STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONEY ANAYA
GOVERNOR

50 YEARS
1935 - 1985

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

April 22, 1985

Maralo, Inc.
P.O. Box 832
Midland, Texas 79701

Attention: Brenda Coffman
Agent

Re: Jalmat Yates Unit Well
Nos. 1 and 2
Sec. 12, T-25S, R-36E
Lea County, Waterflood
Expansion Application
Case No. 8584

Dear Ms. Coffman:

Per our telephone conversation, Friday, April 19, 1985, concerning the above-described Waterflood Expansion Application, it is my understanding in this matter that Maralo, Inc. wishes to delete from consideration the use of Well No. 1 as an injection well. Doyle Hartman objected to only that portion of this application seeking the conversion of Well No. 1, hence, this application was docketed for hearing which now has been dismissed. However, Maralo, Inc. still seeks the approval to expand the Maralo Jalmat Unit to convert only Well No. 2 to an injection well since Doyle Hartman has no objection (see Doyle Hartman's letter dated March 26, 1985 and per a telephone conversation with Michelle Hembree) this well will be considered administratively.

If this is not the case, please contact me. Thank you.

Sincerely,

MICHAEL E. STOGNER
Chief Hearing Officer

MES/dp

cc: Doyle Hartman
Dan Nutter

DOYLE HARTMAN
Oil Operator
500 N. MAIN
P.O. BOX 10426
MIDLAND, TEXAS 79702
(915) 684-4011

March 26, 1985

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501

Case 8584

Re: Maralo's Jalmat Yates Unit
Division Order #R-5816
Well Nos. 1 & 2
Section 12, T-25-S, R-36-E
Lea County, New Mexico

Gentlemen:

Reference is made to Maralo's application to inject water for purposes of secondary recovery in the above-referenced wells in the Jalmat Yates Unit.

We have no objection to the injection of water into the Jalmat Yates Unit No. 2 well which appears to be located 2310' FSL and 1650' FEL Section 12, T-25-S, R-36-E, Lea County, New Mexico. However, the Jalmat Yates Unit No. 1 well, located 2310' FSL and 330' FEL (I) Section 12, T-25-S, R-36-E is a short 933' diagonal from our Etz No. 2 well (not shown on Maralo's plat) located 2310' FNL and 330' FWL (E) Section 7, T-25-S, R-37-E, and the proposed injection interval in the No. 1 well is the same as the producing interval in our Etz No. 2. Injection of water in the same interval would cause premature abandonment of our Etz No. 2 due to excessive water production, and would deny us the right to produce any remaining recoverable reserves, and would therefore interfere with our correlative rights.

However, if Maralo is in need of an additional water injection well, we would not have any opposition to Maralo drilling an injection well at a location consisting of approximately 1650' FSL and 330' FEL of Section 12. An injection well at this location would fit the pattern Maralo has already established for water injection in the Jalmat Yates Waterflood, and the well would still be located far enough from our Etz No. 2 to prevent interference in the production of any remaining recoverable reserves from our well. By copy of this letter, we are informing Maralo that we would be happy to meet with Maralo to work out a satisfactory solution.

We further request that we be notified in the event any work is done on the Malmat Yates Unit No. 2. Thank you for your consideration.

Very truly yours,

DOYLE HARTMAN

Michelle Hembree

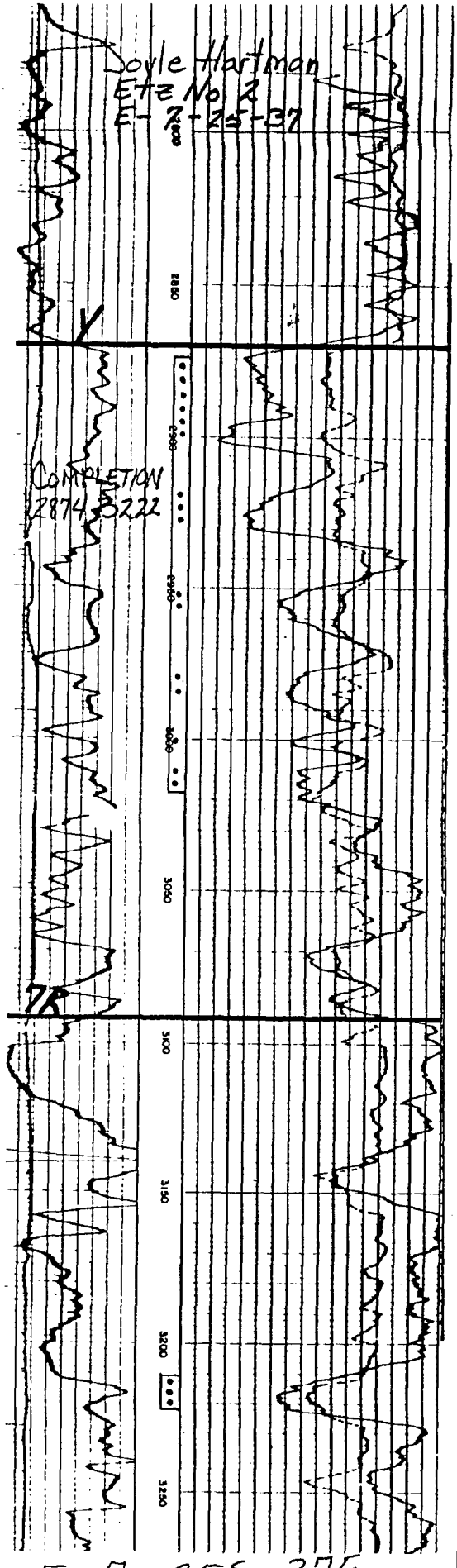
Michelle Hembree
Administrative Assistant

MH/dm

Enclosure

cc: Maralo, Inc.
Post Office Box 832
Midland, Texas

Attention: Ms. Brenda Coffman



COMPANY Doyle Hartman

WELL Etz No. 2

FIELD Jalmat (Oil)

LOCATION 2310 FNL & 430 FWL (E)
Section 7, T-25-S, R-37-E
(25-37-7-E)

