

WELLS WITHIN AREA OF REVIEW  
(1/2 MILE RADIUS)

OPERATOR: Phillips Petroleum Company  
LEASE NAME: M. E. Hale No. 4  
FIELD NAME: Vacuum Grayburg (San Andres)  
LOCATION OF WELL: 1980' FSL, 660' FEL, Section 35, T-17-S,  
R-34-E, Lea County, New Mexico

TYPE OF LEASE: State  
WELL STATUS: Pumping - Oil  
PRODUCING FORMATION: San Andres  
SPUD DATE: 12-20-37                      COMPLETION DATE: 1-29-38  
TOTAL DEPTH: 4500'                      PLUG BACK DEPTH: ---

CASING RECORD:

<u>SIZE</u>	<u>WEIGHT</u>	<u>DEPTH</u>	<u>CEMENTING RECORD &amp; TOP OF CEMENT</u>
13-3/8"	38	250'	200 sacks
9-5/8"	36	1572'	250 sacks
7"	24	4289'	400 sacks

PERFORATIONS AND TREATMENT:

<u>INTERVAL</u>	<u>TREATMENT</u>
4289'-4500'	None

POTENTIAL TEST:

<u>DATE</u>	<u>PRODUCTION</u>
1-29-38	1032 Oil

WELLS WITHIN AREA OF REVIEW  
(1/2 MILE RADIUS)

OPERATOR: TEXACO Inc.

LEASE NAME: Vacuum Grayburg San Andres Unit No. 36

FIELD NAME: Vacuum Grayburg (San Andres)

LOCATION OF WELL: 660' FNL, 660' FEL, Section 2, T-18-S  
R-34-E, Lea County, New Mexico

TYPE OF LEASE: State

WELL STATUS: Pumping - Oil

PRODUCING FORMATION: San Andres

SPUD DATE: 9-29-40

COMPLETION DATE: 10-26-40

TOTAL DEPTH: 4710'

PLUG BACK DEPTH: --

CASING RECORD:

<u>SIZE</u>	<u>WEIGHT</u>	<u>DEPTH</u>	<u>CEMENTING RECORD &amp; TOP OF CEMENT</u>
8-5/8"	32	1690'	300 sacks (Circ)
5-1/2"	17	4079'	200 sacks 850'

PERFORATIONS AND TREATMENT:

<u>INTERVAL</u>	<u>TREATMENT</u>
4079'-4710'	None

POTENTIAL TEST:

<u>DATE</u>	<u>PRODUCTION</u>
10-26-40	750 Oil

WELLS WITHIN AREA OF REVIEW  
(1/2 MILE RADIUS)

OPERATOR: TEXACO Inc.

LEASE NAME: Vacuum Grayburg San Andres Unit No. 44

FIELD NAME: Vacuum Grayburg (San Andres)

LOCATION OF WELL: 1330'FNL & 1330' FWL, Section 2, T-18-S  
R-34-E, Lea County, New Mexico

TYPE OF LEASE: State

WELL STATUS: Injection - Active

PRODUCING FORMATION: San Andres

SPUD DATE: 3-3-73

COMPLETION DATE: 3-22-73

TOTAL DEPTH: 4800'

PLUG BACK DEPTH: 4788'

CASING RECORD:

<u>SIZE</u>	<u>WEIGHT</u>	<u>DEPTH</u>	<u>CEMENTING RECORD &amp; TOP OF CEMENT</u>
8-5/8"	20	356'	300 sacks - Circ
5-1/2"	14	4800'	500 sacks - 1900'

PERFORATIONS AND TREATMENT:

<u>INTERVAL</u>	<u>TREATMENT</u>
4443'-4732'	Acid w/8000 gallons

POTENTIAL TEST:

<u>DATE</u>	<u>PRODUCTION</u>
3-22-73	59 Oil; 2269 GOR

WELLS WITHIN AREA OF REVIEW  
(1/2 MILE RADIUS)

OPERATOR: Texaco Inc.

LEASE NAME: Vacuum Grayburg San Andres Unit No. 51

FIELD NAME: Vacuum Grayburg San Andres

LOCATION OF WELL: 660' FNL, 660' FWL, Section 2, T-18-S, R-34-E,  
Lea County, New Mexico

TYPE OF LEASE: State

WELL STATUS: Pumping - Oil

PRODUCING FORMATION: San Andres

SPUD DATE: 4-24-39

COMPLETION DATE: 5-29-39

TOTAL DEPTH: 4700'

PLUG BACK DEPTH: ---

CASING RECORD:

<u>SIZE</u>	<u>WEIGHT</u>	<u>DEPTH</u>	<u>CEMENTING RECORD &amp; TOP OF CEMENT</u>
7-5/8"	26.40	1605'	250 sacks (Circ)
5-1/2"	17	4251'	200 sacks (Circ)

PERFORATIONS AND TREATMENT:

<u>INTERVAL</u>	<u>TREATMENT</u>
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4251' - 4700'	---
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POTENTIAL TEST:

<u>DATE</u>	<u>PRODUCTION</u>
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5-29-39	236 Oil; 605 GOR
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WELLS WITHIN AREA OF REVIEW  
(1/2 MILE RADIUS)

OPERATOR: Texaco Inc.

