

30-025-21031
SUR - E-6-18-35 1660/N + 380/W
BHL-1 - F-6-18-35 1972/N + 573/W
BHL-2 - H-1-18-34 2062/N + 547/E



Lateral: 0

Proposed Direction: 104.8

Dog Leg Severity per: 100 feet

Measured Depth	Inclination	Azimuth	True Vertical Depth	North/South Coordinate	East/West Coordinate	Vertical Section	Dog Leg Severity	Survey Tool
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	GYRO
100	0.72	218.14	100.00	-0.49	-0.39	-0.25	0.72	
200	0.63	232.92	199.99	-1.32	-1.21	-0.84	0.20	
300	0.54	236.64	299.99	-1.91	-2.05	-1.49	0.10	
400	0.46	238.14	399.98	-2.38	-2.78	-2.08	0.08	
500	0.14	206.25	499.98	-2.70	-3.18	-2.38	0.35	
600	0.29	107.71	599.98	-2.89	-2.99	-2.15	0.34	
700	0.32	106.34	699.98	-3.04	-2.48	-1.62	0.03	
800	0.28	106.25	799.98	-3.19	-1.98	-1.10	0.04	
900	0.29	96.78	899.98	-3.29	-1.49	-0.60	0.05	
1000	0.18	110.54	999.97	-3.38	-1.09	-0.20	0.12	
1100	0.14	129.42	1099.97	-3.51	-0.85	0.07	0.07	
1200	0.26	173.52	1199.97	-3.81	-0.73	0.27	0.19	
1300	0.34	154.09	1299.97	-4.30	-0.58	0.54	0.13	
1400	0.26	151.81	1399.97	-4.77	-0.34	0.89	0.08	
1500	0.30	139.40	1499.97	-5.17	-0.06	1.26	0.07	
1600	0.46	132.16	1599.97	-5.64	0.41	1.83	0.17	
1700	0.59	119.76	1699.96	-6.16	1.15	2.69	0.17	
1800	0.58	121.74	1799.96	-6.68	2.03	3.67	0.02	
1900	0.63	130.70	1899.95	-7.31	2.87	4.65	0.11	
2000	0.80	109.31	1999.94	-7.90	3.95	5.84	0.31	
2100	0.98	89.00	2099.93	-8.11	5.46	7.36	0.36	
2200	1.22	83.08	2199.91	-7.97	7.38	9.17	0.27	
2300	1.98	60.13	2299.88	-6.98	9.93	11.39	0.98	
2400	2.38	52.22	2399.80	-4.85	13.07	13.88	0.50	
2500	2.39	56.31	2499.72	-2.42	16.45	16.52	0.17	
2600	2.50	57.98	2599.63	-0.11	20.03	19.39	0.13	
2700	2.52	57.57	2699.53	2.23	23.73	22.38	0.03	
2800	2.25	59.94	2799.44	4.39	27.29	25.26	0.29	
2900	2.17	58.44	2899.37	6.36	30.60	27.96	0.10	
3000	1.58	48.41	2999.32	8.27	33.25	30.03	0.67	
3100	1.22	55.59	3099.29	9.79	35.16	31.49	0.40	
3200	0.85	58.81	3199.27	10.77	36.67	32.70	0.37	
3300	0.52	113.66	3299.26	10.97	37.72	33.66	0.70	
3400	0.55	137.36	3399.26	10.44	38.46	34.52	0.22	
3500	0.68	179.91	3499.25	9.49	38.79	35.07	0.46	
3600	0.78	173.86	3599.24	8.22	38.86	35.47	0.13	
3700	0.96	187.15	3699.23	6.71	38.83	35.82	0.27	
3800	0.94	179.85	3799.22	5.06	38.73	36.15	0.12	
3900	0.94	196.62	3899.21	3.46	38.49	36.33	0.27	
4000	0.97	193.49	3999.19	1.85	38.06	36.33	0.06	
4100	0.94	209.35	4099.18	0.31	37.46	36.14	0.27	
4200	1.02	193.44	4199.16	-1.27	36.85	35.95	0.28	
4300	1.02	205.83	4299.15	-2.94	36.26	35.81	0.22	
4400	1.28	208.46	4399.13	-4.72	35.34	35.37	0.27	
4500	1.26	227.03	4499.10	-6.45	34.00	34.52	0.41	
4600	1.91	236.60	4599.07	-8.12	31.81	32.82	0.70	
4700	2.15	248.55	4699.00	-9.72	28.67	30.20	0.49	
4800	2.83	248.80	4798.91	-11.30	24.62	26.69	0.68	
4900	3.16	257.26	4898.77	-12.80	19.63	22.25	0.55	
5000	3.23	256.26	4998.62	-14.08	14.21	17.33	0.09	
5100	3.26	255.43	5098.46	-15.46	8.72	12.38	0.06	



