DATE	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
4/13/01	4/30/01	DC	KW	WFX	11063 8432

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONVERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSP-Non-Standard Location] [NSL-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS-Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

RECEIVED
APR 13 2001
DIVISION

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☑ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☑ Offset Operators, Leaseholders or Surface Owner

[C] ☑ Application if One Which Requires Published Legal Notice

[D] ☑ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☑ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] **INFORMATION / DATA SUBMITTED IS COMPLETE** - Certification

I hereby certify that I, or personnel under my supervision, have reviewed the applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common.

I understand that any omission of data (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Lee R. White	Lee R. White 4/12/01	Engineering Manager	4/12/01
Print or Type Name	Signature	Title	Date

Lee.White@Apachecorp.com
e-mail Address

2000 POST OAK BOULEVARD / SUITE 100 / HOUSTON, TEXAS 77056-4400

CORPORATION

WWW.APACHECORP.COM
(713) 296-6000

April 12, 2001

State of New Mexico
Energy, Minerals & Natural Resources Dept.
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Expansion of Waterflood Project
Northeast Drinkard Unit
Well No. 102, 103, 106, 112, 122, 123, 204, 207, 223
304, 305, 306, 310, 311, 404, 410
Eunice N., Blinebry-Tubb-Drinkard
Lea County, New Mexico

Apache Corporation is proposing an expansion of the previous authority, Division Order No. R-8541, to add additional water injection wells to the above referenced lease.

To support this request we have attached the following:

1) OCD Form C-108 with attachments

2) Maps with surveys which include:
   A) Unit Map with location of all wells within one-half mile radius of proposed injection wells
   B) Individual maps for each proposed injection well with location of all wells and leases within a two mile and one-half mile radius (note: wells in red are proposed infill producers not yet drilled)

3) Injection Well Data Sheet for each proposed injector

4) A Publishing Affidavit and copy of legal notice

5) List of Surface Owners and Offset Operators with Certified Mail Receipt numbers indicated and copy of letter sent

6) Tabulation of Data on wells located within the Area of Review

7) Wellbore Diagrams for all wells P&A'd in the Area of Review

Please contact me at 713-296-6338 if you need additional information or have any questions regarding this application. Thank you.

Sincerely,

APACHE CORPORATION

Debra J. Anderson
Sr. Engineering Technician

Attachments

cc: Mr. Chris Williams
Oil Conservation Division
District I
P O Box 1980
Hobbs, New Mexico 88241

State of New Mexico
Office of Land Commissioner
P O Box 1148
Santa Fe, New Mexico 87504

Bureau of Land Management
2909 West 2nd Street
Roswell, New Mexico 88201

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DRIVE
SANTA FE, NEW MEXICO 87505

Form C-108
Revised 4-1-98

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. OPERATOR: **Apache Corporation**
ADDRESS: **2000 Post Oak Blvd., Ste. 100, Houston, Texas 77056-4400**
CONTACT PARTY: **Debra Anderson** PHONE: **713-296-6338**

III. WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project: ☑ Yes ☐ No
If yes, give the Division order number authorizing the project **R-8541**

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half radius circle drawn around each proposed injection well. This circle identifies the wells area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, 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) overlaying 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: Debra J. Anderson TITLE: Sr. Engineering Technician

SIGNATURE:  DATE: 4/12/01

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal:
Hearing 9/24/87, Case No. 9232, Order No. 8541 & Supplemental Application 06/26/95

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

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall inc ude:

(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 whic1 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 when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

(1) The name, address, phone number, and contact party for the applicant;

(2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;

(3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505 within 15 days.

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

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

ATTACHMENT FOR FORM C-108
NORTHEAST DRINKARD UNIT
MISCELLANEOUS DATA

III. WELL DATA

B. (5)	Next higher oil zone	Paddock @ +/- 5200'
	Next lower oil zone	Abo @ +/- 6750'

VII. PROPOSED OPERATION

1.	Average Injection Rate	1000 BWPD
	Maximum Injection Rate	2000 BWPD
2.	Closed Injection System	
3.	Average Injection Pressure	1100 psi
	Maximum Injection Pressure	1300 psi (approximate) (will not exceed 0.2 psi/ft to top perforation)
4.	Source Water	San Andres Analysis Attached Blinebry-Tubb-Drinkard Produced

IX. STIMULATION PROGRAM

Acid treatment schedule will be determined following evaluation of GR/CNL/CCL (to be run prior to perforating the unitized interval)

XI. There are no Fresh Water Wells

UNICHEM

A Division of BJ Services Company

Lab Test No . 23748

Apache

Sample Date : 3/10/99

Water Analysis

Listed below please find water analysis report from : NEDU #919-S

Specific Gravity :	1.009
Total Dissolved Solids :	13273
pH :	6.49
Conductivity (µmhos):	
Ionic Strength :	0.265

Cations:		mg/l
Calcium	(Ca++):	608
Magnesium	(Mg++):	244
Sodium	(Na+):	3909
Iron	(Fe++):	0.00
Dissolved Iron	(Fe++):	
Barium	(Ba++):	0.38
Strontium	(Sr):	19
Manganese	(Mn++):	0.01
Resistivity :		

Anions:		
Bicarbonate	(HCO3-):	562
Carbonate	(CO3--):	
Hydroxide	(OH-):	0
Sulfate	(SO4--):	1750
Chloride	(Cl-):	6200

Gases:		ppm		
Carbon Dioxide	(CO2):	80.00	Oxygen	(O2):
Hydrogen Sulfide	(H2S):	408.00		

Scale Index (positive value indicates scale tendency) a blank indicates some tests were not run

Temperature		CaCO3 SI	CaSO4 SI
86F	30.0C	-0.14	-17.28
104F	40.0C	0.09	-17.28
122F	50.0C	0.35	-17.28
140F	60.0C	0.57	-16.80
168F	70.0C	0.87	-15.02
176F	80.0C	1.20	-15.51

Comments :

cc: Jerry White
Jay Brown

P.O. Box 61427 • Midland, TX 79711 • 4312 S. County Rd. 1298, Midland, TX 79765
Office: (915) 563-0241 • Fax: (915) 563 0243

30-025-06400

OPERATOR **Apache Corporation** LEASE **Northeast Drinkard Unit (formerly Taylor Glenn # 7)**

WELL NO.	FOOTAGE LOCATION	UNIT	SECTION	TOWNSHIP	RANGE
102	**1582' FNL & 990' FEL**	**H**	**4**	**21S**	**37E**

Well Construction Data

Surface Casing
Size **13-3/8** Cemented with **350 sx**
TOC **Surface** feet determined by **Circulation**
Hole Size **17**

Intermediate Casing
Size **8-5/8** Cemented with **1400 sx**
TOC **Surface** feet determined by **Circulation**
Hole Size **11**

Long String
Size **5-1/2** Cemented with **700 sx**
TOC **2270** feet determined by **Calculated**
Hole Size **7-7/8**

Total Depth **5935**

Injection Interval
5670 feet to **5935** feet **Perforated**
(perforated or open-hole; indicate which)

Tubing Size **2-3/8** lined with **IPC** (type of internal coating) set in a **5-1/2" Baker Lok-Set** packer at **5570** feet

Other type of tubing / casing seal if applicable **N/A**

Other Data

1. Is this a new well drilled for injection? ☐ Yes ☑ No
   If no, for what purpose was the well originally drilled? **Blinebry Producer**

2. Name of the Injection formation **Blinebry-Tubb-Drinkard**

3. Name of Field or Pool (if applicable) **Eunice N., Blinebry-Tubb-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. **Blinebry** 5682 - 5862 / Cement squeezed w/ 200 sx

5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area.
   See C-108 Attachment

Well: Northeast Drinkard Unit # 102

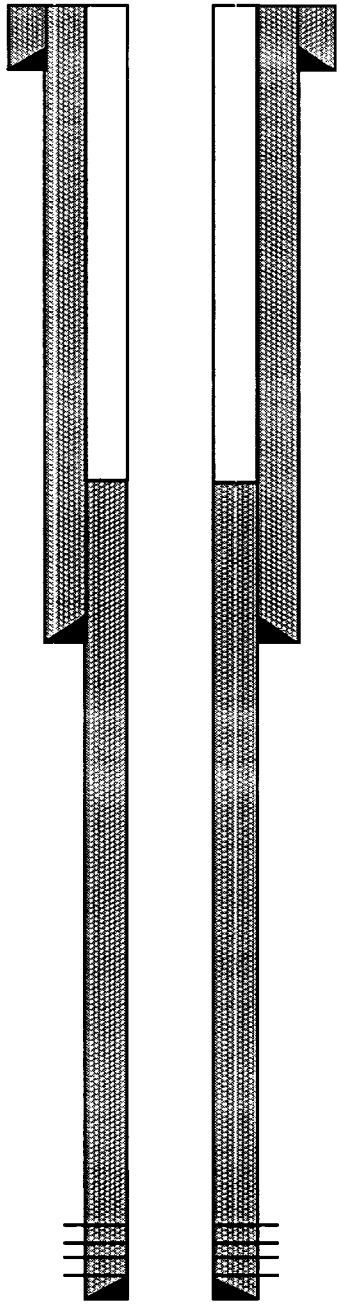
Field: Eunice N. Blinebry-Tubb-Drinkard

Current Status: Active Oil

Location: 1582' FNL & 990' FEL
Unit H, Sec. 4, T21S, R37E
Lea County, New Mexico

API #: 30-025-06400

Elevation: 3473' (GR)



17" Hole
13-3/8" 48# H-40 CSA 306'
Cement w / 350 sx
Circulated to Surface

11" Hole
8-5/8" 32# J-55 CSA 3150'
Cement w / 1400 sx
Circulated to Surface

Blinebry Perfs:
5682 - 5862 (174 Holes)
Cement squeezed w/ 200 sx
5723 - 5931 (28 Holes)

7-7/8" Hole
5-1/2" 15.5# J-55 CSA 5935'
Cement w / 150 sx
5800' - Cement squeeze w/ 100 sx
4800' - Cement squeeze w/ 450 sx
TOC @ 2270' (Calculated)

TD @ 5935'

NORTHEAST DRINKARD UNIT

20S 37E

21S 37E

RADIUS 10560'

RADIUS 2640'

31 32 33 34

5 4 3 2

8 9 10 11

- OIL PRODUCER
- GAS PRODUCER
- WATER INJECTION
- SALT WATER SOURCE
- DRY HOLE

N

0 1320 2640 5280 FT.

0 1000 2000 3000 4000 5000 FT.

SCALE

Apache CORPORATION
SOUTHERN REGION

NEDU AREA
LEA COUNTY, NEW MEXICO

CONVERSIONS
Injection Well Permitting
Well #: 102

DATE: 11/29/2000	REVISED: 00\00\00	GEOL : B. USZYNSKI
J:\PER\NEDU\INJ102.DWG	DRAFTED BY: HGS	LANDMAN: M. MORENO

30-025-09897

OPERATOR **Apache Corporation** LEASE **Northeast Drinkard Unit (formerly Hawk B-3 #17)**

WELL NO.	FOOTAGE LOCATION	UNIT	SECTION	TOWNSHIP	RANGE
103	**660' FNL & 660' FWL**	**D**	**3**	**21S**	**37E**

Well Construction Data

Surface Casing
Size **10-3/4** Cemented with **250 sx**
TOC **Surface** feet determined by **Circulation**
Hole Size **13-3/4**

Intermediate Casing
Size **7-5/8** Cemented with **1500 sx**
TOC **1525** feet determined by **Temp Survey**
Hole Size **9-7/8**

Long String
Size **5-1/2** Cemented with **350 sx**
TOC **3035** feet determined by **Temp Survey**
Hole Size **6-3/4**

Total Depth **6010**

Injection Interval
5700 feet to **6010** feet **Perforated**
(perforated or open-hole; indicate which)

Tubing Size **2-3/8** lined with **IPC** (type of internal coating) set in a **5-1/2" Baker Lok-Set** packer at **5600** feet

Other type of tubing / casing seal if applicable **N/A**

Other Data

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

   If no, for what purpose was the well originally drilled? **Blinebry Producer**

2. Name of the Injection formation **Blinebry-Tubb-Drinkard**

3. Name of Field or Pool (if applicable) **Eunice N., Blinebry-Tubb-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. **Blinebry** 5750 - 5806 / Cement squeezed w/ 75 sx

5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area.
   See C-108 Attachment

Well: Northeast Drinkard Unit # 103

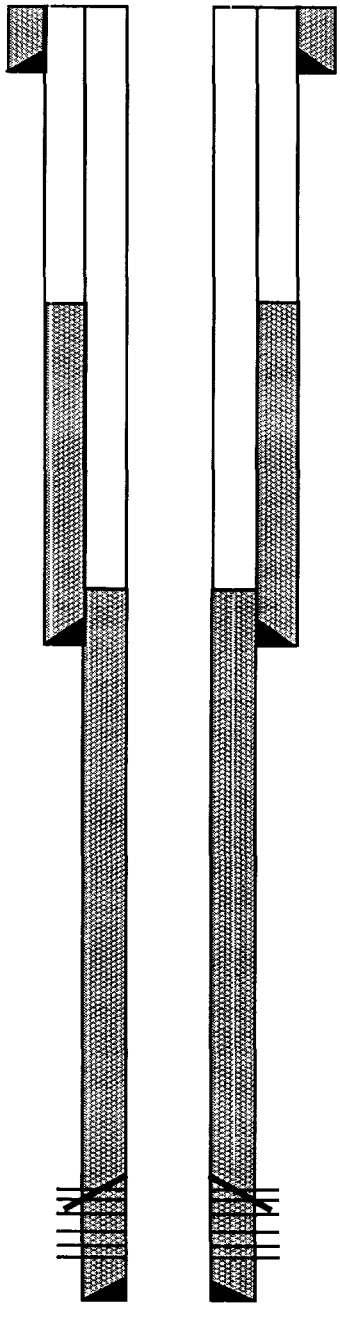
Field: Eunice N. Blinebry-Tubb-Drinkard

Current Status: Active Oil

Location: 660' FNL & 660' FWL
Unit D, Sec. 3, T21S, R37E
Lea County, New Mexico

API #: 30-025-09897

Elevation: 3483' (GR)



13-3/4" Hole
10-3/4" 33# H-40 CSA 260'
Cement w / 250 sx
Circulated to Surface

9-7/8" Hole
7-5/8" 24# H-40 CSA 3154'
Cement w / 1500 sx
TOC @ 1525' (TS)

Blinebry Perfs:
5750 - 5806 (288 Holes)
Cement squeezed w/ 75 sx
5854 - 5966 (312 Holes)

6-3/4" Hole
5-1/2" 14/15.5# J-55 CSA 6010'
Cement w / 350 sx
TOC @ 3035' (TS)

TD @ 6010'

NORTHEAST DRINKARD UNIT

RADIUS 2640'

RADIUS 10560'

20S 37E

21S 37E

31 32 33 34

5 4 3 2

8 9 10 11

- OIL PRODUCER
- GAS PRODUCER
- WATER INJECTION
- SALT WATER SOURCE
- DRY HOLE

N

0 1320 2640 5280 FT.

0 1000 2000 3000 4000 5000 FT.

SCALE

Apache CORPORATION
SOUTHERN REGION

NEDU AREA
LEA COUNTY, NEW MEXICO

CONVERSIONS
Injection Well Permitting
Well #: 103

DATE: 11/29/2000	REVISED: 00\00\00	GEOL : B. USZYNSKI
J:\PER\NEDU\INJ103.DWG	DRAFTED BY: HGS	LANDMAN: M. MORENO

30-025-06410

OPERATOR **Apache Corporation** LEASE **Northeast Drinkard Unit (formerly Hawk B-3 #16)**

WELL NO.	FOOTAGE LOCATION	UNIT	SECTION	TOWNSHIP	RANGE
106	**660' FNL & 1980' FWL**	**C**	**3**	**21S**	**37E**

Well Construction Data

Surface Casing
Size **10-3/4** Cemented with **250 sx**
TOC **Surface** feet determined by **Circulation**
Hole Size **13-3/4**

Intermediate Casing
Size **7-5/8** Cemented with **900 sx**
TOC **1740** feet determined by **Temp Survey**
Hole Size **9-7/8**

Long String
Size **5-1/2** Cemented with **500 sx**
TOC **2903** feet determined by **Temp Survey**
Hole Size **6-3/4**

Total Depth **6920**

Injection Interval
5700 feet to **6920** feet **Perforated**
(perforated or open-hole; indicate which)

Tubing Size **2-3/8** lined with **IPC** (type of internal coating) set in a **5-1/2" Baker Lok-Set** packer at **5600** feet

Other type of tubing / casing seal if applicable **N/A**

Other Data

1. Is this a new well drilled for injection? ☐ Yes ☑ No
   If no, for what purpose was the well originally drilled? **Tubb Producer**
2. Name of the Injection formation **Blinebry-Tubb-Drinkard**
3. Name of Field or Pool (if applicable) **Eunice N., Blinebry-Tubb-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. **Blinebry** 5770 - 5956 / Cement squeezed w/ 150 sx / **Tubb** 6343 - 6406 / Cement squeezed w/ 200 sx
5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area.
   See C-108 Attachment

Well: Northeast Drinkard Unit # 106

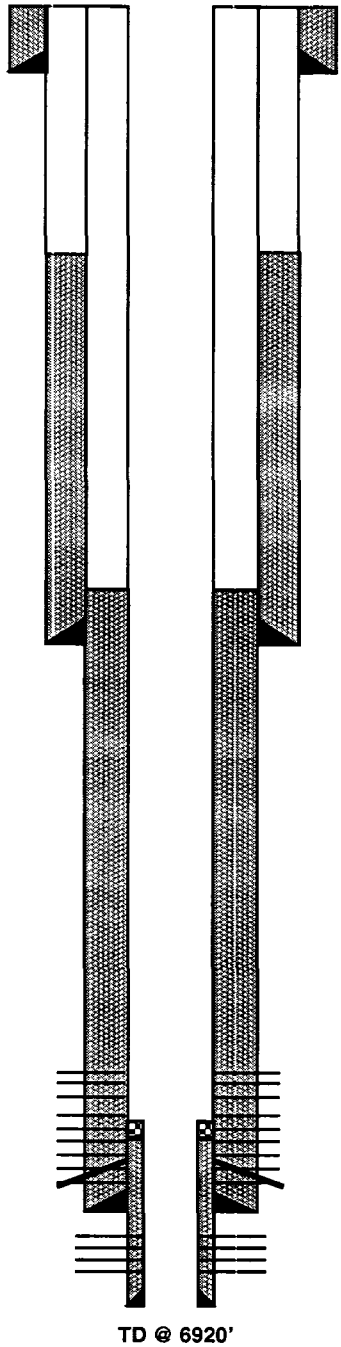
Field: Eunice N. Blinebry-Tubb-Drinkard

Current Status: Active Oil

Location: 660' FNL & 1980' FWL
Unit C, Sec. 3, T21S, R37E
Lea County, New Mexico

API #: 30-025-06410

Elevation: 3487' (GR)



13-3/4" Hole
10-3/4" 33# H-40 CSA 260'
Cement w / 250 sx
Circulated to Surface

9-7/8" Hole
7-5/8" 24# H-40 CSA 3049'
Cement w / 900 sx
TOC @ 1740' (TS)

Blinebry Perfs:
5770 - 5956 (529 Holes)
Cement squeezed w/ 150 sx
5732 - 6163 (272 Holes)

Tubb Perfs:
6343 - 6406 (140 Holes)
Cement squeezed w/ 200 sx
6174 - 6269 (15 Holes)

Drinkard Perfs:
6587 - 6846 (25 Holes)

TD @ 6920'

6-3/4" Hole
5-1/2" 14/15.5# J-55 CSA 6479'
Cement w / 500 sx
TOC @ 2903' (TS)

4-3/4" Hole
4" 10.5# J-55 LSA 6920'
Cement w / 35 sx
TOC @ 6237' (Top of Liner)

NORTHEAST DRINKARD UNIT

RADIUS 10560'

RADIUS 2640'

20S 37E

21S 37E

31 32 33 34 35

5 4 3 2 1

8 9 10 11

- OIL PRODUCER
- GAS PRODUCER
- WATER INJECTION
- SALT WATER SOURCE
- DRY HOLE

N

0 1320 2640 5280 FT.

0 1000 2000 3000 4000 5000 FT.

SCALE

Apache CORPORATION
SOUTHERN REGION

NEDU AREA
LEA COUNTY, NEW MEXICO

CONVERSIONS
Injection Well Permitting
Well #: 106

DATE: 11/29/2000	REVISED: 00\00\00	GEOL : B. USZYNSKI
J:\PER\NEDU\INJ106.DWG	DRAFTED BY: HGS	LANDMAN: M. MORENO

Well: Northeast Drinkard Unit # 112

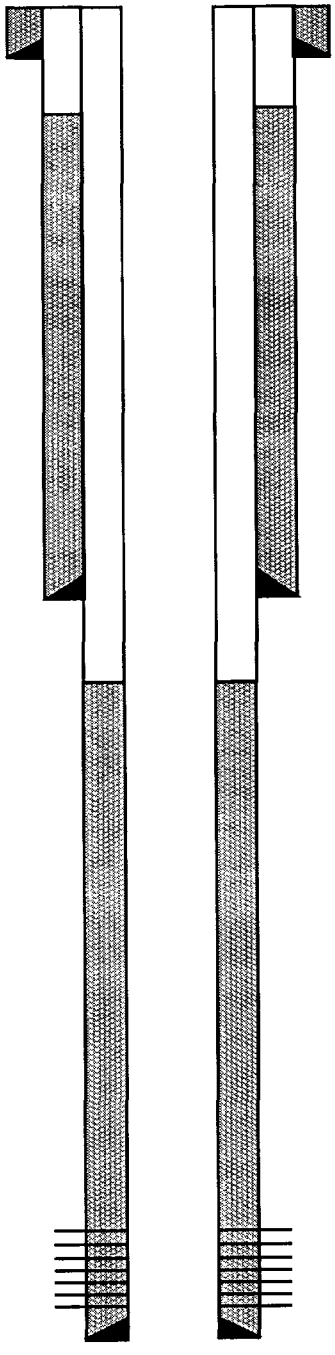
Field: Eunice N. Blinebry-Tubb-Drinkard

Current Status: Active Oil

Location: 660' FNL & 660' FEL
Unit A, Sec. 3, T21S, R37E
Lea County, New Mexico

API #: 30-025-06509

Elevation: 3503' (GR)



15" Hole
10-3/4" 33# H-40 CSA 290'
Cement w / 300 sx
Circulated to Surface

9-7/8" Hole
7-5/8" 24# H-40 CSA 3038'
Cement w / 1150 sx
TOC @ 650' (TS)

Blinebry Perfs:
5726 - 5982 (564 Holes)

6-3/4" Hole
5-1/2" 14/15.5# J-55 CSA 6019'
Cement w / 310 sx
TOC @ 3650' (TS)

TD @ 6020'

30-025-06509

OPERATOR **Apache Corporation** LEASE **Northeast Drinkard Unit (formerly Hawk B-3 #14)**

WELL NO.	FOOTAGE LOCATION	UNIT	SECTION	TOWNSHIP	RANGE
112	**660' FNL & 660' FEL**	**A**	**3**	**21S**	**37E**

Well Construction Data

Surface Casing

Size **10-3/4** Cemented with **300 sx**

TOC **Surface** feet determined by **Circulation**

Hole Size **15**

Intermediate Casing

Size **7-5/8** Cemented with **1150 sx**

TOC **650** feet determined by **Temp Survey**

Hole Size **9-7/8**

Long String

Size **5-1/2** Cementec with **310 sx**

TOC **3650** feet determined by **Temp Survey**

Hole Size **6-3/4**

Total Depth **6020**

Injection Interval

5700 feet to **6020** feet **Perforated**

(perforated or open-hole; indicate which)

Tubing Size **2-3/8** lined with **IPC** set in a

(type of internal coating)

5-1/2" Baker Lok-Set packer at **5600** feet

Other type of tubing / casing seal if applicable **N/A**

Other Data

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

   If no, for what purpose was the well originally drilled? **Blinebry Producer**

2. Name of the Injection formation **Blinebry-Tubb-Drinkard**

3. Name of Field or Pool (if applicable) **Eunice N., Blinebry-Tubb-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. **N/A**

5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area.
   See C-108 Attachment

20S 37E

21S 37E

RADIUS 10560'

RADIUS 2640'

NORTHEAST DRINKARD UNIT

- OIL PRODUCER
- GAS PRODUCER
- WATER INJECTION
- SALT WATER SOURCE
- DRY HOLE

N

0 1320 2640 5280 FT.

0 1000 2000 3000 4000 5000 FT.

