

CAMPBELL, CARR, BERGE
& SHERIDAN, P.A.
LAWYERS

MICHAEL B. CAMPBELL
WILLIAM F. CARR
BRADFORD C. BERGE
MARK F. SHERIDAN

MICHAEL H. FELDEWERT
TANYA M. TRUJILLO
PAUL R. OWEN

JACK M. CAMPBELL
OF COUNSEL

JEFFERSON PLACE
SUITE 1 - 110 NORTH GUADALUPE
POST OFFICE BOX 2208
SANTA FE, NEW MEXICO 87504-2208
TELEPHONE: (505) 988-4421
TELECOPIER: (505) 983-6043

July 17, 1996

HAND DELIVERED

Mr. David R. Catanach
Hearing Examiner
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
2040 South Pacheco Street
Santa Fe, New Mexico 87504

RECEIVED

JUL 17 1996

Oil Conservation Division

Re: *Texaco Exploration and Production Inc.*
Vacuum Grayburg San Andres Unit Well # 159
Unit A, Section 1, Township 18 South, Range 34 East
Application for Surface Commingling

Dear Mr. Catanach:

This letter confirms our conversations of July 15 and 16 concerning the surface commingling of production at the above referenced well. It is our understanding that Texaco should proceed with the installation of a flowline from this well to the Vacuum Grayburg San Andres Unit Production Satellite 2 where a three phase separator will be installed and dedicated to this well. All three phases from this well will be metered prior to commingling with other production at the satellite. A separate tank battery will not be required and Texaco will be permitted to process and sell the production from this well at the Vacuum Grayburg San Andres Unit Tank Battery as it has proposed. Production from the well will be allocated to the Vacuum Grayburg San Andres Unit and the Central Vacuum Unit in accordance with the provisions of Division Order R-10603 and the Vacuum Area Cooperative Lease Line Agreement.

Mr. David R. Catanach
Hearing Examiner
July 17, 1996
Page 2

Pursuant to the Division's instructions, Texaco has provided notice of its June 26, 1996 application for administrative approval for surface commingling by certified mail to all interest owners in the Central Vacuum Unit and the purchaser of the commingled production. Texaco owns 100% of the working interest in the Vacuum Grayburg San Andres Unit. Attached to each notice letter was a copy of Texaco's application and each interest owner was advised that any objection they might have to this application had to be made to the Division within 20 days of the date of our letter.

Texaco is producing this well through an existing separator pursuant to verbal approval from the Hobbs District Office. If the Division has additional questions concerning this matter, please advise.

Very truly yours,

A handwritten signature in black ink, appearing to read "William F. Carr", with a long, sweeping horizontal line extending to the right.

WILLIAM F. CARR
Attorney for Texaco Exploration and Production Inc.

cc: Mr. Ronald W. Lanning
Texaco Exploration and Production Inc.
Post Office Box 3109
Midland, Texas 79702

Mr. Monte C. Duncan
Texaco Exploration and Production Inc.
205 East Bender Blvd.
Hobbs, New Mexico 88240



June 26, 1996

New Mexico Oil Conservation Division
P.O. Box 1980
Hobbs, New Mexico 88240

Attn: Mr. Jerry Sexton
New Mexico Oil Conservation Division District I Supervisor

COPY

RE: Temporary Approval to Surface Commingle
Vacuum Grayburg San Andres Pool
Vacuum Grayburg San Andres Unit #159
Unit Letter A, Section 1, T-18-S, R-34-E
Lea County, New Mexico

GAVE VERBAL ON 7-8-96 PENDING
NOTIFICATION OF ALL PARTIES IN CVU
& VGSAU. WILL START 30 DAY
RELEASE FROM DATE OF CERTIFIED
MAILINGS - FOR FINAL PERMIT
CTB - 428

Mr. Sexton:

Texaco Exploration and Production Inc. respectfully requests a 30 day temporary approval to surface commingle production from Vacuum Grayburg San Andres Unit #159 with production from other Vacuum Grayburg San Andres wells producing into Vacuum Grayburg San Andres Unit Production Satellite 2. An application for surface commingling concerning this well that was sent to the NMOCD in Santa Fe and the New Mexico Land Department is attached for your information.

