

580 WestLake Park Blvd. Houston, TX 77079 PO Box 4294 Houston, TX 77210-4294 Phone: 281-552-1000

July 25, 2000

JUL 28

State of New Mexico Energy, Minerals & Natural Resources Department Oil Conservation Division 2040 South Pacheco Street Santa Fe, NM 87505

RE: Expansion of Pressure Maintenance Project North Hobbs (Grayburg/San Andres) Unit Hobbs; Grayburg – San Andres Pool Well No. 631 Letter B, Section 33, T-18-S, R-38-E Lea County, NM

### Gentlemen:

Occidental Permian Limited Partnership respectfully requests administrative approval for expansion of the subject pressure maintenance project by the drilling and completion of North Hobbs (G/SA) Unit Well No. 631 as a new water injection well. Administrative Order No. R-6199 granted November 30, 1979, authorized Shell Western E&P Inc. (Occidental Permian Limited Partnership's predecessor) to conduct the North Hobbs (G/SA) Unit pressure maintenance project within the Hobbs; Grayburg – San Andres Pool.

The following data is submitted in support of this request:

- Form C-108 with miscellaneous data attached
- Form C-102 (along with a copy of NMOCD-approved Form C-101)
- A map reflecting the location of the proposed injection well (No. 631). The map identifies all wells located within a two-mile radius of the proposed injector and has a one-half mile radius circle drawn around the proposed injection well which identifies the well's Area of Review.
- An injection well data sheet
- A tabulation of data on all wells of public record within the well's Area of Review



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- Schematics of plugged wells of public record within the well's Area of Review
- A list of Offset Operators and Surface Owners (these parties have been notified of this application by certified mail)
- An Affidavit of Publication and copy of the legal advertisement that was published in the county in which the well is located.

Your favorable consideration of our request will be appreciated. If you have any questions of a technical nature, please call David Nelson at (505) 397-8211. Otherwise, please call me at (281) 552-1158.

Very truly yours,

Mark Stephen

Mark Stephens Business Analyst (SG)

CC: Oil Conservation Division Hobbs District Office 1625 N. French Drive Hobbs, NM 88240

> State of New Mexico Commissioner of Public Lands P.O. Box 1148 Santa Fe, NM 87504-1148

Offset Operators (see attached list)

Surface Owners (see attached list)

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

### OIL CONSERVATION DIVISION 2040 SOUTH PACHECO SANTA FE, NEW MEXICO 87505

FORM C-108 Revised 4-1-98

### APPLICATION FOR AUTHORIZATION TO INJECT

|        |  | <del>"</del>   |  |   |   |                                       |                     |                         |                            |
|--------|--|--|--|---|---|---------------------------------------|---------------------|-------------------------|----------------------------|
| I.     | PURPOSE: Application qualifies for   | Secondary Recovery radministrative approval?   | X  | _Pressure M<br>Yes                            |   | Dis<br>No                             | posal               |                         | Storage                    |
| II.    | OPERATOR:  | Occidental Permia  | n Limit  | ed Partn                                      | ership  | · · · · · · · · · · · · · · · · · · · |                     |                         |                            |
|        | ADDRESS:   | P.O. Box 4294, Ho  | uston,   | TX 7721                                       | 0-4294  |                                       |                     |                         | <del></del>                |
|        | CONTACT PARTY:   | Mark Stephens, Rm  | . 338-E  | 3, WL2  |   | РН                                    | ONE:                | (281)                   | 552-1158                   |
| III.   |  | te the data required on the re<br>hal sheets may be attached if  |  |   | for each well                                       | proposed for in                       | njection            | 1.                      |                            |
| IV.    | Is this an expansion of a If yes, give the Division  | n existing project? X order number authorizing the   | Yes<br>e project:                              | R-6199  | No<br>(11/30/7                                      | 9)                                    |                     |                         |                            |
| V.     |  | fies all wells and leases with osed injection well. This cir   |  |   |   |                                       | one-hal             | lf mile rad             | dius circle                |
| VI.    | Such data shall include a  | ata on all wells of public reco<br>a description of each well's ty<br>and well illustrating all pluggin                          | ype, constr                                    |   |   |                                       |                     |                         |                            |
| VII.   | Attach data on the propo   | osed operation, including:   |  |   |   |                                       |                     |                         |                            |
|        | <ol> <li>Whether the system</li> <li>Proposed average and</li> <li>Sources and an approproduced water; and</li> <li>If injection is for dischemical analysis of wells, etc.).</li> </ol> | nd maximum injection pressure opriate analysis of injection all, iposal purposes into a zone not the disposal zone formation     | re;<br>fluid and co<br>ot product<br>water (ma | compatibility<br>ive of oil or<br>ay be measu | with the rece<br>gas at or with<br>red or inferred  | in one mile of t<br>I from existing   | he prop<br>literatu | posed we<br>ire, studie | II, attach a<br>es, nearby |
| *VIII. | depth. Give the geologi total dissolved solids co  | logic data on the injection zo<br>c name, and depth to bottom<br>encentrations of 10,000 mg/l<br>ely underlying the injection in | of all und or less) ov                         | erground so                                   | urces of drink                                      | ing water (aqui                       | fers co             | ntaining <sup>,</sup>   | waters with                |
| IX.    | Describe the proposed s  | timulation program, if any.  |  |   |   |                                       |                     |                         |                            |
| *X.    | Attach appropriate logg  | ing and test data on the well.   | (If well le                                    | ogs have bee                                  | n filed with th                                     | he Division, the                      | y need              | not be re               | esubmitted).               |
| *XI.   |  | sis of fresh water from two o<br>l showing location of wells a   |  |   |   | e and producing                       | 3) with             | in one mi               | le of any                  |
| XII.   | Applicants for disposal data and find no eviden sources of drinking was  | wells must make an affirmatice of open faults or any othe<br>ter.  | ive statem<br>r hydrolog                       | ent that they                                 | have examing the heat heat heat heat heat heat heat | ed available ge<br>e disposal zone    | ologic<br>and an    | and engii<br>y undergi  | neering<br>round           |
| XIII.  | Applicants must comple   | ete the "Proof of Notice" sect   | ion on the                                     | reverse side                                  | of this form.                                       |                                       |                     |                         |                            |
| XIV.   | and belief.  | ertify that the information su   |  |   |   |                                       |                     | -                       |                            |
|        | NAME:Man   | ck Stephens  |  |   | TITLE:  | Business                              | Ana                 | lyst (                  | SG)                        |
|        | SIGNATURE:   | rk Stephens  1 ank Stephens  |  |   |   | _DATE:                                | 7/                  | 25/00                   |                            |
| *      | If the information requir  | ed under Sections VI, VIII, 2<br>d circumstances of the earlier  | X. and XI                                      | above has be                                  | en previously                                       | submitted, it n                       | eed no              | t be resub              | omitted.                   |

### 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 the 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, 2040 South Pacheco, Santa Fe, New Mexico 87505, 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.

## Attachment To Form C-108 Miscellaneous Data

North Hobbs (Grayburg/San Andres) Unit Well No. 631 Letter B, Section 33, T-18-S, R-38-E Lea County, New Mexico

### III. Well Data

B.(5) Next higher oil zone -- Grayburg @ +/- 3700' Next lower oil zone -- Glorieta @ +/- 5300'

### VII. Proposed Operation

- 1. Average Injection Rate 1500 BWPD Maximum Injection Rate 4000 BWPD
- 2. Closed Injection System
- 3. Average Injection Pressure 500 PSIG

  Maximum Injection Pressure 805 PSIG (approx.)

