



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

December 4, 1996

**Texaco Exploration and Production, Inc.**  
**P. O. Box 3109**  
**Midland, Texas 79702**  
**Attention: C. W. Howard**

*Administrative Order DD-160*

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 November 22, 1996 for authorization to directional drill its proposed Central Vacuum Unit Well No. 175, 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;
- (2) Under the provisions of said **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. 175 at a surface location 1617 feet from the South line and 1107 feet from the West line (Unit L) of



Section 31, Township 17 South, Range 35 East, NMPM, Vacuum Grayburg-San Andres Pool, Central Vacuum Unit Area, Lea County, New Mexico, drill vertically to an approximate depth of 2375 feet, kick-off in a northeasterly direction, and drill directionally to a targeted unorthodox bottomhole oil well location that is approximately 1930 feet from the South line and 1228 feet from the West line, also in Unit "L" of said Section 31.

- (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. 175 from a surface location 1617 feet from the South line and 1107 feet from the West line (Unit L) of Section 31, Township 17 South, Range 35 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 1930 feet from the South line and 1228 feet from the West line, also in Unit "L" of said Section 31.

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 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.

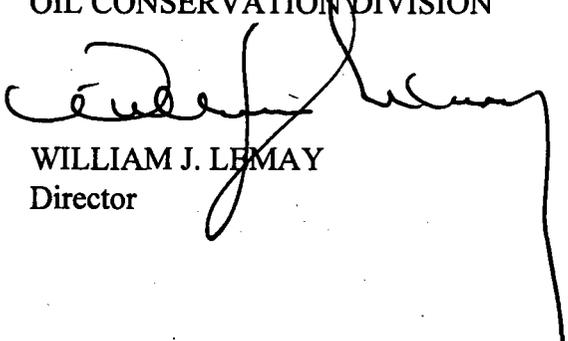
(3) The operator shall comply with all requirements and conditions set forth in Division General **Rule 111.E(2)** and any applicable and/or practical requirements in **111.D and F and 104.F(1)**.

(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 DIVISION



WILLIAM J. LEMAY  
Director

SEAL

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

DD-TEX.1

December 4, 1996

Rec: 12-25-96

Susp: NA

Released 12-4-96

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

**Attention: C. W. Howard**

Administrative Order DD-~~160~~ 160

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**The Division Director Finds That:**

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Andres Pool, Central Vacuum Unit Area, Lea County, New Mexico, drill vertically to an approximate depth of 2375 feet, kick-off in a northeasterly direction, and drill directionally to a targeted unorthodox bottomhole oil well location that is approximately 1930 feet from the South line and 1228 feet from the West line, also in Unit "L" of said Section 31.

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524  
Division may deem necessary.

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

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

WILLIAM J. LEMAY  
Director

S E A L

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



OIL CONSERVATION DIVISION

RECEIVED

Texaco Exploration  
and Production Inc

500 North Loraine  
Midland TX 79701

P O Box 3109  
Midland TX 79702

96 NOV 25 AM 8 52

November 22, 1996

GOV - STATE AND LOCAL GOVERNMENTS

Directional Drilling  
Central Vacuum Unit  
Well No. 175  
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 111 c.2 by administrative approval is requested for Texaco Exploration and Production Inc.'s Central Vacuum Unit Well No. 175.

This well must be directionally drilled because surface obstructions prevented staking it at the proposed bottom-hole location. It will be completed in the Grayburg San Andres formation and will be a producing well. Attached is a type log section, and our proposed directional plans. This well will be drilled to a TVD of 4800'.

There are no affected offset operators to this location. Attached is Form C-102 and a lease plat showing the location of the subject well.

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

Yours very truly,

C. W. Howard  
Adv. Technician

CWH:cwh cc: NMCD, Hobbs, NM

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

Form C-102  
Revised February 10, 1994

Instructions on back

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Submit to Appropriate District Office

State Lease-4 copies  
Fee Lease-3 copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

