

BTA OIL PRODUCERS

PARTNERS
CARLTON BEAL, JR.
BARRY BEAL
SPENCER BEAL
KELLY BEAL
BARRY BEAL, JR.

104 SOUTH PECOS MIDLAND TEXAS 79701-9988 AC 915-682-3753

July 7, 19**87**

Re: BTA - Application for Salt Water Disposal Byers, 8605 JV-P, Well No. 2

Sec. 23, T20S, R35E

Lea Co., N.M.

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 Salt Water Disposal Application on the above referenced well.

Please have set for hearing at the earliest date available.

We will forward copies of the Certified Mail receipts as soon as they are returned to us.

Please advise if further information is required.

Sincerely,

DOROTHY HOWUGHTON

For BTA Oil Producers

DH:ss

Enclosures

JUL - 9 1987

OIL CONSERVATION DIVISION SANTA FE

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| APPL | ICATION | FOR | AUTHORIZATION | TO | INJECT |
|------|---------|-----|-------------------|----|--------|
| | | | TO LIION LEWI LOW | | 1110 |

| | , . | ion qualifies for administrativ BTA Oil Producers | e approval?yesyno | | |
|-------|---|---|---|--------------------------------------|--|
| ·II. | Operator: _ | | | | |
| | Address: | 104 South Pecos; Midland, | | | |
| | Contact part | ty: Dorothy Houghton | Phone: 915/682-3753 | | |
| III. | Well data: | Complete the data required on proposed for injection. Addit | the reverse side of this form for eational sheets may be attached if nece | ach well essary. | |
| 17. | | expansion of an existing projec e the Division order number aut | | · • | |
| ٧. | injection we | o that identifies all wells and ell with a one-half mile radius circle identifies the well's a | leases within two miles of any proposed in circle drawn around each proposed in the contract of review. | oosed injection | |
| VI. | <pre>penetrate th well's type,</pre> | ne proposed injection zone. Sur | f public record within the area of rech data shall include a description ocation, depth, record of completion all plugging detail. | of each | |
| VII. | Attach data | on the proposed operation, inc | luding: | | |
| | 2. Whet 3. Prop 4. Sour th 5. If i at | ther the system is open or close osed average and maximum injectes and an appropriate analysical receiving formation if other injection is for disposal purpose or within one mile of the property. | tion pressure; s of injection fluid and compatibili than reinjected produced water; and ses into a zone not productive of oi cosed well, attach a chemical analys c (may be measured or inferred from | ity with d il or gas sis of | |
| 1111. | <pre>detail, geol bottom of al total dissol</pre> | ogical name, thickness, and de I underground sources of drink ved solids concentrations of l one as well as any such scurce | injection zone including appropriate oth. Give the geologic name, and deing water (aquifers containing water 1,000 mg/l or less) overlying the process to be immediately underlying t | epth to rs with roposed | |
| IX. | Describe the | e proposed stimulation program, | if any. | | |
| х. | Attach appro | opriate logging and test data on vision they need not be mesubmin | n the well. (If well logs have been ted.) | filed | |
| 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. | examined ava | ilable geologic and engineering | affirmative statement that they hav g data and find no evidence of open the disposal zone and any undergrou | faults | |
| 111. | Applicants m | ust complete the "Proof of Not. | ice" section on the reverse side of | this form. | |
| XIV. | Certificatio | ın | • | | |
| | | tify that the information subm. of my knowledge and belief. | tted with this application is true | | |
| | Name: | Dorothy Houghton | Title Regulatory Supe | rvisor | |
| | Signature: | Gerethy Glering | ou Date: 7/7/87 | | |

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement user, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining materia., and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical well: may submit a "typical data sheet" rather than submitting the data for each well.

- 8. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells reed be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 vithin 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HA; BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

BTA (ii) Producers Byers, 8605 JV-P Well No. 2-SWD Form C-108 Attachment Data Sheet -G-, Sec. 23, T20S, R35E Lea Co., N.M.

- III. Well Data: See Attached Data Sheet, Exhibit A-1 and Schematic, Exhibit A-2
 - The attached map, Exhibit -B-, identifies all wells and ٧. leases within two miles of our proposed disposal well, also the one-half mile area of review.
 - Well Data in Area of Review: VI.

BTA - Byers, 8605 JV-P, Well No. 1 Type: Wolfcamp - gas well

Construction:

13-3/8" 54.5# @ 590' w/650 sx circulated to surface 8-5/8" 24 & 32# @ 4,394' w/1600 sx circulated to surface 5-1/2" 17# 0 11,820' w/2000 sx circulated to surface

Spud Date: 11-8-86

Completion Date: 12-29-86

1,830' FNL and 660' FEL Location: Sec. 23, T-20-S, R-35-E

Total Depth: 11,820'

Record of Completion: Producing through perforations @ 11,428'-11,440' A w/200 gals.