SCALE

Apache CORPORATION
SOUTHERN REGION

NEDU AREA
LEA COUNTY, NEW MEXICO

CONVERSIONS
Injection Well Permitting
Well # : 112

DATE: 11/29/2000	REVISED: 00\00\00	GEOL : B. USZYNSKI
J:\PER\NEDU\INJ112.DWG	DRAFTED BY: HGS	LANDMAN: M. MORENO

30-025-06364

OPERATOR **Apache Corporation** LEASE **Northeast Drinkard Unit (formerly Harry Leonard # 17)**

WELL NO. **122** **897' FNL & 990' FEL** **A** **2** **21S** **37E**

FOOTAGE LOCATION UNIT SECTION TOWNSHIP RANGE

Well Construction Data

Surface Casing
Size **13-3/8** Cemented with **375 sx**
TOC **Surface** feet determined by **Circulation**
Hole Size **17-1/2**

Intermediate Casing
Size **8-5/8** Cemented with **1700 sx**
TOC **Surface** feet determined by **Circulation**
Hole Size **11**

Long String
Size **5-1/2** Cemented with **750 sx**
TOC **2156** feet determined by **Temp Survey**
Hole Size **7-7/8**
Total Depth **7554**

Liner
Size **4** Cemented with **135 sx**
TOC **5536** feet determined by **Liner Top**
Hole Size **4-3/4**

Injection Interval
5850 feet to **7015** feet **Perforated**
(perforated or open-hole; indicate which)

Tubing Size **2-3/8** lined with **IPC** set in a
(type of internal coating)
4" Baker Lok-Set packer at **5750** feet

Other type of tubing / casing seal if applicable **N/A**

Other Data

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

   If no, for what purpose was the well originally drilled? **Blinebry Producer**

2. Name of the Injection formation **Blinebry-Tubb-Drinkard**

3. Name of Field or Pool (if applicable) **Eunice N., Blinebry-Tubb-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. **Blinebry** 5924 - 5980 Open Hole / P&A'd behind 4" Liner from 5536 - 7554 / **Abo** 7062 - 7507 - **CIBP @ 7050'** w/ 35' cement

5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area.
   See C-108 Attachment

Well: Northeast Drinkard Unit # 122

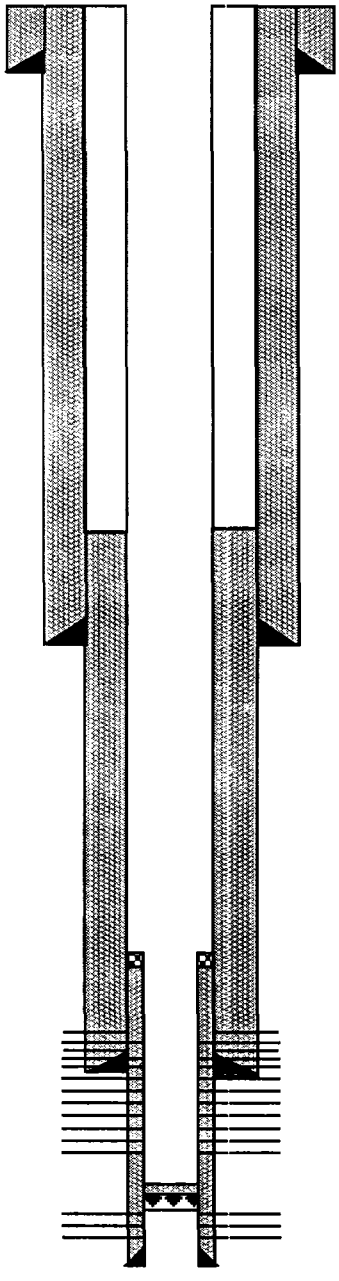
Field: Eunice N. Blinebry-Tubb-Drinkard

Current Status: Active Oil

Location: 897' FNL & 990' FEL
Unit A, Sec. 2, T21S, R37E
Lea County, New Mexico

API #: 30-025-06364

Elevation: 3521' (GR)



17-1/2" Hole
13-3/8" 48# H-40 CSA 327'
Cement w / 375 sx
Circulated to Surface

11" Hole
8-5/8" 24/32# H-40/J-55 CSA 3098'
Cement w / 1700 sx
Circulated to Surface

Blinebry Perfs:
5856 - 5904 (4 Holes)
Open Hole: 5924 - 5980
Cement squeezed behind 4" Liner
5878 - 6340 (52 Holes)

Tubb Perfs:
6343 - 6751 (37 Holes)

Drinkard Perfs:
6809 - 7012 (29 Holes)

CIBP @ 7050' w/ 35' cement

Abo Perfs:
7062 - 7507 (21 Holes)

7-7/8" Hole
5-1/2" 14/15.5# J-55 CSA 5924'
Cement w / 750 sx
TOC @ 2156' (TS)

4-3/4" Hole
4" 13.4# K-55 LSA 7554'
Cement w / 135 sx
TOC @ 5536' (Top of Liner)

TD @ 7554'

20S 37E

21S 37E

RADIUS 10560'

RADIUS 2640'

NORTHEAST DRINKARD UNIT

NEDU AREA
LEA COUNTY, NEW MEXICO

CONVERSIONS
Injection Well Permitting
Well #: 122

- OIL PRODUCER
- GAS PRODUCER
- WATER INJECTION
- SALT WATER SOURCE
- DRY HOLE

N

0 1320 2640 5280 FT.

0 1000 2000 3000 4000 5000 FT.

SCALE

Apache CORPORATION SOUTHERN REGION

DATE: 11/29/2000	REVISED: 00\00\00	GEOL : B. USZYNSKI
J:\PER\NEDU\INJ122.DWG	DRAFTED BY: HGS	LANDMAN: M. MORENO

30-025-06360

OPERATOR **Apache Corporation** LEASE **Northeast Drinkard Unit (formerly Harry Leonard #16)**

WELL NO. **123** **2217' FNL & 989' FEL** **H** **2** **21S** **37E**

FOOTAGE LOCATION | UNIT | SECTION | TOWNSHIP | RANGE

Well Construction Data

Surface Casing
Size **13-3/8** Cemented with **375 sx**
TOC **Surface** feet determined by **Circulation**
Hole Size **17-1/2**

Intermediate Casing
Size **8-5/8** Cemented with **1800 sx**
TOC **47** feet determined by **Temp Survey**
Hole Size **11**

Long String
Size **5-1/2** Cemented with **775 sx**
TOC **61** feet determined by **Temp Survey**
Hole Size **7-7/8**
Total Depth **7569**

Liner
Size **4** Cemented with **135 sx**
TOC **5552** feet determined by **Liner Top**
Hole Size **4-3/4**

Injection Interval
5830 feet to **7065** feet **Perforated**
(perforated or open-hole; indicate which)

Tubing Size **2-3/8** lined with **IPC** (type of internal coating) set in a **4" Baker Lok-Set** packer at **5730** feet

Other type of tubing / casing seal if applicable **N/A**

Other Data

1. Is this a new well drilled for injection? ☐ Yes ☑ No
   If no, for what purpose was the well originally drilled? **Drinkard Producer**
2. Name of the Injection formation **Blinebry-Tubb-Drinkard**
3. Name of Field or Pool (if applicable) **Eunice N., Blinebry-Tubb-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. **Blinebry** 5889 - 5975 Open Hole / P&A'd behind 4" Liner from 5552 - 7568 / **Tubb** 6394 - 6704 & **Drinkard** 6732 - 6961 Behind Partial Packer w/ cement @ 6389'
5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area.
   See C-108 Attachment

Well: Northeast Drinkard Unit # 123

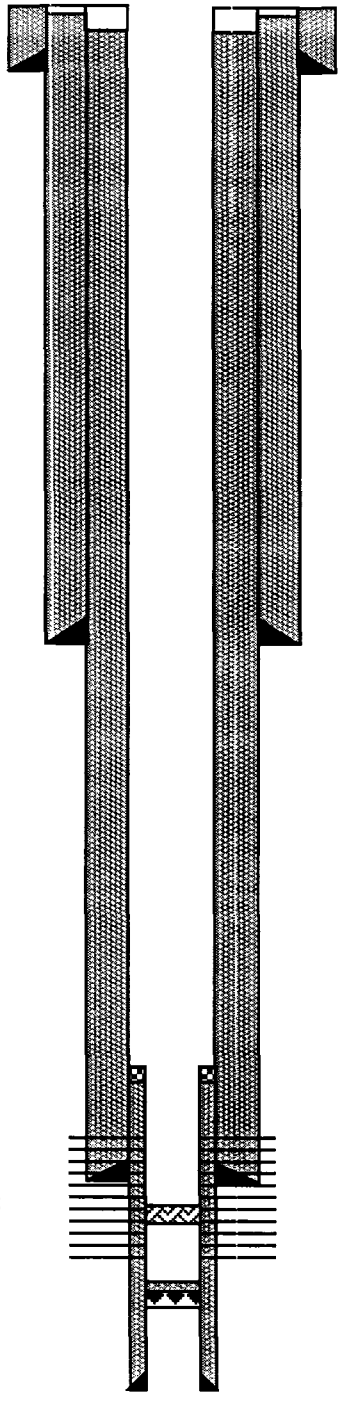
Field: Eunice N. Blinebry-Tubb-Drinkard

Current Status: Active Oil

Location: 2217' FNL & 989' FEL
Unit H, Sec. 2, T21S, R37E
Lea County, New Mexico

API #: 30-025-06360

Elevation: 3509' (GR)



17-1/2" Hole
13-3/8" 48# H-40 CSA 332'
Cement w / 375 sx
Circulated to Surface

11" Hole
8-5/8" 24/32# J-55 CSA 3099'
Cement w / 1800 sx
TOC @ 47' (TS)

Blinebry Open Hole:
5889 - 5975
Cement squeezed behind 4" Liner
Blinebry Perfs:
5844 - 6286 (64 Holes)

Tubb Perfs:
6300 - 6704 (35 Holes)

Partial Packer @ 6389' w/ 1 sx cement

Drinkard Perfs:
6732 - 6961 (31 Holes)

CIBP @ 7100' w/ 35' cement

7-7/8" Hole
5-1/2" 14/15.5# J-55 CSA 5889'
Cement w / 775 sx
TOC @ 61' (TS)

4-3/4" Hole
4" 13# K-55 LSA 7568'
Cement w / 135 sx
TOC @ 5552' (Top of Liner)

TD @ 7569'

20S 37E

NORTHEAST DRINKARD UNIT

RADIUS 10560'

RADIUS 2640'

21S 37E

33 34 35 36

1 2 3 6 7 10 11 12

WRN U 116 | WRN U 114 | WRN U 10 | WRN TUBB U 98 | WRN 36 | WRN U 123 | WRRN UT(BLBN-TUB)WF 104 | WRN U 68 | WRN U 57 | WRN U 53 | WRN U 56 | WRN U 64 | WRN U 145 | WRN U 144 | D-K 3 | D-K 1

WRN U 317 (BLB-TU)

WRN U 115 | WRN U 123 | WRN U 112 | WRN U 125 | WRN U 134 | WRN U 111 | WRN U 9 | WRN U A/C-1 33 | WRN U A/C-1 40 | WRN U WI-105 | WRN U 54 | WRN U 48 | WRN U 55 | D-K 4 | D-K 2

WRN U 52 | WRN U 140 | WRN U 117 | WRN U 132 | WRN U 35 | WRN U 108 | WRN U 8 | WRN (BLINEBRY-DR 96 | WRN U 131 | WRN U 122 | WRN U 110 | WRN U 138 | WRN U 30 | WRN U 37 | WRN U 42 | WRN U 45 | WRN U 59 | WRN U 46 | WRN U 49 | WRN U 58 | DK 7 | D-K 5 | CARTER 25 | 43

WRN U 118 | WRN U 119 | WRN U 113 | WRN PERMIT 1 | WRN U 129 | WRN U 100 | WRN U 95 | WRN U 127 | WRN U 308 | WRN U BT 26 | WRN U 137 | WRN U 41 | WRN U A/C-1 31 | WRN U A/C-1 32 | WRN U 44 | D-K 6

WRN UN 84 | WRN U 21 | WRN U 29 | 99 | WRN UN 130 | WRN U 97 | WRN U 34 | WRN U A/C-1 39 | WRN U 106 | WRN U 79 | WRN UNT BLNBR 1 90 | WRN U 11 | NM F 1 | TCB STATE 1 | ST 1

WRN U 212 | WRN U (BLINEB 213 | WRN U 214 | WRN U 215 | WRN UNT BLNBR BTR 91 | WARREN UNIT 82 | GULF ST 1

WRN UN 80 | WRN UN BLINE 19 | WRN UN BLINE 20 | WRN UN 38 | WRN UN 209 | WRN UN 208 | WRN UN-BLINEBRY TUBB 207 | WRN UN 76 | WRN UN BLINEBRY 17 | WRN UN BLINE 18 | WRN UN 75 | WRN UN 202 | WRN UN 203 | WRN UN BLINEBRY TUBB 204

WRN UNT BLNBR BTR 93 | WRN UN BLINE 16 | WRN UN B 33 15 | WRN UN FISHE 14 | WRN UN BLINE 12 | WRN UN FISHE 13

EH AILES A 1 4841

NEDU 101 5950 | NEDU 103 6010 | NEDU 106 6922 | NEDU 109 6025 | NEDU 112 6020 | NEDU 114 6896 | NEDU 117 6996 | NEDU 120 5995 | NEDU 122 7554 | ANNA FED 1 7600

RADIUS 10560' | RADIUS 2640'

NEDU 102 5935 | NEDU 104 5930 | NEDU 107 6000 | NEDU 108 6905 | NEDU 110 5976 | NEDU 111 6875 | NEDU 113 6829 | NEDU 116 6820 | NEDU 118 6150 | NEDU 119 6950 | NEDU 121 5950 | NEDU 123 7569 | DAURON 1 7510 | DAURON 5 7734 | DAURON 4 7850

NEDU 105 6870 | NEDU 115 6010

HAWK B 3 21-A 2665 | NEDU 204 6800 | NEDU 201 6750 | NEDU 202 8156 | NEDU 205 8540 | NEDU 208 6707 | TAYLOR 5 8363 | TAYLOR 4 8119 | TAYLOR 3 8224 | NEDU 211 6710 | NEDU 213 6760 | ST 2 9015 | NEDU 216WI 8 8156 | NEDU 217 5952 | NEDU 220 5975 | NEDU 222 5975 | NEDU 224 8700 | COGDAN FED 3 7780 | COGDAN FED 1 7825 | FED B 5 6004 | ELLIOTT FED 4B 7000 | DAURON 2 7860 | DAURON 3 7890 | MCNEIL 1A 7815

NEDU 206 8540 | NEDU 209 6540 | NEDU 210 6702 | NEDU 212 6782 | NEDU 214 6810 | NEDU 215 8083 | NEDU 219 5956 | NEDU 221 8285 | NEDU 223 7542 | COGDAN FED 2 7790 | WANTZ FED 5 7793 | MCNEILL 1 7779

LIVINGSTON 14 7745 | NEDU 203 7436 | NEDU 207 8030 | NEDU 299 8114 | NEDU 210 8302 | HAWK B 3 3E 8 8191 | 3S 8010 | ST 4 8005 | ST 13 8143 | ST 14 7976 | HARRY LEONARD A 2 8150 | 16 8155 | ELLIOTT FED 1 5971 | ELLIOTT FED 2 6001 | WANTZ FED TERRY FED 2 2 7816 6110

NEDU 301 6690 | NEDU 303 6674 8230 | LIVINGSTON 6 | NEDU 305 6747 | NEDU 306 8025 | 9 8070 | NEDU 209 | HAWK 4B 8145 | 3S 8021 | NEDU 6753 | NEDU 311 7956 | NEDU 312 5925 | ST 2 10 7985 | ST 3 12 8207 | ST 3 316 5950 | NEDU 323 8350 | NEDU 318 5925 | NEDU 319 8470 | ELLIOTT FED 2 8613 | 3 7500 | 1 8002 | TERRY FED 1 6070 | 2 7079 | WANTZ FED 4 7826 | ELLIOTT FIELDS 2 7800

STHLND ROY 5 6757 | STHLND ROY 4 6750

LIVINGSTON 304 6659 | 8130 | NEDU 307 6674 | 3 | 6094 4 6167 | NEDU 302 6690 | 328 6850 | 329 6850 | 332 6890 | NEDU 310 7975 | 18 6760 | HAWK | NEDU 313 6718 | ST 3 5910 | 3 7906 | NEDU 314 | ST 2 7 7854 | HARRY LEONARD A 324 7778 | 2 8E 7926 | 12 320 5925 | HARRY LEONARD A 3 10E 8160 | 325 8014 | 321 5970 | 8013 | ELLIOTT FED 1 5 8370 7502 | ELLIOTT FED 6 6015 | ELLIOTT FED B 3 5997 | WANTZ FED 3 7820 | HUMBLE FED 1 6039 | ELLIOTT FIELDS 1 7460 | ELLIOTT FIELDS 3

WC HAWK B 10 S 1 7955 | DAURON 3 7780 | 408 | NEDU 409 7875 7463 | AM LCKHRT B 11 2 6818 | 1 7751 | AM LCKHRT FED B 4 7811 | LCKHRT B 11 E 5 7931 | LCKHRT B 11 12 5932 | AM LCKHRT FED B 7 8042 | 6 8065 | 9 5880 | LCKHRT FED B 12 5900 | 7 8268 | 2 8149 | LCKHRT 6B 6030 | LCKHRT B 12 10 6050 | FED 1 7515

STHLND ROY 7A 8482 | NEDU 403 6790 | NEDU 405 6723 | WC HAWK B 10 S 4 6 8090 | NEDU 406 7950 | NEDU 401 7500 | ST 10 1 8285 | 412 6847 | 415 6840 | LCKHRT 3B 8565

411 | WC HAWK FED 1 | AM LCKHRT B 11 3 7659 | LCKHRT FED B 11 14 5925 | LCKHRT FED B 11 16 7450 | LCKHRT FED B 11 17 7500 | LCKHRT FED B 11 15 | LCKHRT B 11 10 6744 | LCKHRT FED B 12 4 8202 | 5 8033 | LCKHRT B 12 8 5923 | LCKHRT B 12 9 6000 | SAM FED 1 7530

STHLND ROY 6 7200 | NEDU 402 8161 | NEDU 404 8078 | NEDU 407 3 7900 7981 | NEDU 410 6580 7728 | HAWK B 10 E | WC HAWK B 10 S 3 8075 | 1 6570 | LCKHRT FED | LCKHRT B 11 11 6780 | LCKHRT 11 | 12 | COLL 1 9150

414 | 10 | 413 6850 | 509 7575 | 510 7200 | 512 7492 | 15 6760 | COLL 2 5950 | CHESER 1 7695

HAWK FED B 1 13 6780 | 501 | NEDU 514 6830 | 416 | NEDU 307 7573 | NEDU 505 7717 | NEDU 517 | 7

623 | 521 6820 | NM FD ST COM 1 6312 | 515 6800 | 516 6800 | NEDU 506 7673 | NEDU 508 6710 | 511 7520 | 513 6711 | AM LCKHRT B 11 6 7577 | LCKHRT FED B 11 13 5900 | CHESER 2 5920 | PLUMLEE 1 7674 | FIELDS 1 5938

HAWK 7B 6750 | NEDU 502 | NM ST SV 8396 | 2 ST V 6721 | NEDU 504 7625 | 8043 | 518 6840 | 517 7443

LEONARD HARRY NCT 6 6720 | 4 6699 | NEDU 601 8145 | ST 1S 6660 | 8148 | ST S 4 6667 7896 | 605 7675 | 524 | 522 6845 | 520 6800 | 519 6780 | NEDU 609 7806 | NEDU 612 6720 | NEDU 614 7614 | SMITH 2 6631 | LCKHRT B 14 3 5900 | BUNIN 1 4 7165 6504 | GULF BUNIN 2 6010 | GULF BUNIN 3 6300 | NB BUNIN EST 3 3Y 1XD 6000 7400 | BUNIN 1 7538

ST 1 2200 | NEDU 624 | 622 6840 | 618 6810 | 619 6810 | 621 6820

● OIL PRODUCER

☼ GAS PRODUCER

≠ WATER INJECTION

△ SALT WATER SOURCE

⊹ DRY HOLE

N

0 1320 2640 5280 FT.

0 1000 2000 3000 4000 5000 FT.

SCALE

Apache CORPORATION SOUTHERN REGION

NEDU AREA

LEA COUNTY, NEW MEXICO

CONVERSIONS

Injection Well Permitting

Well #: 123

DATE: 11/29/2000	REVISED: 00\00\00	GEOL : B. USZYNSKI
J:\PER\NEDU\INJ123.DWG	DRAFTED BY: HGS	LANDMAN: M. MORENO

30-025-06506

OPERATOR **Apache Corporation** LEASE **Northeast Drinkard Unit (formerly Hawk B-3 # 22)**

WELL NO. **204** **3300' FNL & 760' FWL** **L** **3** **21S** **37E**

FOOTAGE LOCATION | UNIT | SECTION | TOWNSHIP | RANGE

Well Construction Data

Surface Casing

Size **9-5/8** Cemented with **625 sx**

TOC **Surface** feet determined by **Circulation**

Hole Size **10-3/4**

Intermediate Casing

Size _____ Cemented with _____

TOC _____ feet determined by _____

Hole Size _____

Long String

Size **7** Cemented with **650 sx**

TOC **2200** feet determined by **Temp Survey**

Hole Size **8-3/4**

Total Depth **6800**

Injection Interval

5600 feet to **6800** feet **Perforated**

(perforated or open-hole; indicate which)

Tubing Size **2-3/8** lined with **IPC** set in a

(type of internal coating)

7" Baker Lok-Set packer at **5500** feet

Other type of tubing / casing seal if applicable **N/A**

Other Data

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

If no, for what purpose was the well originally drilled? **Blinebry Producer**

2. Name of the Injection formation **Blinebry-Tubb-Drinkard**

3. Name of Field or Pool (if applicable) **Eunice N., Blinebry-Tubb-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. **Blinebry** 5607 - 5714 / Cement squeezed w/ 150 sx / **Tubb** 6218 - 6374 / Cement squeezed w/ 100 sx / **Drinkard** 6610 - 6686 / Cement squeezed w/ 100 sx

5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area.
See C-108 Attachment

Well: Northeast Drinkard Unit # 204

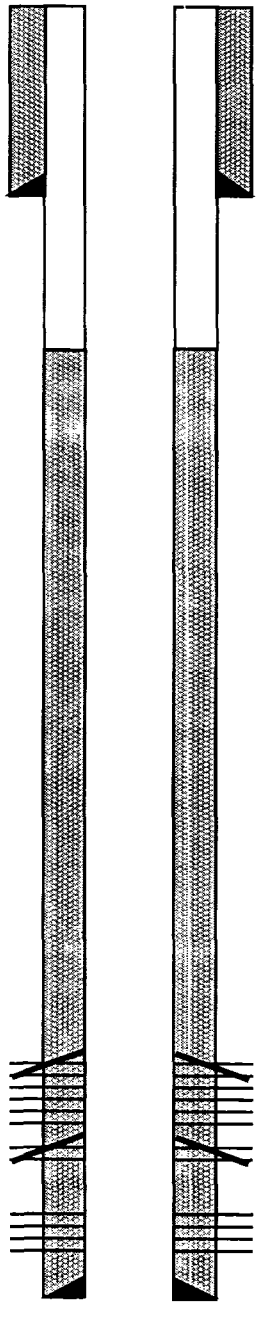
Field: Eunice N. Blinebry-Tubb-Drinkard

Current Status: Active Oil

Location: 3300' FNL & 760' FWL
Unit L, Sec. 3, T21S, R37E
Lea County, New Mexico

API #: 30-025-06506

Elevation: 3477' (GR)



10-3/4" Hole
9-5/8" 36# H-40 CSA 1310'
Cement w / 625 sx
Circulated to Surface

Blinebry Perfs:
5607 - 5714 (11 Holes)
Cement squeezed w/ 150 sx
5736 - 6037 (124 Holes)

Tubb Perfs:
6218 - 6374 (94 Holes)
Cement squeezed w/ 100 sx
6056 - 6144 (22 Holes)

Drinkard Perfs:
6610 - 6686 (58 Holes)
Cement squeezed w/ 100 sx
6526 - 6740 (98 Holes)

8-3/4" Hole
7" 20/23# J-55 CSA 6800'
Cement w / 650 sx
TOC @ 2200' (Temp Survey)

TD @ 6800'

NORTHEAST DRINKARD UNIT

20S 37E

21S 37E

RADIUS 10560'

RADIUS 2640'

31 32 33 34

5 4 3 2

8 9 10 11

17 15 14

- OIL PRODUCER
- GAS PRODUCER
- WATER INJECTION
- SALT WATER SOURCE
- DRY HOLE

N

0 1320 2640 5280 FT.

0 1000 2000 3000 4000 5000 FT.

