

Pathfinder

Survey Report

Page 1

Job No: J-WT-0504-0055-WT-WT

Date: 5/10/2005

Time: 1:47 pm

Wellpath ID: Final Field Reports

Date Created: 4/18/2005

Last Revision: 5/10/2005

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 102.57 deg.

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

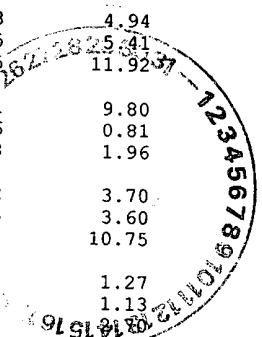
Platinum Exploration
T.D. Pope 26 #4-H
Key #36
Lea County, NM

Decl: 7.57° East to Grid
Rotary To Ground: 10'

PES Office Supervisors:
Ron Welch
Pat Collins
Pathfinder Engineer:
Tommy Moore

SUR: M-26-14s-37e, 661/S & 660/W
BHL: N 26-14s-37e, 331/S & 2134/W
API #30-025-05141

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft) (ft)		Build Rate (dg/100ft)	DLS (dg/100ft)
Tied Into Weatherford MWD Survey.									
12930.00	96.20	66.80	0.00	12635.33	280.43	330.22 N	360.95 E	0.00	0.00
The Following Are Pathfinder MWD Surveys.									
12951.00	96.46	65.05	21.00	12633.01	297.18	338.73 N	380.01 E	1.24	8.37
12982.00	94.79	71.29	31.00	12629.97	322.62	350.20 N	408.63 E	-5.39	20.74
13013.00	91.54	75.86	31.00	12628.26	349.68	358.94 N	438.31 E	-10.48	18.07
13036.00	89.69	78.59	23.00	12628.01	370.47	364.03 N	460.73 E	-8.04	14.34
13068.00	91.01	81.49	32.00	12627.82	400.02	369.56 N	492.25 E	4.12	9.96
13099.00	94.35	83.68	31.00	12626.37	429.11	373.56 N	522.95 E	10.77	12.88
13131.00	94.79	88.43	32.00	12623.82	459.69	375.75 N	554.76 E	1.38	14.86
13162.00	91.45	90.98	31.00	12622.13	489.86	375.91 N	585.71 E	-10.77	13.55
13194.00	90.75	94.67	32.00	12621.52	521.39	374.34 N	617.66 E	-2.19	11.73
13226.00	90.22	98.19	32.00	12621.25	553.20	370.75 N	649.45 E	-1.66	11.12
13257.00	90.13	99.86	31.00	12621.15	584.14	365.89 N	680.06 E	-0.29	5.39
13288.00	91.98	105.04	31.00	12620.58	615.12	359.21 N	710.32 E	5.97	17.74
13319.00	91.71	109.70	31.00	12619.58	645.98	349.96 N	739.88 E	-0.87	15.05
13350.00	88.55	113.83	31.00	12619.51	676.58	338.47 N	768.66 E	-10.19	16.77
13382.00	88.29	119.81	32.00	12620.39	707.57	324.05 N	797.20 E	-0.81	18.70
13414.00	89.69	123.59	32.00	12620.96	737.79	307.24 N	824.41 E	4.38	12.59
13445.00	91.19	127.36	31.00	12620.72	766.34	289.25 N	849.65 E	4.84	13.09
13477.00	90.40	132.64	32.00	12620.28	794.73	268.69 N	874.15 E	-2.47	16.68
13508.00	90.40	137.91	31.00	12620.06	820.80	246.67 N	895.96 E	0.00	17.00
13540.00	90.57	139.23	32.00	12619.79	846.69	222.68 N	917.13 E	0.53	4.16
13572.00	90.84	139.49	32.00	12619.40	872.31	198.40 N	937.97 E	0.84	1.17
13603.00	90.04	137.38	31.00	12619.16	897.43	175.21 N	958.54 E	-2.58	7.28
13635.00	90.40	137.65	32.00	12619.03	923.66	151.61 N	980.15 E	1.13	1.41
13666.00	90.75	139.14	31.00	12618.72	948.80	128.43 N	1000.73 E	1.13	4.94
13698.00	89.87	137.65	32.00	12618.55	974.74	104.51 N	1021.98 E	-2.75	11.92
13729.00	90.04	133.96	31.00	12618.57	1000.67	82.29 N	1043.59 E	0.55	11.92
13760.00	90.57	130.97	31.00	12618.41	1027.54	61.36 N	1066.45 E	1.71	9.80
13794.00	90.66	131.23	34.00	12618.04	1057.41	39.01 N	1092.07 E	0.26	0.81
13826.00	90.57	131.85	32.00	12617.70	1085.40	17.79 N	1116.02 E	-0.28	1.96
13857.00	90.13	130.79	31.00	12617.51	1112.58	2.68 S	1139.30 E	-1.42	3.70
13888.00	89.78	131.85	31.00	12617.54	1139.76	23.15 S	1162.59 E	-1.13	3.60
13919.00	88.72	135.01	31.00	12617.94	1166.36	44.45 S	1185.09 E	-3.42	10.75
13950.00	88.90	134.66	31.00	12618.58	1192.57	66.30 S	1207.07 E	0.58	1.27
13982.00	88.99	134.31	32.00	12619.17	1219.73	88.72 S	1229.90 E	0.28	1.13
14014.00	89.34	135.10	32.00	12619.64	1246.82	111.23 S	1252.64 E	1.09	1.13



