

December 20, 1996

Engineering Department
New Mexico Energy & Minerals Department
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

RE: Form C-108 Application of Maralo, Inc. for Salt Water

Disposal, Lea County, New Mexico

Attention: David Catanach

Under the provisions of Rule 701 (B), enclosed please find Form C-108 application with attachments for authorization to inject into the Barnes "20", Well #1, API #30-025-31601, located 766 feet from the North line and 2201 feet from the West line (Unit C) of Section 20, Township 9 South, Range 35 East, NMPM, Lea County, New Mexico.

Sincerely,

Wonother Kagan

Dorother Logan

Regulatory Analyst

Enclosures/Attachments

cc: OCD/Hobbs w/attachments

of the earlier submittal.

### OIL CONSERVATION DIVISION POST OFFICE BOX 2018 8TATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 8/501

FORM C-108 Revised 7-1-81

I.	Purpose: L Applicatio	∫Secondary on qualifies	Recovery L for adminis	☐ Pressure M strative appr		X Disposal ☐ Storage yes ☐ no
II.	Operator:	MARALO	, INC.		***	
	Address:	P. 0. I	BOX 832, MIDLA	ND, TX 79702	·	
	Contact party	. RICHARI	D GILL, PETROLI	EUM ENGINEER	Phone	e: (915) 684-7441
III.						of this form for each well be attached if necessary.
IV.	Is this an ex If yes, give	pansion of the Divisio	an existing n order numb	project? er authorizi	yes ng the proje	X no
٧.		l with a on	e-half mile	radius circl	e drawn arou	o miles of any proposed und each proposed injection
VI.	penetrate the	proposed i constructio	njection zon n, date dril	e. Such dat led, locatio	a shall incl n, depth, re	ithin the area of review which lude a description of each ecord of completion, and etail.
VII.	Attach data o	n the propo	sed operatio	n, including	:	
	2. Wheth 3. Propo 4. Source the 5. If in at the	er the syst sed average es and an a receiving jection is or within or disposal z	em is open o and maximum ppropriate a formation if for disposal ne mile of t one formatio	r closed; injection p nalysis of i other than purposes in he proposed	ressure; njection flu reinjected p to a zone no well, attach be measured	of fluids to be injected;  uid and compatibility with produced water; and of productive of oil or gas a chemical analysis of d or inferred from existing
VIII.	detail, geolo bottom of all total dissolv	gical name, undergroun ed solids c e as well a	thickness, d sources of oncentration	and depth. of drinking was of 10,000 of	Give the geo ter (aquifer ng/l or less	cluding appropriate lithologic ologic name, and depth to rs containing waters with s) overlying the proposed iately underlying the
IX.	Describe the	proposed st	imulation pr	ogram, if an	y •	
х.	Attach appropwith the Divi				well. (If y	well logs have been filed
XI.	Attach a chem available and location of w	producing)	within one	mile of any	wo or more f injection or	fresh water wells (if r disposal well showing
XII.	examined avai	lable geologic	gic and engi connection b	neering data	and find no	ement that they have be evidence of open faults be and any underground
XIII.	Applicants mu	st complete	the "Proof	of Notice" s	ection on th	ne reverse side of this form
XIV.	Certification					
	I hereby cert to the best o				with this ap	oplication is true and corre
	Name: <u>DORC</u>	THEA LOGAN	<del></del>		Title	REGULATORY ANALYST
	Signature:	(h) and	hea Loc	an,	Date:	DECEMBER 20, 1996

#### 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 factage 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.

Application For Authorization To Inject
Maralo, Inc
Barnes "20", Well #1
UL C, Section 20-T9S-R35E
Lea County, New Mexico

The purpose of completing this well is to make a disposal well for produced Devonian water into the Bough "C" formation.

Maralo, Inc. plans to convert this well to a water injection well in the Bough "C" formation.

