

PARTNERS

CARLTON BEAL

CARLTON BEAL, JR.

BARRY BEAL

SPENCER BEAL

KELLY BEAL

BTA OIL PRODUCERS

IO4 SOUTH PECOS
MIDLAND, TEXAS 79701-9988
AC 915-682-3753

January 15, 1987

Re: BTA - Application for Water Injection

Buckeye -B-, 8601 JV-P, Well No. 2

Case 9077

Section 36, T-17-S, R-35-E Lea County, New Mexico

STATE OF NEW MEXICO Energy & Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87504-2088

Attention: Mr. David Catanach

Mr. Catanach,

Enclosed please find an original and one copy of our Water Injection Well Application on the above referenced well.

Please have set for hearing at the earliest date available.

Please advise if further information is necessary.

Sincerely,

DOROTHY HOUGHTON

For BTA Oil Producers

DH:ss

Enclosures

of the earlier submittal.

OIL CONSERVATION DIVISION POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501

FURM C-108 Revised 7-1-81

| PPLIC | ATION FOR AUTHORIZATION TO INJECT |
|-------|--|
| I. | Purpose: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? yes Xno |
| II. | Operator: BTA Oil Producers |
| | Address: 104 South Pecos; Midland, TX 79701 |
| | Contact party: Dorothy Houghton Phone: 915/682-3753 |
| 111. | Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary. |
| IV. | Is this an expansion of an existing project? |
| ٧. | Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review. |
| VI. | Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail. |
| vii. | Attach data on the proposed operation, including: |
| | Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.). |
| 111. | Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval. |
| IX. | Describe the proposed stimulation program, if any. |
| х. | Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.) |
| XI. | Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken. |
| XII. | Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water. |
| III. | Applicants must complete the "Proof of Notice" section on the reverse side of this form. |
| XIV. | Certification |
| | I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief. |
| | Name: Dorothy Houghton Title Regulatory Supervisor |
| | Signature: Doyally Woughton Title Regulatory Supervisor Date: 1-15-87 |

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance

BTA OIL PRODUCERS

Buckeye -B-, 8601 JV-P
Well No. 2-SWD
Form C-108 Attachment Data Sheet
-G-, Sec. 36, T-17-S, R-35-E
Lea County, New Mexico

- III. Well Data: See Attached Data Sheet, Exhibit A-1, and Schematic, Exhibit A-2
 - V. The attached map identifies all wells and leases within two miles of our proposed injection well. See Exhibit B
 - VI. Well Data in Area of Review:

BTA - Buckeye -B-, 8601 JV-P, Well No. 1

Type: Abo - oil producer

Construction:

13-3/8" 54.5# J-55 casing @ 400' w/450 sx

circulated to surface.

8-5/8" 24 & 32# K-55 casing @ 4400' w/1800 sx circulated to surface.

5-1/2" 17# N-80 and K-55 casing @ 9987' w/1500 sx TOC @ 1300'.

Spud Date: 7-9-86

Completion Date: 9-2-86

Location: 330' FNL and 660' FEL, Sec. 36, T-17-S, R-35-E

Depth: 9,987'

Record of Completion: Perf'd 9,326-9,351' (Abo) 26 holes A/w 11,000 gal + ball sealers

Sunray - N.M. State "AC", Well No. 1

Type: Dry Hole Construction:

13-3/8" 48# casing @ 358' w/375 sx circulated to surface 8-5/8" 24 & 32# J-55 and H-40 casing @ 3706'

w/2140 sx. Circulated to surface.

Spud Date: 7-6-61

Completion Date: 9-26-61 (P&A)

Location: -C-, Sec. 36, T-17-S, R-35-E

Depth: 9,156' Plugging Record:

- 1. Spotted 40 sx plug 8588-8723'
- Spotted 40 sx plug 5415-5580'
- 3. Spotted 40 sx plug 4605-4770'
- 4. Spotted 70 sx plug 3517-3720'
- 5. Spotted 10 sx plug @ surface
- See Attached Schematic Exhibit C-1

Texas Pacific - State "AB", Well No. 1 Type: Abandoned oil well Construction:

13-3/8" 48# casing @ 333' w/350 sx circulated to surface 8-5/8" 32# casing @ 4531' w/2100 sx circulated to surface 5-1/2" 17# casing @ 9040' w/300 sx Spud Date: 2-26-61

Completion Date: 4-20-61

Location: 1980' FNL and 660' FWL, Sec. 36, T-17-S, R-35-E

Depth: 9,040'

Record of Completion: Perf'd 8,871'-8,916' A/w 11,500

gals acid. Prod. 38 B/O, 251 B/W

Plugging Record:

Spotted 50 sx plug 8334-8709' 1.

