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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

2008 OCT 2 PM 1 41 - Engineering Bureau -  
1220 South St. Francis Drive, Santa Fe, NM 87505



RECEIVED

2 PM 1 41

**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST 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:**

[NSL-Non-Standard Location] [NSP-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]

[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

[D] Other: Specify \_\_\_\_\_

[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 is 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] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

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

Tony Beilman  
Print or Type Name

*Tony Beilman*  
Signature

Operations Manager  
Title  
Date 9/23/08

trinityengineering@sbcglobal.net  
E-Mail Address

September 22, 2008

Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Attention: Mr. Mark E. Fesmire, Director

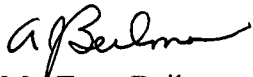
Re: Form C-108  
Melrose Operating Company  
Jalmat Field Yates Sand Unit Wells No. 179, 185, 195, 222 and 250  
Jalmat (Tansill-Yates-Seven Rivers) Oil & Gas Pool  
Lea County, New Mexico

Dear Mr. Fesmire,

Enclosed please find a Division Form C-108 (Application for Authorization to Inject) to expand the Jalmat Field Yates Sand Unit Waterflood Project. Division Order No. R-2243 dated May 28, 1962 approved secondary recovery operations within the Jalmat Field Yates Sand Unit Area ("Unit Area"). The Unit Area was established by Division Order No. R-2235 dated May 3, 1962. Division Orders No. WFX-633 dated May 27, 1992, WFX-798 dated April 5, 2004, WFX-809 dated January 14, 2005 and WFX-821 dated September 27, 2006 have permitted additional injection wells within the Unit Area. Melrose Operating Company proposes to convert the Jalmat Field Yates Sand Unit Wells No. 179, 185, 195, 222 and 250 to injection in order to complete an efficient production/injection pattern within the Unit Area. These wells are located in Sections 13 and 14, Township 22 South, Range 35 East, NMPM, Lea County, New Mexico.

All the required information is enclosed. If additional information is needed, please contact me at (469) 721-2046.

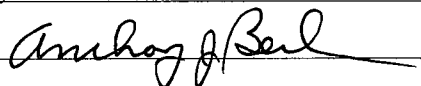
Sincerely, \



Mr. Tony Beilman, Operations Manager  
Melrose Operating Company  
1000 W. Wilshire  
Suite 223  
Oklahoma City, Oklahoma 73116

Xc: OCD-Hobbs

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage  
Application qualifies for administrative approval? ☒ Yes ☐ No
- II. OPERATOR: Melrose Operating Company  
ADDRESS: 1000 W. Wilshire, Suite 223, Oklahoma City, Oklahoma 73116  
CONTACT PARTY: Mr. Tony Beilman PHONE: (469) 721-2046
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☒ Yes ☐ No  
If yes, give the Division order number authorizing the project: R-2243 dated 5/28/1962 (Also see WFX-633, 798, 809, 821)
- 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: Tony Beilman TITLE: Operations Manager  
SIGNATURE:  DATE: 9/23/08  
E-MAIL ADDRESS: trinityengineering@sbcglobal.net
- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: \_\_\_\_\_

### 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.

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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.

C-108 Application  
Melrose Operating Company  
Jalmat Field Yates Sand Unit ("JFYSU") Wells No. 179, 185, 195, 222 and 250  
Sections 13 & 14, T-22S, R-35E, NMPM  
Lea County, New Mexico

- I. The purpose of the application is to request approval to convert five wells to injection within the Jalmat Field Yates Sand Unit Waterflood Project in order to complete an efficient injection/production pattern.
- II. Melrose Operating Company  
1000 W. Wilshire  
Suite 223  
Oklahoma City, Oklahoma 73116  
Contact Party: Mr. Tony Beilman, Operations Manager (469) 721-2046
- III. Injection well data sheets and wellbore diagrams for each injection well are attached showing the proposed wellbore configurations.
- IV. This is an expansion of the Jalmat Field Yates Sand Unit Waterflood Project. This project was initially approved by Division Order No. R-2243 dated May 28, 1962. The Jalmat Field Yates Sand Unit Area ("Unit Area") was approved by Division Order No. R-2235 dated May 3, 1962. Division Orders No. WFX-633 (5/27/1992), WFX-798 (4/5/2004), WFX-809 (1/14/2005) and WFX-821 (9/27/2006), have permitted additional injection wells within the Unit Area.
- V. Enclosed is a map that identifies all wells/leases within a 2-mile radius of the Jalmat Field Yates Sand Unit Wells No. 179, 185, 195, 222 and 250. Also enclosed are individual maps that show a ½ mile radius circle drawn around each of the proposed injection wells.
- VI. Area of review ("AOR") well data is attached. Well construction data is included for all existing wells within the AOR. Also included are wellbore diagrams for each PA'd well within the AOR, and proposed well construction details for wells that are currently being drilled or are to be drilled within the AOR. An examination of this data indicates that all AOR wells are adequately cased, cemented and/or plugged and abandoned in order to preclude the movement of fluid from the injection zone into other formations or fresh water aquifers. **(Note: In calculating cement tops, a standard yield of 1.32 cu. ft./sack was utilized in addition to a fill factor of 70%).**
- VII 1. The average injection rate is anticipated to be approximately 500 BWPD/Well. The maximum rate will be approximately 1500 BWPD/Well. If the average or maximum rates increase in the future, the Division will be notified.

2. This will be a closed system.
3. Melrose Operating Company has recently conducted step rate injection tests on the JFYSU Wells No. 195, 222 and 250. The graphical and tabular data is enclosed for your review. The results of the step rate injection tests are summarized as follows:

<u>Well Name &amp; Number</u>	<u>Surface Injection Fracture Pressure</u>
JFYSU No. 195	1,182 psi
JFYSU No. 222	1,540 psi
JFYSU No. 250	No Parting Pressure Achieved (Max. surface pressure during test-1,728 psi)

**Based upon the results of the step rate injection tests, Melrose Operating Company respectfully requests that the maximum surface injection pressure for the five subject wells be assigned as follows:**

<u>Well Name &amp; Number</u>	<u>Maximum Surface Fracture Pressure</u>
JFYSU No. 179	1,182 psi 1150
JFYSU No. 185	1,182 psi 1150
JFYSU No. 195	1,182 psi 1100
JFYSU No. 222	1,540 psi 1400
JFYSU No. 250	1,728 psi 1150

4. Produced water from the Jalmat (Tansill-Yates-Seven Rivers) Oil & Gas Pool originating from wells within the Unit Area will be re-injected into the subject injection wells. A formation water analysis obtained from a Melrose Operating Company producing well within the Unit Area is enclosed. This formation water analysis shows total dissolved solids to be 80,968 mg/L.
  5. Injection is to occur into a formation that is oil productive.
- VIII. Geologic data was presented in Case No. 2546. This case, and resulting Order No. R-2243 initially authorized the Jalmat Field Yates Sand Unit Waterflood Project. The primary injection interval is the Yates-Seven Rivers formation which is Upper Guadalupian in age. Impermeable dolomite beds in between various sand members characterize this interval. The Ogallala aquifer is present in this area, and fresh water can be found at depths from surface to 200'.

- IX. No stimulation is planned.
- X. Logs were filed at the time of drilling, or will be filed at the conclusion of drilling operations.
- XI. According to data obtained from the New Mexico Office of the State Engineer (enclosed), there is one fresh water well located in the NE/4 NE/4 of Section 14, T-22 South, R-35 East, and is reportedly 215' feet deep, with water present at a depth of 185'. A water analysis from this well is also enclosed for your review.
- XII. Affirmative statement is enclosed.
- XIII. Proof of Notice is enclosed.

INJECTION WELL DATA SHEET

OPERATOR: Melrose Operating Company

WELL NAME & NUMBER: Jalmat Field Yates Sand Unit No. 179

WELL LOCATION: 730' FNL & 699' FWL  
FOOTAGE LOCATION

UNIT LETTER D SECTION 13 TOWNSHIP 22 South RANGE 35 East

WELLBORE SCHEMATIC

*See Attached Wellbore Schematic*

*5/21/08 SPUD well*

*STotal  
L case*

*Tonsill 3578  
Yates 3770*

*(No Final Prod. See Sunday)*

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12 1/4" Casing Size: 8 5/8" @ 433'

Cemented with: 375 Sx. or ft<sup>3</sup>

Top of Cement: Surface Method Determined: Circulated

Intermediate Casing  
Hole Size:                      Casing Size:                     

Cemented with:                      or ft<sup>3</sup>

Top of Cement:                      Method Determined:                     

Production Casing

Hole Size: 7 7/8" Casing Size: 5 1/2" @ 4,168'

Cemented with: 1<sup>st</sup> Stage-250 Sx. — TOC 3357 C.B.L.  
2<sup>nd</sup> Stage-660 Sx. or ft<sup>3</sup>

Top of Cement: Surface Method Determined: Circulated

Total Depth: 4,180'

Injection Interval

Perforated Interval - 3,772' - 4,002'

*4825  
1150*



### INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" Lining Material: Duo-Lined Tubing

Type of Packer: Baker AD-1 Tension Packer (IPC)

Packer Setting Depth: 3,672' or within 100' of the uppermost injection perforations.

Other Type of Tubing/Casing Seal (if applicable): None

#### Additional Data

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

If no, for what purpose was the well originally drilled: Well is drilled primarily as an injection well. The well may produced briefly to recover any flush production.

2. Name of the Injection Formation: Tansill-Yates-Seven Rivers

3. Name of Field or Pool (if applicable): Jalmat (Tansill-Yates-Seven Rivers) Oil & Gas Pool (33820)

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.

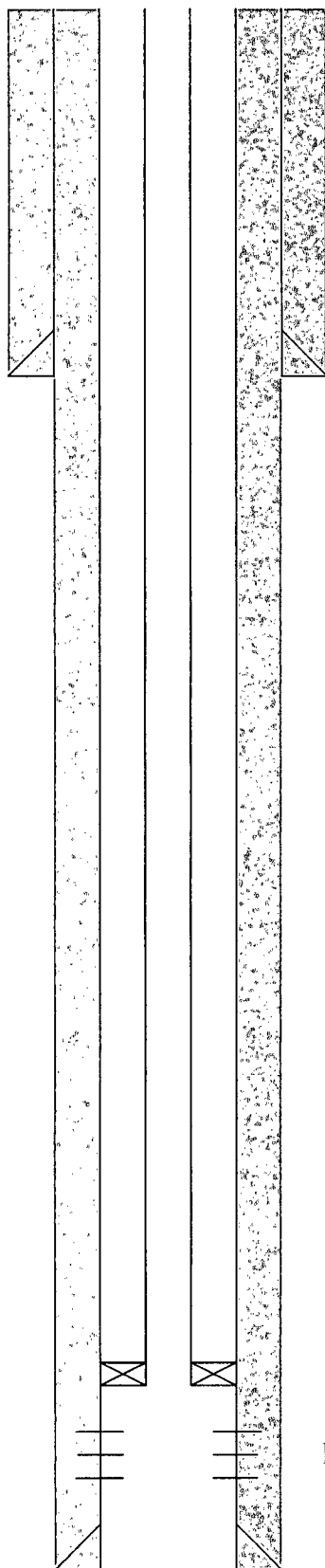
None

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

An examination of OCD records shows that within Sections 13 and 14, Township 22 South, Range 35 East, NMPM, there are no oil or gas zones underlying or overlying the proposed injection zone.

**Melrose Operating Company**  
**Jalmat Field Yates Sand Unit No. 179**  
**API No. 30-025-38869**  
**730' FNL & 699' FWL (Unit D)**  
**Section 13, T-22 South, R-35 East, NMPM**  
**Lea County, New Mexico**

**Date Drilled: May, 2008**



**12 1/4" Hole; Set 8 5/8" 24# J-55 Csg. @ 433'**  
**Cemented w/ 375 Sx. Class C. Cement**  
**circulated to surface.**

**2 3/8" Duo-lined tubing set in a Baker**  
**AD-1 (IPC) Tension Packer @ 3,672'**

**Injection Perforations: 3,772'-4,002'**

**7 7/8" Hole; Set 5 1/2" 15.5# J-55 Csg. @ 4,168'**  
**Cemented: 1<sup>st</sup> Stage-250 Sx. Circulated to DV**  
**Tool @ 3500' 2<sup>nd</sup> Stage-660 Sx. Circulated to**  
**Surface**

**T.D. -4,180'**

*CIRCT 3,772'*  
*CBL*

INJECTION WELL DATA SHEET

OPERATOR: Melrose Operating Company

WELL NAME & NUMBER: Jalmat Field Yates Sand Unit No. 185

WELL LOCATION: 692' FNL & 2089' FEL  
FOOTAGE LOCATION

UNIT LETTER B SECTION 13 TOWNSHIP 22 South RANGE 35 East

(38872)

WELLBORE SCHEMATIC

See Attached Wellbore Schematic

SLOR  
New Well

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12 1/4" Casing Size: 8 5/8" @ 395'

Cemented with: 375 Sx. or ft<sup>3</sup>

Top of Cement: Surface Method Determined: Circulated

Hole Size: Intermediate Casing Casing Size: ft<sup>3</sup>

Cemented with: ft<sup>3</sup>

Top of Cement: Method Determined: ft<sup>3</sup>

Hole Size: 7 7/8" Production Casing Casing Size: 5 1/2" @ 4,145'

Cemented with: 750 Sx. or ft<sup>3</sup>

Top of Cement: Surface Method Determined: Circulated

Total Depth: 4,150'

Injection Interval

Perforated Interval: 3,662' - 3,904'

HSEP  
160

3250 T9C  
1 CBL

### INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" Lining Material: Duo-Lined Tubing

Type of Packer: Baker AD-1 Tension Packer (IPC)

Packer Setting Depth: 3,562' or within 100' of the uppermost injection perforations.

Other Type of Tubing/Casing Seal (if applicable): None

#### Additional Data

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

If no, for what purpose was the well originally drilled: Well is drilled primarily as an injection well. The well may produced briefly to recover any flush production.

2. Name of the Injection Formation: Tansill-Yates-Seven Rivers

3. Name of Field or Pool (if applicable): Jalmat (Tansill-Yates-Seven Rivers) Oil & Gas Pool (33820)

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.

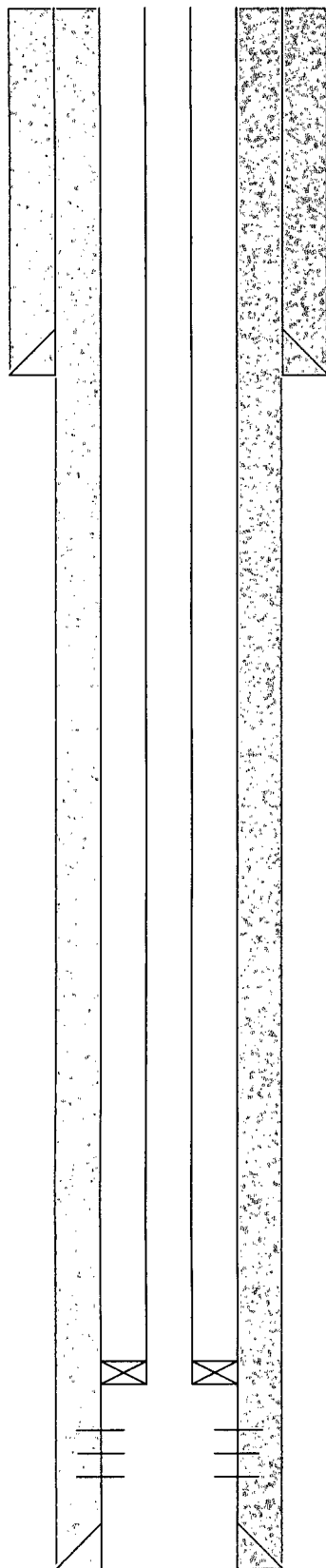
None

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

An examination of OCD records shows that within Sections 13 and 14, Township 22 South, Range 35 East, NMPM, there are no oil or gas zones underlying or overlying the proposed injection zone.

**Melrose Operating Company**  
**Jalmat Field Yates Sand Unit No. 185**  
**API No. 30-025-38872**  
**692' FNL & 2089' FEL (Unit B)**  
**Section 13, T-22 South, R-35 East, NMPM**  
**Lea County, New Mexico**

**Date Drilled: June, 2008**



**12 1/4" Hole; Set 8 5/8" 24# J-55 Csg. @ 395'**  
**Cemented w/ 375 Sx. Class C. Cement**  
**circulated to surface.**

**2 3/8" Duo-lined tubing set in a Baker**  
**AD-1 (IPC) Tension Packer @ 3562'**

**Injection Perforations: 3,662'-3,904'**

**7 7/8" Hole; Set 5 1/2" 15.5# J-55 Csg. @ 4,145'.**

**Cemented w/ 750 Sx. Class C. ~~Cement circulated to~~**  
**~~surface.~~**

**T.D. - 4,150'**

*TOC 3250 @ 3562' CMT*  
*CBL*

OPERATOR: Melrose Operating Company

OPERATOR: Melrose Operating Company

WELL NAME &amp; NUMBER: Jalmat Field Yates Sand Unit No. 195

WELL LOCATION:	1970' FNL & 448' FEL
	FOOTAGE LOCATION

H	14	22 South	35 East
UNIT LETTER	SECTION	TOWNSHIP	RANGE

## WELL CONSTRUCTION DATA

## Surface Casing

*See Attached Wellbore Schematic*

Hole Size: 12 1/4" Casing Size: 8 5/8" @ 453'

Cemented with: 375 Sx.

or  $\mathfrak{u}^3$

Top of Cement: \_\_\_\_\_ Surface\* \_\_\_\_\_ Method Determined: Circulated\*  
(\*Original TOC @ 100'; RIH w/ 1" and circulated w/ 100 Sx. Class C)

## Intermediate Casing

Hole Size: \_\_\_\_\_ Casing Size: \_\_\_\_\_

Cemented with:  $\text{ft}^3$  or

Top of Cement: \_\_\_\_\_  
Method Determined: \_\_\_\_\_

## Production Casing

Hole Size: 7 7/8" Casing Size: 5 1/2" @ 4,171'

Cemented with:  $400 + 350$   
750 Sx.

Top of Cement:

Method Determined: ~~Circulated~~

Total Depth: 4,180'

## Injection Interval

Perforated Interval – 3,829'–4,035'

1100  
~~1100~~  
1182

### INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" Lining Material: Duo-Lined Tubing

Type of Packer: Baker AD-1 Tension Packer (IPC)

Packer Setting Depth: 3,729' or within 100' of the uppermost injection perforations.

Other Type of Tubing/Casing Seal (if applicable): None

#### Additional Data

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

If no, for what purpose was the well originally drilled: Well is drilled primarily as an injection well. The well may produced briefly to recover any flush production.

2. Name of the Injection Formation: Tansill-Yates-Seven Rivers

3. Name of Field or Pool (if applicable): Jalmat (Tansill-Yates-Seven Rivers) Oil & Gas Pool (33820)

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.

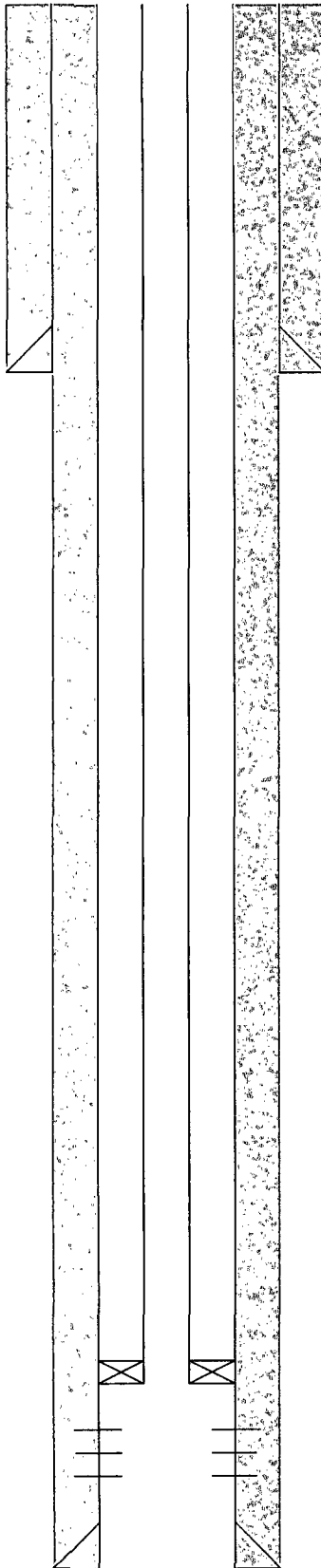
None

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

An examination of OCD records shows that within Sections 13 and 14, Township 22 South, Range 35 East, NMPM, there are no oil or gas zones underlying or overlying the proposed injection zone.

**Melrose Operating Company**  
**Jalmat Field Yates Sand Unit No. 195**  
**API No. 30-025-38874**  
**1970' FNL & 448' FEL (Unit H)**  
**Section 14, T-22 South, R-35 East, NMPM**  
**Lea County, New Mexico**

**Date Drilled: May, 2008**



**12 1/4" Hole; Set 8 5/8" 24# J-55 Csg. @ 453'**  
**Cemented w/ 375 Sx. Class C. Did not**  
**circulate. Tag TOC @ 100'. Pumped 100**  
**Sx. Class C down casing annulus. Cement**  
**circulated to surface.**

**2 3/8" Duo-lined tubing set in a Baker**  
**AD-1 (IPC) Tension Packer @ 3,729'**

**Injection Perforations: 3,829'-4,035'**

**7 7/8" Hole; Set 5 1/2" 15.5# J-55 Csg. @**  
**4,171'. Cemented w/ 750 Sx. Class C. ~~Cement~~**  
**~~circulated to surface.~~**

**T.D. 4,180'**

*TOC 970 Stage 2*  
*TOC 3634 Stage 1*  
*CBL results*



INJECTION WELL DATA SHEET

OPERATOR: Melrose Operating Company

WELL NAME & NUMBER: Jalmat Field Yates Sand Unit No. 222

WELL LOCATION: 606' FNL & 1802' FEL  
FOOTAGE LOCATION

UNIT LETTER B SECTION 14 TOWNSHIP 22 South RANGE 35 East

WELLBORE SCHEMATIC

See Attached Wellbore Schematic

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12 1/4" Casing Size: 8 5/8" @ 459'

Cemented with: 375 Sx. or ft<sup>3</sup>

Top of Cement: Surface Method Determined: Circulated

Intermediate Casing

Hole Size:                      Casing Size:                     

Cemented with:                      or ft<sup>3</sup>

Top of Cement:                      Method Determined:                     

Production Casing

Hole Size: 7 7/8" Casing Size: 5 1/2" @ 4,180'

Cemented with: 450 + 300  
750 Sx. or ft<sup>3</sup>

Top of Cement: Surface Method Determined: Circulated

Total Depth: 4,180'

Injection Interval

Perforated Interval: 3,853' - 4,024'

1540 psi  
1400

### INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" Lining Material: Duo-Lined Tubing

Type of Packer: Baker AD-1 Tension Packer (IPC)

Packer Setting Depth: 3,753' or within 100' of the uppermost injection perforations.

Other Type of Tubing/Casing Seal (if applicable): None

#### Additional Data

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

If no, for what purpose was the well originally drilled: Well is drilled primarily as an injection well. The well may produced briefly to recover any flush production.

2. Name of the Injection Formation: Tansill-Yates-Seven Rivers

3. Name of Field or Pool (if applicable): Jalmat (Tansill-Yates-Seven Rivers) Oil & Gas Pool (33820)

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.

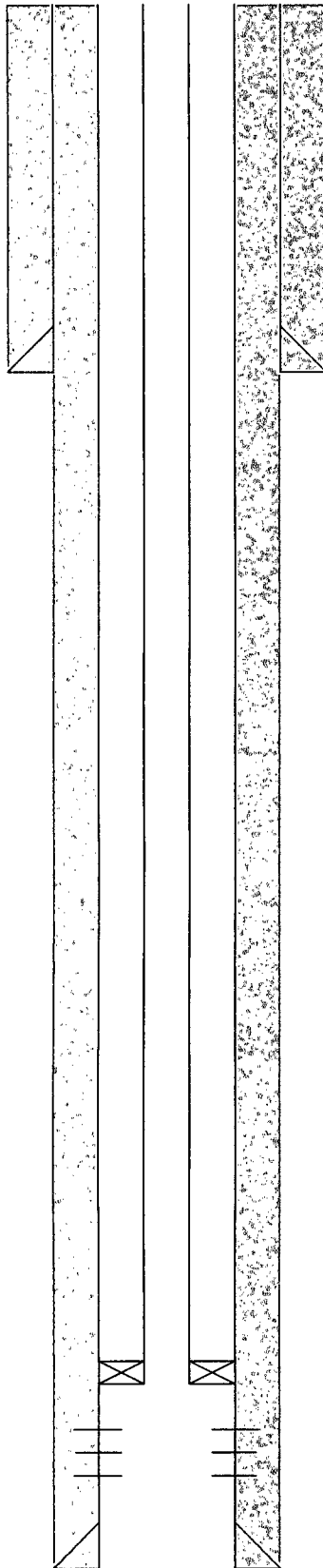
None

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

An examination of OCD records shows that within Sections 13 and 14, Township 22 South, Range 35 East, NMPM, there are no oil or gas zones underlying or overlying the proposed injection zone.

