CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS 500 571

Operator: SIETE OYG CORP. Well: GERONINO FED WAL NO. 11
Contact: DARRIN Green Title: Res. Eng. Phone: (505) 622.220
DATE IN 9-14-94 RELEASE DATE 9-28-94 DATE OUT 11-2-94
Proposed Injection Application is for: WATERFLOOD Expansion Initial
Original Order: R Secondary Recovery Pressure Maintenance
SENSITIVE AREAS X SALT WATER DISPOSAL
WIPP Capitan Reef Commercial Operation
Data is complete for proposed well(s)? Additional Data
AREA of REVIEW WELLS
/Z Total # of AOR # of Plugged Wells
463 Tabulation Complete 46 Schematics of P & A's
461 Cement Tops Adequate NO AOR Repair Required
INJECTION INFORMATION
Injection Formation(s) DILAWARE (4636'-5198') (CHERRY CAWYOU)
Source of Water PRODUCED - DELAWARE QUEEN, GRAYBURG Compatible 45
PROOF OF NOTICE
Copy of Legal Notice X Information Printed Correctly
X Correct Operators X Copies of Certified Mail Receipts
Objection Received Set to Hearing Date
NOTES:
APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL 465 COMMUNICATION WITH CONTACT PERSON:
1st Contact:TelephonedLetter Date Nature of Discussion
2nd Contact:TelephonedLetter Date Nature of Discussion

OIL CONSERVATION DIVISION

FORM C-108 Revised 7-1-81

POST OFFICE BUX 2018

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SANTA FE, NEW MEXICO 87501

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PPLIC	ATION FOR AUTHORIZATION TO INJECT
1.	Purpose: Sccondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Disposal no
II.	Operator: Siete Oil & Gas Corporation
	Address: P.O. Box 2523 Roswell, NM 88202-2523
	Contact party: Darrin Steed Phone: 505-622-2202
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?
٧.	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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and 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.).
111.	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.
х.	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.
III.	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: DARRIN STEED Title RESERVOIR ENGINEER Signature: Date: Quality 22, 1994
	Signature: Date: Marin 22, 1994

* 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 conv to Santa for

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 anv.

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.

Geronimo Federal No. 11 - Convert to Injection

NMOCD Form C-108 Section III

- III. Data on injection well.
 - A. Injection well information (see attached schematic)
 - 1. Lease: Geronimo Federal

Well No: 11

Location: 990' FSL & 330' FEL

Section 24, T-18-S, R-31-E

Eddy County, NM

2. Casing: Surface - 8 5/8", 24# @ 364', cmt'd w/230 sks., circ to surface.

Production - 5 1/2", 15.5# @ 5499', cmt'd w/1330 sks., cmt to surface.

- 3. Tubing: 2 3/8", 4.7#, J-55 internally coated set @ 4580'
- 4. Packer: Baker Model AD-1 set @ 4580'.
- B. Other well information
 - 1. Injection formation: Delaware

Field: East Shugart Delaware

- 2. Existing cased hole perforated from 4636' 4651' and proposed perforations from 5102' 5198'.
- 3. The Geronimo Federal #11 was originally drilled for oil and gas production.
- 4. There are no other perforated or tested zones in the Geronimo Federal #11.
- 5. The Grayburg is productive at about 4300' and there are no lower productive zones below the Delaware.

WELL: GERONIMO FEDERAL #11

FIELD: E. SHUGART DELAWARE INTERVAL: DELAWARE

Comp: 9/30/87

IP: 50 BOPD, 115 BWPD, 30 MCFGPD (GOR 600)

