SWU - 10-29-73

| CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS |
|---|
| Operator: <u>BARBARA FASKEN</u> Well: <u>WINGERD No. 13</u> Contact: <u>CARL BROWN</u> Title: <u>PET E</u> Phone: <u>915 687 1777</u> |
| Contact: CARL BROWN Title: PET E Phone: 915 687 1777 |
| DATE IN <u>12:09.93</u> RELEASE DATE <u>12:09.93</u> DATE OUT 24 |
| Proposed Injection Application is for: WATERFLOOD Expansion Initial |
| Original Order: R 🙍 Secondary Recovery Pressure Maintenance |
| SENSITIVE AREAS |
| WIPP Capitan Reef Commercial Operation |
| Data is complete for proposed well(s) HE Additional Data |
| AREA of REVIEW WELLS $ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array}\\ \end{array}\\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} $ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \begin{array}{c} \end{array} \\ |
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| Injection Formation(s) Devou AL Source of Water GCABIOZA DEVOUVAN Compatible 465 |
| PROOF OF NOTICE |
| <u>4</u> ECopy of Legal Notice <u>4</u> ESInformation Printed Correctly <u>4</u> ESCorrect Operators <u>4</u> ESCopies of Certified Muil Receipts |
| Objection ReceivedSet to HearingDate |
| NOTES: |
| APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL 445 |
| 3rd Contact:TelephonedLetter Date Neture of Discussion |

BARBARA FASKEN FASKEN OIL AND RANCH INTERESTS

303 WEST WALL AVENUE, SUITE 1900 MIDLAND, TEXAS 79701-5116 (915) 687-1777

December 6, 1993

Oil Conservation Division Mr. Ben Stone P.O. Box 2088 Santa Fe, New Mexico 87501

> Re: Application for Authorization to Inject Barbara Fasken-Operator Wingerd #13 Sec 24, T-12S, R-37E Gladiola Field Lea County, New Mexico

Dear Mr. Stone:

All supporting data for the above noted application are attached. The proposed injection interval is 11,862'-11,898'. The well will be equipped with 3-1/2" tubing in 5-1/2" casing. Fasken requests permission to set the injection packer at +/-11,000' for the following reasons:

- 1. To avoid setting in 6 degree deviation at +/-11,775'.
- 2. To allow more clearance between the 3-1/2" collars and the 5-1/2" casing. The 5-1/2" 17#/ft casing is set surface-11,100'; 20#/ft below 11,100'.
- 3. The squeezed Mississippian perfs 11,192-232' will be below the packer thereby ensuring a positive tubing/casing annulus integrity test.

The only well within the area of review with Mississippian perforations is the Fasken Wingerd #2. The Wingerd #2 was authorized for disposal into the Devonian and Mississippian zones by Administrative Order SWD-533 dated 9-20-93. During the well #2 workover the Devonian zone was found to be capable of flowing oil at commercial quantities. The well is currently flowing from the Devonian with Mississippian perfs open under the packer. A downhole commingling request has been made assigning 0% of the production to the Mississippian.

Sincerely,

Brown

Carl Brown Petroleum Engineer

CWB/cb cc: File

APPLICATION FOR AUTHORIZATION TO INJECT

| Ι. | Purpose: Applica | Secondary Recovery Pressure Maintenance X Disposal Storage tion qualifies for administrative approval? X yes no |
|------|---------------------------|---|
| 11. | Operator: | Barbara Fasken |
| | Address: | 303 W. Wall, Suite 1900, Midland, TX 79701 |
| | Contact pa: | rty: <u>Carl W. Brown</u> Phone: (915) 687-1777 |
| 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 If yes, giv | expansion of an existing project? yes no ve the Division order number authorizing the project |
| | ••• | |

- V. 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:
 - 1. Proposed average and maximum daily rate and volume of fluids to be injected;
 - 2. Whether the system is open or closed;
 - 3. Proposed average and maximum injection pressure;
 - 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 - 5. 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.).
- *VIII. 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.
- * X. 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 avai)able 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.
- XIII. 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:(| Carl W. | Brown | Title | Petroleum Engineer |
|------------|---------|-------|-------|--------------------|
| Signature: | Carl U. | Brown | Date | . 12-6-93 |

* 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 of the earlier submittal.

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office-

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 used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, 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 wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. 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 need 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 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS 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.

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- VI. Table of wells within area of review and schematics of P&A wells is attached.
- VII. 1. Average Daily Rate: 2500 BWPD Maximum Daily Rate: 5000 BWPD
 - 2. Closed System

Average Pressure: Vacuum initially 3. Maximum Pressure: 500 PSI

- 4. Water Sources: Gladiola-Devonian produced water.
- VIII. The proposed injection zone is the Devonian age dolomite at a depth of approximately 11,860' with a gross thickness of +/- 250'.

Fresh water aquifer at this site is the Ogalalla found from near surface to a depth of 300'.

- IX. Propose to stimulate the existing perforations 11862-11898 with 6,000 gallons 15% HCL acid.
- X. Logs have been filed with OCD.
- XI. Chemical analysis of fresh water wells is attached.
- XII. Applicant attests that a thorough examination has been made of all available geologic, engineering, and well data and that no hydorlogic connection exists between the proposed injection interval and the overlying fresh water aquifer.
- XIII. Proof of Notice in area newspaper will be forwarded under separate cover.

INJECTION WELL DATA SHEET

| | OPERATOR | ken L | EASE | | |
|---|---|--|--|--|--------------------|
| | 13 WELL NO. | 990' FSL, 660' FEL FOOTAGE LOCATION | 24 SECTION | T12S TOWNSHIP | R37E |
| | Schem | atic | Tubul | ar Data | |
| | | | Surface Casing | | |
| | | 11 | | Formented with 200 | |
| | | | Size <u>13-3/8</u> " | <u>-</u> - | |
| | | | TOC Surface feet | | ation |
| | | | Hole size $17\frac{1}{2}$ " | | |
| | | 13-3/8" @ 318' | Intermediate Casing | | |
| | | | Size <u>9-5/8</u> * | | |
| | | | TOC feet | determined by <u>Calc</u> | |
| | | | Hole size $12\frac{1}{2}$ " | · · · · · · · · · · · · · · · · · · · | |
| | | | <u>Long string</u> | | |
| | | | Size <u>5¹2"</u> | Cemented with100 | 5 |
| | | ► 9-5/8" @ 4600' | TOC <u>9300</u> feet | determined by <u>Temp</u> . | Survey |
| | | Z 2-7/8" tbg. @ 6046' Miss. perf 11192-232' sqzd | Hole size | | |
| | | Dev. perf 11862-898' PBTD 11912' | Injection interval | | |
| | | - CIBP @ 11990' w/2 sx cmt. Perf 12006-020' | <u>11,862</u> feet to | <u>11,898</u> feet | perfora |
| 12148' 00-218' | w/100 sx | Cmt. ret. 12240' w/100 sx | (perforated or open-hole | e, indicate writer) | |
| | | Perf 12318-332' | | | |
| | | Cmt. ret. 12410' w/150 sx Perf 12450-70' | | | |
| | | Cmt. ret. 12529 w/100 sx Ellen. perf 12721-736' | | | |
| | | 5½" 17# 0-11,100', 5½" 20# | 11,100'-TD | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Tub | ing size | 3 ¹ 2" lined wi | thplastic coati | .ng | set in a |
| Tub | | | (material | ng) | |
| | Watson Arrow (brand and | wset I packer d model) | (material | ng | set in a _ feet |
| | Watson Arrow (brand and | wset I packer | (material | ng | |
| (or <u>Oth</u> | Watson Arrow (brand and describe any o her Data | wset I packer d model) ther casing-tubing seal). | (material | ng | |
| (or <u>Oth</u> | Watson Arrow (brand and describe any o her Data | wset I packer d model) | (material | ng | |
| (or <u>Oth</u> | Watson Arrow (brand and describe any o ner Data Name of the in | wset I packer d model) ther casing-tubing seal). | (material at <u>±11,000</u> | ng | |
| (or <u>Oth</u> 1. 2. | Watson Arrow (brand and describe any of her Data Name of the in Name of Field of | wset I packer d model) ther casing-tubing seal). jection formation <u>Devonian</u> | (materia) at <u>±11,000</u> adiola | <u>ng</u> | |
| (or <u>Oth</u> 1. 2. | Watson Arrow (brand and describe any of <u>ner Data</u> Name of the in Name of Field of Is this a new of | wset I packer d model) ther casing-tubing seal). jection formation Devonian or Pool (if applicable) G1a | (material at <u>±11,000</u> adiola _Yes <u>X</u> No |) | _ feet |
| (or <u>Oth</u> 1. 2. | Watson Arrow (brand and describe any of <u>ner Data</u> Name of the in Name of Field of Is this a new of | wset I packer d model) ther casing-tubing seal). jection formation <u></u> Devonian or Pool (if applicable)Gla well drilled for injection? | (material at <u>±11,000</u> adiola _Yes <u>X</u> No |) | _ feet |
| (or <u>Oth</u> 1. 2. 3. | Watson Arrow (brand and describe any of ner Data Name of the in Name of Field of Is this a new If no, for what 10-24-56 Has the well ev | wset I packer d model) ther casing-tubing seal). jection formation Devonian or Pool (if applicable) Gla well drilled for injection? t purpose was the well originall ver been perforated in any other | (material at <u>±11,000</u> adiola _Yes <u>X</u> No y drilled? <u>Completed as</u> zone(s)? List all such p |) Devonian oil produce erforated intervals an | _ feet |
| (or <u>Oth</u> 1. 2. 3. | Watson Arrow (brand and describe any of <u>her Data</u> Name of the in Name of Field of Is this a new of If no, for what 10-24-56 Has the well em plugging detail | wset I packer d model) ther casing-tubing seal). jection formation <u>Devonian</u> or Pool (if applicable) <u>Gla</u> well drilled for injection? t purpose was the well originall ver been perforated in any other 1 (sacks of cement or bridge plu | (material at <u>+11,000</u> adiola _Yes <u>X</u> No y drilled? <u>Completed as</u> zone(s)? List all such pu g(s) used) <u>Miss. 11192'</u> |) Devonian oil produce erforated intervals an -11232' sqzd. w/165 | _ feet |
| (or <u>Oth</u> 1. 2. 3. | Watson Arrow (brand and describe any of ner Data Name of the in, Name of Field of Is this a new of If no, for wha 10-24-56 Has the well em plugging detai CIBP @ 11990 | wset I packer d model) ther casing-tubing seal). jection formation Devonian or Pool (if applicable) Gla well drilled for injection? t purpose was the well originall ver been perforated in any other 1 (sacks of cement or bridge plu D' w/2 sx PBTD 11912', Dev. pe | (material at <u>+11,000</u> adiola _Yes <u>X</u> No y drilled? <u>Completed as</u> zone(s)? List all such p g(s) used) <u>Miss. 11192'</u> erf 12006-20', cmt. ret. |) Devonian oil produce erforated intervals an -11232' sqzd. w/165 12148' w/100 sx, De | _ feet |
| (or <u>Oth</u> 1. 2. 3. 4. | Watson Arrow (brand and describe any of ner Data Name of the in Name of Field of Is this a new of If no, for what 10-24-56 Has the well en plugging detait <u>CIBP @ 11990</u> <u>1220-218, cm</u> 12450-470', | wset I packer d model) ther casing-tubing seal). jection formation <u>Devonian</u> or Pool (if applicable) <u>Gla</u> well drilled for injection? t purpose was the well originall ver been perforated in any other 1 (sacks of cement or bridge plu | (materia) at |) Devonian oil produce erforated intervals an -11232' sqzd. w/165 12148' w/100 sx, De et. 12410' w/150 sx, 6'. | _ feet |