II. Operator: Maralo, Inc.
P. O. Box 832
Midland, TX 79702
Richard A. Gill (915) 684-7441
Petroleum Engineer

- III. Well Data : See Exhibits "A" (2)
  - IV. This is not an expansion of an existing project.
  - V. See attached map, Exhibit "B"
- VI. There are 4 plugged wells within the area of review which penetrate the proposed injection zone.

  See Exhibit "C" for tabular data of all wells.

  See Exhibits "D" for schematics of plugged wells. (4)
- VII. 1. Estimated average rate is 1000 bbls/day. Estimated maximum rate is 2000 bbls/day.
  - 2. This will be a closed system.
  - 3. Average injection pressure---unknown Maximum injection pressure--2000 psi.
  - Sources of injected water would be produced water from the Devonian. See Exhibit "E" water analysis.
  - 5. Water injection will be into a zone not productive of oil and gas. The Bough "C" formation disposal zone is dry.
- VIII. 1. The proposed injection interval is a portion of the Bough "C" formation consisting of porous dolomite at a depth of 9740 9754'.

Application for Authorization to Inject Maralo Inc. Barnes "20" #1 Page 2

### VIII. continued

- 2. The Rustler fresh water zone overlies the proposed injection formations at a depth of approximately 250'. There are no fresh water zones underlying the formation.
- IX. The proposed disposal interval may be acidized with 15% HCL acid and a small frac treatment.
- X. Well Logs are filed at the Hobbs OCD office.
- XI. The location of three fresh water wells/windmills existing within a one mile radius of the subject location are noted on the map see Exhibit "F". Water Analysis is Exhibit "F1".
- XII. Maralo, Inc. has examined geologic and engineering data and has found that there is no evidence of faulting or other hydrologic communication between potential fresh water aquifers and the desired injection zone.

#### XIII. Proof of Notice

A copy of Form C-108 with the Statement of Compliance and associated exhibits has been sent by certified mail as follows:

A. Surface Owner: Tip Barnes
P. O. Box 216
Tatum, New Mexico 88267

B. There are no offset operators.

See Exhibit "G" for Proof of Publication in the Hobbs Daily News Sun.

# MARALO, INC. BARNES "20" #1 C-20-T9S-R35E LEA COUNTY, NEW MEXICO

### Exhibit "A"

#### III. Well Data

- A. 1. Lease Name/Location:
  Barnes "20", Well #1
  C 20-T9S-R35E
  766' FNL & 2201' FWL
  - 2. Casing Strings:
     Present Well Condition:
     13-3/8" @ 450' w/450 sx Cl. "C" (circ)
     8-5/8" @ 4200' w/2600 sx Howco Lt. + 200 sx "C"
     5-1/2" @ 12,635' w/850 sxs Poz + 425 sxs Howco
     Lt. and tailed w/925 sxs 50/50 Poz.
     TOC @ 5740' per temperature survey.
  - 3. Proposed Well Condition:
     Casing same as above.
    2-7/8" 6.5# K-55 duo-line plastic coated
     injection tubing @ 9700'.
  - 4. Propose to use Baker nickel-plated Loc-Set packer set at +/- 9700'.
- B. 1. Injection Formation: Bough "C" Field/Pool: Northeast Jenkins-Devonian
  - 2. Injection Interval will be through perforations at a depth of 9740 9754'.
  - Well was original drilled as a Devonian oil well. It will be a Bough "C" injection well when work is completed.
  - 4. See attached schematic for additional well data. Exhibit "A-1"
  - 5. Within the area of the well, the next higher oil zone is the San Andres and next lower zone is the Devonian.

