

PathFinder Energy Services

BHL Report

Page 1
Job No: J-WT-0502-0029 WTWT
Date: 6/16/2005
Time: 10:42 am
Wellpath ID: Final Field Reports
Date Created: 3/3/2005
Last Revision: 6/16/2005

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 24.97 deg.

Survey Reference: WELLHEAD
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

Platinum Exploration
Denton Devonian
POOL #441
BUCKEY A #1
Lea County , NM

Decl: 7.93° Magnetic To Grid.
KBH: 22' Rotary to Ground

SUR: M-25-14s-37e, 330/S & 330/W
BHL: L-25-14s-37e, 2221/S & 1219/W
API # 30-025-05118

PES Office Supervisors:
Ron Welch
Pat Collins
PES Field Engineer:
Mike Gallaher , Jr.

Measured Depth	14451.00	(ft)
Inclination	90.92	(deg)
Azimuth	26.32	(deg)
True Vertical Depth	12405.89	(ft)
Vertical Section	2088.92	(ft)
Rectangular Offsets		
North/South	1890.52 N	(ft)
East/West	888.57 E	(ft)
Closure Dist & Dir	2088.93@ 25.17	(deg)
Dogleg Severity	0.00	(deg/100ft)
Build Rate	0.00	(deg/100ft)
Walk Rate	0.00	(deg/100ft)



A Gyrodata Directional Survey

Field Copy Only, not definitive

for

PLATINUM EXPLORATION

Lease: BUCKLEY "A" Well: NO.1, 2-7/8" DRILLPIPE
Location: POOL 441, LEA COUNTY, NEW MEXICO

Job Number: MD0305GW129

Run Date: 3/3/2005 3:56:01 PM

Surveyor: HENRY DREW

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 33.068889 deg. N Longitude: 103.160833 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: POOL 441, LEA COUNTY, NEW MEXICO

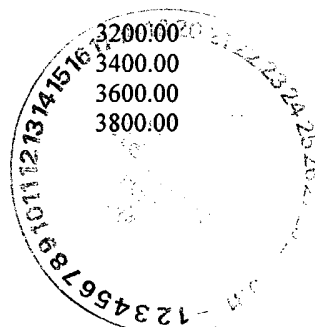
Lease: BUCKLEY "A" Well: NO.1, 2-7/8" DRILLPIPE

Job Number: MD0305GW129

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLE 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 - 12,272 FT. RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 2-7/8" DRILLPIPE						
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO POOL #441 R.K.B. (+22 FT.)						

200.00	0.24	213.56	0.12	200.00	0.4 213.6	0.34 S 0.23 W
400.00	0.23	141.43	0.14	400.00	1.0 191.8	0.99 S 0.21 W
600.00	0.18	163.41	0.05	600.00	1.6 175.5	1.60 S 0.13 E
800.00	0.23	152.42	0.03	800.00	2.3 169.9	2.26 S 0.40 E
1000.00	0.07	235.80	0.12	1000.00	2.7 169.7	2.68 S 0.49 E
1200.00	0.10	182.40	0.04	1199.99	3.0 172.7	2.93 S 0.38 E
1400.00	0.16	241.71	0.07	1399.99	3.2 177.7	3.24 S 0.13 E
1600.00	0.18	218.72	0.04	1599.99	3.6 184.9	3.62 S 0.31 W
1800.00	0.39	187.74	0.13	1799.99	4.6 187.5	4.54 S 0.60 W
2000.00	0.58	181.92	0.10	1999.98	6.3 186.6	6.23 S 0.72 W
2200.00	0.42	187.23	0.08	2199.98	8.0 186.1	7.98 S 0.85 W
2400.00	0.44	224.26	0.14	2399.97	9.4 189.1	9.27 S 1.48 W
2600.00	0.48	218.28	0.03	2599.96	10.8 193.6	10.48 S 2.53 W
2800.00	0.45	223.74	0.03	2799.96	12.2 197.1	11.69 S 3.59 W
3000.00	0.52	201.58	0.10	2999.95	13.8 198.8	13.10 S 4.47 W
3200.00	0.52	190.22	0.05	3199.94	15.7 198.5	14.84 S 4.96 W
3400.00	0.31	227.74	0.17	3399.94	17.0 198.9	16.11 S 5.53 W
3600.00	0.54	347.31	0.37	3599.93	16.7 201.5	15.55 S 6.14 W
3800.00	0.65	2.19	0.09	3799.92	14.9 205.1	13.49 S 6.31 W