This well was spud on 6/16/96 and is currently being completed in the Vacuum Grayburg San Andres pool. A flowline will be installed from the well to VGSAU Production Satellite 2. A three phase separator dedicated only to this well will be installed at the satellite. All three phases from Well #159 will be metered prior to commingling with other production at the satellite. Production from Satellite #2 is processed and sold at the Vacuum Grayburg San Andres Unit Tank Battery.

Please indicate your approval of the above proposal by signing in the space provided below and returning one copy to Texaco in the self addressed envelope.

If you have any questions concerning this proposal, please contact me at 397-0418. Thank you for your consideration of this proposal.

Sincerely,

Monte C. Duncan
Engineer's Assistant

Approved by: _____

Date: _____

/mcd

cc: New Mexico Oil Conservation Division, Santa Fe
New Mexico Land Department, Santa Fe



June 26, 1996

New Mexico Land Department
P.O. Box 1148
Santa Fe, New Mexico 87505

COPY

Attn: Mr. Larry Kehoe, Director; Oil, Gas, and Minerals Division

RE: Request for Exception to Rule 303-B
Surface Commingling
Vacuum Grayburg San Andres Pool
Vacuum Grayburg San Andres Unit #159
Unit Letter A, Section 1, T-18-S, R-34-E
Lea County, New Mexico

Gentlemen:

Texaco Exploration and Production Inc. respectfully requests administrative approval for an exception to Rule 303-B to permit the surface commingling of the production from the above oil well with production from other Vacuum Grayburg San Andres wells producing into Vacuum Grayburg San Andres Unit Production Satellite 2.

This well was spud on 6/16/96 and is currently being completed in the Vacuum Grayburg San Andres pool. This is a "lease line" producer between the Vacuum Grayburg San Andres Unit and the Central Vacuum Unit. Costs and production will be allocated equally to each unit. Operations will be governed by the CVU Operating Agreement.

This well is located on a state lease. The state beneficiary of this well is common schools. Texaco has approximately eighty percent of the working interest in this well. All of the offset operators are also working interest partners in this well.

Enclosed is the pertinent data supporting this application as outlined in Rule 303-B. Attached for your review are the following: surface commingling process description, acreage dedication plat and directional proposal for VGSAU #159, schematic of VGSAU Satellite 2, and a copy of Administrative Order DD-149.

A check for \$30.00 for the filing fee is enclosed. If you have any questions or require further information concerning this proposal, please contact Robert McNaughton at (505) 397-0428 or myself at (505) 397-0418. Thank you for your assistance in the approval of this application.

Sincerely,


Monte C. Duncan
Engineer's Assistant
/mcd, Chrono, Attachments

cc: New Mexico Oil Conservation Division (one copy Santa Fe; one copy District I Office)

COMMINGLE PRE-APPLICATION

STATE LAND OFFICE RULES 1.053-1.055 APPLY TO COMMINGLING OIL AND GAS PRODUCTION FROM NEW MEXICO STATE LANDS. PLEASE PROVIDE THE FOLLOWING INFORMATION SO THAT WE CAN DETERMINE WHETHER OR NOT A COMMINGLE APPLICATION PACKAGE SHOULD BE SUBMITTED.

