

Results of Directional Survey

API number:	30-025-40142		
OGRID:		Operator:	MEWBOURNE OIL CO
		Property:	OCELOT 34 FEDERAL COM # 1H

surface	ULSTR:	B	34	T	19S	R	32E
				475	FNL	1932	FEL

BH Loc	ULSTR:	O	34	T	19S	R	32E
13900	MD	9633.2	TVD	370	FSL	1981	FEL
				4910	FNL		

Top Perf/OH	ULSTR:	B	34	T	19S	R	32E
10111	MD	9672.2	TVD	1123	FNL	1946	FEL

Bot Perf/OH	ULSTR:	O	34	T	19S	R	32E
13763	MD	9632.3	TVD	507	FNL	1981	FEL
				4773	FNL		

	MD	N/S	E/W	VD
	10099	-635.90	-14.12	9672.59
TOP PERFS/OH	10111	-647.89	-14.31	9672.21
	10130	-666.88	-14.60	9671.62
	13755	-4290.05	-49.15	9632.38
BOT PERFS/OH	13763	-4298.05	-49.14	9632.32
	13786	-4321.04	-49.13	9632.16

NEXT TO LAST	13818	-4353.04	-49.13	9632.28
LAST READING	13850	-4385.04	-49.16	9632.64
TD	13900	-4435.04	-49.21	9633.20

Surface Location	475	FN	1932	FE
Projected BHL	4910	FN	1981	FE
Location of				
Top Perfs/OH	1123	FN	1946	FE
Bottom Perfs/OH	4773	FN	1981	FE

SUMMARY of Subsurface Locations

Surface Location	B-34-19S-32E	475	FN	1932	FE	Vert. Depth
Top Perfs/OH	B-34-19S-32E	1123	FN	1946	FE	9672.21
Bottom Perfs/OH	O-34-19S-32E	4773	FN	1981	FE	9632.32
Projected TD	O-34-19S-32E	4910	FN	1981	FE	9633.20

FEB 29 2012

OPERATOR MEWBOURNE OIL COMPANY
WELL/LEASE OCELOT 34 FED COM #1H
COUNTY LEA

HOBBS OCD

FEB 27 2012

STATE OF NEW MEXICO
DEVIATION REPORT

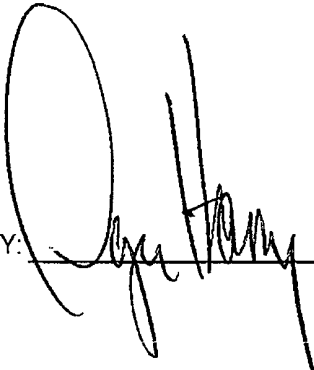
RECEIVED

282	0.23
797	0.24
1,130	0.75
1,333	0.60
1,555	0.80
1,777	0.46
1,999	1.43
2,285	3.47
2,411	3.57
2,538	3.42
2,697	2.92
2,823	2.13
2,969	1.79
3,158	1.04
3,574	1.20
4,097	1.00
4,267	0.50
4,680	0.75
5,061	0.75
5,408	0.75
5,795	0.75
6,268	0.06
6,648	0.48
7,029	0.38
7,315	0.36
7,690	0.40
8,077	0.30
8,458	0.30
8,807	0.40

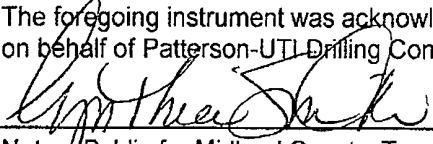
SUR: B-34-19s-32e, 475/N & 1932/E
BHL: O-34-19s-32e, 4910/N & 1981/E
API # 30-025-40142

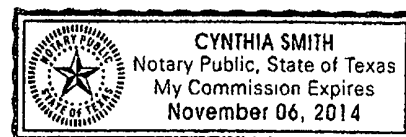
STATE OF TEXAS

COUNTY OF MIDLAND

BY: 

The foregoing instrument was acknowledged before me on February 14, 2012 by Doyce Haney
on behalf of Patterson-UTL Drilling Company LLC.


Notary Public for Midland County, Texas
My Commission Expires: November 06, 2014





SUR: B-34-19s-32e, 475/N & 1932/E
 BHL: O-34-19s-32e, 4910/N & 1981/E
 API # 30-025-40142

Company: Mewbourne Oil Company

Lease/Well: Ocelot 34 Fed Com/1H

Location: S 34, T 19S, R32E

Rig Name: Patterson #41

State/County: Texas/Lea

Latitude: 32.62

GRID North is 0.31 Degrees East of True North

VS-Azi: 0.00 Degrees



Depth Reference : RKB=24 Feet Elevation=3568 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: ocelot 34 fed com #1h_ed.ut

