

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. P.O. Box 3109, Midland Texas 79702		² OGRID Number 022351
⁴ Property Code 11124	⁵ Property Name VACUUM GRAYBURG SAN ANDRES UNIT	³ API Number 30-025-33464 ⁶ Well No. 159

7 Surface Location

UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
A	1	18-S	34-E		907	NORTH	350	EAST	LEA

8 Proposed 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	1	18-S	34-E		572	NORTH	78	EAST	LEA

⁹ Proposed Pool 1 VACUUM GRAYBURG SAN ANDRES	¹⁰ Proposed Pool 2
--	-------------------------------

¹¹ Work Type Code N	¹² WellType Code O	¹³ Rotary or C.T. ROTARY	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3985'
¹⁶ Multiple No	¹⁷ Proposed Depth 4850'	¹⁸ Formation GRAYBURG /SA	¹⁹ Contractor NABORS	²⁰ Spud Date 6/1/96

21 Proposed Casing and Cement Program

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
11	8 5/8	24#	1550'	550 SACKS	SURFACE
7 7/8	5 1/2	15.5#	4850'	900 SACKS	SURFACE

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.

CEMENTING PROGRAM:

SURFACE CASING - 400 SACKS CLASS C w/4% GEL, 2% CACL2 (13.5 PPG, 1.74 CF/S, 9.1 GW/S). F/B 150 SACKS CLASS C w/ 2% CACL2 (14.8, 1.34 CF/S, 6.3 GW/S).

PRODUCTION CASING - 800 SACKS 35/65 POZ CLASS H w/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8 PPG, 1.94 CF/S, 10.4 GW/S). F/B 100 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S).

UNORTHODOX LOCATION: DIRECTIONAL WELL: HEARING HELD 5/16/96, FINAL ORDER PENDING.

THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION.

Permit Expires 1 Year From Approval

Date Unless Drilling Underway

Cannot produce until order is obtained

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.		OIL CONSERVATION DIVISION	
Signature <i>C. Wade Howard</i>		Approved By: ORIGINAL SIGNED BY JERRY SEXTON DISTRICT I SUPERVISOR	
Printed Name C. Wade Howard		Title:	
Title Eng. Assistant		Approval Date: JUN 10 1996	Expiration Date:
Date 5/21/96	Telephone 688-4606	Conditions of Approval: Attached ☐	

DISTRICT I
P. O. Box 1980, Hobbs, NM 88240

DISTRICT II
P. O. Drawer DD, Artesia, NM 88210

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

PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 10, 1994

Instructions on back

Submit to Appropriate District Office

State Lease-4 copies
Fee Lease-3 copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