Shot off 5-1/2" csg @ 7036' 2.

3. Spotted 25 sx pluq @ 7036'

Spotted 25 sx plug @ 6630'

5. Spotted 25 sx plug @ 4531'

Spotted 10 sx pluq @ surface

P&A 7-29-68

See Attached Schematic - Exhibit C-2

- VII. 1. Estimated average maximum daily rate will be 1,000 bbls per day.
 - 2. The system will be closed.
 - The proposed average maximum injection pressure will 3. be 750 psi.

The source of produced water will be the Abo.

- Exhibit D-1, Water analysis of produced water from Abo formation. Exhibit D-2, Water analysis from proposed injection well.
- VIII. Geological Data on the Injection Zones:

Geological Name: Abo

Lithological Detail: Porous dolomite

Thickness: 250'

Depth: 9,300' to 9,580'

Geological Data of Drinking Water Zone:

The underground source of drinking water overlying the zone of disposal is the Ogallala, which occurs from 50 to 250 feet and is approximately 200 feet thick.

IX. Proposed Stimulation program: Acidize with 5,000 gal. 15% HCl.

- X. Logs on our proposed injection well are enclosed with test detail and formation tops marked.
- XI. Attached Exhibit -E- is a water analysis of the closest fresh water well located 1/2 mile Northeast of our proposed injection well.
- XII. After examining all available geological and engineering data, we find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. A copy of our application has been furnished by certified mail to the surface owners, State of New Mexico, Commissioner of Public Lands and to each leasehold operator within one-half mile of our proposed injection well. See listing on Exhibit -F-.

EXHIBIT A-1

BTA OIL PRODUCERS Buckeye -B-, 8601 JV-P Well No. 2 1,980' FNL and 1,980' FEL Unit Ltr. G, Sec. 36, T17S, R35E Lea County, New Mexico

Injection Well Data Sheet

Surface Casing:

13-3/8" @ 425' Cemented w/450 sx

Circulated to surface Hole size 17-1/2"

Intermediate Casing: 8-5/8" @ 3,500' Cemented w/1400 sx

Circulated to surface

Hole size 11"

Long String:

5-1/2" @ 9,300' Cemented w/2200 sx

Circulated to surface

Hole size 7-7/8"

Total Depth:

9,580'

Injection interval: Open hole from 9,300' to 9,580'

Tubing:

2-7/8" N-80 6.5# 8RD plastic coated tbg

Baker Lok-set pkr @ 9,200'

OTHER DATA:

Name of Injection formation: Abo

Field Name:

Double -A- Abo, South

Purpose of well:

The well was drilled by Amoco Prod. Co. as "State SA" #1 for a producing well

Perforated Intervals:

9080'-9049'; 9120'-9157'; 4974'-4998'; 5075'-5084'

Sqzd perfs 4974'-5084' w/200 sx Cl -C-

sqzd to 2500 psi and rev. out 4 bbls.

