

TEXACO

VGSAU #24

Denver Region Estimate: 695047

Sur: 15 # 660/E Unit I
BHL: 1976/5 # 1772/E Unit J
30-025-02271 2-185-34e

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SURVEY REPORT

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Lateral: 0

Proposed Direction: 270

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	
102	0.36	232.57	101.50	-0.19	-0.25	0.25	0.35	
201	0.09	269.80	201.00	-0.38	-0.58	0.58	0.29	
300	0.30	199.55	300.30	-0.63	-0.74	0.74	0.28	
401	0.38	200.16	400.80	-1.19	-0.95	0.95	0.08	
501	0.23	188.58	501.19	-1.70	-1.09	1.09	0.16	
601	0.47	194.78	600.89	-2.30	-1.23	1.23	0.24	
701	0.44	161.73	701.39	-3.06	-1.21	1.21	0.26	
801	0.46	105.45	801.19	-3.53	-0.70	0.70	0.43	
900	0.43	90.38	899.98	-3.64	0.05	-0.05	0.12	
1001	0.60	82.36	1000.48	-3.57	0.95	-0.95	0.18	GYRO
1101	0.61	68.43	1101.17	-3.30	1.97	-1.97	0.15	
1201	0.65	70.23	1200.57	-2.92	2.99	-2.99	0.04	
1301	0.59	73.05	1300.66	-2.58	4.02	-4.02	0.07	
1401	0.71	59.86	1400.76	-2.12	5.05	-5.05	0.19	
1502	0.88	36.87	1501.45	-1.18	6.05	-6.05	0.36	
1600	1.21	15.69	1600.13	0.43	6.79	-6.79	0.51	
1701	1.22	14.26	1700.41	2.48	7.34	-7.34	0.03	
1801	0.94	21.81	1800.79	4.28	7.91	-7.91	0.31	
1900	1.09	24.24	1899.87	5.90	8.60	-8.60	0.16	
2000	0.82	31.98	2000.06	7.37	9.37	-9.37	0.30	GYRO
2101	0.69	21.64	2100.55	8.55	9.97	-9.97	0.19	
2201	0.44	39.29	2201.05	9.41	10.44	-10.44	0.30	
2300	0.41	61.95	2300.24	9.87	10.99	-10.99	0.17	
2401	0.63	75.57	2400.64	10.17	11.84	-11.84	0.25	
2501	0.63	81.78	2500.73	10.39	12.92	-12.92	0.07	
2601	0.82	80.59	2600.83	10.59	14.17	-14.17	0.19	
2701	0.96	80.09	2701.11	10.85	15.71	-15.71	0.14	
2801	0.88	77.40	2800.50	11.16	17.27	-17.27	0.09	
2901	0.93	78.04	2900.59	11.49	18.82	-18.82	0.05	
3001	0.58	76.97	3000.68	11.78	20.11	-20.11	0.35	GYRO
3100	0.32	86.46	3100.08	11.91	20.87	-20.87	0.27	
3201	0.33	100.15	3200.68	11.87	21.44	-21.44	0.08	
3301	0.35	91.23	3300.57	11.82	22.03	-22.03	0.06	
3401	0.33	92.77	3400.67	11.80	22.62	-22.62	0.02	
3501	0.63	72.23	3500.27	11.95	23.43	-23.43	0.34	
3600	0.75	53.62	3599.76	12.50	24.47	-24.47	0.25	
3701	0.80	50.84	3700.45	13.34	25.55	-25.55	0.06	
3801	0.86	45.98	3800.44	14.30	26.63	-26.63	0.09	
3901	0.89	38.95	3900.33	15.42	27.66	-27.66	0.11	
4000	0.94	30.74	3999.92	16.73	28.56	-28.56	0.14	GYRO
4101	0.88	31.30	4100.60	18.10	29.39	-29.39	0.06	
4201	1.17	22.07	4200.19	19.69	30.17	-30.17	0.33	
4220	1.32	36.29	4219.68	20.06	30.37	-30.37	1.76	GYRO
4270	20.80	275.50	4268.62	21.39	21.78	-21.78	43.01	
4280	25.30	275.10	4277.82	21.75	17.88	-17.88	45.03	GYRO
4290	29.50	275.10	4286.70	22.16	13.30	-13.30	42.00	MWD
4310	38.40	274.10	4303.27	23.04	2.17	-2.17	44.59	
4330	45.90	273.40	4318.09	23.91	-11.21	11.21	37.57	
4342	48.40	272.70	4326.25	24.38	-19.99	19.99	21.27	MWD
4373	53.70	272.30	4345.73	25.43	-44.07	44.07	17.13	
4404	54.10	274.80	4364.00	26.98	-69.07	69.07	6.64	

