



COASTAL MANAGEMENT CORPORATION
OIL AND GAS PROJECT MANAGEMENT

VIA FEDERAL EXPRESS
Tracking No. 5320102060

January 6, 1998

Mr. David R. Catanach
State of New Mexico
Oil Conservation Division
2040 Pacheco Street
Santa Fe, New Mexico 87505

Re: Convert to Injection Application
Parkway Delaware Unit No. 506
Eddy County, New Mexico

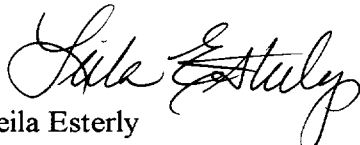
Dear Mr. Catanach:

Please find enclosed our application to convert the captioned well to injection. Please note that the application was forwarded to interested parties on December 19, 1997 and received by them between the dates of December 22, 1997 and December 29, 1997. I ask that the 15-day notice start on December 29, 1997.

I would like to thank you in advance for your immediate attention to this matter. Should you have any questions or require additional information, please feel free to contact the undersigned at 915-688-0756.

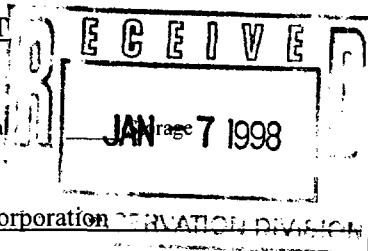
Sincerely,

COASTAL MANAGEMENT CORPORATION


Leila Esterly
Regulatory Coordinator

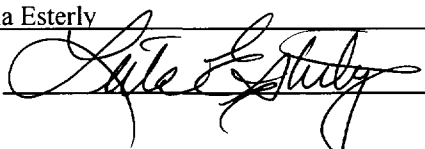
Enclosures
/le

APPLICATION FOR AUTHORIZATION TO INJECT



- I. PURPOSE: X Secondary Recovery Pressure Maintenance Disposal
Application qualifies for administrative approval? Yes No
- II. OPERATOR: St. Mary Land & Exploration Company, c/o Coastal Management Corporation
ADDRESS: P.O. Box 2726, Midland, Texas 79702-2726
CONTACT PARTY: Leila Esterly PHONE: 915-688-0756
- III. WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection.
Additional sheets may be attached, if necessary.
- IV. Is this an expansion of an existing project: X Yes No
If yes, give the Division order number authorizing the project R-9822
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well within 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:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such 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 source drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certifications: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Leila Esterly TITLE: Regulatory Coordinator

SIGNATURE:  DATE: December 16, 1997

* If the information required under Section 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. June 26, 1993

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and
- (4) A notation that interested parties must file objection or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87504-2088 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.

PARKWAY DELAWARE UNIT NO. 506

OFFSET OPERATORS AND INTERESTED PARTIES

OFFSET OPERATORS

Presidio Exploration, Inc.
5613 DTC Parkway, Suite 750
P.O. Box 6525
Englewood, CO 80155-0625
303-773-0100

Burlington Resources Oil & Gas Co.
P.O. Box 51810
Midland, Texas 79710-1810
915-688-6800

SURFACE OWNERS

Department of the Interior
Bureau of Land Management
2909 W. Second Street
Roswell, New Mexico 88201

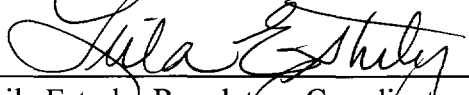
Commissioner of Public Lands
State of New Mexico
P.O. Box 1148
Santa Fe, New Mexico 87504-1148

COUNTY CLERK

Eddy County Clerk
Attn: County Clerk
P.O. Box 850
Carlsbad, New Mexico 88221-0850

Reference XIV "Proof of Notice" of NMOC Form C-108 Instructions

I, Leila Esterly, certify that copies of the application were mailed to the above affected parties at the addresses listed.



Leila Esterly, Regulatory Coordinator
for Coastal Management Corporation

Date Mailed: December 19, 1997



COASTAL MANAGEMENT CORPORATION
OIL AND GAS PROJECT MANAGEMENT

VIA CERTIFIED MAIL P 245 753 534

December 19, 1997

Eddy County Clerk
Attn: County Clerk
P.O. Box 850
Carlsbad, New Mexico 88221-0850

Re: Parkway (Delaware) Field
Parkway Delaware Unit No. 506
Section 35, Township 19 South, Range 29 East
Eddy County, New Mexico

Gentlemen:

Attached please find Coastal Management Corporation's (Operator for St. Mary Land & Exploration Company) application to the Oil Conservation Division of the State of New Mexico to convert the captioned well into an injection well.

Should you have any questions, please feel free to contact the undersigned at 915-688-0756.

Sincerely,

COASTAL MANAGEMENT CORPORATION

Leila Esterly
Regulatory Coordinator

Enclosures
/le

- Stick postage stamps to article to cover First-Class postage, certified mail fee, and charges for any selected optional services (See front).**
- If you want this receipt postmarked, stick the gummed stub to the right of the return address leaving the receipt attached, and present the article at a post office service window or hand it to your rural carrier (no extra charge).
 - If you do not want this receipt postmarked, stick the gummed stub to the right of the return address of the article, date, detach, and retain the receipt, and mail the article.
 - If you want a return receipt, write the certified mail number and your name and address on a return receipt card, Form 3811, and attach it to the front of the article by means of the RETURN RECEIPT REQUESTED adjacent to the number. Endorse front of article addressee, endorse RESTRICTED DELIVERY on the front of the article.
 - Enter fees for the services requested in the appropriate spaces on the front of this receipt. If return receipt is requested, check the applicable blocks in item 1 of Form 3811.
 - Save this receipt and present it if you make an inquiry.

SENDER:

Fill in items 1 and/or 2 for additional services.

Fill in items 3, 4a, and 4b. Put name and address on the reverse of this form so that we can return this to you.

Return Receipt Requested on the mailpiece below the article number. Return Receipt will show to whom the article was delivered and the date delivered.

Article Addressed to:

DDY COUNTRY CLUB

P.O. BOX 850

CARLSBAD, NM 88221-0850

4a. Article Number

P 245 753 534

4b. Service Type

- ☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☒ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

Received By: (Print Name)

Jane Tate

Signature: (Addressee or Agent)

X Jane Tate

8. Addressee's Address (Only if requested and fee is paid)

23 DEC 1997

PS Form 3811, December 1994

Domestic Return Receipt

Thank you for using Return Receipt Service.



COASTAL MANAGEMENT CORPORATION
OIL AND GAS PROJECT MANAGEMENT

VIA CERTIFIED MAIL P 245 753 535

December 19, 1997

Presidio Exploration, Inc.
5613 DTC Parkway, Suite 750
P.O. Box 6525
Englewood, CO 80155-0625

Re: Parkway (Delaware) Field
Parkway Delaware Unit No. 506
Section 35, Township 19 South, Range 29 East
Eddy County, New Mexico

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COASTAL MANAGEMENT CORPORATION
OIL AND GAS PROJECT MANAGEMENT

VIA CERTIFIED MAIL P 245 753 536

December 19, 1997

Burlington Resources Oil & Gas Co.
P.O. Box 51810
Midland, Texas 79710-1810

Re: Parkway (Delaware) Field
Parkway Delaware Unit No. 506
Section 35, Township 19 South, Range 29 East
Eddy County, New Mexico

Gentlemen:

Attached please find Coastal Management Corporation's (Operator for St. Mary Land & Exploration Company) application to the Oil Conservation Division of the State of New Mexico to convert the captioned well into an injection well.

