

Schlumberger**Anadrill**

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Anadrill Schlumberger Survey Report

Marathon Oil Company
Freedman 22 State #1
Lot N, Section 22, Township 18 S, Range 28 E
Eddy County, New Mexico

Anadrill Schlumberger Survey Report 1/1/99 6:13:00 PM

Magnetic Declination: >.3 DEG

Tie In Point (TIP):
Measured Depth 7271 FT.
True Vertical Depth 7270.62 FT.
Inclination .5 DEG
Azimuth 114 DEG
N/S Displacement(-ve for S) -4.49 FT.
E/W Displacement(-ve for W) -44.34 FT.
Azim. From Rotary Table To Target 158.27 DEG

Accepted Survey Listing:

M.Depth (ft)	Int. (ft)	TVD (ft)	TargetS (ft)	Incl. (deg)	Azim (deg)	N.Disp (ft)	E.Disp (ft)	T.Disp (ft)	Clr.Ang (deg)	DLS (D/HF)
7407	136	7406.61	-10.83	0.85	169.02	-5.72	-43.61	43.98	262.52	0.51
7418	11	7417.61	-10.67	0.84	164.44	-5.88	-43.57	43.97	262.32	0.62
7515	97	7514.59	-8.68	1.52	157.06	-7.75	-42.88	43.57	259.75	0.72
7546	31	7545.58	-7.78	1.79	155.27	-8.57	-42.52	43.37	258.61	0.89
7577	31	7576.56	-6.64	2.45	153.03	-9.6	-42.02	43.1	257.13	2.15
7608	31	7607.53	-5.24	2.73	153.85	-10.85	-41.39	42.79	255.31	0.91
7639	31	7638.49	-3.62	3.3	155.62	-12.33	-40.7	42.52	253.15	1.86
7671	32	7670.43	-1.59	3.95	157.62	-14.19	-39.9	42.35	250.43	2.07
7702	31	7701.35	0.69	4.51	160.66	-16.33	-39.09	42.36	247.33	1.95
7733	31	7732.23	3.37	5.42	162.8	-18.88	-38.25	42.66	243.73	3
7764	31	7763.07	6.49	6.15	161.75	-21.86	-37.3	43.23	239.63	2.38
7796	32	7794.87	10.09	6.79	164.11	-25.31	-36.25	44.21	235.08	2.17
7827	31	7825.63	13.88	7.33	163.06	-28.96	-35.17	45.56	230.53	1.79
7858	31	7856.36	17.95	7.83	163.54	-32.88	-34	47.29	225.96	1.63
7890	32	7888.04	22.45	8.39	163.97	-37.21	-32.74	49.56	221.34	1.76
7921	31	7918.67	27.19	9.33	165.43	-41.82	-31.48	52.34	216.98	3.12
7952	31	7949.22	32.43	10.21	162.93	-46.88	-30.04	55.68	212.65	3.15
7984	32	7980.68	38.28	10.9	160.19	-52.44	-28.18	59.53	208.26	2.67
8015	31	8011.08	44.33	11.63	158.18	-58.1	-26.03	63.66	204.13	2.67
8046	31	8041.39	50.84	12.61	156.83	-64.11	-23.54	68.3	200.16	3.29
8078	32	8072.58	57.99	13.23	156.59	-70.68	-20.71	73.65	196.33	1.94
8109	31	8102.73	65.19	13.64	155.38	-77.26	-17.78	79.28	192.96	1.6
8140	31	8132.83	72.58	14.03	153.62	-83.95	-14.59	85.21	189.86	1.85
8172	32	8163.82	80.55	14.88	154.14	-91.12	-11.07	91.79	186.93	2.69
8202	31	8193.7	88.78	15.90	155.51	-98.59	-7.56	98.88	184.30	2.77