ENSECO
Directional Drilling

Job Number: 10557-159
Company: Wexpro Company
Lease/Well: Wexpro Musser #34
Location: Sec 15, T11N, R97W, 6 PM
Rig Name: SST-88
RKB: 7065.0 Ft Actual
G.L. or M.S.L.: 7037.0 Ft Surveyed

State/Country: Moffat County, Colorado
Declination:
Grid:
File name: P:\QUESTA~1\130F8~1.SVY
Date/Time: 08-Feb-11 / 11:06
Curve Name: Musser #34: Final Surveys

"Musser #34: Final Surveys"

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 50.48
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Tie-In Pt									
266.00	.80	346.90	265.99	1.81	-.42	.83	1.86	346.90	.30
447.00	.90	8.60	446.97	4.44	-.49	2.45	4.47	353.65	.18
538.00	.90	29.40	537.96	5.77	-.04	3.65	5.77	359.63	.36
628.00	1.30	38.00	627.94	7.19	.94	5.30	7.26	7.43	.48
719.00	1.50	41.00	718.92	8.91	2.36	7.48	9.21	14.81	.23
810.00	1.70	41.70	809.88	10.81	4.03	9.99	11.54	20.46	.22
901.00	1.90	46.00	900.84	12.87	6.02	12.83	14.21	25.06	.27
993.00	2.10	54.80	992.78	14.90	8.49	16.03	17.15	29.68	.40
1084.00	2.60	48.80	1083.70	17.22	11.41	19.76	20.66	33.52	.61
1179.00	3.70	54.80	1178.56	20.41	15.53	24.97	25.65	37.28	1.21
1274.00	4.40	51.20	1273.32	24.46	20.88	31.67	32.16	40.49	.78
1367.99	5.30	51.00	1366.97	29.45	27.06	39.62	40.00	42.58	.96
1462.99	6.30	52.30	1461.49	35.40	34.60	49.21	49.50	44.34	1.06
Int Surface Csg									
1547.00	7.38	53.90	1544.90	41.40	42.60	59.21	59.40	45.82	1.31
1648.99	8.70	55.30	1645.88	49.65	54.24	73.43	73.53	47.53	1.31
1743.99	10.00	54.30	1739.62	58.55	66.85	88.82	88.86	48.78	1.38
1839.99	10.30	49.50	1834.12	68.99	80.14	105.72	105.75	49.28	.93
1934.99	10.20	49.50	1927.60	79.97	93.00	122.62	122.65	49.31	.11
2030.99	9.90	48.30	2022.13	90.98	105.62	139.37	139.40	49.26	.38
2125.99	9.80	52.00	2115.73	101.39	118.09	155.61	155.64	49.35	.67
2220.99	10.20	51.80	2209.29	111.57	131.07	172.10	172.13	49.59	.42
2316.99	10.00	52.80	2303.80	121.87	144.39	188.93	188.94	49.84	.28

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E Distance FT	Direction Deg	Dogleg Severity Deg/100
2411.99	10.00	53.80	2397.35	131.72	157.62	205.41	205.41	50.11	.18
2507.99	10.60	50.50	2491.81	142.26	171.15	222.56	222.56	50.27	.88
2602.99	10.30	50.00	2585.23	153.28	184.40	239.79	239.79	50.27	.33
2697.99	10.50	50.30	2678.67	164.27	197.57	256.94	256.94	50.26	.22
2793.99	10.10	51.20	2773.12	175.13	210.86	274.10	274.10	50.29	.45
2888.99	10.30	50.50	2866.62	185.75	223.91	290.92	290.93	50.32	.25
2983.99	10.10	50.00	2960.12	196.51	236.84	307.75	307.75	50.32	.23
3079.99	10.20	47.80	3054.62	207.63	249.58	324.66	324.66	50.24	.42
3174.99	9.80	49.50	3148.18	218.53	261.96	341.14	341.15	50.17	.52
3269.99	10.20	49.80	3241.73	229.21	274.54	357.64	357.64	50.14	.42
3365.99	10.40	49.50	3336.19	240.32	287.62	374.80	374.81	50.12	.22
3460.99	10.30	49.80	3429.64	251.38	300.63	391.87	391.87	50.10	.12
3556.99	10.30	50.80	3524.09	262.34	313.83	409.03	409.04	50.11	.19
3651.99	10.50	51.80	3617.53	273.06	327.22	426.18	426.18	50.16	.28
3746.99	10.60	50.00	3710.93	284.03	340.71	443.57	443.57	50.18	.36
3841.99	10.00	49.30	3804.40	295.03	353.66	460.55	460.56	50.16	.65
3936.99	10.00	48.50	3897.95	305.87	366.09	477.04	477.05	50.12	.15
4031.98	10.30	49.00	3991.46	316.91	378.68	493.77	493.79	50.07	.33
4127.98	10.00	49.50	4085.95	327.95	391.49	510.69	510.70	50.05	.33
4222.98	10.10	48.30	4179.50	338.85	403.98	527.26	527.28	50.01	.24
4318.98	10.30	48.00	4273.98	350.19	416.65	544.24	544.27	49.95	.22
4413.98	9.30	51.20	4367.59	360.68	428.94	560.41	560.43	49.94	1.20
4509.98	9.50	49.50	4462.30	370.69	441.01	576.08	576.11	49.95	.36
4604.98	8.70	47.70	4556.11	380.62	452.29	591.10	591.13	49.92	.89
4699.98	7.70	50.50	4650.13	389.50	462.51	604.64	604.67	49.90	1.13
4795.98	7.20	50.20	4745.32	397.44	472.10	617.09	617.12	49.91	.52
4890.98	6.30	47.30	4839.66	404.79	480.50	628.24	628.28	49.89	1.01
4986.98	4.50	46.30	4935.23	410.96	487.09	637.26	637.30	49.85	1.88
5081.98	3.50	50.20	5030.00	415.39	492.02	643.88	643.92	49.83	1.09
5177.98	2.50	53.30	5125.87	418.52	495.95	648.90	648.94	49.84	1.05
5272.98	1.60	46.00	5220.81	420.68	498.56	652.29	652.33	49.84	.98
5367.98	.40	222.90	5315.80	421.36	499.29	653.28	653.33	49.84	2.10
5463.98	.40	235.40	5411.79	420.92	498.79	652.62	652.66	49.84	.09
5558.98	.10	324.50	5506.79	420.80	498.47	652.29	652.34	49.83	.43
5654.98	.10	66.80	5602.79	420.90	498.49	652.38	652.42	49.82	.16
5749.98	.30	10.50	5697.79	421.18	498.62	652.65	652.69	49.81	.27
5844.98	.30	72.70	5792.79	421.50	498.90	653.07	653.12	49.81	.33
5940.98	.50	27.90	5888.79	421.94	499.33	653.69	653.74	49.80	.37
6035.98	.50	41.50	5983.79	422.62	499.80	654.48	654.53	49.78	.12
6130.98	.70	66.40	6078.78	423.16	500.61	655.45	655.50	49.79	.34
6225.98	.70	54.20	6173.77	423.74	501.61	656.59	656.63	49.81	.16
6321.98	.80	56.20	6269.77	424.45	502.64	657.84	657.88	49.82	.11
6416.98	.90	60.30	6364.76	425.19	503.84	659.23	659.28	49.84	.12
Last MWD Survey									
6607.98	1.00	70.80	6555.73	426.48	506.72	662.28	662.31	49.91	.10
TD Extrapolation									
6758.00	1.00	70.80	6705.73	427.34	509.19	664.73	664.75	49.99	.00