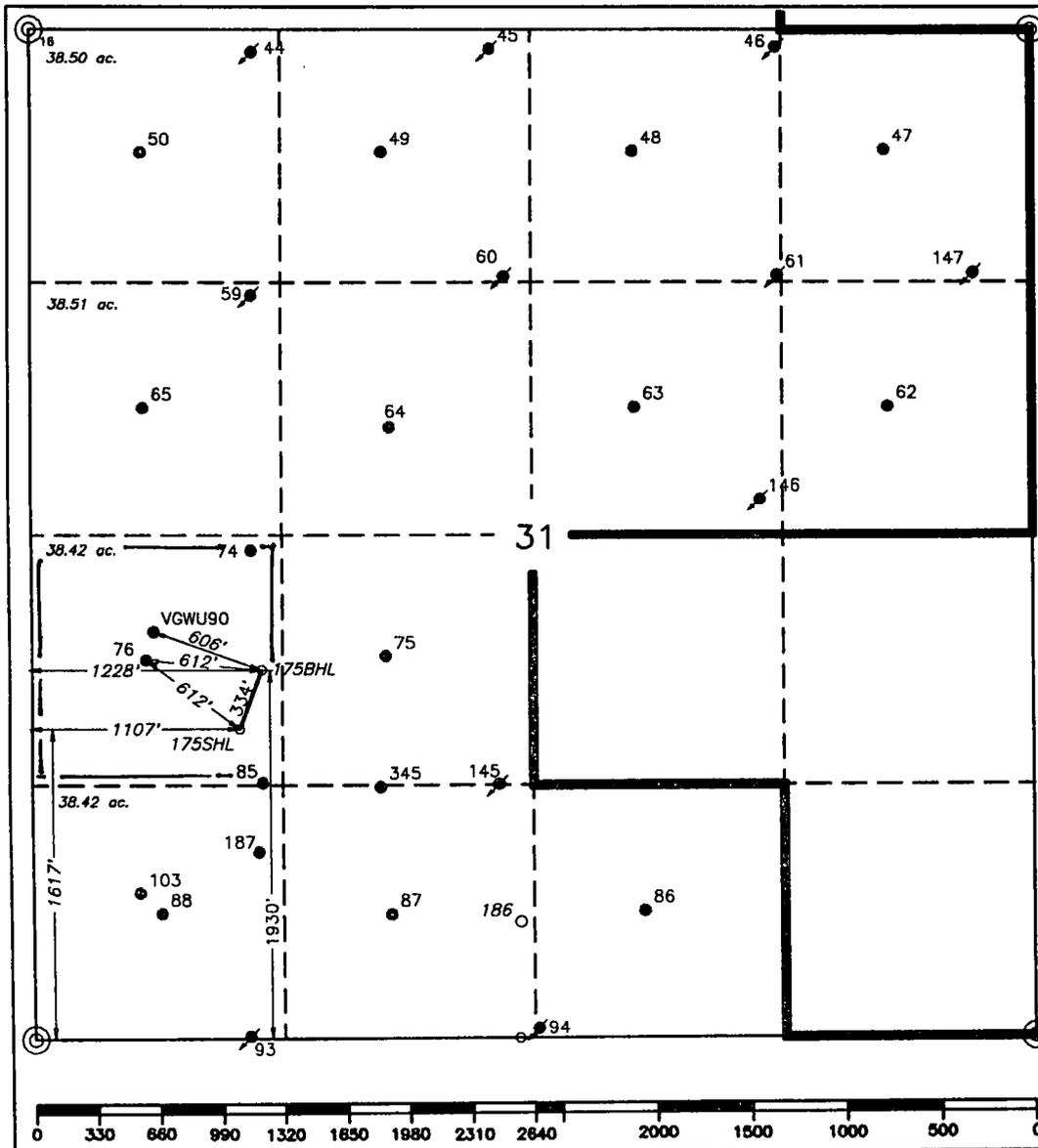
<sup>1</sup> API Number		<sup>2</sup> Pool Code 62180		<sup>3</sup> Pool Name Grayburg/San Andres	
<sup>4</sup> Property Code 11122		<sup>5</sup> Property Name Central Vacuum Unit			<sup>6</sup> Well Number 175
<sup>7</sup> OGRID No. 22351		<sup>8</sup> Operator Name TEXACO EXPLORATION & PRODUCTION, INC.			<sup>9</sup> Elevation 3983'

<sup>10</sup> Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	<sup>7</sup> County
L	31	17-S	35-E		1617'	South	1107'	West	Lea

<sup>11</sup> 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	<sup>7</sup> County
L	31	17-S	35-E		1930'	South	1228'	West	Lea

<sup>12</sup> Dedicated Acres 38.42	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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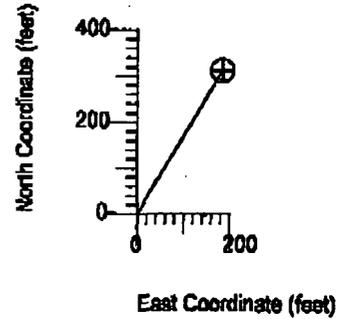
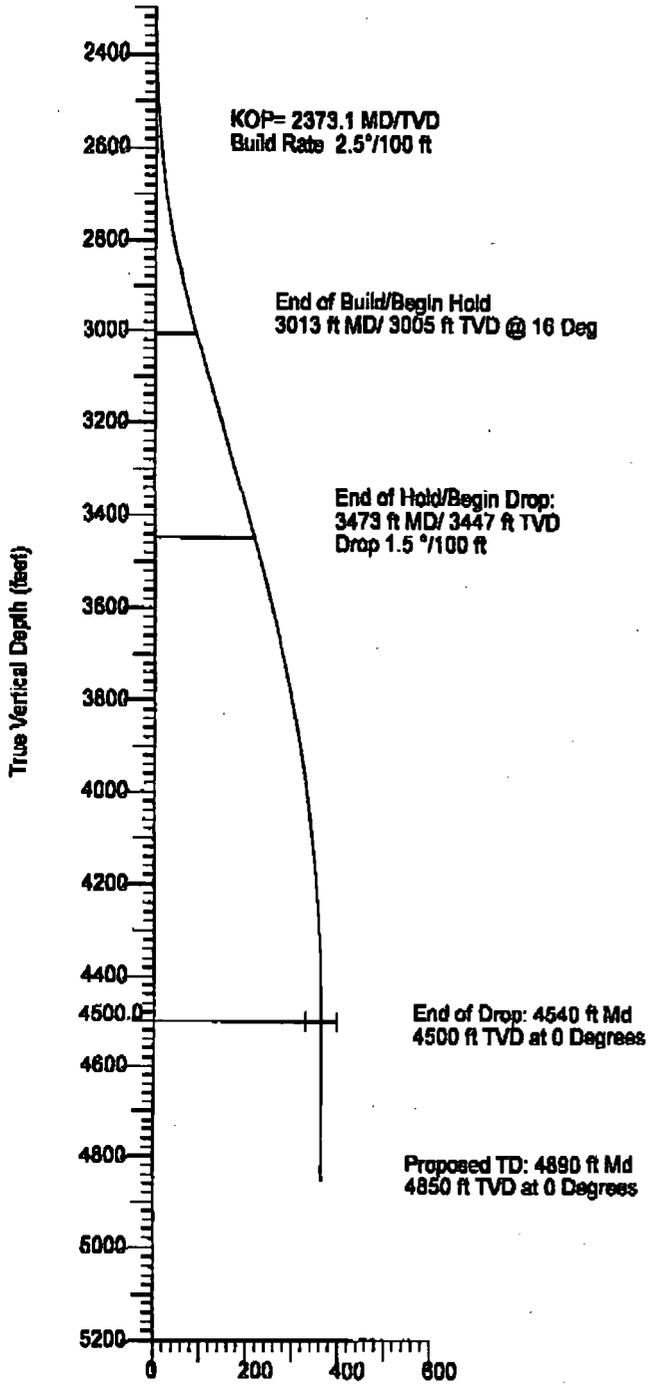
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION.



