

BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION

**APPLICATION OF SMITH & MARRS
INC. FOR LEASE PRESSURE MAINTENANCE
PROJECT IN THE DELAWARE
FORMATION, IN EDDY COUNTY,
NEW MEXICO.**

RECEIVED OGC

2017 MAR 14 A 8:52

Case No. **15671**

APPLICATION FOR LEASE PRESSURE MAINTENANCE

Smith & Marrs Inc., by and through its undersigned attorney, applies for an order approving lease pressure maintenance, and in support thereof, states:

1. Applicant seeks approval to institute a lease pressure maintenance project in its Superior State #1, located in Unit H, Section 8, Township 25 South, Range 30 East, N.M.P.M., Eddy County, New Mexico.
2. Applicant intends to inject produced water into the Delaware Sand formation through its Superior State #1 well located 1980' FNL and 660' FEL, Unit H, Section 8, Township 25 South, Range 30 East, N.M.P.M., Eddy County, New Mexico, at depths of 3736' to 3776' feet (perforated).
3. Attached hereto is Form C-108.
4. The granting of this application will prevent waste and protect correlative rights.

WHEREFORE, Applicant requests that, after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,

PADILLA LAW FIRM, P.A.

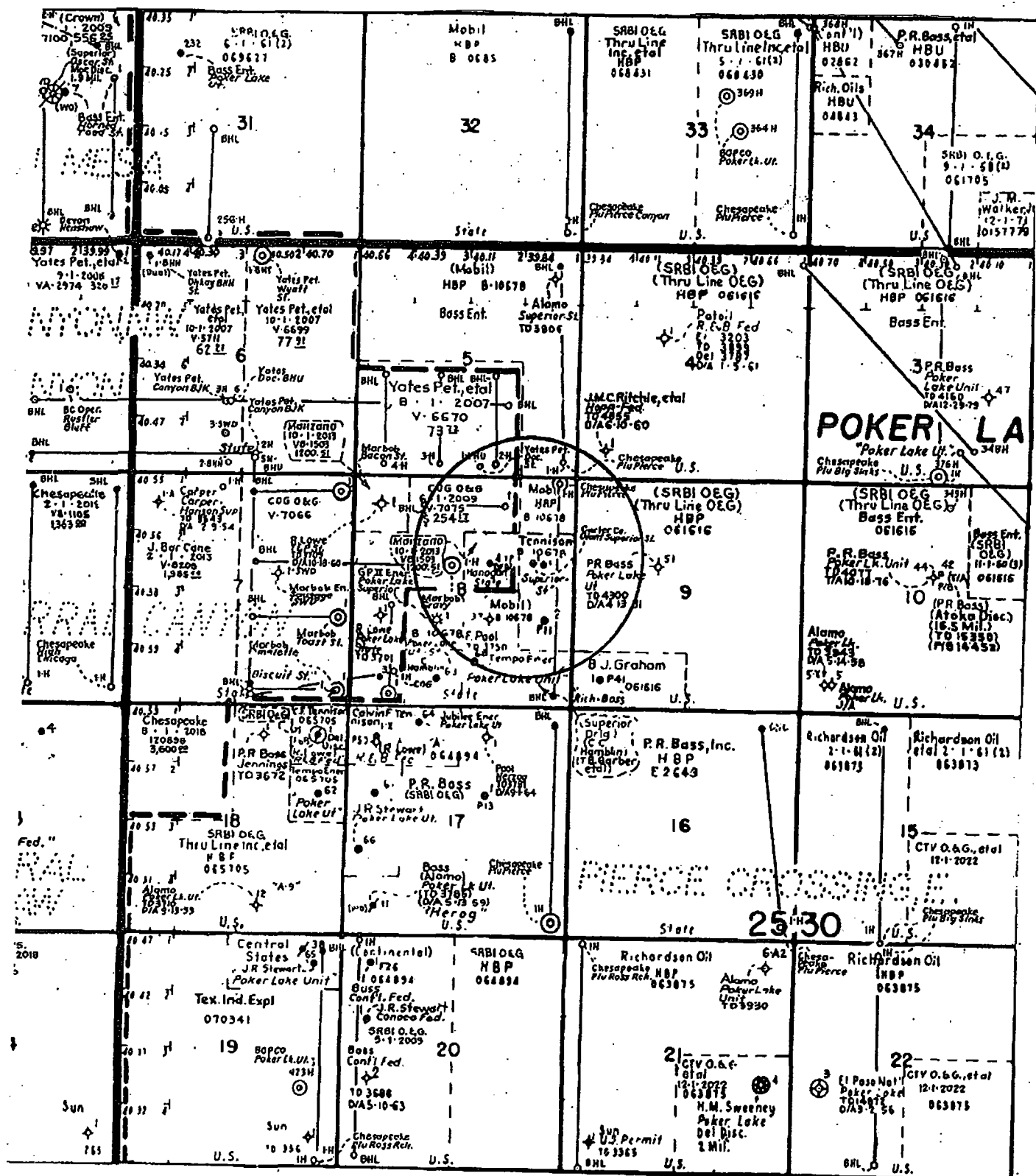
/s/ Ernest L. Padilla
ERNEST L. PADILLA,
Attorney for Smith & Marrs Inc.
PO Box 2523
Santa Fe, New Mexico 87504
505-988-7577

Case 15671

APPLICATION FOR AUTHORIZATION TO INJECT

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2017 MAR 14 A 8:55

- I. PURPOSE: Secondary Recovery ☒ Pressure Maintenance Disposal ☐ Storage
Application qualifies for administrative approval? ☒ Yes ☐ No
- II. OPERATOR: Smith and Marrs Inc.
ADDRESS: Box 310 Memphis, Texas 79245
CONTACT PARTY: Rickey Smith PHONE: 432-940-0490
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☐ Yes ☒ No
If yes, give 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 geologic data on the injection zone including appropriate lithologic detail, geologic 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 sources 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 available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources 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: Rickey Smith TITLE: Owner
SIGNATURE: *Rickey Smith* DATE: 7/27/15
E-MAIL ADDRESS: rickeysmith@classicnet.net
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: submitted when drilled.



