STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: X Secondary Recovery _____ Pressure Maintenance _____ Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes X No

II. OPERATOR: APACHE CORPORATION

ADDRESS: 6120 S. Yale Ave., Suite 1500, Tulsa, OK 74136

CONTACT PARTY: KEVIN MAYES PHONE: 918-491-4972

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 X 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: KEVIN MAYES TITLE: SR. STAFF RESERVOIR ENGINEER

SIGNATURE: Kevin Mayes DATE: 2/26/08

E-MAIL ADDRESS: kevin.mayes@usa.apachecorp.com

* If the information required under Sections VI, VIII, X, and XI above has been pr
Please show the date and circumstances of the earlier submittal: _____

Oil Conservation Division
Case No. 32
Exhibit No. _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate I

Side 2

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, 1220 South St. Francis Dr., 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.

Side 1

CTION WELL DATA SHEET

Alphabetic order ✓ KM 9/25/01

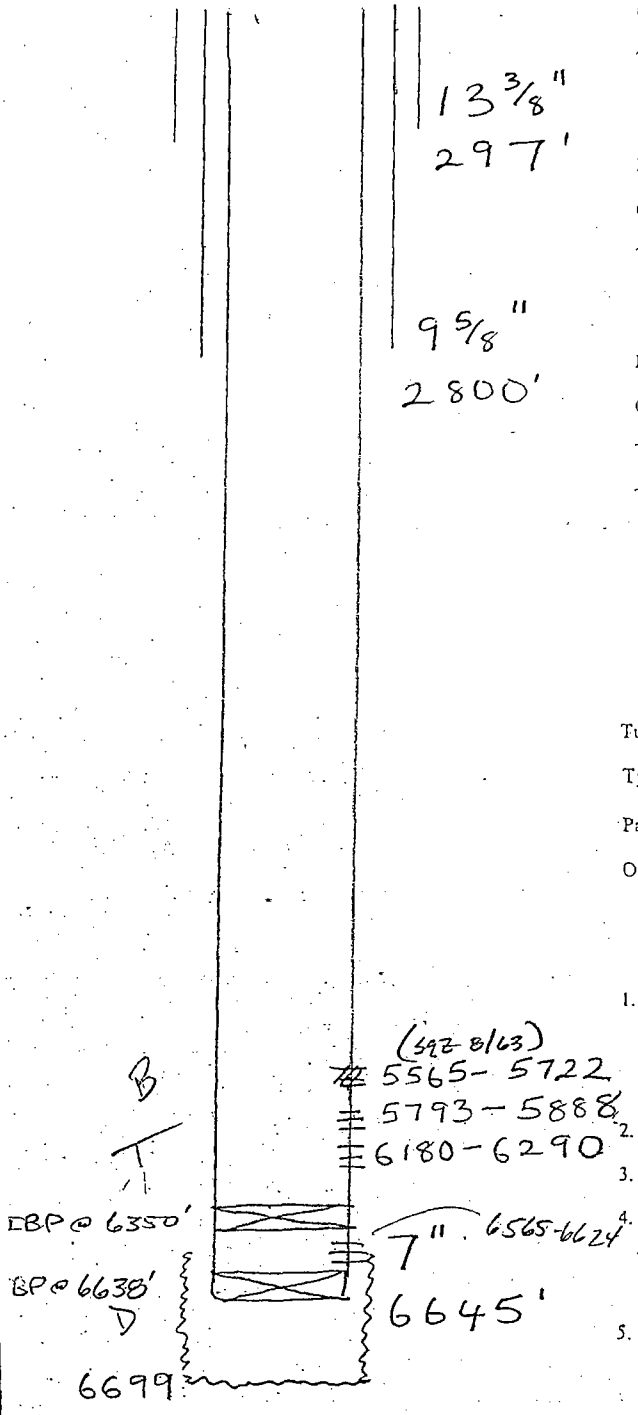
OPERATOR: APACHE CORPORATION

WELL NAME & NUMBER: HARRY LEONARD NCT E 4

WELL LOCATION: 660 FNL | 660 FEL | 16 | 21S | 37E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17 1/2 Casing Size: 13 3/8

Cemented with: 300 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc

Intermediate Casing

Hole Size: 12 1/4 Casing Size: 9 5/8

Cemented with: 1300 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc

Production Casing

Hole Size: 8 3/4 Casing Size: 7

Cemented with: 700 sx. or _____ ft³

Top of Cement: 79' Method Determined: Calc.

Total Depth: 6699

Injection Interval

5793 feet to 6690'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Lokset

Packer Setting Depth: 5500'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

   If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Blinebry and Drinkard

3. Name of Field or Pool (if applicable): Blinebry and Drinkard

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above - San Andres (4800')
   Below - Abo (7200')

3

Side 1

INJECTION WELL DATA SHEET

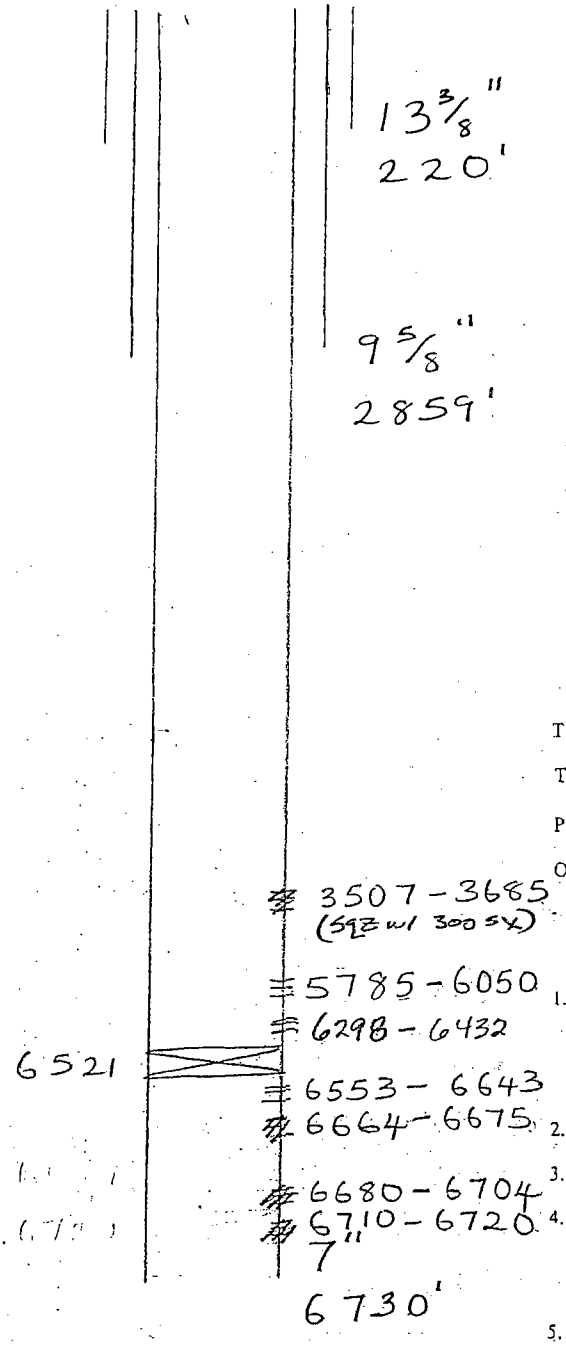
OPERATOR: APACHE CORPORATION

WELL NAME & NUMBER: HAWK A 02

WELL LOCATION: 1980 FNL 660 FEL 8 21S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

KM 9/23/11

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 15 Casing Size: 13 3/8

Cemented with: 250 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc

Intermediate Casing

Hole Size: 12 1/4 Casing Size: 9 5/8

Cemented with: 1000 sx. or _____ ft³

Top of Cement: 1190 Method Determined: Calc

Production Casing

Hole Size: 8 3/4 Casing Size: 7

Cemented with: 800 sx. or _____ ft³

Top of Cement: 2950 Method Determined: Calc

Total Depth: 6730

Injection Interval

5785 feet to 6643

(Perforated) or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Lokset

Packer Setting Depth: 5700'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

If no, for what purpose was the well originally drilled? Oil Production.

2. Name of the Injection Formation: Blinebry and Drinkard

3. Name of Field or Pool (if applicable): Blinebry and Drinkard

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above - San Andres (4800')
Below - Abo (7200')

4

Side 1

I CTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

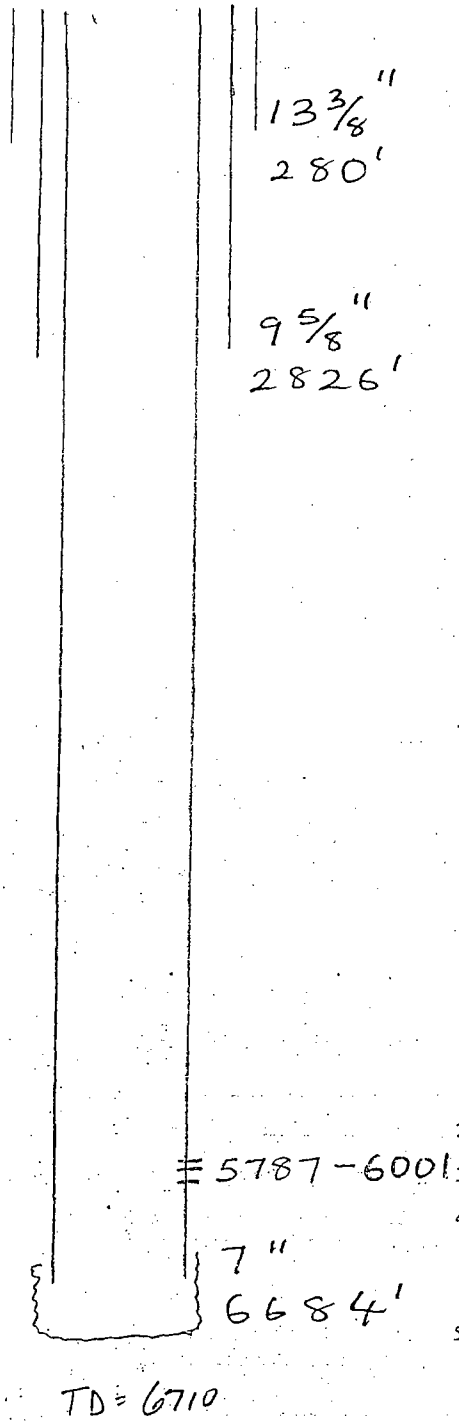
WELL NAME & NUMBER: HAWK A 03

WELL LOCATION: 1980 FNL 660 FWL 9 21S 37E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

✓ lkm 9/25/07

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17 1/2 Casing Size: 13 3/8

Cemented with: 201 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc

Intermediate Casing

Hole Size: 12 1/4 Casing Size: 9 5/8

Cemented with: 550 sx. or _____ ft³

Top of Cement: 350' Method Determined: Calc

Production Casing

Hole Size: 8 3/4 Casing Size: 7

Cemented with: 500 sx. or _____ ft³

Top of Cement: 3800 Method Determined: TS

Total Depth: 6710

Injection Interval

5787 feet to 6710

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Lokset

Packer Setting Depth: 5750'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

   If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Blinebry and Drinkard

3. Name of Field or Pool (if applicable): Blinebry and Drinkard

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above - San Andres (4800')

   Below - Abo (7200')

5

Side 1

CTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

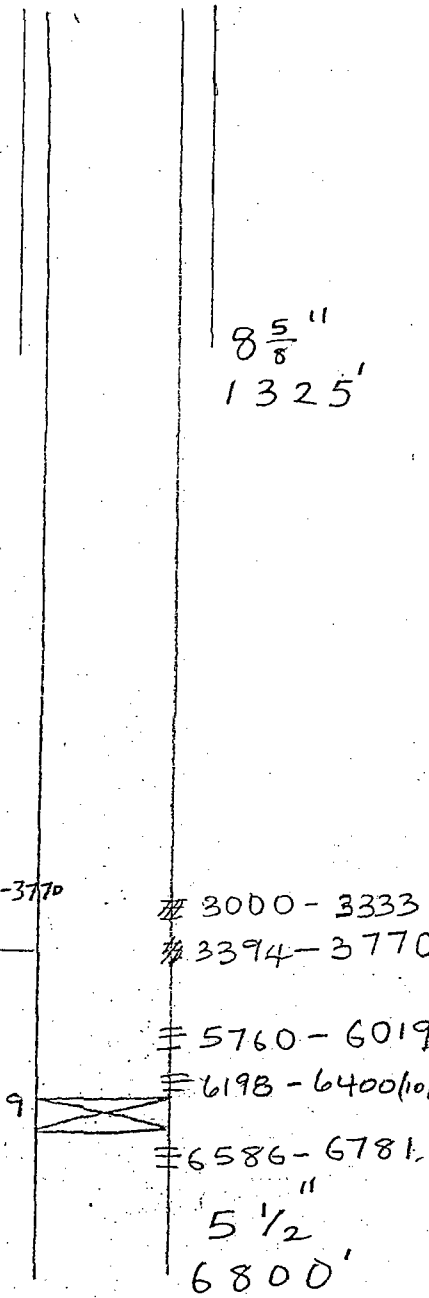
WELL NAME & NUMBER: HAWK A 05

WELL LOCATION: 660 FNL 660 FWL 9 21S 37E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

lm 9/25/07

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. or _____ ft³

Top of Cement: _____ Method Determined: _____

Intermediate Casing

Hole Size: 11 Casing Size: 8 5/8

Cemented with: 500 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc

Production Casing

Hole Size: 7 7/8 Casing Size: 5 1/2

Cemented with: 500 sx. or _____ ft³

Top of Cement: 1300 Method Determined: TS

Total Depth: 6800

Injection Interval

5760 feet to 6781'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Lokset

Packer Setting Depth: 5700'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

   If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Blinebry and Drinkard

3. Name of Field or Pool (if applicable): Blinebry and Drinkard

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above - San Andres (4800')

   Below - Abo (7200')

6

Side 1

CTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

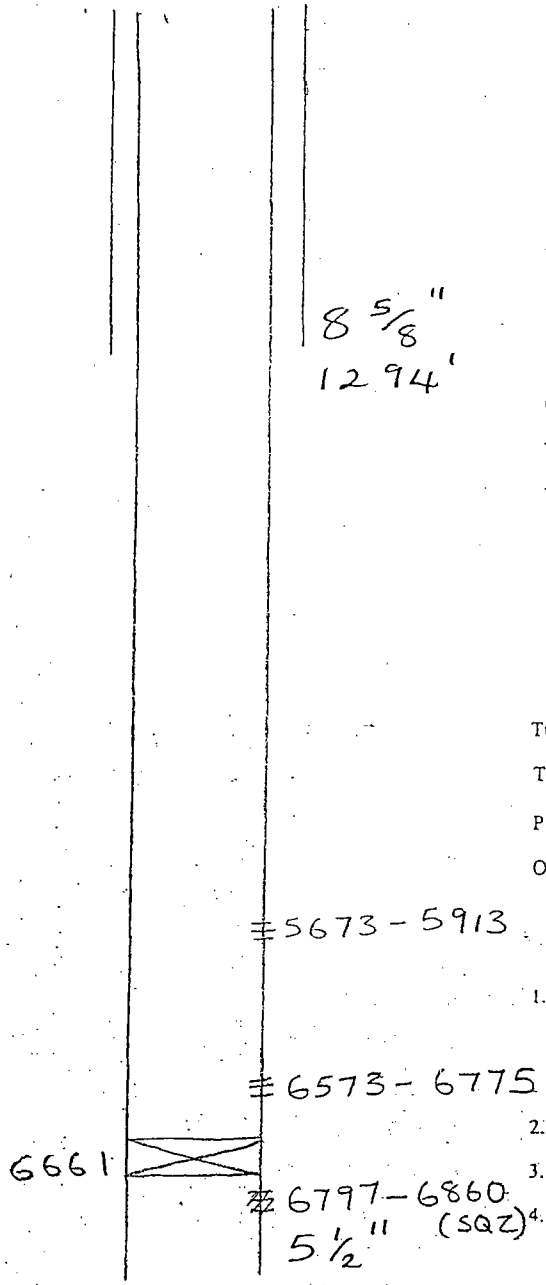
WELL NAME & NUMBER: HAWK A 08

WELL LOCATION: 990 FNL 660 FEL 8 21S 37E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

✓ KM 9/25/07

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. or _____ ft³

Top of Cement: _____ Method Determined: Calc

Intermediate Casing

Hole Size: 12 1/4 Casing Size: 8 5/8

Cemented with: 475 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc

Production Casing

Hole Size: 7 7/8 Casing Size: 5 1/2

Cemented with: 705 sx. or _____ ft³

Top of Cement: Surf Method Determined: calc

Total Depth: 6980

Injection Interval

5673' feet to 6775'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2-3/8 Lining Material: Plastic

Type of Packer: Baker Lokset

Packer Setting Depth: 5600'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

   If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Blinebry and Drinkard

3. Name of Field or Pool (if applicable): Blinebry and Drinkard

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above - San Andres (4800')

   Below - Abo (7200')

7

Side 1

CTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

WELL NAME & NUMBER: HAWK B-1 A/C 1 #01

WELL LOCATION: 1980 FNL 1980 FWL 9 21S 37E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

√ 1/yr 9/22/07

WELLBORE SCHEMATIC

13 3/8" 225'

9 5/8" 2790'

7" 6674'

≡5645-5837

≡6588-6650

≡6666-6674

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17 1/2 Casing Size: 13 3/8

Cemented with: 200 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc

Intermediate Casing

Hole Size: 12 1/4 Casing Size: 9 5/8

Cemented with: 500 sx. or _____ ft³

Top of Cement: 1628 Method Determined: Calc

Production Casing

Hole Size: 8 3/4 Casing Size: 7

Cemented with: 500 sx. or _____ ft³

Top of Cement: 3550 Method Determined: Calc

Total Depth: 6675

Injection Interval

5645 feet to 6674

(Perforated) or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Lokset

Packer Setting Depth: 5600

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

   If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Blinebry and Drinkard

3. Name of Field or Pool (if applicable): Blinebry and Drinkard

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above - San Andres (4800')

   Below - Abo (7200')

8

Side 1

:CTION WELL DATA SHEET

OPERATOR: Apache Corporation

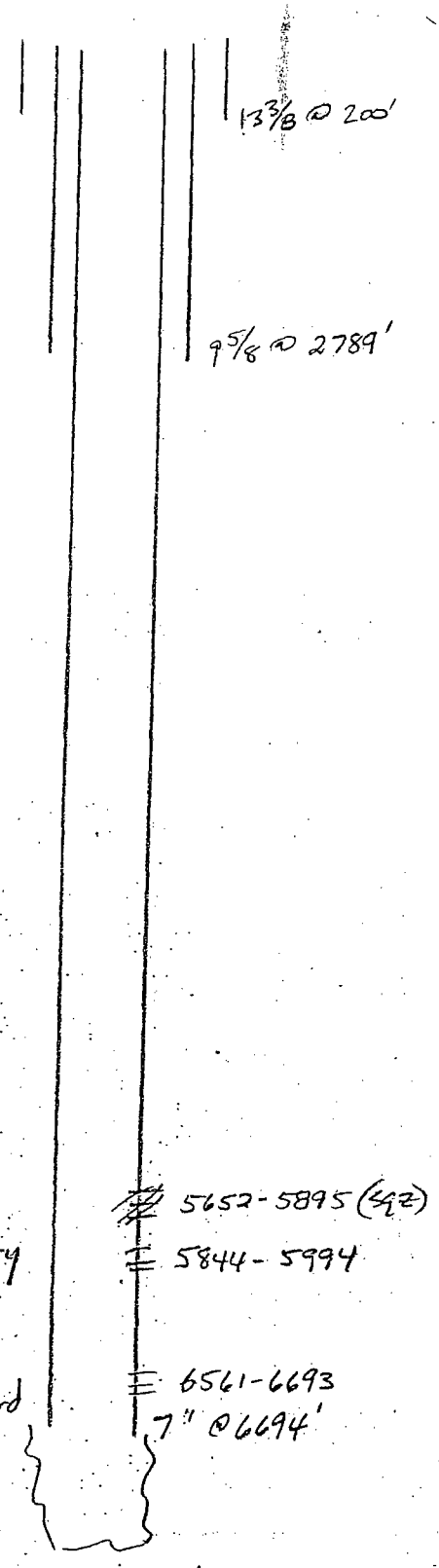
WELL NAME & NUMBER: Hawk B-1 #2

WELL LOCATION: 1980 FS 1980 FE | J | 9 | 21 S | 37 E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

KM 3/12/08

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17 1/2 Casing Size: 13 3/8

Cemented with: 200 sx. or _____ ft³

Top of Cement: Surf Method Determined: Circ

Intermediate Casing

Hole Size: 12 1/4 Casing Size: 9 5/8

Cemented with: 500 sx. or _____ ft³

Top of Cement: 1410' Method Determined: Calc.