COUNTY LEA

STATE NEW MEXICO

ELEVATIONS: KB 3166
DF
GL

COMPLETION RECORD

SPUD DATE 9-19-78 COMP. DATE 10-18-78

TD 3560 PBTD 3520

CASING RECORD 8 5/8 @ 294 w/225
5½ @ 3557 w/750

PERFORATING RECORD Perf: 2874-3222 w/21

STIMULATION A/6000
SWF/60,000 + 80,000

IP IPF = 15 BOPD + 72 BWPD + 400 MCFPD

GOR 26,666 GR 35

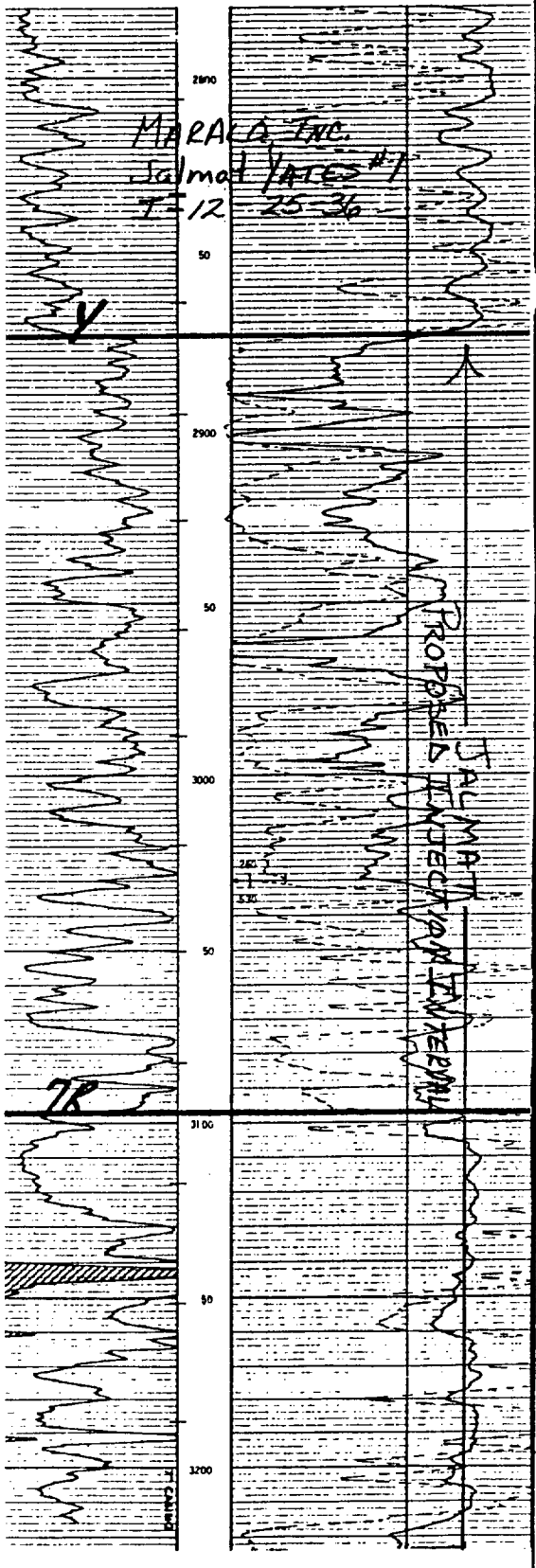
TP 50 CP 50

CHOKE 40/64 TUBING 2 3/8 @ 3407

REMARKS (10 x 86 x 1½)

8-1984 Cum Prod: 7.1 MBO
267.0 MMCF
62.8 MBW

1984 Avg. Prod: 2.4 BOPD
88.3 MCFPD
15.0 BWPD



COMPANY MARALO, INC.

WELL Jalmat YATES No. 1

FIELD Jalmat

LOCATION 2310 FSL & 330 FEL (I)
Section 12, T-25-S, R-36-E

COUNTY LEA

STATE NEW MEXICO

ELEVATIONS: KB

DF 3158

GL

COMPLETION RECORD

SPUD DATE 1-1-51 COMP. DATE 3-8-51

TD 3040 PBTD

CASING RECORD 10¾ @ 600 W/300
7 @ 2915 W/350

PERFORATING RECORD OH: 2915 - 3040

STIMULATION NATURAL

IP IPF = 72 BOPD

GOR GR 37

TP 60 CP 300

CHOKE 3/4 TUBING 2 @ 2860

REMARKS

I-12-25-36

February 18, 1985

Case 8584

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Re: Jalmat Yates Unit, Div. Order # R-5816
Well No's. 1 & 2
Section 12, T-25-S, R-36-E
Lea County, New Mexico

Dear Sir:

Attached for your consideration is Maralo's application for administrative approval to inject water for purpose of secondary recovery in the above referenced wells in the Jalmat Yates Unit.

Well number 1 is currently producing 2 BOPD + 83 BWPD and well number 2 is currently producing 4 BOPD + 60 BWPD. It is our proposal that the wells be re-completed from oil wells to water injection wells. The wells will serve the unit more effectively flooding the north end of the unit. The oil swept by this injection that is produced by other producers will more than compensate for the small production lost by converting the wells. Injection will be limited to the top 100' of the Yates which occurs at 2860'. The average injection pressure will be 100 psi with a maximum of 600 psi and injection will be at an average daily rate of 500 barrels of water with a maximum of 1,000 barrels of water per day. The system will be a closed system and the source of water to be injected will be produced from water supply wells located within a mile of the injection wells. The water supply wells are spotted on the attached map in red. A chemical analysis of fresh water from the supply wells is attached.

The Yates zone (the zone of injection) is made up of several series of sand, shale and carbonates and is approximately 300' thick. The overlying sources of underground drinking water can be found at a total depth of 525'.

The zone of injection will be stimulated by acidizing with approximately 3000 gals 15% NE acid.

All logs for the wells have been previously submitted to the New Mexico Oil Conservation Commission. If there are any questions or you need any further information, please let me know.

Yours truly,

Brenda Coffman

Brenda Coffman
Agent

BC

March 18, 1985

I, Brenda Coffman, do hereby certify that a copy of our Application For Authorization To Inject for purpose of secondary recovery (Form C-108) has been sent by way of certified mail to the surface owner and each of the Leasehold Operators per the attached list. A copy of the certified receipt is attached.