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Regulatory Coordinator

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 4. If you want delivery restricted to the addressee, or to an authorized agent of the addressee, endorse **RESTRICTED DELIVERY** on the front of the article.
 5. Enter fees for the services requested in the appropriate spaces on the front of this receipt. If return receipt is requested, check the applicable blocks in item 1 of Form 3811.
 6. Save this receipt and present it if you make an inquiry.

Side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.

If your name and address on the reverse of this form so that we can return this to you.

Each this form to the front of the mailpiece, or on the back if space does not permit.

The Return Receipt Requested on the mailpiece below the article number.

The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
 2. ☐ Restricted Delivery
- Consult postmaster for fee.

4a. Article Number

P 245 753 536

4b. Service Type

- ☐ Registered ☒ Certified
- ☐ Express Mail ☐ Insured
- ☒ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

DEC 22 1994

8. Addressee's Address (Only if requested and fee is paid)

Received By: (Print Name)

Signature (Addressee or Agent)

X *[Signature]*

Article Addressed to:

WILKINSON RESOURCES INC
PO BOX 51810
INDIAN, TX 79710

PS Form 3800, April 1995 (PSN 7530-01-000-9048)

Form 3811, December 1994

Domestic Return Receipt

Thank you for using Return Receipt Service.



COASTAL MANAGEMENT CORPORATION
OIL AND GAS PROJECT MANAGEMENT

VIA CERTIFIED MAIL P 245 753 537

December 19, 1997

Department of the Interior
Bureau of Land Management
2909 W. Second Street
Roswell, New Mexico 88201

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Parkway Delaware Unit No. 506
Section 35, Township 19 South, Range 29 East
Eddy County, New Mexico

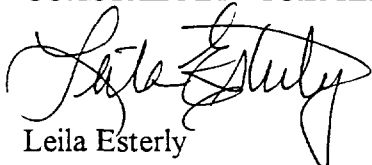
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Addressed to: DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT 19 W. SECOND ST. SWEET, NM 88201		4a. Article Number <u>P245 453 531</u> 4b. Service Type ☐ Registered ☐ Express Mail ☒ Return Receipt for Merchandise ☐ Certified ☐ Insured ☐ COD	
Received By: (Print Name) <u>James E. Hall</u>		7. Date of Delivery <u>12-22-97</u>	
Signature: (Addressee or Agent) <u>James E. Hall</u>		8. Addressee's Address (Only if requested and fee is paid)	

Thank you for using Return Receipt Service.



COASTAL MANAGEMENT CORPORATION

OIL AND GAS PROJECT MANAGEMENT

VIA CERTIFIED MAIL P 245 753 538

December 19, 1997

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

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Parkway Delaware Unit No. 506
Section 35, Township 19 South, Range 29 East
Eddy County, New Mexico

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Article Addressed to: MISSIONS OF PUBLIC LANDS OFFICE OF NEW MEXICO P.O. BOX 1148 SANTA FE, NM 87504-1148		4a. Article Number P 245 753 538	
Received By: (Print Name) [Signature] Signature: (Addressee or Agent)		4b. Service Type ☐ Registered ☐ Express Mail ☒ Return Receipt for Merchandise ☐ COD 7. Date of Delivery: DEC 29 1997	
PS Form 3800, April 1995 (Reverse)		8. Addressee's Address (Only if requested and fee is paid) SANTA FE, NM 87501-5897	

PS Form 3811, December 1994

Domestic Return Receipt

Thank you for using Return Receipt Service.

Affidavit of Publication

No 18198

State of New Mexico,
County of Eddy, ss.

Amy McKay,
being first duly sworn, on oath says:

That she is Business Manager
of the Carlsbad Current-Argus, a newspaper published 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:

December 30, 1997
_____, 19____
_____, 19____
_____, 19____
_____, 19____
_____, 19____

That the cost of publication is \$ 31.33,
and that payment thereof has been made and will
be assessed as court costs.

Amy McKay

Subscribed and sworn to before me this
2nd day of January, 1998

Donna Crump

My commission expires 8/1/98
Notary Public

December 30, 1997

NOTICE OF APPLICATION FOR FLUID INJECTION WELL PERMIT

Coastal Management Corporation (Operator for St. Mary Land & Exploration Company), P.O. Box 2726, Midland, Texas 79702, is applying to the State of New Mexico, Oil Conservation Division for a permit to inject fluid into a formation that is productive of oil and gas. The applicant proposes to inject fluid into the Delaware formation, Parkway Delaware Unit No. 506. The expected maximum pressure will be 2500 psi and the expected maximum injection volume will be 500 BWP. The well is located in the NW4 of the SE4 of Section 35, Township 19 South, Range 29 East in the Parkway (Delaware) Field in Eddy County, New Mexico. Fluid will be injected into the subsurface depth interval from 4127' - 4203'.

Requests for a public hearing from persons who can show they are adversely affected, should be submitted in writing, within fifteen (15) days of publication, to the Oil Conservation Division of the State of New Mexico, 2040 S. Pacheco, Santa Fe, New Mexico 87505 (Telephone 505-827-7131). Requests for further information concerning any aspect of the application should be directed to Leila Esterly at Coastal Management Corporation, P.O. Box 2726, Midland, Texas 79702-2726 (Telephone: 915-688-0700).

PARKWAY DELAWARE UNIT
Parkway Delaware Unit No. 506 - Convert to Injection

NMOC Form C-108 (Attachment)

III. Well Data

A. Injection Well Information (Schematic Attached)

1. Lease: Parkway Delaware Unit
Well No.: 506
Location: 2635' FSL & 2640' FEL
2. Casing: 20" @ 350' w/325 sx, circ to surf. (hole 26")
13 3/8" @ 1185' w/315 sx, circ to surf. (hole 17 1/2")
8 5/8" @ 3200' w/1065 sx (hole 12 1/4")
5 1/2" @ 4750' w/625 sx (hole 7 7/8")
TOC @ 3197' determined by DLMS-GR Log
3. Injection Tubing: ±128 jts. 2-3/8", 4.7 lb./ft., J-55 Dual Line Fiber Coated
4. Seating Nipple set @ 4025'

B. Other Well Information

1. Injection Formation: Delaware
Field: Parkway Delaware
2. Existing Perforations: 4127' - 4136' and 4138' - 4203'
3. This well was permitted to be an injection well, but was completed as a producer by Siete Oil and Gas Company in 1993.
4. There are no other perforated or tested intervals in this well.
5. Within the area of this project, the Yates formation is a marginal producing zone at ±1440'.