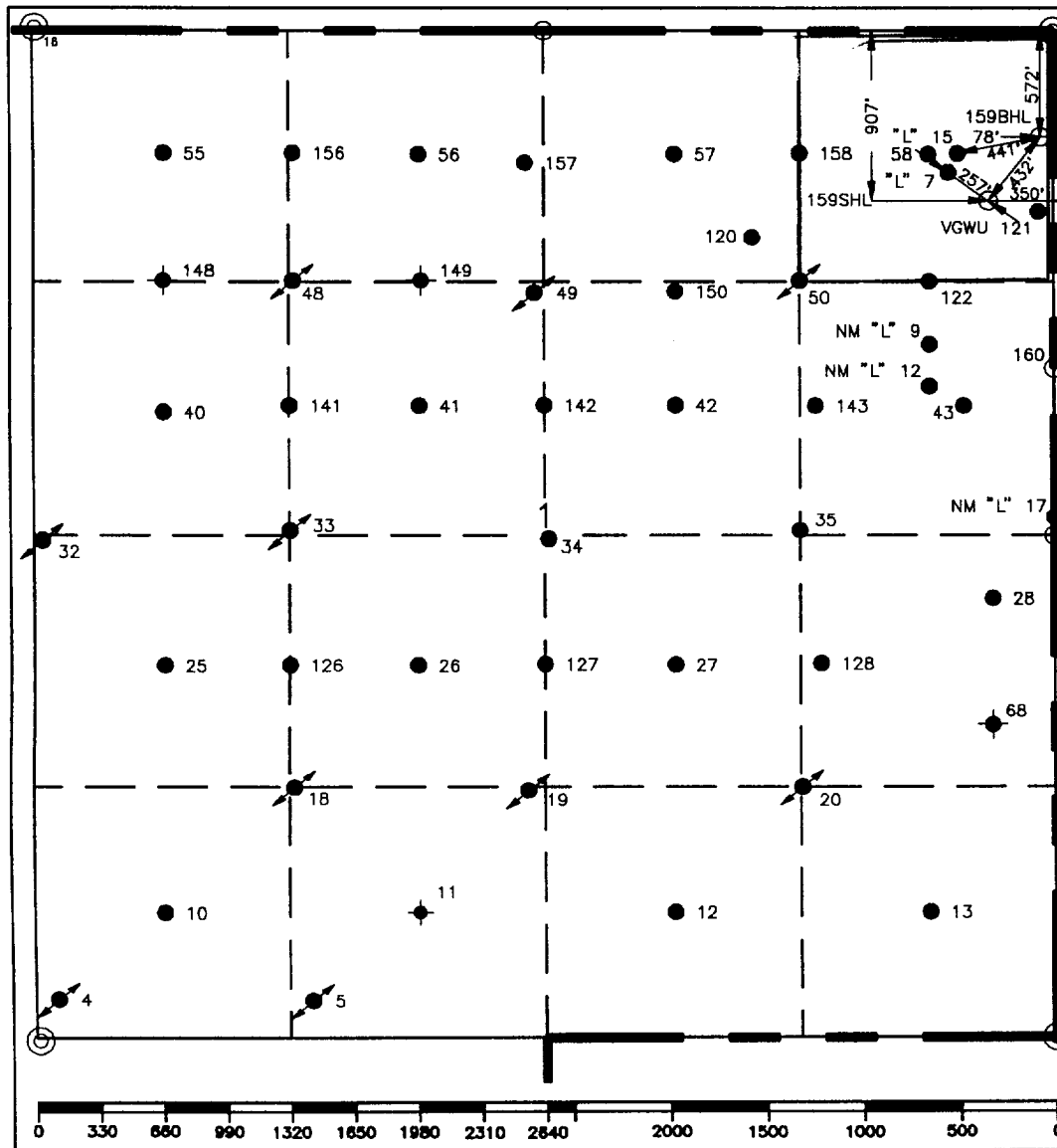
¹ API Number 3D-D25-33464		² Pool Code 62180		³ Pool Name Vacuum Grayburg San Andres	
⁴ Property Code 11124		⁵ Property Name Vacuum Grayburg San Andres Unit			⁶ Well Number 159
⁷ GRID No. 22351		⁸ Operator Name TEXACO EXPLORATION & PRODUCTION, INC.			⁹ Elevation 3985'

¹⁰ Surface Location									
UL or lot no. A	Section 1	Township 18-S	Range 34-E	Lot Idn	Feet from the 907'	North/South line North	Feet from the 350'	East/West line East	⁷ County Lea

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. A	Section 1	Township 18-S	Range 34-E	Lot Idn	Feet from the 572'	North/South line North	Feet from the 78'	East/West line East	⁷ County Lea

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
-------------------------------------	-------------------------------	----------------------------------	-------------------------

