

TEXACO
Denver Region

NVAWU #29
Estimate: 695058

SUR: 8-175.34e 365/s + 1980/E
BAL: E-28-175-34e
2055/N 9818/W

3D-025-34668
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Lateral: 1		Proposed Direction: 0				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	
1	0.00	0.00	0.75	0.00	0.00	0.00	0.00	
252	0.75	0.00	251.99	1.64	0.00	1.64	0.30	
697	0.50	0.00	696.97	6.50	0.00	6.50	0.06	
1196	0.50	0.00	1195.95	10.85	0.00	10.85	0.00	
1600	0.50	0.00	1599.93	14.38	0.00	14.38	0.00	
1990	0.75	0.00	1989.91	18.63	0.00	18.63	0.06	TSS
2461	0.75	0.00	2460.87	24.80	0.00	24.80	0.00	
2931	1.00	0.00	2930.81	31.98	0.00	31.98	0.05	TSS
3430	1.00	0.00	3429.74	40.68	0.00	40.68	0.00	TSS
3900	1.00	0.00	3899.67	48.89	0.00	48.89	0.00	
4373	2.00	0.00	4372.50	61.27	0.00	61.27	0.21	
4435	1.50	0.00	4434.47	63.16	0.00	63.16	0.81	TSS
4597	1.25	0.00	4596.42	67.05	0.00	67.05	0.15	TSS
4967	2.00	0.00	4966.27	77.54	0.00	77.54	0.20	TSS
5101	1.50	0.00	5100.21	81.63	0.00	81.63	0.37	
5312	1.50	0.00	5311.13	87.16	0.00	87.16	0.00	TSS
5590	1.50	0.00	5589.04	94.43	0.00	94.43	0.00	TSS
5969	1.75	0.00	5967.89	105.18	0.00	105.18	0.07	
6217	2.00	0.00	6215.75	113.30	0.00	113.30	0.10	
6377	2.00	0.00	6375.66	118.88	0.00	118.88	0.00	
6625	2.25	0.00	6623.49	128.08	0.00	128.08	0.10	
6690	1.75	0.00	6688.45	130.34	0.00	130.34	0.77	
6782	2.00	0.00	6780.40	133.35	0.00	133.35	0.27	
6876	1.75	0.00	6874.35	136.43	0.00	136.43	0.27	
7003	1.75	0.00	7001.29	140.31	0.00	140.31	0.00	
7127	2.00	0.00	7125.22	144.37	0.00	144.37	0.20	
7254	1.75	0.00	7252.15	148.52	0.00	148.52	0.20	
7379	2.00	0.00	7377.08	152.61	0.00	152.61	0.20	
7473	1.75	0.00	7471.03	155.69	0.00	155.69	0.27	
7598	2.50	0.00	7595.95	160.32	0.00	160.32	0.60	
7692	2.00	0.00	7689.87	164.01	0.00	164.01	0.53	
7785	2.00	0.00	7782.82	167.26	0.00	167.26	0.00	
7864	1.75	0.00	7861.78	169.84	0.00	169.84	0.32	
7945	1.50	0.00	7942.74	172.14	0.00	172.14	0.31	
8102	1.25	0.00	8099.70	175.91	0.00	175.91	0.16	
8386	1.25	0.00	8383.63	182.10	0.00	182.10	0.00	
8775	1.00	0.00	8772.55	189.74	0.00	189.74	0.06	TSS
8983	0.75	0.00	8980.53	192.92	0.00	192.92	0.12	TSS
Lateral: 2		Proposed Direction: 226				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	0.21	270.50	100.00	0.00	-0.18	0.13	0.21	
200	0.38	288.07	200.00	0.11	-0.68	0.42	0.19	
300	0.45	278.58	300.00	0.27	-1.39	0.81	0.10	
400	0.25	281.31	399.99	0.37	-1.99	1.17	0.20	
500	0.15	293.16	499.99	0.46	-2.32	1.35	0.11	
600	0.28	312.58	599.99	0.68	-2.62	1.41	0.15	
700	0.36	294.64	699.99	0.98	-3.09	1.54	0.13	
800	0.36	275.94	799.99	1.14	-3.69	1.86	0.12	
900	0.38	302.35	899.99	1.35	-4.28	2.14	0.17	

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1000	0.56	307.18	999.98	1.82	-4.95	2.29	0.18
1100	0.66	302.17	1099.98	2.42	-5.82	2.51	0.11