LEASE & WELL NAME: Barnes "20"

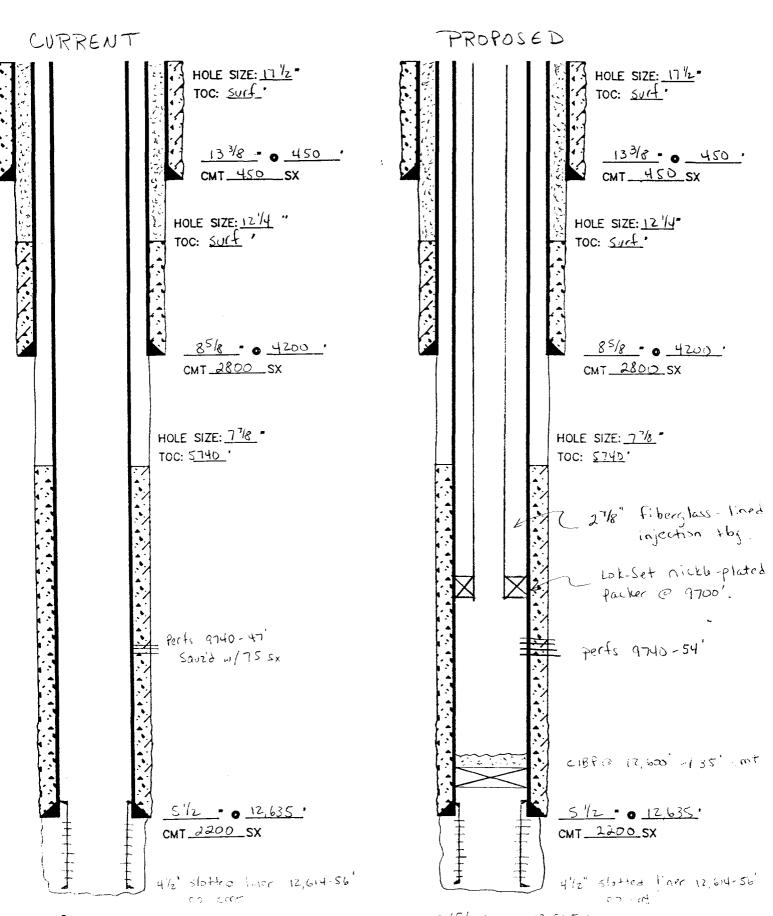
FIELD: Jenkins Dev. NE COUNTY: Lea ST.: NM

LOCATION: 766 FNL & 2201 FWIL Sec 20

T-9-5 R-35-E

DATE: 12/5/96 BY: RAG REV.: BY:

EXHIBIT "A1"



TD: 12,656 ' PBD:

TD: 12,656 PBD: 12.565

> Yates Pet, etal 9-1-92 LH-1026 96 53

Pogo Prod. |

7 · 1 · 84 LG · 1875 J · 16 79

 $\pm$  223 WEST WALL STREET  $\pm$  SUITE 900  $\pm$  (915) 684-7441  $\pm$  P. O. BOX 832  $\pm$  MIDLAND, TEXAS  $\pm$  79702  $\,\pm$ 

BARNES "20" LEASE WELL #1
LEA COUNTY, NEW MEXICO LAND MAP
SCALE: 1" = 4,000"

### EXHIBIT "C"

# TABULAR SUMMARY OF WELLS WITHIN A ONE-HALF MILE RADIUS

### MARALO, INC.

Barnes "20" No. 1

### Section 17, T-9S, R-35E

Yates Petroleum Corporation - Hilliard USA No. 1 UL. P - 330' FSL & 660' FEL Spud 10-24-80, Completed 05-30-81, Plugged 8-30-82 See Exhibit "D" for schematic

### Section 20, T-9S, R35E

Lone Wolf Producing Company - Federal No. 1 UL. B - 660' FNL & 1983' FEL Spud 12-05-59, Completed 02-24-60, Plugged 06/18/66 See Exhibit "D" for schematic

Seco Production Company - Barnes No. 1 UL. C - 660' FNL & 1980' FWL Spud 12-13-62, Completed 12-27-62, Plugged 04/65 See Exhibit "D" for schematic

Seco Production Company - Anderson No. 1 UL. F - 1980' FNL & 1980' FWL Spud 03-10-63, Completed 04-10-63, Plugged 11-03-64 See Exhibit "D" for schematic

# WELLBORE SKETCH AND WELL HISTORY

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## WELLBORE SKETCH AND WELL HISTORY

