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

State of New Mexico Energy, Minerals and Natural Resources Department

Santa Fe, New Mexico 87504-2088

Form C-101 Revised February 10,1994

Instructions on back

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

OIL CONSERVATION DIVISION

Submit to Appropriate District Office

DISTRICT III

P.O. Box 2088 1000 Rio Brazos Rd., Aztec, NM 87410

State Lease - 6 Copies Fee Lease - 5 Copies

DISTRICT IV

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

■ AMENDED REPORT

APPLICATION FOR PI	ERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGB	ACK, OR ADD A ZONE
¹ Operator Na	rne and Address	² OGRID Number 022351
TEXACO EXPLORATION & PRODUCTION IF	NC.	022331
P.O. Box 3109, Midland Texas 79702		30-025 33330
⁴ Property Code	E Property Name	⁶ Well Na.
11122	CENTRAL VACUUM UNIT	188

Surface Location

UI or lot no.	Section	Township	Range	Lot.idn	Feet From The	North/South Line	Feet From The	East/West Line	County
Р	36	17-S	34-E		650	SOUTH	318	EAST	LEA

8 Proposed Bottom Hole Location If Different From Surface

			i iopo	SOG DOLLOI	II I IOIO EGGGGG		• • • • • • • • • • • • • • • • • •		
UI or lot no. P	Section 36	Township 17-S	Range 34-E	Lot.ldn	Feet From The 663	North/South Line SOUTH	Feet From The 10	East/West Line EAST	County LEA
	Proposed Pool 1 VACUUM GRAYBURG-SAN ANDRES						10 Proposed Poo	ol 2	

11 Work Type Code	12 WellType Code	Rotary or C.T. ROTARY	14 Lease Type Code S	¹⁶ Ground Level Elevation 3986'
16 Multiple	17 Proposed Depth	18 Formation	19 Contractor	²⁰ Spud Date
No	4850'	GRAYBURG/ S A	NABORS	4/1/96

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 zoneand proposed new productive zone.

Describe the blowout prevention program, if any. Use additional sheets if nece

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: ADMINISTRATIVE ORDER DD-127 (NSBHL). (COPY ATTACHED)

THERE ARE NO OTHER OPERATORS IN THIS QUARTER OHARTER ASSOCION.

Permit Expires 1 Year Floring Lindarway

Date Unless Drilling Underway

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 Approved By: OPIGINAL SIGNED BY GABY WINK		
Signature (Wade Howard			
Printed Name C. Wade Howard	Title:		
Title Eng. Assistant	Approval Date: MAR 15 1996 Expiration Date:		
Date 3/13/96 Telephone 688-4606	Conditions of Approval:		

DISTRICT 1 P. O. Box 1980, Hobbe, NM 88240

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

DISTRICT III
1000 Rio Brozoe 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

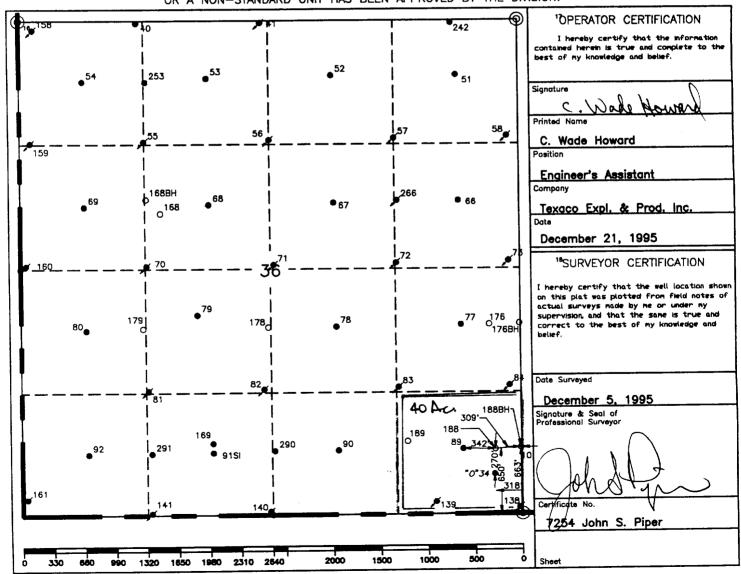
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	² Pool Code	3 Pool Name	
	62180	Vacuum Grayburg-San Andres	
Property Code		⁸ Well Number	
11133	Cent	188	
OGRID No.		Operator Name	9 Elevation
22351	TEXACO EXPLO	DRATION & PRODUCTION, INC.	3986'