Barbara Fasken Wingerd No. 13 Gladiola Field Lea County, New Mexico Application for Authorization to Inject

MAIL LIST

Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87501

Oil Conservation Division P.O. Box 1980 Hobbs, NM 88240

Surface Owner

Dean Kinsolving Cert. # P 322 142 948 P.D. Box 325

P.O. Box 325 Tatum, NM 88267

Leasehold Operators Within One-Half Mile

| <u>W/2</u> of <u>NE/4</u> <u>Sec. 24 T12S R37E</u> Wadi Petroleum, Inc. 1440 S. Walters Road, Suite 400 Houston, TX 77014 | Cert. | # | Ρ | 322 | 142 | 949 |
|--|---------------|------------|---|-----|-----|-----|
| <u>E/2</u> of <u>W/2 Sec. 24 T12S R37E</u> Amoco Production Co. 501 Westlake Park Blvd. Houston, TX 77079 | Cert. | # 1 | P | 322 | 142 | 937 |
| <u>NW/4 Sec. 19 T12S R38E</u> Brothers Production Co., Inc. P.O. Box 7515 Midland, TX 79708 | Cert. | # | Р | 322 | 142 | 938 |
| <u>NE/4</u> of <u>SW/4</u> <u>Sec. 18 T12S R38E</u> Yates Petroleum Corporation 105 S. Fourth St. Artesia, NM 88210 | Cert. | # | Р | 322 | 142 | 939 |
| <u>NW/4</u> of <u>SW/4</u> and <u>S/2</u> of <u>SW/4</u> Sec. 19 T12S Unleased | <u>R38E</u> | | | | | |
| NW/4 Sec. 30 T12S R38E and NE/4 Sec. 25 T Unleased | <u>125 R3</u> | 7 <u>E</u> | | | | |

Barbara Fasken Wingerd No. 13 Application for Authorization to Inject Gladiola Field Lea County, New Mexico

Wells Within Area of Review

McAlester Fuel Co. #1 Brownfield "B" 0i1 Unit G, 1650' FNL 1650' FEL S24 T12S R37E Compl. 5-23-52 TD 11985' Perf. 11815'-11845' Devonian OWWO: 9-21-69 CIBP 10330' Perf 10282-298' Penn. OWWO: 1-20-70 CIBP 10000' Perf 9310'-9584' TA'd w/18' cmt. on pkr. @ 9270' <u>Cmt.</u> Hole <u>Csa.</u> Depth 18-1/2" 13-3/8" 400 sx 365' 12-1/4" 9-5/8" 4473' 1968 sx 8-3/4" 5-1/2" 11980' 1235 sx P & A 7-26-71 Schematic Attached. McAlester Fuel Co. #2 Brownfield "B" D&A Unit G, 1750' FNL 1650' FEL S24 T12S R37E Compl. 7-31-52 TD 10345' Perf. 9572-93' Wolfcamp OWWO: 4-5-60 Sqz. perfs 9572-93' DO to 10323'. Perf. 10295'-10310' No Show. CIBP @ 9510', Perf. 9457-79' No show. Pkr. @ 9445' w/50 sx cmt. PBTD 8840' <u>Hole</u> Depth <u>Cmt.</u> <u>Csa.</u> 17-1/2" 13-3/8" 367' 400 sx 12-1/4" 9-5/8" 4474' 1657 sx 8-3/4" 5-1/2" 10345' 674 sx P & A 4-1-63 Schematic Attached. Pan American Petroleum Corp. #7 Wingerd 0i1 Unit H, 1980' FNL 990' FEL S24 T12S R37E Compl. 7-24-53 TD 9820' Perf. 9580-94' Wolfcamp 10-14-63 Spot 25 sx across perfs 9580-94'. Perf. 5220-30', 5538-78'. OWWO: CIBP @ 5250', sqz. 5220-30' w/100 sx. Cmt. ret. @ 5195'. Perf. 5104-12' cmtd. behind csg. w/72 sx. D0 and perf. 5170'-5204' San Andres. Csa. <u>Hole</u> <u>Cmt.</u> Depth 18" 13-3/8" 312' 360 sx 12-1/4" 9-5/8" 4479' 690 sx 7-7/8" 5-1/2" 98201 372 sx P & A 1-11-68 Schematic Attached.

Barbara Fasken #6 Wingerd <u>0il</u> Unit I, 660' FEL 1980' FSL S24 T12S R37E Compl. 7-13-53 TD 12035' Perf. 11900-940' Devonian OWWO: 12-2-58 Set cmt. ret. @ 11880' sgz. 11900-940'. Perf. 11835-860' Devonian 4-3-63 PB to 11850' sqz. 11835-60' w/100 sx. Perf. 11830-840' Devonian OWWO: Depth Cmt. Hole <u>Csa.</u> 13-3/8" 321' 17-1/2" 355 sx 540 sx 9-5/8" 12-1/4" 4500' DV @ 2280' w/150 sx 8-3/4" 7" 12034' 630 sx Pan American Petroleum Corp. #9 Wingerd 0i1 Unit I, 2210' FSL 890' FEL S24 T12S R37E Compl. 11-4-53 TD 9820' Perf. 9589'-9603' Wolfcamp OWWO: 8-16-55 Cmt. Ret. @ 9585'. Perf. 9386'-9568' Wolfcamp Hole Cmt. <u>Csa.</u> Depth 17-1/2" 13-3/8" 293' 325 sx 12-1/4" 9-5/8" 4488' 690 sx 8-3/4" 7" 9873¹ 300 sx P & A 12-29-67 Schematic Attached. Pan American Petroleum #11 Wingerd <u>011</u> Unit J, 2110' FSL 1650' FEL \$24 T12S R37E Compl. 5-23-54 TD 9823' Perf. 9575-97' Wolfcamp <u>Hole</u> Csa. Depth Cmt. 17-1/2" 13-3/8" 326' 325 sx 9-5/8" 12-1/4" 4515' 690 sx 7" 8-3/4" 98121 300 sx P & A 1-10-68 Schematic Attached. Barbara Fasken #10 Wingerd 0i1 Unit J. 2310' FSL 1650' FEL S24 T12S R37E Compl. 4-17-54 TD 12016' Perf. 11641'-11872' Devonian 2-3-58 add Perfs. 11904-53' OWWO: 6-24-60 Cmt. ret. @ 11890' Att. sqz. 11904-53' communicated w/hole OWWO: OWWO: 5-1-73 Cmt. ret. @ 11792' Sqz. below w/50 sx left 62' cmt. on ret. PBTD 11730' Depth Hole Csa. Cmt. 17-1/2" 13-3/8" 315' 325 sx 12-1/4" 9-5/8" 4493' 540 sx DV @ 2275' w/150 sx 5-1/2" 7-7/8" 12015' 640 sx

Fina Oil and Chemical Co. #12 Wingerd <u>0i1</u> Unit 0, 990' FSL 1650' FEL S24 T12S R37E Compl. 9-1-55 TD 11987' Perf. 11865'-11900' Devonian OWWO: 3-16-91 CIBP 10710'. Perf. 10662-702' Cisco swab wtr. Perf. 9517'-9820' Wolfcamp. Set cmt. ret. @ 10630', attempt sqz. w/100 sx, tbg. stuck, left fish in hole, TOF 10189'. TA'd well. Hole Csa. Depth Cmt. 17-1/2" 13-3/8" 300' 325 sx 8-5/8" 12-1/4" 4500' 690 sx DV @ 2312' w/100 sx 7-7/8" 5-1/2" 11986' 600 sx P & A 5-4-93 Schematic Attached. Barbara Fasken #13 Wingerd <u>011</u> Unit P. 990' FSL 660' FEL S24 T12S R37E Compl. 10-24-56 TD 12945' PBTD 11975' Attempt Ellenburger Compl. Perf. 12721-736', cmt. ret. 12529' w/100 sx, perf. 12450-70', cmt. ret. 12210' w/150 sx, perf. 12318-32', cmt. ret. 12240' w/100 sx, perf. 12200-18', cmt. ret. 12148' w/100 sx, perf. 12006-020', CIBP @ 11990' w/2 sx cmt. Perf. 11862-898' Devonian OWWO: 4-26-84 CIBP @ 11791'. Perf. Miss. 11192-232' tstd. wtr. 6-7-84 Sqz. 11192-232' w/250 sx (165 in fm.) D0 cmt. & CIBP @ 11791'. OWWO: Return well to Devonian production. <u>Hole</u> <u>Csa.</u> Depth Cmt. 17-1/2" 13-3/8" 318' 380 sx 12-1/4" 9-5/8" 4600' 1500 sx 8-3/4" 5-1/2" 12945' 1100 sx Amoco Production Corp. #8 Wingerd 0i1 & SWD Unit P. 660' FSL 660' FEL S24 T12S R37E Compl. 9-20-53 TD 9818' Perf. 9610-36' Wolfcamp OWWO: 10-61 Converted well to SWD thru perfs. 9610-36' by Commission order R-2019 7-13-61. Hole Csa. Depth <u>Cmt.</u> 17-1/2" 13-3/8" 323' 225 sx 12-1/4" 9-5/8" 44951 590 sx 7. 8-3/4" 98181 300 sx P & A 6-14-71 Schematic Attached. Sinclair Oil & Gas Company #1 H.R. Fields 0i1 Unit A, 330' FNL 330' FEL S25 T12S R37E Compl. 6-9-53 TD 9654' Perfs: Wolfcamp 9512'-9547' Hole <u>Csa.</u> Depth <u>Cmt.</u> 17-1/2" 13-3/8" 300' 375 sx 12" 10-3/4" 660' 550 sx 9-7/8" 1200 sx 7-7/8" 4507' 6-3/4" 5-1/2" 9654 300 sx P & A 2-24-67. Schematic Attached.