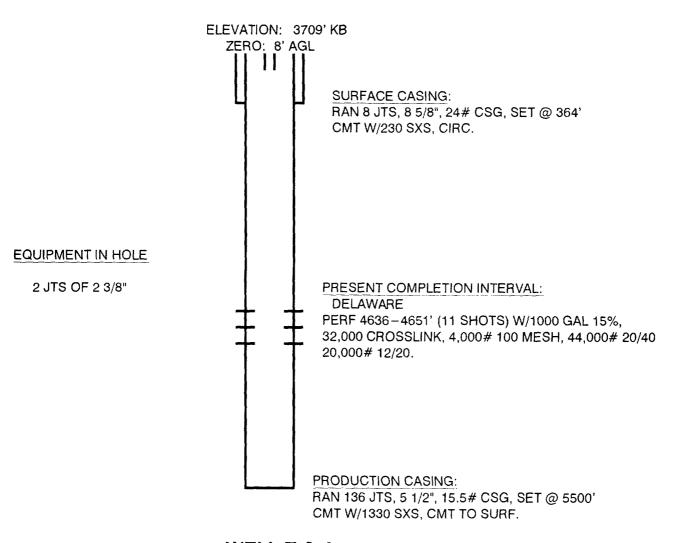
Spudded: 12 1/4" HOLE ON 9/3/87

LOCATION:

990 FSL & 330' FEL SEC 24 T18S R31E EDDY COUNTY, NM

API #: 30-015-25803

CURRENT STATUS



WELL T & A

DRAWN BY: BJG DATE: MAY 13, 1993 TD: 5500' PBTD: 5489'

WELL: GERONIMO FEDERAL #11

FIELD: E. SHUGART DELAWARE

INTERVAL: DELAWARE

Comp: 9/30/87

IP: 50 BOPD, 115 BWPD, 30 MCFGPD (GOR 600)

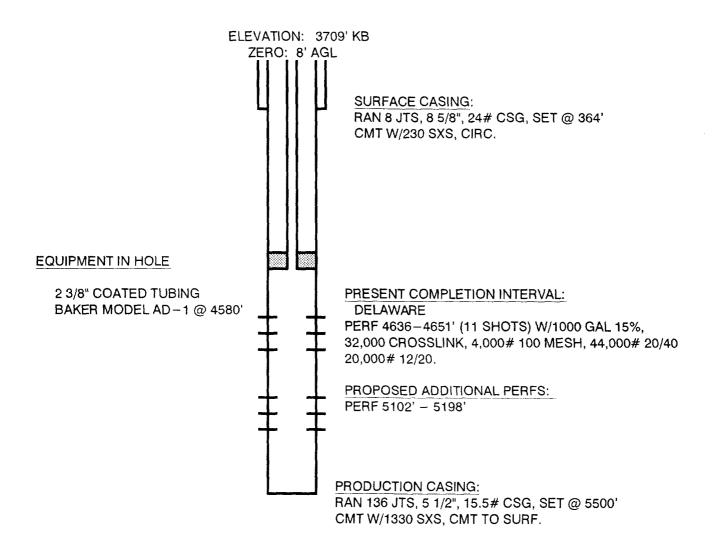
Spudded: 12 1/4" HOLE ON 9/3/87

LOCATION:

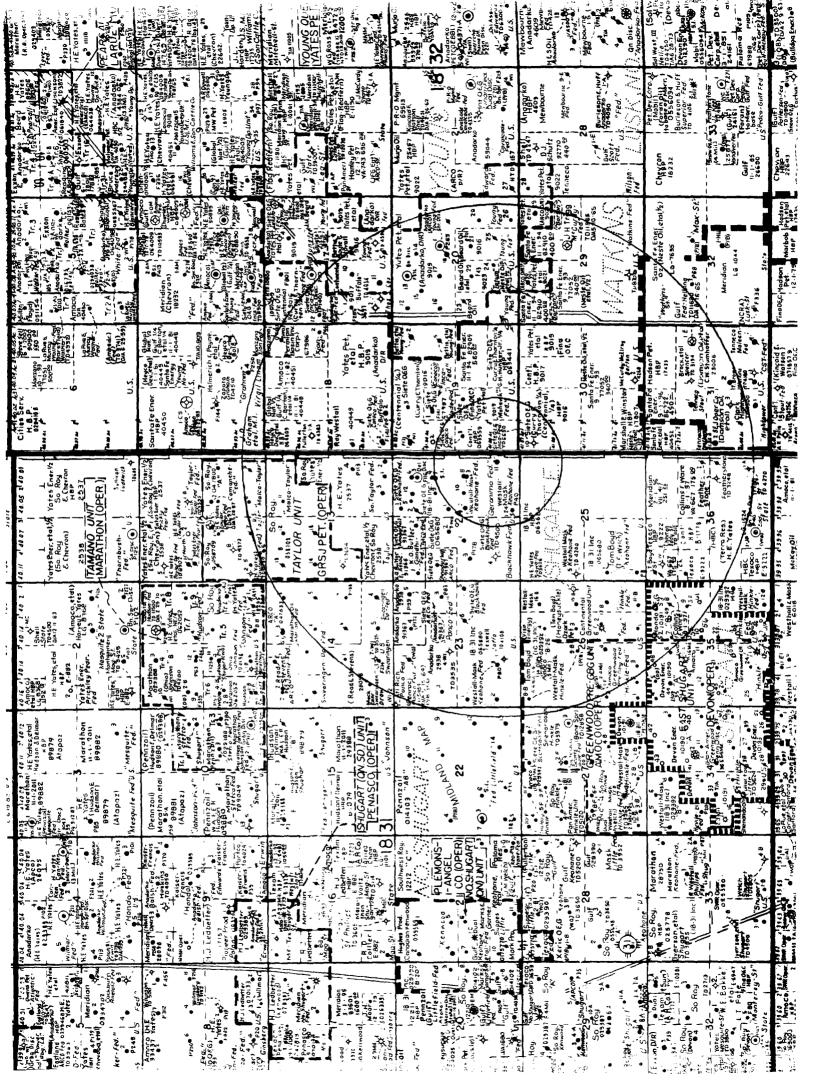
990 FSL & 330' FEL SEC 24 T18S R31E EDDY COUNTY, NM

API#: 30-015-25803

PROPOSED STATUS



DRAWN BY: BJG DATE: MAY 13, 1993 TD: 5500' PBTD: 5489'