Amoco - Heller Co. Trust Com "A" #1 Type: Wolfcamp - oil producer

Construction:

16" @ 600' w/725 sx circulated to surface

10-3/4" @ 4,305' w/3500 sx circulated to surface

DU Took at 7-5/8" @ 11,830' w/2300 sx —— 200 st. 1400 st. onforp Charletel to onforp 5-1/2" liner 11,529-12,714' w/300 sx

4" liner 12,360-13,387' w/350 sx

Spud Date: 5-15-85

Completion Date: 6-4-85

2,180' FNL and 660' FWL Location: Sec. 24, T-20-S, R-35-E

Total Depth: 13,400'

Record of Completion: Producing through perforations @ 11,326-11,436' A w/12,500 gals

Amoco - Best Gas Com #2 Type: Abandoned oil well

VII.

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Construction:
  13\text{-}3/8^{\circ} @ 615' w/600 sx circulated to surface 8-5/8" @ 4,516' w/2800 sx circulated to surface
  5-1/2" @ 11,803' w/825 sx
Spud Date: 7-20-83
Completion Date: 1-4-84
Location: 840' FSL and 660' FEL
            Sec. 23, T20S, R35E
Total Depth: 11.803'
Record of Completion:
  Perforation @ 11,322-11,552'
  Set CIBP @ 11,250' w/35 sx
  Perf'd 10,754-10,788'
  Set CIBP @ 10,000'
  Produced from perforations @ 9,744-9,832' (Bone Springs)
  Plugging Record:
        Set 5-1/2" CIBP @ 9,650' 35' cmt
       Cut casing @ 7,400'
    2.
       Spotted 100 sx @ 7,446'
    3.
    4. Spotted 65 sx @ 4,566'
    5. Spotted 30 sx @ 665'
       Spotted 10 sx Surface
    6.
   See Exhibit -C- Schematic
Amoco - Watkins -B- Gas Com #1
Type: Morrow - gas producer
Construction:
  16" @ 431' w/425 sx circulated to surface
  10-3/4" @ 4,319' w/4250 sx circulated to surface 7-5/8" @ 11,456' w/1725 sx - Do 700 of 76/6"
                                             Too of a195 by TS
  4-1/2" liner 10,929-13,580' w/500 sx
Spud Date: 7-24-81
Completion Date: 2-7-82
Location: 1,980' FSL and 1,980' FWL
            Sec. 23, T-20-S, R-35-E
Total Depth: 13,588'
Record of Completion: Producing through perforations @
13,169-13,423' A/6500 gal.
1. Estimated average maximum daily rate will be 400 barrels
   per day.
2. The system will be closed.
3. The proposed average maximum pressure will be 2500 psi.
4. The source of produced water will be the Wolfcamp.
5. Exhibit D-1, Water analysis of produced water from
   Wolfcamp formation. Exhibit D-2, Water analysis from our
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VIII. Geological Name: Queen Lithological Detail: Red and grey sand and shale

Pearl #1 well, producing from the Pearl Queen field.

Form C-108 Attachment July 7, 1987

Thickness: 726'

Depth: 4,290'-5,016'

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 zone with 2500 gallons 15% HCl.

- X. Logs were previously filed by Amoco on this well.
- XI. There are no fresh water wells located within one mile of our proposed disposal 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 owner and to each leasehold operator within one-half mile of our proposed injection well. See listing on Exhibit -E-.

BTA Dil Producers
Byers, 8605 JV-P
Well No. 2
1980' FNL & 1780' FEL
Unit Ltr G, Sec. 23, T20S, R35E
Lea Co., N.M.

INJECTION WELL DATA SHEET

Surface Casing: 16" @ 597' w/725 sx circulated to surface

Intermediate Casing: 10-3/4" @ 4,300' w/3400 sx

circulated to surface

Long String: 7-5/8" @ 11,479' w/2225 sx

Liner: 5-1/2" 10,994'-12,870' w/250 sx

Total Depth: 13,570'

Injection Interval: 4,842'-4,868'

Tubing: 2-7/8" fiberglass tubing

Baker Loc-Set packer @ 4,800'

Name of injection formation: Queen

<u>Field</u>: Undesignated Queen

Purpose of well:

The well was drilled by Amoco Prod.

Co. as Best Gas Com #1 in the Osudo

(Morrow) field. Re-entered 7-30-85. Amoco attempted Wolfcamp and Queen

re-completions.

