

Scientific Drilling Planning Report

Company: Nearburg Producing Company Date: 9/28/98 Time: 16:17:35 Page: 1
 Field: Buffalo Penn Gas East Co-ordinate (NE) Reference: Site: Lea County, New Mexico, True North
 Well: Viper "3" Federal #1 Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level
 Wellpath: OH Original hole Section (VS) Reference: Site 0.0E, 0.0N, 353.0Az
 Plan: Plan #1

Field: Buffalo Penn Gas East
 1600'FEL & 2200'FSL Sec. 3 R33E T20S

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

Map Projection & Zone: US State Plane Coordinate System 1927
 Texas, Central Zone

Ellipsoid: Clarke - 1866

Local Vertical Reference: Wellpath Datum

Field Datum: Mean Sea Level

Geomagnetic Model: IGRF95

Site: Lea County, New Mexico

Site Centre: m E
 m N

Latitude
 Longitude

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: Viper "3" Federal #1

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

Wellpath: OH Original hole

Origin of Vertical Section: Site Centre 0.0 ft +N-S
 0.0 ft +E-W

Direction of Vertical Section: 353.00 deg

Plan: Plan #1

Date Composed: 9/28/98
 Version: 1

Principal: Yes

Locked: No

Plan Section Information

MD	Inc	Adj	TVD	N/S	E/W	DLS	Build	Turn	TPO	Target
ft	deg	deg	ft	ft	ft	ft/100ft	ft/100ft	ft/100ft	deg	
5300.0	0.00	358.00	5300.0	0.0	0.0	0.00	0.00	0.00	0.00	
5500.0	0.00	358.00	5500.0	0.0	0.0	0.00	0.00	0.00	0.00	
5952.2	10.17	358.00	5949.8	40.0	-1.4	2.25	2.25	0.00	0.00	
13826.2	10.17	358.00	13700.0	1430.0	-50.0	0.00	0.00	0.00	0.00	TD

Section 1: Slant Part 1 Hold

MD	Inc	Adj	TVD	N/S	E/W	VS	DLS	Build	Turn	TPO
ft	deg	deg	ft	ft	ft	ft	ft/100ft	ft/100ft	ft/100ft	deg
5300.0	0.00	358.00	5300.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
5400.0	0.00	358.00	5400.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
5500.0	0.00	358.00	5500.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00

Section 2: Slant Part 2 Build 2.25

MD	Inc	Adj	TVD	N/S	E/W	VS	DLS	Build	Turn	TPO
ft	deg	deg	ft	ft	ft	ft	ft/100ft	ft/100ft	ft/100ft	deg
5600.0	2.25	358.00	5600.0	2.0	-0.1	2.0	2.25	2.25	0.00	0.00
5700.0	4.50	358.00	5699.8	7.8	-0.3	7.8	2.25	2.25	0.00	0.00
5800.0	6.75	358.00	5799.3	17.6	-0.6	17.7	2.25	2.25	0.00	0.00
5900.0	9.00	358.00	5898.4	31.3	-1.1	31.4	2.25	2.25	0.00	0.00
5952.2	10.17	358.00	5949.8	40.0	-1.4	40.0	2.25	2.25	0.00	0.00

EXHIBIT
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