

August 2, 1996

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

Administrative Order SWD-627

REVISED 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 Revised Form C-108 application of Maralo, Inc. for authorization to inject into the Schenck Well #1, API #30-025-07245, located 660 feet from the North line and 660 feet from the East line (Unit A) of Section 20, Township 13 South, Range 38 East, NMPM, Lea County, New Mexico.

Sincerely,

Dorothea Logan

Regulatory Analyst

Enclosures/Attachments (13)

cc: OCD/Hobbs w/attachments

1



Submit 3 Copies	Jane 01 11011 112		COPY - OCD SANTA FE <sup>CTR C-103</sup>
to Appropriate District Office	Energy, Minerals and Natural R	Resources Department	Revised 1-1-39
DISTRICT I P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVATION		WELL API NO.
DISTRICT II	P.O. Box 20 Santa Fe, New Mexico		30-025-07245
P.O. Drawer DD, Artesia, NM 88210	·		S. Indicate Type of Lease  STATE  FEE X
DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410			6. State Oil & Gas Lease No.
	CES AND REPORTS ON WE		
	VOIR. USE "APPLICATION FOR PE		7. Lease Name or Unit Agreement Name
(FORM C-	101) FOR SUCH PROPOSALS.)		<sub></sub> -
OIL OAS WELL	OTHER SALT W	ATER DISPOSAL	SCHENCK
2. Name of Operator			8. Well No.
MARALO, INC.  3. Address of Operator	<u> </u>	·	9. Pool name or Wildcat
P. O. BOX 832, MIDLAN	), TX 79702	*	WILDCAT (PENN.)
4. Well Location Unit Letter A : 66	D Foot From The NORTH	Line and 660	Feet From The EAST Line
Our Leuer	·	Disc and	rea from the
Section 20	Township 13S R		NMPM LEA County
	appropriate Box to Indicate		••
NOTICE OF INT	ENTION TO:	SUB	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS XX	COMMENCE DRILLING	OPNS. PLUG AND ABANDONMENT
PULL OR ALTER CASING		CASING TEST AND CE	BOL TNEM
OTHER:		OTHER:	
12. Describe Proposed or Completed Operation work) SEE RULE 1103.	ons (Clearly state all pertinent details, a	nd give pertinent dates, inclu	ling estimated date of starting any proposed
REGARDING ADMINISTRATIVE ORDE	R SWD-627		
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AFTER DRILLING 350' INTO DEVO FOR SALTWATER DISPOSAL INJECT		I DETERMINED THAT TH	EKE 12 NO POKOZITA ZOTTABLE
REVISED FORM C-108 APPLICATI	ON TO INTECT THTO THE UDDE	DEMNCYLVANTAN CODN	ATION AT POTIMATED DERVICE
OF 9,990 - 10,800' WILL BE FO		PERMOTEVANTAN FURM	ATTOM AT ESTIMATED DEPTHS
	·		
I hereby certify that the information above is true	and complete to the best of my knowledge and		I VOT
SIONATURE SIONALINE	Jagar TI	nle <u>regulatory ana</u>	
TYPEOR PRINT NAME DOROTHEA LOG	AN ·		те <b>летно</b> не но. 915 684-7441

JUL 3 1 1996

(This space for State ORIGINAL SIGNED BY JERRY SEXTON

APPROVED BY ....

CONDITIONS OF APPROVAL, IF ANY:

DISTRICT I SUPERVISOR



## STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

# OIL CONSERVATION DIVISION

FORM C-108

	SANTA FE. NEW MEXICO 87501	sed /-1-81
REVISE		
APPLIC	ICATION FOR AUTHORIZATION TO INJECT	
I.	Purpose: Secondary Recovery Pressure Maintenance Disposal Application qualifies for administrative approval? X yesno	Storage
II.	. Operator: MARALO, INC.	<del></del>
	Address: P. O. BOX 832, MIDLAND, TX 79702	<del></del>
	Contact party: RICHARD GILL, PETROLEUM ENGINEER Phone: (915) 684-744	<u> </u>
III.	. Well data: Complete the data required on the reverse side of this form fo proposed for injection. Additional sheets may be attached if	
IV.	. Is this an expansion of an existing project?  yes  no If yes, give the Division order number authorizing the project	
٧.	<ul> <li>Attach a map that identifies all wells and leases within two miles of any injection well with a one-half mile radius circle drawn around each propos well. This circle identifies the well's area of review.</li> </ul>	proposed ed injection
* VI.	Attach a tabulation of data on all wells of public record within the area penetrate the proposed injection zone. Such data shall include a descript well's type, construction, date drilled, location, depth, record of comple a schematic of any plugged well illustrating all plugging detail.	ion of each
VII.	. Attach data on the proposed operation, including:	
·	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compati the receiving formation if other than reinjected produced water;</li> <li>If injection is for disposal purposes into a zone not productive o at or within one mile of the proposed well, attach a chemical an the disposal zone formation water (may be measured or inferred f literature, studies, nearby wells, etc.).</li> </ol>	bility with and foil or gas alysis of
·VIII.	. Attach appropriate geological data on the injection zone including appropr detail, geological name, thickness, and depth. Give the geologic name, an bottom of all underground sources of drinking water (aquifers containing w total dissolved solids concentrations of 10,000 mg/l or less) overlying th injection zone as well as any such source known to be immediately underlyinjection interval.	d depth to aters with e proposed
IX.	. Describe the proposed stimulation program, if any.	
* X.	. Attach appropriate logging and test data on the well. (If well logs have with the Division they need not be resubmitted.)	been filed
xI.	. Attach a chemical analysis of fresh water from two or more fresh water well available and producing) within one mile of any injection or disposal well	

- 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. DODOTUEA LOCAM REGILATORY ANALYST

Title

wame: <b>Dun</b>	UINER LUGNA	11616	1424023110111	78542.01
Signature:	Orather Lesan -	Date:	AUGUST 2,	1996
-	<del></del>			

\* 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:
  - 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 the pring 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 Schenck Well #1 UL A, Section 20-T13S-R38E Lea County, New Mexico

I. The purpose of completing this well is to make a disposal well for produced Wolfcamp water into the Upper Pennsylvanian formation.

Maralo, Inc. plans to convert this well to a water disposal well into the Upper Pennsylvanian formation.

- III. Well Data: See Attachment A
  - IV. This is not an expansion of an existing project.
  - V. See attached map, Attachment B
- VI. There are 2 wells within the area of review which penetrate the proposed injection zone. (Attachments B1 and B2)
- VII. 1. Proposed average daily injection volume approximately 2000 BWPD.

  Maximum Daily injection volume approximately 2000 BWPD.
  - 2. This will be a closed system.
  - Proposed average injection pressure-unknown Proposed maximum injection pressure--2000 psi.
  - 4. Sources of injected water would be produced water from the Wolfcamp. (Attachment C)
  - 5. See Attachment C.
- VIII. The proposed injection interval is the portion of the Upper Pennsylvanian formation consisting of porous dolomite from estimated depths of 9,990 10,800' with perforations as follow:

10,209 - 10,222 10,232 - 10,238 10,248 - 10,264



Application for Authorization to Inject Schenck #1

-2- VIII. continued

10,291 - 10,299 10,320 - 10,330 10,370 - 10,380 10,416 - 10,429 10,564 - 10,570 10,579 - 10,588 10,602 - 10,632

- 2. Fresh water zones overlie the proposed injection formations at depths of approximately 100'. 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 fresh water wells and windmills existing within a one mile radius of the subject location are noted on the map. Water Analysis (Attachment D).
- XII. Maralo, Inc. has examined geologic and engineering data and has found that there is no evidence of faulting in the proposed interval.
- XIII. Proof of Notice
  - A. Certified application letter sent to the Surface Owner. There are no Offset Operators. (Attachment E)
  - B. Copy of legal advertisement (Attachment F) attached.
  - XIV. Certification is signed.



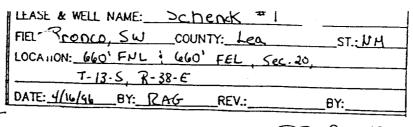
## MARALO, INC. SCHENCK #1 A-20-13S-38E LEA COUNTY, NEW MEXICO