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WELL NAME	OPERATOR	L	WELL	DATE	DATE	PBTD	INTERVAL	FORM.	CASING PROGRAM
CONOCO #3	SIETE	2310' FSL & 660' FWL	잍	12/27/87	2/12/88	5650'	5054-5215	DEL	8 5/8" SRF. CSG @ 376', CMT W/230 SKS, CIRC.
		SEC. 19, T18S R32E				5596'			5 1/2" PRD. CSG @ 5636', CMT W/1425 SKS
GERONIMO #1	SIETE	2310' FNL & 2310' FEL	잍	11/7/84	2/17/85	6417'	4268-4285	QPG	8 5/8" SRF. CSG @ 846', CMT W/415 SKS, CIRC.
		SEC. 24, T18S R31E				4748'	3754-3774		5 1/2" PRD. CSG @ 5367', CMT W/900 SKS
GERONIMO #4	SIETE	1650' FNL & 990' FEL	읃	11/30/85 12/20/85	12/20/85	6550'	5016-5074	DEL	13 3/8" SRF. CSG @ 357', CMT W/400 SKS, CIRC.
		SEC. 24, T18S R31E				5321			8 5/8" INT. CSG @ 2248', CMT W/1030 SKS, CIRC.
									5 1/2" PRD. CSG @ 5365', CMT W/840 SKS.
GERONIMO #7	SIETE	1750' FNL & 990' FEL	읃	4/21/86	98/90/5	4500'	4299-4310	QPG	8 5/8" SRF. CSG @ 362', CMT W/230 SKS, CIRC.
		SEC. 24, T18S R31E				4489'	4250-4262		5 1/2" PRD. CSG @ 4499', CMT W/700 SKS, CIRC.
						-	3750-3770		
GERONIMO #8	SIETE	2310' FSL & 990' FEL	읃	9/08/86	10/02/86	5500'	5042-5094	DEL	8 5/8" SRF. CSG @ 350', CMT W/250 SKS, CIRC.
-		SEC. 24, T18S R31E				5441'			5 1/2" PRD. CSG @ 5497', CMT W/910 SKS, CIRC.
GERONIMO #9	SIETE	1730' FNL & 1650' FEL	인	12/01/86	2/02/87	5400'	5022-5072	DEL	8 5/8" SRF CSG @ 345', CMT W/200 SKS, CIRC.
		SEC. 24, T18S R31E		·		5360'	5136-5166		5 1/2" PRD. CSG @ 5400', CMT W/1360 SKS, CIRC.
							5258-5273		
GERONIMO #10	SIETE	2310' FSL & 1650' FEL	읃	3/02/87	3/23/87	5500'	5041-5079	DEL	8 5/8" SRF. CSG @ 350', CMT W/230 SXS, CIRC.
		SEC. 24, T18S R31E				5471'			5 1/2" PRD. CSG @ 5496', CMT W/1300 SKS, CIRC.
GERONIMO #11	SIETE	990' FSL & 330' FEL	읻	9/03/87	9/30/87	5500'	4636-4651	DEL	8 5/8" SRF. CSG @ 364', CMT W/230 SKS, CIRC.
		SEC 24, T18S R31E				5489'			5 1/2" PRD. CSG @ 5499', CMT W/1330 SKS.
INCA #2	SIETE	1700' FNL & 330' FWL	읃	6/08/87	6/28/87	5500'	5259-5274	DEL	8 5/8" SRF. CSG @ 372', CMT W/225 SKS, CIRC.
		SEC 19, T18S R32E				5460			5 1/2" PRD. CSG @ 5500', CMT W/1170 SKS, CIRC.
INCA #10	SIETE	660' FNL & 330' FWL	P&A	5/31/88	6/16/88	6650'			8 5/8" SRF. CSG @ 373', CMT W/230 SKS, CIRC.
	-	SEC 30, 1188 H32E		1 100/70	10/07/70		0700 4400	CBC	
KEOHANE 24-1	WESTALL	330' FSL & 2310' FEL	9	11/30/78 12/27/78	12/27/78	4200	3785-4135	Ded Ded	8 5/8" SHE, CSG @ 685", CMT W/300 SKS.
		SEC. 24, T18S R31E							4 1/2" PHU. CSG @ 4200", CMT W/365 SKS.
KEOHANE 24-2	WESTALL	2310' FSL & 2200' FEL	읃	10/18/85 12/11/85	12/11/85	4500'	4266-4338	QPG	8 5/8" SRF. CSG @ 687', CMT W/410 SKS.
		SEC. 24, T18S R31E				4496'			4 1/2" PRD. CSG @ 4496', CMT W/870 SKS.
KEOHANE 24-3	WESTALL	2200' FSL & 990' FEL	9	10/9/87	11/25/87	4500'	4252-4292'	QPG	8 5/8" SRF, CSG @ 749', CMT W/400 SKS.
		SEC. 24, T18S R31E					4300-4328'		4 1/2" PRD. CSG @ 4500', CMT W/750 SKS.

WELL: INCA FEDERAL #10 FIELD: E. SHUGART DELAWARE

INTERVAL: DELAWARE

Comp:

IP:

Spudded: 12 1/4" HOLE ON 6/1/88

LOCATION:

660' FNL & 330' FWL SEC 30 T18S R32E LEA COUNTY, NM

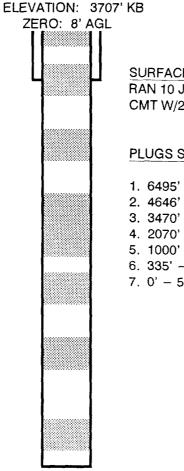
API #: 30-025-30346

CURRENT STATUS

TOPS

- 1. QUEEN 3570'
- 2. GRAYBURG 4060'
- 3. DELAWARE 4746'
- 4. BONE SPRING 6600'

EQUIPMENT IN HOLE



SURFACE CASING:

RAN 10 JTS, 8 5/8", 23# CSG, SET @ 373' CMT W/230 SXS, CIRC.

PLUGS SET AS FOLLOWS:

- 1. 6495' 6595' W/30 SKS.
- 2. 4646' 4746' W/38 SKS.
- 3. 3470' 3570' W/34 SKS.
- 4. 2070' 2270' W/129 SKS.
- 5. 1000' 1100' W/68 SKS.
- 6. 335' 435' W/38 SKS.
- 7. 0' 50' W/16 SKS.