Pathfinder

Survey Report

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Date: 5/10/2005

Wellpath ID: Final Field Reports

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)		Build Rate (dg/100ft)	DLS (dg/100ft)
4045.00	89.87	135.27	31.00	12619.85	1272.93	133.22 S	1274.49 E	1.71	1.80
14076.00	90.13	135.80	31.00	12619.85	1298.94	155.35 S	1296.20 E	0.84	1.90
14107.00	90.66	135.54	31.00	12619.64	1324.91	177.52 S	1317.86 E	1.71	1.90
14139.00	90.31	134.40	32.00	12619.37	1351.93	200.13 S	1340.50 E	-1.09	3.73
14171.00	90.22	133.08	32.00	12619.22	1379.31	222.26 S	1363.62 E	-0.28	4.13
14202.00	90.48	134.31	31.00	12619.03	1405.84	243.67 S	1386.03 E	0.84	4.06
14233.00	90.75	135.19	31.00	12618.70	1432.08	265.50 S	1408.05 E	0.87	2.97
14265.00	89.69	134.37	32.00	12618.58	1459.15	288.04 S	1430.76 E	-3.31	4.19
Straight Line Projection To Bit @ 14325' MD.									
14325.00	89.69	134.37	60.00	12618.90	1510.15	329.99 S	1473.65 E	0.00	0.00



PathFinder Energy Service

Survey Report

Company: Platinum Exploration
 Field: Denton (Devonian)
 Site: T.D. Pope "26" #4-H
 Well: T.D. Pope "26" #4-H
 Wellpath: TD Pope 26 #4 PathFinder Reent

Date: 4/27/2005 Time: 08:05:07 Page: 1
 Co-ordinate(NE) Reference: Site: T.D. Pope "26" #4-H, Grid North
 Vertical (TVD) Reference: SITE 0.0
 Section (VS) Reference: Well (0.00N,0.00E,102.57Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Field: Denton (Devonian)
 Lea County, New Mexico
 U.S.A.

Map System: US State Plane Coordinate System 1927
 Geo Datum: NAD27 (Clarke 1866)
 Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
 Coordinate System: Site Centre
 Geomagnetic Model: igr2005

Site: T.D. Pope "26" #4-H
 Section 26, T-14S, R-37E
 660' FSL & 660' FWL

Site Position: Northing: 754891.51 ft Latitude: 33 4 11.609 N
 From: Map Easting: 854277.41 ft Longitude: 103 10 36.790 W
 Position Uncertainty: 0.00 ft North Reference: Grid
 Ground Level: 0.00 ft Grid Convergence: 0.63 deg

Well: T.D. Pope "26" #4-H

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 754891.51 ft Latitude: 33 4 11.609 N
 +E/-W 0.00 ft Easting: 854277.41 ft Longitude: 103 10 36.790 W
 Position Uncertainty: 0.00 ft

Wellpath: TD Pope 26 #4 PathFinder Reent

Current Datum: SITE
 Magnetic Data: 3/29/2005 Height 0.00 ft
 Field Strength: 49840 nT
 Vertical Section: Depth From (TVD)

Drilled From: Weatherford MWD Survey
 Tie-on Depth: 13087.00 ft
 Above System Datum: Mean Sea Level
 Declination: 8.20 deg
 Mag Dip Angle: 61.20 deg
 +E/-W Direction
 ft deg