Sazd perfs 9080'-9157 w/100 sx Cl -Hsqzd to 5000 psi and rev. out 70 sx

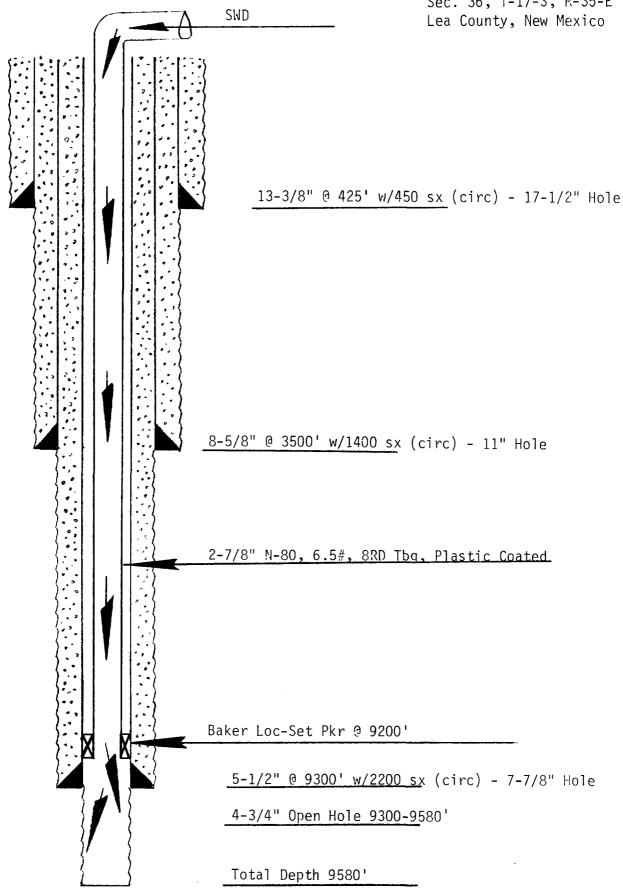
(30 sx in formation)

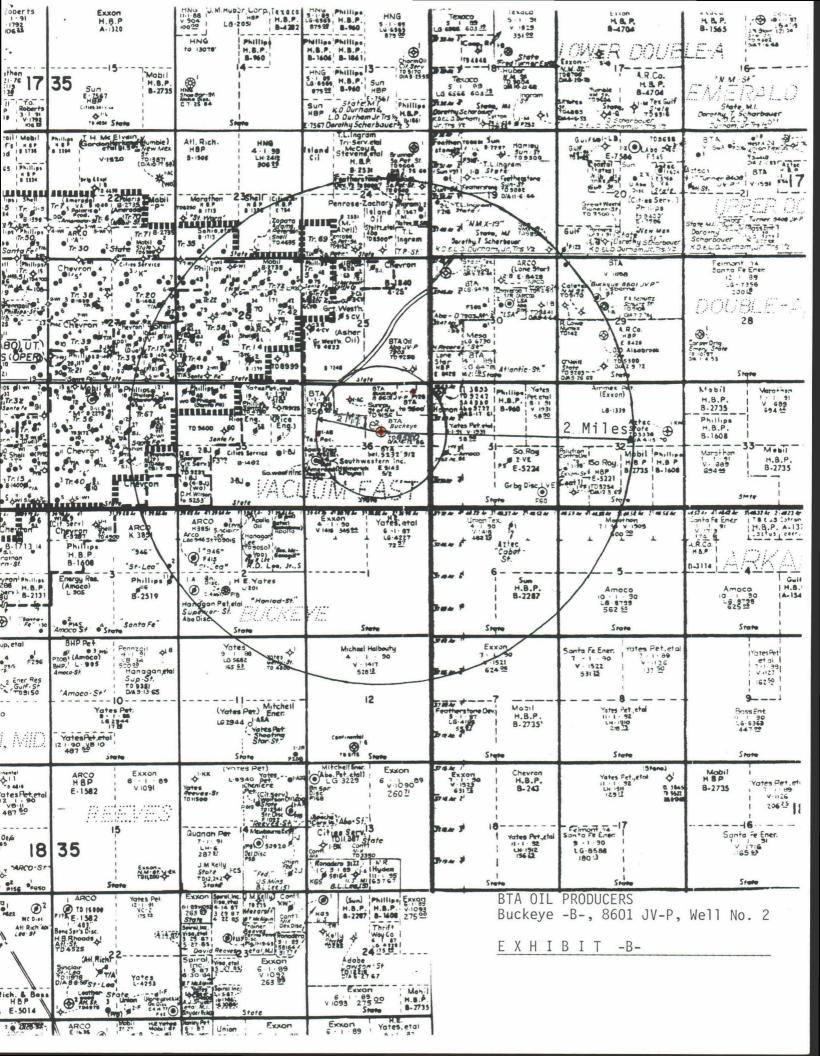
.. - .. -

Depth and name of overlying and/or underlying oil or gas zones in this area:

| NAM | <u>E</u> | DEPTH |
|-----|----------|--------|
| Abo | Shale | 8,207' |
| Abo | Detrital | 9,068' |