WELL P & A

DRAWN BY: BJG DATE: MAY 13, 1993 TD: 6650' PBTD:

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6/12/88 Amend 6/14/88 Reache DLL-MS commer	TD from 6500' to 66 ed TD 6650' on 6/14/ SFL, EPT & Sonic log rcíal. Plug and aba	11 peritorni details, and provided bendings and become 550'. /88 @ 11:45 AM, R gs from TD to 240	ive perlinent dales red and srue vertic	. taclediag e	timated date	of startiar a
6/14/88 Reache DLL-MS commen	ed TD 6650' on 6/14/ SFL, EPT & Sonic log ccíal. Plug and aba	/88 @ 11:45 AM, R gs from TD to 240	II Schlumber			
6/14/88 Reache DLL-MS commen	ed TD 6650' on 6/14/ SFL, EPT & Sonic log ccíal. Plug and aba	/88 @ 11:45 AM, R gs from TD to 240	II Schlumber			
BLM verbal approva	2. 38 sx plug f 3. 34 sx plug f 4. 129 sx plug 5. 68 sx plug f 6. 38 sx plug f	from 6595'-6495' from 4746'-4646' from 3570'-3470' from 2270'-2070' from 1100'-1000' from 435'-335' (1 from 50'-surface 6/16/88.	(100') (100') (100') (200') (100') 00') (50')		CO SO AN OU	RECEIVED
Bereby surtily that the force IGNED Service for Polocal or Sin	lize m	Production/Re	servoir Engi		6/10	6/88 -7 <i>:</i> 58
CONDITIONS OF APPROVAL	T ANT:	The second secon	FROES			

Siete Oil and Gas Corporation

Geronimo Federal No. 11 - Convert to Injection

NMOCD Form C-108 Sections VII - XIII

- VII. 1. Proposed average daily injection is 400 BWPD.

 Maximum daily injection is 750 BWPD.
 - 2. This will be a closed system.
 - 3. Proposed average injection pressure 700 psi.
 Proposed maximum injection pressure 920 psi*.
 *Note: Maximum injection pressure abides by the .2 psi/ft maximum injection pressure imposed by the NMOCD. Future increases in surface pressure will be obtained administratively from the NMOCD using field obtained "Step Rate Test" data.
 - 4. Chemical analysis of injection and formation water (see attached water analysis).
 - a. Proposed injection fluid will be produced water from offsetting Siete operated leases which currently produce from both the East Shugart Delaware and Shugart Queen/Grayburg Formations. These leases are:

Arco Federal	N/2	NE/4 NE/4 NW/4 NW/4	SEC SEC SEC SEC	23 24	T-18-S T-18-S T-18-S T-18-S	R-31-E
Conoco Federal		SW/4 SW/4	SEC SEC		T-18-S T-18-S	R-32-E R-32-E
Geronimo Federal	E/2		SEC	24	T-18-S	R-31-E
Inca Federal	•	NW/4 NW/4 NW/4	SEC SEC SEC	19	T-18-S T-18-S T-18-S	
Jade Federal	SE/4	NW/4	SEC	19	T-18-S	R-32-E
Mohawk Federal	NE/4	SW/4	SEC	19	T-18-S	R-32-E

5. Water injection will be into a zone productive of oil and gas.

- VIII. 1. The injection interval in the proposed disposal well is in the Cherry Canyon Formation of the Delaware Mountain Group. The Cherry Canyon formation is a very fine to fine grained sandstone of the Guadalupian Series and Permian age. The Cherry Canyon formation occurs at a depth of 4576' (-867 subsea) and has a gross thickness of 516'. The proposed injection interval has a net porous thickness of about 65'. There are no sources of drinking water overlying or underlying the proposed injection interval.
 - IX. The proposed additional perforations will be stimulated similar to the original completion.
 - X. Logs were filed at your office when the well was drilled. This well is currently uneconomic and has been shut-in since 12/92.
 - XI. There are no fresh water wells within one mile of this well.
 - XII. I, Darrin Steed, a Reservoir Engineer for Siete Oil and Gas Corporation and in behalf of, have compiled and examined all available geologic and engineering data and have not found any evidence of hydrologic connections between the proposed injection zone and any sources of underground drinking water.
- XIII. See attached mailing list and registered mail cetificates for Proof of Notice.

EnviroChem, Inc.

