

Phillips Petroleum Company

Survey Report for EVGSAU 3229-002
Data Source: Information from Location

New Mexico

Lea County

Measured Depth (ft)	Incl. (Deg)	Azim. (Deg)	Station Coordinates TVD (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Comment
5321.00	82.400	87.600	4567.58	4.76 N	952.00 E	952.00	3.07	
5353.00	82.600	88.100	4571.75	5.95 N	983.71 E	983.71	1.67	
5384.00	82.800	89.000	4575.69	6.72 N	1014.45 E	1014.45	2.95	
5416.00	83.300	89.100	4579.56	7.25 N	1046.21 E	1046.21	1.59	
5448.00	83.200	89.400	4583.33	7.67 N	1077.98 E	1077.98	0.98	
5456.00	83.500	89.600	4584.25	7.74 N	1085.93 E	1085.93	4.50	Last MWD Survey @ 5456' md
5521.00	83.500	89.600	4591.61	8.19 N	1150.51 E	1150.51	0.00	Projection to TD @ 5521' md

All data is in Feet (US) unless otherwise stated. Directions and coordinates are relative to True North. Vertical depths are relative to Well. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.

Vertical Section is from Well and calculated along an Azimuth of 90.000° (True).

Magnetic Declination at Surface is 7.849° (17-Apr-02)

Based upon Minimum Curvature type calculations, at a Measured Depth of 5521.00ft., The Bottom Hole Displacement is 1150.54ft., in the Direction of 89.592° (True).