

Pathfinder Energy Services

BHL Report

Page 1
Job No: J-WT-0501-0009-WTWT
Date: 2/3/2005
Time: 10:33 am
Wellpath ID: Final Reports
Date Created: 1/23/2005
Last Revision: 2/2/2005

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 73.78 deg.

Survey Reference: WELLHEAD
Reference World Coordinates: Lat. 33.4.12 N - Lon. 103.10.6 W
Reference GRID System: LAMBERT Zone: Texas N Central
Reference GRID Coordinates: 264480.12 X 557319.09 Y
North Aligned to: TRUE NORTH
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

Platinum Exploration
Lea County
Patterson #59
T.D. Pope 35 #1-H
Pope 35

SUR: B-35-14s-37e, 810/N & 1980/E
BHL: A-35-14s-37e, 331/N & 349/E
API # 30-025-36933

Measured Depth	14346.00	(ft)
Inclination	92.15	(deg)
Azimuth	73.56	(deg)
True Vertical Depth	12633.25	(ft)
Vertical Section	1700.19	(ft)
Grid Coordinates		
X	266134.68	(ft)
Y	557709.41	(ft)
Rectangular Offsets		
North/South	479.00 N	(ft)
East/West	1631.33 E	(ft)
Closure Dist & Dir	1700.20@ 73.64	(deg)
Dogleg Severity	0.00	(deg/100ft)
Build Rate	0.00	(deg/100ft)
Walk Rate	0.00	(deg/100ft)



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Platinum Exploration
Lea County
Patterson #59
T.D. Pope 35 #1-H
Pope 35

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Vertical Section (ft)	TVD (ft)	T O T A L Rectangular Offsets (ft) (ft)		Build Rate (dg/100ft)	Walk Rate (dg/100ft)	DLS (dg/100ft)
Gyro-Data Tie-in									
12547.00	2.30	190.30	6.42	12544.13	12.17 S	10.23 E	0.00	0.00	0.00
12570.00	4.04	83.49	7.02	12567.11	12.53 S	10.95 E	7.57	-464.39	22.58
2638.00	29.19	74.27	26.27	12631.75	7.69 S	29.60 E	36.99	-13.56	37.07
12669.00	39.66	67.50	43.72	12657.30	1.83 S	46.06 E	33.77	-21.84	35.91
12701.00	51.88	68.11	66.48	12679.58	6.80 N	67.26 E	38.19	1.91	38.21
12732.00	64.72	66.71	92.63	12695.83	16.93 N	91.55 E	41.42	-4.52	41.60
12763.00	76.77	68.82	121.69	12706.04	27.97 N	118.59 E	38.87	6.81	39.40
12793.00	81.95	74.00	151.12	12711.58	37.35 N	146.52 E	17.27	17.27	24.21
12825.00	84.50	74.71	182.90	12715.35	45.92 N	177.12 E	7.97	2.22	8.27
12857.00	87.32	74.27	214.81	12717.63	54.45 N	207.87 E	8.81	-1.38	8.92
12889.00	90.40	73.74	246.80	12718.27	63.27 N	238.63 E	9.63	-1.66	9.77
12921.00	93.12	74.44	278.78	12717.29	72.03 N	269.38 E	8.50	2.19	8.78
12952.00	95.06	75.06	309.70	12715.08	80.17 N	299.21 E	6.26	2.00	6.57
12984.00	95.94	75.32	341.54	12712.01	88.31 N	330.01 E	2.75	0.81	2.87
13016.00	97.17	76.11	373.31	12708.36	96.15 N	360.81 E	3.84	2.47	4.56
13047.00	97.25	76.81	404.03	12704.47	103.35 N	390.71 E	0.26	2.26	2.26
13078.00	97.87	77.34	434.71	12700.39	110.23 N	420.67 E	2.00	1.71	2.62
13110.00	96.29	76.64	466.42	12696.44	117.37 N	451.60 E	-4.94	-2.19	5.39
13142.00	95.06	76.64	498.22	12693.28	124.73 N	482.59 E	-3.84	0.00	3.84
13174.00	93.56	76.11	530.09	12690.87	132.25 N	513.60 E	-4.69	-1.66	4.97
13206.00	92.51	74.88	562.03	12689.18	140.25 N	544.53 E	-3.28	-3.84	5.05
13238.00	92.07	73.47	594.01	12687.90	148.97 N	575.29 E	-1.38	-4.41	4.61
3268.00	92.42	73.30	623.98	12686.73	157.54 N	604.02 E	1.17	-0.57	1.30
13300.00	92.42	73.65	655.95	12685.37	166.64 N	634.67 E	0.00	1.09	1.09
13332.00	92.51	73.47	687.92	12684.00	175.69 N	665.33 E	0.28	-0.56	0.63