  (will not exceed 0.2 psi/ft. to top perforation)
- 4. Source Water San Andres Produced Water (Mitchell Analytical Laboratory analysis attached)

### IX. Stimulation Program

Acid treatment of unitized perforations will be performed during conversion work

- XI. Fresh Water Sample Analysis (Laboratory Services, Inc. analysis attached 2 ea.)
- XII. Occidental Permian Limited Partnership affirms that available geologic and engineering data has been examined resulting in the finding of no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

### MITCHELL ANALYTICAL LABORATORY

### 2638 Faudree Odessa, Texas 79765-8538 561-5579

### Water Analysis

| GE PUMP                                       | emica   | ls   | Date Sampled Sampled by Employee #  | 11/05/1999<br>Mike Athey<br>27-008                                 |   |
|---|---|--|---|--|---|
| Di  | ssol  | ved Gasses   | 5   |  |   |
| (H2S)<br>(CO2)<br>(O2)                        |   |  | Mg/L<br>486.00  | Eq. Wt.<br>16.00   | MEq/L<br>30.38  |
|   | Ca  | tions  |   |  |   |
| (Ca++)<br>(Mg++)<br>(Na+)<br>(Ba++)<br>(Mn++) |   |  | 195.20  | 12.20  | 40.00<br>16.00<br>150.42  |
|   | A   | nions  |   |  |   |
| (OH-)<br>(CO3=)<br>(HCO3-)<br>(SO4=)<br>(C1-) | Not:  | Analyzed   | 1,869.66<br>1,700.00<br>5,005.50  | 61.10<br>48.80<br>35.50  | 0.00<br>30.60<br>34.84<br>141.00  |
| lids<br>CaCO3                                 |   |  |   |  | 0.02  |
| Sp  | ecif  | ic Gravity   | 7 60/60 F.  | 1.009  |   |
|   | 46.   | 63 MEq/L,  | CaSO4 scale   | is unlikely  | <b>?</b>  |
|   | Di  (H2S) (CO2) (Ca++) (Mg++) (Na+) (Ba++) (Mn++)  (OH-) (CO3=) (HCO3-) (SO4=) (C1-) (Fe) Olids CaCO3 OMHOS/CM Sp | Dissol  (H2S) (CO2) Not (Ca++) (Mg++) (Na+) (Ba++) Not (Mn++) Not (CO3=) (HCO3-) (SO4=) (C1-) (Fe) Plids CaCO3 PMHOS/CM Specif | Dissolved Gasses  (H2S) (CO2) Not Analyzed (O2) Not Analyzed  Cations  (Ca++) (Mg++) (Na+) (Na+) (Ba++) Not Analyzed  (Mn++) Not Analyzed  Anions  (OH-) Not Analyzed  (CO3=) (HCO3-) (SO4=) (C1-)  (Fe) Clids CaCO3 OMHOS/CM  Specific Gravity  O:80 F. 46.63 MEq/L, | Sample Temp   Date Sampled   Sampled by   Employee #   Analyzed by | Sample Temp   70.0     Date Sampled   11/05/1999     Sampled by   Mike Athey     Employee #   27-008     Analyzed by   DANIEL     Dissolved Gasses   Mg/L   Eq. Wt.     (H2S) |

## Nalco/Exxon Energy Chemicals

140.0

150.0

1.090

1.370

## L S

### Laboratory Services, Inc. 4016 Fiesta Drive

4016 Fiesta Drive Hobbs, New Mexico 88240 Telephone: (505) 397-3713

### Water Analysis

| COMPANY               | Altura Energy Ltd,              |                       |                         |
|-----------------------|---------------------------------|-----------------------|-------------------------|
| SAMPLE<br>SAMPLED BY  | Fresh Water Well Fo             | or Wells 33211,       | 33534 & 33631           |
| DATE TAKEN<br>REMARKS | 5/31/00<br>T18S-R38E-Sec 33, Q  | Otr Sec. 2,3,1        |                         |
| Barium as Ba          |                                 |                       |                         |
| Carbonate alkalir     | nity PPM                        | 0                     |                         |
| Bicarbonate alka      |                                 | <u>52</u><br>200      |                         |
| pH at Lab             |                                 | 7.54                  |                         |
| Specific Gravity      | @ 60°F                          |                       |                         |
| Magnesium as M        |                                 | 162                   |                         |
| Total Hardness a      |                                 | 280                   |                         |
| Chlorides as CI       |                                 | 106                   |                         |
| Sulfate as SO4        |                                 | 150                   |                         |
| Iron as Fe            |                                 | 0                     |                         |
| Potassium             |                                 | 0.1                   |                         |
| Hydrogen Sulfide      | 9                               | 0                     |                         |
| Rw                    |                                 | 9.6                   | @ 25° C                 |
| Total Dissolved S     | Solids                          | 820                   |                         |
| Calcium as Ca         |                                 | 118                   |                         |
| Nitrate               |                                 | 13.2                  |                         |
|                       |                                 |                       |                         |
| Results reported as F | Parts per Million unless stated |                       |                         |
| Langelier Satura      | tion Index                      | + 0.11                |                         |
|                       |                                 | Analysis by:<br>Date: | Vickie Walker<br>6/5/00 |

## L S

### Laboratory Services, Inc.

4016 Fiesta Drive Hobbs, New Mexico 88240 Telephone: (505) 397-3713

### Water Analysis

| COMPANY  | Altura Energy Ltd,                              |
|--|---|
| SAMPLE<br>SAMPLED BY   | Fresh Water Well For Wells 33211, 33534 & 33631 |
| DATE TAKEN<br>REMARKS  | 5/31/00<br>T18S-R38E-Sec 33, Qtr Sec. 2,3,1     |
| Barium as Ba Carbonate alkalir Bicarbonate alka pH at Lab Specific Gravity Magnesium as M Total Hardness a Chlorides as Cl Sulfate as SO4 Iron as Fe Potassium Hydrogen Sulfide Rw Total Dissolved S Calcium as Ca Nitrate | ## 155 ## 25° C ## 25° C                        |
| Results reported as I  | Parts per Million unless stated                 |

| Analysis by: | Vickie Walker |
|--------------|---------------|
| Date:        | 6/6/00        |

