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May 6, 2005

HAND DELIVERED

Mr. Mark E. Fesmire, Director
Oil Conservation Division
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

Case 13503

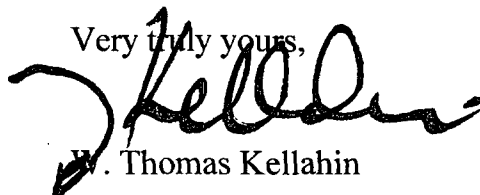
2005 MAY 6 PM 1 37

Re: East Blinebry-Drinkard Unit Waterflood Project
Application of Apache Corporation
for approval of a waterflood project and qualification
of the Project Area for the Recovered Oil Tax
Rate pursuant to the Enhanced Oil Recovery Act
Lea County, New Mexico

Dear Mr. Fesmire:

On behalf of Apache Corporation, find enclosed our referenced application which we request be set for hearing on the Examiner's docket now scheduled for June 2, 2005. Also enclosed is our proposed advertisement of this case for the NMOCD docket.

Very truly yours,


W. Thomas Kellahin

cc: Apache Corporation
Attn: Mario Moreno

ADVERTISEMENT FOR JUNE 2, 2005 DOCKET

CASE: ¹³⁵⁰³-----Application of Apache Corporation for approval of a waterflood project and qualification of the Project Area for the Recovered Oil Tax rate pursuant to the Enhanced Oil Recovery Act, Lea County, New Mexico. Applicant seeks approval of its East Blinebry-Drinkard Unit Waterflood Project including the injection of produced water into the following interval:

From an upper limit being 75 feet above the stratigraphic Blinebry marker to a lower limit at the top of the Abo formation as seen on the type log from the Continental Lockhart B-11 #17 well located 1980 feet FNL and 1980 feet FEL, Section 11, T21S, R37E and is that interval which is correlative to the interval from 5615 feet to 6795 feet below the surface measured from the derrick floor as shown on this type log. The Blinebry marker has been defined by the NMOCD at a depth of 5457 feet (elevation 3380, sub-sea datum 2077) in Exxon State S#30 well located in the SW/4NW/4 of Section 2, T22S, R37E, Lea County, New Mexico.

Through 17 injection wells located in the following described area:

Township 21 South, Range 37East, NMPM

Section 1:	Lots 11 thru 15, SW/4 and W/2SE/4
Section 11:	E/2 and NW/4
Section 12:	W/2NE/4, NW/4, W/2SE/4, SW/4
Section 13:	W/2, W/2NE/4 and NW/4SE/4
Section 14:	NE/4 and E/2SE/4

Applicant also requests that the Division, in accordance with Division Rule 701 and pursuant to the New Mexico "Enhanced Oil Recovery Act," approve this project for the recovered oil tax rate for enhanced oil recovery. Applicant requests that the Division establish procedures for the administrative approval of additional injection wells within the unit area without the necessity of further hearings and the adoption of any provisions necessary for such other matters as may be appropriate for the waterflood operations. This Unit is located approximately 4 miles Northeast of Eunice, New Mexico

**STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

**IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:**

2005 MAY 6 PM 1

**APPLICATION APACHE CORPORATION FOR
APPROVAL OF ITS EAST BLINEBRY-DRINKARD
UNIT WATERFLOOD PROJECT AND TO QUALIFY
THIS PROJECT FOR THE RECOVERED OIL TAX
RATE PURSUANT TO THE "NEW MEXICO ENHANCED
OIL RECOVERY ACT," LEA COUNTY, NEW MEXICO**

CASE NO. 13 ~~523~~

APPLICATION

APACHE CORPORATION, in accordance with Division Rule 701 and pursuant to the New Mexico "Enhanced Oil Recovery Act," applies to the New Mexico Oil Conservation Division for an order approving its East Blinebry-Drinkard Unit Waterflood Project and for the recovered oil tax rate for enhanced oil recovery and in support states:

(1) Apache Corporation is the operator of wells within the proposed Project Area that consists of 2080.00 total acre of federal and fee lands described as follows:

Township 21 South, Range 37East, NMPM

Section 1:	Lots 11 thru 15, SW/4 and W/2SE/4
Section 11:	E/2 and NW/4
Section 12:	W/2NE/4, NW/4, W/2SE/4, SW/4
Section 13:	W/2, W/2NE/4 and NW/4SE/4
Section 14:	NE/4 and E/2SE/4

See Locator Map attached as Exhibit "A"

(2) Apache Corporation proposes that this waterflood project will be limited to the following interval:

From an upper limit being 75 feet above the stratigraphic Blinebry marker to a lower limit at the top of the Abo formation as seen on the type log from the Continental Lockhart B-11 #17 well located 1980 feet FNL and 1980 feet FEL, Section 11, T21S, R37E and is that interval which is correlative to the interval from 5615 feet to 6795 feet below the surface measured from the derrick floor as shown on this type log. The Blinebry marker has been defined by the NMOCD at a depth of 5457 feet (elevation 3380, sub-sea datum 2077) in Exxon State S#30 well located in the SW/4NW/4 of Section 2, T22S, R37E, Lea County, New Mexico.

(3) The Project Area is within the boundaries of the Blinebry Oil & Gas Pool, the Drinkard Oil Pool and the Tubb Gas Pool.

(4) Apache Corporation proposes to institute a waterflood project by the injection of produced water from the San Andres formation into the Blinebry and Drinkard portions of the Blinebry Oil & Gas Pool and Drinkard Pool pursuant to a plan of operations that is more completely set forth in Division Form C-108, attached as Exhibit "B"

(5) Applicant requests that the Division establish procedures for the administrative approval of additional injection wells within the unit area without the necessity of further hearings and the adoption of any provisions necessary for such other matters as may be appropriate for the waterflood operations.

(6) The following data is provided in accordance with procedure requirements (Order R-9708) for a Certificate of Qualification for an Enhanced Oil Recovery Project to qualify this project for the recovered oil tax rates pursuant to the "Enhanced Oil Recovery Act," NMSA 1978, Sections 7-29A-1 through 7-29A-5, as amended.

a. Operators name and address: Apache Corporation
Two Warren Place, Suite 1500
6120 South Yale Avenue
Tulsa, OK 74136

b. Description of the project area:

1. Plat outlining the project area:
See Exhibit "A" attached

2. Description of the project area:

Township 21 South, Range 37East, NMPM

Section 1: Lots 11 thru 15, SW/4 and W/2SE/4
Section 11: E/2 and NW/4
Section 12: W/2NE/4, NW/4, W/2SE/4, SW/4
Section 13: W/2, W/2NE/4 and NW/4SE/4
Section 14: NE/4 and E/2SE/4

3. Total acres: The current project is flooding approximately 2080 acres.

4. Name of subject pool and formation:

The Blinebry and Drinkard formations of the
Blinebry Oil & Gas Pool and the Drinkard Oil Pool without
adversely affecting the Tubb Gas Pool.

c. Status of operations in the project area:

1. if unitized: Awaiting regulatory approvals
2. if an application for approval of a unit plan has been made, the date of filing to be filed on April 6, 2005
3. if not unitized----

d. Method of recovery to be used:

1. Fluids to be injected.
Apache Corporation will inject water and associated fluids
produced from the San Andres formation
2. Division Order approving the project: not yet
2. If the project has not been approved by the Division, provide the date
the application with form C-108 was filed:
May 6, 2005

e. Description of the project:

1. A list of producing wells.
See Exhibit "C" for a list of the 40 producing wells in the project
area.
2. A list of injection wells.
See Exhibit "D" for a list of the 17 injection wells in the project
area.

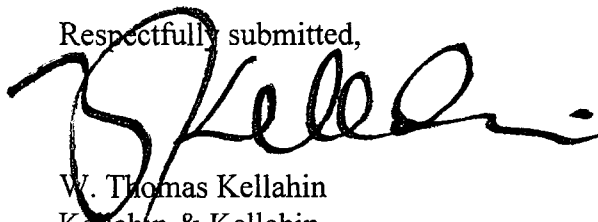
3. Capital cost of additional facilities: estimated \$ 796,650.
4. Estimated total project Costs: estimated \$2,427,162.
5. Estimated total value of incremental production to be recovered from the project. Estimated \$5,789,589.
6. Anticipated injection commencement date: October 1, 2005
7. Type of fluid injected and volume:
 - a. Produced (San Andres formation) water
 - b. Anticipate injection volumes: not to exceed 10,000 bwpd

f. Production data: Provide graphs, charts and other supporting data to show the production history and production forecast of oil, gas, casinghead gas and water from the project area.

See Exhibit "E" attached

Wherefore, Applicant requests that this application be set for hearing and that after said hearing, the Division enter its order approving this application.

Respectfully submitted,



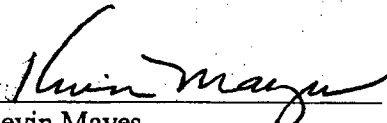
W. Thomas Kellahin
Kellahin & Kellahin
P. O. Box 2265
Santa Fe, NM 87504
Attorney for Applicant

VERIFICATION

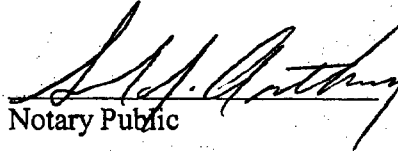
STATE OF OKLAHOMA)
)
COUNTY OF TULSA)

SS

Kevin Mayes, being duly sworn upon his oath, deposes and states: He is a petroleum engineer employed by Apache Corporation, that he is familiar with the matters set forth in this application and the statements therein are true and correct to the best of his knowledge.


Kevin Mayes

SUBSCRIBED AND SWORN to before me this 4 day of ^{MAY}~~April~~ 2005, by Kevin Mayes


Notary Public

My commission expires: 2-2-2008
my commission #: 00000222

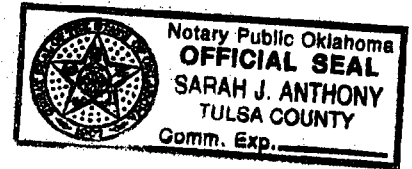
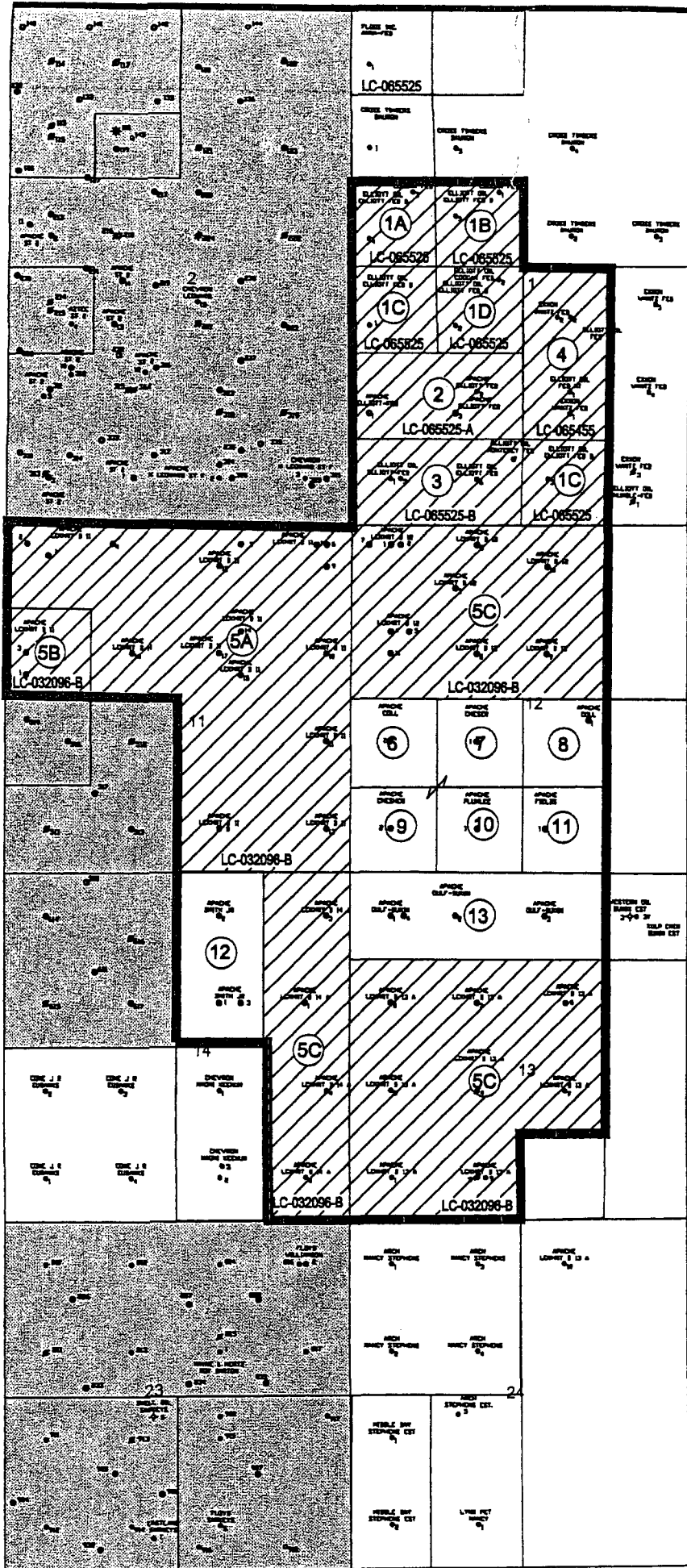