Pathfinder Energy Services

Survey Report

Page 2

Date: 2/3/2005

Wellpath ID: Final Reports

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Vertical Section (ft)	TVD (ft)	TOTAL Rectangular Offsets (ft)		Build Rate (dg/100ft)	Walk Rate (dg/100ft)	DLS (dg/100ft)
13364.00	92.86	73.21	719.89	12682.50	184.85 N	695.96 E	1.09	-0.81	1.36
13395.00	93.12	72.86	750.84	12680.88	193.88 N	725.57 E	0.84	-1.13	1.41
13427.00	93.39	72.60	782.79	12679.07	203.37 N	756.07 E	0.84	-0.81	1.17
13459.00	93.30	72.24	814.72	12677.20	213.02 N	786.53 E	-0.28	-1.13	1.16
13491.00	93.74	71.89	846.65	12675.23	222.85 N	816.92 E	1.37	-1.09	1.76
13522.00	94.00	71.45	877.56	12673.14	232.58 N	846.28 E	0.84	-1.42	1.65
13554.00	93.83	71.63	909.46	12670.96	242.69 N	876.56 E	-0.53	0.56	0.77
13586.00	93.56	71.28	941.36	12668.89	252.84 N	906.83 E	-0.84	-1.09	1.38
13618.00	93.74	70.93	973.26	12666.86	263.19 N	937.05 E	0.56	-1.09	1.23
13649.00	93.56	71.54	1004.17	12664.88	273.14 N	966.34 E	-0.58	1.97	2.05
13681.00	93.12	72.16	1036.10	12663.02	283.09 N	996.70 E	-1.37	1.94	2.37
13713.00	93.12	72.86	1068.04	12661.28	292.69 N	1027.17 E	0.00	2.19	2.18
13745.00	92.77	72.77	1100.00	12659.63	302.13 N	1057.70 E	-1.09	-0.28	1.13
13777.00	92.42	72.86	1131.96	12658.18	311.58 N	1088.24 E	-1.09	0.28	1.13
13809.00	92.51	72.77	1163.92	12656.81	321.02 N	1118.78 E	0.28	-0.28	0.40
13841.00	92.68	72.51	1195.88	12655.36	330.56 N	1149.30 E	0.53	-0.81	0.97
13873.00	92.86	72.68	1227.84	12653.81	340.12 N	1179.80 E	0.56	0.53	0.77
13905.00	92.24	72.16	1259.80	12652.39	349.78 N	1210.27 E	-1.94	-1.62	2.53
13937.00	92.07	70.22	1291.74	12651.18	360.09 N	1240.54 E	-0.53	-6.06	6.08
13968.00	91.98	69.78	1322.66	12650.09	370.68 N	1269.65 E	-0.29	-1.42	1.45
14000.00	92.07	71.19	1354.58	12648.96	381.37 N	1299.79 E	0.28	4.41	4.41
14032.00	92.24	72.95	1386.54	12647.75	391.21 N	1330.22 E	0.53	5.50	5.52
14064.00	92.86	73.21	1418.51	12646.33	400.52 N	1360.80 E	1.94	0.81	2.10
14096.00	93.03	73.39	1450.47	12644.69	409.70 N	1391.41 E	0.53	0.56	0.77
14127.00	92.86	73.12	1481.42	12643.09	418.62 N	1421.06 E	-0.55	-0.87	1.03
14159.00	92.86	73.74	1513.38	12641.50	427.73 N	1451.69 E	0.00	1.94	1.94
14191.00	92.86	74.79	1545.34	12639.90	436.40 N	1482.45 E	0.00	3.28	3.28
14223.00	92.86	74.44	1577.30	12638.30	444.88 N	1513.27 E	0.00	-1.09	1.09
14255.00	92.59	74.35	1609.26	12636.78	453.48 N	1544.05 E	-0.84	-0.28	0.89
14287.00	92.15	73.56	1641.23	12635.46	462.31 N	1574.78 E	-1.37	-2.47	2.82
PROJECTION TO TD									
14346.00	92.15	73.56	1700.19	12633.25	479.00 N	1631.33 E	0.00	0.00	0.00