1. BRIEFLY DESCRIBE WHAT YOU PROPOSE TO DO.

PLEASE SEE ATTACHED LETTER

2. FILL IN THE FOLLOWING INFORMATION FOR EACH WELL.

WELL NUMBER	LEGAL DESCRIPTION	LESSEE OF RECORD	N.M. LEASE NUMBER	FORMATION
VGSAU #159	A-1-18S-34E	TEPI	B-1733	Vacuum Grayburg San Andres

NAME: Monte C. Duncan, Engineer's Assistant

COMPANY: Texaco Exploration and Production Inc.
205 East Bender, Hobbs, New Mexico 88240

PHONE NUMBER: (505) 397-0418 or (505) 393-7191

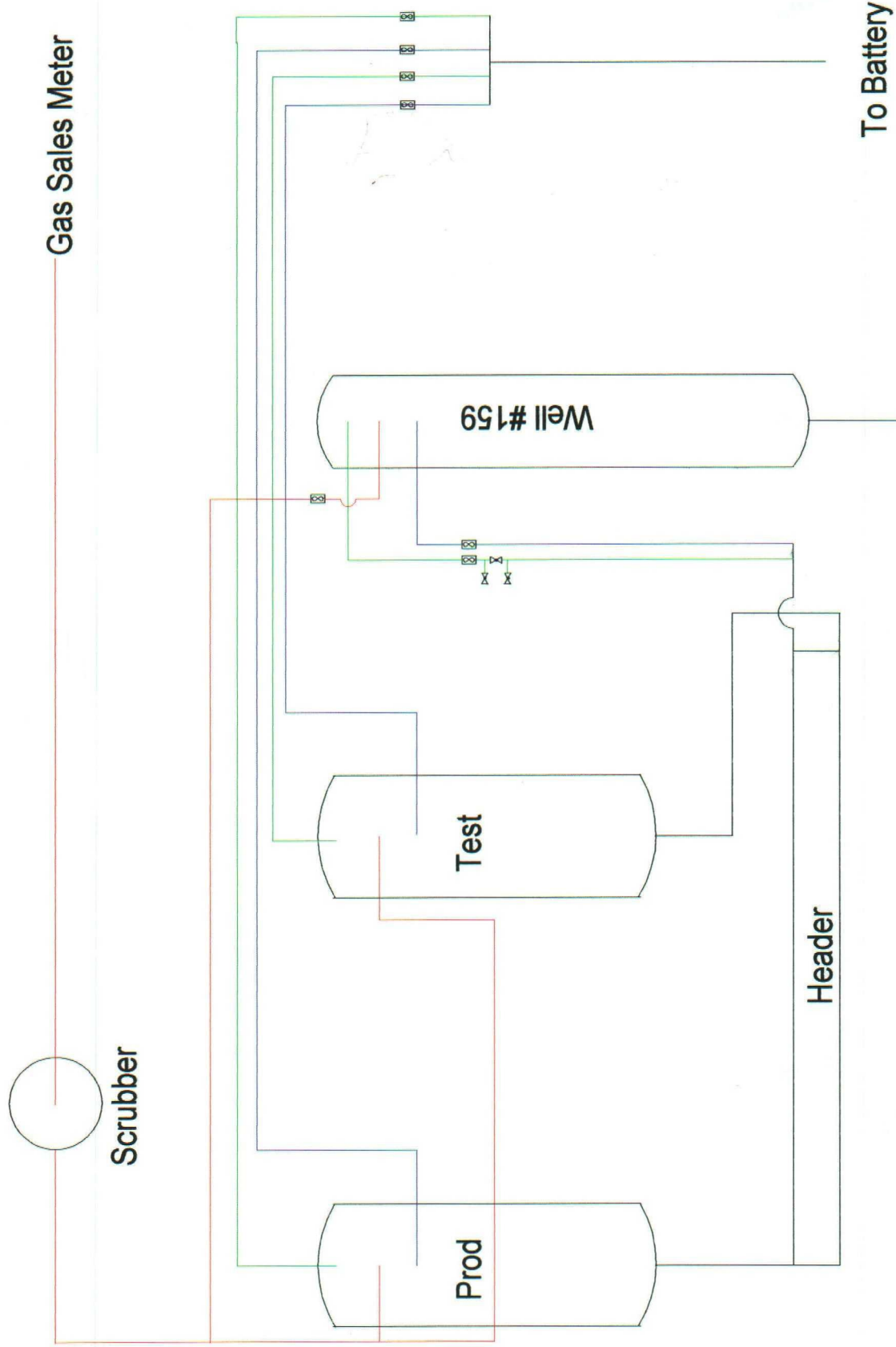
IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT THE OIL, GAS AND MINERALS DIVISION AT (505) 827-5744.