Minimum Curvature Method

Report Date/Time: 1/11/2012 / 15:13

Vaughn Energy Services

Midland, TX

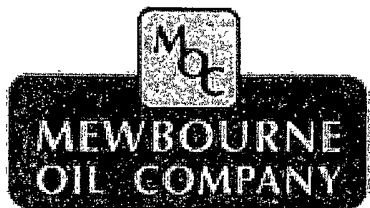
432-563-5444

Surveyor: Zach Garcia

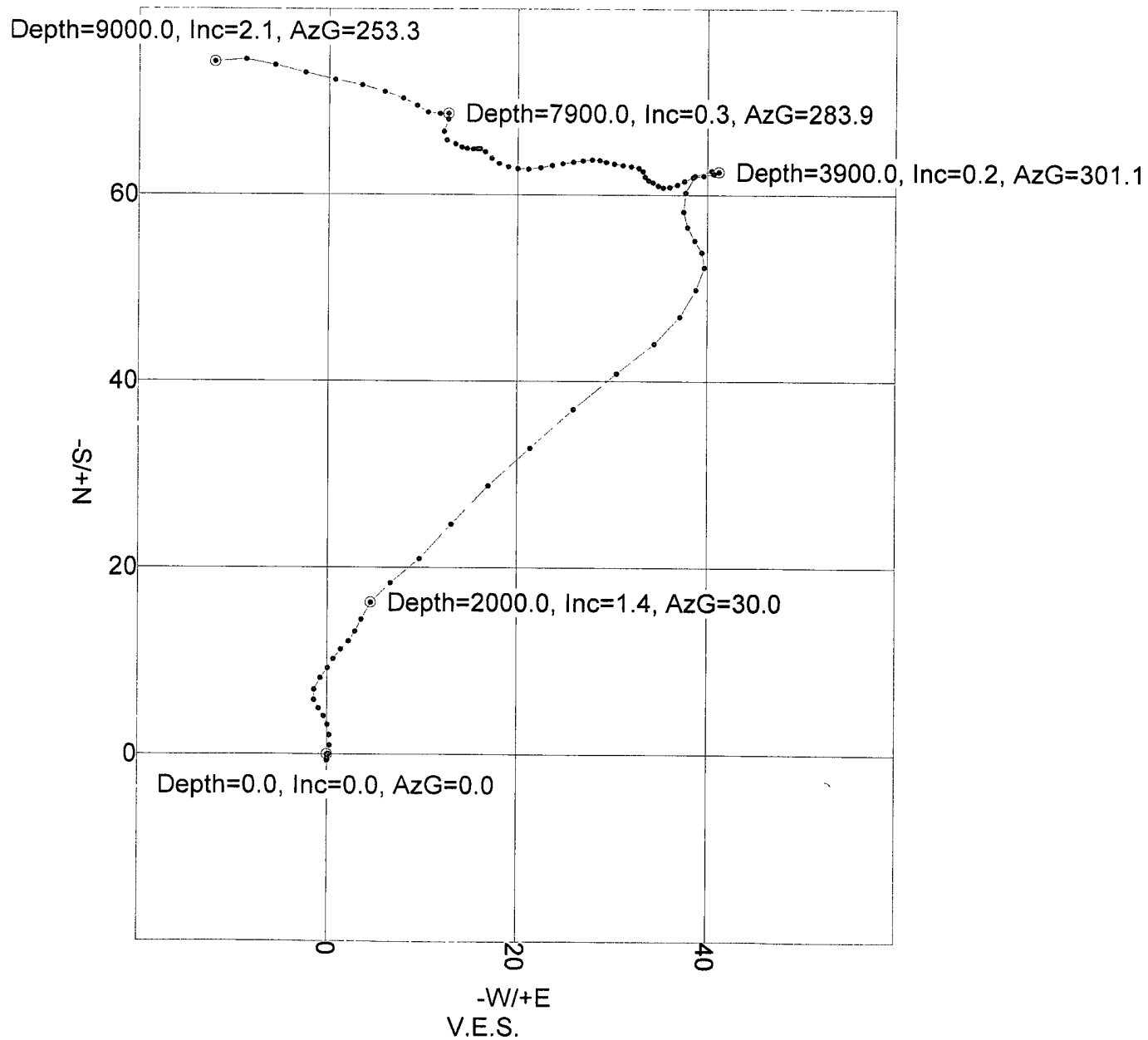
Ocelot 34 Fed Com 1H

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.15	171.67	100.00	-0.13	0.02	-0.13	0.13	171.67	0.15
200.00	0.19	192.75	200.00	-0.42	0.00	-0.42	0.42	179.68	0.07
300.00	0.11	189.02	300.00	-0.68	-0.05	-0.68	0.68	184.14	0.08
400.00	0.25	26.87	400.00	-0.58	0.04	-0.58	0.58	176.49	0.36
500.00	0.48	7.75	500.00	0.03	0.19	0.03	0.19	80.29	0.25
600.00	0.57	0.33	599.99	0.94	0.25	0.94	0.98	14.87	0.11
700.00	0.69	358.72	699.99	2.04	0.24	2.04	2.06	6.70	0.12
800.00	0.64	338.01	799.98	3.16	0.02	3.16	3.16	0.34	0.24
900.00	0.53	332.24	899.97	4.09	-0.41	4.09	4.11	354.32	0.12
1000.00	0.56	324.27	999.97	4.90	-0.91	4.90	4.98	349.46	0.08
1100.00	0.62	337.49	1099.96	5.80	-1.41	5.80	5.97	346.37	0.15
1200.00	0.73	20.17	1199.96	6.90	-1.39	6.90	7.04	348.58	0.50
1300.00	0.91	33.51	1299.95	8.16	-0.74	8.16	8.20	354.84	0.26
1400.00	0.59	37.81	1399.94	9.23	0.02	9.23	9.23	0.10	0.32
1500.00	0.75	26.74	1499.93	10.22	0.63	10.22	10.24	3.51	0.20
1600.00	0.73	47.62	1599.92	11.23	1.39	11.23	11.32	7.05	0.27
1700.00	0.66	37.15	1699.92	12.12	2.21	12.12	12.32	10.32	0.14
1800.00	0.75	30.62	1799.91	13.15	2.89	13.15	13.46	12.40	0.12

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1900.00	0.92	24.79	1899.90	14.44	3.56	14.44	14.87	13.85	0.20
2000.00	1.44	30.02	1999.88	16.26	4.53	16.26	16.88	15.56	0.53
2100.00	2.03	55.85	2099.83	18.35	6.63	18.35	19.51	19.86	0.97
2200.00	2.58	45.74	2199.75	20.92	9.71	20.92	23.07	24.90	0.68
2300.00	3.16	39.19	2299.63	24.63	13.07	24.63	27.88	27.95	0.66
2400.00	3.34	47.07	2399.47	28.75	16.94	28.75	33.37	30.51	0.48
2500.00	3.57	48.53	2499.28	32.80	21.41	32.80	39.17	33.14	0.25
2600.00	3.49	46.11	2599.09	36.97	25.93	36.97	45.16	35.05	0.17
2700.00	3.31	53.16	2698.92	40.80	30.43	40.80	50.90	36.72	0.45
2800.00	2.52	49.05	2798.79	43.97	34.40	43.97	55.83	38.04	0.81
2900.00	2.06	34.93	2898.71	46.88	37.09	46.88	59.78	38.35	0.73
3000.00	1.80	25.22	2998.65	49.78	38.79	49.78	63.10	37.93	0.41
3100.00	1.18	11.49	3098.62	52.21	39.66	52.21	65.56	37.22	0.71
3200.00	0.89	323.83	3198.60	53.84	39.41	53.84	66.72	36.20	0.88
3300.00	0.81	335.33	3298.59	55.11	38.65	55.11	67.31	35.05	0.19
3400.00	1.04	327.58	3398.58	56.51	37.87	56.51	68.03	33.83	0.26
3500.00	1.06	4.59	3498.56	58.20	37.46	58.20	69.21	32.77	0.67
3600.00	1.29	6.49	3598.54	60.23	37.66	60.23	71.04	32.02	0.23
3700.00	1.26	50.65	3698.52	62.05	38.64	62.05	73.10	31.91	0.96
3800.00	1.06	100.35	3798.50	62.58	40.40	62.58	74.49	32.84	0.99
3900.00	0.17	301.15	3898.50	62.49	41.18	62.49	74.84	33.38	1.22
4000.00	0.58	235.10	3998.50	62.28	40.64	62.28	74.36	33.13	0.54
4100.00	0.73	276.54	4098.49	62.06	39.58	62.06	73.61	32.53	0.49
4200.00	0.62	245.50	4198.48	61.91	38.46	61.91	72.88	31.85	0.38
4300.00	0.53	244.27	4298.48	61.49	37.55	61.49	72.05	31.41	0.09
4400.00	0.46	240.22	4398.47	61.09	36.79	61.09	71.31	31.06	0.08
4500.00	0.51	261.50	4498.47	60.82	36.00	60.82	70.68	30.62	0.18
4600.00	0.31	273.63	4598.47	60.77	35.30	60.77	70.28	30.15	0.21
4700.00	0.38	308.28	4698.47	61.00	34.77	61.00	70.21	29.68	0.22
4800.00	0.38	293.63	4798.46	61.34	34.20	61.34	70.23	29.14	0.10
4900.00	0.23	296.10	4898.46	61.56	33.72	61.56	70.19	28.71	0.15
5000.00	0.40	329.50	4998.46	61.95	33.36	61.95	70.36	28.30	0.24
5100.00	0.33	347.37	5098.46	62.53	33.12	62.53	70.76	27.91	0.13
5200.00	0.43	280.48	5198.46	62.88	32.69	62.88	70.87	27.47	0.42
5300.00	0.52	283.49	5298.45	63.05	31.89	63.05	70.66	26.83	0.09
5400.00	0.50	271.68	5398.45	63.17	31.01	63.17	70.37	26.15	0.11
5500.00	0.55	287.09	5498.45	63.32	30.12	63.32	70.12	25.44	0.15
5600.00	0.45	279.27	5598.44	63.53	29.28	63.53	69.95	24.75	0.12
5700.00	0.37	291.93	5698.44	63.71	28.60	63.71	69.83	24.18	0.12



