

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 & 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 & 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 & 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 & 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> |
|-----------------|------------------|
|-----------------|------------------|

| | |
|---------------|-----|
| 4251' - 4700' | --- |
|---------------|-----|

POTENTIAL TEST:

| <u>DATE</u> | <u>PRODUCTION</u> |
|-------------|-------------------|
|-------------|-------------------|

| | |
|---------|------------------|
| 5-29-39 | 236 Oil; 605 GOR |
|---------|------------------|

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 & 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> |
|-----------------|------------------|
|-----------------|------------------|

| | |
|---------------|-----|
| 4189' - 4696' | --- |
|---------------|-----|

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 & 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> |
|-----------------|------------------|
|-----------------|------------------|

| | |
|---------------|-----|
| 4647' - 4762' | --- |
|---------------|-----|

POTENTIAL TEST:

| <u>DATE</u> | <u>PRODUCTION</u> |
|-------------|-------------------|
|-------------|-------------------|

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 & 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> |
|-------------|-------------------|
| --- | --- |

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 & 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> |
|-------------|-------------------|
|-------------|-------------------|

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 & 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> |
|-------------|-------------------|
|-------------|-------------------|

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 & 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 & 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:

| <u>INTERVAL</u> | <u>TREATMENT</u> |
|-----------------|------------------|
|-----------------|------------------|

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

POTENTIAL TEST:

| <u>DATE</u> | <u>PRODUCTION</u> |
|-------------|-------------------|
|-------------|-------------------|

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 & 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> |
|-----------------|------------------|
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|---------------|-----|
| 4192' - 4675' | --- |
|---------------|-----|

POTENTIAL TEST:

| <u>DATE</u> | <u>PRODUCTION</u> |
|-------------|-------------------|
|-------------|-------------------|

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|---------|------------------|
| 9-18-38 | 120 Oil; 775 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. 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 & 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> |
|-------------|-------------------|
|-------------|-------------------|

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 & 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 & 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> |
|-------------|-------------------|
| --- | --- |

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 & 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> |
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| 4206' - 4675' | --- |
|---------------|-----|

POTENTIAL TEST:

| <u>DATE</u> | <u>PRODUCTION</u> |
|-------------|-------------------|
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|---------|------------------|
| 2-16-39 | 888 Oil; 648 MCF |
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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 & 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 & TOP OF CEMENT</u> |
|-------------|---------------|--------------|---|
| 7-5/8" | 28.4 | 1585' | 575 sack (Circ) |
| 5-1/2" | 17 | 4234' | 200 sack 1500' |

PERFORATIONS AND TREATMENT:

| <u>INTERVAL</u> | <u>TREATMENT</u> |
|-----------------|------------------|
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|---------------|-----|
| 4234' - 4773' | --- |
|---------------|-----|

POTENTIAL TEST:

| <u>DATE</u> | <u>PRODUCTION</u> |
|-------------|-------------------|
| 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 & 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 & 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 |

MONAHAN TEXAS 75755
PH 3-3534 OR 353-040

709 W INDIANA
MIDLAND TEXAS 79701
PHONE 683-4521

Martin Water Laboratories, Inc.
RESULT OF WATER ANALYSIS

LABORATORY NO. 58548
SAMPLE RECEIVED 5-24-88
RESULTS REPORTED 5-27-88

COMPANY: [blank]
FIELD OR SOURCE: [blank]
SECTION: [blank] BLOCK: [blank] SURVEY: [blank]
COUNTY: [blank] STATE: [blank]