A Gyrodata Directional Survey

Field Copy Only, not definitive

for

PLATINUM EXPLORATION

Lease: T.D. POPE Well: 35, 3-1/2" DRILLPIPE

Location: PATTERSON #59, LEA COUNTY, NEW MEXICO

Job Number: MD0105GW110

Run Date: 1/21/2005 4:45:15 PM

Surveyor: HENRY DREW

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 33.065833 deg. N Longitude: 103.168056 deg. W

Azimuth Correction:

Gyro: -0.64000 deg West to Grid North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

A Gyrodata Directional Survey

PLATINUM EXPLORATION

Location: PATTERSON #59, LEA COUNTY, NEW MEXICO

Lease: T.D. POPE Well: 35, 3-1/2" DRILLPIPE

Job Number: MD0105GW110

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
0.00	0.00	0.00	0.00	0.00	0.0 0.0	0.00 N 0.00 E

0 - 12,547 FT. RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 3-1/2" DRILLPIPE						
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO PATTERSON RIG #59 R.K.B. (+ 18')						

200.00	0.92	232.96	0.46	199.99	1.6 233.0	0.97 S 1.28 W
400.00	0.51	202.35	0.27	399.98	4.0 226.4	2.75 S 2.90 W
600.00	0.80	176.31	0.20	599.96	5.9 212.4	4.97 S 3.15 W
800.00	0.64	158.53	0.14	799.95	7.9 199.7	7.39 S 2.65 W
1000.00	1.10	126.76	0.33	999.93	9.6 184.2	9.58 S 0.70 W
1200.00	1.52	127.01	0.21	1199.87	12.7 166.5	12.33 S 2.97 E
1400.00	2.15	141.93	0.39	1399.77	18.4 156.3	16.88 S 7.40 E
1600.00	1.85	138.24	0.16	1599.65	25.2 151.9	22.25 S 11.86 E
1800.00	2.44	152.64	0.40	1799.51	32.6 150.7	28.45 S 15.98 E
2000.00	2.48	154.97	0.05	1999.32	41.2 151.3	36.15 S 19.77 E
2200.00	2.87	169.79	0.40	2199.11	50.3 153.5	45.00 S 22.49 E
2400.00	2.12	182.44	0.46	2398.92	58.4 156.6	53.63 S 23.22 E
2600.00	2.08	169.53	0.24	2598.78	65.4 158.7	60.90 S 23.72 E
2800.00	1.51	167.06	0.29	2798.69	71.5 159.6	67.04 S 24.97 E
3000.00	1.47	176.47	0.12	2998.62	76.6 160.4	72.16 S 25.72 E
3200.00	0.69	199.22	0.44	3198.58	80.0 161.4	75.85 S 25.48 E
3400.00	0.32	228.87	0.22	3398.57	81.2 162.3	77.35 S 24.66 E
3600.00	0.26	56.24	0.29	3598.57	81.3 162.4	77.48 S 24.60 E
3800.00	0.36	97.10	0.12	3798.57	81.4 161.7	77.31 S 25.61 E

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PLATINUM EXPLORATION

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Lease: T.D. POPE Well: 35, 3-1/2" DRILLPIPE

