#### Jones, William V

From: Brian Collins [engineering@marbob.com]

Sent: Wednesday, March 17, 2004 10:37 AM

**To:** Jones, William V **Subject:** Spumoni C-108

We're getting things worked out with OXY. Unless someone sends in a protest within the 15 day time window, please go ahead and process the Spumoni C-108 you've been working on. Call me if you have questions. Thanks.

Brian Collins 505-748-3303

email: engineering@marbob.com

This email has been scanned by the MessageLabs Email Security System. For more information please visit http://www.messagelabs.com/email

3/9/04 3/24/64

WUJ



PLR0406926408

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT Oil Conservation Division 1220 South St. Francis Dr. MAR 0 8 2004 Santa Fe, New Mexico 87505

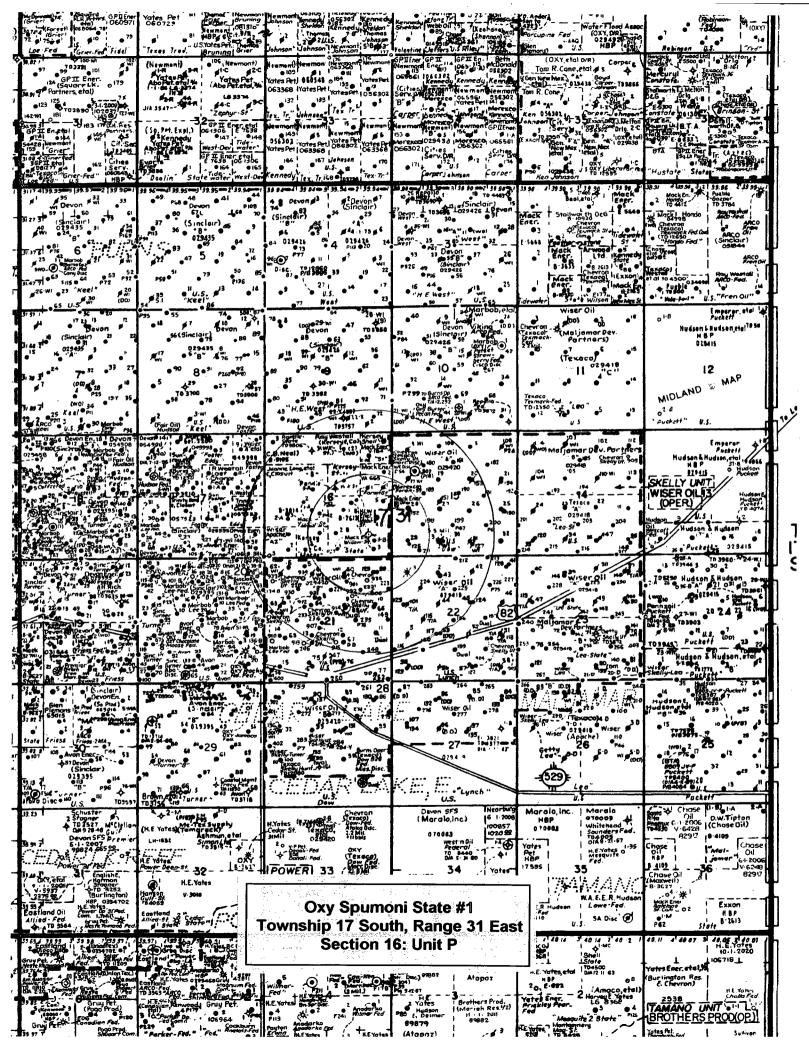
FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT N