1200	0.67	297.40	1199.97	3.00	-6.83	2.83	0.06
1300	0.51	293.02	1299.97	3.44	-7.76	3.19	0.17
1400	0.44	305.35	1399.96	3.84	-8.48	3.43	0.12
1500	0.62	306.59	1499.96	4.38	-9.23	3.59	0.18
1600	0.56	303.11	1599.95	4.97	-10.07	3.79	0.07
1700	0.56	308.16	1699.95	5.54	-10.87	3.97	0.05
1800	0.54	315.15	1799.94	6.18	-11.58	4.04	0.07
1900	0.47	312.73	1899.94	6.79	-12.22	4.07	0.07
2000	0.43	316.93	1999.94	7.34	-12.78	4.09	0.05
2100	0.43	315.80	2099.93	7.89	-13.29	4.08	0.01
2200	0.41	314.33	2199.93	8.41	-13.81	4.10	0.02
2300	0.42	312.43	2299.93	8.90	-14.34	4.13	0.02
2400	0.50	311.26	2399.93	9.44	-14.94	4.19	0.08
2500	0.56	302.96	2499.92	9.99	-15.67	4.33	0.10
2600	0.53	308.89	2599.92	10.55	-16.44	4.50	0.06
2700	0.60	319.16	2699.91	11.23	-17.15	4.53	0.12
2800	0.61	330.23	2799.91	12.09	-17.75	4.37	0.12
2900	0.65	343.87	2899.90	13.10	-18.17	3.97	0.15
3000	0.65	357.14	2999.89	14.21	-18.36	3.34	0.15
3100	0.76	0.40	3099.89	15.44	-18.38	2.50	0.12
3200	0.78	12.31	3199.88	16.77	-18.23	1.47	0.16
3300	0.91	21.64	3299.87	18.17	-17.80	0.18	0.19
3400	0.98	23.11	3399.85	19.70	-17.17	-1.33	0.07
3500	1.01	25.85	3499.84	21.28	-16.45	-2.95	0.06
3600	1.12	21.32	3599.82	22.98	-15.71	-4.66	0.14
3700	1.18	24.88	3699.80	24.82	-14.92	-6.51	0.09
3800	1.16	30.63	3799.78	26.63	-13.97	-8.45	0.12
3900	1.33	37.16	3899.76	28.43	-12.75	-10.57	0.22
4000	1.33	39.20	3999.73	30.25	-11.32	-12.87	0.05
4100	1.33	45.11	4099.70	31.97	-9.76	-15.18	0.14
4200	1.37	50.53	4199.67	33.55	-8.02	-17.54	0.13
4300	1.46	51.41	4299.64	35.10	-6.10	-20.00	0.09
4400	1.54	54.58	4399.61	36.67	-4.01	-22.59	0.12
4500	1.70	55.78	4499.57	38.29	-1.69	-25.38	0.16
4600	1.70	52.01	4599.53	40.03	0.71	-28.32	0.11
4700	1.74	49.84	4699.48	41.93	3.04	-31.31	0.08
4800	1.83	48.44	4799.43	43.97	5.39	-34.42	0.10
4900	1.86	51.92	4899.38	46.03	7.86	-37.63	0.12
5000	1.69	52.88	4999.33	47.92	10.32	-40.71	0.17
5100	1.56	52.68	5099.29	49.63	12.58	-43.52	0.13
5200	1.46	65.57	5199.26	50.98	14.82	-46.08	0.35
5300	1.50	68.95	5299.22	51.98	17.20	-48.48	0.10
5400	1.75	69.29	5399.18	52.99	19.85	-51.09	0.25
5500	1.81	76.53	5499.14	53.90	22.81	-53.85	0.23
5600	1.68	72.32	5599.09	54.71	25.75	-56.53	0.18
5700	1.78	73.70	5699.04	55.59	28.63	-59.21	0.11
5800	1.73	79.59	5799.00	56.30	31.61	-61.85	0.19
5900	1.67	76.41	5898.95	56.92	34.51	-64.36	0.11
6000	1.81	74.38	5998.91	57.68	37.45	-67.01	0.15
6100	1.82	77.17	6098.86	58.46	40.52	-69.76	0.09
6200	1.70	72.03	6198.81	59.27	43.48	-72.45	0.20
6300	1.74	65.27	6298.76	60.37	46.27	-75.21	0.21
6400	1.91	65.49	6398.71	61.69	49.16	-78.22	0.17

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6500	1.83	66.10	6498.66	63.03	52.14	-81.29	0.08	
6600	1.73	62.15	6598.61	64.38	54.93	-84.24	0.16	
6700	1.71	60.28	6698.57	65.83	57.56	-87.13	0.06	