LEASE NAME: Vacuum Grayburg San Andres Unit No. 52

FIELD NAME: Vacuum Grayburg San Andres

LOCATION OF WELL: 660' FNL, 1980' FWL, Section 2, T-18-S, R-34-E  
Lea County, New Mexico

TYPE OF LEASE: State

WELL STATUS: Pumping - Oil

PRODUCING FORMATION: San Andres

SPUD DATE: 8-7-39

COMPLETION DATE: 9-11-39

TOTAL DEPTH: 4700'

PLUG BACK DEPTH: 4696'

CASING RECORD:

<u>SIZE</u>	<u>WEIGHT</u>	<u>DEPTH</u>	<u>CEMENTING RECORD &amp; TOP OF CEMENT</u>
7-5/8"	26.4	1628'	350 sack (Circ)
5-1/2"	17	4189'	200 sack 2278'

PERFORATIONS AND TREATMENT:

<u>INTERVAL</u>	<u>TREATMENT</u>
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4189' - 4696'	---
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POTENTIAL TEST:

<u>DATE</u>	<u>PRODUCTION</u>
9-11-39	192 Oil; 558 GOR

WELLS WITHIN AREA OF REVIEW  
(1/2 MILE RADIUS)

OPERATOR: Texaco Inc.

LEASE NAME: Vacuum Grayburg San Andres Unit No. 59

FIELD NAME: Vacuum Grayburg San Andres

LOCATION OF WELL: 40' FWL, 2500' FNL, Section 2, T-18-S, R-34-E,  
Lea County, New Mexico

TYPE OF LEASE: State

WELL STATUS: Injection - Active

PRODUCING FORMATION: San Andres

SPUD DATE: 3-25-79

COMPLETION DATE: 4-3-79

TOTAL DEPTH: 4800'

PLUG BACK DEPTH: 4768'

CASING RECORD:

<u>SIZE</u>	<u>WEIGHT</u>	<u>DEPTH</u>	<u>CEMENTING RECORD &amp; TOP OF CEMENT</u>
13-3/8"	54.5	365'	200 sack (Circ)
9-5/8"	32	1500'	700 sack (Circ)
7"	10.5	4800'	2700 sack (Circ)

PERFORATIONS AND TREATMENT:

<u>INTERVAL</u>	<u>TREATMENT</u>
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4647' - 4762'	---
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POTENTIAL TEST:

<u>DATE</u>	<u>PRODUCTION</u>
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WELLS WITHIN AREA OF REVIEW  
(1/2 MILE RADIUS)

OPERATOR: Texaco Inc.

LEASE NAME: Vacuum Grayburg San Andres Unit No. 60

FIELD NAME: Vacuum Grayburg San Andres

LOCATION OF WELL: 40' FWL, 1320' FNL, Section 2, T-18-S, R-34-E,  
Lea County, New Mexico

TYPE OF LEASE: State

WELL STATUS: Injection - Active

PRODUCING FORMATION: San Andres

SPUD DATE: 4-3-79

COMPLETION DATE: 4-25-79

TOTAL DEPTH: 4800'

PLUG BACK DEPTH: 4763'

CASING RECORD:

<u>SIZE</u>	<u>WEIGHT</u>	<u>DEPTH</u>	<u>CEMENTING RECORD &amp; TOP OF CEMENT</u>
13-3/8"	48	355'	400 sack (Circ)
9-5/8"	32.3	1650'	900 sack (Circ)
4-1/2"	10.5	4800'	1700 sack (Circ)

PERFORATIONS AND TREATMENT:

<u>INTERVAL</u>	<u>TREATMENT</u>
4597' - 4720'	Acid w/7500 gal

POTENTIAL TEST:

<u>DATE</u>	<u>PRODUCTION</u>
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WELLS WITHIN AREA OF REVIEW  
(1/2 MILE RADIUS)

OPERATOR: Texaco Inc.

LEASE NAME: Vacuum Grayburg San Andres Unit No. 62

FIELD NAME: Vacuum Grayburg San Andres

LOCATION OF WELL: 65' FNL, 1330' FWL, Section 2, T-18-S,R-34-E,  
Lea County, New Mexico

TYPE OF LEASE: State

WELL STATUS: Shut-in - Injection

PRODUCING FORMATION: San Andres

SPUD DATE: 11-30-82

COMPLETION DATE: 12-23-82

TOTAL DEPTH: 4800'

PLUG BACK DEPTH: 4783'

CASING RECORD:

<u>SIZE</u>	<u>WEIGHT</u>	<u>DEPTH</u>	<u>CEMENTING RECORD &amp; TOP OF CEMENT</u>
16"	65	375'	550 sack (Circ)
11-3/4"	42	1615'	750 sack (Circ)
5-1/2"	15.5	4800'	2000 sack (Circ)

PERFORATIONS AND TREATMENT:

<u>INTERVAL</u>	<u>TREATMENT</u>
4516' - 4755'	Acid w/5500 gal & 88 Ball Sealers

POTENTIAL TEST:

<u>DATE</u>	<u>PRODUCTION</u>
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WELLS WITHIN AREA OF REVIEW  
(1/2 MILE RADIUS)

OPERATOR: Texaco Inc.

