

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

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-101

Revised February 10, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 6 Copies

Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address TEXACO EXPLORATION & PRODUCTION INC. 205 E. Bender, HOBBS, NM 88240		² OGRID Number 022351
		³ API Number 3002530716
⁴ Property Code 11125	⁵ Property Name VACUUM GLORIETA WEST UNIT	⁶ Well No. 60

⁷ Surface Location

Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
B	36	17S	34E		990	NORTH	2308	EAST	LEA

⁸ Proposed Bottom Hole Location If Different From Surface

Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
A	36	17S	34E		790'	NORTH	1058'	EAST	LEA
⁹ Proposed Pool 1 VACUUM GLORIETA UNITIZED INTERVAL					¹⁰ Proposed Pool 2				

¹¹ Work Type Code P	¹² WellType Code O	¹³ Rotary or C.T. ROTARY	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3999' GR
¹⁶ Multiple No	¹⁷ Proposed Depth 6021'TVD	¹⁸ Formation PADDOCK	¹⁹ Contractor UNKNOWN	²⁰ Spud Date 1/25/99

²¹ Proposed Casing and Cement Program

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
NO CHANGE					

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

TEXACO INTENDS TO DRILL A SINGLE 1265' HORIZONTAL LATERAL IN THE ^{UPPER} PADDOCK FORMATION. THE INTENDED PROCEDURE IS AS FOLLOWS:

1. Lay down tbg & sub pump. Run a csg scraper to PBTD of 6380'. Set cmt ret @ 5900'. Cmt squeeze perms 6011-6051' & 6143-6184'. Dress cmt to top of ret if necessary.
2. TIH w/3 degree bottom set whipstock. (top of window-5889', btm of window-5896').
3. Drill short radius curve using bit to a measured depth of 6089'. (tvd-6021'). Final angle will be 89.5 degrees from vertical.
4. Drill 1265' horizontal section (azimuth 80.9 degrees).
5. Acid frac the horizontal lateral in the well. Place well on pump.

²³ I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature *J. Denise Leake*

Printed Name J. Denise Leake

Title Engineering Assistant

Date 1/15/99

Telephone 397-0405

OIL CONSERVATION DIVISION

Approved By:

Title:

Approval Date: 1/15/99

Expiration Date:

Conditions of Approval:

Attached ☐

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DISTRICT IV

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State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

Revised February 10, 1994

Instructions on back

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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 3002530716	² Pool Code 62160	³ Pool Name VACUUM GLORIETA
⁴ Property Code 11125	⁵ Property Name VACUUM GLORIETA WEST UNIT	
⁷ OGRID Number 022351	⁸ Operator Name TEXACO EXPLORATION & PRODUCTION INC.	⁶ Well No. 60 ⁹ Elevation 3999' GR

¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
B	36	17S	34E		990	NORTH	2308	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
A	36	17S	34E		790'	NORTH	1058'	EAST	LEA

¹² Dedicated Acres 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 <i>J. Denise Leake</i> Printed Name J. Denise Leake Position Engineering Assistant Date 1/15/99
	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.

Scientific Drilling Planning Report

Company: Texaco E & P, Inc. Field: Vacuum Glorieta West Unit Site: Lea County, New Mexico Well: VGWU #60 Wellpath: 1265' East Lateral	Date: 12/16/98 Time: 08:11:40 Page: 1 Co-ordinate(N/E) 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,80.9Azi) Plan: Plan #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
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 #60

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: 1265' East Lateral

Origin of Vertical Section: Site Centre 0.0 ft +N/-S 0.0 ft +E/-W	Direction of Vertical Section: 80.91 deg
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Plan: Plan #1	Date Composed: 12/15/98 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	Buid d/100ft	Turn d/100ft	TFO deg	Target
5500.0	0.00	80.9°	5500.0	0.0	0.0	0.00	0.00	0.00	0.00	
5900.0	0.00	80.9°	5900.0	0.0	0.0	0.00	0.00	0.00	0.00	
6088.5	89.50	80.9°	6020.7	18.9	118.1	47.48	47.48	0.00	0.00	
7233.9	89.57	80.91	6030.0	199.8	1249.1	0.01	0.01	0.00	0.12	Lateral 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	Buid d/100ft	Turn d/100ft	TFO deg
5500.0	0.00	80.91	5500.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
5600.0	0.00	80.91	5600.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
5700.0	0.00	80.91	5700.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
5800.0	0.00	80.91	5800.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
5900.0	0.00	80.91	5900.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00