**Melrose Operating Company**  
**Jalmat Field Yates Sand Unit No. 222**  
**API No. 30-025-38875**  
**606' FNL & 1802' FEL (Unit B)**  
**Section 14, T-22 South, R-35 East, NMPM**  
**Lea County, New Mexico**

**Date Drilled: May, 2008**



**12 1/4" Hole; Set 8 5/8" 24# J55 Csg. @ 459'**  
**Cemented w/ 375 Sx. Class C. Cement**  
**circulated to surface.**

**2 3/8" Duo-lined tubing set in a Baker**  
**AD-1 (IPC) Tension Packer @ 3,753'**

**Injection Perforations: 3,853'-4,024'**

**7 7/8" Hole; Set 5 1/2" 15.5# J55 Csg. @ 4,180'.**  
**Cemented w/ 750 Sx. Class C. Cement**  
**circulated to surface.**

**T.D. 4,180'**

INJECTION WELL DATA SHEET

OPERATOR: Melrose Operating Company

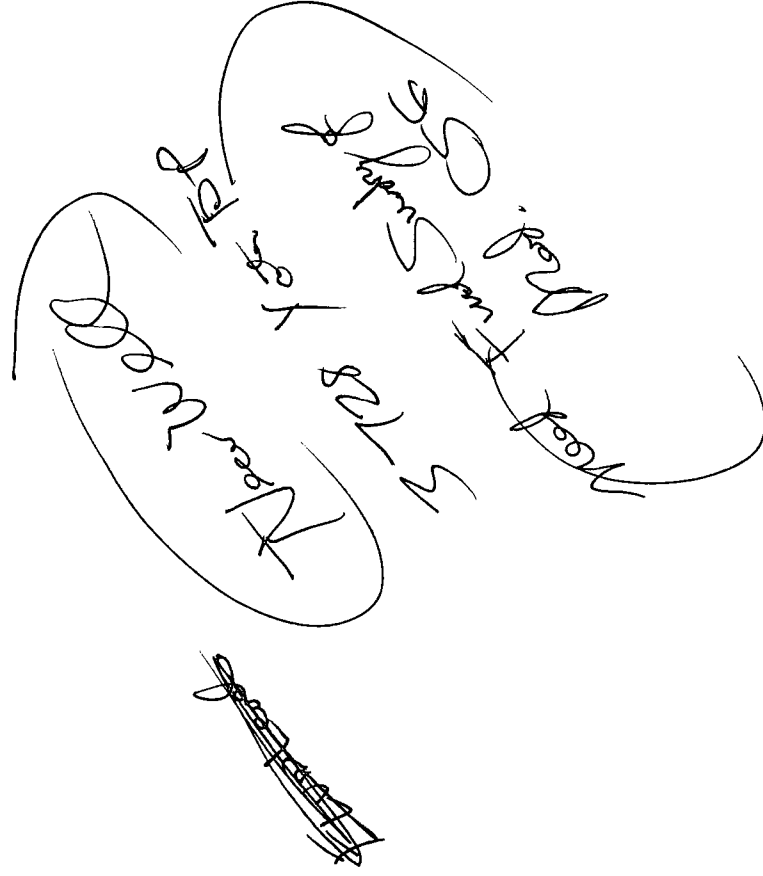
WELL NAME & NUMBER: Jalmat Field Yates Sand Unit No. 250

WELL LOCATION: 625' FNL & 1853' FWL  
FOOTAGE LOCATION

UNIT LETTER C SECTION 13 TOWNSHIP 22 South RANGE 35 East

WELLBORE SCHEMATIC

*See Attached Wellbore Schematic*



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12 1/4" Casing Size: 8 5/8" @ 438'

Cemented with: 375 Sx. or ft<sup>3</sup>

Top of Cement: Surface Method Determined: Circulated

Intermediate Casing  
Hole Size:                      Casing Size:                     

Cemented with:                      or ft<sup>3</sup>

Top of Cement:                      Method Determined:                     

Production Casing

Hole Size: 7 7/8" Casing Size: 5 1/2" @ 4,144'

Cemented with: 750 Sx. or ft<sup>3</sup>

Top of Cement: Surface Method Determined: Circulated

Total Depth: 4,150'

Injection Interval

Perforated Interval - 3,744' - 4,055'

1728 psi  
1150

*Handwritten signatures and initials.*

*Handwritten notes: 3550' of casing, 1500' casing, G. B. V.*

### INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" Lining Material: Duo-Lined Tubing

Type of Packer: Baker AD-1 Tension Packer (IPC)

Packer Setting Depth: 3,644' or within 100' of the uppermost injection perforations.

Other Type of Tubing/Casing Seal (if applicable): None

#### Additional Data

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

If no, for what purpose was the well originally drilled: Well is drilled primarily as an injection well. The well may produced briefly to recover any flush production.

2. Name of the Injection Formation: Tansill-Yates-Seven Rivers

3. Name of Field or Pool (if applicable): Jalmat (Tansill-Yates-Seven Rivers) Oil & Gas Pool (33820)

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.

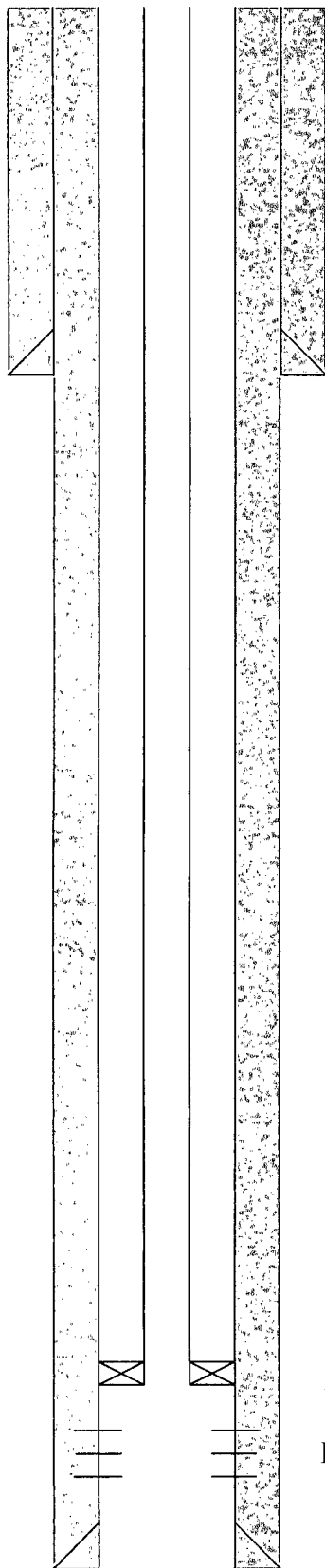
None

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

An examination of OCD records shows that within Sections 13 and 14, Township 22 South, Range 35 East, NMPM, there are no oil or gas zones underlying or overlying the proposed injection zone.

**Melrose Operating Company**  
**Jalmat Field Yates Sand Unit No. 250**  
**API No. 30-025-38925**  
**625' FNL & 1853' FWL (Unit C)**  
**Section 13, T-22 South, R-35 East, NMPM**  
**Lea County, New Mexico**

**Date Drilled: June, 2008**



**12 1/4" Hole; Set 8 5/8" 24# J-55 Csg. @ 438'**  
**Cemented w/ 375 Sx. Class C. Cement**  
**circulated to surface.**

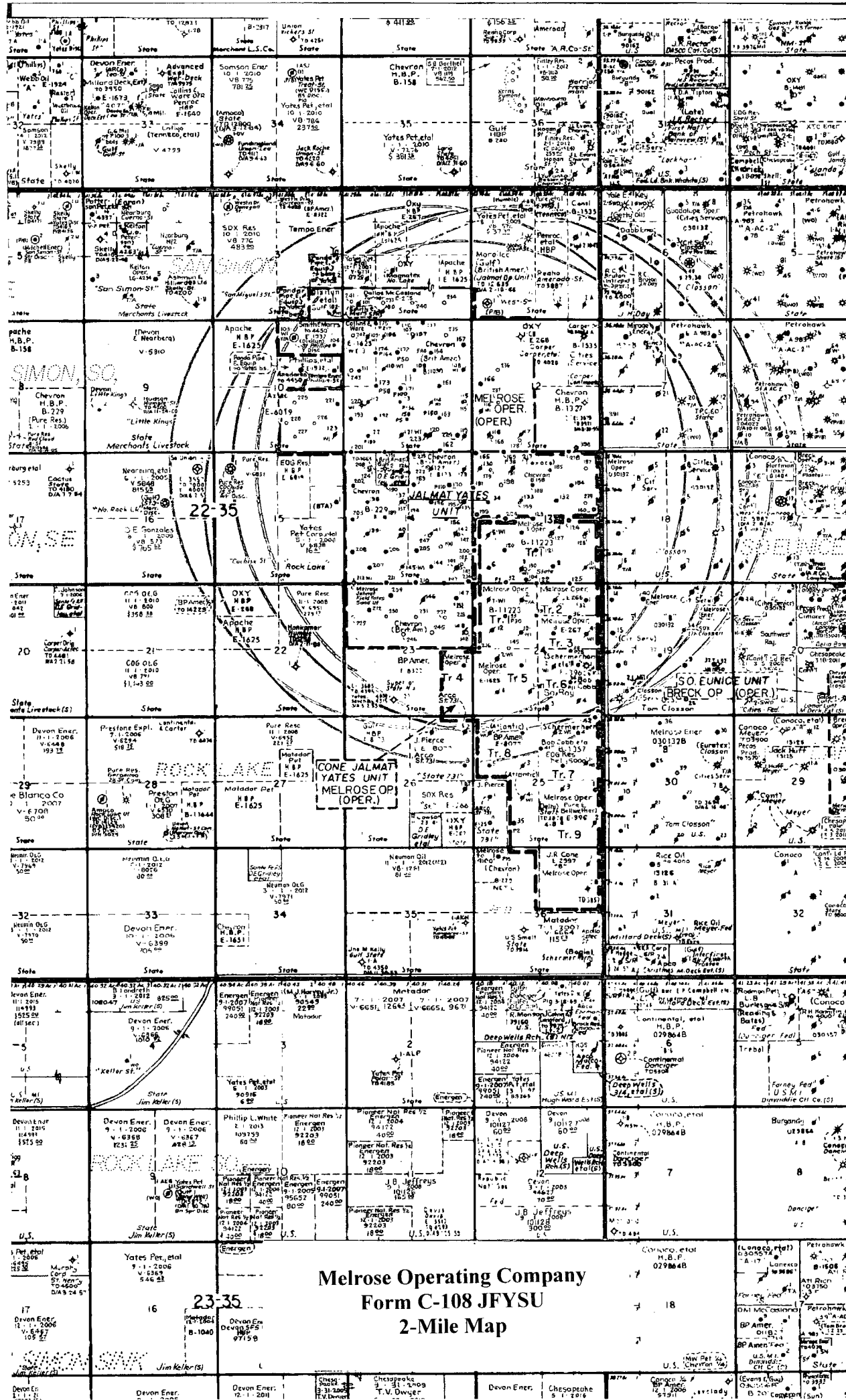
**2 3/8" Duo-lined tubing set in a Baker**  
**AD-1 (IPC) Tension Packer @ 3,644'**

**Injection Perforations: 3,744'-4,055'**

**7 7/8" Hole; Set 5 1/2" 15.5# J-55 Csg. @ 4,144'**  
**Cemented w/ 750 Sx. Class C. Cement**  
**circulated to surface.**