Perforated Intervals: CIBP @ 12,170'

11,423-11,483' CIBP @ 11,300' w/35 cmt

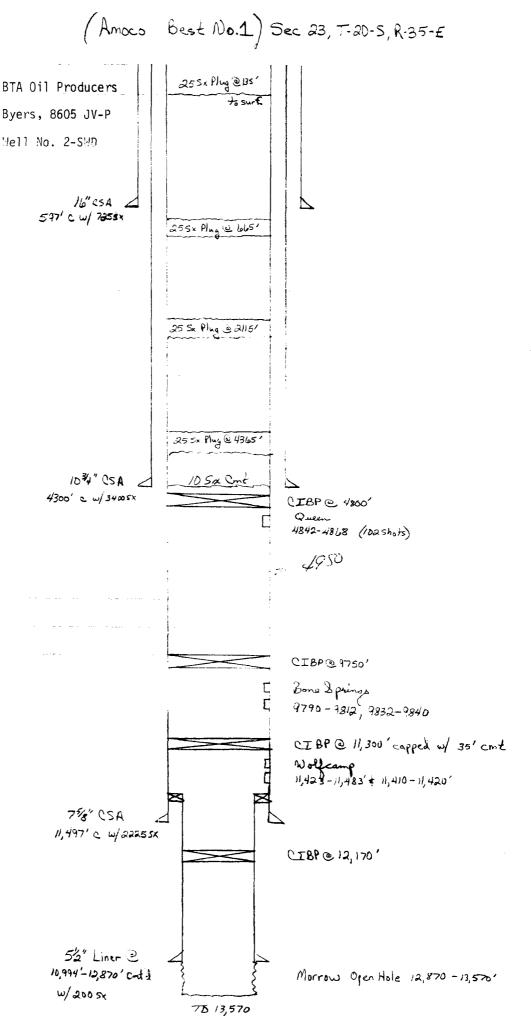
11,410-11,420'

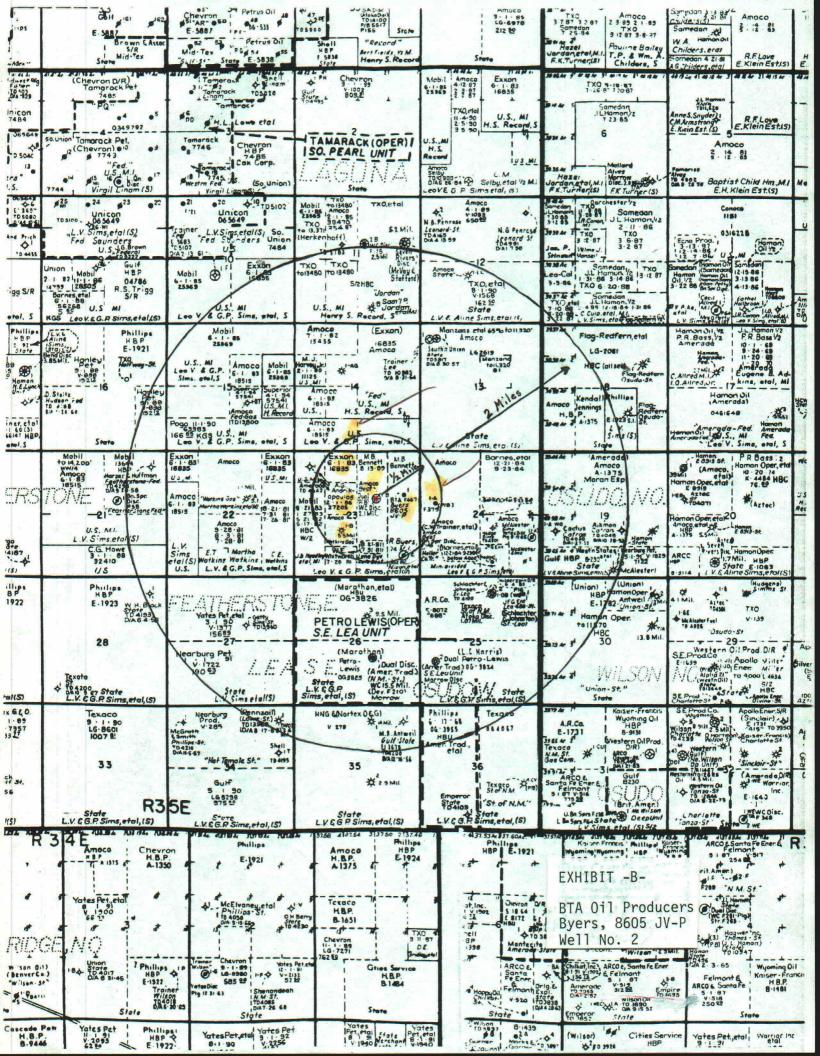
9,790-9,840' CIBP @ 9,750'