FIELD: PARKWAY; EDDY Co., NM
 LOC: 2635' FSL; 2640' FEL; Sec35; T-19-S, R-2E-
 ELEV: 3311' (0.0' above)
 DATE: 12/18/97 BY: Leila Esterly

CASING RECORD

SURFACE CASING

O.D.	#/ft	GRADE	CONN	SET AT
13.375	68.00	K-55		1185'

INTERMEDIATE CASING

O.D.	#/ft	GRADE	CONN	SET AT
8.625	24.00	J-55		3200'
	32.00	K-55		3200'

PRODUCTION CASING

O.D.	#/ft	GRADE	CONN	SET AT
5.500	17.00	J-55		4750'

TUBING

O.D.	#/ft	GRADE	CONN	SET AT
2.375	0.00			0 - 4025'

WELL HISTORY

4127' - 36' w/20 perfs
 4138' - 4203' w/132 perfs
 4127' - 4203' 3000 gals 15% HCL, 47500 Gals
 30# XL, 3000# 100 Mesh, 96400#
 20/40, 75600# 12/20

13.375" csg @ 1185' w/ 640 sx (CIRC)

12.250" hole

DV Tool

TOC = 3197'
 (DLGR)

8.625" csg @ 3200' w/1065 sx

7.875" hole

2.375" tbg @ 4025'

Cmpl fm 4127- 0' (DELA)

@ 4705'

5.50" csg @ 4750' w/ 625 sx

T.D. = 4750' PBTD: 4705'

Comments: Permit as inj, compl. as prod

**PARKWAY DELAWARE UNIT
AREA OF REVIEW**

STATUS	WELL NAME	WELL NAME PRIOR TO UNIT	OPERATOR	LOCATION	TYPE OF WELL	SPUD DATE	COMP. DATE	TD	PRTD	COMP. INTERVAL	CASING RECORD
Active	Parkway Delaware Unit No. 201	Apache Federal No. 1-A	St. Mary Land & Exploration Co. c/o Coastal Management Corporation	Section 35, T19S, R29E 890' FNL & 990' FEL	Oil	3/22/89	4/12/89	4550'	4501'	4221' - 4239'	13 3/8" @ 359' w/955 SXS 8 5/8" @ 3200' w/1885 SXS 5 1/2" @ 4549' w/400 SXS
Active	Parkway Delaware Unit No. 202	Apache Federal No. 2-A	St. Mary Land & Exploration Co. c/o Coastal Management Corporation	Section 35, T19S, R29E 990' FNL & 1980' FEL	Oil	4/3/89	4/22/89	4550'	4504'	4136' - 4229'	13 3/8" @ 365' w/378 SXS 8 5/8" @ 3210' w/2300 SXS 5 1/2" @ 4550' w/500 SXS
Active	Parkway Delaware Unit No. 203	Apache Federal No. 3-A	St. Mary Land & Exploration Co. c/o Coastal Management Corporation	Section 35, T19S, R29E 990' FNL & 2310' FNL	Oil	4/13/89	6/16/89	4550'	4546'	3949' - 4264'	8 5/8" @ 3200' w/2700 SXS 5 1/2" @ 4550' w/540 SXS 13 3/8" @ 353' w/450 SXS
Active	Parkway Delaware Unit No. 204	Apache Federal No. 4-A	St. Mary Land & Exploration Co. c/o Coastal Management Corporation	Section 35, T19S, R29E 990' FNL & 940' FNL	Injector	7/13/89	8/16/89	4550'	4505'	4295' - 4461'	8 5/8" @ 3200' w/4145 SXS 5 1/2" @ 4550' w/425 SXS 13 3/8" @ 365' w/500 SXS
Active	Parkway Delaware Unit No. 301	Renegade Federal No. 2	St. Mary Land & Exploration Co. c/o Coastal Management Corporation	Section 35, T19S, R29E 1980' FNL & 1980' FEL	Oil	11/16/88	12/3/88	5000'	4958'	4190' - 4211'	8 5/8" @ 3201' w/790 SXS 5 1/2" @ 5000' w/350 SXS 13 3/8" @ 363' w/700 SXS
Active	Parkway Delaware Unit No. 302	Renegade Federal No. 3	St. Mary Land & Exploration Co. c/o Coastal Management Corporation	Section 35, T19S, R29E 2230' FNL & 760' FNL	Injector	11/15/88	1/26/89	5000'	4298'	4127' - 4142'	8 5/8" @ 3202' w/1790 SXS 5 1/2" @ 5000' w/450 SXS 20" @ 258' w/720 SXS
Active	Parkway Delaware Unit No. 303	NA	St. Mary Land & Exploration Co. c/o Coastal Management Corporation	Section 35, T19S, R29E 1420' FNL & 2500' FNL	Injector	5/17/93	6/10/93	4800'	4764'	4247' - 4138'	13 3/8" @ 1180' w/1050 SXS 8 5/8" @ 3200' w/1615 SXS 5 1/2" @ 4800' w/485 SXS
Active	Parkway Delaware Unit No. 304	NA	St. Mary Land & Exploration Co. c/o Coastal Management Corporation	Section 35, T19S, R29E 1485' FNL & 1485' FEL	Injector	4/22/87	6/25/97	4430'		4164' 4261'	13 3/8" @ 356' w/540 SXS 9 5/8" @ 1500' w/535 SXS 7" @ 3045' w/350 SXS
Active	Parkway Delaware Unit No. 401	Renegade Federal No. 1	St. Mary Land & Exploration Co. c/o Coastal Management Corporation	Section 35, T19S, R29E 1980' FNL & 1980' FNL	Oil	6/16/88	10/22/88	5800'	5752'	3940' - 4058'	13 3/8" @ 357' w/665 SXS 5 1/2" @ 5785' w/2915 SXS 13 3/8" @ 353' w/350 SXS
Active	Parkway Delaware Unit No. 501	Osage Federal No. 1	St. Mary Land & Exploration Co. c/o Coastal Management Corporation	Section 35, T19S, R29E 1980' FSL & 1980' FEL	Oil	7/18/88	8/12/88	5910'	5848'	4135' - 4168'	8 5/8" @ 3193' w/2860 SXS 5 1/2" @ 5908' w/620 SXS
Active	Parkway Delaware Unit No. 502	Osage Federal No. 2	St. Mary Land & Exploration Co. c/o Coastal Management Corporation	Section 35, T19S, R29E 1980' FSL & 1980' FNL	Oil	10/2/88	10/24/88	5000'	4948'	4157' - 4187'	13 3/8" @ 363' w/740 SXS 5 1/2" @ 4993' w/1550 SXS
Active	Parkway Delaware Unit No. 503	Osage Federal No. 3	St. Mary Land & Exploration Co. c/o Coastal Management Corporation	Section 35, T19S, R29E 660' FSL & 1980' FNL	Oil	11/2/88	11/22/88	5000'	4933'	4201' - 4222'	13 3/8" @ 360' w/755 SXS 8 5/8" @ 3218' w/2295 SXS 5 1/2" @ 5000' w/400 SXS
Shut-in	Parkway Delaware Unit No. 504	Osage Federal No. 4	St. Mary Land & Exploration Co. c/o Coastal Management Corporation	Section 35, T19S, R29E 660' FSL & 1980' FNL	Oil	12/1/88	12/30/88	5000'	4948'	4018' - 4120'	13 3/8" @ 381' w/400 SXS 8 5/8" @ 3200' w/1405 SXS 5 1/2" @ 5000' w/420 SXS
Active	Parkway Delaware Unit No. 505	Osage Federal No. 5	St. Mary Land & Exploration Co. c/o Coastal Management Corporation	Section 35, T19S, R29E 1980' FSL & 760' FNL	Injector	11/30/88	1/10/89	5000'	4958'	4135' - 4150'	13 3/8" @ 364' w/500 SXS 8 5/8" @ 3200' w/800 SXS 5 1/2" @ 5000' w/450 SXS
Active	Parkway Delaware Unit No. 507	NA	St. Mary Land & Exploration Co. c/o Coastal Management Corporation	Section 35, T19S, R29E 2628' FSL & 1485' FEL	Injector	4/6/87	6/25/97	4400'	4385'	4164' - 4280'	13 3/8" @ 365' w/805 SXS 8 5/8" @ 3200' w/2300 SXS 5 1/2" @ 4500' w/625 SXS
Active	Parkway Delaware Unit No. 701	Apache Federal No. 1	St. Mary Land & Exploration Co. c/o Coastal Management Corporation	Section 35, T19S, R29E 1980' FSL & 990' FEL	Oil	12/12/88	2/1/89	4500'	4453'	4182' - 4218'	13 3/8" @ 344' w/625 SXS 8 5/8" @ 3200' w/2300 SXS 5 1/2" @ 4500' w/650 SXS
Active	Parkway Delaware Unit No. 702	Apache Federal No. 2	St. Mary Land & Exploration Co. c/o Coastal Management Corporation	Section 35, T19S, R29E 1980' FNL & 990' FEL	Oil	3/9/89	4/18/89	4549'	4492'	4176' - 4210'	13 3/8" @ 3200' w/2300 SXS 8 5/8" @ 3200' w/2300 SXS 5 1/2" @ 4500' w/650 SXS