<sup>17</sup> 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 22, 1996
<sup>18</sup> 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 21, 1996
Signature & Seal of Professional Surveyor	<i>John S. Piper</i>
Certificate No.	7254 John S. Piper
Sheet	

○ = Staked Location ● = Producing Well ◆ = Injection Well ◊ = Water Supply Well ⊛ = Plugged & Abandon Well

**TEXACO EXPL & PROD**  
**CVU NO. 175**  
**LEA COUNTY, NEW MEXICO**  
**T17S , R35E, SECTION 31**



Vertical Section (feet)  
Plane of Vertical Section = 30.59°



# PHOENIX DRILLING SERVICES

## DIRECTIONAL WELLPLAN

COMPANY: TEXACO EXPL & PROD, INC.  
 WELL: CVU NO. 175  
 LOCATION: LEA COUNTY, NEW MEXICO

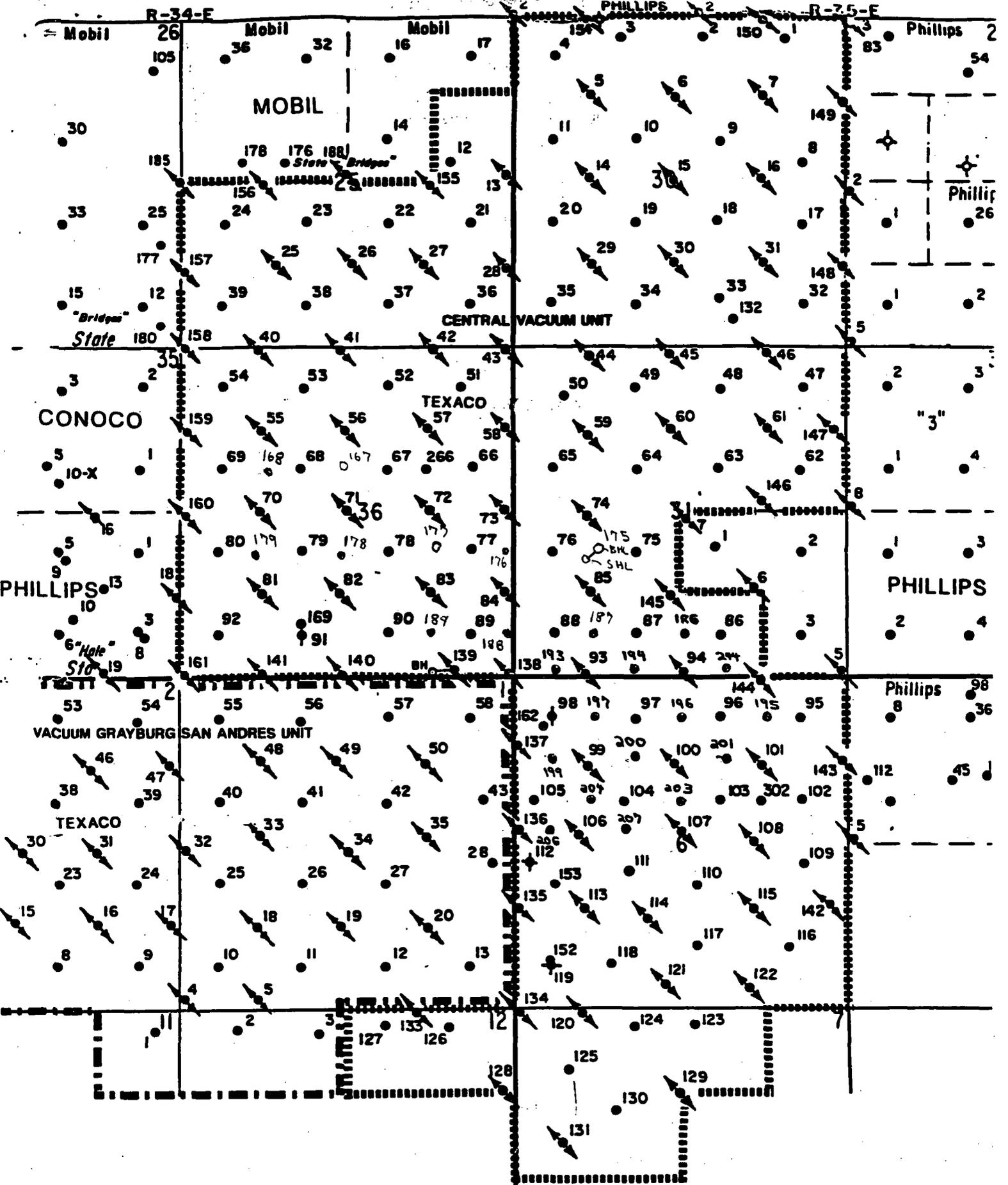
DATE: 11/22/96

### MINIMUM CURVATURE CALCULATIONS

### PROPOSED DIRECTION DEGREES AZIMUTH

30.59

SUR NO.	MD	INC	AZM	TVD	N-S	E-W	VERT SECT	DLS/100
KOP	2373.1	0.00	30.59	2373.1	0.0	0.0	0.0	0.0
1	2400.0	0.67	30.59	2400.0	0.1	0.1	0.2	2.5
2	2500.0	3.17	30.59	2499.9	3.0	1.8	3.5	2.5
3	2600.0	5.67	30.59	2599.6	9.7	5.7	11.2	2.5
4	2700.0	8.17	30.59	2698.9	20.0	11.8	23.3	2.5
5	2800.0	10.67	30.59	2797.5	34.1	20.2	39.6	2.5
6	2900.0	13.17	30.59	2895.4	51.9	30.7	60.3	2.5
7	3000.0	15.67	30.59	2992.2	73.3	43.3	85.2	2.5
8	3013.1	16.00	30.59	3004.8	76.4	45.2	88.8	2.5