Section 2 : Inc Azi MD Part 1 Build 47.48

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS d/100ft	Buid d/100ft	Turn d/100ft	TFO deg
5910.0	4.75	80.91	5910.0	0.1	0.4	0.4	47.48	47.48	0.00	0.00
5920.0	9.50	80.91	5919.9	0.3	1.6	1.7	47.48	47.48	0.00	0.00
5930.0	14.24	80.91	5929.7	0.6	3.7	3.7	47.48	47.48	0.00	0.00

Scientific Drilling Planning Report

Company: Texaco E & P, Inc.
Field: Vacuum Glorieta West Unit
Site: Lea County, New Mexico
Well: VGWU #60
Wellpath: 1265' East Lateral

Date: 12/18/98 Time: 08:11:40 Page: 2
Co-ordinate(N/E) 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,80.9Azi)
Plan: Plan #1

Section 2 : Inc Azi MD Part 1 Build 47.48

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
5940.0	18.99	80.91	5939.3	1.0	6.5	6.6	47.48	47.48	0.00	0.00
5950.0	23.74	80.91	5948.6	1.6	10.1	10.2	47.48	47.48	0.00	0.00
5960.0	28.49	80.91	5957.6	2.3	14.4	14.6	47.48	47.48	0.00	0.00
5970.0	33.24	80.91	5966.1	3.1	19.5	19.7	47.48	47.48	0.00	0.00
5980.0	37.98	80.91	5974.3	4.0	25.2	25.6	47.48	47.48	0.00	0.00
5990.0	42.73	80.91	5981.9	5.1	31.6	32.0	47.48	47.48	0.00	0.00
6000.0	47.48	80.91	5988.9	6.2	38.6	39.1	47.48	47.48	0.00	0.00
6010.0	52.23	80.91	5995.4	7.4	46.2	46.8	47.48	47.48	0.00	0.00
6020.0	56.98	80.91	6001.2	8.7	54.2	54.9	47.48	47.48	0.00	0.00
6030.0	61.73	80.91	6006.3	10.0	62.7	63.5	47.48	47.48	0.00	0.00
6040.0	66.47	80.91	6010.6	11.5	71.6	72.5	47.48	47.48	0.00	0.00
6050.0	71.22	80.91	6014.2	12.9	80.8	81.8	47.48	47.48	0.00	0.00
6060.0	75.97	80.91	6017.1	14.4	90.3	91.4	47.48	47.48	0.00	0.00
6070.0	80.72	80.91	6019.1	16.0	99.9	101.2	47.48	47.48	0.00	0.00
6080.0	85.47	80.91	6020.3	17.6	109.7	111.1	47.48	47.48	0.00	0.00
6088.5	89.50	80.91	6020.7	18.9	118.1	119.6	47.48	47.48	0.00	0.00