ATTACHMENT TO APPLICATION C-108

Superior State #1 (API 30-015-04745)
Unit H, Sec. 8, Tws. 25 S., Rng. 30 E
Eddy Co., NM

III. WELL DATA

- A.
 - 1) See injection well data sheets and attached schematics.
 - 2) See injection well data sheets and attached schematics.
 - 3) 2 7/8" coated tubing.
 - 4) Baker lock set or the equivalent.
- B.
 - 1) Injection formation is the Delaware Sand.
 - 2) Injection interval 3736' to 3776'.
 - 3) This is an existing well converted for pressure maintenance.
 - 4) The next higher producing zone is the base of salt at 3480'
The next lower producing zone is the Bone Springs at approximately 7500'.

IV. NO.

V. MAP ATTACHED.

VI. LIST OF WELLS AND DATA ATTACHED.

- VII.** Smith and Marrs plans to convert the Superior State #1 as an injection well for pressure maintenance to benefit its own offset production from the Delaware formation. Will pull production equipment, go on hole and perforate as needed, acidize and put on injection. Plan to run 2 7/8" plastic coated tubing and packer set at approximately 3636' or within 100 ft. of upper most perfs. Load backside with packer fluid, run MIT and OCD requires and put on injection.

- 1) Plan to inject approximately 200 to 300 bpd of produced water from Smith and Marrs own wells, which are in the Delaware.
- 2) Closed system.
- 3) Average injection pressure should be approximately 600# or whatever limit OCD allows.
- 4) Only produced water from Delaware.

- VIII.** The proposed disposal formation is interbedded sand and limestone. The primary geologic formation is the Lower Delaware from 3736' to 3808'.

The fresh water formation for this area would be the Santa Rosa which would be between 300' to 400' below surface, no sampling points available.

IX. ACID AS NEEDED.

X. PREVIOUSLY SUBMITTED TO OCD.

XI. ATTACHED.

XII. I Eddie W. Seay, have examined all available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zones and any underground source of drinking water pertaining to this well.

XIII. ATTACHED.

INJECTION WELL DATA SHEET

WELL NAME & NUMBER: Superior State #1 (API 30-015-04745)

WELL LOCATION: 1980/N 1660/E H 8 25 30
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELL CONSTRUCTION DATA

Hole Size: 9 Casing Size: 7

Cemented with: **135** . SX. *or* . ft³

Top of Cement: See sec Method Determined: Cure

Hole Size: _____ Casing Size: _____

Cemented with: _____ SX. *or* _____ ft.

Top of Cement: _____ Method Determined: _____

Hole Size: 6.25 Casing Size: 4.5

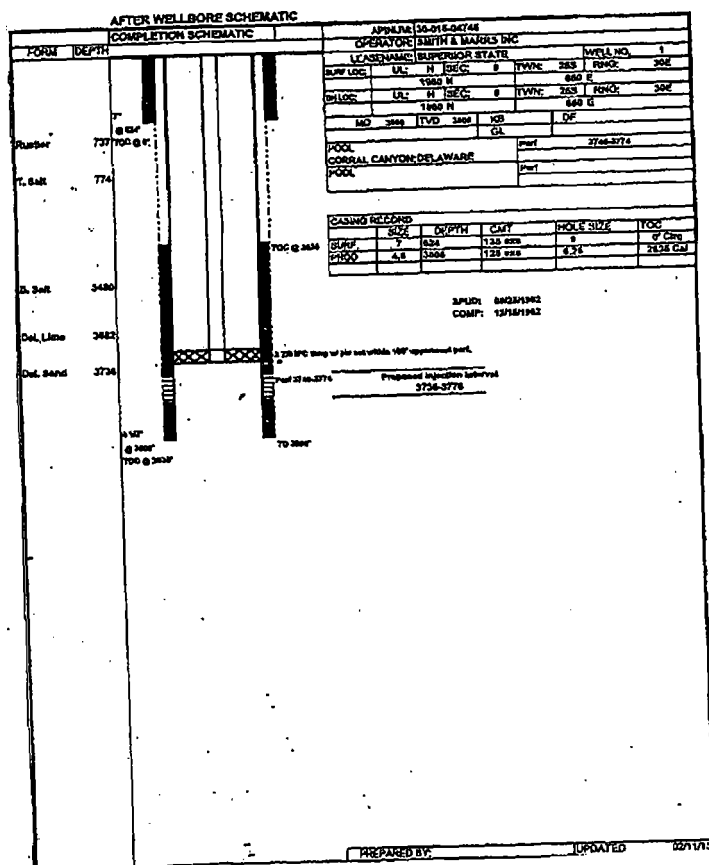
Cemented with: 125 SX OF ft

Top of Cement: 2635 Method Determined: Cal. H.

Total Depth: 3808

3736 feet to 3776

(Perforated or Open Hole; indicate which)



INJECTION WELL DATA SHEET

Tubing Size: 2 3/4 Lining Material: IPC
Type of Packer: Baker loc set
Packer Setting Depth: Approx 3636 m within 100 ft. of top parts.
Other Type of Tubing/Casing Seal (if applicable): NONE

Additional Data

1. Is this a new well drilled for injection? Yes X No
If no, for what purpose was the well originally drilled? Delaware producer
which is non-economic
2. Name of the Injection Formation: Delaware
3. Name of Field or Pool (if applicable): Corral Canyon Delaware
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No only
Delaware
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Upper most zone is base of Salt 3480
lower most zone is the Bone Springs 7500

DISPOSAL WELL

| | | | | | | | | | | | | | | | | | | |
|--------------|----------------|---|-------------------|------|---|---|------|---|---|---|----|---|----|---|------|---|-----|---|
| 30-015-04745 | SUPERIOR STATE | 1 | SMITH & MARRS INC | 3808 | O | A | Eddy | S | H | 8 | 25 | S | 30 | E | 1980 | N | 660 | E |
|--------------|----------------|---|-------------------|------|---|---|------|---|---|---|----|---|----|---|------|---|-----|---|