Jake L. Hamon #1 H.R. Fields <u>0i1</u> Unit A, 330' FNL 407' FEL S25 T12S R37E Compl. 6-22-57 TD 11953' Perfs: Devonian 11940'-11950' Depth Hole <u>Csa.</u> Cmt. 17-1/2" 13-3/8" 367' 400 sx 12-1/4" 9-5/8" 4516' 2170 sx 8-3/4" 5-1/2" 11953' 200 sx P & A 3-29-66 Schematic attached. Jake L. Hamon #1 Anita Field D & A Unit B, 330' FEL 1650' FEL S25 T12S R37E Compl. 9-7-57 TD 12018' Hole Csa. Depth <u>Cmt.</u> 17-1/2" 13-3/8" 415 sx י 401 12-1/4" 9-5/8" 4494 2100 sx P & A 6-1-60 Schematic attached. Brothers Production Co. #2 Lea "AV" State 011 Unit E, 330' FWL 1980' FNL S19 T12S R38E Compl. 5-2-53 TD 11955' Open hole 11885'-11955' Devonian OWWO: 10-22-62 CIBP @ 11800' w/2 sx cmt. Perf. 11758'-11770' (Miss.) No show oil or gas. CIBP @ 9645' w/2 sx cmt. PBTD 9635'. Perf 9400'-9588' Wolfcamp. Hole <u>Csa.</u> Depth <u>Cmt.</u> 13-3/8" 17-1/4" 376' 500 sx 9-5/8" 12-1/4" 4520' 2282 sx 8-3/4" 7" 11885' 610 sx Amoco Production Co. #1 State B-19 0i1 Unit K. 2310' FSL 1650' FWL S19 T12S R38E Compl. 5-27-57 TD 11982' Perf. 11958-968' Devonian Hole <u>Csa.</u> Depth Cmt. 17-1/4" 13-3/8" 342' 350 sx 11" 8-5/8" 4633' 650 sx 7-7/8" 5-1/2" 11982' 1200 sx P & A 9-13-71 Schematic Attached. Pan American Petroleum Corp. #2 Houston "A" <u>0i1</u> Unit L, 2110' FSL 330' FWL S19 T12S R38E Compl. 4-27-54 TD 9816' Perf. 9470'-9536' Wolfcamp <u>Hole</u> <u>Cmt.</u> <u>Csa</u>. Depth 13-3/8" 17-1/2" 3031 325 sx 9-5/8" 12-1/4" 4490' 590 sx 8-3/4" 5-1/2" 98061 370 sx P & A 12-1-67 Schematic Attached.

Petro Oil Company, L.P. #1 Houston "A" <u>0i1</u> Unit L, 2310' FSL 330' FWL S19 T12S R38E Compl. 11-17-53 TD 11960' Open hole 11921-960' Devonian 10-14-58 Perf. 11874-890' Devonian OWWO: 1-6-59 CIBP @ 11905' OWWO: OWWO: 7-27-59 Cmt. ret. 11850' sqz. 11874-890' w/200 sx. D0 to 11900'. Reperf. 11875-885' Devonian <u>Hole</u> <u>Csa.</u> Depth <u>Cmt.</u> 17-1/2" 13-3/8" 255 sx 324' 9-5/8" 12-3/4" 4514' 440 sx 8-3/4" 7" 11921' 1260 sx P & A 9-6-87 Schematic Attached. Pan American Petroleum Corp. #1 Houston "B" <u>0i1</u> Unit M, 990' FSL 330' FWL S19 T12S R38E Compl. 2-10-54 TD 9820' PBTD 9575' Perf. 9498'-9556' Wolfcamp OWDO: 1-29-57 Drilled to new TD 11971'. Set 5" liner 9140'-11971'. Perf 11908-953' Devonian OWWO: 8-1-69 CIBP @ 11700'. Perf. Penn 10004-176'. No shows. Hole <u>Csa.</u> Depth Cmt. 17-1/2" 13-3/8" 301' 325 sx 12-1/4" 9-5/8" 4461' 690 sx 7# 8-3/4" 98081 300 sx 5" liner NR 9140'-11971' 200 sx P & A 8-15-69 Schematic Attached. Amini Oil Corporation #1 State E-476 "A" 0i1 Unit D, 330' FNL 380' FWL S30 T12S R38E Compl. 9-13-53 TD 9660' Perf. Wolfcamp 9558-79', 9596'-9603' <u>Cmt.</u> <u>Hole</u> <u>Csg.</u> Depth 17-1/2" 13-3/8" 359' 400 sx 12-1/4" 9-5/8" 4506' 1600 sx 8-3/4" 5-1/2" 96581 1435 sx (DV @ 8798') P & A 12-5-69 Schematic Attached. Amini Oil Corporation #2 State E-476 "A" 0i1 Unit D. 330' FNL 486' FWL S30 T12S R38E Compl. 9-27-57 TD 11990' Open Hole Devonian 11969-990' Hole <u>Csa.</u> Depth <u>Cmt.</u> 17-1/2" 13-3/8" 364' 350 sx 12-1/4" 9-5/8" 4524' 1559 sx 8-3/4" 5-1/2" 11969' 680 sx (DV @ 9955') P & A 12-3-69 Schematic Attached.

| OPERATOR | | | DATE P&A | |
|---|--|-----------------|----------|----------|
| MCALESTER FUELS CO. | | | 7/26/71 | <u> </u> |
| LEASE | WELL NO | J | | |
| BROWNFIELD | 1 | UNIT G SEC 24 T | 12S R37E | |
| SP | OT 10 SX @ SURFAG | CE | | |
| SP | OT 25 SX @ 365' | | | |
| 133 | 3/8″CSG AT | 365 | WITH4 | 100_SX |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| SP | OT 35 SX @ 4473' | | | |
| <u> </u> | 8″CSG AT | 4473 | WITH | 68_SX · |
| | T 5 1/2" AND PULLED 51 DT 25 SX @ 5155' | 155' | | |
| PAC | CKER @ 9270' W/18' CM | | | |
| 1. S. | 9310-9584' | | | |
| | | | | |
| | P @ 10000' | | | |
| | 10282-10298' | | | |
| CIB | 3P @ 10330' | | | |
| PF | 11815-11845 | | | |
| | | | | |
| <u>5 1/</u> | /2″CSG AT | 11980 | WITH12 | 35_SX |
| | | | | · |
| то | T DEPTH 119 | 85 | | |

| OPERATOR | | | | | DATE P&A |
|---------------------------|---|------------|------------------|---------|-----------------|
| McALESTER FUELS CO. | | | | - | 4/1/63 |
| LEASE | | WELL NO. | LOCATION | | |
| BROWNFIELD | | 2 | UNIT G SEC 24 T1 | 2S R37E | |
| <u></u> | SPOT 10 SX @ |) SURFACE | | | |
| | SPOT 25 SX @ |) 370–338' | | | |
| The state and the | 13 3/8″ | CSG AT | <u> </u> | VITH - | \$X |
| in Standard Brand Prairie | CUT 9 5/8″ AND SPOT 25 SX @ 7 | | | | |
| | CUT 5 1/2″ AN SPOT 25 SX @ 9 5/8″ | | | VITH _ | <u> 1657</u> SX |
| | PF 9457–9479' CIBP @ 9510' | | ON TOP, PBTD 899 | 90 | |
| | PF 9572-9593, So PF 10295-10310' | DZD | | | |
| | 5 1/2″ | CSG AT | 10345 W | ИТН | 674 SX |
| | | | | - | |
| | TOT DEPTH | 10345 | - | | |

| | CORP. | WELL NO. 7 SURFACE | LOCATION UNIT H SEC | 24 T12S R37E | DATE P&A 1/11/68 | |
|--|---|--------------------------|------------------------|------------------|---------------------|--|
| WINGERD | SPOT 10 SX @ | 7 | | | | |
| <u>en an antipida por se pida por se pida</u> | SPOT 10 SX @ | | UNIT H SEC | 24 T12S R37E | | |
| | SPOT 10 SX @ | SURFACE | | | | |
| | | | | | | |
| Martin Carlo Martin | SPOT 25 SX IN 13 3/8″ | & OUT OF CSG AT | | <u>312_</u> WITH | <u>360_</u> SX | |
| and the second | CUT 9 5/8" AND F SPOT 25 SX IN & | | В | | | |
| | CUT 5 1/2″ ANI SPOT 25 SX IN 9 5/8″ | | STUB | 479_WITH | 690_SX | |
| | SPOT 20 SX 5175 PF 5104-12 BLOC PF 5170-5204' | | V/75 SX | | | |
| | PF 5220-5230', S(CIBP @ 5250' | QZD W/100 SX | ¢ | | | |
| <u>ם</u> | PF 5538-5578' | | | | | |
| | CIBP @ 9510' SPOT 25 SX CMT | ACROSS PEF | RFS 9580-94' | | | |
| | PF 9580-9594' | | | | | |
| | 5 1/2" | CSG AT | 98 | 320 WITH | <u> </u> | |