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4436	54.30	273.00	4382.72	28.75	-94.96	94.96	4.60
4468	54.70	272.70	4401.30	30.04	-120.98	120.98	1.46
4499	55.00	269.50	4419.15	30.53	-146.32	146.32	8.50MWD
4532	55.00	268.50	4438.08	30.06	-173.34	173.34	2.48
4562	54.70	265.60	4455.35	28.79	-197.84	197.84	7.97
4594	54.80	264.60	4473.82	26.56	-223.87	223.87	2.57
4625	54.90	264.20	4491.67	24.09	-249.10	249.10	1.10
4656	55.00	265.30	4509.47	21.77	-274.37	274.37	2.92
4688	54.90	267.80	4527.85	20.19	-300.52	300.52	6.40
4720	54.60	268.50	4546.32	19.35	-326.63	326.63	2.02
4751	54.30	268.80	4564.35	18.75	-351.85	351.85	1.25
4782	58.30	268.50	4581.54	18.14	-377.63	377.63	12.93
4815	63.50	267.80	4597.59	17.21	-406.44	406.44	15.87
4847	69.50	267.40	4610.34	15.98	-435.74	435.74	18.79MWD
4878	75.70	267.80	4619.61	14.74	-465.28	465.28	20.04
4909	80.30	268.50	4626.05	13.76	-495.58	495.58	15.00MWD
4941	84.10	267.80	4630.39	12.74	-527.26	527.26	12.07
4972	87.00	268.10	4632.80	11.63	-558.15	558.15	9.40
5004	87.80	268.10	4634.25	10.57	-590.10	590.10	2.50
5035	88.30	268.50	4635.30	9.66	-621.07	621.07	2.07
5067	88.30	268.50	4636.25	8.82	-653.04	653.04	0.00
5099	88.90	268.80	4637.03	8.06	-685.02	685.02	2.10MWD
5131	93.70	268.80	4636.31	7.39	-717.00	717.00	15.00
5162	99.80	269.50	4632.67	6.94	-747.76	747.76	19.80
5194	105.30	270.90	4625.72	7.04	-778.99	778.99	17.71
5225	111.50	270.90	4615.93	7.50	-808.38	808.38	20.00
5257	115.60	269.50	4603.15	7.61	-837.71	837.71	13.43
5288	115.60	270.60	4589.76	7.64	-865.67	865.67	3.20
5320	115.10	270.90	4576.06	8.01	-894.58	894.58	1.78
5352	117.30	269.20	4561.93	8.04	-923.29	923.29	8.37
5383	118.10	269.20	4547.52	7.66	-950.74	950.74	2.58
5415	120.00	267.40	4531.98	6.83	-978.70	978.70	7.71MWD
5446	121.00	267.40	4516.25	5.62	-1005.38	1005.38	3.23
5477	120.00	265.00	4500.51	3.85	-1032.03	1032.03	7.41
5508	120.70	264.40	4484.85	1.38	-1058.66	1058.66	2.81
5531	121.20	264.40	4473.02	-0.55	-1078.29	1078.29	2.17
5570	121.00	264.40	4452.87	-3.80	-1111.53	1111.53	0.51MWD