| API # | PROPERTY NAME | # | OPERATOR | TD | TYPE | STAT | CO | LAND | U/L | SEC | TWN | RNG | N/S | E/W | Dist |
|--------------|---------------------------|----|-----------------------|-------|------|------|------|------|-----|-----|------|------|--------|--------|------|
| 30-015-36998 | POKER LAKE UNIT CVX JV PC | 4H | BOPCO, L.P. | 12327 | O | A | Eddy | S | P | 5 | 25 S | 30 E | 350 S | 350 E | 2344 |
| 30-015-37937 | POKER LAKE UNIT CVX JV PC | 7H | BOPCO, L.P. | 12700 | O | A | Eddy | S | A | 8 | 25 S | 30 E | 145 N | 400 E | 1847 |
| 30-015-37260 | EGGS STATE COM | 1H | COG OPERATING LLC | 13837 | O | A | Eddy | S | B | 8 | 25 S | 30 E | 660 N | 1650 E | 1679 |
| 30-015-37053 | GRAVY STATE COM | 1H | COG OPERATING LLC | 12155 | O | A | Eddy | S | F | 8 | 25 S | 30 E | 1980 N | 2310 W | 2310 |
| 30-015-04746 | HANAGAN STATE | 1 | GIANT OPERATING LLC | 3773 | O | A | Eddy | S | G | 8 | 25 S | 30 E | 1980 N | 1980 E | 1368 |
| 30-015-37077 | GIANT SUPERIOR STATE | 1 | SMITH & MARRS INC | 6000 | O | A | Eddy | S | H | 8 | 25 S | 30 E | 1983 N | 990 E | 378 |
| 30-015-10181 | SUPERIOR STATE | 2 | SMITH & MARRS INC | 3763 | O | A | Eddy | S | I | 8 | 25 S | 30 E | 1980 S | 660 E | 1320 |
| 30-015-20116 | POKER LAKE UNIT | 37 | FRED POOL DRILLING CO | 3756 | O | P | Eddy | S | J | 8 | 25 S | 30 E | 1980 S | 1980 E | 1901 |
| 30-015-23606 | POKER LAKE UNIT | 51 | PERRY R BASS | 3962 | O | P | Eddy | F | F | 9 | 25 S | 30 E | 1980 N | 1980 W | 2592 |

AFTER WELLBORE SCHEMATIC

| COMPLETION SCHEMATIC | | APINUM: 30-015-04745 | |
|----------------------|-------|---|----------------|
| FORM | DEPTH | OPERATOR: SMITH & MARRS INC | |
| | | LEASENAME: SUPERIOR STATE | |
| | | WELL NO. 1 | |
| | | SURF LOC: UL: H SEC: 8 TWN: 25S RNG: 30E | |
| | | 1980 N 660 E | |
| | | BH LOC: UL: H SEC: 8 TWN: 25S RNG: 30E | |
| | | 1980 N 660 E | |
| | | MD 3808 TVD 3808 KB DF | |
| | | GL | |
| | | POOL CORRAL CANYON; DELAWARE | Perf 3740-3774 |
| | | POOL | Perf |
| | | Casing Record | |
| | | SIZE | DEPTH |
| | | CMT | HOLE SIZE |
| | | TOC | |
| | | SURF. 7 624 135 sxs 9 0' Circ | |
| | | PROD 4.5 3808 125 sxs 6.25 2635 Cal | |
| | | SPUD: 08/25/1962 | |
| | | COMP: 12/15/1962 | |
| | | 2 7/8 IPC tbng w/ pkr set within 100' uppermost perf. | |
| | | Perf 3740-3774 Proposed Injection Interval 3736-3776 | |
| | | 4 1/2" @ 3808' TOC @ 2635' | |
| | | TD 3808' | |
| | | TOC @ 2635 | |
| | | TOC @ 0' | |
| | | 7" | |
| | | @ 624' | |
| | | Rustler 737 | |
| | | T. Salt 774 | |
| | | B. Salt 3480 | |
| | | Del. Lime 3682 | |
| | | Del. Sand 3736 | |

PREPARED BY:

UPDATED

02/11/15

WELLBORE SCHEMATIC AND HISTORY

| COMPLETION SCHEMATIC | | APINUM: 30-015-04746 | |
|----------------------|-------|--|--|
| FORM | DEPTH | OPERATOR: GIANT OPERATING LLC | |
| Rustler | 665 | LEASENAME: HANAGAN STATE | |
| | | WELL NO. 1 | |
| | | SURF LOC: UL: G SEC: 8 TWN: 25S RNG: 30E | |
| | | 1980 N 1980 E | |
| | | BH LOC: UL: G SEC: 8 TWN: 25S RNG: 30E | |
| T. Salt | 705 | 1980 N 1980 E | |
| | | MD 3773 TVD 3773 KB DF | |
| | | GL | |
| | | POOL CORRAL CANYON; DELAWARE | |
| | | POOL | |
| B. Salt | 3410 | Perf 3709-3711 | |
| | | | |
| | | | |
| | | | |
| | | | |
| Del. Lime | 3675 | Casing Record | |
| | | | |
| | | | |
| | | | |
| | | | |
| Del. Sand | 3705 | SPUD: 10/15/1961 | |
| | | COMP: 01/22/1962 | |
| | | Proposed Injection Interval | |
| | | 3705-3745 | |
| | | | |

PREPARED BY:

UPDATED

02/11/15

WELLBORE SCHEMATIC AND HISTORY

| COMPLETION SCHEMATIC | | APINUM: 30-015-10181 | | | | | | | | | | | | | | | | | |
|--|--------------|---|--------------|-----------|----------|-----------|----------|----------|--------------|-----|---------|----|---------|------|-----|------|--------|-------|----------|
| FORM | DEPTH | OPERATOR: SMITH & MARRS INC | | | | | | | | | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Rustler 740</p> <p>T. Salt 775</p> <p>B. Salt 3428</p> <p>Del. Lime 3710</p> <p>Del. Sand 3740</p> </div> <div style="width: 50%;"> <p>8 5/8" @ 570'</p> <p>TOC @ 0'</p> <p>TOC @ 3481</p> <p>OH 3739-3763</p> <p>TD 3763'</p> </div> </div> | | LEASENAME: SUPERIOR STATE | | | | | | | | | | | | | | | | | |
| | | WELL NO. 2 | | | | | | | | | | | | | | | | | |
| | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">SURF LOC:</td> <td style="width: 25%;">UL: 1</td> <td style="width: 25%;">SEC: 8</td> <td style="width: 25%;">TWN: 25S</td> <td style="width: 20%;">RNG: 30E</td> </tr> <tr> <td colspan="5" style="text-align: center;">1980 S 660 E</td> </tr> </table> | | SURF LOC: | UL: 1 | SEC: 8 | TWN: 25S | RNG: 30E | 1980 S 660 E | | | | | | | | | | |
| | | SURF LOC: | UL: 1 | SEC: 8 | TWN: 25S | RNG: 30E | | | | | | | | | | | | | |
| | | 1980 S 660 E | | | | | | | | | | | | | | | | | |
| | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">BH LOC:</td> <td style="width: 25%;">UL: 1</td> <td style="width: 25%;">SEC: 8</td> <td style="width: 25%;">TWN: 25S</td> <td style="width: 20%;">RNG: 30E</td> </tr> <tr> <td colspan="5" style="text-align: center;">1980 S 660 E</td> </tr> </table> | | BH LOC: | UL: 1 | SEC: 8 | TWN: 25S | RNG: 30E | 1980 S 660 E | | | | | | | | | | |
| | | BH LOC: | UL: 1 | SEC: 8 | TWN: 25S | RNG: 30E | | | | | | | | | | | | | |
| | | 1980 S 660 E | | | | | | | | | | | | | | | | | |
| | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">MD 3763</td> <td style="width: 25%;">TVD 3763</td> <td style="width: 25%;">KB</td> <td style="width: 25%;">DF</td> </tr> <tr> <td colspan="4" style="text-align: center;">GL</td> </tr> </table> | | MD 3763 | TVD 3763 | KB | DF | GL | | | | | | | | | | | |
| | | MD 3763 | TVD 3763 | KB | DF | | | | | | | | | | | | | | |
| GL | | | | | | | | | | | | | | | | | | | |
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| POOL CORRAL CANYON; DELAWARE | OH 3739-3763 | | | | | | | | | | | | | | | | | | |
| POOL | Perf | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 20%;">CASING RECORD</th> <th style="width: 15%;">SIZE</th> <th style="width: 15%;">DEPTH</th> <th style="width: 20%;">CMT</th> <th style="width: 20%;">HOLE SIZE</th> <th style="width: 10%;">TOC</th> </tr> <tr> <td>SURF.</td> <td>8.625</td> <td>670</td> <td>165 sxs</td> <td>11</td> <td>0' Circ</td> </tr> <tr> <td>PROD</td> <td>5.5</td> <td>3739</td> <td>75 sxs</td> <td>7.875</td> <td>3481 Cal</td> </tr> </table> | | CASING RECORD | SIZE | DEPTH | CMT | HOLE SIZE | TOC | SURF. | 8.625 | 670 | 165 sxs | 11 | 0' Circ | PROD | 5.5 | 3739 | 75 sxs | 7.875 | 3481 Cal |
| CASING RECORD | SIZE | DEPTH | CMT | HOLE SIZE | TOC | | | | | | | | | | | | | | |
| SURF. | 8.625 | 670 | 165 sxs | 11 | 0' Circ | | | | | | | | | | | | | | |
| PROD | 5.5 | 3739 | 75 sxs | 7.875 | 3481 Cal | | | | | | | | | | | | | | |
| <p>SPUD: 02/27/1963</p> <p>COMP: 05/06/1963</p> | | | | | | | | | | | | | | | | | | | |
| <p>Proposed Injection Interval</p> <p>3740-3780</p> | | | | | | | | | | | | | | | | | | | |
| <p>PREPARED BY:</p> | | | | | | | | | | | | | | | | | | | |

UPDATED 02/11/15

WELLBORE SCHEMATIC AND HISTORY

| COMPLETION SCHEMATIC | | APINUM: 30-015-20116 | | | |
|---|-------|---|--|--|--|
| FORM | DEPTH | OPERATOR: FRED POOL DRILLING COMPANY | | | |
| <div style="display: flex; flex-direction: column; align-items: flex-start;"> <div style="margin-bottom: 10px;">Rustler</div> <div style="margin-bottom: 10px;">T. Salt</div> <div style="margin-bottom: 10px;">B. Salt</div> <div style="margin-bottom: 10px;">Del. Lime</div> <div>Del. Sand</div> </div> | | <div style="display: flex; justify-content: space-between;"> <div> Plug 10 sx </div> <div> Plug 35 sx @ 715 Plug 35 sxs @ 1600 Plug 35 sxs @ 3221 Cut & Pull '3213' TOC @ ???? Plug 26 sxs @ 3655 </div> </div> | | | |
| | 890 | <div style="display: flex; justify-content: space-between;"> <div> 8 5/8" @ 570' TOC @ 0' </div> <div> Plug 35 sxs @ 1600 </div> </div> | | | |
| | 925 | <div style="display: flex; justify-content: space-between;"> <div> 8 5/8" @ 570' TOC @ 0' </div> <div> Plug 35 sxs @ 1600 </div> </div> | | | |
| | 3450 | <div style="display: flex; justify-content: space-between;"> <div> 8 5/8" @ 570' TOC @ 0' </div> <div> Plug 35 sxs @ 1600 </div> </div> | | | |
| | 3710 | <div style="display: flex; justify-content: space-between;"> <div> 8 5/8" @ 570' TOC @ 0' </div> <div> Plug 35 sxs @ 1600 </div> </div> | | | |
| | 3740 | <div style="display: flex; justify-content: space-between;"> <div> 8 5/8" @ 570' TOC @ 0' </div> <div> Plug 35 sxs @ 1600 </div> </div> | | | |
| | | <div style="display: flex; justify-content: space-between;"> <div> 8 5/8" @ 570' TOC @ 0' </div> <div> Plug 35 sxs @ 1600 </div> </div> | | | |
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Proposed Injection Interval
3740-3780

TD 3756'

CASING RECORD

| | SIZE | DEPTH | CMT | HOLE SIZE | TOC |
|---------|-------|-----------|---------|-----------|---------|
| SURF. | 8.625 | 670 | 165 sxs | 11 | 0' Circ |
| PROD | 5.5 | 3739 | 75 sxs | 7.875 | ???? |
| Liner 1 | 3 1/2 | 3684-3748 | 20 sxs | | |

SPUD: 12/11/1967
COMP: 01/28/1974
P&A: 01/28/1974

PREPARED BY:

UPDATED

WELLBORE SCHEMATIC AND HISTORY

| COMPLETION SCHEMATIC | | APINUM: 30-015-23606 | | | | | | | | | | | | | | | | | | | |
|---|----------|--|---------|-----------|---------|-------|-----|-----------|-----|-------|-------|-----|---------|--------|---------|------|--|--|--|--|--|
| FORM | DEPTH | OPERATOR: PERRY R BASS | | | | | | | | | | | | | | | | | | | |
| Rustler T. Salt B. Salt Del. Lime Del. Sand | 740 | LEASENAME: POKER LAKE UNIT SURF LOC: UL: F SEC: 9 TWN: 25S RNG: 30E 1980 N 1980 W BH LOC: UL: F SEC: 9 TWN: 25S RNG: 30E 1980 N 1980 W MD 3962 TVD 3962 KB DF GL POOL DRY HOLE POOL OH Perf | | | | | | | | | | | | | | | | | | | |
| | 8 5/8" | Plug 10 sx | | | | | | | | | | | | | | | | | | | |
| | @ 976' | Plug 50 sx | | | | | | | | | | | | | | | | | | | |
| | TOC @ 0' | | | | | | | | | | | | | | | | | | | | |
| | 3558 | | | | | | | | | | | | | | | | | | | | |
| | 3764 | | | | | | | | | | | | | | | | | | | | |
| | 3794 | Plug 50 sxs 3763-3813 Proposed Injection Interval 3784-3834 TD 3962' | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | CASING RECORD <table border="1"> <thead> <tr> <th></th> <th>SIZE</th> <th>DEPTH</th> <th>CMT</th> <th>HOLE SIZE</th> <th>TOC</th> </tr> </thead> <tbody> <tr> <td>SURF.</td> <td>8.625</td> <td>975</td> <td>400 sxs</td> <td>12 1/4</td> <td>0' Circ</td> </tr> <tr> <td>PROD</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | SIZE | DEPTH | CMT | HOLE SIZE | TOC | SURF. | 8.625 | 975 | 400 sxs | 12 1/4 | 0' Circ | PROD | | | | | |
| | SIZE | DEPTH | CMT | HOLE SIZE | TOC | | | | | | | | | | | | | | | | |
| SURF. | 8.625 | 975 | 400 sxs | 12 1/4 | 0' Circ | | | | | | | | | | | | | | | | |
| PROD | | | | | | | | | | | | | | | | | | | | | |
| | | SPUD: 04/01/1981 P&A : 04/12/1981 | | | | | | | | | | | | | | | | | | | |
| | | PREPARED BY: _____ UPDATED 02/11/15 | | | | | | | | | | | | | | | | | | | |

WELLBORE SCHEMATIC AND HISTORY

| COMPLETION SCHEMATIC | | APINUM: 30-015-36998 | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------|--|----------|-----------|--------|-----------|-----|------|--------|-----|---------|------|--------|------|-------|------|----------|------|--------|------|-----|-------|----------|------|------|
| FORM | DEPTH | OPERATOR: BOBCO, LP | | | | | | | | | | | | | | | | | | | | | | | |
| | | LEASENAME: POKER LAKE UNIT CVX JV PC | | | | | | | | | | | | | | | | | | | | | | | |
| | | WELL NO. 4H | | | | | | | | | | | | | | | | | | | | | | | |
| | | SURF LOC: UL: P SEC: 5 TWN: 26S RNG: 30E | | | | | | | | | | | | | | | | | | | | | | | |
| | | 350 S 350 E | | | | | | | | | | | | | | | | | | | | | | | |
| | | BH LOC: UL: A SEC: 5 TWN: 26S RNG: 30E | | | | | | | | | | | | | | | | | | | | | | | |
| | | 398 N 502 E | | | | | | | | | | | | | | | | | | | | | | | |
| | | MD 12357 TVD 7897 KB DF | | | | | | | | | | | | | | | | | | | | | | | |
| | | GL 3243 | | | | | | | | | | | | | | | | | | | | | | | |
| | | POOL | | | | | | | | | | | | | | | | | | | | | | | |
| | | PIERCE CROSSING, BS, EAST | | | | | | | | | | | | | | | | | | | | | | | |
| POOL | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perf MD 7900-12327 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TVD 7826-7897 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perf | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Casing Record | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th></th> <th>SIZE</th> <th>DEPTH</th> <th>CMT</th> <th>HOLE SIZE</th> <th>TOC</th> </tr> </thead> <tbody> <tr> <td>SURF</td> <td>13.375</td> <td>695</td> <td>900 sxs</td> <td>17.5</td> <td>0 Circ</td> </tr> <tr> <td>INT1</td> <td>9.625</td> <td>3730</td> <td>1121 sxs</td> <td>12.5</td> <td>0 Circ</td> </tr> <tr> <td>PROD</td> <td>5.5</td> <td>12357</td> <td>1845 sxs</td> <td>8.75</td> <td>3197</td> </tr> </tbody> </table> | | | SIZE | DEPTH | CMT | HOLE SIZE | TOC | SURF | 13.375 | 695 | 900 sxs | 17.5 | 0 Circ | INT1 | 9.625 | 3730 | 1121 sxs | 12.5 | 0 Circ | PROD | 5.5 | 12357 | 1845 sxs | 8.75 | 3197 |
| | SIZE | DEPTH | CMT | HOLE SIZE | TOC | | | | | | | | | | | | | | | | | | | | |
| SURF | 13.375 | 695 | 900 sxs | 17.5 | 0 Circ | | | | | | | | | | | | | | | | | | | | |
| INT1 | 9.625 | 3730 | 1121 sxs | 12.5 | 0 Circ | | | | | | | | | | | | | | | | | | | | |
| PROD | 5.5 | 12357 | 1845 sxs | 8.75 | 3197 | | | | | | | | | | | | | | | | | | | | |
| SPUD: 01/02/2010 | | | | | | | | | | | | | | | | | | | | | | | | | |
| COMP: 03/02/2010 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Proposed Injection Interval 3733-3773 | | | | | | | | | | | | | | | | | | | | | | | | | |
| MD: 12357 TVD: 7897 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perfs MD 7900-12327 Perfs TVD 7826-7897 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 1/2\"/> | | | | | | | | | | | | | | | | | | | | | | | | | |
| @ MD 12357' TOC @ 3197' | | | | | | | | | | | | | | | | | | | | | | | | | |
| PREPARED BY: | | | | | | | | | | | | | | | | | | | | | | | | | |
| UPDATED 02/11/15 | | | | | | | | | | | | | | | | | | | | | | | | | |