**T.D. - 4,150'**

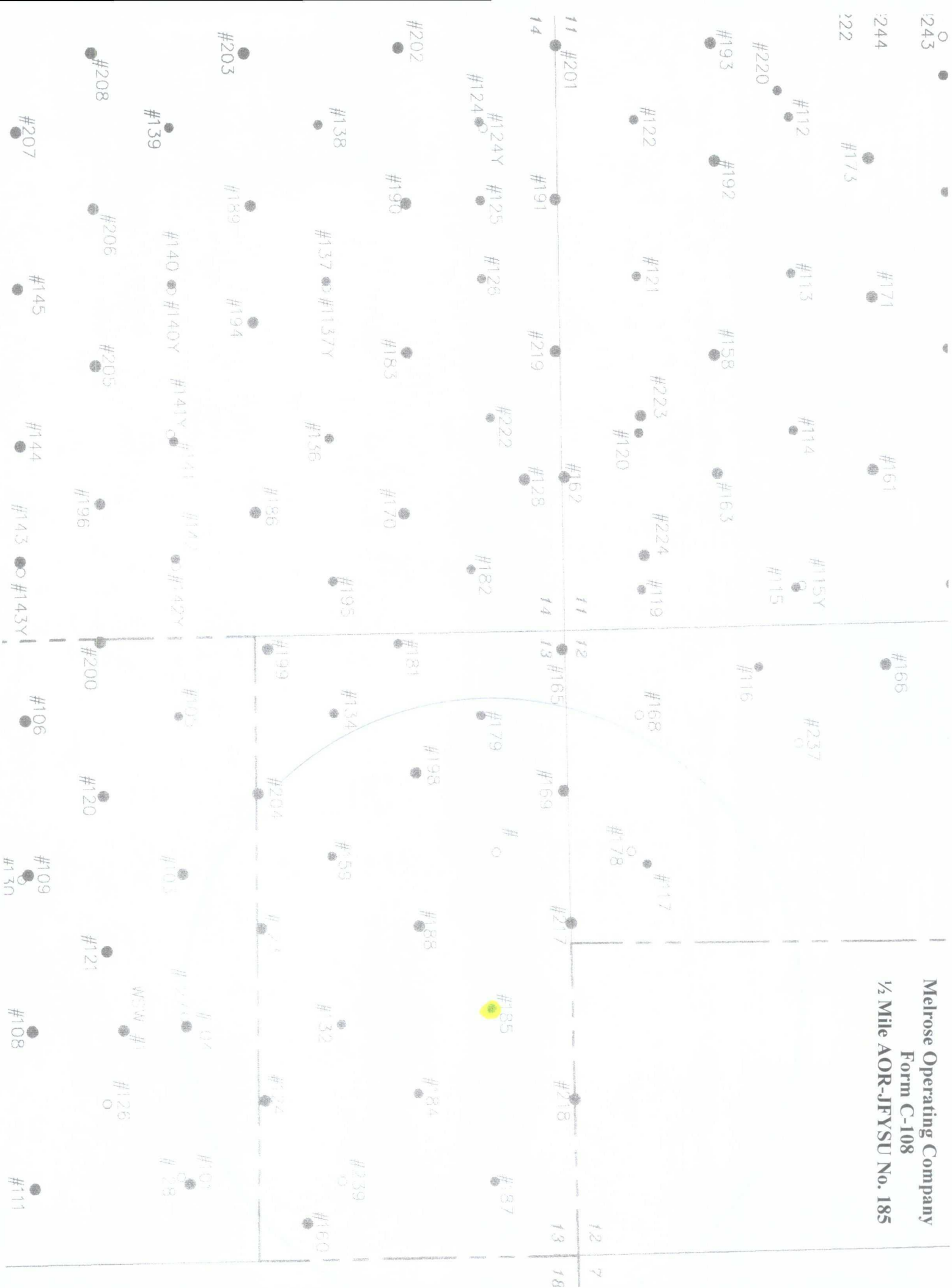
*POOR CNT 3330 TOP of Best CNT CBL*





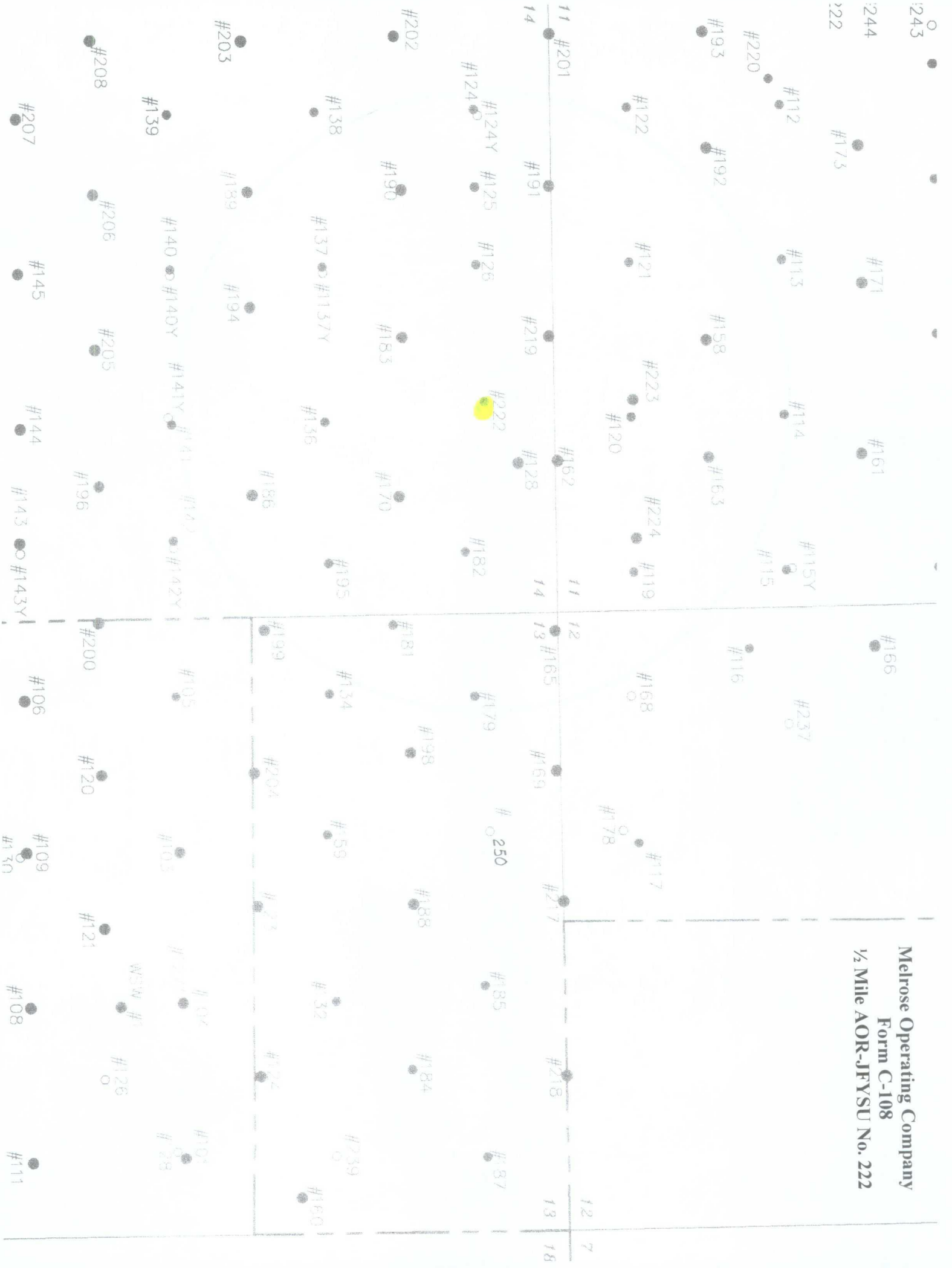


**Melrose Operating Company  
Form C-108  
½ Mile AOR-JFYSU No. 185**

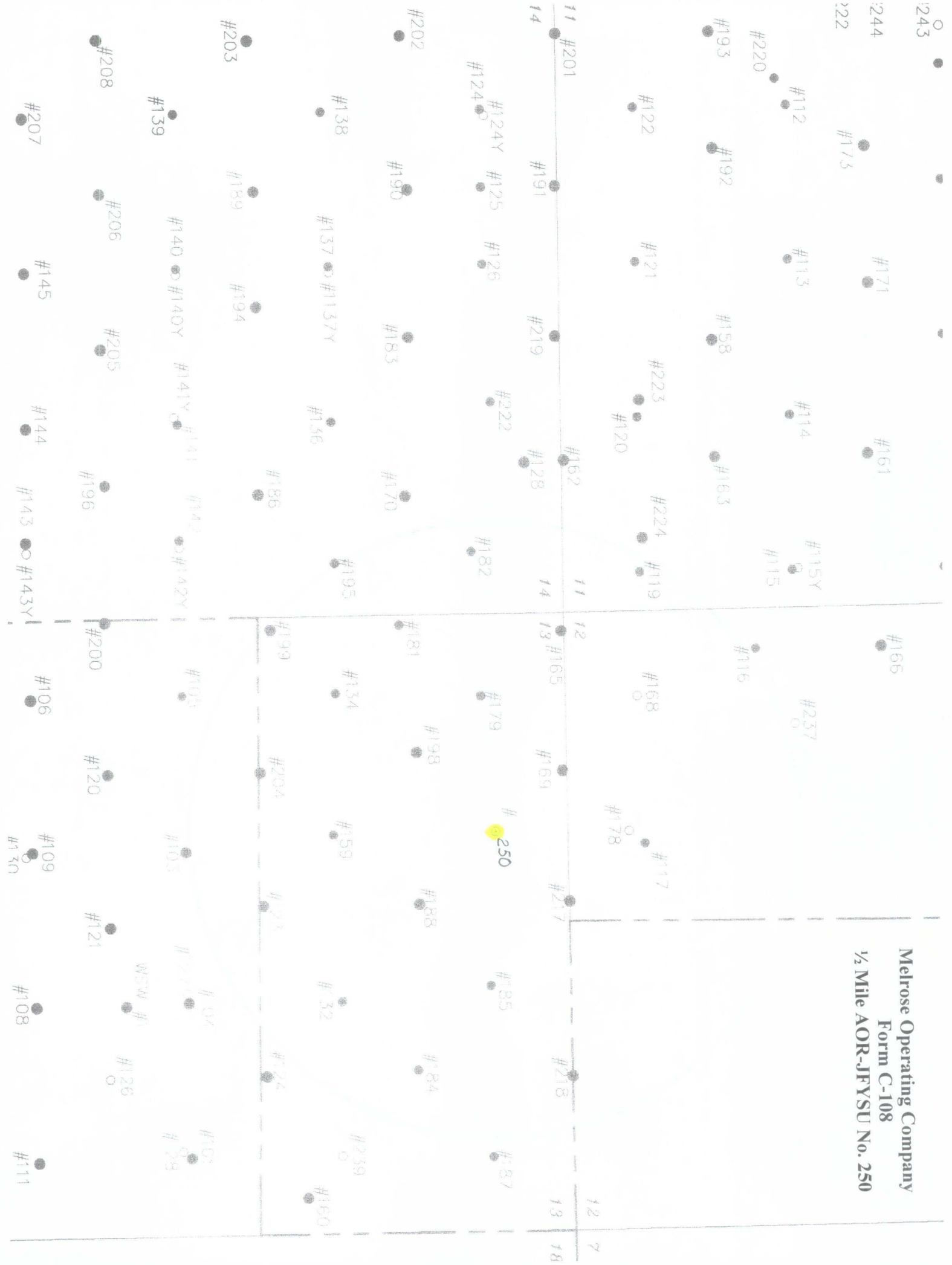




Melrose Operating Company  
Form C-108  
1/2 Mile AOR-JFYSU No. 222



Melrose Operating Company  
Form C-108  
1/2 Mile AOR-JFYSU No. 250



MELROSE OPERATING COMPANY  
AREA OF REVIEW WELL DATA  
JALMAT FIELD YATES SAND UNIT WELLS NO. 179, 185, 195, 222 & 250

API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	FTG. E/W	UNIT	SEC.	TSHP	RNG	DATE	TOTAL DEPTH	HOLE SIZE	CSG SIZE	SET AT	SX. CMT.	CMT. TOP	MTD.	HOLE SIZE	CSG SIZE	SET AT	SX. CMT.	CMT. TOP	MTD.	COMPLETION	REMARKS		
30-025-08617	Gulf Oil Corporation	JFYSU	142	P	PA	1980	S	660	E	I	14	225	35E	Jan-56	3,985'	13 3/4"	8 5/8"	338'	275	Surface	Circ.	7 1/8"	4 1/2"	3,982'	150	3,180'	T.S.	3,862-3,934'	Schematic Attached
30-025-08618	Gulf Oil Corporation	JFYSU	135	I	PA	1980	N	330	E	H	14	225	35E	Mar-56	4,000'	12 1/4"	8 5/8"	333'	280	Surface	Circ.	7 7/8"	4 1/2"	3,999'	150	3,400'	T.S.	3,862-3,950'	Schematic Attached
30-025-08619	Gulf Oil Corporation	JFYSU	129	P	PA	660	N	330	E	A	14	225	35E	May-56	3,970'	12 1/4"	8 5/8"	334'	180	Surface	Circ.	6 3/4"	4 1/2"	3,969'	185	580'	T.S.	3,824-3,945'	Schematic Attached
30-025-08621	Melrose Operating Co.	JFYSU	141	I	PA	1980	S	1650	E	J	14	225	35E	Nov-56	3,972'	12 1/4"	8 5/8"	359'	190	Surface	Circ.	7 7/8"	5 1/2"	3,971'	282	1,190'	T.S.	3,815-3,936'	Schematic Attached
30-025-08623	Melrose Operating Co.	JFYSU	127	I	PA	660	N	1650	E	B	14	225	35E	Jan-57	4,036'	12 1/4"	8 5/8"	345'	250	Surface	Circ.	7 7/8"	4 1/2"	4,035'	380	1,730'	T.S.	3,850-3,992'	Schematic Attached
30-025-08625	Gulf Oil Corporation	JFYSU	137	I	PA	1980	N	2310	W	F	14	225	35E	Jan-58	4,050'	11"	8 5/8"	387'	300	Surface	Circ.	7 7/8"	5 1/2"	4,050'	1000	Surface	Calc.	3,840-4,008'	Schematic Attached
30-025-08684	Gulf Oil Corporation	JFYSU	119	I	PA	660	S	330	E	P	11	225	35E	Jul-56	4,008'	12 1/4"	8 5/8"	374'	200	Surface	Circ.	7 7/8"	4 1/2"	4,007'	Note	1,500'	T.S.	3,812-3,970'	Cmt w/1405 Cu. Ft. Diacel + 100 Sx. Neat
30-025-08605	Smith & Marns, Inc.	CJYPU	1	I	PA	1980	S	1980	E	J	13	225	35E	Jun-55	4,002'	12 1/4"	8 5/8"	288'	200	Surface	Circ.	7 7/8"	5 1/2"	4,002'	900	Surface	Calc.	3,663-3,926'	Csg. Leak 925-1170' Repaired 8/1978
30-025-08612	Gulf Oil Corporation	JFYSU	133	P	PA	1980	N	1980	W	F	13	225	35E	Aug-55	3,895'	11"	8 5/8"	1,760'	800	Surface	Calc.	7 7/8"	5 1/2"	3,850'	400	1,701'	Calc.	3,718-3,762'	Schematic Attached
30-025-08614	Gulf Oil Corporation	JFYSU	130	I	PA	660	N	330	W	D	13	225	35E	Aug-56	3,940'	11"	8 5/8"	1,825'	800	Surface	Circ.	6 3/4"	4 1/2"	3,940'	400	1,791'	Calc.	3,783-3,930'	Schematic Attached
30-025-20295	Gulf Oil Corporation	JFYSU	131	P	PA	660	N	1650	W	C	13	225	35E	Oct-63	3,933'	11"	8 5/8"	154'	100	Surface	Circ.	6 3/4"	4 1/2"	3,932'	430	150'	Well File	3,770-3,864'	Schematic Attached
30-025-21485	Gulf Oil Corporation	JFYSU	125	Supply	PA	660	N	1650	W	C	14	225	35E	May-62	4,663'	24"	20"	33'	5	Surface	Circ.	17 1/2"	13 3/8"	2,130'	1630	Surface	Calc.	O.H. 4,178'-4,663'	Water Supply Well. Schematic Attached
30-025-08585	Gulf Oil Corporation	JFYSU	120	P	PA	660	S	1650	E	O	11	225	35E	Mar-57	4,031'	12 1/4"	8 5/8"	335'	225	Surface	Circ.	7 7/8"	5 1/2"	4,030'	294	1,790'	T.S.	3,910-3,984'	Schematic Attached
30-025-08599	Gulf Oil Corporation	JFYSU	118	P	PA	660	S	660	W	M	12	225	35E	Nov-56	3,962'	11"	8 5/8"	317'	225	Surface	Circ.	7 7/8"	5 1/2"	3,951'	600	754'	Calc.	3,902-3,920'	Schematic Attached
30-025-08600	Gulf Oil Corporation	JFYSU	117	I	PA	660	S	1980	W	N	12	225	35E	Jan-57	3,908'	11"	8 5/8"	292'	225	Surface	Circ.	7 7/8"	5 1/2"	3,907'	600	710'	Calc.	3,740-3,842'	Schematic Attached
30-025-08601	Melrose Operating Co.	JFYSU	116	I	Active	1650	S	330	W	L	12	225	35E	Jul-58	4,030'	11"	8 5/8"	280'	200	Surface	Circ.	7 7/8"	5 1/2"	4,003'	300	2,403'	Calc.	3,808-3,966'	
30-025-08622	Melrose Operating Co.	JFYSU	136	P	Active	1980	N	1650	E	G	14	225	35E	Dec-56	4,005'	12 1/4"	8 5/8"	335'	200	Surface	Circ.	7 7/8"	4 1/2"	4,004'	374	1,580'	T.S.	3,833-3,951'	
30-025-35262	Melrose Operating Co.	JFYSU	170	P	Active	1330	N	990	E	H	14	225	35E	Jan-01	4,100'	12 1/4"	8 5/8"	421'	250	Surface	Circ.	7 7/8"	5 1/2"	4,100'	500	Surface	Circ.	3,831-4,038'	
30-025-36496	Melrose Operating Co.	JFYSU	194	P	Active	2630	N	2630	W	F	14	225	35E	Dec-03	4,200'	12 1/4"	8 5/8"	445'	400	Surface	Circ.	7 7/8"	5 1/2"	4,200'	550	Surface	Circ.	3,844-4,060'	
30-025-36560	Melrose Operating Co.	JFYSU	196	P	Active	1503	S	1292	E	I	14	225	35E	Jun-04	4,170'	12 1/4"	8 5/8"	399'	400	Surface	Circ.	7 7/8"	5 1/2"	4,170'	1100	Surface	Circ.	3,812-3,968'	
30-025-38871	Melrose Operating Co.	JFYSU	182	I	SI	790	N	521	E	A	14	225	35E	Apr-08	4,150'	12 1/4"	8 5/8"	447'	375	Surface	Circ.	7 7/8"	5 1/2"	4,150'	800	Surface	Circ.	3,804-3,958'	Waiting on Injection Permit
30-025-33157	Melrose Operating Co.	JFYSU	162	P	Active	10	S	1310	E	P	11	225	35E	Mar-96	4,078'	12 1/4"	8 5/8"	410'	325	Surface	Circ.	7 7/8"	5 1/2"	4,078'	550	1,123'	Calc.	3,867-4,029'	
30-025-37498	Melrose Operating Co.	JFYSU	224	P	Active	681	S	631	E	P	11	225	35E	Jan-06	4,150'	12 1/4"	8 5/8"	405'	300	Surface	Circ.	7 7/8"	5 1/2"	4,150'	710	Surface	Circ.	3,882-3,972'	
30-025-08604	Melrose Operating Co.	CJYPU	103	P	Active	1980	S	1980	W	K	13	225	35E	May-55	4,040'	12 1/4"	8 5/8"	295'	250	Surface	Circ.	7 7/8"	5 1/2"	4,027'	800	Surface	Calc.	3,722-3,854'	Csg. Leak 960'-1,200' Repaired 11/1976
30-025-08606	Melrose Operating Co.	CJYPU	105	I	SI	1980	S	660	W	L	13	225	35E	Jun-56	4,000'	11"	8 5/8"	284'	100	Surface	Circ.	7 7/8"	5 1/2"	3,988'	925	650'	CBL	3,766-3,906'	Csg Leak 466'-520' Repaired 10/03-02/04
30-025-08611	Melrose Operating Co.	JFYSU	132	P	Active	1980	N	1983	E	G	13	225	35E	Mar-55	3,880'	11"	8 5/8"	1,730'	1200	Surface	Calc.	7 7/8"	5 1/2"	3,654'	300	2,042'	Calc.	3,766-3,906'	
30-025-08613	Melrose Operating Co.	JFYSU	134	P	Active	1980	N	660	W	E	13	225	35E	May-56	3,915'	11"	8 5/8"	1792'	800	Surface	Calc.	7 7/8"	5 1/2"	3,899'	400	1,752'	Calc.	3,748-3,878'	4 1/2" Liner set in 1961. Circulated
30-025-33087	Melrose Operating Co.	JFYSU	160	P	Active	2310	N	330	E	H	13	225	35E	Jul-97	3,750'	12 1/4"	8 5/8"	409'	325	Surface	Circ.	7 7/8"	5 1/2"	3,749'	700	30'	Calc.	3,773-3,875'	4 1/2" Liner set in 1965. No cement data.
30-025-33526	Melrose Operating Co.	JFYSU	165	P	Active	36	N	140	W	D	13	225	35E	Aug-96	4,060'	12 1/4"	8 5/8"	445'	425	Surface	Circ.	7 7/8"	5 1/2"	4,060'	650	569'	Calc.	3,816-4,005'	
30-025-36574	Melrose Operating Co.	JFYSU	198	P	Active	1310	N	1157	W	D	13	225	35E	Jul-04	4,176'	12 1/4"	8 5/8"	397'	300	Surface	Circ.	7 7/8"	5 1/2"	4,131'	1235	Surface	Circ.	3,750-3,938'	
30-025-36862	Melrose Operating Co.	CJYPU	200	P	Active	1310	S	10	W	M	13	225	35E	Nov-04	4,170'	12 1/4"	8 5/8"	400'	325	Surface	Circ.	7 7/8"	5 1/2"	4,168'	690	Surface	Circ.	3,794-3,960'	
30-025-36863	Melrose Operating Co.	CJYPU	204	P	Active	2625	S	1310	W	L	13	225	35E	Nov-04	4,170'	12 1/4"	8 5/8"	399'	300	Surface	Circ.	7 7/8"	5 1/2"	4,168'	690	Surface	Circ.	3,754-3,928'	
30-025-36864	Melrose Operating Co.	JFYSU	199	P	Active	2546	N	94	W	E	13	225	35E	Oct-04	4,150'	12 1/4"	8 5/8"	412'	330	Surface	Circ.	7 7/8"	5 1/2"	4,150'	840	Surface	Circ.	3,834-4,030'	
30-025-37132	Melrose Operating Co.	CJYPU	120	P	Active	1310	S	1310	W	M	13	225	35E	Nov-05	4,150'	12 1/4"	8 5/8"	420'	325	Surface	Circ.	7 7/8"	5 1/2"	4,150'	800	Surface	Calc.	3,768-3,983'	
30-025-37138	Melrose Operating Co.	JFYSU	217	P	Active	10	N	2460	W	C	13	225	35E	Dec-05	4,097'	12 1/4"	8 5/8"	405'	300	Surface	Circ.	7 7/8"	5 1/2"	4,097'	1250	Surface	Calc.	3,716-3,944'	
30-025-37139	Melrose Operating Co.	JFYSU	218	P	Active	10	N	1330	E	B	13	225	35E	Dec-05	4,150'	12 1/4"	8 5/8"	402'	300	Surface	Circ.	7 7/8"	5 1/2"	4,150'	730	Surface	Calc.	3,648-3,934'	
30-025-37225	Melrose Operating Co.	CJYPU	123	P	Active	2630	S	2460	W	K	13	225	35E	Oct-05	4,150'	12 1/4"	8 5/8"	420'	325	Surface	Circ.	7 7/8"	5 1/2"	4,150'	880	Surface	Circ.	3,718-3,940'	
30-025-36152	Melrose Operating Co.	JFYSU	183	P	Active	1310'	N	2376'	E	B	14	225	35E	May-03	4,190'	12 1/4"	8 5/8"	408'	230	Surface	Circ.	7 7/8"	5 1/2"	4,190'	750	Surface	Circ.	3,862-3,980'	
30-025-36153	Melrose Operating Co.	JFYSU	186	P	Active	2630	N	1056'	E	H	14	225	35E	Sep-03	4,127'	12 1/4"	8 5/8"	396'	280	Surface	Circ.	7 7/8"	5 1/2"	4,127'	835	Surface	Circ.	3,830-4,002'	

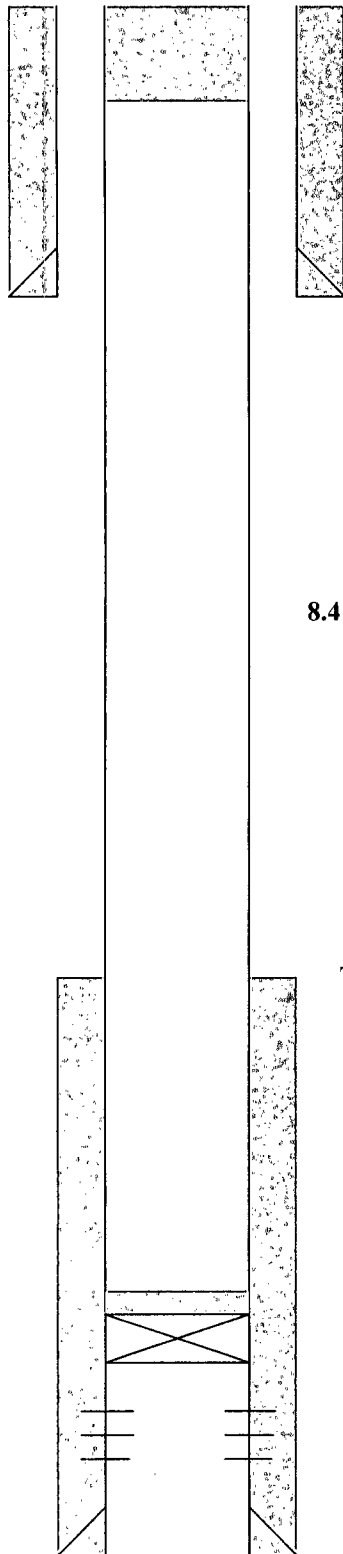
MELROSE OPERATING COMPANY  
AREA OF REVIEW WELL DATA  
JALMAT FIELD YATES SAND UNIT WELLS NO. 179, 185, 195, 222 & 250

API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	FTG. E/W	UNIT	SEC.	TSHP	RNG	DATE DRILLED	TOTAL DEPTH	HOLE SIZE	CSG SIZE	SET AT	SX. CMT.	CMT. TOP	MTD.	HOLE SIZE	CSG SIZE	SET AT	SX. CMT.	CMT. TOP	MTD.	COMPLETION	REMARKS		
30-025-37226	Melrose Operating Co.	CJYPU	124	P	Active	2630	S	1365	E	J	13	225	35E	Oct-05	4,150'	12 1/4"	8 5/8"	425'	325	Surface	Circ.	7 7/8"	5 1/2"	4,150'	850	Surface	Circ.	3,630'-3,734'	
30-025-37580	Melrose Operating Co.	JFYSU	188	P	Active	1310	N	2464	W	C	13	225	35E	Nov-05	4,150'	12 1/4"	8 5/8"	401'	300	Surface	Circ.	7 7/8"	5 1/2"	4,150'	800	Surface	Circ.	3,730'-3,978'	
30-025-37682	Melrose Operating Co.	JFYSU	184	P	Active	1335	N	1388	E	G	13	225	35E	Feb-06	4,215'	12 1/4"	8 5/8"	420'	300	Surface	Circ.	7 7/8"	5 1/2"	4,125'	650	Surface	Circ.	3,638'-3,852'	
30-025-37719	Melrose Operating Co.	JFYSU	181	P	Active	1425	N	90	W	E	13	225	35E	Feb-06	4,125'	12 1/4"	8 5/8"	415'	300	Surface	Circ.	7 7/8"	5 1/2"	4,125'	750	Surface	Circ.	3,786'-3,944'	
30-025-08615	Melrose Operating Co.	JFYSU	126	P	Active	660	N	2310	W	C	14	225	35E	Jan-58	4,089'	12 1/4"	8 5/8"	335'	200	Surface	Circ.	7 7/8"	5 1/2"	4,089'	214	1,300'	T.S.	3,838'-3,960'	5 1/2" Csg. Cmtlw 214 Sx. + 480 Cu. Ft.
30-025-08628	Melrose Operating Co.	JFYSU	124	I	Active	660	N	990	W	D	14	225	35E	Apr-58	4,075'	12 1/4"	8 5/8"	413'	300	Surface	Circ.	7 7/8"	5 1/2"	4,072'	195	Surface	Circ.	3,854'-4,042'	Diacei D.
30-025-36483	Melrose Operating Co.	JFYSU	190	P	Active	1310	N	1650	W	C	14	225	35E	Dec-03	4,220'	12 1/4"	8 5/8"	445'	375	Surface	Circ.	7 7/8"	5 1/2"	4,220'	525	Surface	Circ.	3,846'-4,046'	
30-025-36484	Melrose Operating Co.	JFYSU	191	P	Active	10	N	1650	W	C	14	225	35E	Dec-03	4,200'	12 1/4"	8 5/8"	361'	400	Surface	Circ.	7 7/8"	5 1/2"	4,200'	725	Surface	Circ.	3,856'-4,056'	
30-025-36487	Melrose Operating Co.	JFYSU	189	P	Active	2630	N	1650	W	F	14	225	35E	Jan-04	4,213'	12 1/4"	8 5/8"	450'	400	Surface	Circ.	7 7/8"	5 1/2"	4,204'	725	Surface	Calc.	3,852'-4,074'	CIBP @ 4,020'
30-025-37479	Melrose Operating Co.	JFYSU	219	P	Active	50	N	2360	E	B	14	225	35E	Sep-05	4,175'	12 1/4"	8 5/8"	401'	325	Surface	Circ.	7 7/8"	5 1/2"	4,175'	764	Surface	Circ.	3,764'-4,010'	
30-025-08590	Melrose Operating Co.	JFYSU	114	I	Active	1980	S	1650	E	J	11	225	35E	Mar-58	4,076'	12 1/4"	8 5/8"	335'	225	Surface	Circ.	7 7/8"	5 1/2"	4,076'	100	1100'	T.S.	3,868'-3,965'	5 1/2" Csg. Cmtlw 100 Sx. + 976 Cu. Ft.
30-025-33456	Melrose Operating Co.	JFYSU	163	P	Active	1310	S	1310	E	P	11	225	35E	May-96	4,032'	12 1/4"	8 5/8"	420'	325	Surface	Circ.	7 7/8"	5 1/2"	4,032'	600	835'	Calc.	3,830'-3,974'	Diacei D. Holes in 5 1/2" csg. @ 3,652' & 60-180' repaired in 1998.
30-025-08588	Melrose Operating Co.	JFYSU	121	I	Active	660	S	2310	W	N	11	225	35E	Feb-58	4,052'	12 1/4"	8 5/8"	339'	225	Surface	Circ.	7 7/8"	5 1/2"	4,051'	264	1,775'	T.S.	3,867'-4,013'	5 1/2" Csg. Cmtlw 264 Sx. + 366 Cu. Ft.
30-025-32562	Melrose Operating Co.	JFYSU	168	P	Active	1310	S	2310	E	O	11	225	35E	Jul-94	4,203'	12 1/4"	8 5/8"	480'	250	Surface	Circ.	7 7/8"	5 1/2"	4,200'	935	Surface	Circ.	3,892'-4,062'	Completing
30-025-37492	Melrose Operating Co.	JFYSU	223	P	Active	662	S	1810	E	O	11	225	35E	Jan-06	4,175'	12 1/4"	8 5/8"	405'	300	Surface	Circ.	7 7/8"	5 1/2"	4,175'	810	278'	Calc.	3,854'-3,997'	Proposed Casing Design
30-025-35221	Melrose Operating Co.	JFYSU	169	P	Active	10	N	1330'	W	C	13	225	35E	Feb-01	4,208'	12 1/4"	8 5/8"	403'	275	Surface	Circ.	7 7/8"	5 1/2"	4,208'	900	Surface	Circ.	3,760'-4,112'	Proposed Casing Design
30-025-38673	Melrose Operating Co.	JFYSU	187	P	Active	700	N	640	E	A	13	225	35E	Jun-08	4,000'	12 1/4"	8 5/8"	394'	375	Surface	Circ.	7 7/8"	5 1/2"	3,999'	750	Surface	Circ.		Proposed Casing Design
30-025-38935	Melrose Operating Co.	JFYSU	137	P	NVD	1980	S	2360	W	F	14	225	35E		4,200'	12 1/4"	8 5/8"	350'	375	Surface		7 7/8"	5 1/2"	4,200'	925	Surface		Proposed Casing Design	
30-025-38937	Melrose Operating Co.	JFYSU	142	P	NVD	1980	N	600	E	I	14	225	35E		4,200'	12 1/4"	8 5/8"	350'	375	Surface		7 7/8"	5 1/2"	4,200'	925	Surface		Proposed Casing Design	
30-025-38944	Melrose Operating Co.	JFYSU	247	P	NVD	1950	S	1711	E	J	14	225	35E		4,200'	12 1/4"	8 5/8"	350'	375	Surface		7 7/8"	5 1/2"	4,200'	925	Surface		Proposed Casing Design	
30-025-38668	Melrose Operating Co.	JFYSU	159	P	NVD	2026	N	1960	W	F	13	225	35E		4,200'	12 1/4"	8 5/8"	350'	375	Surface		7 7/8"	5 1/2"	4,200'	925	Surface		Proposed Casing Design	
30-025-38916	Melrose Operating Co.	CJYPU	127	P	NVD	1970	S	2062	E	J	13	225	35E		4,200'	12 1/4"	8 5/8"	350'	375	Surface		7 7/8"	5 1/2"	4,200'	925	Surface		Proposed Casing Design	
30-025-38931	Melrose Operating Co.	JFYSU	239	P	NVD	2000	N	665	E	H	13	225	35E		4,200'	12 1/4"	8 5/8"	350'	375	Surface		7 7/8"	5 1/2"	4,200'	925	Surface		Proposed Casing Design	
30-025-38945	Melrose Operating Co.	JFYSU	248	P	NVD	625	N	1040	W	D	14	225	35E		4,200'	12 1/4"	8 5/8"	350'	375	Surface		7 7/8"	5 1/2"	4,200'	925	Surface		Proposed Casing Design	
30-025-38923	Melrose Operating Co.	JFYSU	168	P	NVD	620	S	723	W	M	12	225	35E		4,200'	12 1/4"	8 5/8"	350'	375	Surface		7 7/8"	5 1/2"	4,200'	925	Surface		Proposed Casing Design	
30-025-38924	Melrose Operating Co.	JFYSU	178	P	NVD	528	S	1869	W	N	12	225	35E		4,200'	12 1/4"	8 5/8"	350'	375	Surface		7 7/8"	5 1/2"	4,200'	925	Surface		Proposed Casing Design	
30-025-33031	SDX Resources, Inc.	JFYSU	159		ND	990	N	2310	E	B	13	225	35E															APD Cancelled January, 2000	
30-025-33153	SDX Resources, Inc.	CJYPU	37		ND	2595	S	1395	E	J	13	225	35E															APD Cancelled January, 2000	
30-025-33154	SDX Resources, Inc.	CJYPU	40		ND	2630	S	1330	W	K	13	225	35E															APD Cancelled January, 2000	
30-025-33680	SDX Resources, Inc.	JFYSU	168		ND	1650	N	330	E	H	13	225	35E															APD Cancelled January, 2000	
30-025-35214	Melrose Operating Co.	JFYSU	1598		ND	990	N	2310	E	B	13	225	35E															APD Cancelled June, 2002	
30-025-35432	Melrose Operating Co.	JFYSU	168H		ND	1650	N	330	E	H	13	225	35E															APD Cancelled June, 2002	
30-025-35432	Melrose Operating Co.	JFYSU	187A		ND	1310	N	990	E	A	13	225	35E															APD Cancelled June, 2002	
30-025-35433	Melrose Operating Co.	JFYSU	188		ND	1311	N	1840	W	C	13	225	35E															APD Cancelled June, 2002	
30-025-37688	Melrose Operating Co.	JFYSU	1598		ND	2026	N	1960	W	F	13	225	35E															APD Cancelled July, 2006	
30-025-37693	Melrose Operating Co.	JFYSU	185B		ND	692	N	2089	E	B	13	225	35E															APD Cancelled July, 2006	
30-025-35428	Melrose Operating Co.	JFYSU	186		ND	2630	N	1056	E	H	14	225	35E															APD Cancelled June, 2002	
30-025-35431	Melrose Operating Co.	JFYSU	183		ND	1310	N	2376	E	B	14	225	35E															APD Cancelled June, 2002	
30-025-38870	Melrose Operating Co.	JFYSU	180		ND	624	N	1853	W	C	13	225	35E															APD Cancelled June, 2008	
30-025-36154	Melrose Operating Co.	JFYSU	187A		ND	1310'	N	990'	E	A	13	225	35E															APD Cancelled May, 2004	
30-025-36155	Melrose Operating Co.	JFYSU	188		ND	1310'	N	2464'	W	C	13	225	35E															APD Cancelled May, 2004	
30-025-37689	Melrose Operating Co.	JFYSU	169M		ND	620	S	723	W	M	12	225	35E															APD Cancelled July, 2006	

NYD-Not Yet Drilled.

ND-Never Drilled

**Gulf Oil Corporation**  
**Jalmat Field Yates Sand Unit No. 142**  
**API No. 30-025-08617**  
**1980' FSL & 660' FEL, Unit I**  
**Section 14, T-22S, R-35E**



5 Sx. 60' to surface

13 3/4" Hole; 9 5/8" Csg. Set @  
338'. Cemented w/275 Sx.  
Cement circulated to surface.

**Drilled: 1/56**  
**Plugged: 2/72**

8.4 # Mud placed between plugs

TOC @ 3,180' by T.S.

CIBP @ 3,803' w/ 10  
Sx. Cement on top

Perforations: 3,862'-3,882'  
3,912'-3,934'

7 1/8" Hole; 4 1/2" Csg. Set @ 3982' Cemented  
w/ 150 Sx. TOC @ 3,180 by T.S.