6800	1.78	63.10	6798.52	67.27	60.24	-90.06	0.11	
6900	1.71	66.53	6898.47	68.57	63.00	-92.95	0.13	
7000	1.67	66.16	6998.43	69.75	65.70	-95.71	0.04	
7100	1.74	59.65	7098.39	71.11	68.34	-98.55	0.21	
7200	1.85	64.31	7198.34	72.57	71.10	-101.56	0.18	
7300	1.82	65.08	7298.29	73.94	74.00	-104.59	0.04	
7400	1.68	63.61	7398.24	75.26	76.75	-107.49	0.15	
7500	1.70	59.39	7498.20	76.67	79.34	-110.33	0.13	
7600	1.87	60.76	7598.15	78.22	82.04	-113.35	0.18	
7700	1.63	62.87	7698.10	79.67	84.73	-116.29	0.25	
7800	1.57	60.21	7798.06	81.00	87.19	-118.98	0.10	
7900	1.65	59.56	7898.02	82.41	89.62	-121.71	0.08	
8000	1.57	67.06	7997.98	83.67	92.12	-124.39	0.23	
8100	1.36	62.52	8097.95	84.75	94.43	-126.80	0.24	
8200	1.56	60.36	8197.92	85.97	96.67	-129.26	0.21	
8300	1.42	69.30	8297.88	87.08	99.01	-131.72	0.27	
8400	1.26	67.17	8397.86	87.95	101.18	-133.88	0.17	
8500	1.15	65.12	8497.83	88.80	103.11	-135.85	0.12	
8600	1.09	66.14	8597.82	89.60	104.89	-137.69	0.06	
8675	1.08	54.55	8672.80	90.30	106.12	-139.06	0.29	
8724	3.50	225.00	8721.78	89.51	105.44	-138.02	9.32	
8729	5.30	226.00	8726.76	89.24	105.16	-137.64	36.03	
8739	8.80	230.80	8736.69	88.44	104.24	-136.41	35.46	
8747	11.60	230.50	8744.56	87.54	103.14	-135.00	35.01	MWD
8767	18.60	230.20	8763.86	84.21	99.13	-129.81	35.00	
8777	22.50	228.40	8773.22	81.92	96.48	-126.31	39.50	
8787	26.60	228.90	8782.31	79.18	93.36	-122.16	41.05	
8801	32.00	229.30	8794.52	74.70	88.18	-115.32	38.60	
8817	38.90	227.90	8807.54	68.56	81.23	-106.05	43.42	
8833	45.00	226.70	8819.44	61.30	73.38	-95.37	38.45	
8847	51.70	226.10	8828.74	54.09	65.81	-84.91	47.96	
8862	58.40	226.30	8837.32	45.59	56.94	-72.62	44.68	
8879	65.80	226.80	8845.27	35.26	46.04	-57.61	43.61	
8894	72.30	226.80	8850.63	25.68	35.83	-43.61	43.33	MWD
8917	81.10	227.20	8855.92	10.43	19.48	-21.25	38.30	
8927	83.40	227.50	8857.27	3.72	12.19	-11.35	23.19	
8958	84.30	227.50	8860.59	-17.11	-10.53	19.46	2.90	
8990	86.00	227.50	8863.30	-38.65	-34.04	51.33	5.31	
9022	89.40	227.00	8864.58	-60.35	-57.52	83.30	10.74	
9054	89.40	227.50	8864.91	-82.07	-81.02	115.29	1.56	MWD
9086	89.00	227.50	8865.36	-103.69	-104.61	147.27	1.25	
9117	87.80	227.50	8866.23	-124.62	-127.45	178.25	3.87	
9148	87.30	228.10	8867.55	-145.42	-150.40	209.21	2.52	MWD
9179	89.40	227.90	8868.44	-166.16	-173.42	240.17	6.80	
9210	90.10	227.90	8868.58	-186.94	-196.42	271.15	2.26	
9241	91.70	227.50	8868.09	-207.80	-219.35	302.14	5.32	MWD
9274	91.70	227.50	8867.11	-230.09	-243.67	335.11	0.00	
9305	91.10	227.70	8866.36	-250.98	-266.55	366.09	2.04	
9337	90.10	227.70	8866.02	-272.52	-290.22	398.07	3.13	
9369	90.10	226.50	8865.97	-294.30	-313.66	430.07	3.75	
9400	92.20	224.70	8865.34	-315.98	-335.80	461.06	8.92	
9432	92.90	223.50	8863.92	-338.94	-358.05	493.01	4.34	MWD



