

Pathfinder

Survey Report

Page 1
Job No: JWT-0603-0062-WTWT
Date: 3/23/2006
Time: 5:12 am
Wellpath ID: 06030062
Date Created: 3/6/2006
Last Revision: 3/23/2006

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 180.12 deg.

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

Parallel Petroleum
Dash For Cash #1
JW Rig #4
Chaves County, NM
06030062

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)		Closure Dist. (ft)	Dir. (deg.)	DLS (dg/100ft)
Tie In From Scientific Gyro Survey										
4800.00	0.57	85.36	0.00	4799.78	20.30	20.32 S	10.75 E	22.95	@152.12	0.00
First PathFinder MWD Survey										
4830.00	3.96	173.77	30.00	4829.76	21.32	21.34 S	11.01 E	24.01	@152.70	13.28
4862.00	8.79	177.81	32.00	4861.55	24.86	24.88 S	11.22 E	27.30	@155.72	15.15
4894.00	13.54	178.52	32.00	4892.93	31.05	31.07 S	11.42 E	33.10	@159.83	14.85
4926.00	16.36	179.83	32.00	4923.85	39.30	39.33 S	11.53 E	40.98	@163.67	8.88
4958.00	18.64	182.82	32.00	4954.36	48.92	48.94 S	11.29 E	50.23	@167.01	7.66
4989.00	20.75	182.29	31.00	4983.55	59.36	59.38 S	10.82 E	60.36	@169.67	6.83
5021.00	23.57	183.09	32.00	5013.18	71.41	71.43 S	10.25 E	72.17	@171.83	8.86
5053.00	27.00	183.88	32.00	5042.11	85.05	85.07 S	9.42 E	85.55	@173.68	10.77
5085.00	31.48	182.47	32.00	5070.03	100.66	100.68 S	8.56 E	101.04	@175.14	14.16
5117.00	34.38	182.12	32.00	5096.89	118.04	118.06 S	7.87 E	118.32	@176.19	9.08
5146.00	36.93	181.33	29.00	5120.45	134.94	134.95 S	7.36 E	135.15	@176.88	8.94
5178.00	40.80	182.03	32.00	5145.36	155.00	155.02 S	6.77 E	155.17	@177.50	12.17
5209.00	44.14	182.12	31.00	5168.22	175.92	175.93 S	6.01 E	176.04	@178.04	10.78
5241.00	47.75	182.03	32.00	5190.47	198.90	198.91 S	5.18 E	198.98	@178.51	11.28
5273.00	50.83	182.47	32.00	5211.34	223.14	223.15 S	4.23 E	223.15	@178.92	9.68
5305.00	53.99	182.38	32.00	5230.86	248.47	248.48 S	3.15 E	248.50	@179.27	9.88
5337.00	57.24	182.65	32.00	5248.93	274.85	274.86 S	1.99 E	274.86	@179.58	10.18
5369.00	60.15	182.12	32.00	5265.55	302.17	302.17 S	0.86 E	302.17	@179.84	9.20
5400.00	62.96	182.29	31.00	5280.32	329.41	329.41 S	0.19W	329.41	@180.03	9.08
5434.00	66.48	181.77	34.00	5294.83	360.13	360.13 S	1.28W	360.13	@180.20	10.44
5466.00	70.87	181.42	32.00	5306.47	389.92	389.92 S	2.11W	389.92	@180.31	13.76
5498.00	75.53	180.89	32.00	5315.71	420.54	420.53 S	2.72W	420.54	@180.37	14.65
5529.00	80.02	180.62	31.00	5322.28	450.83	450.82 S	3.12W	450.83	@180.40	14.51
5560.00	83.45	180.89	31.00	5326.73	481.50	481.49 S	3.53W	481.51	@180.42	11.10
5592.00	87.05	180.80	32.00	5329.38	513.38	513.37 S	4.00W	513.35	@180.45	11.25
5624.00	86.61	180.98	32.00	5331.15	545.33	545.32 S	4.49W	545.34	@180.47	1.49
5656.00	88.55	180.62	32.00	5332.50	577.30	577.29 S	4.94W	577.31	@180.49	6.17
5689.00	91.54	180.62	33.00	5332.48	610.29	610.28 S	5.29W	610.30	@180.50	9.06
5721.00	91.98	180.45	32.00	5331.49	642.28	642.27 S	5.59W	642.25	@180.50	1.47
5752.00	90.75	179.66	31.00	5330.75	673.27	673.26 S	5.62W	673.28	@180.48	4.72
5784.00	88.11	178.87	32.00	5331.07	705.26	705.25 S	5.21W	705.27	@180.42	8.61
5815.00	86.79	177.64	31.00	5332.45	736.21	736.20 S	4.27W	736.21	@180.33	5.82