**T.D. 3,985'**



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LAND OFFICE	
OPERATOR	

# NEW MEXICO OIL CONSERVATION COMMISSION

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

5a. Indicate Type of Lease State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. E-8173
7. Unit Agreement Name Jalmat Field Yates Sand Unit
8. Farm or Lease Name
9. Well No. 142
10. Field and Pool, or Wildcat Jalmat
12. County Lea

## SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. Unit Agreement Name Jalmat Field Yates Sand Unit
2. Name of Operator Gulf Oil Corporation	8. Farm or Lease Name
3. Address of Operator Box 670, Hobbs, New Mexico 88240	9. Well No. 142
4. Location of Well UNIT LETTER I 1980 FEET FROM THE South LINE AND 660 FEET FROM THE East LINE, SECTION 14 TOWNSHIP 22-S RANGE 35-E NMPM.	10. Field and Pool, or Wildcat Jalmat
15. Elevation (Show whether DF, RT, GR, etc.) 3577' GL	12. County Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data  
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	
Plugged and abandoned			

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1703.

3948' PB, 3985' TD.

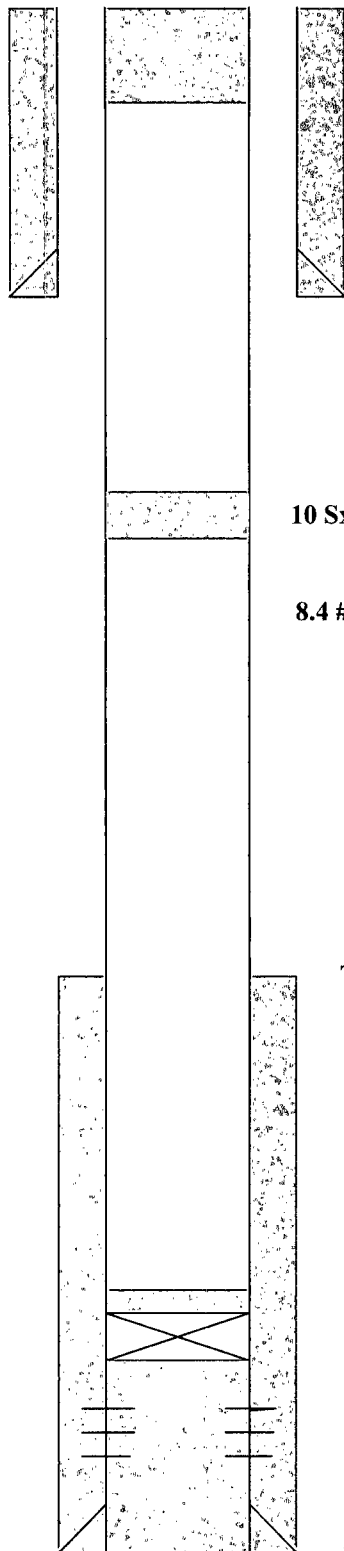
Ran CI BP and set at 3803'. Capped BP with 10 sacks of class C cement. Loaded hole with 56 barrels of water containing 10 sacks of Bentonite, mud weight 8.4#. Spotted 5 sack cement plug from 60' to surface. Installed dry hole marker and cleaned location. Plugged and abandoned February 14, 1972.

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

SIGNED E. J. Kallay TITLE Area Engineer DATE February 14, 1972  
APPROVED BY Nathan E. Clegg OIL & GAS INSPECTOR DATE MAR 8 1972  
CONDITIONS OF APPROVAL, IF ANY:



**Gulf Oil Corporation**  
**Jalmat Field Yates Sand Unit No. 135**  
**API No. 30-025-08618**  
**1980' FNL & 330' FEL, Unit H**  
**Section 14, T-22S, R-35E**



**Cement Plug- 50' to surface**

**12 1/4" Hole; 8 5/8" Csg. Set @  
333'. Cemented w/280 Sx.  
Cement circulated to surface.**

**10 Sx. 1850'-2000'**

**8.4 # Mud placed between plugs**

**TOC @ 3,400' by T.S.**

**5 Sx. 3,590'-3,515'  
Set Cement Retainer  
@ 3,590' Squeeze  
below retainer w/45 Sx.**

**Perforations: 3,862'-3,950'**

**7 7/8" Hole; 4 1/2" Csg. Set @ 3999' Cemented  
w/ 150 Sx. TOC @ 3,400 by T.S.**

**T.D. 4,000'**

**Drilled: 3/56**  
**Plugged: 6/74**

**Well was drilled as a producing well,  
and was converted to an injection well  
in 1963.**

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OPERATOR	

# NEW MEXICO OIL CONSERVATION COMMISSION

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

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL ☐ GAS WELL ☐ OTHER- Water Injection Well

2. Name of Operator Gulf Oil Corporation

3. Address of Operator Box 670, Hobbs, New Mexico 88240

4. Location of Well  
UNIT LETTER H 1980 FEET FROM THE North LINE AND 330 FEET FROM  
THE East LINE, SECTION 14 TOWNSHIP 22-S RANGE 35-E NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)  
3589' GL

5a. Indicate Type of Lease  
State ☒ Fee ☐

5. State Oil & Gas Lease No.  
E-8173

7. Unit Agreement Name  
Field Yates Sand U-1r

8. Farm or Lease Name  
Jalmar

9. Well No.  
135

10. Field and Pool, or Wildcat  
Jalmar

12. County  
Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data  
NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐  
TEMPORARILY ABANDON ☐  
PULL OR ALTER CASING ☐  
OTHER ☐

PLUG AND ABANDON ☐  
CHANGE PLANS ☐  
OTHER ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐  
COMMENCE DRILLING OPS. ☐  
CASING TEST AND CEMENT JOB ☐  
OTHER ☐  
Plugged and abandoned.

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1703.

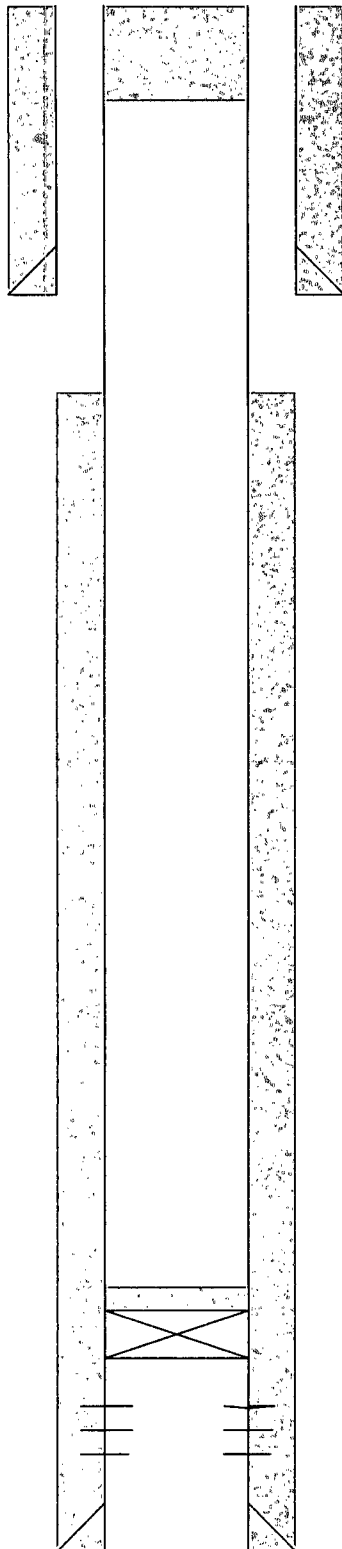
4000' TD, 3975'PB.

Pulled injection equipment. Set cement retainer at 3590'. Loaded casing with water. Squeezed below retainer with 45 sacks of cement. Spotted 5 sack cement plug on top of retainer. Loaded hole with gel water. Spotted 10 sack cement plug from 2000' to 1850', across salt. Spotted 10 sack cement plug from 100' to surface. Installed dry hole marker and cleaned location. Plugged and abandoned June 18, 1974.

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

SIGNED B. J. Barbary TITLE Area Engineer DATE June 18, 1974  
APPROVED BY John W. Pringle TITLE Geologist DATE June 18, 1974  
CONDITION OF APPROVAL, IF ANY:

**Gulf Oil Corporation**  
**Jalmat Field Yates Sand Unit No. 129**  
**API No. 30-025-08619**  
**660' FNL & 330' FEL, Unit A**  
**Section 14, T-22S, R-35E**



**Cement Plug- 60' to surface**

**12 1/4" Hole; 8 5/8" Csg. Set @  
334'. Cemented w/180 Sx.  
Cement circulated to surface.**

**TOC @ 580' by T.S.**

**8.6 # Mud placed between plugs**

**Set CIBP @ 3,773' w/  
10 Sx. cement on top.**

**Perforations: 3,824'-3,945'**

**6 3/4" Hole; 4 1/2" Csg. Set @ 3,969'  
Cemented w/ 185 Sx. pre-mixed w/312 Cu. Ft.  
of Diacel. TOC @ 580' by T.S.**

**T.D. 3,970'**

**Drilled: 5/56**  
**Plugged: 2/72**

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LAND OFFICE	
OPERATOR	

# NEW MEXICO OIL CONSERVATION COMMISSION

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

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	
E-8173	

## SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- <input type="checkbox"/>	7. Unit Agreement Name
2. Name of Operator	Jalmar Field Yates Sand Unit
3. Address of Operator	8. Farm or Lease Name
Box 670, Hobbs, New Mexico 88240	9. Well No.
4. Location of Well	10. Field and Pool, or Wildcat
UNIT LETTER <u>A</u> , <u>660m</u> FEET FROM THE <u>North</u> LINE AND <u>330</u> FEET FROM	Jalmar
THE <u>East</u> LINE, SECTION <u>14</u> TOWNSHIP <u>22-S</u> RANGE <u>35-E</u> NMPM.	
15. Elevation (Show whether DF, RT, GR, etc.)	12. County
3594' GL	Lea

16.

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

#### NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

TEMPORARILY ABANDON ☐

PULL OR ALTER CASING ☐

OTHER ☐

PLUG AND ABANDON ☐

CHANGE PLANS ☐

OTHER ☐

#### SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

COMMENCE DRILLING OPNS. ☐

CASING TEST AND CEMENT JOBS ☐

OTHER ☐

ALTERING CASING ☐

PLUG AND ABANDONMENT ☐

Plugged and Abandoned.

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1703.

3970' TD, 3951' PB

Pulled rods, pump and tubing. Ran CI BP and set at 3773'. Loaded hole with 8.5# mud. Spotted 10 sack cement on top of BP. Spotted 5 sack cement plug from 60' to surface. Installed dry hole marker and cleaned location. Plugged and abandoned February 14, 1972.

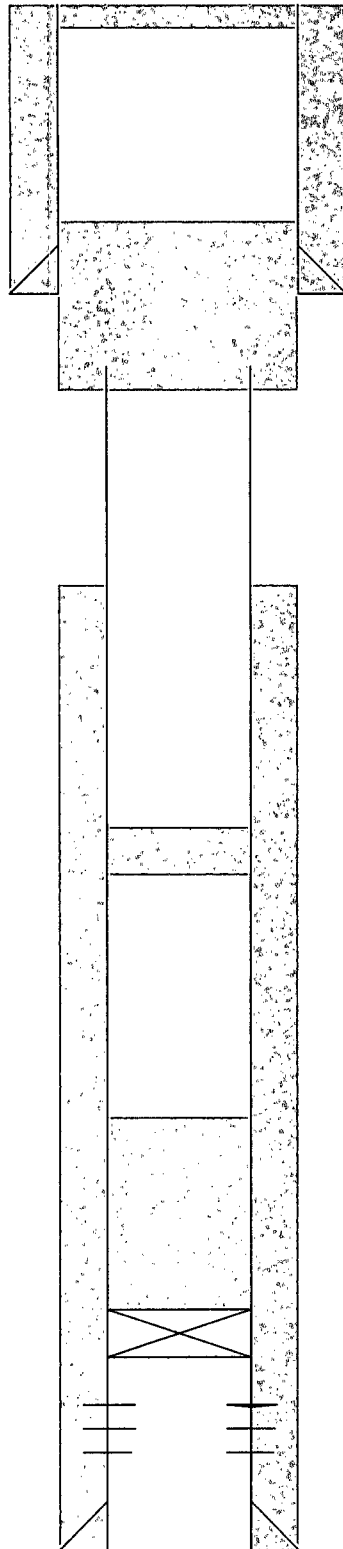
18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED T. J. Kalliger TITLE Area Engineer DATE February 14, 1972

APPROVED BY Nathan E. Olegg TITLE OIL & GAS INSPECTOR DATE MAR 8 1972

CONDITIONS OF APPROVAL, IF ANY:

**Melrose Operating Company  
Jalmat Field Yates Sand Unit No. 141  
API No. 30-025-08621  
1980' FSL & 1650' FEL, Unit J  
Section 14, T-22S, R-35E**



**10 Sx. Surface plug**

**12 1/4" Hole; 8 5/8" Csg. Set @  
359'. Cemented w/190 Sx.  
Cement circulated to surface.**

**4 1/2" Csg cut @ 417'.  
Spot 50 Sx. 288'-467'**

**TOC @ 1190' by T.S.**

**25 Sx. 1900'**

**PA'd 7/2000. RIH & tag plug  
@ 3,038'**

**10 # Mud placed between plugs**

**1985. Set CIBP @ 3,779'.  
Spot 75 Sx. cement from  
3,038'-3,779'. Well TA'd**

**Perforations: 3,815'-3,936'**

**7 7/8" Hole; 5 1/2" Csg. Set @ 3,971'  
Cemented w/ 282 Sx. TOC @ 1,190' by T.S.**

**T.D. 3,972'**

**Drilled: 11/56  
Plugged: 5/00**

**DISTRICT I**  
P.O. Box 1980, Hobbs, NM 88240

**DISTRICT II**  
P.O. Drawer DD, Artesia, NM 88210

**DISTRICT III**  
1000 Rio Brazos Rd., Aztec, NM 87410

## OIL CONSERVATION DIVISION

2040 Pacheco St.  
Santa Fe, NM 87505

WELL API NO. 30-025-08621
Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
State Oil & Gas Lease No. E8322

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		Lease Name or Unit Agreement Name Jalmat Field Yates Sand Unit
Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER WIW	Name of Operator Melrose Operating Co.	Well No. 141
Address of Operator PO Box 5061, Midland, TX 79704		Pool name or Wildcat Jalmat TN-YT-7R
Well Location Unit Letter <u>J</u> : <u>1980</u> Feet From The <u>South</u> Line and <u>1650</u> Feet From The <u>East</u> Line Section <u>14</u> Township <u>22S</u> Range <u>35E</u> NMPM <u>Lea</u> County		
Elevation (Show whether DF, RKB, RT, GR, etc.) 3581' GR		

11 Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

### NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐  
OTHER: ☐

### SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ PLUG AND ANBANDONMENT ☒  
CASING TEST AND CEMENT JOB ☐  
OTHER: ☐

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

5/16/00 -  
Notify OCD. MI & RU. ND wellhead. NU BOP. Close in well.

5/17/00 -  
RIH w/60 jts workstring. Close in well. Wind to high.

5/18/00 -  
RIH w/tbg. Tag plug @ 3038'. Circ 10# mud. POH & spot 25 sx @ 1900'. POH. Stretch on csg shows 430' free pipe. Cut csg @ 417'. LD 14 jts. RIH & spot 50 sx @ 467'. POH & WOC. RIH & tag cmt @ 288'. POH & spot 10 sx @ surf. Cut off wellhead. Level pit & cellar.

Install dry hole marker.

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

SIGNATURE Bonnie Atwater TITLE Regulatory Tech DATE 07-20-00

TYPE OR PRINT NAME Bonnie Atwater TELEPHONE NO. 915/685-1761

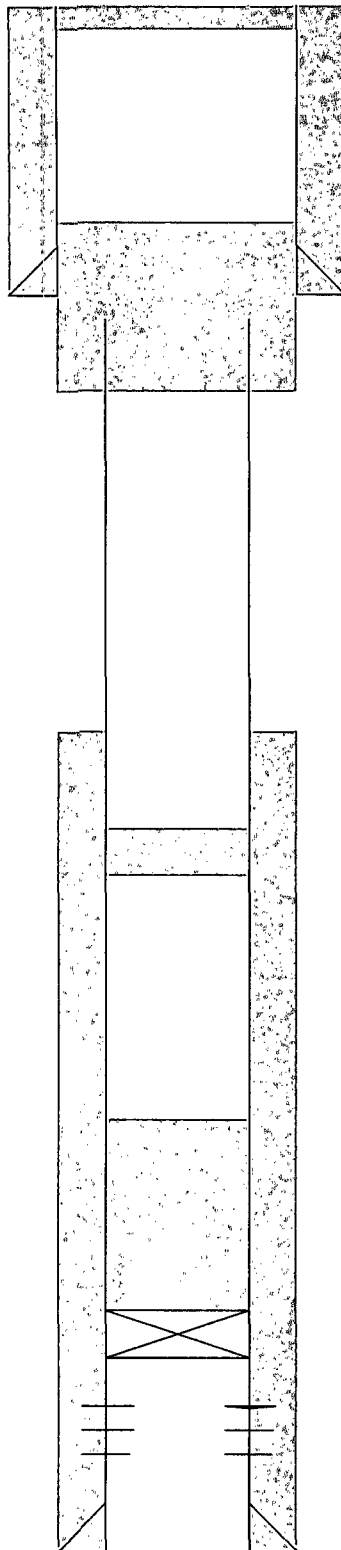
(This space for State Use)

APPROVED BY Johnny Robinson TITLE COMPLIANCE OFFICER DATE 7/20/00

CONDITIONS OF APPROVAL, IF ANY:

GWW

**Melrose Operating Company  
Jalmat Field Yates Sand Unit No. 127  
API No. 30-025-08623  
660' FNL & 1650' FEL, Unit B  
Section 14, T-22S, R-35E**



**10 Sx. Surface plug**

**12 1/4" Hole; 8 5/8" Csg. Set @  
345'. Cemented w/250 Sx.  
Cement circulated to surface.**

**4 1/2" Csg cut @ 386'.  
Spot 50 Sx. 224'-436'**

**TOC @ 1730' by T.S.**

**25 Sx. @ 2,030'  
PA'd 7/2000. RIH & tag plug  
@ 3,060'**

**10 # Mud placed between plugs**

**1985. Set CIBP @ 3,800'.  
Spot 50 Sx. cement from  
3,060'-3,800'. Well TA'd**

**Perforations: 3,850'-3,992'**

**7 7/8" Hole; 4 1/2" Csg. Set @ 4,035'  
Cemented w/ 380 Sx. TOC @ 1,730' by T.S.**

**T.D. 4,036'**

**Drilled: 11/57  
Plugged: 5/00**

**Note: Intent to repair casing leaks below  
3,500' was filed by Chevron U.S.A. in July,  
1985. Well file contained no subsequent  
report showing that this work was ever done.**

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

## OIL CONSERVATION DIVISION

2040 Pacheco St.  
Santa Fe, NM 87505

WELL API NO.

30-025-08623

Indicate Type of Lease

STATE ☒

FEE ☐

State Oil & Gas Lease No.

E8322

Lease Name or Unit Agreement Name

Jalmat Field Yates Sand Unit

Type of Well:

OIL

WELL ☐

GAS

WELL ☐

OTHER ☐ WIW

Name of Operator

Melrose Operating Co.

Well No.

127

Address of Operator

PO Box 5061, Midland, TX 79704

Pool name or Wildcat

Jalmat TN-YT-7R

Well Location

Unit Letter B : 660 Feet From The North Line and 1650 Feet From The East Line

Section 14 Township 22S Range 35E NMPM Lea County

Elevation (Show whether DF, RKB, RT, GR, etc.)

3592' GR

11 Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

### NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: ☐

### SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐

PLUG AND ANBANDONMENT ☒

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

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

5/19/00 -

Notify OCD. MI & RU. ND wellhead. NU BOP. Close in well.

5/22/00

RIH w/workstring & tag CIBP @ 3060'. Circ 10# mud. POH & spot 25 sx @ 2030'. POH. Stretch on csg shows 450' free pipe. Cut csg @ 386'. LD csg.

5/23/00

RIH & spot 55 sx @ 436'. POH & WOC. RIH & tag cmt @ 224'. POH & spot 10 sx @ surf. Cut off wellhead. Level pit & cellar.

Install dry hole marker.

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

SIGNATURE

*Bonnie Atwater*

TITLE Regulatory Tech

DATE 07-20-00

TYPE OR PRINT NAME Bonnie Atwater

TELEPHONE NO. 915/685-1761

(This space for State Use)

APPROVED BY

*Johnny Robinson*

COMPLIANCE OFFICER

DATE

CONDITIONS OF APPROVAL, IF ANY

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## IL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-103  
Revised 10-1-7

3a. Indicate Type of Lease	State <input checked="" type="checkbox"/>	Fed <input type="checkbox"/>
3. State Oil & Gas Lease No.	E-8173	

## SUNDARY NOTICES AND REPORTS ON WELLS

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

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER: <u>Water Injection</u>	7. Unit, Agreement, Lease, or Lien No. <u>Palmar Field</u> <u>Palmar Field Unit</u>
2. Name of Operator <u>Chevron U.S.A. Inc.</u>	8. Term of Lease, Agree.
3. Address of Operator <u>P. O. Box 670, Hobbs, NM 88240</u>	9. Well No. <u>127</u>
4. Location of Well UNIT LETTER <u>B</u> <u>660</u> FEET FROM THE <u>North</u> LINE AND <u>1650</u> FEET FROM THE <u>East</u> LINE, SECTION <u>14</u> TOWNSHIP <u>22S</u> RANGE <u>35E</u> N.M.P.M.	10. Field and Pool, or Wildcat <u>Palmar</u>
15. Elevation (Show whether DF, RT, GR, etc.)	12. County <u>Lea</u>

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK	<input type="checkbox"/>
TEMPORARILY ABANDON	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>

PLUG AND ABANDON	<input type="checkbox"/>
CHANGE PLANS	<input type="checkbox"/>
OTHER	<input type="checkbox"/>

REMEDIAL WORK	<input checked="" type="checkbox"/>
COMMENCE DRILLING OPNS.	<input type="checkbox"/>
CASING TEST AND CEMENT JOB	<input type="checkbox"/>
OTHER	<input type="checkbox"/>

ALTERING CASING	<input type="checkbox"/>
PLUG AND ABANDONMENT	<input type="checkbox"/>

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

Set RBP @ 3540'. Pmp drn thg. press 3500 psi - bled off 300 psi in 7 min. POH w/ RBP. Set CIBP @ 3800'. Spot 50 qt CC" Press 600 psi. TA 7-14-85

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

Signed R.D. Patre TITLE DIV. PETR. ENGINEER DATE 7-23-85

ORIGINAL SIGNED BY LEADY SECTION  
DISTRICT SUPERVISORDATE JUL 25 1985

CONDITIONS OF APPROVAL, IF ANY:

E-8173 7/25/85

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LAND OFFICE	
OPERATOR	

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

Form C-103  
Revised 12-1-7

3a. Indicate Type of Lease  
State ☒ Fee ☐

3. State Oil & Gas Lease No.  
**E-8173**

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. ☐ OIL WELL ☐ GAS WELL ☒ OTHER: **Water Injection**

2. Name of Operator  
**Chevron U.S.A. Inc.**

3. Address of Operator  
**P. O. Box 670, Hobbs, NM 88240**

4. Location of Well  
UNIT LETTER **B** **660** FEET FROM THE **North** LINE AND **1650** FEET FROM  
THE **East** LINE, SECTION **14** TOWNSHIP **22S** RANGE **35E** NEPM.