9	3100.0	16.00	30.59	3088.4	97.0	57.4	112.7	0.0
10	3200.0	16.00	30.59	3184.5	120.8	71.4	140.3	0.0
11	3300.0	16.00	30.59	3280.6	144.5	85.4	167.8	0.0
12	3400.0	16.00	30.59	3376.7	168.2	99.4	195.4	0.0
13	3473.3	16.00	30.59	3447.2	185.6	109.7	215.6	0.0
14	3500.0	15.60	30.59	3472.9	191.9	113.4	222.9	1.5
15	3600.0	14.10	30.59	3569.5	213.9	126.5	248.5	1.5
16	3700.0	12.60	30.59	3666.8	233.8	138.2	271.6	1.5
17	3800.0	11.10	30.59	3764.7	251.5	148.7	292.1	1.5
18	3900.0	9.60	30.59	3863.1	266.9	157.8	310.1	1.5
19	4000.0	8.10	30.59	3961.9	280.2	165.6	325.5	1.5
20	4100.0	6.60	30.59	4061.1	291.2	172.1	338.3	1.5
21	4200.0	5.10	30.59	4160.5	300.0	177.3	348.5	1.5
22	4300.0	3.60	30.59	4260.2	306.5	181.2	356.0	1.5
23	4400.0	2.10	30.59	4360.1	310.8	183.7	361.0	1.5
24	4539.9	0.00	30.59	4500.0	313.0	185.0	363.6	1.5
25	4600.0	0.00	30.59	4560.1	313.0	185.0	363.6	0.0
26	4700.0	0.00	30.59	4660.1	313.0	185.0	363.6	0.0
27	4800.0	0.00	30.59	4760.1	313.0	185.0	363.6	0.0
28	4889.9	0.00	30.59	4850.0	313.0	185.0	363.6	0.0



- PROPOSED WELL
- PRODUCING WELL
- ⚡ INJECTION WELL
- ◆ SHUT-IN WELL

TEXACO  
 CENTRAL VACUUM UNIT  
 VACUUM G-SA FIELD  
 LEA COUNTY, NEW MEXICO

TYPE LOG

VACUUM CRATERING SAN ANDRES FIELD

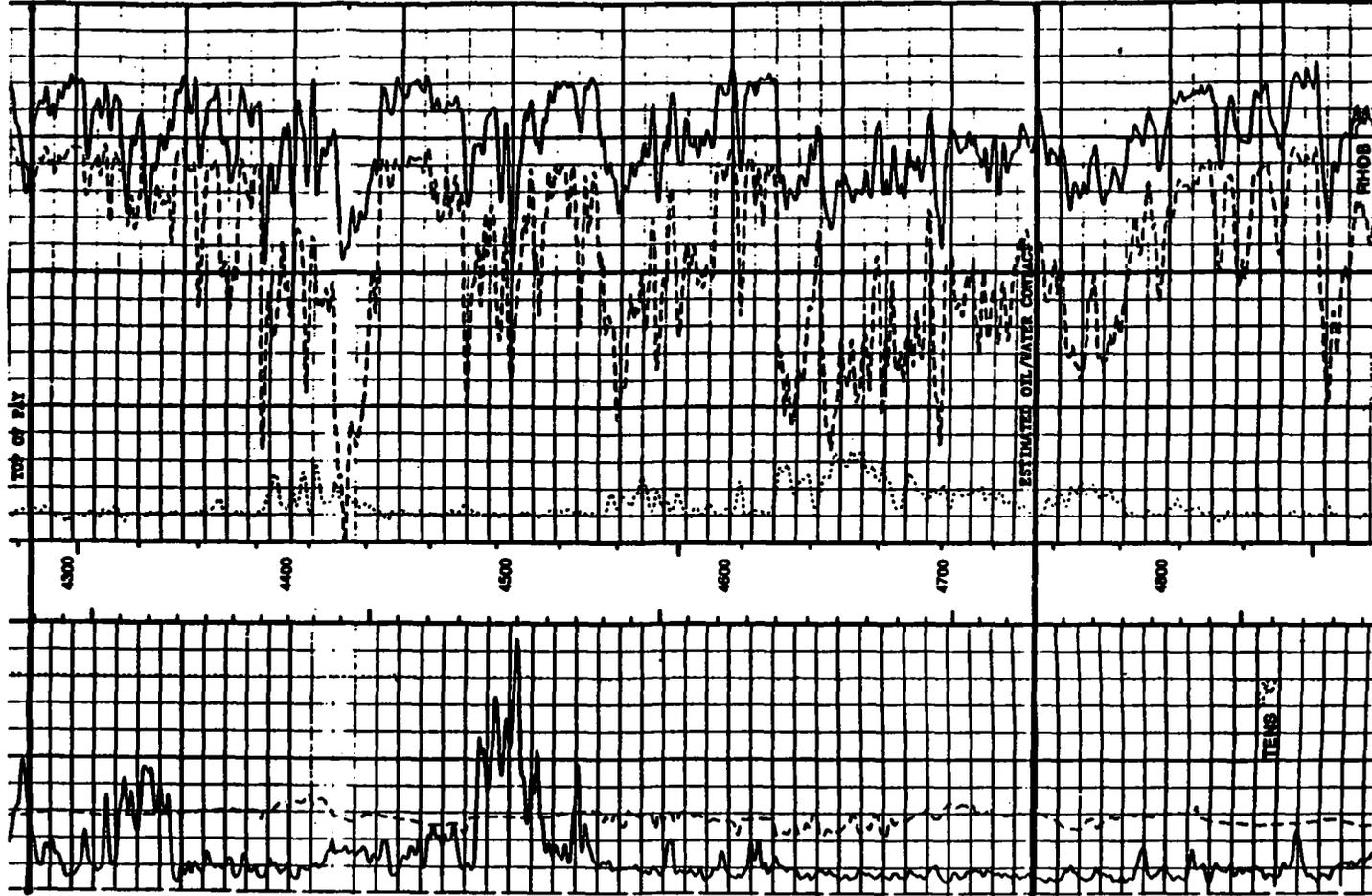
TEHUACO MAP INC.

