

Anadrill Schlumberger Survey Report

Marathon Oil Co.
 Indian Hills Unit Gas Com #13
 Sidetrack #1
 Eddy County, New Mexico

Magnetic Declination: 9.56 DEG

Tie In Point (TIP):

Measured Depth	6971	FT.
True Vertical Depth	6903.39	FT.
Inclination	10.95	DEG
Azimuth	132.77	DEG
N/S Displacement(-ve for S)	-410.1	FT.
E/W Displacement(-ve for W)	373.23	FT.
Azim. From Rotary Table To Target	137.7	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)
7023	52	6954.38	564.63	11.66	129.18	-416.77	380.93	564.63	137.57	1.92
7055	32	6985.71	571.04	11.75	128.47	-420.84	385.99	571.05	137.47	0.53
7087	32	7017.05	577.44	11.63	128.4	-424.87	391.07	577.45	137.37	0.38
7118	31	7047.48	583.26	10.37	126.06	-428.45	395.77	583.27	137.27	4.31
7158	40	7086.83	590.28	10.33	124.83	-432.62	401.62	590.3	137.13	0.56
7217	59	7144.78	601.03	11.31	122.9	-438.78	410.82	601.09	136.89	1.77
7249	32	7176.15	607.06	11.38	119.55	-442.04	416.2	607.14	136.72	2.07
7310	61	7235.86	618.86	12.26	117.8	-448.03	427.16	619.03	136.37	1.56
7374	64	7298.05	633.09	14.98	119.12	-455.23	440.4	633.39	135.95	4.28
7470	96	7390.49	657.45	16.33	116.63	-467.32	463.3	658.06	135.25	1.57
7534	64	7451.87	674.37	16.56	116.88	-475.48	479.48	675.26	134.76	0.38
7597	63	7512.34	690.99	16.05	118.41	-483.68	495.15	692.19	134.33	1.06
7660	63	7573.06	706.79	14.84	117.82	-491.59	509.95	708.31	133.95	1.94
7692	32	7604.07	714.24	13.77	118.12	-495.3	516.93	715.92	133.78	3.35
7787	95	7696.53	734.69	12.78	116.5	-505.32	536.31	736.86	133.3	1.11
7871	84	7778.54	751.6	12.21	115.81	-513.33	552.62	754.26	132.89	0.7

Projected:

7923	52	7829.36	761.8	12.2	115.81	-518.12	562.52	764.77	132.65	0.02
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