SCALE

Apache CORPORATION
SOUTHERN REGION

NEDU AREA
LEA COUNTY, NEW MEXICO

CONVERSIONS
Injection Well Permitting
Well #: 204

DATE: 11/29/2000	REVISED: 00\00\00	GEOL : B. USZYNSKI
J:\PER\NEDU\INJ204.DWG	DRAFTED BY: HGS	LANDMAN: M. MORENO

30 025-06519

OPERATOR **Apache Corporation** LEASE **Northeast Drinkard Unit (formerly Livingston # 8)**

WELL NO.	FOOTAGE LOCATION	UNIT	SECTION	TOWNSHIP	RANGE
207	**2970' FSL & 2308' FWL**	**N**	**3**	**21S**	**37E**

Well Construction Data

Surface Casing
Size **13-3/8** Cemented with **250 sx**
TOC **Surface** feet determined by **Circulation**
Hole Size **17-1/2**

Intermediate Casing
Size **8-5/8** Cemented with **1600 sx**
TOC **Surface** feet determined by **Circulation**
Hole Size **11**

Long String **Liner**
Size **5-1/2** Cemented with **810 sx**
TOC **2648** feet determined by **Top of Liner**
Hole Size **7-7/8**

Total Depth **8030**

Injection Interval
5620 feet to **6885** feet **Perforated**
(perforated or open-hole; indicate which)

Tubing Size **2-3/8** lined with **IPC** (type of internal coating) set in a **5-1/2" Baker Lok-Set** packer at **5520** feet

Other type of tubing / casing seal if applicable **N/A**

Other Data

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

   If no, for what purpose was the well originally drilled? **Drinkard Producer**

2. Name of the Injection formation **Blinebry-Tubb-Drinkard**

3. Name of Field or Pool (if applicable) **Eunice N., Blinebry-Tubb-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. **Blinebry** 5655 - 5790 / Cement squeezed w/ 350 sx

5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area.
   See C-108 Attachment

Well: Northeast Drinkard Unit # 207

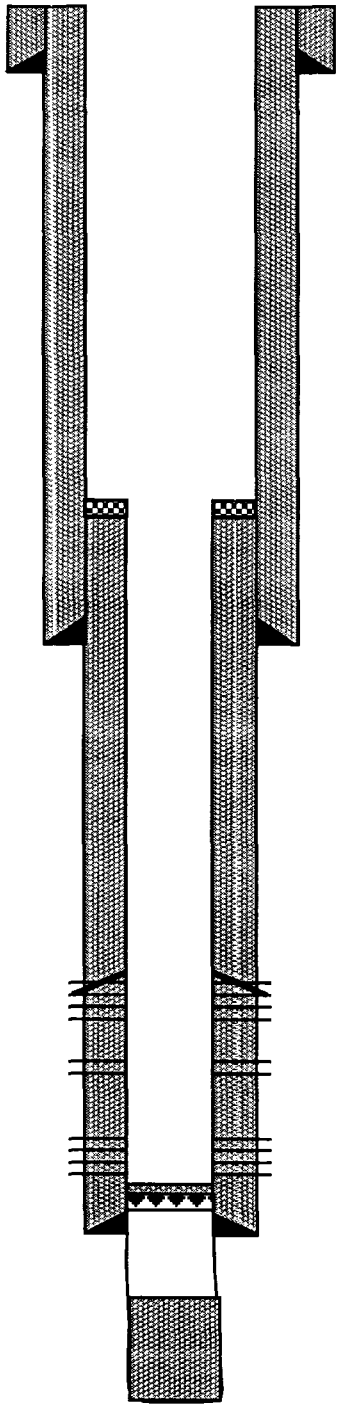
Field: Eunice N. Blinebry-Tubb-Drinkard

Current Status: Active Oil

Location: 2970' FSL & 2308' FWL
Unit N, Sec. 3, T21S, R37E
Lea County, New Mexico

API #: 30-025-06519

Elevation: 3458' (GR)



17-1/2" Hole
13-3/8" 36# H-40 CSA 215'
Cement w / 250 sx
Circulated to Surface

11" Hole
8-5/8" 28/32# J-55 CSA 3153'
Cement w / 1600 sx
Circulated to Surface

Blinebry Perfs:
5655 - 5790 (432 Holes)
Cement squeezed w/ 350 sx
5819 - 5890 (123 Holes)

Tubb Perfs:
6097 - 6191 (35 Holes)

Drinkard Perfs:
6555 - 6813 (338 Holes)

CIBP @ 6920' w/ 35' cement

Plugback from 8030' to 7400'
w/ 250 sx

7-7/8" Hole
5-1/2" 15.5# J-55 LSA 7000'
Cement w / 810 sx
TOC @ 2648' (Top of Liner)

TD @ 8030'

NORTHEAST DRINKARD UNIT

RADIUS 10560'

RADIUS 2640'

20S 37E

21S 37E

32 33 34 35

5 4 3 2 1

8 9 10 11 12

17 16 15 14 13

- ● OIL PRODUCER
- ☼ GAS PRODUCER
- ▰ WATER INJECTION
- △ SALT WATER SOURCE
- ✧ DRY HOLE

N

0 1320 2640 5280 FT.

0 1000 2000 3000 4000 5000 FT.

SCALE

Apache CORPORATION
SOUTHERN REGION

NEDU AREA
LEA COUNTY, NEW MEXICO

CONVERSIONS
Injection Well Permitting
Well #: 207

DATE: 11/29/2000	REVISED: 00\00\00	GEOL : B. USZYNSKI
J:\PER\NEDU\INJ207.DWG	DRAFTED BY: HGS	LANDMAN: M. MORENO

30-025-06355

OPERATOR **Apache Corporation** LEASE **Northeast Drinkard Unit (formerly Harry Leonard # 11)**

WELL NO. **223** **2970' FSL & 990' FEL** **P** **2** **21S** **37E**

FOOTAGE LOCATION | UNIT | SECTION | TOWNSHIP | RANGE

Well Construction Data

Surface Casing
Size **13-3/8** Cemented with **450 sx**
TOC **Surface** feet determined by **Circulation**
Hole Size **17-1/2**

Intermediate Casing
Size **9-5/8** Cemented with **1550 sx**
TOC **309** feet determined by **Temp Survey**
Hole Size **12-1/4**

Long String
Size **7** Cemented with **600 sx**
TOC **2670** feet determined by **Temp Survey**
Hole Size **8-3/4**
Total Depth **7542**

Liner
Size **4-1/2** Cemented with **325 sx**
TOC **5131** feet determined by **Liner Top**
Hole Size **6-1/4**

Injection Interval
5780 feet to **6950** feet **Perforated**
(perforated or open-hole; indicate which)

Tubing Size **2-3/8** lined with **IPC** set in a
(type of internal coating)
4-1/2" Baker Lok-Set packer at **5680** feet

Other type of tubing / casing seal if applicable **N/A**

Other Data

1. Is this a new well drilled for injection? ☐ Yes ☑ No
If no, for what purpose was the well originally drilled? **Blinebry Producer**

2. Name of the Injection formation **Blinebry-Tubb-Drinkard**

3. Name of Field or Pool (if applicable) **Eunice N., Blinebry-Tubb-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. **Blinebry** 5834 - 5950 Open Hole / P&A'd behind 4-1/2" Liner from 5131 - 7541 / **Abo** 7134 - 7411 / **CIBP @ 7110'** w/ 35' cement

5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area.
See C-108 Attachment

Well: Northeast Drinkard Unit # 223

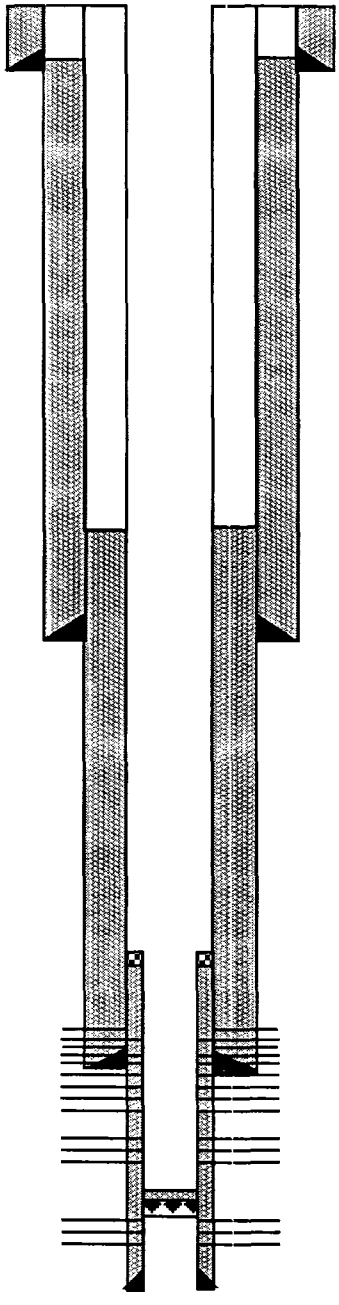
Field: Eunice N. Blinebry-Tubb-Drinkard

Current Status: Active Oil

Location: 2970' FSL & 990' FEL
Unit P, Sec. 2, T21S, R37E
Lea County, New Mexico

API #: 30-025-06355

Elevation: 3500' (GR)



17-1/2" Hole
13-3/8" 48# H-40 CSA 336'
Cement w / 450 sx
Circulated to Surface

12-1/4" Hole
9-5/8" 36# J-55 CSA 3044'
Cement w / 1550 sx
TOC @ 309' (TS)

Blinebry Open Hole:
5834 - 5950
Cement squeezed behind 4" Liner
5787 - 6243 (60 Holes)

Tubb Perfs:
6252 - 6679 (36 Holes)

Drinkard Perfs:
6756 - 6938 (19 Holes)

CIBP @ 7110' w/ 35' cement

Abo Perfs:
7134 - 7411 (12 Holes)

8-3/4" Hole
7" 20# J-55 CSA 5834'
Cement w / 600 sx
TOC @ 2670' (TS)

6-1/4" Hole
4-1/2" 10.5# K-55 LSA 7541'
Cement w / 325 sx
TOC @ 5131' (Top of Liner)

TD @ 7542'

NORTHEAST DRINKARD UNIT

20S 37E

21S 37E

RADIUS 10560'

RADIUS 2640'

33 34 35 36

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

- OIL PRODUCER
- GAS PRODUCER
- WATER INJECTION
- SALT WATER SOURCE
- DRY HOLE

N

0 1320 2640 5280 FT.

0 1000 2000 3000 4000 5000 FT.

SCALE

Apache CORPORATION SOUTHERN REGION

NEDU AREA
LEA COUNTY, NEW MEXICO

CONVERSIONS
Injection Well Permitting
Well #: 223

DATE: 11/29/2000	REVISED: 00\00\00	GEOL : B. USZYNSKI
J:\PER\NEDU\INJ223.DWG	DRAFTED BY: HGS	LANDMAN: M. MORENO

Well: Northeast Drinkard Unit # 304

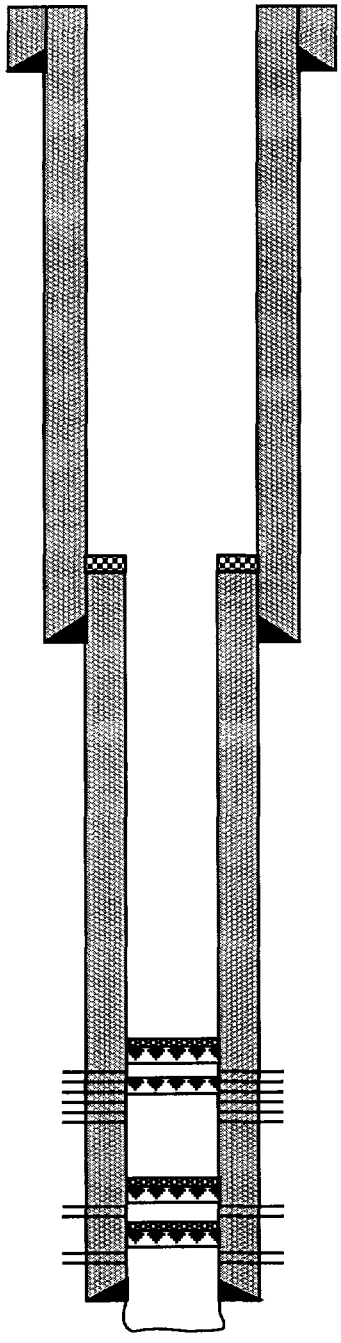
Field: Eunice N. Blinebry-Tubb-Drinkard

Current Status: TA'd

Location: 915' FSL & 2208' FWL
Unit V, Sec. 3, T21S, R37E
Lea County, New Mexico

API #: 30-025-06520

Elevation: 3428' (GR)



17" Hole
13-3/8" 48# H-40 CSA 237'
Cement w / 250 sx
Circulated to Surface

11" Hole
8-5/8" 32# H-40 CSA 3151'
Cement w / 2000 sx
Circulated to Surface

CIBP @ 5500' w/ 35' cement

Blinebry Perfs:
5558 - 6134 (576 Holes)
CIBP @ 5577'

CIBP @ 6315' w/ 35' cement

Tubb Perfs:
6381 - 6413 (10 Holes)

CIBP @ 6450' w/ 35' cement

Drinkard Perfs:
6520 - 6525 (6 Holes)
Open Hole:
6584 - 6659

7-7/8" Hole
5-1/2" 15.5# J-55 LSA 6584'
Cement w / 700 sx
TOC @ 2950' (Top of Liner)

TD @ 6659'

30-025-06520

OPERATOR **Apache Corporation** LEASE **Northeast Drinkard Unit (formerly Livingston # 9)**

WELL NO.	FOOTAGE LOCATION	UNIT	SECTION	TOWNSHIP	RANGE
304	**915' FSL & 2208' FWL**	**V**	**3**	**21S**	**37E**

Well Construction Data

Surface Casing
Size **13-3/8** Cemented with **250 sx**
TOC **Surface** feet determined by **Circulation**
Hole Size **17**

Intermediate Casing
Size **8-5/8** Cementec with **2000 sx**
TOC **Surface** feet determined by **Circulation**
Hole Size **11**

Long String **Liner**
Size **5-1/2** Cemented with **700 sx**
TOC **2950** feet determined by **Top of Liner**
Hole Size **7-7/8**

Total Depth **6659**

Injection Interval
5550 feet to **6659** feet **Perforated & Open Hole**
(perforated or open-hole; indicate which)

Tubing Size **2-3/8** lined with **IPC** (type of internal coating) set in a **5-1/2" Baker Lok-Set** packer at **5450** feet

Other type of tubing / casing seal if applicable **N/A**

Other Data

1. Is this a new well drilled for injection? ☐ Yes ☑ No
   If no, for what purpose was the well originally drilled? **Drinkard Producer**
2. Name of the Injection formation **Blinebry-Tubb-Drinkard**
3. Name of Field or Pool (if applicable) **Eunice N., Blinebry-Tubb-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. **N/A**
5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area.
   See C-108 Attachment

NORTHEAST DRINKARD UNIT

20S 37E

21S 37E

RADIUS 10560'

RADIUS 2640'

- OIL PRODUCER
- GAS PRODUCER
- WATER INJECTION
- SALT WATER SOURCE
- DRY HOLE

N

0 1320 2640 5280 FT.

0 1000 2000 3000 4000 5000 FT.

SCALE

Apache CORPORATION
SOUTHERN REGION

NEDU AREA
LEA COUNTY, NEW MEXICO

CONVERSIONS
Injection Well Permitting
Well #: 304

DATE: 11/29/2000	REVISED: 00\00\00	GEOL : B. USZYNSKI
J:\PER\NEDU\INJ304.DWG	DRAFTED BY: HGS	LANDMAN: M. MORENO

30-025-06493

OPERATOR **Apache Corporation** LEASE **Northeast Drinkard Unit (formerly Hawk B-3 # 12)**

WELL NO.	FOOTAGE LOCATION	UNIT	SECTION	TOWNSHIP	RANGE
305	**1980' FSL & 1980' FEL**	**R**	**3**	**21S**	**37E**

Well Construction Data

Surface Casing
Size **13-3/8** Cemented with **250 sx**
TOC **Surface** feet determined by **Circulation**
Hole Size **17-1/2**

Intermediate Casing
Size **9-5/8** Cemented with **1525 sx**
TOC **725** feet determined by **Temp Survey**
Hole Size **12-1/4**

Long String
Size **7** Cemented with **875 sx**
TOC **3000** feet determined by **Temp Survey**
Hole Size **8-3/4**

Total Depth **6747**

Injection Interval
5610 feet to **6747** feet **Perforated**
(perforated or open-hole; indicate which)

Tubing Size **2-3/8** lined with **IPC** (type of internal coating) set in a **7" Baker Lok-Set** packer at **5510** feet

Other type of tubing / casing seal if applicable **N/A**

Other Data

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

   If no, for what purpose was the well originally drilled? **Drinkard Producer**

2. Name of the Injection formation **Blinebry-Tubb-Drinkard**

3. Name of Field or Pool (if applicable) **Eunice N., Blinebry-Tubb-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. **Blinebry** 5670 - 5860 / Cement squeezed w/ 175 sx

5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area.
   See C-108 Attachment

Well: Northeast Drinkard Unit # 305

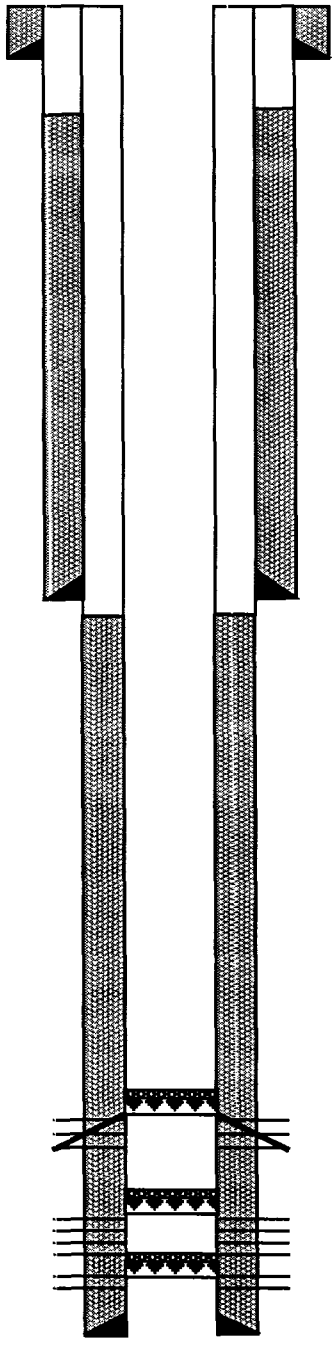
Field: Eunice N. Blinebry-Tubb-Drinkard

Current Status: TA'd

Location: 1980' FSL & 1980' FEL
Unit R, Sec. 3, T21S, R37E
Lea County, New Mexico

API #: 30-025-06493

Elevation: 3459' (GR)



17-1/2" Hole
13-3/8" 36# Armco CSA 199'
Cement w / 250 sx
Circulated to Surface

12-1/4" Hole
9-5/8" 36/40# J-55 CSA 2969'
Cement w / 1525 sx
TOC @ 725' (TS)

CIBP @ 5650' w/ 35' cement

Blinebry Perfs:
5670 - 5860 (270 Holes)
Cement squeezed w/ 175 sx

CIBP @ 6150' w/ 35' cement

Tubb Perfs:
6180 - 6501 (100 Holes)

CIBP @ 6530' w/ 35' cement

Drinkard Perfs:
6535 - 6689 (222 Holes)

8-3/4" Hole
7" 23# J-55 CSA 6746'
Cement w / 875 sx
TOC @ 3000' (TS)

TD @ 6747'

NORTHEAST DRINKARD UNIT

20S 37E

21S 37E

RADIUS 10560'

RADIUS 2640'

32 33 34 35

5 4 3 2 1

8 9 10 11 12

16 15 14 13

WRN U-MCKEE-F 25
WRN U 88
WRN U-MCKEE-F 6
WRN U 24
ST A 1
LEA ST BU A 1
TIDEWATER ST 1
WRN U 118
WRN U 119
WRN U 113 129
WRN PERMIT 1
WRN U 100 95 127
WRN U 308
WRN U BT 26 137
WRN U 41
WRN U A/C-1 31
WRN U A/C-1 32
WRN U 44
WRN UN 84
WRN U 21
WRN U 99
WRN UN 130 97
WRN U 34
WRN U A/C-1 39
WRN U 106
WRN U 79
WRN UNT BLNBR BTR 1 90
WRN U 212
WRN U KBLINEB 213
WRN U 214
WRN U 215
WRN UNT BLNBR BTR 91
WARREN UNIT 82
WRN UN 60
WRN UN BLINE 19
WRN UN BLINE 20
WRN UN 38
PETER A ST 1
WRN UN 209
WRN UN 208
WRN UN-BLINEBRY TUBB 207
WRN UN 76
WRN UN BLINEBRY 17
WRN UN BLINE 18
WRN UN 75
WRN UN 202
WRN UN 203
WRN UN BLINEBRY TUBB 204
PETER ST 1 7097
DEKALB ST 1 5935
WRN UNT BLNBR BTR 93 7000
WRN UN BLINE 16 6050
WRN UN B 33 1 15 6050
WRN UN FISHE 3 14 6020
WRN UN BLINE 1 12 6198
WRN UN FISHE 5 13 6050
LG HILL 1 6028
NEDU 101 5950
NEDU 103 6010
NEDU 106 6922
NEDU 109 6025
NEDU 112 6020
NEDU 102 5935
NEDU 104 5930
NEDU 107 6000
NEDU 108 6805
NEDU 110
NEDU 111 5976 6975
NEDU 113 6829
NEDU 105 6870
HAWK FED B 4 1 6000
EXXON FEE 1 7100
NEDU 114 6896
NEDU 117 6996
NEDU 120 5995
NEDU 122 7554
NEDU 115 6820
NEDU 116 6010
NEDU 118 6150 119 6850
NEDU 121 5950
NEDU 123 7569
ANNA FED 1 7600
DAURON 1 7510
DAURON 5 7734
DAURON 4 7850
NEDU 217 5952
NEDU 220 5975
CODGAN FED 3 7780
CODGAN FED 1 7825
FED B 5 6004
ELLIOTT FED 4B 7000
DAURON 2 7860
ELMER C HILL C 5 3775
LEA CO PROSPECT 1 4702
EC HILL 1 6050
EC HILL 1 6394
NEDU 201 6750 202 8156
HAWK B 3 21 NEDU 204 6800 2665
NEDU 206 8540
NEDU 200 6707
TAYLOR 4 8119
NEDU 211 6710
TAYLOR 5 8363
TAYLOR 3 2224
NEDU 213 6760
ST 2 11 8015
216WI 8 6156
NEDU 816 8147 818 8000
NEDU 224 8700
NEDU 222 5975
CODGAN FED 2 7790
TERRY FED 2 7816
WANTZ FED 2 6110
ELLIOTT FED 1 5971
ELLIOTT FED 2 6001
ELLIOTT FED 2 7079
TERRY FED 1 6079
ELLIOTT FED 2 8613
ELLIOTT FED 3 7500
ELLIOTT FED 1 3002
HAWK WC 1 3760
GULF HILL 4 7450
GULF HILL 5 7250
GULF HILL 1 5974
NEDU 301 6690
NEDU 303 6674 8230
LIVINGSTON 6 6747
NEDU 305 306 8025
HAWK 48 7845 208 5753 NEDU 8021
NEDU 209 8070
NEDU 207 8030
NEDU 212 6982
NEDU 214 8114
NEDU 210 8302
HAWK B 3 3E 8 3S 8010 8191
NEDU 215 8083
NEDU 221 8285
NEDU 223 7542
NEDU 323 8350
NEDU 319 5925
NEDU 319 8470
ELLIOTT FED 1 5 8370 7502
ELLIOTT FED 6 6015
ELLIOTT FED B 3 5997
HAWK 4A 6778
STHLND ROY 3A 6775
STHLND ROY 8 6703
STHLND ROY 5 6757
STHLND ROY 4 6750
NEDU 302 6690
NEDU 304 6659
LIVINGSTON 8130
NEDU 307 6674
NEDU 6094 3 8167
WC HAWK B 3 6 18 7825 310 6760 1B 7975 NEDU HAWK
NEDU 314
NEDU 317 5914
HARRY LEONARD A 324 7778
NEDU 313 ST 3 7906
ST 2 7 7854
HARRY LEONARD A 3 10E 325 14 8013 321 5970
NEDU 320 5925
ST 2 10 7985 312 5925
NEDU 316 8950
NEDU 311 6746
NEDU 318 6704 NEDU 322 8807
ST 2 8075 12
ST 14 7936
ST 5910
ST 13 8143
NEDU 225 6850
NEDU 8063
NEDU 215 6810
NEDU 210 8302
NEDU 8285
NEDU 223 7542
NEDU 323 8350
NEDU 319 5925
NEDU 319 8470
ELLIOTT FED 1 5 8370 7502
ELLIOTT FED 6 6015
ELLIOTT FED B 3 5997
HAWK 4A 6778
STHLND ROY 3A 6775
STHLND ROY 8 6703
STHLND ROY 5 6757
STHLND ROY 4 6750
NEDU 302 6690
NEDU 304 6659
LIVINGSTON 8130
NEDU 307 6674
NEDU 6094 3 8167
WC HAWK B 3 6 18 7825 310 6760 1B 7975 NEDU HAWK
NEDU 314
NEDU 317 5914
HARRY LEONARD A 324 7778
NEDU 313 ST 3 7906
ST 2 7 7854
HARRY LEONARD A 3 10E 325 14 8013 321 5970
NEDU 320 5925
ST 2 10 7985 312 5925
NEDU 316 8950
NEDU 311 6746
NEDU 318 6704 NEDU 322 8807
ST 2 8075 12
ST 14 7936
ST 5910
ST 13 8143
NEDU 225 6850
NEDU 8063
NEDU 215 6810
NEDU 210 8302
HAWK B 3 3E 8 3S 8010 8191
NEDU 212 6982
NEDU 214 8114
NEDU 207 8030
NEDU 209 8070
NEDU 303 6674 8230
LIVINGSTON 6 6747
NEDU 305 306 8025
HAWK 48 7845 208 5753 NEDU 8021
NEDU 301 6690