**PARKWAY DELAWARE UNIT
AREA OF REVIEW**

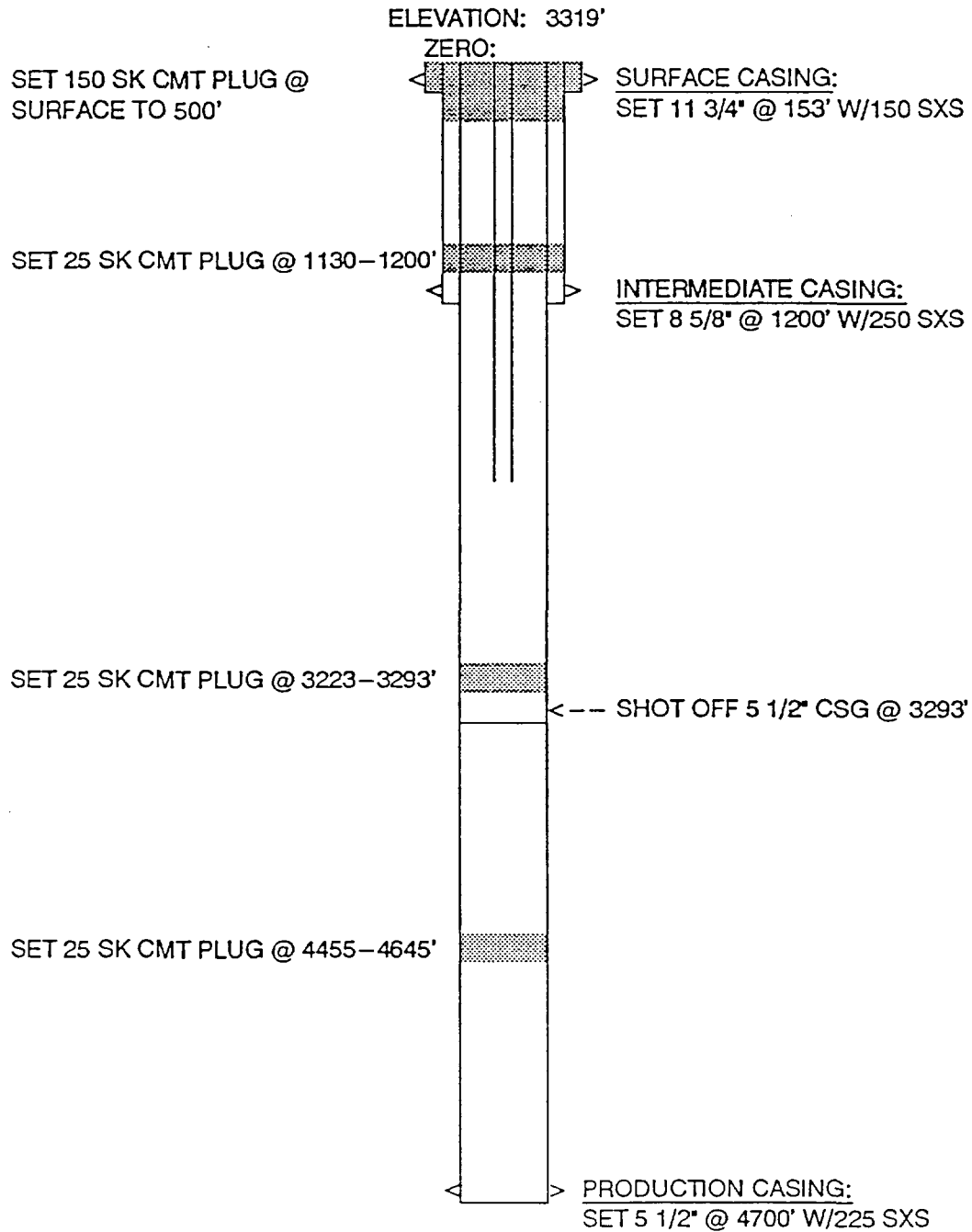
STATUS	WELL NAME	WELL NAME PRIOR TO UNIT	OPERATOR	LOCATION	TYPE OF WELL	SPUD DATE	COMP. DATE	TD	PBTD	COMP. INTERVAL	CASING RECORD
Shut-in	Parkway Delaware Unit No. 801	Longknife Federal No. 1	St. Mary Land & Exploration Co. c/o Coastal Management Corporation	Section 35, T19S, R29E 660' FSL & 810' FEL	Oil	12/13/88	3/1/89	6000'	5980'	5830' - 5936'	10 3/4" @ 370' w/350 SXS 7" @ 3200' w/100 SXS 4 1/2" @ 4850' w/450 SXS

SILETE OIL & GAS CORPORATION

WELL: #1-35 FEDERAL WALTER
FIELD: WILDCAT
INTERVAL: BONE SPRING
Comp: 1/9/56
IP: NONE
Spudded: 11/22/55

LOCATION:
660' FN & 660' FW
SEC 35 20S 29E
EDDY COUNTY, NM

API #:



DRAWN BY: BJB

TD: 6014'

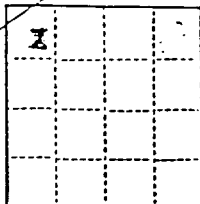
Form 9-331a
(Feb. 1954)

(SUBMIT IN TRIPLICATE)

Land Office _____

Lease No. W.M. 31523-A

Unit _____


 UNITED STATES
 DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

JUN 10 AM 2.20

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	☒
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	☒
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

_____, 19 56
 Well No. 1-35 is located 560 ft. from [N] line and 50 ft. from [W] line of sec. 35
W.M. of Section 35
 (1/4 Sec. and Sec. No.)

T.10-S
 (Twp.)

R.10-E
 (Range)

T.10-E
 (Meridian)

Willcox
 (Field)

Willcox
 (County or Subdivision)

Arizona
 (State or Territory)
The elevation of the derrick floor above sea level is 309 ft. (D.F.)

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spotted 25 cu. cement plug 1157-1164'. Shot off 5-1/8" casing at 1191' and recovered 1191' to 1198' casing.

Spotted 25 cu. cement plugs at 1193-1194' and 1199-1200' and 150 cu. cement from surface to 1191'.

