



Job Number: 11285-159  
 Company: Wexpro Company  
 Lease/Well: B.W. Musser #38  
 Location: Sec 4, T11N, R97W, 6 PM  
 Rig Name: SST-88  
 RKB: 6,604 Ft (Actual)  
 G.L. or M.S.L.: 6,576 Ft (Surveyed)

State/Country: Moffat County, Colorado  
 Declination:  
 Grid:  
 File name: P:\WEXPRO\11285~1.SVY  
 Date/Time: 09-Jan-12 / 12:31  
 Curve Name: B.W. Musser #38: Final Surveys (MD TD: 9,140 Ft)

**"B.W. Musser #38: Final Surveys (MD TD: 9,140 Ft)"**

WINSERVE SURVEY CALCULATIONS  
 Minimum Curvature Method  
 Vertical Section Plane 282.18  
 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	Direction Deg	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
<b>Tie-In Pt.</b>									
161.00	.10	208.40	161.00	-.12	-.07	.04	.14	208.40	.06
253.00	.10	249.80	253.00	-.22	-.18	.13	.29	219.10	.08
344.00	.20	25.20	344.00	-.11	-.19	.16	.21	240.57	.31
436.00	1.20	265.10	435.99	-.04	-1.08	1.05	1.08	267.74	1.43
527.00	1.90	282.70	526.96	.21	-3.50	3.46	3.51	273.40	.92
617.00	2.80	281.50	616.88	.97	-7.11	7.15	7.18	277.80	1.00
707.00	3.40	283.60	706.75	2.04	-11.86	12.02	12.03	279.76	.68
798.00	4.70	281.50	797.52	3.42	-18.13	18.45	18.45	280.67	1.44
893.00	5.80	280.10	892.12	5.04	-26.67	27.14	27.15	280.69	1.17
988.00	6.80	283.80	986.55	7.22	-36.86	37.56	37.56	281.08	1.14
1083.00	9.00	283.40	1080.64	10.28	-49.55	50.61	50.61	281.72	2.32
1179.00	10.40	275.20	1175.27	12.81	-65.49	66.72	66.73	281.07	2.05
1274.00	11.70	278.10	1268.51	14.94	-83.57	84.84	84.89	280.14	1.49
1370.00	12.60	280.60	1362.36	18.24	-103.49	105.01	105.09	280.00	1.09
1465.00	13.30	280.40	1454.94	22.12	-124.43	126.29	126.38	280.08	.74
<b>9-5/8" Surface Csg</b>									
1545.00	14.62	279.85	1532.58	25.51	-143.42	145.58	145.67	280.08	1.65
1623.00	15.90	279.40	1607.83	28.94	-163.66	166.08	166.20	280.03	1.65
1719.00	15.40	277.10	1700.27	32.66	-189.29	191.91	192.08	279.79	.83
1814.00	15.30	278.30	1791.88	36.03	-214.21	216.98	217.21	279.55	.35
1910.00	16.40	281.10	1884.23	40.47	-240.04	243.17	243.43	279.57	1.40
2005.00	15.10	281.10	1975.66	45.43	-265.34	268.95	269.20	279.72	1.37