## Attachment A Page 1

### III. Well Data

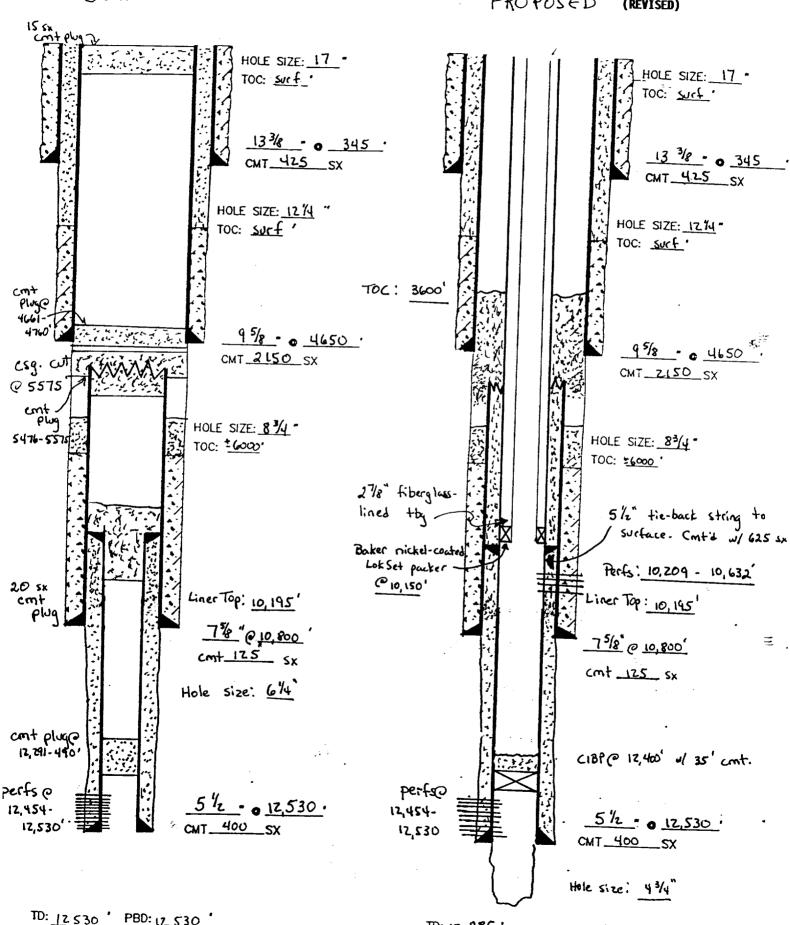
- A. 1. Lease Name/Location SCHENCK, Well #1
  A 20-13S-38E
  660' FNL & 660' FEL
  - 2. Casing Strings:
     Present Well Condition:
     13-3/8" 48# H40 @ 345' w/425 sx (circ)
     9-5/8" 36# J55 @ 4650' w/2150 sx (circ)
     7-5/8" 26, 29 & 33# @ 10,800 w/125 sx
     5-1/2" 20# N-80 Liner Top @ 10,195', set at
     12,530' w/400 sx.
  - 3. Proposed Well Condition:
     Casing and Liner same as above.
     2-7/8" 6.5# K-55 duo-line plastic coated
     injection tubing @ +/- 10,150'.
  - 4. Propose to use Baker nickel-plated Loc-Set packer set at +/- 10,150'.
- B. 1. Injection Formation: Upper Pennsylvanian Field/Pool: Wildcat (Penn.)
  - 2. Injection Interval will be through perforations at 10,209 - 10,632'.
  - 3. Well was original drilled as a Devonian Wildcat oil well. Tests proved well to be non-commercial. The well will be an Upper Pennsylvanian dolomite saltwater disposal well (9,990 10,800') when work is completed.
  - 4. See attached schematic for additional well data.
  - 5. There is a higher Wolfcamp (9400') oil or gas zone within the area of interest.

Here to 21223322322



CURRENT

PROPOSED (REVISED)