LEASE NAME: Vacuum Grayburg San Andres Unit No. 63

FIELD NAME: Vacuum Grayburg San Andres

LOCATION OF WELL: 50' FNL, 2630' FEL, Section 2, T-18-S, R-34-E,  
Lea County

TYPE OF LEASE: State

WELL STATUS: Shut-in Injection

PRODUCING FORMATION: San Andres

SPUD DATE: 12-3-82

COMPLETION DATE: 12-21-82

TOTAL DEPTH: 4800'

PLUG BACK DEPTH: 4744'

CASING RECORD:

<u>SIZE</u>	<u>WEIGHT</u>	<u>DEPTH</u>	<u>CEMENTING RECORD &amp; TOP OF CEMENT</u>
16"	65	375'	550 sack (Circ)
11-3/4"	42	1590'	950 sack (Circ)
5-1/2"	15.5	4800'	2000 sack (Circ)

PERFORATIONS AND TREATMENT:

<u>INTERVAL</u>	<u>TREATMENT</u>
4484' - 4709'	Acid w/5500 gal

POTENTIAL TEST:

<u>DATE</u>	<u>PRODUCTION</u>
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WELLS WITHIN AREA OF REVIEW  
(1/2 MILE RADIUS)

OPERATOR: Texaco Inc.

LEASE NAME: Vacuum Grayburg San Andres Unit No. 64

FIELD NAME: Vacuum Grayburg San Andres

LOCATION OF WELL: 660' FSL, 660' FWL, Section 35, T-18-S, R-34-E,  
Lea County, New Mexico

TYPE OF LEASE: State

WELL STATUS: Pumping - Oil

PRODUCING FORMATION: San Andres

SPUD DATE: 3-14-39

COMPLETION DATE: 4-19-39

TOTAL DEPTH: 4675'

PLUG BACK DEPTH: ---

CASING RECORD:

<u>SIZE</u>	<u>WEIGHT</u>	<u>DEPTH</u>	<u>CEMENTING RECORD &amp; TOP OF CEMENT</u>
7-5/8"	26.4	1597'	400 sack (Circ)
5-1/2"	17	4225'	200 sack 1587'

PERFORATIONS AND TREATMENT:

<u>INTERVAL</u>	<u>TREATMENT</u>
4225' - 4675'	---

POTENTIAL TEST:

<u>DATE</u>	<u>PRODUCTION</u>
4-19-39	196 Oil; 780 GOR

WELLS WITHIN AREA OF REVIEW  
(1/2 MILE RADIUS)

OPERATOR: Texaco Inc.

LEASE NAME: Vacuum Grayburg Unit No. 65

FIELD NAME: Vacuum Grayburg San Andres

LOCATION OF WELL: 1310' FSL, 120 FWL, Section 35, T-17-S, R-34-E,  
Lea County, New Mexico

TYPE OF LEASE: State

WELL STATUS: Injector currently being drilled.

PRODUCING FORMATION: San Andres

SPUD DATE: 1-4-83

COMPLETION DATE: to be completed

TOTAL DEPTH: 4800'

PLUG BACK DEPTH: ---

CASING RECORD:

<u>SIZE</u>	<u>WEIGHT</u>	<u>DEPTH</u>	<u>CEMENTING RECORD &amp; TOP OF CEMENT</u>
13-3/8"	48	354'	400 sack - Circ.
9-5/8"	36	1553'	650 sack - Circ.
5-1/2"	15.5	4800'	1700 sack - 1700'

PERFORATIONS AND TREATMENT:

INTERVAL                      TREATMENT

Estimated interval    Acid w/6000 gal  
4485' - 4755'

POTENTIAL TEST:

DATE                              PRODUCTION

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WELLS WITHIN AREA OF REVIEW  
(1/2 MILE RADIUS)

OPERATOR: Texaco Inc.  
LEASE NAME: Vacuum Grayburg San Andres Unit No. 66  
FIELD NAME: Vacuum Grayburg San Andres  
LOCATION OF WELL: 1980' FSL, 660' FSL, Section 35, T-17-S,  
R-34-E, Lea County, New Mexico  
TYPE OF LEASE: State  
WELL STATUS: Pumping - Oil  
PRODUCING FORMATION: San Andres  
SPUD DATE: 8-15-38 COMPLETION DATE: 9-18-38  
TOTAL DEPTH: 4675' PLUG BACK DEPTH: ---

CASING RECORD:

<u>SIZE</u>	<u>WEIGHT</u>	<u>DEPTH</u>	<u>CEMENTING RECORD &amp; TOP OF CEMENT</u>
7-5/8"	26.4	1623'	300 sack (Circ)
5-1/2"	17	4192'	200 sack 1556'

PERFORATIONS AND TREATMENT:

<u>INTERVAL</u>	<u>TREATMENT</u>
4192' - 4675'	---

POTENTIAL TEST:

<u>DATE</u>	<u>PRODUCTION</u>
9-18-38	120 Oil; 775 GOR

WELLS WITHIN AREA OF REVIEW  
(1/2 MILE RADIUS)

OPERATOR: Texaco Inc.  
LEASE NAME: Vacuum Grayburg San Andres Unit No. 67  
FIELD NAME: Vacuum Grayburg San Andres  
LOCATION OF WELL: 2630' FSL, 120' FWL, Section 35, T-17-S,  
R-34-E, Lea County, New Mexico  
TYPE OF LEASE: State  
WELL STATUS: Shut-in - Injection  
PRODUCING FORMATION: San Andres  
SPUD DATE: 12-16-82 COMPLETION DATE: 1-12-83  
TOTAL DEPTH: 4800' PLUG BACK DEPTH: 4774'

CASING RECORD:

<u>SIZE</u>	<u>WEIGHT</u>	<u>DEPTH</u>	<u>CEMENTING RECORD &amp; TOP OF CEMENT</u>
13-3/8"	48	350'	450 sack
9-5/8"	36	1545'	800 sack
5-1/2"	15.5	4800'	2000 sack

PERFORATIONS AND TREATMENT:

<u>INTERVAL</u>	<u>TREATMENT</u>
4483' - 4755'	Acid w/6000 gal. in 2 stages & 50 Ball Sealers

POTENTIAL TEST:

<u>DATE</u>	<u>PRODUCTION</u>
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WELLS WITHIN AREA OF REVIEW  
(1/2 MILE RADIUS)

OPERATOR: Texaco Inc.  
LEASE NAME: West Vacuum Unit No. 29  
FIELD NAME: Vacuum Grayburg San Andres  
LOCATION OF WELL: 1980' FSL, 660' FEL, Section 34, T-17-S,  
R-33-E, Lea County, New Mexico  
TYPE OF LEASE: State  
WELL STATUS: Pumping - Oil  
PRODUCING FORMATION: San Andres  
SPUD DATE: 10-12-38 COMPLETION DATE: 11-20-38  
TOTAL DEPTH: 4710' PLUG BACK DEPTH: 4705'

CASING RECORD:

<u>SIZE</u>	<u>WEIGHT</u>	<u>DEPTH</u>	<u>CEMENTING RECORD &amp; TOP OF CEMENT</u>
9-5/8"	36	497'	250 sack
7"	24	4200'	700 sack

PERFORATIONS AND TREATMENT:

<u>INTERVAL</u>	<u>TREATMENT</u>
4099' - 4710'	---

POTENTIAL TEST:

<u>DATE</u>	<u>PRODUCTION</u>
11-20-38	58 Oil; 281 GOR

WELLS WITHIN AREA OF REVIEW  
(1/2 MILE RADIUS)

OPERATOR: Texaco Inc.

LEASE NAME: West Vacuum Unit No. 36

FIELD NAME: Vacuum Grayburg San Andres

LOCATION OF WELL: 660' FSL, 1980' FEL, Section 34, T-17-S,  
R-34-E, Lea County, New Mexico

TYPE OF LEASE: State

WELL STATUS: Injection - Active

PRODUCING FORMATION: San Andres

SPUD DATE: 3-20-39

COMPLETION DATE: 4-24-39

TOTAL DEPTH: 4685'

PLUG BACK DEPTH: ---

CASING RECORD:

<u>SIZE</u>	<u>WEIGHT</u>	<u>DEPTH</u>	<u>CEMENTING RECORD &amp; TOP OF CEMENT</u>
7-5/8"	26.4	1600'	660 sack (Circ)
5-1/2"	17	4200'	200 sack 1500'

PERFORATIONS AND TREATMENT:

<u>INTERVAL</u>	<u>TREATMENT</u>
4230' - 4685'	---

POTENTIAL TEST:

<u>DATE</u>	<u>PRODUCTION</u>
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WELLS WITHIN AREA OF REVIEW  
(1/2 MILE RADIUS)

OPERATOR: Texaco Inc.  
LEASE NAME: West Vacuum Unit No. 37  
FIELD NAME: Vacuum Grayburg San Andres  
LOCATION OF WELL: 4620' FNL, 660' FEL, Section 34, T-17-S,  
R-34-E, Lea County, New Mexico  
TYPE OF LEASE: State  
WELL STATUS: Pumping - Oil  
PRODUCING FORMATION: San Andres  
SPUD DATE: COMPLETION DATE: 2-10-39  
TOTAL DEPTH: 4675' PLUG BACK DEPTH: ---

CASING RECORD:

<u>SIZE</u>	<u>WEIGHT</u>	<u>DEPTH</u>	<u>CEMENTING RECORD &amp; TOP OF CEMENT</u>
10-3/4"	32.75	275'	225 sack (Circ)
7-5/8"	26.40	1617'	425 sack (Circ)
5-1/2"	17	4206'	425 sack 3000'

PERFORATIONS AND TREATMENT:

<u>INTERVAL</u>	<u>TREATMENT</u>
4206' - 4675'	---

POTENTIAL TEST:

<u>DATE</u>	<u>PRODUCTION</u>
2-16-39	888 Oil; 648 MCF

WELLS WITHIN AREA OF REVIEW  
(1/2 MILE RADIUS)

OPERATOR: Texaco Inc.

LEASE NAME: West Vacuum Unit No. 45

FIELD NAME: Vacuum Grayburg San Andres

LOCATION OF WELL: 660' FNL, 1980' FEL, Section 3, T-18-S, R-34-E,  
Lea County, New Mexico

TYPE OF LEASE: State

WELL STATUS: Pumping - Oil

PRODUCING FORMATION: San Andres

SPUD DATE: 10-7-39

COMPLETION DATE: 11-17-39

TOTAL DEPTH: 4775'

PLUG BACK DEPTH: ---

CASING RECORD:

<u>SIZE</u>	<u>WEIGHT</u>	<u>DEPTH</u>	<u>CEMENTING RECORD &amp; TOP OF CEMENT</u>
8-5/8"	28	1593'	300 sack (Circ)
5-1/2"	17	4189'	200 sack 1258'

PERFORATIONS AND TREATMENT:

<u>INTERVAL</u>	<u>TREATMENT</u>
4189' - 4775'	Acid w/1500 gal.