EXHIBIT "A"
EAST BLINEBRY DRINKARD UNIT
LEA COUNTY, NEW MEXICO
APACHE CORP., OPERATOR



LEGEND

⑪ UNIT TRACT NUMBER

	ACREAGE	PERCENTAGE
 FEDERAL LANDS	1640.00	78.85
 PATENTED (FEE) LANDS	<u>440.00</u>	<u>21.15</u>
TOTALS	2080.00	100%



APPLICATION FOR AUTHORIZATION TO INJECT

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

II. OPERATOR: Apache Corporation

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

CONTACT PARTY: Kevin Mayes PHONE: (918)491-4972

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

IV. Is this an expansion of an existing project? Yes X No
If yes, give the Division order number authorizing the project:

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

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

VII. Attach data on the proposed operation, including:

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

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Kevin Mayes TITLE: Sr. Staff Reservoir Engineer

SIGNATURE: *Kevin Mayes* DATE: 3/29/05

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

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 include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

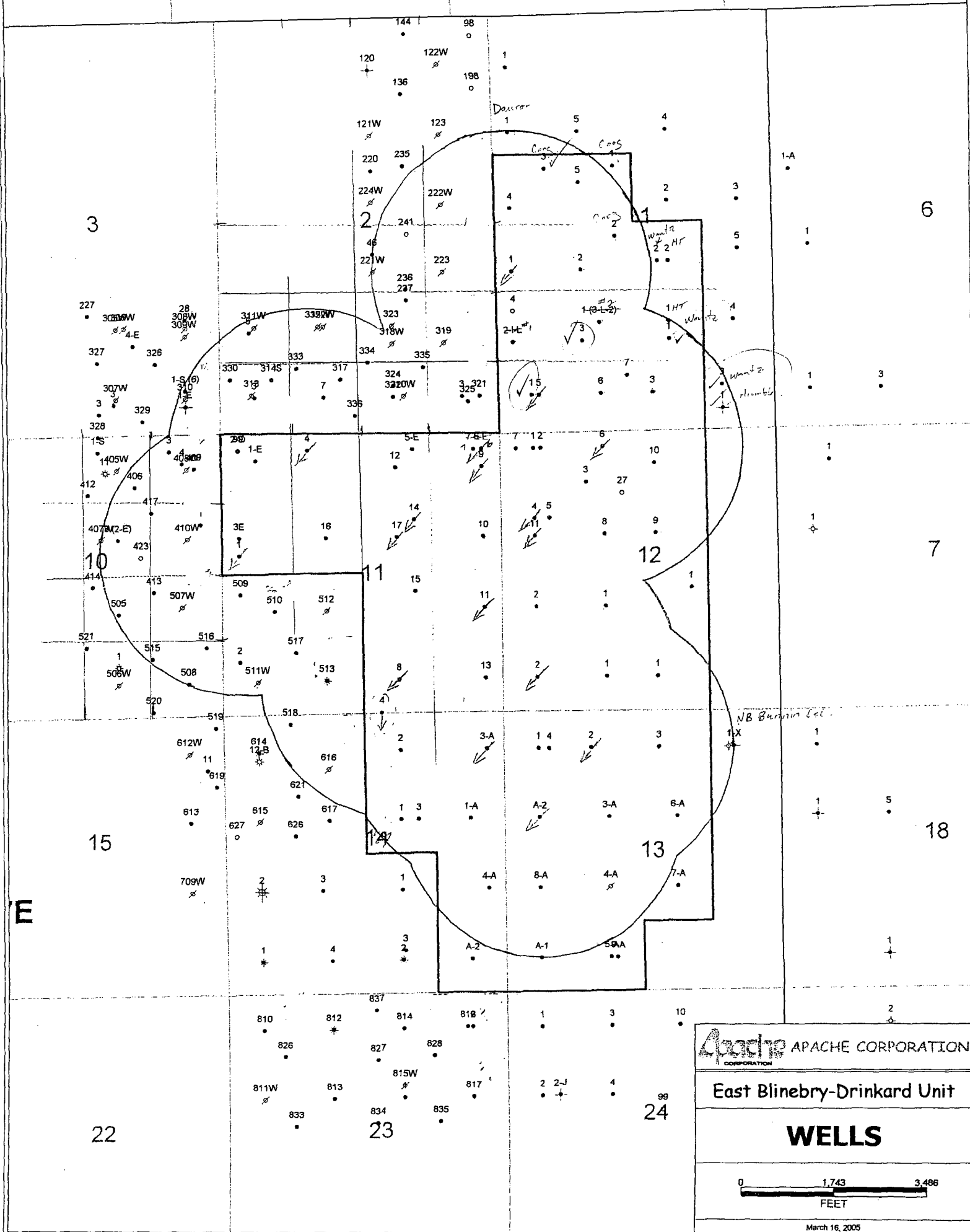
All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

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

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



Operators**Well**

XTO Energy, Inc. (Formerly Cross Timbers)
810 Houston St.
Fort Worth, TX 76102
Attn: Land Dept.

Dauron

McElvain Oil & Gas Properties, Inc
1050 17th Street
Suite 1800
Denver, CO 80265
Attn: James Hohenstein

Coogan

Exxon Mobil Corporation
P.O. Box 4697
Houston, TX 77210-4697
Attn: Dan Barber

Wantz

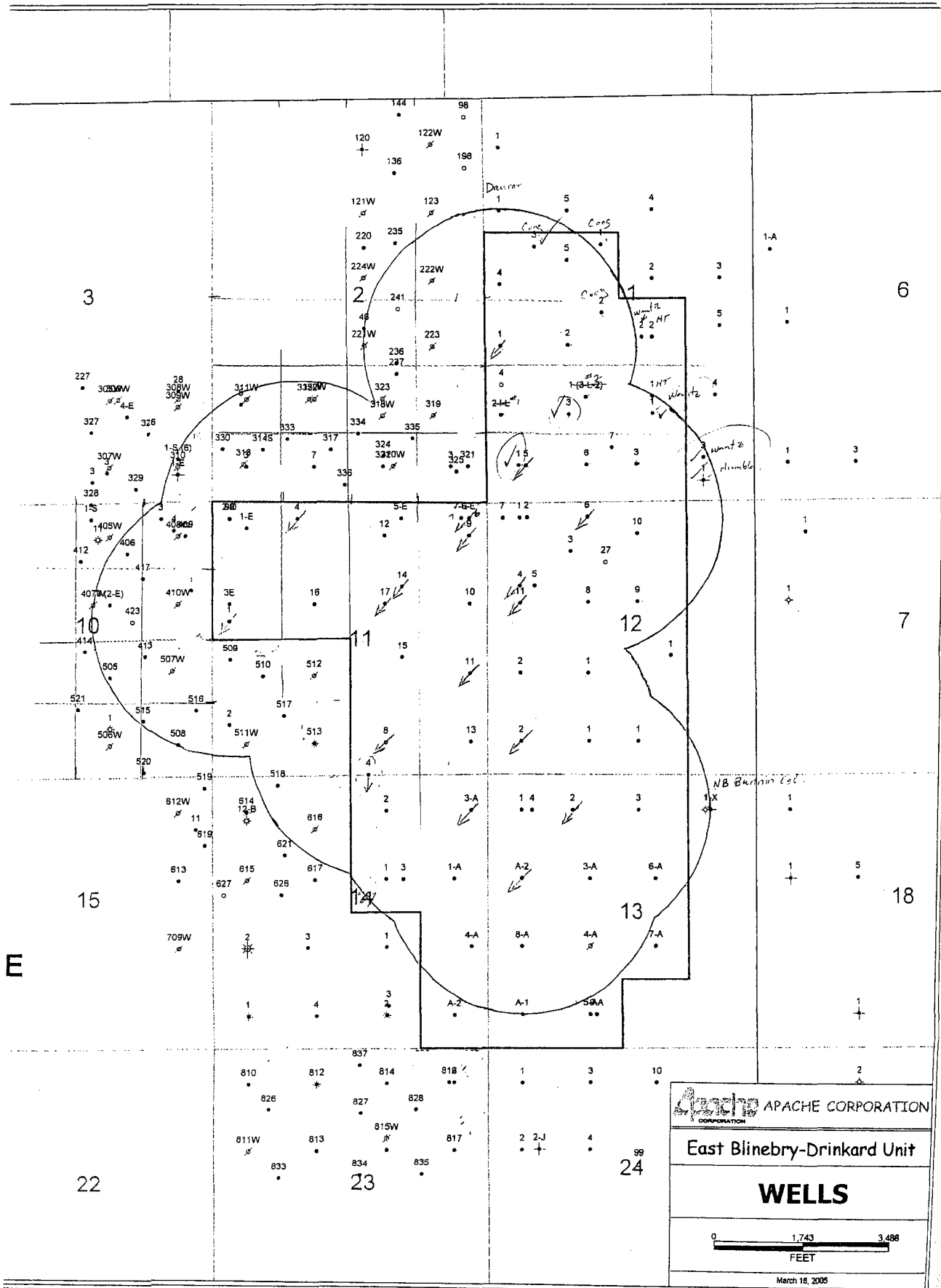
Chevron U.S.A. Inc
11111 South Wilcrest
Houston, TX 77099
Attn: James Baca