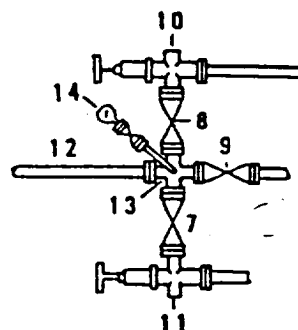
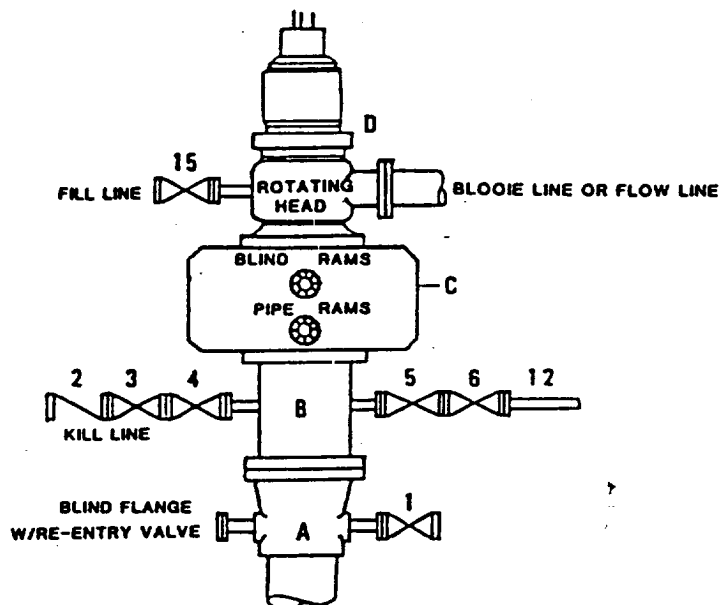
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION.



¹⁶ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
Signature <i>C. Wade Howard</i>	Printed Name C. Wade Howard
Position Engineer's Assistant	
Company Texaco Expl. & Prod. Inc.	
Date November 29, 1995	
¹⁷ 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 November 17, 1995	
Signature & Seal of Professional Surveyor <i>John S. Piper</i>	
Certificate No. 7254 John S. Piper	
Sheet	

**DRILLING CONTROL
CONDITION II-B 3000 WP
FOR AIR DRILLING OR
WHERE NITROGEN OR AIR BLOWS ARE EXPECTED**

H₂S TRIM REQUIRED
YES _____ NO _____



DRILLING CONTROL

MATERIAL LIST - CONDITION II - B

- | | |
|------------|---|
| A | Texaco Wellhead |
| B | 3000# W.P. drilling spool with a 2" minimum flanged outlet for kill line and 3" minimum flanged outlet for choke line. |
| C | 3000# W.P. Dual ram type preventer, hydraulic operated with 1" steel, 3000# W.P. control lines (where sub-structure height is adequate, 2 - 3000# W.P. single ram type preventers may be utilized). |
| D | Rotating Head with fill up outlet and extended Blooe Line. |
| 1,3,4,7,8, | 2" minimum 3000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve. |
| 2 | 2" minimum 3000# W.P. back pressure valve. |
| 5,6,9 | 3" minimum 3000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve. |
| 12 | 3" minimum schedule 80, Grade "B", seamless line pipe. |
| 13 | 2" minimum x 3" minimum 3000# W.P. flanged cross. |
| 10,11 | 2" minimum 3000# W.P. adjustable choke bodies. |
| 14 | Cameron Mud Gauge or equivalent (location optional in choke line). |
| 15 | 2" minimum 3000# W.P. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve. |



TEXACO, INC.
MIDLAND DIVISION
MIDLAND, TEXAS



SCALE	DATE	EST. NO.	DWG. NO.
DRAWN BY			
CHECKED BY			
APPROVED BY			

EXHIBIT C

Texaco Exploration & Production, Inc.