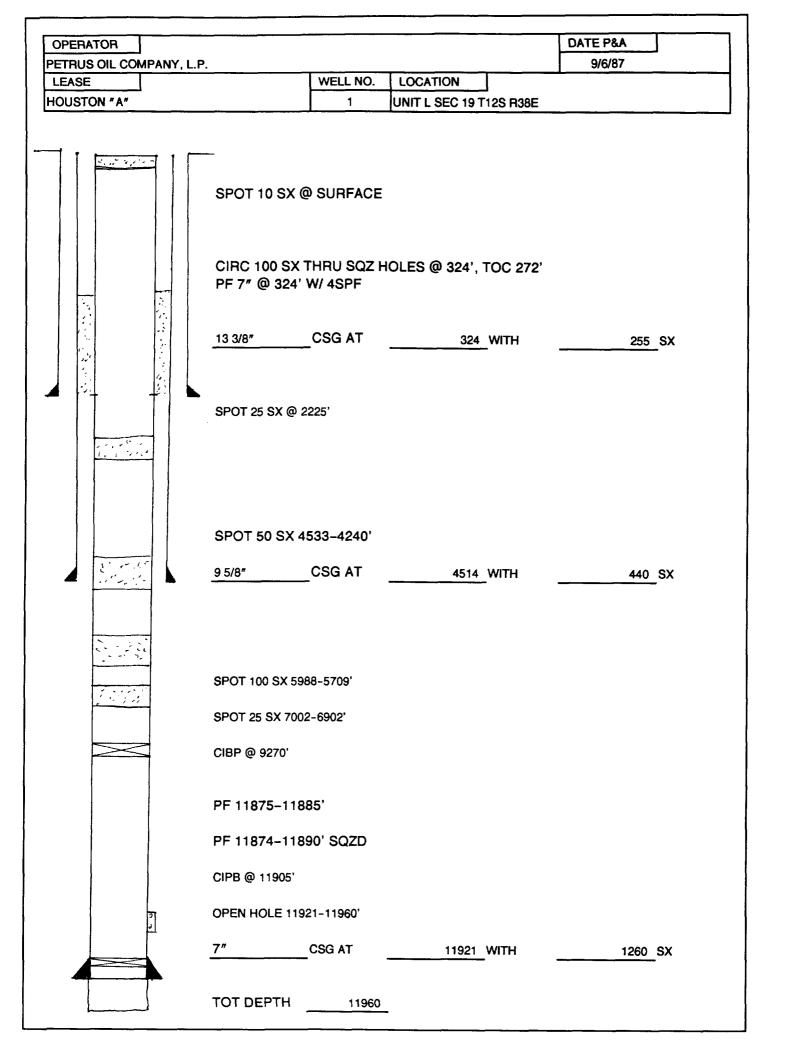
| | | | · | | |
|------------------------|-----------------------------------|-----------|-----------------|---------------|----------|
| | M CORP. | | | | DATE P&A |
| PAN AMERICAN PETROLEUI | | WELL NO. | LOCATION | | 12123/07 |
| WINGERD | | 9 | UNIT I SEC 24 T | 」 12S B37E | |
| | | <u> </u> | 101111 JEC 24 1 | 120 110/ E | |
| <u> </u> | SPOT 10 SX @ | SURFACE | | | |
| | SPOT 25 SX IN | N&OUTOF | 13 3/8″ @ 300' | | |
| | 13 3/8″ | CSG AT | 293 | WITH | 325_SX |
| | CUT 9 5/8" AND SPOT 25 SX IN & | | | | |
| | SPOT 25 SX IN | & OUT OF | 9 5/8″ @ 4499' | | |
| | 9 5/8″ | CSG AT | 4488 | _with | 690_SX |
| | CUT 7" AND PUL SPOT 25 SX IN & | | TUB | | |
| | SPOT 50 SX 9 | 585–9300' | | | |
| | PF 9386-9568 | , | | | |
| | CMT RET @ 9585 | | | | |
| | PF 9589-9603' | | | | |
| | 7″ | CSG AT | 9873 | _WITH | 300_SX |
| | TOT DEPTH | 9820 | _ | | |

| | | | | <u>_</u> | DATE DO | |
|---|--|-------------------|-----------------|----------|----------|----|
| | | | | | DATE P&A | J |
| PAN AMERICAN PETROLEUI | | WELL NO. | LOCATION | T | 1/10/68 | |
| WINGERD | | 11 | UNIT J SEC 24 T | 128 P275 | | |
| WINGERD | | | UNIT J SEC 24 1 | 120 10/2 | | |
| | SPOT 10 SX @ | SURFACE | | | | |
| | SPOT 25 SX IN | & OUT OF | 13 3/8″ | | | |
| | 13 3/8″ | CSG AT | 326 | _wітн | 325 | sx |
| So the second | CUT 9 5/8" AND SPOT 25 SX IN & | | " STUB | | | |
| | SPOT 20 SX IN | N&OUT OF | 9 5/8″ @ 4529' | | | |
| Sector Santa | 9 5/8″ | CSG AT | 4515 | _WITH | 690 | sx |
| | CUT 7" AND PUL SPOT 25 SX IN & | | ΓUΒ | | | |
| | SPOT 40 SX 9785 PF 9575-9692' 7″ | 5-9550' CSG AT | 9812 | _with | 300 | sx |
| | TOT DEPTH | 9823 | | | | |

| OPERATOR | | | | | DATE P&A |
|-------------------------|-------------------------------------|-------------|-----------------|--------------------|----------|
| FINA OIL & CHEMICAL CO. | | r | | | 5/4/93 |
| LEASE | | WELL NO. | | | |
| WINGERD | | 12 | UNIT O SEC 24 | 1125 H3/E | |
| | SPOT 10 SX @ |) SURFACE | | | |
| | 13 3/8″ SPOT 90 SX IN & | CSG AT | ***** | WITH ru csg cut | 325_SX |
| | | | | | |
| | 8 5/8" | CSG AT | 4500 | _WITH | 690_SX |
| | CUT 5 1/2" AND 1 SPOT 220 SX @ 4 | | 5 1/2" AND INTC | 8 5/8″ CSG | |
| | SPOT 25 SX @ 69 | 909, | | | |
| | CIBP @ 9440' W/ | 40' CMT | | | |
| <u>,</u> | PF 9517-9830' | | | | |
| | CMT RET @ 10 | 0630' W/441 | ' 2 7/8″ TBG C | MTD IN, TO | F 10189' |
| | PF 10662-1070 | 02' | | | |
| | CIBP @ 10710' | | | | |
| | PF 11865-11900' | | | | |
| | 5 1/2″ | CSG AT | 11986 | _WITH | SX |
| AB | TOT DEPTH | 11987 | - | | |

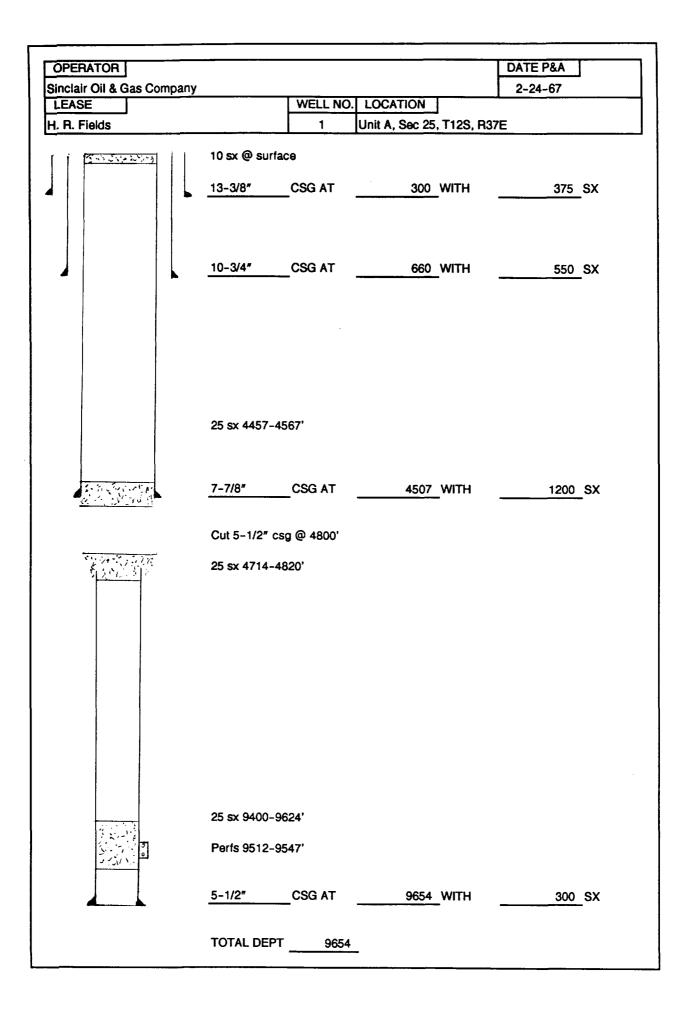
| | | | | DATE P&A |
|---|---|--|---|---|
| P. | | | | 6/14/71 |
| | WELL NO. | LOCATION | | |
| | 8 | UNIT P SEC 24 1 | 12S R37E | |
| SPOT 10 SX @ | SURFACE | | | |
| SPOT 50 SX IN | N & OUT OF | 13 3/8″ @ 323' | | |
| 13 3/8″ | CSG AT | 323 | _WITH | 225_SX |
| | | " STUB | | |
| SPOT 25 SX IN 9 5/8" | N & OUT OF CSG AT | - | | 590 SX |
| | | | _ | |
| SPOT 75 SX @ PF 9610-9636' PBTD 9770' | 9770–9400 | ' (CALC.) | | |
| | SPOT 10 SX (SPOT 50 SX II <u>13 3/8"</u> CUT 9 5/8" AND SPOT 25 SX IN 8 SPOT 25 SX IN 8 SPOT 25 SX IN 8 SPOT 25 SX IN 8 | WELL NO. 8 SPOT 10 SX @ SURFACE SPOT 50 SX IN & OUT OF 13 3/8" CSG AT CUT 9 5/8" AND PULLED 985' SPOT 25 SX IN & OUT OF 9 5/8 SPOT 25 SX IN & OUT OF 9 5/8 SPOT 25 SX IN & OUT OF 7" S CUT 7" AND PULLED 5008' SPOT 25 SX IN & OUT OF 7" S SPOT 25 SX IN & OUT OF 7" S SPOT 25 SX IN & OUT OF 7" S | WELL NO. LOCATION 8 UNIT P SEC 24 SPOT 10 SX @ SURFACE SPOT 50 SX IN & OUT OF 13 3/8" @ 323' 13 3/8" CSG AT 13 3/8" CSG AT 223 CUT 9 5/8" AND PULLED 985' SPOT 25 SX IN & OUT OF 9 5/8" STUB SPOT 25 SX IN & OUT OF 9 5/8" @ 4495' 9 5/8" CSG AT 4495 CUT 7" AND PULLED 5008' SPOT 25 SX IN & OUT OF 7" STUB SPOT 25 SX IN & OUT OF 7" STUB | WELL NO. LOCATION 8 UNIT P SEC 24 T12S R37E SPOT 10 SX @ SURFACE SPOT 50 SX IN & OUT OF 13 3/8" @ 323' 13 3/8" CSG AT 13 3/8" CSG AT 223_WITH CUT 9 5/8" AND PULLED 985' SPOT 25 SX IN & OUT OF 9 5/8" STUB SPOT 25 SX IN & OUT OF 9 5/8" @ 4495' 9 5/8" CSG AT 4495_WITH CUT 7" AND PULLED 5008' SPOT 25 SX IN & OUT OF 7" STUB SPOT 25 SX IN & OUT OF 7" STUB |