5200	3.38	261.29	5198.29	-16.62	3.05	7.20	0.36	
5300	3.14	261.36	5298.13	-17.48	-2.57	1.98	0.24	
5400	3.13	259.55	5397.98	-18.39	-7.96	-3.00	0.10	
5500	2.64	263.90	5497.85	-19.13	-12.94	-7.62	0.54	
5600	2.19	258.28	5597.76	-19.76	-17.10	-11.48	0.51	
5700	2.27	258.39	5697.69	-20.55	-20.91	-14.97	0.08	
5800	2.05	253.16	5797.61	-21.47	-24.56	-18.26	0.30	
5889	2.47	249.07	5886.55	-22.61	-27.88	-21.18	0.51	GYRO
Lateral: 1 Proposed Direction: 104.8 Dog Leg Severity per: 100 feet								
Measured Depth	Inclination	Azimuth	True Vertical Depth	North/South Coordinate	East/West Coordinate	Vertical Section	Dog Leg Severity	Survey Tool
5868	2.40	250.00	5865.60	-22.30	-27.00	-20.41	0.00	GYRO TIE
5920	20.00	100.80	5916.64	-24.36	-19.19	-12.33	42.49	
5930	24.40	100.50	5925.90	-25.06	-15.48	-8.56	44.01	
5940	28.40	98.70	5934.86	-25.80	-11.10	-4.14	40.79	
5950	32.00	96.60	5943.50	-26.46	-6.11	0.85	37.51	
5960	36.00	95.20	5951.79	-27.03	-0.55	6.37	40.76	
5970	40.20	94.20	5959.65	-27.54	5.60	12.45	42.45	
5980	44.30	93.80	5967.05	-28.00	12.31	19.05	41.09	
5990	48.50	93.80	5973.95	-28.48	19.53	26.16	42.00	
6000	52.80	94.50	5980.29	-29.05	27.24	33.76	43.34	
6015	59.20	96.30	5988.67	-30.22	39.61	46.02	43.81	
6038	66.70	100.80	5999.13	-33.29	59.84	66.36	36.96	MWD
6070	76.70	103.30	6009.16	-39.64	89.51	96.67	32.12	
6102	83.70	103.30	6014.61	-46.89	120.18	128.17	21.88	
6134	86.80	102.90	6017.26	-54.12	151.24	160.04	9.77	
6165	85.30	102.90	6019.39	-61.02	181.38	190.95	4.84	
6197	86.70	105.10	6021.63	-68.75	212.35	222.87	8.13	
6229	85.80	105.80	6023.72	-77.25	243.13	254.80	3.56	
6260	87.60	106.10	6025.50	-85.76	272.88	285.74	5.89	
6292	87.40	105.80	6026.90	-94.54	303.62	317.70	1.13	
6328	89.30	103.70	6027.94	-103.70	338.42	353.68	7.86	
6355	89.80	102.60	6028.15	-109.85	364.71	380.67	4.48	
6387	90.40	102.60	6028.09	-116.83	395.94	412.65	1.88	
6419	89.80	104.30	6028.04	-124.27	427.06	444.63	5.63	MWD
6450	90.80	104.30	6027.87	-131.93	457.10	475.63	3.23	
6482	88.60	103.30	6028.04	-139.56	488.17	507.63	7.55	
6514	86.10	103.70	6029.52	-147.02	519.25	539.58	7.91	
6545	85.90	104.30	6031.68	-154.50	549.26	570.50	2.04	
6577	87.50	103.30	6033.52	-162.12	580.28	602.44	5.89	
6607	88.50	102.60	6034.57	-168.84	609.50	632.41	4.07	
6639	88.20	102.20	6035.49	-175.71	640.74	664.37	1.56	
6671	87.80	101.20	6036.61	-182.19	672.06	696.30	3.36	
6703	88.30	100.50	6037.70	-188.21	703.46	728.20	2.69	
6734	89.30	100.50	6038.35	-193.86	733.94	759.11	3.23	MWD
6766	89.30	100.50	6038.74	-199.69	765.40	791.02	0.00	
6796	87.50	105.10	6039.58	-206.33	794.63	820.98	16.46	
6828	87.80	105.40	6040.89	-214.74	825.48	852.95	1.33	
6859	88.50	106.10	6041.89	-223.15	855.30	883.93	3.19	
6890	89.00	106.10	6042.57	-231.75	885.08	914.91	1.61	
6922	88.20	105.40	6043.35	-240.43	915.87	946.90	3.32	
6954	88.70	105.10	6044.21	-248.85	946.73	978.89	1.82	
6985	89.40	105.40	6044.73	-257.00	976.63	1009.88	2.46	
7017	87.10	105.40	6045.70	-265.49	1007.47	1041.86	7.19	
7049	84.60	106.10	6048.02	-274.15	1038.18	1073.77	8.11	