5. Elevation (Show whether DF, KT, GR, etc.)

6. Well No.  
**127**

7. Field and Pool, or Wildcat  
**Jalmat**

8. Name of Lease (same)

9. County  
**Lea**

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

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
PERFORM REMEDIAL WORK <input checked="" type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPER. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input type="checkbox"/>	OTHER <input type="checkbox"/>

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

*Set RBP @ 3796' test 1000 psi. Cap RBP w/10' sand. Est inj rate + press into leaks. Set cmt ret @ 3530' sq leaks w/100 sl cmt, obtain sq of 500 psi above pump-in press. Cap ret w/10' cmt. Est Circ. Pump cmt until circ to surf. Sq to 500 psi. Drl cmt + test sq. Drl ret + cmt to below bottom leaks. Return to injection.*

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

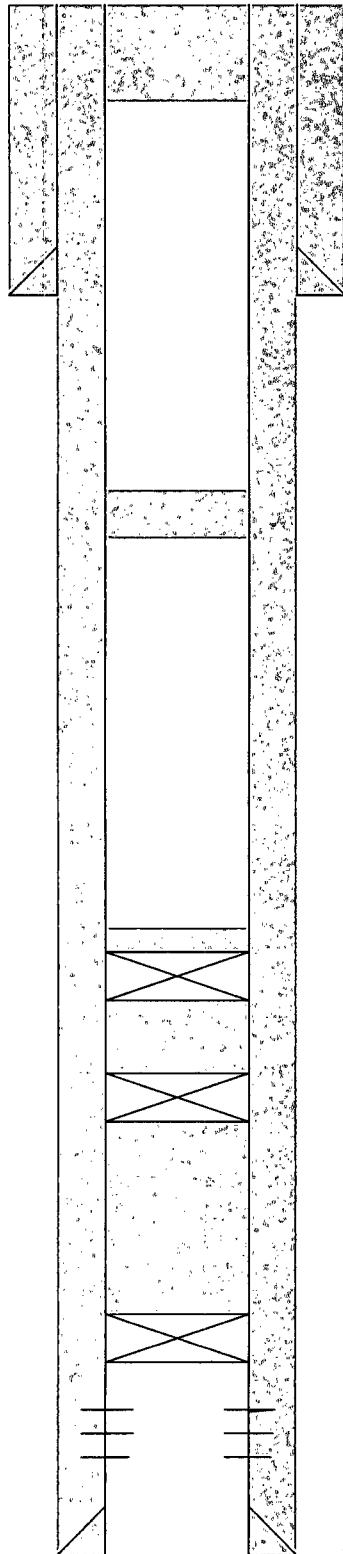
*[Signature]* **AREA ENGINEER** **7-12-85**

ORIGINAL SIGNED BY: **LAND OFFICE**

CONDITIONS OF APPROVAL, IF ANY:

**JUL 16 1985**

**Gulf Oil Corporation**  
**Jalmat Field Yates Sand Unit No. 137**  
**API No. 30-025-08625**  
**1980' FNL & 2310' FWL, Unit F**  
**Section 14, T-22S, R-35E**



**Cement Plug- 50' to surface**

**11" Hole; 8 5/8" Csg. Set @ 387'.  
 Cemented w/300 Sx.  
 Cement circulated to surface.**

**15 Sx. 1,950'-2,050'**

**8.4 # Mud placed between plugs**

**Set Cement Retainer @ 3,446' Squeeze casing leak @  
 3,500' w/50 Sx. Placed 5 Sx. on top of retainer.**

**Set Cement Retainer @ 3,534' Squeeze casing  
 leak below retainer w/100 Sx. Placed 35' of  
 cement on top of retainer**

**Set CIBP @ 3,800' w/35'  
 of cement on top**

**Perforations: 3,840'-4,008'**

**7 7/8" Hole; 5 1/2" Csg. Set @ 4,050' Cemented  
 w/ 1000 Sx. TOC @ Surface by Calc.**

**T.D. 4,050'**

**Drilled: 1/58**  
**Plugged: 10/75**

**Well was drilled as a producing well,  
 and was converted to an injection well  
 in 1962.**

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OPERATOR	

# NEW MEXICO OIL CONSERVATION COMMISSION

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

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	
B-229	

## SUNDRY NOTICES AND REPORTS ON WELLS

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

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- <b>Water Injection Well</b>		7. Unit Agreement Name
		<b>Jalmat Field Yates Sand Unit</b>
2. Name of Operator		8. Farm or Lease Name
<b>Gulf Oil Corporation</b>		
3. Address of Operator		9. Well No.
<b>Box 670, Hobbs, New Mexico 88240</b>		<b>137</b>
4. Location of Well		10. Field and Pool, or Wildcat
UNIT LETTER <b>F</b> , <b>1980</b> FEET FROM THE <b>North</b> LINE AND <b>2310</b> FEET FROM		<b>Jalmat</b>
THE <b>West</b> LINE, SECTION <b>14</b> TOWNSHIP <b>22-S</b> RANGE <b>35-E</b> NMPM.		
15. Elevation (Show whether DF, RT, GR, etc.)		12. County
<b>3581' GL</b>		<b>Lea</b>

16.

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

### NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

TEMPORARILY ABANDON ☐

PULL OR ALTER CASING ☐

PLUG AND ABANDON ☐

CHANGE PLANS ☐

OTHER ☐

### SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

COMMENCE DRILLING OPNS. ☐

CASING TEST AND CEMENT JOB ☐

OTHER ☐

ALTERING CASING ☐

PLUG AND ABANDONMENT ☐

**Plugged and abandoned**

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

4050' TD.

Pulled injection equipment. Set BP at 3800' and capped with 5 sacks of cement to 3765', abandoning Jalmat perforations 3882' to 4000'. Set cement retainer at 3534' and squeezed casing leak below retainer with 100 sacks of Class II cement at 2 BPM at 1000#. ISIP 500#. Spotted 4 sack cement plug on top of retainer to 3500'. Set retainer at 3446' and squeezed casing leak at approximately 3500' with 50 sacks of Class H cement at 2 BPM at 1500#. ISIP 300#. Dumped 5 sack class H cement plug on top of retainer to 3411'. Loaded hole with abandonment mud. Spotted 15 sack Class H cement plug from 2050' to 1950', across top of salt. Spotted 16 sack Class H cement plug from 100' to surface. Installed dry hole marker and cleaned location. Plugged and abandoned October 6, 1975.

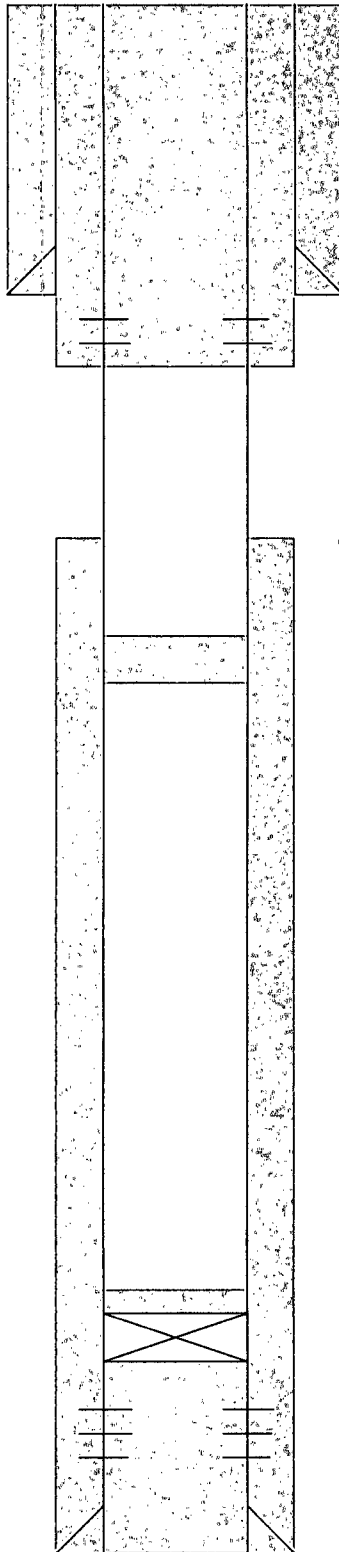
18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED D. F. Berlin TITLE Area Engineer DATE October 6, 1975

APPROVED BY John W. Runyon TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

**Gulf Oil Corporation  
Jalmat Field Yates Sand Unit No. 119  
API No. 30-025-08584  
660' FSL & 330' FEL, Unit P  
Section 11, T-22S, R-35E**



**12 1/4" Hole; 8 5/8" Csg. Set @  
374'. Cemented w/200 Sx.  
Cement circulated to surface.**

**Perf. 4 1/2" Csg @ 424'. Pump 179 Sx.  
Cement circulated to surface**

**TOC @ 1,500' by T.S.**

**20 Sx. 1,900'-2,100'**

**8.4 # Mud placed between plugs**

**Set Cement Retainer @ 3,549'. Pump  
80 Sx. below retainer. Set 5 Sx.  
cement on top of retainer**

**Perforations: 3,812'-3,970'**

**7 7/8" Hole; 4 1/2" Csg. Set @ 4,007'  
Cemented w/ 1405 Cu. Ft. of Diacel and 100  
Sx. Neat. TOC by T.S. @ 1,500'**

**T.D. 4,008'**

**Drilled: 7/56**

**Plugged: 1/85**

**Well was originally drilled as a  
producing well and subsequently  
converted to an injection well**

ENERGY AND MINERALS DEPARTMENT

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OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-103  
Revised 10-1-78

5a. Indicate Type of Lease  
State ☒ For ☐

5. State Oil & Gas Lease No.  
E-8244

SUNDARY NOTICES AND REPORTS ON WELLS  
DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO OPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.  
USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.

1. ☐ OIL WELL ☐ GAS WELL ☐ OTHER

2. Name of Operator  
Gulf Oil Corp.

3. Address of Operator  
P. O. Box 670, Hobbs, NM 88240

4. Location of Well  
UNIT LETTER P 660 FEET FROM THE South LINE AND 330 FEET FROM  
THE East LINE, SECTION 11 TOWNSHIP 22S RANGE 35E N.M.P.M.

7. Unit Agreement and  
Galimat Field  
Notes and Unit

8. Firm or Lease Name

9. Well No.  
119

10. Field and Pool, or Wildcat  
Galimat

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

12. County  
Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data  
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐  
TEMPORARILY ABANDON ☐  
PULL OR ALTER CASING ☐

PLUG AND ABANDON ☐  
CHANGE PLANS ☐

REMEDIAL WORK ☐  
COMMENCE DRILLING OPS. ☐  
CASING TEST AND CEMENT JOB ☐

ALTERING CASING ☐  
PLUG AND ABANDONMENT ☒

OTHER ☐

OTHER ☐

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

POH up the g + pkv. Set cmt ret @ 3549', test the g 3000#-ok.  
Pump 80 sl cmt. Pump 5 sl on ret. Circ hole w/abandonment  
mud. Spot 20 sl 1900'-2100'. Perf @ 424'. Establish rate. Pump  
179 sl + circ to surf. Set dry hole marker. Clean + clear  
loc. Work performed 12-27-84.

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

SIGNED R D Prite

TITLE AREA ENGINEER

DATE 1-2-85

APPROVED BY R A Keville

TITLE OIL & GAS INSPECTOR

DATE FEB - 4 1985

CONDITIONS OF APPROVAL, IF ANY:

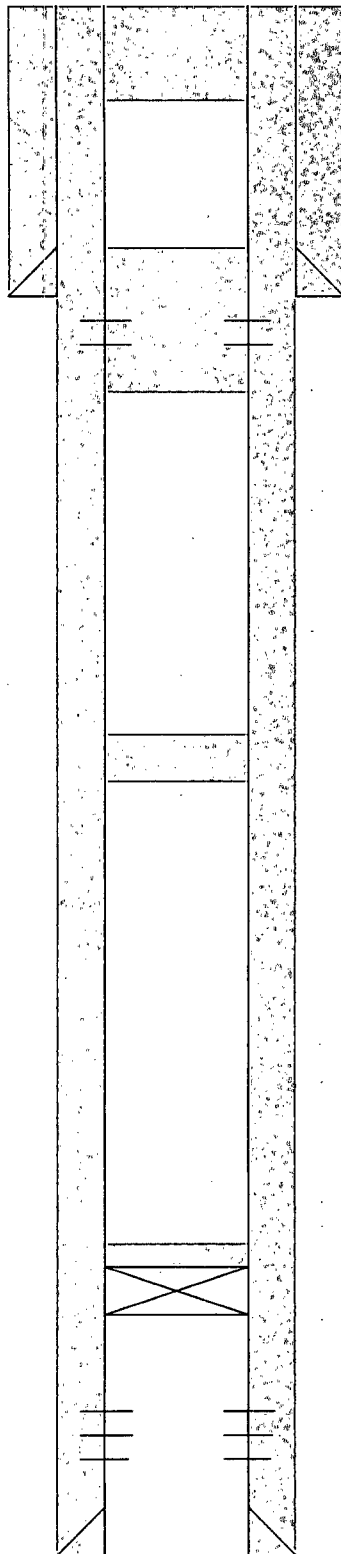
Smith & Marrs, Inc.

Cone Jalmat Yates Pool Unit No. 1

API No. 30-025-08605

1980' FSL & 1980' FEL, Unit J

Section 13, T-22S, R-35E



10 Sx. surface plug

12 1/4" Hole; 8 5/8" Csg. Set @  
288' Cemented w/200 Sx. Cement  
circulated to surface.

Perf. @ 320' and set packer @ 120'.  
Mix 40 Sx. & displace to 250'. Tag  
cement @ 238'.

1978-Repaired holes in 5 1/2" casing  
from 925'-1,170'. Pumped 250 Sx. dn.  
5 1/2" casing. Drilled out cement from  
807'-1,170'. Spot 50 sx. @ 1,160'.  
Bradenhead squeezed cement to 600  
psi and displaced calculated 10 sx.  
through casing holes. Repair  
successful.

15 Sx. 1,547'-1,678'

Mud placed between plugs

CIBP @ 3,550' w/ 4 Sx.  
Cement on top

Perforations: 3,663'-3,926'

7 7/8" Hole; 5 1/2" Csg. Set @ 4002' Cemented  
w/ 900 Sx. TOC @ Surface by Calc.

**T.D. 4,002'**

**Drilled: 6/55**

**Plugged: 1/86**

Well was drilled in 1955 as a producing well  
and was converted to an injection well in  
1963.

Melrose Operating Company

Form C-108 JFYSU

PA Schematic

Cone Jalmat Yates Pool Unit No. 1

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

JIL CONSERVATION DIVISIC  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

Form C-103  
Revised 10-1-73

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OPERATOR	

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. B-11223-2	

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.  
USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- Water Injection Well		7. Unit Agreement Name Cone Jalmat Yates Pool Unit	
2. Name of Operator J.R. Cone		8. Farm or Lease Name Tract 1	
3. Address of Operator Box 10217, Lubbock, TX 79408		9. Well No. 4	
4. Location of Well UNIT LETTER J, 1980 FEET FROM THE South LINE AND 1980 FEET FROM East THE East LINE, SECTION 13 TOWNSHIP 22-S RANGE 35-E NMPM.		10. Field and Pool, or Wildcat Jalmat	
15. Elevation (Show whether DF, RT, CR, etc.) 3599 DF (datum); 3594 THF		12. County Lea	

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data  
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input type="checkbox"/>	

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

Basic mechanical data: TD4002'-7-7/8" hole. PBSD 3963' (June 1955). 5½ csg cem. @ 4002' w/800 sx. Csg perf'd w/6 bullets/ft: 3663-67; 3676-96; 3710-74; 3790-3806 and 3830-3840'; also jet perf'd 3862-78 w/2 SPF; 3898-3902 & 3922-26' w/3 SPF. Well converted to water injection July 1963,

January 30, 1986: Set 5½ CIBP @3550. Spot 4 sx 3550 to 3510. Pull up hole to 3500 and circulate hole with mud. Spot 15 sx 1678 to 1547. Perf @320 and set packer @120'; Mix 40 sx and displace to 250'. Tested to 500# and tag cement at 238. Mix 10 sx surf plug and install marker.

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

SIGNED James R. Cone, Jr. TITLE Agent DATE 12-29-86  
APPROVED BY Steve E. Turnachoff TITLE OIL & GAS INSPECTOR DATE 10-2-87  
CONDITIONS OF APPROVAL, IF ANY:

E



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OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

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

5a. Indicate Type of Lease State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>	
5. State Oil & Gas Lease No. B-11223-2	
7. Unit Agreement Name Cone	
Jalmat Yates Pool Unit	
8. Farm or Lease Name Tract 1	
9. Well No. 4	
10. Field and Pool, or Wildcat Jalmat	
12. County Lea	

## SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- Water Injection Well
2. Name of Operator J. R. CONE
3. Address of Operator Box 871, Lubbock, TX 79408
4. Location of Well UNIT LETTER J 1980 FEET FROM THE South LINE AND 1980 FEET FROM THE East LINE, SECTION 13 TOWNSHIP 22-S RANGE 35-E NMPM.
15. Elevation (Show whether DF, RT, GR, etc.) 3599 DF (datum); 3594 THF

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input checked="" type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>
OTHER <input type="checkbox"/>	OTHER <input type="checkbox"/>
PLUG AND ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
CHANGE PLANS <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>

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

Basic mechanical data: TD 4002' - 7-7/8" hole. PBTD 3963' (June 1955). 5 1/2" csg cem. @ 4002' w/ 800 sx. Csg perf'd w/ 6 bullets/ft: 3663-67; 3676-96; 3710-74; 3790-3806; and 3830-3840'; also jet perf'd 3862-78 w/ 2 SPF; 3898-3902 & 3922-26' w/ 3 SPF. Well converted to water injection July 1963. T. Yates 3662'; Santa Rosa sands 925-1170'.

Objective: repair casing leak opposite Santa Rosa sands. Work performed May 10-31, 1978. Radioactive tracer survey indicated water leaving tubing at 3697' (above pkr), and leaving csg at 1058'; Pulled tubing & pkr. Ran csg scraper to 3963'. Set CIBP at 3542'. Pmpd water down csg 2.5 bpm at 300 psig. No air blow off 8-5/8" x 5-1/2" bradenhead. Pulled tbq. Pmpd 250 sx Class C cem. w/ 3% CaCl<sub>2</sub> down 5 1/2" csg to final press. 900 psig. Displaced cem. w/ 19 BW for calc. T. Cem. 800'. WOC 76 hr. Drld out cem. (807 to 1170'). Tstd csg. to 600 psig. Press. dropped to 200 psig in 2 min. Ran open end tbq to 1160'. Spotted 50 sx (10 bbl) Class C neat cem. for calc. T. cem. in 5 1/2" csg at 625'. Pulled tbq. Bradenhead sqzd cem. to 600 psig & displaced calc. 10 sx thru csg hole. SD 20 min. Pressured 5 1/2" csg to 1000 psig - no cem. slurry movement. WOC 43 hrs. Drld out cem. (725 to 1170'). Tstd 5 1/2" csg to 600 psig; no press. loss. Drld out CIBP at 3542' & pushed same to firm bottom at 3925'. Ran new Baker plastic coated AD-1 tension pkr open end on 2-3/8" tbq. Set pkr (top) at 3502' under 12 pts ten. Resumed water injection: 255 B/D w/ TP 1280 psig. 5 1/2" CP = zero (no surface evidence of fluid movement into 5 1/2" x 2-3/8" annulus).

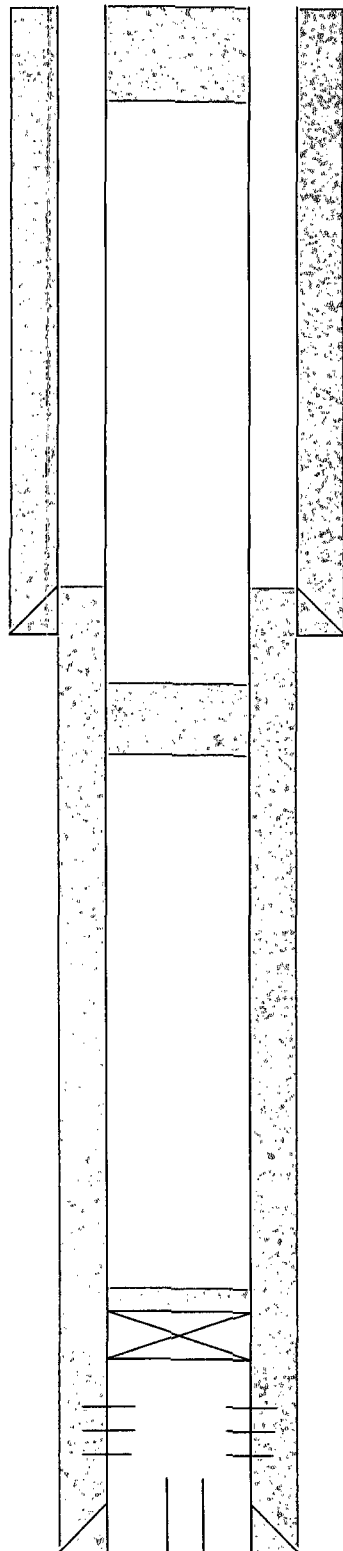
18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED L. O. Storm TITLE Engineer DATE August 2, 1978

APPROVED BY Jerry Sexton DATE AUG 4 1978  
Dist. 1, Supv.  
CONDITIONS OF APPROVAL, IF ANY:

**Gulf Oil Corporation**  
**Jalmat Field Yates Sand Unit No. 133**  
**API No. 30-025-08612**  
**1980' FNL & 1980' FWL, Unit F**  
**Section 13, T-22S, R-35E**

**Drilled: 8/55**  
**Plugged: 6/74**



**T.D. 3,895'**

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# NEW MEXICO OIL CONSERVATION COMMISSION

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

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	
B-158	
7. Unit Agreement Name	
Field Yates Sand Unit	
8. Farm or Lease Name	
9. Well No.	
133	
10. Field and Pool, or Wildcat	
Jalmat	
12. County	
Lea	

## SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- <b>Water Injection Well</b>	Jalmat
2. Name of Operator	
Gulf Oil Corporation	
3. Address of Operator	
Box 670, Hobbs, New Mexico 88240	
4. Location of Well	
UNIT LETTER <b>F</b> , <b>1980</b> FEET FROM THE <b>North</b> LINE AND <b>1980</b> FEET FROM <b>West</b> LINE, SECTION <b>13</b> TOWNSHIP <b>22-S</b> RANGE <b>35-E</b> NMPM.	
15. Elevation (Show whether DF, RT, GR, etc.)	
3604' DF	

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

### NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>

### SUBSEQUENT REPORT OF:

REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER <input type="checkbox"/>

Plugged and abandoned.

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

3895' TD.

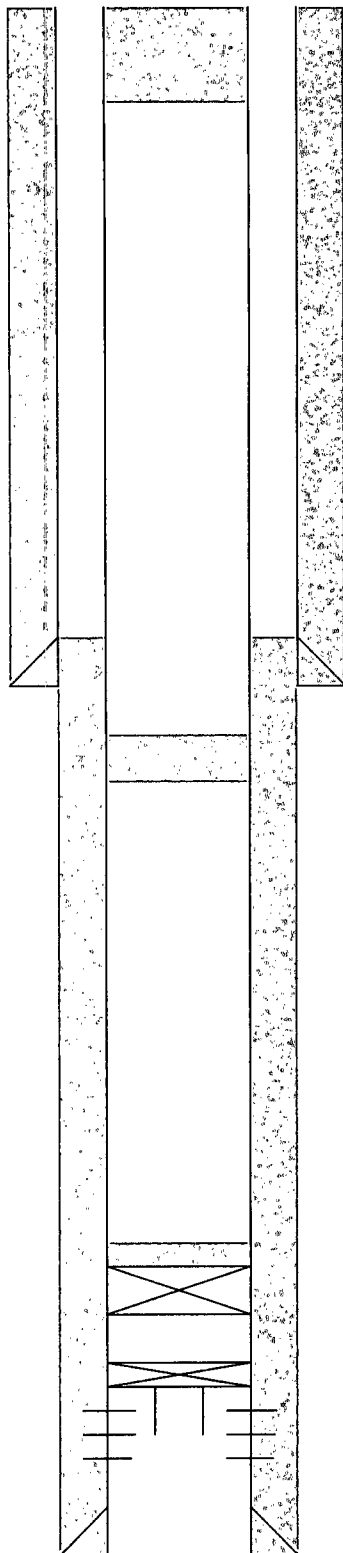
Pulled injection equipment. Left 26' of 2-1/16" tubing and Larkin packer in hole. Ran CI BP and set at 3540'. Loaded hole with gel water. Spotted 5 sack cement plug on top of BP. Spotted 10 sack cement plug from 2000' to 1850', across salt. Spotted 8 sack cement plug from 100' to surface. Installed dry hole marker and cleaned location. Plugged and abandoned June 18, 1974.

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

SIGNED <u>B. J. Barakat</u>	TITLE <u>Area Engineer</u>	DATE <u>June 18, 1974</u>
APPROVED BY <u>John W. Bryan</u>	TITLE _____	DATE _____
CONDITIONS OF APPROVAL, IF ANY:		

**Gulf Oil Corporation**  
**Jalmat Field Yates Sand Unit No. 130**  
**API No. 30-025-08614**  
**660' FNL & 330' FWL, Unit D**  
**Section 13, T-22S, R-35E**

**Drilled: 8/56**  
**Plugged: 6/74**



**15 Sx. 100' to surface**

**11" Hole; 8 5/8" Csg. Set @  
1,825'. Cemented w/800 Sx.  
Cement circulated to surface.**

**Calc. TOC @ 1,791'**

**10 Sx. 1,840'-2,000'**

**8.4 # Mud placed between plugs**

**CIBP @ 3,740' w/ 5 Sx.  
Cement on top**

**Fish: 6' Tubing & Packer @ 3,751'**

**Perforations: 3,783'-3,930'**

**6 3/4" Hole; 4 1/2" Csg. Set @ 3940' Cemented  
w/ 400 Sx. Calc. TOC @ 1,791'**

**T.D. 3,940'**

**Well was originally drilled as a  
producing well and was converted to an  
injection well in 1963.**

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# NEW MEXICO OIL CONSERVATION COMMISSION

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

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	
B-158	

## SUNDRY NOTICES AND REPORTS ON WELLS

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

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- <b>Water Injection Well</b> <b>Jalmat</b>		7. Unit Agreement Name
2. Name of Operator		8. Farm or Lease Name
<b>Gulf Oil Corporation</b>		
3. Address of Operator		9. Well No.
<b>Box 670, Hobbs, New Mexico 88240</b>		<b>130</b>
4. Location of Well		10. Field and Pool, or Wildcat
UNIT LETTER <b>D</b> <b>660</b> FEET FROM THE <b>North</b> LINE AND <b>330</b> FEET FROM		<b>Jalmat</b>
THE <b>West</b> LINE, SECTION <b>13</b> TOWNSHIP <b>22-B</b> RANGE <b>35-E</b> NMPM.		
15. Elevation (Show whether DF, RT, GR, etc.)		12. County
<b>3609' KB</b>		<b>LEA</b>

16.