WATER ANALYSIS REPORT

SAMPLE

Oil Co. : Siete Oil & Gas Lease :

Geronimo

Federal 2 Well No.: Analysis:

Sample Loc. : Date Sampled:

Injection Pump 27-July-1994

Attention

ANALYSIS

pH Specific Gravity 60/60 F. CaCO₃ Saturation Index @

D	issolved Gas	ses	(110 11)	MG/L	EQ. WT.	*MEQ/L
4. 5. 6.	Hydrogen Su Carbon Diox Dissolved O	lfide ide xygen	Not D	t Present etermined etermined		
<u>c</u>	ations					
7. 8. 9. 10.	Calcium Magnesium Sodium Barium	(Ca ⁺⁺) (Mg ⁺⁺) (Na ⁺) (Ba ⁺)	(Calculated)	10,822 2,431 65,122 etermined	/ 20.1 = / 12.2 = / 23.0 =	538.41 199.26 2,831.39
A	nions		•			
11. 12. 13. 14. 15.	Hydroxyl Carbonate Bicarbonate Sulfate Chloride	(OH ⁻) (CO ₃ -) (HCO ₃ -) (SO ₄ -) (Cl ⁴)		0 0 171 800 125,972	/ 17.0 = / 30.0 = / 61.1 = / 48.8 = / 35.5 =	0.00 0.00 2.80 16.39 3,548.51
16. 17. 18. 19.	Total Disso Total Iron Total Hardn Resistivity	(Fe) ess As Ca		205,318 12 37,033 0.001 /cm.	/ 18.2 =	0.63

LOGARITHMIC WATER PATTERN *meq/L.

╶╫╫╎╽┧┧╶╟╫┧╽┧╏╏┈╠╫┼┧╏╸┡╌╂╶╂┼╂╫╢ HCO₃ ##### **SO4** Mg 10 1 100 1000 10000 10

1480		 	†	 	
1475		 	 		
1470		 	1		1
1465		 	 		1
1460		 	 		
1455		 	 		
1450		 	 		+
1445		 			
1440		 	-		-+
1440					
1430				T	

PROBABLE MINERAL COMPOSITION OUND EQ. WT. X *meq/L = mg/L.

Ca(HCO ₃) ₂	81.04	2.80	227
CaSO ₄	68.07	16.39	1,116
CaCl ₂	55.50	519.22	28,816
Mg(HCO ₃) ₂	73.17	0.00	0
MgSO ₄	60.19	0.00	0
MgCL ₂	47.62	199.26	9,489
NaHCO ₃	84.00	0.00	0
NaSO ₄	71.03	0.00	0
NaCl	58.46	2,830.03	165,443

*Milli Equivalents per Liter

This water is slightly corrosive due to the pH observed on analysis. The corrosivity is increased by the content of mineral salts in solution.

EnviroChem, Inc.

WATER ANALYSIS REPORT

SAMPLE

Siete Oil & Gas Oil Co.:

Lease: Inca 1

Well No.:

Analysis:

Sample Loc. : Battery

Date Sampled: 27-July-1994

Attention

ANALYSIS

pH Specific Gravity 60/60 F. 1.168 CaCO₃ Saturation Index 8 80 F. +1.551 8 140 F. +3.391

EQ. WT. Dissolved Gasses *MEO/L MG/L

4.	Hydrogen Sulfide	Not Present
5.	Carbon Dioxide	Not Determined
6.	Dissolved Oxygen	Not Determined

Cations

7. 8. 9. 10.	Calcium Magnesium Sodium Barium	(Ca ⁺⁺) (Mg ⁺⁺) (Na ⁺) (Ba ⁺⁺)	17,335 3,100 (Calculated) 78,293 Not Determined	/ 20.1 = / 12.2 = / 23.0 =	862.44 254.10 3,404.04
-----------------------	--	---	--	----------------------------------	------------------------------

Anions

754

742

11. 12. 13. 14. 15.	Carbonate (C Bicarbonate (H	H ⁻) O3 ⁻) CO3 ⁻) O4 ⁻)	0 0 195 500 159,964	/ 17.0 = / 30.0 = / 61.1 = / 48.8 = / 35.5 =	0.00 0.00 3.19 10.25 4,506.03
16. 17.	Total Dissolve Total Iron (F		259,387 9	/ 18.2 =	0.49

17. 18.