Production Casing

Hole Size: 8 3/4 Casing Size: 7"

Cemented with: 500 sx. or _____ ft³

Top of Cement: 2942' Method Determined: Calc

Total Depth: 6735'

Injection Interval

5844' feet to 6735'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Lokset

Packer Setting Depth: 5750'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

   If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Blinebry and Drinkard

3. Name of Field or Pool (if applicable): _____

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

   Above - San Andres (4800')

   Below - Abo (7200')

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Side 1

INJECTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

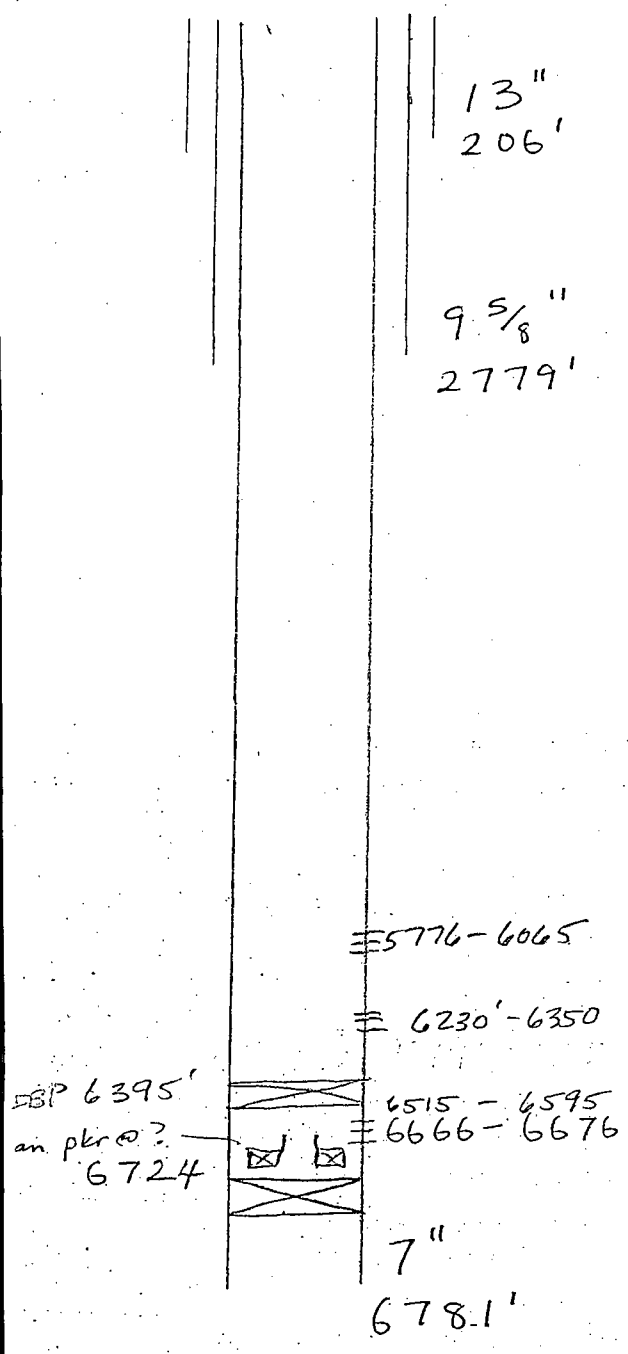
WELL NAME & NUMBER: HAWK B-1 #3

WELL LOCATION: 660 FNL 1980 FWL | 9 | 21S | 37E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

√ KM 9/25/07

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 15 1/2 Casing Size: 13

Cemented with: 200 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc

Intermediate Casing

Hole Size: 12 1/4 Casing Size: 9 5/8

Cemented with: 500 sx. or _____ ft³

Top of Cement: 1625 Method Determined: TS

Production Casing

Hole Size: 8 3/4 Casing Size: 7

Cemented with: 500 sx. or _____ ft³

Top of Cement: 3550 Method Determined: TS

Total Depth: 6782

Injection Interval

5776 feet to 6676

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Loksat

Packer Setting Depth: 5700

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

   If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Blinebry and Drinkard

3. Name of Field or Pool (if applicable): Blinebry and Drinkard

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above - San Andres (4800')
   Below - Abo (7200')

10

Side 1

INJECTION WELL DATA SHEET

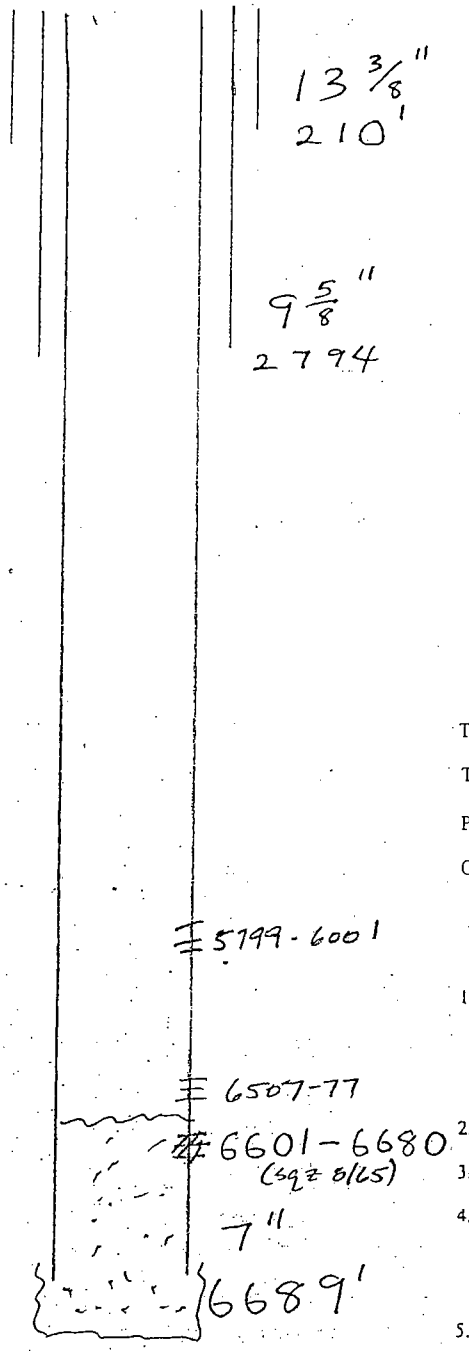
OPERATOR: APACHE CORPORATION

WELL NAME & NUMBER: HAWK B-1 04

WELL LOCATION: 1980 FSL 660 FWL 9 21S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

✓ KM 9/25/07

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17 1/2 Casing Size: 13 3/8

Cemented with: 200 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc

Intermediate Casing

Hole Size: 12 1/4 Casing Size: 9 5/8

Cemented with: 500 sx. or _____ ft³

Top of Cement: 1806 Method Determined: Calc

Production Casing

Hole Size: 8 3/4 Casing Size: 7

Cemented with: 750 sx. or _____ ft³

Top of Cement: 2679 Method Determined: Calc

Total Depth: 6690

Injection Interval

5799 feet to 6577

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Lokset

Packer Setting Depth: 5700

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

   If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Blinebry and Drinkard

3. Name of Field or Pool (if applicable): Blinebry and Drinkard

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above - San Andres (4800')
   Below - Abo (7200')

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Side 1

I CTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

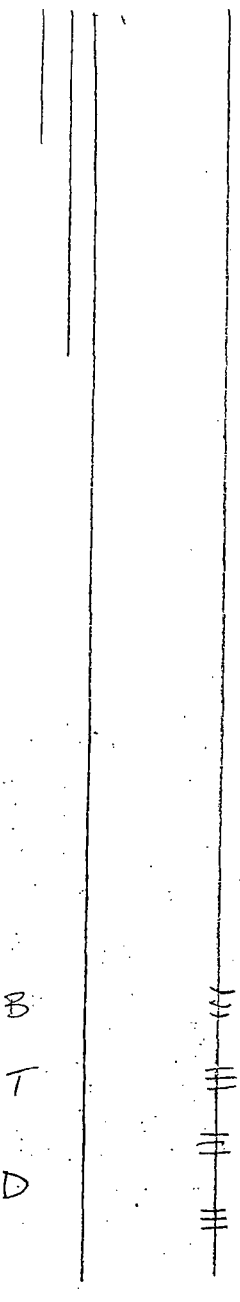
WELL NAME & NUMBER: HAWK B-1 05

WELL LOCATION: 1980 FSL 1980 FWL 9 21S 37E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

✓ VM 9/25/07

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17 1/2 Casing Size: 13 3/8

Cemented with: 200 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc.

Intermediate Casing

Hole Size: 12 1/4 Casing Size: 9 5/8

Cemented with: 500 sx. or _____ ft³

Top of Cement: 1650 Method Determined: TS

Production Casing

Hole Size: 8 3/4 Casing Size: 7

Cemented with: 940 sx. or _____ ft³

Top of Cement: 2675 Method Determined: TS

Total Depth: 6707

Injection Interval

5674 feet to 6706

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Lokset

Packer Setting Depth: 5600

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

   If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Blinebry and Drinkard

3. Name of Field or Pool (if applicable): Blinebry and Drinkard

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above - San Andres (4800')

   Below - Abo (7200')

12

Side 1

CTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

WELL NAME & NUMBER: HAWK B-1 #8

WELL LOCATION: 660 FSL 1980 FEL 9 21S 37E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

✓ VM 9/25/07

WELLBORE SCHEMATIC

13 3/8" 212'

9 5/8" 2794'

B { 5620 - 5806

5806 - 6042

D { 6523 - 6736

7" 6767'

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17 1/2 Casing Size: 13 3/8

Cemented with: 220 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc

Intermediate Casing

Hole Size: 12 1/4 Casing Size: 9 5/8

Cemented with: 500 sx. or _____ ft³

Top of Cement: 1950 Method Determined: Calc

Production Casing

Hole Size: 8 3/4 Casing Size: 7

Cemented with: 900 sx. or _____ ft³

Top of Cement: 2700 Method Determined: Calc

Total Depth: 6770

Injection Interval

5620 feet to 6736

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Lokset

Packer Setting Depth: 5550

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Blinebry and Drinkard

3. Name of Field or Pool (if applicable): Blinebry and Drinkard

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above - San Andres (4800')
Below - Abo (7200')

13

Side 1

CTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

WELL NAME & NUMBER: HAWK B-1 #9

WELL LOCATION: 660 FSL 660 FWL 9 21S 37E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

✓ VM 9/25/07

WELLBORE SCHEMATIC

13 3/8" 200'

9 5/8" 2824'

5636-6058

6156-6386

6506-6583

6618-6756

7" 6769' (SZ 150 SX)

B T D

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 15" Casing Size: 13 3/8

Cemented with: 250 sx. or _____ ft³

Top of Cement: Surf Method Determined: calc

Intermediate Casing

Hole Size: 12 1/4 Casing Size: 9 5/8

Cemented with: 500 sx. or _____ ft³

Top of Cement: 1210 Method Determined: TS

Production Casing

Hole Size: 8 3/4 Casing Size: 7

Cemented with: 750 sx. or _____ ft³

Top of Cement: 3011 Method Determined: TS

Total Depth: 6770

Injection Interval

5636 feet to 6756

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Lokset

Packer Setting Depth: 5600

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

   If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Blinebry and Drinkard

3. Name of Field or Pool (if applicable): Blinebry and Drinkard

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above - San Andres (4800')

   Below - Abo (7200')

14

Side 1

CTION WELL DATA SHEET

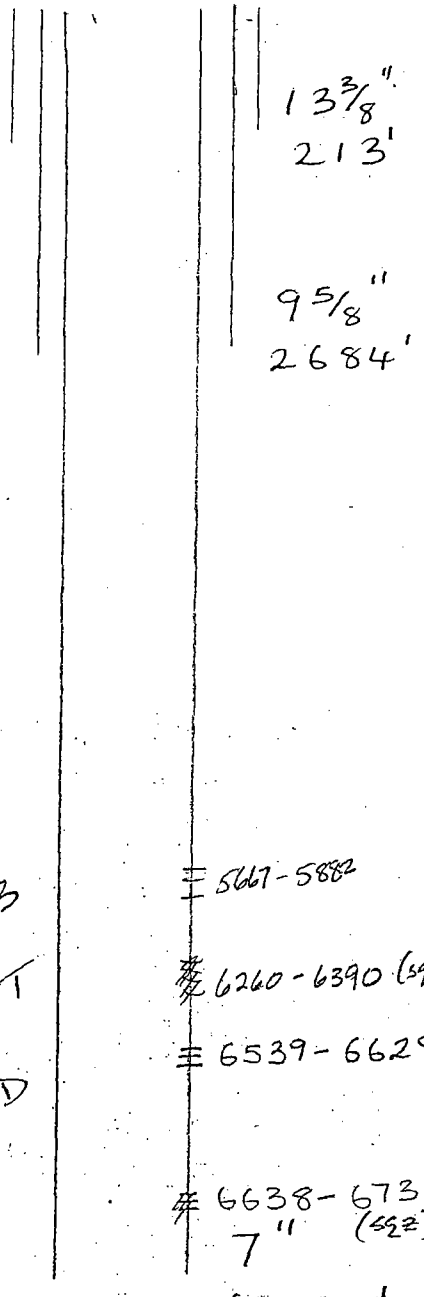
OPERATOR: APACHE CORPORATION

WELL NAME & NUMBER: HAWK B-1 11

WELL LOCATION: 1980 FSL 660 FEL 8 21S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

✓ VM 9/25/07

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17 1/2 Casing Size: 13 3/8

Cemented with: 250 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc

Intermediate Casing

Hole Size: 12 1/4 Casing Size: 9 5/8

Cemented with: 1750 sx. or _____ ft³

Top of Cement: 1300 Method Determined: Calc

Production Casing

Hole Size: 8 3/4 Casing Size: 7

Cemented with: 822 sx. or _____ ft³

Top of Cement: 2804 Method Determined: Calc

Total Depth: 6775

Injection Interval

5667 feet to 6629

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Lokset

Packer Setting Depth: 5600

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No
   If no, for what purpose was the well originally drilled? Oil Production
2. Name of the Injection Formation: Blinebry and Drinkard
3. Name of Field or Pool (if applicable): Blinebry and Drinkard
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. _____
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above – San Andres (4800')
   Below – Abo (7200')

15

Side 1

CTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

WELL NAME & NUMBER: HAWK B-1 13

WELL LOCATION: 1980 FSL 660 FEL 9 21S 37E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

✓ 1/m 9/25/07

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. or _____ ft³

Top of Cement: _____ Method Determined _____

Intermediate Casing

Hole Size: 12 1/4 Casing Size: 9 5/8

Cemented with: 400 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc.

Production Casing

Hole Size: 6 3/4 Casing Size: 5 1/2

Cemented with: 700 sx. or _____ ft³

Top of Cement: 2400 Method Determined: TS

Total Depth: 6780

Injection Interval

5781 feet to 6710

(Perforated or Open Hole; indicate which)

9 5/8" 1294'

B = 5781 - 6043

D = 6582 - 6710

5 1/2" 6780

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Lokset

Packer Setting Depth: 5700

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Blinebry and Drinkard

3. Name of Field or Pool (if applicable): Blinebry and Drinkard

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above - San Andres (4800')

Below - Abo (7200')

16

Side 1

ECTION WELL DATA SHEET

OPERATOR: Apache Corporation

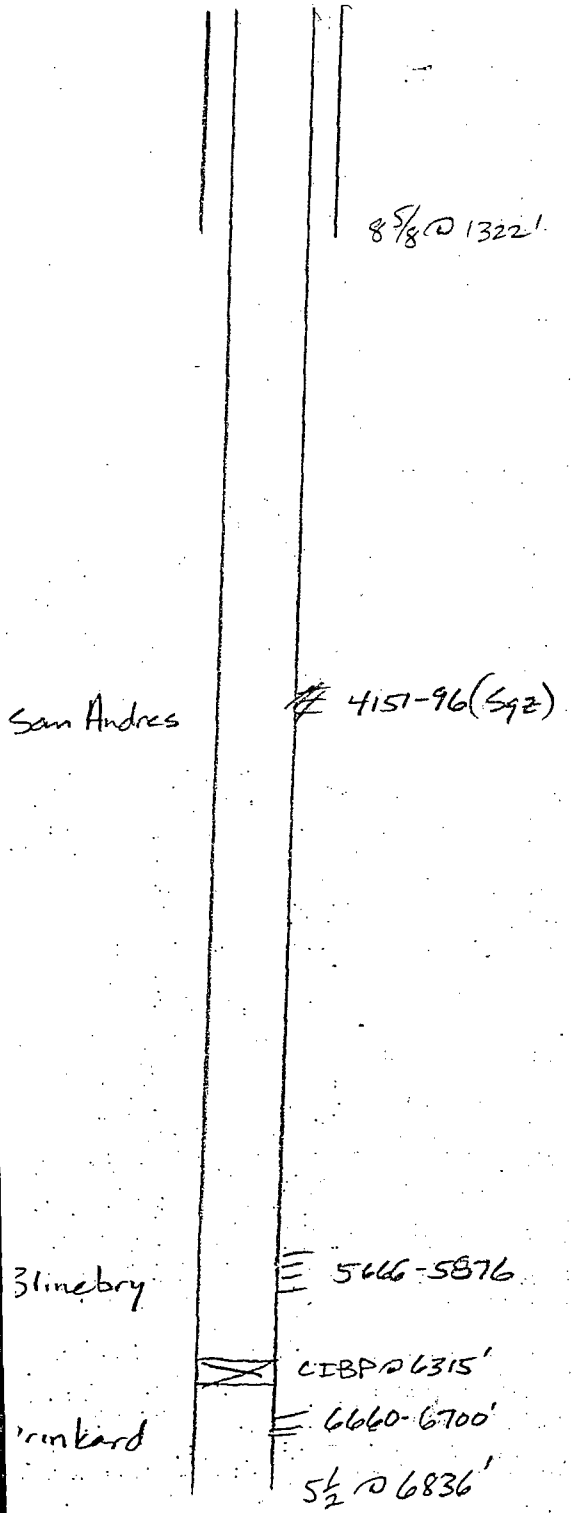
WELL NAME & NUMBER: Hawk B-1 #14

WELL LOCATION: 1980 FS 1980 FE | J | B | 21S | 37E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

KM 3/12/08

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12 1/4 Casing Size: 8 5/8

Cemented with: 650 sx. or _____ ft³

Top of Cement: Surf Method Determined: Circ.

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. or _____ ft³

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 7 7/8 Casing Size: 5 1/2

Cemented with: 625 sx. or _____ ft³

Top of Cement: 2767 Method Determined: Calc.

Total Depth: 6836

Injection Interval

5666 feet to 6700

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Locset

Packer Setting Depth: 5600

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

   If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Blinebry & Drinkard

3. Name of Field or Pool (if applicable): _____

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

   Above - San Andres (4800')

   Below - Abo (7200')

17

Side I,

I CTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

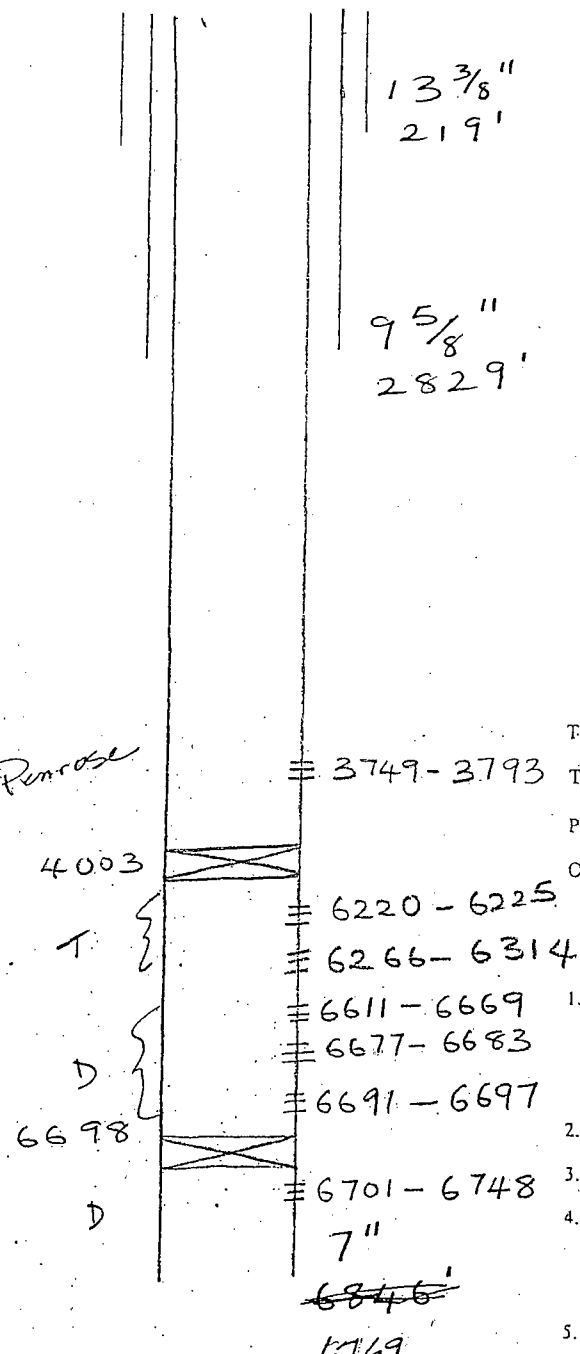
WELL NAME & NUMBER: LOCKHART A-17 #04

WELL LOCATION: 660 FNL 660 FEL 17 21S 37E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

✓ KM 9/25/07

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17 1/2 Casing Size: 13 3/8

Cemented with: 250 sx. or _____ ft³

Top of Cement: Surf Method Determined: calc

Intermediate Casing

Hole Size: 12 1/4 Casing Size: 9 5/8

Cemented with: 900 sx. or _____ ft³

Top of Cement: 675 Method Determined: TS

Production Casing

Hole Size: 8 3/4 Casing Size: 7

Cemented with: 650 sx. or _____ ft³

Top of Cement: 3325 Method Determined: TS

Total Depth: 6770

Injection Interval

5760 feet to 6697

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Lokset

Packer Setting Depth: 5600

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

   If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Blinebry and Drinkard

3. Name of Field or Pool (if applicable): Blinebry and Drinkard

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above - San Andres (4800')

   Below - Abo (7200')

18

Side 1

CTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

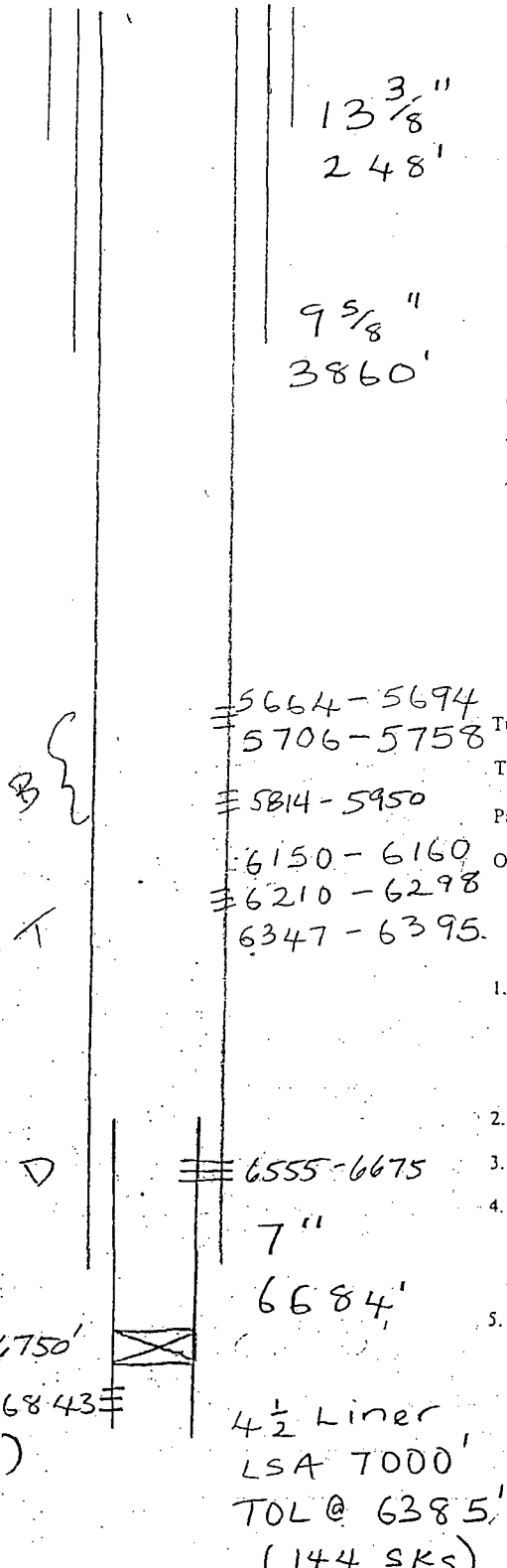
WELL NAME & NUMBER: SOUTHLAND ROYALTY 'A' 01