4,842-4,868' CIBP @ 4,800'w/10 sx cmt

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

| Nam e | Depth |
|----------------------|---------|
| Bone Springs (Oil) | 9,800' |
| Wolfcamp (Oil & Gas) | 11,400' |
| Morrow (Gas) | 12,800' |





Amoco Best No. R Sec 23 - 7-20-5, R-35-E

| i | 1777777777777 | | |
|--|--|---------------------------------------|---------------------------------------|
| BTA Oil Producers | | 10 x Plug @ Surface | |
| Byers, 8605 JV-P | | | |
| Well No. 2 | | | |
| 13%" (SA) 615' w/600 sx | | 30 5x Plug @ 665' | |
| | | | |
| : | | <u>)</u> | - • • • • |
| | | <i></i> | - consists continue representative or |
| | | | |
| | | | |
| 3%° CSA | 4////////// | 65 Sx Plug @ 4566' | |
| 4516' w/2800 SX | | | |
| | | | |
| · | (| | |
| | HALL | 100 Sx Plug @ 7446' | |
| | | | |
| | | CIBP @ 9650' w/35'cmt | |
| | ······································ | Bone Springs 9744-9832V | |
| And the second s | | CIBP @ 10,000' | |
| 1 | | Wolfcamp 10,754 - 788 | |
| | | . CIBP@ 11,250' w/ 35 M. | |
| | | Wolfcanp 11,322-11,552 | |
| 55° CSA 11,803'w/825 | , | | |
| 11,000 W/ 8&3 | | · · · · · · · · · · · · · · · · · · · | |

Martin Water Laboratories, Inc.

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

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

RESULT OF WATER ANALYSES

| | t | ABORATORY NO | 587314 | | |
|---|-------------------------|-----------------------------|--------------|---------------------------------------|--|
| To: Mr. Tom Williams | | SAMPLE RECEIVED | | | |
| 104 South Pecos, Midland, Texas | | RESULTS REPORTED 5-22-87 | | | |
| nm4 a.4 m .4 | | | | | |
| COMPANY BTA Oil Producers | LEASE | 8605 JV-P thwest (Wolfca | Byers #1 | | |
| FIELD OR POOL | | | | | |
| SECTION BLOCK SURVEY | COUNTY | Lea s | TATE NH | | |
| SOURCE OF SAMPLE AND DATE TAKEN: | | | | | |
| NO. 1 Produced water - taken fro | m Byers #1. | 5-20-87 | | · · · · · · · · · · · · · · · · · · · | |
| NO. 2 | | | | | |
| NO. 3 | | | | | |
| NO. 4 | | | | | |
| REMARKS: | | | | | |
| CHEMICA | L AND PHYSICAL | PROPERTIES | | | |
| | NO. 1 | NO. 2 | NO. 3 | NO. 4 | |
| Specific Gravity at 60° F. | 1.0730 | | | | |
| pH When Sampled | | | | | |
| pH When Received | 6.23 | | | | |
| Bicarbonate as HCO3 | 451 | | | | |
| Supersaturation as CaCO3 | | <u> </u> | | | |
| Undersaturation as CaCO3 | | | <u></u> | | |
| Total Hardness as CaCO3 | 10,600 | | | | |
| Calcium as Ca | 3.240 | | | | |
| Magnesium as Mg | 608 | | ļ | | |
| Sodium and/or Potassium | 41,050 | | | | |
| Sulfate as SO4 | 2,246 | | | | |
| Chloride as Cl | 68,883 | | | | |
| Iron as Fe | 28.8 | | <u> </u> | | |
| Barium as Ba | | | | | |
| Turbidity, Electric | | | | | |
| Color as Pt | 116 /00 | | | | |
| Total Solids, Calculated Temperature °F. | 116,483 | | | | |
| Carbon Dioxide, Calculated | | | | | |
| Dissolved Oxygen, Winkler | | | - | | |
| Hydrogen Sulfide | 0.0 | | | | |
| Resistivity, ohms/m at 77° F. | 0.083 | | | | |
| Suspended Oil | 0.00. | <u></u> | | | |
| Filtrable Solids as mg/I | | | | | |
| Volume Filtered, ml | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Resul | ts Reported As Milligra | ıms Per Liter | | | |
| Additional Determinations And Remarks In comparing the above with the last water from this well | | | | | |
| reported on laboratory \$1286208 (12-24-86), we see a very slight increase in all | | | | | |
| the dominant salts. However, the basic water characteristics still remain reason- | | | | | |
| ably comparable to this previous analysis and also the water from this well that was | | | | | |
| reported on laboratory #1286194 (12-22-86). As previously stated, we do not have | | | | | |
| good record of Wolfcamp in the immediate area, but the consistency does imply the | | | | | |
| likelihood of natural Wolfcamp water. | | | | | |
| | | | | | |
| | | | | | |

Form No. 3

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

Martin Water Laboratories, Inc.