Naomi Keenum

Ralph C. Bruton
3500 Acoma
Hobbs, NM 88240

Bunin 3Y

OLD WELL NAMES						CONVERTED		
LEASE NAME	WELL #	LOCATION	FOOTAGE	TYPE	INJ VOLUMES	Tract	Surface Owners	
1 ELLIOTT B	1	1 21S 37E	2970 FSL, 330 FWL	OIL	429	1C	William F. McNeill, et al P.O. Box 339 Bridger, MT 59014	
2 ELLIOTT-MONTEREY	5	1 21S 37E	660 FSL, 810 FWL	OIL	641	3	State of New Mexico	
3 LOCKHART B 11	4	11 21S 37E	330 FNL, 1650 FWL	OIL	392	5A	William F. McNeill, et al P.O. Box 339 Bridger, MT 59014	
4 LOCKHART B 11	6	11 21S 37E	330 FNL, 330 FEL	OIL	250	5A	William F. McNeill, et al P.O. Box 339 Bridger, MT 59014	
5 LOCKHART B 11	8	11 21S 37E	660 FSL, 1980 FEL	OIL	870	5A	James Allan & Lucille Bryant 8204 Indigo Court NE Albuquerque, NM 87122	
6 LOCKHART B 11	9	11 21S 37E	660 FNL, 330 FEL	OIL	528	5A	William F. McNeill, et al P.O. Box 339 Bridger, MT 59014	
7 LOCKHART B 11	11	11 21S 37E	1980 FSL, 330 FEL	OIL	717	5A	James Allan & Lucille Bryant 8204 Indigo Court NE Albuquerque, NM 87122	
8 LOCKHART B 11	14	11 21S 37E	1650 FNL, 1650 FEL	OIL	661	5A	William F. McNeill, et al P.O. Box 339 Bridger, MT 59014	
9 LOCKHART B 11	17	11 21S 37E	1980 FNL, 1980 FEL	OIL	393	5A	William F. McNeill, et al P.O. Box 339 Bridger, MT 59014	
10 LOCKHART B 11 E	1	11 21S 37E	2310 FNL, 660 FWL	OIL	817	5B	William F. McNeill, et al P.O. Box 339 Bridger, MT 59014	
11 LOCKHART B 12	4	12 21S 37E	1650 FNL, 660 FWL	OIL	60	5C	William F. McNeill, et al P.O. Box 339 Bridger, MT 59014	
12 LOCKHART B 12	6	12 21S 37E	330 FNL, 1980 FWL	OIL	486	5C	William F. McNeill, et al P.O. Box 339 Bridger, MT 59014	
13 LOCKHART B 12	11	12 21S 37E	1980 FNL, 660 FWL	OIL-SI	250	5C	William F. McNeill, et al P.O. Box 339 Bridger, MT 59014	
14 LOCKHART B 13 A	2	13 21S 37E	1980 FNL, 660 FWL	OIL	346	5C	Eva Mae Tousiant, et al Box 115 Eunice, NM 88231	
15 LOCKHART B-14 A	3	14 21S 37E	660 FNL, 330 FEL	OIL	519	5C	James Allan & Lucille Bryant 8204 Indigo Court NE Albuquerque, NM 87122	
16 CHESHER	2	12 21S 37E	660 FSL, 660 FWL	OIL-TA	436	9	William F. McNeill, et al P.O. Box 339 Bridger, MT 59014	
17 GULF BUNIN	2	13 21S 37E	660 FNL, 1650 FWL	OIL	529	13	N.B. Bunin Properties P.O. Box 65 Lincoln City, OR 97367	
					8324			
Incremental Oil = 3.4 MMBO								



LOCATION	FOOTAGE	TYPE	API	SPUD DATE	TD	CONSTRUCTION	TOP OF CEMENT	COMPLETIONS & COMMENTS
1 21S 37E	3630 FNL, 330 FWL	OIL	30025063280000	11/54		5996 8 5/8 @ 3029' CMT WI 1300 SX, 5 1/2 @ 5890' CMT WI 500 SX, 4 @ 5663-7000 w/ 60sx	3582	12/54 5890-5996 O.H. 12/84 6664-6962 10/94 cbbp 6655, perf 6590-6465 cbbp 6400, perf 5910-5990 11/99 perf 6035-6068 & frac
1 21S 37E	4620 FSL, 1650 FWL	OIL	30025063300000	1/55		6004 8 5/8 @ 3050' CMT WI 1400 SX, 5 1/2 @ 5920' CMT WI 450 SX	3842	2/55 5920-6004 O.H.
1 21S 37E	2970 FSL, 330 FWL	OIL	30025063250000	7/54		5971 7 5/8 @ 3145' CMT WI 7 SX, 5 1/2 @ 5880' CMT WI 350 SX	4264	7/54 5880-5971 O.H.
1 21S 37E	660 FSL, 2310 FEL	OIL	30025063270000	10/54		5997 8 5/8 @ 3016' CMT WI 1300 SX, 5 1/2 @ 5900' CMT WI 450 SX	3823	11/54 5900-5997 O.H.
1 21S 37E	2970 FSL, 1650 FWL	OIL	30025063260000	9/54		6001 8 5/8 @ 3087' CMT WI 1150 SX, 5 1/2 @ 5885' CMT WI 350 SX	4269	10/54 5885-6001 O.H.
1 21S 37E	4195 FNL, 2310 FWL	OIL	30025304590000	11/88		7790 8 5/8 @ 1568' CMT WI 600SX, 5 1/2 @ 7788' CMT WI 1100SX	2710	12/88 7093-7344 5/93 BP @ 7027 6842-6952 10/60 BP @ 6807 5944-6014
1 21S 37E	1650 FSL, 330 FWL	OIL	30025063320000	12/51		8613 13 3/8 @ 240' CMT WI 225SX, 8 5/8 @ 3157' CMT WI 1750SX, 5 1/2 @ 7370' CMT WI 375SX	5639	3/52 5840-5970 2/02 7058-7330 w/ cbbp @ 700'
1 21S 37E	1980 FSL, 1980 FWL	OIL	30025063330000	3/52		6015 10 3/4 @ 242' CMT WI 125SX, 7 5/8 @ 3152' CMT WI 633SX, 5 1/2 @ 5954' CMT WI 100SX, 4 1/2 LINER	5492	4/52 5895-6015 O.H. & PERFS 5/85 6582-6812 1/98 P&A, CIBP 5675 cml 5675-5457 cut 512 @ 3189 cml 3250-2779 cml 120'-surf
1 21S 37E	660 FSL, 810 FWL	OIL	30025063340000	9/52		5987 10 3/4 @ 232' CMT WI 250SX, 7 @ 3152' CMT WI 1400SX, 5 1/2 @ 5810' CMT WI 350SX, 4" 5600-7500 WI 147SX	4194	10/52 5810-5987 O.H. 4/85 6964-7426 1/54 5851-6015 O.H.
1 21S 37E	660 FSL, 1980 FWL	OIL	30025063350000	12/53		6015 10 3/4 @ 232' CMT WI 250SX, 7 5/8 @ 3166' CMT WI 450SX, 5 1/2 @ 5851' CMT WI 350SX	4235	7064-7663 sz 6930-43 BP @ 6840 6742-6756 BP @ 6300 9/00 5895-6014
1 21S 37E	980 FSL, 2480 FWL	OIL	30025349370000	6/00		7750 8 5/8 @ 1600' CMT WI 519SX, 5 1/2 @ 7750' CMT WI 1400SX	1288	
1 21S 37E	330 FNL, 330 FWL	OIL	30025064770000	7/51		6818 10 3/4 @ 266' CMT WI 250SX, 7 5/8 @ 3049' CMT WI 1230SX, 5 1/2 @ 6817' CMT WI 375SX	5086	9/51 6528-6650 4/63 5763-5880 9/91 5920-6060 1/52 7674-7776 11/63 5943-6077, ABO plugged?
1 21S 37E	330 FNL, 1650 FWL	OIL	30025064780003	11/51		7811 10 3/4 @ 262' CMT WI 250SX, 7 5/8 @ 3099' CMT WI 100SX, 5 1/2 @ 7658' CMT WI 550SX	5119	2/61 cbbp 7500, 6960-7140
1 21S 37E	330 FNL, 1650 FEL	OIL	30025064820000	3/52		7831 10 3/4 @ 255' CMT WI 250SX, 7 5/8 @ 3149' CMT WI 1000SX, 5 1/2 @ 7830' CMT WI 560SX	5242	1/68 6536-6730 5/52 7712-7816 10/66 6561-6737, cbbp 6800 9/52 7636-7878
1 21S 37E	330 FNL, 330 FEL	OIL	30025065270000	7/52		8065 13 3/8 @ 246' CMT WI 260SX, 9 5/8 @ 3136' CMT WI 1615SX, 7 @ 8064' CMT WI 800SX	3808	1/67 6585-6766, cbbp 6850 12/52 7896-8026, cbbp 7800 5/64 6912-7379 5/64 5889-6115, phid 6500
1 21S 37E	330 FNL, 480 FEL	OIL	30025065260001	10/52		8042 13 3/8 @ 248' CMT WI 250SX, 9 5/8 @ 3152' CMT WI 1100SX, 7 @ 8041' CMT WI 900SX	3253	9/53 6560-6650 9/53 5604-5728 3/63 4/54 5759-5852 5/56 5709-5901 1/65 6601-6744 4/56 5696-5898 5/65 6523-6703 5/56 5720-5919 surf 7/56 5704-5883 4078 7/57 5724-5894
1 11 21S 37E	660 FSL, 1980 FEL	OIL	30025064780001	6/53		7577 13 3/8 @ 268' CMT WI 250SX, 9 5/8 @ 2996' CMT WI 2100SX, 7 @ 7576' CMT WI 961SX	2463	
1 11 21S 37E	660 FNL, 330 FEL	OIL	30025064790000	3/54		5680 10 3/4 @ 275' CMT WI 250SX, 7 3/4 @ 3149' CMT WI 940SX, 5 1/2 @ 5879' CMT WI 415SX	3963	
1 11 21S 37E	1980 FNL, 330 FEL	OIL	30025064800000	4/56		5925 10 3/4 @ 266' CMT WI 250SX, 7 5/8 @ 2955' CMT WI 1546SX, 5 1/2 @ 5920' CMT WI 425SX, 4" 5893-6744	3958	
1 11 21S 37E	1980 FNL, 330 FEL	OIL	30025064810000	3/56		5902 10 3/4 @ 265' CMT WI 300SX, 7 5/8 @ 2953' CMT WI 700SX, 5 1/2 @ 5902' CMT WI 300SX, 4" 5875-6780	4517	
1 11 21S 37E	660 FNL, 1980 FEL	OIL	30025065230000	4/56		5932 8 5/8 @ 1396' CMT WI 700SX, 5 1/2 @ 5931' CMT WI 2426SX	surf	
1 11 21S 37E	660 FSL, 330 FEL	OIL	30025065280000	6/56		5900 8 5/8 @ 1400' CMT WI 750SX, 5 1/2 @ 5899' CMT WI 3200SX	surf	
1 11 21S 37E	1650 FNL, 1650 FEL	OIL	30025065290000	5/57		5925 10 3/4 @ 275' CMT WI 250SX, 7 5/8 @ 3124' CMT WI 260SX, 5 1/2 @ 5924' CMT WI 400SX	4078	