WELL LOCATION: 1980 FNL 1980 FEL 9 21S 37E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

✓ KM 9/25/07

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17 1/2 Casing Size: 13 3/8

Cemented with: 300 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc

Intermediate Casing

Hole Size: 12 1/4 Casing Size: 9 5/8

Cemented with: 1500 sx. or _____ ft³

Top of Cement: 2050 Method Determined: TS

Production Casing

Hole Size: 8 3/4 Casing Size: 7

Cemented with: 600 sx. or _____ ft³

Top of Cement: 5175 Method Determined: TS

Total Depth: 7565

Injection Interval

5664 feet to 6675

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Lok-set

Packer Setting Depth: 5600

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

   If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Blinebry and Drinkard

3. Name of Field or Pool (if applicable): Blinebry and Drinkard

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above - San Andres (4800')

   Below - Abo (7200')

19

Side 1 · 1 CTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

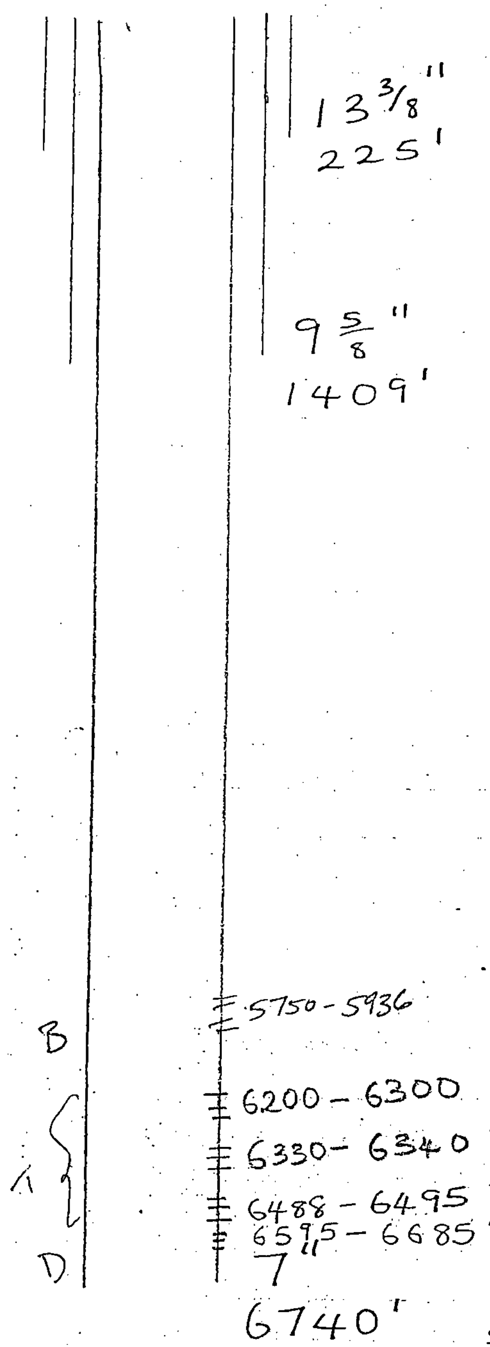
WELL NAME & NUMBER: SOUTHLAND ROYALTY A 02

WELL LOCATION: 660 FNL 1980 FEL 9 21S 37E

FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE
660 FNL 1980 FEL		9	21S	37E

√ 10m 9/25/07

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17 1/2 Casing Size: 13 3/8

Cemented with: 300 sx. *or* ______ ft³

Top of Cement: Surf Method Determined: Calc

Intermediate Casing

Hole Size: 12 1/4 Casing Size: 9 5/8

Cemented with: 700 sx. *or* ______ ft³

Top of Cement: Surf Method Determined: Calc

Production Casing

Hole Size: 8 3/4 Casing Size: 7

Cemented with: 3000 sx. *or* ______ ft³

Top of Cement: Surf Method Determined: Calc

Total Depth: 6750

Injection Interval

5750 feet to 6685

(Perforated or Open Hole; indicate which) — Perforated circled

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Lokset

Packer Setting Depth: 5700

Other Type of Tubing/Casing Seal (if applicable): ______

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

   If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Blinebry and Drinkard

3. Name of Field or Pool (if applicable): Blinebry and Drinkard

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. ______

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above - San Andres (4800')

   Below - Abo (7200')

Side 1

SECTION WELL DATA SHEET

OPERATOR: Apache Corporation

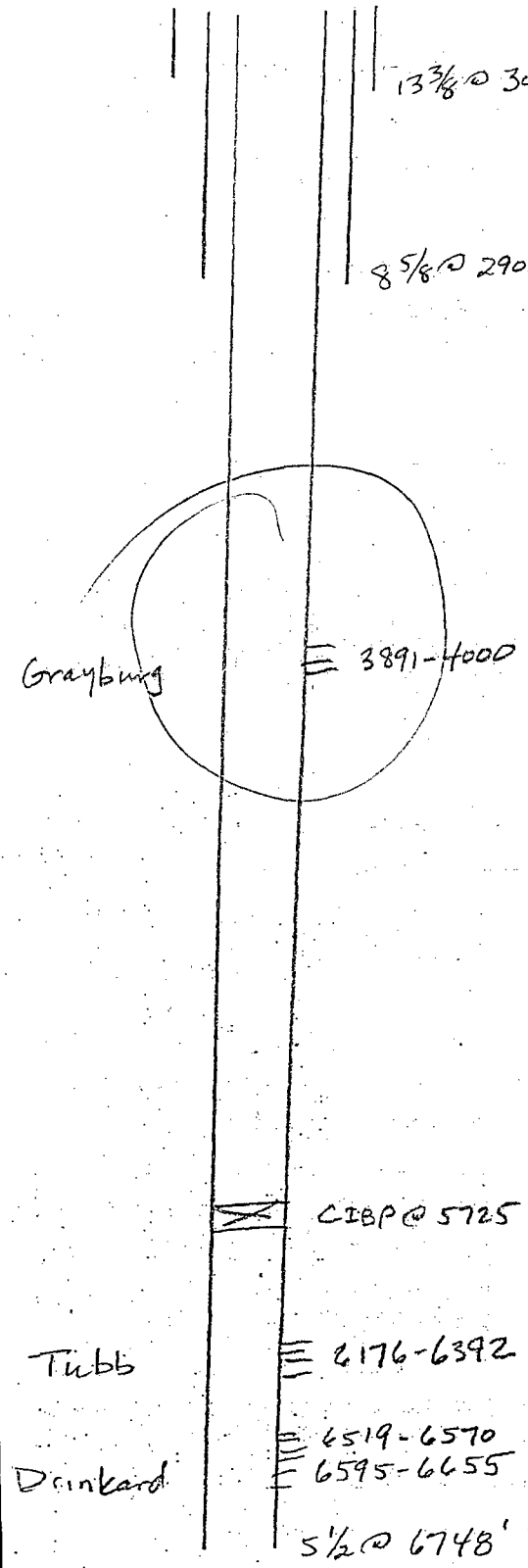
WELL NAME & NUMBER: Southland Royalty A #4

WELL LOCATION: 660 FS 660 FE | X | 4 | 21S | 37E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

lm 3/12/08

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17 1/2 Casing Size: 13 3/8

Cemented with: 300 sx. or _____ ft³

Top of Cement: Surf Method Determined: Circ.

Intermediate Casing

Hole Size: 11" Casing Size: 8 5/8

Cemented with: 475 sx. or _____ ft³

Top of Cement: 1750 Method Determined: Temp

Production Casing

Hole Size: 7 7/8 Casing Size: 5 1/2

Cemented with: 400 sx. or _____ ft³

Top of Cement: 4570' Method Determined: Temp

Total Depth: 6750'

Injection Interval

5777 feet to 6655

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Locset

Packer Setting Depth: 5700'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

   If no, for what purpose was the well originally drilled? D.I Production

2. Name of the Injection Formation: Blinebry & Drinkard

3. Name of Field or Pool (if applicable): _____

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.

   Grayburg will be sqzd during recomp to B&D.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

   Above - San Andres (4800')

   Below - Abo (7200')

2

Side I

INJECTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

WELL NAME & NUMBER: SOUTHLAND ROYALTY A 05

WELL LOCATION: 1980 FSL 660 FEL 4 21S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

✓ KM 9/25/97

WELLBORE SCHEMATIC

13 3/8" 312'

8 5/8" 2895'

5702-5970

6646-6652

5 1/2" 6755

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17 1/2 Casing Size: 13 3/8

Cemented with: 300 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc

Intermediate Casing

Hole Size: 11 Casing Size: 8 5/8

Cemented with: 300 sx. or _____ ft³

Top of Cement: 1365 Method Determined: TS

Production Casing

Hole Size: 7 7/8 Casing Size: 5 1/2

Cemented with: 180 sx. or _____ ft³

Top of Cement: 5425 Method Determined: TS

Total Depth: 6756

Injection Interval

5702 feet to 6652

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Lokset

Packer Setting Depth: _____

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No
   If no, for what purpose was the well originally drilled? Oil Production
2. Name of the Injection Formation: Blinebry and Drinkard
3. Name of Field or Pool (if applicable): Blinebry and Drinkard
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. _____
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above - San Andres (4800')
   Below - Abo (7200')

22

Side 1

CTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

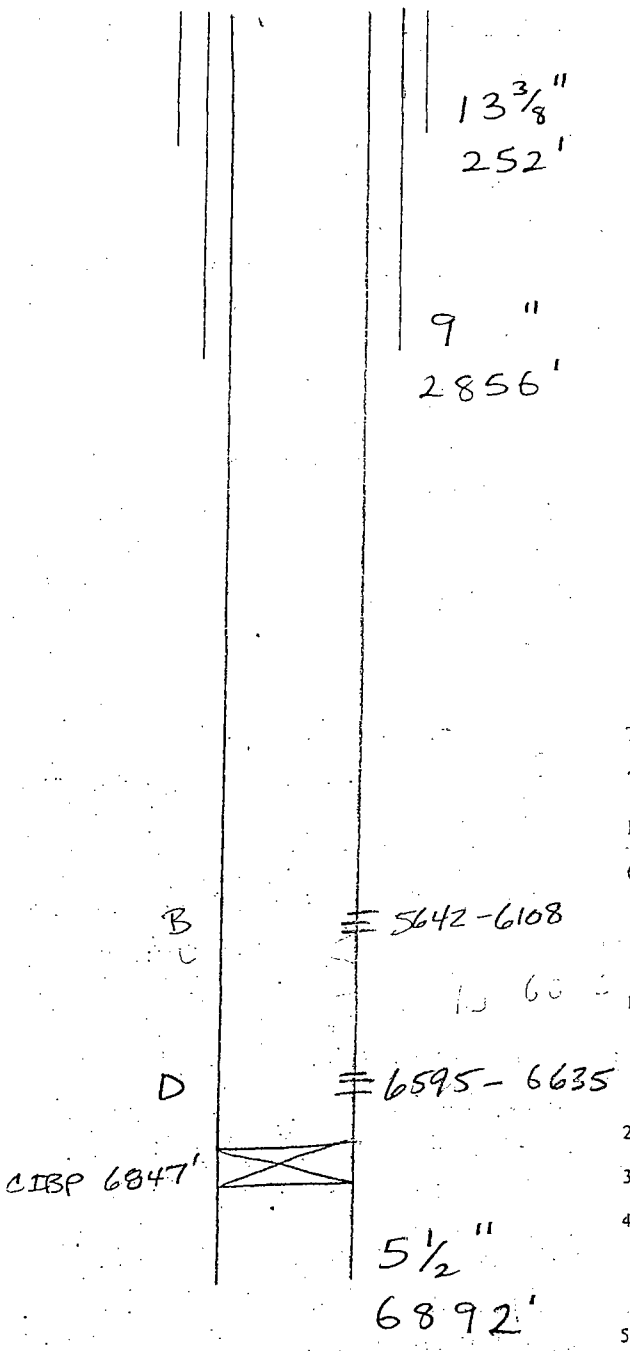
WELL NAME & NUMBER: SOUTHLAND ROYALTY A 6

WELL LOCATION: 1980 FNL 660 FEL 9 21S 37E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

✓ KM 9/25/07

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17 1/2 Casing Size: 13 3/8

Cemented with: 275 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc

Intermediate Casing

Hole Size: 12 1/4 Casing Size: 9

Cemented with: 1380 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc

Production Casing

Hole Size: 7 7/8 Casing Size: 5 1/2

Cemented with: 280 sx. or _____ ft³

Top of Cement: 5325. Method Determined: TS

Total Depth: 7200

Injection Interval

* 5642 feet to 6635

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Lokset

Packer Setting Depth: 5600

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

   If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Blinebry and Drinkard

3. Name of Field or Pool (if applicable): Blinebry and Drinkard

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above - San Andres (4800'), Below - Abo (7200')

23

Side 1

CTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

WELL NAME & NUMBER: SOUTHLAND ROYALTY A 07

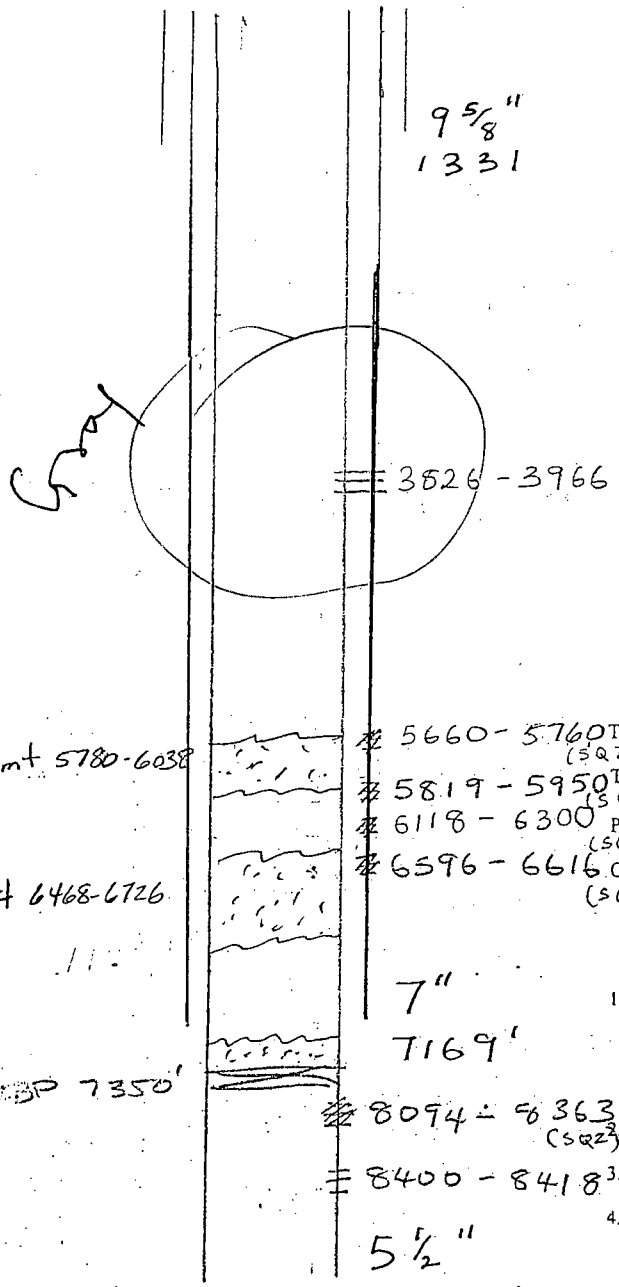
WELL LOCATION: 660 FNL 585 FEL 9 21S 37E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

✓ KM 9/25/07

will abandon Grayburg due to low prod rates.

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12 1/4 Casing Size: 9 5/8

Cemented with: 580 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc

Intermediate Casing

Hole Size: 8 3/4 Casing Size: 7

Cemented with: 1040 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc

Production Casing

Hole Size: 6 1/4 Casing Size: 5 1/2

Cemented with: 730 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc

Total Depth: 8482

Injection Interval

5660 feet to 6616

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Lokset

Packer Setting Depth: 5600

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

   If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Blinebry and Drinkard

3. Name of Field or Pool (if applicable): Blinebry and Drinkard

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above – San Andres (4800')
   Below – Abo (7200')

24

Side I

I. TION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

WELL NAME & NUMBER: SOUTHLAND ROYALTY A 08

WELL LOCATION: 660 FSL 1980 FEL 4 21S 37E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

✓ KM 9/25/07

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: N/A Casing Size: _____

Cemented with: _____ sx. or _____ ft³

Top of Cement: _____ Method Determined: _____

Intermediate Casing

Hole Size: 12 1/4 Casing Size: 9 5/8

Cemented with: 580 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc

Production Casing

Hole Size: 8 3/4 Casing Size: 7

Cemented with: 500 sx. or _____ ft³

Top of Cement: 2450 Method Determined: Calc

Total Depth: 6703

Injection Interval

5686 feet to 6649

(Perforated or Open Hole; indicate which)

9 5/8" 1347'

B
- 5686 - 5783
- 5837 - 5984

T
- 6229 - 6327

D
- 6617 - 6649

7" 6703'

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Lokset

Packer Setting Depth: 5600

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

   If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Blinebry and Drinkard

3. Name of Field or Pool (if applicable): Blinebry and Drinkard

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____

25

Side 1

CTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

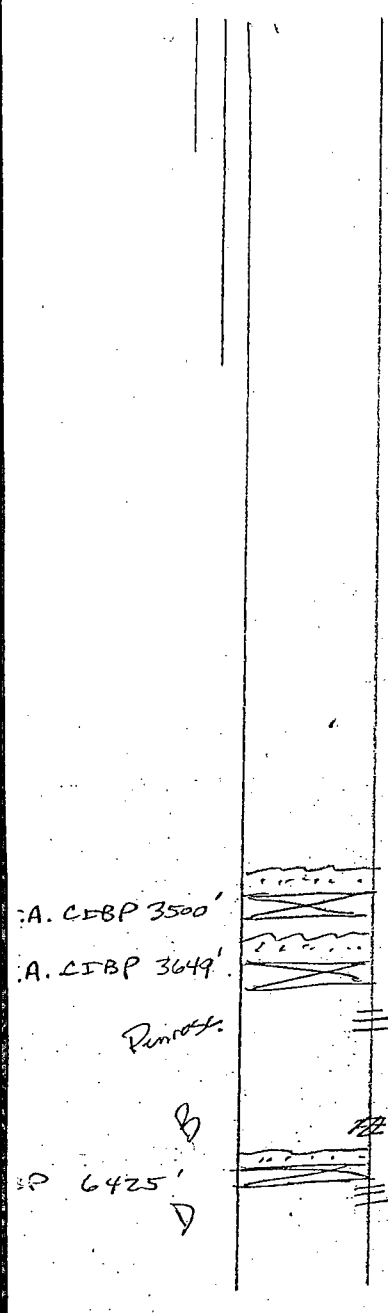
WELL NAME & NUMBER: STATE CTR 12 3

WELL LOCATION: 1980 FNL 660 FWL 16 21S 37E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

✓ KM 9/25/07

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17 1/2 Casing Size: 13 3/8

Cemented with: 300 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc

Intermediate Casing

Hole Size: 12 1/4 Casing Size: 9 5/8

Cemented with: 1500 sx. or _____ ft³

Top of Cement: 1560' Method Determined: Calc

Production Casing

Hole Size: 8 3/4 Casing Size: 7

Cemented with: 775 sx. or _____ ft³

Top of Cement: 1900 Method Determined: Calc

Total Depth: 6660

Injection Interval

5700 feet to 6658

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Lokset

Packer Setting Depth: 5600

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Blinebry and Drinkard

3. Name of Field or Pool (if applicable): Blinebry and Drinkard

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above - San Andres (4800')
Below - Abo (7200')

26

Side I

CTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

WELL NAME & NUMBER: STATE C TR 12 067

WELL LOCATION: 720 FNL | 1980 FWL | 16 | 21S | 37E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

✓ lm 9/25/01

WELLBORE SCHEMATIC

13 3/8" 297'

9 5/8" 2853'

7" 6694'

B 5602-5862

A 6185-6285

D 6578-6670

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17 1/2 Casing Size: 13 3/8

Cemented with: 300 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc

Intermediate Casing

Hole Size: 12 Casing Size: 9 5/8

Cemented with: 1500 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc.