0.00 0.00 0.00 102.57

Survey: PathFinder MWD Survey

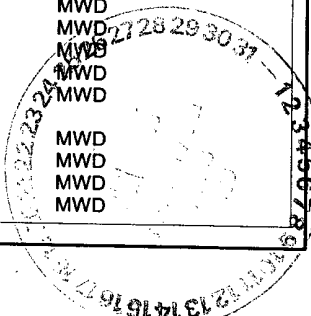
Start Date: 3/28/2005

Company: PathFinder Energy Service
 Tool: MWD;PathFinder MWD

Engineer: Tommy Moore
 Tied-to: From: Definitive Path

Survey: PathFinder MWD Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
12930.00	96.20	66.80	12635.33	330.22	360.95	280.43	0.00	0.00	0.00	MWD
12951.00	96.46	65.05	12633.01	338.74	380.00	297.17	8.37	1.24	-8.33	MWD
12982.00	94.79	71.29	12629.97	350.20	408.63	322.62	20.74	-5.39	20.13	MWD
13013.00	91.54	75.86	12628.26	358.95	438.30	349.68	18.07	-10.48	14.74	MWD
13036.00	89.69	78.59	12628.01	364.03	460.73	370.46	14.34	-8.04	11.87	MWD
13068.00	91.01	81.49	12627.82	369.57	492.24	400.01	9.96	4.12	9.06	MWD
13099.00	94.35	83.68	12626.37	373.56	522.94	429.11	12.88	10.77	7.06	MWD
13131.00	94.79	88.43	12623.82	375.76	554.76	459.68	14.86	1.37	14.84	MWD
13162.00	91.45	90.98	12622.13	375.92	585.70	489.85	13.55	-10.77	8.23	MWD
13194.00	90.75	94.67	12621.51	374.34	617.65	521.38	11.73	-2.19	11.53	MWD
13226.00	90.22	98.19	12621.24	370.76	649.45	553.19	11.12	-1.66	11.00	MWD
13257.00	90.13	99.86	12621.15	365.89	680.06	584.13	5.39	-0.29	5.39	MWD
13288.00	91.98	105.04	12620.58	359.21	710.31	615.11	17.74	5.97	16.71	MWD
13319.00	91.71	109.70	12619.58	349.97	739.88	645.98	15.05	-0.87	15.03	MWD
13350.00	88.55	113.83	12619.51	338.48	768.66	676.57	16.77	-10.19	13.32	MWD
13382.00	88.29	119.81	12620.39	324.05	797.19	707.56	18.70	-0.81	18.69	MWD
13414.00	89.69	123.59	12620.96	307.24	824.41	737.78	12.59	4.37	11.81	MWD
13445.00	91.19	127.36	12620.72	289.25	849.65	766.33	13.09	4.84	12.16	MWD
13477.00	90.40	132.64	12620.27	268.69	874.15	794.72	16.68	-2.47	16.50	MWD
13508.00	90.40	137.91	12620.06	246.68	895.96	820.80	17.00	0.00	17.00	MWD
13540.00	90.57	139.23	12619.79	222.69	917.13	846.68	4.16	0.53	4.12	MWD
13572.00	90.84	139.49	12619.39	198.41	937.97	872.31	1.17	0.84	0.81	MWD
13603.00	90.04	137.38	12619.15	175.21	958.53	897.43	7.28	-2.58	-6.81	MWD
13635.00	90.40	137.65	12619.03	151.62	980.15	923.66	1.41	1.12	0.84	MWD



PathFinder Energy Service Survey Report

Company: Platinum Exploration
Field: Denton (Devonian)
Site: T.D. Pope "26" #4-H
Well: T.D. Pope "26" #4-H
Wellpath: TD Pope 26 #4 PathFinder Reent