11 21S 37E 12310 FSL, 1650 FWL	OIL	30025065300000	1/60	6760 13 3/8 @ 307' CMT W/ 260SX; 9 5/8 @ 2995' CMT W/ 1150SX; 7 @ 6750' CMT W/ 475SX	4223	360 6389-6665, 5752-5856
11 21S 37E 1980 FNL, 1980 FWL	OIL	30025065310000	12/61	7450 13 3/8 @ 322' CMT W/ 250SX; 9 5/8 @ 2912' CMT W/ 950SX; 7 @ 7450' CMT W/ 770SX	3354	362 6786-7400, 6574-6711 684 5750-6041 975 cibp 6710
11 21S 37E 1980 FNL, 1980 FEL	OIL	30025065360000	4/62	7500 13 3/8 @ 368' CMT W/ 300SX; 9 5/8 @ 3094' CMT W/ 450SX; 7 @ 7499' CMT W/ 650SX	4041	562 6790-7412, 6582-6708
11 21S 37E 2310 FNL, 660 FWL	OIL	30025065350000	3/53	6570 13 3/8 @ 174' CMT W/ 250SX; 8 5/8 @ 3044' CMT W/ 900SX; 5 1/2 @ 6453' CMT W/ 250SX	5299	353 6453-6570 O.H.
12 21S 37E 330 FNL, 660 FWL	OIL	30025065380002	4/52	8268 13 3/8 @ 275' CMT W/ 250SX; 9 5/8 @ 3149' CMT W/ 1350SX; 7 @ 8268' CMT W/ 900SX	3480	752 8133-8221 362 6590-6755 365 5904-6054 w/ cibp 6550
12 21S 37E 990 FNL, 1650 FWL	OIL	30025065480000	6/52	8565 13 3/8 @ 253' CMT W/ 225SX; 9 5/8 @ 3149' CMT W/ 1000SX; 7 @ 8563' CMT W/ 1000SX	3243	12/52 7958-8095 161 6985-7330 461 6735-6795
12 21S 37E 1650 FNL, 660 FWL	OIL	30025065390001	4/53	8202 10 3/4 @ 255' CMT W/ 250SX; 7 5/8 @ 3160' CMT W/ 1100SX; 5 1/2 @ 8201' CMT W/ 450SX	3891	680 6735-7330 commingled 753 8050-8150 964 6601-6747
12 21S 37E 330 FNL, 1980 FWL	OIL	30025065410000	1/54	6030 10 3/4 @ 242' CMT W/ 250SX; 7 5/8 @ 3149' CMT W/ 1570SX; 5 1/2 @ 6030' CMT W/ 485SX	3791	290 pb 5960, perf 5740-5952 364 5796-5840 183 5796-5996
12 21S 37E 330 FNL, 330 FWL	OIL	30025065420000	4/54	5900 10 3/4 @ 263' CMT W/ 250SX; 7 5/8 @ 3149' CMT W/ 1255SX; 5 1/2 @ 5897' CMT W/ 362SX	4226	554 5780-5881
12 21S 37E 1980 FNL, 1980 FWL	OIL	30025065430000	8/54	5923 10 3/4 @ 247' CMT W/ 250SX; 7 5/8 @ 3148' CMT W/ 914SX; 5 1/2 @ 5922' CMT W/ 520SX	3522	954 5783-5884
12 21S 37E 1980 FNL, 2310 FEL	OIL	30025065440000	12/55	6000 10 3/4 @ 250' CMT W/ 250SX; 7 5/8 @ 2798' CMT W/ 1045SX; 5 1/2 @ 5995' CMT W/ 583SX	3304	1/56 5807-5982
12 21S 37E 660 FNL, 2310 FEL	OIL	30025065450000	1/56	6050 10 3/4 @ 275' CMT W/ 300SX; 7 5/8 @ 5115' CMT W/ 1150SX; 5 1/2 @ 6048' CMT W/ 478SX	3842	1/56 5804-5984
12 21S 37E 1980 FNL, 660 FWL	OIL	30025065460000	2/56	5965 10 3/4 @ 260' CMT W/ 300SX; 7 5/8 @ 3152' CMT W/ 900SX; 5 1/2 @ 5964' CMT W/ 400SX	4118	3/56 5712-5908
13 21S 37E 660 FSL, 660 FWL	OIL	30025065500000	1/53	7575 13 3/8 @ 238' CMT W/ 250SX; 9 5/8 @ 3150' CMT W/ 1525SX; 7 @ 7576' CMT W/ 730SX	3692	5/53 7063-7125 8/56 rel 7020, 6050-6300, 5654-5840 10/62 sqz 5722-5840
13 21S 37E 1980 FNL, 660 FWL	OIL	30025065560000	8/53	6750 13 3/8 @ 262' CMT W/ 250SX; 9 5/8 @ 3149' CMT W/ 1675SX; 7 @ 6748' CMT W/ 651SX	3286	2/84 sqz 5654-5722 & 6050-6300 2/84 6888-7206
13 21S 37E 1980 FNL, 1980 FWL	OIL	30025065570000	1/55	6050 10 3/4 @ 253' CMT W/ 250SX; 7 5/8 @ 3149' CMT W/ 1155SX; 5 1/2 @ 6048' CMT W/ 646SX	3066	10/53 6622-6703 6/55 5680-5890, pb 6250
13 21S 37E 1980 FSL, 1980 FWL	OIL	30025065580000	3/55	6050 10 3/4 @ 256' CMT W/ 250SX; 7 5/8 @ 3149' CMT W/ 1045SX; 5 1/2 @ 6049' CMT W/ 520SX	3649	3/55 5720-6036 4/55 5718-5934
13 21S 37E 660 FSL, 1980 FWL	OIL	30025065590000	4/55	6050 10 3/4 @ 289' CMT W/ 250SX; 7 5/8 @ 3149' CMT W/ 1335SX; 5 1/2 @ 6049' CMT W/ 526SX	3621	10/68 5718-5934, 4510-5125 SWD 9/79 4510-5125 SWD 5/55 5718-5954
13 21S 37E 1980 FNL, 1980 FEL	OIL	30025065600000	5/55	6000 10 3/4 @ 249' CMT W/ 250SX; 7 5/8 @ 3149' CMT W/ 1045SX; 5 1/2 @ 5999' CMT W/ 520SX	3599	9/94 P&A 6/55 5800-5964 9/58 5724-5763
13 21S 37E 1980 FSL, 1980 FEL	OIL	30025065610000	6/55	6000 10 3/4 @ 258' CMT W/ 275SX; 7 5/8 @ 3149' CMT W/ 1360SX; 5 1/2 @ 5995' CMT W/ 520SX	3599	8/55 5808-5968
13 21S 37E 1980 FSL, 660 FWL	OIL	30025065620000	7/55	5985 10 3/4 @ 258' CMT W/ 200SX; 7 5/8 @ 3099' CMT W/ 1145SX; 5 1/2 @ 5984' CMT W/ 415SX	4068	9/55 5726-5842, 5646-5726
13 21S 37E 660 FSL, 2100 FWL	OIL	30025280110000	4/83	7800 8 5/8 @ 1446' CMT W/ 740SX; 5 1/2 @ 7800' CMT W/ 2150SX	surf	6/83 6952-7282
14 21S 37E 1980 FNL, 660 FEL	OIL	30025065730001	10/52	6648 13 3/8 @ 250' CMT W/ 250SX; 9 5/8 @ 3149' CMT W/ 1500SX; 7 @ 6583' CMT W/ 625SX	3258	12/83 6578-6873 1/85 6170-6454
14 21S 37E 660 FSL, 660 FEL	OIL	30025065740000	11/53	7447 10 3/4 @ 268' CMT W/ 250SX; 7 5/8 @ 3149' CMT W/ 1623SX; 5 1/2 @ 7446' CMT W/ 520SX	5046	12/52 6583-6648 O.H. 1/54 7000-7344 1/58 rel 6902, 5702-5817, 6163-6287
14 21S 37E 660 FNL, 330 FEL	OIL	30025065750000	5/56	5900 8 5/8 @ 1411' CMT W/ 725SX; 5 1/2 @ 5899' CMT W/ 2575SX	surf	8/86 cibp 5641
14 21S 37E 1980 FSL, 330 FEL	OIL	30025065760000	8/56	5880 10 3/4 @ 263' CMT W/ 250SX; 7 5/8 @ 2948' CMT W/ 1060SX; 5 1/2 @ 5874' CMT W/ 500SX	3566	7/56 5741-5877 9/58 5716-5831 1/98 3496-3557 BP@5670
12 21S 37E 1980 FSL, 660 FWL	OIL	30025065520000	10/55	5950 13 3/8 @ 313' CMT W/ 300SX; 8 5/8 @ 3249' CMT W/ 1500SX; 5 1/2 @ 5948' CMT W/ 100SX	5486	2/03 cibp 2915 Tad
12 21S 37E 1980 FSL, 1980 FWL	OIL	30025065490000	12/51	7695 13 3/8 @ 220' CMT W/ 250SX; 8 5/8 @ 3256' CMT W/ 2100SX; 5 1/2 @ 6919' CMT W/ 750SX	3457	11/55 5870-5900 6/70 5724-5918 2/82 5631-5918
						2/52 6919-7516 O.H. 11/54 5750-5864, 5900-5940 SQ 12/71 5320-5340 SQ