KKCS 06-04-91

Vacuum Grayburg San Andres Unit Well #159
Surface Commingling Process Description

A flowline will be installed from the well to VGSAU Production Satellite #2 (located Unit Ltr F Sec. 1, T-18-S, R-43-E). A three phase separator dedicated only to this well will be installed at the satellite. All three phases from Well #159 will be metered prior to commingling with other production at the satellite. Production from Satellite #2 is processed and sold at the Vacuum Grayburg San Andres Unit Tank Battery (located Unit Ltr F Sec. 2, T-18-S, R-43-E).

A proving loop will be installed at the oil meter so that periodic meter calibration tests can be conducted in accordance with NMOCD's "Manual for the Installation and Operation of Commingling Facilities".



Texaco Exploration & Production Inc.
 Vacuum Grayburg San Andres Unit
 Production Satellite #2

X	Valve	⊠	Meter
—	Gas	—	Water
—	Mixture	—	Oil

CMD :
OG5SDIR

MAINTAIN SUBDIVISION RESTRICTIONS

Page No: 1

Subdivision Sec : 01 Twp : 18S Rng : 34E UL : 1 Lot-Idn :

S Restn Restriction Description	Comm/Unit Name

PCS Land Under Purchase Contract S

E0043: Record found; Authority denied to MODIFY/ADD

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05 DELETE	PF06 CONFIRM
PF07 BKWD	PF08 FWD	PF09	PF10	PF11	PF12

Monte

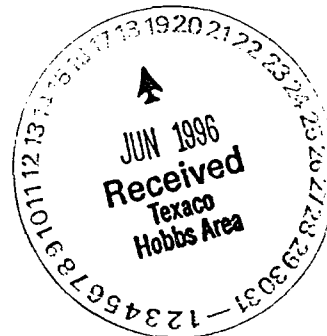


STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

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

June 11, 1996



Texaco Exploration and Production Inc.
c/o Campbell, Carr, Berge & Sheridan, P.A.
P. O. Box 2208
Santa Fe, New Mexico 87504-2208
Attention: William F. Carr

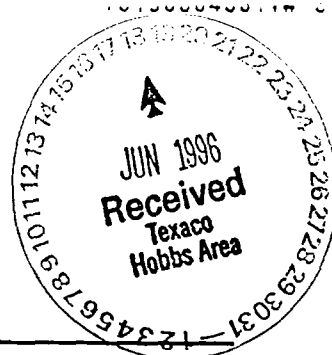
Administrative Order DD-149
Addendum to Division Order No. R-10603

Dear Mr. Carr:

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, Texaco Exploration and Production Inc. ("Texaco") made application to the New Mexico Oil Conservation Division on May 20, 1996 for authorization to directional drill its proposed Vacuum Grayburg San Andres Unit Well No. 159, Lea County, New Mexico.

The Division Director Finds That:

- (1) By Division Order No. R-10603, issued in Case 11527 and dated May 23, 1996, Texaco was granted the authority:
 - (a) to drill its Vacuum Grayburg San Andres Unit Well No. 159 as a Vacuum Grayburg San Andres Unit/Central Vacuum Unit "lease line" producing oil well to an "unorthodox bottomhole oil well location" 572 feet from the North line and 78 feet from the East line (Lot 1/Unit A) of Section 1, Township 18 South, Range 34 East, NMPM, Vacuum Grayburg San Andres Pool, Lea County, New Mexico; and,
 - (b) to simultaneously dedicate said well to the existing standard 40.36-acre oil spacing and proration unit comprising Lot 1 (NE/4 NE/4 equivalent) of said Section 1;