| FOR WELL 33631   |               |       |      |               |           |         |         |         |               |           |  |        |       |           |        |          |
|--|---------------|-------|------|---------------|-----------|---------|---------|---------|---------------|-----------|--|--------|-------|-----------|--------|----------|
| Well Name  | API No.       |       | Sec. | <br> -        | α         | 5       | Drill   | Well TD | TD or         | Top Bot.  | Sqz.   | Csg    | Hole  |           | No. of |          |
| Operator   |               |       |      |               | -         | Ltr     | Date Ty | Type PB | PBTD P        | Perf Perf | f Perfs  | Size   | Size  | Depth     | Sxs    | TOC      |
| 28142  | 30-025- 23246 | 23246 | 28 - | -188          | -38E      | M 10    | 10//69  | P 40    | 4030 38       | 3890 3968 | 3 NONE   | 13.375 | 17.5  | 372       | 350    | CIRC     |
| Altura   |               |       |      |               |           |         |         | PB      | PBTD          |           |  | 9.625  | 12.25 | 3787      | 1400   | CIRC**   |
|  |               |       |      |               |           | _       |         |         |               |           |  | 7      | 8.75  | 3589-7102 | 720    | CIRC     |
| 28241  | 30-025-       | 12498 | 28 - | -188          | -38E      | 6<br>Z  | 9//34   | P 42    | 4260 40       | 4061 4260 | 0 4004-4010  | 12.5   | 16    | 256       | 150    | CIRC     |
| Altura   |               |       |      |               |           |         |         |         |               |           | 4023-4026  | 9.625  | 12    | 2770      | 150    | 3094**   |
|  |               |       |      |               |           |         |         |         |               |           |  | 7      | 8.75  | 1800      | 250    | CIRC**   |
|  |               |       |      |               |           |         |         |         |               |           |  | 5.5    | 7.875 | 4229      | 100    | 3334     |
|  |               |       |      | -             |           |         |         |         | <del> </del>  |           |  |        | ļ     |           |        |          |
| 28242  | 30-025- 29276 | 29276 | 78   | -188          | -38€      | Z       | 7//85   | 44      |               | 4213 4347 | 7 NONE   | 13.375 | 17.5  | 40        | ¥.     | A        |
| Altura   |               |       |      |               |           |         |         | ВВ      | PBTD          |           |  | 9.625  | 12    | 1509      | 650    | CIRC     |
|  |               |       |      |               |           |         |         |         |               |           |  | 7      | 8.75  | 4470      | 1005   | CIRC     |
|  |               |       |      | $\overline{}$ |           |         |         |         | -+            |           |  |        |       |           |        |          |
| 28243  | 30-025-       | 23304 | 78   | -188          | -38E      | Z<br>C  | 10//69  | Р<br>63 |               | 5890 5967 |  | 13.375 | 17.5  | 348       | 250    | CIRC     |
| Altura   |               |       |      |               |           |         |         | ВВ      | PBTD          |           | 4904   | 9.625  | 12.25 | 3805      | 1400   | CIRC**   |
|  |               |       |      |               |           |         |         |         |               |           | 4910   | 7      | 8.75  | 3602-6350 | 200    | CIRC     |
| And the second s |               |       |      |               |           |         |         |         |               |           | 4918   |        |       |           |        |          |
|  |               |       |      |               |           | ,       |         |         |               |           | 4922   |        |       |           |        |          |
|  |               |       |      |               |           |         |         |         |               |           | -  |        |       |           |        |          |
| 28341  | 30-025-       | 12489 | 28   | -188          | -38E      | 0       | 7//34   | Р 42    |               | 4084 4258 |  |        | 17.5  | 222       | 180    | CIRC     |
| Altura   |               |       |      |               |           |         |         | PB      | PBTD          |           | 4268-4276  | 9.625  | 12.25 | 1637      | 300    | 992      |
|  |               |       |      |               |           |         |         | -       |               |           | 4128-4171  | 7      | 8.75  | 3975      | 400    | 2912-CBL |
|  |               |       |      |               |           |         |         |         |               |           | A CONTRACTOR OF THE CONTRACTOR | 2      | 6.25  | 3928-4276 | 100    | 4009-CBL |
|  |               |       |      |               |           |         |         |         | $\rightarrow$ |           |  |        |       |           |        |          |
| 28441  | 30-025- 07411 | 07411 | 28   | -185          | -38E      | 1/      | 1//35   | 1 42    |               | 4102 4257 | 7 NONE   | 10.75  | 13.5  | 243       | 150    | CIRC     |
| Altura   |               |       |      |               |           |         |         | BB      | PBTD          |           |  | 7.625  | 9.625 | 1634      | 300    | 185      |
|  |               |       |      |               |           |         |         |         |               |           |  | 5.5    | 6.25  | 4015      | 300    | CIRC     |
|  |               |       |      |               |           |         |         |         | -             |           |  |        |       |           |        |          |
| 33211  | 30-025-       | 07564 | 33   | -18S  -       | -38E      | C 6//34 |         | Р 42    |               | 4076 4222 | 2 3993-4008  | 12.5   | 16    | 296       | 150    | CIRC**   |
| Altura   |               |       |      |               |           |         |         | BB.     | PBTD          |           |  | 9.625  | 12.25 | 2760      | 150    | 3191**   |
|  |               |       |      |               | <br> <br> |         |         |         |               |           |  | 7      | 8.75  | 3930      | 250    | 2601**   |
|  |               |       |      |               |           |         |         |         |               |           |  | 5.5    | 7.875 | 3884      | 250    | 3800-CBL |
|  |               |       |      |               |           |         |         |         |               |           |  | 5.5    | 7.875 | 3887-4226 | 82     | 3887**   |
| 33010  | 30-025-       | 29026 | 33   | 28.7          | -38E      | 12,     | 12//84  | 1 43    | 4327 40       | 4029 4231 | NC N   | 13 375 | 17.5  | 40        | 40     | CIRC     |
| Altura   | 3             | 2     | 3    |               | 1         |         |         | BB      | <del></del>   | _1        | 1  | 8 625  | 12.25 | 1600      | 875    | CIRC     |
| ,  |               |       |      |               | 1         | -       | -       | -       | 3             |           |  | 1      |       |           |        |          |

| Well Name | API No  |        | Sec.       | ⊢         | 2           | ū<br>Un  | Drill Well | 12         | or Top        | p Bot.  | Sqz.      | Csg.   | Hole  |           | No. of     |          |
|-----------|---------|--------|------------|-----------|-------------|----------|------------|------------|---------------|---------|-----------|--------|-------|-----------|------------|----------|
| Operator  |         |        |            |           |             | Ltr      | Date Type  | pe PBTD    | rD Perf       | rf Perf | Perfs     | Size   | Size  | Depth     | Sxs.       | TOC      |
|           |         |        |            |           |             |          |            |            |               |         |           | 5.5    | 7.875 | 4370      | 006        | CIRC     |
|           | 0       |        |            |           | ı           |          |            | +          |               |         |           | 100    | 1     |           |            | V   4    |
| 33213     | 30-025- | 29062  | 55         | -188      | -38E        | C 2//85  | υ<br>Γ     | i          | 402/          | 7.755   | NONE      | 13.3/5 | 17.5  | 40        | Y          | ¥Z       |
| Altura    |         |        |            |           |             |          |            | PBTD       | ٥             |         |           | 8.625  | 12.25 | 1551      | 675        | CIRC     |
|           |         |        |            |           |             |          |            |            |               |         |           | 5.5    | 7.875 | 4370      | 775        | CIRC     |
| 33221     | 30-025- | 07560  | 33 -       | -18S      | -38E        | F 9//30  | 0          | 4185       | 35 4047       | 7 4230  | 909       | 12.5   | 16    | 237       | 125        | CIRC     |
| Altura    |         |        |            |           | -           | -        |            | CIBP       | +             | +       | 3145-3146 | 9.625  | 11.75 | 2770      | 400        | CIRC     |
|           |         |        |            |           |             |          |            |            |               | _       | 4043-4052 | 7      | 8.75  | 4012      | 275        | CIRC     |
|           |         |        |            |           |             |          |            |            |               |         |           | သ      | 6.25  | 4242      | 100        | 2850-CBL |
| 33000     | 30-025- | 26975  | 33         | -18S      | 386         | F 10//80 | 80         | 4322       | 72 4054       | 4 4276  | 4206-4210 | 16     | 20    | 40        | 40         | CIRC     |
| Altura    |         | -      | 3          | - i       | 1           | <b>†</b> |            | CIBP       | +-            | +-      | -         | 8.625  | 12.25 | 1600      | 800        | CIRC     |
|           |         |        |            |           |             |          |            |            |               |         |           | 5.5    | 7.875 | 4400      | 1100       | CIRC     |
|           |         |        |            |           |             | _        |            |            |               |         |           |        |       |           |            |          |
| 33233     | 30-025- | 28410  | 33 -       | -188 -:   | -38E        | K 12//83 | /83 P      |            | 30 4047       | 7 4246  | NONE      | 16     | 20    | 40        | AN         | ¥        |
| Altura    |         |        |            |           |             |          |            | PBTD       | 0             |         |           | 8.625  | 12.25 | 1582      | 750        | CIRC     |
|           |         |        |            |           |             |          | _          |            |               |         |           | 5.5    | 7.875 | 4350      | 875        | 65       |
|           |         |        |            |           |             |          |            |            |               |         |           |        |       |           |            |          |
| 33312     | 30-025- | 29199  | 33 -       | -18S -:   | -38E        | B 6//85  | 5<br>P     | 4362       | 32 3945       | 5 4270  | NONE      | 13.375 | 17.5  | 40        | NA         | CIRC     |
| Altura    |         |        |            |           |             |          | -          | PBTD       | <del></del> D |         |           | 9.625  | 12.25 | 1510      | 650        | CIRC     |
|           |         |        |            |           |             |          |            |            |               |         |           | 7      | 8.75  | 4421      | 975        | CIRC     |
|           | 000     |        | 0          | - 1       |             | $\neg$   |            | 100        | -             | -       |           | (      | Ċ     | 0,7       | 5          | 0        |
| 33322     | 30-022- | 691.77 | 22         | 2001-     | -385        | ا/ھ      |            | 4392       | 4008          | 4730    | NO NE     | ٥      | 07    | 40        | ÷ 5        | 7 1      |
| Altura    |         |        |            |           |             | -        |            | 7<br>U B U | ב             |         |           | 8.625  | 12.25 | 1600      | 820<br>820 | CIRC     |
|           |         |        |            |           |             |          |            |            |               |         |           | 5.5    | 7.875 | 4510      | 915        | CIRC     |
| 33323     | 30-025- | 28951  | 33         | -18S      | -38E (      | G 7//85  | ιδ<br>σ    | 4370       | 70 4003       | 13 4182 | NONE      | 13.375 | 17.5  | 40        | A<br>A     | NA       |
| Altura    |         |        |            |           |             |          |            | PBTD       | ٥             |         |           | 9.625  | 12.25 | 1157      | 650        | CIRC     |
|           |         |        |            |           | $  \cdot  $ |          |            |            |               |         |           | 7      | 8.75  | 4370      | 925        | CIRC     |
|           |         |        |            |           | -           |          |            |            | -             | +       | _         |        |       |           |            |          |
| 33411     | 30-025- | 07556  | 33 -       | -188      | -38E /      | A 11//34 | 34 P       | 4256       | 96 4095       | 15 4256 | 4020-4058 | 13.375 | 17    | 285       | 500        | CIRC     |
| Altura    |         |        |            |           |             |          |            |            |               |         |           | 9.625  | 12.25 | 2739      | SQZD       | CIRC     |
|           |         |        | <u>-</u> . |           |             |          |            | _          |               | -       |           | 7      | 8.75  | 3970      | 150        | CIRC     |
|           |         |        |            |           |             |          |            |            |               |         |           | 5.5    | 6.25  | 3919-4175 | 40         | 3919**   |
|           | 1       |        | 6          |           |             | - 1      | -          |            | 1             | ,       |           |        | 1     | 0,1,      | 010        |          |
| 33412     | 30-025- | 28832  | 33         | 33 -185 - | -38E        | /8/// H  | <u>ا</u>   | $\dashv$   | 4436 41/1     | 1 4341  | NONE      | 8.625  | 12.25 | 1542      | 029        | 2        |