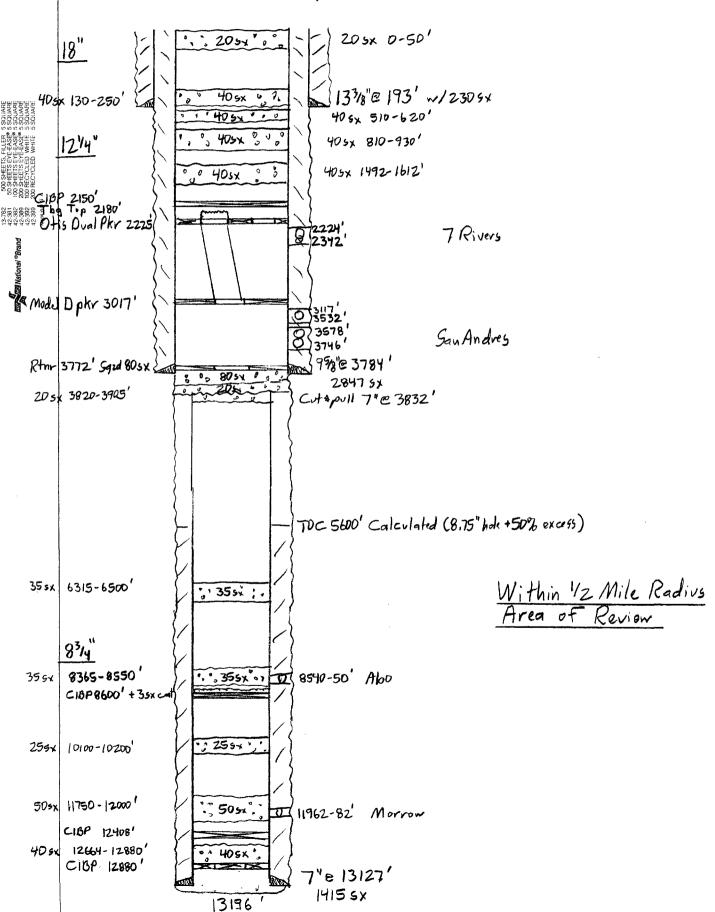
1.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X Yes No				
II.	OPERATOR: MARBOB ENERGY CORPORATION				
	ADDRESS: P O BOX 227, ARTESIA, NM 88211-0227				
	CONTACT PARTY: BRIAN COLLINS PHONE: 505-748-3303				
III.	WELL DATA: Complete 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 X 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 detail.				
VII.	Attach data on the proposed operation, including:				
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</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 compatibility with the receiving formation if other than reinjected produced water; and,</li> <li>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.).</li> </ol>				
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.				
IX.	Describe the proposed stimulation program, if any.				
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).				
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.				
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.				
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.				
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.				
	NAME: BRIAN COLLINS TITLE: ENGINEER				
	SIGNATURE: DATE: 03/01/04				
*	E-MAIL ADDRESS: <a href="mailto:engineering@marbob.com">engineering@marbob.com</a> If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: <a href="mailto:engineering@marbob.com">engineering@marbob.com</a> Please show the date and circumstances of the earlier submittal:				

#### Application for Authorization to Inject Spumoni SWD Unit P, Section 16-T17S-R31E 30-0 15-33089

- V. Map is attached.
- VI. One well within the 1/2 mile radius area of review penetrates the proposed injection zone. A wellbore schematic is attached for the Skelly Unit #3 located 2333' southeast of the proposed Spumoni SWD.
- VII. 1. Proposed average daily rate = 5000 BWPD
  Proposed maximum daily rate = 20,000 BWPD
  - 2. Proposed maximum injection pressure = 1920 psi (0.2 psi/ft)
  - 3. System is closed
  - 4. Source of injection fluid will be San Andres & Yeso produced water. Water analysis is attached
  - 5. Disposal zone water analysis is attached. There will be no compatibility problems.
- VIII. The injection zone is the Penn from 9603' to 9716' and is composed of dolomite. Underground sources of drinking water will be shallower than 650 feet deep.
  - IX. The proposed injection zone will be acidized with 25,000 gallons 20% HCL acid
  - X. Logs are filed with the Division. A section of the neutron-density log is attached.
  - XI. There are no fresh water wells within 1 mile of the proposed SWD well.
- XII. After examining available geologic and engineering data, there is no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Proof of Notice is attached.