POTENTIAL TEST:

<u>DATE</u>	<u>PRODUCTION</u>
11-11-39	62 Oil; 425 GOR

WELLS WITHIN AREA OF REVIEW  
(1/2 MILE RADIUS)

OPERATOR: Texaco Inc.

LEASE NAME: West Vacuum Unit No. 46

FIELD NAME: Vacuum Grayburg San Andres

LOCATION OF WELL: 660' FNL, 660' FEL, Section 3, T-18-S, R-34-E,  
Lea County, New Mexico

TYPE OF LEASE: State

WELL STATUS: Pumping - Oil

PRODUCING FORMATION: San Andres

SPUD DATE: 3-19-39

COMPLETION DATE: 4-23-39

TOTAL DEPTH: 4773'

PLUG BACK DEPTH: ---

CASING RECORD:

<u>SIZE</u>	<u>WEIGHT</u>	<u>DEPTH</u>	<u>CEMENTING RECORD &amp; TOP OF CEMENT</u>
7-5/8"	28.4	1585'	575 sack (Circ)
5-1/2"	17	4234'	200 sack 1500'

PERFORATIONS AND TREATMENT:

INTERVAL                      TREATMENT

4234' - 4773'                      ---

POTENTIAL TEST:

DATE                                      PRODUCTION

4-23-39                                      96 Oil; 888 GOR

WELLS WITHIN AREA OF REVIEW  
(1/2 MILE RADIUS)

OPERATOR: Texaco Inc.

LEASE NAME: West Vacuum Unit No. 48

FIELD NAME: Vacuum Grayburg San Andres

LOCATION OF WELL: 1980' FNL, 1980' FEL, Section 3, T-18-S,  
R-34-E, Lea County, New Mexico

TYPE OF LEASE: State

WELL STATUS: Injection - Active

PRODUCING FORMATION: San Andres

SPUD DATE: 8-8-50

COMPLETION DATE: 9-4-50

TOTAL DEPTH: 4740'

PLUG BACK DEPTH: 4670'

CASING RECORD:

<u>SIZE</u>	<u>WEIGHT</u>	<u>DEPTH</u>	<u>CEMENTING RECORD &amp; TOP OF CEMENT</u>
8-5/8"	32	1654'	1000 sack (Circ)
5-1/2"	15.5	4340'	500 sack 3800'

PERFORATIONS AND TREATMENT:

<u>INTERVAL</u>	<u>TREATMENT</u>
4340' - 4740'	Acid w/8000 gal.

POTENTIAL TEST:

<u>DATE</u>	<u>PRODUCTION</u>
9-4-50	27 Oil

WELLS WITHIN AREA OF REVIEW  
(1/2 MILE RADIUS)

OPERATOR: Texaco Inc.

LEASE NAME: West Vacuum Unit No. 49

FIELD NAME: Vacuum Grayburg San Andres

LOCATION OF WELL: 1980' FNL, 660' FEL, Section 3, T-18-S,  
R-34-E, Lea County, New Mexico

TYPE OF LEASE: State

WELL STATUS: Pumping - Oil

PRODUCING FORMATION: San Andres

SPUD DATE: 8-15-51

COMPLETION DATE: 9-17-51

TOTAL DEPTH: 4800'

PLUG BACK DEPTH: ---

CASING RECORD:

<u>SIZE</u>	<u>WEIGHT</u>	<u>DEPTH</u>	<u>CEMENTING RECORD &amp; TOP OF CEMENT</u>
8-5/8"	28	1620'	1000 sack (Circ)
5-1/2"	14	4348'	500 sack 2060'

PERFORATIONS AND TREATMENT:

<u>INTERVAL</u>	<u>TREATMENT</u>
4348' - 4800'	Acid w/4000 gal.

POTENTIAL TEST:

<u>DATE</u>	<u>PRODUCTION</u>
9-17-51	153 Oil

P. O. BOX 1468  
 MONAHANS, TEXAS 79756  
 PH. 943-3234 OR 583-1040

Martin Water Laboratories, Inc.

709 W. INDIANA  
 MIDLAND, TEXAS 79701  
 PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. Larry Schlotterback LABORATORY NO. 283438  
P.O.Box 728, Hobbs, NM SAMPLE RECEIVED 2-24-83  
 RESULTS REPORTED 3-1-83

COMPANY Texaco, Inc. LEASE No. -2-5838

FIELD OR POOL \_\_\_\_\_  
 SECTION 2 BLOCK T 18S SURVEY R 34 E COUNTY Lea STATE NM

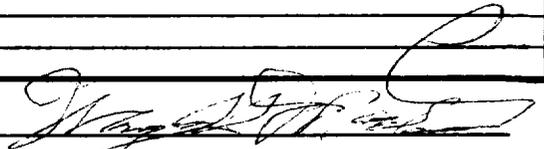
SOURCE OF SAMPLE AND DATE TAKEN:  
 NO. 1 Raw water - taken from water supply well #1 (Unit F), 2-24-83  
 NO. 2 \_\_\_\_\_  
 NO. 3 \_\_\_\_\_  
 NO. 4 \_\_\_\_\_

REMARKS: Sample taken by James C. Powell, Martin Water Labs., Inc.