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data  
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	

Plugged and abandoned

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

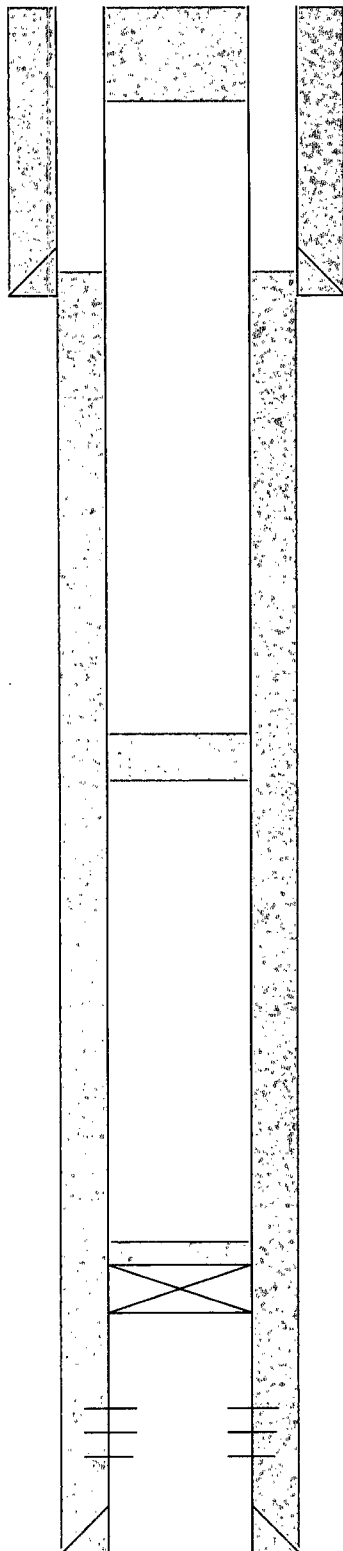
3940' TD, 3938' PB.

Could not release packer at 3957'. Cut and recovered tubing at 3751', leaving 6' tubing and packer in hole. Ran CI BP and set at 3740'. Loaded hole with gel water. Spotted 5 sack cement plug on top of BP. Spotted 10 sack cement plug from 2000' to 1840', across salt. Spotted 15 sack cement plug from 100' to surface. Installed dry hole marker and cleaned location. Plugged and abandoned June 18, 1974.

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

SIGNED <u><i>B. J. Ambert</i></u>	TITLE <u>Area Engineer</u>	DATE <u>June 18, 1974</u>
APPROVED BY <u><i>John W. Ruggen</i></u>	TITLE <u></u>	DATE <u>SEP 18 1974</u>
CONDITIONS OF APPROVAL, IF ANY:		

**Gulf Oil Corporation**  
**Jalmat Field Yates Sand Unit No. 131**  
**API No. 30-025-20295**  
**660' FNL & 1650' FWL, Unit C**  
**Section 13, T-22S, R-35E**



**Plug 100' to surface**

**11" Hole; 8 5/8" Csg. Set @ 154'**  
**Cemented w/100 Sx. Cement**  
**circulated to surface.**

**TOC @ 150'**

**Drilled: 10/63**

**Plugged: 6/74**

**10 Sx. 1,850'-2,000'**

**8.4 # Mud placed between plugs**

**CIBP @ 3,740' w/ 5 Sx.**  
**Cement on top**

**Perforations: 3,770'-3,864'**

**6 3/4" Hole; 4 1/2" Csg. Set @ 3932' Cemented**  
**w/ 430 Sx. TOC @ 150' (Well File)**

**T.D. 3,933'**

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# NEW MEXICO OIL CONSERVATION COMMISSION

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

5a. Indicate Type of Lease State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. B-158
7. Unit Agreement Name Jalmat Field Yates Sand Unit
8. Farm or Lease Name
9. Well No. 131
10. Field and Pool, or Wildcat Jalmat
12. County Lea

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- 2. Name of Operator Gulf Oil Corporation 3. Address of Operator Box 670, Hobbs, New Mexico 88240 4. Location of Well UNIT LETTER C, 660 FEET FROM THE North LINE AND 1650 FEET FROM THE West LINE, SECTION 13 TOWNSHIP 22-S RANGE 35-E NMPM. 15. Elevation (Show whether DF, RT, GR, etc.) 3593' GL	6. Jalmat
--	-----------

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

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> OTHER <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> OTHER <input type="checkbox"/>
REMEDIAL WORK <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> CASING TEST AND CEMENT JOBS <input type="checkbox"/> OTHER <input type="checkbox"/>	
ALTERING CASING <input type="checkbox"/> PLUG AND ABANDONMENT <input type="checkbox"/>	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1703.

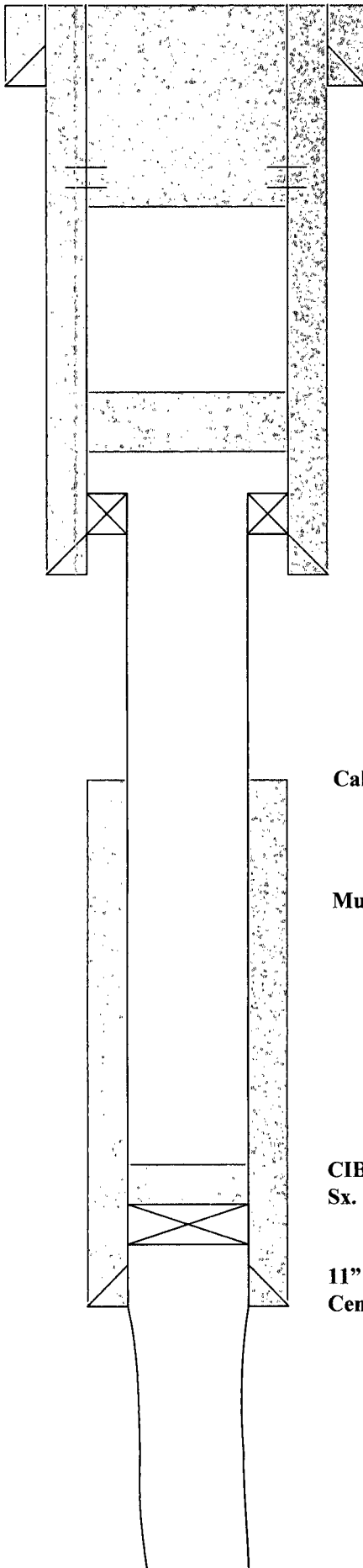
3933' TD, 3922' PB.

Set CI BP at 3740'. Circulated hole with gel water. Capped BP with 5 sacks cement. Spot 10 sack cement plug from 2000' to 1850', across salt. Spotted 10 sack cement plug from 100' to surface. Installed dry hole marker and cleaned location. Plugged and abandoned June 17, 1974

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

SIGNED B. J. Barbiatz TITLE Area Engineer DATE June 18, 1974  
APPROVED BY John W. Puryear TITLE Geologist DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

**Gulf Oil Corporation**  
**Jalmat Field Yates Sand Unit No. 125**  
**API No. 30-025-21485**  
**660' FNL & 1650' FWL, Unit C**  
**Section 14, T-22S, R-35E**



**Surface Plug: 15'-Surface**

**24" Hole; 20" Csg. Set @ 33' Cmt. w/  
5 Sx. Cement circulated to surface.**

**Pumped 290 Sx. of cement through  
hole in 13 3/8" csg. @ 110'. Tagged  
cement inside Csg. @ 15'**

**60 Sx. 1,950'-2,075'**

**17 1/2" Hole; 13 3/8" Csg. Set @  
2,130'. Cemented w/1630 Sx.  
Cement circulated to surface.**

**Calc. TOC @ 2,725'**

**Mud placed between plugs**

**CIBP @ 4,075" w/25  
Sx. of Cement on top**

**11" Hole; 8 5/8" Csg. Set from 2,018'-4,178'  
Cemented w/ 400 Sx. Calc. TOC @ 2,725'**

**Drilled: 5/62**  
**Plugged: 11/76**

**Well was originally drilled as a water  
supply well.**

**T.D. 4,663'**

**Melrose Operating Company**  
**Form C-108 JFYSU**  
**PA Schematic**  
**JFYSU No. 125**



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# NEW MEXICO OIL CONSERVATION COMMISSION

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

5a. Indicate Type of Lease  
State ☒ Fee ☐  
5. State Oil & Gas Lease No.

## SUNDRY NOTICES AND REPORTS ON WELLS DO NOT USE THIS FORM FOR NOTICES TO ABANDON OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR ABANDONMENT" (FORM C-101) FOR SUCH PROPOSALS.

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- <b>Water Supply Well</b>	7. Unit Agreement Name <b>Jalmat Field Yates Sand Unit</b>
2. Name of Operator <b>Gulf Oil Corporation</b>	8. Form of Lease Name
3. Address of Operator <b>Box 670, Hobbs, New Mexico 88240</b>	9. Well No. <b>125</b>
4. Location of Well UNIT LETTER <b>C</b> <b>660</b> FEET FROM THE <b>North</b> LINE AND <b>1650</b> FEET FROM THE <b>West</b> LINE, SECTION <b>14</b> TOWNSHIP <b>22-S</b> RANGE <b>35-E</b> N.M.P.M.	10. Field and Pool, or Wildcat <b>Jalmat</b>
11. Elevation (Show whether DF, RT, GR, etc.) <b>3600' GL</b>	12. County <b>Lea</b>

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data  
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input type="checkbox"/>	
		OTHER <input type="checkbox"/>	
Plugged and abandoned			

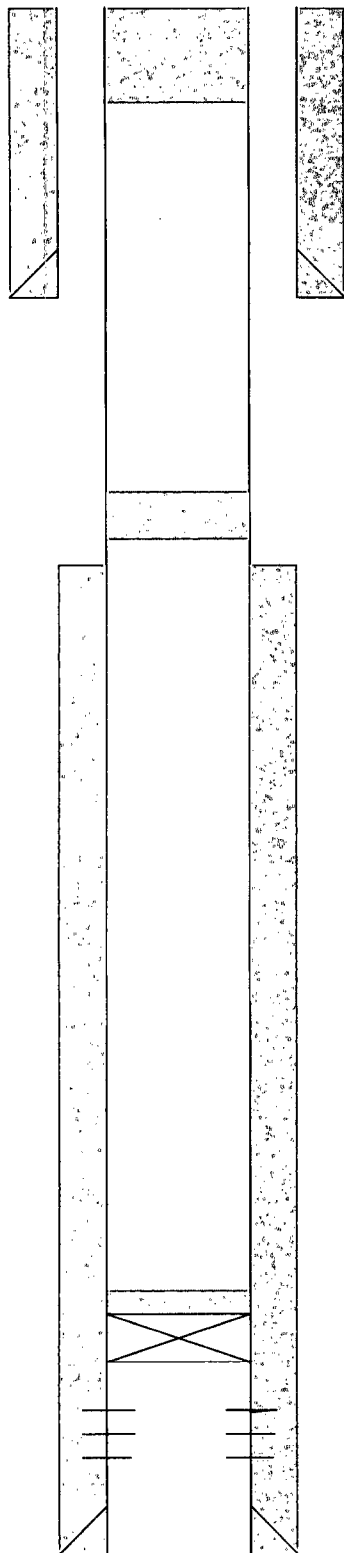
17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Spotted 25 sacks, 100' cement plug on top of CIRP at 4075'. Loaded hole with abandonment mud. Spotted 60 sack, 125' cement plug from 2075' to 1950'. Pumped 190 sacks of Class C cement containing 3% Ca Cl<sub>2</sub> and 100 sacks of Class C neat cement thru hole in 13-3/8" casing at 110' and circulated out 13-3/8" - 20" annulus to surface. Tag cement inside 13-3/8" casing at 15'. Spotted cement plug from 15' to surface. Installed dry hole marker. Plugged and abandoned November 22, 1976.

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

SIGNED <u>C. R. Korytkova</u>	TITLE <u>Project Petroleum Engineer</u>	DATE <u>November 23, 1976</u>
APPROVED BY <u>John W. Rump</u>	TITLE <u>Geologist</u>	DATE <u>11/23/76</u>
CONDITIONS OF APPROVAL, IF ANY:		

**Gulf Oil Corporation  
Jalmat Field Yates Sand Unit No. 120  
API No. 30-025-08585  
660' FSL & 1650' FEL, Unit O  
Section 11, T-22S, R-35E**



**Cement Plug- 62' to surface**

**12 1/4" Hole; 8 5/8" Csg. Set @  
335'. Cemented w/225 Sx.  
Cement circulated to surface.**

**Drilled: 3/57  
Plugged: 3/73**

**16 Sx. 1,100'-1,260'**

**TOC @ 1,790' by T.S.**

**Mud placed between plugs**

**Set CIBP @ 3,801' w/  
10 Sx. cement on top.**

**Perforations: 3,910'-3,984'**

**7 7/8" Hole; 5 1/2" Csg. Set @ 4,030'  
Cemented w/ 294 Sx. TOC @ 1,790' by T.S.**

**T.D. 4,031'**

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# NEW MEXICO OIL CONSERVATION COMMISSION

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

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	
B-8244	

## SUNDRY NOTICES AND REPORTS ON WELLS

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

1. Type of Well <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		7. Unit Agreement Name
2. Name of Operator		Jalmat Field Yates Sand Unit
3. Address of Operator		8. Farm or Lease Name
Box 670, Hobbs, New Mexico 88240		9. Well No.
4. Location of Well		120
UNIT LATER 0, 660 FEET FROM THE South LINE AND 1650 FEET FROM		10. Field and Pool, or Wildcat
THE East LINE, SECTION 11 TOWNSHIP 22-S RANGE 35-E NMPM.		Jalmat
15. Elevation (Show whether DF, RT, GR, etc.)		12. County
3609' GL		Lea

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

### NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

TEMPORARILY ABANDON ☐

DRILL OR ALTER CASING ☐

OTHER ☐

PLUG AND ABANDON ☐

CHANGE PLANS ☐

### SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

COMMENCE DRILLING OPNS. ☐

CASING TEST AND CEMENT JOB ☐

OTHER ☐

ALTERING CASING ☐

PLUG AND ABANDONMENT ☐

Plugged and abandoned

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

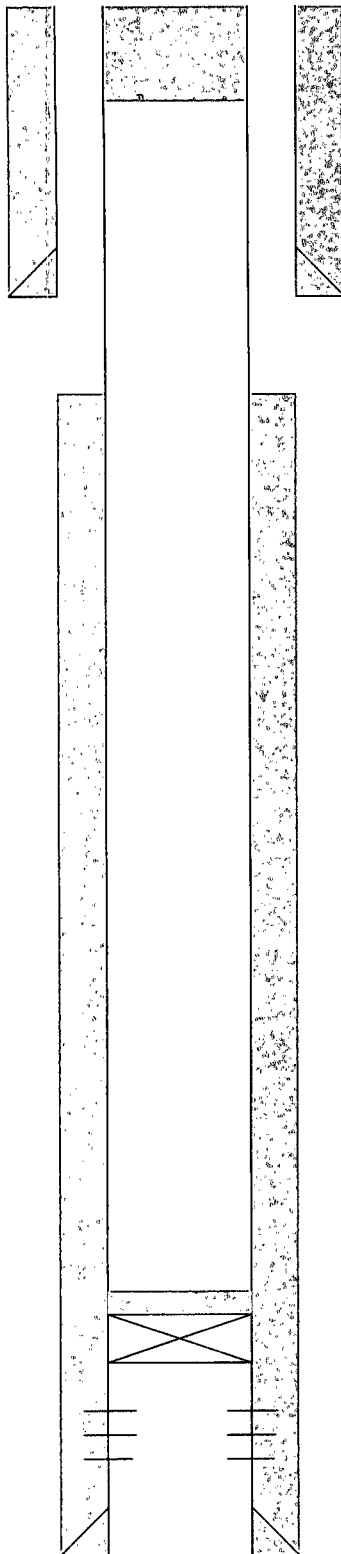
4026' PB, 4031' TD.

Pulled rods and tubing. Ran CI BP on 2-7/8" tubing and set BP at 3801'. Spotted 10 sack cement plug from BP to 3712'. Loaded 5-1/2" casing with 83 barrels of water containing 23 sacks of salt gel. Spotted 16 sack cement plug from 1260' to 1100', at top of salt. Spotted 62' cement plug from 62' to surface. Installed dry hole marker. Cleaned location. Plugged and abandoned March 30, 1973.

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

SIGNED <u>K. J. Breazale</u>	TITLE <u>Area Engineer</u>	DATE <u>March 30, 1973</u>
APPROVED BY <u>John W. Remyan</u>	TITLE _____	DATE _____
OR, BY APPROVAL, IF ANY:		

**Gulf Oil Corporation  
Jalmat Field Yates Sand Unit No. 118  
API No. 30-025-08599  
660' FSL & 660' FWL, Unit M  
Section 12, T-22S, R-35E**



**5 Sx. 50' to surface**

**11" Hole; 8 5/8" Csg. Set @ 317'.  
Cemented w/225 Sx. Cement  
circulated to surface.**

**Calculated TOC @ 754'**

**8.4 # Mud placed between plugs**

**CIBP @ 3,725' w/ 10  
Sx. Cement on top**

**Perforations: 3,902'-3,920'**

**7 7/8" Hole; 5 1/2" Csg. Set @ 3951'.  
Cemented w/ 600 Sx. Calculated TOC  
@ 754'.**

**T.D. 3,952'**

**Drilled: 11/56  
Plugged: 2/72**

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# NEW MEXICO OIL CONSERVATION COMMISSION

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

5a. Indicate Type of Lease
State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. E-2682

## SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- <input type="checkbox"/>	7. Unit Agreement Name Jalmat Field Yates Sand
2. Name of Operator Gulf Oil Corporation	8. Farm or Lease Name
3. Address of Operator P. O. Box 670, Hobbs, N.M. 88240	9. Well No. 118
4. Location of Well UNIT LETTER M, 660 FEET FROM THE south LINE AND 660 FEET FROM THE west LINE, SECTION 12 TOWNSHIP 22S RANGE 35E NMPM.	10. Field and Pool, or Wildcat Jalmat
15. Elevation (Show whether DF, RT, GR, etc.) 3612' GL	12. County Lea

16.

### Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>

### SUBSEQUENT REPORT OF:

REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input checked="" type="checkbox"/>
CASING TEST AND CEMENT JOBS <input type="checkbox"/>	OTHER <input type="checkbox"/>

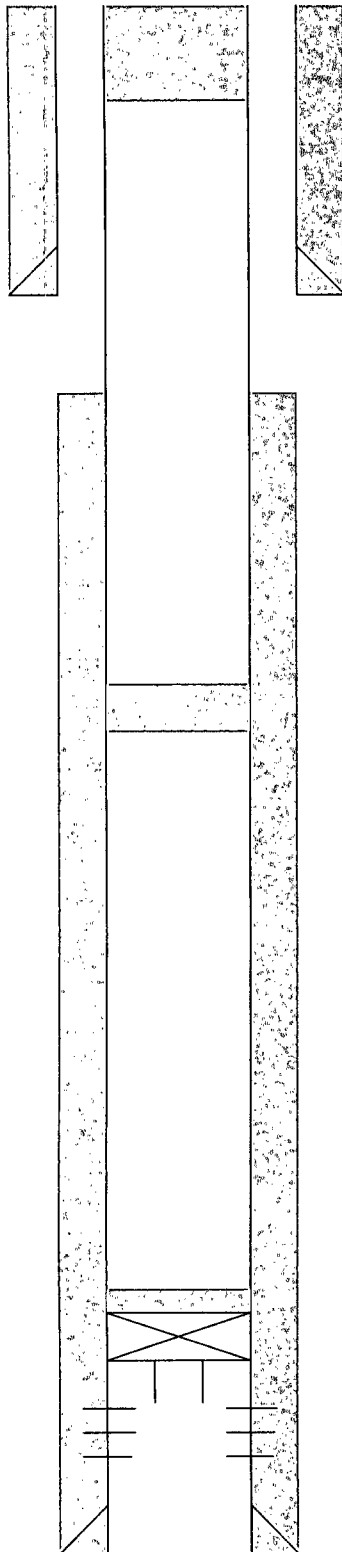
17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

3952' TD. 3949' PB. Ran CI BP and set at 3725'. Loaded hole with 86 barrels of water containing 15 sacks of Bentonite. Mud weight 8.4#. Spotted 10 sacks cement on top of BP. Spotted 6 sacks cement from 50' to surface. Installed dry hole marker and cleaned location. Plugged and abandoned 2-14-72.

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

SIGNED L. D. Katterer TITLE Area Engineer DATE 2-14-72  
APPROVED BY Nathan E. Clegg TITLE OIL & GAS INSPECTOR DATE MAR 8 1972  
CONDITIONS OF APPROVAL, IF ANY:

**Gulf Oil Corporation**  
**Jalmat Field Yates Sand Unit No. 117**  
**API No. 30-025-08600**  
**660' FSL & 1980' FWL, Unit N**  
**Section 12, T-22S, R-35E**



15 Sx. 100' to surface

11" Hole; 8 5/8" Csg. Set @ 292'.  
 Cemented w/225 Sx. Cement  
 circulated to surface.

Calculated TOC @ 710'

15 Sx. 1,849'-2,001' @ Top of salt.

CIBP @ 3,639' w/ 5 Sx.  
 Cement on top

10' of 2 1/16" Tubing left in hole.

Perforations: 3,740'-3,842'

7 7/8" Hole; 5 1/2" Csg. Set @ 3907'.  
 Cemented w/ 600 Sx. Calculated TOC  
 @ 710'.

**T.D. 3,908'**

**Drilled: 1/57**  
**Plugged: 6/74**

**Melrose Operating Company**  
**Form C-108 JFYSU**  
**PA Schematic**  
**JFYSU No. 117**

NO. OF COPIES RECEIVED	
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SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

# NEW MEXICO OIL CONSERVATION COMMISSION

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

<p align="center"><b>SUNDRY NOTICES AND REPORTS ON WELLS</b></p> <p align="center"><small>(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE APPLICATION FOR PERMIT TO DRILL (FORM C-101) FOR SUCH PROPOSALS.)</small></p>		<p>5a. Indicate Type of Lease State <input checked="" type="checkbox"/> Fee <input type="checkbox"/></p> <p>5. State Oil &amp; Gas Lease No. E-2682</p>
<p>1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- <u>Water Injection Well</u></p> <p>2. Name of Operator <u>Gulf Oil Corporation</u></p> <p>3. Address of Operator <u>Box 670, Hobbs, New Mexico 88240</u></p> <p>4. Location of Well UNIT LETTER <u>N</u> <u>660</u> FEET FROM THE <u>South</u> LINE AND <u>1980</u> FEET FROM THE <u>West</u> LINE, SECTION <u>12</u> TOWNSHIP <u>22-S</u> RANGE <u>35-E</u> NMPM.</p>	<p>7. Unit Agreement Name <u>Jalmar Field Yates Sand Unit</u></p> <p>8. Farm or Lease Name <u>Jalmar</u></p> <p>9. Well No. <u>117</u></p> <p>10. Field and Pool, or Wildcat <u>Jalmar</u></p>	
<p>15. Elevation (Show whether DF, RT, GR, etc.) <u>3606' GL</u></p>	<p>12. County <u>Lea</u></p>	

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input type="checkbox"/>	
		OTHER <input type="checkbox"/>	

Plugged and abandoned.

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1703.

3908' TD, 3900' PB.

Could not pull tubing. Cut and recovered 2-1/16" tubing from 3713', leaving 10' tubing and packer in hole. Ran CI BP and set at 3639'. Loaded hole with gel water. Spotted 5 sack cement plug on top of BP. Spotted 15 sack cement plug from 2001' to 1849', across salt. Spotted 15 sack cement plug from 100' to surface. Installed dry hole marker and cleaned location. Plugged and abandoned June 18, 1974.