Jalmat Yates Unit, Division Order # R-5816
Well #'s 1 & 2
Section 12, T-25-S, R-36-E
Lea County, New Mexico

Brenda Coffman

Brenda Coffman, Agent

JALMAT YATES UNIT
WELL NO'S 1 & 2
LEA COUNTY, NEW MEXICO

SURFACE OWNER

J. F. Bryant, etal
Drawer D
Jal, New Mexico 88252

LEASEHOLD OPERATORS WITHIN ½ MILE RADIUS

Doyle Hartman
P. O. Box 10426
Midland, Texas 79701

Arco Oil & Gas Company
P. O. Box 1610
Midland, Texas 79702

Conoco, Inc.
P. O. Box 2197
Houston, Texas 77252

Tenneco Oil Exploration & Production
1010 Milam
P.O. Box 2511
Houston, Texas 77001

Worldwide Energy Corp.
One United Bank Center
1700 Lincoln, Ste. 4400
Denver, Colorado 80203

Dalport Oil Corporation
3471 First National Bank Building
Dallas, Texas 75202

Flag Redfern Oil Company
P. O. Box 11050
1200 Wall Towers West
Midland, Texas 79702

Tahoe Oil & Cattle Company
P. O. Box 3084
4402 W. Industrial
Midland, Texas 79702

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

FORM C-108
Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: [X] Secondary Recovery [ ] Pressure Maintenance [ ] Disposal [ ] Storage
Application qualifies for administrative approval? [X] yes [ ] no

II. Operator: Maralo, Inc.

Address: P. O. Box 832, Midland, Texas 79702 0832

Contact party: Brenda Coffman Phone: 915 684-7441

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? [X] yes [ ] no
If yes, give the Division order number authorizing the project R-5816.

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 geological data on the injection zone including appropriate lithologic detail, geological 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 source 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 source of drinking water.

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

XIV. Certification

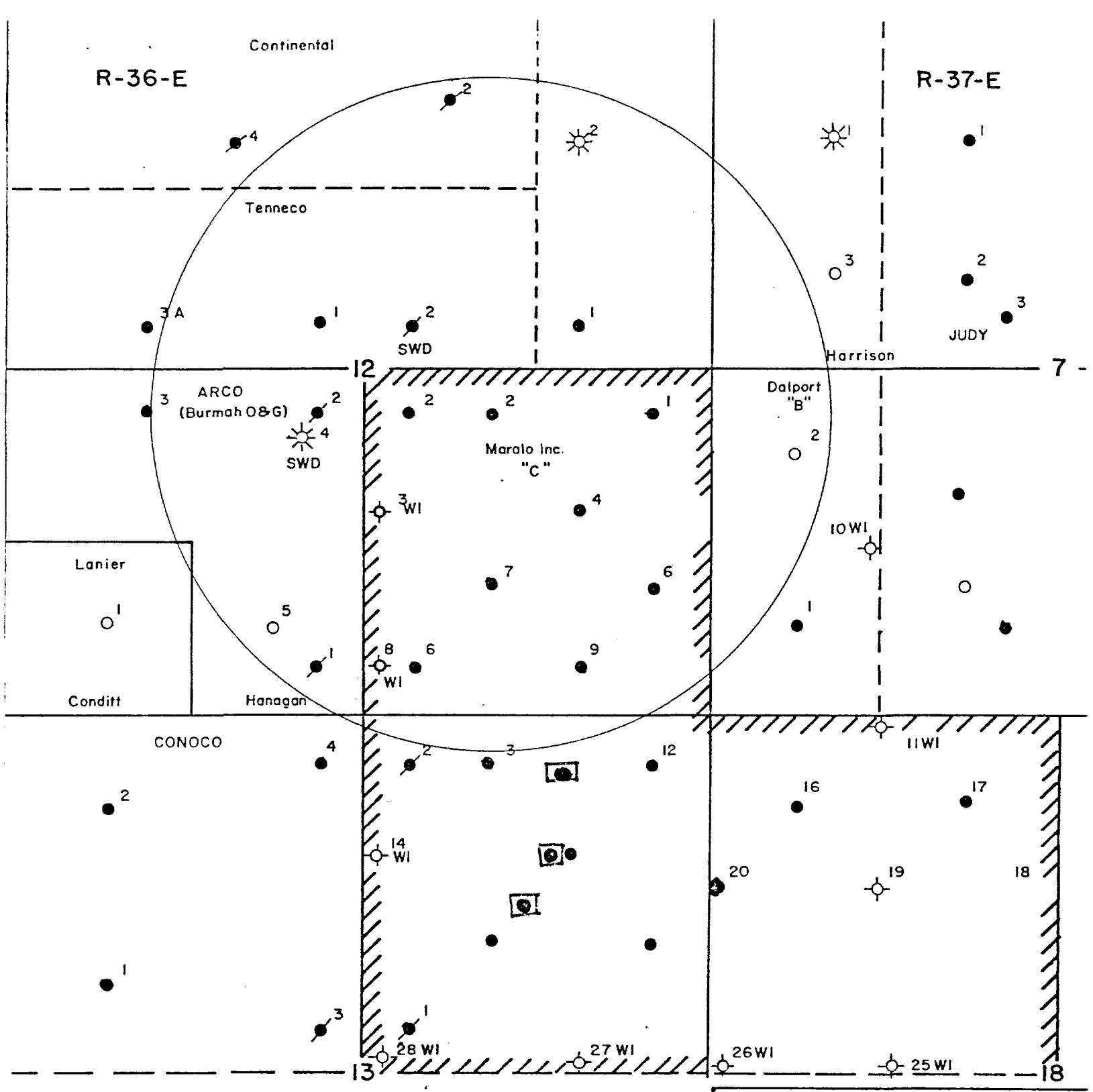
I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Brenda Coffman Title Agent

Signature: Brenda Coffman Date: 3-18-85

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

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.



LEGEND

/// JALMAT WATERFLOOD UNIT BORDER

WI WATER INJECTOR

WATER SUPPLY WELL

MARALO INC.

PROPOSED CONVERSION OF WELL NO. 2 TO WATER INJECTION JALMAT WATERFLOOD UNIT LEA COUNTY, NEW MEXICO

DATE. 1-20-85	DRWN.BY: FALCON
SCALE: 1" = 1000'	DRWG. NO. M-334

AFFIDAVIT OF PUBLICATION

State of New Mexico,

County of Lea.

I, Robert L. Summers

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

of One weeks.

Beginning with the issue dated November 5, 19 84

and ending with the issue dated November 5, 19 84

Robert L. Summers
Publisher.

Sworn and subscribed to before me this 15 day of January, 19 85

Vera Murphy
Notary Public.