BTA 0il Producers
Buckeye "B", 8601 JV-P #2
1980' FN&EL
Sec. 36, T-17-S, R-35-E





Sunray Mid-Continent Oil Company NM State "AC" UL "C" Sec. 36, T-17-S, R-35-E Lea County, New Mexico PAA 9-26-61

| | | <u> </u> | 10 sx Plug @ Surface | |
|---|---|----------|--|----------------|
| | | | <u>13-3/8" @ 358' w/375 sx (cir</u> c) - | - 17-1/2" Hole |
| | | | 70 sx Plug 3517-3720' | |
| | | } _ | 8-5/8" @ 3706' w/2140 sx (circ) | - 11" Hole |
| | | | 40 sx Plua 4605-4770' | - |
| | | | 40 sx Plug 5415-5580' | - |
| | | | 40 sx Plug 8588-8723' | |
| { | } | Total | Depth 9156' - 7-7/8" Hole | |

| 193 | : 1:5. | 10 sx @ Surface |
|------------|--------|---|
| | | 13-3/8" @ 333' w/350 sx (circ) 17-1/4" Hole |
| | | 25 sx @ 4531' 8-5/8" @ 4531' w/2100 sx (circ) 12-1/4" Hole |
| | | 25 sx @ 6630' |
| | | 25 sx @ 7036' Shot 5-1/2" Csg @ 7036' |
| | | 50 sx 8334-8709' Perfs 8871-8916' |
| | J | TD 9040' 5-1/2" @ 9040' w/300 sx 7-7/8" Hole |

Martin Water Laboratories, Inc.

P. O. BOX 1468 MONAHANS, TEXAS 79756 PH. 843-3234 OR 563-1040

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

RESULT OF WATER ANALYSES

| | LA | BORATORY NO | 98659 | | | |
|---|-----------------------|----------------|--------------|---|--|--|
| TO:Mr. Steve Salmon | SA | MPLE RECEIVED | 9-9-86 | | | |
| 104 South Pecos, Midland, Texas | | SULTS REPORTE | 9-11-86 | | | |
| | | SULTS REPORTE | J <u> </u> | | | |
| COMPANY BTA 011 Producers | LEASE . | 8601 JV-P B | uckeve "B" # | ; | | |
| | N L : | 1 - A / A1 - N | | | | |
| SECTION 36 BLOCK T175 SURVEY R35E | COUNTY | Lea | NM | | | |
| SOURCE OF SAMPLE AND DATE TAKEN: | COUNTY | | 1A1E | , , , , , , , , , , , , , , , , , , , | | |
| No. 1 Produced water - taken from | Ruckeve "R" | <i>!</i> 1 | | | | |
| No. 1 ITOURCEU WALET - CARETI TTOM | buckeye b | , ± • | | | | |
| NO. 2 | | | | | | |
| NO. 3 | | | | · | | |
| NO. 4 | | | | | | |
| REMARKS: | Abo | | | | | |
| | AND PHYSICAL F | ROPERTIES | | | | |
| | NO. 1 | NO. 2 | NO. 3 | NO. 4 | | |
| Specific Gravity at 60° F. | 1.1490 | | | | | |
| pH When Sampled | | | | | | |
| pH When Received | 6.40 | | | | | |
| Bicarbonate as HCO3 | 952 | | | | | |
| Supersaturation as CaCO3 | | | | | | |
| Undersaturation as CaCO3 | | | | | | |
| Total Hardness as CaCO3 | 66,000 | | | | | |
| Calcium as Ca | 18,400 | | | | | |
| Magnesium as Mg | 4,860 | | | | | |
| Sodium and/or Potassium | 61,494 | | | | | |
| Sulfate as SO4 | 607 | | | | | |
| Chloride as Cl | 140,618 | | | | | |
| Iron as Fe | 23.0 | | | | | |
| Barium as Ba | | | | | | |
| Turbidity, Electric | | | | | | |
| Color as Pt | | | | | | |
| Total Solids, Calculated | 226.931 | | | | | |
| Temperature °F. | | | | | | |
| Carbon Dioxide, Calculated | | | | | | |
| Dissolved Oxygen, Winkler | • | | | | | |
| Hydrogen Sulfide | 0.0 | | | | | |
| Resistivity, ohms/m at 77° F. | 0.052 | | | | | |
| Suspended Oil | | | | | | |
| Filtrable Solids as mg/ | | | | | | |
| Volume Filtered, ml | | | | | | |
| | | | | | | |
| | | | | | | |
| | <u> </u> | | | | | |
| | Reported As Milligram | | | | | |
| Additional Determinations And Remarks We do not have Atoka recorded in this field, but we do have | | | | | | |
| records in the immediate surrounding area. In studying these records, we note that | | | | | | |
| the Abo in the area does vary sign | | | | | | |
| water correlates well with one of | | | | . We con- | | |
| sider this at least a strong impli | cation that t | his is natura | L Abo water. | | | |
| | | | ····· | | | |
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Form No. 3

Waylan C. Martin, M. A.