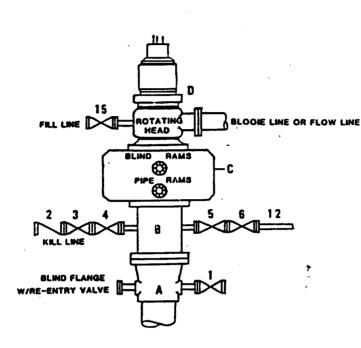
UL or lot no.	Section 36	Township	Range 34-E	Lot Idn	Feet from the 650'	North/South line South	Feet from the 318°	East/West line	County
Bottom Hole Location If Different From Surface									
UL or lot no.	Section 36	Township	Range 34—E	Lot Idn	Feet from the 663'	North/South line South	Feet from the	East/West line East	⁷ County Lea
12Dedicated Acres		nt or Infill		ation Code	¹⁵ Order No.		<u> </u>		
40									

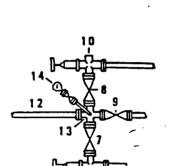
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION.



DRILLING CONTROL CONDITION II-B 3000 WP

FOR AIR DRILLING OR WHERE NITROGEN OR AIR BLOWS ARE EXPECTED





H2S TRIM REQUIRED

NO

YES

DRILLING CONTROL

MATERIAL LIST - CONDITION II - B

8	3000€	W.P.	drillin
			2411 14-

Texaco Wellhead

3000# W.P. drilling spool with a 2" minimum flanged outlet for kill line and 3" minimum flanged outlet for choke line.

30000 W.P. Dual ram type preventer, hydraulic operated with 1" steel, 30000 W.P. control lines (where substructure height is adequate, 2 - 30000 W.P. single ram type preventers may be utilized). c

Rotating Head with fill up outlet and extended Blooie Line.

2" minimum 3000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve. 1,3,4,

2" minimum 3000# W.P. back pressure valve. 2

 $\ensuremath{\mbox{3^{ol}}}$ minimum 3000f W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve. 5,6,9

3" minimum schedule 80, Grade "B", seamless line pipe.

2" minimum x 3" minimum 3000# W.P. flanged cross.

10,11 2" minimum 3000# W.P. adjustable choke bodies.

Cameron Hud Gauge or equivalent (location optional in choke line).

2" minimum 3000# W.P. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve. 15



TEXACO, INC. ----MIDLAND, TEEAS



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

EXHIBIT C

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT



12

OIL CONSERVATION DIVISION

2040 S. PACHECO SANTA FE, NEW MEXICO 87505 (505) 827-7131

January 19, 1996

Texaco Exploration and Production, Inc. P. O. Box 3109
Midland, Texas 79702

Attention: C. W. Howard

Administrative Order DD-127(NSBHL)

Dear Mr. Howard:

Under the provisions of Rules 111.D and E of the General Rules and Regulations of the New Mexico Oil Conservation Division ("Division"), revised by Division Order No. R-10388, issued by the Oil Conservation Commission in Case 11,274 on June 13, 1995 and Rule 104.F, revised by Division Order No. R-10533, issued by the Commission in Case 11351 on January 18, 1996, Texaco Exploration and Production Inc. made application to the New Mexico Oil Conservation Division on January 18, 1996 for authorization to directional drill its proposed Central Vacuum Unit Well No. 188, Lea County, New Mexico.

The Division Director Finds That:

- (1) The proposed wellbore to be drilled to a pre-determined bottom-hole location is within the applicant's Central Vacuum Unit Pressure Maintenance Project Area, established by Division Order No. R-5530, as amended, and as such the Vacuum Grayburg-San Andres Pool is subject to the statewide rules and regulations for oil wells, as promulgated by Rules 104.C(1)(a) and F(1), which provides for 40-acre oil spacing and proration units, or drilling units, and requires that wells be located no closer than 330 feet to the outer boundary of the lease or unitized area, nor closer than 10 feet to any quarter-quarter section line or subdivision inner boundary;
- Under the provisions of Division General Rule 104.F(1) the applicant further requests that the bottom-hole location be unorthodox for the purpose of completing an efficient injection/production pattern within the Central Vacuum Unit Pressure Maintenance Project Area;

- (3) It is Texaco's intent to place its Central Vacuum Unit Well No. 188 at a surface location 650 feet from the South line and 318 feet from the East line (Unit P) of Section 36, Township 17 South, Range 34 East, NMPM, Vacuum Grayburg-San Andres Pool, Central Vacuum Unit Area, Lea County, New Mexico, drill vertically to an approximate depth of 2735 feet, kick-off in an easterly direction, and drill directionally to a targeted unorthodox bottomhole oil well location that is approximately 663 feet from the South line and 10 feet from the East line (Unit P) of said Section 36.
- (4) It appears the applicant has satisfied all of the appropriate requirements prescribed in said Rules 111.D and E and 104.F, the subject application should be approved and the well should be governed by the provisions contained within this order and all other applicable and/or practical provisions of Division General Rules 111 and 104.F(1).