- (2) Both the Vacuum Grayburg San Andres and the Central Vacuum Units have active pressure maintenance operations under Division Order Nos. R-4442 and 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) and F(1), which provides for 40-acre oil spacing and proration units, or drilling units, located no closer than 330 feet to the outer boundary of the lease or unitized area (pressure maintenance/waterflood project area), nor closer than 10 feet to any quarter-quarter section line or subdivision inner boundary;
- { (3) Said Order No. R-10603 further provided that the drilling and operating costs, as well as production revenue from the No. 159 well be shared equally between the Vacuum Grayburg San Andres Unit and the Central Vacuum Unit since said well will serve to benefit both projects;
- (4) The surface area of the proposed well location dictates the necessity for deviating this well in a predetermined direction. The existence of roads, gathering lines, flow lines, pipelines, and tank production facilities requires the well to be located 907 feet from the North line and 350 feet from the East line of said Section 1;
- (5) As reference in said Order No. R-10603 the proposed bottom-hole location within the Vacuum-Grayburg-San Andres Pool, 572 feet from the North line and 78 feet from the East line of said Section 1, is necessary to complete an effective and efficient injection/production pattern for the current secondary recovery operations;
- (6) The "target or project area" for said directional drilling should be within a reasonable radius of the projected bottom-hole location of 572 feet from the North line and 78 feet from the East line; and,
- (7) It appearing the applicant has satisfied all of the appropriate requirements prescribed in said Rules 111.D and E and 104.C(1) and F(1), the subject application should be approved and the well should be governed by the provisions contained within this order and all other applicable provisions of Division General Rules 104 and 111.

IT IS THEREFORE ORDERED THAT:

- (1) Texaco Exploration and Production Inc. ("Texaco") is hereby authorized to drill its Vacuum Grayburg San Andres Unit Well No. 159 from a surface location 907 feet from the

Administrative Order DD-149

Texaco Exploration & Production Inc.

June 11, 1996

Page 3

North line and 350 feet from the East line (Lot 1/Unit A) of Section 1, Township 18 South, Range 34 East, NMPM, Lea County, New Mexico, kick-off to the northeast and directionally drill into the Vacuum-Grayburg-San Andres Pool as close as is reasonably possible to the targeted bottom-hole location of 572 feet from the North line and 78 feet from the East line of said Section 1.

PROVIDED HOWEVER THAT 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.

PROVIDED FURTHER THAT 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 bottom-hole location, as well as the wellbore's true depth and course, may be determined.

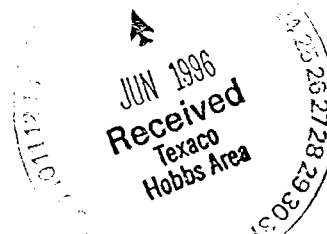
(2) The applicant shall notify the supervisor of the Hobbs District office of the Division of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Hobbs offices of the Division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

(3) The operator shall comply with all requirements and conditions set forth in Division General Rule 111.E(2) and any applicable requirements in 111.D and F and 104.C(1) and 104.F(2).

(4) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths.

(5) Division Order No. R-10603, issued in Case 11527 and dated May 23, 1996, shall remain in full force and effect until further notice.

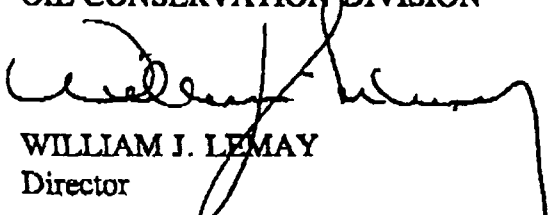
(6) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.