Production Casing

Hole Size: 8 3/4 Casing Size: 7

Cemented with: 1000 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc

Total Depth: 6699

Injection Interval

5602 feet to 6670

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Lokset

Packer Setting Depth: 5550

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Blinebry and Drinkard

3. Name of Field or Pool (if applicable): Blinebry and Drinkard

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above - San Andres (4800')

Below - Abo (7200')

27

Side I

TION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

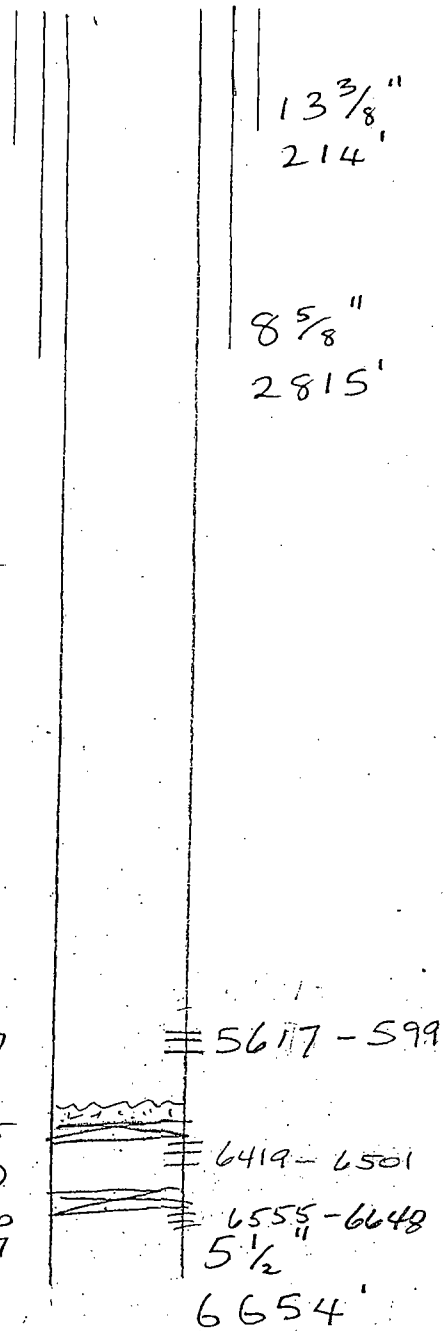
WELL NAME & NUMBER: STATE DA #2

WELL LOCATION: 1980 FSL 1980 FWL 16 21S 37E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

✓ KM 9/25/01

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17 1/2 Casing Size: 13 3/8

Cemented with: 200 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc.

Intermediate Casing

Hole Size: 12 1/4 Casing Size: 8 5/8

Cemented with: 1860 sx. or _____ ft³

Top of Cement: 1325 Method Determined: Calc

Production Casing

Hole Size: 6 3/4 Casing Size: 5 1/2

Cemented with: 500 sx. or _____ ft³

Top of Cement: 2850' Method Determined: Calc

Total Depth: 6654

Injection Interval

5617 feet to 6501

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Lokset

Packer Setting Depth: 5550

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? _____ Yes _____ No

   If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Blinebry and Drinkard

3. Name of Field or Pool (if applicable): Blinebry and Drinkard

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above - San Andres (4800')

   Below - Abo (7200')

28

Side 1

CTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

WELL NAME & NUMBER: STATE DA 04

WELL LOCATION: 1980 FSL 660 FEL 16 21S 37E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

✓ km 9/26/07

WELLBORE SCHEMATIC

13 3/8" 213'

8 5/8" 2807'

5 1/2" 6644'

B

T

D

≡5648 - 5925

≡6096 - 6266

≡6406 - 6641

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17 1/4 Casing Size: 13 3/8

Cemented with: 200 sx. or _____ ft³

Top of Cement: Surf Method Determined: Calc

Intermediate Casing

Hole Size: 11 Casing Size: 8 5/8

Cemented with: 1550 sx. or _____ ft³

Top of Cement: 1350 Method Determined: TS

Production Casing

Hole Size: 7 7/8 Casing Size: 5 1/2

Cemented with: 600 sx. or _____ ft³

Top of Cement: 13661 Method Determined: Calc

Total Depth: 6644

Injection Interval

5648 feet to 6641

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: Baker Lokset

Packer Setting Depth: 5600

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Blinebry and Drinkard

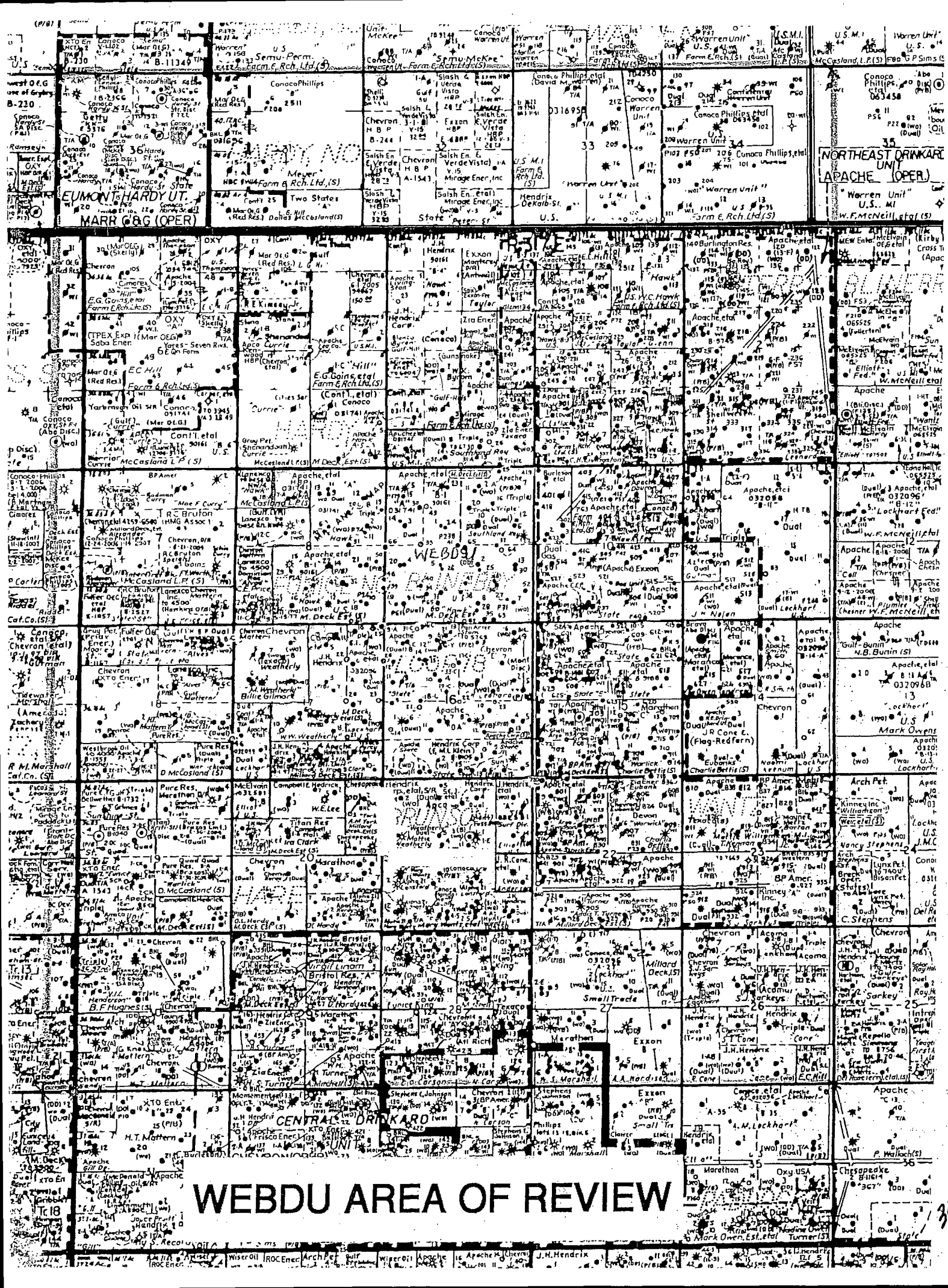
3. Name of Field or Pool (if applicable): Blinebry and Drinkard

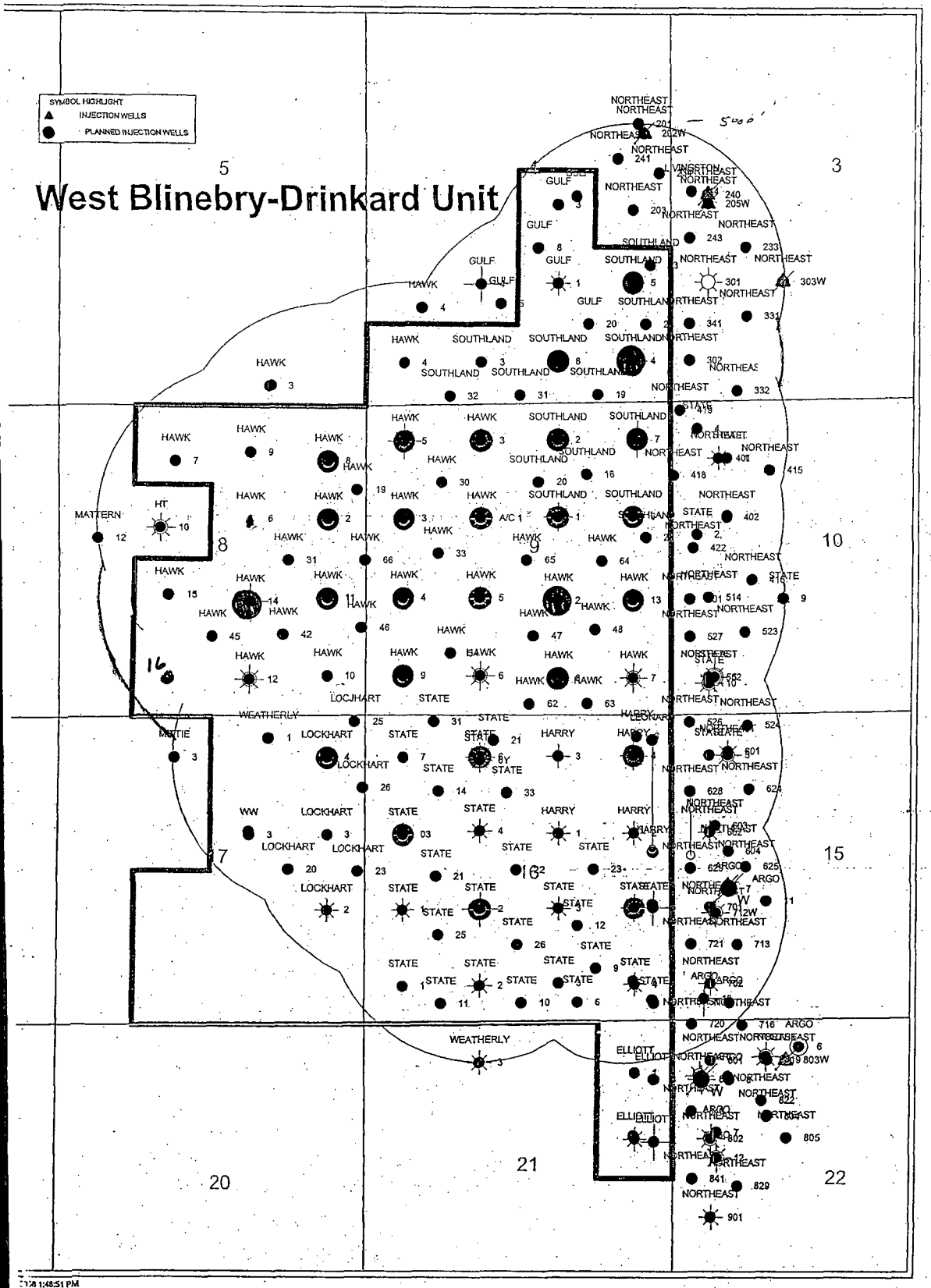
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above - San Andres (4805')

Below - Abo (9200')

29


WEBDU AREA OF REVIEW


SYMBOL HIGHLIGHT
INJECTION WELLS
PLANNED INJECTION WELLS
West Blinebry-Drinkard Unit
5
3
8
9
10
7
15
16
20
21
22
MATTERN
WEATHERLY
ELLIOTT
LOCKHART
STATE
HAWK
SOUTHLAND
GULF
NORTHEAST
HARRY
ARGO

Inj Wells in Unit

OPERATOR	LEASE NAME	INJ WELL #	LOCATION	FOOTAGE	TYPE	API	SPUD DATE	TD	CONSTRUCTION	TOP OF CEMENT	COMPLETIONS & COMMENTS
Apache Corporation	Harry Leonard NCT E	4	16 21S 37E	660 FNL, 660 FEL	OIL	30025066230002	09/20/48	6699	13 3/8 @ 297' CMT W/ 300 SX, 9 5/8 @ 2800' CMT W/ 1300 SX, 7 @ 6645' CMT W/ 700 SX	76	12/48 6645 - 6699 (Openhole)
											03/54 add 5565 - 5722 & 6180-6290
Apache Corporation	Hawk A (orig A-8 #1)	2	8 21S 37E	1980 FNL, 660 FEL	OIL	30025064320001	03/18/50	6730	13 3/8 @ 220' CMT W/ 220 SX, 9 5/8 @ 2859' CMT W/ 1000 SX, 7 @ 6730' CMT W/ 800 SX		08/63 5793 - 5888 & frac
										2950	05/50 6684 - 6720
											01/62 3507 - 3685
Apache Corporation	Hawk A (orig A-9 #1)	3	9 21S 37E	1980 FNL, 660 FWL	OIL	30025064400001	02/11/48	6710	13 3/8 @ 280' CMT W/ 200 SX, 9 5/8 @ 2826' CMT W/ 550 SX, 7 @ 6684' CMT W/ 500 SX		10/65 sqz 3507-3685 W/ 300 sx, add 5785 - 6050 & 6553-6643
											04/98 cibp @ 6521
Apache Corporation	Hawk A	5	9 21S 37E	660 FNL, 660 FWL	OIL	30025212250001	04/12/65	6800	8 5/8 @ 1325' CMT W/ 500 SX, 5 1/2 @ 6800' CMT W/ 500 SX	3800	03/48 6684 - 6710 (Openhole)
											10/64 5787 - 6001 & frac
										1300	07/65 5760 - 6019 & 6586-6781
Apache Corporation	Hawk A	8	8 21S 37E	990 FNL, 660 FEL	OIL	30025269870000	10/02/80	6980	8 5/8 @ 1294' CMT W/ 475 SX, 5 1/2 @ 6980' CMT W/ 705 SX		08/93 cibp @ 5692 & 6508, 3000 - 3333, 3384 - 3770
											10/07 sqz 3000-3770, c/o to 6501, 5760-6400
Apache Corporation	Hawk B 1	2	9 21S 37E	1980 FSL, 1980 FEL	OIL	30025064380000	12/2/1947	6735	13 3/8 @ 200' CMT W/ 200 SX, 9 5/8 @ 2789' CMT W / 500 SX, 7 @ 6694' CMT W/ 500 SX	Surface	01/81 Tst & sqz 6787-6860, perf 6573 - 6775
											04/81 cibp @ 6005, 5673 - 5913 & frac
										2942	01/48 6681 - 6693
											05/55 5652 - 5693, 6594 - 6670
											12/83 5844 - 5994, 5652 - 5693 SQZ
Apache Corporation	Hawk B-1	3	9 21S 37E	660 FNL, 1980 FWL	OIL	30025099090001	02/16/48	6782	13 3/8 @ 206' CMT W/ 200 SX, 9 5/8 @ 2779' CMT W/ 500 SX, 7 @ 6781' CMT W/ 500 SX		01/64 6581 - 6735 & frac
											05/81 BP @ 6702, 5844 - 6702
										3550	05/48 cibp @ 6724, 6666 - 6676 & 6230-6350
Apache Corporation	Hawk B-1	4	9 21S 37E	1980 FSL, 660 FWL	OIL	30025099100000	03/26/48	6690	13 3/8 @ 210' CMT W/ 200 SX, 9 5/8 @ 2794' CMT W/ 500 SX, 7 @ 6689' CMT W/ 750 SX		5-64 add 6515-6595
											07/64 5776 - 6085
Apache Corporation	Hawk B-1	5	9 21S 37E	1980 FSL, 1980 FWL	OIL	30025099080003	05/14/48	6707	13 3/8 @ 226' CMT W/ 200 SX, 9 5/8 @2790' CMT W/ 500 SX, 7 @ 6706' CMT W/ 940 SX	2679	05/48 6601 - 6680
											8/65 deepen, sqz, add 6507-77 & 5799-6001
										2675	08/48 6696 - 6706
Apache Corporation	Hawk B-1	8	9 21S 37E	660 FSL, 1980 FEL	OIL	30025099060002	12/04/48	6770	13 3/8 @ 212' CMT W/ 220 SX, 9 5/8 @ 2794' CMT W/ 500 SX, 7 @ 6767' CMT W/ 900 SX		07/55 6588 - 6708
											03/01 5874 - 6706
										2700	01/49 6588 - 6736
Apache Corporation	Hawk B-1	9	9 21S 37E	660 FSL, 660 FWL	OIL	30025064410002	02/14/49	6770	13 3/8 @ 200' CMT W/ 250 SX, 9 5/8 @ 2824' CMT W/ 500 SX, 7 @ 6769' CMT W/ 750 SX		04/64 5806 - 6042 & 6523-6552
											12/99 add 5620-5806
										3011	04/49 6616 - 6756 (SQZ with 150 SX)
											12/65 5800 - 6058 & frac
Apache Corporation	Hawk B-1 (orig B-8 #2)	11	8 21S 37E	1980 FSL, 660 FEL	OIL	30025064340001	02/09/50	6775	13 3/8 @ 213' CMT W/ 250 SX, 9 5/8 @ 2884' CMT W/ 1750 SX, 7 @ 6774' CMT W/ 822 SX		6506 - 6583
											05/01 5936 - 6583 & frac
										2804	04/50 6638 - 6738
											1/59 6260-6390
											03/65 sqz all perfs, comp 6530 - 6626
Apache Corporation	Hawk B-1	13	9 21S 37E	1980 FSL, 660 FEL	OIL	30025201780002	04/13/63	6780	9 5/8 @ 1294' CMT W/ 400 SX, 5 1/2 @ 6780' CMT W/ 700 SX		1/80 add 5967-5982
											9/97 add 6539-6629
Apache Corporation	HAWK "B-1"	14	8 21S 37E	1980 FSL 1980 FEL CO	OIL-W	30025228590001	11/25/1968	6836	8 5/8 @ 1322' cmt w/ 650 sx, 5 1/2 @ 6836 cmt w/ 625 sx	2400	05/63 5781 - 6043 & frac
											6582 - 6710 & frac
Apache Corporation	Hawk B-1 A/C 1	1	9 21S 37E	1980FNL, 1980 FWL	OIL	30025064370001	10/07/41	6675	13 3/8 @ 225' CMT W/ 200 SX, 9 5/8 @ 2790' CMT W/ 500 SX, 7 @ 6674' CMT W/ 500 SX	Surface	12/88 6660-6700
											6/79 sqz 4151-96, 5868-5876
										3550	11/47 6668 - 6674
											09/55 5045 - 5837
Apache Corporation	Lockhart A-17	4	17 21S 37E	660 FNL, 660 FEL	OIL	30025066390002	08/28/82	6770	13 3/8 @ 219' CMT W/ 250 SX, 9 5/8 @ 2829' CMT W/ 900 SX, 7 @ 6769' CMT W/ 650 SX		6586 - 6650
										3325	12/49 cibp @ 6698, 6611 - 6697
Apache Corporation	Southland Royalty A	1	9 21S 37E	1980 FNL, 1980 FEL	OIL	30025064420000	07/07/47	7585	13 3/8 @ 248' CMT W/ 300 SX, 9 5/8 @ 3860' CMT W/ 1500 SX, 7 @ 6684' CMT W/ 600 SX, 4 1/2 @ 6385' - 7000' W/ 1		03/59 6220 - 6314 & frac
											09/82 cibp @ 4003, 3749 - 3793
										5175	09/47 6555 - 6675
											04/62 5814 - 5950 & frac
											12/72 5664 - 5758
Apache Corporation	Southland Royalty A	2	9 21S 37E	660 FNL, 1980 FEL	OIL	30025064430000	01/01/54	6750	13 3/8 @ 225' CMT W/ 300 SX, 9 5/8 @ 1409' CMT W/ 700 SX, 7 @ 6740' CMT W/ 3000 SX		01/82 run liner & 6822 - 6843
											11/84 5640 - 6660 & frac
										Surface	11/47 6595 - 6685
Apache Corp	Southland Royalty	4	4 21S 37E	660 FSL 660 FEL		30025063960	10/12/1951	6750	13 3/8 @ 305' CMT W/ 300 sx, 8 5/8 @ 2905 cmt w/ 375 sx 5 1/2 @ 6748 cmt w/ 400 sx		03/54 6200 - 6465
											10/84 5750-5936
										2735	11/51 6595-6655
											4/54 6176-6392
											6/63 6519-6570
											12/00 3891-4000
Apache Corporation	Southland Royalty A	5	4 21S 37E	1980 FSL, 660 FEL	OIL	30025063970000	04/01/54	6758	13 3/8 @ 312' CMT W/ 300 SX, 8 5/8 @ 2895' CMT W/ 300 SX, 5 1/2 @ 6755' CMT W/ 180 SX	5425	11/52 6640 - 6652
Apache Corporation	Southland Royalty A	6	9 21S 37E	1980 FNL, 660 FEL	OIL	30025064440000	05/23/53	7200	13 3/8 @ 252' CMT W/ 275 SX, 9 @ 2856' CMT W/ 1380 SX, 5 1/2 @ 6892' CMT W/ 280 SX		04/54 5702 - 5970
Apache Corporation	Southland Royalty A	7	9 21S 37E	660 FNL, 585 FEL	OIL	30025064450000	05/08/62	8482	9 5/8 @ 1331' CMT W/ 580 SX, 7 @ 7169' CMT W/ 1040 SX, 5 1/2 @ 8482' CMT W/ 730 SX	5325	08/53 5642 - 6108
											cibp @ 6847, 6595 - 6635
										Surface	08/62 5819 - 5950 & 6596-6616
											3/72 5660-5760
											03/85 6118-6300
											04/88 sqz all perfs, run 5-1/2, lst 8400-18 & 8094-8363
											12/94 P&A , cibp @ 7350, etc
Apache Corporation	Southland Royalty A	8	4 21S 37E	660 FSL, 1980 FEL	OIL	30025200690000	12/01/62	6703	9 5/8 @ 1347' CMT W/ 580 SX, 7 @ 6703' CMT W/ 500 SX		12/00 re-enter & comp 3826 - 3968
Apache Corporation	State C TR 12 (orig St C Tr 12 #1)	3	16 21S 37E	1980 FNL, 660 FWL	OIL	30025066250003	07/19/47	6660	13 3/8 @ 322' CMT W/ 300 SX, 9 5/8 @ 2900' CMT W/ 1500 SX, 7 @ 6660' CMT W/ 775 SX	2450	05/63 5837-5984, 6228-6327, 6617-6649 & frac
											2/73 add 5686-5783
										1900	09/47 6615 - 6658
											07/67 5835 - 5975 & frac
											07/72 3721 - 3774 & frac
											6/75 sqz 5835-5975 w/ 150 sx, add 6476-6598
Apache Corporation	State C TR 12	08Y	16 21S 37E	720 FNL, 1980 FWL	OIL	30025066280002	05/06/48	6699	13 3/8 @ 297' CMT W/ 300 SX, 9 5/8 @ 2853' CMT W/ 1500 SX, 7 @ 6694' CMT W/ 1000 SX		2/77 CIBP 6425
										Surface	07/48 6578 - 6670
											03/54 6185 - 6285
Apache Corporation	State DA	2	16 21S 37E	1980 FSL, 1980 FWL	OIL	30025066160001	01/01/62	6854	13 3/8 @ 214' CMT W/ 200 SX, 8 5/8 @ 2815' CMT W/ 1860 SX, 5 1/2 @ 6854' CMT W/ 500 SX		03/99 5602 - 6870 & frac, 6185 - 6285 & 6578 - 6870 (frac)
										2850	06/47 6600 - 6623
											03/62 5794 - 5924 & frac
Apache Corporation	State DA	4	16 21S 37E	1980 FSL, 660 FEL	OIL	30025066190003	10/19/06	6844	13 3/8 @ 213' CMT W/ 200 SX, 8 5/8 @2807' CMT W/ 1550 SX, 5 1/2 @ 6644' CMT W/ 600 SX		6586 - 6848 & frac
										1366	09/47 6528 - 6641
											10/53 5648 - 5718
											05/99 5648 - 6501
											11/06 6098 - 6286