Te. ~~on GRAY BUTTE SANDHEDGES UNIT~~ Central Vacuum Unit, Well 159

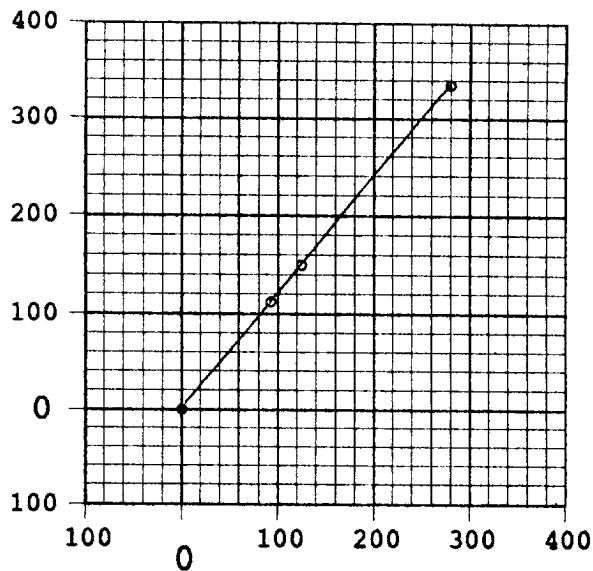
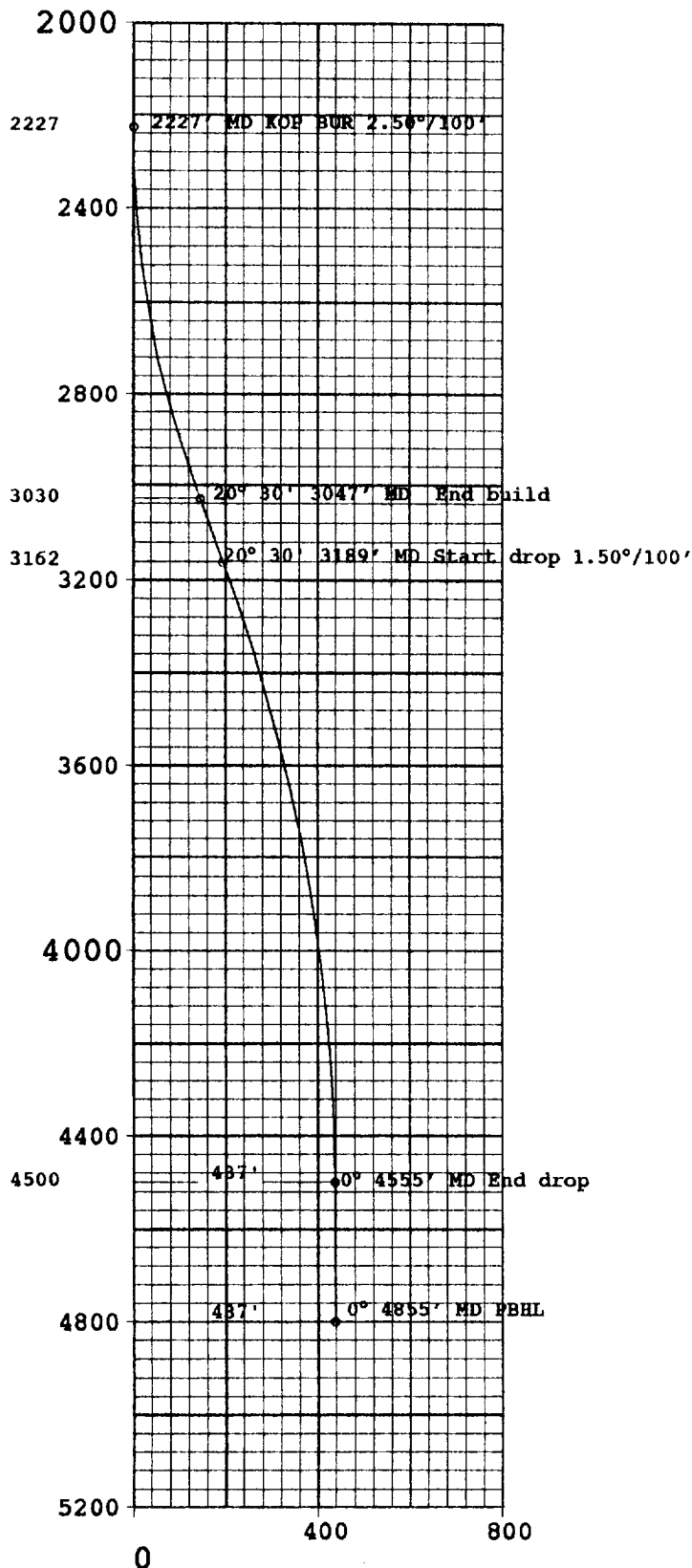
Section 1, Tp. 18S, Rge 34E - Lea County, New Mexico
Directional Proposal

