

Scientific Drilling Planning Report

Company: Texaco E & P, Inc. Field: Vacuum Glorieta West Unit Site: Lea County, New Mexico Well: VGWU #59 Wellpath: NE Lateral	Date: 12/16/98 Co-ordinate(NE) Reference: Site: Lea County, New Mexico, True North Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level Section (VS) Reference: Site (0.0E,0.0N,60.0Azi) Plan: Plan #1	Time: 08:25:51 Page: 1
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Field: Vacuum Glorieta West Unit Map Projection & Zone: US State Plane Coordinate System 1927 Texas, Central Zone Ellipsoid: Clarke - 1866 Field Datum: Mean Sea Level	Local Coordinate Reference: Site Centre Location of Field Centre: N/A Field Centre Map Easting: m Field Centre Map Northing: m Direction of Local North: True Local Vertical Reference: Wellpath Datum Geomagnetic Model: IGRF95
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Site: Lea County, New Mexico

Site Centre: m E m N	Latitude Longitude
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Site Water Depth: 0.0 ft

Magnetic Declination: 0.00 deg

Grid Convergence: 0.00 deg

Measured Depths Referenced To: SITE 0.0 ft above Mean Sea Level

Well: VGWU #59

Originating From: 0.0 ft +N/-S 0.0 ft +E/-W	Map Easting : 0.00 m Map Northing: 0.00 m
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Wellpath: NE Lateral

Origin of Vertical Section: Site Centre	0.0 ft +N/-S 0.0 ft +E/-W
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Direction of Vertical Section: 59.98 deg

Plan: Plan #1

Date Composed: 12/16/98
Version: 1

Principal: Yes

Locked: No

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS d/100ft	Build d/100ft	Turn d/100ft	TFO deg	Target
5500.0	0.00	59.98	5500.0	0.0	0.0	0.00	0.00	0.00	0.00	
5860.0	0.00	59.98	5860.0	0.0	0.0	0.00	0.00	0.00	0.00	
6093.0	89.00	59.98	6010.0	73.7	127.6	38.19	38.19	0.00	0.00	ne landing
7245.1	89.00	59.98	6030.0	650.0	1125.0	0.00	0.00	0.00	0.00	NE Toe

Section 1 : Straight MD Part 1 Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS d/100ft	Build d/100ft	Turn d/100ft	TFO deg
5500.0	0.00	59.98	5500.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
5600.0	0.00	59.98	5600.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
5700.0	0.00	59.98	5700.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
5800.0	0.00	59.98	5800.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
5860.0	0.00	59.98	5860.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00

Section 2 : Inc Azi TVD Part 1 Build 38.19

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS d/100ft	Build d/100ft	Turn d/100ft	TFO deg
5870.0	3.82	59.98	5870.0	0.2	0.3	0.3	38.19	38.19	0.00	0.00
5880.0	7.64	59.98	5879.9	0.7	1.2	1.3	38.19	38.19	0.00	0.00
5890.0	11.46	59.98	5889.8	1.5	2.6	3.0	38.19	38.19	0.00	0.00