.0	0.30	225.40	6,606.0	925.6	1,609.1	1,856.3	0.39	-0.11	-66.11
7,028.0	0.10	243.00	6,700.0	925.4	1,608.9	1,856.0	0.22	-0.21	18.72
7,123.0	0.60	279.60	6,795.0	925.4	1,608.3	1,855.5	0.55	0.53	38.53
7,217.0	1.50	273.40	6,889.0	925.6	1,606.6	1,854.1	0.96	0.96	-6.60
7,312.0	1.10	285.60	6,983.9	925.9	1,604.5	1,852.5	0.51	-0.42	12.84
7,407.0	1.00	262.10	7,078.9	926.0	1,602.8	1,851.1	0.46	-0.11	-24.74
7,501.0	1.00	264.60	7,172.9	925.8	1,601.2	1,849.6	0.05	0.00	2.66
7,595.0	1.80	281.20	7,266.9	926.0	1,598.9	1,847.7	0.95	0.85	17.66
7,690.0	1.70	261.40	7,361.8	926.1	1,596.1	1,845.3	0.64	-0.11	-20.84
7,784.0	1.80	275.10	7,455.8	926.1	1,593.2	1,842.8	0.46	0.11	14.57
7,879.0	2.10	253.10	7,550.7	925.7	1,590.1	1,839.9	0.84	0.32	-23.16
7,974.0	1.80	254.00	7,645.7	924.8	1,587.0	1,836.7	0.32	-0.32	0.95
8,068.0	2.50	265.20	7,739.6	924.2	1,583.5	1,833.5	0.87	0.74	11.91
8,163.0	2.50	272.20	7,834.5	924.1	1,579.4	1,829.8	0.32	0.00	7.37
8,257.0	2.00	262.00	7,928.5	923.9	1,575.7	1,826.6	0.68	-0.53	-10.85
8,352.0	2.20	266.10	8,023.4	923.6	1,572.2	1,823.4	0.26	0.21	4.32
Last Survey - 8352' MD									
8,447.0	1.90	272.90	8,118.3	923.5	1,568.8	1,820.5	0.41	-0.32	7.16
8,542.0	2.00	257.10	8,213.3	923.2	1,565.6	1,817.6	0.57	0.11	-16.63
8,636.0	1.60	246.20	8,307.2	922.4	1,562.8	1,814.7	0.56	-0.43	-11.60
8,731.0	1.80	255.40	8,402.2	921.4	1,560.2	1,812.0	0.36	0.21	9.68
8,920.0	1.50	271.90	8,591.1	920.8	1,554.8	1,807.0	0.30	-0.16	8.73
9,109.0	1.90	318.60	8,780.0	923.2	1,550.3	1,804.3	0.74	0.21	24.71

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 23B-10 596
Project:	SEC.10-T5S-R96W	TVD Reference:	WELL @ 6733.0ft (Original Well Elev)
Site:	K10 596 Pad Sec.10-T5S-R96W	MD Reference:	WELL @ 6733.0ft (Original Well Elev)
Well:	NPR 23B-10 596	North Reference:	True
Wellbore:	NPR 23B-10 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 23B-10 596 Wellbore #1	Database:	US_EDM

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,203.0	1.60	332.50	8,874.0	925.5	1,548.7	1,804.1	0.55	-0.32	14.79
9,393.0	1.80	264.50	9,063.9	927.6	1,544.5	1,801.5	1.00	0.11	-35.79
9,582.0	3.40	262.20	9,252.7	926.6	1,536.0	1,793.6	0.85	0.85	-1.22
9,771.0	6.10	235.00	9,441.1	920.0	1,522.2	1,778.4	1.82	1.43	-14.39
9,855.0	6.10	231.70	9,524.6	914.7	1,515.0	1,769.6	0.42	0.00	-3.93
9,924.9	6.10	231.70	9,594.1	910.1	1,509.2	1,762.2	0.00	0.00	0.00
BHL 2533'FNL, 1306'FEL, SEC.10									
9,925.0	6.10	231.70	9,594.2	910.1	1,509.2	1,762.2	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SHL 1894'FSL, 2498'FW	0.00	0.00	1.0	0.0	0.0	14,403,116.16	2,441,477.22	39.627550	-108.155281
- survey hits target center									
- Point									
BHL 2533'FNL, 1306'FE	0.00	0.00	9,586.0	853.1	1,457.7	14,404,015.34	2,442,907.62	39.629892	-108.150106
- survey misses target center by 77.2ft at 9924.9ft MD (9594.1 TVD, 910.1 N, 1509.2 E)									
- Ellipse (radii L200.0 W100.0 on 250.00 azi)									

Survey Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
8,352.0	8,023.4	923.6	1,572.2	Last Survey - 8352' MD

Checked By: _____	Approved By: _____	Date: _____
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