EXHIBIT D-2

P. O. BOX 1468 MONAHANS, TEXAS 79756 PH. 943-3234 OR 563-1949

Martin Water Laboratories, Inc.

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

RESULT OF WATER ANALYSES

| | . 40 | ORATORY NO | 1286195 | |
|---|---|--|---------------|---------------------------------------|
| Hr. O.V. Sivage | | | 12-19-55 | |
| 104 Jours Fotos, Maland, Ter | XAS RES | PLE RECEIVED ULTS REPORTEI | 17-77-86 | ···· |
| | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | oe is neponie | | |
| COMPANY BEA GIL Producers | LEASE | 8601 JV-P 1 | Buckeye | |
| | Double A. Se | uth (Abo) | | |
| FIELD OR POOL TITS SURVEY R35 | E COUNTY | Lea s | TATE NM | |
| SOURCE OF SAMPLE AND DATE TAKEN: | | | | |
| NO. 1 Produced water - taken | from Buckeye "B" #2 | . 12-18-86 | _ | |
| | | | | |
| NO. 2 | | | | |
| NO. 3 | | | | |
| NO. 4 | Abo - 9,300 | - 6 4461 | | |
| REMARKS: | 250 - 7,300 | - 7,4/0 | | |
| CHE | MICAL AND PHYSICAL PR | OPERTIES | | |
| | NO. 1 | NO. 2 | NO. 3 | NO. 4 |
| Specific Gravity at 60° F. | 1,0844 | | | |
| pH When Sampled | | | | |
| pH When Received | 205 | | ļ | |
| Bicarbonate as HCO3 | 203 | | | |
| Supersaturation as CaCO3 | | | ļ | |
| Undersaturation as CaCO3 Total Hardness as CaCO3 | 32,500 | | | |
| Calcium as Ca | 10,400 | ······································ | | |
| Magnesium as Mg | 1,580 | | | |
| Sodium and/or Potassium | 33,573 | | | |
| Sulfate as SO4 | 1,128 | · · · · · · · · · · · · · · · · · · · | | · |
| Chloride as Cl | 73,860 | | | |
| Iron as Fe | 164 | | | |
| Barium as Ba | | | | |
| Turbidity, Electric | | | | |
| Color as Pt | | | | |
| Total Solids, Calculated | 120.745 | | | |
| Temperature °F. | | | | |
| Carbon Dioxide, Calculated | | | | |
| Dissolved Oxygen, Winkler | | ··· | | |
| Hydrogen Sulfide | 0.0 | | | · · · · · · · · · · · · · · · · · · · |
| Resistivity, ohms/m at 77° F. | 0.082 | | | |
| Suspended Oil | | | | |
| Filtrable Solids as mg/ | | | | |
| Volume Filtered, ml | | | | |
| | | · · · · · · · · · · · · · · · · · · · | | |
| | | | | |
| | Results Reported As Milligrams | Per Liter | L | |
| Additional Determinations And Remarks | he above results sho | | latica that d | o not cor- |
| relate with our Abe records | in this area. However | er, based or | a compariso | n with these |
| records, we can see the poss | ibility that this co | uld be part | Lally Abo wat | er, |
| | | | | |
| | | | | |
| | | | | |
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| | | | | |
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Form No. 3

Waylan C. Martin, M.A.

Martin Water Laboratories, Inc.