VACUUM 36 SEVENTH COR #1

2310' PRL & 660' TFL

SEC. 24 17N-34E

LAMA COUNTY, NEW MEXICO





Texaco Exploration  
and Production Inc

500 North Loraine  
Midland TX 79701

P O Box 3109  
Midland TX 79702

November 22, 1996

GOV - STATE AND LOCAL GOVERNMENTS

Directional Drilling  
Central Vacuum Unit  
Well No. 175  
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

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C. W. Howard  
Adv. Technician

CWH:cwh cc: NMOCD, Hobbs, NM

DISTRICT 1  
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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-102  
Revised February 10, 1994

Instructions on back

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Submit to Appropriate District Office

State Lease-4 copies  
Fee Lease-3 copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

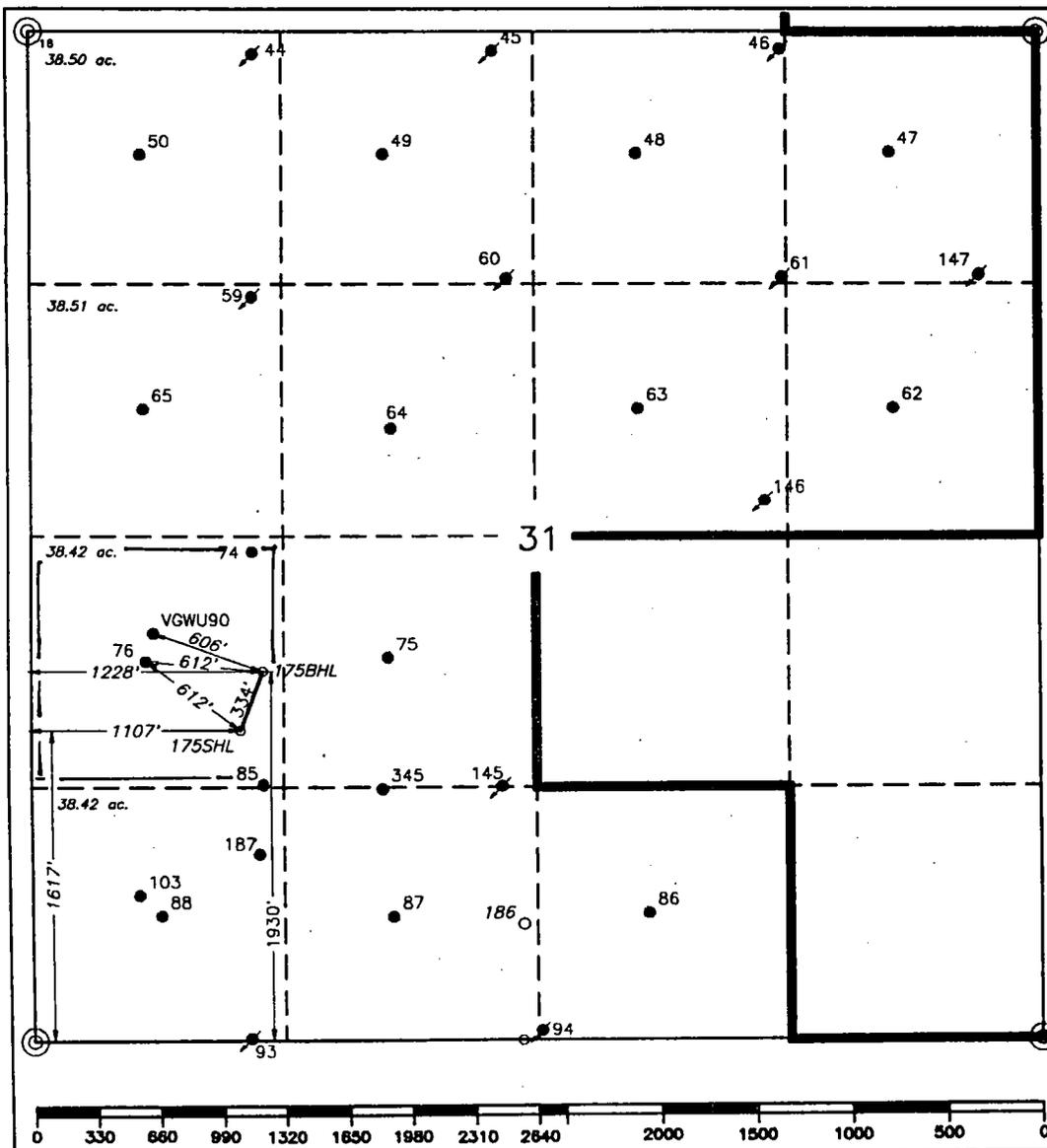
<sup>1</sup> API Number		<sup>2</sup> Pool Code 62180		<sup>3</sup> Pool Name Grayburg/San Andres	
<sup>4</sup> Property Code 11122		<sup>5</sup> Property Name Central Vacuum Unit			<sup>6</sup> Well Number 175
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I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature: *C. Wade Howard*