12 21S 37E	2310 FSL, 1650 FEL	OIL	30025065510000	4/55	9150 13 3/8 @ 298' CMT W/ 300SX; 8 5/8 @ 3239' CMT W/ 1500SX; 5 1/2 @ 6063' CMT W/ 220SX	5047	2089 6919-7516 O.H. 4002 P&A
12 21S 37E	660 FSL, 660 FWL	OIL	3002506555000000	3/56	5920 13 3/8 @ 314' CMT W/ 300SX; 8 5/8 @ 3248' CMT W/ 1500SX; 5 1/2 @ 5919' CMT W/ 100SX	5457	7655 5850-5910
12 21S 37E	660 FSL, 1980 FWL	OIL	30025065540000	3/52	7674 13 3/8 @ 210' CMT W/ 250SX; 8 5/8 @ 3182' CMT W/ 2200SX; 5 1/2 @ 6950' CMT W/ 50SX	5300	4156 5720-5815
							552 6950-7510
							2655 cbp 6750, sqz 200sx thru holes
							at 6150 (temp loc 5300), 5750-5870
							873 sqz 5750-5870 & c/o, cbp 6875
							part 6575-6837
							3/80 sqz csq leak 3500-4675
							11/86 sqz 6575-6837 & c/o to O.H.
12 21S 37E	660 FSL, 2310 FEL	OIL	30025065530000	3/56	5938 13 3/8 @ 314' CMT W/ 300SX; 8 5/8 @ 3249' CMT W/ 1250SX; 5 1/2 @ 5937' CMT W/ 100SX	2821	4156 5759-5882
							1071 sq (5360-5380) w/ 550 sx
14 21S 37E	660 FNL, 1980 FEL	OIL	30025065830002	12/53	6631 13 3/8 @ 221' CMT W/ 250SX; 8 5/8 @ 3000' CMT W/ 2040SX; 5 1/2 @ 6490' CMT W/ 350SX	4874	3/54 6490-6631
							3/57 cbp 5900, 5748-5794
							6/63 drill out cbp
14 21S 37E	1980 FNL, 1650 FEL	OIL	3002506584000	10/57	5850 13 3/8 @ 287' CMT W/ 300SX; 8 5/8 @ 2997' CMT W/ 1600SX; 5 1/2 @ 5850' CMT W/ 375SX	4119	11/57 5735-5832
							6/80 5614-5760
							5655-6639
14 21S 37E	330 FNL, 2310 FEL	OIL	30025368100000	10/05	6850 8 5/8 @ 1274' CMT W/ 575SX; 5 1/2 @ 6850' CMT W/ 1100SX	1030	
13 21S 37E	660 FNL, 1650 FWL	OIL	30025065660000	5/54	6010 12 3/8 @ 125' CMT W/ 430SX; 9 5/8 @ 3000' CMT W/ 1300SX; 7 @ 6010' CMT W/ 500SX	3350	10/54 5702-5888
13 21S 37E	660 FNL, 2310 FEL	OIL	30025065670000	2/55	6300 12 3/4 @ 130' CMT W/ 125SX; 9 5/8 @ 3043' CMT W/ 2000SX; 7 @ 6300' CMT W/ 700SX	2576	9/55 5780-5970
13 21S 37E	660 FNL, 860 FWL	OIL	30025065680000	2/56	6504 13 3/8 @ 140' CMT W/ 150SX; 8 5/8 @ 3240' CMT W/ 2500SX; 5 1/2 @ 6499' CMT W/ 800SX	2806	3/56 5716-5830
1 121S 37E	1650 FSL, 1650 FWL	OIL	30025290610000	12/84	7500 8 5/8 @ 1498' CMT W/ 730SX; 5 1/2 @ 7500' CMT W/ 1460SX		2/85 7041-7462
1 121S 37E	1650 FSL, 1980 FEL	OIL	30025293720000	9/85	8002 8 5/8 @ 1562' CMT W/ 750SX; 5 1/2 @ 8001' CMT W/ 2500SX		10/85 7202-7724
1 121S 37E	2214 FNL, 330 FWL	OIL	30025063390000	1/55	5960 10 3/4 @ 224' CMT W/ 200SX; 7 5/8 @ 3045' CMT W/ 1100SX; 5 1/2 @ 5935' CMT W/ 200SX, 4" 7-7510 w/ 150 sx		O.H. 5935-5960
1 121S 37E	2875 FNL, 990 FWL	OIL	30025306400000	7/89	7780 8 5/8 @ 1560' CMT W/ 600SX; 5 1/2 @ 7780' CMT W/ 1275SX		2/84 5745-6924
1 121S 37E	330 FSL, 990 FEL	OIL	30025063310000	5/56	6039 8 5/8 @ 3030' CMT W/ 1400SX; 5 1/2 @ 5958' CMT W/ 500SX		R/89 7055-7306
3 121S 37E	775 FSL, 990 FEL	OIL	30025296880000	6/86	7820 8 5/8 @ 1553' CMT W/ 700SX; 5 1/2 @ 7804' CMT W/ 2300SX		O.H. 5958-6039
1 121S 37E	660 FSL, 660 FWL	OIL	30025063290000	9/51	8370 13 3/8 @ 238' CMT W/ 250SX; 8 5/8 @ 3150' CMT W/ 1380SX; 5 1/2 @ 8333' CMT W/ 738SX		11/74 P&A
							7/86 7126-7760
							11/51 8005-8268
							6/62 PB 7263, 7088-7213
2 21S 37E	1004 FSL, 200 FWL, C	OIL	30025344140000	11/98	6911 8 5/8 @ 1350' CMT W/ 410SX; 5 1/2 @ 6910' CMT W/ 1375SX	563	6660-6797, 5736-5901
2 21S 37E	1200 FSL, 1400 FWL, C	OIL	30025354060000	10/01	6270 8 5/8 @ 1403' CMT W/ 460SX; 5 1/2 @ 6270' CMT W/ 1350SX	38	5781-5970
2 21S 37E	1209 FSL, 1463 FWL, C	OIL	30025354040000	8/01	6950 8 5/8 @ 1358' CMT W/ 460SX; 5 1/2 @ 6950' CMT W/ 1335SX	788	5734-6679
4 21S 37E	1300 FSL, 2450 FEL, C	OIL	30025354050000	9/01	6950 8 5/8 @ 1378' CMT W/ 460SX; 5 1/2 @ 6950' CMT W/ 1100SX	1872	5749-6693
2 21S 37E	1650 FSL, 1980 FEL, C	OIL	30025063650000	12/54	5925 13 3/8 @ 312' CMT W/ 375SX; 9 5/8 @ 3340' CMT W/ 1656SX; 5 1/2 @ 5764' CMT W/ 675SX	2648	O.H. 5764-5925
2 21S 37E	1650 FSL, 990 FEL, C	OIL-WO	30025063530002	10/88	8470 13 3/8 @ 109' CMT W/ 150SX; 8 5/8 @ 3099' CMT W/ 1375SX; 5 1/2 @ 6019' CMT W/ 600SX, 4" 5571-7587 w/ 825 sx	2400	8195-8215, 7925-75, 5810-5975
							3/85 780-7371
5 21S 37E	1880 FSL, 560 FWL, C	TA	30025063710001	6/62	7956 13 3/8 @ 224' CMT W/ 250SX; 8 5/8 @ 3142' CMT W/ 2000SX; 5 1/2 @ 7810' CMT W/ 500SX	5502	10/88 bp @ 7030, 5786-6888
3 21S 37E	1980 FSL, 1980 FEL, C	OIL-WO	30025063610003	8/93	8350 16 @ 253' CMT W/ 300SX; 10 3/4 @ 2904' CMT W/ 1600SX; 7 @ 8350' CMT W/ 800SX	3665	7810-7956 O.H.
							6/82 plug 7800 7534-7759
							7905-8250
							6/63 6625-6761
							12/74 plug 6590, 6332-6540
7 21S 37E	2450 FSL, 1700 FEL, C	OIL	30025348840000	5/00	6300 8 5/8 @ 1336' CMT W/ 460SX; 5 1/2 @ 6300' CMT W/ 1110SX	1176	6/93 5740-6786
5 21S 37E	2650 FSL, 1700 FEL, C	OIL	30025347970000	3/00	6304 8 5/8 @ 1290' CMT W/ 460SX; 5 1/2 @ 6304' CMT W/ 1150SX	996	5756-6094
3 21S 37E	2970 FSL, 990 FEL, C	OIL-WO	30025063550002	10/88	7542 13 3/8 @ 336' CMT W/ 450SX; 9 5/8 @ 3044' CMT W/ 1400SX; 7 @ 5834' CMT W/ 600SX, 4 1/2" 5131-7542 w/ 325sx	2642	5774-6116
							5834-5950 O.H.
							10/85 7134-7411
1 21S 37E	2982 FSL, 2317 FEL, C	OIL	30025063500000	3/53	8285 13 3/8 @ 271' CMT W/ 300SX; 8 5/8 @ 2498' CMT W/ 1700SX; 5 1/2 @ 8258' CMT W/ 675SX	5142	10/88 bp @ 7075, 5787-6938
							8150-8238
							1256 5797-5902
							6/81 sq 5797-5902, 6540-6850

1	2 21S 37E	3312 FSL 2317 FEL C	TA	30025063590000	10/54	8150 13 3/8 @ 325' CMT W/ 375SX; 8 5/8 @ 3003' CMT W/ 1350SX; 5 1/2 @ 8149' CMT W/ 950SX	3764	7778-8104
2	2 21S 37E	3534 FNL 990 FEL CO	OIL	30025063560000	8/54	5975 13 3/8 @ 332' CMT W/ 450SX; 8 5/8 @ 3039' CMT W/ 1900SX; 5 1/2 @ 5859' CMT W/ 605SX	3066	5859-5975 O.H.
3	2 21S 37E	555 FSL 555 FEL CON	OIL	30025063490000	6/52	8013 12 3/4 @ 287' CMT W/ 300SX; 8 5/8 @ 3049' CMT W/ 1100SX; 5 1/2 @ 8008' CMT W/ 925SX	3738	7615-7855
4	2 21S 37E	660 FSL 1780 FEL CO	OIL	30025063660000	2/55	5925 13 3/8 @ 334' CMT W/ 575SX; 8 5/8 @ 3049' CMT W/ 200SX; 5 1/2 @ 5769' CMT W/ 825SX	1961	5769-5925 O.H.
5	2 21S 37E	660 FSL 1980 FEL CO	P&A	30025063620000	2/52	7926 13 3/8 @ 264' CMT W/ 300SX; 9 5/8 @ 3025' CMT W/ 1200SX; 7 @ 7925' CMT W/ 850SX	3403	7850-7915
6	2 21S 37E	660 FSL 1980 FNL CO	OIL	30025063730000	9/51	7854 13 3/8 @ 225' CMT W/ 250SX; 8 5/8 @ 3162' CMT W/ 1950SX; 5 1/2 @ 7852' CMT W/ 825SX	4044	10/02 P&A 7828-7844
7	2 21S 37E	660 FSL 330 FEL CON	OIL	30025063520000	5/53	5970 12 3/4 @ 309' CMT W/ 350SX; 8 5/8 @ 3099' CMT W/ 2300SX; 5 1/2 @ 5750' CMT W/ 195SX	4850	5750-5970 O.H.
8	2 21S 37E	660 FSL 660 FEL CON	OIL	30025063630000	3/52	8168 13 3/8 @ 225' CMT W/ 350SX; 8 5/8 @ 2084' CMT W/ 1075SX; 5 @ 8167' CMT W/ 975SX	4306	8000-8140
9	2 21S 37E	660 FSL 660 FNL CO	OIL	30025063690000	9/50	7906 13 3/8 @ 223' CMT W/ 300SX; 8 5/8 @ 3150' CMT W/ 2200SX; 5 1/2 @ 7760' CMT W/ 500SX	5452	7760-7906 O.H.
10	2 21S 37E	710 FSL 610 FNL CO	OIL-WO	30025063700004	9/88	6718 13 3/8 @ 228' CMT W/ 250SX; 8 5/8 @ 3150' CMT W/ 1700SX; 5 1/2 @ 6536' CMT W/ 500SX	4228	12/57 7612-7697 1/74 plug 7650, perf 6562-6828 1/88 sq 6562-6828 & 7612-7697
11	2 21S 37E	860 FSL 1980 FEL CO	OIL	30025063480000	5/52	7778 12 3/4 @ 259' CMT W/ 300SX; 8 5/8 @ 2989' CMT W/ 1100SX; 5 1/2 @ 7777' CMT W/ 870SX	3761	7595-7740
12	2 21S 37E	990 FSL 2300 FNL CO	OIL	30025064980000	5/56	5914 13 3/8 @ 283' CMT W/ 300SX; 8 5/8 @ 3148' CMT W/ 1500SX; 5 1/2 @ 5913' CMT W/ 100SX	5451	762 6698-6772
13	2 21S 37E	990 FSL 990 FNL CO	OIL	30025064900000	10/56	5910 13 3/8 @ 303' CMT W/ 300SX; 8 5/8 @ 3148' CMT W/ 1100SX; 5 1/2 @ 5812' CMT W/ 200SX	4889	5807 5837
14	2 21S 37E	1980 FSL 660 FNL CO	OIL	30025063670000	8/49	6746 13 3/8 @ 226' CMT W/ 300SX; 8 5/8 @ 3047' CMT W/ 2000SX; 5 1/2 @ 6870' CMT W/ 500SX	4362	5812-5910 O.H.
15	2 21S 37E	1980 FSL 1980 FNL CO	OIL	30025063750000	11/51	6704 13 3/8 @ 208' CMT W/ 250SX; 8 5/8 @ 3145' CMT W/ 2000SX; 5 1/2 @ 2940' CMT W/ 755SX	2940	6670-6746 O.H.
16	2 21S 37E	1980 FSL 1980 FNL CO	OIL	30025063720000	5/51	8207 13 3/8 @ 225' CMT W/ 300SX; 8 5/8 @ 3769' CMT W/ 2000SX; 5 1/2 @ 8065' CMT W/ 1080SX	3079	6598-6699
17	2 21S 37E	510 FSL 860 FEL CON	OIL-WO	30025064980003	11/01	7975 10 3/4 @ 259' CMT W/ 250SX; 7 5/8 @ 3149' CMT W/ 1775SX; 5 1/2 @ 7974' CMT W/ 400SX	4114	O.H. 8065-8207 10/86 BP 8000, 7668-7802 5/87 BP 7600, 7014-7276
18	2 21S 37E	660 FSL 660 FEL CON	OIL	30025064970000	6/50	6760 13 3/8 @ 224' CMT W/ 250SX; 9 5/8 @ 3049' CMT W/ 1200SX; 7 @ 6759' CMT W/ 775SX	2636	7868-7966
19	2 21S 37E	810 FSL 660 FEL CON	OIL-WO	30025065030001	11/63	7825 10 3/4 @ 260' CMT W/ 250SX; 7 5/8 @ 3149' CMT W/ 1420SX; 5 1/2 @ 7805' CMT W/ 625SX	1820	2/62 6890-7275 6/84 sq 6890-7275, perf 7517-7776
20	2 21S 37E	1131 FSL 1342 FEL CO	OIL	30025344360000	8/98	6800 8 5/8 @ 1310' CMT W/ 410SX; 5 1/2 @ 6800' CMT W/ 1365SX	499	11/01 bp 4300, perf 3853-4006
21	2 21S 37E	1330 FSL 315 FEL CO	OIL	30025344370000	8/98	6800 8 5/8 @ 1315' CMT W/ 410SX; 5 1/2 @ 6800' CMT W/ 1315SX	730	6645-6705
22	2 21S 37E	1470 FNL 1350 FEL CO	OIL	30025355450000	9/01	6880 8 5/8 @ 1225' CMT W/ 460SX; 5 1/2 @ 6880' CMT W/ 1375SX	533	7528-7676
23	2 21S 37E	1715 FNL 409 FEL CO	OIL-WO	30025064750001	12/01	6580 10 3/4 @ 207' CMT W/ 150SX; 7 5/8 @ 3004' CMT W/ 700SX; 5 1/2 @ 6453' CMT W/ 300SX	3580	11/63 3958-4069
24	2 21S 37E	1980 FNL 1980 FEL CO	OIL	30025064520000	6/51	7981 10 3/4 @ 268' CMT W/ 250SX; 7 5/8 @ 3009' CMT W/ 1200SX; 5 1/2 @ 7980' CMT W/ 525SX	2953	11/02 P&A
25	2 21S 37E	1980 FNL 2310 FEL CO	OIL	30025064560000	7/52	7800 13 3/8 @ 253' CMT W/ 250SX; 9 5/8 @ 3099' CMT W/ 1000SX; 7 5/8 @ 7795' CMT W/ 1250SX	surf	5702 6690
26	2 21S 37E	1980 FNL 660 FEL CO	OIL	30025064530000	8/51	7728 10 3/4 @ 260' CMT W/ 150SX; 7 5/8 @ 3099' CMT W/ 1525SX; 5 1/2 @ 7727' CMT W/ 404SX	3858	5593 6658
27	2 21S 37E	1980 FSL 1980 FEL CO	OIL	30025064680000	10/51	7717 12 3/4 @ 329' CMT W/ 350SX; 8 5/8 @ 3100' CMT W/ 1400SX; 5 1/2 @ 7711' CMT W/ 500SX	2100	5613 6668
28	2 21S 37E	2100 FSL 760 FEL CO	OIL-WO	30025064700002	6/90	7573 11 3/4 @ 305' CMT W/ 350SX; 7 5/8 @ 3105' CMT W/ 1100SX; 5 1/2 @ 7573' CMT W/ 400SX	3743	6453 6580 O.H.
29	2 21S 37E	2388 FSL 1306 FEL CO	OIL	30025344340000	9/98	6850 8 5/8 @ 1325' CMT W/ 410SX; 5 1/2 @ 6850' CMT W/ 1350SX	618	12/01 bp @ 4250, perf 3845-3958
30	2 21S 37E	330 FNL 990 FEL CON	OIL	30025064680000	12/51	7774 13 3/8 @ 215' CMT W/ 200SX; 8 5/8 @ 3002' CMT W/ 2300SX; 5 1/2 @ 7772' CMT W/ 350SX	4860	7827 7965
31	2 21S 37E	550 FNL 740 FEL CON	OIL	30025359050000	6/02	4200 8 5/8 @ 400' CMT W/ 250SX; 5 1/2 @ 4200' CMT W/ 850SX	276	7520 7782