My Commission expires Nov. 14, 1988
(Seal)

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
November 5, 1984

NOTICE OF APPLICATION FOR APPROVAL TO INJECT WATER FOR PURPOSE OF SECONDARY RECOVERY,

Maralo, Inc. of P.O. Box 832, Midland, Texas 79702, Telephone #915 684-7441, is applying to the Oil Conservation Commission for a permit to inject water into the Jalmat Yates Unit Well #2, for the purpose of secondary recovery. The well is located in the NW/4 of the SE/4 of Section 12, T-25-S, R-36-E, Lea County, New Mexico, and is 2310' FNL and 330' FEL of the section. Injection will occur at a depth of from 2917 to 3010 in the Yates formation; with a maximum injection rate of 500 B/day and a pressure of 1000 psi.

Interested parties must file objections or requests for hearing with the Oil Conservation Dvision, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

Martin Water Laboratories, Inc.
WATER CONSULTANTS SINCE 1953
BACTERIAL AND CHEMICAL ANALYSES

P. O. BOX 1468
ONAHANS, TEXAS 79756
943-3234 OR 563-1040

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

November 11, 1980

Mr. R. A. Lowery
Maralo, Inc.
P.O. Box 832
Midland, TX 79702

Subject: Recommendations relative to analysis #118064 (11-11-80) - Jalmat Yates Unit.

Dear Mr. Lowery:

The objective of this analytical study is to evaluate the compatibility potential between the three waters represented. The factors of concern in this regard are as follows:

1. We have encountered a comparatively high pH level in the Jalmat Yates which we question is representative of the natural water. We also suspect the Tenneco water has an artificially high pH. This can frequently occur as a result of the loss of carbon dioxide during sampling. The concern here is the potential calcium carbonate scaling tendency of the waters (especially the Jalmat Yates) and consequently the combinations. However, this is not an incompatibility in that a combination of waters would likely have less tendency to scale than the individual water samples herein represented.

2. In our efforts to compare the results to identify any potential incompatibility, we do not see any in these waters. However, this needs to be qualified in that if there is any oxygen in the supply water (which we could not test for on this sample), it will create an incompatibility in the form of oxidation of sulfide in the produced waters which would cause the precipitation of elemental sulfur and greatly accelerate corrosiveness.

In summary of the above, we find the primary concern to be in regard to oxygen in the supply water. If the oxygen is absent or can be chemically eliminated, then we consider the waters clearly compatible.

Very truly yours,

Waylan C. Martin

WCM:md

Oxygen is being controlled by a gas blanket.
Brenda Coffman
12-13-82

P. O. BOX 1468
MCNAMARA, TEXAS 79756
PHONE 943-3234 OR 563-1040

Martin Water Laboratories, Inc

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

LABORATORY NO. 118064 (corrected copy)
SAMPLE RECEIVED 11-10-80
RESULTS REPORTED 11-11-80

TO: Mr. R. A. Lowery
P.O. Box 832, Midland, Texas

COMPANY Maralo, Inc. LEASE Jalmat Yates Unit
FIELD OR POOL Jalmat
SECTION ___ BLOCK ___ SURVEY ___ COUNTY Lea STATE New Mexico
SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Composite supply water - taken from water well supply #1 & #2.
NO. 2 Produced water - taken from Jalmat Yates Unit #1.
NO. 3 Produced water - taken from Tenneco's E. J. wells #3 & #4.
NO. 4 Produced water - taken from Appollo Oil Company's Brown #5-A.

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0020	1.0208	1.0078	1.0057
pH When Sampled				
pH When Received	7.54	8.08	7.50	7.51
Bicarbonate as HCO_3	378	878	1,305	1,903
Supersaturation as $CaCO_3$	14	125	420	250
Undersaturation as $CaCO_3$	-	-	-	-
Total Hardness as $CaCO_3$	268	7,850	2,975	1,680
Calcium as Ca	40	260	780	336
Magnesium as Mg	41	1,750	249	204
Sodium and/or Potassium	189	6,614	1,315	1,678
Sulfate as SO_4	248	2,967	1,691	252
Chloride as Cl	78	12,996	2,131	2,486
Iron as Fe	0.89	2.8	0.30	0.04
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	974	25,525	7,471	6,859
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	0.0	35.0	375	850
Resistivity, ohms/m at 77° F.	8.20	0.290	0.750	0.810
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Carbonate, as CO_3	0	60	0	0

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks: Letter of recommendation attached.

Form No. 3

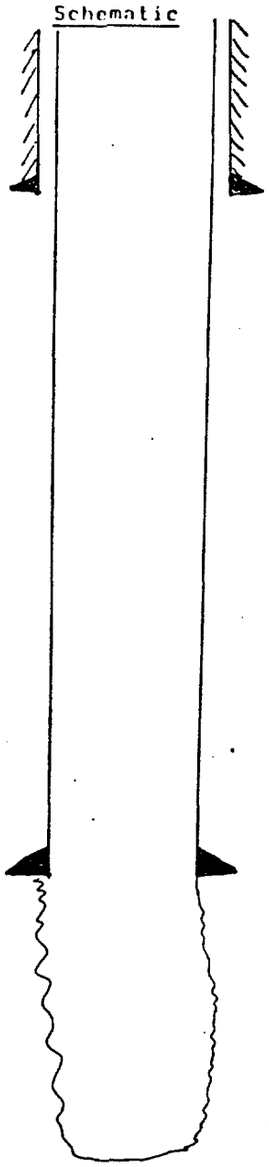
By _____
Waylan C. Martin, M. A.

INJECTION WELL DATA SHEET

INJECTION WELL

OPERATOR	LEASE			
MARALO, INC.	JALMAT YATES UNIT			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
1	2310' FNL & 330' FEL	12	25-S	36-E

Schematic



Tabular Data

Surface Casing

Size 10 3/4" Cemented with 300 sx.

TOC Surface feet determined by observation

Hole size 12"

Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 7" Cemented with 350 sx.