| Well Name          | API No. | No.   | Sec. | -    | 2            | On O       | Drill | Well TD       | ŏ           | Top B       | Bot.   | Sqz.      | Csg.   | Hole  |           | No. of |          |
|--------------------|---------|-------|------|------|--------------|------------|-------|---------------|-------------|-------------|--------|-----------|--------|-------|-----------|--------|----------|
| Operator           |         |       |      |      | -            | Ltr Da     | t     | Type PE       | PBTD F      | $\vdash$    | Perf   | Perfs     | Size   | Size  | Depth     | Sxs.   | T0C      |
| Altura             |         |       |      |      |              |            | -     |               |             |             |        |           | 7      | 8.75  | 4436      | 1250   | CIRC     |
| 33422              | 30-025- | 28268 | 33   | -18S | -38E         | H 11//83   | 83    | 4             | 4476 4      | 4144 43     | 4313   | NONE      | 16     | 20    | 30        | 40     | CIRC     |
| Altura             |         | +     |      |      |              | +          |       | -             | +           | <del></del> | +      |           | 8.625  | 12.25 | 1664      | 650    | CIRC     |
|                    |         |       |      |      |              |            |       |               |             |             |        |           | 5.5    | 7.875 | 4476      | 750    | CIRC     |
| 33521              | 30-025- | 34643 | 33   | -18S | -38E         | C 9//88    | _     | <u>Ф</u>      | 4360 4      | 4104 42     | 4260   | NONE      | 14     | 18    | 40        | 50     | CIRC     |
| Altura             |         |       |      |      |              |            | -     | 置             | -           |             |        |           | 8.625  | 12.25 | 1565      | 795    | CIRC**   |
|                    |         |       |      |      |              |            |       |               |             |             |        |           | 5.5    | 7.875 | 4400      | 1655   | 4050-CBL |
| 00100              | 000     | _     | ç    |      | L            | _          |       | -   -         | 0707        |             | 4000   | 714014    | 7.7    | 07    | Q.        | C I    | **(0](   |
| 33523<br>Altura    | -070-00 | 343/2 | 3    | 20   | 100-<br>100- | 08///<br>L | -     | 1             | -+-         | 4080        | 000    |           | 8.625  | 12.25 | 1560      | 800    | CIRC#    |
|                    |         |       |      |      | -            |            |       |               |             |             |        |           | 5.5    | 7.875 | 4406      | 1000   | CIRC**   |
|                    |         |       |      |      |              |            |       |               |             |             |        |           |        |       |           |        |          |
| 33534              | 30-025- | 34373 | 33   | -188 | -38E         | J 7//98    |       | P 43          | 4370 4      | 4107 42     | 4244 4 | 4072-4106 | 14     | 18    | 40        | 20     | CIRC**   |
| Altura             |         |       |      |      |              |            |       | a.            | PBTD        |             |        |           | 8.625  | 12.25 | 1564      | 800    | CIRC**   |
|                    |         |       |      |      |              |            |       |               |             |             |        |           | 5.5    | 7.875 | 4402      | 740    | CIRC*    |
| 33545              | 30-025- | 34416 | 33   | -188 | -38E         | G 8//98    | _     | Д<br>4        | 4511 4      | 4275 4      | 4354   | NONE      | 14     | 18    | 40        | 50     | CIRC**   |
| Altura             | į       |       |      | 1    |              |            | -     | <u>a</u>      | PBTD        |             |        |           | 8.625  | 12.25 | 1550      | 800    | CIRC**   |
|                    |         |       |      |      |              |            |       |               |             |             |        |           | 5.5    | 7.875 | 4558      | 1000   | CIRC**   |
| STATE G #6         | 30-025- | 23334 | 33   | 188  | -38E         | F 11//69   |       | <u>ن</u><br>2 | 6441 6      | 6204 67     | 6148   | 450-452   | 11 75  | 17.5  | 420       | 540    | CIRC     |
| Altura             |         | _     |      |      |              | +          | -     | -             | +           | +           |        | 3410-3412 | 8.625  | 11    | 1831      | 370    | 1831-TS  |
|                    |         |       |      |      |              |            |       |               | :<br>:<br>: | :           | 5      | 5930-5962 | 5.5    | 7.875 | 6009      | 400    | 3500-TS  |
|                    |         |       |      |      |              |            |       |               |             |             |        |           | 4      | 4.75  | 5815-7041 | 92     | 5815**   |
| i c                | 700     | _     | ć    |      | L            |            |       | ì             | 04.0        |             |        | 000       | 40 075 | 17    | 000       | 750    | C        |
| Altira             | -620-05 | 6/807 | 3    | 007  | -20L         | 00//Z      |       |               | _           | COOO        | 7 0060 | 7007-0007 | 9.675  | 12.25 | 4401      | 1250   | CIRC     |
|                    |         |       |      |      |              | -          | -     |               |             |             |        |           | 7      | 8.75  | 7050      | 400    | 4045-TS  |
|                    |         |       |      |      |              |            |       |               |             |             |        |           |        |       |           |        |          |
| WD Grimes NCT-B #7 | 30-025- | 23438 | 33   | -18S | -38E         | B 3//      | 3//70 | P 7(          | 7059 5      | 5836 70     | 7008 5 | 5848-5988 | 13.375 | 17.5  | 368       | 400    | CIRC     |
| Texland            |         |       |      |      | -            |            |       | <u>a</u>      | PBTD        |             |        |           | 9.625  | 12.25 | 3859      | 2000   | CIRC     |
|                    |         |       |      |      |              |            |       |               |             |             |        |           | 7      | 8.75  | 7099      | 485    | 3635     |
|                    |         |       |      |      |              | -          |       |               | 1           | _           | _      |           |        |       |           |        |          |