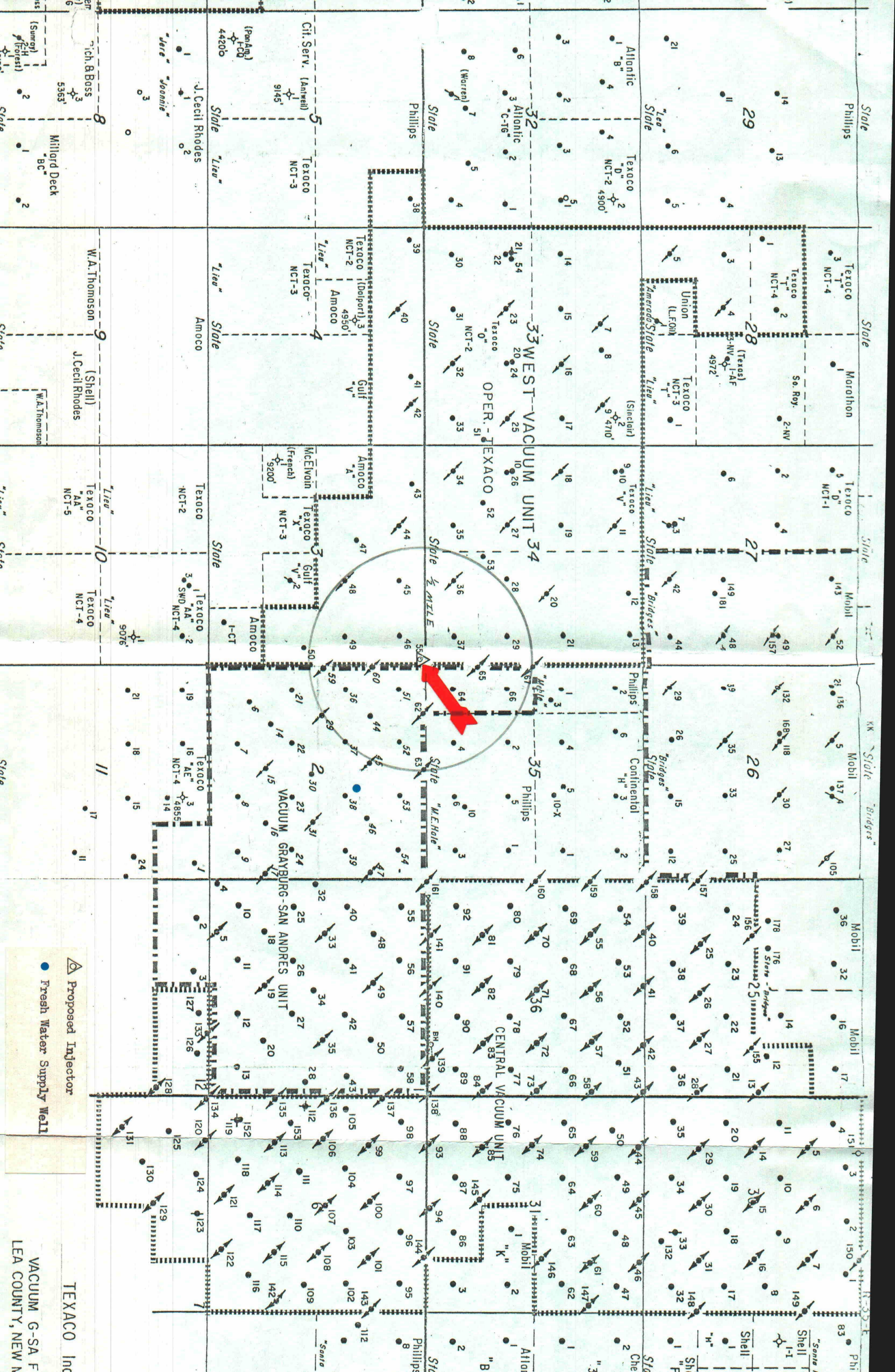
DATE OF SAMPLE AND DATE TAKEN: [blank]
ANALYST: [blank]
TAKEN BY: [blank]
TAKEN FOR: [blank]