TOC 2808 feet determined by Temp. Survey

Hole size 9"

Total depth 3500'

Injection interval

2917 feet to 3010 feet - open hole
(perforated or open-hole, indicate which)

Tubing size 2 3/8" lined with fiber glass (material) set in a

Baker AD - 1 nickel plated (brand and model) packer at 2800 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Yates

2. Name of Field or Pool (if applicable) Jalmat Yates Unit

3. Is this a new well drilled for injection? [ ] Yes [X] No

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) no

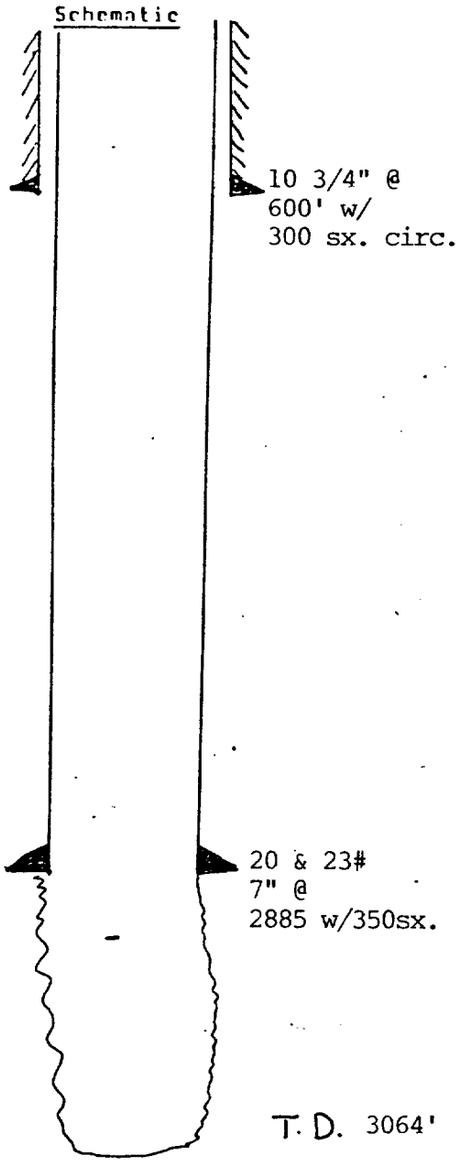
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Seven Rivers (now depleted)

INJECTION WELL DATA SHEET

INJECTION WELL

OPERATOR	LEASE			
MARALO, INC.	JALMAT YATES UNIT			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
2	330' FNL & 1650' FEL	12	25-S	36-E

Schematic



Tubular Data

Surface Casing

Size 10 3/4" Cemented with 250 sx.

TOC Surface feet determined by observation

Hole size 12"

Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 5 1/2" Cemented with 350 sx.

TOC - feet determined by -

Hole size 7"

Total depth 3064'

Injection interval

2917 feet to 3010 feet - open hole
(perforated or open-hole, indicate which)

Tubing size 2 3/8" lined with fiber glass (material) set in a

Baker AD - 1 nickel plated (brand and model) packer at 2800 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Yates

2. Name of Field or Pool (if applicable) Jalmat Yates Unit

3. Is this a new well drilled for injection? [ ] Yes [X] No

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) no

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Seven Rivers (now depleted)

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
Tenneco	E.J.Wells			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
#3	2310'FNL & 990'FWL	12	25-S	36-E

Unit letter"E"

Schematic

Date Completed 10/23/52

Active

Tabular Data

Surface Casing

Size 13 " Cemented with 175 sx.

TOC NA feet determined by NA

Hole size NA

Intermediate Casing

Size 9 5/8 " Cemented with 500 sx.

TOC NA feet determined by NA

Hole size NA

Long string

Size 5 1/2 " Cemented with 100 sx.

TOC NA feet determined by NA

Hole size 7

Total depth 3067

Injection interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size NA lined with NA (material) set in a

NA (brand and model) packer at NA feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) Jalmat

3. Is this a new well drilled for injection? [ ] Yes [X] No

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

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

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
(Sinclair) Maralo	W.F.Hanagan			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
#1	330'FSL & 2310'FWL	12	25-S	36-E

Unit letter "N"

Schematic

Date Completed 10/3/34
Status: P&A 6/18/81

Plugging:

Cleaned out hole to 98'top of 10 3/4" csg.Bridge @675',fishing out junk. Cleaned out to 1500'. Top 7"@ 2447'. Cleaned out to 2477'.Cleaned out to 1500'.Cleaned out to 1500'. Cleaned out to 2800'.Picked up 2 3/8"tbg. & tagged btm@ 3070'.Tagged cement plug @ 3070'.Loaded hole w/brine mud.Pickedup 2 3/8"tbg.to 3070'. Spotted 50 sx. cement w/2% CaCl2. Pld up to 2609'.Pumped 75 sx. cement w/2% CaCl2.Pld 20'jts.WOC 5 hrs. POTT.Drlg.out to 1460'. Pumped 60 sx. cement 2% CaCl2 WOC 4 hrs. hrs.Tried to tag.plug.-No plug@ 1460'.Pumped 70 sx.cement 2% CaCl2 POH.Tagged cement plug @1334'.Went in hole to 1166'.Pmpd.50sx. cmt. 2% CaCl2,pulled up to 124'. Pumped 200 sx cmt.2% CaCl2 cmt.circ.

Tabular Data

Surface Casing

Size 15 1/2" Cemented with 50 sx.

TOC Surface feet determined by circulated

Hole size 19"

Intermediate Casing

Size 10" Cemented with 700 sx.

TOC _____ feet determined by _____

Hole size 12 5/8

Long string

Size 7" Cemented with 125 sx.

TOC squeeze feet determined by NA

Hole size 9 7/8

Total depth 3332

Injection interval

3300 feet to 3320 feet
(perforated or open-hole, indicate which)

Tubing size NA lined with NA (material) set in a

NA (brand and model) packer at NA feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) Jalmat

3. Is this a new well drilled for injection? /_/ Yes /X/ No

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
ARCO O & G Co.	W.F.Hanagan			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
#5	760'FSL & 2080'FWL	12	25-S	36-E

Unit letter "N"

Schematic

Date completed: 5/11/80

Active Oil.

Tabular Data

Surface Casing

Size 8 5/8 " Cemented with 350 sx.

TOC Surface feet determined by Circulated

Hole size 12 1/4

Intermediate Casing

Size 5 1/4 " Cemented with 750 sx.

TOC NA feet determined by NA

Hole size 7 7/8

Long string

Size 2 7/8 " Cemented with -- sx.

TOC NA feet determined by NA

Hole size NA

Total depth 3200

Injection interval

2992 feet to 3042 feet

(perforated or open-hole, indicate which)

Tubing size NA lined with NA (material) set in a

NA (brand and model) packer at 2981' feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) Jalmat

3. Is this a new well drilled for injection? /_/ Yes /X/ No

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
Doyle Hartman	Etz			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
#2	2310'FNL & 430'FWL	7	25-S	37-E

Schematic

Date Completed; 10/18/78

Active Oil

Tabular Data

Surface Casing

Size 8 5/8 " Cemented with 250 sx.

