

PathFinder Energy Services

Survey Report

Page 1
Job No: J-WT-0411-0160-WT-WT
Date: 1/14/2005
Time: 2:34 pm
Wellpath ID: Middle Lateral Final
Date Created: 12/4/2004
Last Revision: 1/14/2005

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 101.31 deg.

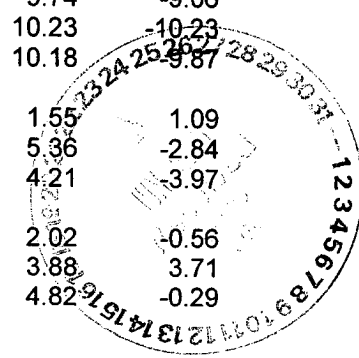
Survey Reference: WELLHEAD
Reference World Coordinates: Lat. 33.4.12 N - Lon. 103.10.6 W
Reference GRID System: LAMBERT Zone: Texas N Central
Reference GRID Coordinates: 264480.12 X 557319.09 Y
North Aligned to: TRUE NORTH
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: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

Middle Lateral
SUR: O-26-14s-37e, 660/S & 1980/E
BHL: P-26-14s-37e, 333/S & 332/E
API # 30-025-05147

PLATINUM EXPLORATION

T.D. POPE
POOL 441
T.D. POPE # 14
LEA CO, NM

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)	DLS (dg/100ft)	Walk Rate (dg/100ft)
Tied Into Gyro- Data Survey									
12200.00	3.91	42.83	-61.46	12197.00	80.02 N	46.67W	0.00	0.00	0.00
12300.00	3.32	36.09	-58.46	12296.80	84.86 N	42.65W	-0.59	0.73	-6.74
The Following Are Pathfinder MWD Surveys(Bad Azi)									
12379.00	3.43	104.00	-55.14	12375.69	86.14 N	39.00W	0.14	4.77	85.96
12410.00	16.18	106.35	-49.89	12406.18	84.69 N	33.94W	41.13	41.14	7.58
12440.00	29.90	101.43	-38.19	12433.72	82.02 N	22.54W	45.73	46.14	-16.40
12472.00	45.02	106.09	-18.82	12459.05	77.27 N	3.74W	47.25	48.04	14.56
12505.00	59.09	110.83	6.91	12479.30	68.96 N	20.84 E	42.64	44.09	14.36
12536.00	72.72	111.97	34.70	12491.93	58.65 N	47.12 E	43.97	44.09	3.68
12567.00	86.00	114.97	64.41	12497.64	46.52 N	74.99 E	42.84	43.88	9.68
12597.00	89.87	116.28	93.45	12498.72	33.56 N	102.02 E	12.90	13.62	4.37
12628.00	89.69	117.51	123.31	12498.84	19.54 N	129.66 E	-0.58	4.01	3.97
12659.00	90.31	114.52	153.30	12498.84	5.94 N	157.52 E	2.00	9.85	-9.65
12692.00	91.28	112.94	185.52	12498.38	7.34 S	187.73 E	2.94	5.62	-4.79
12724.00	91.54	112.24	216.89	12497.59	19.62 S	217.26 E	0.81	2.33	-2.19
12755.00	91.36	111.10	247.37	12496.81	31.07 S	246.06 E	-0.58	3.72	-3.68
12787.00	90.22	108.20	279.03	12496.37	41.83 S	276.19 E	-3.56	9.74	-9.06
12818.00	90.22	105.03	309.89	12496.25	50.69 S	305.89 E	0.00	10.23	-10.23
12850.00	91.01	101.87	341.86	12495.90	58.13 S	337.01 E	2.47	10.18	-9.87
12882.00	90.66	102.22	373.86	12495.44	64.81 S	368.30 E	-1.09	1.55	1.09
12913.00	89.25	101.34	404.86	12495.46	71.14 S	398.65 E	-4.55	5.36	-2.84
12944.00	88.81	100.11	435.85	12495.99	76.90 S	429.10 E	-1.42	4.21	-3.97
12976.00	89.43	99.93	467.84	12496.48	82.47 S	460.61 E	1.94	2.02	-0.56
13007.00	89.78	101.08	498.83	12496.69	88.12 S	491.09 E	1.13	3.88	3.71
13038.00	88.29	100.99	529.83	12497.21	94.05 S	521.51 E	-4.81	4.82	-0.29



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13102.00	89.25	100.90	593.81	12498.59	106.20 S	584.33 E	1.50	1.51	-0.14
13166.00	89.52	101.78	657.81	12499.27	118.79 S	647.08 E	0.42	1.44	1.37
13227.00	90.40	101.60	718.80	12499.32	131.15 S	706.81 E	1.44	1.47	-0.30
13290.00	91.45	102.66	781.79	12498.30	144.38 S	768.39 E	1.67	2.37	1.68
13352.00	92.68	101.25	843.74	12496.07	157.22 S	829.01 E	1.98	3.02	-2.27
13416.00	94.70	101.34	907.60	12491.95	169.73 S	891.63 E	3.16	3.16	0.14
13478.00	95.58	101.25	969.35	12486.39	181.82 S	952.19 E	1.42	1.43	-0.15
13541.00	94.35	100.73	1032.12	12480.94	193.78 S	1013.80 E	-1.95	2.12	-0.83
13604.00	95.23	100.73	1094.89	12475.68	205.47 S	1075.48 E	1.40	1.40	0.00
13636.00	95.32	101.69	1126.76	12472.74	211.67 S	1106.74 E	0.28	3.00	3.00
13699.00	95.06	100.81	1189.50	12467.04	223.91 S	1168.27 E	-0.41	1.45	-1.40
13760.00	91.80	101.69	1250.38	12463.39	235.79 S	1227.98 E	-5.34	5.53	1.44
13822.00	91.54	102.04	1312.35	12461.58	248.53 S	1288.63 E	-0.42	0.70	0.56
13889.00	91.71	102.04	1379.32	12459.68	262.50 S	1354.13 E	0.25	0.25	0.00
13951.00	92.07	100.37	1441.28	12457.64	274.54 S	1414.92 E	0.58	2.75	-2.69
14014.00	93.47	101.43	1504.20	12454.59	286.44 S	1476.71 E	2.22	2.79	1.68
14076.00	93.30	102.83	1566.09	12450.93	299.44 S	1537.21 E	-0.27	2.27	2.26
14140.00	90.48	104.15	1630.00	12448.82	314.36 S	1599.41 E	-4.41	4.86	2.06
ROJ TO TD 14190									
14190.00	90.48	104.15	1679.94	12448.40	326.58 S	1647.89 E	0.00	0.00	0.00



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BHL Report

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PLATINUM EXPLORATION

T.D. POPE
POOL 441
T.D. POPE # 14
LEA CO, NM

Measured Depth	14190.00	(ft)
Inclination	90.48	(deg)
Azimuth	104.15	(deg)
True Vertical Depth	12448.40	(ft)
Vertical Section	1679.94	(ft)
Grid Coordinates		
X	266107.80	(ft)
Y	556904.21	(ft)
Rectangular Offsets		
North/South	326.58 S	(ft)
East/West	1647.89 E	(ft)
Closure Dist & Dir	1679.94@101.21	(deg)
Dogleg Severity	0.00	(deg/100ft)
Build Rate	0.00	(deg/100ft)
Walk Rate	0.00	(deg/100ft)