Prod Wells in Unit

OPERATOR NAME	LEA NAME	WELL NUM	LOCATION	FOOTAGE	TYPE	API	SPUD DATE	TD	CONSTRUCTION	TOP OF CEMENT	COMPLETIONS & COMMENTS
Apache Corporation	State Land 15	3	16 21S 37E	660 FSL, 1980 FEL	OIL	30025066320003	01/23/06	6660	13 3/8 @ 215' CMT W/ 350 SX, 8 5/8 @ 2878' CMT W/ 1600 SX, 5 1/2 @ 6659' CMT W/ 500 SX	4425	08/47 6540 - 6635
											08/54 5600 - 5700
											11/58 5575 - 5750 & frac
											05/06 6128 - 6270
Apache Corporation	Gulf Hill	3	4 21S 37E	3300 FSL, 1980 FEL	OIL	30025064030000	4/7/1980	6010	12 3/4 @ 114' CMT W/ 175 SX, 8 5/8 @ 2924' CMT W / 2300 SX, 5 1/2 @ 5900' CMT W/ 700 SX		5124 - 5237 SQZ
Apache Corporation	Gulf Hill	7	4 21S 37E	3480 FSL, 1650 FEL	OIL	30025368110000	1/10/2005	6900	8 5/8 @ 1254' CMT W / 691 SX, 5 1/2 @ 6900' CMT W / 1050 SX	Surface	04/58 5740 - 5838
Apache Corporation	Gulf Hill	20	4 21S 37E	1330 FSL, 1440 FEL	OIL	30025382290000	2/8/2007	6975	8 5/8 @ 1222' CMT W / 600 SX, 5 1/2 @ 6975' CMT W / 1200 SX	160	04/05 5690 - 6710 & frac
Chevron USA	Harry Leonard NCT E	2	16 21S 37E	1980 FNL, 660 FEL	OIL	30025066210000	11/24/1947	6614	13 3/8 @ 301' CMT W/ 300 SX, 9 5/8 @ 2932' CMT W / 1300 SX, 7 @ 6547' CMT W/ 700 SX	153	03/07 5656 - 6788 & frac
Apache Corporation	Hawk A	4	4 21S 37E	660 FSL, 660 FWL	OIL	30025063890000	10/9/1962	6778	8 5/8 @ 1265' CMT W / 600 SX, 5 1/2 @ 6778' CMT W / 700 SX	Surface	01/48 6547 - 6614 (Openhole)
											01/62 5827 - 5954
Apache Corporation	Hawk A	6	8 21S 37E	1980 FNL, 1980 FEL	OIL	30025216210001	02/07/66	6819	8 5/8 @ 1330' CMT W/ 600 SX, 5 1/2 @ 6819' CMT W/ 640 SX	Surface	12/62 5828 - 6680
											11/82 5691 - 6680, 5691 - 5751 (frac)
										3125	03/66 6878 - 6724
Apache Corporation	Hawk A	7	8 21S 37E	990 FNL, 1980 FWL	OIL	30025262850000	8/27/1979	6880	8 5/8 @ 1335' CMT W / 872 SX, 5 1/2 @ 6858' CMT W / 1760 SX		06/81 6574 - 6724, 6541 - 6618
											12/82 add 5678-5924
Apache Corporation	Hawk A	9	8 21S 37E	840 FNL, 1980 FEL	OIL	30025275990000	12/15/1981	6950	8 5/8 @ 1374' CMT W / 866 SX, 5 1/2 @ 6950' CMT W / 1575 SX	Surface	10/79 6612 - 6828 & frac
											02/81 BP @ 6197, 5695 - 6039 & frac
										Surface	04/82 6625 - 6795
Apache Corporation	Hawk A	18	8 21S 37E	1420 FNL, 150 FEL	OIL	30025363390000	8/20/2003	6950	8 5/8 @ 1336' CMT W / 700 SX, 5 1/2 @ 6950' CMT W / 1380 SX		09/82 5738 - 5926 & frac
Apache Corporation	Hawk A	30	9 21S 37E	1310 FNL, 1310 FWL	OIL	30025381940000	1/18/2007	6965	8 5/8 @ 1267' CMT W / 600 SX, 5 1/2 @ 6965' CMT W / 1600 SX		11/83 5738 - 5795
Apache Corporation	Hawk A	31	8 21S 37E	2630 FNL, 1330 FEL	OIL	30025381950000	3/17/2007	7005	8 5/8 @ 1307' CMT W / 575 SX, 5 1/2 @ 7005' CMT W / 1250 SX	Surface	09/03 5675 - 6735 & frac
Apache Corporation	Hawk A	33	9 21S 37E	2528 FNL, 1250 FWL	OIL	30025381960000	3/27/2007	6945	8 5/8 @ 1315' CMT W / 575 SX, 5 1/2 @ 6945' CMT W / 1150 SX	357	03/07 5646 - 6714 & frac
Apache Corporation	Hawk B 1	7	9 21S 37E	660 FSL, 660 FEL	OIL	30025064390002	9/3/1948	6750	13 3/8 @ 232' CMT W/ 200 SX, 8 5/8 @ 2779' CMT W / 500 SX, 7 @ 6723' CMT W/ 800 SX	100	05/07 5740 - 6773 & frac
										230	05/07 5658 - 6704 & frac
										Surface	11/48 6635 - 6705
											11/50 6200 - 6300
											03/64 5782 - 5982 & frac
Apache Corporation	Hawk B 1	10	8 21S 37E	660 FSL, 660 FEL	OIL	30025064330000	11/12/1945	6758	13 3/8 @ 229' CMT W/ 250 SX, 9 5/8 @ 2818' CMT W / 1100 SX, 7 @ 6753' CMT W/ 625 SX		11/93 6492 - 6718
											01/00 5634 - 6750, 5634-5918 & 6104 - 6238 (frac)
Apache Corporation	Hawk B 1	15	8 21S 37E	2093 FSL, 1867 FWL	GAS	30025262660000	5/28/1979	6880	8 5/8 @ 1340' CMT W / 892 SX, 5 1/2 @ 6880' CMT W / 400 SX	2699	12/45 6630 - 6708
Apache Corporation	Hawk B 1	34	9 21S 37E	1040 FSL, 1470 FWL	OIL	30025363440000	9/16/2003	6900	8 5/8 @ 1330' CMT W / 600 SX, 5 1/2 @ 6900' CMT W / 1250 SX		08/83 6515 - 6708
										1478	07/79 6485 - 6708 & frac
										Surface	11/03 BP @ 6440, 6106 - 6294 & frac
Apache Corporation	Hawk B 1	42	8 21S 37E	1365 FSL, 1420 FEL	OIL	30025370200000	6/10/2005	7383	8 5/8 @ 1420' CMT W / 650 SX, 5 1/2 @ 7383' CMT W / 1300 SX		03/05 6562 - 6628
Apache Corporation	Hawk B 1	45	8 21S 37E	1332 FSL, 2629 FWL	OIL	30025377410000	7/8/2006	6950	8 5/8 @ 1318' CMT W / 550 SX, 5 1/2 @ 6950' CMT W / 1150 SX	Surface	09/05 5870 - 5974 & frac
Apache Corporation	Hawk B 1	46	8 21S 37E	1475 FSL, 80 FEL	OIL	30025377420000	7/23/2006	6950	8 5/8 @ 1330' CMT W / 550 SX, 5 1/2 @ 6950' CMT W / 1100 SX	Surface	10/05 BP@ 6900, 5678 - 6758
Apache Corporation	Hawk B 1	47	9 21S 37E	1330 FSL, 2400 FEL	OIL	30025377430000	8/23/2006	6950	8 5/8 @ 1323' CMT W / 550 SX, 5 1/2 @ 6950' CMT W / 1400 SX	Surface	08/06 5732 - 6626 & frac
Apache Corporation	Hawk B 1	48	9 21S 37E	1440 FSL, 1332 FEL	OIL	30025377440000	9/8/2006	6875	8 5/8 @ 1288' CMT W / 600 SX, 5 1/2 @ 6875' CMT W / 1625 SX	Surface	09/06 5657 - 6758 & frac
Apache Corporation	Hawk B 1	62	9 21S 37E	185 FSL, 2460 FEL	OIL	30025381970000	3/8/2007	6895	8 5/8 @ 1307' CMT W / 575 SX, 5 1/2 @ 6895' CMT W / 1150 SX	Surface	10/06 5672 - 6659 & frac
Apache Corporation	Hawk B 1	63	9 21S 37E	190 FSL, 1461 FEL	OIL	30025381980000	2/2/2007	6870	8 5/8 @ 1296' CMT W / 600 SX, 5 1/2 @ 6870' CMT W / 1500 SX	Surface	11/06 5622 - 6714 & frac
Apache Corporation	Hawk B 1	64	9 21S 37E	2605 FSL, 1210 FEL	OIL	30025381990000	2/16/2007	6885	8 5/8 @ 1309' CMT W / 800 SX, 5 1/2 @ 6885' CMT W / 1110 SX	227	04/07 5611 - 6696 & frac
Apache Corporation	Hawk B 1	65	9 21S 37E	2620 FSL, 2510 FEL	OIL	30025382000000	4/18/2007	6900	8 5/8 @ 1320' CMT W / 575 SX, 5 1/2 @ 6900' CMT W / 1000 SX	300	03/07 5610 - 6668 & frac
Apache Corporation	Hawk B 1	66	8 21S 37E	2620 FSL, 20 FEL	OIL	30025385210000	10/27/2006	6975	8 5/8 @ 1275' CMT W / 600 SX, 5 1/2 @ 6975' CMT W / 1250 SX	170	03/07 5660 - 6870 & frac
Apache Corporation	Hawk B 1 (WSW)	16	8 21S 37E	660 FSL, 1980 FWL	OIL	30025266010000	5/15/1980	6825	9 5/8 @ 1350' CMT W / 485 SX, 7 @ 6825' CMT W / 1750 SX	207	05/07 5672 - 6870
										700	12/08 5683-6790
										Surface	08/80 5652 - 5697, 6533 - 6790 & frac
Apache Corporation	Lockhart A 17	3	17 21S 37E	1980 FNL, 660 FEL	OIL	30025068380000	7/7/1947	6645	13 3/8 @ 222' CMT W / 200SX, 9 5/8 @ 2529' CMT W / 1500 SX, 7 @ 6629' CMT W / 500 SX		08/83 5652 - 6790
											08/68 BP @ 4350, 3744 - 3762
										Surface	09/47 6623 - 6627
											08/55 5610 - 5900 & frac
											10/65 6481 - 6602 & frac
Apache Corporation	Lockhart A 17	20	17 21S 37E	2630 FNL, 1310 FEL	OIL	30025384110000	7/14/2007	6905	8 5/8 @ 1295' CMT W / 850 SX, 5 1/2 @ 6905' CMT W/ 1350 SX		06/72 3727 - 3773 & frac
Apache Corporation	Lockhart A 17	23	17 21S 37E	2630 FSL, 120 FEL	OIL	30025382040000	2/22/2007	6875	8 5/8 @ 1303' CMT W / 800 SX, 5 1/2 @ 6875' CMT W / 1075 SX		12/75 6481 - 6602
Apache Corporation	Lockhart A 17	25	17 21S 37E	110 FNL, 180 FEL	OIL	30025382050000	3/8/2007	6925	8 5/8 @ 1302' CMT W / 600 SX, 5 1/2 @ 6925' CMT W / 1100 SX	Surface	07/07 5610 - 6672 & frac
Apache Corporation	Lockhart A 17	26	17 21S 37E	1240 FNL, 40 FEL	OIL	30025382080000	3/17/2007	6905	8 5/8 @ 1300' CMT W / 575 SX, 5 1/2 @ 6905' CMT W / 1150 SX	440	04/07 5674 - 6688
Apache Corporation	Southland Royalty A	3	4 21S 37E	660 FSL, 1650 FWL	OIL	30025063950000	2/18/1948	6730	16 @ 212' CMT W / 300 SX, 10 3/4 @ 1304' CMT W / 716 SX, 5 1/2 @ 6775' CMT W / 900 SX	245	05/07 5642 - 6709
										240	05/07 5636 - 6678
										3390	04/48 6700 - 6730, deepen to 6775
Apache Corporation	Southland Royalty A	16	9 21S 37E	1210 FNL, 1470 FEL	OIL	30025363400000	9/2/2003	6900	8 5/8 @ 1285' CMT W / 800 SX, 5 1/2 @ 6900' CMT W / 1275 SX		11/61 plug @ 6689, 6338 - 6685
Apache Corporation	Southland Royalty A	19	4 21S 37E	130 FSL, 1270 FEL	OIL	30025363140000	8/7/2003	6900	8 5/8 @ 1288' CMT W / 700 SX, 5 1/2 @ 6900' CMT W / 1100 SX		11/84 5672 - 6688
Apache Corporation	Southland Royalty A	20	9 21S 37E	1330 FNL, 2310 FEL	OIL	30025370300000	2/16/2005	6900	8 5/8 @ 1216' CMT W / 575 SX, 5 1/2 @ 6900' CMT W / 1100 SX	Surface	01/04 5684 - 6668 & frac
Apache Corporation	Southland Royalty A	21	4 21S 37E	1310 FSL, 430 FEL	OIL	30025370310000	3/4/2005	6950	8 5/8 @ 1172' CMT W / 575 SX, 5 1/2 @ 6950' CMT W / 1150 SX	Surface	12/03 5688 - 6672 & frac
Apache Corporation	Southland Royalty A	23	4 21S 37E	2310 FSL, 350 FEL	OIL	30025374630000	10/17/2005	7267	8 5/8 @ 1195' CMT W / 575 SX, 5 1/2 @ 7267' CMT W / 1400 SX	Surface	08/05 5637 - 6643 & frac
Apache Corporation	Southland Royalty A	31	4 21S 37E	145 FSL, 2630 FEL	OIL	30025382810000	3/26/2007	6950	8 5/8 @ 1282' CMT W / 575 SX, 5 1/2 @ 6950' CMT W / 1050 SX	Surface	08/05 5691 - 5948 & frac
Apache Corporation	Southland Royalty A	32	4 21S 37E	145 FSL, 1460 FWL	OIL	30025385400000	2/25/2007	6990	8 5/8 @ 1280' CMT W / 575 SX, 5 1/2 @ 6990' CMT W / 1100 SX	Surface	02/06 5675 - 6684 & frac
Apache Corporation	State C TR 12	14	16 21S 37E	1240 FNL, 1270 FWL	OIL	30025383050000	7/23/2003	6950	8 5/8 @ 1276' CMT W / 550 SX, 5 1/2 @ 6950' CMT W / 1275 SX	Surface	03/07 5680 - 6706 & frac
Apache Corporation	State C TR 12	4	16 21S 37E	1980 FNL, 1980 FWL	OIL	30025066260000	9/17/1947	6857	13 3/8 @ 316' CMT W/ 325 SX, 9 5/8 @ 2900' CMT W / 1500 SX, 7 @ 6857' CMT W/ 450 SX	1750	04/07 5682 - 6812 & frac
										Surface	09/03 5652 - 6648 & frac
										2800	11/47 6220 - 6580
											04/54 5850 - 6010
											02/82 6432 - 6608, 5650-6258 (SQZ)
Apache Corporation	State C TR 12	7	16 21S 37E	660 FNL, 660 FWL	OIL	30025066290000	8/7/1949	6690	13 3/8 @ 335' CMT W/ 300 SX, 9 5/8 @ 2898' CMT W / 1500 SX, 5 1/2 @ 6629' CMT W/ 1300 SX		07/83 6044 - 6608
											03/00 5598 - 6608
										Surface	08/49 6629 - 6690 (Openhole)
Apache Corporation	State C TR 12	31	16 21S 37E	110 FNL, 1195 FWL	OIL	30025382670000	4/5/2007	6845	8 5/8 @ 1286' CMT W / 575 SX, 5 1/2 @ 6845' CMT W / 1600 SX		01/82 5936 - 5972 & frac
Apache Corporation	State C TR 12	33	16 21S 37E	1320 FNL, 2440 FWL	OIL	30025382680000	4/27/2007	6892	8 5/8 @ 1332' CMT W / 575 SX, 5 1/2 @ 6892' CMT W / 1300 SX	Surface	04/05 5629 - 6668
Apache Corporation	State DA	1	16 21S 37E	1980 FSL, 660 FWL	OIL	30025068150000	5/12/1947	6686	13 3/8 @ 216' CMT W/ 200 SX, 8 5/8 @ 2812' CMT W / 1200 SX, 5 1/2 @ 6686' CMT W/ 400 SX	280	04/07 5624 - 6644 & frac
										Surface	05/47 6640 - 6649
											10/81 3552 - 3594 & frac
											1/75 sqz 3552-94
Apache Corporation	State DA	3	16 21S 37E	1980 FSL, 1980 FEL	OIL	30025068180000	7/4/1947	6630	13 3/8 @ 225' CMT W/ 200 SX, 8 5/8 @ 2807' CMT W / 1580 SX, 5 1/2 @ 6630' CMT W/ 500 SX		12/96 CIBP @ 6400, 5823 - 6029 & frac
										Surface	08/47 6524 - 6629
											02/54 6180 - 6290
Apache Corporation	State DA	12	16 21S 37E	1650 FSL, 1650 FEL	OIL	30025372010000	6/12/2005	7310	8 5/8 @ 1289' CMT W / 600 SX, 5 1/2 @ 7310' CMT W / 1600 SX		9/96 CIBPs @6366&6160, 5565-5975
Apache Corporation	State DA	21	16 21S 37E	2530 FSL, 1240 FWL	OIL	30025382200000	1/19/2007	6875	8 5/8 @ 1227' CMT W / 575 SX, 5 1/2 @ 6875' CMT W / 1425 SX	Surface	10/05 5578 - 6647 & frac
										225	03/07 5604 - 6672 & frac

Apache Corporation	State DA	22	16 21S 37E	2630 FSL, 2610 FWL	OIL	30025382300000	2/28/2007	6793	8 5/8 @ 1255' CMT W / 600 SX, 5 1/2 @ 6793' CMT W / 1200 SX	Surface	02/07	5597 - 6648 & frac
Apache Corporation	State DA	23	16 21S 37E	2030 FSL, 1360 FEL	OIL	30025382310000	4/7/2007	6875	8 5/8 @ 1285' CMT W / 650 SX, 5 1/2 @ 6875' CMT W / 1250 SX	320	04/07	5621 - 6684 & frac
Apache Corporation	State DA	25	16 21S 37E	1510 FSL, 1280 FWL	OIL	30025384140000	6/23/2007	6850	8 5/8 @ 1273' CMT W / 575 SX, 5 1/2 @ 6850' CMT W / 1300 SX	Surface	07/07	5910 - 6678 & frac
Apache Corporation	State DA	26	16 21S 37E	1330 FSL, 2630 FWL	OIL	30025384150000	7/3/2007	6835	8 5/8 @ 1265' CMT W / 650 SX, 5 1/2 @ 6835' CMT W / 1400 SX	Surface	07/07	5715 - 6612 & frac
Apache Corporation	State Land 15	4	16 21S 37E	660 FSL, 660 FEL	OIL	30025086330001	8/22/1947	6665	13 3/8 @ 219' CMT W/ 250 SX, 8 5/8 @ 2864' CMT W / 1700 SX, 5 1/2 @ 6664' CMT W/ 400 SX	1262	07/47	6555 - 6640
											06/54	6185 - 6300
											05/06	5563 - 5789 & frac
Apache Corporation	State Land 15	5	16 21S 37E	330 FSL, 330 FEL	OIL	30025086340002	4/13/1952	8261	13 3/8 @ 293' CMT W/ 250 SX, 8 5/8 @ 2861' CMT W / 1500 SX, 5 1/2 @ 8259' CMT W/ 400 SX	3375	06/52	BP @ 8155, 7796 - 7838
											12/62	Sqz&PB to 7183, 5768 - 5891& 6878 - 7177
											11/05	5800 - 6297
Apache Corporation	State Land 15	6	16 21S 37E	330 FSL, 1650 FEL	OIL	30025203110000	9/19/1963	7300	13 3/8 @ 252' CMT W/ 300 SX, 8 5/8 @ 2990' CMT W / 665 SX, 5 1/2 @ 7298' CMT W/ 1005 SX	1986	10/63	6808 - 7052
											04/72	6490 - 6622 & frac
											03/06	6038 - 6275 & frac
											04/06	5571 - 5795 & frac
Apache Corporation	State Land 15	9	16 21S 37E	910 FSL, 1330 FEL	OIL	30025375350000	12/1/2005	7284	8 5/8 @ 1197' CMT W / 575 SX, 5 1/2 @ 7284' CMT W / 1150 SX	Surface	04/06	5596 - 6611 & frac
Apache Corporation	State Land 15	10	16 21S 37E	330 FSL, 2610 FEL	OIL	30025375360000	12/14/2005	7102	8 5/8 @ 1225' CMT W / 550 SX, 5 1/2 @ 7102' CMT W / 1250 SX	Surface	04/06	5800 - 6240 & frac
Apache Corporation	State Land 15	11	16 21S 37E	330 FSL, 1330 FWL	OIL	30025375370000	5/25/2006	7290	8 5/8 @ 1207' CMT W / 500 SX, 5 1/2 @ 7290' CMT W / 1050 SX	Surface	08/06	5832 - 6652 & frac
											7/04	5642-5860
Apache Corporation	WW Weatherly	3	17 21S 37E	1980 FNL, 1980 FEL	OIL	30025066480003	10/14/1947	6655	10 3/4 @ 363' CMT W/ 300 SX, 7 5/8 @ 2873' CMT W / 2000 SX, 5 1/2 @ 6655' CMT W/ 1100 SX	2500	11/47	6635 - 6650
											04/50	Deepen 22', 6635 - 6677
											01/71	3725 - 3787
											08/87	BP @ 6460, 6266 - 6438
												3725 - 3787 SQZ,
											03/04	5655 - 5904 & frac , 6266 - 6600 SQZ
CAMPBELL & HEDRICK	WEATHERLY	1	17 21S 37E NE N	330 FNL 1650 FEL CONGR	OIL-WO	30025066420001	11/16/1951	6684	13 3/8 @ 232 cmt w/ 250 sx, 8 5/8 @ 2765 cmt w/ 1100 sx, 5 1/2 @ 6513 cmt w/ 200 sx	3812	12/51	6513-6682
											6/01	5575-6682
APACHE CORP	SOUTHLAND ROYALTY A	22	9 21S 37E SE SE	2310 FNL 430 FEL CONGR	OIL	30025372000000	6/7/2005	7298	8 5/8 @ 1282 cmt w/ 625, 5 1/2 @ 7298 cmt w/ 1450	Surface	10/05	5824-6881
APACHE CORP	GULF HILL	8	4 21S 37E NW N	2630 FSL 2310 FEL CONGR	OIL	30025379830000	7/12/2006	7055	8 5/8 @ 1305' cmt w/ 550 sx, 5 1/2 @ 7055 cmt w/ 1250 sx	Surface	9/06	5714-6798