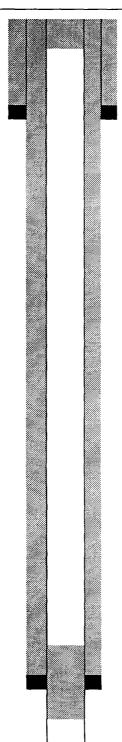
| ## SNOTIE ## 30-025- 2428  | Well Name          | API No.         | S       | Sec. | T       | œ    | -<br>-<br>- | Drill | Well | TD or         | Top  | Bot. | Sqz.      | Csg.   | Hole   |  | No. of |        |
|--|--------------------|-----------------|---------|------|---------|------|-------------|-------|------|---------------|------|------|-----------|--------|--------|--|--------|--------|
| No. 12   | Operator           |                 |         |      |         |      | <u> </u>    | 1     | 1    | PBTD          | Perf | Perf | Perfs     | Size   | Size   | Depth  | Sxs.   | TOC    |
| Part Delta   Par   | WD Grimes NCT-B #8 | 30-025-         | . 24928 | 33   | -18S    | -38E | <u> </u>    | 9///2 |      | 6935          |      | 6850 | 5728-5993 | 13.375 | 17.5   | 398  | 450    | CIRC   |
| Note   10   10   10   10   10   10   10   1  | Texland            |                 |         |      |         |      |             |       | _    | PBTD          |      |      |           | 9.625  | 12.25  | 3960   | 1750   | CIRC   |
| State #1 30-025- 28299 33 -188 -38E  |                    |                 |         |      |         |      |             |       |      |               |      |      |           | 7      | 8.75   | 7100   | 470    | 2510   |
| NONE HG 30-025- 28299 33-18S -38E A 9/83 P 7110 6638 6992 NONE 13.75 17.5 415  State #1 30-025- 23759 33-18S -38E G 6/77 P 7075 5871 6975 NONE 13.375 17.85 7199  State #1 30-025- 23759 33-18S -38E G 6/77 P 7075 5871 6975 NONE 13.375 17.85 7199  State #1 30-025- 07414 28-18S -38E F 11/48 PA 3208 3175 3178 NONE 9625 12.25 3799  #5 30-025- 07414 28-18S -38E G 12/47 PA 3218 3199 3209 3199-3209 10.75 13.75 3100  #6 30-025- 07415 28-18S -38E G 5/49 PA 3194 3009 3161 NONE 10.75 13.75 3190  #6 30-025- 07557 33-18S -38E G 5/49 PA 3194 3009 3161 NONE 10.75 13.75 3190  #6 30-025- 07557 33-18S -38E G 5/49 PA 3194 3009 3161 NONE 8625 17.25 3190  #6 30-025- 07557 33-18S -38E G 5/49 PA 3194 3009 3161 NONE 8625 17.5 7875 3190  #6 30-025- 07557 33-18S -38E G 5/49 PA 3194 3009 3161 NONE 8625 17.5 7875 3190  #6 30-025- 07557 33-18S -38E G 5/49 PA 3194 3009 3161 NONE 8625 17.5 7875 3190  #6 30-025- 07557 33-18S -38E G 5/49 PA 3194 3009 3161 NONE 8625 17.5 7875 3190  #6 30-025- 07557 33-18S -38E G 5/49 PA 3194 3009 3161 NONE 8625 17.5 7875 3190  #6 30-025- 07557 33-18S -38E G 5/49 PA 3194 3009 3161 NONE 8625 17.5 7875 3190  #6 30-025- 07557 33-18S -38E G 5/49 PA 3194 3009 3161 NONE 8625 17.5 7875 3190  #6 30-025- 07557 33-18S -38E G 5/49 PA 3194 3009 3161 NONE 8625 17.5 7875 3190  |                    |                 |         |      |         |      |             |       |      |               |      |      |           |        |        |  |        |        |
| 345 30-025- 23759 33-185 -38E G 8/171 P 7075 5871 6975 NONE 13.375 7109  Petroleum 30-025- 23759 33-185 -38E G 8/171 P 7075 5871 6975 NONE 13.375 7109  345 30-025- 07562 33-185 -38E P 11/148 PA 3208 3175 3178 NONE 9625 12.25 462  346 30-025- 07562 33-185 -38E O 12/147 PA 3218 3199 3209 3161 NONE 10.75 13.75 3100  346 30-025- 07552 33-185 -38E G 5/149 PA 3109 3161 NONE 10.75 13.75 3100  347 30-025- 07557 33-185 -38E G 5/149 PA 3109 3161 NONE 10.75 13.75 3100  348 30-025- 07557 33-185 -38E G 5/149 PA 3109 3161 NONE 10.75 13.75 3100  348 30-025- 07557 33-185 -38E G 5/149 PA 3109 3161 NONE 10.75 13.75 3100  348 30-025- 07557 33-185 -38E G 5/149 PA 3109 3161 NONE 10.75 13.75 3100  348 30-025- 07557 33-185 -38E G 5/149 PA 3109 3161 NONE 10.75 13.75 3100  349 30-025- 07557 33-185 -38E M 7/147 PA 3090 3161 NONE 8625 11.3 375 3100  340 30-025- 12500 28-185 -38E M 7/147 PA 3090 3151 NONE 8625 11.1 411  30-025- 07557 33-185 -38E M 7/147 PA 3090 3151 NONE 8625 11.1 411  30-025- 07557 33-185 -38E M 7/147 PA 3090 3151 NONE 8625 11.1 411  30-025- 07557 33-185 -38E M 7/147 PA 3090 3151 NONE 8625 11.1 411  30-025- 07557 33-185 -38E M 7/147 PA 3090 3151 NONE 8625 11.1 411  30-025- 07557 33-185 -38E M 7/147 PA 3090 3155 3151 NONE 8625 11.1 411  30-025- 07557 33-185 -38E M 7/147 PA 3090 3155 3151 NONE 8625 11.1 411  30-025- 07557 33-185 -38E M 7/147 PA 3090 3155 3151 NONE 8625 11.1 411  30-025- 07557 33-185 -38E M 7/147 PA 3090 3155 3151 NONE 8625 11.1 411  30-025- 07557 33-185 -38E M 7/147 PA 3090 3155 3151 NONE 8625 11.1 411  30-025- 07557 33-185 -38E M 7/147 PA 3090 3155 3151 NONE 8625 11.1 411  30-025- 07557 33-185 -38E M 7/147 PA 3090 3155 3151 NONE 8625 11.1 411  30-025- 07557 33-185 -38E M 7/147 PA 3090 3155 3151 NONE 8625 11.1 411  30-025- 07557 33-185 -38E M 7/147 PA 3090 3155 3151 NONE 8625 11.1 411  30-025- 07557 33-185 -38E M 7/147 PA 3090 3155 3151 NONE 8625 11.1 411  30-025- 07557 33-185 -38E M 7/147 PA 3050 3151 NONE 8625 11.1 411  30-025- 07557 33-185 -38E M 7/147 PA 3050 3151 NONE 8625 11.1 411  30-025- 07557 33-0 | WD Grimes NCT-B #9 | 30-025-         | - 28299 | 33   | -18S    | 38E  |             | 1//83 |      | $\rightarrow$ |      | 6952 | NONE      | 13.75  | 17.5   | 415  | 200    | CIRC   |
| State #11 30-025- 23759 33 -185 -38E G 81/71 P 7075 6871 6875 NONE 13.375 17.5 7109  Petroleum Setatoleum 9-025- 23759 31-185 -38E G 81/71 P 7075 6871 6875 NONE 13.375 17.5 7075  #43 30-025- 07562 33 -185 -38E F 111/48 PA 3208 3175 3178 NONE 9-025 12.25 3799  #45 30-025- 07414 28 -185 -38E O 121/47 PA 3218 3199 3209 3199-3209 10.75 13.75 3109  #46 30-025- 07415 28 -185 -38E G 51/47 PA 3255 3238 3249 NONE 10.75 12.25 462  #47 30-025- 07552 33 -185 -38E G 51/49 PA 3059 3161 NONE 10.75 13.75 3190  #48 30-025- 07552 33 -185 -38E B 51/48 PA 3059 3161 NONE 8-025 13.375 3190  #48 30-025- 07552 33 -185 -38E B 51/48 PA 3059 3161 NONE 8-025 13.375 3100  #48 30-025- 07552 33 -185 -38E M 71/47 PA 3089 3161 NONE 8-025 13.375 3100  #49 30-025- 07552 33 -185 -38E M 71/47 PA 3089 3161 NONE 8-025 13.375 3100  #49 30-025- 07552 33 -185 -38E M 71/47 PA 3089 3161 NONE 8-025 13.375 3100   | Texland            |                 |         |      |         |      |             |       |      |               |      |      |           | 8.625  | 12.25  | 4289   | 1740   | CIRC   |
| State #1 30-025- 23759 33 -188 -38E G 8//71 P 7075 5871 6975 NONE 13.375 17.5 418  Petroleum  Settoleum  Setto |                    |                 |         |      |         | -    |             |       |      |               |      |      |           | 5.5    | 7.875  | 7109   | 1220   | CIRC   |
| Petroleum         9625         12.26         3799           3 House         1 House <td>Conoco-State #1</td> <td>30-025-</td> <td>. 23759</td> <td>33</td> <td>-18S</td> <td>-38E</td> <td>-</td> <td>1///</td> <td></td> <td>7075</td> <td>5871</td> <td>6975</td> <td>NONE</td> <td>13.375</td> <td>17.5</td> <td>418</td> <td>410</td> <td>CIRC</td>  | Conoco-State #1    | 30-025-         | . 23759 | 33   | -18S    | -38E | -           | 1///  |      | 7075          | 5871 | 6975 | NONE      | 13.375 | 17.5   | 418  | 410    | CIRC   |
| 3#3 30-025- 07562 33 -185 -38E F 11/48 PA 3208 3175 3178 NONE 9-625 12.25 462 30-025- 07414 28 -185 -38E O 12/47 PA 3218 3199 3209 3199-3209 10.75 13.75 3100 8#5 30-025- 07415 28 -185 -38E O 12/47 PA 3255 3236 3249 NONE 10.75 12.25 424 8#6 30-025- 07552 33 -185 -38E O 5/49 PA 3194 3090 3161 NONE 9-625 13.375 3190 8#5 30-025- 07557 33 -185 -38E B 5/48 PA 3059 3151 NONE 9-625 13.375 3100 8#6 30-025- 07557 33 -185 -38E B 5/48 PA 3059 3151 NONE 9-625 13.375 3100 8#6 30-025- 07557 33 -185 -38E B 5/48 PA 3059 3151 NONE 9-625 13.375 3100 8#6 30-025- 07557 33 -185 -38E B 5/48 PA 3059 3155 3161 NONE 9-625 13.375 3100 8#7 30-025- 07557 33 -185 -38E N 7/47 PA 3090 3155 3161 NONE 9-625 7.875 3120  | Saga Petroleum     |                 |         |      |         |      |             |       |      |               |      |      |           | 9.625  | 12.25  | 3799   | 350    | 1089   |