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Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L		Closure Dist. Dir. (ft) (deg.)	DLS (dg/100ft)
						Rectangular (ft)	Offsets (ft)		
5847.00	86.79	177.81	32.00	5334.24	768.13	768.13 S	3.00W	768.13@180.22	0.53
5879.00	87.49	177.28	32.00	5335.84	800.06	800.06 S	1.63W	800.06@180.12	2.74
5911.00	88.20	177.90	32.00	5337.04	832.00	832.01 S	0.29W	832.01@180.02	2.94
5943.00	89.16	177.90	32.00	5337.78	863.97	863.98 S	0.88 E	863.98@179.94	3.00
5974.00	89.43	177.72	31.00	5338.16	894.94	894.95 S	2.07 E	894.95@179.87	1.05
6006.00	89.52	177.81	32.00	5338.46	926.92	926.92 S	3.32 E	926.93@179.79	0.40
6038.00	89.78	178.16	32.00	5338.65	958.89	958.90 S	4.44 E	958.91@179.73	1.36
6070.00	89.96	178.16	32.00	5338.72	990.87	990.89 S	5.47 E	990.90@179.68	0.56
6103.00	90.13	178.25	33.00	5338.70	1023.86	1023.87 S	6.50 E	1023.85@179.64	0.58
6135.00	91.01	178.78	32.00	5338.38	1055.84	1055.86 S	7.33 E	1055.88@179.60	3.21
6166.00	91.54	180.01	31.00	5337.69	1086.83	1086.85 S	7.66 E	1086.88@179.60	4.32
6197.00	91.10	179.92	31.00	5336.98	1117.82	1117.84 S	7.68 E	1117.87@179.61	1.45
6229.00	89.69	179.39	32.00	5336.75	1149.82	1149.84 S	7.87 E	1149.86@179.61	4.71
6261.00	89.08	179.31	32.00	5337.10	1181.81	1181.83 S	8.23 E	1181.86@179.60	1.92
6293.00	88.55	178.78	32.00	5337.76	1213.80	1213.82 S	8.77 E	1213.85@179.59	2.34
6325.00	88.64	178.60	32.00	5338.54	1245.78	1245.80 S	9.50 E	1245.84@179.56	0.63
6357.00	89.87	179.39	32.00	5338.96	1277.77	1277.80 S	10.06 E	1277.84@179.55	4.57
6389.00	89.87	179.66	32.00	5339.03	1309.77	1309.79 S	10.33 E	1309.84@179.55	0.84
6421.00	89.52	179.39	32.00	5339.20	1341.77	1341.79 S	10.59 E	1341.83@179.55	1.38
6453.00	89.60	179.83	32.00	5339.45	1373.77	1373.79 S	10.81 E	1373.83@179.55	1.40
6485.00	88.81	179.22	32.00	5339.89	1405.76	1405.79 S	11.07 E	1405.83@179.55	3.12
6517.00	88.81	179.04	32.00	5340.56	1437.75	1437.78 S	11.56 E	1437.82@179.54	0.56
6549.00	88.72	178.95	32.00	5341.25	1469.74	1469.76 S	12.12 E	1469.81@179.53	0.40
6581.00	88.29	178.60	32.00	5342.08	1501.72	1501.75 S	12.80 E	1501.80@179.51	1.73
6613.00	88.37	178.69	32.00	5343.02	1533.69	1533.72 S	13.56 E	1533.78@179.49	0.38
6644.00	88.72	179.13	31.00	5343.80	1564.67	1564.71 S	14.15 E	1564.77@179.48	1.81
6676.00	88.99	179.04	32.00	5344.44	1596.66	1596.70 S	14.66 E	1596.76@179.47	0.89
6708.00	88.90	179.13	32.00	5345.03	1628.65	1628.69 S	15.17 E	1628.76@179.47	0.40
6740.00	89.08	179.48	32.00	5345.60	1660.64	1660.68 S	15.56 E	1660.75@179.46	1.23
6772.00	89.16	179.39	32.00	5346.09	1692.64	1692.67 S	15.88 E	1692.75@179.46	0.38
6804.00	89.16	179.75	32.00	5346.56	1724.63	1724.67 S	16.12 E	1724.75@179.46	1.12
6836.00	89.25	180.01	32.00	5347.00	1756.63	1756.67 S	16.18 E	1756.74@179.47	0.86
6867.00	89.43	179.92	31.00	5347.36	1787.63	1787.66 S	16.20 E	1787.74@179.48	0.65
6898.00	89.78	179.75	31.00	5347.57	1818.63	1818.66 S	16.29 E	1818.74@179.49	1.26
6930.00	90.52	180.89	32.00	5347.49	1850.62	1850.66 S	16.11 E	1850.73@179.50	4.25
6961.00	92.07	181.42	31.00	5346.79	1881.61	1881.65 S	15.49 E	1881.71@179.53	5.28
6993.00	92.59	182.12	32.00	5345.49	1913.57	1913.60 S	14.50 E	1913.66@179.57	2.72
7025.00	92.77	181.68	32.00	5343.99	1945.52	1945.55 S	13.44 E	1945.60@179.60	1.48
7057.00	91.36	181.50	32.00	5342.84	1977.49	1977.52 S	12.55 E	1977.56@179.64	4.44
7089.00	90.84	181.24	32.00	5342.22	2009.47	2009.50 S	11.79 E	2009.54@179.66	1.82
7121.00	90.40	180.71	32.00	5341.88	2041.47	2041.50 S	11.24 E	2041.53@179.68	2.15
7153.00	89.69	179.66	32.00	5341.85	2073.47	2073.50 S	11.14 E	2073.53@179.69	3.96
7184.00	89.52	179.39	31.00	5342.06	2104.47	2104.49 S	11.40 E	2104.52@179.69	1.03
7216.00	89.16	179.04	32.00	5342.43	2136.46	2136.49 S	11.84 E	2136.52@179.68	1.57
7248.00	88.46	179.39	32.00	5343.10	2168.45	2168.48 S	12.27 E	2168.51@179.68	2.45
7280.00	88.02	178.69	32.00	5344.08	2200.43	2200.46 S	12.81 E	2200.50@179.67	2.58
7312.00	87.76	178.43	32.00	5345.26	2232.39	2232.43 S	13.61 E	2232.47@179.65	1.15
7343.00	88.81	178.78	31.00	5346.19	2263.37	2263.40 S	14.37 E	2263.45@179.64	3.57