A Gyrodata Directional Survey

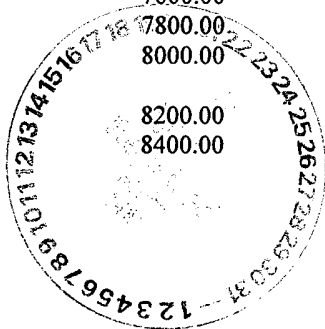
PLATINUM EXPLORATION

Location: POOL 441, LEA COUNTY, NEW MEXICO

Lease: BUCKLEY "A" Well: NO.1, 2-7/8" DRILLPIPE

Job Number: MD0305GW129

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	0.24	15.68	0.21	3999.92	13.4 207.2	11.95 S 6.15 W
4200.00	0.15	4.27	0.05	4199.92	12.8 208.1	11.29 S 6.02 W
4400.00	0.08	298.60	0.07	4399.92	12.6 209.2	10.97 S 6.12 W
4600.00	0.06	228.13	0.04	4599.92	12.7 209.9	10.97 S 6.31 W
4800.00	0.13	58.26	0.09	4799.92	12.5 209.5	10.91 S 6.18 W
5000.00	0.20	38.78	0.04	4999.91	12.0 208.7	10.51 S 5.76 W
5200.00	0.17	70.48	0.05	5199.91	11.4 207.4	10.14 S 5.27 W
5400.00	0.09	74.93	0.04	5399.91	11.1 205.8	10.00 S 4.83 W
5600.00	0.32	234.05	0.20	5599.91	11.5 206.5	10.29 S 5.13 W
5800.00	0.61	250.28	0.16	5799.91	12.8 211.0	10.98 S 6.60 W
6000.00	0.53	245.31	0.05	5999.90	14.5 215.8	11.73 S 8.45 W
6200.00	0.66	249.39	0.07	6199.88	16.3 219.6	12.52 S 10.37 W
6400.00	0.64	253.22	0.02	6399.87	18.2 223.4	13.25 S 12.51 W
6600.00	0.59	250.48	0.03	6599.86	20.1 226.3	13.91 S 14.56 W
6800.00	0.49	247.65	0.05	6799.85	21.9 228.2	14.58 S 16.32 W
7000.00	0.49	243.32	0.02	6999.84	23.5 229.4	15.29 S 17.87 W
7200.00	0.54	230.83	0.06	7199.84	25.3 230.0	16.26 S 19.35 W
7400.00	0.47	215.16	0.08	7399.83	27.0 229.5	17.53 S 20.56 W
7600.00	0.04	116.73	0.24	7599.83	27.8 229.0	18.24 S 20.96 W
7800.00	0.09	213.95	0.05	7799.83	27.9 228.7	18.41 S 20.98 W
8000.00	0.20	56.99	0.14	7999.83	27.7 228.5	18.36 S 20.79 W
8200.00	0.25	76.16	0.05	8199.82	27.0 228.0	18.07 S 20.08 W
8400.00	0.20	58.14	0.04	8399.82	26.3 227.4	17.79 S 19.37 W



A Gyrodata Directional Survey

PLATINUM EXPLORATION

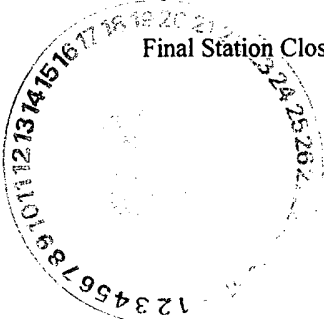
Location: POOL 441, LEA COUNTY, NEW MEXICO