Total Iron (Fe) 9
Total Hardness As CaCO₃ 56,050
Resistivity @ 75 F. (Calculated) 0.001 /cm. 19.

LOGARITHMIC WATER PATTERN

LOGARITHMIC WATER PATTERN *meq/L.	PROBABI COMPOUND	LE MINERAL EQ. WT. X	COMPOSI *meq/L	
Na	Ca(HCO ₃) ₂	81.04	3.19	259
Ca	CaSO ₄	68.07	10.25	697
Mg	CaCl ₂	55.50	849.00	47,120
Fe 1111 1111 CO3	Mg(HCO ₃) ₂	73.17	0.00	0
10000 1000 100 10 1 10 100 1000 10000	MgSO ₄	60.19	0.00	0
Calcium Sulfate Solubility Profile	MgCL ₂	47.62	254.10	12,100
784 776 772	NaHCO ₃	84.00	0.00	0
766 760	NaSO ₄	71.03	0.00	0

*Milli Equivalents per Liter This water is slightly corrosive due to the pH observed on analysis. The corrosivity is increased by the content of mineral salts in solution.

NaCl

58.46 3,402.93 198,935

EnviroChem, Inc.

WATER ANALYSIS REPORT

SAMPLE

Analysis:

Oil Co. : Siete Oil & Gas Lease: Anadarko Tyke Well No.: Federal #1

Sample Loc. : Water Tank
Date Sampled : 27-July-1994

Attention

ANALYSIS

pH 6.500 Specific Gravity 60/60 F. 1.128 CaCO₃ Saturation Index 8 80 F. +0.561 8 140 F. +1.671

D	issolved Gass	<u>ses</u>		MG/L	EQ. I	T.	*MEQ/L
4. 5. 6.	Hydrogen Su Carbon Diox Dissolved O	lfide ide Ky gen	Not De	71 220 stermined			
Č	ations						
7. 8. 9. 10.	Calcium Magnesium Sodium Barium	(Ca ⁺⁺) (Mg ⁺⁺) (Na ⁺) (Ba ⁺⁺)	(Calculated)	10,120 1,763 60,072 etermined	/ 20. / 12. / 23.	1 = 2 = 5 =	503.48 144.51 2,611.83
X	nions						
11. 12. 13. 14. 15.	Hydroxyl Carbonate Bicarbonate Sulfate Chloride	(OH ⁻) (CO ₃) (HCO ₃) (SO ₄) (Cl ²)		0 0 142 850 114,974	/ 17. / 30. / 61. / 48. / 35.	0 = 1 = 8 = 5 =	0.00 0.00 2.32 17.42 3,238.70
16. 17. 18. 19.	Total Disso. Total Iron Total Hardne Resistivity	lved Sol (Fe) ess As C e 75 F.	ids aCO3 (Calculated)	187,921 14 32,529 0.007 /cm.	/ 18.	2 =	0.77
	LOGARITHNIC	WATER P.	ATTERN	PROB	ABLE N	INER	AL COMPOSIT

	*meq/L.	COMPOUND	BO. WI. X	*meq/L	= mg/L.
Na		Ca(HCO ₃) ₂	81.04	2.32	188
Ca	11111 MULT MILLE MILLE THE THE THE THE THE THE THE	CaSO4	68.07	17.42	1,186
Mg	#### #### 111## SO4	CaCl ₂	55.50	483.74	26,848
Pe	CO3	Mg(HCO ₃) ₂	73.17	0.00	0
10	000 1000 100 10 1 10 100 1000 10000	MgSO ₄	60.19	0.00	0
	Calcium Sulfate Solubility Profile	MgCL ₂	47.62	144.51	6,881
	1104	NaHCO3	84.00	0.00	O
•		NaSO4	71.03	0.00	0
•	4110	NaCl	58.46 2	,610.46	152,607

*Milli Equivalents per Liter 450 This water is slightly corrosive due to the pH observed on analysis.

The corrosivity is increased by the content of mineral salts, and the presence of H2S, CO2, Oxygen in solution.