The well was plugged and abandoned January 10, 1956, and sealed with a 4" C.P. piece of pipe rising vertically 4' above ground level.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Union Oil Company of CaliforniaAddress 610 West Tenth AvenueWillcox, Arizona

By

R.W. Yarnall

Title

Assistant Division Engineer

EDDY

WILDCAT

STATE N.M. KROENLEIN 2310-56

Union Oil Co. of Calif - #1-35 - Fed. Elev 3319'

Walter

660' FNL & FWL

Sec. 35, T. 19S, R. 29E

CASING RECORD

11 3/4- 153-150
5/8- 1200-250
5 1/2- 4700-225

TOP

Anhy 195
S/Salt 257
S/Salt 1143
Yates 1335
Dela Sd. 3940
Bone Springs 5690

11-22-55 1-9-56

PCA

TP

TD 601 1/2' Li.

FTD

Swb. 100% SW

CONT'D. PAGE 2

EDDY, N.W. SEC: 35-19S-29E
Union Oil Co. - #1-35 - Fed Walter

K-23
PAGE 2

Ord. 1327-79 rec. 52'; 10' hard dse dolo, 5-1/2' dolo
fxln stn. on vert frac. 16' dolo shale ptgs. 6-1/2'
sand grey some fluor por bldg. oil, 4' dolo hard
dse NS. 10' lite grey sand, fluor bldg oil.

Ord. 3375-3424 rec. 49' dark grey fx dse, lime sulf. odor
no show.

Ord. 3983-4033 rec. 50' grey fg. sand w/sho of salt wtr.
DST 3952-4033 op 2 hrs. rec. 1150' MCSW w/NS FP 60-595#
SIP 1445# 20 mins,

DST 4204-63 op 2 hrs. rec. 100' SO&HCCM, FP 70-80# SIP
95# 20 mins.

Took sidewall cores 3635-4906, SW Cores fgs w/SSG.

4616' fg sd stn, fluor, 4621' fg sd sli stn. 4623' fg sd goo
fluor, 4625' fg. sd SSG. 4627' fg sd stn, fluor
4629' fg sd sli fluor 4635' fg sd no sho. 4638' fg sd
no sho. 4649' fg w/SSG, 4661' fg sd w/SSG, 4667' fg sd
shaley NS, 4906' fg sd NS.

CONT'D ON PAGE 3

N.M. SEC: 35-193-29E
on Oil - #1-35 - Fed. Walter

K-2329-56
PAGE 3

4610-32 pkr failed str pkr.
T 4611-4647 op 1 hr 30 mins rec. 150' s oil & GCM 5 to
10% oil FP 50# SIP 1225# 20 mins.
of 68/4612-29 A/500 MCA, SF 10,000 4612-29 Swb part of
load swb dry.

PARKWAY DELAWARE UNIT
Parkway Delaware Unit No. 506 - Convert to Injection

NMOC Form C-108 (Attachment)

VII. Injection Data

1. Injection Rates
 - a. Proposed average daily water injection is 400 BWPD.
 - b. Maximum rate of daily water injection is 500 BWPD.
2. The injection station for gathering and processing the injection water will be a closed system.
3. Injection Pressures
 - a. Proposed average daily injection pressure is 1500 psi.
 - b. Maximum daily injection pressure is 2500 psi.
4. Chemical analysis of injection and formation water (see attached water analysis).
 - a. Proposed injection fluid will be produced Delaware water, TOG Federal water and water from the Exx Federal #1 WSW. The Petrolite Lab analysis dated May 14, 1997 indicates no compatibility problems with mixing these waters.
5. Water injection will be into a zone currently productive of oil and gas.



Water Analysis Report from Petrolite Corporation

Summary of Mixing Waters										
Sample Number	17936.00	17937.00								
Company	COASTAL	COASTAL								
Lease	OSAGE	PARKWAY								
Well	WELL #1	J.C. EXX-RO								
Sample Location	PUMP	W/H								
Anions (mg/L)										
Chloride	137,172	23,430								
Bicarbonate	134	195								
Carbonate	0.00	0.00								
Sulfate	750	175								
Phosphate	0.00	0.00								
Borate	0.00	0.00								
Silicate	0.00	0.00								
Cations (mg/L)										
Sodium	59,864	12,592								
Magnesium	3,462	548								
Calcium	20,000	1,500								
Strontium										
Barium										
Iron	5.00	1.30								
Potassium	0.00	0.00								
Aluminum	0.00	0.00								
Chromium	0.00	0.00								
Copper	0.00	0.00								
Lead	0.00	0.00								
Manganese	0.00	0.00								
Nickel	0.00	0.00								
Anion/Cation Ratio	1.00	1.00								
TDS (mg/L)	221,387	38,442								
Density (g/cm)	1.15	1.03								
Sampling Date	2/26/97	5/13/97								
Sampled by										
Submitted by										
Analysis Date	2/26/97	5/14/97								
pH at time of sampling	5.60	7.00								
pH at time of analysis										
pH used in Calculations	5.60	7.00								

PETROLITE

Water Analysis Report from Petrolite Corporation

Mixes at 80°F and 0 psi

Predictions of Saturation Index and Amount of Scale in lb/1000bbl

Mix Waters		CO ₂	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
17936	17937	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
14%	86%	0.31	0.25	6.67	-0.83		-0.87		N/A		N/A	

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: CO₂ Pressure is absolute pressure. Total Pressure is gauge pressure.