TOC Surface feet determined by _____

Hole size 12 1/4

Intermediate Casing

Size _____ " Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 5 1/2 " Cemented with 750 sx.

TOC _____ feet determined by _____

Hole size 7 7/8

Total depth 3560

Injection interval

2874 feet to 3233 feet
(perforated or open-hole, indicate which)

(Yates-Seven Rivers)

Tubing size _____ lined with _____ (material) set in a

_____ (brand and model) packer at _____ feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) Jalmat

3. Is this a new well drilled for injection? /_/ Yes /X/ No

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
Dalport (Humble)	Clydia C. Winters,etal."B			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
#2	1980'FSL&660'FWL	7	25-S	37-E

Unit letter"L"

Schematic

Date Completed:8/15/51
Status: Active

Tabular Data

Surface Casing

Size 8 5/8" Cemented with 150 sx.

TOC Surface feet determined by Circulated

Hole size 11"

Intermediate Casing

Size _____" Cemented with _____sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 5 1/2" Cemented with 900 sx.

TOC _____ feet determined by _____

Hole size 7 7/8

Total depth 3034

Injection interval

2950 feet to 3034 feet
(perforated or open-hole, indicate which)

Tubing size NA lined with NA (material) set in a

NA (brand and model) packer at NA feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) Jalmat

3. Is this a new well drilled for injection? /_/ Yes /X/ No

If no, for what purpose was the well originally drilled? Oil,Re-classed to Gas, then re-class to Oil 3/1/74

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
Worldwide Energy Corp.	E.J.Wells			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
#1	2310'FNL & 990'FEL	12	25-S	36-E

Unit Letter "H"

Schematic

Date Completed 4/25/52

T & A Status

Tabular Data

Surface Casing

Size 9 5/8 " Cemented with 325 sx.

TOC NA feet determined by NA

Hole size NA

Intermediate Casing

Size 5 1/2 " Cemented with 350 sx.

TOC NA feet determined by NA

Hole size NA

Long string

Size _____ " Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Total depth 3059

Injection interval

2950 feet to 3059 feet

(perforated or open-hole, indicate which)

Tubing size NA lined with NA (material) set in a

NA (brand and model) packer at NA feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) Jalmat

3. Is this a new well drilled for injection? /_/ Yes /X/ No

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
Tenneco Oil Co.	E.J.Wells			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
#1	2310'FNL &2310'FWL	12	25-S,	36-E

Unit letter "F"

Schematic

Date completed 7/5/52
As of 7/18/84,still active.

Tabular Data

Surface Casing

Size 12 1/2 " Cemented with 200 sx.

TOC surfaces feet determined by circulation

Hole size --

Intermediate Casing

Size 9 5/8 " Cemented with 700 sx.

TOC surface feet determined by circulation

Hole size —

Long string

Size 5 1/2 " Cemented with 100 sx.

TOC _____ feet determined by _____

Hole size 7

Total depth 3346

Injection interval

2924 feet to 3051 feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ set in a
(material)

_____ packer at _____ feet
(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) Jalmat

3. Is this a new well drilled for injection? ☐ Yes ☒ No

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
Tenneco	E.J.Wells			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
#2	2310'FNL & 2310' FEL	12	25-S	36-E

Unit Letter"G"

Schematic

Date Completed 12/19/68
This well was completed as an oil well, but after completion allowable was canceled and well was to be held for secondary recovery.
At present this well is a SWD well

Tabular Data

Surface Casing

Size 16 " Cemented with 200 sx.

TOC Surface feet determined by circulated

Hole size --

Intermediate Casing

Size 10 " Cemented with 600 sx.

TOC NA feet determined by NA

Hole size NA

Long string

Size _____ " Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Total depth 3372

Injection interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size NA lined with NA (material) set in a

NA (brand and model) packer at 2800'+ feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) Jalmat

3. Is this a new well drilled for injection? /_/ Yes /X/ No

   If no, for what purpose was the well originally drilled? (Oil), then allowable was canceled,and well was to held for secondary recovery.

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

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
Sinclair O & G Co.	F.Hanagan			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
#2	2310'FSL & 2310'FWL	12	25 -S	36-E

Unit letter "K"

Schematic

Date Completed; 1/9/35
P & A 12/13/79

Plugging

(1) Top of plug 10'.Drlg. & cleaned out to 150'.
(2) Drlg. & cleaned out boards & junk to 180'. Drlg.2' 8 3/4"hole.
(3) Cleaned out 7" csg.from 2300'-2683'.Mixed mud & conditioned hole,Spotted 40 sx.plug from 2683'-2596',87'plug.Spot 60 sx. 2240'.Tagged @2190',top of 7" csg.Spotted additional 40 sx.@ 2190'.Tag-No plug.Spot 30 sx. plug@ 1500' tag. Spot75 sx.plug @1500'-tag.No plug. Spotted 75 sx. plug @ 1500'-tag @1342'(158'plug.) Spot,50 sx. plug @1150 to 1050'.Spot 150 sx. plug @ 200'. POH.Pumped 60 sx. - brough cement to surface.

Tubular Data

Surface Casing

Size 15 1/2 " Cemented with 100 sx.
TOC Surface feet determined by Circulated
Hole size 19

Intermediate Casing

Size 10 " Cemented with 600 sx.
TOC Surface feet determined by Circulated
Hole size 19

Long string

Size 7 " Cemented with 375 sx.
TOC NA feet determined by NA
Hole size 9 5/8
Total depth 3347

Injection interval

3158 feet to 3162 feet
(perforated or open-hole, indicate which)

Tubing size NA lined with NA (material) set in a

NA (brand and model) packer at Na feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) Jalmat

3. Is this a new well drilled for injection? /_/ Yes /X/ No

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
Worldwide Energy,Corp.	E.J.Wells			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
#2	990'FNL & 990'FEL	12	25-S	36-E

Unit letter"A"

Schematic

Date Completed 1/9/35
Active Gas as of this year.

Tabular Data

Surface Casing

Size 9 5/8 " Cemented with 350 sx.