WELLBORE SCHEMATIC AND HISTORY

| COMPLETION SCHEMATIC | | APINUM: 30-015-37053 | |
|----------------------|-------|-----------------------------|--------------------------------|
| FORM | DEPTH | OPERATOR: COG OPERATING LLC | |
| | | LEASENAME: GRAVY STATE COM | |
| | | SURF LOC: | UL: F SEC: 8 TWN: 26S RNG: 30E |
| | | | 1980 N 2310 W |
| | | BH LOC: | UL: G SEC: 7 TWN: 25S RNG: 30E |
| | | | 1980 N 2260 E |
| | | MD 12357 TVD 7835 | KB GL 3208 DF |
| | | POOL | |
| | | PIERCE CROSSING; BS, EAST | |
| | | POOL | |
| | | Perf MD 8950-12000 | |
| | | TVD 7846-7836 | |
| | | Perf | |
| Casing Record | | | |
| | | SIZE | DEPTH |
| | | CMT | HOLE SIZE |
| | | TOC | |
| | | SURF. | 13.375 |
| | | 728 | 650 sxs |
| | | 17.5 | 0 Circ |
| | | INT1 | 9.625 |
| | | 5524 | 1125 sxs |
| | | 12.6 | 0 Circ |
| | | PROD | 6.6 |
| | | 12155 | 1900 sxs |
| | | 8.75 | 3200 TS |
| | | SPUD: 05/16/2009 | |
| | | COMP: 08/13/2009 | |
| | | Proposed Injection Interval | |
| | | 3648-3688 | |
| | | TOC @ 3200 | |
| | | 9 5/8" | |
| | | @ 5524' | |
| | | TOC @ 0' | |
| | | Bone Spring 7509 | |
| | | MD : 12155 | |
| | | TVD: 7836 | |
| | | 6 1/2" | |
| | | @ MD 12155' | |
| | | TOC @ 3200' | |
| | | Perfs MD 8950-12000 | |
| | | Perfs TVD 7846-7836 | |
| Rustler 720 | | | |
| T. Salt 765 | | | |
| B. Salt 3378 | | | |
| Del. Lime 3598 | | | |
| Del. Sand 3648 | | | |

PREPARED BY:

UPDATED

02/11/15

COMPLETION SCHEMATIC

02/11/15

WELLBORE SCHEMATIC AND HISTORY

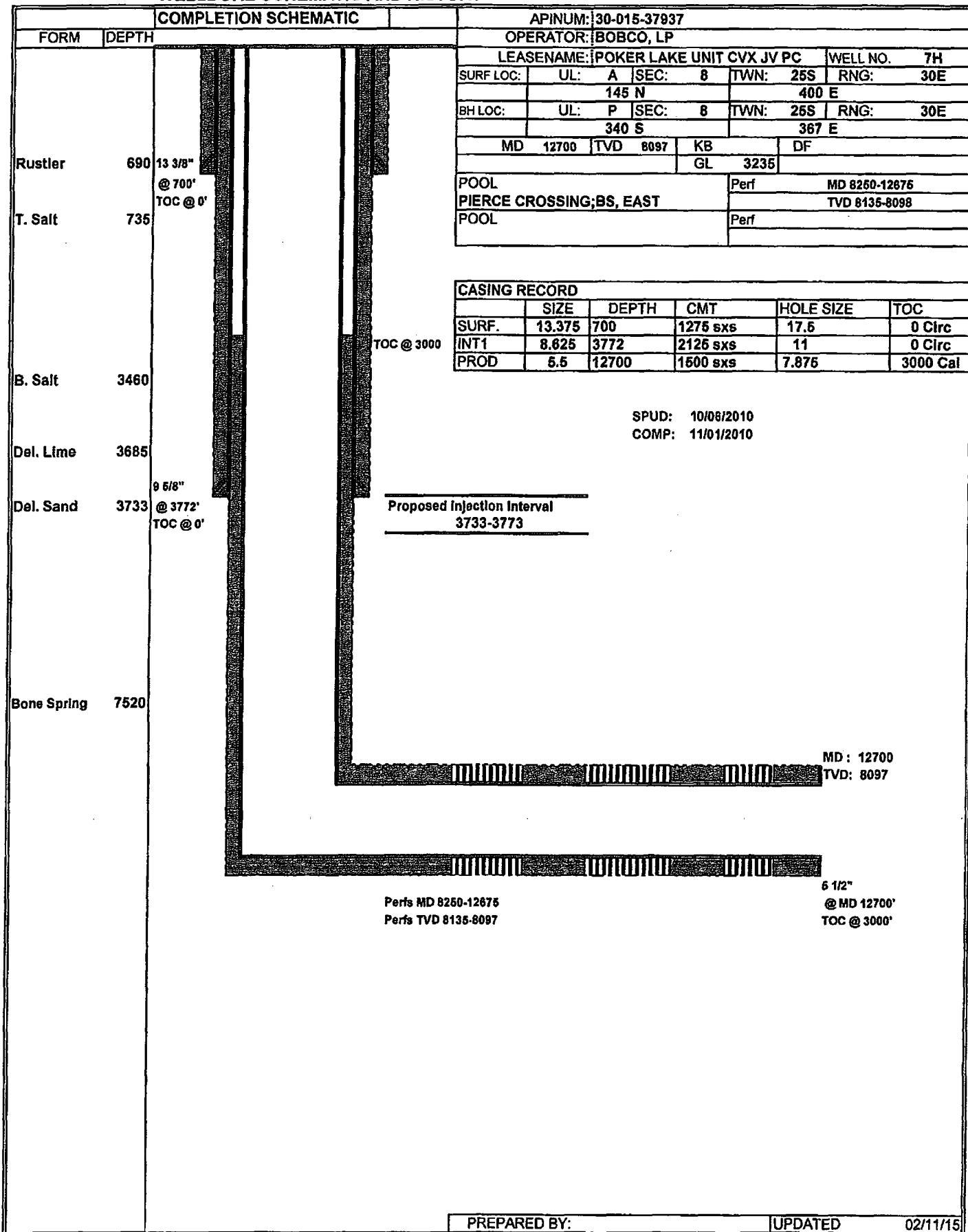
| COMPLETION SCHEMATIC | | APINUM: 30-015-37260 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------|--|----------|-----------|--------------------|---------------|--|--|--|--|--|--|------|-------|-----|-----------|-----|-------|--------|-----|---------|------|--------|------|-------|------|---------|------|--------|------|-----|-------|----------|------|--------|
| FORM | DEPTH | OPERATOR: COG OPERATING LLC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | LEASENAME: EGGS STATE COM | | | WELL NO. 1H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SURF LOC: | UL: B | SEC: 8 | TWN: 25S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 660 N | | 1660 E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | BH LOC: | UL: B | SEC: 7 | TWN: 26S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 438 N | | 2329 E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | MD 13837 | TVD 7997 | KB | DF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | GL | 3212 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | POOL: PIERCE CROSSING; BS, EAST | | | Perf MD 9803-13837 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | POOL: | | | TVD 7786-7998 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Perf | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="6">CASING RECORD</th> </tr> <tr> <th></th> <th>SIZE</th> <th>DEPTH</th> <th>CMT</th> <th>HOLE SIZE</th> <th>TOC</th> </tr> </thead> <tbody> <tr> <td>SURF.</td> <td>13.375</td> <td>936</td> <td>850 sxs</td> <td>17.5</td> <td>0 Circ</td> </tr> <tr> <td>INT1</td> <td>9.625</td> <td>3535</td> <td>950 sxs</td> <td>12.5</td> <td>0 Circ</td> </tr> <tr> <td>PROD</td> <td>5.6</td> <td>13837</td> <td>2050 sxs</td> <td>8.75</td> <td>0 Circ</td> </tr> </tbody> </table> | | | | | | CASING RECORD | | | | | | | SIZE | DEPTH | CMT | HOLE SIZE | TOC | SURF. | 13.375 | 936 | 850 sxs | 17.5 | 0 Circ | INT1 | 9.625 | 3535 | 950 sxs | 12.5 | 0 Circ | PROD | 5.6 | 13837 | 2050 sxs | 8.75 | 0 Circ |
| CASING RECORD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SIZE | DEPTH | CMT | HOLE SIZE | TOC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SURF. | 13.375 | 936 | 850 sxs | 17.5 | 0 Circ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INT1 | 9.625 | 3535 | 950 sxs | 12.5 | 0 Circ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PROD | 5.6 | 13837 | 2050 sxs | 8.75 | 0 Circ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SPUD: 02/12/2011 COMP: 09/24/2011 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rustler | 720 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T. Salt | 765 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <div style="border: 1px solid black; padding: 5px; display: inline-block;"> Proposed Injection Interval 3648-3688 </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B. Salt | 3378 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Del. Lime | 3598 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Del. Sand | 3648 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | MD : 13837 TVD: 7997 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 5 1/2" @ MD 13837' TOC @ 3200' | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Spring | 7509 | Perfs MD 9803-13726 Perfs TVD 7786-7998 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