| CHEMICAL AND PHYSICAL PROPERTIES | | | |
|--|-------|-------|-------|
| NO. 1 | NO. 2 | NO. 3 | NO. 4 |
| Specific Gravity at 60°F | | | |
| pH When Sampled | | | |
| pH When Reported | | | |
| Bicarbonate as HCO ₃ | | | |
| Superficial as CaCO ₃ | | | |
| Unfiltered as CaCO ₃ | | | |
| Total Hardness as CaCO ₃ | | | |
| Calcium as Ca | | | |
| Magnesium as Mg | | | |
| Sodium Chloride as NaCl | | | |
| Sulfate as SO ₄ | | | |
| Chloride as Cl | | | |
| Iron as Fe | | | |
| Boron as B ₂ O ₃ | | | |
| Fluoride as F ⁻ | | | |
| Total Solids Calculated | | | |
| Temperature °F | | | |
| Carbon Dioxide Calculated | | | |
| Dissolved Oxygen, Winkler | | | |
| Hydrogen Sulfide | | | |
| Residue on Ignition at 550°F | | | |
| Unfiltered Oil | | | |
| Filterable Solids (as mg/l) | | | |
| Volume, 100 ml | | | |

Results Reported As Milligrams Per Liter

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

Signature: [blank]
Name: [blank]