Skelly Unit 3 660' FNL, 660' FWL D-22-175-31e Eddy, NM

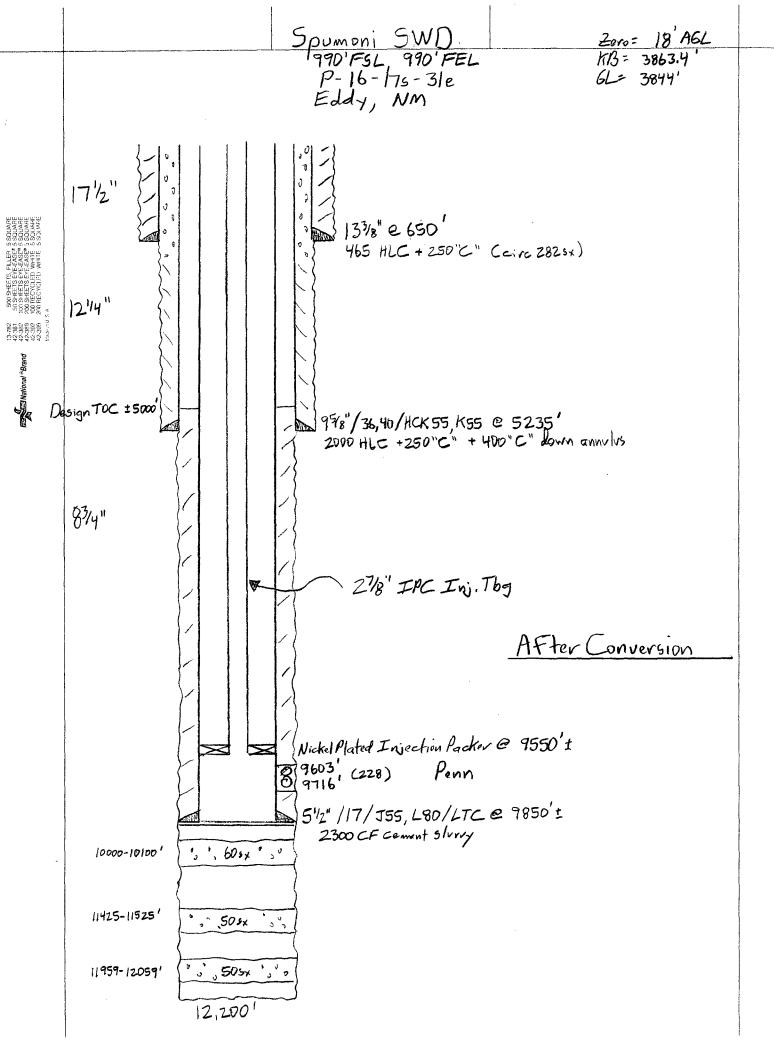


# INJECTION WELL DATA SHEET

Spumoni St.#1 1990'FSL 990'FEL P-16-175-31e Eddy, NM Zero= 18 AGL MB= 3863.4' GL= 3844'

		Eddy, NM	
35-406' Tagged  17/2"  600'=768'  Tagged  12'14" 1630-  Tagged	11554 V 3	133/8" e 650 465 HLC + 250"C" Ceiv	c Z8Z5x)
5050'-5285' Tagged	°° 1005× °°°	1958"/36,40/HCK55,K55 @ 5 2000 HLC +250"C" + 400"C	235' " down annulus
83/4"			
6984-70841	1, 504 120		
8212-83121	1, 505*		Before Conversion
94m - <b>9500 '</b>	505*		
10000 - 10100 1	00° 605x 50° 5		
1425-11525'	°°, 505× °°		
11959-12059'	° , ' 505x ', ",		

12,200



#### HALLIBURTON DIVISION LABORATORY

#### EXHIBIT A

HALLIBURTON SERVICES

#### HALLIBURTON SERVICES

#### ARTESIA DISTRICT

#### LABORATORY REPORT

(Section VII, C-108)