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## WELLBORE SKETCH AND WELL HISTORY

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WELLBORE SKETCH AND WELL HISTORY #101-S ساس LEASE & WELL NAME: Seco Anderson #1 ELEV.: 4169, ABOVE \_\_\_\_ FIELD: Jenking SA COUNTY: Lea LOCATION: 1980' FUL : 1980' FWL 20 - TYS-735E cont plug @ 0-33 HOLE SIZE: 11 " アントしてい DATE:\_ BY:\_\_\_ REV.:\_ TOC: \_\_\_\_\_' CASING RECORD SURFACE CASING O.D. WT/FT GRADE SET AT 85/8" 24 356 11:27 85/8 0 356 CMT\_200\_SX PRODUCTION CASING tm+ ply (2 316-4001 4 1/2" 9.5 4942 cm+ plug@ 2204-2290 TUBING NO. JTS. O.D. THD. TYPE GDE. SET AT The Control cmt plug @ 2704 - 2760 WELL HISTORY: cmt plug @ 3653-3750' HOLE SIZE: 7 7/8" Well completed 4/10/63 TOC: 1 3750' 4/2" usy cut @ 3735 Well PiA'd 11/3/64 emt plug @ 4600-4922' Perts 4795 - 4912' 4/2 . 0 4942. CMT\_\_\_(SO\_SX TD: 4945 PBD: '

### Martin Water Laboratories, Inc.

P O HQX 1488 MONAHANS, TEXAS 79756 PH 943-3234 OR 563-1040

# RESULT OF WATER ANALYSES

709 W INDIANA MICLAND, TEXAS 79701 PHONE 683-4521

O: Mr. Phillip Smith P. O. Box 832, Midland, TX 79702	LABORATORY NO SAMPLE RECEIVED RESULTS REPORTED	
COMPANY Maralo, Inc.	LEASE As listed	
Jenki Jenki		
ECTION BLOCK SURVEY COUNTY	Lea STATE	NM
OURCE OF SAMPLE AND DATE TAKEN;		-
NO.1 Produced water - taken from Barnes "2	20" #1.	
NO 2 Produced water - taken from Bonds #1.		
NO.3 Produced water - taken from S. L. Fed	leral "20" #1.	