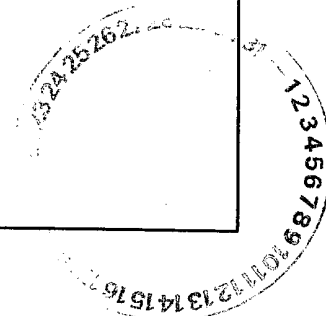
Date: 4/27/2005 Time: 08:05:07 Page: 2
Co-ordinate(NE) Reference: Site: T.D. Pope "26" #4-H, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,102.57Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: PathFinder MWD Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
13666.00	90.75	139.14	12618.72	128.44	1000.73	948.79	4.94	1.13	4.81	MWD
13698.00	89.87	137.65	12618.55	104.51	1021.98	974.74	5.41	-2.75	-4.66	MWD
13729.00	90.04	133.96	12618.57	82.29	1043.58	1000.66	11.92	0.55	-11.90	MWD
13760.00	90.57	130.97	12618.41	61.36	1066.45	1027.53	9.80	1.71	-9.65	MWD
13794.00	90.66	131.23	12618.04	39.01	1092.07	1057.40	0.81	0.26	0.76	MWD
13826.00	90.57	131.85	12617.70	17.79	1116.02	1085.40	1.96	-0.28	1.94	MWD
13857.00	90.13	130.79	12617.51	-2.67	1139.30	1112.57	3.70	-1.42	-3.42	MWD
13888.00	89.78	131.85	12617.53	-23.14	1162.58	1139.75	3.60	-1.13	3.42	MWD
13919.00	88.72	135.01	12617.94	-44.45	1185.09	1166.36	10.75	-3.42	10.19	MWD
13950.00	88.90	134.66	12618.58	-66.30	1207.07	1192.56	1.27	0.58	-1.13	MWD
13982.00	88.99	134.31	12619.17	-88.72	1229.89	1219.72	1.13	0.28	-1.09	MWD
14014.00	89.34	135.10	12619.64	-111.23	1252.63	1246.82	2.70	1.09	2.47	MWD
14045.00	89.87	135.27	12619.85	-133.22	1274.48	1272.93	1.80	1.71	0.55	MWD
14076.00	90.13	135.80	12619.85	-155.34	1296.20	1298.94	1.90	0.84	1.71	MWD
14107.00	90.66	135.54	12619.64	-177.52	1317.86	1324.90	1.90	1.71	-0.84	MWD
14139.00	90.31	134.40	12619.37	-200.13	1340.50	1351.92	3.73	-1.09	-3.56	MWD
14171.00	90.22	133.08	12619.22	-222.26	1363.62	1379.30	4.13	-0.28	-4.12	MWD
14202.00	90.48	134.31	12619.03	-243.67	1386.03	1405.84	4.06	0.84	3.97	MWD
14233.00	90.75	135.19	12618.70	-265.49	1408.04	1432.07	2.97	0.87	2.84	MWD
14265.00	89.69	134.37	12618.57	-288.03	1430.76	1459.15	4.19	-3.31	-2.56	MWD
14325.00	89.69	134.37	12618.90	-329.99	1473.65	1510.14	0.00	0.00	0.00	Projection to TD.

Annotation

MD ft	TVD ft	
14325.00	12618.90	Projection to TD.



A Gyrodata Directional Survey

for

PLATINUM EXPLORATION

Lease: T.D. Pope Well: No.4, 2-7/8" Drillpipe
Location: Key #36, Lea County, New Mexico

Job Number: MD0105GW113

Run Date: 26 Jan 2005

Surveyor: Oscar Velasquez; Henry Drew

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 33.069892 deg. N Longitude: 103.176900 deg. W

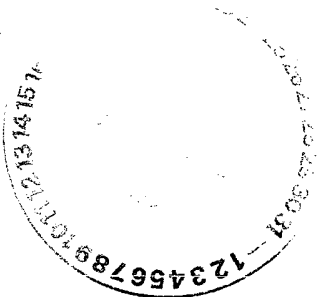
Azimuth Correction:

Gyro: -0.61000 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



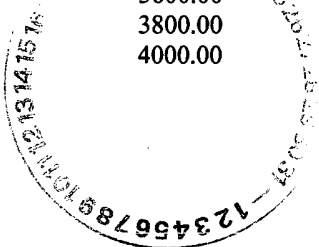
A Gyrodata Directional Survey

Platinum Exploration
Lease: T.D. Pope Well: No.4, 2-7/8" Drillpipe
Location: Key #36, Lea County, New Mexico
Job Number: MD0105GW113

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
0.00	0.00	0.00	N 0 0 E	0.00	0.00	0.0 0.0	0.00 N 0.00 E

0 - 12,515 FT. RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 2-7/8" DRILLPIPE							
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO KEY RIG NO.36 R.K.B. (+9')							