19	10 21S 37E	660 FNL 525 FEL CON	OIL	30025064470000	1/51	7463 13 3/8 @ 196' CMT W/ 200SX; 8 5/8 @ 2985' CMT W/ 1500SX; 5 1/2 @ 7462' CMT W/ 500SX	5154	1642-6690 1/53 5650-6696 1063 5754-5878 7125-7875 O H 4/57 bp @ 7640, perf 6618-6675 1/59 sq 6618-75, perf 7185-7390 7/59 6935-7390 4/74 sq 5346-5590, pb @ 6400(76900) perf 6530-6714 9/89 5736-6717 5/86-6559 7820-7930 1163 5736-7340
18	10 21S 37E	660 FNL 660 FEL CON	OIL-WO	30025064460005	9/89	7875 13 3/8 @ 228' CMT W/ 175SX; 9 5/8 @ 2887' CMT W/ 1200SX; 5 1/2 @ 7725' CMT W/ 650SX	4725	
17	11 21S 37E	1200 FSL 1400 FWL C	OIL	30025348850000	6/00	6860 8 5/8 @ 1341' CMT W/ 460SX; 5 1/2 @ 6860' CMT W/ 1340SX	675	5590-6660
12	11 21S 37E	1980 FSL 1980 FWL C	20IL	30025065340000	5/62	7492 13 3/8 @ 350' CMT W/ 250SX; 9 5/8 @ 3093' CMT W/ 1200SX; 7 @ 7492' CMT W/ 625SX	4167	6522-7450
10	11 21S 37E	1980 FSL 990 FWL C	20IL	3002502180000	1/64	7200 13 3/8 @ 366' CMT W/ 300SX; 9 5/8 @ 3008' CMT W/ 900SX; 5998' of 7" & 1202' of 4 1/2" cmt w/ 930 sk	3400	5690-7158
9	11 21S 37E	2310 FSL 345 FWL C	OIL	30025065370000	4/52	7575 13 3/8 @ 245' CMT W/ 275SX; 8 5/8 @ 3001' CMT W/ 2450SX; 5 1/2 @ 7490' CMT W/ 500SX	5182	7/65 6467-6654 6530-6646 1270 6152-6240 1/73 5640-5727 6180-6711 7/64 5724-6676 6/90 5679-6676 6530-6560 11/64 5702-5898 5/83 5702-6505 7506-7630 9/63 5700-7370 7/01 BP @ 6677 & 970, 3851-3974 7652-7715
13	11 21S 37E	660 FSL 1980 FWL C	OIL-WO	30025065330002	6/90	6711 10 3/4 @ 254' CMT W/ 250SX; 7 5/8 @ 3049' CMT W/ 1242SX; 5 1/2 @ 6479' CMT W/ 467SX; 3 1/2 @ 6108-6711	2007	
11	11 21S 37E	660 FSL 660 FWL C	OIL	30025065320000	10/50	7523 10 3/4 @ 269' CMT W/ 225SX; 7 5/8 @ 3069' CMT W/ 1780SX; 5 1/2 @ 6699' CMT W/ 950SX	surf	
3	11 21S 37E	1980 FNL 330 FWL C	OIL	30025065250000	8/51	7659 10 3/4 @ 262' CMT W/ 250SX; 7 5/8 @ 3099' CMT W/ 105SX; 5 1/2 @ 7658' CMT W/ 550SX	2391	
1	11 21S 37E	510 FNL 660 FWL C	OIL	30025065240000	10/50	7751 10 3/4 @ 248' CMT W/ 250SX; 7 5/8 @ 3049' CMT W/ 865SX; 5 1/2 @ 7750' CMT W/ 600SX	2004	
5	12 21S 37E	1650 FNL 941 FWL	OIL	30025065400000	9/53	8033 10 3/4 @ 264' CMT W/ 250SX; 7 5/8 @ 3135' CMT W/ 1360SX; 5 1/2 @ 8032' CMT W/ 467SX	3560	7618-7994
2	12 21S 37E	330 FNL 810 FWL	TA	30025065470000	3/52	8149 13 3/8 @ 260' CMT W/ 260SX; 9 5/8 @ 3139' CMT W/ 1200SX; 7 @ 8148' CMT W/ 1200SX	1764	7770-8096
1	13 21S 37E	660 FNL 660 FWL		30025065630000	1/53	7165 13 3/8 @ 185' CMT W/ 200SX; 8 5/8 @ 2868' CMT W/ 1150SX; 5 1/2 @ 2667-6994' CMT W/ 600SX	2667	O H 6994-7165
13	21S 37E	660 FNL 880 FEL		30025065650000	5/59	7400 13 3/8 @ 142' CMT W/ 150SX; 8 5/8 @ 3070' CMT W/ 400SX; 5 1/2 @ 7400' CMT W/ 350SX	5784	7232-7362
3	13 21S 37E	1660 FNL 990 FEL		30025065640000	12/57	6000 13 3/8 @ 125' CMT W/ 200SX		D&A
18	14 21S 37E	139 FNL 1280 FWL C	OIL	30025347400000	10/18	8 5/8 @ 1269' CMT W/ 460SX; 5 1/2 @ 6860' CMT W/ 1400SX	398	5606-6648
16	14 21S 37E	990 FNL 1980 FWL C	OIL-WO	30025065810003	5/20	13 3/8 @ 221' CMT W/ 250SX; 8 3/8 @ 3001' CMT W/ 2100SX; 5 1/2 @ 6940' CMT W/ 450SX	4863	6940-7443 O H 9/62 5705-6618 3/90 sq 5578-5814, perf 5704-5680 6577-6633 4/87 O H 6808-7180
1	14 21S 37E	1980 FNL 1980 FEL CONGRESS		30025065820000	3/52	7573 13 3/8 @ 205' CMT W/ 750SX; 8 5/8 @ 3000' CMT W/ 2200SX; 5 1/2 @ 6808' CMT W/ 300SX	5423	

PROPOSED P & A LOCKHART B-13A NO.5

660' FSL, 1980' FWL

SEC. 13, T21S, R37E

LEA COUNTY, NEW MEXICO

SALT: TOP-1490'
BASE-2545'

SURFACE CASING

10-3/4", 32-3/4" H-40 @289'
W/250 SX (CIRC.)

TOPS:

YATES 2678'
7R 2944'
QUEEN 3512'
PENROSE 3665'
GLORIETTA 5310'
BLINEBRY 5760'

INTERMATE CASING

7-5/8" 24#, H-40 @3149'
IN 9-7/8" HOLE
W/1335 SX TOC @1475' (TS)

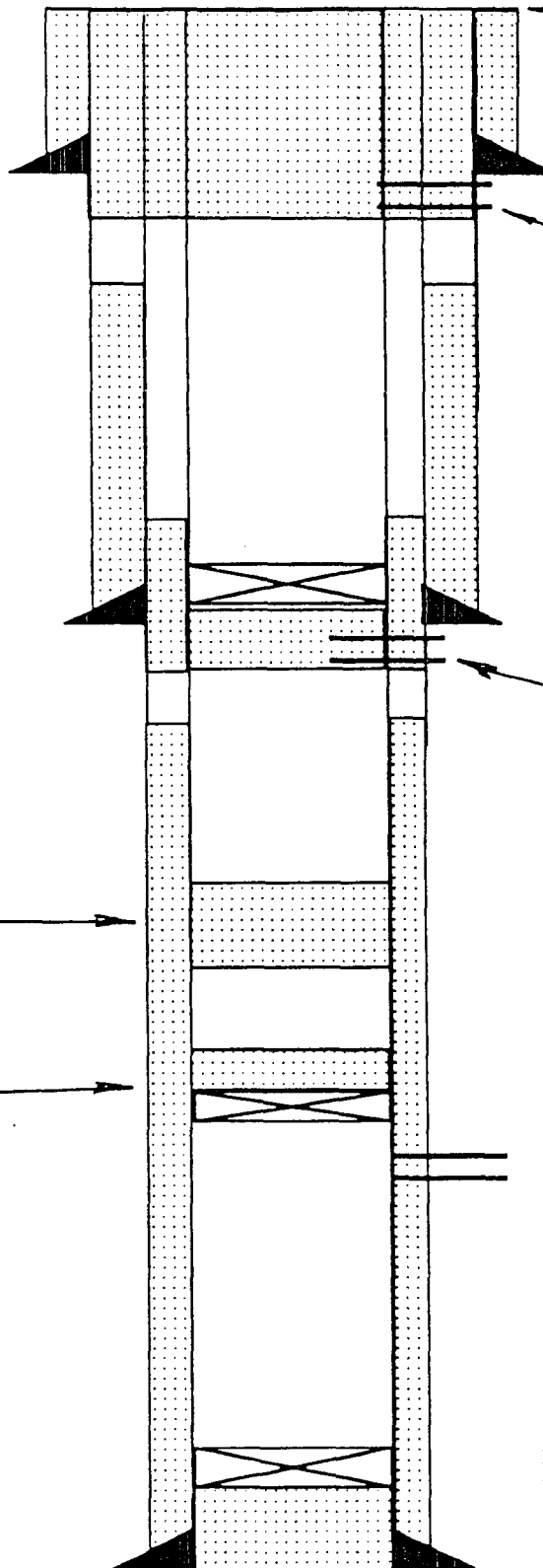
SAN ANDRES PLUG:
85 SX CMT. (4475'-5100')

BLINEBRY PLUG:
CIBP @5700' CAP W/25 SX
(240') CMT

PRODUCTION CASING

5-1/2", 14# & 15.5# J-55
@6048' IN 6-3/4" HOLE
W/820 SX TOC @4250' (TS)