IT IS THEREFORE ORDERED THAT:

(1) Texaco Exploration and Production, Inc. is hereby authorized to drill its Central Vacuum Unit Well No. 188 from a surface location 650 feet from the South line and 318 feet from the East line (Unit P) of Section 36, Township 17 South, Range 34 East, NMPM, Central Vacuum Unit Area, Lea County, New Mexico, and intentionally deviate to a targeted unorthodox bottomhole oil well location within the Vacuum Grayburg-San Andres Pool that is approximately 663 feet from the South line and 10 feet from the East line (Unit P) of said Section 36.

<u>PROVIDED HOWEVER THAT</u> prior to commencing directional drilling operations in said wellbore, the applicant shall establish the location of the kick-off point by means of a directional survey acceptable to the Division.

<u>PROVIDED FURTHER THAT</u> during or upon completion of said directional drilling operations, the applicant shall conduct an accurate wellbore survey from the kick-off point to total depth in order that the subsurface bottomhole location, as well as the wellbore's true depth and course, may be determined.

(2) The applicant shall notify the supervisor of the Hobbs District office of the Division of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Hobbs offices of the Division upon completion.

Administrative Order DD-127(NSBHL)
Texaco Exploration and Production, Inc.
January 19, 1996
Page No. 3

- (3) The operator shall comply with all requirements and conditions set forth in Division General Rule 111.E(2) and any applicable and/or practical requirements in 111.D and F and 104.F(1).
- (4) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth (TVD) in addition to measured depths (MVD).
- (5) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION

WILLIAM J. LENIAY

Director

SEAL

cc: Oil Conservation Division - Hobbs New Mexico State Land Office - Santa Fe



Texaco Exploration and Production Inc.

500 North Loraine Midland TX 79701 P O Box 3109 Midland TX 79702

January 11, 1996

GOV - STATE AND LOCAL GOVERNMENTS
Unorthodox Locations
Directional Drilling
Central Vacuum Unit
Well Nos. 168, 176, 187, and 188
Vacuum Grayburg-San Andres Field
Lea County, New Mexico

State of New Mexico Energy and Minerals Department Oil Conservation Division 2040 South Pacheco Santa Fe, New Mexico 87505

Attention: Mr. Michael E. Stogner

Gentlemen:

An Exception to Rule 104 F.I. and to Rule 111 c.2 by administrative approval is requested for Texaco Exploration and Production Inc.'s Central Vacuum Unit Well Nos. 168, 176, 187 and 188.

These wells must be drilled at these locations to ensure proper development of 10-acre spacing. Wells drilled previously on 10-acre spacing have proven to be viable wells. These wells must be directionally drilled because surface obstructions prevented staking them at the proposed bottom-hole locations. They will be completed in the Grayburg San Andres formation and will be producing wells. See attached list for the surface and proposed bottom-hole locations. Also attached is a type log section, and our proposed directional plans. These wells will be drilled to a TVD of 4800'.

Texaco Exploration and Production Inc. is the only "affected offset operator" to Well Nos. 187 and 188. We grant ourselves a waiver to the unorthodox location. There are no "affected offset operators" to Well No. 176. Phillips Petroleum Company is the only "affected offset operator" to Well No. 168 and they have been notified of this request. (see attached certified receipt) Attached is Form C-102 for each well showing the surface and bottom-hole locations and a lease plat showing the location of the subject wells.

Any questions concerning this request should be directed to me at (915) 688-4606.