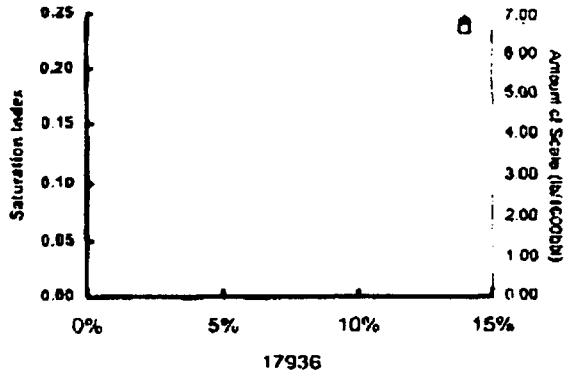
PETROLITE

Petrolite Corporation's Scale Predictions for Mixtures

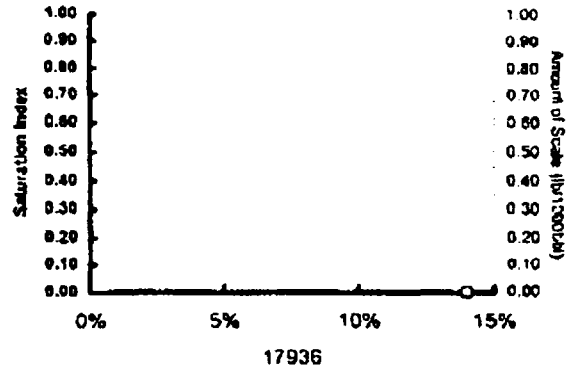
17936 with 17937 at 80°F and 0 psi

Note: Ranges of scale axes vary from graph to graph

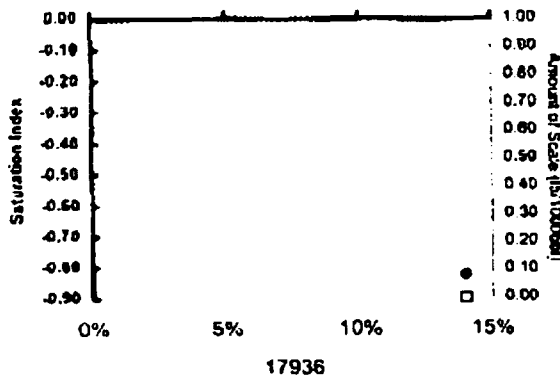
Calcite - CaCO_3



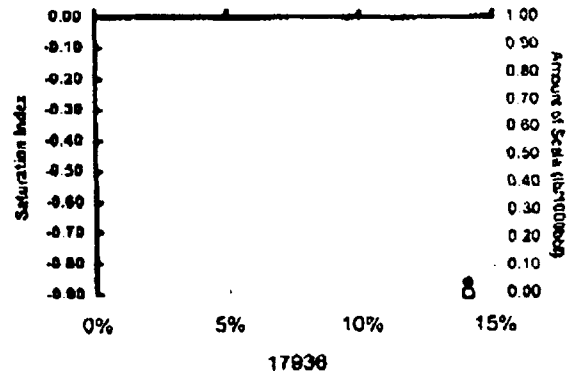
Barite - BaSO_4



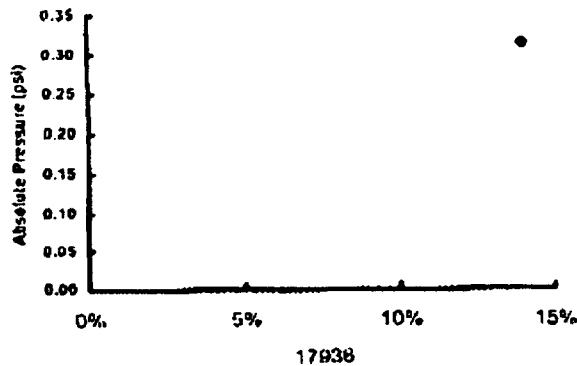
Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



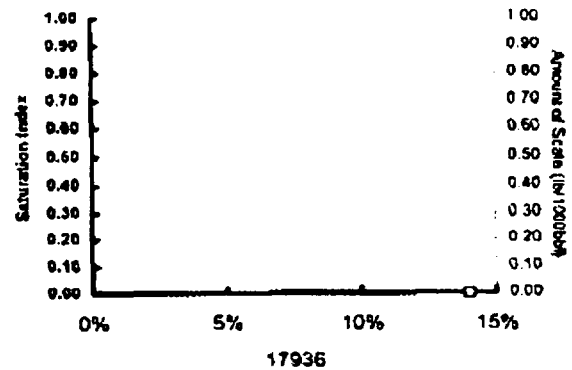
Anhydrite - CaSO_4



Carbon Dioxide Partial Pressure



Celestite - SrSO_4



PETROLITE

Water Analysis Report from Petrolite Corporation

Mixes at 100°F and 0 psi

Predictions of Saturation Index and Amount of Scale in lb/1000bbl

Mix Waters		CO2	Calcite CaCO3		Gypsum CaSO4.2H2O		Anhydrite CaSO4		Celestite SrSO4		Barite BaSO4	
17936	17937	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
14%	86%	0.40	0.34	9.52	-0.86		-0.83		N/A		N/A	

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: CO2 Pressure is absolute pressure. Total Pressure is gauge pressure.

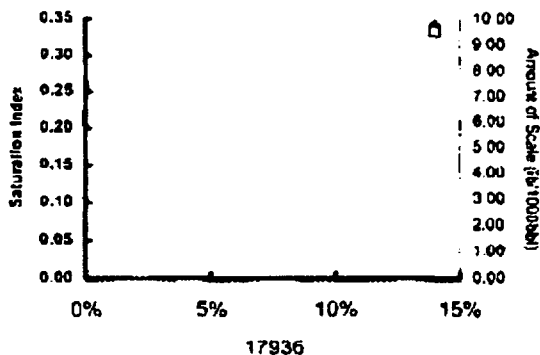
PETROLITE

Petrolite Corporation's Scale Predictions for Mixtures

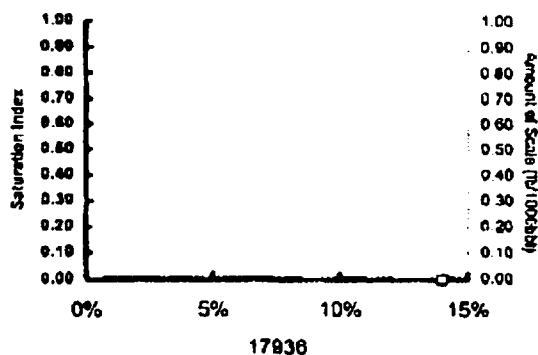
17936 with 17937 at 100°F and 0 psi

Note: Ranges of scale axes vary from graph to graph.

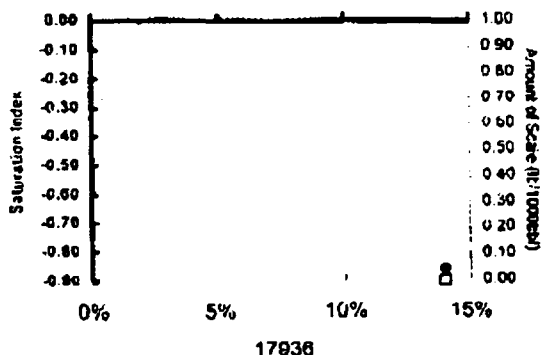
Calcite - CaCO_3



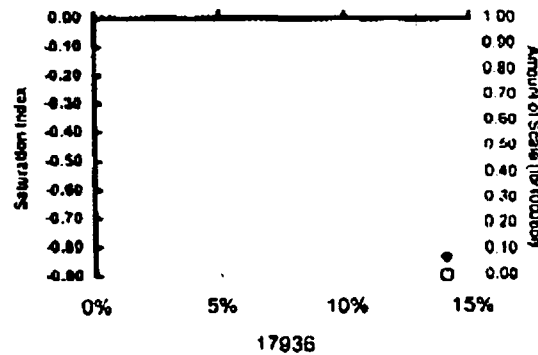
Barite - BaSO_4



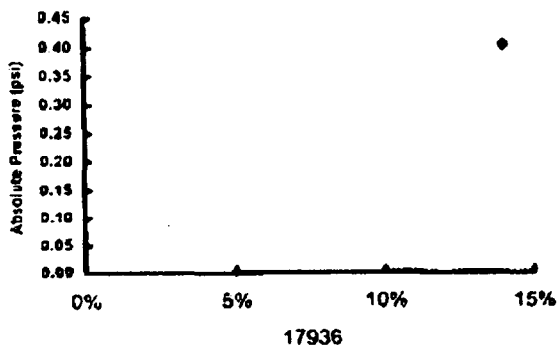
Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



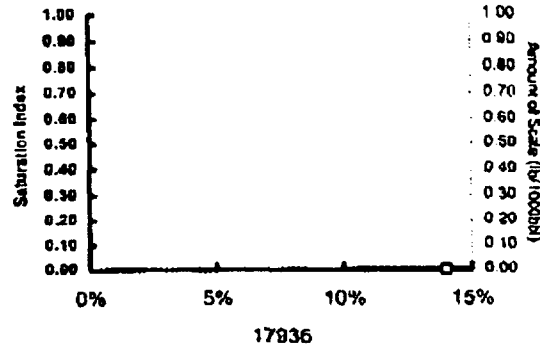
Anhydrite - CaSO_4



Carbon Dioxide Partial Pressure



Celestite - SrSO_4



PETROLITE

Water Analysis Report from Petrolite Corporation

Mixes at 120°F and 0 psi

Predictions of Saturation Index and Amount of Scale in lb/1000bbl

Mix Waters		CO2	Calcite CaCO3		Gypsum CaSO4.2H2O		Anhydrite CaSO4		Celestite SrSO4		Barite BaSO4	
17936	17937	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
14%	86%	0.50	0.44	12.5	-0.88		-0.78		N/A		N/A	