	LABUHA	TORY REP	ORT No	W167 & W168-93
TO Marbob Energ	y Corporation	<del></del>	Date	May 20, 1993
	88210		thereof, nor a copy thereof, 4 to be p the express written approval of let	urion Services and neither 4 nor any per- tich-shed or disclosed without limit securing loratory management, it may however, be its operations by any person or concern and leport from Halliburion Services
Submitted by			Date Rec.	
Well No.		Depth	Forma	tion
Field		County	Sourc	e
	Burch Keely			Mary Dodd A
Resistivity	0.066 @ 70°			0.060 @ 70°
Specific Gravity	1.0979 @ 70°			1.1250 @ 70°
рн	7.0			7.0
Calcium	4,379	<del></del>		3,332
Magnesium	2,081		<del></del>	2,890
Chlorides	84,000	<del></del>		111,000
Sulfates	1,000	<del></del>		400
Bicarbonates	976			1,403
Soluble Iron	0	•		. 0
		***************************************		
Remarks:	Produced Wate	er An.	aly ses	
	Respect	() And (illy subs	itted	

Analyst: Eric Jacobson - Operations Engineer

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

		LABORATORY NO.	10LAN79419	
Mr. Keith Norvell		SAMPLE RECEIVED	7-6-9	4
P. 0. Box 10340, Midland, TX 7			3.0.0	
r. O. Box 10540; Highand; In 7	77.02	RESULTS REPORTED_	1-0-7	<del>1</del>
COMPANY Pogo Producing C	Ompany	-405 9	abre Federal	<i>1</i> ₽1
	Ompari, [	-ASE	aure rederar	и т
FIELD OR POOLSURVEY	COLINTY	Fddy or a	e NM	
SECTION BLOCK SURVEY	COUNTY	SIAI	ENri	<del></del>
SOURCE OF SAMPLE AND DATE TAKEN:	C-l B-1	-1 H1 B-11-	176-790	
NO.1 Produced water - taken from	om Sabre Feder	al #1. D'11	113-276	
NO. 2	<del></del>			·
NO.3				
NO.4 Analysis at Inje	ction Zone	Water	(From nea	rbs well)
REMARKS:	MICAL AND PHYSICA	L DDODEDTIES		
CHE	NO. 1	NO. 2	NO. 3	NO. 4
	1.0119	<del>                                     </del>		
Specific Gravity at 60° F.	1.0119	<del> </del>	<del></del>	<del> </del>
pH When Sampled	6.96	<del> </del>		
pH When Received	1,525	<del> </del>	<del></del>	
Bicarbonaté as HCO,	1,323	<del>                                     </del>		
Supersaturation as CaCO,		<del> </del>		<u> </u>
Undersaturation as CaCO,	3,050			
Total Hardness as CaCO,		<del> </del>		
Calcium as Ca	880			
Magnesium as Mg	207			
Sodium and/or Potassium	3,453	<del>                                     </del>		
Sullate as SO,	2,400			
Chloride as Cl	4,829			
Iron as Fe	58.0			
Barium as Ba		<del> </del>	<del></del>	
Turbidity, Electric	<del></del>			<del> </del>
Color as Pt	12 207	1		
Total Solids, Calculated	13,294			<del> </del>
Temperature *F.	<del></del>	<del> </del>		<del></del>
Carbon Dioxide, Calculated	<del></del>	<del>                                     </del>	<del></del>	
Dissolved Oxygen,	05/	<del> </del>		
Hydrogen Sulfide	954	<del></del>		<del></del>
Resistivity, ohms/m at 77° F.	0.558			
Suspended Oil	<del></del>		<del></del>	<del>                                     </del>
Fittrable Solids as mg/l	<del></del>			<del>                                     </del>
Volume Filtered, mi				
	<del></del>	<del> </del>		<del> </del>
	<del>-  </del>	<del> </del>		<del> </del>
		<u> </u>		<u> </u>
We are not	Results Reported As Milligr		1	
Additional Determinations And Remarks We are not	ramiliar with	the specific	location of	this well or
the zone involved herein; but in	comparing wit	n our general	records in	this county,
we find this water correlates wi	th what would	be expected f	rom a natura.	L Canyon.
	<del></del>	<del> </del>	<del></del>	·
	<del></del>	·		
	<del></del>	<del></del>	<del></del>	<del></del>
			<del>' (                                   </del>	
B		<i>-</i> ? <i>-</i> ?	//	

Form No. 3

Waylan C. Martin, M.A.