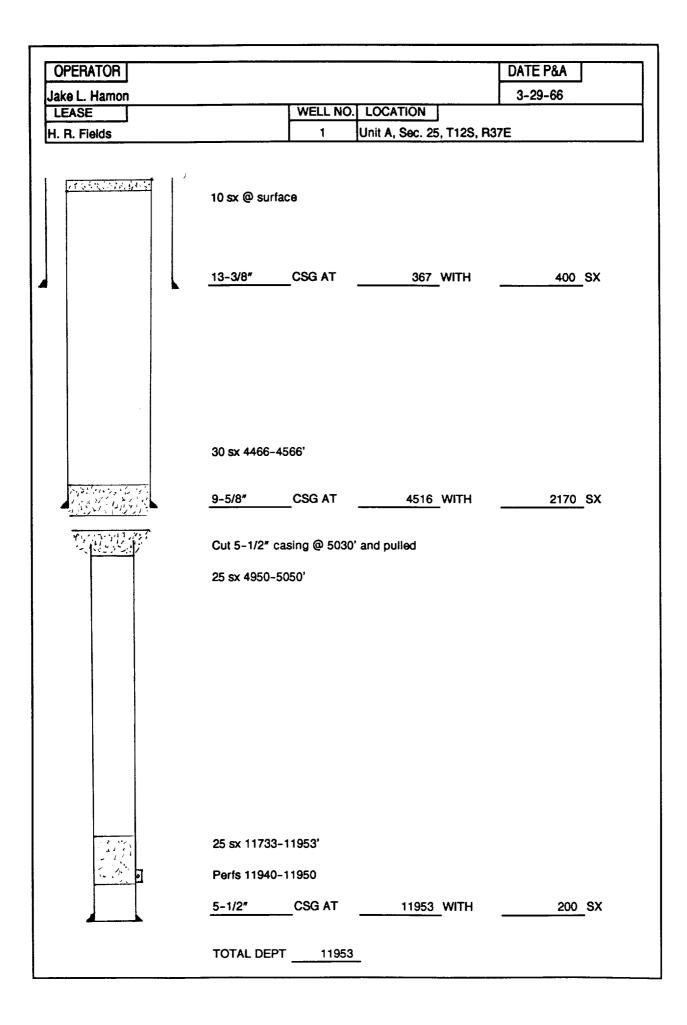
| OPERATOR | | | ····· | DATE P&A |
|--|---|-----------|-------------------------|------------------|
| AMOCO PRODUCTION CO. | | | | 9/13/71 |
| LEASE | | WELL NO. | LOCATION | |
| STATE "B-19" | | 1 | UNIT K SEC 19 T12S R38E | |
| | SPOT 10 SX @ | SURFACE | | |
| | SPOT 50 SX 34 | 44-295' | | |
| Station (Constant) | 13 3/8″ | CSG AT | 342_WITH | 350_SX |
| and the second | CUT 8 5/8" AND SPOT 50 SX 1010 | | | |
| Harris And Strands | 8 5/8" CUT 5 1/2" AND F SPOT 50 SX 4530 | | 4633_WITH | <u>∻ 650_</u> SX |
| WF attack in the | | | | |
| | SPOT 30 SX 80 | 950-8300' | | |
| | SPOT 50 SX 1159 | 8-11500' | | |
| | PF 11958-11968' | | | |
| Ð | 5 1/2" | CSG AT | 9597 WITH | SX |
| | TOT DEPTH | 11982 | | |

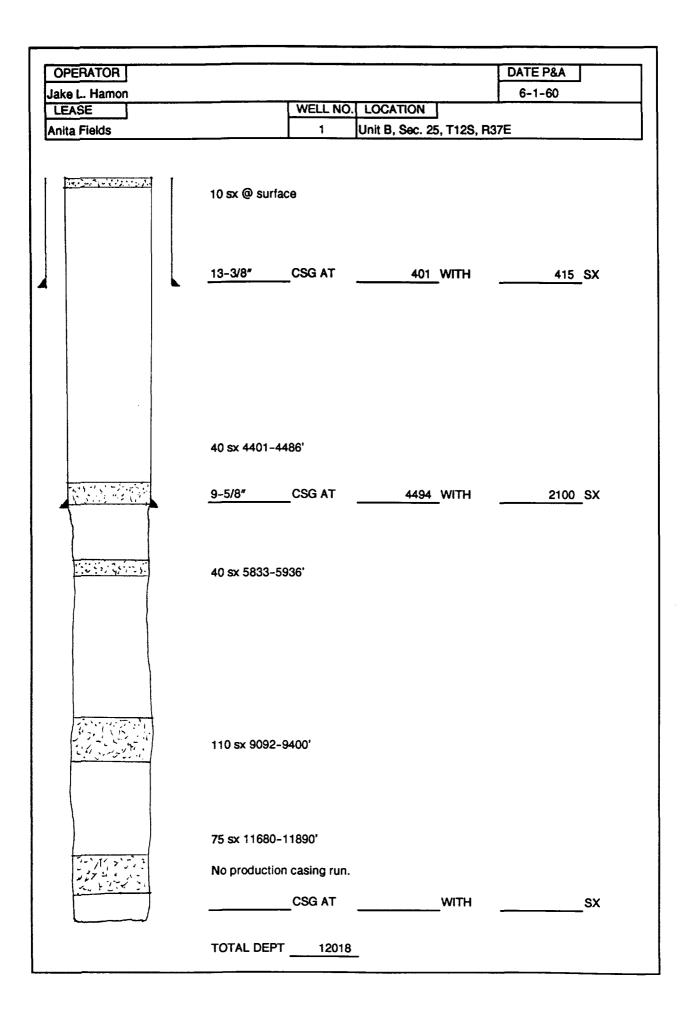


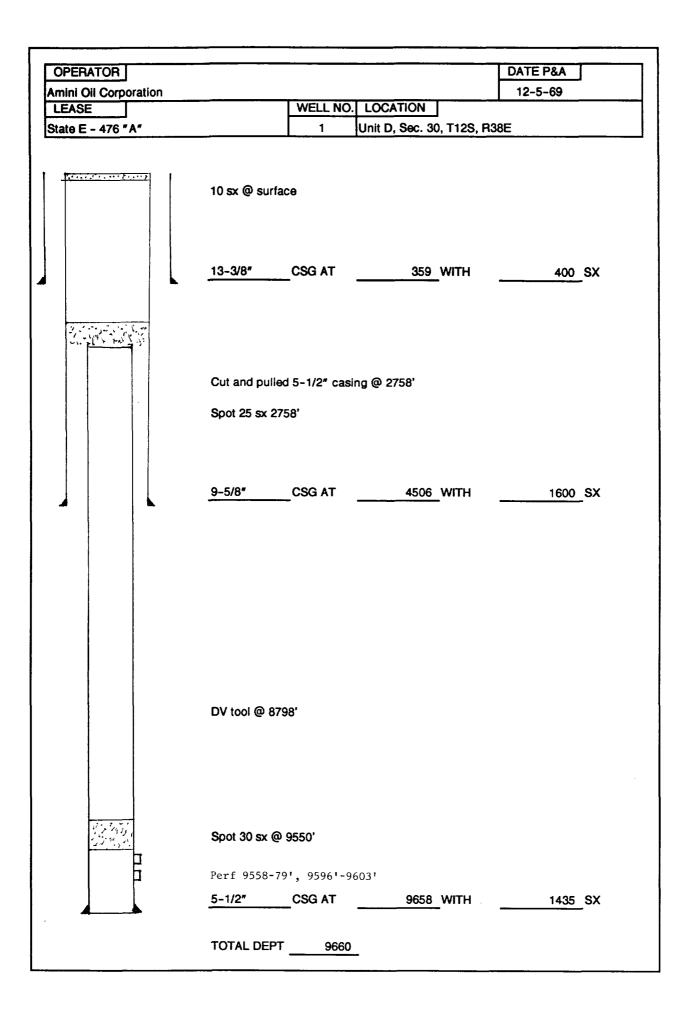
| OPERATOR | ····· | | | | DATE P&A |
|---|--|------------------|-----------------|----------|----------|
| PAN AMERICAN PETROLEUI | M CORP. | | | | 12/1/67 |
| LEASE | | WELL NO. | LOCATION | | |
| HOUSTON "A" | | 2 | UNIT L SEC 19 1 | 12S R38E | |
| terfa ter ve se en d'artas | SPOT 10 SX @ |) SURFACE | | | |
| | SPOT 25 SX IN | & OUT OF | 13 3/8″ CSG | | |
| | 13 3/8″ | CSG AT | 303 | _with | 325_SX |
| | CUT 9 5/8" AND I SPOT 25 SX IN & | | | | |
| | SPOT 20 SX IN | & OUT OF | 9 5/8″ @ 4500' | | |
| | 9 5/8″ | CSG AT | 4490 | _with | 590_SX |
| чула (<u>уларана)</u> Чула (<u>уларана)</u> Чула (<u>уларана)</u> (<u></u> | CUT 5 1/2" AND F SPOT 25 SX IN & | | | | |
| | SPOT 15 SX 9550 PF 9470-9536' 5 1/2″ | -9460' CSG AT | 9806 | _with | <u> </u> |