Plane of Proposal

N 39° 53'E

VERTICAL SECTION

Scale 1" = 400'



HORIZONTAL PLAN

Scale 1" = 200'

N
North

PDS

PERFORMANCE DRILLING SPECIALISTS, INC.

DATE: January 8, 1996

DRAWN BY: Gary Long

PREPARED FOR: Scott Elkington

Note:

With motors, drilling a "S" curve will probably be the easiest way to stay within the 50' radius for the last 300'. End of curve has 141' tangent to establish drop rate in rotary mode.

Directional Proposal

Minimum Curvature Method

MEASURED DEPTH	INCL.	DIRECTION	VERTICAL DEPTH	R E C T A N G U L A R C O O R D I N A T E S		DLS Deg/100'
2000.00	0	0	2000.00	0	0	
2227.09	0	0	2227.09	0	0	0
2327.09	2.50	39.89	2327.05	1.67 N	1.40 E	2.50
2427.09	5.00	39.89	2426.83	6.69 N	5.59 E	2.50
2527.09	7.50	39.89	2526.23	15.04 N	12.57 E	2.50
2627.09	10.00	39.89	2625.06	26.72 N	22.33 E	2.50
2727.09	12.50	39.89	2723.13	41.68 N	34.84 E	2.50
2827.09	15.00	39.89	2820.26	59.92 N	50.08 E	2.50
2927.09	17.50	39.89	2916.25	81.39 N	68.03 E	2.50
3027.09	20.00	39.89	3010.94	106.05 N	88.64 E	2.50
3047.08	20.50	39.89	3029.70	111.36 N	93.08 E	2.50
3188.66	20.50	39.89	3162.31	149.40 N	124.88 E	0
3288.66	19.00	39.89	3256.43	175.33 N	146.55 E	1.50
3388.66	17.50	39.89	3351.39	199.36 N	166.63 E	1.50
3488.66	16.00	39.89	3447.15	221.47 N	185.11 E	1.50
3588.66	14.50	39.89	3543.62	241.65 N	201.98 E	1.50
3688.66	13.00	39.89	3640.75	259.89 N	217.22 E	1.50
3788.66	11.50	39.89	3738.47	276.17 N	230.83 E	1.50
3888.66	10.00	39.89	3836.72	290.48 N	242.79 E	1.50
3988.66	8.50	39.89	3935.41	302.81 N	253.10 E	1.50
4088.66	7.00	39.89	4034.50	313.16 N	261.75 E	1.50
4188.66	5.50	39.89	4133.90	321.51 N	268.73 E	1.50
4288.66	4.00	39.89	4233.55	327.86 N	274.04 E	1.50
4388.66	2.50	39.89	4333.39	332.21 N	277.67 E	1.50
4488.66	1.00	39.89	4433.34	334.56 N	279.63 E	1.50
4555.32	0	0	4500.00	335.00 N	280.01 E	1.50
4855.32	0	0	4800.00	335.00 N	280.01 E	0

Final location: 436.61 feet at 39.89 degrees

TYPE LOG

VACUUM GRAYBURG SAN ANDRES FIELD
 TEXACO E&P INC.
 VACUUM 36 STATE COM #1
 2310' PSL & 660' PSL
 SEC. 36 17S-34E
 LEA COUNTY, NEW MEXICO