Administrative Order DD-149
Texaco Exploration & Production Inc.
June 11, 1996
Page 4

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

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


WILLIAM J. LEMAY
Director

SEAL

cc: Oil Conservation Division - Hobbs
New Mexico State Land Office - Santa Fe
File: Case 11527



DISTRICT I

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

DISTRICT II

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

DISTRICT III

1000 N. 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 Well Type 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 6/1/86

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 date 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

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

C Wade Howard (GWS)

Printed Name

C. Wade Howard

Title

Eng. Assistant

Date

5/21/96

Telephone

688-4606

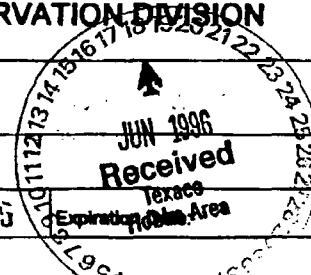
OIL CONSERVATION DIVISION

Approved By:

Title:

Approval Date: JUN 10 1996

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

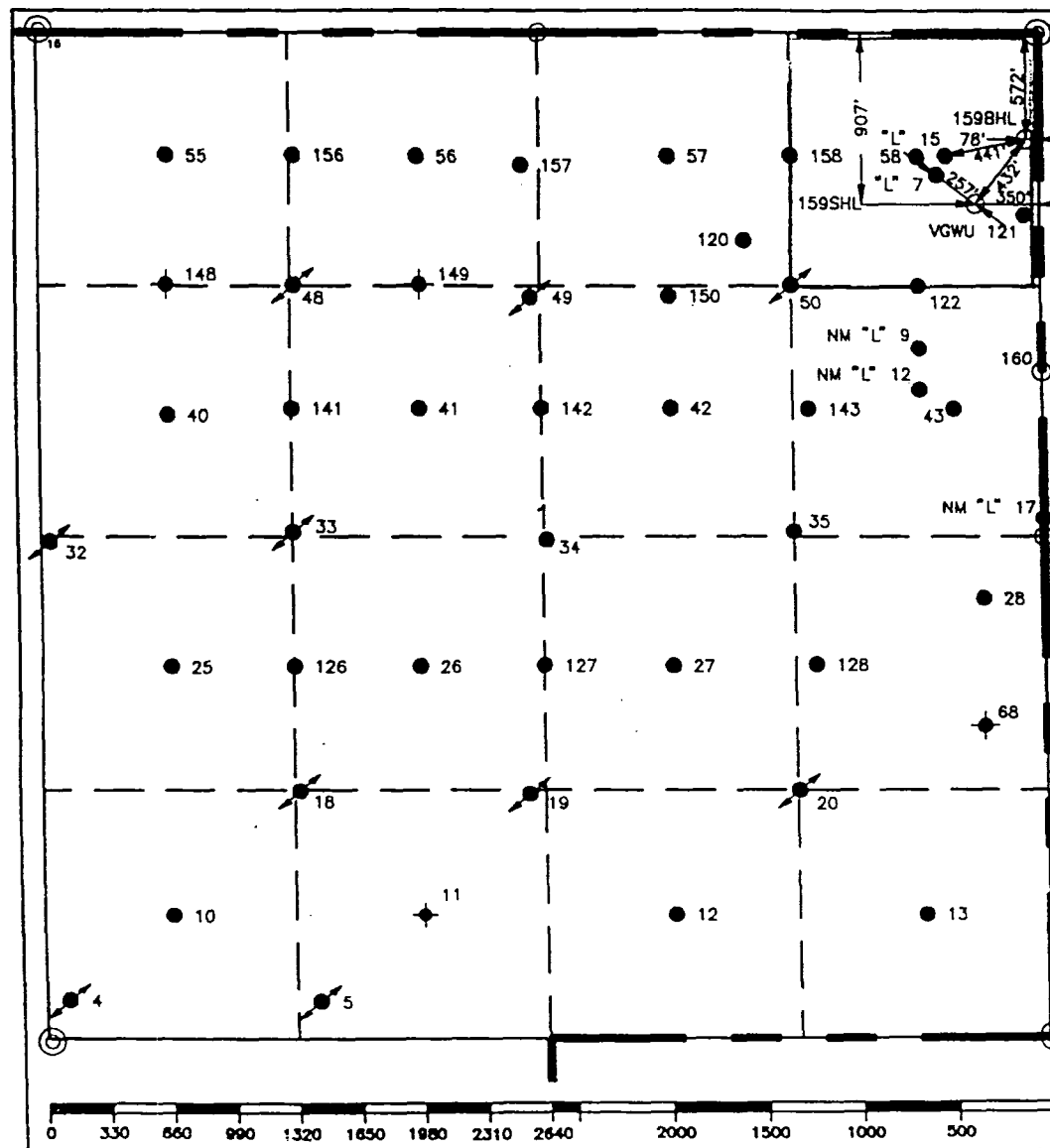
¹ API Number 30-025-33464		² Pool Code 62180		³ Pool Name Vacuum Grayburg San Andres	
⁴ Property Code 11124		⁵ Property Name Vacuum Grayburg San Andres Unit			⁶ Well Number 159
⁷ GRID No. 22351		⁸ Operator Name TEXACO EXPLORATION & PRODUCTION, INC.			⁹ Elevation 3985'