| | |
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| ● 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). <input checked="" type="checkbox"/> Show to whom and date delivered 60¢ <input type="checkbox"/> Show to whom, date, and address of delivery.. —¢ <input type="checkbox"/> RESTRICTED DELIVERY (The restricted delivery fee is charged in addition to the return receipt fee.) | TOTAL \$ 60 |
| 3. ARTICLE ADDRESSED TO: Amoco Production company P. O. Box 68 Hobbs, New Mexico 88240 | |
| 4. TYPE OF SERVICE: <input checked="" type="checkbox"/> REGISTERED <input type="checkbox"/> INSURED <input type="checkbox"/> CERTIFIED <input type="checkbox"/> COO <input type="checkbox"/> EXPRESS MAIL | ARTICLE NUMBER P 433 661 007 |
| (Always obtain signature of addressee or agent) I have received the article described above. SIGNATURE <input type="checkbox"/> Addressee <input type="checkbox"/> 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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| ● 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). <input checked="" type="checkbox"/> Show to whom and date delivered 60¢ <input type="checkbox"/> Show to whom, date, and address of delivery.. —¢ <input type="checkbox"/> RESTRICTED DELIVERY (The restricted delivery fee is charged in addition to the return receipt fee.) | TOTAL \$ 60 |
| 3. ARTICLE ADDRESSED TO: BTA Oil Producers 104 S. Pecos Midland, Texas, 79702 | |
| 4. TYPE OF SERVICE: <input checked="" type="checkbox"/> REGISTERED <input type="checkbox"/> INSURED <input type="checkbox"/> CERTIFIED <input type="checkbox"/> COO <input type="checkbox"/> EXPRESS MAIL | ARTICLE NUMBER P 433 661 008 |
| (Always obtain signature of addressee or agent) I have received the article described above. SIGNATURE <input type="checkbox"/> Addressee <input type="checkbox"/> 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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| ● 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). <input type="checkbox"/> Show to whom and date delivered 60¢ <input type="checkbox"/> Show to whom, date, and address of delivery.. —¢ <input type="checkbox"/> RESTRICTED DELIVERY (The restricted delivery fee is charged in addition to the return receipt fee.) | TOTAL \$ 60 |
| 3. ARTICLE ADDRESSED TO: Cities Service Oil Co. P. O. Box 1919 Midland, Texas, 79702 | |
| 4. TYPE OF SERVICE: <input checked="" type="checkbox"/> REGISTERED <input type="checkbox"/> INSURED <input type="checkbox"/> CERTIFIED <input type="checkbox"/> COO <input type="checkbox"/> EXPRESS MAIL | ARTICLE NUMBER P 433 661 009 |
| (Always obtain signature of addressee or agent) I have received the article described above. SIGNATURE <input type="checkbox"/> Addressee <input type="checkbox"/> 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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| ● 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). <input checked="" type="checkbox"/> Show to whom and date delivered 60¢ <input type="checkbox"/> Show to whom, date, and address of delivery.. —¢ <input type="checkbox"/> 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: <input checked="" type="checkbox"/> REGISTERED <input type="checkbox"/> INSURED <input type="checkbox"/> CERTIFIED <input type="checkbox"/> COO <input type="checkbox"/> EXPRESS MAIL | ARTICLE NUMBER P 433 661 007 |
| (Always obtain signature of addressee or agent) I have received the article described above. SIGNATURE <input type="checkbox"/> Addressee <input type="checkbox"/> 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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| ● 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): <input checked="" type="checkbox"/> Show to whom and date delivered 60¢ <input type="checkbox"/> Show to whom, date, and address of delivery.. —¢ <input type="checkbox"/> RESTRICTED DELIVERY (The restricted delivery fee is charged in addition to the return receipt fee.) | |
| TOTAL \$60 | |
| 1. ARTICLE ADDRESSED TO: Marathon Oil Company P. O. Box 552 Midland, Texas, 79702 | |
| 4. TYPE OF SERVICE: <input type="checkbox"/> REGISTERED <input type="checkbox"/> INSURED <input checked="" type="checkbox"/> CERTIFIED <input type="checkbox"/> COS <input type="checkbox"/> EXPRESS MAIL | ARTICLE NUMBER P 433 661 006 |
| (Always obtain signature of addressee or agent) | |
| I have received the article described above. SIGNATURE <input type="checkbox"/> Addressee <input type="checkbox"/> 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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| ● 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): <input checked="" type="checkbox"/> Show to whom and date delivered 60¢ <input type="checkbox"/> Show to whom, date, and address of delivery.. —¢ <input type="checkbox"/> RESTRICTED DELIVERY (The restricted delivery fee is charged in addition to the return receipt fee.) | |
| TOTAL \$60 | |
| 1. ARTICLE ADDRESSED TO: Arco Oil & Gas Company P. O. Box 1610 Midland, Texas, 79702 | |
| 4. TYPE OF SERVICE: <input type="checkbox"/> REGISTERED <input type="checkbox"/> INSURED <input checked="" type="checkbox"/> CERTIFIED <input type="checkbox"/> COS <input type="checkbox"/> EXPRESS MAIL | ARTICLE NUMBER P 433 661 005 |