#### REMARKS: \_\_\_\_\_

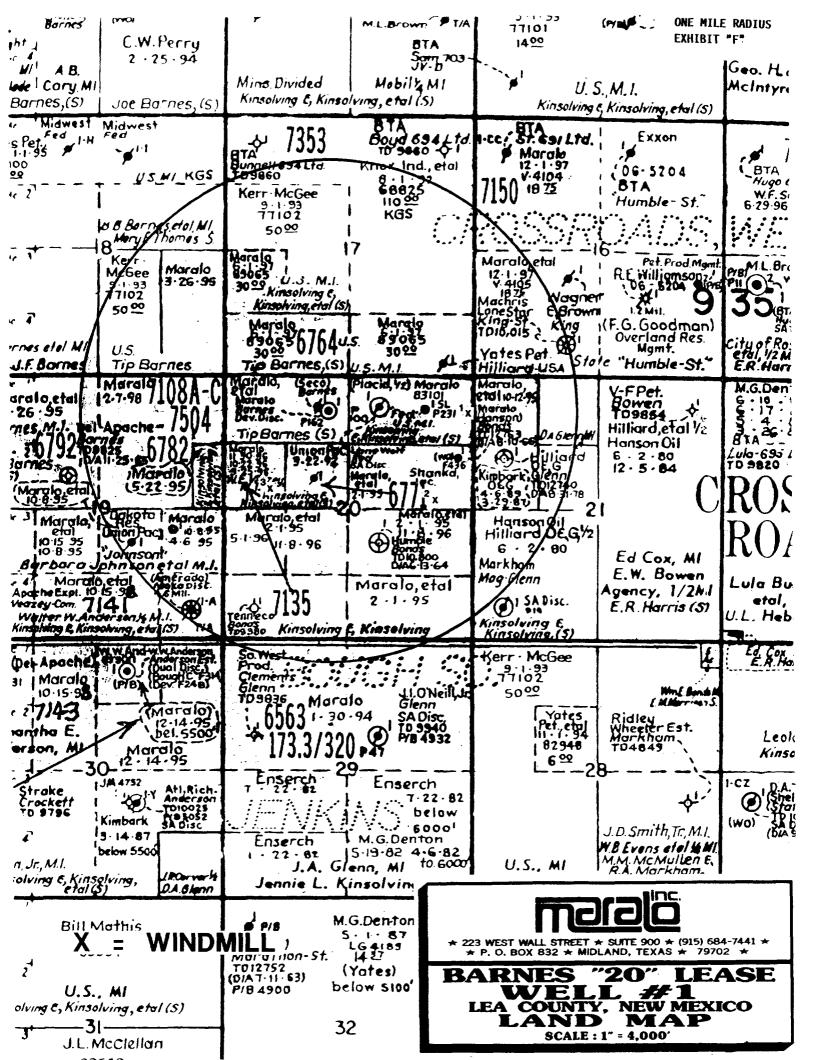
	CHEMICAL AND PHYSICAL	PROPERTIES		
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F	1.0417	1.0419	1.0422	
pri Wnen Sampled				
ph When Heceived	6.65	7.16	6.76	
Bicarbonate as HCO;	93	549	537	
Sugarsaturation as CaCO,				
Undersaturation as CaCO,				
Total Hardness as CaCO,	5,400	6,350	6,350	
Calcium es Cs	1,630	2,100	2,120	
Magnesium as Mg	322	267	255	
Sodium and/or Polasaium	19,749	19,572	19,059	
Sulfate as SO.	665	1,329	1,231	
Chloride as C1	33,734	33,379	32,669	
iron as Fe	324	5.1	172	
Barrum as Ba				
Turbidity, Electric				· · · · · · · · · · · · · · · · · · ·
Color as Pi				
Total Splins, Calculated	56,192	57,196	55,871	
Temperature *F				
Carbon Dinxide, Calculates				
Dissolved Oxygen.				
Mydrogen Sultide	0.0	0,0	0.0	
Resistivity, onms/m at 77" F	0.146	0.145	0.148	
Suspended Oil				P/PW/PPPP
Filtrable Solids as mg/l				
Volume Filternd, mi				
		200 000 000		

Results Reported As Milligrams Per Liter

"20" #1 are very similar to one another and correlate well with natural Devonian.
The water from Barnes "20" #1 shows some slight differences as compared to the other two wells in the form of a lower bicarbonate and sulfate and high iron. However, there is always a possibility for excessive iron to have some indirect influence on the bicarbonate. We do not consider this well to show sufficient difference in the water to indicate the likelihood that it is originating from a zone other than the Devonian. It is likely indicating some variations in Devonian water in the area.

Foun No. 3

Waylan C. Martin, M.A.