<u> </u>			
E E		ES COMPENSA!	ED NEUTRON LOG
<b>Baker Atlas</b>	S		
FILE NO:	WELL WELL	OXY USA WTP LIMITED I	LIMITED PARTNERSHIP
API NO: 30-09533089-00	FIELD		STATE NEW MEXICO
Ver. 3.87	LOCATION:		OTHER SERVICES
FINAL PRINT	900' FSL &	FSL & 990' FEL	DITWIT
	SEC 16	TWP 175 RGE 31E	E C
PERMANENT DATUM	<u>ල</u>	ELEVATION 3844 FT	ELEVATIONS:
LOG MEASURED FROM	<b>&amp;</b>	18 FT ABOVE P.D.	무
DRILL MEAS. FROM	   @		GL 3844 FT
DATE		30-JAN-2004	
RUN TRIP		1	
SERVICE ORDER		424620	
DEPTH LOGGER		12200 FT	
BOTTOM LOGGED INTERVAL		12197 FT	
TOP LOGGED INTERVAL		M	3
CASING LOGGER	İ	5236 FT	
BIT SIZE		8.75 IN	
FWID IN			
DENOITY PISCOSITY		10 B/G	
URCE OF SAMP		RCULATION TA	
RM AT MEAS. TEMP.			•
RMF AT MEAS. TEMP.			9
RMC AT MEAS. TEMP.		<b>8</b>	6
SOURCE OF RMF	RMC	WEASURED	<b>3</b>
TIME SINCE CINCLE ATION		5. 75 HOURS	
MAX. RECORDED TEMP.		156 DEGF	
EQUIP. NO. LOCATION		1	
WITNESSED BY		CASEY TAYLOR	

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

BO	REHOLE RECO	RD
BIT SIZE	FROM	то
12.25 IN	0 FT	5235 FT
8.75 IN	52 <b>3</b> 5 FT	12200 FT

CASING RECORD					
SIZE	WEIGHT	GRADE	FROM	ТО	
9.625 IN			0 FT	5235 FT	
5.5 IN					

#### REMARKS

RUN 1 TRIP 1:

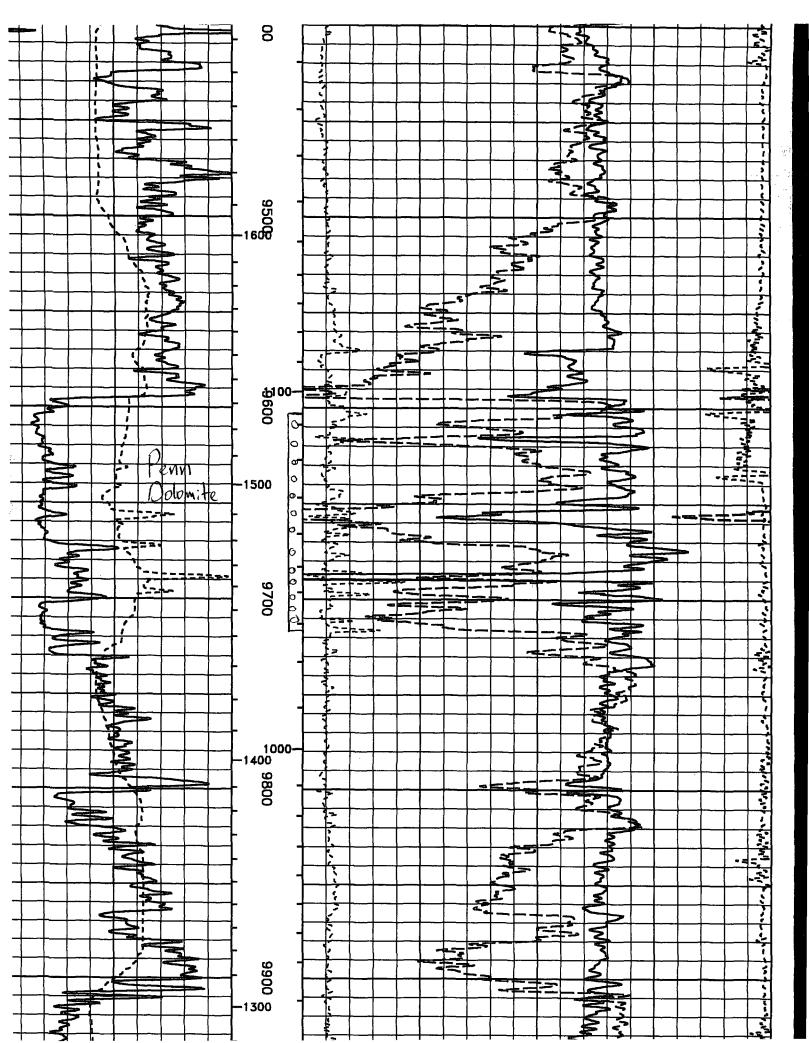
NACL = 229485 PPM

CL = 139505 PPM

CVOL IS TOTAL VOLUME LESS 5.5" CASING

CNC IS CALIPER AND CASING CORRECTED

CREW: L. PEREZ





March 1, 2004

Artesia Daily Press P. O. Box 190 Artesia, NM 88211-190

Re: Legal Notice

Salt Water Disposal Well

#### Gentlemen:

Enclosed is a legal notice regarding New Mexico Oil Conservation Division C-108 Application for Authorization to Inject for a salt water disposal well.

Please run this notice and return the proof of notice to the undersigned at Marbob Energy Corporation, P. O. Box 227, Artesia, NM 88211-0227.

Sincerely.

**Brian Collins** 

Petroleum Engineer

BC/dlw

enclosure

#### ARTESIA DAILY PRESS LEGAL NOTICES

Marbob Energy Corporation, Post Office Box 227, Artesia, New Mexico, 88211-0227, has filed Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Spumoni SWD, is located 990' FSL and 990' FEL, Section 16, Township 17 South, Range 31 East, Eddy County, New Disposal water will be sourced from area wells producing from the San Andres & Yeso formations. disposal water will be injected into the Penn formation at a depth of 9603' - 9716' at a maximum surface pressure of 1920 psi and a maximum rate of 20,000 BWPD. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Street, Santa Fe, New Mexico, 87505, within fifteen (15) days of this notice. Any interested party with questions or comments may contact Brian Collins at Marbob Energy Corporation, Post Office Box 227, Artesia, New Mexico 88211-0227, or call 505-748-3303.

Published in the Artesia Daily Press, Artesia, New Mexico , 2004.



# marbob energy corporation—

March 3, 2004

ExxonMobil Oil Corporation Attn: Paul Keffer P. O. Box 4610 Houston, TX 77210-4610

Re: Application to Inject Spumoni SWD

Township 17 South, Range 31 East, NMPM

Section 16: 990 FSL and 990 FEL

**Eddy County, New Mexico** 

Dear Mr. Keffer:

Enclosed for your review is a copy of Marbob Energy Corporation's application to convert the referenced well into a saltwater disposal well. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter. If you have no objections to our application, please indicate below and return one copy of this letter to our office.

Please do not hesitate to contact us should you have any questions.