Wells outside Unit

OPERATOR NAME	LEA NAME	WELL NUM	LOCATION	FOOTAGE	TYPE	API	SPUD DATE	TD	CONSTRUCTION	TOP OF CEMENT	COMPLETIONS & COMMENTS
Apache Corporation	Weatherly	3	21 21S 37E	660 FNL 1980 FWL	OIL	30025067210000	09/03/47	6624	12 3/4 @ 159' CMT W/ 175 SX, 8 5/8 @ 2867' CMT W/ 1200 SX, 5 1/2 @ 6624' CMT W/ 600 SX	2500	10/47 5586-6619
											12/57 5580-6432
											10/82 6834-6020
APACHE CORP	NORTHEAST DRINKARD UNIT	602	10 21S 37E	660 FSL 660 FWL	OIL	30025064630000	8/24/1948	6660	10 3/4 @ 316' CMT W/ 250 SX, 7 @ 2806' CMT W / 1050 SX, 5 1/2 @ 6659' CMT W / 450 SX		8/67 5700-8194
EXXONMOBIL	NEW MEXICO STATE V	10	10 21S 37E	560 FSL 660 FWL	OIL-WO	30025064720002	3/21/1952	7939	10 3/4 @ 342' CMT W/ 375 SX, 7 5/8 @ 3104' CMT W / 1000 SX, 5 1/2 @ 7939' CMT W / 450 SX	Surface	11/46 6625 - 6656
											07/67 6710 - 6850 & frac
										183	09/52 7810 - 7939
											09/59 6960 - 7132
											07/63 6472 - 6512
APACHE CORP	NORTHEAST DRINKARD UNIT	415	10 21S 37E	1208 FNL 1745 FWL	OIL	30025346510000	9/12/1999	6870	8 5/8 @ 1345' CMT W / 460 SX, 5 1/2 @ 6870' CMT W / 1500 SX		02/93 BP @ 5100 & 6400, 4000 - 4353
APACHE CORP	NORTHEAST DRINKARD UNIT	416	10 21S 37E	2304 FSL 1431 FWL	OIL	30025347980000	3/2/2000	6889	8 5/8 @ 1223' CMT W / 460 SX, 5 1/2 @ 6880' CMT W / 1425 SX	Surface	10/99 6613 - 6710 & frac
APACHE CORP	NORTHEAST DRINKARD UNIT	422	10 21S 37E	2500 FNL 390 FWL	OIL	30025374440000	10/4/2005	6900	8 5/8 @ 1267' CMT W / 575 SX, 5 1/2 @ 6900' CMT W / 1400 SX	Surface	04/06 6510 - 6700 & frac
APACHE CORP	NORTHEAST DRINKARD UNIT	623	10 21S 37E	1420 FSL 1300 FWL	OIL	30025347990000	3/17/2000	6880	8 5/8 @ 1203' CMT W / 460 SX, 5 1/2 @ 6880' CMT W / 1375 SX	Surface	11/05 5022 - 5702 & frac
APACHE CORP	NORTHEAST DRINKARD UNIT	627	10 21S 37E	1310 FSL 330 FWL	OIL	30025372420000	9/2/2001	6852	8 5/8 @ 1287' CMT W / 575 SX, 5 1/2 @ 6852' CMT W / 1150 SX	Surface	04/06 6589 - 6638 & frac
APACHE CORP	NORTHEAST DRINKARD UNIT	418	10 21S 37E	1250 FNL 150 FWL	OIL	30025363660000	9/29/2002	6925	8 5/8 @ 1339' CMT W / 600 SX, 5 1/2 @ 6925' CMT W / 1250 SX	Surface	10/05 6029 - 6687 & frac
APACHE CORP	NORTHEAST DRINKARD UNIT	419	10 21S 37E	150 FNL 100 FWL	OIL	30025363670000	10/11/2002	6900	8 5/8 @ 1327' CMT W / 600 SX, 5 1/2 @ 6900' CMT W / 1250 SX	Surface	01/04 6058 - 6549 & frac
APACHE CORP	NORTHEAST DRINKARD UNIT	614	10 21S 37E	2010 FSL 660 FWL	OIL	30025309130000	12/27/1999	6830	13 3/8 @ 410' CMT W/ 450 SX, 8 5/8 @ 3014' CMT W / 1850 SX, 5 1/2 @ 6827' CMT W / 1055 SX	Surface	12/03 6132 - 6660 & frac
APACHE CORP	ARGO	7	15 21S 37E	2310 FSL 990 FWL	OIL-WO	30025099150003	4/13/1957	8193	13 3/8 @ 223' CMT W/ 250 SX, 8 5/8 @ 2907' CMT W / 2000 SX, 5 1/2 @ 8015' CMT W / 779 SX	Surface	05/91 6407 - 6725
										2915	05/51 8016 - 8193 (Openhole)
											04/73 cibp @ 7905, 6821 - 7109
											10/83 BP @ 6905, 6420 - 6536
											07/01 BP @ 6350, 3700 - 3974 & frac
APACHE CORP	ARGO	9	15 21S 37E	330 FSL 990 FWL	OIL	30025099050000	5/29/1951	8189	13 3/8 @ 225' CMT W/ 250 SX, 8 5/8 @ 2917' CMT W / 1200 SX, 5 1/2 @ 7701' - 8000' CMT W / 925 SX		00/04 4350 - 4900 & frac, 3700 - 3974 SQZ
APACHE CORP	ARGO	11	15 21S 37E	2080 FSL 1650 FWL	OIL-WO	30025099070002	7/14/1957	7891	13 3/8 @ 228' CMT W/ 250 SX, 8 5/8 @ 2903' CMT W / 1950 SX, 5 1/2 @ 7976' - 7890' CMT W / 800 SX	4575	07/51 8000 - 8189 (Openhole)
											04/62 BP @ 7955, 7558 - 7925 & frac
										5208	09/51 7518 - 7820
APACHE CORP	ARGO	12	15 21S 37E	400 FSL 550 FWL	OIL	30025099080000	12/15/1951	8033	13 3/8 @ 227' CMT W/ 254 SX, 8 5/8 @ 2882' CMT W / 1900 SX, 5 1/2 @ 8033' CMT W / 983 SX		04/73 cibp @ 7445, 6864 - 7209
											11/93 BP @ 4075, 3950 - 3940
										2091	02/52 7001 - 7973
											10/73 3770 - 3790, 7091 - 7973 Shutoff,
											09/95 6990 - 7178, 3770 - 7973 SQZ
APACHE CORP	NORTHEAST DRINKARD UNIT	624	15 21S 37E	100 FNL 1350 FWL	OIL	30025348660000	4/1/2000	6880	8 5/8 @ 1207' CMT W / 460 SX, 5 1/2 @ 6880' CMT W / 1500 SX		09/01 BP @ 6980, 6938 - 6978 & frac
APACHE CORP	NORTHEAST DRINKARD UNIT	626	15 21S 37E	130 FNL 330 FWL	OIL	30025358090000	11/27/2004	6900	8 5/8 @ 1278' CMT W / 575 SX, 5 1/2 @ 6900' CMT W / 1100 SX	Surface	05/00 6578 - 6080 & frac
APACHE CORP	NORTHEAST DRINKARD UNIT	604	15 21S 37E	2310 FNL 990 FWL	OIL-WO	30025065910002	8/28/1951	8193	13 3/8 @ 324' CMT W/ 250 SX, 8 5/8 @ 2835' CMT W / 500 SX, 5 1/2 @ 8042' CMT W / 429 SX	Surface	01/05 6022 - 6808 & frac
										5438	10/51 6042 - 8193 (Openhole)
											10/03 6792 - 6908 & frac
											10/99 5748 - 6572
APACHE CORP	NORTHEAST DRINKARD UNIT	624	15 21S 37E	1250 FNL 1358 FWL	OIL	30025348870000	4/18/2000	6880	8 5/8 @ 1213' CMT W / 460 SX, 5 1/2 @ 6880' CMT W / 1400 SX	Surface	05/00 5557 - 6082 & frac
APACHE CORP	NORTHEAST DRINKARD UNIT	629	15 21S 37E	2630 FSL 330 FWL	OIL	30025372280000	5/25/2005	6900	8 5/8 @ 1290' CMT W / 575 SX, 5 1/2 @ 6900' CMT W / 1300 SX	Surface	08/05 5578 - 6832 & frac
APACHE CORP	NORTHEAST DRINKARD UNIT	701	15 21S 37E	1980 FSL 660 FWL	OIL-WO	30025099180002	10/19/1947	8154	13 3/8 @ 210' CMT W/ 210 SX, 8 5/8 @ 2875' CMT W / 800 SX, 5 1/2 @ 8052' CMT W / 600 SX	2840	12/47 6010 - 8051
											07/03 5760 - 6817 & frac
											10/99 5696 - 5700, 5510 - 5570 SQZ
APACHE CORP	NORTHEAST DRINKARD UNIT	713	15 21S 37E	1330 FSL 1142 FWL	OIL	30025348880000	9/25/2000	6790	8 5/8 @ 1245' CMT W / 460 SX, 5 1/2 @ 6790' CMT W / 1525 SX	Surface	11/00 6538 - 6908 & frac
APACHE CORP	NORTHEAST DRINKARD UNIT	721	15 21S 37E	1310 FSL 330 FWL	OIL	30025372430000	9/18/2001	6850	8 5/8 @ 1278' CMT W / 575 SX, 5 1/2 @ 6850' CMT W / 1300 SX	Surface	10/05 5588 - 6597 & frac
CHEVRON USA INC	STATE S	1	15 21S 37E	660 FNL 660 FWL	OIL	30025065880000	6/24/1948	6990	13 3/8 @ 293' CMT W/ 300 SX, 8 5/8 @ 2787' CMT W / 1200 SX, 5 1/2 @ 6925' CMT W / 400 SX		09/48 6560 - 6909
											01/94 3909 - 3956, 6560 - 6900, SQZ
CHEVRON USA INC	STATE S	6	15 21S 37E	660 FNL 990 FWL	OIL-WO	30025065120001	2/13/1951	8148	13 3/8 @ 294' CMT W/ 200 SX, 8 5/8 @ 2974' CMT W / 2000 SX, 5 1/2 @ 8147' CMT W / 500 SX	4802	04/51 7210 - 7710
											05/70 6792 - 7343 & frac
											05/76 cibp @ 6595, 6404 - 6640 & frac
CHEVRON USA INC	MITTIE WEATHERLY	3	17 21S 37E	660 FNL 1980 FWL	OIL	30025066490000	8/30/1952	6950	13 3/8 @ 314' CMT W/ 325 SX, 8 5/8 @ 2812' CMT W / 1500 SX, 5 1/2 @ 6950' CMT W / 350 SX		04/94 BP @ 6395, 3841 - 3851
										4371	11/62 6004 - 6545
											09/71 3703 - 3798 & frac
APACHE CORP	LIVINGSTON	14	3 21S 37E	3500 FSL 367 FWL	OIL-WO	30025268710001	4/10/1984	7740	13 3/8 @ 481' CMT W/ 475 SX, 8 5/8 @ 2470' CMT W / 1425 SX, 5 1/2 @ 7745' CMT W / 1295 SX		07/03 3811 - 3974 & frac, 3704 - 3888 SQZ
										Surface	09/84 7080 - 7208
APACHE CORP	NORTHEAST DRINKARD UNIT	331	3 21S 37E	1400 FSL 1350 FWL	OIL	30025344330000	9/11/1998	6855	8 5/8 @ 1326' CMT W / 410 SX, 5 1/2 @ 6855' CMT W / 1450 SX		09/00 BP @ 6210, 3946 - 3946 & frac
APACHE CORP	NORTHEAST DRINKARD UNIT	332	3 21S 37E	140 FSL 1174 FWL	OIL	30025347390000	2/16/2000	6890	8 5/8 @ 1305' CMT W / 460 SX, 5 1/2 @ 6890' CMT W / 1425 SX	Surface	12/98 5924 - 6730 & frac
APACHE CORP	NORTHEAST DRINKARD UNIT	240	3 21S 37E	3450 FSL 990 FWL	W-INJ	30025359040000	2/20/2002	6850	8 5/8 @ 1298' CMT W / 550 SX, 5 1/2 @ 6850' CMT W / 1500 SX	Surface	04/00 6047 - 6098 & frac
APACHE CORP	NORTHEAST DRINKARD UNIT	243	3 21S 37E	2780 FSL 330 FWL	OIL	30025381520000	5/22/2007	6955	8 5/8 @ 1290' CMT W / 575 SX, 5 1/2 @ 6955' CMT W / 1250 SX	Surface	10/02 5044 - 6734
Western Oil Fields	Gulf Hill	4	4 21S 37E	1980 FSL 1980 FWL	20IL	30025127590000	7/13/1953	7450	16 @ 279' CMT W/ 330 SX, 10 3/4 @ 2940' CMT W / 1344 SX, (3) 2 7/8 @ 7215' CMT W / 900 SX	Surface	09/01 6002 - 6714
										3740	02/04 5717 - 6799 & frac
											04/07 7020 - 7099
MIRAGE ENERGY INC	GULF HILL	5	4 21S 37E	1650 FSL 2310 FWL	OIL-WO	30025294720001	11/12/1985	7250	8 5/8 @ 1287' CMT W / 700 SX, 5 1/2 @ 7249' CMT W / 1900 SX		07/74 P&A (Summit Energy)
										Surface	02/89 6559 - 6714
APACHE CORP	HAWK A 4	4	4 21S 37E	1650 FSL 990 FWL	OIL-WO	30025381270000	11/8/2006	7050	8 5/8 @ 1288' CMT W / 600 SX, 5 1/2 @ 7050' CMT W / 1350 SX		09/90 5641 - 6913
APACHE CORP	NORTHEAST DRINKARD UNIT	202	4 21S 37E	3330 FNL 467 FEL	OIL-WO	30025269990003	10/9/1980	8156	13 3/8 @ 1190' CMT W/ 935 SX, 9 5/8 @ 3500' CMT W / 1200 SX, 7 @ 8163' CMT W / 1720 SX	Surface	03/07 5724 - 6845 & frac
										Surface	11/81 5037 - 5093 & frac
											08/82 5037 - 6809
											09/85 BP @ 7230, 7002 - 7195 & frac, 6037 - 6809 SQZ
											09/89 BP @ 6215, 5757 - 6820
APACHE CORP	NORTHEAST DRINKARD UNIT	234	4 21S 37E	3810 FSL 200 FEL	OIL	30025347380000	1/3/2000	6900	8 5/8 @ 1275' CMT W / 460 SX, 5 1/2 @ 6900' CMT W / 1740 SX	Surface	02/00 5023 - 6912
APACHE CORP	NORTHEAST DRINKARD UNIT	241	4 21S 37E	3700 FNL 940 FEL		30025365280000	5/18/2007	7000	8 5/8 @ 1290' CMT W / 845 SX, 5 1/2 @ 7000' CMT W / 1150 SX	Surface	09/07 5040 - 6750 & frac
APACHE CORP	HAWK A-6	6	5 21S 37E	1650 FSL 330 FEL	OIL	30025381260000	8/17/2007	7032	8 5/8 @ 1307' CMT W / 650 SX, 5 1/2 @ 7025' CMT W / 1250 SX		09/07 5840 - 6853 & frac
APACHE CORP	HAWK A-6	3	5 21S 37E	330 FSL 1650 FEL	OIL	30025373600000	8/7/2005	7500	8 5/8 @ 1230' CMT W / 575 SX, 5 1/2 @ 7500' CMT W / 2300 SX	Surface	10/05 BP @ 6978, RBP @ 6072 & 6200, 5737 - 6025 & frac
											01/06 5737 - 6850
CHEVRON USA INC	MATTERN H T NCT-C	10	8 21S 37E	2130 FNL 1730 FWL	OIL	30025254110000	3/4/1977	6800	8 5/8 @ 1355' CMT W / 200 SX, 5 1/2 @ 6800' CMT W / 750 SX	1917	03/77 6545 - 6740 & frac
											09/00 Sqz 6545-6740&deepen to 7201, 6800 - 7201 (Openhole)
CHEVRON USA INC	MATTERN H T NCT-C	12	8 21S 37E	2310 FNL 660 FWL	OIL	30025255470000	6/4/1977	6800	8 5/8 @ 354' CMT W / 550 SX, 5 1/2 @ 6800' CMT W / 1000 SX	Surface	08/77 6507 - 6740 & frac
											12/02 P&A
APACHE CORP	NORTHEAST DRINKARD UNIT	401	10 21S 37E	990 FNL 840 FWL	OIL	30025064590000	5/7/1953	7500	13 3/8 @ 240' CMT W/ 250 SX, 9 5/8 @ 3150' CMT W / 1912 SX, 7 @ 7500' CMT W / 835 SX	3275	09/54 7445 - 7475
											03/55 PB 6943, 6191 - 6710, 6191 - 6300 (frac)
											08/59 6191 - 6300, Acidized
											8/88 6728-6731
APACHE CORP	NORTHEAST DRINKARD UNIT	402	10 21S 37E	1980 FNL 990 FWL	OIL	30025064610000	2/27/1953	8161	10 3/4 @ 249' CMT W/ 250 SX, 7 5/8 @ 3128' CMT W / 1275 SX, 5 1/2 @ 7669' CMT W / 375 SX	3160	09/54 7000 - 7050 & TA
											08/55 5590 - 6704
											9/90 5590-6753
LEWIS B BUTLESON INC	STATE 10	1	10 21S 37E	990 FNL 990 FWL	OIL	30025064600000	12/20/1952	8245	13 3/8 @ 236' CMT W/ 250 SX, 9 5/8 @ 3128' CMT W / 1308 SX, 7 @ 8279' CMT W / 1250 SX	Surface	02/53 7800 - 7974
											04/62 6925 - 7974
											08/05 5754 - 6002 & frac
APACHE CORP	NORTHEAST DRINKARD UNIT	203	4 21S 37 E	3200 FSL 800 FEL	OIL	30025065980000	1/25/1953	7436	13 3/8 @ 283' CMT W/ 250 SX, 8 5/8 @ 3151' CMT W / 2300 SX, 5 1/2 @ 7435' CMT W / 550 SX	3856	02/53 7024 - 7280
											10/01 5772 - 6950
											09/95 7024 - 7284 & frac, 6772 - 6782 SQZ
											04/80 BP @ 6905, 5652 - 6002
APACHE CORP	NORTHEAST DRINKARD UNIT	201	4 21S 37 E	4620 FSL 500 FEL	OIL	30025065990000	12/27/1951	6750	9 5/8 @ 308' CMT W/ 250 SX, 2 7/8 Tubing String @ 6743'	2200	09/52 6703 - 6905
											11/03 6543 - 6603 & frac
APACHE CORP	NORTHEAST DRINKARD UNIT	205	3 21S 37E	3300 FSL 660 FWL	OIL	30025065210000	11/20/1951	6730	9 5/8 @ 271' CMT W/ 250 SX, (3) 2 7/8 Tubing String @ 6725' CMT W/ 325 SX	5452	01/02 5719 - 6035 & frac
											04/83 6133 - 6363, 5719 - 5824 & 6519 - 6625 SQZ
											08/99 P&A
APACHE CORP	NORTHEAST DRINKARD UNIT	302W	3 21S 37E	1980 FSL 1980 FWL	OIL	30025065120000	9/23/1949	6974	13 3/8 @ 228' CMT W/ 300 SX, 8 5/8 @ 2919' CMT W / 1800 SX, 5 1/2 @ 6874' CMT W / 600 SX	3000	11/49 6502 - 6940
											9/95 CIBP 5990, 5809-5954, CTI
APACHE CORP	NORTHEAST DRINKARD UNIT	601	15 21S 37E	660 FNL 990 FWL	OIL	30025065140000	2/25/1952	8145	13 3/8 @ 293' CMT W/ 300 SX, 8 5/8 @ 2997' CMT W / 2000 SX, 5 1/2 @ 2847' - 8142' CMT W / 350 SX	5400	04/52 7988 - 8050
											03/04 CIBP 7900, 6705 - 6874 & frac
											7/88 6057-87
											8/88 5979-5984, 6454-6704
APACHE CORP	NORTHEAST DRINKARD UNIT	602	15 21S 37E	1980 FNL 660 FWL	OIL	30025099140000	4/11/1948	9009	13 3/8 @ 207' CMT W/ 300 SX, 8 5/8 @ 2799' CMT W / 800 SX, 5 1/2 @ 6625' CMT W / 350 SX	4390	05/48 6025 - 6269 (Openhole)
APACHE CORP	NORTHEAST DRINKARD UNIT	603	15 21S 37E	3300 FSL 4620 FEL	OIL	30025099130000	2/18/1951	8182	13 3/8 @ 295' CMT W/ 325 SX, 8 5/8 @ 2819' CMT W / 500 SX, 5 1/2 @ 8030' CMT W / 400 SX	5452	04/51 7800 - 7850
											02/73 6723 - 7231
											02/95 P&A
APACHE CORP	NORTHEAST DRINKARD UNIT	625	15 21S 37E	2580 FNL 1300 FWL	OIL	30025362710000	9/5/2001	6840	8 5/8 @ 1219' CMT W / 460 SX, 5 1/2 @ 6838' CMT W / 1450 SX	Surface	09/01 6016 - 6634 & frac
APACHE CORP	NORTHEAST DRINKARD UNIT	702	15 21S 37E	660 FSL 660 FWL	OIL	30025099110000	8/9/1947	8040	13 3/8 @ 301' CMT W/ 250 SX, 8 5/8 @ 2829' CMT W / 800 SX, 5 1/2 @ 8017' CMT W / 500 SX	3391	10/47 6529-6640