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

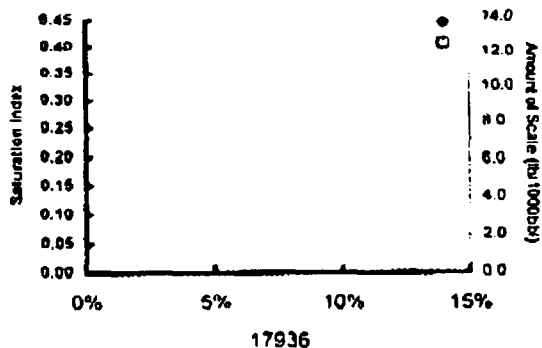
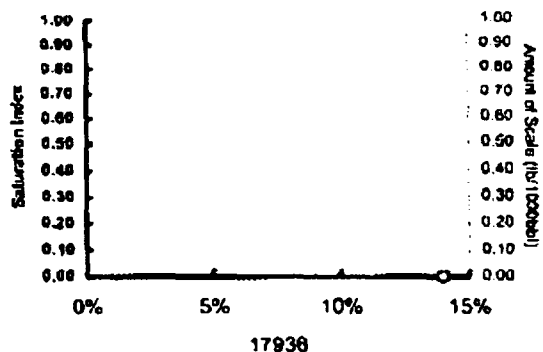
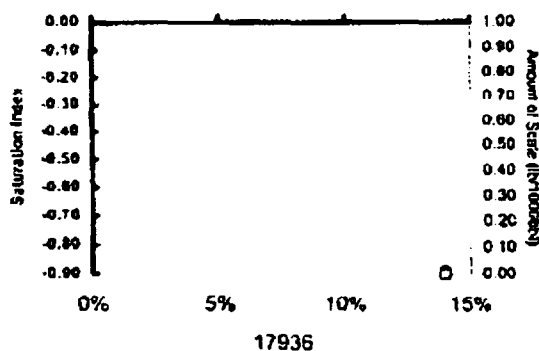
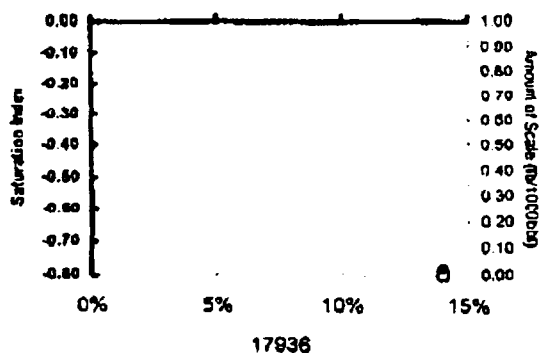
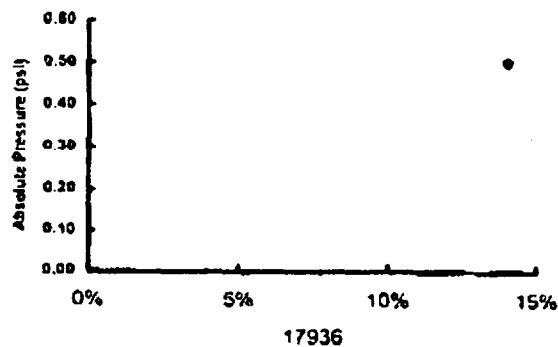
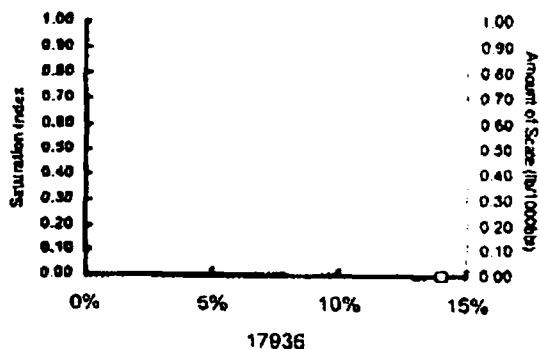
Note 3: CO2 Pressure is absolute pressure. Total Pressure is gauge pressure.

TRETOLITE

Petrolite Corporation's Scale Predictions for Mixtures

17936 with 17937 at 120°F and 0 psi

Note: Ranges of scale lines vary from graph to graph.

Calcite - CaCO_3 **Barite - BaSO_4** **Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$** **Anhydrite - CaSO_4** **Carbon Dioxide Partial Pressure****Celestite - SrSO_4** 

PETROLITE

Water Analysis Report from Petrolite Corporation

Mixes at 140°F and 0 psi

Predictions of Saturation Index and Amount of Scale in lb/1000bbl

Mix Waters		CO2	Calcite CaCO3	Gypsum CaSO4.2H2O	Anhydrite CaSO4	Celestite SrSO4	Barite BaSO4
17936	17937	psi	Index Amount	Index Amount	Index Amount	Index Amount	Index Amount
14%	86%	0.60	0.54 15.7	-0.90	-0.70	N/A	N/A

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

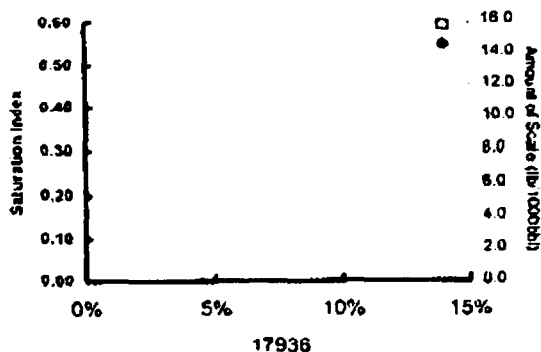
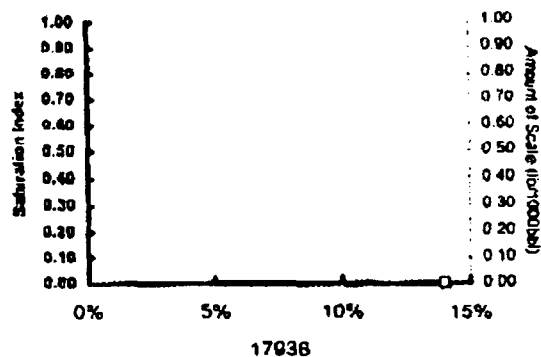
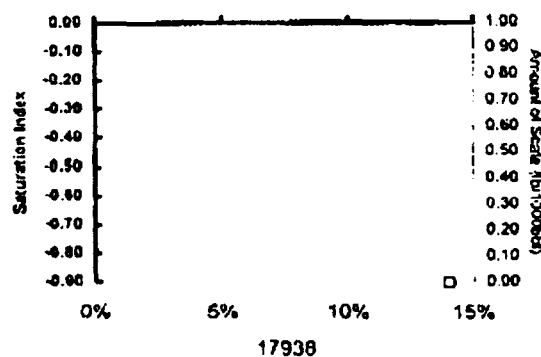
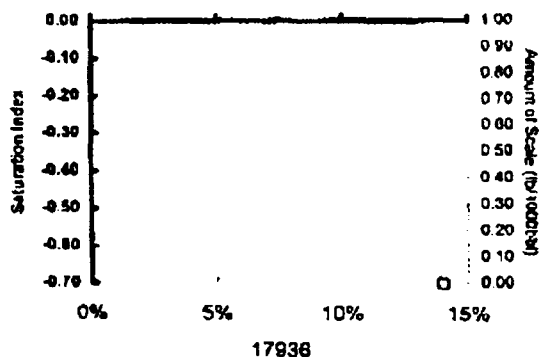
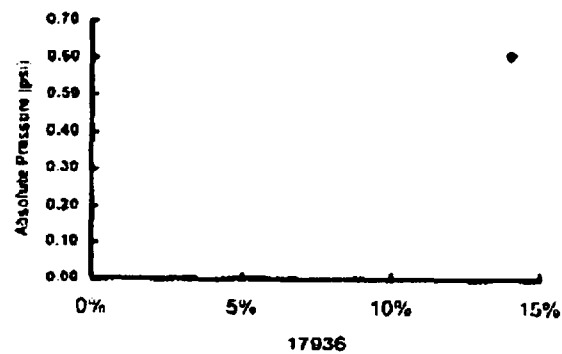
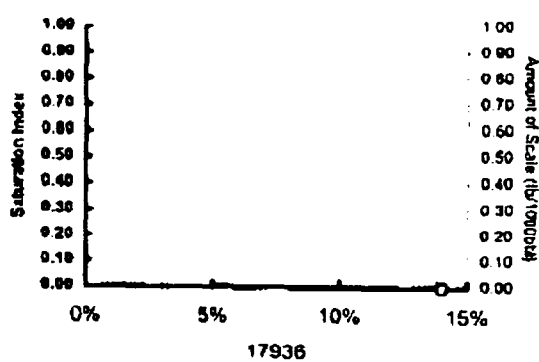
Note 3: CO2 Pressure is absolute pressure. Total Pressure is gauge pressure.

