

Scientific Drilling International

Survey Report

Company: TEXACO E & P INC.
Field: Vacuum San Andres
Site: Lea County, NM
Well: WVU #49H
Wellpath: DH - Job #32D1101592

Date: 1/11/2002
Co-ordinate(NE) Reference: Site: Lea County, NM, True North
Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level
Section (VS) Reference: Well (0.0E,0.0N,360.0Azi)
Survey Calculation Method: Minimum Curvature

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Survey: 11/6/01-11/9/01
 MWD 4317-5656'

Start Date: 1/11/2002

Company: SDI w/Unidril
Tool: MWD

Engineer: Lamb/McGhee

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg
4300.0	1.83	67.08	4299.0	48.2	48.2	35.9	60.1	36.69
4317.0	1.83	67.08	4316.0	48.4	48.4	36.4	60.6	36.95
4366.0	7.20	13.90	4364.8	51.7	51.7	37.9	64.1	36.22
4398.0	7.00	12.00	4396.6	55.6	55.6	38.8	67.7	34.90
4429.0	5.30	5.40	4427.4	58.8	58.8	39.3	70.7	33.74
4461.0	4.60	2.30	4459.3	61.6	61.6	39.5	73.1	32.66
4493.0	4.30	358.00	4491.2	64.1	64.1	39.5	75.3	31.65
4524.0	4.30	357.60	4522.1	66.4	66.4	39.4	77.2	30.69
4555.0	4.40	354.40	4553.0	68.7	68.7	39.2	79.1	29.72
4587.0	4.40	355.70	4584.9	71.2	71.2	39.0	81.2	28.73
4618.0	4.00	351.90	4615.8	73.4	73.4	38.8	83.0	27.84
4648.0	4.30	355.60	4645.7	75.6	75.6	38.5	84.8	27.02
4680.0	16.60	355.70	4677.1	81.4	81.4	38.1	89.8	25.10
4711.0	30.00	354.50	4705.6	93.5	93.5	37.0	100.6	21.59
4743.0	43.70	356.50	4731.1	112.6	112.6	35.6	118.1	17.53
4774.0	56.70	358.60	4750.9	136.4	136.4	34.6	140.7	14.24
4806.0	69.80	358.70	4765.3	164.9	164.9	33.9	168.3	11.63
4838.0	83.70	357.90	4772.6	195.9	195.9	33.0	198.7	9.56
4869.0	97.70	354.80	4772.2	226.8	226.8	31.0	228.9	7.79
4901.0	101.60	354.40	4766.8	258.2	258.2	28.1	259.7	6.20
4933.0	101.70	354.80	4760.4	289.4	289.4	25.1	290.5	4.96
4963.0	101.00	357.90	4754.5	318.7	318.7	23.3	319.6	4.17
4995.0	101.80	358.20	4748.2	350.1	350.1	22.2	350.8	3.63
5026.0	102.20	358.70	4741.7	380.4	380.4	21.4	381.0	3.21
5057.0	100.80	358.10	4735.5	410.8	410.8	20.5	411.3	2.86
5089.0	101.60	358.50	4729.3	442.2	442.2	19.6	442.6	2.54
5120.0	101.40	358.30	4723.1	472.5	472.5	18.7	472.9	2.27
5152.0	99.40	358.50	4717.4	504.0	504.0	17.9	504.3	2.03
5183.0	99.90	358.60	4712.2	534.5	534.5	17.1	534.8	1.83
5215.0	100.50	358.90	4706.5	566.0	566.0	16.4	566.3	1.66
5246.0	101.00	358.40	4700.7	596.5	596.5	15.7	596.7	1.51
5278.0	98.70	357.80	4695.2	628.0	628.0	14.6	628.1	1.33
5309.0	99.30	358.30	4690.4	658.6	658.6	13.6	658.7	1.18
5341.0	99.80	358.20	4685.1	690.1	690.1	12.6	690.2	1.05
5372.0	100.10	357.70	4679.7	720.6	720.6	11.5	720.7	0.92
5404.0	100.50	357.90	4674.0	752.1	752.1	10.3	752.2	0.79
5436.0	100.50	357.70	4668.2	783.5	783.5	9.1	783.6	0.67
5467.0	100.30	357.90	4662.6	814.0	814.0	7.9	814.0	0.66
5498.0	99.30	357.70	4657.3	844.5	844.5	6.8	844.6	0.46
5530.0	98.80	357.60	4652.3	876.1	876.1	5.5	876.1	0.36
5562.0	98.60	357.80	4647.4	907.7	907.7	4.2	907.7	0.27
5593.0	98.50	358.10	4642.8	938.3	938.3	3.1	938.3	0.19
5625.0	98.10	357.90	4638.2	970.0	970.0	2.0	970.0	0.12
5656.0	98.10	357.90	4633.8	1000.7	1000.7	0.9	1000.7	0.05