Wells outside Unit

											0/03 5720-5833
APACHE CORP	Arco	10	15 21S 37E	1880 FSL 760 FWL	WSW	30025066060000	7/19/1951	8015	13 3/8 @ 241' CMT W/ 250 SX, 8 5/8 @ 2907' CMT W / 1700 SX, 5 1/2 @ 8012' CMT W / 875 SX		2/89 Sqz 6030-6240&6507-5833, 5720-0497
										2315	09/51 7647 - 7905
											11/05 6086 - 7214
											00/73 6419 - 6481 & frac, 6080 - 7214 SQZ
											03/81 6421 - 6498
APACHE CORP	NORTHEAST DRINKARD UNIT	302	3 21S 37E	660 FSL 330 FWL	OIL	30025065160000	1/18/1952	6690	13 3/8 @ 218' CMT W/ 250 SX, 8 5/8 @ 3158' CMT W / 2200 SX, 5 1/2 @ 6689' CMT W / 200 SX		05/89 BP @ 6340, 4010 - 4941
APACHE CORP	NORTHEAST DRINKARD UNIT	341	3 21S 37E	1330 FSL 330 FWL	OIL	30025381540000	6/4/2007	6906	8 5/8 @ 1318' CMT W / 575 SX, 5 1/2 @ 6906' CMT W / 1400 SX	5368	01/52 6046 - 6058
APACHE CORP	NORTHEAST DRINKARD UNIT	501	10 21S 37E	1980 FSL 330 FWL	OIL	30025064740000	4/14/1962	5990	10 3/4 @ 310' CMT W/ 200 SX, 7 5/8 @ 2975 CMT W/ 200 SX, 2 7/8 @ 5989 CMT W/ 600 SX	Surface	06/07 6633 - 6728 & frac
										2902	00/02 6874 - 6930
APACHE CORP	NORTHEAST DRINKARD UNIT	301	3 21S 37E	1980 FSL 660 FWL CONGRES	GAS-WO	30025063880002	1/18/1950	6690	13 3/8 @285' cmt w/ 300 sx, 8 5/8 @2972 cmt w/ 1600 sx, 5 1/2 @6620' cmt w/ 200 sx		06/04 6793 - 6844 & frac
										2869	4/50 6620-90
APACHE CORP	GULF HILL	1	4 21S 37E C NW SE	1980 FSL 1980 FEL CONGRE	OIL-WO	30025064010001	5/3/1954	5974	13 3/8 @ 150' cmt w/ 150 sx, 8 5/8 @ 2933' cmt w/ 600 sx, 5 1/2 @5934 cmt w/ 350sx		4/62 5708-5839
										2740	0/54 6652-6816
APACHE CORP	HAWK 'B-1'	12	8 21S 37E	660 FSL 1980 FEL CONGRES	10&1GW	30025064350002	9/4/1952	6722	13 3/4 @ 238 cmt w/ 200 sx, 9 5/8 @ 2856' cmt w/ 1380 sx, 7 @ 6650' cmt w/ 625 sx		12/00 BP 6000' 3897-4019
										Surface	10/52 6028-51
											5/59 3508-3695
HUMBLE OIL & REFG CO	NEW MEXICO STATE V	2	10 21S 37E	660 FSL 1980 FWL CONGRE	OIL	30025064640000	11/14/1948	6751	10 3/4 @ 332' cmt w/ 275 sx, 7 5/8 @3194 cmt w/ 1250 sx, 5 1/2 @6656 cmt w/ 675 sx		7/79 3568-3826
										2000	2/49 6530-6751
EXXON CORPORATION	NEW MEXICO 'V' STATE	5	10 21S 37E SW SW	660 FSL 760 FWL CONGRES	OIL-WO	30025064670005	5/26/1951	8396	12 3/4 @ 329 cmt w/ 400 sx, 8 5/8 @3100' cmt w/ 900 sx, 5 1/2 @8396' cmt w/ 350 sx		3/54 P&A
										3099	6/51 8170-8365
											2/59 8102-23
											3/01 7838-7094 non-commercial
											6/01 6940-7200
											5/69 6200-02
Exxon Mobil Corporation	NEW MEXICO STATE V	7	10 21S 37E	500 FSL 1880 FWL CONGRES	OIL-WO	30025064690002	10/29/1951	7625	12 3/4 @337' cmt w/ 350 sx, 8 5/8 @ 3107' cmt w/ 900 sx, 5 1/2 @ 7625 cmt w/ 500 sx		5/94 BP @ 4365, 3827-3980
										871	11/51 7504-7620
EXXON CORPORATION	NEW MEXICO 'V' STATE	WD-9	10 21S 37E	1980 FSL 1980 FWL CONGRE	SERW	30025064710004	2/2/1952	8240	10 3/4 @ 329 cmt w/ 375 sx, 7 5/8 @ 3079' cmt w/ 1000 sx, 5 1/2 @ 8240' cmt w/ 450 sx		4/63 5788-6816
										2980	3/52 8090-8202
											8/58 7974-8004
											10/91 BP @ 7630', 6897-7205
											12/93 BP @ 4465, 3763-3965
APACHE CORP	NORTHEAST (DRINKARD) UNIT	233	3 21S 37E	2562 FSL 1330 FWL CONGRE	OIL	30025344310000	9/24/1998	6870	8 5/8 @1285 cmt w/ 410 sx, 5 1/2 @6870 cmt w/ 1300 sx		10/96 3763-4944 SERW
BURLESON LEWIS B INC	STATE 10	2	10 21S 37E SW SW	2273 FNL 467 FWL CONGRES	OIL	30025300700000	1/18/2003	7505	8 5/8 @1275 cmt w/ 600 sx, 5 1/2 @7503 cmt w/ 1800 sx	Surface	1/99 5602-6542
BURLESON LEWIS B INC	STATE 10	4	10 21S 37E NW NW	407 FNL 467 FWL CONGRES	OIL	30025371460000	5/25/2005	5510	8 5/8 @1284 cmt w/ 595 sx, 5 1/2 @5510 cmt w/ 785 sx	Surface	6/03 6852-7091
APACHE CORP	NORTHEAST DRINKARD UNIT	628	15 21S 37E NW SW	1419 FNL 380 FWL CONGRES	OIL	30025372230000	12/30/2005	7100	8 5/8 @1198 cmt w/ 575 sx, 5 1/2 @7018 cmt w/ 1800 sx	Surface	
APACHE CORP	STATE D A	5	16 21S 37E	1980 FSL 330 FEL CONGRES	OIL-WO	30025066170003	2/4/1952	8330	13 3/8 @ 250 cmt w/ 200 sx, 8 5/8 @ 2820 cmt w/ 1500 sx, 5 1/2 @ 8225' cmt w/ 500 sx	Surface	2/06 5740-6834
										1472	5/52 7836-7904
											11/62 6909-7217
											7/65 5763-5956
CHEVRON U S A INC	LEONARD HARRY NCT-E	1	16 21S 37E C SW NE	1980 FNL 1980 FEL CONGRE	OIL-WO	30025066200003	8/14/1947	6670	13 3/8 @ 294 cmt w/ 300 sx, 9 5/8 @ 2150 cmt w/ 1300 sx, 7 @ 6610 cmt w/ 700 sx		10/04 3725-5363
										1856	11/47 6623-70
											9/01 5822-6900
											1/75 5822-6594
CHEVRON U S A INC	LEONARD HARRY 'NCT-E'	3	16 21S 37E C NW NE	660 FNL 1980 FEL CONGRES	OIL-WO	30025066220002	9/13/1948	6710	13 3/8 @ 304' cmt w/ 300 sx, 9 5/8 @ 2800' cmt w/ 1200 sx, 7 @ 6649' cmt w/ 700sx		7/02 BP @ 5800, sqz 3900-72, 3770-4004
										2404	11/48 6649-6710
CHEVRON U S A INC	LEONARD HARRY NCT E	5	16 21S 37E SE SE N	2310 FNL 330 FEL CONGRES	OIL-WO	30025066240100	7/22/1952	8220	12 3/4 @ 268 cmt w/ 325 sx, 8 5/8 @ 2729 cmt w/ 808 sx, 5 1/2 @ 7999 cmt w/ 431 sx (total), 3 1/2 slot liner 3657-6596		7/02 3773-3988
										5392	7/52 7805-7920
											9/09 pump 330 sx thru holes @ 7400' (toc 5392 by TS0, 7295-7333
											1/73 CIBP @ 7280', 6745-7229
											1/02 BP @ 4150, 3768-3985
											10/05 CIBP @ 3727, mill window & horz 3720-6053
STANOLND OIL CO	STATE C TR-12	6	16 21S 37E	660 FNL 1980 FWL CONGRES	J&A	30025066270000	2/11/1948	5762	13 3/8 @ 312 cmt w/ 300 sx, 9 5/8 @ 1385 cmt w/ 600 sx	na	5/48 J&A
APACHE CORP	STATE LAND 15	1	16 21S 37E C SW SW	660 FSL 660 FWL CONGRES	D&AW	30025066300003	1/19/1947	6700	13 3/8 @ 334' cmt w/ 350 sx, 8 5/8 @ 2649 cmt w/ 2100 sx, 7 @ 6699 cmt w/ 300 sx	2605	3/47 6600-6630
											4/63 5779-5899
											7/71 3718-3757
											3/04 Tst 6048-6080, BP @ 6400, sqz 6046-6699
APACHE CORP	STATE LAND 15	2	16 21S 37E C SE SW	660 FSL 1980 FWL CONGRES	OIL-WO	30025066310003	3/15/1947	6700	13 3/8 @ 380 cmt w/ 300 sx, 8 5/8 @ 2864 cmt w/ 1600 sx, 5 1/2 @ 6699 cmt w/ 300 sx		11/04 BP @ 6580, 3810-3947
										2840	5/47 6560-6650
											10/63 5791-5872
APACHE CORP	LOCKHART 'A-17'	2	17 21S 37E	1980 FSL 660 FEL CONGRES	OIL-WO	30025066370004	4/16/1947	6630	13 3/8 @ 195' cmt w/ 200 sx, 9 5/8 @ 2538 cmt w/ 460 sx, 5 1/2 @ 6620' cmt w/ 500 sx		12/04 3805-3917
										Surface	6/47 6505-6603
											5/59 3525-3565
											8/79 add 5550-5948
											4/81 sqz 3525-3565
											5/83 BP 6500, 3088-3705
APACHE CORP	HAWK B-1	6	9 21S 37E	1060 FSL 1980 FWL CONGRE	OIL-WO	30025099070004	6/20/1948	6730	13 3/8 @ 230' cmt w/ 200 sx, 9 5/8 @ 2779' cmt w/ 550 sx, 7 @ 6680' cmt w/ 950 sx, 5" 6406-7528 w/ 115 sx	Surface	8/48 6680-6730
											7/55 add 5600-5640
											7/83 deepen to 7530, BP @ 6973, 6784-6801
											7/05 4125-4212
CHEVRON U S A INC	LEONARD HARRY NCT-E	6	16 21S 37E NE NE N	330 FNL 600 FEL CONGRES	OIL-WO	30025251980001	1/1/1976	6720	8 5/8 @ 1305' cmt w/ 550 sx, 5 1/2 @ 6720 cmt w/ 1050 sx	Surface	2/76 6461-6514
											6/02 BP @ 6354, 3728-3968
Apache Corporation	State C TR 12	21	16 21S 37E	430 FN, 2210 FWL	OIL	30025372020000	7/26/2005	7300	8 5/8 @ 1287' CMT W / 600 SX, 5 1/2 @ 7300' CMT W / 1400 SX	Surface	09/05 6790 - 7166

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APACHE CORP.

Plug and Abandoned Well Summary

Lease: NE Drinkard Unit
Well : 603
Area: Lea
Res: Blinebry, Abo

Location : 3390' FSL, 4520' FEL, Sec.15 T-21S R-37E
BHL: 3390' FSL, 4520' FEL, Sec.15 T-21S R-37E
Start Date 11/13/1993
End Date 11/22/1993

API 30025099130000
TD 8182'
Elevation: 3445'
RKB:

Directional	Sands / Markers	Depth TVD	Completion Info	Casing Profile	Inc deg	Hole Size	Casing Details	Mud Wt. & Type	Max. Dogleg Severity
		0'	Cement to Surface		0°	17 1/4"	Surface Casing 13 3/8 " CMT W/ 325 SX Circ to Surface		
		296'							
		750'	CICR						
		2739'				11 3/4"	Intermediate Casing 8 5/8 " CMT W / 500 SX TOC = 1193'		
		2802'	CICR						
		2818'							
	CSG LK BTW 4934' - 4965' SQZ w / 200 sx	4715'							
		4841'	CICR						
		5466'							
	Blinebry Perfs SQZ w / 250 sx	5651'	CICR						
		6696'							
			CIBP						
		6731'				7 7/8"	Production Casing 5 1/2" CMT W/ 400 SX TOC = 5452'		
	Abo Perfs	6723' - 7231'							
	Casting Shoe	8030'							

Note: Not to Scale

37

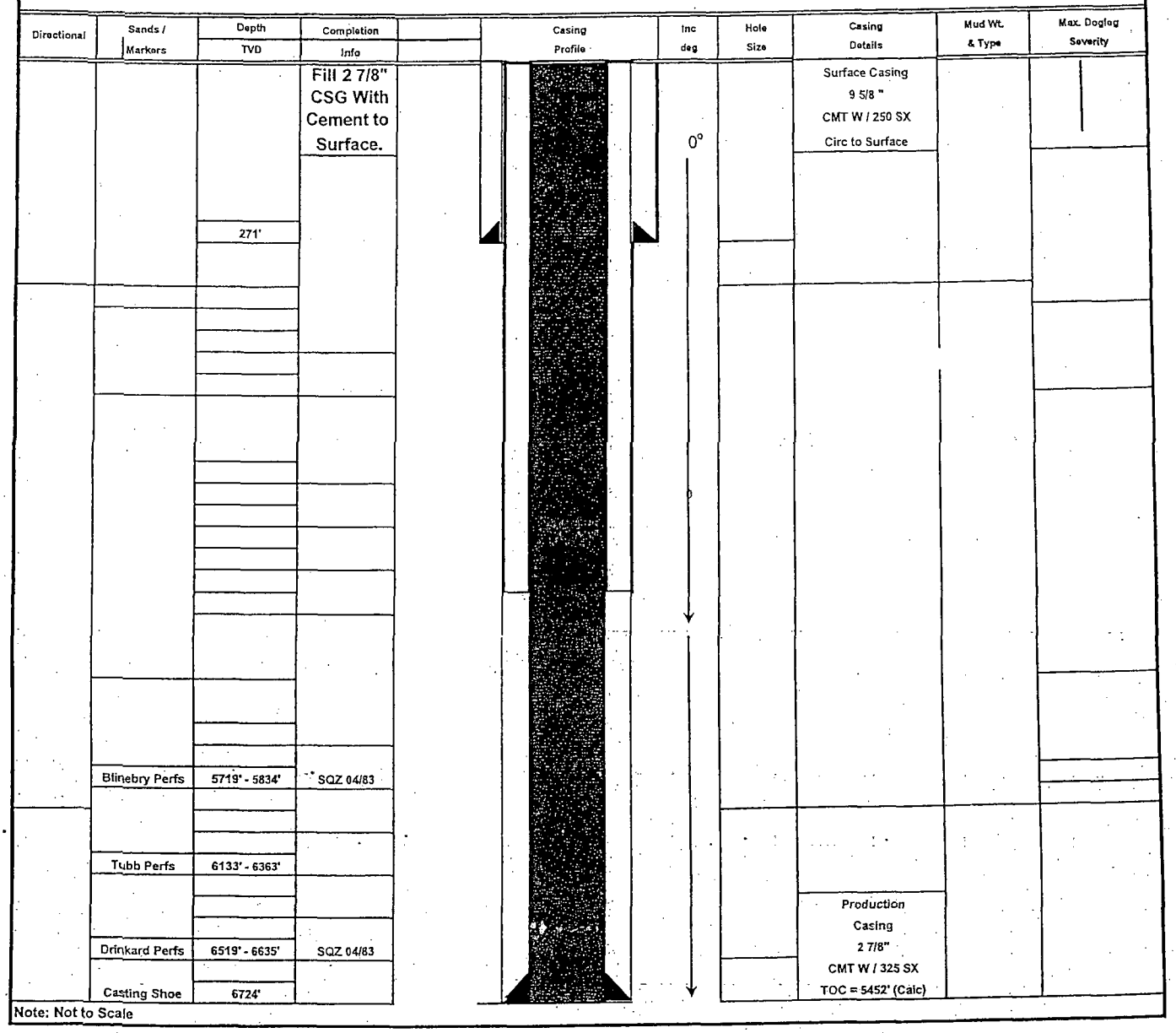
APACHE CORP.

Plug and Abandoned Well Summary

Lease: NE Drinkard Unit
Well : 205
Area: Lea
Res: Blinebry, Tubb, Drinkard

Location : 3300' FSL, 660' FSL, Sec. 3 T-21S R-37E
BHL: 3300' FSL, 660' FSL, Sec. 3 T-21S R-37E
Start Date
End Date 2/22/1996

API 30025065210000
TD 6730'
Elevation:
RKB:



Note: Not to Scale

APACHE CORP.

Plug and Abandoned Well Summary

Lease: H.T. Mattern NCT-C
Well : 12
Area: Lea
Res: Drinkard

Location : 2310' FNL, 660' FWL, Sec. 8 T-21S R-37E
BHL: 2310' FNL, 660' FWL, Sec. 8 T-21S R-37E
Start Date
End Date 11/19/2002

API 30025255470000
TD 6800'
Elevation: 3,476'
RKB:

Directional	Sands / Markers	Depth TVD	Completion Info	Casing Profile	Inc deg	Hole Size	Casing Details	Mud Wt. & Type	Max. Dogleg Severity
		0'	40 sack Cement Plug		0°		Surface Casing 8 5/8 " CMT W / 550 SX Circ to Surface		
		300'							
		354'							
		1088'							
		1400'	Cement Plug, 35 SX						
		2400'							
		2600'	Cement Plug, 25 SX						
		3200'							
		3400'	Cement Plug, 25 SX						
		5276'							
		5506'	CIBP 25 SX						
	Drinkard Perfs	6567' - 6740'					Production Casing 5 1/2" CMT W / 1600 SX CIRC TO SURFACE		
	Casting Shoe	6800'							

Note: Not to Scale

APACHE CORP.

Plug and Abandoned Well Summary

Lease: Gulf Hill
Well : 4
Area: Lea
Res: Blinebry, Drinkard, Abo

Location : 1980' FSL, 1980' FWL, Sec. 4 T-21S R-37E
BHL: 1980' FSL, 1980' FWL, Sec. 4 T-21S R-37E
Start Date
End Date 7/19/1974

API 30025127590000
TD 7450'
Elevation: 3,476'
RKB:

Directional	Sands / Markers	Depth TVD	Completion Info
		0'	10 sack Cement Plug
		279'	
		2840'	Cement Plug
		2940'	
		3633'	Cement Plug
		3733'	
		3751'	
			Cement Plug
		3951'	
		5117'	
			Cement Plug
		5717'	
	Blinebry Perfs	5717' - 5841'	
		5996'	
			Cement Plug
		6596'	
	Drinkard Perfs	(6596'-6799')	
		6420'	
			Cement Plug
		7020'	
	Abo Perfs	7020' - 7096'	
	Casting Shoe	7215'	

Casing Profile

Inc deg: 0°

Hole Size

Casing Details	Mud Wt. & Type	Max. Dogleg Severity
Surface Casing 16 " CMT W / 330 SX Circ to Surface		
Intermediate Casing 10 3/4 " CMT W / 1344 SX TOC = 400 '		
Production Casing 2 7/8" CMT W / 900 SX TOC = 3744 '		

Note: Not to Scale

40

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U.S.G.S.		
LAND OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease: State ☐ Fee ☒

5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT —" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL ☒ GAS WELL ☐ OTHER-

7. Unit Agreement Name

2. Name of Operator
Summit Energy, Inc.

8. Farm or Lease Name
Gulf Hill

3. Address of Operator
112 North First, Artesia, N.M. 88210

9. Well No.
4

4. Location of Well
UNIT LETTER S, 1980 FEET FROM THE West LINE AND 1980 FEET FROM THE South LINE, SECTION 4 TOWNSHIP 21S RANGE 37E NMPM.

10. Field and Pool, or Wildcat
Drinkard - Blinebry
Wantz Abo

15. Elevation *(Show whether DF, RT, GR, etc.)*
3476 GR

12. County
Lea

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐		COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☒
PULL OR ALTER CASING ☐	CHANGE PLANS ☐	CASING TEST AND CEMENT JOB ☐	
OTHER ☐		OTHER ☐	

17. Describe Proposed or Completed Operations *(Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work)* SEE RULE 1103.

A 600' Cement Plug was spotted over Wantz Abo Perfs, from 7020 back to 6420.