| 3#3 30-025- 07562 33-188 -38E F 11/48 PA 3208 3175 3178 NONE 9.625 12.25 462 30-025- 07414 28-188 -38E O 12/47 PA 3218 3199 3209 3199-3209 10.75 13.75 3100 456 30-025- 07415 28-188 -38E J 12/47 PA 3256 3236 3249 NONE 10.75 12.25 424 467 30-025- 07552 33-188 -38E G 5/49 PA 3194 3090 3161 NONE 10.75 15 3190 3#5 30-025- 07557 33-188 -38E B 5/48 PA 3056 3130 3226 NONE 9.625 13.375 3100 3#6 30-025- 12500 28-188 -38E M 7/47 PA 3090 3151 NONE 8.625 13.375 3100 47 30-025- 12500 28-188 -38E M 7/47 PA 3090 3155 3161 NONE 8.625 13.375 3100 47 30-025- 12500 28-188 -38E M 7/47 PA 3090 3155 3161 NONE 8.625 13.375 3120  |                    |                 |         |      |         |      |             |       |      |               |      |      |           | 7      | 8.75   | 7075   | 006    | 3658   |
| 3#3 30-025- 07562 33-18S -38E F 11//48 PA 3208 3175 3178 NONE 9625 12.25 462  462 30-025- 07414 28-18S -38E O 12//47 PA 3218 3199 3209 3199-3209 10.75 13.75 3100  463 30-025- 07415 28-18S -38E O 12//47 PA 3255 3236 3249 NONE 10.75 12.25 424  474 475 475 475 475 477 477 477 477 4  |                    |                 |         |      |         |      |             |       |      |               |      |      |           |        |        |  |        |        |
| #\$ 30-025- 07562 33-18S -38E F 11/148 PA 3208 3175 3178 NONE 9625 12.25 462  #\$ 30-025- 07414 28-18S -38E O 12/147 PA 3218 3199 3209 3199-3209 10.75 13.75 3100  #\$ 30-025- 07415 28-18S -38E O 12/147 PA 3255 3236 3249 NONE 10.75 12.25 424  #\$ 30-025- 07557 33-18S -38E G 5/149 PA 3059 3151 NONE 9625 13.375 300  ##\$ 30-025- 12500 28-18S -38E B 5/148 PA 3059 3151 NONE 8625 13.375 300  ##\$ 30-025- 12500 28-18S -38E M 7/147 PA 3059 3151 NONE 8625 11 411  ##\$ 30-025- 12500 28-18S -38E M 7/147 PA 3059 3151 NONE 8625 13.375 300  ##\$ 30-025- 12500 28-18S -38E M 7/147 PA 3090 3155 3161 NONE 8625 13.375 300  ##\$ 30-025- 12500 28-18S -38E M 7/147 PA 3090 3155 3161 NONE 8625 13.375 300  ##\$ 30-025- 12500 28-18S -38E M 7/147 PA 3090 3155 3161 NONE 8625 13.375 300  ##\$ 30-025- 12500 28-18S -38E M 7/147 PA 3090 3155 3161 NONE 8625 13.375 300  ##\$ 30-025- 12500 28-18S -38E M 7/147 PA 3090 3155 3161 NONE 8625 13.375 300  ##\$ 30-025- 12500 28-18S -38E M 7/147 PA 3090 3155 3161 NONE 8625 13.375 300  ##\$ 30-025- 12500 28-18S -38E M 7/147 PA 3090 3155 3161 NONE 8625 13.375 300  ##\$ 30-025- 12500 28-18S -38E M 7/147 PA 3090 3155 3161 NONE 8625 13.375 300  ##\$ 30-025- 12500 28-18S -38E M 7/147 PA 3090 3155 3161 NONE 8625 13.375 300  ##\$ 30-025- 12500 28-18S -38E M 7/147 PA 3000 3155 3161 NONE 8625 13.375 300  ##\$ 30-025- 12500 28-18S -38E M 7/147 PA 3000 3155 3161 NONE 8625 13.375 300  ##\$ 30-025- 12500 28-18S -38E M 7/147 PA 3000 3155 3161 NONE 8625 13.375 300  ##\$ 30-025- 12500 28-18S -38E M 7/147 PA 3000 3155 3161 NONE 8625 13.375 300  ##\$ 30-025- 12500 28-18S -38E M 7/147 PA 3000 3155 3161 NONE 8625 13.375 3120  ##\$ 30-025- 12500 28-18S -38E M 7/147 PA 3000 3155 3161 NONE 8625 13.375 3120  ##\$ 30-025- 12500 28-18S -38E M 7/147 PA 3000 3155 3151 NONE 8625 13.375 3120  ##\$ 30-025- 12500 28-18S -38E M 7/147 PA 3000 3155 3151 NONE 8625 13.375 3120   |                    |                 |         |      |         |      |             |       |      |               |      |      |           |        |        |  |        |        |
| #\$ 30-025- 07414  |                    |                 |         |      |         |      |             |       |      |               |      |      |           |        |        |  |        |        |
| 36-025- 07414 28 -188 -38E F 11/148 PA 3208 3175 3178 NONE 9625 12.25 462  462 30-025- 07414 28 -188 -38E O 12/147 PA 3218 3199 3209 3199-3209 10.75 13.75 3204  463 30-025- 07415 28 -188 -38E J 12/147 PA 3255 3236 3249 NONE 10.75 12.25 424  464 30-025- 07552 33 -188 -38E J 12/147 PA 3090 3161 NONE 10.75 12.25 424  475 30-025- 07557 33 -188 -38E J 12/147 PA 3055 3130 3226 NONE 9625 13.375 3100  477 30-025- 12500 28 -188 -38E M 7/147 PA 3090 3155 3161 NONE 8.625 13.375 3120  478 30-025- 12500 28 -188 -38E M 7/147 PA 3090 3155 3161 NONE 8.625 13.375 3120  479 30-025- 12500 28 -188 -38E M 7/147 PA 3090 3155 3161 NONE 8.625 13.375 3120   |                    |                 |         |      |         |      |             |       | +    |               |      |      |           |        |        |  |        |        |
| #5 30-025- 07414 28 -18S -38E O 12//47 PA 3218 3199 3209 3199-3209 10.75 13.75 3204  #6 30-025- 07415 28 -18S -38E O 12//47 PA 3255 3236 3249 NONE 10.75 12.25 424  #6 30-025- 07552 33 -18S -38E G 5//49 PA 3194 3090 3161 NONE 10.75 12.50 3255  #7 A 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8 625 13.375 3100  #7 A 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8 625 11 411 411  #7 A 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8 625 11 411 411  #7 A 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8 625 11 411 307  #7 A 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8 625 11 411 307  #7 A 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8 625 11 411 307  #7 A 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8 625 11 411 307  #7 A 30-025- 12500 28 -18S -38E M 8//47 PA 3090 3155 3161 NONE 8 625 11 411 307   | ഗ                  | 30-025-         |         | 33   | -18S    | -38E |             | //48  |      | 3208          | 3175 | 3178 | NONE      | 9.625  | 12.25  | 462  | 250    | CIRC   |
| #6 30-025- 07414   | Altura             |                 |         |      |         |      |             |       |      | PBTD          |      |      |           | 5.5    | 7.875  | 3100   | 1000   | CIRC   |
| #6 30-025- 07414 28 -18S -38E O 12/147 PA 3218 3199 3209 10.75 13.75 422  #6 30-025- 07415 28 -18S -38E G 12/147 PA 3255 3236 3249 NONE 10.75 12.25 424  #6 30-025- 07415 28 -18S -38E G 5/149 PA 3194 3090 3161 NONE 10.75 15 3190  #7 30-025- 07557 33 -18S -38E B 5/148 PA 3055 3130 3226 NONE 9625 13.375 3100  #7 30-025- 12500 28 -18S -38E M 7/147 PA 3090 3155 NONE 8625 11 411 307  #7 30-025- 12500 28 -18S -38E M 7/147 PA 3090 3155 NONE 8625 11 411 307  #7 30-025- 12500 28 -18S -38E M 7/147 PA 3090 3155 NONE 8625 11 411 307  #7 30-025- 12500 28 -18S -38E M 7/147 PA 3090 3155 NONE 8625 11 411 307  #7 30-025- 12500 28 -18S -38E M 7/147 PA 3090 3155 NONE 8625 11 411 307  #7 30-025- 12500 28 -18S -38E M 7/147 PA 3090 3155 NONE 8625 11 411 307  #7 30-025- 12500 28 -18S -38E M 7/147 PA 3090 3155 NONE 8625 11 411 307  #7 30-025- 12500 28 -18S -38E M 7/147 PA 3090 3155 NONE 8625 11 411 307   |                    |                 |         |      |         |      |             |       |      |               |      |      |           |        |        | and the state of t |        |        |
| #6 30-025- 07415 28 -18S -38E J 12//47 PA 3255 3236 3249 NONE 10.75 12.25 424  33 #11 30-025- 07552 33 -18S -38E G 5//49 PA 3194 3090 3161 NONE 10.75 15 3190  3 #5 30-025- 07557 33 -18S -38E B 5//48 PA 3055 3130 3226 NONE 9.625 13.375 3100  as #6 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 411 411  as #7 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 411 307  | Grimes #5          | 30-025-         | . 07414 | 28   | -18S    | -38E |             | 2//47 |      | 3218          | 3199 | 3209 | 3199-3209 | 10.75  | 13.75  | 422  | 300    | CIRC** |
| #6 30-025- 07415 28 -18S -38E J 12//47 PA 3255 3236 3249 NONE 10.75 12.25 424  33 #11 30-025- 07552 33 -18S -38E G 5//49 PA 3194 3090 3161 NONE 10.75 15 33190  3 #5 30-025- 07557 33 -18S -38E B 5//48 PA 3055 3130 3226 NONE 9.625 13.375 300  nes #6 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 411  47 A 3050 3473 7476 NONE 8.625 11 3375 2778  | Conoco             |                 |         |      |         |      |             |       |      |               |      |      |           | 5.5    | 7.375  | 3204   | 650    | CIRC** |