PETROLITE

Petrolite Corporation's Scale Predictions for Mixtures

17936 with 17937 at 140°F and 0 psi

Note: Ranges of scale axes vary from graph to graph

Calcite - CaCO_3 **Barite - BaSO_4** **Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$** **Anhydrite - CaSO_4** **Carbon Dioxide Partial Pressure****Celestite - SrSO_4** 

TRETOLITE

Petrolite Corporation
422 West Main Street
Artesia, NM 88210-2041

TRETOLITE DIVISION

(505) 746-3588
Fax (505) 746-3580

WATER ANALYSIS REPORT

Reply to:
P.O. Box 1140
Artesia, NM
88211-1140

Company : COASTAL MANAGEMENT Date : 05/14/97
Address : BURTON FLATS Date Sampled : 05/13/97
Lease : PARKWAY DELAWARE Analysis No. : 001
Well : J.C. WILLIAMS SOURCE Exx FEDERAL #4 WSW
Sample Pt. : WELLHEAD

ANALYSIS		mg/L	* meq/L
1. pH	7.0		
2. H2S	0 PPM		
3. Specific Gravity	1.025		
4. Total Dissolved Solids		38444.0	
5. Suspended Solids		NR	
6. Dissolved Oxygen		NR	
7. Dissolved CO2		NR	
8. Oil In Water		NR	
9. Phenolphthalein Alkalinity (CaCO3)			
10. Methyl Orange Alkalinity (CaCO3)			
11. Bicarbonate	HCO3	195.0	HCO3 3.2
12. Chloride	Cl	23430.0	Cl 660.9
13. Sulfate	SO4	175.0	SO4 3.6
14. Calcium	Ca	1500.0	Ca 74.9
15. Magnesium	Mg	548.0	Mg 45.1
16. Sodium (calculated)	Na	12594.8	Na 547.8
17. Iron	Fe	1.3	
18. Barium	Ba	NR	
19. Strontium	Sr	NR	
20. Total Hardness (CaCO3)		6002.0	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	= mg/L
75 *Ca <----- *HCO3 3	Ca(HCO3)2	81.0	3.2 259
----- /-----> -----	CaSO4	68.1	3.6 248
45 *Mg -----> *SO4 4	CaCl2	55.5	68.0 3774
----- <-----/ -----	Mg(HCO3)2	73.2	
548 *Na -----> *Cl 661	MgSO4	60.2	
+-----+	MgCl2	47.6	45.1 2146
Saturation Values Dist. Water 20 C	NaHCO3	84.0	
CaCO3 13 mg/L	Na2SO4	71.0	
CaSO4 * 2H2O 2090 mg/L	NaCl	58.4	547.8 32016
BaSO4 2.4 mg/L			

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted,
TATE LAIR

SCALE TENDENCY REPORT

Company : COASTAL MANAGEMENT Date : 05/14/97
Address : BURTON FLATS Date Sampled : 05/13/97
Lease : PARKWAY DELAWARE Analysis No. : 001
Well : J.C. WILLIAMS SOURCE Analyst : TATE LAIR
Sample Pt. : WELLHEAD EXX Fwd.#1 WSW

STABILITY INDEX CALCULATIONS
(Stiff-Davis Method)
CaCO3 Scaling Tendency

S.I. = 0.2 at 60 deg. F or 16 deg. C
S.I. = 0.2 at 80 deg. F or 27 deg. C
S.I. = 0.3 at 100 deg. F or 38 deg. C
S.I. = 0.4 at 120 deg. F or 49 deg. C
S.I. = 0.4 at 140 deg. F or 60 deg. C

CALCIUM SULFATE SCALING TENDENCY CALCULATIONS
(Skillman-McDonald-Stiff Method)
Calcium Sulfate

S = 3093 at 60 deg. F or 16 deg C
S = 3288 at 80 deg. F or 27 deg C
S = 3393 at 100 deg. F or 38 deg C
S = 3421 at 120 deg. F or 49 deg C
S = 3431 at 140 deg. F or 60 deg C

Petrolite Oilfield Chemicals Group

Respectfully submitted,
TATE LAIR

PETROLITE

CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS

Operator: ST. MARY'S C&E Well: PARKWAY DELAWARE #506
Contact: LEIA ESTERLY Title: REGULATORY COORD. Phone: 915-688-0156
DATE IN 1-7-98 RELEASE DATE 1-27-98 DATE OUT 3-2-98

Proposed Injection Application is for: ☒ **WATERFLOOD** ☒ Expansion ☐ Initial
Original Order: R- 9822 ☐ Secondary Recovery ☒ Pressure Maintenance
☐ **SENSITIVE AREAS** ☐ **SALT WATER DISPOSAL** ☐ Commercial Well

☐ WIPP ☐ Capitan Reef

Data is complete for proposed well(s)? YES Additional Data Req'd _____

AREA of REVIEW WELLS

18 Total # of AOR 0 # of Plugged Wells
YES Tabulation Complete ☒ Schematics of P & A's
YES Cement Tops Adequate ☒ AOR Repair Required

INJECTION FORMATION

Injection Formation(s) DELAWARE Compatible Analysis YES

Source of Water or Injectate AREA PRODUCTION + MAKE-UP

PROOF of NOTICE

☒ Copy of Legal Notice ☒ Information Printed Correctly
☒ Correct Operators ☐ Copies of Certified Mail Receipts
NO Objection Received ☐ Set to Hearing _____ Date

NOTES:

APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL? YES

COMMUNICATION WITH CONTACT PERSON:

1st Contact: ☒ Telephoned ☐ Letter 3-2-98 Date Nature of Discussion VERBAL APPROVAL
2nd Contact: ☐ Telephoned ☐ Letter _____ Date Nature of Discussion _____
3rd Contact: ☐ Telephoned ☐ Letter _____ Date Nature of Discussion _____