Yours very truly,

C. W. Howard Engineer Assistant

CWH: cwh cc: NMOCD, Hobbs, NM

CENTRAL VACUUM UNIT

WELL LOCATIONS

NO. 168: Surface 2068' FNL, 1467' FWL OF SEC. 36, T-17-S, R-34-E BHL: 1918' FNL & 1310' FWL OF SEC. 36, T-17-S, R-34-E

NO. 176: Surface 1988' FSL, 355' FEL OF SEC. 36, T-17-S, R-34-E BHL: 1993' FSL, 10' FEL OF SEC. 36, T-17-S, R-34-E

NO. 187: Surface 974' FSL, 1199' FWL OF SEC. 31, T-17-S, R-35-E BHL: 660' FSL, 1292' FWL OF SEC. 31, T-17-S, R-35-E

NO. 188: Surface 650' FSL, 318' FEL OF SEC. 36, T-17-S, R-34-E BHL: 663' FSL, 10' FEL OF SEC. 36, T-17-S, R-34-E

SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, and 4e & b. Print your name and address on the reverse of this form so the return this card to you. Attach this form to the front of the malipiece, or on the back	t we can follow	so wish to receive ting services (for an ex
does not permit. • Write "Return Receipt Requested" on the maliplece below the er • The Return Receipt will show to whom the article was delivered	cle number 2	☐ Restricted Delivery It postmester for fee.
delivered. 3. Article Addressed to:	A - A -siele Nes	
PHILLIPS PETROLEUM Co.	4b. Service Ty	
4001 PENBROOK	☐ Certified	☐ COD
ODESSA, TX 79762	7. Date of De	"
ODESSA, TX 79762	1-1	1-96 Am
5. Signature (Addressee)	8. Addressee and fee is	s Address (Only (Feque
6 Shousture (Agent)	4	
28/1 December 1991 NULL OPC 1983	DOME	STIC RETURN REC

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Texaco Exploration and Production Inc

500 North Loraine Midland TX 79701 P O Box 3109 Midland TX 79702

January 11, 1996

GOV - STATE AND LOCAL GOVERNMENTS Unorthodox Locations Central Vacuum Unit Well No. 168 Vacuum Grayburg-San Andres Field Lea County, New Mexico

Phillips Petroleum Company 4001 Penbrook Odessa, Texas 79762

Gentlemen:

As the "affected offset operator" to the captioned well, you are being furnished with a copy of our Application for an Exception to Rules 104, F.I. and 111 c.2. If you have no objection, please sign the waiver at the bottom of this letter and return in the enclosed envelope.

Any questions concerning this request should be directed to me at (915) 688-4606.