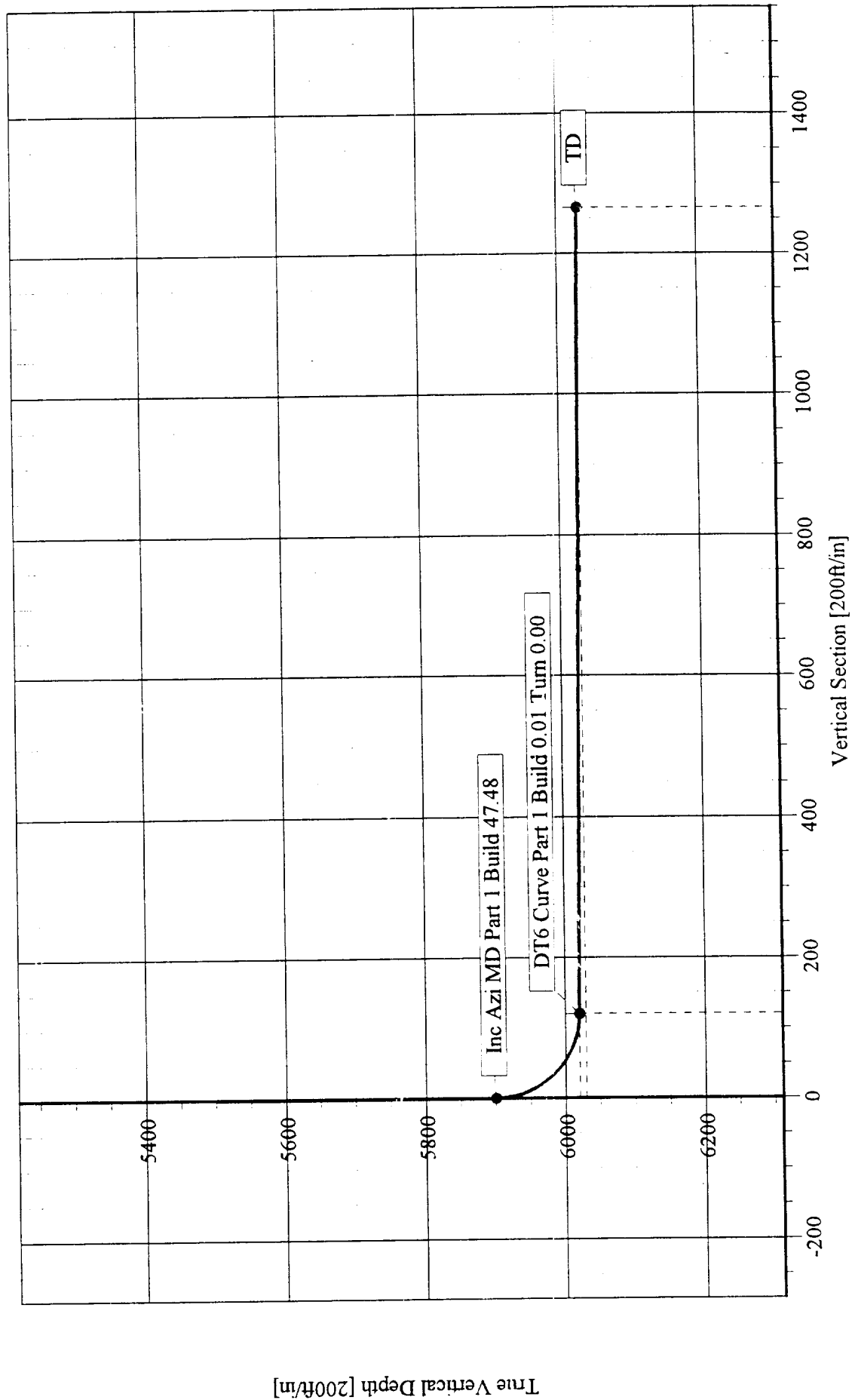
Section 3 : DT6 Curve Part 1 Build 0.01 Tu

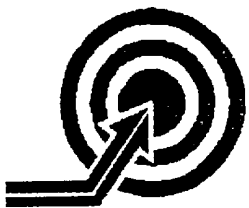
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS d/100ft	Build d/100ft	Turn d/100ft	TFO deg
6100.0	89.50	80.91	6020.8	20.7	129.5	131.1	0.01	0.01	0.00	0.12
6200.0	89.51	80.91	6021.6	36.5	228.2	231.1	0.01	0.01	0.00	0.12
6300.0	89.51	80.91	6022.5	52.3	327.0	331.1	0.01	0.01	0.00	0.12
6400.0	89.52	80.91	6023.3	68.1	425.7	431.1	0.01	0.01	0.00	0.12
6500.0	89.52	80.91	6024.2	83.9	524.4	531.1	0.01	0.01	0.00	0.12
6600.0	89.53	80.91	6025.0	99.7	623.2	631.1	0.01	0.01	0.00	0.12
6700.0	89.54	80.91	6025.8	115.5	721.9	731.1	0.01	0.01	0.00	0.12
6800.0	89.54	80.91	6026.6	131.3	820.7	831.1	0.01	0.01	0.00	0.12
6900.0	89.55	80.91	6027.4	147.1	919.4	931.1	0.01	0.01	0.00	0.12
7000.0	89.55	80.91	6028.2	162.9	1018.1	1031.1	0.01	0.01	0.00	0.12
7100.0	89.56	80.91	6029.0	178.7	1116.9	1131.1	0.01	0.01	0.00	0.12
7200.0	89.56	80.91	6029.7	194.5	1215.6	1231.1	0.01	0.01	0.00	0.12
7233.9	89.57	80.91	6030.0	199.8	1249.1	1265.0	0.01	0.01	0.00	0.12



Scientific
Drilling

Texaco E & P, Inc.
Field: Vacuum Glorieta West Unit
Site: Lea County, New Mexico
Well: VGWU #60
Wellpath: 1265' East Lateral
Plan: Plan #1





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