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

SIGNED <u>B. J. Ambrose</u>	TITLE <u>Area Engineer</u>	DATE <u>June 18, 1974</u>
APPROVED BY <u>John W. Ramsey</u>	TITLE <u>Geologist</u>	DATE <u>SEP 18 1974</u>
CONDITIONS OF APPROVAL, IF ANY:		

Analytical Laboratory Report for:

**MELROSE OPERATING  
COMPANY**

UNICHEM Representative: Hanson, Lavell

## Production Water Analysis

Listed below please find water analysis report from: Jalmat Sand Unit, IPD

Lab Test No: 2003144500 Sample Date: 11/03/2003  
Specific Gravity: 1.054  
TDS: 80968  
pH: 7.50

Cations:	mg/L	as:
Calcium	2860	(Ca <sup>++</sup> )
Magnesium	3086	(Mg <sup>++</sup> )
Sodium	27413	(Na <sup>+</sup> )
Iron	8.00	(Fe <sup>++</sup> )
Barium	2.40	(Ba <sup>++</sup> )
Strontium	58.30	(Sr <sup>++</sup> )
Manganese	1.04	(Mn <sup>++</sup> )
Anions:	mg/L	as:
Bicarbonate	708	(HCO <sub>3</sub> <sup>-</sup> )
Sulfate	1650	(SO <sub>4</sub> <sup>-</sup> )
Chloride	46200	(Cl <sup>-</sup> )
Gases:		
Carbon Dioxide	50	(CO <sub>2</sub> )
Hydrogen Sulfide	58	(H <sub>2</sub> S)



*New Mexico Office of the State Engineer*  
**POD Reports and Downloads**

---

Township:  Range:  Sections:

NAD27 X:  Y:  Zone:  Search Radius:

County:  Basin:  Number:  Suffix:

Owner Name: (First)  (Last)  ☐ Non-Domestic ☐ Domestic ☒ All

---

**WATER COLUMN REPORT 08/27/2008**

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

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	Depth Well	Depth Water	Water (in feet) Column
CP 00753	22S	35E	14	2	2					215	185	30

Record Count: 1

**Melrose Operating Company**  
**Form C-108 JFYSU**  
**State Engineer**  
**Fresh Water Well Data**

P.O. BOX 2187

HOBBS, N.M. 88240



PHONE: (505) 393-7726

W A T E R   A N A L Y S I S   R E P O R T

Report for: John Pool  
cc: Chuck Morgan  
cc: Cam Robbins  
cc:  
Company: SDX Resources, Inc.  
Address:  
Service Engineer: John Cornwell

Date sampled: 02/23/95  
Date reported: 03/01/95  
Lease or well #: JalMat #113  
County: State:  
Formation:  
Depth:  
Submitted by: John Cornwell

CHEMICAL COMPOSITION :	mg/L	meq/L
Chloride (Cl)	4000	113
Iron (Fe) (total)	1.0	
Total hardness	1500	
Calcium (Ca)	320	16
Magnesium (Mg)	170	14
Bicarbonates (HCO3)	414	7
Carbonates (CO3)	0	
Sulfates (SO4)	540	11
Hydrogen sulfide (H2S)	0	
Carbon dioxide (CO2)	0	
Sodium (Na)	2327	101
Total dissolved solids	7773	
Barium (Ba)	n/a	
Strontium (Sr)	n/a	
Specific Gravity	1.005	
Density (#/gal.)	8.375	
pH	7.080	
IONIC STRENGTH	0.15	

Stiff-Davis (CaCO3) Stability Index :

SI = pH - pCa - pAlk - K

SI @ 86 F = +0.20  
104 F = +0.42  
122 F = +0.66  
140 F = +0.91  
158 F = +1.18

This water is 2406 mg/l (-79.35%) under ITS CALCULATED  
CaSO4 saturation value at 82 F.  
SATURATION= 3032 mg/L. PRESENT= 626 mg/L

REPORTED BY JOY DUNCAN

LAB TECHNICIAN

Melrose Operating Company  
Form C-108 JFYSU  
Fresh Water Analysis

Form C-108  
Affirmative Statement  
Melrose Operating Company  
Jalmat Field Yates Sand Unit Wells No. 179, 185, 195, 222 and 250  
Sections 13 & 14, T-22 South, R-35 East, NMPM,  
Lea County, New Mexico

Available geologic and engineering data has been examined and no evidence of open faults or hydrological connection between the injection zone and any underground sources of drinking water has been found.

  
Tony Beilman

Operations Manager  
Melrose Operating Company

9/23/08  
Date

September 22, 2008

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

TO: OFFSET LEASEHOLD OPERATORS & SURFACE OWNER

Re: Melrose Operating Company  
Form C-108 (Application for Authorization to Inject)  
Jalmat Field Yates Sand Unit Wells No. 179, 185, 195, 222 and 250  
Jalmat Field Yates Sand Unit Waterflood Project  
Sections 13 & 14, T-22 South, R-35 East, NMPM,  
Lea County, New Mexico

Ladies & Gentlemen:

Enclosed please find a copy of Oil Conservation Division Form C-108 (Application for Authorization to Inject) for the Melrose Operating Company Jalmat Field Yates Sand Unit Wells No. 179, 185, 195, 222 and 250, located in Sections 13 and 14, T-22 South, R-35 East, NMPM. You are being provided a copy of the application as an offset operator, offset leaseholder or surface owner. The proposed expansion of the Jalmat Field Yates Sand Unit Waterflood Project will allow the completion of an efficient injection/production pattern within the Unit Area.

Objections must be filed with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, within 15 days.

If you should have any questions, please contact me at (469) 721-2046.

Sincerely,

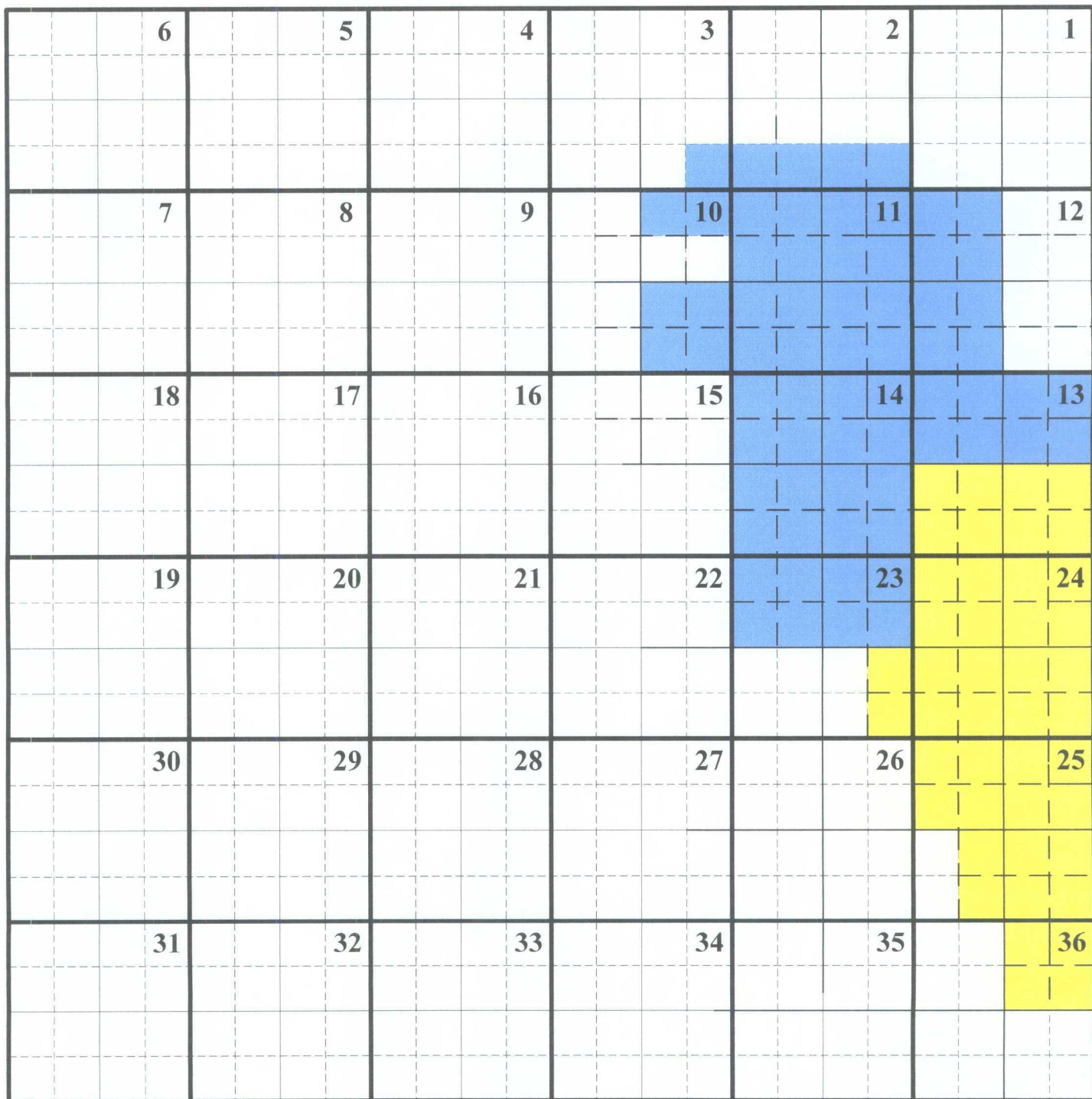


Tony Beilman  
Operations Manager  
Melrose Operating Company  
1000 W. Wilshire  
Suite 223  
Oklahoma City, Oklahoma 73116

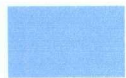
Enclosure

# 35 East

22S

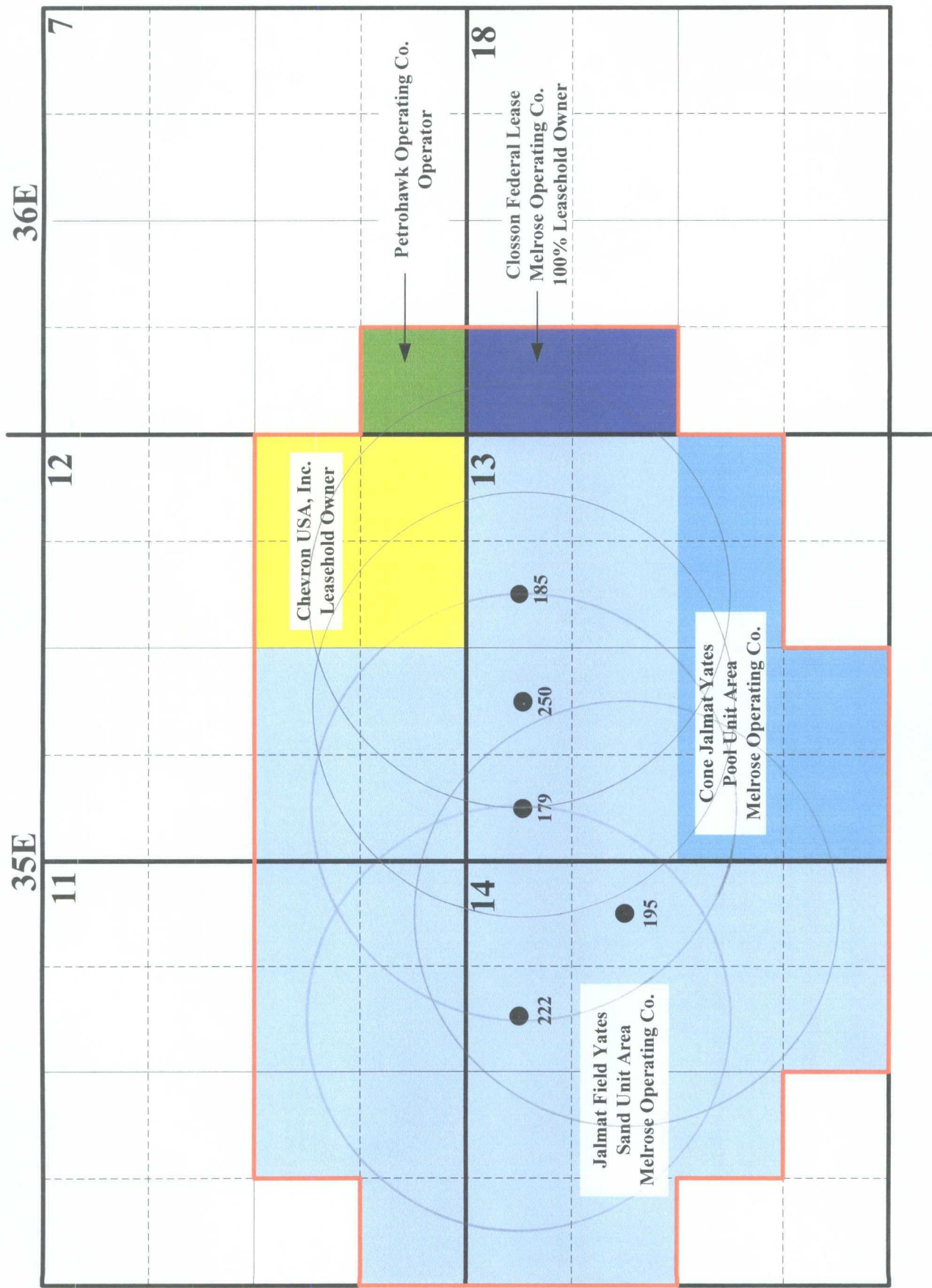


**Cone Jalmat Yates Pool Unit Area**



**Jalmat Field Yates Sand Unit Area**

**Melrose Operating Company**



**Melrose Operating Company  
Form C-108 JFYSU**

**Offset Operator/Leasehold Owner Identification**

RECEIVED

2008 OCT 6 PM 3 30

Mr. William Jones  
New Mexico Oil Conservation Division  
1220 S. St. Francis Drive  
Santa Fe, New Mexico 87505

Dear Mr. Jones,

Enclosed please find the publication notice for the Melrose Operating Company Jalmat Field Yates Sand Unit Wells No. 179, 185, 195, 222 and 250. This WFX application was filed on October 2, 2008. If you need any additional information, please contact me at (505) 690-9453.

Thank You,

A handwritten signature in black ink, appearing to read "David Catanach", with a long horizontal flourish extending to the right.

David Catanach  
Regulatory Consultant

# Affidavit of Publication

State of New Mexico,  
County of Lea.

I, KATHI BEARDEN  
PUBLISHER

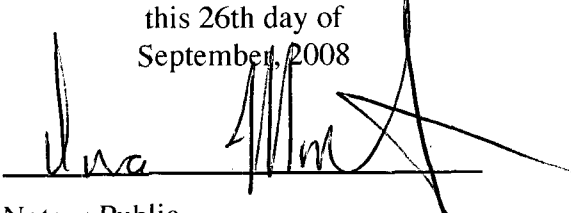
of the Hobbs News-Sun, a  
newspaper published at Hobbs, New  
Mexico, do solemnly swear that the  
clipping attached hereto was  
published in the regular and entire  
issue of said newspaper, and not a  
supplement thereof for a period

of 1 issue(s).

Beginning with the issue dated  
September 26, 2008  
and ending with the issue dated  
September 26, 2008

  
PUBLISHER

Sworn and subscribed to before me  
this 26th day of  
September, 2008

  
Notary Public

My commission expires  
February 07, 2009

(Seal)



OFFICIAL SEAL  
DORA MONTZ  
NOTARY PUBLIC  
STATE OF NEW MEXICO

My Commission Expires: \_\_\_\_\_

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.

## LEGAL NOTICE September 26, 2008

Melrose Operating Company, 1000 W. Wilshire, Suite 223, Oklahoma City, Oklahoma 73116 has filed a Form C-108 (Application for Authorization to Inject) with the Oil Conservation Division seeking administrative approval to convert the following-described wells, to waterflood injection wells within the Jalmat Field Yates Sand Unit Waterflood Project, Jalmat (Tansill-Yates-Seven Rivers) Oil & Gas Pool, Lea County, New Mexico:

JFYSU Well No. 179	730' FNL & 699' FWL (Unit D) Section 13, T-22S, R-35E Injection Interval: 3,772'-4,002' Tansill-Yates-Seven Rivers
JFYSU Well No. 185	692' FNL & 2089' FEL (Unit B) Section 13, T-22S, R-35E Injection Interval: 3,662'-3,904' Tansill-Yates-Seven Rivers
JFYSU Well No. 195	1970' FNL & 448' FEL (Unit H) Section 14, T-22S, R-35E Injection Interval: 3,829'-4,035' Tansill-Yates-Seven Rivers
JFYSU Well No. 222	606' FNL & 1802' FEL (Unit B) Section 14, T-22S, R-35E Injection Interval: 3,853'-4,024' Tansill-Yates-Seven Rivers
JFYSU Well No. 250	625' FNL & 1853' FWL (Unit C) Section 13, T-22S, R-35E Injection Interval: 3,744'-4,055' Tansill-Yates-Seven Rivers

Produced water from the Jalmat Oil & Gas Pool and source water from the Santa Rosa formation will be injected into the wells at average and maximum rates of 500 and 1,500 barrels of water per day, respectively. The average and maximum surface injection pressure for each well is anticipated to be 1,132 psi and 2,000 psi, respectively.

Interested parties must file objections with the New Mexico Oil Conservation Division, 1220 S. St Francis Drive, Santa Fe, New Mexico 87505, within 15 days of the date of this publication.

Additional information can be obtained by contacting Mr. Tony Beilman, Operations Manager, Melrose Operating Company, at (469) 721-2046.  
#24414

02108664

00017780

DAVID CATANACH  
1142 VUELTA DE LAS ACEQUIAS  
SANTA FE, NM 87507



**Offset Operator/Leasehold Owner Notification List**

Chevron USA, Inc.  
Box 4791  
Houston, Texas 77210-4791

Petrohawk Operating Company  
1100 Louisiana  
Suite 4400  
Houston, Texas 77002

**Surface Owner**

Merchants Livestock Company  
P.O. Box 1166  
Carlsbad, New Mexico 88220

**Additional Notice**

New Mexico State Land Office  
P.O. Box 1148  
Santa Fe, New Mexico 87504-1148

Oil Conservation Division (Hobbs Office)  
1625 N. French Drive  
Hobbs, New Mexico 88240

Form C-108  
Melrose Operating Company  
Jalmat Field Yates Sand Unit Wells No. 179, 185, 195, 222 and 250  
Sections 13 & 14, T-22 South, R-35 East, NMPM,  
Lea County, New Mexico

***Legal notice will be published on September 26, 2008 in the:***

*Hobbs News Sun  
201 N. Thorp  
Hobbs, New Mexico 88240*

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<b>JFYSU Well No. 185</b>	<b>692' FNL &amp; 2089' FEL (Unit B) Section 13, T-22S, R-35E Injection Interval: 3,662'-3,904' Tansill-Yates-Seven Rivers</b>
<b>JFYSU Well No. 195</b>	<b>1970' FNL &amp; 448' FEL (Unit H) Section 14, T-22S, R-35E Injection Interval: 3,829'-4,035' Tansill-Yates-Seven Rivers</b>
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**Produced water from the Jalmat Oil & Gas Pool and source water from the Santa Rosa formation will be injected into the wells at average and maximum rates of 500 and 1,500 barrels of water per day, respectively. The average and maximum surface injection pressure for each well is anticipated to be 1,132 psi and 2,000 psi, respectively.**

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**Additional information can be obtained by contacting Mr. Tony Beilman, Operations Manager, Melrose Operating Company, at (469) 721-2046.**

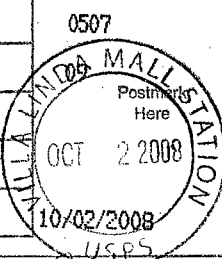
**Note: Original publication will be forwarded to the Oil Conservation Division when published.**

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Return Receipt Fee (Endorsement Required)	\$ 2.20
Restricted Delivery Fee (Endorsement Required)	\$ 0.00
Total Postage & Fees	\$ 9.70

Sent To *Merchants Livestock Co.*Street, Apt. No.,  
or PO Box No. *P.O. Box 1166*City, State, ZIP+4 *Carlsbad, N.M. 88220*

PS Form 3800, June 2002

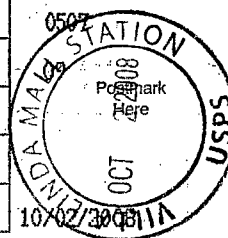
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HOUSTON, TX 77210

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Certified Fee	\$ 2.70
Return Receipt Fee (Endorsement Required)	\$ 2.20
Restricted Delivery Fee (Endorsement Required)	\$ 0.00
Total Postage & Fees	\$ 9.70

Sent To *Cherren USA, Inc.*Street, Apt. No.,  
or PO Box No. *Box 4791*City, State, ZIP+4 *Houston, Texas 77210-4791*

PS Form 3800, June 2002

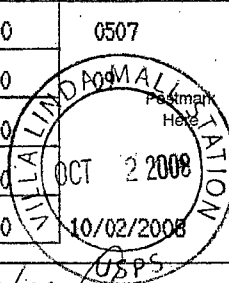
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Restricted Delivery Fee (Endorsement Required)	\$ 0.00
Total Postage & Fees	\$ 9.70

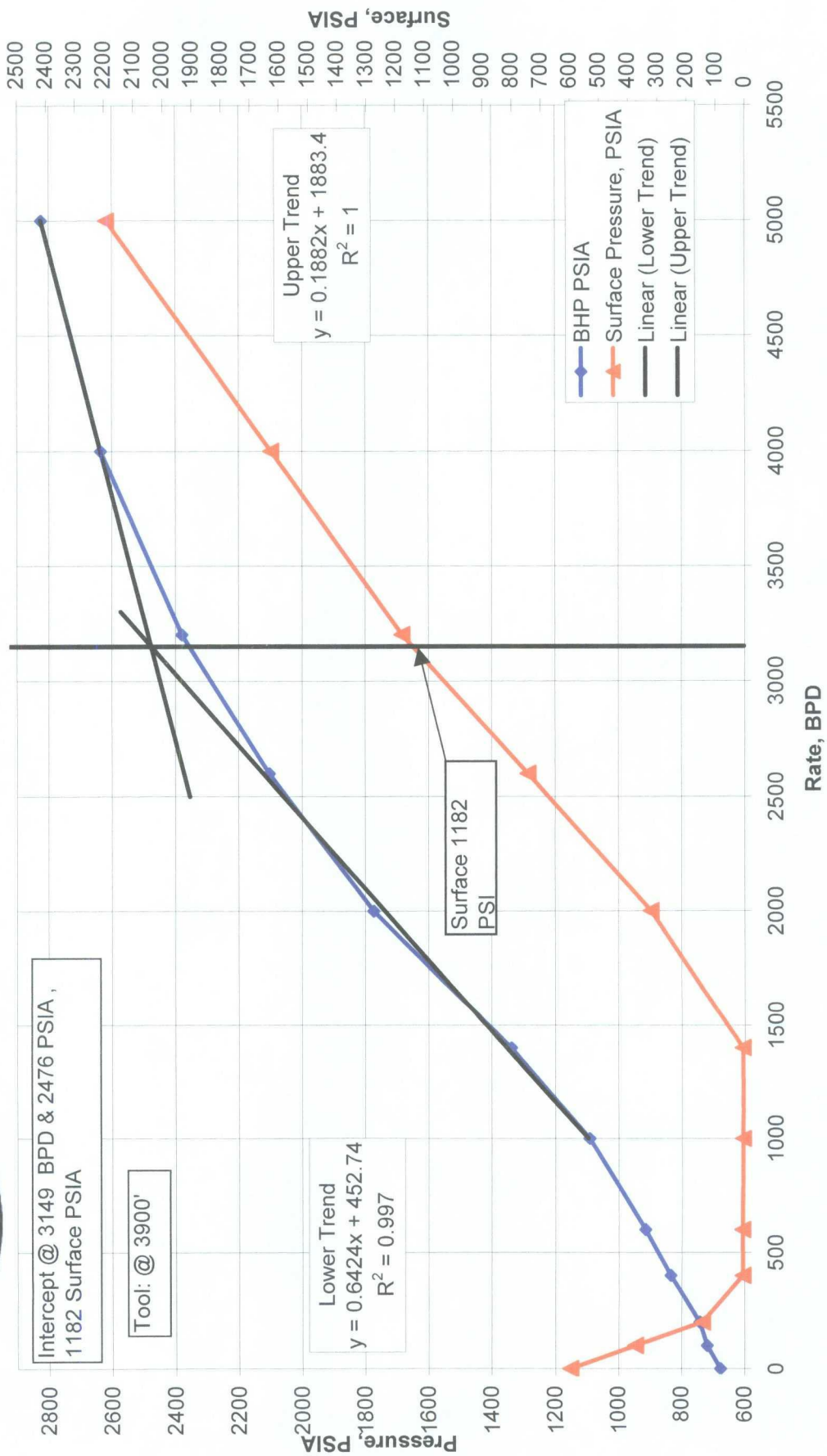
Sent To *Petrohawk Operating Co.*Street, Apt. No.,  
or PO Box No. *1100 Louisiana Suite 4400*City, State, ZIP+4 *Houston, Texas 77002*