Lease: BUCKLEY "A" Well: NO.1, 2-7/8" DRILLPIPE

Job Number: MD0305GW129

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	0.18	269.69	0.18	8599.82	26.2 227.7	17.60 S 19.38 W
8800.00	0.38	264.59	0.10	8799.82	26.9 229.0	17.67 S 20.34 W
9000.00	0.67	253.82	0.15	8999.81	28.6 230.8	18.06 S 22.12 W
9200.00	0.80	242.99	0.09	9199.79	31.0 232.2	19.01 S 24.48 W
9400.00	0.37	219.46	0.24	9399.78	33.0 232.4	20.15 S 26.14 W
9600.00	0.53	183.95	0.16	9599.78	34.3 231.0	21.57 S 26.61 W
9800.00	0.70	174.37	0.10	9799.77	35.6 228.2	23.71 S 26.56 W
10000.00	1.01	180.74	0.16	9999.74	37.6 224.8	26.68 S 26.46 W
10200.00	1.19	192.57	0.14	10199.71	40.7 221.5	30.46 S 26.93 W
10400.00	1.40	188.04	0.12	10399.66	44.6 218.5	34.91 S 27.73 W
10600.00	1.63	189.36	0.11	10599.59	49.2 215.4	40.14 S 28.53 W
10800.00	1.22	190.91	0.20	10799.52	53.8 213.1	45.03 S 29.39 W
11000.00	0.88	205.77	0.22	10999.49	57.3 212.1	48.50 S 30.46 W
11200.00	1.11	208.07	0.12	11199.46	60.7 211.8	51.58 S 32.04 W
11400.00	1.56	202.62	0.24	11399.41	65.3 211.3	55.81 S 34.00 W
11600.00	1.33	216.96	0.22	11599.34	70.3 211.2	60.18 S 36.44 W
11800.00	1.57	231.56	0.22	11799.28	75.2 212.1	63.73 S 39.98 W
12000.00	1.70	234.56	0.08	11999.20	80.6 213.6	67.16 S 44.55 W
12200.00	1.44	227.02	0.16	12199.12	85.8 214.7	70.60 S 48.81 W
12272.00	0.93	207.13	0.91	12271.11	87.3 214.7	71.74 S 49.74 W

Final Station Closure: Distance: 87.29 ft Az: 214.74 deg.



PathFinder Energy Services

Survey Report

Page 1
Job No: J-WT-0502-0029 WTWT
Date: 6/16/2005
Time: 10:43 am
Wellpath ID: Final Field Reports
Date Created: 3/3/2005
Last Revision: 6/16/2005

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 24.97 deg.

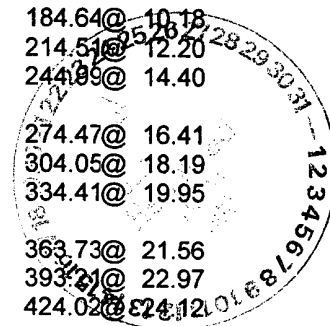
Survey Reference: WELLHEAD
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

Platinum Exploration
Denton Devonian
POOL #441
BUCKEY A #1
Lea County , NM

Decl: 7.93° Magnetic To Grid.
KBH: 22' Rotary to Ground

PES Office Supervisors:
Ron Welch
Pat Collins
PES Field Engineer:
Mike Gallaher , Jr.

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Vertical Section (ft)	TVD (ft)	TOTAL Rectangular Offsets (ft)		DLS (dg/100ft)	Closure Dist. Dir. (ft) (deg.)	
12272.00	0.93	207.13	0.00	12271.11	0.00 N	0.00 E	0.00	0.00@	0.00
SHOT @ SHOE BAD AZI									
12282.00	2.11	355.36	0.08	12281.11	0.11 N	0.05W	29.42	0.12@	334.99
12312.00	18.03	355.36	4.62	12310.55	5.32 N	0.47W	53.07	5.34@	354.90
12344.00	32.45	8.55	17.24	12339.44	18.83 N	0.41 E	48.11	18.83@	1.24
12375.00	50.03	2.74	36.37	12362.67	39.09 N	2.23 E	57.99	39.15@	3.26
100% Slide Build MTR									
12404.00	67.09	2.83	59.20	12377.74	63.71 N	3.42 E	58.83	63.80@	3.08
100% Slide W/ Build MTR./ 18' Slide 90 R									
12434.00	75.10	12.50	86.25	12387.47	91.76 N	7.26 E	40.50	92.05@	4.52
100% Slide W/ Lateral MTR.									
12466.00	80.55	12.94	116.81	12394.22	122.27 N	14.15 E	17.08	123.08@	6.60
12497.00	82.22	16.98	146.99	12398.86	151.87 N	22.06 E	13.97	153.46@	8.26
12529.00	81.95	21.99	178.52	12403.27	181.74 N	32.63 E	15.53	184.64@	10.18
12560.00	81.87	26.91	209.21	12407.64	209.67 N	45.32 E	15.72	214.51@	12.20
12592.00	83.36	31.92	240.83	12411.75	237.30 N	60.91 E	16.21	244.99@	14.40
12623.00	85.65	33.33	271.41	12414.72	263.29 N	77.54 E	8.66	274.47@	16.41
12654.00	85.65	35.00	301.92	12417.07	288.86 N	94.90 E	5.37	304.05@	18.19
12686.00	85.74	38.96	333.13	12419.48	314.35 N	114.09 E	12.34	334.41@	19.95
12717.00	85.74	39.57	363.09	12421.78	338.28 N	133.66 E	1.96	363.73@	21.56
748.00	85.56	40.01	392.97	12424.13	362.04 N	153.44 E	1.53	393.21@	22.97
12780.00	85.21	37.02	423.97	12426.71	386.99 N	173.30 E	9.38	424.02@	24.12