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88211-0719

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

P.O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-10

Revised February 10, 1995

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☒ AMENDED REPORT

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-02285	² Pool Code 62180	³ Pool Name Vacuum Grayburg San Andres
⁴ Property Code 11126	⁵ Property Name West Vacuum Unit	⁶ Well No. 49
⁷ OGRID Number 022351	⁸ Operator Name TEXACO EXPLORATION & PRODUCTION INC.	⁹ Elevation

¹⁰ Surface Location

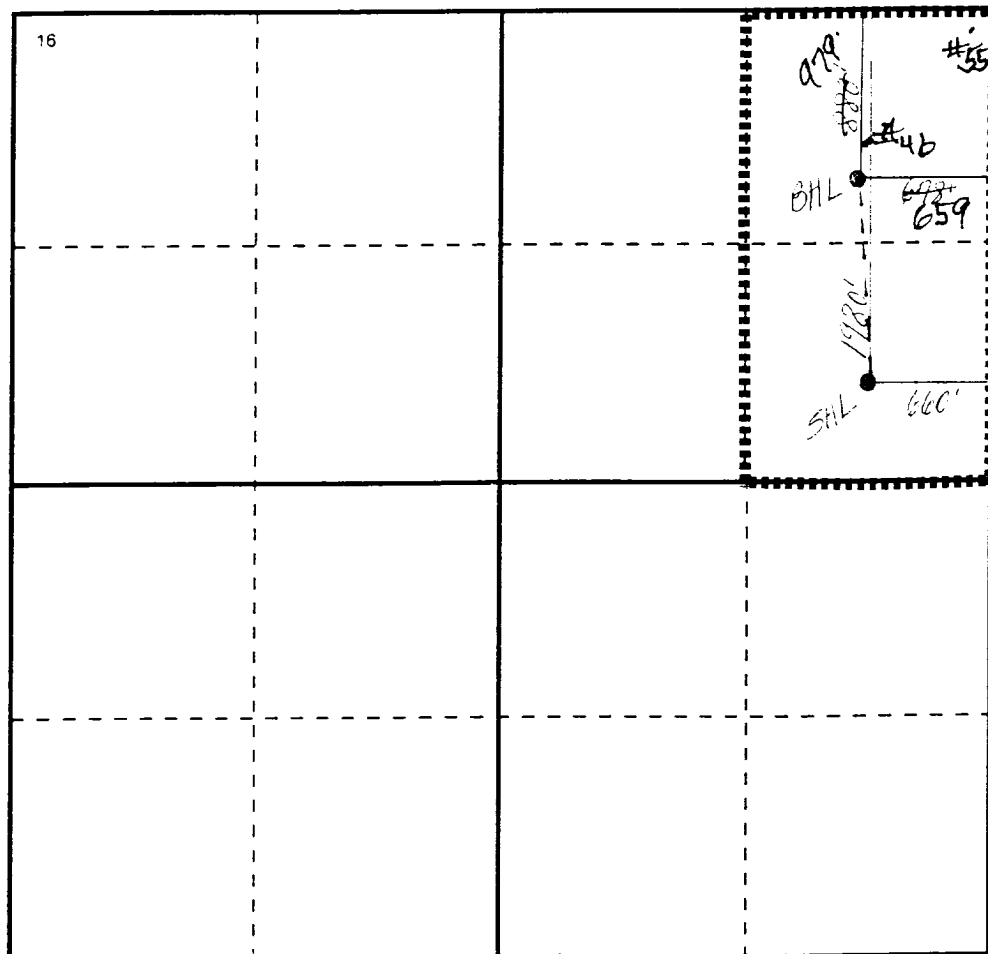
UI or lot no	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
H	3	18S	34E		1980	North	660	East	Lea

¹¹ Bottom Hole Location If Different From Surface

UI or lot no	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
A	3	18S	34E		880 979	North	678 659	East	Lea

¹² Dedicated Acre 80	¹³ Joint or Infill No	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature

Laura Skinner

Printed Name

Laura A. Skinner

Position

Regulatory Specialist

Date

02/04/02

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

Signature & Seal of Professional Surveyor

Certificate No.