Yours very truly,

C. Wale Howard

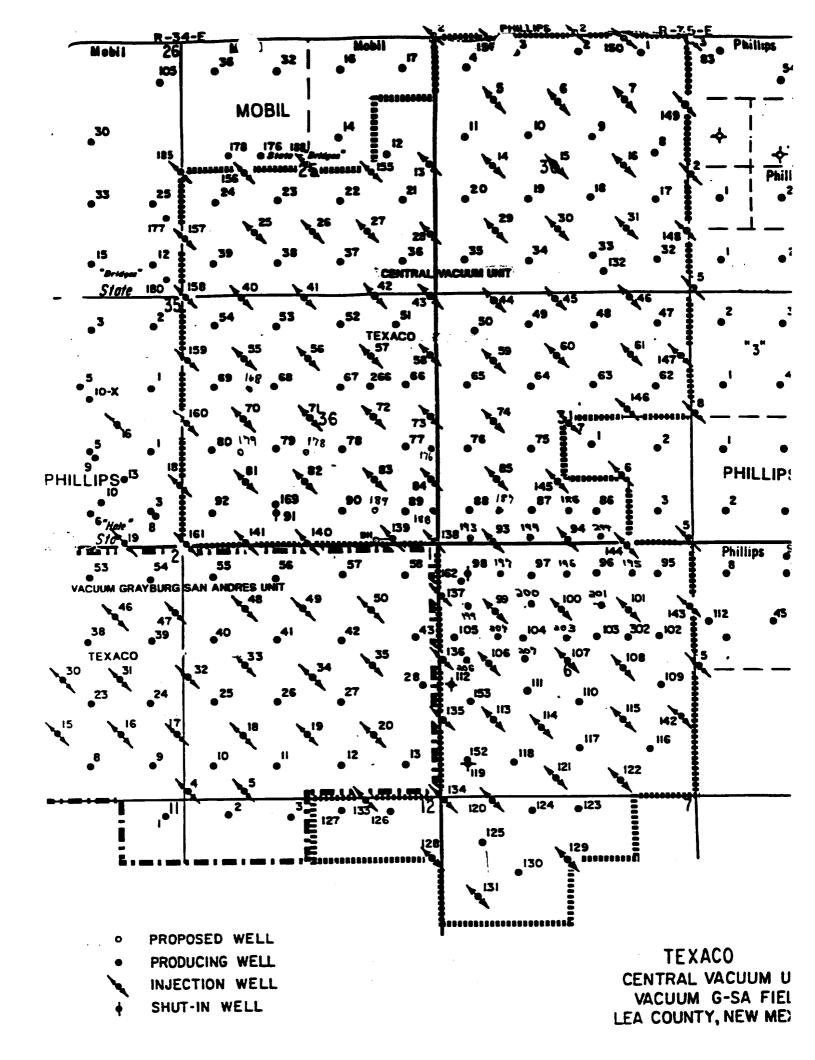
C. W. Howard Engineer Assistant

CWH: cwh

File

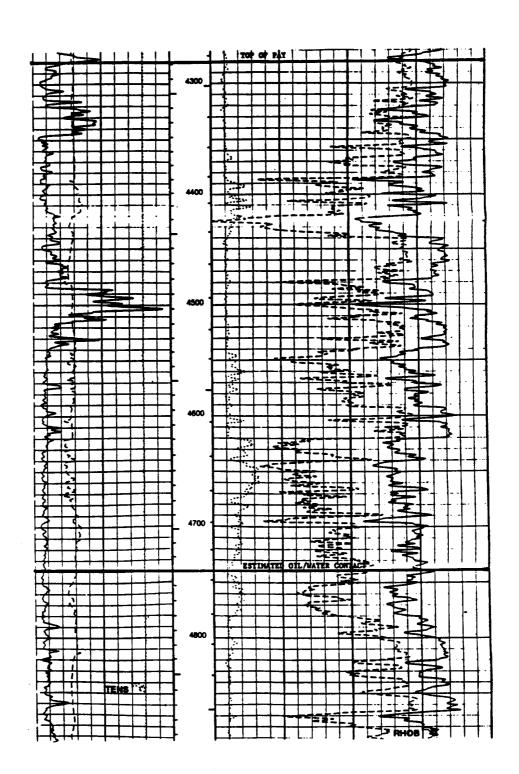
WAIVER APPROVED:

COMPANY:_	 		
BY:	 	· · · · · · · · · · · · · · · · · · ·	
DATE:			



TIPE LOS

VACUUM GRAYNUNG RAH AMDRES FIELD TELACO EAP INC. VACUUM 36 STATE COM #1 2310' PEL & 660' FEL SEC. 36 179-34E LEA COUNTY, MEN MEXICO

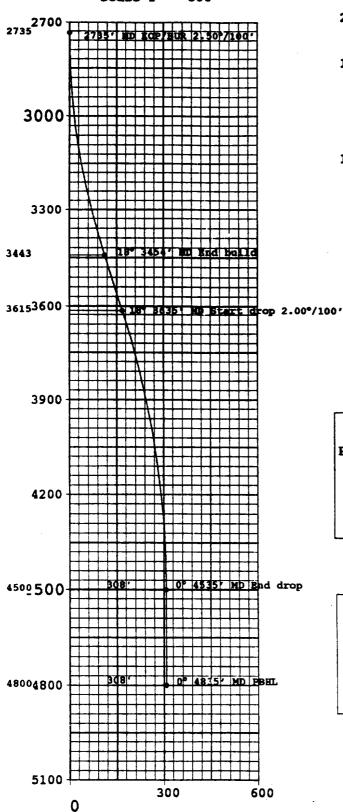


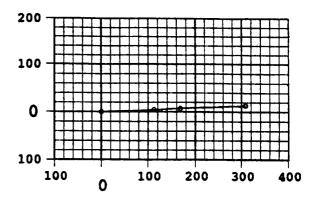
Texaco Exploration & Production, Inc.

Texaco Central Vacuum Unit, Well #188
Section 36, Tp. 17S, Rge 34E - Lea County, New Mexico
Directional Proposal

Plane of Proposal

VERTICAL SECTION
Scale 1" = 300'





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 181' tangent to establish drop rate in rotary mode.