PathFinder Energy Services

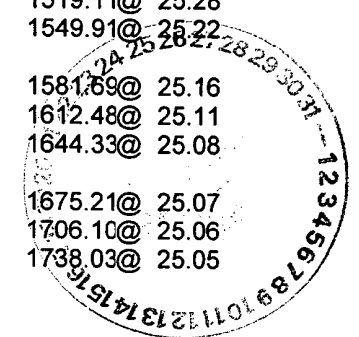
Survey Report

Page 2

Date: 6/16/2005

Wellpath ID: Final Field Reports

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Vertical Section (ft)	TVD (ft)	T O T A L Rectangular Offsets (ft)		DLS (dg/100ft)	Closure Dist. (ft)	Dir. (deg.)
12812.00	85.21	32.28	455.40	12429.38	413.21 N	191.43 E	14.76	455.40@	24.86
12843.00	84.86	27.53	486.16	12432.06	439.98 N	206.82 E	15.31	486.16@	25.18
12874.00	85.30	26.12	517.03	12434.72	467.54 N	220.76 E	4.75	517.04@	25.28
12906.00	85.65	26.39	548.92	12437.25	496.15 N	234.87 E	1.38	548.93@	25.33
12938.00	85.56	26.39	580.82	12439.70	524.73 N	249.05 E	0.28	580.83@	25.39
12969.00	85.82	26.39	611.72	12442.03	552.42 N	262.79 E	0.84	611.74@	25.44
13001.00	85.91	26.21	643.63	12444.34	581.03 N	276.93 E	0.63	643.65@	25.48
13032.00	86.35	26.30	674.55	12446.43	608.77 N	290.61 E	1.45	674.58@	25.52
13064.00	86.61	26.56	706.48	12448.39	637.37 N	304.83 E	1.15	706.52@	25.56
13095.00	84.15	26.91	737.36	12450.89	664.97 N	318.73 E	8.01	737.41@	25.61
13127.00	84.15	27.00	769.17	12454.15	693.34 N	333.16 E	0.28	769.23@	25.66
13158.00	84.24	27.00	800.00	12457.29	720.82 N	347.16 E	0.29	800.06@	25.72
13190.00	84.33	26.83	831.82	12460.48	749.21 N	361.57 E	0.60	831.90@	25.76
13221.00	84.59	26.83	862.66	12463.47	776.75 N	375.50 E	0.84	862.75@	25.80
13252.00	84.06	25.33	893.50	12466.53	804.45 N	389.06 E	5.11	893.60@	25.81
13283.00	84.33	25.24	924.34	12469.67	832.34 N	402.23 E	0.92	924.43@	25.79
13314.00	86.44	24.72	955.24	12472.16	860.35 N	415.28 E	7.01	955.33@	25.77
13345.00	88.11	24.63	986.20	12473.64	888.48 N	428.21 E	5.39	986.29@	25.73
13377.00	89.69	24.72	1018.19	12474.25	917.55 N	441.56 E	4.95	1018.28@	25.70
13408.00	92.33	24.72	1049.19	12473.71	945.71 N	454.52 E	8.52	1049.26@	25.67
13439.00	94.88	25.42	1080.12	12471.76	973.73 N	467.63 E	8.53	1080.20@	25.65
13471.00	95.50	25.86	1111.99	12468.86	1002.46 N	481.42 E	2.37	1112.07@	25.65
13502.00	96.20	26.12	1142.82	12465.70	1030.18 N	494.94 E	2.41	1142.90@	25.66
13533.00	95.67	25.86	1173.65	12462.50	1057.89 N	508.45 E	1.90	1173.74@	25.67
13565.00	95.32	24.72	1205.50	12459.43	1086.69 N	522.05 E	3.71	1205.59@	25.66
13596.00	95.32	24.63	1236.37	12456.56	1114.74 N	534.94 E	0.29	1236.45@	25.64
13627.00	95.67	24.45	1267.22	12453.59	1142.81 N	547.76 E	1.27	1267.30@	25.61
13659.00	96.02	24.37	1299.06	12450.33	1171.80 N	560.91 E	1.12	1299.13@	25.58
13691.00	96.29	24.10	1330.87	12446.90	1200.81 N	573.97 E	1.19	1330.94@	25.55
13722.00	94.26	24.10	1361.73	12444.05	1228.99 N	586.58 E	6.55	1361.79@	25.51
13754.00	94.44	23.93	1393.64	12441.62	1258.13 N	599.56 E	0.77	1393.69@	25.48
13785.00	94.88	23.49	1424.53	12439.11	1286.42 N	611.99 E	2.00	1424.57@	25.44
13817.00	94.97	23.40	1456.40	12436.36	1315.67 N	624.67 E	0.40	1456.44@	25.40
13848.00	95.06	22.43	1487.26	12433.65	1344.12 N	636.69 E	3.13	1487.29@	25.35
13880.00	95.58	22.26	1519.09	12430.68	1373.59 N	648.81 E	1.71	1519.11@	25.28
13911.00	95.85	22.08	1549.90	12427.59	1402.15 N	660.45 E	1.05	1549.91@	25.22
13943.00	96.20	22.43	1581.68	12424.24	1431.61 N	672.50 E	1.54	1581.69@	25.16
13974.00	96.11	22.87	1612.48	12420.91	1460.05 N	684.37 E	1.44	1612.48@	25.11
14006.00	94.79	24.37	1644.32	12417.87	1489.23 N	697.13 E	6.23	1644.33@	25.08
14037.00	94.97	24.37	1675.21	12415.24	1517.37 N	709.88 E	0.58	1675.21@	25.07
14068.00	94.62	24.81	1706.10	12412.64	1545.46 N	722.73 E	1.81	1706.10@	25.06
14100.00	93.21	24.37	1738.02	12410.46	1574.49 N	736.02 E	4.61	1738.03@	25.05



