

MDC Operations
9900 West Interstate 20
Midland, Texas 79706
Phone (915) 563-3057
Fax (915) 563-3059

Anadrill Schlumberger Survey Report

Phillips Petroleum Co.
Grayburg Deep Unit #15
Eddy County, New Mexico

Magnetic Declination: 11.36 DEG

Tie In Point (TIP):

Measured Depth	4400	FT.
True Vertical Depth	4398.7	FT.
Inclination	1.58	DEG
Azimuth	331.3	DEG
N/S Displacement(-ve for S)	73.28	FT.
E/W Displacement(-ve for W)	-14.69	FT.

Azim. From Rotary Table To Target 331.13 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)
4544	144	4542.65	76.58	1.46	328	76.58	-16.62	78.36	347.76	0.1
4608	64	4606.63	77.87	1.2	333.8	77.87	-17.34	79.78	347.44	0.46
4671	63	4669.62	78.89	1	321.6	78.89	-17.98	80.91	347.16	0.49
4734	63	4732.61	79.71	0.8	332.7	79.71	-18.52	81.84	346.92	0.42
4796	62	4794.61	80.14	0.2	294.4	80.14	-18.82	82.32	346.79	1.06
4858	62	4856.61	80.28	0.21	33.7	80.28	-18.85	82.47	346.79	0.5
4923	65	4921.61	80.52	0.26	340.1	80.52	-18.84	82.69	346.83	0.33
4987	64	4985.61	81	0.61	355.1	81	-18.91	83.18	346.86	0.57
5050	63	5048.6	81.67	0.67	337.8	81.67	-19.08	83.87	346.85	0.32
5113	63	5111.6	82.37	0.67	343.4	82.37	-19.33	84.6	346.79	0.1
5176	63	5174.59	83.15	0.83	340.6	83.15	-19.58	85.42	346.75	0.26
5238	62	5236.58	84.22	1.32	335.9	84.22	-20.02	86.57	346.63	0.8
5301	63	5299.57	85.45	1.19	329.3	85.45	-20.65	87.91	346.41	0.31
5363	62	5361.55	86.64	1.39	327.6	86.64	-21.39	89.24	346.13	0.33
5426	63	5424.54	87.87	1.18	335.4	87.87	-22.07	90.6	345.9	0.43
5489	63	5487.52	89.27	1.6	335.8	89.27	-22.7	92.11	345.73	0.67
5552	63	5550.49	91.05	1.85	344.1	91.05	-23.34	93.99	345.62	0.56
5614	62	5612.46	92.87	1.63	10.6	92.87	-23.45	95.79	345.83	1.33
5677	63	5675.44	94.3	1.08	23.8	94.3	-23.04	97.07	346.27	1
5740	63	5738.43	95.35	1.18	38.2	95.35	-22.4	97.95	346.78	0.48
5804	64	5802.42	96.4	1.26	41	96.4	-21.53	98.78	347.41	0.16
5867	63	5865.41	97.37	0.95	32	97.37	-20.8	99.56	347.94	0.56
5930	63	5928.4	98.17	0.9	43.8	98.17	-20.18	100.22	348.38	0.31
5993	63	5991.39	98.84	0.96	52.6	98.84	-19.42	100.73	348.88	0.25
6055	62	6053.38	99.5	1.41	63.8	99.5	-18.32	101.17	349.56	0.81
6118	63	6116.36	100.29	1.19	45.8	100.29	-17.16	101.75	350.29	0.73
6183	65	6181.35	100.88	0.46	63.2	100.88	-16.44	102.21	350.74	1.17
6246	63	6244.35	100.96	0.44	98.8	100.96	-15.98	102.22	351.01	0.44