Vaughn Energy Services
Midland, TX
432-563-5444
Surveyor: Zach Garcia
Ocelot 34 Fed Com 1H



measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5800.00	0.58	263.63	5798.44	63.77	27.80	63.77	69.57	23.55	0.31
5900.00	0.51	264.18	5898.43	63.67	26.86	63.67	69.10	22.87	0.07
6000.00	0.66	260.72	5998.43	63.53	25.85	63.53	68.59	22.14	0.15
6100.00	0.63	261.39	6098.42	63.36	24.74	63.36	68.02	21.33	0.02
6200.00	0.66	257.72	6198.41	63.15	23.63	63.15	67.43	20.51	0.05
6300.00	0.75	260.00	6298.41	62.92	22.42	62.92	66.79	19.61	0.09
6400.00	0.71	266.81	6398.40	62.77	21.16	62.77	66.24	18.63	0.10
6500.00	0.62	277.09	6498.39	62.80	20.01	62.80	65.91	17.67	0.15
6600.00	0.59	285.91	6598.39	63.01	18.98	63.01	65.80	16.76	0.10
6700.00	0.61	293.01	6698.38	63.36	17.99	63.36	65.86	15.86	0.08
6800.00	0.53	319.17	6798.38	63.91	17.20	63.91	66.19	15.06	0.27
6900.00	0.59	312.39	6898.37	64.62	16.52	64.62	66.69	14.34	0.09
7000.00	0.17	265.33	6998.37	64.95	15.99	64.95	66.89	13.83	0.49
7100.00	0.15	275.10	7098.37	64.95	15.71	64.95	66.83	13.60	0.03
7200.00	0.39	265.03	7198.37	64.93	15.24	64.93	66.70	13.21	0.24
7300.00	0.36	281.15	7298.37	64.97	14.60	64.97	66.59	12.66	0.11
7400.00	0.31	291.62	7398.36	65.13	14.04	65.13	66.62	12.17	0.08
7500.00	0.55	299.50	7498.36	65.46	13.37	65.46	66.81	11.54	0.25
7600.00	0.58	289.84	7598.36	65.87	12.47	65.87	67.04	10.72	0.10
7700.00	0.89	11.59	7698.35	66.81	12.15	66.81	67.90	10.31	0.99
7800.00	0.72	29.06	7798.34	68.12	12.61	68.12	69.28	10.49	0.30
7900.00	0.33	283.91	7898.34	68.74	12.64	68.74	69.89	10.42	0.87
8000.00	0.72	262.26	7998.33	68.73	11.73	68.73	69.72	9.69	0.43
8100.00	0.79	289.96	8098.32	68.88	10.45	68.88	69.67	8.63	0.37
8200.00	0.83	313.77	8198.31	69.61	9.28	69.61	70.23	7.59	0.34
8300.00	1.13	288.24	8298.30	70.42	7.82	70.42	70.85	6.34	0.52
8400.00	1.27	290.08	8398.28	71.11	5.85	71.11	71.35	4.70	0.15
8500.00	1.59	283.38	8498.25	71.81	3.46	71.81	71.89	2.76	0.36
8600.00	1.75	279.90	8598.21	72.39	0.60	72.39	72.40	0.48	0.19
8700.00	1.94	285.89	8698.15	73.12	-2.52	73.12	73.16	358.02	0.27
8800.00	1.82	283.08	8798.10	73.94	-5.70	73.94	74.16	355.59	0.15
8900.00	1.75	280.03	8898.05	74.57	-8.75	74.57	75.08	353.31	0.12
9000.00	2.12	253.28	8998.00	74.30	-12.02	74.30	75.27	350.81	0.97



Job Number: SES 11-180
Company: Mewbourne Oil Company
Lease/Well: Ocelot 34 Federal Com #1H
Location: New Mexico
Rig Name: Patterson #41
State/County: New Mexico/ Lea
Country: United States of America
API Number: 30-025-40142

Elevation (To MSL): 0.00 ft
RKB: 0.00 ft
Projection System: US State Plane 1927 (Exact solution)
Projection Group: New Mexico East 3001
Projection Datum: CLARKE 1866
Magnetic Declination: 7.65
Grid Convergence: 0.31383 E
Date: Wednesday, January 25, 2012

Calculated by HawkEye Software
Minimum Curvature Method
Vertical Section Plane 180.62°
Northing: 590736.46 Easting: 679226.09
Latitude: 32°37'21.6799" N Longitude: -103°45'4.3583" W
Well Location: 476.64 FNL, 1908.62 FEL, Section 34, T19S, R32E, Meridian 23, Lea County, NM
Direction Reference: Grid North

Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	Northing (Ft)	Easting (Ft)	Latitude DMS	Longitude DMS	Build Rate °/100Ft	VS (Ft)	Closure (Ft)	Closure Dir Deg.	DLS °/100Ft
TI: 9000 MD, 2.12°														
9000.00	2.12	253.28	8998.00	74.30	-12.02	590810.76	679214.07	32°37'22.4157" N	-103°45'4.4941" W	0.00	-74.17	75.27	350.81	0.00
9019.00	2.40	246.40	9016.99	74.04	-12.72	590810.50	679213.37	32°37'22.4132" N	-103°45'4.5023" W	1.47	-73.90	75.12	350.25	2.05
9050.00	3.70	207.60	9047.94	72.89	-13.78	590809.35	679212.31	32°37'22.4019" N	-103°45'4.5148" W	4.19	-72.74	74.18	349.30	7.64
9082.00	6.40	175.50	9079.82	70.20	-14.12	590806.66	679211.97	32°37'22.3753" N	-103°45'4.5189" W	8.44	-70.04	71.60	348.63	11.91
9114.00	10.80	172.20	9111.46	65.45	-13.57	590801.91	679212.52	32°37'22.3282" N	-103°45'4.5128" W	13.75	-65.30	66.84	348.29	13.83
9145.00	14.40	173.20	9141.70	58.74	-12.72	590795.20	679213.37	32°37'22.2618" N	-103°45'4.5033" W	11.61	-58.60	60.10	347.78	11.63
9177.00	17.30	174.70	9172.48	50.05	-11.81	590786.51	679214.28	32°37'22.1758" N	-103°45'4.4932" W	9.06	-49.92	51.42	346.72	9.15
9209.00	19.60	175.20	9202.84	39.96	-10.92	590776.42	679215.17	32°37'22.0759" N	-103°45'4.4835" W	7.19	-39.84	41.43	344.72	7.20
9240.00	21.90	175.60	9231.82	29.02	-10.04	590765.48	679216.05	32°37'21.9675" N	-103°45'4.4739" W	7.42	-28.91	30.70	340.91	7.43
9271.00	24.00	175.50	9260.37	16.97	-9.10	590753.43	679216.99	32°37'21.8483" N	-103°45'4.4637" W	6.77	-16.87	19.25	331.78	6.78
9303.00	26.20	175.00	9289.35	3.44	-7.98	590739.90	679218.11	32°37'21.7143" N	-103°45'4.4514" W	6.88	-3.35	8.69	293.32	6.91
9335.00	28.30	174.60	9317.79	-11.15	-6.65	590725.31	679219.44	32°37'21.5699" N	-103°45'4.4368" W	6.56	11.22	12.98	210.80	6.59
9366.00	29.20	175.80	9344.97	-26.01	-5.40	590710.45	679220.69	32°37'21.4228" N	-103°45'4.4232" W	2.90	26.07	26.56	191.73	3.45
9398.00	30.00	178.60	9372.80	-41.79	-4.63	590694.67	679221.46	32°37'21.2666" N	-103°45'4.4152" W	2.50	41.84	42.05	186.33	4.99
9430.00	32.90	180.30	9400.09	-58.49	-4.48	590677.97	679221.61	32°37'21.1014" N	-103°45'4.4145" W	9.06	58.53	58.66	184.39	9.48
9462.00	37.20	181.90	9426.28	-76.85	-4.85	590659.61	679221.24	32°37'20.9197" N	-103°45'4.4200" W	13.44	76.90	77.01	183.61	13.74
9493.00	41.20	181.80	9450.30	-96.43	-5.48	590640.03	679220.61	32°37'20.7260" N	-103°45'4.4286" W	12.90	96.49	96.59	183.25	12.90
9525.00	44.30	182.20	9473.80	-118.14	-6.24	590618.32	679219.85	32°37'20.5112" N	-103°45'4.4389" W	9.69	118.20	118.30	183.03	9.72
9557.00	46.90	182.20	9496.18	-140.98	-7.12	590595.48	679218.97	32°37'20.2852" N	-103°45'4.4506" W	8.13	141.05	141.16	182.89	8.12
9589.00	49.50	182.20	9517.51	-164.82	-8.04	590571.64	679218.05	32°37'20.0494" N	-103°45'4.4629" W	8.13	164.89	165.01	182.79	8.12
9621.00	52.00	182.50	9537.76	-189.57	-9.05	590546.89	679217.04	32°37'19.8045" N	-103°45'4.4763" W	7.81	189.66	189.79	182.73	7.85
9652.00	54.50	182.80	9556.30	-214.39	-10.20	590522.07	679215.89	32°37'19.5590" N	-103°45'4.4914" W	8.06	214.48	214.63	182.72	8.10
9684.00	57.30	182.50	9574.24	-240.85	-11.43	590495.61	679214.66	32°37'19.2972" N	-103°45'4.5074" W	8.75	240.96	241.12	182.72	8.78
9716.00	59.60	181.10	9590.99	-268.11	-12.28	590468.35	679213.81	32°37'19.0276" N	-103°45'4.5191" W	7.19	268.22	268.39	182.62	8.10
9747.00	61.90	180.20	9606.13	-295.15	-12.58	590441.31	679213.51	32°37'18.7600" N	-103°45'4.5244" W	7.42	295.27	295.42	182.44	7.84
9779.00	64.70	179.60	9620.51	-323.73	-12.53	590412.73	679213.56	32°37'18.4771" N	-103°45'4.5256" W	8.75	323.85	323.98	182.22	8.91

Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	Northing (Ft)	Easting (Ft)	Latitude DMS	Longitude DMS	Build Rate %/100Ft	VS (Ft)	Closure (Ft)	Closure Dir Deg	DLS %/100Ft
9811.00	67.90	179.70	9633.37	-353.03	-12.35	590383.43	679213.74	32°37'18.1872" N	-103°45'4.5254" W	10.00	353.14	353.25	182.00	10.00
9843.00	72.30	179.30	9644.26	-383.11	-12.09	590353.35	679214.00	32°37'17.8896" N	-103°45'4.5242" W	13.75	383.22	383.30	181.81	13.80
9874.00	74.80	179.30	9653.04	-412.84	-11.73	590323.62	679214.36	32°37'17.5954" N	-103°45'4.5219" W	8.06	412.94	413.00	181.63	8.06
9906.00	77.80	179.30	9660.61	-443.92	-11.35	590292.54	679214.74	32°37'17.2878" N	-103°45'4.5194" W	9.38	444.02	444.07	181.46	9.37
9937.00	80.50	179.80	9666.45	-474.36	-11.11	590262.10	679214.98	32°37'16.9865" N	-103°45'4.5186" W	8.71	474.46	474.49	181.34	8.85
9969.00	84.00	180.30	9670.76	-506.07	-11.14	590230.39	679214.95	32°37'16.6728" N	-103°45'4.5209" W	10.94	506.16	506.19	181.26	11.05
10001.00	87.30	181.30	9673.19	-537.97	-11.58	590198.49	679214.51	32°37'16.3572" N	-103°45'4.5282" W	10.31	538.06	538.09	181.23	10.77
10018 MD 89.10°														
10018.00	89.10	181.50	9673.73	-554.95	-12.00	590181.51	679214.09	32°37'16.1891" N	-103°45'4.5341" W	10.59	555.05	555.08	181.24	10.65
10099.00	92.50	181.50	9672.59	-635.90	-14.12	590100.56	679211.97	32°37'15.3882" N	-103°45'4.5641" W	4.20	636.02	636.06	181.27	4.20
10130.00	91.10	180.30	9671.62	-666.88	-14.60	590069.58	679211.49	32°37'15.0817" N	-103°45'4.5718" W	-4.52	667.00	667.04	181.25	5.95
10162.00	90.70	180.10	9671.12	-698.88	-14.72	590037.58	679211.37	32°37'14.7651" N	-103°45'4.5751" W	-1.25	699.00	699.03	181.21	1.40
10194.00	89.50	180.00	9671.06	-730.88	-14.74	590005.58	679211.35	32°37'14.4485" N	-103°45'4.5775" W	-3.75	731.00	731.03	181.16	3.76
10226.00	89.40	179.30	9671.37	-762.88	-14.55	589973.58	679211.54	32°37'14.1318" N	-103°45'4.5773" W	-0.31	762.99	763.02	181.09	2.21
10257.00	89.20	179.00	9671.75	-793.87	-14.09	589942.59	679212.00	32°37'13.8251" N	-103°45'4.5739" W	-0.65	793.98	794.00	181.02	1.16
10289.00	89.10	178.70	9672.22	-825.86	-13.45	589910.60	679212.64	32°37'13.5085" N	-103°45'4.5684" W	-0.31	825.96	825.97	180.93	0.99
10321.00	89.10	178.80	9672.73	-857.85	-12.75	589878.61	679213.34	32°37'13.1919" N	-103°45'4.5623" W	0.00	857.94	857.94	180.85	0.31
10353.00	88.80	178.70	9673.31	-889.84	-12.05	589846.62	679214.04	32°37'12.8754" N	-103°45'4.5562" W	-0.94	889.91	889.92	180.78	0.99
10385.00	88.60	178.60	9674.04	-921.82	-11.30	589814.64	679214.79	32°37'12.5589" N	-103°45'4.5494" W	-0.63	921.89	921.89	180.70	0.70
10417.00	88.50	178.50	9674.85	-953.80	-10.49	589782.66	679215.60	32°37'12.2424" N	-103°45'4.5420" W	-0.31	953.86	953.86	180.63	0.44
10449.00	88.30	178.30	9675.74	-985.77	-9.59	589750.69	679216.50	32°37'11.9259" N	-103°45'4.5336" W	-0.63	985.82	985.82	180.56	0.88
10480.00	88.00	178.30	9676.74	-1016.74	-8.67	589719.72	679217.42	32°37'11.6194" N	-103°45'4.5249" W	-0.97	1016.78	1016.78	180.49	0.97
10512.00	88.00	179.60	9677.86	-1048.72	-8.09	589687.74	679218.00	32°37'11.3030" N	-103°45'4.5201" W	0.00	1048.74	1048.75	180.44	4.06
10543.00	87.90	179.70	9678.97	-1079.70	-7.90	589656.76	679218.19	32°37'10.9964" N	-103°45'4.5198" W	-0.32	1079.72	1079.73	180.42	0.46
10575.00	88.40	180.00	9680.00	-1111.68	-7.82	589624.78	679218.27	32°37'10.6800" N	-103°45'4.5209" W	1.56	1111.70	1111.71	180.40	1.82
10607.00	88.70	180.00	9680.81	-1143.67	-7.82	589592.79	679218.27	32°37'10.3634" N	-103°45'4.5229" W	0.94	1143.69	1143.70	180.39	0.94
10638.00	88.40	180.70	9681.59	-1174.66	-8.00	589561.80	679218.09	32°37'10.0568" N	-103°45'4.5271" W	-0.97	1174.68	1174.69	180.39	2.46
10670.00	88.20	180.70	9682.54	-1206.64	-8.40	589529.82	679217.69	32°37'9.7403" N	-103°45'4.5338" W	-0.63	1206.66	1206.67	180.40	0.62
10702.00	89.40	180.80	9683.21	-1238.63	-8.81	589497.83	679217.28	32°37'9.4238" N	-103°45'4.5407" W	3.75	1238.66	1238.66	180.41	3.76
10734.00	91.70	181.50	9682.91	-1270.62	-9.46	589465.84	679216.63	32°37'9.1073" N	-103°45'4.5503" W	7.19	1270.65	1270.66	180.43	7.51
10765.00	92.10	181.70	9681.88	-1301.59	-10.32	589434.87	679215.77	32°37'8.8009" N	-103°45'4.5624" W	1.29	1301.63	1301.63	180.45	1.44
10797.00	90.70	181.40	9681.10	-1333.57	-11.19	589402.89	679214.90	32°37'8.4845" N	-103°45'4.5745" W	-4.37	1333.61	1333.62	180.48	4.47
10829.00	90.50	181.60	9680.76	-1365.56	-12.02	589370.90	679214.07	32°37'8.1680" N	-103°45'4.5864" W	-0.63	1365.61	1365.61	180.50	0.88
10861.00	90.30	181.40	9680.54	-1397.55	-12.86	589338.91	679213.23	32°37'7.8515" N	-103°45'4.5982" W	-0.63	1397.60	1397.61	180.53	0.88
10893.00	90.20	181.10	9680.40	-1429.54	-13.56	589306.92	679212.53	32°37'7.5350" N	-103°45'4.6084" W	-0.31	1429.60	1429.60	180.54	0.99
10925.00	90.40	181.00	9680.23	-1461.53	-14.15	589274.93	679211.94	32°37'7.2184" N	-103°45'4.6173" W	0.63	1461.60	1461.60	180.55	0.70
10957.00	90.10	181.10	9680.09	-1493.53	-14.73	589242.93	679211.36	32°37'6.9019" N	-103°45'4.6262" W	-0.94	1493.60	1493.60	180.57	0.99
10988.00	89.80	181.90	9680.12	-1524.52	-15.54	589211.94	679210.55	32°37'6.5953" N	-103°45'4.6377" W	-0.97	1524.60	1524.60	180.58	2.76
11020.00	91.50	182.30	9679.76	-1556.49	-16.72	589179.97	679209.37	32°37'6.2789" N	-103°45'4.6535" W	5.31	1556.58	1556.58	180.62	5.46
11052.00	93.10	182.90	9678.47	-1588.43	-18.17	589148.03	679207.92	32°37'5.9629" N	-103°45'4.6725" W	5.00	1588.54	1588.54	180.66	5.34
11084.00	93.30	182.70	9676.69	-1620.34	-19.73	589116.12	679206.36	32°37'5.6473" N	-103°45'4.6927" W	0.63	1620.46	1620.46	180.70	0.88

Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	Northing (Ft)	Easting (Ft)	Latitude DMS	Longitude DMS	Build Rate "/100Ft	VS (Ft)	Closure (Ft)	Closure Dir Deg	DLS "/100Ft
11116.00	93.20	182.60	9674.87	-1652.26	-21.20	589084.20	679204.89	32°37'5.3315" N	-103°45'4.7121" W	-0.31	1652.39	1652.39	180.74	0.44
11148.00	93.10	182.00	9673.11	-1684.18	-22.49	589052.28	679203.60	32°37'5.0157" N	-103°45'4.7291" W	-0.31	1684.33	1684.33	180.76	1.90
11180.00	93.10	181.80	9671.38	-1716.12	-23.55	589020.34	679202.54	32°37'4.6997" N	-103°45'4.7435" W	0.00	1716.27	1716.28	180.79	0.62
11212.00	91.90	180.40	9669.99	-1748.08	-24.16	588988.38	679201.93	32°37'4.3835" N	-103°45'4.7527" W	-3.75	1748.24	1748.25	180.79	5.76
11243.00	91.60	180.10	9669.04	-1779.07	-24.30	588957.39	679201.79	32°37'4.0769" N	-103°45'4.7563" W	-0.97	1779.23	1779.23	180.78	1.37
11274.00	90.90	179.10	9668.36	-1810.06	-24.08	588926.40	679202.01	32°37'3.7702" N	-103°45'4.7558" W	-2.26	1810.21	1810.22	180.76	3.94
11307.00	90.70	179.30	9667.90	-1843.05	-23.62	588893.41	679202.47	32°37'3.4437" N	-103°45'4.7525" W	-0.61	1843.20	1843.20	180.73	0.86
11338.00	90.70	179.20	9667.52	-1874.05	-23.21	588862.41	679202.88	32°37'3.1370" N	-103°45'4.7497" W	0.00	1874.19	1874.19	180.71	0.32
11368.00	90.00	178.90	9667.34	-1904.04	-22.71	588832.42	679203.38	32°37'2.8402" N	-103°45'4.7458" W	-2.33	1904.18	1904.18	180.68	2.54
11400.00	89.80	178.60	9667.40	-1936.03	-22.02	588800.43	679204.07	32°37'2.5235" N	-103°45'4.7397" W	-0.63	1936.16	1936.16	180.65	1.13
11432.00	89.60	178.60	9667.56	-1968.02	-21.24	588768.44	679204.85	32°37'2.2070" N	-103°45'4.7326" W	-0.63	1968.14	1968.14	180.62	0.62
11464.00	89.30	178.50	9667.87	-2000.01	-20.43	588736.45	679205.66	32°37'1.8904" N	-103°45'4.7252" W	-0.94	2000.12	2000.12	180.59	0.99
11496.00	89.10	178.60	9668.32	-2032.00	-19.62	588704.46	679206.47	32°37'1.5738" N	-103°45'4.7178" W	-0.63	2032.09	2032.09	180.55	0.70
11528.00	88.90	178.20	9668.88	-2063.98	-18.72	588672.48	679207.37	32°37'1.2573" N	-103°45'4.7094" W	-0.62	2064.06	2064.07	180.52	1.40
11560.00	89.50	179.40	9669.32	-2095.97	-18.05	588640.49	679208.04	32°37'0.9407" N	-103°45'4.7036" W	1.87	2096.04	2096.05	180.49	4.19
11592.00	89.40	179.30	9669.63	-2127.97	-17.69	588608.49	679208.40	32°37'0.6241" N	-103°45'4.7014" W	-0.31	2128.03	2128.04	180.48	0.44
11624.00	90.40	180.00	9669.69	-2159.97	-17.49	588576.49	679208.60	32°37'0.3074" N	-103°45'4.7012" W	3.13	2160.03	2160.04	180.46	3.81
11655.00	91.20	180.20	9669.25	-2190.96	-17.55	588545.50	679208.54	32°37'0.0007" N	-103°45'4.7038" W	2.58	2191.02	2191.03	180.46	2.66
11687.00	91.30	180.20	9668.56	-2222.96	-17.66	588513.50	679208.43	32°36'59.6842" N	-103°45'4.7071" W	0.31	2223.02	2223.03	180.46	0.31
11719.00	92.40	181.30	9667.52	-2254.93	-18.08	588481.53	679208.01	32°36'59.3677" N	-103°45'4.7141" W	3.44	2255.00	2255.01	180.46	4.86
11751.00	92.30	181.00	9666.21	-2286.90	-18.72	588449.56	679207.37	32°36'59.0515" N	-103°45'4.7236" W	-0.31	2286.97	2286.98	180.47	0.99
11783.00	91.90	180.80	9665.04	-2318.88	-19.22	588417.58	679206.87	32°36'58.7351" N	-103°45'4.7316" W	-1.25	2318.95	2318.96	180.47	1.40
11814.00	91.60	180.50	9664.09	-2349.86	-19.57	588386.60	679206.52	32°36'58.4285" N	-103°45'4.7376" W	-0.97	2349.93	2349.94	180.48	1.37
11846.00	91.40	180.60	9663.25	-2381.85	-19.88	588354.61	679206.21	32°36'58.1120" N	-103°45'4.7433" W	-0.62	2381.92	2381.93	180.48	0.70
11878.00	91.70	181.80	9662.39	-2413.83	-20.55	588322.63	679205.54	32°36'57.7956" N	-103°45'4.7532" W	0.94	2413.91	2413.91	180.49	3.86
11910.00	91.50	181.80	9661.49	-2445.80	-21.56	588290.66	679204.53	32°36'57.4793" N	-103°45'4.7670" W	-0.63	2445.89	2445.89	180.50	0.63
11942.00	92.10	182.70	9660.49	-2477.76	-22.81	588258.70	679203.28	32°36'57.1631" N	-103°45'4.7837" W	1.87	2477.86	2477.86	180.53	3.38
11974.00	92.00	182.50	9659.34	-2509.70	-24.26	588226.76	679201.83	32°36'56.8471" N	-103°45'4.8027" W	-0.31	2509.82	2509.82	180.55	0.70
12006.00	91.70	182.60	9658.31	-2541.66	-25.68	588194.80	679200.41	32°36'56.5310" N	-103°45'4.8214" W	-0.94	2541.79	2541.79	180.58	0.99
12038.00	91.40	182.40	9657.45	-2573.61	-27.08	588162.85	679199.01	32°36'56.2148" N	-103°45'4.8397" W	-0.94	2573.76	2573.76	180.60	1.13
12070.00	91.30	182.00	9656.69	-2605.58	-28.31	588130.88	679197.78	32°36'55.8986" N	-103°45'4.8561" W	-0.31	2605.74	2605.74	180.62	1.29
12102.00	91.10	181.90	9656.02	-2637.56	-29.40	588098.90	679196.69	32°36'55.5822" N	-103°45'4.8709" W	-0.63	2637.72	2637.72	180.64	0.70
12134.00	90.90	182.00	9655.46	-2669.53	-30.49	588066.93	679195.60	32°36'55.2659" N	-103°45'4.8857" W	-0.62	2669.71	2669.71	180.65	0.70
12165.00	90.70	181.90	9655.03	-2700.51	-31.54	588035.95	679194.55	32°36'54.9594" N	-103°45'4.9000" W	-0.65	2700.69	2700.70	180.67	0.72
12197.00	90.40	181.50	9654.72	-2732.50	-32.49	588003.96	679193.60	32°36'54.6429" N	-103°45'4.9131" W	-0.94	2732.69	2732.69	180.68	1.56
12229.00	91.30	181.50	9654.25	-2764.48	-33.33	587971.98	679192.76	32°36'54.3265" N	-103°45'4.9250" W	2.81	2764.68	2764.68	180.69	2.81
12260.00	91.30	181.50	9653.55	-2795.46	-34.14	587941.00	679191.95	32°36'54.0199" N	-103°45'4.9365" W	0.00	2795.67	2795.67	180.70	0.00
12292.00	91.00	181.00	9652.90	-2827.45	-34.84	587909.01	679191.25	32°36'53.7035" N	-103°45'4.9467" W	-0.94	2827.66	2827.66	180.71	1.82
12324.00	90.60	181.00	9652.46	-2859.44	-35.39	587877.02	679190.70	32°36'53.3869" N	-103°45'4.9552" W	-1.25	2859.66	2859.66	180.71	1.25
12356.00	90.40	180.60	9652.18	-2891.44	-35.84	587845.02	679190.25	32°36'53.0704" N	-103°45'4.9625" W	-0.62	2891.65	2891.66	180.71	1.40
12388.00	91.60	181.40	9651.62	-2923.43	-36.40	587813.03	679189.69	32°36'52.7538" N	-103°45'4.9711" W	3.75	2923.65	2923.65	180.71	4.51

Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	Northing (Ft)	Easting (Ft)	Latitude DMS	Longitude DMS	Build Rate °/100Ft	VS (Ft)	Closure (Ft)	Closure Dir Deg	DLS °/100Ft
12420.00	91.60	181.50	9650.73	-2955.40	-37.21	587781.06	679188.88	32°36'52.4375" N	-103°45'4.9826" W	0.00	2955.63	2955.64	180.72	0.31
12451.00	91.30	181.40	9649.94	-2986.38	-37.99	587750.08	679188.10	32°36'52.1310" N	-103°45'4.9937" W	-0.97	2986.62	2986.62	180.73	1.02
12483.00	90.90	181.10	9649.33	-3018.37	-38.69	587718.09	679187.40	32°36'51.8145" N	-103°45'5.0039" W	-1.25	3018.61	3018.62	180.73	1.56
12515.00	90.50	181.20	9648.94	-3050.36	-39.33	587686.10	679186.76	32°36'51.4980" N	-103°45'5.0135" W	-1.25	3050.61	3050.61	180.74	1.29
12547.00	90.30	181.00	9648.71	-3082.35	-39.95	587654.11	679186.14	32°36'51.1814" N	-103°45'5.0227" W	-0.63	3082.61	3082.61	180.74	0.88
12579.00	90.00	180.90	9648.63	-3114.35	-40.48	587622.11	679185.61	32°36'50.8648" N	-103°45'5.0310" W	-0.94	3114.60	3114.61	180.74	0.99
12610.00	91.10	181.40	9648.33	-3145.34	-41.10	587591.12	679184.99	32°36'50.5582" N	-103°45'5.0402" W	3.55	3145.60	3145.61	180.75	3.90
12642.00	90.80	181.30	9647.80	-3177.33	-41.85	587559.13	679184.24	32°36'50.2417" N	-103°45'5.0511" W	-0.94	3177.59	3177.60	180.75	0.99
12674.00	90.60	181.10	9647.41	-3209.32	-42.52	587527.14	679183.57	32°36'49.9252" N	-103°45'5.0610" W	-0.63	3209.59	3209.60	180.76	0.88
12706.00	91.20	181.60	9646.91	-3241.30	-43.28	587495.16	679182.81	32°36'49.6087" N	-103°45'5.0718" W	1.88	3241.58	3241.59	180.76	2.44
12738.00	91.00	181.40	9646.29	-3273.29	-44.12	587463.17	679181.97	32°36'49.2923" N	-103°45'5.0837" W	-0.63	3273.57	3273.59	180.77	0.88
12769.00	90.40	181.10	9645.91	-3304.28	-44.79	587432.18	679181.30	32°36'48.9857" N	-103°45'5.0936" W	-1.94	3304.57	3304.58	180.78	2.16
12801.00	90.20	181.40	9645.75	-3336.27	-45.49	587400.19	679180.60	32°36'48.6691" N	-103°45'5.1038" W	-0.63	3336.57	3336.58	180.78	1.13
12833.00	92.00	181.80	9645.13	-3368.25	-46.38	587368.21	679179.71	32°36'48.3527" N	-103°45'5.1163" W	5.62	3368.55	3368.57	180.79	5.76
12865.00	91.60	181.70	9644.13	-3400.22	-47.36	587336.24	679178.73	32°36'48.0364" N	-103°45'5.1297" W	-1.25	3400.53	3400.55	180.80	1.29
12897.00	91.30	181.50	9643.32	-3432.20	-48.25	587304.26	679177.84	32°36'47.7201" N	-103°45'5.1422" W	-0.94	3432.52	3432.54	180.81	1.13
12929.00	91.00	181.30	9642.67	-3464.18	-49.03	587272.28	679177.06	32°36'47.4036" N	-103°45'5.1534" W	-0.94	3464.51	3464.53	180.81	1.13
12961.00	90.50	181.10	9642.26	-3496.17	-49.70	587240.29	679176.39	32°36'47.0871" N	-103°45'5.1633" W	-1.56	3496.50	3496.52	180.81	1.68
12993.00	90.20	180.90	9642.06	-3528.17	-50.26	587208.29	679175.83	32°36'46.7705" N	-103°45'5.1719" W	-0.94	3528.50	3528.52	180.82	1.13
13025.00	90.20	180.80	9641.95	-3560.16	-50.74	587176.30	679175.35	32°36'46.4540" N	-103°45'5.1795" W	0.00	3560.50	3560.52	180.82	0.31
13057.00	89.80	180.70	9641.95	-3592.16	-51.16	587144.30	679174.93	32°36'46.1374" N	-103°45'5.1864" W	-1.25	3592.50	3592.52	180.82	1.29
13088.00	90.90	180.90	9641.76	-3623.15	-51.59	587113.31	679174.50	32°36'45.8307" N	-103°45'5.1934" W	3.55	3623.50	3623.52	180.82	3.61
13120.00	90.90	180.80	9641.26	-3655.15	-52.06	587081.31	679174.03	32°36'45.5141" N	-103°45'5.2010" W	0.00	3655.50	3655.52	180.82	0.31
13151.00	91.10	180.70	9640.72	-3686.14	-52.47	587050.32	679173.62	32°36'45.2075" N	-103°45'5.2078" W	0.65	3686.49	3686.51	180.82	0.72
13183.00	90.90	180.50	9640.16	-3718.13	-52.80	587018.33	679173.29	32°36'44.8909" N	-103°45'5.2137" W	-0.62	3718.49	3718.51	180.81	0.88
13215.00	90.60	180.10	9639.74	-3750.13	-52.97	586986.33	679173.12	32°36'44.5743" N	-103°45'5.2177" W	-0.94	3750.48	3750.50	180.81	1.56
13247.00	90.60	180.20	9639.40	-3782.13	-53.06	586954.33	679173.03	32°36'44.2577" N	-103°45'5.2208" W	0.00	3782.48	3782.50	180.80	0.31
13279.00	90.40	179.70	9639.12	-3814.13	-53.03	586922.33	679173.06	32°36'43.9410" N	-103°45'5.2225" W	-0.62	3814.48	3814.50	180.80	1.68
13311.00	90.40	179.40	9638.90	-3846.12	-52.78	586890.34	679173.31	32°36'43.6244" N	-103°45'5.2216" W	0.00	3846.47	3846.49	180.79	0.94
13342.00	90.30	179.30	9638.71	-3877.12	-52.43	586859.34	679173.66	32°36'43.3176" N	-103°45'5.2195" W	-0.32	3877.46	3877.48	180.77	0.46
13374.00	90.00	179.50	9638.63	-3909.12	-52.09	586827.34	679174.00	32°36'43.0010" N	-103°45'5.2176" W	-0.94	3909.46	3909.47	180.76	1.13
13406.00	90.70	179.50	9638.43	-3941.12	-51.81	586795.34	679174.28	32°36'42.6844" N	-103°45'5.2164" W	2.19	3941.45	3941.46	180.75	2.19
13438.00	90.30	179.30	9638.15	-3973.12	-51.48	586763.34	679174.61	32°36'42.3677" N	-103°45'5.2145" W	-1.25	3973.44	3973.45	180.74	1.40
13470.00	90.50	179.10	9637.93	-4005.11	-51.03	586731.35	679175.06	32°36'42.0511" N	-103°45'5.2113" W	0.63	4005.43	4005.44	180.73	0.88
13502.00	91.10	179.30	9637.48	-4037.10	-50.58	586699.36	679175.51	32°36'41.7345" N	-103°45'5.2082" W	1.87	4037.42	4037.42	180.72	1.98
13534.00	91.70	179.60	9636.70	-4069.09	-50.28	586667.37	679175.81	32°36'41.4179" N	-103°45'5.2066" W	1.88	4069.40	4069.40	180.71	2.10
13566.00	91.60	179.40	9635.78	-4101.08	-50.00	586635.38	679176.09	32°36'41.1014" N	-103°45'5.2054" W	-0.31	4101.38	4101.38	180.70	0.70
13596.00	91.00	179.50	9635.10	-4131.07	-49.71	586605.39	679176.38	32°36'40.8046" N	-103°45'5.2040" W	-2.00	4131.37	4131.37	180.69	2.03
13628.00	91.20	179.70	9634.48	-4163.06	-49.48	586573.40	679176.61	32°36'40.4880" N	-103°45'5.2034" W	0.63	4163.35	4163.36	180.68	0.88
13659.00	90.90	179.80	9633.92	-4194.06	-49.35	586542.40	679176.74	32°36'40.1813" N	-103°45'5.2038" W	-0.97	4194.35	4194.35	180.67	1.02
13691.00	90.90	179.80	9633.41	-4226.05	-49.24	586510.41	679176.85	32°36'39.8647" N	-103°45'5.2045" W	0.00	4226.34	4226.34	180.67	0.00

Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	Northing (Ft)	Easting (Ft)	Latitude DMS	Longitude DMS	Build Rate %/100Ft	VS (Ft)	Closure (Ft)	Closure Dir Deg	DLS %/100Ft
13723.00	91.00	180.00	9632.88	-4258.05	-49.18	586478.41	679176.91	32°36'39.5481" N	-103°45'5.2059" W	0.31	4258.33	4258.33	180.66	0.70
13755.00	90.80	179.90	9632.38	-4290.05	-49.15	586446.41	679176.94	32°36'39.2315" N	-103°45'5.2077" W	-0.63	4290.33	4290.33	180.66	0.70
13786.00	90.00	180.00	9632.16	-4321.04	-49.13	586415.42	679176.96	32°36'38.9247" N	-103°45'5.2093" W	-2.58	4321.32	4321.32	180.65	2.60
13818.00	89.60	180.00	9632.28	-4353.04	-49.13	586383.42	679176.96	32°36'38.6081" N	-103°45'5.2114" W	-1.25	4353.32	4353.32	180.65	1.25
13850.00	89.10	180.10	9632.64	-4385.04	-49.16	586351.42	679176.93	32°36'38.2915" N	-103°45'5.2137" W	-1.56	4385.32	4385.32	180.64	1.59

BHL: 13899 MD, 89.10°

13899.00	89.10	180.10	9633.41	-4434.04	-49.24	586302.42	679176.85	32°36'37.8067" N	-103°45'5.2179" W	0.00	4434.31	4434.31	180.64	0.00
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MAGNETICS INFORMATION

Magnetic Model: C:\HawkEye\IGRF2010.MIF

Date for Magnetics: 11/15/2011

Latitude: 32°37'21.6799" N

Longitude: -103°45'4.3583" W

Magnetic Declination: 7.65

Total Correction(Mag to Grid): 7.34

Field Strength (nt): 48821

B-X Component (nt): 23820

B-Y Component (nt): 3200

B-Z Component (nt): 42496

B-Horz Component (nt): 24034

Dip Angle: 60.51

TARGET DATA

Name	Shape	Easting (Ft)	Northing (Ft)	Subsea TVD (Ft)	NS (Ft)	EW (Ft)	Side A (Ft)	Side B (Ft)	Diameter (Ft)
LP	CYLINDER	679225.09	590170.46	9674.00	-566.00	-1.00	100.00	100.00	100.00
PBHL	CYLINDER	679178.09	586279.93	9719.00	-4456.53	-48.00	100.00	200.00	100.00



NM-East
NAD27
Grid Correction = 7.338° E

Final As-Drilled
4434.31' Displacement from S/L
@ 180.64° Azimuth from S/L
South 4434.04' West: 49.16'
TVD 9633.41' MD. 13899.00'
Y 586302.42
X 679176.85

Final As-Drilled
January 25, 2012



Ocelot 34 Federal Com #1H Lea County, New MEXico Patterson #41