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0024			
pH When Sampled	7.5			
pH When Received	7.5			
Bicarbonate as HCO <sub>3</sub>	220			
Supersaturation as CaCO <sub>3</sub>				
Undersaturation as CaCO <sub>3</sub>				
Total Hardness as CaCO <sub>3</sub>	296			
Calcium as Ca	86			
Magnesium as Mg	20			
Sodium and/or Potassium	72			
Sulfate as SO <sub>4</sub>	40			
Chloride as Cl	163			
Iron as Fe	0.23			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	601			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	0.0			
Resistivity, ohms/m at 77° F.	12.00			
Suspended Oil	0			
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

By   
 Weylan C. Martin, M. A.

RESULT OF WATER ANALYSES

LABORATORY NO. 58248  
 SAMPLE RECEIVED 5-24-88  
 RESULTS REPORTED 5-27-88

CLIENT: FARMER'S CO-OP  
 ADDRESS: BOX 1288  
 CITY: MIDLAND TEXAS 79702

FIELD OR SOURCE: SECTION 2, BLOCK 1, SURVEY 2, 4 B  
 COUNTY: TARRANT STATE: TEXAS

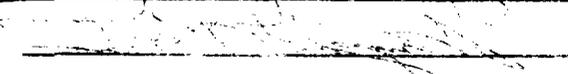
DATE OF SAMPLE AND DATE TAKEN: 5-24-88

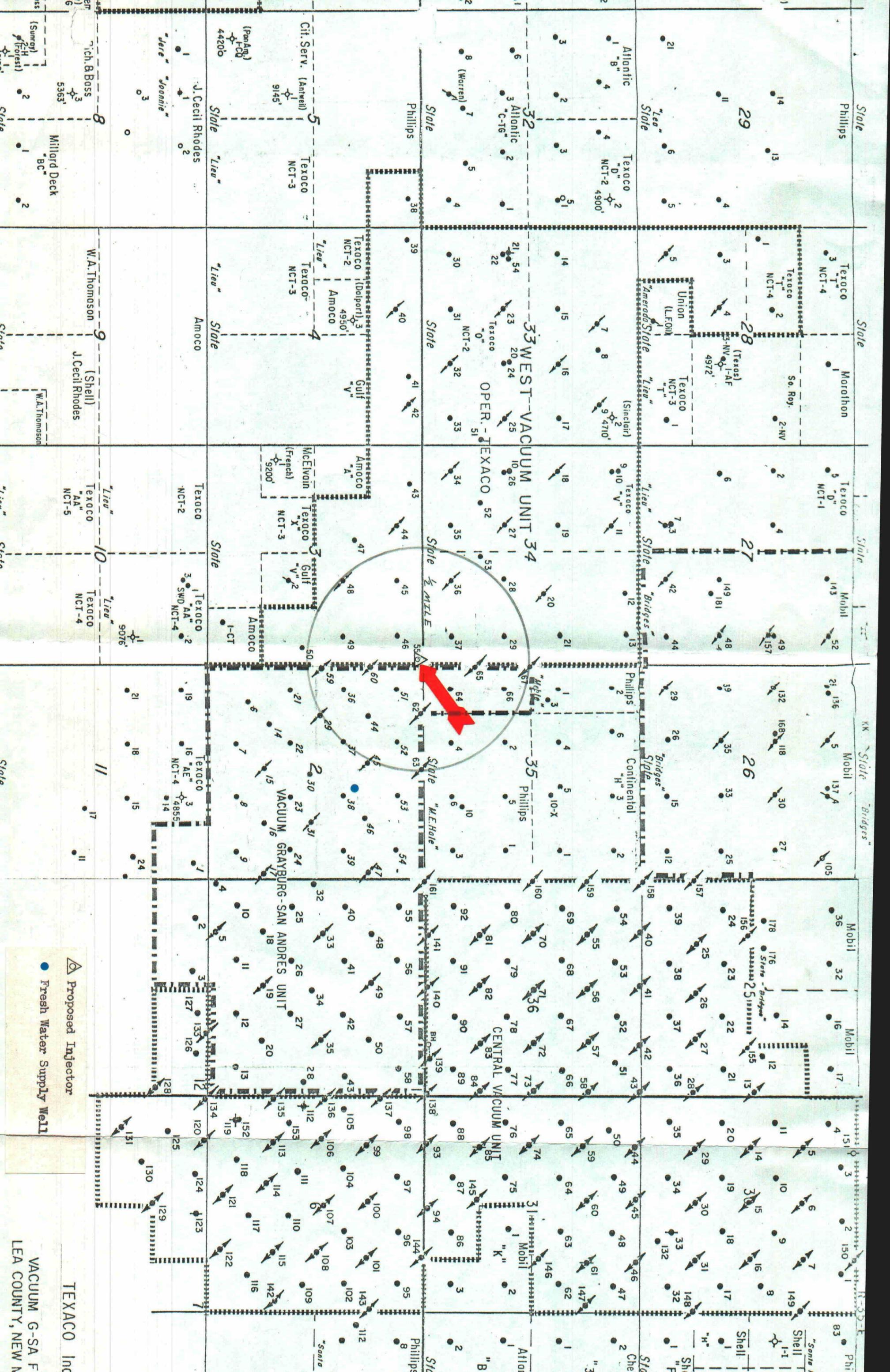
REMARKS: 1. Sample taken on 5/24/88 from Martin Water Lab, Inc.