200.00	0.10	172.46	S 7 33 E	0.05	200.00	0.2 172.5	0.17 S 0.02 E
400.00	0.19	245.00	S 65 0 W	0.09	400.00	0.5 208.1	0.48 S 0.26 W
600.00	0.25	237.71	S 57 42 W	0.03	600.00	1.3 227.4	0.85 S 0.93 W
800.00	0.24	246.32	S 66 19 W	0.02	800.00	2.1 233.3	1.26 S 1.69 W
1000.00	0.26	247.74	S 67 44 W	0.01	999.99	2.9 237.3	1.59 S 2.48 W
1200.00	0.28	245.45	S 65 27 W	0.01	1199.99	3.9 239.5	1.97 S 3.34 W
1400.00	0.30	256.00	S 76 0 W	0.03	1399.99	4.9 241.9	2.30 S 4.29 W
1600.00	0.34	258.16	S 78 10 W	0.02	1599.99	6.0 244.7	2.55 S 5.38 W
1800.00	0.09	247.45	S 67 27 W	0.12	1799.98	6.7 245.9	2.73 S 6.10 W
2000.00	0.27	160.93	S 19 4 E	0.14	1999.98	6.9 242.0	3.24 S 6.09 W
2200.00	0.23	176.93	S 3 4 E	0.04	2199.98	7.2 235.3	4.09 S 5.91 W
2400.00	0.05	203.31	S 23 19 W	0.09	2399.98	7.5 232.3	4.57 S 5.93 W
2600.00	0.01	139.05	S 40 57 E	0.02	2599.98	7.6 231.8	4.68 S 5.95 W
2800.00	0.01	219.39	S 39 23 W	0.01	2799.98	7.6 231.6	4.71 S 5.94 W
3000.00	0.02	35.55	N 35 33 E	0.01	2999.98	7.6 231.6	4.70 S 5.93 W
3200.00	0.09	16.45	N 16 27 E	0.04	3199.98	7.4 232.4	4.51 S 5.87 W
3400.00	0.15	22.63	N 22 38 E	0.03	3399.98	7.0 234.3	4.12 S 5.72 W
3600.00	0.10	125.74	S 54 16 E	0.10	3599.98	6.8 234.1	3.98 S 5.48 W
3800.00	0.29	240.43	S 60 26 W	0.17	3799.98	7.2 233.2	4.32 S 5.78 W
4000.00	0.30	250.24	S 70 15 W	0.03	3999.98	8.2 234.7	4.75 S 6.72 W