| (Always obtain signature of addressee or agent) | |
| I have received the article described above. SIGNATURE <input type="checkbox"/> Addressee <input type="checkbox"/> 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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| ● 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): <input checked="" type="checkbox"/> Show to whom and date delivered 60¢ <input type="checkbox"/> Show to whom, date, and address of delivery.. —¢ <input type="checkbox"/> RESTRICTED DELIVERY (The restricted delivery fee is charged in addition to the return receipt fee.) | |
| TOTAL \$60 | |
| 1. ARTICLE ADDRESSED TO: Phillips Petroleum Company 4001 Penbrook Odessa, Texas, 79762 | |
| 4. TYPE OF SERVICE: <input type="checkbox"/> REGISTERED <input type="checkbox"/> INSURED <input checked="" type="checkbox"/> CERTIFIED <input type="checkbox"/> COS <input type="checkbox"/> EXPRESS MAIL | ARTICLE NUMBER P 433 661 004 |
| (Always obtain signature of addressee or agent) | |
| I have received the article described above. SIGNATURE <input type="checkbox"/> Addressee <input type="checkbox"/> 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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| ● 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): <input checked="" type="checkbox"/> Show to whom and date delivered 60¢ <input type="checkbox"/> Show to whom, date, and address of delivery.. —¢ <input type="checkbox"/> RESTRICTED DELIVERY (The restricted delivery fee is charged in addition to the return receipt fee.) | |
| TOTAL \$60 | |
| 1. ARTICLE ADDRESSED TO: Tripior Resources Oil & Gas P. O. Box 61585 Houston, Texas, 77208 | |
| 4. TYPE OF SERVICE: <input type="checkbox"/> REGISTERED <input type="checkbox"/> INSURED <input checked="" type="checkbox"/> CERTIFIED <input type="checkbox"/> COS <input type="checkbox"/> EXPRESS MAIL | ARTICLE NUMBER P 433 661 003 |
| (Always obtain signature of addressee or agent) | |
| I have received the article described above. SIGNATURE <input type="checkbox"/> Addressee <input type="checkbox"/> 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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| ● 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). 60¢ <input checked="" type="checkbox"/> Show to whom and date delivered <input type="checkbox"/> Show to whom, date, and address of delivery.. —¢ <input type="checkbox"/> RESTRICTED DELIVERY —¢ (The restricted delivery fee is charged in addition to the return receipt fee.) | |
| TOTAL \$ 60 | |
| 3. ARTICLE ADDRESSED TO: Tenneco Oil Expl & Prod. Co. 6800 Park Ten Blvd., Suite 200N San Antonio, Texas, 78213 | |
| 4. TYPE OF SERVICE: <input type="checkbox"/> REGISTERED <input type="checkbox"/> INSURED <input checked="" type="checkbox"/> CERTIFIED <input type="checkbox"/> COB P 433 661 002 <input type="checkbox"/> EXPRESS MAIL | ARTICLE NUMBER |
| (Always obtain signature of addressee or agent) | |
| I have received the article described above. | |
| SIGNATURE <input type="checkbox"/> Addressee <input type="checkbox"/> 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) | |
| 1. The following service is requested (check one). 60¢ <input checked="" type="checkbox"/> Show to whom and date delivered <input type="checkbox"/> Show to whom, date, and address of delivery.. —¢ <input type="checkbox"/> RESTRICTED DELIVERY —¢ (The restricted delivery fee is charged in addition to the return receipt fee.) | |
| TOTAL \$ 60 | |
| 3. ARTICLE ADDRESSED TO: Gulf Oil Expl. & Prod. Co. P. O. Box 670 Hobbs, New Mexico 88240 | |
| 4. TYPE OF SERVICE: <input type="checkbox"/> REGISTERED <input type="checkbox"/> INSURED <input checked="" type="checkbox"/> CERTIFIED <input type="checkbox"/> COB P 433 661 001 <input type="checkbox"/> EXPRESS MAIL | ARTICLE NUMBER |
| (Always obtain signature of addressee or agent) | |
| I have received the article described above. | |
| SIGNATURE <input type="checkbox"/> Addressee <input type="checkbox"/> Authorized agent | |
| 5. DATE OF DELIVERY | POSTMARK |
| 6. ADDRESSEE'S ADDRESS (Only if requested) | |
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| (CONSULT POSTMASTER FOR FEES) | |
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| TOTAL \$60 | |
| 3. ARTICLE ADDRESSED TO: Scharbauer Cattle Company P. O. Box 1471 Midland, Texas, 79702 | |
| 4. TYPE OF SERVICE: <input type="checkbox"/> REGISTERED <input type="checkbox"/> INSURED <input checked="" type="checkbox"/> CERTIFIED <input type="checkbox"/> COB P 433 661 011 <input type="checkbox"/> EXPRESS MAIL | ARTICLE NUMBER |
| (Always obtain signature of addressee or agent) | |
| I have received the article described above. | |
| SIGNATURE <input type="checkbox"/> Addressee <input type="checkbox"/> 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

TONEY 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:

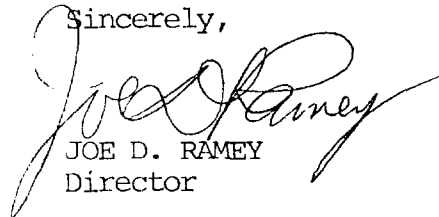
We have received the additional data needed to grant administrative approval for injection into the subject well. However, two of the requested items were missing and are required to complete the administrative process.

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,


JOE D. RAMEY
Director

JDR/jc