

Proposed Well Profile

Report Date: August 28, 2000	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: Pogo Producing Company	Vertical Section Azimuth: 157.680°
Field: Eddy County, NM	Vertical Section Origin: N 0.000 ft, E 0.000 ft
Structure / Slot: Shugart 6 Fed #1 / Shugart 6 Fed #1	TVD Reference Datum:
Well: Shugart 6 Fed #1	TVD Reference Elevation: 0.0 ft relative to
Borehole: Shugart 6 Fed #1	Sea Bed / Ground Level Elevation: 0.000 ft relative to
UWI/API#:	Magnetic Declination: 9.155°
Proposal Name / Modified Date: Rev 4 / August 28, 2000	Total Field Strength: 50341.994 nT
Tort / AHD / DDI / ERD ratio: 17.472° / 623.72 ft / 4.041 / 0.052	Magnetic Dip: 61.080°
Grid Coordinate System: NAD27 New Mexico State Planes, Eastern Zone, US Feet	Declination Date: August 26, 2000
Location Lat/Long: N 32 52 0.000, W 103 48 0.000	Magnetic Declination Model: IGRF 1999
Location Grid N/E Y/X: N 679418.298 ftUS, E 663757.539 ftUS	North Reference: True North
Grid Convergence Angle: +0.28943846°	Total Corr Mag North -> True North: +9.155°
Grid Scale Factor: 0.999933980	Local Coordinates Referenced To: Structure Reference Point

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	9235.00	0.46	281.17	9230.80	-198.55	221.73	17.30	222.40	4.46	0.00	165.5MTF
	9300.00	1.47	180.31	9295.79	-197.92	220.94	17.04	221.60	4.41	2.50	165.5MTF
	9400.00	3.94	170.14	9395.67	-193.38	216.27	17.62	216.99	4.66	2.50	165.5MTF
	9500.00	6.43	167.81	9495.26	-184.51	207.42	19.39	208.32	5.34	2.50	-3.7
	9600.00	8.93	166.78	9594.35	-171.34	194.39	22.35	195.67	6.56	2.50	-2.6
	9700.00	11.42	166.20	9692.77	-153.88	177.22	26.49	179.19	8.50	2.50	-2.1
	9800.00	13.92	165.82	9790.33	-132.18	155.94	31.79	159.14	11.52	2.50	-1.7
	9900.00	16.42	165.56	9886.84	-106.26	130.58	38.27	136.07	16.33	2.50	-1.4
EOC (Curve-Hold)	9933.88	17.27	165.49	9919.26	-96.54	121.07	40.72	127.74	18.59	2.50	0.0
PBHL/TD	12008.11	17.27	165.49	11900.00	513.47	-475.00	195.00	513.47	157.68	0.00	0.0