Sincerely,

Brian Collins

Petroleum Engineer

BC/dlw enclosure

ExxonMobil Oil Corporation has no objection to the proposed disposal well:

Ву:	***************************************
Title:	
Date:	



March 2, 2004

New Mexico State Land Office Oil, Gas & Minerals Division P. O. Box 1148 Santa Fe, NM 87504-1148

Re: Application to Inject Spumoni SWD

Township 17 South, Range 31 East, NMPM

Section 16: 990 FSL and 990 FEL

Eddy County, New Mexico

#### Gentlemen:

Enclosed for your review is a copy of Marbob Energy Corporation's application to convert the referenced well into a saltwater disposal well. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter. If you have no objections to our application, please indicate below and return one copy of this letter to our office.

Please do not hesitate to contact us should you have any questions.

Sincerely,

Sincerely,

Brian Collins

Petroleum Engineer

BC/dlw enclosure

New Mexico State Land Office has no objection to the proposed disposal well:

By:

Title:

Date:



March 2, 2004

ChevronTexaco Permian Business Unit 15 Smith Road Midland, TX 79705

Re: Application to Inject Spumoni SWD

Township 17 South, Range 31 East, NMPM

Section 16: 990 FSL and 990 FEL

Eddy County, New Mexico

#### Gentlemen:

Enclosed for your review is a copy of Marbob Energy Corporation's application to convert the referenced well into a saltwater disposal well. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter. If you have no objections to our application, please indicate below and return one copy of this letter to our office.

Please do not hesitate to contact us should you have any questions.

Sincerely,

Brian Collins Petroleum Engineer

BC/dlw enclosure

ChevronTexaco has no objection to the proposed disposal well:

Ву:	 	····	 	
Title:	 		 	
Date:				



### marbob energy corporation-

March 2, 2004

Oxy Permian Ltd. P. O. Box 50250 Midland, TX 79701

Re: Application to Inject

Spumoni SWD

Township 17 South, Range 31 East, NMPM

Section 16: 990 FSL and 990 FEL

Eddy County, New Mexico

#### Gentlemen:

Enclosed for your review is a copy of Marbob Energy Corporation's application to convert the referenced well into a saltwater disposal well. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter. If you have no objections to our application, please indicate below and return one copy of this letter to our office.

Please do not hesitate to contact us should you have any questions.

Sincerely,

Brian Collins
Petroleum Engineer

BC/dlw enclosure

Oxy Permian Ltd. has no objection to the proposed disposal well:

Ву:		 	***************************************
Title:			
Date:	<u></u>	 	



energy corporation-

March 2, 2004

The Wiser Oil Company 8115 Preston Rd., Ste. 400 Dallas, TX 75225

Re: Application to Inject Spumoni SWD

Township 17 South, Range 31 East, NMPM

Section 16: 990 FSL and 990 FEL

Eddy County, New Mexico

#### Gentlemen:

Enclosed for your review is a copy of Marbob Energy Corporation's application to convert the referenced well into a saltwater disposal well. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter. If you have no objections to our application, please indicate below and return one copy of this letter to our office.

Please do not hesitate to contact us should you have any questions.

Sincerely,

State Laboration

Brian Collins

Petroleum Engineer

BC/dlw enclosure

Date:

The Wiser Oil Company has no objection to the proposed disposal well:

By:

Title:



marbob energy corporation—

March 2, 2004

Kersey & Company P. O. Box 1248 Fredricksburg, TX 78624

Re: Application to Inject

Spumoni SWD

Township 17 South, Range 31 East, NMPM

Section 16: 990 FSL and 990 FEL

Eddy County, New Mexico

#### Gentlemen:

Enclosed for your review is a copy of Marbob Energy Corporation's application to convert the referenced well into a saltwater disposal well. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter. If you have no objections to our application, please indicate below and return one copy of this letter to our office.

Please do not hesitate to contact us should you have any questions.