Printed Name: **C. Wade Howard**

Position: **Engineer's Assistant**

Company: **Texaco Expl. & Prod. Inc.**

Date: **November 22, 1996**

---

**<sup>16</sup> 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 21, 1996**

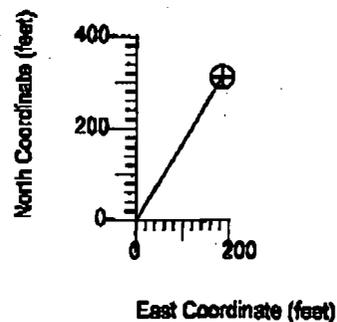
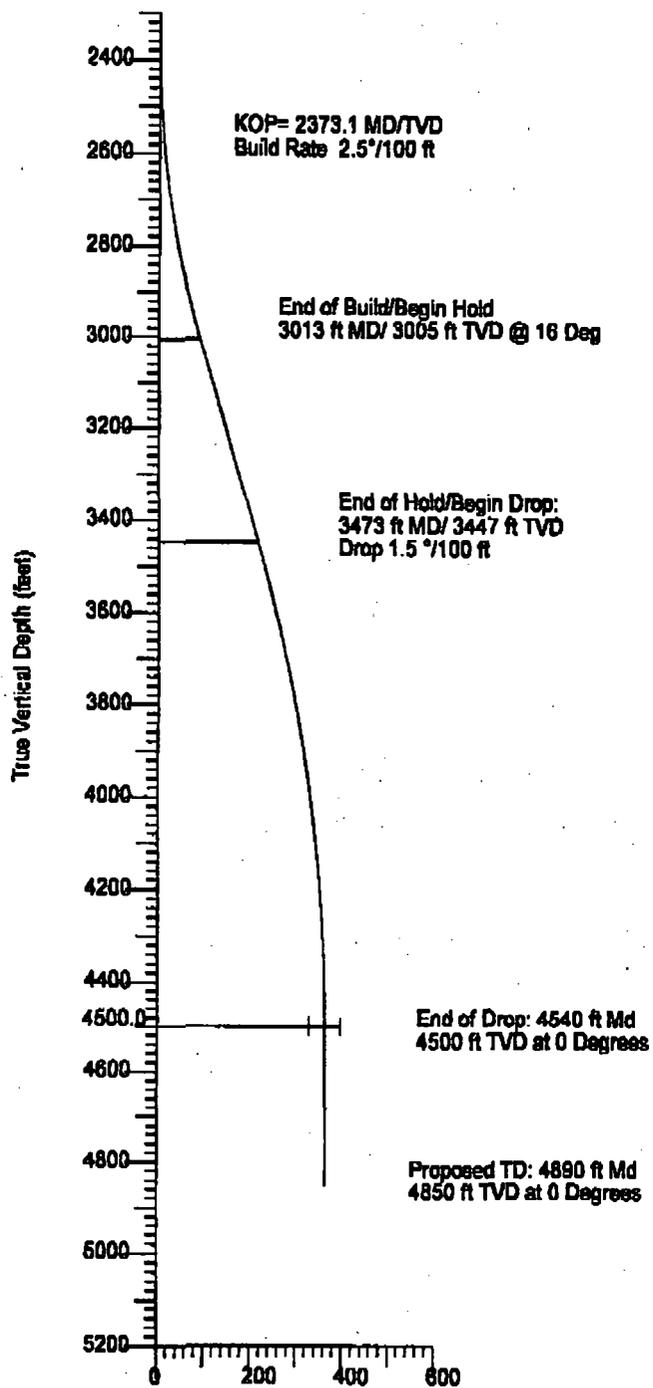
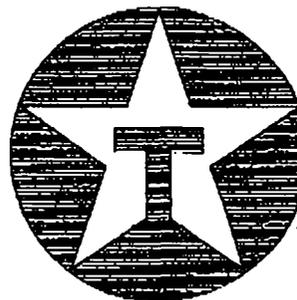
Signature & Seal of Professional Surveyor: *John S. Piper*