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Submit to Appropriate

State of New Mexico Energy Minerals and Natural Resources Department

Form C-105

District Office State Lease - 6 copies		Likag	y, Iviliani	,			·r				Westz	∞ 1-1-8y
Fee Lease — 5 copies DISTRICTI		ОП	CONS	ERVAT	MOT	עומ	TSIC		ELL API NO			
P.O. Box 1980, Hobbs,	NM 88240	Ċit	CON	P.O. Box				<u> </u>	30-025-32			
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DISTRICT III 1000 Rio Brazos Rd., A	ztec, NM 87410							6	. State Oil &	Gas Lease	No.	
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b. Type of Completion:  NEW WORK DEEPEN BACK BESVE OTHER  LOWE 20												
2. Name of Operator								8	. Well No.			
MARALO, INC.								1	1			
3. Address of Operator					-			1	. Pool name	_		
P. O. BOX 832,	, MIDLAND, TX	79702							WILDCAT	(WOLFCAN	P)	
4. Well Location  Unit Letter _	В : 350	Foot	From The	NORTH		Line	and _	1550	Foct F	rom The _	EAS	TLine
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28.				PRODU	CTIC	)N						
Date First Production		Product FLOWIA		Flowing, gas l	ift, pump	ing - Size	and typ	oe punip)		Well S	•	l. or Shut-in)
08/24/95 Date of Test	Hours Tested		Choke Size	Prod'n F	or	Oil - Bb	<u> </u>	Gas - Me	ŒF.	Water - Bbl		Gas - Oil Ratio
09/28/95	24 HR		48/64"	Test Peri	iod	683		900	. 1	729	:	1318
Flow Tubing Press.	Casing Pressure		Calculated 24	4- Oil - Bb	i.	Gas	- MCF	Wa	ter - Bbl.		icavity - Al	1 - (Corr.)
250 PSI			Hour Rate									·
29. Disposition of Gas ( W/O GAS LINE	Sold, used for fuel, v	rensed, es	ic.)	•					1	Witnessed B	-	
30. List Attachments			-			`			. <del></del>	-3-5	, · · · · · · · · · · · · · · · · · · ·	
DEVIATION SUF	RVEY, TEMPERAT	ure su	RVEY, C-1	104, LOGS	(2) (	<u> -123</u>	4- (x	10 the hore	of no buch	iledge and	helief	***
31. I hereby certify th				es of this Jori	n is true	ana co	aquete	w we vest	oj my kriem	rende mm	-cucy	
Signature D	orother 7	OAL	u	Printed	DOROTH	EA LOG	AN	Ti	de REGUL	ATORY AN	ALYST D	atc 10/02/95



FIFV	GL ₩8_3819	<b>71</b>	' ADOVE		LEASE	& WELL N	NAME:	Inexco	य ।	مال الم		
	ae <u> </u>	- , ———	ABUVE _	<del></del>	FIELD:			COUN	ITY: 10			
					LOCATI	ON: 660'	FSL :	660' Eu	// <u>~e</u>	1/	S	iT.: <u>WM</u>
cont plus	<u>च्छित्रस्य</u>	व क			l						2 - 28	5
0-25		1 1	HOLE SIZE: <u>NA</u> TOC: <u>NA</u> '	<del>1</del> -	DATE:_	4/17/96	_BY:	ROG	REV.:_		BY:	:
	11		_						NG RI			
	1		TOC- NA			ļ	Т		TACE C	ASING		
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	E.	: <u></u>	13 1/2 - 0	400		13 34 9 5/		NA NA		NA NA		32' ω'
·		¥.,	смт <u>425</u>	SX				PRODU	CTION			3 C
cont plug	14 - 15 - 15 - 15 - 15 - 15 - 15 - 15 -					NOV					<u> </u>	
1500 - 1600						<b></b>						
	2											
	i.	2										
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	F -					NO. JTS.	O.D.	THD.	TYPE	WT.	GDE.	SET A
		٠ <u>.</u> ا						WEL	L HIST	ORY:		<u></u>
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cmt plug 4760-4860	1-1.5.5.1	l .	<u>18</u> 6 47321			9/21/2	80 .	Spud	4.30 []		<del></del>	
1 100 - 4060		cmt	1450 SX					· · · · · · · ·				
						12/4/8	10 L	Jell F	PLAV		is A	
	Ser.	cmt pl	lug 6100-620	00								
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		1.								<del></del> -		
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		] cm+ (	Plug - 9300-6	9400'				··				
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	146.55	cut bi	ug. 10,570 -	10,750								
	· \$1.73	cmt plu	y - 10,790-	894'			<u> </u>		<del></del>			
	1				- [							<del></del> -
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TD: 17	,510 ° PBD:		•		ŀ		<del></del>					
· - <u>1 L</u>	<del>/</del> -	<del></del>			ļ					· .		
							·					



