

Schlumberger

Survey

Client: Cross Timbers Operation Company Field: San Juan County, NM Structure: Ute Mountain Tribal J #6 Well: Ute Mountain Tribal J #6 Borehole: Ute Mountain Tribal J #6 UWI/API#: 30-045-29867 Date: July 01, 1999 Grid Convergence: -0.26044733° Scale Factor: 0.99993504 Location: N 36 55 26.064, W 108 16 0.704 : N 2155855.300 ftUS, E 373276.600 ftUS Coordinate System: NAD27 New Mexico State Planes, Western Zone, US Feet	Survey Computation Method: Minimum Curvature DLS Computation Method: Lubinski Vertical Section Azimuth: 0.000° Vertical Section Origin: N 0.000 ft, E 0.000 ft TVD Reference: 6010.0 ft above Magnetic Declination: 11.567° Total Field Strength: 51878.849 nT Dip: 63.842° Declination Date: July 01, 1999 Magnetic Declination Model: BGM 1999 North Reference: Grid North Coordinate Reference To: Structure Reference Point
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Station ID	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSec (ft)	N/S (ft)	E/W (ft)	Closure (ft)	at Azim (°)	DLS (%/100ft)	TF (°)
Tie-In	323.00	1.10	32.30	322.98	2.62	2.62	1.66	0.95	32.30		39.1 M
	504.00	1.52	39.11	503.93	5.95	5.95	4.10	2.20	39.11	0.25	13.8 M
	688.00	3.01	13.79	687.79	12.54	12.54	6.79	4.35	13.79	0.96	6.0 M
	875.00	5.92	5.96	874.20	26.90	26.90	8.97	8.64	5.96	1.59	-68.8 G
	1061.00	6.04	3.19	1059.19	46.21	46.21	10.51	14.44	3.19	0.17	-105.4 G
	1249.00	6.01	2.11	1246.15	65.92	65.92	11.42	20.39	2.11	0.06	112.6 G
	1381.00	5.89	5.11	1377.44	79.57	79.57	12.28	24.54	5.11	0.25	22.2 G
	1445.00	6.49	7.26	1441.07	86.43	86.43	13.03	26.64	7.26	1.00	135.8 G
	1507.00	6.40	8.05	1502.68	93.33	93.33	13.95	28.76	8.05	0.20	34.3 G
	1539.00	6.62	9.34	1534.47	96.92	96.92	14.50	29.87	9.34	0.83	4.5 G
	1570.00	6.80	9.46	1565.26	100.49	100.49	15.09	30.97	9.46	0.58	148.8 G

1601.00	5.98	14.35	1596.06	103.86	103.86	15.80	32.02	14.35	3.17	-154.1 C
1633.00	5.00	8.75	1627.92	106.86	106.86	16.42	32.95	8.75	3.49	-169.2 C
1664.00	4.70	8.05	1658.81	109.45	109.45	16.80	33.75	8.05	0.99	17.8 M
1695.00	3.75	17.81	1689.72	111.67	111.67	17.29	34.44	17.81	3.83	29.8 M
1726.00	3.20	29.85	1720.67	113.39	113.39	18.03	35.00	29.85	2.94	35.5 M
1758.00	2.60	35.48	1752.62	114.75	114.75	18.90	35.45	35.48	2.07	20.0 M
1789.00	1.66	19.97	1783.60	115.75	115.75	19.46	35.78	19.97	3.53	10.2 M
1820.00	1.58	10.19	1814.59	116.59	116.59	19.69	36.04	10.19	0.93	2.5 M
1850.00	1.25	2.47	1844.58	117.33	117.33	19.78	36.27	2.47	1.27	15.8 M
1881.00	0.78	15.83	1875.58	117.87	117.87	19.85	36.43	15.83	1.69	81.2 M
1912.00	0.30	81.18	1906.57	118.08	118.08	19.99	36.50	81.18	2.29	155.3 M
1943.00	1.22	155.32	1937.57	117.79	117.79	20.20	36.43	155.32	3.79	152.9 M
1974.00	1.45	152.86	1968.56	117.14	117.14	20.52	36.25	152.86	0.76	152.9 M
2006.00	1.10	152.90	2000.56	116.51	116.51	20.85	36.08	152.90	1.09	156.4 M
2037.00	0.60	156.41	2031.55	116.10	116.10	21.05	35.96	156.41	1.62	-177.3 M
2069.00	1.37	182.70	2063.55	115.56	115.56	21.10	35.81	182.70	2.73	-171.8 M
2100.00	2.27	188.24	2094.53	114.58	114.58	20.99	35.51	188.24	2.95	-170.2 M
2130.00	2.47	189.79	2124.51	113.36	113.36	20.79	35.13	189.79	0.70	-171.7 M
2161.00	2.18	188.27	2155.48	112.12	112.12	20.60	34.75	188.27	0.96	-165.1 M
2192.00	1.84	194.87	2186.46	111.05	111.05	20.38	34.41	194.87	1.33	-159.8 M
2255.00	3.66	200.22	2249.39	108.19	108.19	19.43	33.50	200.22	2.91	-161.4 M
2285.00	4.30	198.60	2279.31	106.22	106.22	18.74	32.88	198.60	2.17	-162.8 M
2316.00	4.40	197.19	2310.22	103.99	103.99	18.02	32.17	197.19	0.47	-162.1 M
2346.00	4.30	197.90	2340.14	101.82	101.82	17.33	31.48	197.90	0.38	-167.5 M
2410.00	4.02	192.48	2403.97	97.34	97.34	16.11	30.07	192.48	0.75	-171.2 M
2472.00	3.60	188.76	2465.83	93.30	93.30	15.34	28.82	188.76	0.79	-169.8 M
2534.00	3.59	190.24	2527.71	89.46	89.46	14.70	27.63	190.24	0.15	-168.3 M
2596.00	3.67	191.66	2589.59	85.61	85.61	13.96	26.44	191.66	0.19	-166.4 M
2659.00	4.19	193.55	2652.44	81.40	81.40	13.01	25.12	193.55	0.85	-164.9 M
2712.00	4.32	195.05	2705.29	77.59	77.59	12.04	23.93	195.05	0.32	-164.9 M
2750.00	4.32	195.05	2743.18	74.82	74.82	11.29	23.06	195.05	0.00	---

Projection to T.D.