¹⁰ Surface Location									
UL or lot no.	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

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	1	18-S	34-E		572'	North	78'	East	Lea

¹² Dedicated Acres 40	¹³ Joint or Infill	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>C. Wade Howard</i>
Printed Name	C. Wade Howard
Position	Engineer's Assistant
Company	Texaco Expl. & Prod. Inc.
Date	November 29, 1995
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	November 17, 1995
Signature & Seal of Professional Surveyor	<i>John S. Piper</i>
Certificate No.	7254 John S. Piper
Sheet	

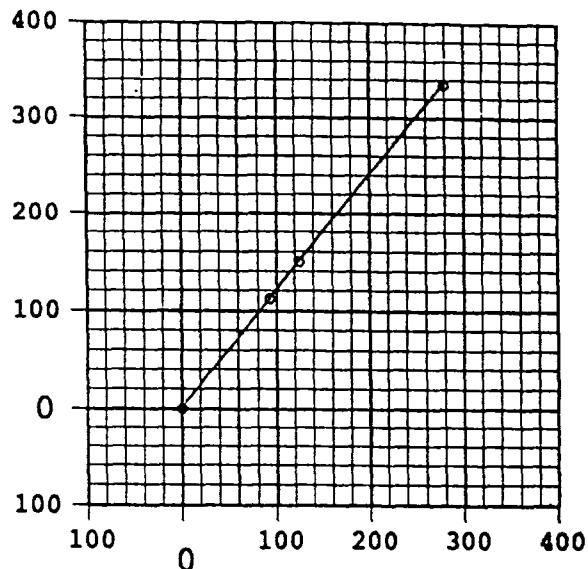
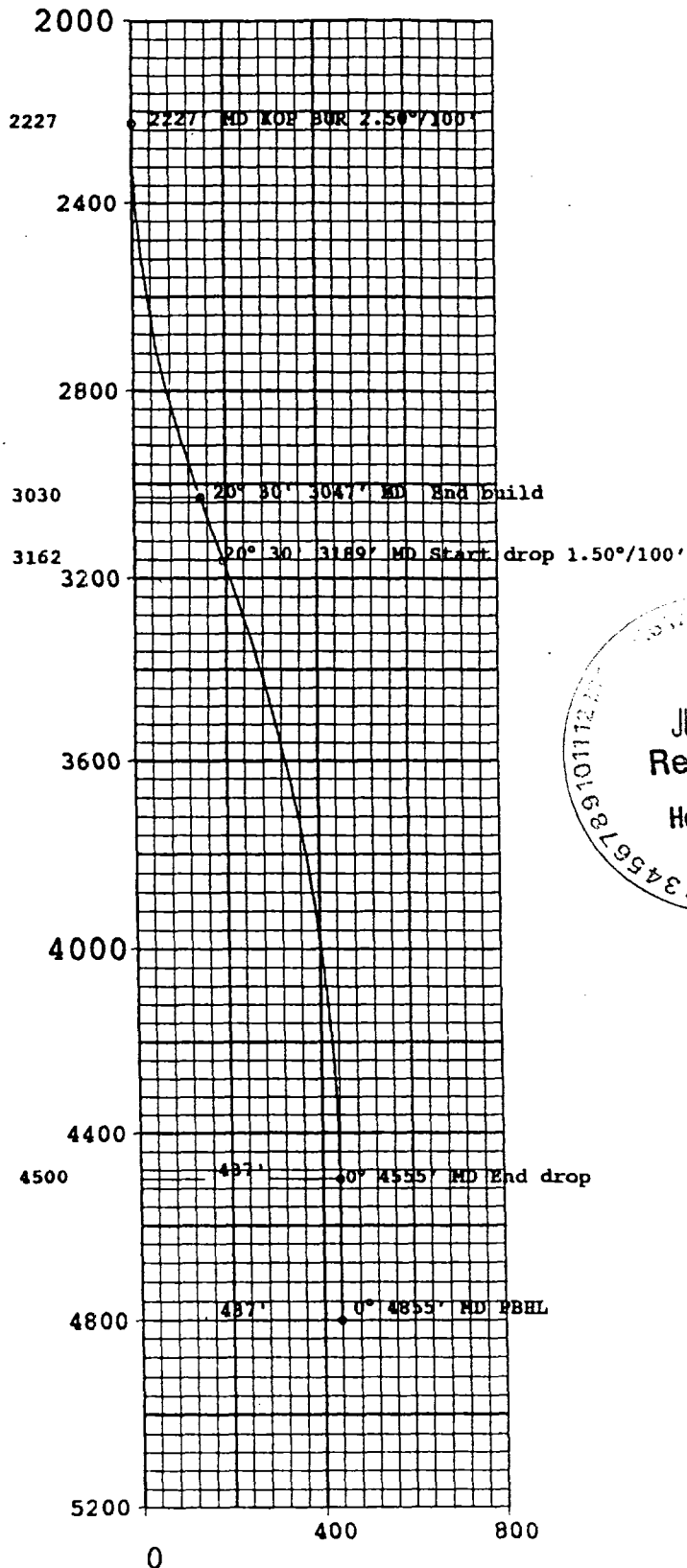
Texaco Exploration & Production, Inc.
~~Vacuum Survey Bore Southwales Unit~~