PathFinder Energy Services

Survey Report

Page 3

Date: 6/16/2005

Wellpath ID: Final Field Reports

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Vertical Section (ft)	TVD (ft)	TOTAL Rectangular Offsets (ft)		DLS (dg/100ft)	Closure Dist. Dir. (ft) (deg.)	
14134.00	91.28	24.37	1771.99	12409.13	1605.43 N	750.03 E	5.68	1772.00@	25.04
14163.00	90.57	24.72	1800.99	12408.66	1631.81 N	762.08 E	2.73	1800.99@	25.03
14195.00	90.13	25.60	1832.99	12408.46	1660.77 N	775.68 E	3.07	1832.99@	25.04
14226.00	90.22	25.96	1863.99	12408.37	1688.69 N	789.17 E	1.20	1863.99@	25.05
14256.00	90.13	26.34	1893.98	12408.28	1715.62 N	802.39 E	1.30	1893.98@	25.07
14288.00	90.40	26.15	1925.97	12408.13	1744.32 N	816.54 E	1.03	1925.97@	25.08
14320.00	90.75	26.01	1957.96	12407.81	1773.06 N	830.61 E	1.18	1957.97@	25.10
14351.00	90.66	26.24	1988.95	12407.43	1800.89 N	844.25 E	0.80	1988.96@	25.12
14383.00	90.92	26.32	2020.94	12406.99	1829.58 N	858.42 E	0.85	2020.95@	25.14
Straight Line Projection to Bit @ 14,451' MD.									
14451.00	90.92	26.32	2088.92	12405.89	1890.52 N	888.57 E	0.00	2088.93@	25.17