CHEMICAL AND PHYSICAL PROPERTIES			
NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 20° C			
pH When Sampled	7.2		
pH When Reported	7.2		
Electrometrical (HCO <sub>3</sub> )	220		
Temperature in °C			
Unfiltered in °C			
Total Hardness as CaCO <sub>3</sub>	228		
Calcium as Ca	88		
Magnesium as Ca	22		
Sodium Chloride	72		
Sulfate as SO <sub>4</sub>	42		
Chloride as Cl	162		
Iron as Fe	0.28		
Barium as Ba			
Strontium			
Total Solids (Calculated)	601		
Temperature (F)			
Carbon Dioxide (Calculated)			
Dissolved Oxygen (Winkler)			
Hydrogen Sulfide	0.12		
Residual Chlorine at 20° C	12.00		
Unfiltered Oil	0		
Filterable Solids (as mg/l)			
Volume (ml)			

Results Reported As Milligrams Per Liter

Additional Deviations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

By:   
 Jaylan G. Martin, P.E.



33 WEST-VACUUM UNIT 34  
OPER. - TEXACO

VACUUM GRAYBURG-SAN ANDRES UNIT

CENTRAL VACUUM UNIT

Proposed Injector  
Fresh Water Supply Well

TEXACO Inc  
VACUUM G-SA F  
LEA COUNTY, NEW N

● **SENDER:** Complete items 1, 2, 3, and 4. Add your address in the "RETURN TO" space on reverse.

**(CONSULT POSTMASTER FOR FEES)**

1. The following service is requested (check one).  
 Show to whom and date delivered ..... 60¢  
 Show to whom, date, and address of delivery .. —¢  
 RESTRICTED DELIVERY  
 (The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$ 60

2. ARTICLE ADDRESSED TO:  
 Amoco Production company  
 P. O. Box 68  
 Hobbs, New Mexico 88240

4. TYPE OF SERVICE:  REGISTERED  INSURED  CERTIFIED  COO  EXPRESS MAIL  
 ARTICLE NUMBER P 433 661 007

(Always obtain signature of addressee or agent)  
 I have received the article described above.  
 SIGNATURE  Addressee  Authorized agent

5. DATE OF DELIVERY POSTMARK

6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE: 7a. EMPLOYEE'S INITIALS

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TOTAL \$ 60

3. ARTICLE ADDRESSED TO:  
 BTA Oil Producers  
 104 S. Pecos  
 Midland, Texas, 79702

4. TYPE OF SERVICE:  REGISTERED  INSURED  CERTIFIED  COO  EXPRESS MAIL  
 ARTICLE NUMBER P 433 661 008

(Always obtain signature of addressee or agent)  
 I have received the article described above.  
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7. UNABLE TO DELIVER BECAUSE: 7a. EMPLOYEE'S INITIALS

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 Show to whom, date, and address of delivery .. —¢  
 RESTRICTED DELIVERY  
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TOTAL \$ 60

3. ARTICLE ADDRESSED TO:  
 Cities Service Oil Co.  
 P. O. Box 1919  
 Midland, Texas, 79702

4. TYPE OF SERVICE:  REGISTERED  INSURED  CERTIFIED  COO  EXPRESS MAIL  
 ARTICLE NUMBER P 433 661 009

(Always obtain signature of addressee or agent)  
 I have received the article described above.  
 SIGNATURE  Addressee  Authorized agent

5. DATE OF DELIVERY POSTMARK

6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE: 7a. EMPLOYEE'S INITIALS

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 Show to whom and date delivered ..... 60¢  
 Show to whom, date, and address of delivery .. —¢  
 RESTRICTED DELIVERY  
 (The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$ 60

3. ARTICLE ADDRESSED TO:  
 CONOCO INC.  
 P. O. Box 460  
 Hobbs, New Mexico, 88240

4. TYPE OF SERVICE:  REGISTERED  INSURED  CERTIFIED  COO  EXPRESS MAIL  
 ARTICLE NUMBER P 433 661 007

(Always obtain signature of addressee or agent)  
 I have received the article described above.  
 SIGNATURE  Addressee  Authorized agent

5. DATE OF DELIVERY POSTMARK

6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE: 7a. EMPLOYEE'S INITIALS

● SENDER: Complete items 1, 2, 3, and 4. Add your address in the "RETURN TO" space on reverse.

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 Show to whom and date delivered ..... 60¢  
 Show to whom, date, and address of delivery.. \_\_\_¢  
 RESTRICTED DELIVERY  
 (The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$60

3. ARTICLE ADDRESSED TO:  
 Marathon Oil Company  
 P. O. Box 552  
 Midland, Texas, 79702

4. TYPE OF SERVICE: ARTICLE NUMBER  
 REGISTERED  INSURED  
 CERTIFIED  COS P 433 661 006  
 EXPRESS MAIL

(Always obtain signature of addressee or agent)  
 I have received the article described above.  
 SIGNATURE  Addressee  Authorized agent

5. DATE OF DELIVERY POSTMARK  
 6. ADDRESSEE'S ADDRESS (Only if requested)  
 7. UNABLE TO DELIVER BECAUSE: 7a. EMPLOYEES INITIALS

● SENDER: Complete items 1, 2, 3, and 4. Add your address in the "RETURN TO" space on reverse.