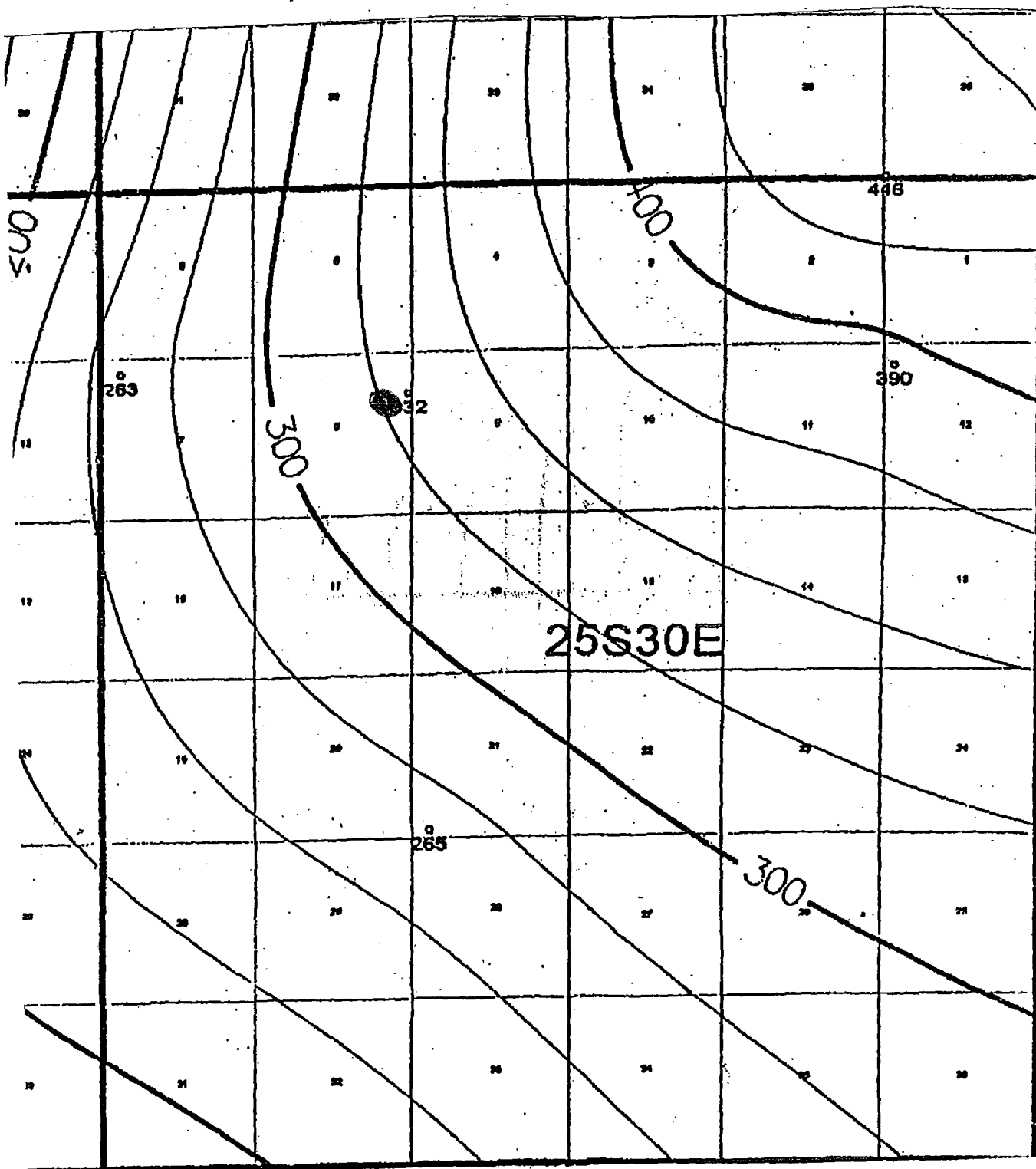
PREPARED BY:

UPDATED

02/11/15

WELLBORE SCHEMATIC AND HISTORY





Groundwater Map

● Proposed injection well

NOTICES

SURFACE OWNER

State of New Mexico
New Mexico State Land Office
310 Old Santa Fe Trail
Box 1148
Santa Fe, NM 87504