Check South

30-025-06507

OPERATOR **Apache Corporation** LEASE **Northeast Drinkard Unit (formerly Hawk B-3 # 5)**

WELL NO. **306** **1980' FNL & 1830' FEL** **R** **3** **21S** **37E**

FOOTAGE LOCATION UNIT SECTION TOWNSHIP RANGE

Well Construction Data

Surface Casing

Size **10-3/4** Cemented with **225 sx**

TOC **Surface** feet determined by **Circulation**

Hole Size **13-3/4**

Intermediate Casing

Size **7-5/8** Cemented with **1150 sx**

TOC **650** feet determined by **Temp Survey**

Hole Size **9-7/8**

Long String

Size **5-1/2** Cemented with **625 sx**

TOC **3200** feet determined by **Temp Survey**

Hole Size **6-3/4**

Total Depth **8025**

Injection Interval

5620 feet to **6800** feet **Perforated**

(perforated or open-hole; indicate which)

Tubing Size **2-3/8** lined with **IPC** (type of internal coating) set in a **5-1/2" Baker Lok-Set** packer at **5520** feet

Other type of tubing / casing seal if applicable **N/A**

Other Data

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

If no, for what purpose was the well originally drilled? **McKee Producer**

2. Name of the Injection formation **Blinebry-Tubb-Drinkard**

3. Name of Field or Pool (if applicable) **Eunice N., Blinebry-Tubb-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. **Blinebry** 5646 - 5723 / Cement squeezed w/ 200 sx / **Drinkard** 6522 - 6776 / **CIBP @** 6475' w/ 35' cement / **CIBP @** 6888' / **CIBP @** 6940' w/ 35' cement **McKee** 7700 - 7856 / **CIBP @** 7500' w/ 10' cement

5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area. **See C-108 Attachment**

Well: Northeast Drinkard Unit # 306

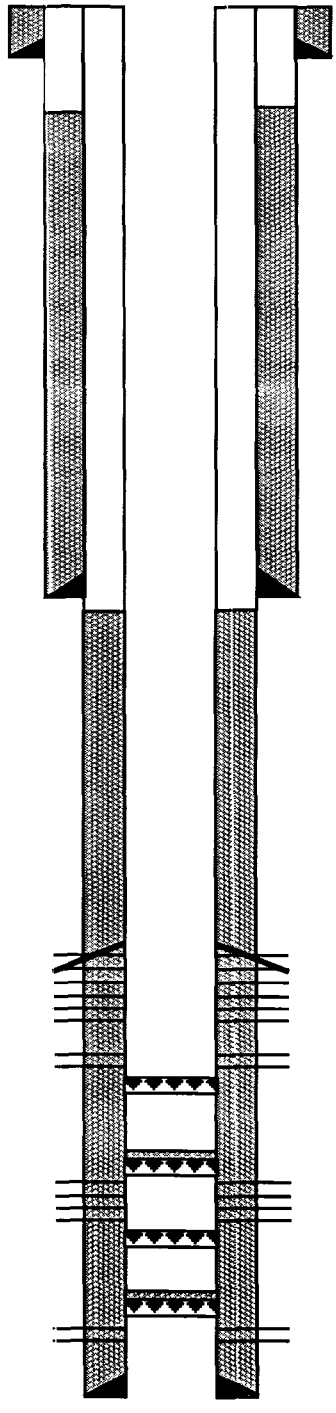
Field: Eunice N. Blinebry-Tubb-Drinkard

Current Status: Active Oil

Location: 1980' FNL & 1830' FEL
Unit R, Sec. 3, T21S, R37E
Lea County, New Mexico

API #: 30-025-06507

Elevation: 3459' (GR)



13-3/4" Hole
10-3/4" 33# H-40 CSA 273'
Cement w / 225 sx
Circulated to Surface

9-7/8" Hole
7-5/8" 26# J-55 CSA 3147'
Cement w / 1150 sx
TOC @ 650' (TS)

Blinebry Perfs:
5646 - 5723 (14 Holes)
Cement squeezed w/ 200 sx
5773 - 6071 (69 Holes)

Tubb Perfs:
6083 - 6169 (14 Holes)
CIBP remnants @ 6240'

CIBP @ 6475' w/ 35' cement

Drinkard Perfs:
6522 - 6776 (36 Holes)
CIBP @ 6888'

CIBP @ 7500' w/ 10' cement

McKee Perfs:
7700 - 7856 (512 Holes)

6-3/4" Hole
5-1/2" 15.5/17# J-55 CSA 8024'
Cement w / 625 sx
TOC @ 3200' (TS)

TD @ 8025'

NORTHEAST DRINKARD UNIT

RADIUS 10560'

RADIUS 2640

20S 37E

21S 37E

32 33 34 35

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

- OIL PRODUCER
- GAS PRODUCER
- WATER INJECTION
- SALT WATER SOURCE
- DRY HOLE

N

0 1320 2640 5280 FT.

0 1000 2000 3000 4000 5000 FT.

SCALE

Apache CORPORATION
SOUTHERN REGION

NEDU AREA
LEA COUNTY, NEW MEXICO

CONVERSIONS
Injection Well Permitting
Well #: 306

DATE: 11/29/2000	REVISED: 00\00\00	GEOL : B. USZYNSKI
J:\PER\NEDU\INJ306.DWG	DRAFTED BY: HGS	LANDMAN: M. MORENO

30-025-06497

OPERATOR **Apache Corporation** LEASE **Northeast Drinkard Unit (formerly Hawk B-3 # 13)**

WELL NO.	FOOTAGE LOCATION	UNIT	SECTION	TOWNSHIP	RANGE
310	660' FSL & 660' FEL	X	3	21S	37E

Well Construction Data

Surface Casing
Size **13-3/8** Cemented with **250 sx**
TOC **Surface** feet determined by **Circulation**
Hole Size **17-1/2**

Intermediate Casing
Size **9-5/8** Cemented with **1200 sx**
TOC **1044** feet determined by **Temp Survey**
Hole Size **12-1/4**

Long String
Size **7** Cemented with **775 sx**
TOC **2975** feet determined by **Temp Survey**
Hole Size **8-3/4**

Total Depth **6760**

Injection Interval
5620 feet to **6760** feet **Perforated**
(perforated or open-hole; indicate which)

Tubing Size **2-3/8** lined with **IPC** (type of internal coating) set in a **7" Baker Lok-Set** packer at **5520** feet

Other type of tubing / casing seal if applicable **N/A**

Other Data

1. Is this a new well drilled for injection? ☐ Yes ☑ No
   If no, for what purpose was the well originally drilled? **Drinkard Producer**
2. Name of the Injection formation **Blinebry-Tubb-Drinkard**
3. Name of Field or Pool (if applicable) **Eunice N., Blinebry-Tubb-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. **N/A**
5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area.
   See C-108 Attachment

Well: Northeast Drinkard Unit # 310

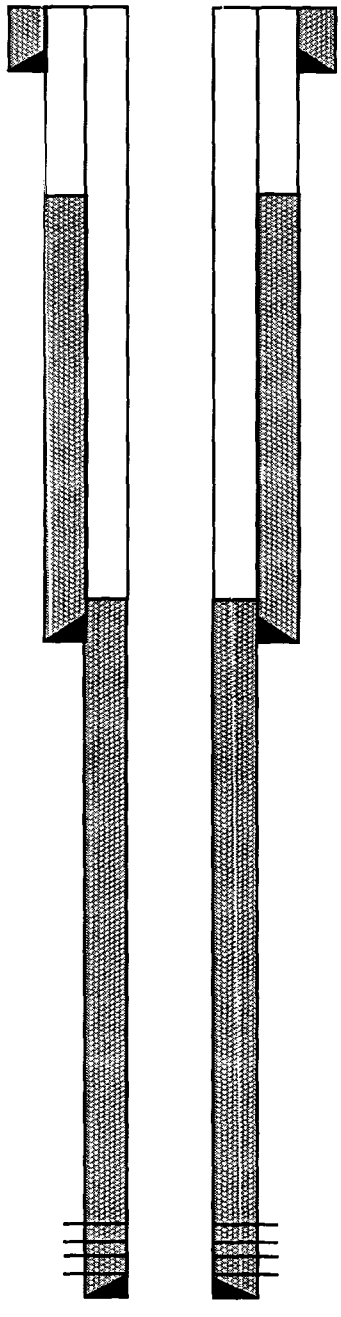
Field: Eunice N. Blinebry-Tubb-Drinkard

Current Status: Active Oil

Location: 660' FSL & 660' FEL
Unit X, Sec. 3, T21S, R37E
Lea County, New Mexico

API #: 30-025-06497

Elevation: 3456' (GR)



17-1.2" Hole
13-3/8" 48# H-40 CSA 224'
Cement w / 250 sx
Circulated to Surface

12-1/4" Hole
9-5/8" 32/36# H-40/J-55 CSA 3049'
Cement w / 1200 sx
TOC @ 1044' (TS)

Blinebry Perfs:
5760 - 6050 (175 Holes)

Tubb Perfs:
6109 - 6457 (39 Holes)

Drinkard Perfs:
6512 - 6725 (317 Holes)

8-3/4" Hole
7" 23/26# J-55 CSA 6759'
Cement w / 775 sx
TOC @ 2975' (TS)

TD @ 6760'

NORTHEAST DRINKARD UNIT

20S 37E

21S 37E

RADIUS 10560'

RADIUS 2640'

- OIL PRODUCER
- GAS PRODUCER
- WATER INJECTION
- SALT WATER SOURCE
- DRY HOLE

N

0 1320 2640 5280 FT.

0 1000 2000 3000 4000 5000 FT.

SCALE

Apache CORPORATION
SOUTHERN REGION

NEDU AREA
LEA COUNTY, NEW MEXICO

CONVERSIONS
Injection Well Permitting
Well #: 310

DATE: 11/29/2000	REVISED: 00\00\00	GEOL : B. USZYNSKI
J:\PER\NEDU\INJ310.DWG	DRAFTED BY: HCS	LANDMAN: M. MORENO

30-025-06367

OPERATOR	Apache Corporation	LEASE	Northeast Drinkard Unit (formerly State 2 # 1)			
WELL NO.	311	1980' FSL & 660' FWL	T	2	21S	37E
		FOOTAGE LOCATION	UNIT	SECTION	TOWNSHIP	RANGE

Well Construction Data

Surface Casing
Size 13-3/8 Cemented with 300 sx
TOC Surface feet determined by Circulation
Hole Size 17-1/2

Intermediate Casing
Size 8-5/8 Cemented with 2000 sx
TOC Surface feet determined by Circulation
Hole Size 11

Long String
Size 5-1/2 Cemented with 500 sx
TOC 3450 feet determined by Free Point
Hole Size 7-7/8

Total Depth 6746

Injection Interval
5650 feet to 6746 feet Perforated and Open Hole
(perforated or open-hole; indicate which)

Tubing Size 2-3/8 lined with IPC set in a
(type of internal coating)
5-1/2" Baker Lok-Set packer at 5550 feet

Other type of tubing / casing seal if applicable N/A

Other Data

1. Is this a new well drilled for injection? ☐ Yes ☑ No
If no, for what purpose was the well originally drilled? Drinkard Producer

2. Name of the Injection formation Blinebry-Tubb-Drinkard

3. Name of Field or Pool (if applicable) Eunice N., Blinebry-Tubb-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. N/A

5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area.
See C-108 Attachment

Well: Northeast Drinkard Unit # 311

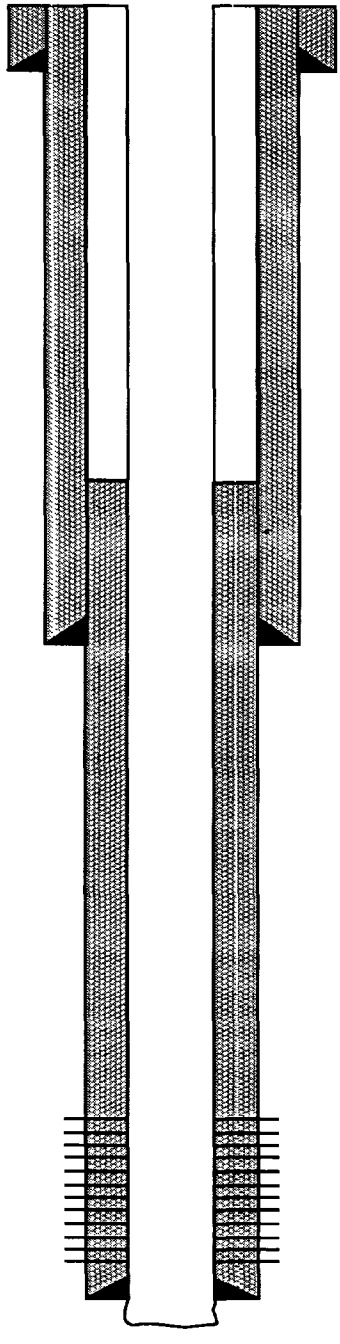
Field: Eunice N. Blinebry-Tubb-Drinkard

Current Status: Active Oil

Location: 1980' FSL & 660' FWL
Unit T, Sec. 2, T21S, R37E
Lea County, New Mexico

API #: 30-025-06367

Elevation: 3469' (GR)



17-1/2" Hole
13-3/8" 32# H-40 CSA 225'
Cement w / 300 sx
Circulated to Surface

11" Hole
8-5/8" 28/32# J-55 CSA 3047'
Cement w / 2000 sx
Circulated to Surface

Blinebry Perfs:
5734 - 6149 (170 Holes)

Tubb Perfs:
6157 - 6508 (75 Holes)

Drinkard Perfs:
6534 - 6626 (40 Holes)
Open Hole:
6670 - 6746

7-7/8" Hole
5-1/2" 15.5# J-55 CSA 6670'
Cement w / 500 sx
TOC @ 3450' (Free Point)

TD @ 6746'

NORTHEAST DRINKARD UNIT

20S 37E

21S 37E

RADIUS 10560'

RADIUS 2640'

NEDU AREA
LEA COUNTY, NEW MEXICO

CONVERSIONS
Injection Well Permitting
Well # : 311

- OIL PRODUCER
- GAS PRODUCER
- WATER INJECTION
- SALT WATER SOURCE
- DRY HOLE

N

0 1320 2640 5280 FT.

0 1000 2000 3000 4000 5000 FT.

SCALE

Apache CORPORATION SOUTHERN REGION

DATE: 11/29/2000	REVISED: 00\00\00	GEOL : B. USZYNSKI
J:\PER\NEDU\INJ311.DWG	DRAFTED BY: HGS	LANDMAN: M. MORENO

30-025-06454

OPERATOR **Apache Corporation** LEASE **Northeast Drinkard Unit (formerly Hawk B-10 # 2)**

WELL NO. **404** **1980' FNL & 2310' FWL** **F** **10** **21S** **37E**

FOOTAGE LOCATION UNIT SECTION TOWNSHIP RANGE

Well Construction Data

Surface Casing

Size **10-3/4** Cemented with **250 sx**

TOC **Surface** feet determined by **Circulation**

Hole Size **13-3/4**

Intermediate Casing

Size **7-5/8** Cemented with **1360 sx**

TOC **1125** feet determined by **Temp Survey**

Hole Size **9-7/8**

Long String

Size **5-1/2** Cemented with **470 sx**

TOC **3250** feet determined by **Temp Survey**

Hole Size **6-3/4**

Total Depth **8079**

Injection Interval

5580 feet to **6790** feet **Perforated**

(perforated or open-hole; indicate which)

Tubing Size **2-3/8** lined with **IPC** set in a

(type of internal coating)

5-1/2" Baker Lok-Set packer at **5480** feet

Other type of tubing / casing seal if applicable **N/A**

Other Data

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

   If no, for what purpose was the well originally drilled? **Ellenburger Producer**

2. Name of the Injection formation **Blinebry-Tubb-Drinkard**

3. Name of Field or Pool (if applicable) **Eunice N., Blinebry-Tubb-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. **Ellenburger** 7966 - 8073 / **CIBP** @ 6800' w/ 10' cement

5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area.
   See C-108 Attachment

Well: Northeast Drinkard Unit # 404

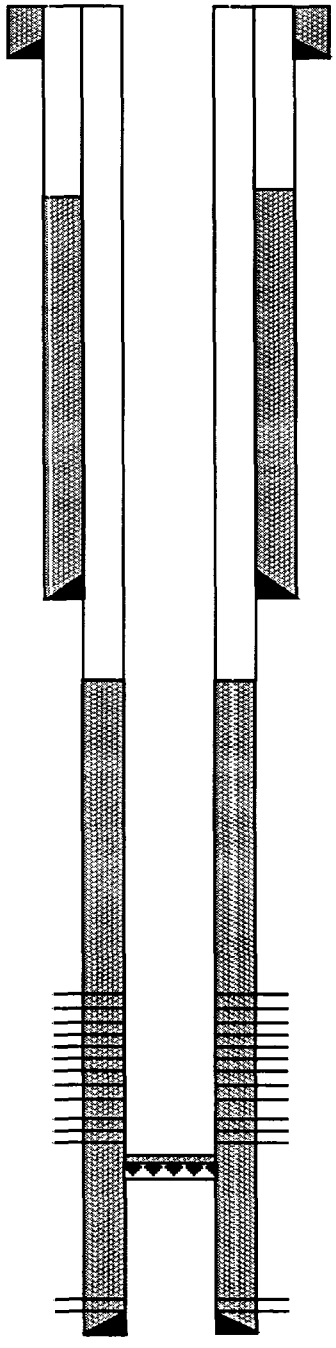
Field: Eunice N. Blinebry-Tubb-Drinkard

Current Status: Active Oil

Location: 1980' FNL & 2310' FWL
Unit F, Sec. 10, T21S, R37E
Lea County, New Mexico

API #: 30-025-06454

Elevation: 3450' (GR)



13-3/4" Hole
10-3/4" 33/36# H-40 CSA 270'
Cement w / 250 sx
Circulated to Surface

9-7/8" Hole
7-5/8" 24# J-55 CSA 3149'
Cement w / 1360 sx
TOC @ 1125' (TS)

Blinebry Perfs:
5680 - 6047 (41 Holes)

Tubb Perfs:
6093 - 6470 (36 Holes)

Drinkard Perfs:
6545 - 6766 (33 Holes)

CIBP @ 6800' w/ 10' cement

Ellenburger Perfs:
7966 - 8073 (344 Holes)

6-3/4" Hole
5-1/2" 14/15.5/17# J-55 CSA 8078'
Cement w / 470 sx
TOC @ 3250' (TS)

TD @ 8079'

NORTHEAST DRINKARD UNIT

20S 37E

21S 37E

RADIUS 10560'

RADIUS 2640'

- OIL PRODUCER
- GAS PRODUCER
- WATER INJECTION
- SALT WATER SOURCE
- DRY HOLE

N

0 1320 2640 5280 FT.

0 1000 2000 3000 4000 5000 FT.

SCALE

Apache CORPORATION
SOUTHERN REGION

NEDU AREA
LEA COUNTY, NEW MEXICO

CONVERSIONS
Injection Well Permitting
Well #: 404

DATE: 11/29/2000	REVISED: 00\00\00	GEOL : B. USZYNSKI
J:\PER\NEDU\INJ404.DWG	DRAFTED BY: HGS	LANDMAN: M. MORENO

30 025 06453

OPERATOR **Apache Corporation** LEASE **Northeast Drinkard Unit (formerly Hawk B-10 # 4)**

WELL NO. **410** **1980' FNL & 660' FEL** **H** **10** **21S** **37E**

FOOTAGE LOCATION UNIT SECTION TOWNSHIP RANGE

Well Construction Data

Surface Casing

Size **10-3/4** Cemented with **250 sx**

TOC **Surface** feet determined by **Circulation**

Hole Size **13-3/4**

Intermediate Casing

Size **7-5/8** Cemented with **1695 sx**

TOC **550** feet determined by **Temp Survey**

Hole Size **9-7/8**

Long String

Size **5-1/2** Cemented with **529 sx**

TOC **Surface** feet determined by **Circulation**

Hole Size **6-3/4**

Total Depth **7728**

Injection Interval

5560 feet to **6720** feet **Perforated**

(perforated or open-hole; indicate which)

Tubing Size **2-3/8** lined with **IPC** (type of internal coating) set in a **5-1/2" Baker Lok-Set** packer at **5460** feet

Other type of tubing / casing seal if applicable **N/A**

Other Data

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

If no, for what purpose was the well originally drilled? **Ellenburger Producer**

2. Name of the Injection formation **Blinebry-Tubb-Drinkard**

3. Name of Field or Pool (if applicable) **Eunice N., Blinebry-Tubb-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. **Ellenburger** 7584 - 7690 / **CIBP @** 7420' w/ 10' cement / **Abo** 6721 - 7366 / Cement squeezed w/ ? Sx

5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area.
See C-108 Attachment

Well: Northeast Drinkard Unit # 410

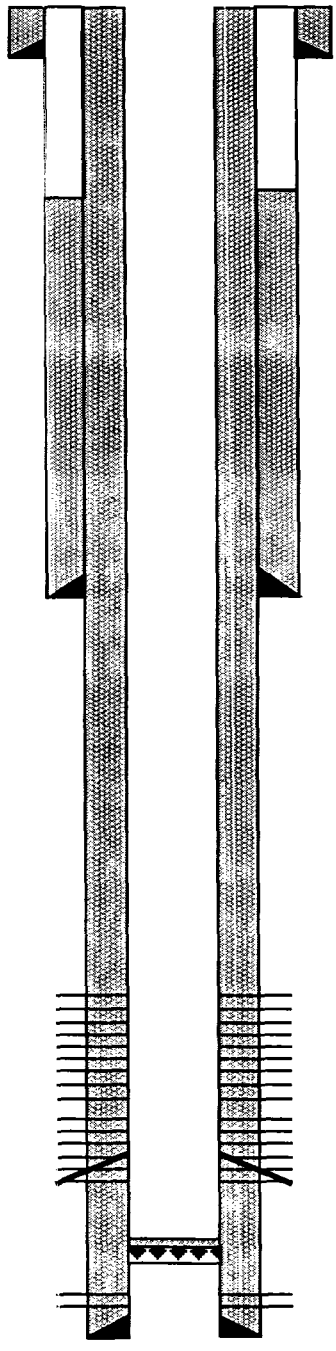
Field: Eunice N. Blinebry-Tubb-Drinkard

Current Status: Active Oil

Location: 1980' FNL & 660' FEL
Unit H, Sec. 10, T21S, R37E
Lea County, New Mexico

API #: 30-025-06453

Elevation: 3415' (GR)



13-3/4" Hole
10-3/4" 36# H-40 CSA 260'
Cement w / 250 sx
Circulated to Surface

9-7/8" Hole
7-5/8" 26# J-55 CSA 3099'
Cement w / 1695 sx
TOC @ 550' (TS)

Blinebry Perfs:
5707 - 6104 (41 Holes)

Tubb Perfs:
6246 - 6368 (10 Holes)

Drinkard Perfs:
6472 - 6650 (18 Holes)

Abo Perfs:
6721 - 7366 (19 Holes)
Cement squeezed w/ ? sx

CIBP @ 7420' w/ 10' cement

Ellenburger Perfs:
7584 - 7690 (356 Holes)

6-3/4" Hole
5-1/2" 15.5# J-55 CSA 7727'
Cement w / 529 sx
Circulated to Surface

TD @ 7728'

NORTHEAST DRINKARD UNIT

20S 37E

21S 37E

RADIUS 10560'

RADIUS 2640'

NEDU AREA
LEA COUNTY, NEW MEXICO

CONVERSIONS
Injection Well Permitting
Well #: 410

- OIL PRODUCER
- GAS PRODUCER
- WATER INJECTION
- SALT WATER SOURCE
- DRY HOLE

0 1320 2640 5280 FT.

0 1000 2000 3000 4000 5000 FT.

SCALE

Apache CORPORATION SOUTHERN REGION

DATE: 11/29/2000	REVISED: 00\00\00	GEOL : B. USZYNSKI
J:\PER\NEDU\INJ410.DWG	DRAFTED BY: HGS	LANDMAN: M. MORENO

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, KATHI BEARDEN

Publisher

of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period.

of 1

weeks.

Beginning with the issue dated

November 26 2000

and ending with the issue dated

November 26 2000

Kathi Bearden

Publisher

Sworn and subscribed to before me this 27th day of November 2000

Jodi Henson

Notary Public.