### Martin Water Laboratories, Inc.

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

OF WATER ANALYSES

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

### RESULT OF WATER ANALYSES

Mr. Dhillin Cmith	L.	ABORATORY NO	12967		
Mr. Phillip Smith		AMPLE RECEIVED		12-11-96	
P. O. Box 832, Midland, TX 79702	<u>'                                    </u>	ESULTS REPORTED_	12-13	3-96	
	LE,	ASE			
FIELD OR POOL					
SECTION BLOCK SURVEY	COUNTY	STATE			
SOURCE OF SAMPLE AND DATE TAKEN:					
NO.1 Raw water - taken from wir			· · · · · · · · · · · · · · · · ·		
NO.2 Raw water - taken from wir	ıdmill #2 (0.2	miles southwe	st of Bonds #1	.).	
NO.3 Raw water - taken from wir	ndmill #3 (0.4	miles southwe	st of Barnes 2	20 #1).	
NO. 4	, , , , , , , , , , , , , , , , , , ,				
REMARKS:					
CHEM	NO. 1	NO. 2	NO. 3	NO. 4	
Specific Gravity at 60 * F.	1.0020	1.0020	1.0020	140. 4	
pH When Sampled	1.0020	1.0020	1.0020		
pH When Received	7.90	7.74	7.80		
Bicarbonate as HCO,	166	176	159		
Supersaturation as CaCO,	100	170	100		
Undersaturation as CaCO,					
Total Hardness as CaCO,	416	360	410		
Catcium as Ca	117	101.	114		
Magnesium as Mg	30	26	30		
Sodium and/or Potassium	54	64	53		
Sulfate as SO.	217	214	224		
Chloride as CI	122	94	115		
Iron as Fe	0.16	0.16	0.16		
Barium as Ba					
Turbidity, Electric					
Color as Pt					
Total Solids, Calculated	706	675	695		
Temperature *F.					
Carbon Dioxide, Calculated					
Dissolved Oxygen,					
Hydrogen Sulfide	0.0	0,0	0.0		
Resistivity, ohms/m at 77° F.	9.98	11.20	10.24		
Suspended Oil					
Filtrable Solids as mg/l					
Volume Filtered, ml				~	
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mi	Results Reported As Milligra	s the above to	be true and c	orrect to	
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			<i>P</i> **		
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Form No.

Waylan C. Martin, M.A.

### AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

I, KATI	HI BE	AKDEN

### Publisher bs Daily New

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 a supplement thereof for a period.

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01	
	_week
Beginning with the issue of	dated
December 6	, 1996
and ending with the issue	•
<b>D</b>	

Athi Pourder

.. 1996

Publisher Sworn and subscribed to before

me this 9th day of

December 1996

Notary Public.

My Commission expires August 29, 1999 (Seal) LEGAL NOTICE

December 6, 1996 Maralo, Inc., P.O. Box 832, Midland, Texas 79702, is filing Form C-108 (Application for Authorization to inject) with the New Mexico Oil Conservation Division seeking administrative approval for an injection well. The proposed well, the Barnes "20", Well #1 is lecated 766' FNL and 2201' FWIL, Section 20, Township 9 South, Range 35 East, Lea County, New Mexico, will be used for water injection. Disposal waters from the Deven-ian formation will be injected into the Bough "C" formation at a depth of 9740 - 9754 feet with a maximum pressure of 2000 psi and a maximum rate of 2000 BWPD.

All atterested parties opposing the aforementioned must file objections or requests for a hearing with the Oil Conservation Division, P.O. Box 6429, Santa Fe, New Mexico, 87505-6429, within 15 days. Additional information can be obtained by contacting R.A. Lowery at (915) 684-7441. #14938

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.

01100552000

01504485

Maralo Inc. P.O. Box 832 a/c 448450 Midland, TX 79702



December 20, 1996

CERTIFIED MAIL - RETURN RECEIPT

Mr. Tip Barnes
P. O. Box 216
Tatum, New Mexico 88267

Dear Sir:

In accordance with Item XIV (Proof of Notice) Side 2, on the enclosed Revised Form C-108 (New Mexico OCD Application for Authority to Inject), Maralo Inc. hereby furnishes notice to the surface owner of the Barnes "20" Lease, Well #1 located 766 feet from the North line and 2201 feet from the West line (Unit C) of Section 20, Township 9 South, Range 35 East, NMPM, Lea County, New Mexico.

Should you have any questions, please feel free to contact me or Richard Gill, Petroleum Engineer, at (915) 684-7441.

Sincerely,

Dorothea Logan

Sonather)

Regulatory Analyst

Enclosure

cc: Oil Conservation Division

Santa Fe, New Mexico



GOVERNOR

### STATE OF NEW MEXICO

### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

12/27/96

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501 RE: Proposed: MC DHC NSL NSP SWD WFX PMX<sup>\*</sup> Gentlemen: I have examined the application for the: and my recommendations are as follows: Yours very trul

Øerry`

Sexton

Supervisor, District 1