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

P. O. BOX 1468 MONAHANS, TEXAS 79756 PM 943-3234 OR 563-1040

RESULT OF WATER ANALYSES

| | ŀΔ | BORATORY NO | 18798 | |
|--|------------------------------|---------------------------------------|---------------|------------|
| то:Mr. Royce Boyce | SAN | ADLE BECEIVED | 1-13-87 | |
| TO: Mr. Royce Boyce 104 South Pecos, Midland, Texas | 3AF | WPLE RECEIVED | 1-14-87 | |
| | | | | ······ |
| COMPANY BTA 0il Producers FIELD OR POOL 660' FSL SECTION 25 BLOCK SURVEY T-175 | LEASE _ | 7903 JV-P A | oo #1 | |
| ELEL D OR BOOL 660' FSL | & 660' FEL D | ouble A (Abo |) | |
| SECTION 25 BLOCK SURVEY T-17S | &R-35E COUNTY | Lea s | TATE NM | |
| SOURCE OF SAMPLE AND DATE TAKEN: | COUNTY | | 1AIC | |
| NO. 1 Raw water - taken from wa | ter well. | | | |
| | | | | |
| NO. 2 | | | | |
| NO. 3 | | | | |
| NO. 4 | D-411-1 0 2 | 0.70 | | |
| REMARKS: | Drilled 8-3 | | | |
| CHEMIC | CAL AND PHYSICAL P | ROPERTIES | | |
| | NO. 1 | NO. 2 | NO. 3 | NO. 4 |
| Specific Gravity at 60° F. | 1.0023 | | | |
| pH When Sampled | | | | |
| pH When Received | 6.91 | | | |
| Bicarbonate as HCO3 | 203 | | | |
| Supersaturation as CaCO3 | | | | |
| Undersaturation as CaCO3 | 016 | | | |
| Total Hardness as CaCO3 | 216 | | | |
| Calcium as Ca | 74 | | | |
| Magnesium as Mg | 47 | | | |
| Sodium and/or Potassium | 66 | | | |
| Sulfate as SO4 Chloride as CI | 60 | | | |
| Iron as Fe | 2.0 | | | |
| Barium as Ba | 2.0 | | | |
| Turbidity, Electric | | | | |
| Color as Pt | | | | |
| Total Solids, Calculated | 457 | | | |
| Temperature °F. | | | | |
| Carbon Dioxide, Calculated | | · · · · · · · · · · · · · · · · · · · | | |
| Dissolved Oxygen, Winkler | | | | |
| Hydrogen Sulfide | 0.0 | | | |
| Resistivity, ohms/m at 77° F. | 17.50 | | | |
| Suspended Oil | | | | |
| Filtrable Solids as mg/ | | | | |
| Volume Filtered, ml | | | | |
| | | | | |
| | | | | |
| | | | | |
| | sults Reported As Milligrams | | | |
| | undersigned cert | ifies the ab | ove to be tru | e and cor- |
| rect to the best of his knowled | ge and belief. | | | |
| | | | | |
| | | | | |
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| | · | | | |

Form No. 3

W. Reagan/White, B.S.

EXHIBIT -F-

List of Offset Operators and Surface Owners

BTA Oil Producers
Buckeye -B-, 8601 JV-P
Well No. 2
Lea County, New Mexico

Great Western Drilling Co. P. O. Box 1659 Midland, Texas 79702

Chevron U.S.A., Inc. P. O. Box 1150 Midland, Texas 79702

Yates Petroleum 105 South Fourth Street Artesia, New Mexico 88210

Surface Owners:
R. D. Lee, Jr.
Bill Lee
P. O. Box 363
Lovington, New Mexico 88260

State of New Mexico Commissioner of Public Lands P. O. Box 1148 Santa Fe, New Mexico 87501-1148

I hereby certify the above were mailed copies of our application on January 15, 1987.

Wordly Abuston

Dorothy Houghton

No. 939920 FECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL

(See Reverse)

| SE | Yates Petroleum | | | | | | | |
|-----------------------------|---|---|--|----|--|--|--|--|
| 1 1 | 105 S. Fourth St. | | | | | | | |
| P.O A | P.O., STATE AND ZIP CODE Artesia, NM 88210 | | | | | | | |
| POS | STAG | E | | \$ | | | | |
| | CEF | TIFI | D FEE | ¢ | | | | |
| EES | | SPE | CIAL DELIVERY | ¢ | | | | |
| 3 | | RES | TRICTED DELIVERY | ¢ | | | | |
| STER FO | OPTIONAL SERVICES | OPTIONAL SERVICES TURN RECEIPT SERVICE | SHOW TO WHOM AND DATE DELIVERED | ¢ | | | | |
| OSTMAS | | | SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY | ¢ | | | | |
| CONSULT POSTMASTER FOR FEES | | N RECE | SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY | ¢ | | | | |
| CON | | RETU | SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH ASSTRICTED DELIVER | ¢ | | | | |
| POS | TAL | POS | TAGE AND FEES |)s | | | | |
| PO | POSTMARIN OR DATE | | | | | | | |
| | | | | | | | | |
| 1 | | | 160 DAY | | | | | |
| | | | | | | | | |
| srs | | | | | | | | |