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Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	Closure Dist. (ft)	Dir. (deg.)	DLS (dg/100ft)
7375.00	89.43	179.13	32.00	5346.68	2295.36	2295.39 S	14.95 E	2295.44@179.63	2.22
7406.00	91.28	179.83	31.00	5346.49	2326.35	2326.39 S	15.23 E	2326.44@179.62	6.38
7437.00	91.28	179.04	31.00	5345.79	2357.34	2357.38 S	15.54 E	2357.43@179.62	2.55
7469.00	91.28	179.31	32.00	5345.08	2389.33	2389.37 S	16.00 E	2389.42@179.62	0.84
7501.00	91.19	179.22	32.00	5344.39	2421.32	2421.36 S	16.41 E	2421.42@179.61	0.40
7533.00	91.28	178.78	32.00	5343.70	2453.31	2453.35 S	16.97 E	2453.41@179.60	1.40
7565.00	90.92	179.04	32.00	5343.09	2485.29	2485.34 S	17.58 E	2485.40@179.59	1.39
7596.00	90.75	178.95	31.00	5342.63	2516.28	2516.33 S	18.12 E	2516.35@179.59	0.62
7628.00	90.48	178.87	32.00	5342.29	2548.28	2548.32 S	18.73 E	2548.35@179.58	0.88
7659.00	90.40	178.69	31.00	5342.05	2579.27	2579.31 S	19.39 E	2579.35@179.57	0.64
7691.00	90.75	178.52	32.00	5341.73	2611.25	2611.30 S	20.17 E	2611.38@179.56	1.22
7723.00	91.28	179.22	32.00	5341.16	2643.24	2643.29 S	20.80 E	2643.37@179.55	2.74
7754.00	91.19	179.66	31.00	5340.50	2674.23	2674.28 S	21.10 E	2674.36@179.55	1.45
7786.00	89.96	180.01	32.00	5340.17	2706.23	2706.28 S	21.19 E	2706.36@179.55	4.00
7817.00	89.87	180.54	31.00	5340.22	2737.23	2737.28 S	21.04 E	2737.36@179.56	1.73
7850.00	89.69	180.10	33.00	5340.35	2770.23	2770.28 S	20.86 E	2770.36@179.57	1.44
7881.00	89.87	180.54	31.00	5340.47	2801.23	2801.28 S	20.69 E	2801.35@179.58	1.53
7912.00	89.87	181.15	31.00	5340.54	2832.22	2832.27 S	20.23 E	2832.34@179.59	1.97
7944.00	90.13	180.89	32.00	5340.54	2864.22	2864.27 S	19.66 E	2864.33@179.61	1.15
7976.00	89.60	180.80	32.00	5340.61	2896.22	2896.26 S	19.19 E	2896.33@179.62	1.68
8007.00	89.08	181.24	31.00	5340.97	2927.21	2927.26 S	18.64 E	2927.32@179.64	2.20
8039.00	88.81	181.68	32.00	5341.56	2959.20	2959.24 S	17.82 E	2959.25@179.65	1.61
8071.00	89.16	181.77	32.00	5342.13	2991.18	2991.22 S	16.86 E	2991.27@179.68	1.13