| 33 #11 30-025- 07552 33 -18S -38E G 5//49 PA 3194 3090 3161 NONE 10.75 15 402 3 #5 30-025- 07557 33 -18S -38E B 5//48 PA 3055 3130 3226 NONE 9 625 13.375 300 nes #6 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 411  47 30-025 12400 28 18S 38E N 8//47 PA 3000 3155 3161 NONE 8.625 11 411 307  | Grimes #6          | 30-025-         | . 07415 | 28   | -18S    | 38E  | +           | 2//47 | -    |               | 3236 | 3249 | NONE      | 10.75  | 12.25  | 424  | 350    | CIRC** |
| 33#11 30-025- 07552 33 -18S -38E G 5//49 PA 3194 3090 3161 NONE 10.75 15 402 3 #5 30-025- 07557 33 -18S -38E B 5//48 PA 3055 3130 3226 NONE 9.625 13.375 3120  nes #6 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 411  147 A11 A11 A11  147 A12 BA 3000 3155 3161 NONE 8.625 11 411  148 A27 A175 NONE 8.625 11 300  148 A27 A175 NONE 8.625 11 300   | Conoco             |                 |         |      |         |      |             |       |      |               |      |      |           | 7      | 8.75   | 3255   | 550    | CIRC** |
| 33 #11 30-025- 07552 33 -18S -38E G 5//49 PA 3194 3090 3161 NONE 10.75 15 402 3 #5 30-025- 07557 33 -18S -38E B 5//48 PA 3055 3130 3226 NONE 9.625 13.375 3100 nes #6 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 411 nes #6 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 411 47 30.025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 300 47 30.025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 300   |                    |                 |         |      |         |      | -           |       |      |               |      |      |           |        | !      |  | 1      |        |
| 3 #5 30-025- 07557 33-18S -38E B 5//48 PA 3055 3130 3226 NONE 9.625 13.375 3100    nes #6 30-025- 12500 28-18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 411    nes #6 30-025- 12500 28-18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 411    17 30-025- 12500 28-18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 300    18 47 30-025- 12500 28-18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 300    19 50-025- 12500 28-18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 300    10 50-025- 12500 28-18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 300    10 50-025- 12500 28-18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 300    10 50-025- 12500 28-18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 300    10 50-025- 12500 28-18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 300    10 50-025- 12500 28-18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 300    10 50-025- 12500 28-18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 300    10 50-025- 12500 28-18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 300    10 50-025- 12500 28-18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 300    10 50-025- 12500 28-18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 300    10 50-025- 12500 28-18S -38E M 7//47 PA 3000 3155 3161 NONE 8.625 11 300    10 50-025- 12500 28-18S -38E M 7//47 PA 3000 3155 3161 NONE 8.625 11 300    10 50-025- 12500 28-18S -38E M 7//47 PA 3000 3155 3161 NONE 8.625 11 300    10 50-025- 12500 28-18S -38E M 7//47 PA 3000 3155 3161 NONE 8.625 11 300    10 50-025- 12500 28-18S -38E M 7//47 PA 3000 3155 3161 NONE 8.625 11 300    10 50-025- 12500 28-18S -38E M 7//47 PA 3000 3155 3161 NONE 8.625 11 300    10 50-025- 12500 28-18S -38E M 7//47 PA 3000 3155 3161 NONE 8.625 11 300    10 50-025- 12500 28-18S -38E M 7//47 PA 3000 3155 3161 NONE 8.625 11 300    10 50-025- 12500 28-18S -38E M 7//47 PA 3000 3155 3161 NONE 8.625 11 300    10 50-025- 12500 28-18S -38E M 7//47 PA 3000 3155 3161 NONE 8.625 11 300    10 50-025- 12500 28-18S -38E M 7//47 PA 3000 3155 3161 NONE 8.625 11 300    10 50-025- 12500 28-18S -38E M 7//47 PA 3000 3155 31 | State A-33 #11     | 30-025-         | 0/552   | 33   |         | -38E |             | 1/49  |      | 3194          | 3090 | 3161 | NONE      | 10.75  | 15     | 402  | 3/5    | CIRC   |
| es B #5 30-025- 07557 33 -18S -38E B 5//48 PA 3055 3130 3226 NONE 9625 13.375 300  Srimes #6 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 411  Scimes #6 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 411  Scimes #6 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 411  Scimes #6 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 411  Scimes #6 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 411  Scimes #6 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 411  Scimes #6 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 411  Scimes #6 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 411  Scimes #6 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 411  Scimes #6 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 411  Scimes #6 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 411  Scimes #6 30-025- 12500 38 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 411  Scimes #6 30-025- 12500 38 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 411  Scimes #6 30-025- 12500 38 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 411  Scimes #6 30-025- 12500 38 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8.625 11 411  Scimes #6 30-025- 12500 38 -18S -38E M 7//47 PA 3000 3155 3161 NONE 8.625 11 411  Scimes #6 30-025- 12500 38 -18S -38E M 7//47 PA 3000 3155 3161 NONE 8.625 11 411  Scimes #6 30-025- 12500 38 -18S -38E M 7//47 PA 3000 3155 3161 NONE 8.625 11 411  Scimes #6 30-025- 12500 38 -18S -38E M 7//47 PA 3000 3155 3161 NONE 8.625 11 411  Scimes #6 30-025- 12500 38 -18S -38E M 7//47 PA 3000 3155 3161 NONE 8.625 11 411  Scimes #6 30-025- 12500 38 -18S -38E M 7//47 PA 3000 3155 3161 NONE 8.625 11 411  Scimes #6 30-025- 12500 38 -18S -38E M 7//47 PA 3000 3155 3161 NONE 8.625 11 411  Scimes #6 30-025- 12500 38 -18S -18S -18S -18S -18S -18S -18S -18   | Conoco             |                 |         |      |         |      |             | :     |      | PBTD          |      |      |           |        | 7.875  | 3190   | 1200   | CIRC*  |
| Srimes #6       30-025- 12500       28 -18S -38E       M 7//47       PA 3090       3155       3161       NONE       8.625       11       411         55       7.875       2778   | Grimes B #5        | 30-025-         | . 07557 | 33   |         | 38E  | +           | //48  | -    | 3055          |      | 3226 | NONE      | 9.625  | 13.375 | 300  | 250    | CIRC   |
| Srimes #6 30-025- 12500 28 -18S -38E M 7//47 PA 3090 3155 3161 NONE 8 625 11 411 411 611 611 611 611 611 611 611   | Gulf               | of a control of |         |      |         |      |             |       |      | CMT           |      |      |           | 5.5    | 7.875  | 3120   | 700    | CIRC** |
| CMT CMT 5.5 7.875 2778   | WD Grimes #6       | 30-025-         | . 12500 | 28   | -18S    | -38E | -           | //47  |      |               | 3155 | 3161 | NONE      | 8.625  | 11     | 411  | 200    | CIRC** |
| 30 025 12400 28 188 38E N 8//47 DA 3000 3173 7176 NONE 8 625 11 307  | Shell              |                 |         |      |         |      |             |       |      | CMT           |      |      |           | 5.5    | 7.875  | 2778   | 1400   | CIRC** |
| 30 005 10400 00 18 188 38 N 8//47 DA 3000 3173 7176 NONE 8 605 11 307  |                    |                 | :       |      |         |      |             |       |      |               |      |      |           |        |        |  |        |        |
| 30-023- 12499 20-103 -30E N 0/4/ PA 3000 31/3 /1/0 NONE 0.023 11 39/   | Grimes #7          | 30-025-         | 12499   | 28   | 28 -185 | -38E | 8           | 8//47 | PA   | 3000          | 3173 | 7176 | NONE      | 8.625  | 11     | 397  | 200    | CIRC** |