My Commission expires
October 18, 2004
(Seal)

LEGAL NOTICE
November 26, 2000

Notice is hereby given of the application of Apache Corporation, 2000 Post Oak Blvd., Ste. 100, Houston, TX 77056, (713) 296-6000, to the Oil Conservation Division, New Mexico Energy, Minerals and Natural Resources Department for approval of the following injection wells for the purpose of secondary recovery.

Pool Name: Eunice, Blinebry-Tubb-Drinkard, North
All wells are located in Lea County, New Mexico
Lease/Unit Name: Northeast Drinkard Unit
Well No. 102 - (formerly Taylor Glenn # 7)
Location: 1582' FNL & 990' FEL, Section 4, T21S, R37E, Unit H
Well No. 103 - (formerly Hawk B-3 # 17)
Location: 660' FNL & 660' FWL, Section 3, T21S, R37E, Unit D
Well No. 106 - (formerly Hawk B-3 # 16)
Location: 660' FNL & 1980' FWL, Section 3, T21S, R37E, Unit C
Well No. 112 - (formerly Hawk B-3 # 14)
Location 660' FNL & 660' FEL, Section 3, T21S, R37E, Unit A
Well No. 122 (formerly Harry Leonard # 17)
Location: 897' FNL & 990' FEL, Section 2, T21S, R37E, Unit A
Well No. 123 (formerly Harry Leonard # 16)
Location: 2217' FNL & 989' FEL, Section 2, T21S, R37E, Unit H
Well No. 204 - (formerly Hawk B-3 # 22)
Location: 3300' FNL & 760' FWL, Section 3, T21S, R37E, Unit L
Well No. 207 - (formerly Livingston # 8)
Location: 2970' FSL & 2308' FWL, Section 3, T21S, R37E, Unit N
Well 223 - (formerly Harry Leonard # 11)
Location: 2970' FSL & 990' FEL, Section 2, T21S, R37E, Unit P
Well No. 304 - (formerly Livingston # 9)
Location: 915' FSL & 2208' FWL, Section 3, T21S, R37E, Unit V
Well No. 305 - (formerly Hawk B-3 # 12)
Location: 1980' FSL & 1980' FEL, Section 3, T21S, R37E, Unit R
Well No. 306 - (formerly Hawk B-3 # 5)
Location: 1980' FNL & 1830' FEL, Section 3, T21S, R37E, Unit R
Well No. 310 - (formerly Hawk B-3 # 13)
Location: 660' FSL 660' FEL, Section 3, T21S, R37E, Unit X
Well No. 311 - (formerly State 2 # 1)
Location: 1980' FSL & 660' FWL, Section 2, T21S, R37E, Unit T
Well No. 404 - (formerly Hawk B-10 # 2)
Location: 1980' FNL & 2310' FWL, Section 10, T21S, R37E, Unit F
Well No. 410 - (formerly Hawk B-10 # 4)
Location: 1980' FNL & 660' FEL, Section 10, T21S, R37E, Unit H

The injection formations are the Blinebry, Tubb and Drinkard located between the interval of 5450' MD to 7050' MD below the surface of the ground. Expected maximum injection rate is 2000 barrels per day and the expected maximum injection pressure is 1200 psi. Interested parties must file objections or requests for hearing with the Oil Conservation Division, 2040 S. Pacheco, Santa Fe, NM 87505 within fifteen days.

#17762

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

02102716000 02543116

Apache Corporation
2000 Post Oak Boulevard Suite 100
Houston, TX 77056-4400

APPLICATION TO EXPAND WATERFLOOD
NORTHEAST DRINKARD UNIT
SURFACE OWNERS

State of New Mexico
Office of Land Commissioner
P O Box 1148
State Land Office Bldg.
Santa Fe, New Mexico 87504-1148
Certified Rcpt. # Z 116 149 401

Bureau of Land Management
2909 West 2nd Street
Roswell, New Mexico 88201
Certified Rcpt. # Z 116 149 402

Farm & Ranch Ltd Ptn
Robert McCasland
P O Box 206
Eunice, New Mexico 88231
Certified Rcpt. # Z 116 149 403

William F McNeill Et Al
c/o Page McNeill
McNeill Ranch
P O Box 1092
Eunice, New Mexico 88240
Certified Rcpt. # Z 116 149 404

Dora "B" Newson
for Joe Taylor Et Al & RB Glenn
c/o Florence Newson
3383-C Punta-Alta
Laguna Hills, California 92653
Certified Rcpt. # Z 116 149 407

GP Sims
P O Box 1046
Eunice, New Mexico 88231
Certified Rcpt. # Z 116 149 408

Will N. Terry Trust, et al
c/o Page McNeill
McNeilL Ranch
P O Box 1092
Eunice, New Mexico 88240
Certified Rcpt. # Z 116 149 409

A copy of the application to expand the Northeast Drinkard Waterflood was mailed to the Surface Land Owners listed above on April 12, 2001.

Debra J. Anderson, Sr. Engineering Technician

4-12-01
Date

2000 POST OAK BOULEVARD / SUITE 100 / HOUSTON, TEXAS 77056-4400

apache CORPORATION

WWW.APACHECORP.COM
(713) 296-6000

April 12, 2001

Surface Owner

Re: Application to Expand Waterflood Project
Northeast Drinkard Unit
Well No. 102, 103, 106, 112, 122, 123, 204, 207, 223,
304, 305, 306, 310, 311, 404, 410
Eunice N., Blinebry-Tubb-Drinkard
Lea County, New Mexico

Attached please find a copy of completed form C-108 with attachments on the above referenced wells, which Apache Corporation has filed with the New Mexico Oil Conservation Division.

Sincerely,

APACHE CORPORATION

Debra J. Anderson
Sr. Engineering Technician

Attachments

cc: State of New Mexico
Energy, Minerals & Natural Resources Dept.
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

APPLICATION TO EXPAND WATERFLOOD
NORTHEAST DRINKARD UNIT
OFFSET OPERATORS

Lewis B Burleson Inc.
Box 2479
Midland, Texas 79702
Certified Rcpt. # Z 116 149 410

Campbell & Hedrick
Box 401
Midland, Texas 79701
Certified Rcpt. # Z 116 149 411

Chevron USA Inc
Box 688
Eunice, New Mexico 88231
Certified Rcpt. # Z 116 149 412

J R Cone
Box 10217
Lubbock, Texas 79408
Certified Rcpt. # Z 116 149 413

Conoco Inc
10 Desta Drive, Ste. 100W
Midland, Texas 79705
Certified Rcpt. # Z 116 149 414

Exxon Company USA
Box 1600
Midland, Texas 79702
Certified Rcpt. # Z 116 149 415

Gruy Petroleum Management
600 E Las Colinas Blvd., Ste1200
Irving, Texas 75014-0907
Certified Rcpt. # Z 116 149 416

John H Hendrix Corporation
Box 3040
Midland, Texas 79702
Certified Rcpt. # Z 116 149 417

Lynx Petroleum Consultants Inc.
Box 1708
Hobbs, New Mexico 88241-1708
Certified Rcpt. # Z 116 149 418

Marathon Oil Company
Box 2409
Hobbs, New Mexico 88240
Certified Rcpt. # Z 116 149 419

Mayne & Mertz Inc.
Box 183
Midland, Texas 79702
Certified Rcpt. # Z 116 149 420

Mewbourne Oil Company
Box 5270
Hobbs, New Mexico 88241
Certified Rcpt. # Z 116 149 421

MGM Oil & Gas Company
P O Box 891
Midland, Texas 79702
Certified Rcpt. # Z 116 149 422

Mirage Energy Inc.
7915 N Llewelyn
Hobbs, New Mexico 88242
Certified Rcpt. # Z 116 149 423

Morexco Inc.
1211 W Chisum Avenue
Artesia, New Mexico 88211
Certified Rcpt. # Z 116 149 424

Permian Resources Inc.
608 N Main Street, Suite 200
Midland, Texas 79702
Certified Rcpt. # Z 116 149 425

SDX Resources Inc.
511 W Ohio Avenue, Suite 601
Midland, Texas 79704
Certified Rcpt. # Z 116 149 426

Stephens & Johnson Oper. Co.
Box 2249
Wichita Falls, Texas 76307-2249
Certified Rcpt. # Z 116 149 427

Texaco Expl & Prod Inc.
Hobbs Operating Unit
P O Box 3109
Midland, Texas 79702
Certified Rcpt. # Z 116 149 428

Xeric Oil & Gas Corporation
201 W Wall, Suite 700
Midland, Texas 79702
Certified Rcpt. # Z 116 149 431

Zia Energy Inc.
Box 2510
Hobbs, New Mexico 88241-2510
Certified Rcpt. # Z 116 149 432

A copy of the application to expand the Northeast Drinkard Waterflood was mailed to the Offset Operators listed above on April 12, 2001

Debra J. Anderson

Debra J. Anderson, Sr. Engineering Technician

4-12-01
Date

2000 POST OAK BOULEVARD / SUITE 100 / HOUSTON, TEXAS 77056-4400

apache CORPORATION

WWW.APACHECORP.COM
(713) 296-6000

April 12, 2001

Offset Operator

Re: Application to Expand Waterflood Project
Northeast Drinkard Unit
Well No. 102, 103, 106, 112, 122, 123, 204, 207, 223,
304, 305, 306, 310, 311, 404, 410
Eunice N., Blinebry-Tubb-Drinkard
Lea County, New Mexico

Attached please find a copy of completed form C-108 with attachments and a plat of Apache Corporation's lease, which we have filed with the New Mexico Oil Conservation Division. The plat shows the referenced wells in relation to your offset operations.

Sincerely,

APACHE CORPORATION

Debra J. Anderson
Sr. Engineering Technician

Attachments

cc: State of New Mexico
Energy, Minerals & Natural Resources Dept.
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

AREA OF REVIEW / WELL DATA

WELL NAME	API NO.	S / T / R	LOCATION	WELL TYPE	COMP DATE	TD	SURFACE CASING				INTERMEDIATE CASING				PRODUCTION CASING					LINER				
							HOLE	CSG	SET	CMT	HOLE	CSG	SET	CMT	HOLE	CSG	SET	CMT	TOC	HOLE	LINER	DEPTH	CMT	TOC
Peter State # 1	30-025-27048	32/20S/38E	660 FSL-1980 FEL	O	12/23/80	7097	12-1/4	8-5/8	1406	725					7-7/8	5-1/2	7097	2250	0 (C)					
DeKalb State # 1	30-025-07871	32/20S/38E	660 FSL-660 FEL	P&A	7/13/54	5935	17-1/2	13-3/8	265	250	12-1/4	9-5/8	2900	250	7-7/8	5-1/2	5935	200	4792 (C)					
Warren Unit # 15	30-025-07875	33/20S/38E	660 FSL-660 FEL	O	3/26/55	6050	13-3/4	10-3/4	249	250	9-7/8	7-5/8	3049	1150	6-3/4	5-1/2	6048	680	0 (C)					
Warren Unit # 16	30-025-07876	33/20S/38E	660 FSL-1980 FEL	O	5/15/55	6050	13-3/4	10-3/4	274	250	9-7/8	7-5/8	3049	1111	6-3/4	5-1/2	6049	541	0 (C)					
Warren Unit # 76	30-025-26313	33/20S/38E	1980 FSL-1980 FEL	O	7/21/79	6150	12-1/4	8-5/8	1425	700					7-7/8	5-1/2	6150	1693	0 (C)					
Warren Unit # 93	30-025-27584	33/20S/38E	660 FSL-1980 FWL	O	6/24/82	7000	12-1/4	9-5/8	1400	525					8-3/4	7	6995	1192	0 (C)					
Warren Unit # 202	30-025-33624	33/20S/38E	1330 FSL-1310 FEL	O	2/11/97	6800	12-1/4	8-5/8	1505	700					7-7/8	5-1/2	6800	1305	0 (C)					
Warren Unit # 12	30-025-07880	34/20S/38E	660 FSL-1980 FWL	O	10/31/54	6198	13-3/4	10-3/4	252	250	9-7/8	7-5/8	3049	1120	6-3/4	5-1/2	6197	415	1278 (C)					
Warren Unit # 13	30-025-07881	34/20S/38E	660 FSL-1980 FEL	O	11/30/54	6050	13-3/4	10-3/4	284	250	9-7/8	7-5/8	3087	1255	6-3/4	5-1/2	6049	466	525 (C)					
Warren Unit # 14	30-025-07889	34/20S/38E	660 FSL-660 FWL	O	1/26/55	6020	13-3/4	10-3/4	256	250	9-7/8	7-5/8	3051	1150	6-3/4	5-1/2	6019	336	2036 (C)					
Warren Unit # 18	30-025-07883	34/20S/38E	1980 FSL-660 FWL	O	9/30/55	6008	17-1/2	13-3/8	263	250	12-1/4	9-5/8	3049	954	8-3/4	7	6007	540	2451 (C)					
Warren Unit # 203	30-025-32995	34/20S/38E	1330 FSL-10 FWL	O	10/3/95	6982	12-1/4	8-5/8	1510	920					7-7/8	5-1/2	6982	1325	0 (C)					
Warren Unit # 204	30-025-33640	34/20S/38E	1330 FSL-1330 FWL	O	2/10/97	6750	12-1/4	8-5/8	1490	650					7-7/8	5-1/2	6750	1205	0 (C)					
Anna Federal # 1	30-025-23355	1/21S/37E	990 FNL-330 FWL	O	1/17/70	7600	12-1/4	9-5/8	808	300					8-3/4	7	7593	750	2654 (C)					
Coogan Federal # 3	30-025-30640	1/21S/37E	2875 FNL-990 FWL	O	8/25/89	7780	12-1/4	8-5/8	1560	600					7-7/8	5-1/2	7780	1275	494 (C)					
Dauron # 1	30-025-06338	1/21S/37E	2214 FNL-330 FWL	O	2/15/55	5960	13-3/4	10-3/4	224	200	9-7/8	7-5/8	3045	1100	6-3/4	5-1/2	5935	200	3564 (C)	4-3/4	4	7510	150	3361 (C)
Dauron # 5	30-025-30835	1/21S/37E	2214 FNL-1650 FWL	O	6/15/90	7734	12-1/4	8-5/8	1650	345					7-7/8	5-1/2	7726	1300	298 (C)					
Elliott Federal B # 1	30-025-06325	1/21S/37E	2970 FSL-330 FWL	O	7/30/54	5971	13-3/4	10-3/4	~~277~~ 291	200	9-7/8	7-5/8	3145	550	6-3/4	5-1/2	5880	350	1731 (C)					
Elliott Federal B # 2	30-025-06326	1/21S/37E	2970 FSL-1650 FWL	O	10/8/54	6001	13-3/4	10-3/4	218	250	9-7/8	7-5/8	3087	1150	6-3/4	5-1/2	5885	350	1736 (C)					
Elliott Federal B # 4	30-025-06328	1/21S/37E	3630 FNL-330 FWL	O	12/13/54	7000	12-1/4	8-5/8	1029	1300					7-7/8	5-1/2	5890	500	3033 (C)	4-3/4	4	5663-7000	60	5663
Elliott Federal # 1	30-025-06332	1/21S/37E	1650 FSL-330 FWL	O	3/3/52	8613	17-1/2	13-3/8	240	225	11	8-5/8	3157	1500	7-7/8	5-1/2	7370	525	5074 (C)					
NEDU # 114 (State # 6)	30-025-06344	2/21S/37E	906 FNL-660 FWL	WI	5/5/54	6896	17-1/2	13-3/8	208	240	11	8-5/8	3008	1750	7-7/8	5-1/2	6030	250	4780 (T)	4	3-1/2	5645-6896	100	5645
NEDU # 115 (State # 2)	30-025-06340	2/21S/37E	1896 FNL-660 FWL	WI	8/3/51	8620	17-1/2	13-3/8	152	165	12-1/4	9-5/8	3005	1600	7-7/8	5-1/2	8500	550	4255 (T)					
NEDU # 116 (State # 8)	30-025-06346	2/21S/37E	5790 FSL-660 FWL	WI	1/26/56	6010	17-1/2	13-3/8	218	200	11	8-5/8	3092	2100	7-7/8	5-1/2	6010	210	4200 (T)					
NEDU # 117 (State # 7)	30-025-06345	2/21S/37E	921 FNL-1650 FWL	WI	6/23/54	6996	17-1/2	13-3/8	215	245	11	8-5/8	3030	2100	7-7/8	5-1/2	6030	200	4930 (T)	4	3-1/2	5708-6945	100	
NEDU # 118 (State # 9)	30-025-06347	2/21S/37E	1973 FNL-1650 FWL	O	7/16/62	6150	17-1/2	13-3/8	326	335					7-7/8	4-1/2	5682	570	2560 (T)					
NEDU # 119 (State # 5)	30-025-06343	2/21S/37E	5610 FSL-1650 FWL	O	7/20/53	6850	17-1/2	13-3/8	200	225	11	8-5/8	3015	1650	7-7/8	5-1/2	5980	225	4715 (T)	4	3-1/2	5955-6850	75	
NEDU # 120 (Harry Leonard NCT-F # 13)	30-025-06357	2/21S/37E	990 FNL-2310 FEL	O	8/29/54	5995	17-1/2	13-3/8	318	425	11	8-5/8	3099	2025	7-7/8	5-1/2	5879	670	2760 (T)					
NEDU # 121 (Harry Leonard NCT-F # 10)	30-025-06354	2/21S/37E	2220 FNL-2307 FEL	WI	5/6/54	5950	17-1/2	13-3/8	375	425	11	8-5/8	3021	1550	7-7/8	5-1/2	5844	560	3100 (T)					
NEDU # 126	30-025-34415	2/21S/37E	2500 FNL-130 FWL	O	9/25/98	6940	11	8-5/8	1396	410					7-7/8	5-1/2	6940	1350	Surface					
NEDU # 127	30-025-34426	2/21S/37E	2600 FNL-1200 FWL	O	10/14/98	6980	11	8-5/8	1390	410					7-7/8	5-1/2	6980	1200	Surface					
NEDU # 132	30-025-34601	2/21S/37E	1339 FNL-130 FWL	O	7/24/99	6970	12-1/4	8-5/8	1323	380					7-7/8	5-1/2	6970	1250	Surface					
NEDU # 133	30-025-34600	2/21S/37E	1458 FNL-1098 FWL	O	8/1/99	6980	12-1/4	8-5/8	1333	460					7-7/8	5-1/2	6980	1660	Surface					
NEDU # 135	30-025-34796	2/21S/37E	1450 FNL-2280 FWL	O	2/27/00	6610	12-1/4	8-5/8	1273	460					7-7/8	5-1/2	6610	1300	Surface					
NEDU # 136	30-025-34882	2/21S/37E	1450 FNL-1700 FEL	O	8/8/00	6370	12-1/4	8-5/8	1365	460					7-7/8	5-1/2	6370	1275	Surface					
NEDU # 213 (State Sec 2 # 2)	30-025-06368	2/21S/37E	4620 FSL-660 FWL	O	12/5/49	6760	17-1/2	13-3/8	224	300	11	8-5/8	2936	2200	7-7/8	5-1/2	6660	600	3610 (T)					
NEDU # 214 (State # 1)	30-025-06491	2/21S/37E	3300 FSL-660 FWL	WI	6/25/49	6810	17-1/2	13-3/8	145	150	12-1/4	9-5/8	2939	1600	8-3/4	7	6810	600	1970 (T)					
NEDU # 215 (State # 3)	30-025-06341	2/21S/37E	3175 FSL-660 FWL	WI	4/19/51	8083	17-1/2	13-3/8	240	200	11	8-5/8	3000	1800	7-7/8	5-1/2	8010	550	4060 (T)					
NEDU # 216 (State # 15)	30-025-06483	2/21S/37E	3546 FNL-1650 FWL	WI	7/28/52	8147	17-1/2	13-3/8	223	250	11	8-5/8	3148	1600						7-7/8	5-1/2	2991-8010	800	2991
NEDU # 217 (State # 17)	30-025-06485	2/21S/37E	2886 FNL-2970 FEL	O	7/15/54	5952	17-1/2	13-3/8	250	250	11	8-5/8	3127	1500	7-7/8	5-1/2	5816	100	5245 (C)					
NEDU # 218 (State # 16)	30-025-06484	2/21S/37E	3546 FNL-1700 FWL	WI	9/17/52	8000	17-1/2	13-3/8	222	250	11	8-5/8	3150	1800						7-7/8	5-1/2	2932-7997	825	2932
NEDU # 219 (State # 18)	30-025-06486	2/21S/37E	3550 FSL-2300 FWL	O	3/17/55	5956	17-1/2	13-3/8	256	250	11	8-5/8	3108	1600	7-7/8	5-1/2	5955	200	4812 (C)					
NEDU # 220 (Harry Leonard NCT-F # 14)	30-025-06358	2/21S/37E	2886 FNL-2307 FEL	O	9/30/54	5975	17-1/2	13-3/8	330	350	11	8-5/8	3548	1500	7-7/8	5-1/2	5829	500	2727 (T)					
NEDU # 221 (Harry Leonard NCT-F # 6)	30-025-06350	2/21S/37E	2982 FSL-2317 FEL	WI	3/18/53	8285	17-1/2	13-3/8	271	300	11	8-5/8	2498	1700	7-7/8	5-1/2	8285	675	4085 (T)					
NEDU # 222 (Harry Leonard # 12)	30-025-06356	2/21S/37E	3534 FNL-990 FEL	WI	8/2/54	5975	17-1/2	13-3/8	332	450	11	8-5/8	3039	1900	7-7/8	5-1/2	5859	475	2480 (T)					
NEDU # 224 (Harry Leonard # 7)	30-025-06351	2/21S/37E	4303 FSL-2317 FEL	WI	4/20/53	8700	17-1/2	13-3/8	299	350	12-1/4	9-5/8	2999	1350	7-7/8	5-1/2	8280	700	3750 (T)					
NEDU # 225	30-025-34249	2/21S/37E	2540 FSL-175 FWL	O	6/3/98	6850	11	8-5/8	1402	410					7-7/8	5-1/2	6850	2250	Surface					