9463	91.00	223.50	8862.86	-361.41	-379.37	523.96	6.13	
9495	89.40	223.30	8862.75	-384.66	-401.36	555.92	5.04	
9527	89.60	223.30	8863.03	-407.95	-423.31	587.89	0.63	
9558	90.60	223.00	8862.98	-430.57	-444.51	618.85	3.37	
9590	91.80	223.50	8862.31	-453.87	-466.43	650.80	4.06	
9622	90.30	224.00	8861.72	-476.98	-488.55	682.77	4.94	MWD
9654	88.50	224.60	8862.06	-499.88	-510.90	714.75	5.93	MWD
9686	88.90	225.30	8862.78	-522.52	-533.50	746.74	2.52	
9717	88.30	226.80	8863.54	-544.03	-555.81	777.73	5.21	
9749	88.20	227.70	8864.52	-565.74	-579.30	809.71	2.83	
9781	91.00	227.90	8864.74	-587.23	-603.00	841.69	8.77	
9812	94.10	227.40	8863.36	-608.09	-625.89	872.64	10.13	
9844	95.40	227.90	8860.71	-629.57	-649.45	904.52	4.35	
9876	94.80	226.30	8857.87	-651.27	-672.80	936.38	5.32	MWD
9908	93.60	226.10	8855.52	-673.36	-695.84	968.30	3.80	
9939	94.50	226.30	8853.33	-694.76	-718.15	999.22	2.97	
9971	91.70	226.10	8851.60	-716.88	-741.21	1031.17	8.77	MWD
10003	90.40	225.90	8851.02	-739.10	-764.23	1063.16	4.11	
10035	92.00	226.30	8850.35	-761.28	-787.28	1095.15	5.15	
10066	92.70	226.70	8849.08	-782.60	-809.75	1126.13	2.60	
10097	93.60	227.40	8847.37	-803.69	-832.40	1157.07	3.68	
10129	93.80	227.70	8845.31	-825.25	-855.97	1189.00	1.13	MWD
10161	94.70	228.10	8842.94	-846.64	-879.64	1220.89	3.08	
10193	93.60	228.90	8840.62	-867.79	-903.55	1252.77	4.25	MWD
10225	92.40	229.60	8838.95	-888.65	-927.75	1284.68	4.34	
10256	92.00	230.00	8837.76	-908.64	-951.41	1315.59	1.82	
10287	93.30	230.00	8836.32	-928.55	-975.14	1346.48	4.19	
10318	91.10	229.30	8835.13	-948.60	-998.74	1377.39	7.45	
10350	91.10	227.20	8834.52	-969.91	-1022.61	1409.36	6.56	
10382	91.30	226.70	8833.85	-991.75	-1045.99	1441.35	1.68	MWD
10414	91.50	224.60	8833.07	-1014.11	-1068.86	1473.33	6.59	
10445	90.80	224.00	8832.44	-1036.29	-1090.51	1504.31	2.97	
10477	91.50	224.40	8831.80	-1059.22	-1112.82	1536.29	2.52	MWD
10508	92.60	224.40	8830.69	-1081.36	-1134.49	1567.26	3.55	
10539	92.70	223.50	8829.26	-1103.65	-1155.98	1598.21	2.92	
10569	93.40	224.00	8827.66	-1125.29	-1176.70	1628.14	2.87	
10601	94.50	224.20	8825.46	-1148.22	-1198.91	1660.05	3.49	
10633	94.70	224.70	8822.89	-1170.99	-1221.25	1691.93	1.68	
10664	93.60	224.90	8820.65	-1192.93	-1243.04	1722.84	3.61	
10696	92.00	225.10	8819.09	-1215.53	-1265.64	1754.80	5.04	
10728	91.00	224.40	8818.25	-1238.24	-1288.16	1786.78	3.81	
10759	89.60	224.70	8818.09	-1260.33	-1309.90	1817.77	4.62	
10791	88.50	225.30	8818.62	-1282.96	-1332.53	1849.76	3.92	
10822	87.10	224.40	8819.81	-1304.92	-1354.37	1880.73	5.37	
10854	85.50	223.80	8821.87	-1327.85	-1376.60	1912.64	5.34	
10886	83.60	224.60	8824.91	-1350.69	-1398.80	1944.48	6.44	
10918	84.10	224.60	8828.34	-1373.34	-1421.14	1976.29	1.56	