Sincerely,

Brian Collins
Petroleum Engineer

BC/dlw enclosure

Kersey & Company has no objection to the proposed disposal well:



# marbob energy corporation-

March 2, 2004

Mack Energy Corporation P. O. Box 960 Artesia, NM 88211-0960

Re: Application to Inject

Spumoni SWD

Township 17 South, Range 31 East, NMPM

Section 16: 990 FSL and 990 FEL

Eddy County, New Mexico

#### Gentlemen:

Enclosed for your review is a copy of Marbob Energy Corporation's application to convert the referenced well into a saltwater disposal well. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter. If you have no objections to our application, please indicate below and return one copy of this letter to our office.

Please do not hesitate to contact us should you have any questions.

Sincerely

**Brian Collins** 

Petroleum Engineer

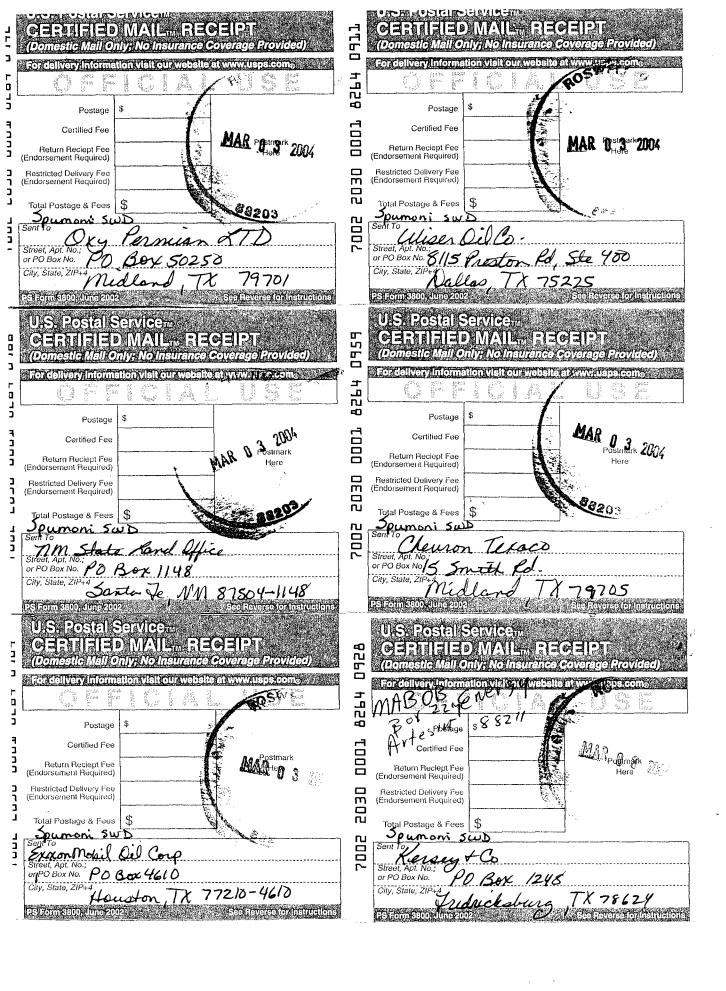
BC/dlw enclosure

Mack Energy Corporation has no objection to the proposed disposal well:

By:

Title:

Date:



AVE OPE O THE RIGHT FOLD AT DOTTED THE  THE THE THE THE THE THE THE THE THE THE	0935	0935	U.S. Postal Service MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)  For delivery Information visit our website at www.usps.com			
	) Z E 4	1564		Control of the Contro		
	o coor a	101 8	Postage Certified Fee	\$		
SSERIOR I		00 0	Return Reciept Fee (Endorsement Required) Restricted Delivery Fee		Postmark Here	
	203	203	(Endorsement Required)  Total Postage & Fees	\$	3/3/04	
	יחחק	7002	Sent To Lampin Su Street, Apt. No.; or PO Box No.	ungg Cory O Box 960		
	l san bekesar sprogram	I grante to become	PS Form 3800; June 200		N 88211-0960 See Reverse for Instructions	

The postoffice did not return this receipt to me, but it was mailed out with all the others.