API#: 30025-08559



CAP W/1/4" METAL PLAT
P & A MARKER

ELEVATION: 3431' DF
DF 11' AGL

SFC PLUG:
PERF 5-1/2" & 7-5/8"
@295'.
CIRC. CMT. TO SFC.
PLUG IN 5-1/2' FROM
295' TO SFC

7-5/8" SHOE PLUG:
PERF @3153'. SQZ 20 S
CMT
BELOW RETAINER
@3125'.
(TOC BEHIND
5-1/2" = 2,890')

BLINEBRY PERFS
5718'-80', 5818'-72',
5904'-54'

PBTD: 8000' (CIBP PUSHED TO
BOTTOM)

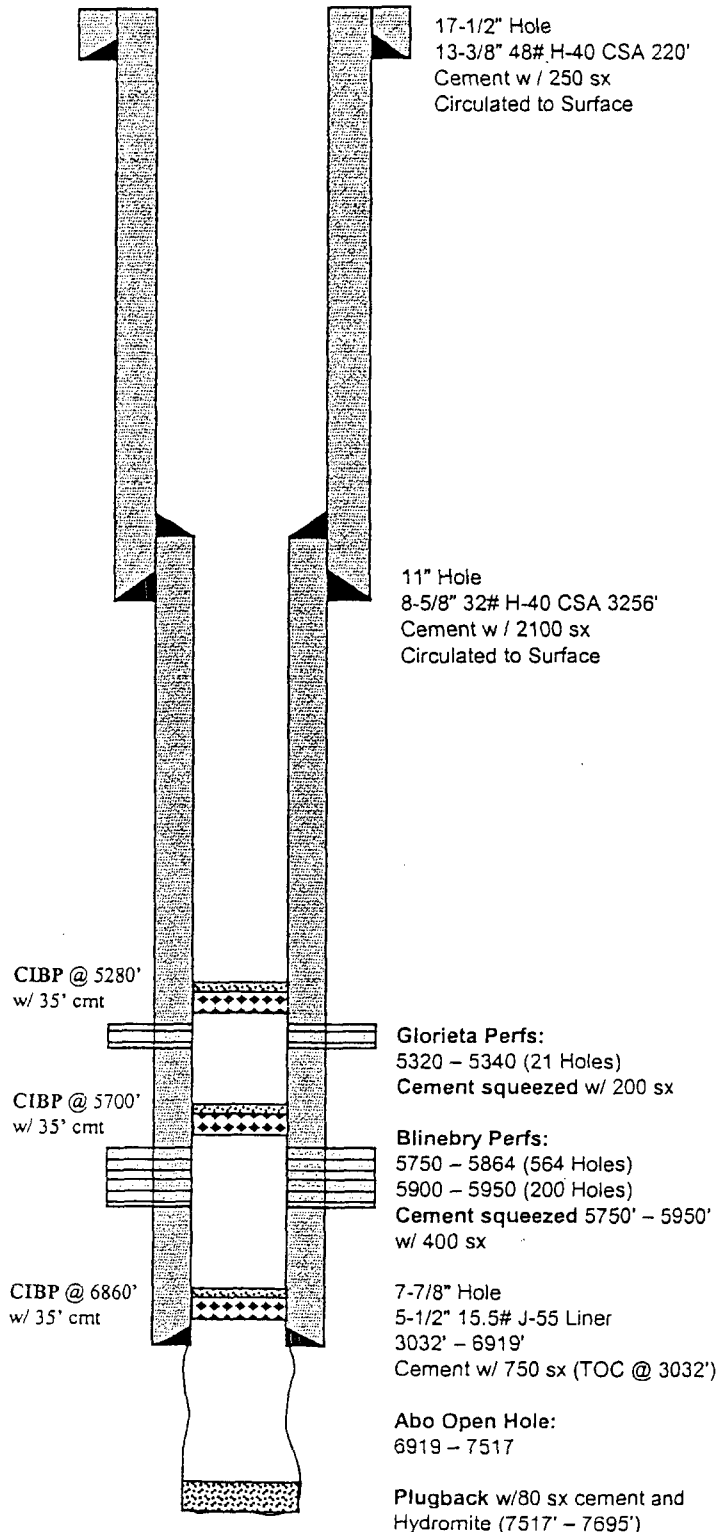
TD: 8050'

DATE: 06/27/94
BY: JOEL PORTER

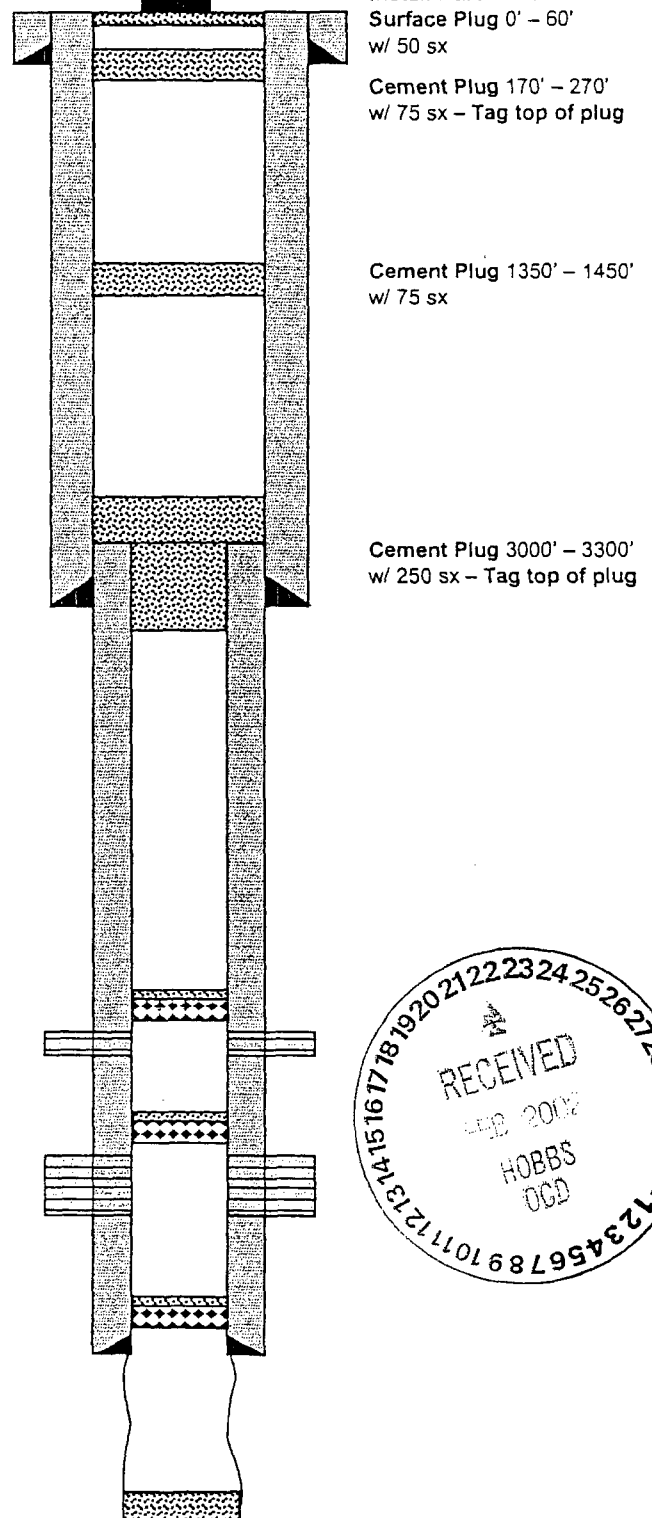
WELL: Chiesher No. 1
 POOL: Wantz Abo
 LOCATION: 1980' FSL & 1980' FWL
 Unit K, Sec 12, T-21S, R-37E
 COUNTY/STATE: Lea County, New Mexico

API No. 30-025-06549

Current Completion



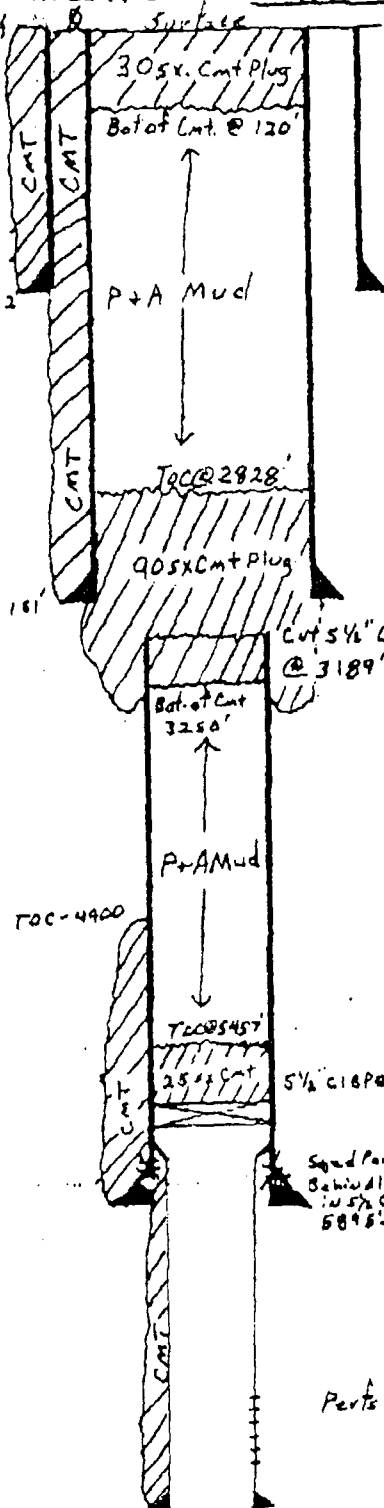
P&A Proposal



WELL DATA SHEET

LEASE Elliot Federal WELL NO. 2 FIELD Drinkard DATE 1-31-96LOCATION 1990 FEET FROM South LINE AND 1930 FEET FROM West LINESECTION 1 TOWNSHIP 21-S RANGE 37-E COUNTY Lea STATE N.M.

LEASE Defig. & Ser. No. NMLCP65523A

* WH Conn's NoneGE: _____
KDB to GE _____
DF to GE _____10 3/4" OD 40.5 lbs.
Surf. Pipe set @
242 w/ 125 sx
cmt. Circ? Yes7 5/8" OD 24 lbs.
910 Thd Gr J-55
Csg set at
3151' w/ 400 sx
Cmt. Circ? No
TOC at Surface by
Braden Head Topt. 115 1/2" OD
Gr J-55
15.5' Csg set @
5953' w/ 100 sx
Cmt. Circ? No
TOC @ 4900 by Calc.Date Completed 1-31-96 P+AD
Initial Formation _____
FROM: 7079 TO: Surface
Initial Production _____ BOPD _____ BWPD
MCFPD _____ GOR

Plugging Data:

1-29-96 Set CIBP @ 5675', Spot 4030' P+A
Mud from 5675' to 7200'.
1-30-96 Set 255x Cmt Plug from 5675'
to 5457' (218') - Cut 5 1/2" Csg. @ 3189'. - P+H+LD.
R/H w/ 236 O.E. Tbg. - Spot 905x Cmt Plug
from 3250' up to 2779'. - P+H w/ Tbg.
1-31-96 - R/H + Tag Cmt. @ 2828'. - Circ. P+A
Mud from 2828' up to Surface. P+H w/ Tbg.
to 120'. - Cmt. 5 1/2" Csg. from 120' to Surface
w/ 30 sx. Cmt.