No. 939919 RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL

(See Reverse)

| | | | (OCC TICVEISC) | | | | | | |
|-----------------------------|--|----------------------|---|----|--|--|--|--|--|
| C | Chevron U.S.A., Inc. | | | | | | | | |
| ST P | STREET AND NO. P. O. Box 1150 | | | | | | | | |
| 1 | P.O., STATE AND ZIP CODE Midland, TX 79702 | | | | | | | | |
| РО | STAG | Ē | | \$ | | | | | |
| | CEF | RTIFIE | D FEE | ¢ | | | | | |
| S | | SPE | CIAL DELIVERY | ¢ | | | | | |
| E | | RES | TRICTED DELIVERY | ¢ | | | | | |
| STER FO | WICES | RVICE | SHOW TO WHOM AND DATE DELIVERED | ¢ | | | | | |
| OSTMA | OPTIONAL SERVICES | IPT SE | SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY | ¢ | | | | | |
| CONSULT POSTMASTER FOR FEES | OPTIO | TURN RECEIPT SERVICE | SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY | ¢ | | | | | |
| NOO | | RETUR | SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY | ¢ | | | | | |
| TC | TAL | POS | ASS IND FEES | \$ | | | | | |
| PC | STM | 40 | 98.48 | | | | | | |
| PO | | 1 | 16 15 | | | | | | |
| 1 | | 1 | (3) (b) | | | | | | |
| 1 | | 1 | | | | | | | |
| | rs | | W O | | | | | | |
| ľ | | | | | | | | | |

No. 939921 RECEIPT FOR CERTIFIED MAIL

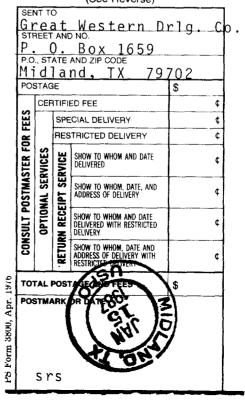
NO INSURANCE COVERAGE PROVIDED---NOT FOR INTERNATIONAL MAIL

(See Reverse)

| ſ | SEN R | T TC | ח | Lee, Jr./ | Rill 1 | еe | | | |
|-------------------------|---------------------------------------|-------------------|-------------|---|--------|----|--|--|--|
| | STREET AND NO. | | | | | | | | |
| ł | P.O. BOX 363 P.O., STATE AND ZIP CODE | | | | | | | | |
| - | Lovington, NM 88260 | | | | | | | | |
| | POSTAGE \$ | | | | | | | | |
| | | CER | TIFIE | D FEE | ¢ | | | | |
| | E | | SPE | CIAL DELIVERY | ¢ | | | | |
| | ₹ | | RES | TRICTED DELIVERY | ¢ | | | | |
| | CONSULT POSTMASTER FOR FEES | WICES | SERVICE | SHOW TO WHOM AND DATE DELIVERED | ¢ | | | | |
| | OSTMA | OPTIONAL SERVICES | | SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY | ¢ | | | | |
| | ISULT P | OPTIO | URN RECEIPT | SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY | ¢ | | | | |
| | NO3 | | RETUI | SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY | ¢ | | | | |
| PS Form 3800, Apr. 1976 | το | TAL | POS | AGE NOO FEES | \$ | | | | |
| pr. | PO | STM | ARK | OR DATE | | | | | |
| 0, A | Ì | , | j. | 1 41,21 | | } | | | |
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| E I | | | | C. | | | | | |
| 30 E | | | | | | | | | |
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No. 93918 RECEIPT FOR CERTIFIED MAIL NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL

(See Reverse)



BTA Oil Producers
Buckeye "B", 8601 JV-P #2
1980' FN&EL
Sec. 36, T-17-S, R-35-E
Lea County, New Mexico