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

RESULT OF WATER ANALYSES

| | 1 | LABORATORY NO | 7874 | |
|--|------------------------|---------------------------------------|---------------------------------------|---|
| TO: Mr. Tom Williams | SAMPLE RECEIVED 7-2-87 | | | |
| 104 South Pecos, Midland, Texas | | RESULTS REPORTED | 7-6-87 | |
| | | NESCE IS NEPONIED | | |
| COMPANY BTA 0il Producers | LEASE | Pearl | | |
| FIELD OR POOL | | | | |
| SECTION BLOCK SURVEY | COUNTY | Lea s | NM | |
| SOURCE OF SAMPLE AND DATE TAKEN: | 50014111 | | A1E | |
| NO. 1 Produced water - taken from | n Pearl #1. 7 | -1-87 | | |
| NO. 2 | | | | |
| | | | | |
| NO. 3 | | | · · · · · · · · · · · · · · · · · · · | |
| NO. 4 | | on | | |
| REMARKS: | Que | | | |
| CHEMICA | L AND PHYSICAL | PROPERTIES | | |
| | NO. 1 | NO. 2 | NO. 3 | NO. 4 |
| Specific Gravity at 60° F. | 1.1590 | | | |
| pH When Sampled | | | | |
| pH When Received | 7.10 | | | |
| Bicarbonate as HCO ₃ | 234 | | | |
| Supersaturation as CaCO3 | | | | |
| Undersaturation as CaCO3 | | | | |
| Total Hardness as CaCO3 | 53,000 | | | |
| Calcium as Ca | 10,600 | | | |
| Magnesium as Mg | 6,440 | | · · · · · · · · · · · · · · · · · · · | |
| Sodium and/or Potassium | 81,225 | | | |
| Sulfate as SO ₄ | 1,029 | | | |
| Chloride as CI | 161,923 | | | |
| Iron as Fe | 26.0 | | | |
| Barium as Ba | | | - | |
| Turbidity, Electric | | | | |
| Color as Pt | | | | |
| Total Solids, Calculated | 261,450 | | | |
| Temperature °F. | | | | |
| Carbon Dioxide, Calculated | | | ** | |
| Dissolved Oxygen, Winkler | | | | |
| Hydrogen Sulfide | 0.0 | | | ····· |
| Resistivity, ohms/m at 77° F. | 0.04 | .9 | | |
| Suspended Oil | | | | • |
| Filtrable Solids as mg/; | | | • • • | - |
| Volume Filtered, ml | | | | • |
| The second secon | | | | |
| | | | | |
| | | | | |
| Resul | ts Reported As Milligr | ams Per Liter | | |
| | | ifies the above | to be true | and correct |
| to the best of his knowledge and | | 11100 0110 00000 | <u> </u> | GRU COTTOCK |
| to the best of his knowledge die | T BULLUIT. | · · · · · · · · · · · · · · · · · · · | | |
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Form No. 3

By Roppie D. Tucker B.S.

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P. D. ROZ. SUB achtrans Pel 4: 7975e 20. Sa (Besch - Dec. Oag

709 W ROGENK Michand Texas 7970) Polige 683400

RESULT OF WATER ANALYSES

| | 7874 | APOPATORY NO | | | |
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| SARRY ALMOSTON CO. D. F. C. | Market Control States and Contro | the grant services from the service of the service | e entre financiale mais i l'agricultà l'arman nament, lanc agai ne de l'en re L'armanne de l'armanne | and the company of th | |
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EXHIBIT -E-

List of Offset Operators & Surface Owner

BTA Oil Producers Byers, 8605 JV-P Well No. 2 Lea Co., N.M.

Amoco Production Company Box 3092 Houston, TX 77253

Exxon Company U.S.A. Box 1600 Midland, TX 79702

A. G. Andrikopoulos P. O. Box 788 Cheyenne, Wyoming 82002

Surface Owner:
Leo V. Sims
Sims Brothers Ranch
119 North Dalmont
Hobbs, NM 88240

I hereby certify the above were mailed copies of our application on July 7, 1987.

OROTHY HOUGHTON