Subsequent Workover or Reconditioning:

Present Prod. _____ BOPD _____ BWPD
MCFPD _____ GOR
Date _____

Remarks or Additional Data:

Perts 6622' to 6712'

4" 10.46" J-55 Csg.
From 7079' to 5724'

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

- 1) Proposed average initial injection rate is 8325 bwpd.
Maximum injection rate should not exceed 10,000 bwpd.
- 2) The injection system will be operated as a closed system.
- 3) Proposed average initial injection pressure is 1120 psi (0.2 psi/ft).
Proposed maximum pressure will not exceed the pressure limitations ordered by the Division. Apache Corp will perform step rate tests and anticipates securing a maximum injection pressure of 1375 psi (same as the Northeast Drinkard Unit).
- 4) Source water will come from the San Andres Formation.
- 5) Not Applicable.

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

The Formations being targeted for water injection are the Blinebry, Tubb and Drinkard at depths ranging from approximately 5600' to 6800'. These formations are Leonardian in age and are a sequence of shallow marine carbonates, which have for the most part been dolomatized. A five percent porosity cut off is used to determine "pay" as porosity less than this is considered non-productive at the existing and proposed reservoir pressures and reservoir fluid regimes. Net pay isopach maps show the areal extent of the targeted reservoir. The vertical extent of the reservoir is limited top and bottom by impermeable shales and carbonates. All injected fluids should remain in the reservoir with the exception of cycling to the surface through wellbores.

Based on communications with the New Mexico States Engineer's Roswell office and a review of online files there are 15 fresh water wells (see attached) in the area of review. The deepest of these wells is 136'. Which is the assumed base of fresh water. All wellbores involved with the proposed injection program are constructed to not allow injection water into this fresh water source.

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

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

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

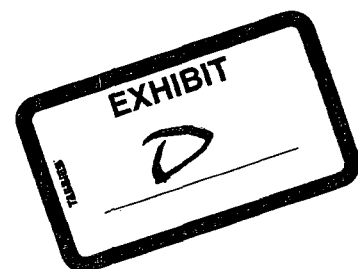
XI It appears the only strata within one mile of our proposed unit which contains water of possible drinking quality is confined to 136' and shallower. No contamination of this drinking water should occur as all existing wellbores which penetrate the Blinebry, Tubb and Drinkard are constructed as to not allow injection water to escape the system.

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

OLD WELL NAMES						CONVERTED
	LEASE NAME	WELL #	LOCATION	FOOTAGE	TYPE	INJ VOLUMES
1	ELLIOTT B	4	1 21S 37E	3630 FNL, 330 FWL	OIL	
2	ELLIOTT B	5	1 21S 37E	4620 FSL, 1650 FWL	OIL	
3	ELLIOTT B	3	1 21S 37E	660 FSL, 2310 FEL	OIL	
4	ELLIOTT B	2	1 21S 37E	2970 FSL, 1650 FWL	OIL	
5	COOGAN FEDERAL	2	1 21S 37E	4195 FNL, 2310 FWL	OIL	
6	ELLIOTT FEDERAL	1	1 21S 37E	1650 FSL, 330 FWL	OIL	
7	ELLIOTT	6	1 21S 37E	660 FSL, 1980 FWL	OIL	
8	MONTEREY FED	7	1 21S 37E	990 FSL, 2480 FWL	OIL	
9	H T FEDERAL	1	1 21S 37E	1980 FSL, 1980 FEL	OIL	
10	H T FEDERAL	2	1 21S 37E	3100 FSL, 1980 FEL	OIL	
11	LOCKHART B 11	2	11 21S 37E	330 FNL, 330 FWL	OIL	
12	LOCKHART B 11	5	11 21S 37E	330 FNL, 1650 FEL	OIL	
13	LOCKHART B 11	7	11 21S 37E	330 FNL, 480 FEL	OIL	
14	LOCKHART B 11	10	11 21S 37E	1980 FNL, 330 FEL	OIL	
15	LOCKHART B 11	12	11 21S 37E	660 FNL, 1980 FEL	OIL	
16	LOCKHART B 11	13	11 21S 37E	660 FSL, 330 FEL	OIL	
17	LOCKHART B 11	15	11 21S 37E	2310 FSL, 1650 FEL	OIL	
18	LOCKHART B 11	16	11 21S 37E	1980 FNL, 1980 FWL	OIL	
19	LOCKHART B 12	1	12 21S 37E	330 FNL, 660 FWL	OIL	
20	LOCKHART B 12	3	12 21S 37E	990 FNL, 1650FWL	OIL	
21	LOCKHART B 12	7	12 21S 37E	330 FNL, 330 FWL	OIL-SI	
22	LOCKHART B 12	8	12 21S 37E	1980 FNL, 1980 FWL	OIL	
23	LOCKHART B 12	9	12 21S 37E	1980 FNL, 2310 FEL	OIL-SI	
24	LOCKHART B 12	10	12 21S 37E	660 FNL, 2310 FEL	OIL	
25	LOCKHART B 13 A	1	13 21S 37E	660 FSL, 660 FWL	OIL	
26	LOCKHART B 13 A	3	13 21S 37E	1980 FNL, 1980 FWL	OIL-SI	
27	LOCKHART B 13 A	6	13 21S 37E	1980 FNL, 1980 FEL	OIL-SI	
28	LOCKHART B 13 A	7	13 21S 37E	1980 FSL, 1980 FEL	OIL	
29	LOCKHART B 13 A	8	13 21S 37E	1980 FSL, 660 FWL	OIL	
30	LOCKHART B-13 A	9	13 21S 37E	660 FSL, 2100 FWL	OIL	
31	LOCKHART B-14 A	1	14 21S 37E	1980 FNL, 660 FEL	OIL	
32	LOCKHART B-14 A	2	14 21S 37E	660 FSL, 660 FEL	OIL-TA	
33	COLL	2	12 21S 37E	1980 FSL, 660 FWL	OIL-TA	
34	COLL	1	12 21S 37E	2310 FSL, 1650 FEL	OIL-TA	
35	PLUMLEE	1	12 21S 37E	660 FSL, 1980 FWL	OIL	
36	SMITH	2	14 21S 37E	660 FNL, 1980 FEL	OIL	
37	SMITH	3	14 21S 37E	1980 FNL, 1650 FEL	OIL	
38	SMITH	4	14 21S 37E	330 FNL, 2310 FEL	OIL	
39	GULF BUNIN	3	13 21S 37E	660 FNL, 2310 FEL	OIL	
40	GULF BUNIN	4	13 21S 37E	660 FNL, 860 FWL	OIL	
						0



OLD WELL NAMES						CONVERTED
LEASE NAME	WELL #	LOCATION	FOOTAGE	TYPE	INJ VOLUMES	
1 ELLIOTT B	1	1 21S 37E	2970 FSL, 330 FWL	OIL	429	
2 ELLIOTT-MONTEREY	5	1 21S 37E	660 FSL, 810 FWL	OIL	641	
3 LOCKHART B 11	4	11 21S 37E	330 FNL, 1650 FWL	OIL	392	
4 LOCKHART B 11	6	11 21S 37E	330 FNL, 330 FEL	OIL	250	
5 LOCKHART B 11	8	11 21S 37E	660 FSL, 1980 FEL	OIL	870	
6 LOCKHART B 11	9	11 21S 37E	660 FNL, 330 FEL	OIL	528	
7 LOCKHART B 11	11	11 21S 37E	1980 FSL, 330 FEL	OIL	717	
8 LOCKHART B 11	14	11 21S 37E	1650 FNL, 1650 FEL	OIL	661	
9 LOCKHART B 11	17	11 21S 37E	1980 FNL, 1980 FEL	OIL	393	
10 LOCKHART B 11 E	1	11 21S 37E	2310 FNL, 660 FWL	OIL	817	
11 LOCKHART B 12	4	12 21S 37E	1650 FNL, 660 FWL	OIL	60	
12 LOCKHART B 12	6	12 21S 37E	330 FNL, 1980 FWL	OIL	486	
13 LOCKHART B 12	11	12 21S 37E	1980 FNL, 660 FWL	OIL-SI	250	
14 LOCKHART B 13 A	2	13 21S 37E	1980 FNL, 660 FWL	OIL	346	
15 LOCKHART B-14 A	3	14 21S 37E	660 FNL, 330 FEL	OIL	519	
16 CHESHER	2	12 21S 37E	660 FSL, 660 FWL	OIL-TA	436	
17 GULF BUNIN	2	13 21S 37E	660 FNL, 1650 FWL	OIL	529	
						8324



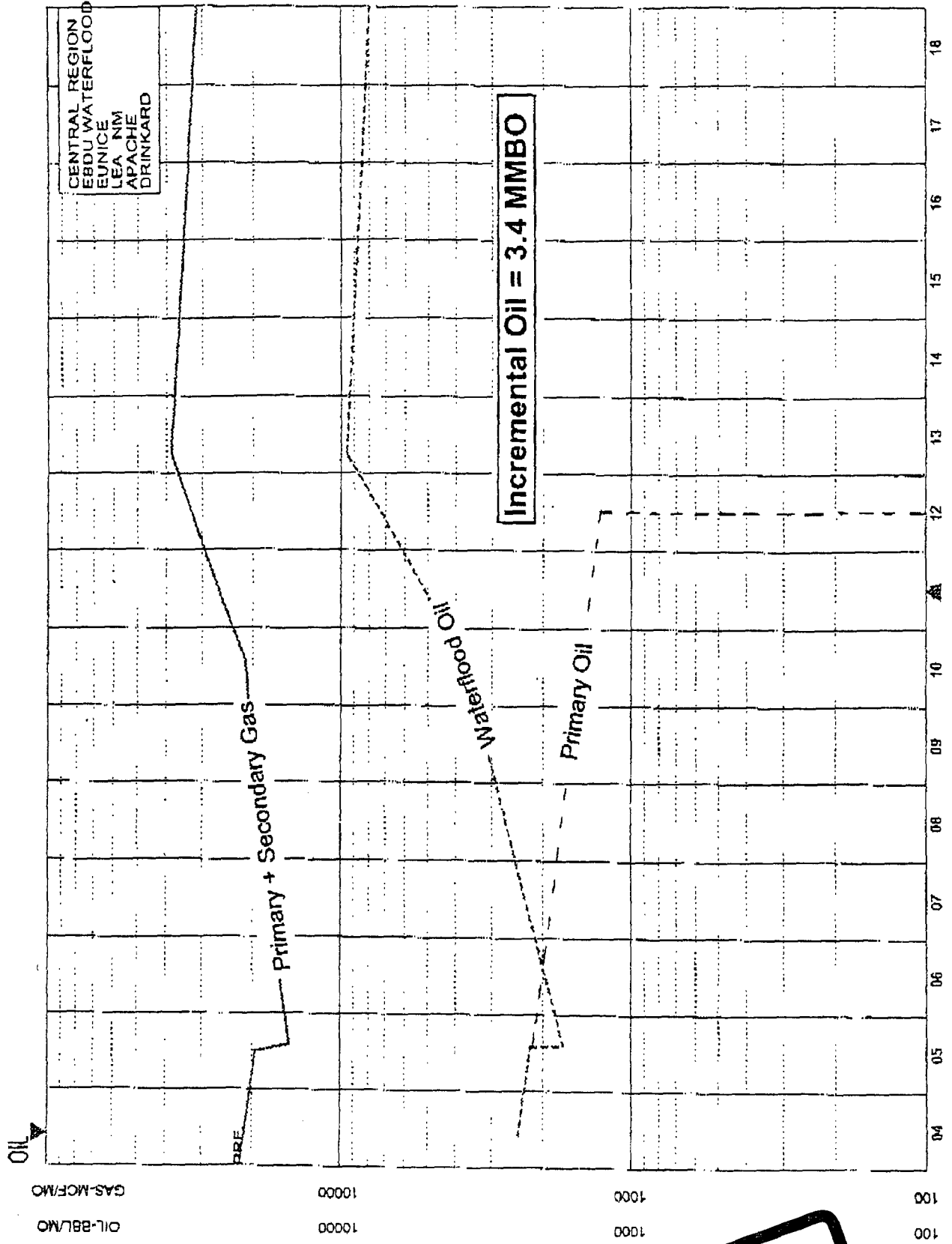


EXHIBIT
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