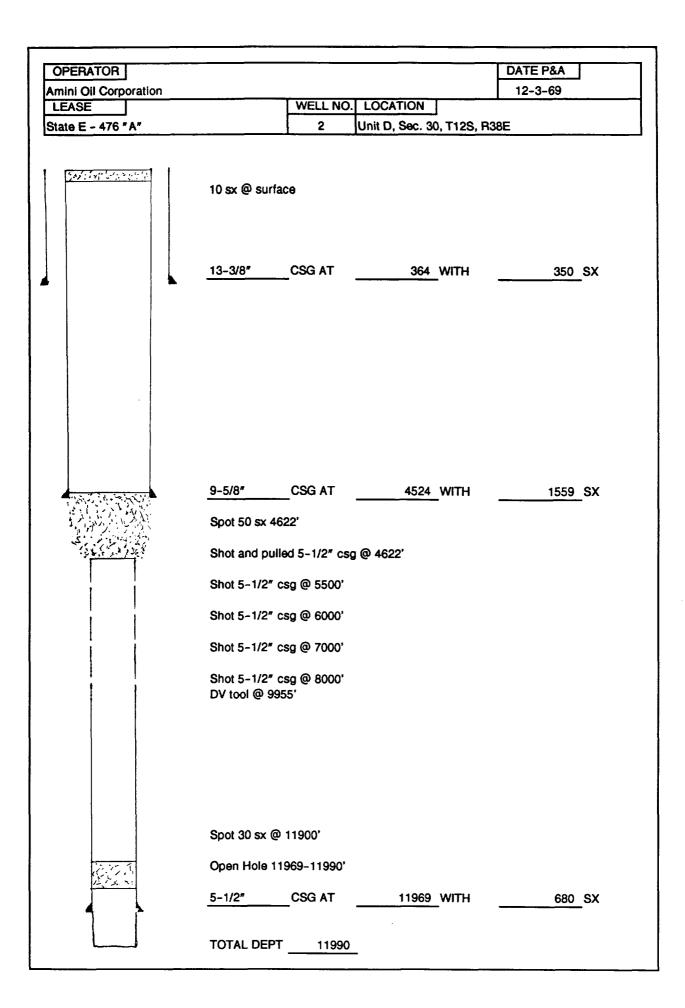
| OPERATOR | | | | | DATE P&A |
|-----------------------|--|--------------------------|--|-----------|----------|
| PAN AMERICAN PETROLEU | M CORP. | | | | 8/15/69 |
| LEASE | | WELL NO. | LOCATION | | |
| HOUSTON "B" | | 1 | UNIT M SEC 19 | T12S R38E | |
| <u></u> | SPOT 10 SX @ | SURFACE | | | |
| | SPOT 50 SX 29 | | | | |
| | 13 3/8″ | CSG AT | | WITH | 325_SX |
| | CUT 9 5/8" AND F SPOT 25 SX 710- | | | | |
| | 9 5/8″ CUT 7″ AND PUL SPOT 75 SX 4450 | | 4461 | with | 690_SX |
| | ORIGINAL COMPI TD 9820' PBTD 95 PF 9498-9556' | | | | |
| | SPOT 50 SX 1020 | 0-9990' | | | |
| | OLD WELL DRI DRILLED NEW SET 5" LINER 9 PF 10004-10176' | HOLE 9820 | -11971' | | |
| T | CIBP @ 11700' PF 11908-11953' | | | | |
| | | CSG AT | and the second sec | WITH | SX |
| | 5" I TOP LINER TOT DEPTH | LINER @ 9140 11971 | - | WITH | 200 SX |











| P. O. 80X 1468 Ionahans, Texas 79756 In. 943-3234 Of 653-1040 | martin water Lat | | | 709 W. INDIANA MIDLAND, TEXAS 79 PHONE 683-4621 |
|---|-----------------------|--|--|---|
| | RESULT OF WAT | | _ | |
| | | LABORATORY NO. | 89313 | 31 |
| Mr. Carl Brow | <u>n</u> | SAMPLE RECEIVED | 8-23- | -93 |
| 303 West Wall Street, S | uite 1901 | RESULTS REPORTED_ | 8-24- | -93 |
| Midland, TX 79701 | | | | |
| OMPANYBarbara | Fasken | LEASE | | |
| ELD OR POOL SURV | Gladic | <u>la</u> | | ··· |
| | | Lea STATE | NM | |
| OURCE OF SAMPLE AND DATE TA | | | | |
| NO.1 Raw water - taken | from Kinsoning fresh | <u>n water well (wind</u> | lmill). 8-21 | 1-93 |
| NO.2 | | | | |
| NO. 3 | | | | |
| NO.4 | | | | |
| | | | | |
| MARKS: | CHEMICAL AND PHYS | | | |
| | NO. 1 | NO. 2 | NO. 3 | NO. 4 |
| ipecific Gravity at 80 * F. | 1.0015 | | | |
| H When Sampled | | | | |
| H When Received | 7.32 | | | |
| licarbonate as HCO, | 307 | | | |
| Supersaturation as CaCOs | | | | ······································ |
| Undersaturation as CaCO, | | | | |
| otsi Hardness as CaCO, | 100 | | | |
| ialdium as Ca | 27 | | | |
| lagneelum as Mg | 8 | | | |
| odium and/or Potassium | 162 | | | |
| luilaie as 50. | 103 | | | |
| Chioride as Ci | 67 | | | |
| ron aa Fe | 0.54 | · | | |
| Barlum as Ba | | ····· | ····· | |
| furbidily, Electric | | | | · ····· |
| Color es Pt | 674 | | ······ | |
| Temperature "F. | 0/4 | | | |
| Carbon Dioxide, Calculated | | | | |
| Dissolved Oxygen. | | | | |
| tygrogen Suitide | 0.0 | | · | |
| Resistivily, ohme/m at 77* F | 12,42 | | | |
| Suspended Oil | | | | |
| illraole Solids as mg/l | | | | |
| Volume Fillered, mi | | | | |
| litrate, as N | 0.0 | | | |
| | | | | |
| | | | ا لر <u>ور در در</u> | |
| | Results Reported As N | | | |
| Additional Determinations And Remarks Th | e undersigned certif | ies the above to | be true and | correct to |
| the best of his knowled | ye and beller. | | | |
| | | | | |
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| | | ······································ | | |
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| m No. 3 | | GACH | | |

| Martin | Water | Laboratories, | Inc. |
|--------|-------|---------------|------|
|--------|-------|---------------|------|

| Mr. Carl Brown SAM 303 West Wall Street. Suite 1901 Res Midland, TX 79701 Res COMPANY | ALYSES BORATORY NO MPLE RECEIVED BULTS REPORTED | 0 00 | 709 W. INDIANA MIDLAND, TEXAS 78701 PMONE 683-4521 |
|---|--|--------------------|--|
| RESULT OF WATER AN LAE TO: Mr. Carl Brown SAM 303 West Wall Street, Suite 1901 RES Midland, TX 79701 COMPANY | BORATORY NO | 0.00 | |
| TO: Mr. Carl Brown SAM 303 West Wall Street, Suite 1901 Res Midland, TX 79701 COMPANY Barbars Fasken LEAS FIELD OR POOL Gladiola SECTION 13 BLOCK SURVEY T-12S&R-37E COUNTY I SOURCE OF SAMPLE AND DATE TAKEN: NO. 1 Raw water - taken from Skelton Ranch House NO. 2 NO. 3 NO. 4 REMARKS: CHEMICAL AND PHYSICAL NO. 1 Specific Gravity at 60° F. 1.0011 pH When Sampled J. 400 PH When Received Z.40 Bloarbonate as HCO, 244 Supersulvation as CaCO, 244 Guersaturation as CaCO, 244 Guersaturation as CaCO, 244 Guersaturation as CaCO, 244 Sodium and/or Potassium 64 Sufface as CO 104 Chioride as CO 54 | | 0.00 | 28 |
| TO: Mr. Carl Brown SAM 303 West Wall Street, Suite 1901 Res Midland, TX 79701 COMPANY Barbars Fasken LEAS FIELD OR POOL Gladiola SECTION 13 BLOCK SURVEY T-12S&R-37E COUNTY I SOURCE OF SAMPLE AND DATE TAKEN: NO. 1 Raw water - taken from Skelton Ranch House NO. 2 NO. 3 NO. 4 REMARKS: CHEMICAL AND PHYSICAL NO. 1 Specific Gravity at 60° F. 1.0011 pH When Sampled J. 400 PH When Received Z.40 Bloarbonate as HCO, 244 Supersulvation as CaCO, 244 Guersaturation as CaCO, 244 Guersaturation as CaCO, 244 Guersaturation as CaCO, 244 Sodium and/or Potassium 64 Sufface as CO 104 Chioride as CO 54 | | 0.00 | |
| 303 West Wall Street, Suite 1901 Res Midland, TX 79701 COMPANY | | | |
| Midland, TX 79701 COMPANY Barbars Fasken LEAS FIELD OR POOL Gladiola SECTION 13 BLOCK SURVEY T-12S&R-37E COUNTY I SOURCE OF SAMPLE AND DATE TAKEN: NO.1 Raw water - taken from Skelton Ranch House NO.2 NO.3 | | 0.0(| |
| COMPANY Barbara Fasken LEAS FIELD OR POOL Gladiola SECTION 13 BLOCK SURVEY T-12S&R-37E COUNTY I SOURCE OF SAMPLE AND DATE TAKEN: NO. 1 Raw water - taken from Skelton Ranch House NO. 1 Raw water - taken from Skelton Ranch House NO. 2 NO. 3 | | | |
| FIELD OR POOL Gladiola SECTION | SE | | |
| SOURCE OF SAMPLE AND DATE TAKEN: NO. 1 Raw water - taken from Skelton Ranch House NO. 2 | | | |
| SOURCE OF SAMPLE AND DATE TAKEN: NO. 1 Raw water - taken from Skelton Ranch House NO. 2 | .eaSTATE | NM | |
| NO. 2 | | | |
| NO. 3 | <u>garden hose</u> |). 8-21-93 | |
| NO. 4 | | | |
| NO. 4 | | | |
| CHEMICAL AND PHYSICAL NO. 1 Specific Gravity at 60° F. 1.0011 pH When Sampled 2.40 Bloarbonale as HCO, 2.44 Bupersaturation as CaCO, 2.44 Undersaturation as CaCO, 2.44 Specific Gravity at 60° F. 1.0011 pH When Sampled 7.40 Bloarbonale as HCO, 2.44 Bupersaturation as CaCO, 2.44 Games as CaCO, 2.44 Bupersaturation as CaCO, 2.44 Bupersaturation as CaCO, 2.44 Games as CaCO, 2.44 Carosum as Ga 85 Magnsatum as Mg 8 Sodium and/or Potassium 64 Suifate as SO, 10.4 Chioride as Cl 54 | | | |
| CHEMICAL AND PHYSICAL NO. 1 Specific Gravity at 80° F. 1.0011 pH When Samplad 7.40 Bloarbonale as HCO, 244 Bupersaturation as CaCO, 244 Undersaturation as CaCO, 244 Garoum as Ca 85 Magnasium as Mg 8 Sodium andror Potassium 64 Sulfate as SO, 104 Chioride as CI 54 | | | ······································ |
| NO. 1Specific Gravity at 60° F.1.0011pH When Samplad1.0011pH When Received7.40Bloarbonate as HCO,244Bupersaturation as CaCO,244Undersaturation as CaCO,244Catorium as Ca244Software as CaCO,244Supersaturation as CaCO,64Undersaturation as CaCO,64Software as CaCO,64Software as Co,104Chloride as Ci54 | | | |
| Specific Gravity at 60° F. 1.0011 pH When Samplad 7.40 pH When Received 7.40 Bloarbonate as HCO2 244 Bupersaturation as CaCO3 244 Undersaturation as CaCO3 244 Catorum as Ca 85 Magnaelum as Mg 8 Sodium and/or Potassium 64 Suttate as SO3 104 Chloride as C1 54 | NO. 2 | NO. 3 | NO. 4 |
| pH When Samplad 7,40 pH When Received 7,40 Bloarbonale as HCO, 244 Supersaturation as CaCO, 1 Undersaturation as CaCO, 244 Calcium as Ca 85 Magnasium as Mg 8 Sodium and/or Potassium 64 Suifate as SO, 104 Chloride as Ci 54 | | NO. 3 | NO. 4 |
| pH When Received 7,40 Bioarbonale as HCO, 244 Supersaturation as CaCO, 1 Undersaturation as CaCO, 244 Catoline as CaCO, 244 Catoline as Ca 85 Magnasium as Mg 8 Sodium and/or Potassium 64 Suifate as SO, 104 Chloride as Ci 54 | | | |
| Bioarbonate as HCO; 244 Supersaturation as CaCO; | | | |
| Bupersaturation as CaCO, Image: CaCO, Undersaturation as CaCO, 244. Total Hardness as CaCO, 244. Carolum as Ca 85. Magneelum as Mg 8 Sodium and/or Potassium 64. Sutifate as SO, 104. Chloride as Cl 54. | | | |
| Total Hardness as CaCO; 244 Calcium as Ca 85 Magnasium as Mg 8 Sodium and/or Potassium 64 Suifale as SO; 104 Chioride as Cl 54 | | | |
| Carolum as Ga 85 Magnasium as Mg 8 Sodium andror Potassium 64 Sulfate as SO, 104 Chioride as Ci 54 | | | |
| Magnasium as Mg 8 Sodium and/or Potassium 64 Sulfate as SO, 104 Chioride as CI 54 | | | |
| Sodium andror Potassium 64 Sulfate as SO, 104 Chioride as Cl 54 | | | |
| Suifale as SO, 104 Chioride as Cl 54 | | | |
| Chloride as Cl 54 | | | |
| | | | |
| | | | |
| | | | |
| Barium se Ba | | | |
| Turbidity. Electric | | | |
| Color as Pt Total Solids, Calculated 559 | | | |
| Temperature *F. | | | |
| Carbon Dioxide, Calculated | | | |
| Dissolved Oxygen. | | | |
| Hydrogen Sulfide 0.0 | | | |
| Resistivity, ohmaim al 77° F. 15, 22 | | | |
| Suspended Oli | | | |
| Filtrable Solide as mol | | | |
| Volume Filleted, mi | | | |
| Nitrate, as N 0.0 | | | |
| | | | |
| | - Par I liar | | ······ |
| Results Reported As Milligram | | h | |
| Additional Determinations and Remarks The undersigned certifies the best of his knowledge and belief. | Lne above to | <u>de true and</u> | COTTRCE TO |
| the same of und vulnatenke and netters | | | |
| | <u></u> | | |
| | | | |
| | | | |
| | | | |
| | ~~~ | | |
| | -Chining | | |
| form No. 3 | SAL A V | 1. 1 | 1 |