Job Number: MD0105GW110

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
4000.00	0.52	51.05	0.19	3998.57	81.4 160.7	76.82 S 26.94 E
4200.00	0.42	31.69	0.09	4198.56	80.7 159.7	75.63 S 28.03 E
4400.00	0.13	352.30	0.16	4398.56	80.0 159.2	74.77 S 28.38 E
4600.00	0.67	356.78	0.27	4598.55	78.6 158.9	73.38 S 28.28 E
4800.00	0.97	329.18	0.24	4798.53	75.9 158.9	70.76 S 27.35 E
5000.00	0.70	347.33	0.19	4998.51	73.0 159.0	68.13 S 26.22 E
5200.00	1.02	338.55	0.18	5198.49	70.0 158.8	65.28 S 25.30 E
5400.00	0.81	328.50	0.13	5398.46	66.8 159.0	62.41 S 23.90 E
5600.00	1.05	335.57	0.13	5598.44	63.6 159.4	59.54 S 22.41 E
5800.00	0.80	336.64	0.12	5798.41	60.4 159.6	56.60 S 21.10 E
6000.00	0.99	332.80	0.10	5998.38	57.3 159.8	53.77 S 19.75 E
6200.00	1.04	334.41	0.03	6198.35	53.8 160.2	50.60 S 18.18 E
6400.00	0.75	335.19	0.14	6398.33	50.7 160.6	47.78 S 16.85 E
6600.00	0.73	342.40	0.05	6598.31	48.1 160.7	45.38 S 15.92 E
6800.00	1.07	338.90	0.18	6798.29	45.0 160.7	42.43 S 14.86 E
7000.00	0.86	348.16	0.13	6998.26	41.6 160.5	39.21 S 13.88 E
7200.00	0.83	324.80	0.17	7198.24	38.7 160.8	36.56 S 12.73 E
7400.00	0.75	320.15	0.05	7398.22	36.1 162.2	34.38 S 11.06 E
7600.00	0.96	328.11	0.12	7598.20	33.3 163.7	31.95 S 9.34 E
7800.00	0.90	336.44	0.07	7798.17	30.1 164.9	29.08 S 7.82 E
8000.00	0.56	337.17	0.17	7998.15	27.6 165.7	26.74 S 6.82 E
8200.00	0.54	345.41	0.04	8198.14	25.7 166.0	24.92 S 6.20 E
8400.00	0.79	349.98	0.13	8398.13	23.3 165.8	22.64 S 5.72 E

A Gyrodata Directional Survey

PLATINUM EXPLORATION

Location: PATTERSON #59, LEA COUNTY, NEW MEXICO

Lease: T.D. POPE Well: 35, 3-1/2" DRILLPIPE

Job Number: MD0105GW110

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
8600.00	0.75	13.26	0.16	8598.11	20.8 163.9	20.00 S 5.77 E
8800.00	0.46	10.47	0.14	8798.10	19.0 160.9	17.95 S 6.22 E
9000.00	0.42	11.76	0.02	8998.10	17.7 158.4	16.43 S 6.52 E
9200.00	0.58	10.99	0.08	9198.09	16.2 155.0	14.71 S 6.86 E
9400.00	0.62	9.59	0.02	9398.08	14.6 150.2	12.65 S 7.23 E
9600.00	0.32	2.51	0.15	9598.07	13.3 146.0	11.02 S 7.44 E
9800.00	0.50	4.11	0.09	9798.06	12.2 141.9	9.59 S 7.53 E
10000.00	0.78	329.50	0.23	9998.05	10.2 137.6	7.54 S 6.90 E
10200.00	0.88	348.69	0.15	10198.03	7.7 129.5	4.87 S 5.91 E
10400.00	0.99	325.41	0.20	10398.01	5.0 112.8	1.95 S 4.62 E
10600.00	0.76	321.08	0.12	10597.98	2.9 79.8	0.51 N 2.81 E
10800.00	0.83	333.51	0.09	10797.96	3.1 25.2	2.83 N 1.33 E
11000.00	0.64	315.23	0.15	10997.95	4.9 358.8	4.93 N 0.10 W
11200.00	0.97	16.59	0.43	11197.93	7.4 356.8	7.34 N 0.41 W
11400.00	1.30	38.71	0.27	11397.89	10.8 7.9	10.72 N 1.49 E
11600.00	1.22	39.65	0.04	11597.84	14.8 16.8	14.14 N 4.26 E
11800.00	1.27	61.25	0.23	11797.80	18.5 24.2	16.84 N 7.57 E
12000.00	3.61	175.73	2.15	11997.67	15.3 40.6	11.63 N 9.98 E
12200.00	2.43	176.19	0.59	12197.39	10.8 84.0	1.12 N 10.73 E
12400.00	2.04	182.31	0.23	12397.23	12.7 121.5	6.66 S 10.87 E
12547.00	2.30	190.30	0.27	12544.13	15.9 139.9	12.17 S 10.24 E

Final Station Closure: Distance: 15.91 ft Az: 139.93 deg.

A Gyrodata Directional Survey

PLATINUM EXPLORATION

Location: PATTERSON #59, LEA COUNTY, NEW MEXICO

Lease: T.D. POPE Well: 35, 3-1/2" DRILLPIPE

Job Number: MD0105GW110

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
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