SWD

RECEIVED

FEB 1 2 1987

OIL CONSERVATION DIVISION

13-3/8" 0 425' w/450 sx (circ) - 17-1/2" Hole

8-5/8" @ 3500' w/1400 sx (circ) - 11" Hole

PERF. SAN ANDRES 4974-98 5075-84

SQUEEZED W 200 6xs,

2-7/8" N-80, 6.5#, 8RD Tbg, Plastic Coated

PERF ABO 9080-94 4120-57 SQUEEZED LY 100 5x5. Baker Loc-Set Pkr 9 9200'

> <u>5-1/2" @ 9300' w/2200 sx</u> (circ) - 7-7/8" Hole <u>4-3/4" Open Hole 9300-9580'</u>

Total Depth 9580'

BTA Oil Producers
Buckeye "B", 8601 JV-P #2
1980' FN&EL
Sec. 36, T-17-S, R-35-E
Lea County, New Mexico

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BTA Oil Producers Buckeye "B", 8601 JV-P #2 1980' FN&EL Sec. 36, T-17-S, R-35-E Lea County, New Mexico

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LEA COUNTY, NEW MEXICO

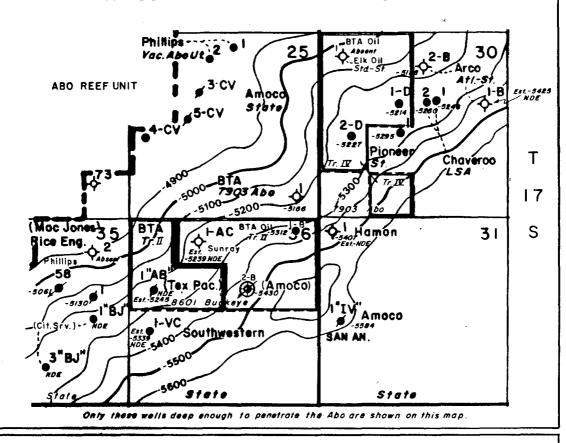
RECEIVED

FEB 12 1987

R-35-E

R-36-E

OIL CONSERVATION DIVISION



BTA OIL PRODUCERS

8601 JV-P BUCKEYE "B" 2 - SWD

NMOCC Case No. 9077 Exhibit No. _____ Date: 2-18-87

STRUCTURE MAP-TOP ABO DETRITAL

LEGEND

- Producing Oil Well
- Former Producer
- Proposed SWD Well
- Dry Hole

NDE Not Deep Enough

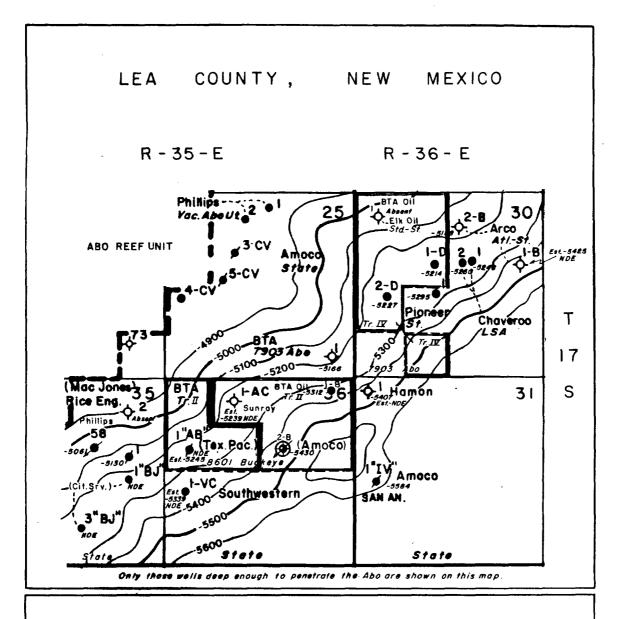
C.I.: 100'

BY: C.A.P.

SCALE : 1"=2000'

DATE: 1/29/87

DRAWN BY E.M.W.



BTA OIL PRODUCERS

8601 JV-P BUCKEYE "B" 2 - SWD

NMOCC Case No. 9077 Exhibit No. _____ Date: 2-18-87

STRUCTURE MAP-TOP ABO DETRITAL

LEGEND
Producing Oil Well
Former Producer
Proposed SWD Well
Ory Hole
NDE Not Deep Enough

C.I.:100' BY:C.A.P. SCALE: 1"=2000' DATE: 1/29/87 DRAWN BY E.M.W.