## ATTACHMENT C

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

## Martin Water Laboratories, Inc.

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

## RESULT OF WATER ANALYSES

TO: Mr. Bill Hunt		LABORATORY NO.	2965	5
P 0 Box 832, Midland, TX 797	702	SAMPLE RECEIVED	2-10	-96
Territorial IN 19	/04	RESULTS REPORTE		
COMPANY Maralo, Inc				
COMPANY <u>Maralo, Inc.</u>	<u></u>	EASELowe	<u>"20"</u>	<del></del>
FIELD OR POOL  SECTION BLOCK SUBVEY	Bronco, S	outh		
SECTION BLOCK SURVEY SOURCE OF SAMPLE AND DATE TAKEN:	COUNTY	easta	TENM	
NO 1 Produced water talen				
NO.1 <u>Produced water - taken</u>	I from Lowe "20"	#1. 2-10-96		
ું NO.3				
NO. 4				
REMARKS:				
	Wolfcam			
	CHEMICAL AND PHYSIC	AL PROPERTIES		
Specific Gravity at 60° F.	NO. 1 1.0316	NO. 2	NO. 3	NO. 4
pH When Sampled	1.0310	<del> </del>		
pH When Received	6 50			
Bicarbonate as HCO <sub>3</sub>	6.59			
Supersaturation as CaCO,	1,366			
Undersaturation as CaCO,				
Total Hardness as CaCO,	0.000			
Calcium as Ca	8,000			
Magnesium as Mg	1,600			
Sodium and/or Potassium	972			
Suifate as SO.	11,382			
Chloride as Cl	2,965			
Iron as Fe	20,240			
Barium as Ba	62.0			
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated				
Temperature *F.	38.526			
Carbon Dioxide, Calculated				
Dissolved Oxygen,				<u>-</u>
Hydrogen Sulfide	721			
Resistivity, ohms/m at 77° F. Suspended Oil	0.215			
Filtrable Solids as mg/l				
Volume Filtered, mi			-	
Volume Filtered, mi				
Additional Date	Results Reported As Milligran			
Additional Determinations And Remarks The about the water as compared to crease in calcium and magnesia	re results show s	ome mild chang	ges in the cha	racteris-
ocrease in calcium and magnesi	um along with a	somewhat lower	ATTREBUCE MO	-see is an
is could have resulted from a ter continues to have the same	Very minute inf	luanca from co	-Pa- 15 16 F	oscible
ter continues to have the sam	e basic characte	<del></del>	<del>cut acid.</del> He	wever, the
ill does not correlate with w	hat we would own	ect from Wale-	**************************************	ntered and
e area of this well.		<del></del>	<del>amh 08860 0</del> 0	records in
•				
	•			
m No. 3				



Martin Water Laboratories, Inc.

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

## **RESULT OF WATER ANALYSES**

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

		LABORATORIA	2067	0.6
TO: Mr. Bill Hunt		LABORATORY NO.	0.00	
P O Box 832, Midland, TX 7970	<b>ງ</b>	SAMPLE RECEIVED		
		RESULTS REPORTE	)	90
COMPANY Maralo, Inc.	L	EASE Lowe	"20"	
FIELD OR POOL	Bronco, S	South		
SECTION BLOCK SURVEY	COUNTY I	ea st/	ATE NM	
SOURCE OF SAMPLE AND DATE TAKEN:		317	111	
NO.1 Produced water - taken	from Lowe "20"	#2, 2-28-96		
NO. 2		#2. E 20 30		
			<del></del>	
NO. 3				
NO. 4				
REMARKS:				
СН	EMICAL AND PHYSIC	AL PROPERTIES		
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0355			
pH When Sampled				
pH When Received	6.75			
Bicarbonate as HCO <sub>3</sub>	1,122		32 . + 4 . 11	
Supersaturation as CaCO,				
Undersaturation as CaCO,			1	
Total Hardness as CaCO <sub>3</sub>	12,400		4 2	
Calcium as Ca	3,520			
Magnesium as Mg	875			
Sodium and/or Potassium	11,883			
Sulfate as SO.	2,658			
Chloride as Cl	24,502			
Iron as Fe	192			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	44,560			
Temperature *F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	424			
Resistivity, ohms/m at 77° F.	0.185			
Suspended Oil			1	
Filtrable Solids as mg/l				
Volume Filtered, ml				
			•	
Additional Design of the Control of	Results Reported As Milliga			
Additional Determinations And Remarks The above	results revea	l a significan	it increase in	calcium,
slight increase in chloride, an	d a slight dec.	line in sulfat	e as compared	to the last
water recovered from this well	on Z-IU-96 and	reported on 1	aboratory #29	655. How-
ever, it still shows to have ba	sically the sai	ne cnaracteris	tics as previ	ously en-
countered and does not correlat	e with what we	would antici	pate from Wol	icamp in
this area.	•		A-94	
· · · · · · · · · · · · · · · · · · ·	······································			
		*1		
From Ma 2	- f f		- 4/4	<u>k</u>
form No. 3	1.47		I'm all to to	