Certificate No.: **7254 John S. Piper**

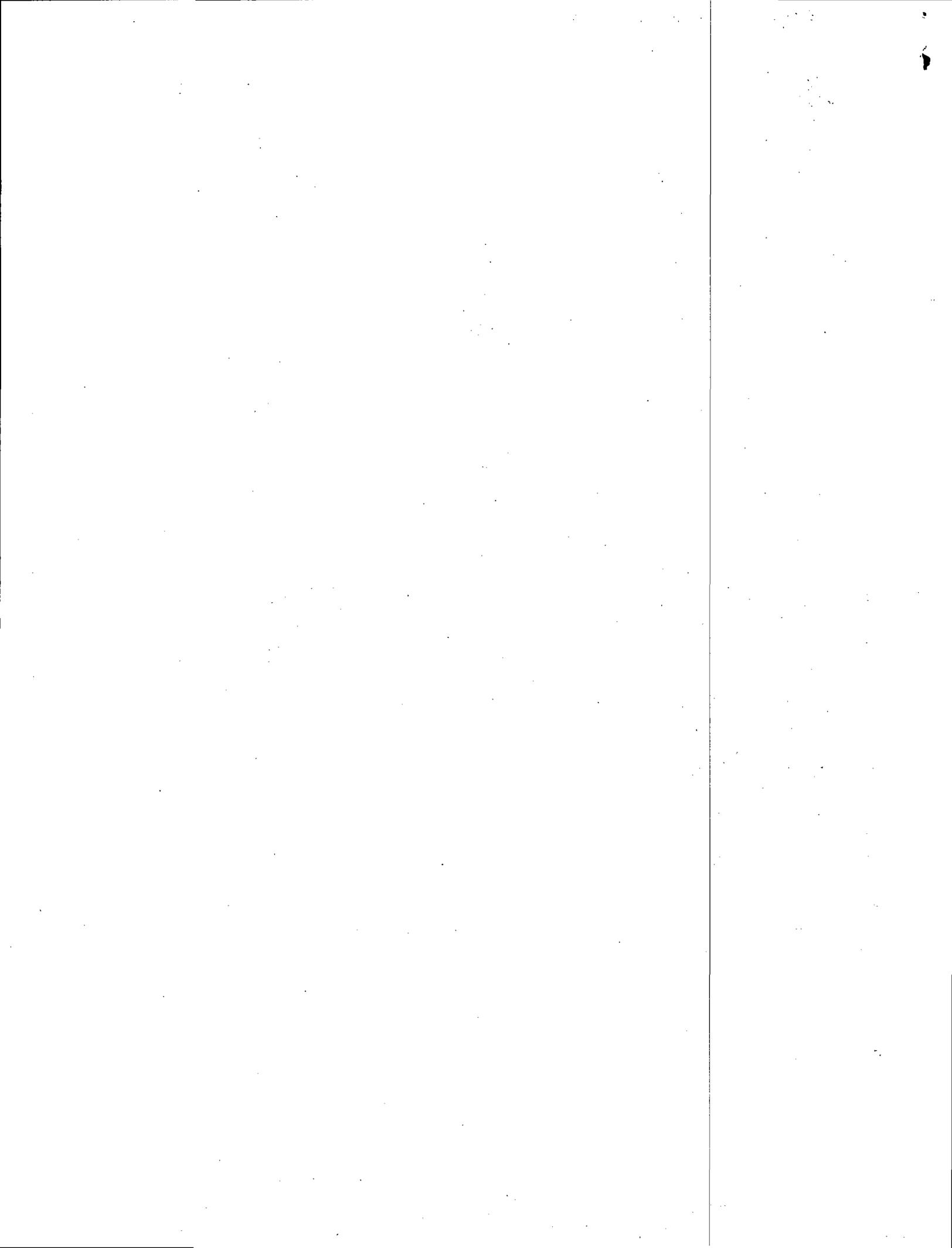
Sheet

○ = Staked Location ● = Producing Well ● = Injection Well <x> = Water Supply Well ◆ = Plugged & Abandon Well

TEXACO EXPL & PROD  
CVU NO. 175  
LEA COUNTY, NEW MEXICO  
T17S, R35E, SECTION 31



Vertical Section (feet)  
Plane of Vertical Section = 30.58°





# PHOENIX DRILLING SERVICES

## DIRECTIONAL WELLPLAN

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 WELL: CVU NO. 175  
 LOCATION: LEA COUNTY, NEW MEXICO