| Martin Water | Laboratories, | Inc. |
|--------------|---------------|------|
|--------------|---------------|------|

P. Q. BOX 1468 MONAHANS, TEXAS 79750 PH. 943-3234 OR 563-1040

RESULT OF WATER ANALYSES

709 W. INDIANA MIDLAND, TEXAS 79701 PHONE 883-4521

| TO: <u>Mr. Carl Brown</u> <u>303 West Wall Street, Suite 1901</u> Midland, TX 79701 | | 8-23-93 | |
|---|---------------------|---------|--|
| COMPANY Barbara Faaken | | | |
| FIELD OR POOL Gladio | 1 <u>a</u> | | |
| SECTION 19 BLOCK SURVEY T-125&R-38E COUNTY | Lea STATE | NM | |
| SOURCE OF SAMPLE AND DATE TAKEN: | | | |
| NO.1 Raw water - taken @ Houston Ranch House | e (kitchen faucet). | 8-21-93 | |
| NO. 2 | | | |
| NO. 3 | | | |

NO. 4 _____

| REMARKS: | | | | |
|---|-------------------------------|-----------------|--|------------|
| CH | IEMICAL AND PHYSICAL | PROPERTIES | مى بىلى ئىلىلى يۈرىيى بىرىي مىكى الىكى | |
| | NO, 1 | NO. 2 | NO. 3 | NO. 4 |
| Specific Gravity at 60° F. | 1.0020 | | | |
| pH When Sampled | | | | |
| pH When Received | 7.32 | | | |
| Bigarbonale se HCO, | 220 | | | |
| Superaturation as CaCO, | | | | |
| Undersaturation as CaCO, | | | | |
| Total Hardness as CaCO, | 512 | | | |
| Caldum as Ca | 170 | | | |
| Magnesium as Mg | 21 | | | |
| Sodium and/or Potessium | 91 | | | |
| Suitsie as 80, | 132 | | | |
| Chioride as Cl | 278 | | | |
| iron ss Fe | 0.05 | • | | |
| Barlum as Ba | | | | |
| Turbidity, Elecíric | | | | |
| Color as PI | | | | |
| Total Solida, Calculated | 912 | | | |
| Temperature 1F. | | | | |
| Carbon Dioxide. Calculated | | | | |
| Dissolved Oxygen. | | | | |
| Hydrogen Bullide | 0.0 | | | |
| Peelstivity, ohms/m at 77* F | 7,20 | | | |
| Suspended Oli | | | | |
| Filirable Bolids as mg/l | | | | |
| Volume Filtered, ml | | | | |
| Nitrate, as N | 1.0 | | | |
| | | | | |
| | | | | |
| | Results Reported As Milligram | | | |
| Additional Determinations And Remarks The under | signed certifies | the above to | be true and | correct to |
| the best of his knowledge and | belief. | | | |
| | | | | |
| | | | ······································ | |
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| | | | | f |
| | | - (- jage -)- | a per l | |
| 'erm No. 3 | _ | MI | an Jun | 2 |
| | Ву | Waylah C. | Martin, M.A. | |

-

Martin Water Laboratories, Inc.

| P. O, 80 | DX 1468 |
|---------------------------|-------------|
| MONAHANE, PH. 943-3234 | TEXA8 79766 |

709 W. INDIANA

| | | | 89312 | 9 | |
|--|--------------------------|---|--------------|---------------------------------------|--|
| Mr. Carl Brown | | | A | | |
| O: <u>Mr. Carl Brown</u> 303 West Wall Street, Suite 1901 | | | | 24-93 | |
| lidland, TX 79701 | | | | | |
| MPANY Barbara Fas | ken | LEASE | | | |
| | | | | · · · · · · · · · · · · · · · · · · · | |
| CTION BLOCK SURVEY _T | -12S&R-37ECOUNTY | Lea STATE | NM | | |
| URCE OF SAMPLE AND DATE TAKEN: | | Contraction of the second s | | | |
| NO.1 Raw water - taken from | Bill Green Fresh | n water well (gar | den hose). | 8-21-93 | |
| NO.2 | | | | | |
| | | | | | |
| NO.3 | | | | | |
| NO. 4 | | | | | |
| MARKS: | | | | | |
| | CHEMICAL AND PHYSI | CAL PROPERTIES | | | |
| | NO. 1 | NO. 2 | NO. 3 | NO. 4 | |
| pecific Gravity at 60 * F | 1.0024 | | | | |
| H When Sampled | | | | | |
| H When Received | 6.93 | | | ***************** | |
| icarbonale se HCO. | 273 | | | | |
| Bupersaturation as CaCO, | | | | | |
| Undersaturation as CaCO, | | | | | |
| otal Heronèse as CaCO ₁ | 720 | | | | |
| alojum as Ce | 220 | | | | |
| lagnesium as Mg | 41 | | | | |
| odlum and/or Potassium | 263 | | | | |
| ultare as \$0, | 169 | | | | |
| hloride as Ci | 632 | | | | |
| on as Fe | 0.90 | | | | |
| arium as Ba | | | | | |
| urbidity, Electric | | | | | |
| olor se Pt | | | | | |
| ola) Bolids, Calculated | 1,598 | | | | |
| arbon Diokide, Calquisted | | | | | |
| asolved Oxygen. | | | | | |
| ydrogen Sulfide | 0.0 | | | · | |
| Beislivity, onma/m at 77* F. | 3.89 | | | ····· | |
| uspended Oil | | | | | |
| lirable Solids as mg/l | | | | | |
| Volume Fillerad, mt | | | | | |
| itrate, as N | 0.0 | | | | |
| | | | | | |
| | | | | | |
| | Pesuits Reported As Mill | Igrams Per Liler | | | |
| dditional Determinations And Remarks The unc | lersigned certifi | es the shove to h | a true and a | ATTACT - | |
| he best of his knowledge ar | id belief. | | C CLUE MIU C | | |
| | | | | | |
| | | | | | |

~ Ũ Waylan C. Martin, M.A. 8y

Form No. 3

BARBARA FASKEN FASKEN OIL AND RANCH INTERESTS

303 WEST WALL AVENUE, SUITE 1900 MIDLAND, TEXAS 79701-5116 (915) 687-1777 93 DE 121 AM DIVISION

December 15, 1993

Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Ben Stone

Re: Application for Authorization to Inject Barbara Fasken-Operator Wingerd #13 Sec 24, T-12S, R-37E Gladiola Field Lea County, New Mexico

Dear Mr. Stone:

Attached please find copies of the affidavit of publication for the above mentioned application, and certified mail return receipts for the copies of the application provided to the offset operators and land owner. The latest notification date is December 10, 1993.