10950	84.30	224.90	8831.57	-1395.95	-1443.56	2008.12	1.12	
10981	84.10	224.60	8834.70	-1417.85	-1465.27	2038.95	1.16	
11013	84.60	225.10	8837.86	-1440.43	-1487.73	2070.79	2.20	
11045	85.70	224.70	8840.56	-1463.01	-1510.23	2102.67	3.66	
11076	86.40	224.20	8842.70	-1485.09	-1531.89	2133.58	2.77	
11108	85.70	224.70	8844.90	-1507.88	-1554.25	2165.49	2.69	
11140	82.90	224.90	8848.08	-1530.47	-1576.68	2197.32	8.77	
11171	83.10	225.40	8851.86	-1552.17	-1598.49	2228.09	1.73	



11203	83.90	225.80	8855.48	-1574.42	-1621.21	2259.88	2.79
11234	85.00	225.90	8858.48	-1595.91	-1643.35	2290.74	3.56
11266	85.70	226.10	8861.07	-1618.06	-1666.29	2322.63	2.27
11298	87.10	225.80	8863.08	-1640.27	-1689.24	2354.57	4.47
11329	87.80	225.60	8864.46	-1661.90	-1711.41	2385.54	2.35
11362	86.40	225.60	8866.13	-1684.96	-1734.96	2418.49	4.24
11393	87.40	225.80	8867.81	-1706.58	-1757.11	2449.45	3.29
11425	88.00	225.90	8869.09	-1728.85	-1780.05	2481.42	1.90
11457	89.00	225.90	8869.93	-1751.11	-1803.02	2513.41	3.13
11488	91.10	226.10	8869.90	-1772.64	-1825.32	2544.41	6.80
11520	92.70	226.70	8868.84	-1794.70	-1848.48	2576.39	5.34
11551	93.10	226.50	8867.27	-1815.97	-1870.98	2607.35	1.44
11582	93.40	225.30	8865.51	-1837.51	-1893.20	2638.30	3.98
11614	94.80	225.80	8863.23	-1859.86	-1915.99	2670.21	4.64
11645	95.20	225.60	8860.52	-1881.43	-1938.09	2701.09	1.44
11677	94.30	224.40	8857.87	-1903.98	-1960.64	2732.98	4.68
11708	94.30	224.20	8855.55	-1926.10	-1982.23	2763.88	0.64
11740	94.00	224.40	8853.23	-1948.94	-2004.52	2795.78	1.13
11772	95.00	225.60	8850.72	-1971.50	-2027.08	2827.67	4.87
11804	95.00	226.80	8847.93	-1993.56	-2050.08	2859.55	3.74
11836	94.70	226.80	8845.23	-2015.39	-2073.33	2891.43	0.94
11868	94.70	226.80	8842.61	-2037.22	-2096.58	2923.32	0.00
11899	93.70	226.80	8840.34	-2058.39	-2119.11	2954.24	3.23
11931	91.50	226.80	8838.88	-2080.27	-2142.41	2986.20	6.88
11962	87.40	225.90	8839.18	-2101.66	-2164.84	3017.19	13.54
11995	88.30	226.80	8840.42	-2124.42	-2188.70	3050.16	3.86
12027	91.70	227.20	8840.42	-2146.24	-2212.10	3082.16	10.70
12058	92.40	227.00	8839.31	-2167.33	-2234.79	3113.13	2.35
12089	92.00	226.70	8838.12	-2188.52	-2257.39	3144.10	1.61
12121	91.30	226.70	8837.20	-2210.45	-2280.67	3176.09	2.19
12153	89.70	225.60	8836.92	-2232.62	-2303.75	3208.08	6.07
12191	89.40	225.10	8837.22	-2259.32	-2330.78	3246.08	1.53
12216	90.60	224.40	8837.22	-2277.08	-2348.38	3271.07	5.56
12248	88.90	222.60	8837.36	-2300.29	-2370.40	3303.04	7.74
12279	90.40	222.80	8837.55	-2323.07	-2391.43	3333.99	4.88
12310	90.40	223.10	8837.33	-2345.76	-2412.55	3364.94	0.97
12342	90.10	223.30	8837.19	-2369.09	-2434.45	3396.90	1.13
12374	89.90	223.00	8837.19	-2392.43	-2456.34	3428.86	1.13
12412	90.00	223.00	8837.22	-2420.22	-2482.25	3466.81	0.26