

Sperry-Sun Drilling Services

Survey Report for NV ABO Unit #244



Mobil Exploration
Vacuum Field (PA/WC)

Lea County
Sec. 23-T17S-R34E

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
9029.00	80.600	317.106	8543.35	480.20 N	455.91 W	662.15	5.493
9060.00	80.700	317.006	8548.38	502.59 N	476.75 W	692.74	0.453
9076.00	79.500	316.706	8551.13	514.09 N	487.53 W	708.50	7.724
9092.00	80.100	317.506	8553.97	525.63 N	498.25 W	724.25	6.187
9123.00	82.200	317.506	8558.74	548.21 N	518.94 W	754.87	6.774
9136.00	83.000	316.306	8560.41	557.63 N	527.75 W	767.77	11.030
9154.00	83.700	318.406	8562.50	570.78 N	539.88 W	785.64	12.223
9188.00	86.000	317.006	8565.55	595.82 N	562.64 W	819.50	7.911

All data is in feet unless otherwise stated. Directions and coordinates are relative to True North.
Vertical depths are relative to RKB. Northings and Eastings are relative to 589' FSL & 1859' FEL.

The Dogleg Severity is in Degrees per 100ft.

Vertical Section is from 589' FSL & 1859' FEL and calculated along an Azimuth of 316.640° (True).

Based upon Minimum Curvature type calculations, at a Measured Depth of 9188.00ft.,
The Bottom Hole Displacement is 819.50ft., in the Direction of 316.640° (True).

Comments

Measured Depth (ft)	Station Coordinates			
	TVD (ft)	Northings (ft)	Eastings (ft)	Comment
8254.00	8253.15	20.41 N	15.70 W	Projection off of whipstock

Survey tool program

From Measured Depth (ft)	Vertical Depth (ft)	To Measured Depth (ft)	Vertical Depth (ft)	Survey Tool Description
0.00	0.00	8285.00	8283.70	BP Conventional Gyro - Gyro Survey
8285.00	8283.70	9188.00	8565.55	MWD Magnetic