Thank you for your help in this matter.

Sincerely,

non

Carl Brown Petroleum Engineer

CWB/cb cc: File

| • • retri • • | ENDER: Complete items 1 and/or 2 for additional services. Complete items 3, and 4a & b. Print your name and address on the reverse of this form so the urn this card to you. Attach this form to the front of the mailpiece, or on the back is not permit. Write "Return Receipt Requested" on the mailpiece below the art The Return Receipt will show to whom the article was delivered a ivered. | if space icle number. | I also wish to receive the following services (for an extra fee): 1. |
|---------------------------------|--|--------------------------|---|
| 3 | Article Addressed to: | 4a. Arti | icle Number |
| | Wadi Petroleum, Inc. | P 32 | 2 142 949 |
| | 1440 S. Walters Rd., Suite 400 | 4b. Ser | vice Type |
| | Houston, TX 77014 | Regis | |
| | | Certi | |
| | < _ | <u> </u> | Merchandise |
| | V. a. alyton | 7. Date | of Delivery |
| 5. | Signature (Addressee) 💋 | 8. Addr and | ressee's Address (Only if requested fee is paid) |
| 6. | Signature (Agent) | | |

P 322 142 949



Receipt for Certified Mail No Insurance Coverage Provided Do not use for International Mail (See Reverse)

| | Wadi Petroleum, | Inc. | |
|--------------------------------|--|-----------------|-----|
| | 1440 S. Walters | Rd., Ste. | 400 |
| | P.O., State and ZIP Code Houston, TX 770 | 14 | |
| | Postage | \$ | |
| PS Form 3800, June 1991 | Certified Fee | | |
| | Special Delivery Fee | | |
| | Restricted Delivery Fee | | |
| | Return Receipt Showing to Whom & Date Delivered | | |
| | Return Receipt Showing to Whom, Date, and Addressee's Address | | 1 |
| | TOTAL Postage & Fees | \$ | |
| | Postmark or Date 12- Wingerd #13 - In | 6-93 jection | |

| Complete items 1 and/or 2 for additional services. Complete items 3, and 4a & b. Print your name and address on the reverse of this form so that we can return this card to you. Attach this form to the front of the mailpiece, or on the back if space does not permit. Write "Return Receipt Requested" on the mailpiece below the article number. Write "Return Receipt will show to whom the article was delivered and the date delivered. Amoco Production Co. 501 Westlake Park Blvd. Houston, TX 77079 Complete items 1 and/or 2 for additional services. I also wish to rece following services (for a fee): 1. Addressee's Addre | ddress very |
|--|----------------|
| return this card to you. Attach this form to the front of the mailpiece, or on the back if space does not permit. Write "Return Receipt Requested" on the mailpiece below the article number. The Return Receipt will show to whom the article was delivered and the date delivered. Article Addressed to: Amoco Production Co. Sol Westlake Park Blvd. Houston, TX 77079 | very |
| Attach this form to the front of the mailpiece, or on the back if space does not permit. Write "Return Receipt Requested" on the mailpiece below the article number. The Return Receipt will show to whom the article was delivered and the date delivered. Article Addressed to: Article Addressed to: Amoco Production Co. Soll Westlake Park Blvd. Houston, TX 77079 Attach this form to the front of the mailpiece below the article number. Consult postmaster for the date delivered. Consult postmaster for the date delivered. Bervice Type Insured | very |
| The Return Receipt will show to whom the article was delivered and the date Consult postmaster for delivered. Article Addressed to: Amoco Production Co. Sol Westlake Park Blvd. Houston, TX 77079 | • |
| The Return Receipt will show to whom the article was delivered and the date Consult postmaster for the delivered. 3. Article Addressed to: Amoco Production Co. 501 Westlake Park Blvd. Houston, TX 77079 | • |
| 3. Article Addressed to:4a. Article Number P 322 142 937Amoco Production Co.937501 Westlake Park Blvd.4b. Service Type C RegisteredHouston, TX 7707910 or 10 | |
| | |
| | |
| | |
| | |
| | |
| Express Mail Return Rec | |
| 7. BECot Delivery | <u>36</u> |
| 5. Signature (Addressee) 8. Untresteers 1007 ss (Only if r | reques |
| and fee is paid | · • • • |
| 6. Signature (Agent) | |

P 322 142 937

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| | (See Reverse) | |
|---------------------------------|--|---------|
| ſ | Amoco Production | Co. |
| | 501 Westlake Par | k Blvd. |
| Ī | Houston, TX 770 | 79 |
| | Postage | \$ |
| | Certified Fee | |
| | Special Delivery Fee | |
| | Restricted Delivery Fee | |
| 991 | Return Receipt Showing to Whom & Date Delivered | |
| ne 1 | Return Receipt Showing to Whom, Date, and Addressee's Address | |
| J, Ju | TOTAL Postage & Fees | \$ |
| PS Form 3800 , June 1991 | Postmark or Date 12-6-93 Wingerd #13 - Injection | |

| Put your address in the "RETURN TO" Space on the reverse s from being returned to you. <u>The return receipt fee will provide</u> the date of delivery. For additional fees the following services and check box(es) for additional service(s) requested. 1. Show to whom delivered, date, and addressee's add (<i>Extra charge</i>) | you the name of the person delivered to and are available. Consult postmaster for fees |
|---|---|
| 3. Article Addressed to: | 4. Article Number |
| Brothers Production Co., Inc. P.O. Box 7515 Midland, TX 79708 | P 322 142 938 Type of Service: □ Insured □ Registered □ Insured □ Certified □ COD □ Express Mail □ Return Receipt for Merchandise |
| | Always obtain signature of addressee or agent and DATE DELIVERED. |
| 5. Signature – Addressee X [*] | 8. Addressee's Address (ONLY if requested and fee paid) |
| 6. Signature – Agent X T-i Rubrum | |
| 7. Date of Delivery | |
| S Form 3811, Apr. 1989 +U.S.G.P.O. 1989-238-815 | DOMESTIC RETURN RECEI |

9-322 142 938

· · ·

| | Receipt for Certified M No Insurance Co Do not use for In (See Reverse) | verage Provided | 1 |
|-------------------------|---|-----------------|------|
| | Sent to Brothers Product | ion Co., | Inc. |
| | P.O. Box 7515 PO. State and ZIP Code Midland, TX 797 | 708 | |
| | Postage | \$ | |
| | Certified Fee | | |
| | Special Delivery Fee | | |
| | Restricted Delivery Fee | | |
| 991 | Return Receipt Showing to Whom & Date Delivered | | |
| 1 aur | Return Receipt Showing to Whom, Date, and Addressee's Address | | |
| ۲, J | TOTAL Postage & Fees | \$ | |
| PS Form 3800, June 1991 | Postmark or Date 12-6-9: Wingerd #13 - In, | | |

| SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, and 4a & b. Print your name and address on the reverse of the service of | f space 1. Addressee's A | an extra egi ddress of the state of the stat |
|---|--|---|
| 3. Article Addressed to: • | 4a. Article Number | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| Dean Kinsolving P.O. Box 325 Jatum, NM 88267 | P 322 142 948 4b. Service Type ☐ Registered ☐ Insured Ø Certified ☐ COD ☐ Express Mail ☐ Return Red Merchandi | |
| | 7. Date of Delivery | , no |
| 5. Signature (Addressee) 6. Signature (Agent) | 8. Addressee's Address (Only if and fee is paid) | requested y car |

P-322 142 948



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Receipt for Certified Mail No Insurance Coverage Provided Do not use for International Mail (See Reverse)

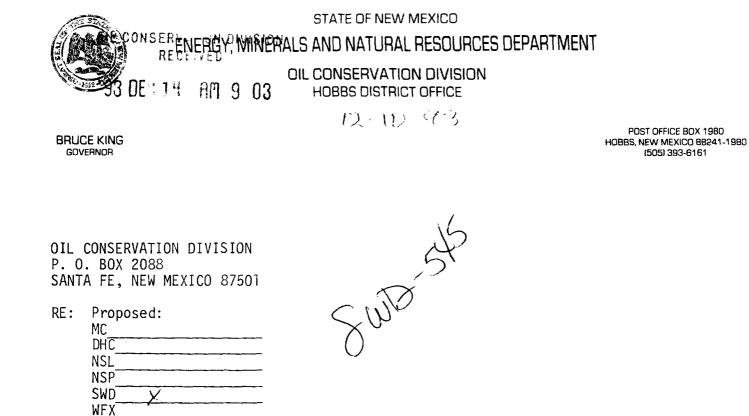
| Dean Kinsolving Street and No P.O. Box 325 P.O. State and ZIP Code | |
|---|---------------------------------------|
| Tatum, NM 88267 | · · · · · · · · · · · · · · · · · · · |
| Postage | \$ |
| Certified Fee | |
| Special Delivery Fee | |
| Restricted Delivery Fee | |
| Return Receipt Showing to Whom & Date Delivered | |
| Return Receipt Showing to Whom, Date, and Addressee's Address | |
| TOTAL Postage & Fees | \$ |
| Postmark or Date 1 | 2-6-93 |
| Wingerd #13 - In | jection |
| | |
| | |

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| 3. Article Addressed to: Yates Petroleum Corporation 105 S. Fourth St. Artesia, NM 88210 | 4. Article Number P 322 142 939 Type of Service: Registered I Insured Certified COD Express Mail Return Receipt |
|---|--|
| ~ | Always obtain signature of addressee or agent and <u>DATE DELIVERED</u> . |

P 322 142 939

| | Yates Petroleum | Corporation | |
|--------------------------------|---|-------------|--|
| | 105 S. Fourth St. | | |
| | P.O., State and ZIP Code Artesia, NM 882 | 210 | |
| 0, June 1991 | Postage | \$ | |
| | Certified Fee | | |
| | Special Delivery Fee | | |
| | Restricted Delivery Fee | | |
| | Return Receipt Showing to Whom & Date Delivered | | |
| | Return Receipt Showirig to Whom, Date, and Addressee's Address | | |
| | TOTAL Postage & Fees | \$ | |
| PS Form 3800, June 1991 | Postmark or Date 12-6 Wingerd #13 - Ir | | |
| _ | | | |



Gentlemen:

РМХ

I have examined the application for the:

H, 13 arbara waard 24-12 37 ne, Operator llnit ease

and my recommendations are as follows:

Yours very truly, Verry Sexton

Supervisor, District 1

/ed