TOC NA feet determined by NA

Hole size NA

Intermediate Casing

Size 5 1/2 " Cemented with 450 sx.

TOC NA feet determined by NA

Hole size NA

Long string

Size --NA " Cemented with NA sx.

TOC NA feet determined by NA

Hole size NA

Total depth 3032

Injection interval

2809 feet to 3032 feet
(perforated or open-hole, indicate which)

Tubing size NA lined with NA (material) set in a

NA (brand and model) packer at NA feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) Jalmat

3. Is this a new well drilled for injection? /7/ Yes /X/ No

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
Worldwide Energy,Corp.	E.J.Wells			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
#3	1650'FNL & 330'FEL	12	25-S	36-E

Unit Letter "H"

Schematic

Date Completed 7/20/83
Active Oil

Tabular Data

Surface Casing

Size 14 " Cemented with Ready Mix sx.

TOC Surface feet determined by Circulated

Hole size _____

Intermediate Casing

Size 10 3/4 " Cemented with 225 sx.

TOC _____ feet determined by _____

Hole size 12 1/4

Long string

Size 7" " Cemented with 400sx.,50-50 ~~600sx.-lite~~ sx.

TOC NA feet determined by _____

Hole size 8 3/4

Total depth 3855

Injection interval

3306 feet to 3393 feet
(perforated or open-hole, indicate which)

Tubing size NA lined with NA (material) set in a

NA (brand and model) packer at NA feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) Jalmat

3. Is this a new well drilled for injection? [ ] Yes [X] No

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
ARCO O & G Co.	W.F.Hanagan			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
#4	2173'FSL & 2173'FEL	12	25-S	36-E

Unit letter"K"

Schematic

SWD Well

Date completed 3/23/53
Completed as Gas well 12/10/53

Converted to SWD well
1/30/70

Tabular Data

Surface Casing

Size 13 3/8 " Cemented with 250 sx.

TOC Surface feet determined by Circulated

Hole size 15

Intermediate Casing

Size 7 " Cemented with 500 sx.

TOC Surface feet determined by Circulated

Hole size 8 3/4

Long string

Size 2 3/8 " Cemented with NA sx.

TOC NA feet determined by NA

Hole size NA

Total depth 3164

Injection interval

2892 feet to 2914 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with EUE 8 rd internally plastic coated tub. set in a
(material)

Tension type packer packer at 2881.58 feet
(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) Jalmat

3. Is this a new well drilled for injection? /_/ Yes /X/ No

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) Perf 3105-3130

   Plugged off Oil & water, re-perforated & re-completed as Gas well/

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
(Sinclair) Maralo	W.F.Hanagan			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
#1	330'FSL & 2310'FWL	12	25-S	36-E

Unit letter "N"

Schematic

Date Completed 10/3/34
Status: P&A 6/18/81

Plugging:

Cleaned out hole to 98'top of 10 3/4" csg.Bridge @675',fishing out junk. Cleaned out to 1500'. Top 7"@ 2447'. Cleaned out to 2477'.Cleaned out to 1500'.Cleaned out to 1500'. Cleaned out to 2800'.Picked up 2 3/8"tbg. & tagged btm@ 3070'.Tagged cement plug @ 3070'.Loaded hole w/brine mud.Pickedup 2 3/8"tbg.to 3070'. Spotted 50 sx. cement w/2% CaCl2. Pld up to 2609'.Pumped 75 sx. cement w/2% CaCl2.Pld 20'jts.WOC 5 hrs. POTT.Drlg.out to 1460'. Pumped 60 sx. cement 2% CaCl2 WOC 4 hrs. Tried to tag.plug.-No plug@ 1460'.Pumped 70 sx.cement 2% CaCl2 POH.Tagged cement plug @1334'.Went in hole to 1166'.Pmpd.50sx. cmt. 2% CaCl2,pulled up to 124'. Pumped 200 sx cmt.2% CaCl2 cmt.circ.

Tabular Data

Surface Casing

Size 15 1/2" Cemented with 50 sx.

TOC Surface feet determined by circulated

Hole size 19"

Intermediate Casing

Size 10" Cemented with 700 sx.

TOC _____ feet determined by _____

Hole size 12 5/8

Long string

Size 7" Cemented with 125 sx.

TOC squeeze feet determined by NA

Hole size 9 7/8

Total depth 3332

Injection interval

3300 feet to 3320 feet
(perforated or open-hole, indicate which)

Tubing size NA lined with NA (material) set in a

NA (brand and model) packer at NA feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) Jalmat

3. Is this a new well drilled for injection? /__/ Yes /X/ No

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
ARCO O & G Co.	W.F.Hanagan			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
#5	760'FSL & 2080'FWL	12	25-S	36-E

Unit letter"N"

Schematic

Date completed: 5/11/80

Active Oil.

Tabular Data

Surface Casing

Size 8 5/8 " Cemented with 350 sx.

TOC Surface feet determined by Circulated

Hole size 12 1/4

Intermediate Casing

Size 5 1/4 " Cemented with 750 sx.

TOC NA feet determined by NA

Hole size 7 7/8

Long string

Size 2 7/8 " Cemented with -- sx.

TOC NA feet determined by NA

Hole size NA

Total depth 3200

Injection interval

2992 feet to 3042 feet

(perforated or open-hole, indicate which)

Tubing size NA lined with NA (material) set in a

NA (brand and model) packer at 2981' feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) Jalmat

3. Is this a new well drilled for injection? /_/ Yes /X/ No

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
Maralo, Inc.	Jalmat Yates Unit			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
7	990' FSL & 1650' FEL	12	25S	36E

Schematic

Tabular Data

Surface Casing

Size 10 3/4" Cemented with 225 sx.

TOC Surface feet determined by observation

Hole size 12 1/4"

Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 5 1/2" Cemented with 400 sx.

TOC - feet determined by -

Hole size _____

Total depth 3079

Injection interval

2960 feet to 3073 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8" lined with plastic coated (material) set in a

Baker AD - 1 nickel plated (brand and model) packer at 2900' feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Yates

2. Name of field or Pool (if applicable) Jalmat Yates

3. Is this a new well drilled for injection? ☐ Yes ☒ No

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) no

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Seven Rivers (now depleted)

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
Maralo, Inc.	Jalmat Yates Unit			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
9	400' FSL & 1000' FEL	12	25-S	36-E

Schematic

Tabular Data

Surface Casing

Size 8 5/8" Cemented with 200 sx.