PS Form 3800, June 2002

See Reverse for Instructions

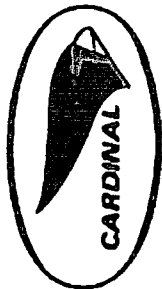


Melrose Operating Jal Mat # 195  
Step Rate Test 07-11-2008



# Step Rate Test

Melrose Operating  
Jal Mat # 195  
Field: Jal Mat  
Lea County, NM



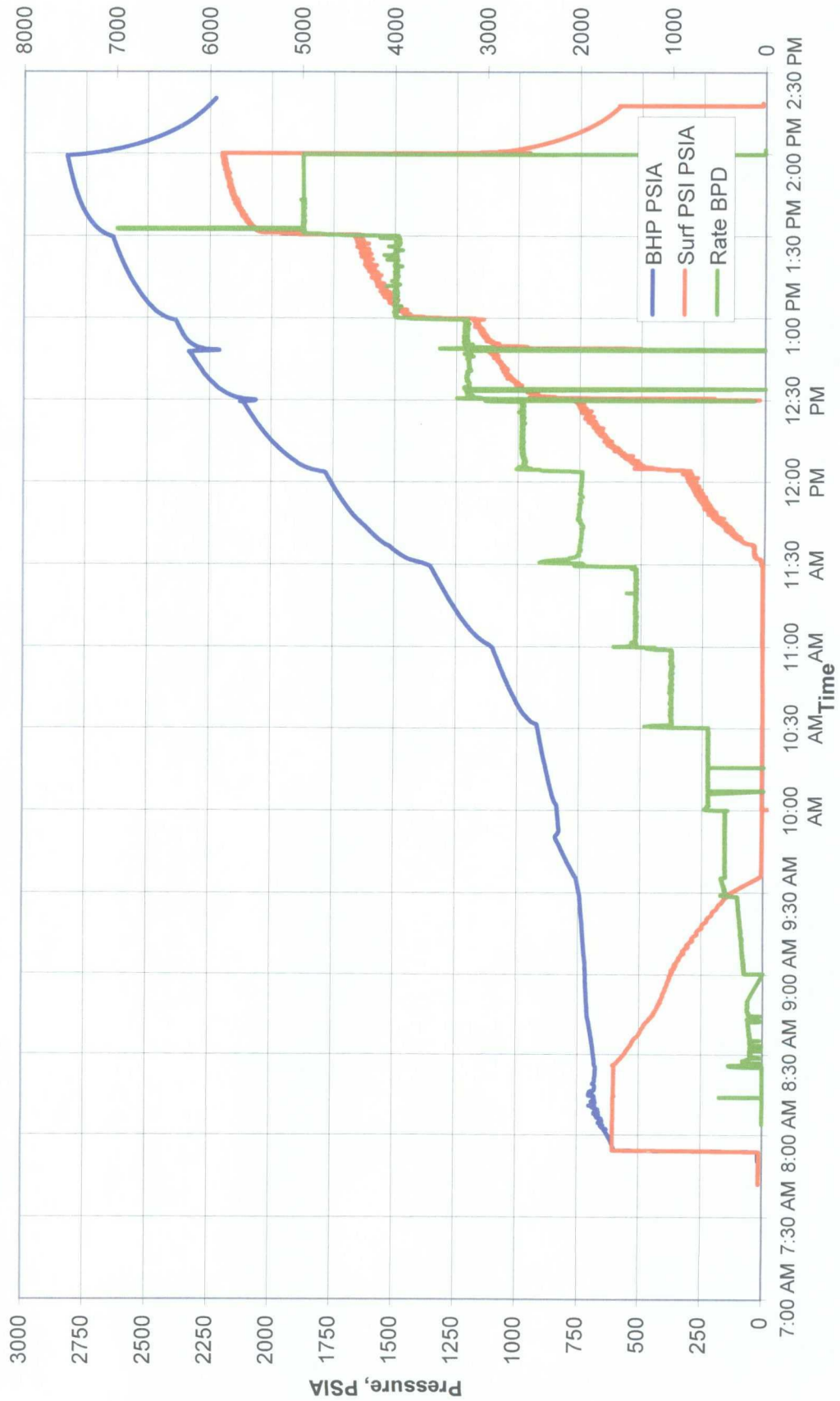
	S Time	E Time	D Time Min	Last Rate BPD	Step BPD	B. H. Pressure PSIA	Surf PSIA	Cum BBL	Delta BBL	Avg. BPD	Lower Trend	Upper Trend
1	8:13 AM	8:30 AM	17	0	0	676.5	600	0	0	0		
2	8:30 AM	9:00 AM	30	100	100	718.5	376.3	3.7	3.7	178		
3	9:00 AM	9:30 AM	30	200	100	742.5	144.7	8.3	4.6	221		
4	9:30 AM	10:00 AM	30	400	200	834.8	5.1	17.3	9	432		
5	10:00 AM	10:30 AM	30	600	200	915.8	6.9	29.9	12.6	605		
6	10:30 AM	11:00 AM	30	1000	400	1091.8	5.3	49.9	20	960	1091.8	
7	11:00 AM	11:30 AM	30	1400	400	1338.7	7.3	78.2	28.3	1358	1338.7	
8	11:30 AM	12:00 PM	30	2000	600	1773.5	322.4	126.8	48.6	2333	1773.5	
9	12:00 PM	12:30 PM	30	2600	600	2104	744.8	173.4	46.6	2237	2104	
10	12:30 PM	1:00 PM	30	3200	600	2379.5	1177.9	238	64.6	3101		
11	1:00 PM	1:30 PM	30	4000	800	2636.2	1627.8	323.2	85.2	4090		2636.2
12	1:30 PM	2:00 PM	30	5000	1000	2824.4	2193.3	427.4	104.2	5002		2824.4
13	2:00 PM	2:30 PM	30	0	-5000	2281	591	427.4	0	0		

0.6424 452.7  
0.1882 1883.4

int point: 3149.9339 BPD  
2476.2176 Psia

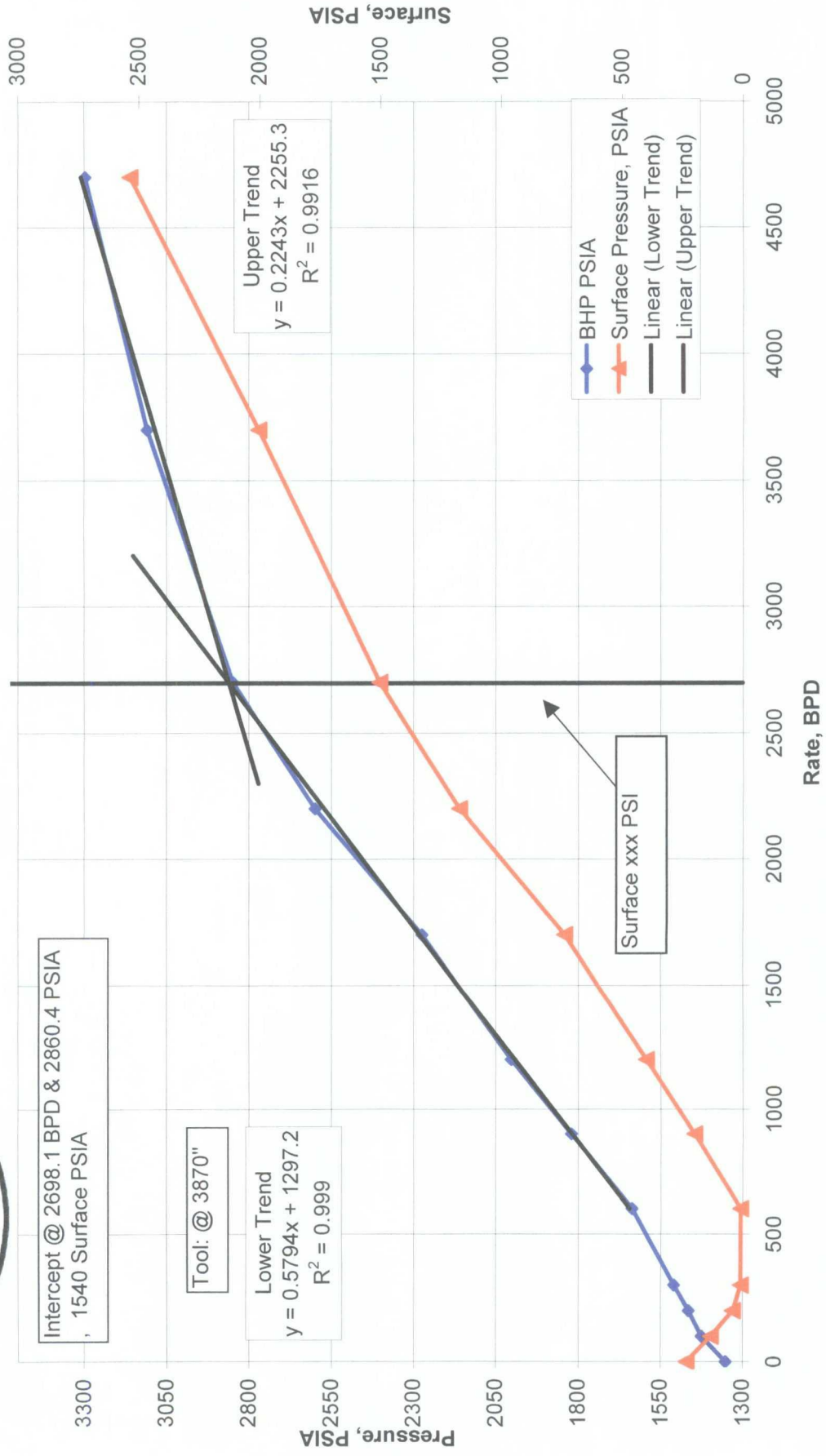


Melrose Operating Jal Mat # 195  
Step Rate Test 07-11-2008





Melrose Operating Jal Mat # 222  
Step Rate Test 07-08-2008



# Step Rate Test

Melrose Operating  
Jal Mat # 222  
Field: Jal Mat  
Lea County, NM



	S Time	E Time	D Time	Last Rate	Step	B. H. Pressure	Surf	Cum	Delta	Avg.	Lower	Upper
			Min	BPD	BPD	PSIA	PSIA	BBL	BBL	BPD	Trend	Trend
1	10:49 AM	11:00 AM	11	0	0	1352	232.6	0	0	0		
2	11:00 AM	11:30 AM	30	100	100	1425.3	132.2	3.9	3.9	187		
3	11:30 AM	12:00 PM	30	200	100	1464.6	40.7	8.2	4.3	206		
4	12:00 PM	12:30 PM	30	300	100	1510.4	8.3	13.8	5.6	269		
5	12:30 PM	1:00 PM	30	600	300	1637.9	8	26.6	12.8	614	1637.9	
6	1:00 PM	1:30 PM	30	900	300	1821.1	200.5	46.9	20.3	974	1821.1	
7	1:30 PM	2:00 PM	30	1200	300	2003.9	399.6	71.1	24.2	1162	2003.9	
8	2:00 PM	2:30 PM	30	1700	500	2275	738.9	105.5	34.4	1651	2275.3	
10	3:00 PM	3:30 PM	30	2200	500	2600.1	1173	186.2				
11	3:30 PM	4:00 PM	30	2700	1000	2848.9	1503.5	243.4	57.2	2746		2848.9
12	4:00 PM	4:30 PM	30	3700	1000	3108.8	2004	319	75.6	3629		3108.8
13	4:30 PM	5:00 PM	30	4700	1000	3297.4	2535.6	418	99	4752		3297.4
14	5:00 PM	5:15 PM	15	0	-4700	2836.1	1141.8	418	0	0		

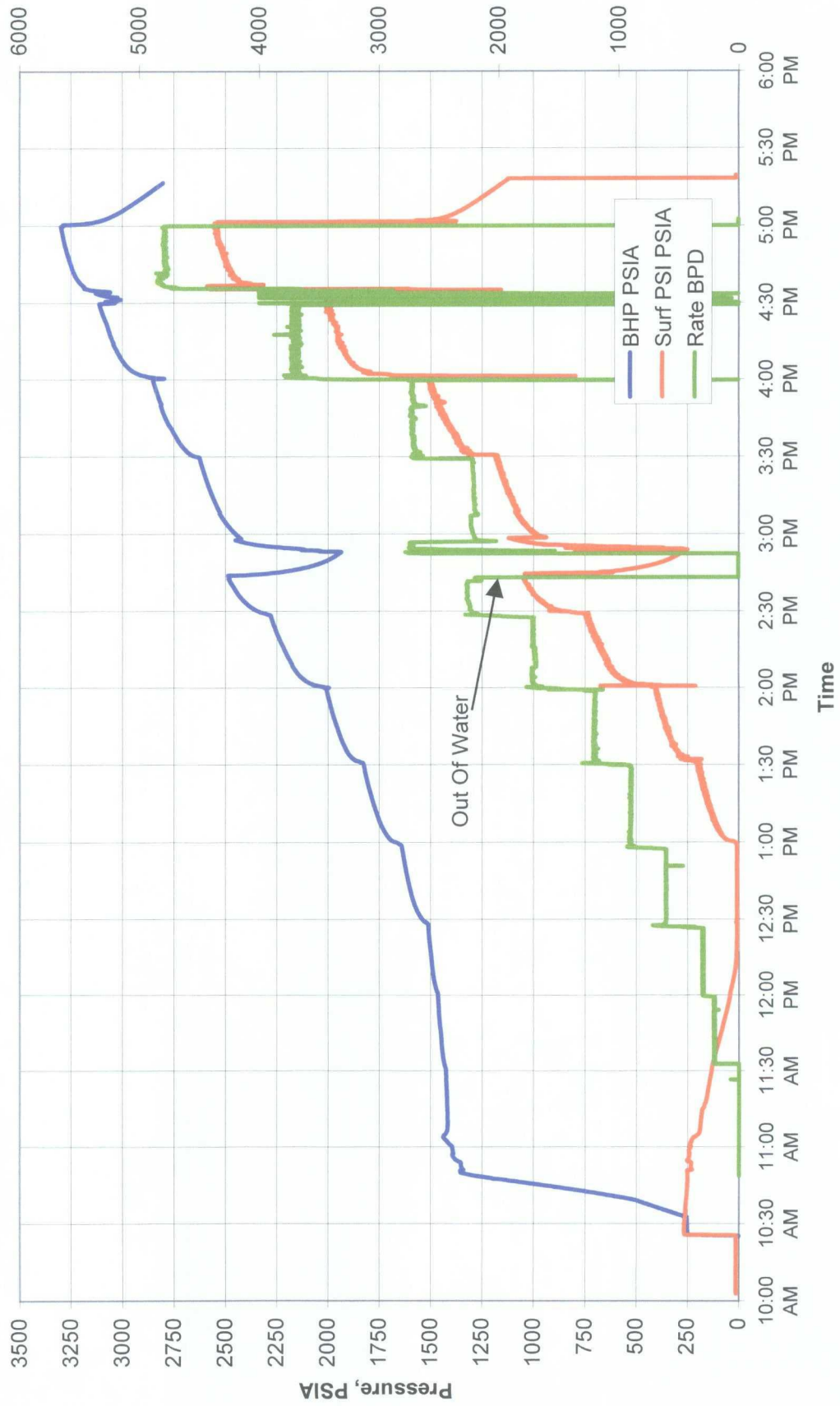
0.5794 1297.2  
0.2243 2255.3

int point: 2698.1132 BPD  
2860.4868 Psia





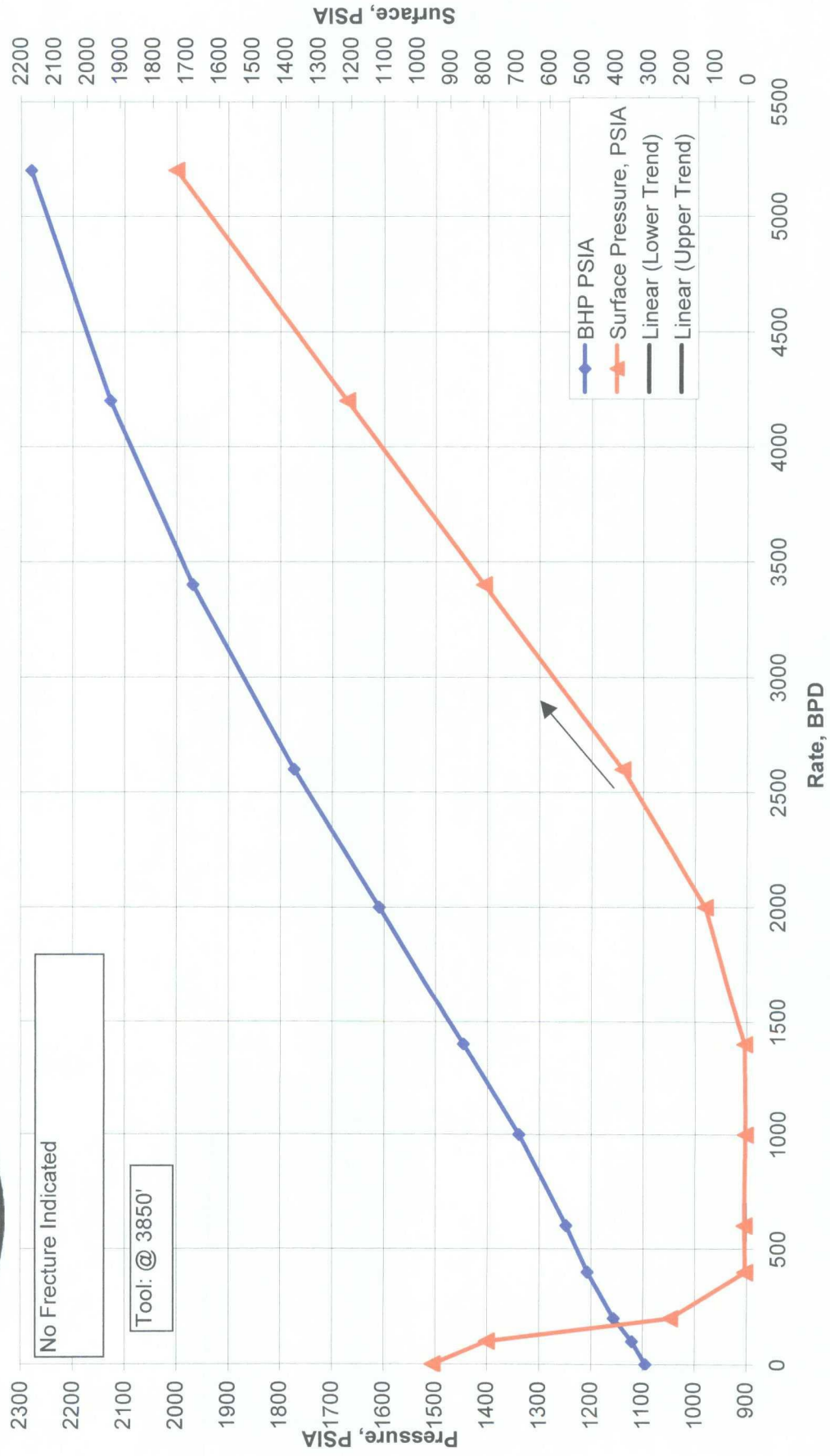
Melrose Operating Jal Mat # 222  
Step Rate Test 07-08-2008





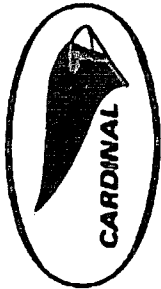
Melrose Operating Jal Mat #  
Step Rate Test 07-14-2008

250



# Step Rate Test

Melrose Operating  
Jal Mat # 250  
Field: Jal Mat  
Lea County, NM



	S Time	E Time	D Time	Last Rate	Step	B. H. Pressure	Surf	Cum	Delta	Avg.	Lower	Upper
			Min	BPD	BPD	PSIA	PSIA	BBL	BBL	BPD	Trend	Trend
1	9:25 AM	9:45 AM	20	0	0	1095.3	950.8	0	0	0		
2	9:45 AM	10:15 AM	30	100	100	1121.6	786.4	4.2	4.2	202		
3	10:15 AM	10:45 AM	30	200	100	1156.9	231.7	10.2	6	288		
4	10:45 AM	11:15 AM	30	400	200	1207.4	5.3	18.2	8	384		
5	11:15 AM	11:45 AM	30	600	200	1248.6	7.1	30	11.8	566		
6	11:45 AM	12:15 PM	30	1000	400	1339.6	4.5	49.8	19.8	950		
7	12:15 PM	12:45 PM	30	1400	400	1446.7	6.6	79.2	29.4	1411		
8	12:45 PM	1:15 PM	30	2000	600	1609.3	126.9	121.3	42.1	2021		
9	1:15 PM	1:45 PM	30	2600	600	1773.8	377.5	173.9	52.6	2525		
10	1:45 PM	2:15 PM	30	3400	800	1969.5	797.1	241.3	67.4	3235		
11	2:15 PM	2:45 PM	30	4200	800	2127.5	1212.2	328.4	87.1	4181		
12	2:45 PM	3:15 PM	30	5200	1000	2280.6	1728.5	441	112.6	5405		
13	3:15 PM	3:30 PM	15	0	-5200	1826.7	158	441	0	0		

1.2745 1226.7  
0.136 2353.8

int point: 989.98682 BPD  
2488.4382 Psia

**Jones, William V., EMNRD**

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**From:** Jones, William V., EMNRD  
**Sent:** Saturday, October 18, 2008 1:55 PM  
**To:** 'trinityengineering@sbcglobal.net'  
**Cc:** Ezeanyim, Richard, EMNRD; Kautz, Paul, EMNRD  
**Subject:** Injection application from Melrose: Jalmat Field Yates Sand Unit (5 wells)

Hello Mr. Tony Beilman:  
Thank you for this application.

Releasing it today - Mark will likely sign it on Monday.

I reviewed the well files for these 5 newly drilled wells that are to be used as injection wells and wanted to pass on some comments.

The 179 and 250 wells are still lacking the final Sundry form (in our imaging system) reported to the Hobbs office showing the completion of the drilling with the details such as depth, hole size, casing size and depth and location of DV tool (if present) and cementing details. Please send these if you haven't already.

Noticed that the lite weight lead cement does not seem to provide much bond - according to your CBL's or it may be disappearing into thief zones or into the Salt. The final stage cement seems OK. Well No. 250 had very poor cement throughout - except for some lower intervals, but this well seemed to be the worst.

Your Sundry ("intentions") usually mentions the intent to run open hole logs but I see only cased hole logs on at least two of these wells - I assume you had some hole problems and had to get pipe in the hole Asap?

Well No. 222 has no logs showing in our imaging system - please send them to Hobbs if you haven't already.

The submitted wellbore diagrams mostly had the "intended" cement coverage - I made notes of the actual cement tops as I could read them off the actual records and the CBLs.

Your submitted Step Rate Test maximum pressures were modified to reflect my interpretation of the results and to provide our normal 50 psi (surface) safety factor. This is obviously a judgement call and we know you want to get water fillup as soon as possible to get waterflood response and recovery at the same time without fracturing the formation and ruining the sweep and conformance and costing reserves. If you really insist on higher injection pressures than these allowed, you could submit Step Rate Tests with accompanying PTA analysis between steps to support the discovery of the fracturing pressure or the point at which linear flow occurs.

As you probably know, the permitted injection interval should always be within the Unitized interval as defined on R-2235, so be aware as you develop this project of the upper and lower boundaries of the defined Unit. The only reason I am mentioning this is that we are having many old waterfloods being re-activated with new operators, and some seem to ignore the defined limits of the statutory unit - so correlative rights are sometimes violated.

Regards,

William V. Jones PE  
New Mexico Oil Conservation Division  
1220 South St. Francis  
Santa Fe, NM 87505  
505-476-3448

10/18/2008

# Injection Permit Checklist (7/8/08)

Case 5 R- WFX 041 PMX 10/18/08 IPI 10/18/08 Permit Date 10/18/08 UIC Qtr 10/18/08

# Wells 5 Well Name: JF YSU # 179, 185, 195, 222, 250

API Num: (30-) 2008 Spud Date: 2008 New/Old: N (UIC primacy March 7, 1982)

Footages 13/14 Unit 225 Sec 35E Tsp Lea Rge Lea County Lea

Operator: Melrose Operating Company Contact Tony Biehlman

OGRID: 184860 RULE 40 Compliance (Wells) 0/459 (Finan Assur) OK

Operator Address: 1000 W. WILSHIRE, SUITE 223, OKC, OK, 73116

SLO

Current Status of Well: \_\_\_\_\_

Planned Work to Well:		Planned Tubing Size/Depth:		
	Sizes Hole.....Pipe	Setting Depths	Cement Sx or Cf	Cement Top and Determination Method
Existing _____ Surface				
Existing _____ Intermediate				
Existing _____ Long String				

DV Tool \_\_\_\_\_ Liner \_\_\_\_\_ Open Hole \_\_\_\_\_ Total Depth \_\_\_\_\_ PBTD \_\_\_\_\_

Well File Reviewed \_\_\_\_\_

Diagrams: Before Conversion \_\_\_\_\_ After Conversion \_\_\_\_\_ Elogs in Imaging File: \_\_\_\_\_

Intervals:	Depths	Formation	Producing (Yes/No)
Above (Name and Top)			
Above (Name and Top)			
Injection.....			
Interval TOP:			
Injection.....			
Interval BOTTOM:			
Below (Name and Top)			

Case 2546  
Jalmar Field Yates Sand UMT  
W.F. Project  
R-2243/R-2235  
PSI Max. WHIP See WFX-821

Open Hole (Y/N) \_\_\_\_\_  
Deviated Hole? Jalmar (Tosell) Yates 7 RV 85 01/GM 101

**Sensitive Areas:** Capitan Reef \_\_\_\_\_ Cliff House \_\_\_\_\_ Salt Depths \_\_\_\_\_

.... Potash Area (R-111-P) \_\_\_\_\_ Potash Lessee \_\_\_\_\_ Noticed? \_\_\_\_\_

**Fresh Water:** Depths: 0-200' Wells(Y/N) Yes Analysis Included (Y/N): Yes Affirmative Statement ✓

**Salt Water:** Injection Water Types: RE-injection Analysis? 80,968 (33820)

**Injection Interval:** ....Water Analysis: \_\_\_\_\_ Hydrocarbon Potential \_\_\_\_\_

**Notice:** Newspaper(Y/N) ✓ Surface Owner Merchandise Water Co Mineral Owner(s) SLO

RULE 701B(2) Affected Parties: Cherry/Petrol

**Area of Review:** Adequate Map (Y/N) \_\_\_\_\_ and Well List (Y/N) \_\_\_\_\_

Active Wells 50 Num Repairs 0 Producing in Injection Interval in AOR Yes

..P&A Wells 15 Num Repairs 0 All Wellbore Diagrams Included? Yes

**Questions to be Answered:**

**Required Work on This Well:** \_\_\_\_\_ Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_

**AOR Repairs Needed:** \_\_\_\_\_ Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_

\_\_\_\_\_ Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_