8102.00	89.52	181.77	31.00	5342.48	3022.16	3022.20 S	15.90 E	3022.25@179.70	1.16
8135.00	89.69	182.12	33.00	5342.71	3055.15	3055.18 S	14.78 E	3055.22@179.72	1.18
8165.00	89.69	181.85	30.00	5342.87	3085.13	3085.17 S	13.74 E	3085.20@179.74	0.90
8197.00	89.78	182.03	32.00	5343.02	3117.11	3117.15 S	12.66 E	3117.17@179.77	0.63
8228.00	88.55	181.24	31.00	5343.47	3148.10	3148.13 S	11.77 E	3148.15@179.79	4.72
8260.00	87.76	180.18	32.00	5344.50	3180.08	3180.11 S	11.38 E	3180.13@179.80	4.13
8291.00	87.93	180.89	31.00	5345.67	3211.06	3211.09 S	11.09 E	3211.11@179.80	2.35
8322.00	88.20	181.33	31.00	5346.71	3242.03	3242.06 S	10.49 E	3242.08@179.81	1.66
8354.00	88.46	181.42	32.00	5347.65	3274.01	3274.04 S	9.72 E	3274.06@179.83	0.86
8385.00	89.08	181.42	31.00	5348.31	3305.00	3305.02 S	8.95 E	3305.04@179.84	2.00
8417.00	89.60	181.33	32.00	5348.68	3336.99	3337.01 S	8.18 E	3337.02@179.86	1.65
8449.00	90.13	181.15	32.00	5348.76	3368.98	3369.00 S	7.49 E	3369.01@179.87	1.75
8480.00	90.22	181.42	31.00	5348.66	3399.97	3400.00 S	6.80 E	3400.00@179.89	0.92
8512.00	90.40	181.33	32.00	5348.49	3431.97	3431.99 S	6.03 E	3431.95@179.90	0.63
8543.00	90.13	181.50	31.00	5348.34	3462.96	3462.98 S	5.26 E	3462.98@179.91	1.03
8574.00	88.64	180.45	31.00	5348.68	3493.95	3493.97 S	4.74 E	3493.97@179.92	5.88
8607.00	87.58	178.07	33.00	5349.77	3526.93	3526.95 S	5.16 E	3526.95@179.92	7.89
8637.00	87.23	178.60	30.00	5351.12	3556.88	3556.90 S	6.03 E	3556.91@179.90	2.12
8669.00	87.67	178.52	32.00	5352.55	3588.84	3588.86 S	6.84 E	3588.87@179.89	1.40
8701.00	87.93	178.25	32.00	5353.78	3620.80	3620.82 S	7.74 E	3620.83@179.88	1.17
8732.00	88.20	178.60	31.00	5354.82	3651.77	3651.79 S	8.59 E	3651.80@179.87	1.43
8764.00	88.29	178.34	32.00	5355.80	3683.74	3683.77 S	9.44 E	3683.75@179.85	0.86
8795.00	88.55	178.52	31.00	5356.66	3714.72	3714.75 S	10.29 E	3714.76@179.84	1.02
8826.00	88.46	178.25	31.00	5357.47	3745.69	3745.72 S	11.17 E	3745.74@179.83	0.92
8858.00	88.37	177.81	32.00	5358.35	3777.66	3777.69 S	12.27 E	3777.71@179.81	1.40