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		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
2101.00	15.80	284.60	2068.19	51.13	-290.26	294.52	294.73	279.99	1.21
2196.00	15.70	286.40	2159.63	58.02	-315.11	320.26	320.40	280.43	.52
2292.00	15.90	282.50	2252.00	64.53	-340.41	346.36	346.47	280.73	1.13
2387.00	15.80	282.90	2343.39	70.24	-365.72	372.31	372.40	280.87	.16
2482.00	15.70	281.70	2434.82	75.73	-390.91	398.09	398.18	280.96	.36
2578.00	15.50	279.50	2527.29	80.48	-416.28	423.89	423.99	280.94	.65
2673.00	16.10	281.80	2618.70	85.27	-441.70	449.75	449.85	280.93	.91
2769.00	15.60	282.90	2711.05	90.88	-467.31	475.96	476.06	281.00	.61
2864.00	15.30	284.30	2802.62	96.82	-491.91	501.26	501.34	281.14	.50
2959.00	15.30	284.10	2894.25	102.97	-516.21	526.31	526.38	281.28	.06
3055.00	15.10	285.50	2986.89	109.40	-540.54	551.46	551.50	281.44	.44
3150.00	16.10	283.10	3078.39	115.69	-565.30	576.98	577.01	281.57	1.25
3246.00	16.20	282.50	3170.60	121.61	-591.34	603.68	603.71	281.62	.20
3341.00	15.90	282.90	3261.90	127.38	-616.96	629.95	629.97	281.67	.34
3437.00	15.80	283.20	3354.25	133.30	-642.50	656.16	656.18	281.72	.13
3532.00	15.90	284.50	3445.64	139.51	-667.69	682.10	682.11	281.80	.39
3628.00	15.80	285.00	3537.99	146.19	-693.05	708.29	708.30	281.91	.18
3723.00	15.50	285.30	3629.47	152.89	-717.78	733.88	733.88	282.02	.33
3819.00	15.00	284.80	3722.08	159.44	-742.17	759.10	759.10	282.12	.54
3914.00	15.00	284.60	3813.85	165.68	-765.95	783.66	783.66	282.21	.05
4009.00	14.50	284.10	3905.72	171.68	-789.38	807.83	807.83	282.27	.54
4105.00	14.70	284.10	3998.62	177.58	-812.85	832.02	832.02	282.32	.21
4200.00	14.50	283.10	4090.55	183.21	-836.12	855.96	855.96	282.36	.34
4296.00	14.80	281.30	4183.43	188.33	-859.85	880.23	880.24	282.35	.57
4391.00	15.10	283.40	4275.21	193.58	-883.79	904.74	904.74	282.35	.65
4487.00	14.70	283.80	4367.99	199.38	-907.78	929.41	929.42	282.39	.43
4582.00	14.40	280.20	4459.94	204.35	-931.11	953.27	953.28	282.38	1.00
4677.00	12.10	280.80	4552.41	208.31	-952.52	975.03	975.04	282.34	2.43
4773.00	11.40	283.20	4646.39	212.36	-971.65	994.58	994.58	282.33	.89
4868.00	9.90	282.40	4739.75	216.26	-988.76	1012.13	1012.14	282.34	1.59
4963.00	9.10	285.30	4833.45	219.99	-1003.99	1027.80	1027.81	282.36	.98
5058.00	8.60	287.10	4927.32	224.06	-1018.02	1042.38	1042.39	282.41	.60
5154.00	7.30	288.00	5022.40	228.06	-1030.68	1055.60	1055.61	282.48	1.36
5249.00	6.60	289.60	5116.70	231.76	-1041.57	1067.02	1067.04	282.54	.76
5345.00	5.60	298.40	5212.15	235.84	-1050.88	1076.99	1077.02	282.65	1.42
5440.00	3.50	303.80	5306.85	239.65	-1057.37	1084.13	1084.19	282.77	2.25
5536.00	2.50	313.50	5402.72	242.72	-1061.33	1088.65	1088.73	282.88	1.16
5631.00	1.20	341.40	5497.67	245.09	-1063.15	1090.92	1091.03	282.98	1.63
5726.00	1.20	341.40	5592.65	246.98	-1063.78	1091.94	1092.08	283.07	.00
5917.00	1.40	346.30	5783.60	251.14	-1064.97	1093.98	1094.18	283.27	.12
6108.00	1.60	342.10	5974.53	255.95	-1066.34	1096.34	1096.63	283.50	.12
6298.00	.10	24.80	6164.51	258.62	-1067.09	1097.63	1097.98	283.62	.80
6489.00	.20	199.60	6355.51	258.46	-1067.13	1097.64	1097.98	283.61	.16
6680.00	.40	136.80	6546.50	257.66	-1066.79	1097.13	1097.46	283.58	.19
6871.00	.50	167.90	6737.50	256.36	-1066.16	1096.24	1096.54	283.52	.14

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		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
7349.00	.30	212.70	7215.49	253.27	-1066.39	1095.82	1096.06	283.36	.07
7826.00	.40	307.70	7692.48	253.23	-1068.39	1097.76	1097.99	283.33	.11
Last MWD Survey									
8017.00	.90	313.60	7883.47	254.67	-1070.00	1099.65	1099.89	283.39	.26
9040.00	1.80	246.00	8906.23	253.68	-1090.50	1119.47	1119.62	283.10	.16
Extrapolated to TD (MD TD: 9,140 Ft)									
9140.00	1.80	246.00	9006.18	252.40	-1093.37	1122.01	1122.12	283.00	.00