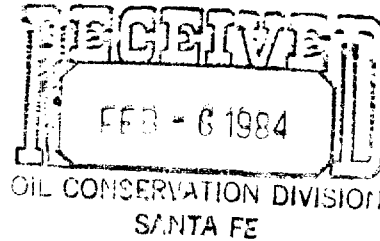




January 30, 1984

Oil Conservation Commission
Post Office Box 2088
State Land Office Building
Santa Fe, New Mexico 87501



Re: Samantha State "7", Well #2 A
Sec. 7, T-14-S, R-33-E,
Lea County, New Mexico

Dear Sir:

Please consider this Maralo's request for an administrative approval to inject produced water into a zone not productive of oil or gas. Enclosed for your consideration is Form C-108 and all requirements therein.

We are mailing a copy of our application and all attachments to the surface owner, Mrs. G. J. Tulk, P. O. Box 666, Lovington, New Mexico 88260, by certified mail. A copy of our postal receipt is attached to this letter.

Should you have any question, please contact Brenda Coffman at AC 915 684-7441. Your consideration in the aforementioned matter is appreciated.

Yours truly,

A handwritten signature in cursive script, appearing to read "R. A. Lowery".
R. A. Lowery
Production Manager

BC

c: Morris Cannan
Rick Townsend

P11 1978589

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse)

SENT TO		Mrs. G. J. Tulk	
STREET AND NO.		P. O. Box 666	
P. O. STATE AND ZIP CODE		Lovington, N.M. 88260	
POSTAGE		\$ 37	
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE	.75¢	
	SPECIAL DELIVERY	¢	
	RESTRICTED DELIVERY	¢	
	OPTIONAL SERVICES RETURN RECEIPT SERVICE	SHOW TO WHOM AND DATE DELIVERED	.60¢
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
		SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES		\$ 1.72	
POSTMARK OR DATE		1-31-84	

PS Form 3800, Apr. 1976



APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ 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? ☐ yes ☒ no
If yes, give the Division order number authorizing the project _____.

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

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

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: 1-31-83

* 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.

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 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, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

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

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

III. Well Data

- A-1. Samantha State "7", Well #2A located in Section 7, T-14-S, R-33-E, 1980' FSL & 1914' FWL.
- A-2. 13 3/8" casing set at 406', cemented with 400 sacks Class "C", 17" hole, cement circulated to surface - top determined by observation.

8 5/8" casing set at 4075', cemented with 2050 sacks Howco Lite + 200 sacks Class "C", 11" hole cement circulated to surface - top determined by observation.

5 1/2" casing to 8,788'; 7 7/8" hole size, TOC 5100', temperature survey. Ran 3 1/2", 9.5# liner set at 9941' w/50 sacks cement. Top hanger 8616'.
- A-3. The tubing will be 2 3/8" lined with Duoline HT2 and set at approximately 9826'.
- A-4. The packer will be a 5 1/2" Baker, nickel plated, Model A45 set at approximately 9826'.
- B-1. Produced water will be injected into the Upper Pennsylvanian (Bough) formation in the Baum-Upper Pennsylvanian pool.
- B-2. The injection interval will be perforated at a depth from 9926 - 9934' with 2 JSPF (total of 17 holes) and open hole to a depth of 9,941' - 10,035'.
- B-3. The well, a dry hole, was drilled originally for the purpose of producing oil.
- B-4. N.A.
- B-5. There are no higher or lower oil or gas zones in the area of review.

V. Map attached that identifies all wells and leases within two miles of proposed injection well with a one-half mile radius circle drawn around same well identifying well's area of review.

VI. There are no wells of public record within the area of review which penetrate the proposed injection zone.

VII. Data on the Proposed Operation, as follows:

- 1. The proposed average daily rate will be 700 BWPD with a maximum of 2000 BWPD.
- 2. The system will be a closed system.
- 3. The proposed average and maximum injection pressure will be 500 psig.
- 4. The source for injected water will be Bough produced water which kept in a closed system has no problem of compatibility as long as kept from exposure to oxygen etc.
- 5. The injected water will be from adjacent production from zone on lease.

VIII. Appropriate Geological Data on Zone:

1. Lithologic detail - Calcareous sandstone, cementations of clay fine - medium sorted.
2. Geological Name - Pennsylvanian (Bough(), Upper
Thickness - \pm 125' with generally 3 porous intervals 1 - 14' in thickness.
Depth - 9886 TVD (-5612')

Geological Name, depth of all drinking water - Total dissolved solids of 10,000 mg/l or less. All such water above 400'.