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AREA OF REVIEW / WELL DATA

WELL NAME	API NO.	S / T / R	LOCATION	WELL TYPE	COMP DATE	TD	SURFACE CASING HOLE	CSG	SET	CMT	INTERMEDIATE CASING HOLE	CSG	SET	CMT	PRODUCTION CASING HOLE	CSG	SET	CMT	TOC	LINER HOLE	LINER	DEPTH	CMT	TOC
NEDU # 230	30-025-34412	2/21S/37E	3677 FSL-135 FWL	O	8/30/98	6930	11	8-5/8	1363	400					7-7/8	5-1/2	6930	1305	Surface					
NEDU # 231	30-025-34411	2/21S/37E	3800 FSL-1200 FWL	O	8/26/98	6940	11	8-5/8	1382	410					7-7/8	5-1/2	6940	1450	Surface					
NEDU # 235	30-025-34883	2/21S/37E	2800 FNL-1700 FEL	O	8/24/00	6370	12-1/4	8-5/8	1347	460					7-7/8	5-1/2	6370	1050	Surface					
NEDU # 236	30-025-34797	2/21S/37E	2650 FSL-1700 FEL	O	3/2/00	6304	12-1/4	8-5/8	1290	460					7-7/8	5-1/2	6304	1150	Surface					
NEDU # 237	30-025-34884	2/21S/37E	2450 FSL-1700 FEL	O	5/25/00	6300	12-1/4	8-5/8	1336	460					7-7/8	5-1/2	6300	1110	Surface					
NEDU # 312 (State # 21)	30-025-06489	2/21S/37E	2205 FSL-988 FWL	O	8/25/56	5925	17-1/2	13-3/8	301	300	11	8-5/8	3148	1400	7-7/8	5-1/2	5922	100	3140 (B)					
NEDU # 313 (State Sec 2 # 4)	30-025-06370	2/21S/37E	710 FSL-610 FWL	WI	11/18/50	6718	17-1/2	13-3/8	228	250	11	8-5/8	3150	1700	7-7/8	5-1/2	6536	500	3679 (C)					
NEDU # 314 (State # 22)	30-025-06490	2/21S/37E	990 FSL-990 FWL	O	10/20/56	5910	17-1/2	13-3/8	303	300	11	8-5/8	3148	1100	7-7/8	5-1/2	5812	200	4669 (C)					
NEDU # 315 (State Sec 2 # 9)	30-025-06375	2/21S/37E	1980 FSL-1880 FWL	WI	12/3/51	6704	17-1/2	13-3/8	208	250	11	8-5/8	3145	2000						7-7/8	5-1/2	2940-6701	755	2940
NEDU # 316 (State # 19)	30-025-06487	2/21S/37E	2310 FSL-2307 FWL	O	10/25/55	5950	17-1/2	13-3/8	298	300	11	8-5/8	3199	1450	7-7/8	5-1/2	5950	200	4800 (C)					
NEDU # 317 (State # 20)	30-025-06488	2/21S/37E	990 FSL-2300 FWL	O	5/5/56	5914	17-1/2	13-3/8	283	300	11	8-5/8	3148	1500	7-7/8	5-1/2	5913	1050	1723 (C)					
NEDU # 318 (Harry Leonard NCT-F # 18)	30-025-06365	2/21S/37E	1650 FSL-1980 FEL	WI	1/29/55	5925	17-1/2	13-3/8	312	375	12-1/4	9-5/8	3340	1655	7-7/8	5-1/2	5764	675	3375 (T)					
NEDU # 319 (Harry Leonard NCT-F # 9)	30-025-06353	2/21S/37E	1650 FSL-990 FEL	WI	8/3/53	8470	17-1/2	13-3/8	109	150	11	8-5/8	3099	1375	7-7/8	5-1/2	8300	180	7095 (F)					
							Cut original 5-1/2" @ 7095' & pulled / reran 5-1/2" to										6019	600	2400 (T)	4-3/4	4	5571-7587	825	5571
NEDU # 320 (Harry Leonard NCT-F # 19)	30-025-06366	2/21S/37E	660 FSL-1780 FEL	WI	2/24/55	5925	17-1/2	13-3/8	334	575	11	8-5/8	3049	2000	7-7/8	5-1/2	5769	825	2080 (T)					
NEDU # 321 (Harry Leonard # 8)	30-025-06352	2/21S/37E	660 FSL-330 FEL	O	5/20/53	5970	15	12-3/4	309	350	11	8-5/8	3099	2300	7-7/8	5-1/2	5750	195	4623 (T)					
NEDU # 322 (State Sec 2 # 6)	30-025-06372	2/21S/37E	1980 FSL-1980 FWL	WI	7/11/51	8207	17-1/2	13-3/8	225	330	11	8-5/8	3769	2000	7-7/8	5-1/2	8065	1530	Surface					
NEDU # 323 (Harry Leonard NTC-F # 1)	30-025-06361	2/21S/37E	1980 FSL-1980 FEL	O	12/9/51	8350	19-1/2	16	253	300	13-3/4	10-3/4	2904	1600	8-3/4	7	8350	300	3665 (T)					
NEDU # 324 (Harry Leonard # 12)	30-025-06348	2/21S/37E	860 FSL-1980 FEL	O	5/11/52	7778	17-1/4	12-3/4	259	300	11	8-5/8	2989	1100	7-7/8	5-1/2	7777	870	3320 (T)					
NEDU # 325 (Harry Leonard # 5)	30-025-06349	2/21S/37E	555 FSL-555 FEL	O	6/20/52	8013	17-1/2	12-3/4	287	300	11	8-5/8	3049	1100	7-7/8	5-1/2	8008	925	3075 (T)					
NEDU # 330	30-025-34414	2/21S/37E	1004 FSL-200 FWL	O	11/5/98	6910	11	8-5/8	1350	410					7-7/8	5-1/2	6910	1375	Surface					
Harry Leonard NCT-F # 2	30-025-06362	2/21S/37E	660 FSL-1980 FEL	G	2/3/52	7926	17-1/2	13-3/8	264	300	12-1/4	9-5/8	3026	1200	8-3/4	7	7925	850	3068 (C)					
Harry Leonard NCT-F # 3	30-025-06363	2/21S/37E	660 FSL-660 FEL	O	3/26/52	8168	17-1/2	13-3/8	225	350	11	8-5/8	2084	1075	7-7/8	5	8167	975	3386 (C)					
Harry Leonard NCT-F # 15	30-025-06359	2/21S/37E	3312 FSL-2317 FEL	O	10/4/54	8150	17-1/2	13-3/8	325	375	11	8-5/8	3003	1350	7-7/8	5-1/2	8149	950	2721 (C)					
State # 4	30-025-06342	2/21S/37E	2970 FSL-990 FWL	O	2/18/52	8005	17-1/2	13-3/8	253	240	11	8-5/8	2996	2400	7-7/8	5-1/2	8004	550	4861 (C)					
State Sec 2 # 3	30-025-06369	2/21S/37E	660 FSL-660 FWL	O	9/16/50	7906	17-1/2	13-3/8	223	300	11	8-5/8	3150	2200	7-7/8	5-1/2	7760	500	4902 (C)					
State Sec 2 # 5	30-025-06371	2/21S/37E	1880 FSL-560 FWL	O	1/29/51	7956	17-1/2	13-3/8	224	250	11	8-5/8	3142	2000	7-7/8	5-1/2	7810	500	4953 (C)					
State Sec 2 # 7	30-025-06373	2/21S/37E	660 FSL-1980 FWL	O	9/8/51	7854	17-1/2	13-3/8	225	250	11	8-5/8	3162	1950	7-7/8	5-1/2	7852	825	3138 (C)					
State Sec 2 # 8	30-025-06374	2/21S/37E	3546 FNL-660 FWL	O	11/7/51	8156	17-1/2	13-3/8	219	250	11	8-5/8	3147	2000	7-7/8	5-1/2	8018	500	5161 (C)					
State Sec 2 # 10	30-025-06376	2/21S/37E	2310 FSL-988 FWL	O	1/20/52	7985	17-1/2	13-3/8	211	250	11	8-5/8	3152	1700	7-7/8	5-1/2	7984	870	3013 (C)					
State Sec 2 # 11	30-025-06377	2/21S/37E	3376 FNL-330 FWL	O	3/8/52	8015	17-1/2	13-3/8	211	250	11	8-5/8	3140	2000	7-7/8	5-1/2	8014	850	3157 (C)					
State Sec 2 # 12	30-025-06378	2/21S/37E	2250 FSL-2140 FWL	[redacted]	3/1/52	8075	17-1/2	13-3/8	211	250	11	8-5/8	3150	2200	7-7/8	5-1/2	8072	850	3215 (C)					
State Sec 2 # 13	30-025-06379	2/21S/37E	2970 FSL-1650 FWL	O	4/19/52	8143	17-1/2	13-3/8	193	250	11	8-5/8	3148	1900	7-7/8	5-1/2	8032	500	5175 (C)					
State Sec 2 # 14	30-025-06380	2/21S/37E	3630 FSL-1770 FWL	O	6/3/52	7976	17-1/2	13-3/8	222	250	11	8-5/8	3120	1700						7-7/8	5-1/2	2908-7995	300	2908
NEDU # 104 (Taylor Glenn # 2)	30-025-06386	3/21S/37E	1582 FNL-330 FWL	WI	11/17/56	5930	17-1/2	13-3/8	307	300	11	8-5/8	3150	1200	7-7/8	5-1/2	5810	700	Surface					
NEDU # 105 (Taylor Glenn # 11)	30-025-25008	3/21S/37E	2080 FNL-660 FWL	WI	9/25/75	6870	11	8-5/8	1380	400					7-7/8	5-1/2	6870	860	1956 (C)					
NEDU # 106 (Hawk B-3 # 16)	30-025-06410	3/21S/37E	660 FNL-1980 FWL	O	11/13/56	6922	13-3/4	10-3/4	260	150	9-7/8	7-5/8	3049	1805	6-3/4	5-1/2	6479	500	2903 (T)	4-3/4	4	6237-6922	35	6237
NEDU # 107 (Taylor Glenn # 9)	30-025-20315	3/21S/37E	1585 FNL-1980 FWL	WI	1/30/63	6000	9-7/8	7-5/8	272	275					6-3/4	4-1/2	6000	375	3370 (T)					
NEDU # 108 (Taylor Glenn # 10)	30-025-24831	3/21S/37E	1980 FNL-1980 FWL	O	2/14/75	6805	11	8-5/8	1361	600					7-7/8	5-1/2	6805	1025	Surface					
NEDU # 109 (Hawk B-3 # 15)	30-025-06510	3/21S/37E	660 FNL-1980 FEL	WI	11/24/55	6025	15	11-3/4	270	375	9-7/8	7-5/8	3061	1066	6-3/4	5-1/2	6024	375	3190 (T)					
NEDU # 110 (Hawk B-3 # 18)	30-025-06495	3/21S/37E	1980 FNL-1980 FEL	WI	5/24/57	5976	13-3/4	10-3/4	268	250	9-7/8	7-5/8	3119	1150	6-3/4	5-1/2	5974	400	3000 (T)					
NEDU # 111 (Hawk B-3 # 24)	30-025-26670	3/21S/37E	2232 FNL-2310 FEL	WI	6/19/80	6875	11	8-5/8	1395	674					7-7/8	5-1/2	6875	2780	Surface					
NEDU # 113 (Hawk B-3 # 4)	30-025-06496	3/21S/37E	1980 FNL-660 FEL	WI	6/5/50	6830	17-1/2	13-3/8	211	250	12-1/4	9-5/8	3029	1210	8-3/4	7	6829	770	3038 (T)					
NEDU # 124	30-025-34424	3/21S/37E	2879 FNL-2650 FEL	O	12/8/98	6910	11	8-5/8	1309	410					7-7/8	5-1/2	6910	1425	Surface					
NEDU # 125	30-025-34425	3/21S/37E	2727 FNL-1511 FEL	O	12/19/98	6910	11	8-5/8	1300	410					7-7/8	5-1/2	6910	1375	Surface					
NEDU # 128	30-025-34651	3/21S/37E	2483 FNL-1277 FWL	O	9/6/99	6930	12-1/4	8-5/8	1336	460					7-7/8	5-1/2	6930	1500	Surface					
NEDU # 129	30-025-34938	3/21S/37E	1100 FNL-1270 FWL	O	9/1/00	6980	12-1/4	8-5/8	1321	460					7-7/8	5-1/2	6980	1275	Surface					

AREA OF REVIEW / WELL DATA

WELL NAME	API NO.	S / T / R	LOCATION	WELL TYPE	COMP DATE	TD	SURFACE CASING				INTERMEDIATE CASING				PRODUCTION CASING					LINER				
							HOLE	CSG	SET	CMT	HOLE	CSG	SET	CMT	HOLE	CSG	SET	CMT	TOC	HOLE	LINER	DEPTH	CMT	TOC
NEDU # 130	30-025-34617	3/21S/37E	1254 FNL-2625 FWL	O	8/1/99	6950	12-1/4	8-5/8	1365	460					7-7/8	5-1/2	0	1400	Surface					
NEDU # 131	30-025-34609	3/21S/37E	1253 FNL-1244 FEL	O	8/20/99	6990	12-1/4	8-5/8	1365	460					7-7/8	5-1/2	6990	1525	Surface					
NEDU # 205 (Livingston # 11)	30-025-06521	3/21S/37E	3300 FSL-660 FWL	[redacted]	1/1/62	6730	12-1/4	9-5/8	271	250					8-3/4	2-7/8*	6724	635	*Triple-Tubingless Completion					
NEDU # 206 (Taylor Glenn # 1)	30-025-06522	3/21S/37E	3226 FNL-1980 FWL	WI	3/1/48	8590	17-1/2	13-3/8	301	250	11	8-5/8	3879	3000	7-7/8	5-1/2	8060	675	2915 (T)					
NEDU # 208 (Taylor Glenn # 6)	30-025-06385	3/21S/37E	4620 FSL-1979 FEL	O	8/28/52	6707	17-1/2	13-3/8	225	250	11	8-5/8	3147	2000						7-7/8	5-1/2	2917-6660	600	2917
NEDU # 209 (Hawk B-3 # 2)	30-025-06508	3/21S/37E	3150 FSL-1650 FEL	WI	1/29/53	8114	17-1/2	13-3/8	250	250	12-1/4	9-5/8	3133	1300	8-3/4	7	8113	900	2950 (T)					
NEDU # 210 (Hawk B-3 # 5)	30-025-06502	3/21S/37E	2970 FSL-1650 FEL	WI	10/16/52	8302	17-1/2	13-3/8	269	260	12-1/4	9-5/8	3149	1300	8-3/4	7	8301	940	3125 (T)					
NEDU # 211 (Taylor Glenn # 2)	30-025-06381	3/21S/37E	4620 FSL-660 FEL	WI	2/10/50	6710	17-1/2	13-3/8	222	300	11	8-5/8	2920	2200	7-7/8	5-1/2	6665	600	3236 (C)					
NEDU # 212 (Hawk B-3 # 1)	30-025-06492	3/21S/37E	3300 FSL-660 FEL	O	11/10/49	6782	17-1/2	13-3/8	222	250	12-1/4	9-5/8	2819	650	8-3/4	7	6781	675	3272 (T)					
NEDU # 226	30-025-34380	3/21S/37E	2449 FSL-1266 FEL	O	7/18/98	6850	11	8-5/8	1370	410					7-7/8	5-1/2	6850	1200	Surface					
NEDU # 227	30-025-34428	3/21S/37E	2225 FSL-2507 FEL	O	12/6/98	6890	11	8-5/8	1310	410					7-7/8	5-1/2	6890	1315	Surface					
NEDU # 228	30-025-34427	3/21S/37E	3768 FNL-1493 FEL	O	12/4/98	6920	11	8-5/8	1311	410					7-7/8	5-1/2	6920	1200	180 (B)					
NEDU # 229	30-025-34429	3/21S/37E	3730 FNL-2594 FEL	O	12/12/98	6910	11	8-5/8	1309	410					7-7/8	5-1/2	6910	1325	Surface					
NEDU # 232	30-025-34430	3/21S/37E	3828 FSL-1397 FWL	O	11/8/98	6890	11	8-5/8	1302	410					7-7/8	5-1/2	6890	1225	Surface					
NEDU # 233	30-025-34431	3/21S/37E	2562 FSL-1330 FWL	O	1/30/99	6870	11	8-5/8	1285	410					7-7/8	5-1/2	6870	1300	Surface					
NEDU # 301 (JC Estlack # 1)	30-025-06388	3/21S/37E	1980 FSL-660 FWL	O	4/12/50	6690	17-1/2	13-3/8	286	300	11	8-5/8	2972	1800	7-7/8	5-1/2	6620	200	2620 (T)					
NEDU # 302 (Livingston # 5)	30-025-06516	3/21S/37E	660 FSL-330 FWL	O	2/27/52	6690	17-1/2	13-3/8	218	250	11	8-5/8	3153	2200						7-7/8	5-1/2	2943-6689	200	2943
NEDU # 303 (Livingston # 1)	30-025-06512	3/21S/37E	1980 FSL-1980 FWL	WI	11/14/49	6674	17-1/2	13-3/8	228	300	11	8-5/8	2900	1800	7-7/8	5-1/2	6674	600	3600 (T)					
NEDU # 307 (Livingston # 2)	30-025-06513	3/21S/37E	660 FSL-1980 FEL	WI	3/24/50	6674	17-1/2	13-3/8	224	300	11	8-5/8	3148	2200	7-7/8	5-1/2	6674	600	3245 (C)					
NEDU # 308 (Hawk B-3 # 11)	30-025-06494	3/21S/37E	1980 FSL-660 FEL	WI	12/17/49	6753	17-1/2	13-3/8	232	250	12-1/4	9-5/8	2895	1000	8-3/4	7	6752	625	2850 (T)					
NEDU # 309 (Hawk B-3 # 7)	30-025-06499	3/21S/37E	1830 FSL-660 FEL	WI	5/9/51	8021	13-3/4	10-3/4	268	250	9-7/8	7-5/8	3128	1000	6-3/4	5-1/2	8020	550	2550 (T)					
NEDU # 326	30-025-34365	3/21S/37E	1310 FSL-1233 FEL	O	11/5/98	6850	11	8-5/8	1370	410					7-7/8	5-1/2	6850	1254	Surface					
NEDU # 327	30-025-34366	3/21S/37E	1348 FSL-2330 FEL	O	8/20/98	6800	11	8-5/8	1320	410					7-7/8	5-1/2	6800	1230	Surface					
NEDU # 329	30-025-34432	3/21S/37E	249 FSL-1478 FEL	O	10/28/98	6850	11	8-5/8	1350	410					7-7/8	5-1/2	6850	1545	Surface					
NEDU # 331	30-025-34433	3/21S/37E	1400 FSL-1350 FWL	O	12/13/98	6865	11	8-5/8	1328	410					7-7/8	5-1/2	6865	1450	Surface					
NEDU # 332	30-025-34739	3/21S/37E	140 FSL-1174 FWL	O	4/1/00	6890	12-1/4	8-5/8	1305	460					7-7/8	5-1/2	6890	1425	Surface					
Hawk B-3 # 1	30-025-06498	3/21S/37E	510 FSL-660 FEL	[redacted]	2/25/51	7975	13-3/4	10-3/4	259	250	9-7/8	7-5/8	3149	1175	6-3/4	5-1/2	7974	400	2275 (T)					
Hawk B-3 # 3	30-025-06505	3/21S/37E	2970 FSL-510 FEL	[redacted]	1/22/52	8010	13-3/4	10-3/4	265	250	9-7/8	7-5/8	3149	1045	6-3/4	5-1/2	8009	573	3500 (T)					
Hawk B-3 # 4	30-025-06504	3/21S/37E	2130 FSL-660 FEL	O	11/18/51	7845	13-3/4	10-3/4	265	250	9-7/8	7-5/8	3115	942	6-3/4	5-1/2	7844	520	3550 (T)					
Hawk B-3 # 6	30-025-06503	3/21S/37E	810 FSL-660 FEL	[redacted]	10/11/51	7825	13-3/4	10-3/4	260	250	9-7/8	7-5/8	3149	1420	6-3/4	5-1/2	7805	625	3230 (T)					
Hawk B-3 # 8	30-025-06500	3/21S/37E	2970 FSL-660 FEL	[redacted]	6/15/51	8191	13-3/4	10-3/4	265	250	9-7/8	7-5/8	3149	1110	6-3/4	5-1/2	8187	650	3115 (T)					
Hawk B-3 # 9	30-025-06501	3/21S/37E	1650 FSL-1650 FEL	[redacted]	11/29/51	8070	13-3/4	10-3/4	266	250	9-7/8	7-5/8	3154	1335	6-3/4	5-1/2	8069	700	3098 (T)					
Hawk B-3 # 21	30-025-06511	3/21S/37E	3300 FNL-660 FWL	[redacted]	8/13/62	2665	DOES NOT PENETRATE INJECTION ZONE																	
Livingston # 3	30-025-06514	3/21S/37E	560 FSL-2030 FEL	O	5/9/51	8094	17-1/2	13-3/8	223	250	11	8-5/8	3147	2200	7-7/8	5-1/2	7968	500	5100 (C)					
Livingston # 4	30-025-06515	3/21S/37E	380 FSL-2310 FEL	[redacted]	3/14/52	8167	17-1/2	13-3/8	151	200	11	8-5/8	3147	2000						7-7/8	5-1/2	2961-8018	800	2961
Livingston # 6	30-025-06517	3/21S/37E	1980 FSL-2308 FWL	O	8/1/52	8230	17-1/2	13-3/8	222	250	11	8-5/8	3147	2200						6-3/4	5-1/2	2944-8228	825	2944
Livingston # 7	30-025-06518	3/21S/37E	915 FSL-2308 FWL	O	9/19/52	8130	17-1/2	13-3/8	222	250	11	8-5/8	3142	2000						6-3/4	5-1/2	2932-8129	800	3585 (T)
Livingston # 14	30-025-28671	3/21S/37E	3500 FSL-367 FWL	O	6/2/84	7745	17-1/2	13-3/8	481	475	11	8-5/8	2470	1425	7-7/8	5-1/2	7745	1295	364 (C)					
Livingston # 16	30-025-35225	3/21S/37E	3240 FSL-1839 FWL	O	1/26/01	4500	DOES NOT PENETRATE INJECTION ZONE																	
Livingston # 17	30-025-35226	3/21S/37E	990 FSL-990 FWL	O	2/1/01	4455	DOES NOT PENETRATE INJECTION ZONE																	
Taylor Glenn # 3	30-025-06382	3/21S/37E	3546 FNL-330 FEL	O	1/10/52	8224	17-1/2	13-3/8	219	250	11	8-5/8	3150	2000						6-3/4	5-1/2	2960-8102	870	2960
Taylor Glenn # 4	30-025-06383	3/21S/37E	3376 FNL-764 FEL	O	5/12/52	8119	17-1/2	13-3/8	200	250	11	8-5/8	3147	2200						6-3/4	5-1/2	2999-8115	775	2999
Taylor Glenn # 5	30-025-06384	3/21S/37E	3546 FNL-1650 FEL	O	10/25/52	8361	17-1/2	13-3/8	225	250	11	8-5/8	3147	2200						6-3/4	5-1/2	2939-8355	850	2943
Taylor Glenn # 13	30-025-35352	3/21S/37E	2310 FNL-990 FWL	O		4450	DOES NOT PENETRATE INJECTION ZONE																	
Taylor Glenn # 15	30-025-35354	3/21S/37E	3448 FNL-1576 FWL	O		4450	DOES NOT PENETRATE INJECTION ZONE																	
NEDU # 101 (Hawk B-3 # 23)	30-025-06390	4/21S/37E	660 FNL-560 FEL	O	6/8/57	5950	13-3/4	10-3/4	270	250	12-1/4	9-5/8	3149	1100	7-7/8	5-1/2	5950	400	3100 (T)					
NEDU # 134	30-025-34737	4/21S/37E	2620 FNL-116 FEL	O	2/13/00	6900	12-1/4	8-5/8	1315	460					7-7/8	5-1/2	6900	1170	330 (B)					

