

PathFinder Energy Services

Survey Report

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 Job No: 101005765
 Date: 8/28/2006
 Time: 1:14 am
 Wellpath ID: 10100576
 Date Created: 8/19/2006
 Last Revision: 8/27/2006

Calculated using the Minimum Curvature Method
 Computed using PDS VER2.2.6
 Vertical Section Plane: 183.01 deg.

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

EOG RESOURCES
 Ranger 7 Fed Com #4-H
 McVay # 10
 Eddy Co. NM
 101005765

Measured Depth (ft)	Incl (deg.)	Dir Dir. (deg.)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Closure Dist. Dir. (ft) (deg.)	DLS (deg/100ft)
8657.00	85.91	183.97	7982.84	93.00	1008.82	1004.30 S	108.83W	1010.15@185.17	1.13
8749.00	84.84	183.78	7957.78	82.00	1070.41	1065.99 S	112.27W	1071.88@186.01	1.92
8812.00	84.68	183.81	7953.48	63.00	1133.15	1128.89 S	118.47W	1134.56@185.89	0.48
8874.00	84.77	183.78	7959.18	62.00	1194.68	1190.19 S	120.54W	1198.28@185.78	0.28
8936.00	84.94	183.78	7974.74	62.00	1256.63	1251.81 S	124.80W	1258.00@185.68	0.28
8998.00	84.94	184.14	7980.21	62.00	1318.38	1313.42 S	128.86W	1319.73@185.60	0.58
9061.00	84.94	183.98	7985.77	63.00	1381.12	1376.02 S	133.31W	1382.48@185.53	0.25
9123.00	85.12	183.87	7991.54	62.00	1442.88	1437.84 S	137.54W	1444.20@185.48	0.34
9216.00	85.12	183.80	7998.08	63.00	1505.63	1500.10 S	143.73W	1506.83@185.37	0.07
9309.00	84.94	183.52	8007.11	93.00	1628.18	1622.86 S	149.60W	1629.44@185.27	0.36
9401.00	83.26	183.19	8016.48	82.00	1718.69	1713.82 S	155.00W	1720.97@183.17	1.75
9494.00	83.68	182.20	8028.74	93.00	1812.12	1806.25 S	159.39W	1813.26@185.04	1.25
9588.00	84.50	181.79	8036.17	94.00	1905.63	1899.71 S	162.80W	1906.98@184.89	0.70
9619.00	84.68	181.92	8039.10	31.00	1936.49	1930.58 S	165.60W	1937.48@184.84	0.72
PROJECTION TD									
9688.00	84.68	182.00	8043.84	49.00	1985.27	1979.32 S	165.27W	1980.21@184.77	0.16