| Well Name | API No. | Sec. | - | R | ηn  | Drill | Well TD o | r Top  | Bot. | Sqz.  | Csg. | Hole  |       | No. of |        |
|-----------|---------|------|---|---|-----|-------|-----------|--------|------|-------|------|-------|-------|--------|--------|
| Operator  |         |      |   |   | Ltr | Date  | Type PBTD | ) Perf | Perf | Perfs | Size | Size  | Depth | Sxs.   | Toc    |
| Shell     |         | -    |   |   |     |       | CMT       |        |      |       | 4.5  | 7.875 | 1976  | 850    | CIRC** |

### State G #3 Amoco Unit F, 2285 FNL & 2310 FWL Sec 33, T-18S, R-38E

WELL PLUGGED: 3/11/71

Size: 9.625" Depth: 462' Hole size: 12.25" Cmt: 250 sxs TOC: Circ.



Spotted 10 sxs plug at surface

Size: 5.5" Depth: 3100' Hole size: 7.875" Cmt: 1000 sxs TOC: Circ.

TD: 3208'

Spotted 25 sxs plug from 3208-3100

W. D. Grunes #3 Conoco Unit O, 1980 FEL & 660 FSL Sec 28, T-18S, R-38E

## WELL PLUGGED: 1/20/71

Size: 10.75" Depth: 422' Hole size: 13.75" Cmt: 300 sxs TOC: Circ.- Calc. 50% efficiency

Spotted 10 sxs plug at surface.

Size: 5.5" Depth: 3204' Hole size: 7.375" Cmt: 650 sxs TOC: Circ.- Calc. 50% efficiency

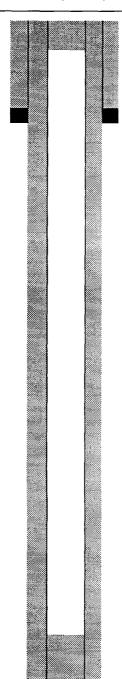
TD: 3218'

Spotted 40 sxs plug 3209-3199'

W. D. Grimes #0 Conoco Unit J, 1980 FEL & 1980 FSL Sec 28, T-18S, R-38E

WELL PLUGGED: 1/20/71

Size: 10.75" Depth: 424' Hole size: 12.25" Cmt: 350 sxs TOC: Circ.- Calc. 50% efficiency



Spotted 10 sxs plug at surface.

Size: 7" Depth: 3255' Hole size: 8.75" Cmt: 550 sxs TOC: Circ.- Calc. 50% efficiency

TD: 3255'

Spotted 40 sxs plug from 3249-3236'

### State A-33 #11 Conoco Unit G, 2310 FNL & 2310 FEL Sec 33, T-18S, R-38E

WELL PLUGGED: 3/18/87

Size: 10.75" Depth: 402' Hole size: 15" Cmt: 375 sxs TOC: Circ.- Calc. 50% efficiency Spotted

Spotted 20 sxs plug from 100' to surface

Spotted 20 sxs plug from 470-290'

Spotted 20 sxs plug from 1620-1370'

Spotted 35 sxs plug from 2850-2600'

Size: 5.5"
Depth: 3190'
Hole size: 7.875"
Cmt: 1200 sxs
TOC: Circ.- Calc.
50% efficiency

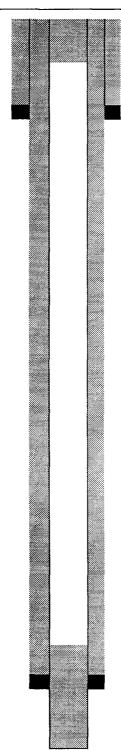
TD: 3194'

W. D. Grimes B #5 Gulf Unit B, Sec 33, T-18S, R-38E

## WELL PLUGGED: 4/18/60

Size: 9.625" Depth: 300' Hole size: 13.375"

Cmt: 250 sxs TOC: Circ.



Spotted 10 sxs plug from 80' to surface

Size: 5.5" Depth: 3120' Hole size: 7.875" Cmt: 700 sxs TOC: Circ.- Calc. 50% efficiency

TD: 3226

Spotted 35 sxs plug from 3226 to 2946'

W.D. Grimes #0 Shell Oil Co. Unit M, SW/4 of SW/4 Sec 28, T-18S, R-38E

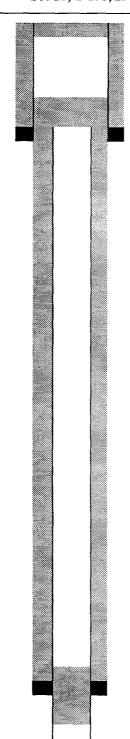
WELL PLUGGED: 10/24/53

Size: 8.625"
Depth: 411'
Hole size: 11"
Cmt: 200 sxs
TOC: Circ.- Calc.
50% efficiency

Spotted 5 sxs plug from 16' to surface

Spotted 5 sxs plug from 370-329'

Pulled 360' of 5.5" csg.



Size: 5.5" Depth: 2778' Hole size: 7.875" Cmt: 1400 sxs TOC:

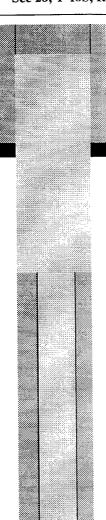
TD: 3200'

Spotted 6 sxs plug 3140-3090'

Grimes #/
Shell Oil Co.
Unit N
Sec 28, T-18S, R-38E

WELL PLUGGED: 3/27/51

Size: 8.625"
Depth: 397'
Hole size: 11"
Cmt: 200 sxs
TOC: Circ.- Calc.
50% efficiency



Spotted 10 sxs plug 60' to surface.

Hole full of heavy mud.

Shot 4.5 csg off at 1150'

Size: 4.5" Depth: 3126' Hole size: 7.875" Cmt: 850 sxs TOC:

TD: 3187

Spotted 10 sxs plug 3120-3000'