AREA OF REVIEW / WELL DATA

WELL NAME	API NO.	S / T / R	LOCATION	WELL TYPE	COMP DATE	TD	SURFACE CASING				INTERMEDIATE CASING				PRODUCTION CASING					LINER				
							HOLE	CSG	SET	CMT	HOLE	CSG	SET	CMT	HOLE	CSG	SET	CMT	TOC	HOLE	LINER	DEPTH	CMT	TOC
NEDU # 201 (Livingston # 12)	30-025-06399	4/21S/37E	4620 FSL-560 FEL	O	6/12/62	6750	12-1/4	9-5/8	308	250					8-3/4	2-7/8*	6745	635	*Triple-Tubingless Completion					2200 (T)
NEDU # 202 (Livingston # 13)	30-025-26990	4/21S/37E	3330 FNL-467 FEL	WI	11/18/81	8156	17-1/2	13-3/8	1190	935	12-1/4	9-5/8	3500	1200	8-3/4	7	8153	1720	Surface					
NEDU # 203 (Livingston # 10)	30-025-06398	4/21S/37E	3200 FSL-660 FEL	O	3/29/53	7436	17-1/2	13-3/8	283	250	11	8-5/8	3151	2300	7-7/8	5-1/2	7435	550	4255 (T)					
NEDU # 234	30-025-34738	4/21S/37E	3810 FSL-200 FEL	O	2/13/00	6900	12-1/4	8-5/8	1275	460					7-7/8	5-1/2	6900	1740	Surface					
Livingston # 15	30-025-35224	4/21S/37E	3196 FSL-426 FEL	O	2/6/01	4482	DOES NOT PENETRATE INJECTION ZONE																	
Livingston # 19	30-025-35341	4/21S/37E	3630 FNL-810 FEL	O	2/28/01	4450	DOES NOT PENETRATE INJECTION ZONE																	
Taylor Glenn # 12	30-025-35351	4/21S/37E	2310 FNL-810 FEL	O		4200	DOES NOT PENETRATE INJECTION ZONE																	
Exxon Fee # 1	30-025-33439	4/21S/37E	1911 FNL-1980 FEL	O	8/29/96	7100	11	8-5/8	1245	750					7-7/8	5-1/2	7100	1200	243 (C)					
Hawk B-4 # 1	30-025-06391	4/21S/37E	1980 FNL-1980 FWL	O	12/4/55	6000	13-3/4	10-3/4	231	250	9-7/8	7-5/8	3003	895	6-3/4	5-1/2	5998	418	1043 (C)					
EC Hill # 1	30-025-06394	4/21S/37E	3300 FNL-1730 FEL	O	8/27/54	6394	17-1/2	13-3/8	265	250	12-1/4	9-5/8	2935	200	7-7/8	5-1/2	6394	800	1823 (C)					
NEDU #328	30-025-34367	10/21S/37E	42 FNL-2334 FEL	O	7/20/98	6850	11	8-5/8	1365	410					7-7/8	5-1/2	6850	1330	Surface					
NEDU #401 (State 10 #3)	30-025-06459	10/21S/37E	990 FNL-840 FWL	O	6/1/54	7500	17-1/2	13-3/8	240	250	12-1/4	9-5/8	3150	1612	8-3/4	7	7499	835	3275 (T)					
NEDU #402 (State 10 #2)	30-025-06461	10/21S/37E	1980 FNL-990 FWL	O	6/1/54	8161	13-3/4	10-3/4	249	250	9-7/8	7-5/8	3128	1275	6-3/4	5-1/2	7669	494	3180 (T)					
NEDU #403 (Hawk B-10 #10)	30-025-06449	10/21S/37E	460 FNL-1980 FWL	WI	6/19/62	6790	17-1/2	13-3/8	337	300	11	8-5/8	3000	350	7-7/8	5-1/2	6485	505	3150 (T)	4-3/4	4	6413-6790	35	6413
NEDU #405 (Hawk B-10 #9)	30-025-06450	10/21S/37E	660 FNL-1980 FEL	O	8/7/50	6723	13-3/4	10-3/4	245	200	9-7/8	7-5/8	3049	750	6-3/4	5-1/2	6715	452	3155 (T)					
NEDU #406 (Hawk B-10 #1)	30-025-06451	10/21S/37E	990 FNL-1650 FEL	O	5/23/51	7950	13-3/4	10-3/4	253	250	9-7/8	7-5/8	3071	1000	6-3/4	5-1/2	7922	625	3180 (T)					
NEDU #407 (Hawk B-10 # 8)	30-025-06456	10/21S/37E	1980 FNL-2310 FEL	WI	7/4/52	7800	17-1/2	13-3/8	253	250	11	9-5/8	3099	1000	8-3/4	7-5/8	7795	1308	Surface					
NEDU #408 (Dauron #1)	30-025-06446	10/21S/37E	660 FNL-660 FEL	WI	11/26/50	7875	17-1/2	13-3/8	228	175	12-1/4	9-5/8	2987	1200	7-7/8	5-1/2	7725	650	4815 (T)					
NEDU #409 (Dauron #2)	30-025-06447	10/21S/37E	660 FNL-525 FEL	O	1/11/51	7463	17-1/2	13-3/8	196	200	11	8-5/8	2995	1500	7-7/8	5-1/2	7462	500	4540 (T)					
NEDU #412	30-025-34490	10/21S/37E	1124 FNL-2541 FEL	O	10/7/98	6847	11	8-5/8	1280	410					7-7/8	5-1/2	6847	1400	Surface					
NEDU #413	30-025-34434	10/21S/37E	2388 FSL-1306 FEL	O	9/16/98	6850	11	8-5/8	1325	410					7-7/8	5-1/2	6850	1350	Surface					
NEDU #414	30-025-34435	10/21S/37E	2499 FSL-2470 FEL	O	9/24/98	6850	11	8-5/8	1306	410					7-7/8	5-1/2	6850	1490	Surface					
NEDU #415	30-025-34661	10/21S/37E	1208 FNL-1745 FWL	O	10/15/99	6870	12-1/4	8-5/8	1365	460					7-7/8	5-1/2	6870	1500	Surface					
NEDU #416	30-025-34798	10/21S/37E	2304 FSL-1431 FWL	O		6880	12-1/4	8-5/8	1223	460					7-7/8	5-1/2	6880	1425	Surface					
NEDU #501 (NM State V #12)	30-025-06474	10/21S/37E	1980 FSL-330 FWL	O	6/6/62	5990	13-3/4	10-3/4	310	200	9-7/8	7-5/8	2975	200	6-3/4	2-7/8*	5990	1200	3000 (T)	*Slimhole Completion				
NEDU #503 (NM State V #11)	30-025-06473	10/21S/37E	2080 FSL-2080 FWL	WI	12/4/52	7785	17-1/2	13-3/8	333	275	12-1/4	9-5/8	3165	1400	7-7/8	5-1/2	7785	400	2500 (T)					
NEDU #505 (NM State V #6)	30-025-06468	10/21S/37E	1980 FSL-1980 FEL	O	10/24/51	7717	15	12-3/4	329	350	11	8-5/8	3100	1400	7-7/8	5-1/2	7711	500	2100 (T)					
NEDU #507 (NM State V #8)	30-025-06470	10/21S/37E	2100 FSL-760 FEL	WI	2/2/52	7573	13-3/4	10-3/4	305	350	9-7/8	7-5/8	3105	1100	6-3/4	5-1/2	7573	400	2950 (C)					
NEDU #508 (State S #9)	30-025-20548	10/21S/37E	660 FSL-660 FEL	O	3/9/64	6710	17-1/2	13-3/8	336	325	11	8-5/8	2999	960	7-7/8	5-1/2	6709	1065	Surface					
NEDU #514	30-025-30913	10/21S/37E	2010 FSL-660 FWL	O	5/15/91	6830	17-1/2	13-3/8	410	450	11	8-5/8	3014	1650	7-7/8	5-1/2	6827	1055	3010 (B)					
NEDU #515	30-025-34436	10/21S/37E	1131 FSL-1342 FEL	O	8/30/98	6800	11	8-5/8	1310	410					7-7/8	5-1/2	6800	1365	1260 (B)					
NEDU #516	30-025-34437	10/21S/37E	1330 FSL-315 FEL	O	8/20/98	6800	11	8-5/8	1315	410					7-7/8	5-1/2	6800	1315	Surface					
NEDU #521	30-025-34599	10/21S/37E	1366 FSL-2593 FEL	O	8/7/99	6890	12-1/4	8-5/8	1240	460					7-7/8	5-1/2	6890	1350	750 (B)					
NEDU #523	30-025-34799	10/21S/37E	1420 FSL-1300 FWL	O		6860	12-1/4	8-5/8	1203	460					7-7/8	5-1/2	6860	1375	Surface					
Dauron #3	30-025-06448	10/21S/37E	330 FNL-990 FEL	[redacted]	12/13/51	7780	17-1/4	13-3/8	215	200	11	8-5/8	3002	1800	7-7/8	5-1/2	7772	350	4860 (T)					
Hawk B-10 #1	30-025-06475	10/21S/37E	1715 FNL-409 FEL	[redacted]	6/5/53	6580	13-3/4	10-3/4	207	150	9-7/8	7-5/8	3004	700	6-3/4	5-1/2	6453	250	4060 (T)					
Hawk B-10 #3	30-025-06452	10/21S/37E	1980 FNL-1980 FEL	[redacted]	6/22/51	7981	13-3/4	10-3/4	268	250	9-7/8	7-5/8	3099	1250	6-3/4	5-1/2	7980	750	3140 (T)					
Hawk B-10 #5	30-025-06455	10/21S/37E	330 FNL-2340 FEL	O	3/16/52	7955	13-3/4	10-3/4	273	225	9-7/8	7-5/8	3099	1308	6-3/4	5-1/2	7954	625	3275 (T)					
Hawk B-10 #6	30-025-06458	10/21S/37E	990 FNL-2310 FWL	O	5/17/52	8090	13-3/4	10-3/4	256	250	9-7/8	7-5/8	3099	1250	6-3/4	5-1/2	8089	507	3350 (T)					
Hawk B-10 #7	30-025-06457	10/21S/37E	2310 FNL-2310 FWL	O	8/4/52	8075	17-1/2	13-3/8	251	260	12-1/4	9-5/8	3149	1500	8-3/4	7	8074	1050	3200 (T)					
NM 'FO' State Com #1	30-025-06462	10/21S/37E	990 FSL-1980 FEL	O	7/13/55	6312	17-1/2	13-3/8	353	300	11	8-5/8	3200	1500	7-7/8	5-1/2	6311	325	4454 (C)					
NM State V #2	30-025-06464	10/21S/37E	660 FSL-1980 FWL	[redacted]	2/15/49	6751	13-3/8	10-3/4	332	275	9-7/8	7-5/8	3194	1250	6-3/4	5-1/2	6656	565	2200 (C)					
NM State V #9	30-025-06471	10/21S/37E	1980 FSL-1980 FWL	O	3/22/52	8240	13-3/4	10-3/4	329	375	9-7/8	7-5/8	3079	1000	6-3/4	5-1/2	8240	450	2906 (C)					
State 10 #1	30-025-06460	10/21S/37E	990 FNL-990 FWL	O	2/24/53	8285	17-1/2	13-3/8	236	250	12-1/4	9-5/8	3128	1308	8-3/4	7	8279	1250	0 (C)					
NEDU # 509 (Gutman # 1)	30-025-06537	11/21S/37E	2310 FSL-345 FWL	O	4/22/52	7575	17-1/2	13-3/8	245	275	11	8-5/8	3001	2450	7-7/8	5-1/2	7490	870	Surface					
NEDU # 510 (Gutman # 2)	30-025-20218	11/21S/37E	1980 FSL-990 FWL	O	1/29/64	7200	17-1/2	13-3/8	366	300	12-1/4	9-5/8	3008	900	8-3/4	7	6000	930		6-3/4	4-1/2	6000-7200	930	3400 (T)
Lockhart B-11 #1	30-025-06524	11/21S/37E	510 FNL-660 FWL	O	12/5/50	7751	13-3/4	10-3/4	248	250	9-7/8	7-5/8	3049	865	6-3/4	5-1/2	7750	770	3030 (T)					

40-A 4-PA

AREA OF REVIEW / WELL DATA

WELL NAME	API NO.	S / T / R	LOCATION	WELL TYPE	COMP DATE	TD	SURFACE CASING HOLE	CSG	SET	CMT	INTERMEDIATE CASING HOLE	CSG	SET	CMT	PRODUCTION CASING HOLE	CSG	SET	CMT	TOC	LINER HOLE	LINER	DEPTH	CMT	TOC
Lockhart B-11 #2	30-025-06477	11/21S/37E	330 FNL-330 FWL	O	9/10/51	6818	13-3/4	10-3/4	266	250	9-7/8	7-5/8	3049	1230	6-3/4	5-1/2	6817	375	Surface					
Lockhart B-11 #3	30-025-06525	11/21S/37E	1980 FNL-330 FWL	O	10/4/51	7659	13-3/4	10-3/4	262	250	9-7/8	7-5/8	3099	100	6-3/4	5-1/2	7658	550	3380 (T)					
Lockhart B-11 #4	30-025-06476	11/21S/37E	330 FNL-1650 FWL	O	1/24/52	7811	13-3/4	10-3/4	272	250	9-7/8	7-5/8	3149	1200	6-3/4	5-1/2	7805	835	Surface					
Lockhart B-11 # 16	30-025-06531	11/21S/37E	1980 FNL-1980 FWL	O	3/4/62	7450	17-1/2	13-3/8	322	250	12-1/4	9-5/8	2912	950	8-3/4	7	7450	770	1200 (T)					
Lockhart B-11 E # 1	30-025-06535	11/21S/37E	2310 FNL-330 FWL	O	3/8/53	6570	17-1/2	13-3/8	174	250	11	8-5/8	3044	900	7-7/8	5-1/2	6453	250	4650 (T)					

Top of Cement Legend:
B = Cement Bond Log
C = Calculated
Surface = Circulated
T = Temperature Survey

5-A

For Wells:
ACTIVE - 171
PA - 14

Well: Dauron # 3

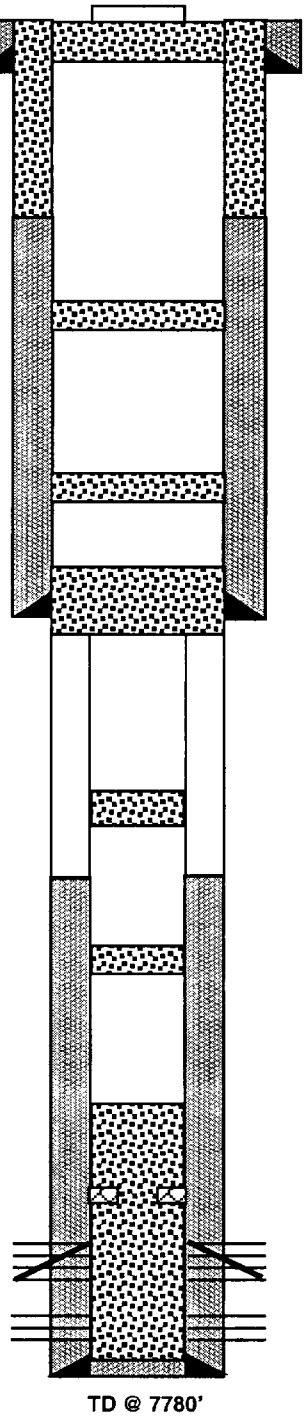
Field: Hare

Current Status: P&A (3/93)

Location: 330' FNL & 990' FEL
Unit A, Sec. 10, T21S, R37E
Lea County, New Mexico

API #: 30-025-06448

Elevation: 3414' (GR)



Install P&A Marker
Perf 4-way shot @ 280'
Cmt to Surface (200 sx)

17-1/4" Hole
13-3/8" 48# H-40 CSA 225'
Cement w / 200 sx
Circulated to Surface

Cmt Plug @ 1540' (35 sx)

Cmt Plug @ 2560' (35 sx)

Cut & Pull 5-1/2" Casing @ 3119'
Cmt Plug 2941'-3119' (50 sx)

11" Hole
8-5/8" 28# H-40 CSA 3002'
Cement w / 1800 sx
TOC @ 1335' (Temp Survey)

Cmt Plug @ 4350' (35 sx)

Cmt Plug @ 5360' (25 sx)

Cmt Plug thru packer
stuck @ 6717' (200 sx)

Abo Perfs:
6847-7377
Cmt sqz w/ 200 sx

Hare Perfs:
7460-7692

7-7/8" Hole
5-1/2" 15.5/17# J-55 CSA 7772'
Cement w / 350 sx
TOC @ 4860' (Temp Survey)

TD @ 7780'

Well: DeKalb State # 1

Field: Blinebry

Current Status: P&A (3/74)

Location: 660' FSL & 660' FEL
Unit P, Sec. 32, T20S, R38E
Lea County, New Mexico

API #: 30-025-07871

Elevation: 3491' (GR)

Install P&A Marker
Cmt Plug @ Surface (10 sx)

Cmt Plug @ 250' (70 sx)

Cmt Plug @ 853' (65 sx)
Shot off & Pulled 8-5/8" Casing @ 853'

Cmt Plug @ 2985' (35 sx)

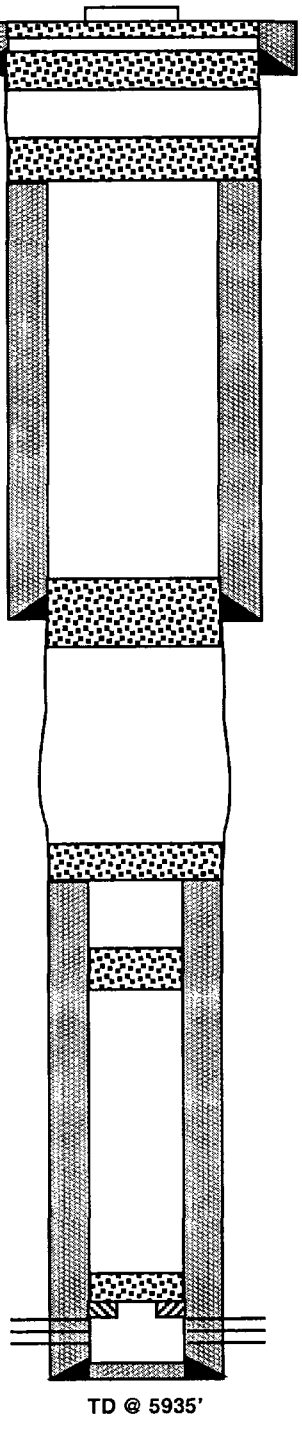
Cmt Plug @ 4700' (100')

Cmt Plug @ 4822' (35 sx)
Shot off & Pulled 5-1/2" Casing @ 4822'

Cmt Plug @ 5330' (100')

Cmt Plug on KV-Packer @ 5803' (25 sx)

Blinebry Perfs:
5810-5930



TD @ 5935'

17-1/2" Hole
13-3/8" 56# H-40 CSA 265'
Cement w / 250 sx
Circulated to Surface

10-3/4" Hole
8-5/8" 32# J-55 CSA 2900'
Cement w / 200 sx
TOC @ 853'

7-7/8" Hole
5-1/2" 20# J-55 CSA 5935'
Cement w / 200 sx
TOC @ 4822'

Well: Hawk B-3 # 1

Field: Hare (Simpson)

Current Status: P&A (5/90)

Location: 510' FSL & 660' FEL
Unit X, Sec. 3, T21S, R37E
Lea County, New Mexico

API #: 30-025-06498

Elevation: 3453' (GR)

Install P&A Marker
Perf 5-1/2" casing @ 310'
Cmt sqz inside & outside casing circulating to surface (65 sx)

Cmt 10-3/4" x 7-5/8" annulus to surface (65 sx)

Cmt Plug 1334'-1440' (11 sx)

Cmt Plug 3094'-3200' (11 sx)

Cmt Plug 5594'-5795' (23 sx)

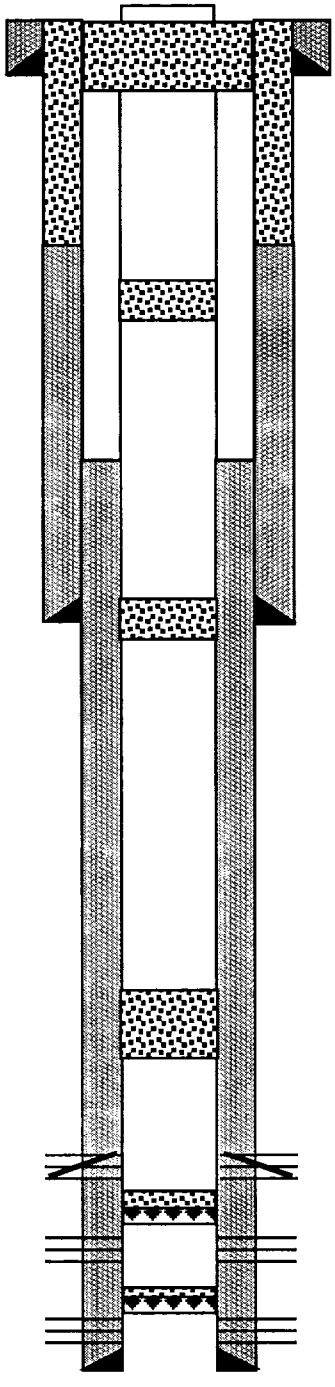
Abo Perfs:
6890-7275
Cmt sqz w/ 450 sx

CIBP @ 7455'
Cmt 7352'-7460' (12 sx)

Hare Perfs:
7517-7776

CIBP @ 7850'
Cmt 7815'-7850'

Ellenburger Perfs:
7868-7966



TD @ 7975'

13-3/4" Hole
10-3/4" 32.75# H-40 CSA 259'
Cement w / 250 sx
Circulated to Surface

9-7/8" Hole
7-5/8" 24# H-40 CSA 3149'
Cement w / 1392 sx
TOC @ 1225' (Temp Survey)

7-7/8" Hole
5-1/2" 14/15.5/17# J-55 CSA 7974'
Cement w / 550 sx
TOC @ 2275' (Temp Survey)

Well: Hawk B-3 # 3

Field: Hare

Current Status: P&A (5/90)

Location: 2970' FSL & 510' FEL
Unit P, Sec. 3, T21S, R37E
Lea County, New Mexico

API #: 30-025-06505

Elevation: 3470' (GR)

Install P&A Marker
Perf 5-1/2" casing @ 315'
Cmt sqz inside & outside casing circulating to surface (60 sx)

Cmt 10-3/4" x 7-5/8" annulus to surface (55 sx)

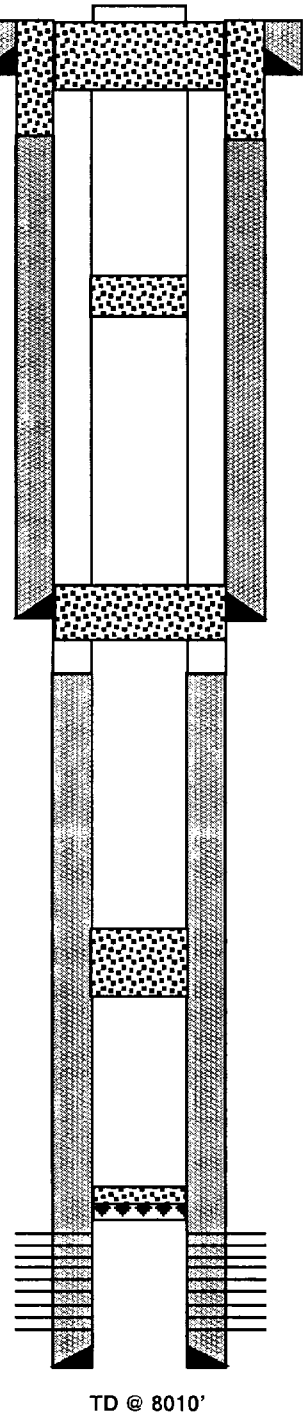
Cmt Plug 1391'-1500' (11 sx)

Perf 5-1/2" casing @ 3200'
Cmt sqz inside & outside casing (25 sx)

Cmt Plug 5630'-5831' (25 sx)

CIBP @ 7450'
Cmt 7346'-7450' (15 sx)

Hare Perfs:
7499-7967



13-3/4" Hole
10-3/4" 33# H-40 CSA 265'
Cement w / 250 sx
Circulated to Surface

9-7/8" Hole
7-5/8" 26# H-40 CSA 3149'
Cement w / 1045 sx
TOC @ 585' (Temp Survey)

7-7/8" Hole
5-1/2" 15.5/17# J-55 CSA 8009'
Cement w / 573 sx
TOC @ 3500' (Temp Survey)

TD @ 8010'

Well: Hawk B-3 # 6

Field: Hare

Current Status: P&A (11/89)

Location: 810' FSL & 660' FEL
Unit P, Sec. 3, T21S, R37E
Lea County, New Mexico

API #: 30-025-06503

Elevation: 3453' (GR)

Install P&A Marker
Surface Plug 0'-362' (35 sx)

Cmt 10-3/4" x 7-5/8" annulus to surface (70 sx)

Cmt Plug 3000'-3200' (50 sx)

CIBP @ 3900' (25 sx)

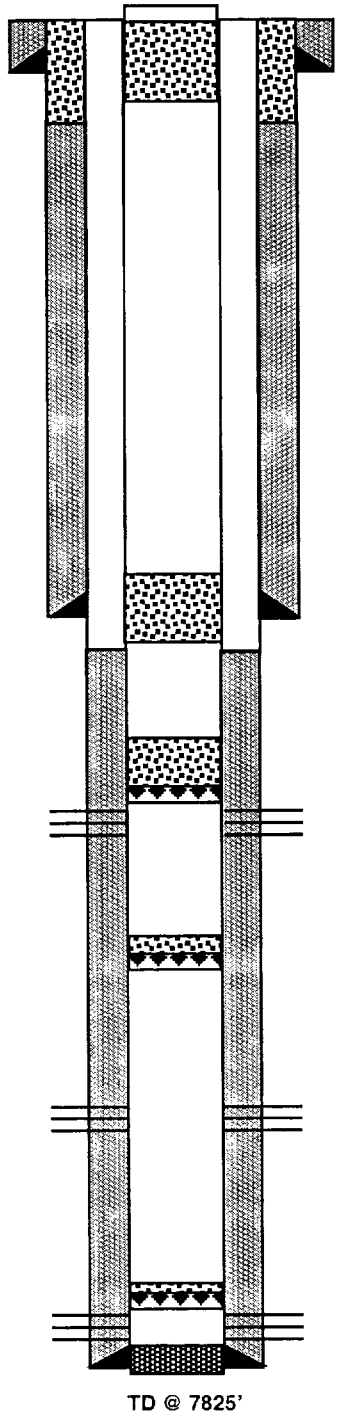
San Andres Perfs:
3958'-4069'

CIBP @ 4200' (10 sx)

Glorietta Perfs:
5280'-5344'

CIBP @ 7500' (1 sx)

Hare Perfs:
7528'-7780'



TD @ 7825'

13-3/8" Hole
10-3/4" 32# H-40 CSA 260'
Cement w / 250 sx
Circulated to Surface

9-7/8" Hole
7-5/8" 26# H-40 CSA 3149'
Cement w / 1420 sx
TOC @ 575' (Temp Survey)

6-3/4" Hole
5-1/2" 14/15.5/17# J-55 CSA 7805'
Cement w / 625 sx
TOC @ 3230' (Temp Survey)

Well: Hawk B-3 # 8

Field: Tubb

Current Status: P&A (5/90)

Location: 2970' FSL & 660' FEL
Unit P, Sec. 3, T-21S, R-37E
Lea County, New Mexico

API #: 30-025-06500

Elevation: 3469' (GR)

Install P&A Marker
Perf 5-1/2" casing @ 315'
Cmt sqz inside & outside casing circulating to surface (65 sx)

Cmt 10-3/4" x 7-5/8" Annulus to surface (60 sx)

Cmt Plug 1328'-1439' (11 sx)

Cmt Plug 3093'-3199' (11 sx)

Cmt Plug 5629'-5830' (23 sx)

CICR @ 6205'
Cmt 6100'-6205'

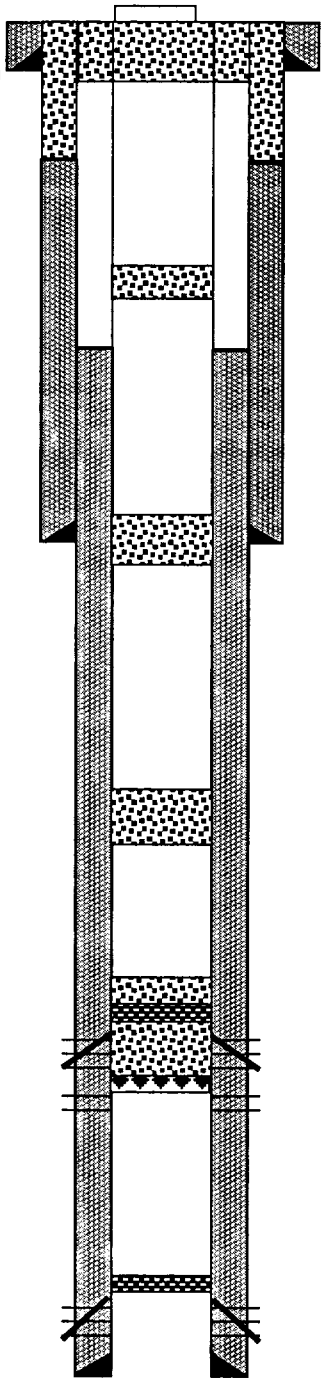
Tubb Perfs:
6265-6337
Cmt sqz w/ 50 sx

CIBP @ 6345'

