

# Pathfinder

## Survey Report

Date: 7/19/2006  
Time: 11:08 am  
Wellpath ID: 05070119  
Date Created: 7/29/2005  
Last Revision: 8/12/2005

Calculated using the Minimum Curvature Method  
Computed using PDS VER2.2.6  
Vertical Section Plane: 201.21 deg.

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

PURE RESOURCES  
MEAD #8  
EDDY CO. NM  
RIG: NABORS # 715

PATHFINDER OFFICE SUPERVISOR:  
CODY MEBANE / RON WELCH  
PATHFINDER MWD FIELD ENGINEER:  
MARTY SCHMIDT

RECEIVED  
JUL 20 2006  
OIL-AMTECH

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Closure Dist. (ft)	Dir. (deg.)	DLS (dg/100ft)
TIE IN SURVEY PROVIDED BY RIG										
9711.00	5.75	213.51	9711.00	0.00	0.00	0.00N	0.00E	0.00@	0.00	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS										
9746.00	5.63	213.51	9745.83	35.00	3.39	2.89S	1.92W	3.47@	213.51	0.34
9807.00	4.22	211.58	9806.60	61.00	8.52	7.30S	4.74W	8.71@	213.01	2.33
9870.00	3.43	211.23	9869.46	63.00	12.66	10.89S	6.93W	12.91@	212.50	1.25
9934.00	2.81	209.38	9933.37	64.00	16.10	13.89S	8.70W	16.39@	212.05	0.98
9997.00	2.55	211.14	9996.30	63.00	19.01	16.44S	10.18W	19.33@	211.77	0.43
10061.00	2.02	208.50	10060.25	64.00	21.53	18.65S	11.45W	21.88@	211.56	0.84
10124.00	1.41	215.27	10123.22	63.00	23.38	20.25S	12.43W	23.76@	211.54	1.02
10251.00	0.18	278.82	10250.20	127.00	24.94	21.50S	13.53W	25.40@	212.18	1.05
10283.00	0.26	162.89	10282.20	32.00	25.01	21.56S	13.56W	25.47@	212.16	1.17
10343.00	0.62	178.45	10342.20	60.00	25.41	22.02S	13.51W	25.83@	211.53	0.63
10378.00	0.70	183.98	10377.20	35.00	25.79	22.42S	13.52W	26.18@	211.09	0.29
10441.00	0.35	57.68	10440.20	63.00	26.00	22.70S	13.38W	26.35@	210.52	1.51
10504.00	0.35	78.34	10503.20	63.00	25.75	22.56S	13.03W	26.05@	210.02	0.20
10568.00	0.35	146.28	10567.20	64.00	25.75	22.68S	12.73W	26.01@	209.31	0.61
10631.00	0.53	146.28	10630.19	63.00	26.03	23.08S	12.46W	26.23@	208.37	0.29
10663.00	0.53	149.70	10662.19	32.00	26.21	23.33S	12.31W	26.38@	207.81	0.10
10726.00	0.26	170.36	10725.19	63.00	26.51	23.73S	12.14W	26.65@	207.09	0.48
10790.00	0.35	185.21	10789.19	64.00	26.82	24.06S	12.13W	26.95@	206.75	0.19
10853.00	0.35	201.38	10852.19	63.00	27.20	24.44S	12.22W	27.32@	206.56	0.16
10916.00	0.62	171.33	10915.19	63.00	27.69	24.95S	12.24W	27.79@	206.12	0.58
11011.00	0.53	166.76	11010.18	95.00	28.50	25.89S	12.06W	28.56@	204.98	0.11
11075.00	0.88	161.13	11074.18	64.00	29.12	26.64S	11.83W	29.15@	203.95	0.56
11106.00	1.06	156.21	11105.17	31.00	29.50	27.13S	11.64W	29.52@	203.22	0.64

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Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL		Closure		DLS (dg/100ft)
						Rectangular	Offsets	Dist.	Dir.	
						(ft)	(ft)	(ft)	(deg.)	
11170.00	1.06	198.22	11169.16	64.00	30.51	28.23 S	11.58W	30.52	@202.31	1.19
11233.00	0.18	42.30	11232.16	63.00	31.00	28.71 S	11.70W	31.00	@202.17	1.95
11296.00	0.09	20.59	11295.16	63.00	30.86	28.59 S	11.62W	30.86	@202.11	0.16
11360.00	0.09	144.87	11359.16	64.00	30.84	28.59 S	11.57W	30.84	@202.03	0.25
11423.00	0.09	105.67	11422.16	63.00	30.86	28.64 S	11.49W	30.86	@201.87	0.10
11487.00	0.35	179.32	11486.16	64.00	31.04	28.85 S	11.44W	31.04	@201.64	0.52
11511.00	0.44	172.91	11510.16	24.00	31.18	29.01 S	11.43W	31.18	@201.50	0.42
STRAIGHT LINE PROJECTION TO BIT										
11554.00	0.44	172.91	11553.16	43.00	31.48	29.34 S	11.39W	31.48	@201.21	0.00