A 600' Cement Plug was spotted over Drinkard Perfs, from 6596 back to 5996.

A 600' Cement Plug was spotted over Blinebry Perfs, from 5717 back to 5117.

A 200' Cement Plug was spotted over perfs from 3951 back to 3751.

A 100' Cement Plug was spotted over 2 7/8" Tubing Stubs from 3733 back to 3633.

A 100' Cement Plug was spotted in and out of 10 3/4" casing from 2940 back to 2840.

A 10 sack cement plug was spotted on surface with dry hole marker.

Location is cleared and ready for inspection.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Paul White TITLE Division Engineer DATE 7-19-74

APPROVED BY _____ TITLE _____ DATE FEB 2 1975

CONDITIONS OF APPROVAL, IF ANY:

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Side 1

D&A

~~INJECTION~~ WELL DATA SHEET

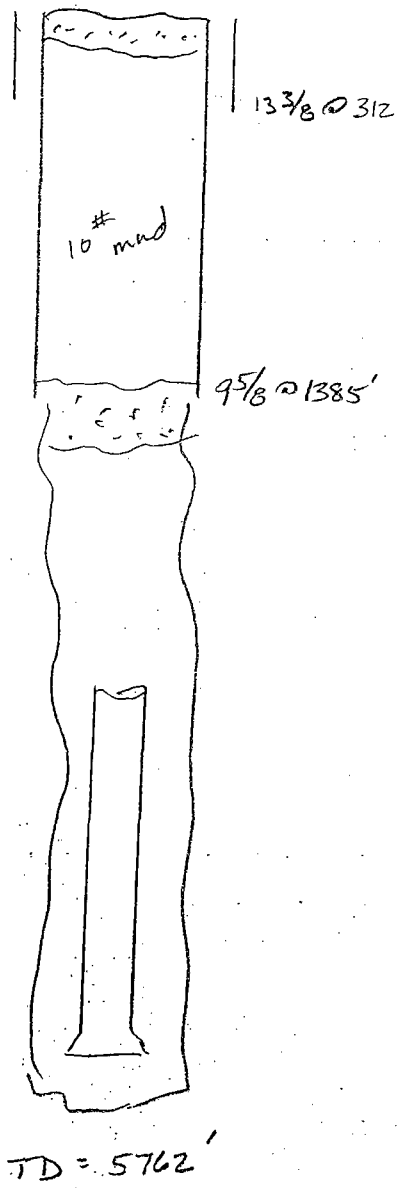
OPERATOR: Stanolind Oil

WELL NAME & NUMBER: State C Tract 12 #6

WELL LOCATION: 660 FNL, 1980 FWL C 16 21S 37E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: _____ Casing Size: 13 3/8

Cemented with: 390 sx. *or* _____ ft³

Top of Cement: Surf Method Determined: Circ

Intermediate Casing

Hole Size: _____ Casing Size: 9 5/8

Cemented with: 600 sx. *or* _____ ft³

Top of Cement: Surf Method Determined: Per plugging Rpt

Production Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. *or* _____ ft³

Top of Cement: _____ Method Determined: _____

Total Depth: _____

Injection Interval

_____ feet to _____

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: _____ Lining Material: _____

Type of Packer: _____

Packer Setting Depth: _____

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? _____Yes _____No

   If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: _____

3. Name of Field or Pool (if applicable): _____

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____

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Form C-103

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

DUPLICATE

MISCELLANEOUS REPORTS ON WELLS

RECEIVED
MAY 11 1948
HOBBS OFFICE

Sumbit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL	X		

May 3, 1948 (Date) Hobbs, New Mexico (Place)

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.
Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the Stanolind Oil & Gas Company (Company or Operator) State C Tract 12 (Lease) Well No. 6 in the NW 1/4 of Sec. 16, T. 21-S, R. 37-E, N. M. P. M., Drinkard Field, Lea County.

The dates of this work were as follows: May 2 & 3, 1948

Notice of intention to do the work was (was not) submitted on Form C-102 on May 1 19 48

and approval of the proposed plan was (was not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Plugged according to approval.
(see form C-102)

Witnessed by Thomas S. Holden (Name) Stanolind Oil & Gas Company (Company) Head Roustabout (Title)

Subscribed and sworn before me this 3rd day of May, 1948

P. Smith
Notary Public

My commission expires 2-23-50

I hereby swear or affirm that the information given above is true and correct.

Name Joseph L. Hennickson

Position FIELD SUPT.

Representing STANOLIND OIL & GAS CO.
Company or Operator

Address BOX F: HOBBS, NEW MEXICO

Remarks:

APPROVED

Date MAY 11 1948

Roy Yarbrough
Name
OIL & GAS INSPECTOR
Title

43

Form C-102

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

MISCELLANEOUS NOTICES

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF		NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL			X

Hobbs, New Mexico (Place) 5-1-48 (Date)

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the Well No. 6 in NW¼ of Sec. 16, T. 21-S, R. 37-E, N. M. P. M., Drinkard Field. Lea County.

Company or Operator Stanolind Oil & Gas Company Lease "C" Tract 12

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

This well was spudded 2-10-48 and drilled to total depth of 5762. Drill pipe was stuck and all efforts to recover it failed. We propose to plug by setting a 30-sack cement plug at bottom of 9-5/8" casing set at 1385-cemented to surface, and a 10-sack plug in top of 9-5/8". All pipe will be left in tact--the hole filled between and below plugs with 10# mud. Cellar will be filled and ground restored to conform with the natural terrain (Confirming telephone-Hendrickson to Yarbrough-5/1/48).

Approved MAY 1 1 1948, 19
except as follows:

OIL CONSERVATION COMMISSION,
By [signature]
Title GAS INSPECTOR

Stanolind Oil & Gas Company
Company or Operator
By Ralph L. Hendrickson
Position
Send communications regarding well to
Name Ralph L. Hendrickson
Address Box F; Hobbs, New Mexico

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Side 1

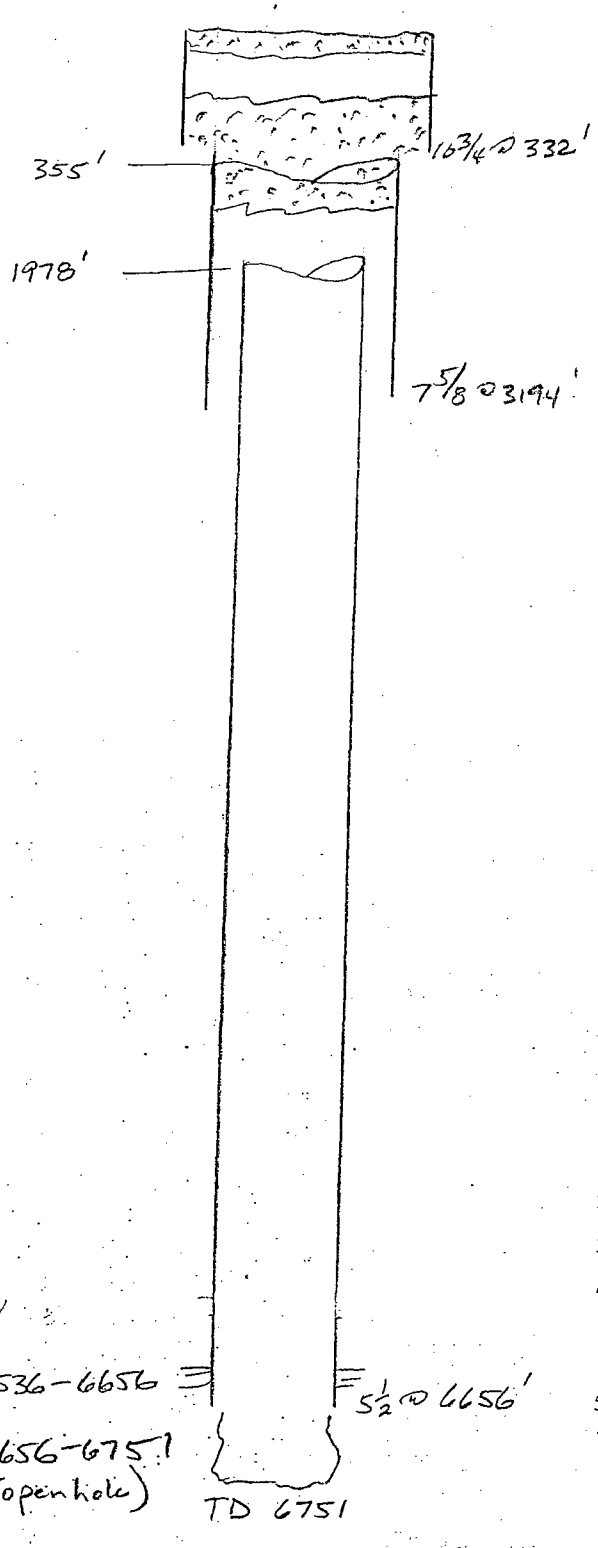
~~SECTION~~ A WELL DATA SHEET

OPERATOR: Humble Oil

WELL NAME & NUMBER: New Mexico State V #2

WELL LOCATION:	660 FSL, 1980 FWL	N	10	21S	37E
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: _____ Casing Size: 10 3/4

Cemented with: 275 sx. or _____ ft³

Top of Cement: Surf Method Determined: Circ

Intermediate Casing

Hole Size: _____ Casing Size: 7 5/8

Cemented with: 1250 sx. or _____ ft³

Top of Cement: 360 Method Determined: Plugging Rpt.

Production Casing

Hole Size: _____ Casing Size: 5 1/2

Cemented with: 575 sx. or _____ ft³

Top of Cement: 2000' Method Determined: Plugging Rpt

Total Depth: _____

Injection Interval

_____ feet to _____

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: _____ Lining Material: _____

Type of Packer: _____

Packer Setting Depth: _____

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? _____ Yes _____ No

   If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: _____

3. Name of Field or Pool (if applicable): _____

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____

45

(Form C-103)
(Revised 7/1/52)

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

RECEIVED
APR 12 1954
OIL CONSERVATION COMMISSION
HOBBS OFFICE

MISCELLANEOUS REPORTS ON WELLS

Submit this report in TRIPLICATE to the District Office, Oil Conservation Commission, within 10 days after the work specified is completed. It should be signed and filed as a report on Beginning Drilling Operations, Results of test of casing shut-off, result of plugging of well, result of well repair, and other important operations, even though the work was witnessed by an agent of the Commission. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Report by Checking Below

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF PLUGGING WELL	X	REPORT ON RECOMPLETION OPERATION		REPORT ON (Other)	

April 8, 1954 (Date) Hobbs, New Mexico (Place)

Following is a report on the work done and the results obtained under the heading noted above at the

Humble Oil & Refining Company (Company or Operator) New Mexico State V (Lease)

Gackle Drilling Company (Contractor), Well No. 2 in the SE ¼ SW ¼ of Sec. 10,

T. 21S, R. 37E, NMPM, Drinkard Pool, Lea County.

The Dates of this work were as folows: 3-18-54

Notice of intention to do the work (was) (~~was not~~) submitted on Form C-102 on 3-18-54 (Cross out incorrect words), 19....,

and approval of the proposed plan (was) (~~was not~~) obtained.

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

First Plug from 477' back to 277' with 200 sacks regular cement.
Job completed 9:00 P. M. 3-18-54.
Second Plug from 45' to surface with 40 sacks regular cement.
Job Completed 9:25 P. M. 3-18-54.

Marker placed in accordance with regulations of State of New Mexico.

Witnessed by Russell M. Lilly (Name) Humble Oil & Refining Company (Company) Asst. Dist. Superintendent (Title)

Approved: OIL CONSERVATION COMMISSION

L. G. Stanley (Name)

(Title) (Date)

I hereby certify that the information given above is true and complete to the best of my knowledge.

Name W. M. Rogers

Position District Superintendent

Representing Humble Oil & Refining Co.

Address Box 2347, Hobbs, N. M.

mob/mcb

46

(Form C-103)
(Revised 7/1/52)

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

Submit this report in TRIPLICATE to the District Office, Oil Conservation Commission, within 10 days after the work specified is completed. It should be signed and filed as a report on Beginning Drilling Operations, Results of test of casing shut-off, result of plugging of well, result of well repair, and other important operations, even though the work was witnessed by an agent of the Commission. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Report by Checking Below

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF PLUGGING WELL		REPORT ON RECOMPLETION OPERATION	x	REPORT ON (Other)	

3-13-54 (Date) Hobbs, New Mexico (Place)

Following is a report on the work done and the results obtained under the heading noted above at the

Humble Oil & Refining Company (Company or Operator) New Mexico State V (Lease)

Gackle Drilling Company (Contractor), Well No. 2 in the SE ¼ SW ¼ of Sec. 10,

T. 21S, R. 37E, NMPM., Drinkard Pool, Lea County.

The Dates of this work were as folows: Started drilling on cement 3-3-54.

Notice of intention to do the work (was) (~~xxxxx~~) submitted on Form C-102 on 2-16-54 (Cross out incorrect words), 19....,

and approval of the proposed plan (was) (~~xxxxx~~) obtained.

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Drilled junk and cement to 5056' in 10-3/4", 7-5/8" and 5-1/2" casing. Pulled out of hole to change bits, started back in hole and bit stopped at top of 7-5/8" casing at 362'. Ran impression blocks and found 7-5/8" coupling had turned over on pipe and lodged in top of casing. Attempted to mill up coupling but failed to do so; mills sidetracked casing.

Now preparing to plug and abandon.

Witnessed by M. M. Rogers (Name) Humble Oil & Refining Company (Company) District Superintendent (Title)

Approved: OIL CONSERVATION COMMISSION

L. G. Stanley (Name)

(Title) (Date)

RMG/mcb

I hereby certify that the information given above is true and complete to the best of my knowledge.

Name M. M. Rogers

Position District Superintendent

Representing Humble Oil & Refining Company

Address Box 2347, Hobbs, N. M.

47

(Form C-102)
(Revised 7/1/52)

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS NOTICES

Submit this notice in TRIPLICATE to the District Office, Oil Conservation Commission, before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Notice by Checking Below

Notice of Intention to Change Plans		Notice of Intention to Temporarily Abandon Well		Notice of Intention to Drill Bxxxx Cement Plugs	x
Notice of Intention to Plug Well		Notice of Intention to Plug Back		Notice of Intention to Set Liner	x
Notice of Intention to Squeeze		Notice of Intention to Acidize		Notice of Intention to Shoot (Nitro)	
Notice of Intention to Gun Perforate		Notice of Intention (Other)		Notice of Intention (Other) Recomplete as gas well	x

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Hobbs, New Mexico (Place) February 16, 1954 (Date) ✓

Gentlemen:

Following is a Notice of Intention to do certain work as described below at the New Mexico State V

Humble Oil & Refining Company (Company or Operator) Well No. 2 in M (Unit)

SE ¼ SW ¼ of Sec. 10, T. 21S, R. 37E, NMPM., Drinkard Pool

(40-acre Subdivision)

Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK

(FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS)

The well was plugged and abandoned in May 1949.
Objectives: The purpose of this workover is to drill out cement plugs, set a liner, and recomplete as a Tubb gas well.
Intended Procedure: It is intended to recomplete the well according to the following procedure: (1) move in and rig up light power rotary rig, (2) drill out cement to top of 5-1/2-inch casing with a 6-3/4-inch bit, (3) pull bit and run 4-3/4-inch bit with casing scraper and drill out bridging plugs and cement to 6370 feet, (4) set a cast iron bridging plug on bottom at 6370 feet with 10 foot cement on top, (5) run a 4-inch OD T&C liner to 5400' and cement to surface; (6) drill plug and spot oil or fresh water from 5600 feet to bottom and pull out of hole, (7) perforate casing from 6290 to 6340 feet, (8) run tubing and swab and test, (9) treat with 500 gallons of mud acid and 3000 gallons of low tension acid, (10) swab acid load and place on production.

Approved ..... 19.....
Except as follows:

Humble Oil & Refining Company
Company or Operator

By M M Morgan

Position District Superintendent
Send Communications regarding well to:

Name Humble Oil & Refining Co.

Address Box 2347, Hobbs, N. M.

Approved
OIL CONSERVATION COMMISSION

By A. L. Stanley

Title

ecb/mcb

48

Form C-103

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

RECEIVED
MAY 26 1949
HOBBS OFFICE

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL	X		

May 23, 1949 ✓ (Date) Midland, Texas (Place)

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO
Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the

Humble Oil & Refining Co. (Company or Operator) N. M. State "V" (Lease) Well No. 2 in the SE/4 of NE/4 of Sec. 10, T. 21-S, R. 37-E, N. M. P. M., Drinkard Field, Lea County.

The dates of this work were as follows: 5-13-49 to 5-16-49

Notice of intention to do the work was (~~not~~) submitted on Form C-102 on 5-13 19 49

and approval of the proposed plan was (~~not~~) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Original total depth 6751'. Plug back depth 3900'. Spotted cement plug of 50 sacks from 3900' to 3700', 50 sacks from 2000' to 1800' and 400' cement plug to surface. Intervals between plugs filled with mud laden fluid. Recovered 1977.80' of 5-1/2" casing and 354.90' of 7-5/8" casing. Well plugged and abandoned. Regulation marker installed.

Witnessed by _____ (Name) _____ (Company) _____ (Title)

Subscribed and sworn before me this 24 day of May 1949

Alma D. Rohman
ALMA D. ROBERSON, Notary Public

My commission expires 6-1-49

I hereby swear or affirm that the information given above is true and correct.

Name J. Pinkerman

Position Asst. Div. Superintendent

Representing Humble Oil & Refining Company
Company or Operator

Address Box 1600, Midland, Texas

Remarks:

APPROVED
MAY 2

Roy Yarbrough
Name
Oil & Gas Inspector
Title

49

ITEM VII OF NEW MEXICO OCD FORM C-108
DATA ON PROPOSED OPERATIONS
EAST BLINEBRY DRINKARD UNIT

1) Proposed average initial injection rate is 12,225 bwpd.
Maximum injection rate should not exceed 15,000 bwpd.

2) The injection system will be operated as a closed system.

3) Proposed average initial injection pressure is 1120 psi (0.2 psi/ft).
Proposed maximum pressure will not exceed the pressure limitations ordered by the Division. Apache Corp will perform step rate tests and anticipates securing a maximum injection pressure of 1375 psi (same as the Northeast Drinkard Unit).

4) Source water will come from the San Andres Formation.

5) Not Applicable.

ITEM VIII OF NEW MEXICO OCD FORM C-108
GEOLOGIC DATA ON THE INJECTION ZONE & UNDERGROUND DRINKING WATER
EAST BLINEBRY DRINKARD UNIT

The Formations being targeted for water injection are the Blinebry, Tubb and Drinkard at depths ranging from approximately 5550' to 6800'. These formations are Leonardian in age and are a sequence of shallow marine carbonates, which have for the most part been dolomatized. A five percent porosity cut off is used to determine "pay" as porosity less than this is considered non-productive at the existing and proposed reservoir pressures and reservoir fluid regimes. Net pay isopach maps show the areal extent of the targeted reservoir. The vertical extent of the reservoir is limited top and bottom by impermeable shales and carbonates. All injected fluids should remain in the reservoir with the exception of cycling to the surface through wellbores.

Based on communications with the New Mexico States Engineer's Roswell office and a review of online files there are 7 fresh water wells (see attached) in the area of review. The deepest of these wells is 163'. Which is the assumed base of fresh water. All wellbores involved with the proposed injection program are constructed to not allow injection water into this fresh water source.

ITEMS IX THROUGH XII OF NEW MEXICO OCD FORM C-108
EAST BLINEBRY DRINKARD UNIT

IX All of the current wellbores proposed for unitization have an existing fracture stimulation. Any new wells drilled subsequent to unitization will also be treated with a fracture stimulation, and it is assumed that all of the wellbores will be treated with acid at least once during the life of the waterflood.

X All logging and test data for the existing wellbores already exists on file with the State of New Mexico Oil Conservation Division and will not be resubmitted with this application.

XI It appears the only strata within one mile of our proposed unit which contains water of possible drinking quality is confined to 163' and shallower. No contamination of this drinking water should occur as all existing wellbores which penetrate the Blinebry, Tubb and Drinkard are constructed as to not allow injection water to escape the system.

XII After reviewing the geology in a one and one-half mile radius around the proposed waterflood area there appears no evidence of fractures or any hydrologic connection between the zone of injection and any overlying or underlying strata.

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 21S Range: 37E Sections: 3,4,5,8,9,10,15,16,17,20,21,22

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ○ Non-Domestic ○ Domestic ◉ All

POD / Surface Data Report | Avg Depth to Water Report | Water Column Report

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POD / SURFACE DATA REPORT 08/14/2007

(acre ft per annum) (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest

DB File Nbr	Use	Diversion	Owner	POD Number	Source	Tws	Rng	Sec	q	q	q
CP 00063	DOM	0	RIGHT REVEREND SIDNEY MEIZGER	CP 00063 EXP		21S	37E	17	1	2	2
CP 00251	IND	48	VERSADO GAS PROCESSORS LLC	CP 00251		21S	37E	22	4	3	2
CP 00252	IND	40	VERSADO GAS PROCESSORS, LLC	CP 00252		21S	37E	22	4	2	4
CP 00552	STK	3	MILLARD DECK	CP 00552		21S	37E	04	4	2	
CP 00553	STK	3	MILLARD DECK	CP 00553		21S	37E	04	4	2	
CP 00554	STK	3	MILLARD DECK	CP 00554	Shallow	21S	37E	16	2	2	
CP 00881	DOM	3	RICHARD DON JONES	CP 00881	Shallow	21S	37E	22	4	4	3
CP 00895	DOM	3	JOE R. SIMS	CP 00895	Shallow	21S	37E	20	1	1	

Record Count: 8

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New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 21S Range: 37E Sections: 3,4,5,8,9,10,15,16,17,20,21,22

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ○ Non-Domestic ○ Domestic ◉ All

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WATER COLUMN REPORT 08/14/2007

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	Depth Well	Depth Water	Water Column (in feet)
CP 00552	21S	37E	04	4	2					90	75	15
CP 00553	21S	37E	04	4	2					90	75	15
CP 00554	21S	37E	16	2	2					80	70	10
CP 00895	21S	37E	20	1	1					163		
CP 00252	21S	37E	22	4	2	4				106		
CP 00251	21S	37E	22	4	3	2				103		
CP 00881	21S	37E	22	4	4	3				95	53	42

Record Count: 7

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