TEXACO

Denver Region

VGWU #126

Estimate: 695043

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SURVEY REPORT

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7081	84.90	105.80	6050.95	-282.91	1068.82	1105.63	1.32	
7112	87.70	103.70	6052.95	-290.78	1098.73	1136.56	11.28	
7143	87.40	102.60	6054.27	-297.83	1128.89	1167.52	3.67	MWD
7173	89.20	102.30	6055.16	-304.30	1158.17	1197.48	6.08	
7209	91.50	102.30	6054.94	-311.96	1193.34	1233.44	6.39	
Lateral: 2 Proposed Direction: 246.4 Dog Leg Severity per: 100 feet								
Measured Depth	Inclination	Azimuth	True Vertical Depth	North/South Coordinate	East/West Coordinate	Vertical Section	Dog Leg Severity	Survey Tool
5834	2.20	251.40	5831.60	-21.90	-25.80	32.41	0.00	MWD
5920	25.20	247.10	5914.59	-29.66	-44.48	52.63	26.75	
5930	28.80	243.60	5923.50	-31.56	-48.60	57.17	39.34	
5940	32.30	241.10	5932.11	-33.92	-53.10	62.24	37.23	
5950	36.20	239.40	5940.38	-36.71	-57.98	67.83	40.15	
5960	40.40	238.30	5948.22	-39.92	-63.28	73.97	42.55	
5970	44.20	238.60	5955.62	-43.44	-69.02	80.64	38.05	
5980	48.50	239.00	5962.52	-47.19	-75.21	87.81	43.10	
5990	52.10	239.00	5968.91	-51.15	-81.80	95.44	36.00	
6000	55.80	239.00	5974.79	-55.31	-88.73	103.45	37.00	
6034	67.10	238.30	5991.01	-70.84	-114.19	133.00	33.28	
6065	74.10	239.40	6001.31	-85.95	-139.20	161.97	22.83	
6096	80.20	240.40	6008.20	-101.09	-165.34	191.98	19.93	
6128	84.90	244.30	6012.35	-115.81	-193.43	223.62	19.02	
6160	88.10	247.40	6014.30	-128.87	-222.57	255.55	13.91	
6192	89.40	247.10	6015.00	-141.24	-252.07	287.54	4.17	
6224	92.20	247.80	6014.55	-153.51	-281.62	319.52	9.02	
6256	93.60	248.10	6012.93	-165.51	-311.24	351.47	4.47	
6287	91.70	247.80	6011.50	-177.13	-339.94	382.42	6.20	
6319	90.80	248.10	6010.80	-189.14	-369.59	414.40	2.96	
6351	90.90	248.80	6010.33	-200.89	-399.35	446.38	2.21	
6382	88.80	249.60	6010.41	-211.90	-428.33	477.34	7.25	
6414	89.90	250.60	6010.77	-222.79	-458.42	509.27	4.65	
6445	91.90	249.60	6010.28	-233.34	-487.56	540.20	7.21	
6477	92.40	249.60	6009.08	-244.49	-517.53	572.13	1.56	
6509	92.80	250.30	6007.63	-255.45	-547.56	604.03	2.52	
6541	93.00	250.90	6006.01	-266.06	-577.71	635.91	1.97	
6572	92.10	250.30	6004.63	-276.35	-606.92	666.79	3.49	
6603	92.10	250.30	6003.50	-286.79	-636.08	697.70	0.00	
6635	92.90	250.30	6002.10	-297.57	-666.18	729.60	2.50	
6666	92.10	249.20	6000.75	-308.29	-695.24	760.51	4.38	
6698	91.10	248.10	5999.86	-319.94	-725.03	792.47	4.64	
6730	91.40	247.10	5999.16	-332.13	-754.61	824.46	3.26	
6761	90.90	247.40	5998.54	-344.11	-783.19	855.45	1.88	
6792	89.30	247.80	5998.48	-355.92	-811.85	886.44	5.32	
6823	88.70	247.80	5999.02	-367.64	-840.55	917.43	1.94	
6855	88.00	248.10	5999.94	-379.64	-870.19	949.40	2.38	
6877	87.40	248.40	6000.83	-387.79	-890.61	971.37	3.05	
6916	87.40	248.40	6002.60	-402.13	-926.83	1010.31	0.00	MWD