Tubb Perfs:
6360-6420

CICR @ 8017'

Ellenburger Perfs:
8062-8172
Cmt sqz w/ 100 sx



TD @ 8191'

13-3/4" Hole
10-3/4" 32# H-40 CSA 265'
Cement w/ 250 sx
Circulated to Surface

8-3/4" Hole
7-5/8" 24# H-40 CSA 3149'
Cement w/ 1235 sx
TOC @ 975' (Temp Survey)

6-3/4" Hole
5-1/2" 14/15.5/17# J-55 CSA 8187'
Cement w/ 650 sx
TOC @ 3115' (Temp Survey)

Well: Hawk B-3 # 9

Field: Tubb

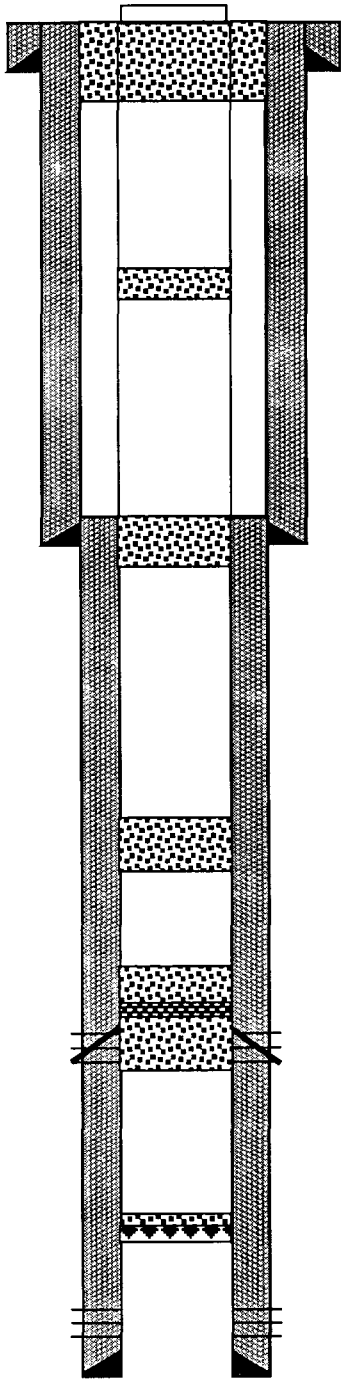
Current Status: P&A (5/90)

Location: 1650' FSL & 1650' FEL
Unit R, Sec 3, T-21S, R-37E
Lea County, New Mexico

API #: 30-025-06501

Elevation: 3423' (GR)

Install P&A Marker
Perf 5-1/2" casing @ 316'
Cmt sqz inside & outside casing
circulating to surface (65 sx)



13-3/4" Hole
10-3/4" 32# H-40 CSA 266'
Cement w/ 250 sx
Circulated to Surface

Cmt Plug 1384'-1490' (11 sx)

Cmt Plug 3098'-3204' (11 sx)

8-3/4" Hole
7-5/8" 26# J-55 CSA 3154'
Cement w/ 1335 sx
Circulated to Surface

Cmt Plug 5583'-5784' (23 sx)

CICR @ 6160'
Cmt 6055'-6160'

Tubb Perfs:
6220-6345
Cmt sqz w/ 60 sx

CIBP @ 7515'
Cmt - 3 sx

Ellenburger Perfs:
7948-8038

6-3/4" Hole
5-1/2" 14/15.5/17# J-55 CSA 8069'
Cement w/ 680 sx
TOC @ 3098' (Temp Survey)

TD @ 8070'

Well: Hawk B-10 No. 1

Field: Drinkard

Current Status: P&A (3/93)

Location: 1715' FNL & 409' FEL
Unit H, Sec. 10, T21S, R37E
Lea County, New Mexico

API #: 30-025-06475

Elevation: 3413' (GR)

Perf casing @ 180'
Cmt to Surface inside & outside casing (100 sx)

13-3/8" Hole
10-3/4" 32# H-40 CSA 180'
Cement w / 150 sx
Circulated to Surface

Perf 5-1/2" casing @ 3005'
Cmt plug inside & outside casing 2900'-3050' (40 sx)

8-3/4" Hole
7-5/8" 26# H-40 CSA 3005'
Cement w / 900 sx
TOC @ 1415' (Temp Survey)

CIBP @ 6400' (15 sx)

Drinkard Open Hole:
6453'-6625'

6-3/4" Hole
5-1/2" 15.5# J-55 CSA 6453'
Cement w / 250 sx
TOC @ 4060' (Temp Survey)

TD @ 6625'

Well: Hawk B-10 No. 3

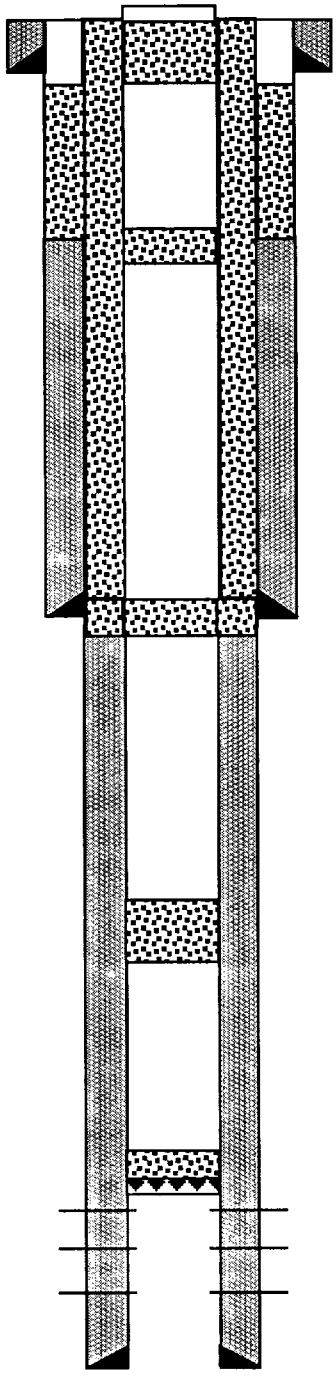
Field: Hare

Current Status: P&A (9/90)

Location: 1980' FNL & 1980' FEL
Unit G, Sec. 10, T21S, R37E
Lea County, New Mexico

API #: 30-025-06452

Elevation: 3450' (GR)



Perf 5-1/2" casing @ 320'
Cmt to Surface inside & outside casing (65 sx)

Cmt 10-3/4" x 7-5/8" annulus to 320' (60 sx)

Cmt Plug 1314'-1420' (11 sx)

Perf 5-1/2" casing @ 3135'
Cmt plug inside & outside casing 3044'-3150' (25 sx)

Cmt Plug 5544'-5750' (23 sx)

Cmt Plug 7312'-7420' (12 sx)
CIBP @ 7420'

Hare Simpson (McKee) Perfs:
7470-7736

12-1/4" Hole
10-3/4" 32.75# H-40 CSA 268'
Cement w / 250 sx
Circulated to Surface

9-7/8" Hole
7-5/8" 24# H-40 CSA 3099'
Cement w / 1150 sx
TOC @ 1350' (Temp Survey)

6-3/4" Hole
5-1/2" 14/15.5/17# J-55 CSA 7980'
Cement w / 750 sx
TOC @ 3140' (Temp Survey)

TD @ 7981'

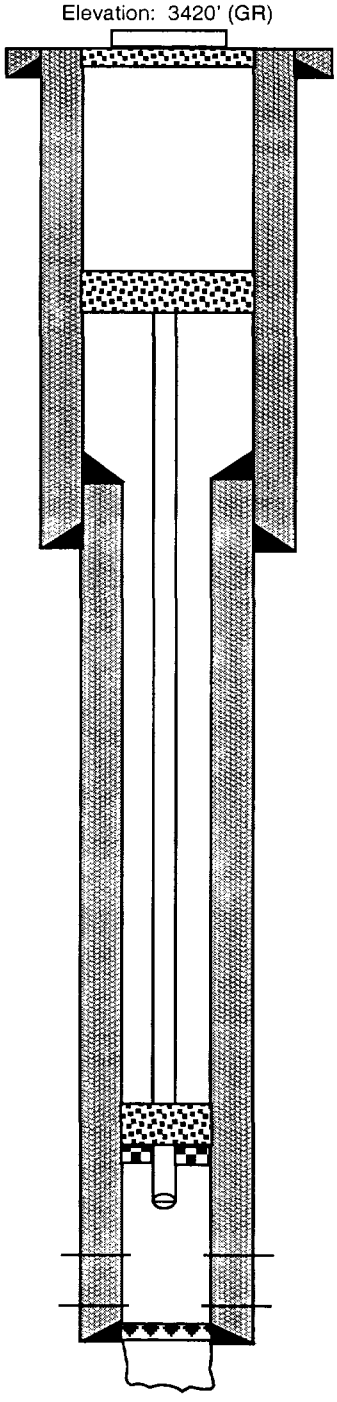
Well: Livingston # 4

Field: Hare

Current Status: P&A (8 / 59)

Location: 380' FSL & 2310' FEL
Sec. 3, T21S, R37E
Lea County, New Mexico

API #: 30-025-06515



0 - 30' - 15 sx
Install P&A marker

1670' - 1770' - 30 sx
Top of tubing @ 1720'
left in hole (unable to fish)

7255' - 7400' - 25 sx
Spotted thru split in tubing
left in hole (unable to fish)

McKee Perfs:
7641-7826

Ellenburger Perfs:
7933-59

CIBP @ 8000'

Ellenburger Open Hole:
8018-8167

17-1/2" Hole
13-3/8" 48# H-40 CSA 151'
Cement w / 200 sx
Circulated to Surface

11" Hole
8-5/8" 32# J-55 CSA 3147'
Cement w / 2000 sx
Circulated to Surface

Packer @ 7400'

7-7/8" Hole
5-1/2" 15.5/17# J-55 LSA 8018'
Cement w / 870 sx
TOL @ 2961'

TD @ 8167'

Well: Northeast Drinkard Unit # 205

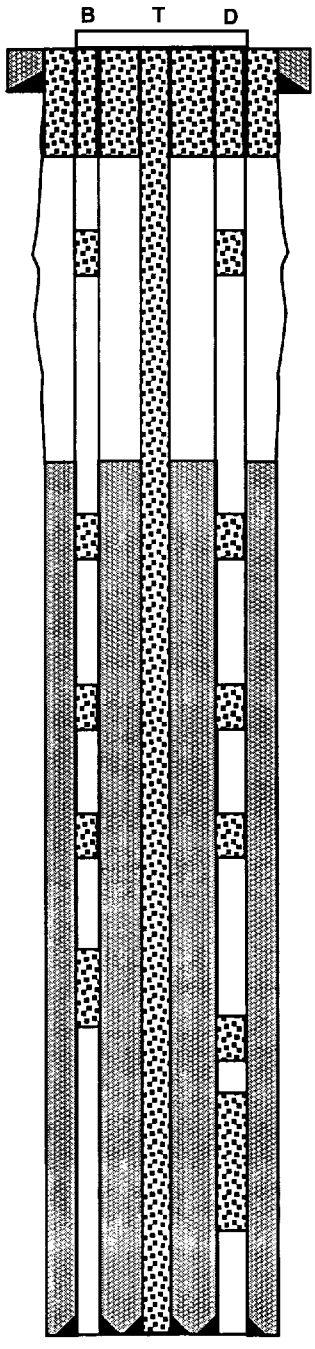
Field: Eunice N., Blinebry-Tubb-Drinkard

Location: 3300' FSL & 660' FWL
Unit M, Sec. 3, T21S, R37E
Lea County, New Mexico

API #: 30-025-06521

Current Status:
P&A **B** & **D** (3 / 83)
T(2 / 96)

Elevation: 3434' (GR)



12-1/4" Hole
9-5/8" 36# CSA 271'
Cement w / 250 sx
Circulated to Surface

B - Hole in Casing @ 650' & 700'
Pumped 185 sx thru holes and circulated to surface inside & outside casing

B - 950 - 1050 - 5 sx

T - 0 - 6730 - Fill 2-7/8" Casing String w / cement
Install P&A Marker

B - 2500 - 2600 - 5 sx

B - 3330 - 3430 - 5 sx

B - 3887 - 3987 - 5 sx

B- 5620 - 5450 - 25 sx

Blinebry Perfs:
5618-5839 (39 Holes) **P&A - 3/83**
5714-6029 (67 Holes)

Tubb Perfs:
6133-6363 (12 Holes)
6099-6145 (15 Holes)

Drinkard Perfs:
6519-6635 (12 Holes) **P&A - 3/83**
6508-6687 (63 Holes)

D - Hole in Casing @ 690'
Pumped 115 sx thru hole and circulated to surface inside & outside casing

D - 950 - 1050 - 5 sx

D - 2500 - 2600 - 5 sx

D - 3330 - 3430 - 5 sx

D - 3887 - 3987 - 5 sx

D - 5605 - 5705 - 5 sx

D - 5836 - 6520 - 25 sx

TD @ 6730'

8-3/4" Hole
2-7/8" 6.5# J-55 3-String CSA 6726'
Cement w / 635 sx
TOC @ 2400' (Temp Survey)

Well: State Sec 2 # 12

Field: Hare

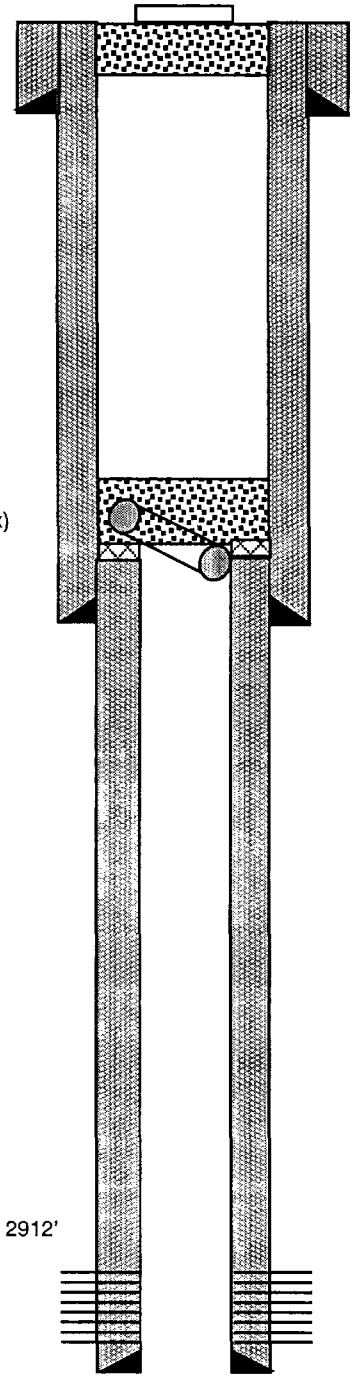
Current Status: P&A (1/62)

Location: 2250' FSL & 2140' FWL
Unit S, Sec. 2, T21S, R37E
Lea County, New Mexico

API #: 30-025-06378

Elevation: 3479' (GR)

Install P&A marker
Cmt Plug 0'-45' (40 sx)



17-1/2" Hole
13-3/8" 48# H-40 CSA 211'
Cement w / 250 sx
Circulated to Surface

Cmt Plug 2870'-2912' (15 sx)
Fish stuck @ 2912'

11" Hole
8-5/8" 26/32# H-40 CSA 3150'
Cement w / 2200 sx
Circulated to Surface

*Attempted to spot cement plug on casing perfs, but was unable to pump through fish @ 2912'

Hare Perfs:
7719-8016

7-7/8" Hole
5-1/2" 15.5/17# J-55 CSA 8072'
Cement w / 850 sx
TOC @ 2913' (TOL)

TD @ 8072'

Well: New Mexico State V # 2

Field: Drinkard

Current Status: P&A (3/54)

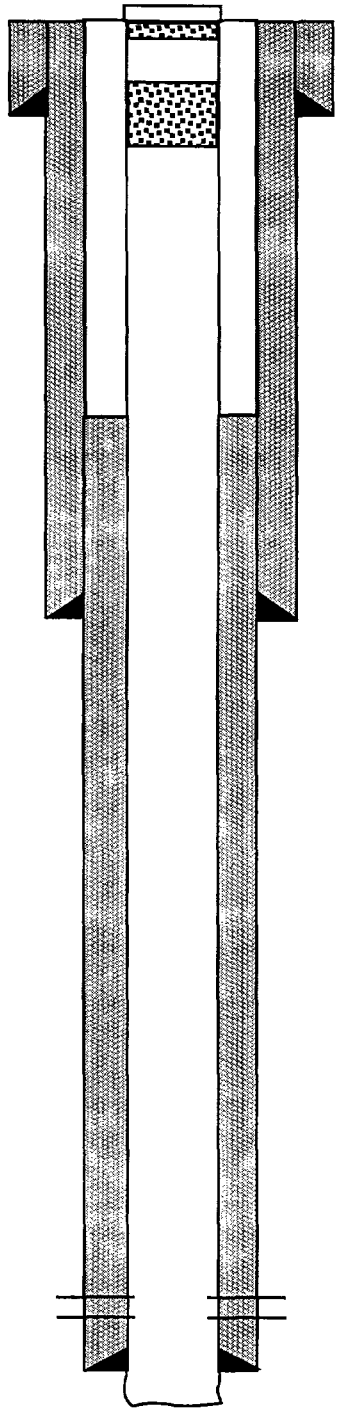
Location: 660' FSL & 1980' FWL
Unit N, Sec. 10, T21S, R37E
Lea County, New Mexico

API #: 30-025-06464

Elevation: 3464' (GR)

Install P&A marker
Cmt Plug 0'-45' (40 sx)

Cmt Plug 277'-477' (200 sx)



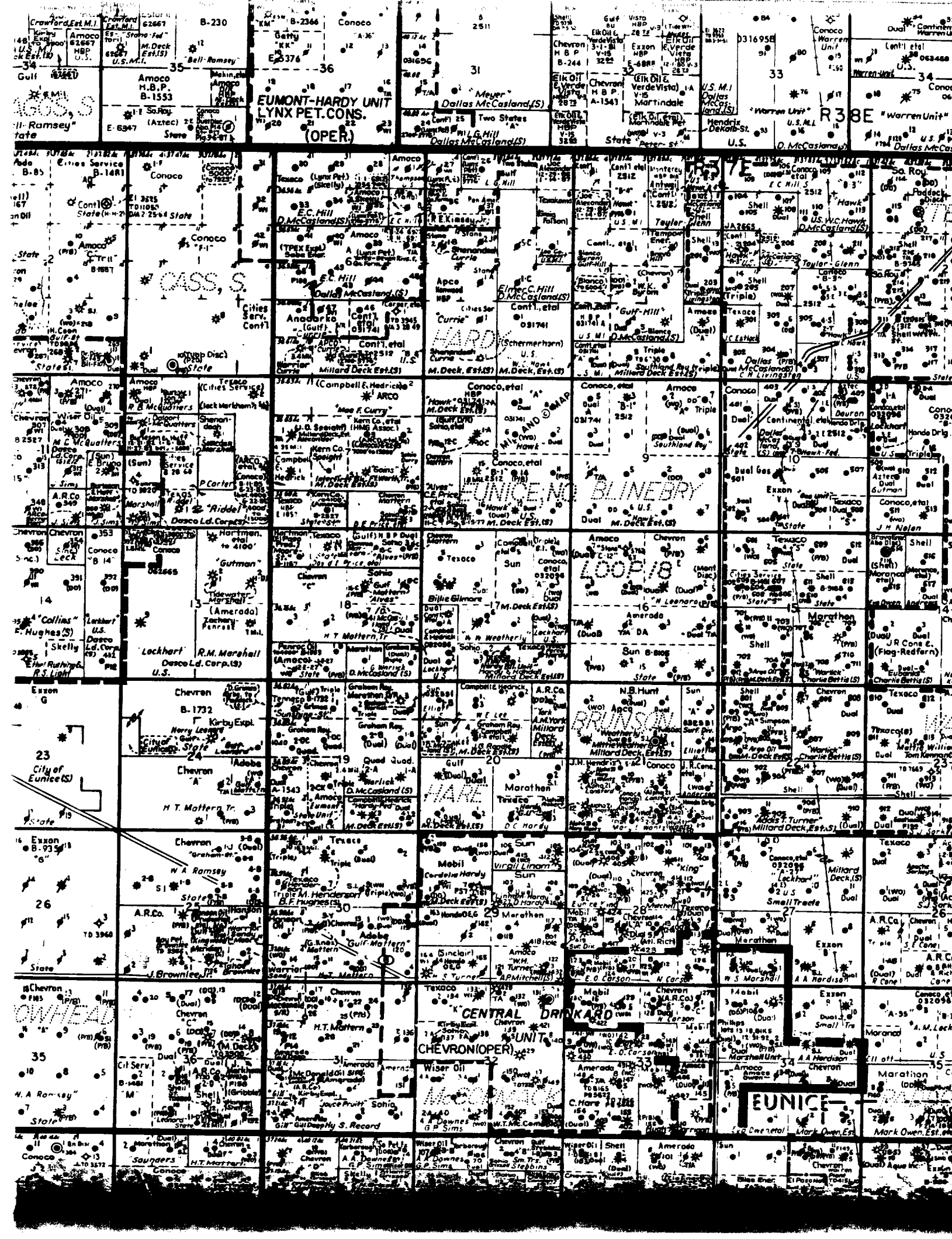
12-1/4" Hole
10-3/4" 32.75# H-40 CSA 331'
Cement w / 275 sx
Circulated to Surface

9-7/8" Hole
7-5/8" 26# H-40 CSA 3194'
Cement w / 1250 sx
TOC @ Surface (Calculated)

Drinkard Perfs:
6536-6643

6-3/4" Hole
5-1/2" 14# J-55 CSA 6655'
Cement w / 575 sx
TOC @ 2200 (Calculated)

TD @ 6751'


EUMONT-HARDY UNIT
LYNX PET. CONS.
(OPER.)
CASS
HARD
EUNICE
BLINEBRY
LOCKHART
DRINKARD
CENTRAL DRINKARD UNIT
CHEVRON (OPER)
EUNICE
BRUNSON
HARE
CRAWFORD
Amoco
Conoco
Texaco
Chevron
Shell
Sun
Marathon
Cities Service
Gulf
Mobil
Phillips
Exxon
Elk Oil
Kirby Expl.
Millard Deck Est.(S)
Dallas McCasland(S)
Meyer
Two States "A"
Warren Unit
Hendrix
DeKalb-St.
Martindale
Eunice
Jal
Monument
Hobbs
Lovington
Tatum
Lea Co.
Roosevelt Co.
Andrews Co.
Gaines Co.
Dawson Co.
Terry Co.
Yoakum Co.
Hockley Co.
Lubbock Co.
Crosby Co.
Lynn Co.
Garza Co.
Kent Co.
Stonewall Co.
Fisher Co.
Scurry Co.
Borden Co.
Howard Co.
Mitchell Co.
Nolan Co.
Coke Co.
Runnels Co.
Concho Co.
Tom Green Co.
Irion Co.
Reagan Co.
Upton Co.
Crane Co.
Ector Co.
Midland Co.
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Sterling Co.
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Concho Co.
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Reagan Co.
Upton Co.
Crane Co.
Ector Co.
Midland Co.
Glasscock Co.
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LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE

WFX-774

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

4/17/2001

Lori Wrotenbery
Director
Oil Conservation Division

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:
MC
DHC
NSL
NSP
SWD
WFX X
PMX

Gentlemen:

I have examined the application for the:

Apache Corp.
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

Hawk B-10 #1 H-10-21-37 may need to be replugged
Livingston #4 3-21-37 may not plugged properly
New Mexico ST V #2 N-10-21-37 not plugged properly
State Gas Com #12 G-2-21-37 not plugged properly

Yours very truly,

Chris Williams
Supervisor, District 1

Northeast Drinkard Unit

#102-H, 4-21s-37e	API #30-025-06400
#103-D, 3-21s-37e	30-025-09897
#106-C, 3-21s-37e	30-025-06410
#112-A, 3-21s-37e	30-025-06509
#122-A, 2-21s-37e	30-025-06364
#123-H, 2-21s-37e	30-025-06360
#204-L, 3-21s-37e	30-025-06506
#207-N, 3-21s-37e	30-025-06519
#223-P, 2-21s-37e	30-025-06355
#304-V, 3-21s-37e	30-025-06520
#305-R, 3-21s-37e	30-025-06493
#306-R, 3-21s-37e	30-025-06507
#310-X, 3-21s-37e	30-025-06497
#311-T, 2-21s-37e	30-025-06367
#404-F, 10-21s-37e	30-025-06454
#410-H, 10-21s-37e	30-025-06453