## ATTAC. .AT "u"

P, O. BOX 1488 MONAMANS, TEXAS 70768 PH, 843-3234 NO 863 1040

## Martin Water Laboratories, Inc.

700 W. INDIANA MIDLAND, TEXAS 79701 PHONE 683-4501

### RESULT OF WATER ANALYSES

	1	ABORATORY NO.	109518	32			
o: Mr. Bill Hunt		AMPLE RECEIVED		-95			
P. O. Box 832, Midland, TX 79		RESULTS REPORTED . 10-31-95					
OMPANY Maralo, Inc.	LE	Age Novemi	ner 16 <b>#</b> 1				
OMPANY_ INTRIOS FREE	LC	A96					
IELD OR POOLSURVEY	COLUMNY T. P.		TE NM				
	COUNTY	21A	· C				
OURCE OF SAMPLE AND DATE TAKEN:	and and 16 salesies	/11 *** 11 10.	-25-95				
NO.1 Raw water - taken from	Bection to windm	ill well. 10	25 05				
NO. 2 Raw water - taken from	Harris Urchard W	ater well. 1	J-23-95	<del></del>			
NO.3 Raw water - taken from	North Townsand w	indmill well.	10-25-95				
NO.4 Raw water - taken from	R. N. Williams h	ouse vindmill	well (section	16). 10-25-			
EMARKS:	•••	J 14-					
	HEMICAL AND PHYSICA NO. 1	L PROPERTIES NO. 2	NO. 3	NO. 4			
	1.0021	1.0020	1.0018	1,0014			
Specific Granty at 60° F.		1.44424	_ A VV AU				
pH When Samples	6,92	6.68	6.95	6.92			
pH When Heceived			259	259			
Gleerbonste se HCO,	220						
Superseturation as CaCO,		·					
Undersaturation es CeCO <sub>1</sub>			202	252			
Total Kardness as CaCO,	480	616	292	252			
Calcium 88 Ca	146	178	84				
Magnesiya es Mg	28	42 -	20	12			
Sodium andior Potassium		86	101	67			
Sunate as SO,	202	288	169	123			
Chloride at Cl	145	200	88	41			
fron es Fe	0.04	0.04	0.16	0.08			
Berlym as 84			<u> </u>				
Turnetity, Electric							
Color as Pt							
Total Solids, Calculated	793	1.065	/21	584			
Temperature *F.							
Cerpon Dissille, Calculated							
Dissolved Oxygen.		<u> </u>					
Hydrogen Sullide	0.0	0.0	0.0	0.0			
Resistivity, ehmelm at 77° F.	8.96	6.69	11.08	14.86			
Suspended Oil							
Princable Solids as mg/l							
Volume Fillered, mi		1					
Nitrate. as N	4.8	8.2	3.5	1.8			
		<del> </del>					
	Secure Reparted As Minigr	sma Per Liter	1				
	dersigned certifi		to be true an	d correct to			
the best of his knowledge and	belief.						
		<del></del>					
	<u> </u>	<del>/)</del>	_///				
		<u> </u>	496				
	•	17.17	TINT 1				



## ATTACHMENT "E"

## SCHENCK WELL #1

## **OFFSET OPERATORS:**

THERE ARE NOT OFFSET OPERATORS

## SURFACE OWNER:

MS MARY RUTH MCCRORY
P. O. BOX 25764
ALBUQUERQUE, NEW MEXICO 87125

(copy of certified letter attached)



## AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

I, Kathi Bearden
Publisher
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.
of
1weeks.
Beginning with the issue dated
July 28
and ending with the issue dated
July 28
Mhi Muser Publisher
Sworn and subscribed to before
me this 3 day of
July 1006
Sandra Catlett
Notary Public.
My Commission expires

LEGAL NOTICE 197

July 28, 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 Conseryation Division seeking administrative approval for an injection well. The proposed
well, the Schenck #1 is located 660° FNL and 660° FEL,
Section 20, Township 13
South, Range 38 East, Lea
County, New Mexico, will be
used for saltwater disposal.
Disposal waters from the
Wolfcamp formation at a
depth of 9,990 - 10,800 feet
with a maximum pressure of
2000 psi and a maximum rate
of 2000 BWPD:

All interested 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) 648-7441.

My Commission expires August 29, 1999 (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.