 Texaco Central Vacuum Unit, Well #159
 Section 1, Tp. 18S, Rge 34E - Lea County, New Mexico
 Directional Proposal

Plane of Proposal

N 39° 53'E

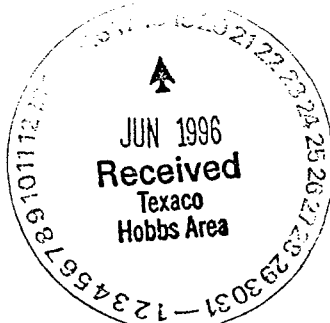
VERTICAL SECTION

Scale 1" = 400'



HORIZONTAL PLAN

Scale 1" = 200'



PDS

PERFORMANCE DRILLING SPECIALISTS, INC.

DATE: January 8, 1996
 DRAWN BY: Gary Long
 PREPARED FOR: Scott Elkington

Note:

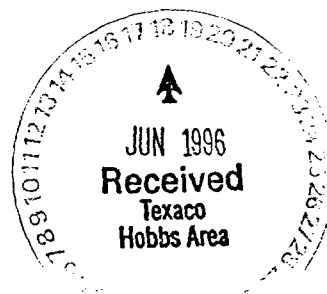
With motors, drilling a "S" curve will probably be the easiest way to stay within the 50' radius for the last 300'. End of curve has 141' tangent to establish drop rate in rotary mode.

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' FEL & 640' FEL
 SEC. 36 178-34E
 LEA COUNTY, NEW MEXICO