IX. Acid treat w/2000 gals 15% NEA.

X. Logs were submitted to the Commission on August 9, 1982.

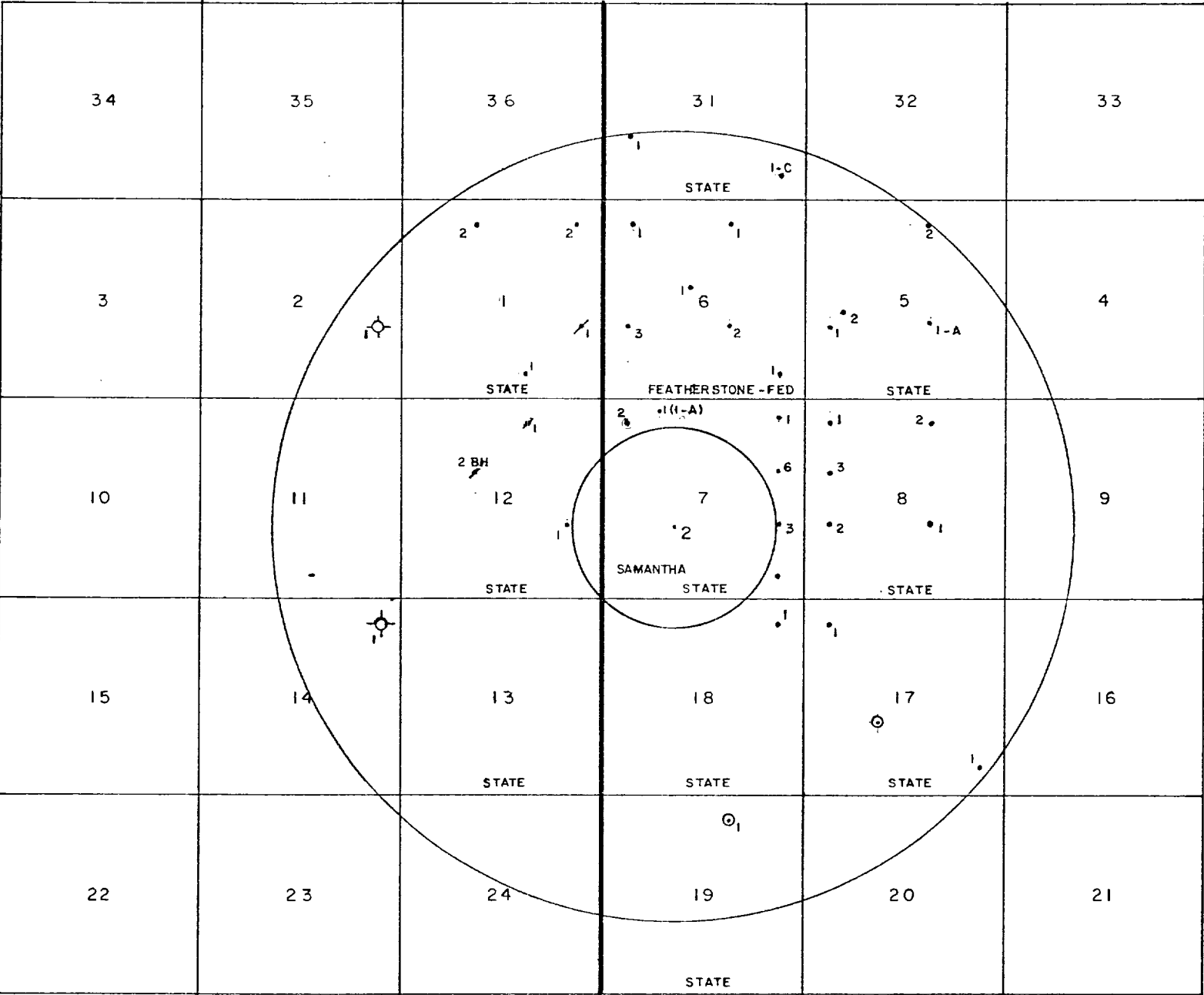
XI. N.A.

XII. Statement attached.

XIII. Proof of Notice attached.

R-32-E T-14-S

R-33-E T-14-S



MARALO, INC.

SAMANTHA STATE LSE.
PROPOSED WELL NO.2 SWD
LEA COUNTY, NEW MEXICO

DATE: 10-5-83

DRWG. NO. M-459

SCALE: 1"=4000'

DRAWN BY: FALCON



January 30, 1984

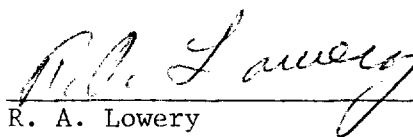
Oil Conservation Commission
Post Office Box 2088
State Land Office Building
Santa Fe, New Mexico 87501

Re: Samantha State "7", Well #2A
Section 7, T-14-S, R-33-E
Lea County, New Mexico
Application for Authorization for SWD Well

Dear Sir:

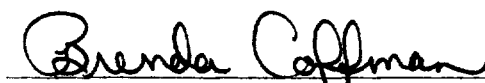
This letter is to certify that all available geologic and engineering data has been examined and we find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

I, R.A. Lowery, hereby certify that
the above statement is true and correct
to the best of my knowledge and belief.



R. A. Lowery

January 30, 1984
DATE



Brenda Coffman, Notary Public in and
for Midland County, Texas

January 30, 1984
DATE

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 day
_____ /week.

Beginning with the issue dated

January 26, 19 84

and ending with the issue dated

January 26, 19 84

Robert L. Summers
Publisher.

Sworn and subscribed to before

me this 27 day of

January, 19 84
Jan Paulowsky
Notary Public.

My Commission expires

3-24, 19 87

(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
JANUARY 26, 1984
NOTICE OF H.A.
APPLICATION FOR
DISPOSE OF P.
WATER.**

Marale, Inc. is a subsidiary of the "Oil Conservation" Commission for a permit to inject produced water into a zone not producing oil or gas. The permit is in contact with Marale, R.A. Lowery, 915 1st St., P.O. Box 832, Midland, Texas 79702-0632.

Marale, Inc. is to inject fluids into the Lower Pennsylvanian formation at the surface depth interval of 11,000 to 12,000 feet (-5745') from the Comanche State "7" well located in Unit 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 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985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

Interested parties may file objections or requests for hearing with the Conservation Division, P.O. Box 87501, Santa Fe, New Mexico 87501 within 10 days of the date of this notice.