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8889.00	88.64	178.43	31.00	5359.16	3808.63	3808.66 S 13.28 E	3808.66@179.80	2.18
8921.00	88.20	178.60	32.00	5360.04	3840.60	3840.64 S 14.11 E	3840.67@179.79	1.47
8954.00	87.58	178.25	33.00	5361.26	3873.57	3873.61 S 15.02 E	3873.63@179.78	2.16
8985.00	86.97	177.90	31.00	5362.73	3904.51	3904.55 S 16.06 E	3904.55@179.76	2.27
9017.00	87.93	177.72	32.00	5364.16	3936.45	3936.50 S 17.28 E	3936.54@179.75	3.05
9048.00	87.99	177.55	31.00	5365.26	3967.40	3967.45 S 18.56 E	3967.45@179.73	0.58
9079.00	88.05	177.55	31.00	5366.33	3998.35	3998.40 S 19.88 E	3998.45@179.72	0.19
9111.00	88.10	177.81	32.00	5367.40	4030.31	4030.36 S 21.18 E	4030.42@179.70	0.83
9142.00	87.97	177.99	31.00	5368.47	4061.27	4061.32 S 22.31 E	4061.38@179.69	0.72
9174.00	87.53	177.81	32.00	5369.72	4093.22	4093.27 S 23.48 E	4093.34@179.67	1.49
9206.00	87.35	177.64	32.00	5371.15	4125.16	4125.22 S 24.75 E	4125.25@179.66	0.77
9237.00	88.01	179.66	31.00	5372.41	4156.12	4156.18 S 25.48 E	4156.26@179.65	6.85
Straight line Projection To Bit @ 9295 MD/5374 TVD								
9295.00	88.01	179.66	58.00	5374.42	4214.08	4214.15 S 25.83 E	4214.23@179.65	0.00