Page 1

Directional Proposal

Minimum Curvature Method

MEASURED DEPTH	INCL.	DIRECTION	VERTICAL DEPTH	RECTAN COORDI		DLS Deg/100'
				_	_	
2000.00	0	Ō	2000.00	0	0	_
2500.00	0	0	2500.00	0	0	0
2734.51	0	0	2734.51	0	0 .	0
2834.51	2.50	87.58	2834.48	.09 M	2.18 E	2.50
2934.51	5.00	87.58	2934.26	.37 N	8.71 E	2.50
3034.51	7.50	87.58	3033.65	.83 N	19.59 E	2.50
3134.51	10.00	87.58	3132.48	1.47 N	34.79 E	2.50
3234.51	12.50	87.58	3230.55	2.29 N	54.28 E	2.50
3334.51	15.00	87.58	3327.68	3.30 N	78.02 E	2.50
3434.51	17.50	87.58	3423.68	4.48 N	105.98 E	2.50
3454.50	18.00	87.58	3442.71	4.74 N	112.07 E	2.50
3635.38	18.00	87.58	3614.75	7.10 N	167.91 E	0
3735.38	16.00	87.58	3710.37	8.33 N	197.12 E	2.00
3835.38	14.00	87.58	3806.96	9.42 N	222.98 E	2.00
3935.38	12.00	87.58	3904.39	10.37 N	245.45 E	2.00
4035.38	10.00	87.58	4002.55	11.18 N	264.52 E	2.00
4135.38	8.00	87.58	4101.31	11.84 N	280.15 E	2.00
4235.38	6.00	87.58	4200.56	12.35 N	292.32 E	2.00
4335.38	4.00	87.58	4300.18	12.72 N	301.03 E	2.00
4435.38	2.00	87.58	4400.03	12.94 N	306.26 E	2.00
4433.30	2.00	07.50	4400.00	22174 4	3000E	
4535.37	0	0	4500.00	13.02 N	308.00 E	2.00
4835.37	Ō	0	4800.00	13.02 N	308.00 E	0
	-					

Final location: 308.28 feet at 87.58 degrees

DISTRICT 1
P. O. Ber 1980, Hobbs, NM 86240

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

DISTRICT III
1000 Rio Bruzoe Rd., Aztec, NM 87410
DISTRICT N

DISTRICT IV
P. O. Bex 2088, Sents Fe, NM 87504-2086

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

PO Box 2088 Santa Fe, NM 87504-2088 Form C-10; Revised February 10, 199 instructions on book

Submit to Appropriate District Offic

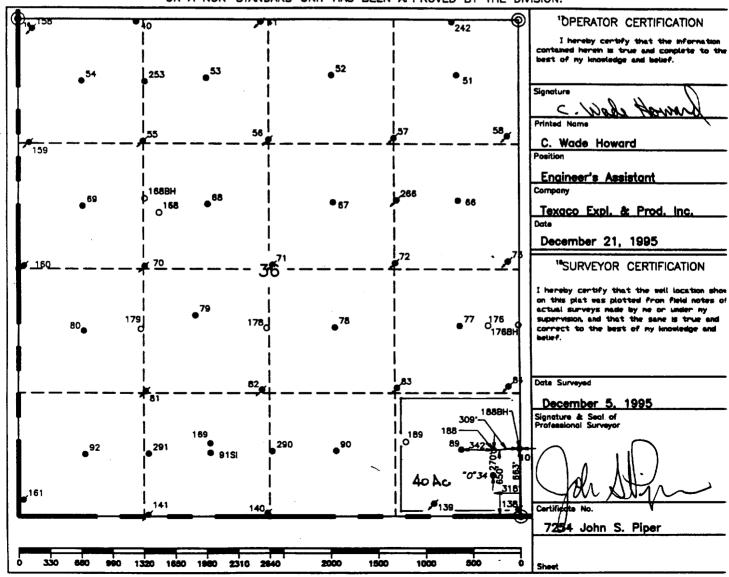
State Lease-4 copie Fee Lease-3 copie

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number				² Pool Code	³ Paol Name				
			(08156	Vac	uum Grayburg—S	San Andres		
Property Code			Property Name						Well Number
11133	~	Central Vacuum Unit							188
OGRID No.		Operator Name							Devation
33321		TEXACO EXPLORATION & PRODUCTION, INC.							3986'
					10 Surface L	ocation			
L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Р	36	17 - S	34-E		650'	South	318'	East	Lea
			11 B	ottom Ho	e Location If	Different From	Surface		*************************************
L or lot no.	Section	Township	Ronge	Lot idn	Feet from the	North/South line	Feet from the	East/West line	⁷ County
Р	36	17 - S	34-E		663'	South	10'	East	Lea
dicated Acres 13 Joint or Infill		¹ Consolidation Code		¹⁸ 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.



20/5/5

j

Real Control of the C