OFFSET OPERATIONS

Bureau of Land Management
620 E. Green St.
Carlsbad, NM 88220

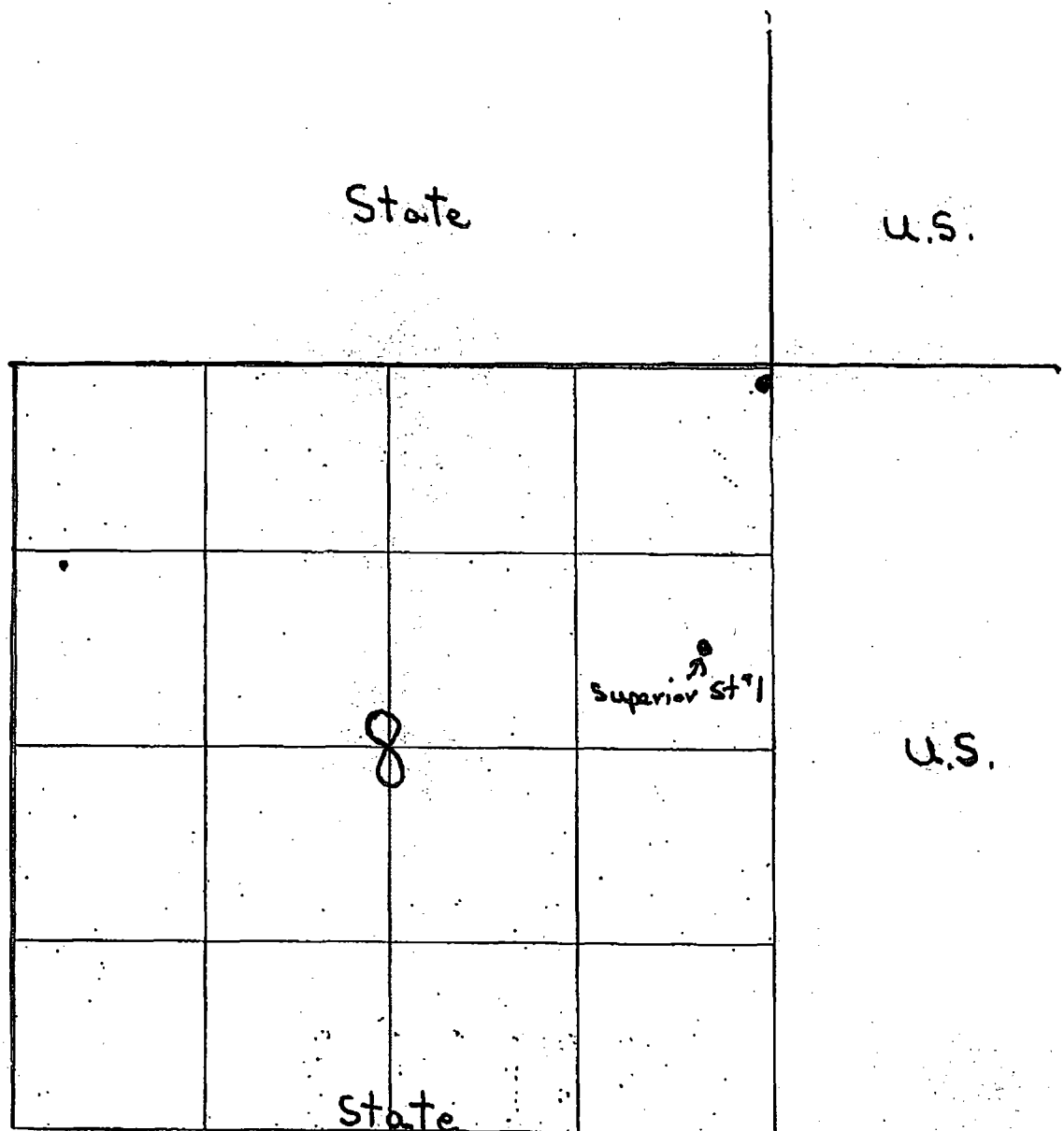
Giant Operating, LLC
2100 Ross Ave., Ste. 950
Dallas, TX 75201

Fred Pool Drilling Co.
Box 5321
Midland, TX 79701

BOPCO, LP
6 Desta Dr. Ste. 3700
Box 2760
Midland, TX 79702

COG Operating, LLC
550 W. Texas Ave., Ste. 1300
Midland, TX 79701

Surface & Mineral



Affidavit of Publication

No. 23572

State of New Mexico

County of Eddy:

Danny Scott

being duly sworn says that she is the

Publisher

of the Artesia Daily Press, a daily newspaper of General circulation, published in English at Artesia, said county and state, and that the hereto attached

Legal Notice

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for

1 Consecutive weeks/day on the same

day as follows:

First Publication July 17, 2015

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Sixth Publication

Subscribed and sworn before me this

17th day of July 2015



OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2019

Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

LEGAL NOTICE

Pursuant to the rules and regulations of the Oil Conservation Division of the State of New Mexico, Smith and Marris Inc., Box 310, Memphis, TX 79245, is filing a C-108 to convert an existing well to a Pressure Maintenance Injection. The well being applied for is the Superior State #1, located in Unit H, 1980/N 660/E Section 8, township 25 South, Range 30 East, Eddy Co., NM. The injection formation is the Delaware Sand from 3736' to 3776' below surface. Expected maximum injection rate is 200 to 300 bpd, of Smith and Marris on Delaware produced water, the expected maximum injection pressure is 600 psi or what the OCD allows. Any questions about the application can be directed to Eddie W. Seay, (575)992-2238, or any objection or request for hearing must be directed to the Oil Conservation Division, (505)478-3440, 1220 south Saint Francis Drive, Santa Fe, NM 87504, within fifteen (15) days. Published in the Artesia Daily Press, Artesia, N.M., July 17, 2015 Legal No. 23572.

NMOCD Case No. 15671

Application of Smith and Marrs Inc., for approval of lease pressure maintenance project, in Eddy County, New Mexico; Applicant seeks approval to institute a lease pressure maintenance project in its Superior State Well #1, located 1980' FNL and 660' FEL, Unit H, Section 8, Township 25 South, Range 30 East, N.M.P.M., Eddy County, New Mexico. Applicant intends to inject produced water into the Delaware Sand formation at depths of 3736-3776 feet (perforated). The well is located approximately 10 miles south east of Malaga, New Mexico.

RECEIVED OGD

2017 MAR 14 A 8:51P