TOC Surface feet determined by observation

Hole size 11"

Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 5 1/2" Cemented with 1200 sx.

TOC - feet determined by -

Hole size 7 7/8"

Total depth 3557

Injection interval

2971 feet to 3044 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8" lined with plastic coated (material) set in a

Baker Model AD 1 (brand and model) packer at 2914 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Yates

2. Name of Field or Pool (if applicable) Jalmat Yates

3. Is this a new well drilled for injection? / / Yes /X/ No

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) 3069 - 3184

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Seven Rivers (now depleted)

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
Maralo, Inc.	Jalmat Yates Unit			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
6	960' FSL & 425 FEL	12	25S	36E

Schematic

Tabular Data

Surface Casing

Size 10 3/4 " Cemented with 300 sx.

TOC Surface feet determined by observation

Hole size 12 1/4

Intermediate Casing

Size _____ " Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 7" " Cemented with 350 sx.

TOC - feet determined by -

Hole size _____

Total depth 2983

Injection interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with plastic coated (material) set in a

Baker Model AD 1 (brand and model) packer at 2914 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Yates

2. Name of Field or Pool (if applicable) Jalmat Yates

3. Is this a new well drilled for injection? / / Yes /X/ No

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) none

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Seven Rivers (now depleted)

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
(Atlantic) (Sinclair Repollo)	Gloyd			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
2	2310 FSL & 2310 FEL	12	25S	36E

Schematic

Tabular Data

Surface Casing

Size 13 3/8 " Cemented with NA sx.

TOC surface feet determined by observation

Hole size _____

Intermediate Casing

Size 10 3/4 " Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 7" " Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Total depth 3325

Injection interval

_____ feet to _____ feet
(perforated or open-hole, indicate which)

This well was originally plugged and abandoned on October 1, 1942. We have no record of this P & A; however, Maralo re-plugged on February 3, 1980 - a copy of C-103 is attached for your convenience.

Tubing size _____ lined with _____ (material) set in a

_____ (brand and model) packer at _____ feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) _____

3. Is this a new well drilled for injection? /7 Yes /7 No

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

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

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

STATE		
FILE		
U.S.G.S.		
LAND OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

Effective 14-65

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

5. State Oil & Gas Lease No.: N.A.

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.)

OIL WELL ☐ GAS WELL ☐ OTHER- P & A

7. Unit Agreement Name:

Name of Operator: Graloo, Inc. (Atlantic) (Sinclair Repollo)

8. Farm or Lease Name: Cloyd

Address of Operator: P. O. Box 832, Midland, Texas 79702

9. Well No.: 2

Location of Well: UNIT LETTER J, 2310 FEET FROM THE South LINE AND 2310 FEET FROM THE East LINE, SECTION 12 TOWNSHIP 25-S RANGE 36-E NMPM.

10. Field and Pool, or Wildcat: Jalmat

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

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 ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐		COMMENCE DRILLING OPNS. ☐	Re-PLUG AND ABANDONMENT ☒
PULL OR ALTER CASING ☐	CHANGE PLANS ☐	CASING TEST AND CEMENT JOB ☐	
OTHER ☐		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.

12-20-80 Drld. top plug in 10 3/4" csg. Picked up total 6 - 4 3/4" DC. Drld. and washed plug @ 490'
12-22-80 Started drlg and washing to 1691' open hole.
12-23-80 Drld & washed to 1755'. Drld. on board to 2311'
12-24-80 Drld & washed on wood to 2383'. Circ. hole clean.
12-25-80 Worked 30' into top of 7" csg. OPen hole to 2580'. Washed to 2601'.
12-30-80 WIH w/2 7/8" tbg. open ended to 2873' Spotted 50 sx 2% CaCl. Cement plug @ 2873'.
12-31-80 Tagged cement plug @ 2684'. 189' fill. Spotted 75 sx NE cmt. 2% CaCl2. Tagged cement @ 2304. WOC 5 hrs. Pmpd 50 sx cmt 2% CaCl2.
01-01-80 Tagged cement plug @ 2227'. Pumped 100 sx Cl. C 2% CaCl2 @ 1490'. WOC 4 hrs. Tagged cmt. plug @ 1480'. Pmpd 75 sx Cl. C cmt. 2% CaCl2 @ 1480'.
01-02-80 Tagged cmt. plug @ 1460'. Pmpd 75 sx cmt 2% CaCl2. WOC 5 hrs. Tagged cmt. plug @ 1402. Pmpd 25 sx cmt 2% CaCl2. Pld. tbg to 1165. Pmpd 50 sx cmt 2% CaCl2. Pld and lay down all 2 7/8" tbg. Removed BOP.
01-03-80 Plugged top 13 3/8" csg. w/10 sx cmt.
All pits have been filled and location has been levelled and cleared of junk.

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

Brenda Coffman — TITLE Production Clerk — DATE 6-18-81

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
Maralo, Inc.	Jalmat Yates Unit			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
WI 3	1550' FSL & 2500' FEL	12	25S	36E

Schematic

Tabular Data

Surface Casing

Size 8 5/8" Cemented with 300 sx.

TOC Surface feet determined by Observation

Hole size $12\frac{1}{4}$"

Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 4 1/2" Cemented with 1500 sx.

TOC - feet determined by _____

Hole size 7 7/8"

Total depth 3496

Injection interval

2915 feet to 3163 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8" lined with plastic coated (material) set in a

Baker AD - 1 nickel plated (brand and model) packer at 2893' feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Yates

2. Name of Field or Pool (if applicable) Jalmat Yates

3. Is this a new well drilled for injection? [X] Yes [ ] No

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) no

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

Seven Rivers (now depleted)

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
Maralo, Inc.	Jalmat Yates Unit			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
4	1440' FSL & 1150' FEL	12	25S	36E

Schematic

Tubular Data

Surface Casing

Size 8 5/8" Cemented with 300 sx.

TOC Surface feet determined by observation

Hole size 11"

Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size $5\frac{1}{2}$" Cemented with 800 sx.

TOC - feet determined by -

Hole size 7 7/8"

Total depth 3500'

Injection interval

2917 feet to 3002 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with FUE plastic coated (material) set in a

Baker AD - 1 nickel plated (brand and model) packer at 2883 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Yates

2. Name of Field or Pool (if applicable) Jalmat Yates

3. Is this a new well drilled for injection? / Yes /X No

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) no

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Seven Rivers (now depleted)