Names and Addresses

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

Oil Conservation Division P. O. Drawer DD Artesia, New Mexico 88210

Ray Westall Operation, Inc. Box 4 Loco Hills, New Mexico 88255

Bureau of Land Management P. O. Box 1778 Carlsbad, New Mexico 88220

Commissioner of Public Lands P. O. Box 1148 Santa Fe, New Mexico 87504-1148

ur RETURN ADDRESS completed on the reverse side?	SENDER: • Complete items 1 and/or 2 for additional services. • Complete items 3, and 4a & b. • Print your name and address on the reverse of this form so the return this card to you. • Attach this form to the front of the mailpiece, or on the back it does not permit. • Write "Return Receipt Requested" on the mailpiece below the artient "The Return Receipt will show to whom the article was delivered and elivered. 3. Article Addressed to: Standard Hall Standard	f space cle number. nd the date 4a Arti 4b. Ser Regis Certi Expr. 7. Date 8. Addi	icle Number 3	Thank you for using Return Receipt Service.
ls your RE	6. Signature (Agent) PS Form 3811 , December 1991 &U.S. GPO: 1993—352	-714 D (OMESTIC RETURN RECEIPT	F

on the reverse side?	SENDER: • Complete items 1 and/or 2 for additional services. • Complete items 3, and 4a & b. • Print your name and address on the reverse of this form so the return this card to you. • Attach this form to the front of the mailpiece, or on the back is does not permit. • Write "Return Receipt Requested" on the mailpiece below the article The Return Receipt will show to whom the article was delivered a delivered.	f space icle number.	I also wish to receive the following services (for an extra fee): 1.	leceipt Service.	श्रम्माव्यक्त ्यक्तात्वर । ज्यास्त्र	Te seğeşiği
your RETURN ADDRESS completed	3. Article Addressed to: Signature (Addressee) 6. Signature (Agent) PS Form 3811 December 1991 ALLS GRO 1993 355	P 30 4b. Ser Regi Cert Expr 7. Date	vice Type stered	Than		
s Y	PS Form 3811 , December 1991 \$\psi U.S. GPO: 1993—352	-714 D	OMESTIC RETURN RECEIPT	•		

State of New Mexico, County of Lea.

I, Kathi Bearden

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.

General Manager

One weeks.

Beginning with the issue dated

August 26 , 19 94

and ending with the issue dated

August 26 , 19 94

Manufact 26 , 19 94

General Manager

Sworn and subscribed to before

me this _______30

_ day of

Charlese Kerrin

Notary Public.

My Commission expires March 15, 1997 (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 August 26, 1994

This is to advise all parties concerned, Siete Oil and Gas Corporation intends to convert the following well to Salt Water Disposal.

Geronimo Federal #11 990' FSL & 330' FEL Section 24, T-18-S, R-31-E Eddy County, New Mexico

The formation to be injected into is the Delaware at a depth of 4636' - 5200'. The maximum expected injection rate is 750 BWPD at a maximum injection pressure of 920 psi. Questions can be addressed to:

Siete Oil and Gas Corporation P.O. Box 2523 Roswell, New Mexico 88202

Attention: Darrin Steed Phone: (505) 622-2202

Interested parties must file objections or requests for hearing within 15 days of this notice to the:

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

Affidavit of Publication

State of New Mexico,
County of Eddy, ss.
Amy McKay,
being first duly sworn, on oath says:
That aho is Business Manager
That she is Business Manager of the Carlsbad Current-Argus, a newspaper pub-
lished daily at the City of Carlsbad, in said county
of Eddy, state of New Mexico and of general paid
circulation in said county; that the same is a duly
qualified newspaper under the laws of the state
wherein legal notices and advertisements may be published; that the printed notice attached hereto
was published in the regular and entire edition of
said newspaper and not in supplement thereof on
the date as follows, to wit:
August 26 19 94
,19
,19
,19
That the cost of publication is \$\(\frac{21.61}{\} \), and that payment thereof has been made and will
be assessed as court costs.
anylvelle
0
Subscribed and sworn to before me this
19th day of Softember, 1994
aloma (rump
My commission expires 08/01/98
Notary Public

August 26, 1994

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