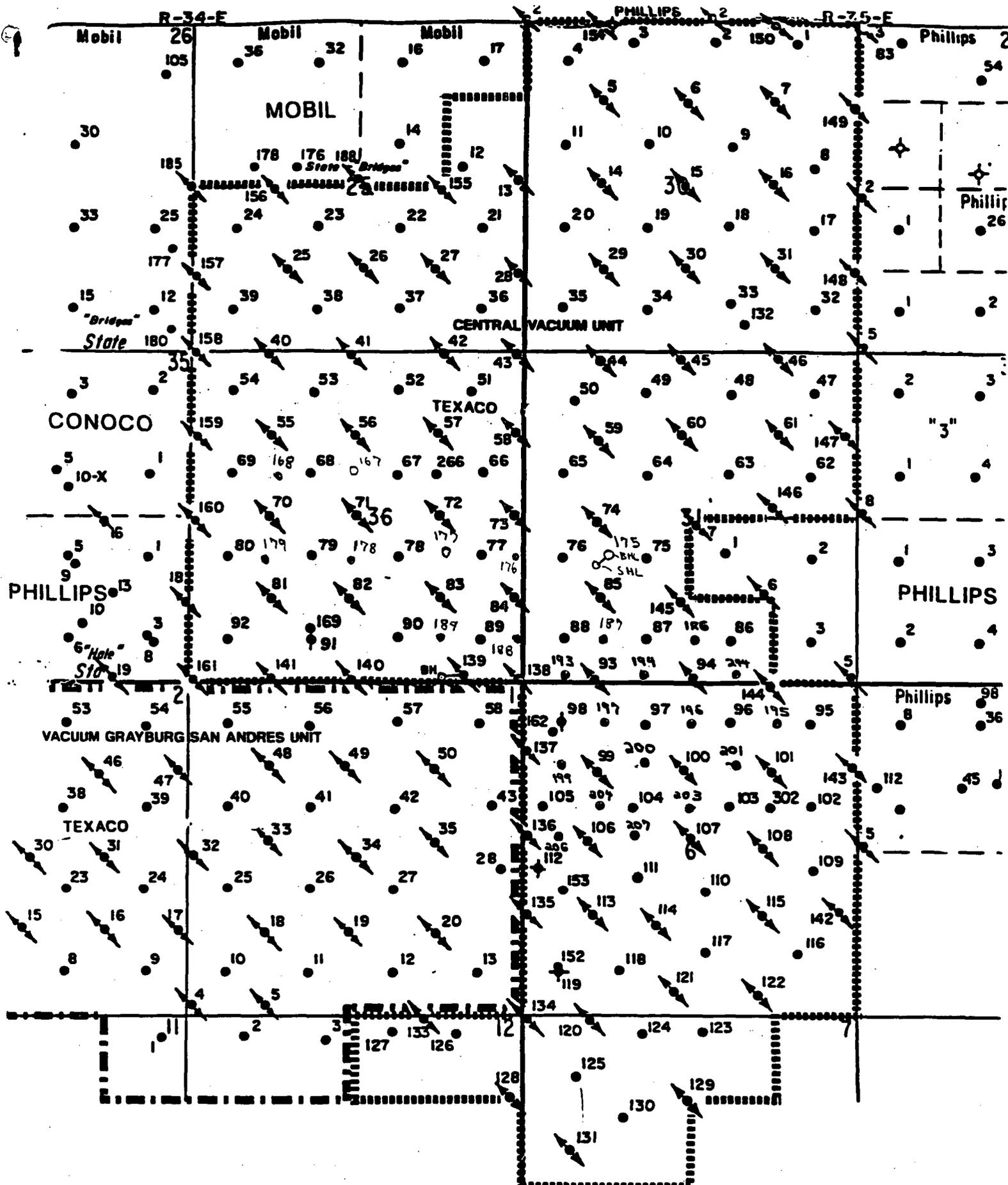
DATE: 11/22/96

**MINIMUM CURVATURE CALCULATIONS**

**PROPOSED DIRECTION  
DEGREES AZIMUTH**

**30.59**

SUR NO.	MD	INC	AZM	TVD	N-S	E-W	VERT SECT	DLS/100
KOP	2373.1	0.00	30.59	2373.1	0.0	0.0	0.0	0.0
1	2400.0	0.67	30.59	2400.0	0.1	0.1	0.2	2.5
2	2500.0	3.17	30.59	2499.9	3.0	1.8	3.5	2.5
3	2600.0	5.67	30.59	2599.6	9.7	5.7	11.2	2.5
4	2700.0	8.17	30.59	2698.9	20.0	11.8	23.3	2.5
5	2800.0	10.67	30.59	2797.5	34.1	20.2	39.6	2.5
6	2900.0	13.17	30.59	2895.4	51.9	30.7	60.3	2.5
7	3000.0	15.67	30.59	2992.2	73.3	43.3	85.2	2.5
8	3013.1	16.00	30.59	3004.8	78.4	45.2	88.8	2.5
9	3100.0	16.00	30.59	3088.4	97.0	57.4	112.7	0.0
10	3200.0	16.00	30.59	3184.5	120.8	71.4	140.3	0.0
11	3300.0	16.00	30.59	3280.6	144.5	85.4	167.8	0.0
12	3400.0	16.00	30.59	3376.7	168.2	99.4	195.4	0.0
13	3473.3	16.00	30.59	3447.2	186.6	109.7	215.6	0.0
14	3500.0	15.60	30.59	3472.9	191.9	113.4	222.9	1.5
15	3600.0	14.10	30.59	3569.5	213.9	126.5	248.5	1.5
16	3700.0	12.60	30.59	3666.8	233.8	138.2	271.6	1.5
17	3800.0	11.10	30.59	3764.7	251.5	148.7	292.1	1.5
18	3900.0	9.60	30.59	3863.1	266.9	157.8	310.1	1.5
19	4000.0	8.10	30.59	3961.9	280.2	165.6	325.5	1.5
20	4100.0	6.60	30.59	4061.1	291.2	172.1	338.3	1.5
21	4200.0	5.10	30.59	4160.5	300.0	177.3	348.5	1.5
22	4300.0	3.60	30.59	4260.2	306.5	181.2	356.0	1.5
23	4400.0	2.10	30.59	4360.1	310.8	183.7	361.0	1.5
24	4539.9	0.00	30.59	4500.0	313.0	185.0	363.6	1.5
25	4600.0	0.00	30.59	4560.1	313.0	185.0	363.6	0.0
26	4700.0	0.00	30.59	4660.1	313.0	185.0	363.6	0.0
27	4800.0	0.00	30.59	4760.1	313.0	185.0	363.6	0.0
28	4889.9	0.00	30.59	4850.0	313.0	185.0	363.6	0.0



- PROPOSED WELL
- PRODUCING WELL
- ⚡ INJECTION WELL
- ◆ SHUT-IN WELL

**TEXACO**  
**CENTRAL VACUUM UNIT**  
**VACUUM G-SA FIELD**  
**LEA COUNTY, NEW MEXICO**

TYPE LOG

VACUUM CRATING SAN ANTONIO FIELD

TRINACO REP INC.

VACUUM 36 STAKE COR #1

2310' PVL 6 640' PVL

SEC. 34 177-343

LEA COUNTY, NEW MEXICO