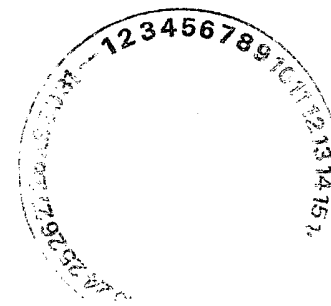
A Gyrodata Directional Survey

Platinum Exploration

Lease: T.D. Pope Well: No.4, 2-7/8" Drillpipe

Location: Key #36, Lea County, New Mexico

Job Number: MD0105GW113



MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
4200.00	0.37	243.27	S 63 16 W	0.04	4199.97	9.4 236.2	5.22 S 7.80 W
4400.00	0.45	249.48	S 69 29 W	0.04	4399.97	10.8 237.6	5.79 S 9.12 W
4600.00	0.31	296.56	N 63 27 W	0.17	4599.96	11.9 240.6	5.83 S 10.34 W
4800.00	0.28	273.40	N 86 36 W	0.06	4799.96	12.6 243.8	5.56 S 11.31 W
5000.00	0.10	76.46	N 76 28 E	0.19	4999.96	12.9 244.7	5.49 S 11.62 W
5200.00	0.13	44.72	N 44 43 E	0.03	5199.96	12.5 244.9	5.29 S 11.29 W
5400.00	0.11	350.10	N 9 54 W	0.05	5399.96	12.2 246.1	4.95 S 11.17 W
5600.00	0.39	175.94	S 4 4 E	0.25	5599.96	12.4 244.0	5.44 S 11.15 W
5800.00	1.01	207.00	S 27 0 W	0.35	5799.94	14.2 237.1	7.69 S 11.91 W
6000.00	0.60	194.47	S 14 28 W	0.22	5999.92	16.5 231.6	10.27 S 12.97 W
6200.00	0.57	190.67	S 10 40 W	0.02	6199.91	18.2 227.6	12.26 S 13.41 W
6400.00	0.47	204.61	S 24 37 W	0.08	6399.90	19.8 224.9	14.00 S 13.94 W
6600.00	0.13	246.21	S 66 13 W	0.19	6599.90	20.7 224.3	14.84 S 14.50 W
6800.00	0.25	34.05	N 34 3 E	0.18	6799.90	20.5 224.8	14.57 S 14.47 W
7000.00	0.41	27.58	N 27 35 E	0.08	6999.90	19.4 225.6	13.59 S 13.90 W
7200.00	0.42	34.21	N 34 13 E	0.03	7199.89	18.0 226.8	12.35 S 13.16 W
7400.00	0.60	14.44	N 14 26 E	0.12	7399.89	16.5 229.3	10.73 S 12.48 W
7600.00	0.86	27.26	N 27 16 E	0.15	7599.87	14.3 234.0	8.38 S 11.53 W
7800.00	1.09	36.50	N 36 30 E	0.14	7799.84	11.2 240.4	5.52 S 9.71 W
8000.00	1.28	56.64	N 56 39 E	0.23	7999.80	7.3 247.6	2.76 S 6.72 W
8200.00	1.25	77.22	N 77 13 E	0.23	8199.75	2.9 248.9	1.06 S 2.73 W
8400.00	1.17	84.25	N 84 15 E	0.09	8399.71	1.5 104.5	0.37 S 1.42 E
8600.00	1.15	97.09	S 82 55 E	0.13	8599.67	5.5 94.3	0.41 S 5.44 E
8800.00	1.27	92.57	S 87 26 E	0.08	8799.62	9.7 94.5	0.76 S 9.64 E

A Gyrodata Directional Survey

Platinum Exploration

Lease: T.D. Pope Well: No.4, 2-7/8" Drillpipe

Location: Key #36, Lea County, New Mexico

Job Number: MD0105GW113



MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
9000.00	1.40	101.25	S 78 45 E	0.12	8999.57	14.3 95.3	1.33 S 14.25 E
9200.00	1.24	103.90	S 76 6 E	0.08	9199.51	18.9 97.1	2.33 S 18.75 E
9400.00	0.94	122.72	S 57 17 E	0.23	9399.48	22.5 99.5	3.74 S 22.24 E
9600.00	0.83	164.26	S 15 44 E	0.32	9599.46	24.7 104.1	6.01 S 24.01 E
9800.00	0.74	167.86	S 12 8 E	0.05	9799.44	26.1 109.4	8.67 S 24.67 E
10000.00	0.45	161.25	S 18 45 E	0.15	9999.43	27.4 113.0	10.68 S 25.20 E
10200.00	0.26	56.79	N 56 47 E	0.29	10199.42	28.1 113.4	11.18 S 25.82 E
10400.00	2.14	15.49	N 15 29 E	0.98	10399.37	28.2 105.1	7.33 S 27.20 E
10600.00	2.68	30.21	N 30 13 E	0.41	10599.20	30.5 89.4	0.31 N 30.55 E
10800.00	2.48	27.10	N 27 6 E	0.12	10798.99	35.8 76.8	8.20 N 34.87 E
11000.00	2.48	39.85	N 39 51 E	0.28	10998.81	42.5 68.8	15.39 N 39.62 E
11200.00	2.82	26.18	N 26 11 E	0.36	11198.60	50.2 62.6	23.13 N 44.56 E
11400.00	3.94	18.24	N 18 14 E	0.61	11398.24	59.6 55.1	34.08 N 48.89 E
11600.00	5.12	358.49	N 1 31 W	0.97	11597.63	70.9 45.7	49.52 N 50.81 E
11800.00	5.19	7.83	N 7 50 E	0.42	11796.82	85.0 37.5	67.40 N 51.80 E
12000.00	4.98	17.00	N 17 0 E	0.42	11996.04	101.3 33.3	84.67 N 55.58 E
12200.00	7.25	15.47	N 15 28 E	1.13	12194.89	121.8 30.3	105.13 N 61.48 E
12400.00	5.86	14.60	N 14 36 E	0.69	12393.58	143.9 27.9	127.17 N 67.42 E
12515.00	4.96	15.41	N 15 25 E	0.79	12508.06	154.5 27.0	137.64 N 70.22 E

Final Station Closure: Distance: 154.52 ft Az: 27.03 deg.