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 Show to whom and date delivered ..... 60¢  
 Show to whom, date, and address of delivery.. \_\_\_¢  
 RESTRICTED DELIVERY  
 (The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$60

3. ARTICLE ADDRESSED TO:  
 Arco Oil & Gas Company  
 P. O. Box 1610  
 Midland, Texas, 79702

4. TYPE OF SERVICE: ARTICLE NUMBER  
 REGISTERED  INSURED  
 CERTIFIED  COS P 433 661 005  
 EXPRESS MAIL

(Always obtain signature of addressee or agent)  
 I have received the article described above.  
 SIGNATURE  Addressee  Authorized agent

5. DATE OF DELIVERY POSTMARK  
 6. ADDRESSEE'S ADDRESS (Only if requested)  
 7. UNABLE TO DELIVER BECAUSE: 7a. EMPLOYEES INITIALS

● SENDER: Complete items 1, 2, 3, and 4. Add your address in the "RETURN TO" space on reverse.

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 Show to whom, date, and address of delivery.. \_\_\_¢  
 RESTRICTED DELIVERY  
 (The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$60

3. ARTICLE ADDRESSED TO:  
 Phillips Petroleum Company  
 4001 Pembroke  
 Odessa, Texas, 79762

4. TYPE OF SERVICE: ARTICLE NUMBER  
 REGISTERED  INSURED  
 CERTIFIED  COS P 433 661 004  
 EXPRESS MAIL

(Always obtain signature of addressee or agent)  
 I have received the article described above.  
 SIGNATURE  Addressee  Authorized agent

5. DATE OF DELIVERY POSTMARK  
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 7. UNABLE TO DELIVER BECAUSE: 7a. EMPLOYEES INITIALS

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TOTAL \$60

3. ARTICLE ADDRESSED TO:  
 Tripior Resources Oil & Gas  
 P. O. Box 61585  
 Houston, Texas, 77208

4. TYPE OF SERVICE: ARTICLE NUMBER  
 REGISTERED  INSURED  
 CERTIFIED  COS P 433 661 010  
 EXPRESS MAIL

(Always obtain signature of addressee or agent)  
 I have received the article described above.  
 SIGNATURE  Addressee  Authorized agent

5. DATE OF DELIVERY POSTMARK  
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(CONSULT POSTMASTER FOR FEES)

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 Show to whom, date, and address of delivery.. ..  
 RESTRICTED DELIVERY  
(The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$ 60

ARTICLE ADDRESSED TO:  
 Tenneco Oil Expl & Prod. Co.  
 6800 Park Ten Blvd., Suite 200N  
 San Antonio, Texas, 78213

4. TYPE OF SERVICE: ARTICLE NUMBER  
 REGISTERED  INSURED P 433 661 002  
 CERTIFIED  COB  
 EXPRESS MAIL

(Always obtain signature of addressee or agent)

I have received the article described above:

SIGNATURE  Addressee  Authorized agent

5. DATE OF DELIVERY POSTMARK

6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE: 7a. EMPLOYEE'S INITIALS

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(CONSULT POSTMASTER FOR FEES)

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 Show to whom, date, and address of delivery.. ..  
 RESTRICTED DELIVERY  
(The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$ 60

ARTICLE ADDRESSED TO:  
 Gulf Oil Expl. & Prod. Co.  
 P. O. Box 670  
 Hobbs, New Mexico 88240

4. TYPE OF SERVICE: ARTICLE NUMBER  
 REGISTERED  INSURED P 433 661 001  
 CERTIFIED  COB  
 EXPRESS MAIL

(Always obtain signature of addressee or agent)

I have received the article described above:

SIGNATURE  Addressee  Authorized agent

5. DATE OF DELIVERY POSTMARK

6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE: 7a. EMPLOYEE'S INITIALS

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(CONSULT POSTMASTER FOR FEES)

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 Show to whom and date delivered .....  
 Show to whom, date, and address of delivery.. ..  
 RESTRICTED DELIVERY  
(The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$ 60

ARTICLE ADDRESSED TO:  
 Scharbauer Cattle Company  
 P. O. Box 1471  
 Midland, Texas, 79702

4. TYPE OF SERVICE: ARTICLE NUMBER  
 REGISTERED  INSURED P 433 661 011  
 CERTIFIED  COB  
 EXPRESS MAIL

(Always obtain signature of addressee or agent)

I have received the article described above:

SIGNATURE  Addressee  Authorized agent

5. DATE OF DELIVERY POSTMARK

6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE: 7a. EMPLOYEE'S INITIALS



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

TONY ANAYA  
GOVERNOR

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-5800

February 21, 1983

Texaco, U.S.A.  
Mr. V. G. Johnston, Assistant District Manager  
P. O. Box 728  
Hobbs, New Mexico 88240

Re: Application for Water Injection  
West Vacuum Unit Well No. 55  
Lea County, New Mexico

Dear Mr. Johnston:

We have received the additional data needed to grant administrative approval for injection into the subject well. However, two of the requested items were missing and are required to complete the administrative process.

The two items are;

1. Current fresh water tests are required. The submitted test is almost three years old.
2. The location of the water source well specified in the map submitted should coincide with the location of the water samples taken. This can be done by specifying Section, Township and Range of both.

Any question concerning this matter, as well as data, should be submitted to Gilbert Quintana at 827-5807 of this office.

Sincerely,

A handwritten signature in cursive script that reads "Joe D. Ramey".

JOE D. RAMEY  
Director

JDR/jc