

Davidson, Florene, EMNRD

From: Meyer, David W <david.w.meyer@lmco.com>
Sent: Tuesday, July 24, 2012 3:26 PM
To: Davidson, Florene, EMNRD
Subject: Geroge Ross Ranch LLC Eddy County Salt Water Disposal Well 30-015-24466 AMOCO FEDERAL #001 [29015]
Attachments: Ross Ranch Quick Claim Deed.pdf; Ross Ranch LLP Filing.pdf

Florene,

Case 14888

First thank you for speaking with me today! The issue that we discussed during our telecom is the above subject well located on private property (see attached Eddy County Documentation) and should not be. The permitting process for a Salt Water Disposal Well which specifically requires that the Landowners be provided notification was not followed. This link <http://ocdimage.emnrd.state.nm.us/imaging/AEOrderFileView.aspx?appNo=pDEV0020900380> will provide the evidence that no communication with the land owner was made or attempted in the permitting process of this well.

As a result this well has been providing a revenue source to the operator since 1994 at the latest where the on-line State of New Mexico Oil Conservation Division records start. The permitting process was ongoing in October of 1989 as shown in the above referenced link. The George Ross Ranch has not received any monies for the almost 2,700,000 barrels flowed into this well as of the end of May 2012. The George Ross Ranch respectfully requests that the operating permit for which this well has been operating under for the last 18 years without permission of the rightful landowners be revoked immediately as it is adversely impacting the business operations of the George Ross Ranch. Please let me know if you require any further information.

Your acknowledgement of the receipt of this message by return email is requested.

Regards,

David Meyer

Operations Director
George Ross Ranch, LLC

Office 817-762-2403
Cell 817-271-1219
Fax 817-762-9276

QUITCLAIM DEED

Michelle Ross Meyer, dealing with her sole and separate property, for consideration paid, grants to **George Ross Ranch, LLC**, which has an address of 3710 Rawlins Street, Suite 850, Dallas, TX 75219 the following described real estate in Eddy County, New Mexico:

*SE1/4, S1/2SW1/4 of Section 22, Township 26 South, Range 29 East, N.M.P.M. and
W1/2SW1/4 of Section 23, Township 26 South, Range 29 East, N.M.P.M. and
W1/2NW1/4 of Section 26, Township 26 South, Range 29 East, N.M.P.M. and
N1/2NW1/4, SE1/4NW1/4, N1/2SE1/4, NE1/4 of Section 27, Township 26 South, Range 29 East,
N.M.P.M., including all Minerals*

WITNESS her hand and seal this 17 day of November 2011.

Michelle Ross Meyer
Michelle Ross Meyer

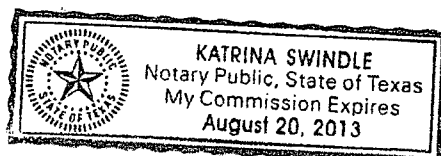
ACKNOWLEDGMENT FOR NATURAL PERSONS

STATE OF TEXAS)
COUNTY OF Dallas) ss.
)

The foregoing instrument was acknowledged before me this 17 day of November 2011 by **MICHELLE ROSS MEYER**,

Katrina Swindle
Notary Public

My Commission Expires:



RECEPTION NO: 1111829 STATE OF
NEW MEXICO, COUNTY OF EDDY
RECORDED 11/21/2011 4:02 PM
BOOK 0874 PAGE 0065
DARLENE ROSPRIM, COUNTY CLERK



MARTIN LAW FIRM
509 W PIERCE

QUITCLAIM DEED

Worth W. Ross, dealing with his sole and separate property, for consideration paid, grants to **George Ross Ranch, LLC**, which has an address of 3710 Rawlins Street, Suite 850, Dallas, TX 75219 the following described real estate in Eddy County, New Mexico:

*SE1/4, S1/2SW1/4 of Section 22, Township 26 South, Range 29 East, N.M.P.M. and
W1/2SW1/4 of Section 23, Township 26 South, Range 29 East, N.M.P.M. and
W1/2NW1/4 of Section 26, Township 26 South, Range 29 East, N.M.P.M. and
N1/2NW1/4, SE1/4NW1/4, N1/2SE1/4, NE1/4 of Section 27, Township 26 South, Range 29 East,
N.M.P.M., including all Minerals*

WITNESS his hand and seal this 7th day of November 2011.



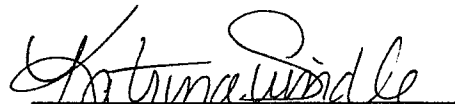
Worth W. Ross

ACKNOWLEDGMENT FOR NATURAL PERSONS

STATE OF TEXAS)

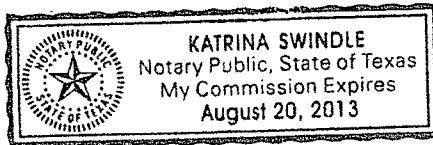
COUNTY OF Dallas) ss.

The foregoing instrument was acknowledged before me this 7th day of November 2011 by **WORTH W. ROSS**,



Notary Public

My Commission Expires:



RECEPTION NO: 1111828 STATE OF
NEW MEXICO, COUNTY OF EDDY
RECORDED 11/21/2011 4:01 PM
BOOK 0874 PAGE 0064 *C. Osorio*
DARLENE ROSPRIM, COUNTY CLERK



MARTIN LAW FIRM
509 W PIERCE

QUITCLAIM DEED

Ross A. Gilson, dealing with his sole and separate property, for consideration paid, grants to **George Ross Ranch, LLC**, which has an address of 3710 Rawlins Street, Suite 850, Dallas, TX 75219 the following described real estate in Eddy County, New Mexico:

*SE14, S1/2SW1/4 of Section 22, Township 26 South, Range 29 East, N.M.P.M. and
W1/2SW1/4 of Section 23, Township 26 South, Range 29 East, N.M.P.M. and
W1/2NW1/4 of Section 26, Township 26 South, Range 29 East, N.M.P.M. and
N1/2NW1/4, SE1/4NW1/4, N1/2SE1/4, NE1/4 of Section 27, Township 26 South, Range
29 East, N.M.P.M., including all Minerals*

WITNESS his hand and seal this 8 day of November 2011.



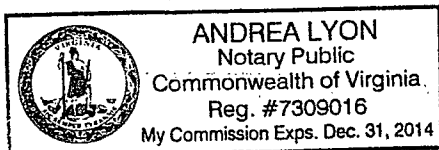
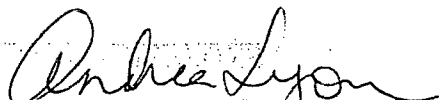
Ross A. Gilson

ACKNOWLEDGMENT FOR NATURAL PERSONS

STATE OF VIRGINIA)

City) ss.
COUNTY OF Alexandria)

The foregoing instrument was acknowledged before me this 8th day of November 2011 by **ROSS A. GILSON**,



 Notary Public

My Commission Expires: 12/31/2014

RECEPTION NO: 1111827 STATE OF
NEW MEXICO, COUNTY OF EDDY
RECORDED 11/21/2011 4:00 PM
BOOK 0874 PAGE 0063
DARLENE ROSPRIM, COUNTY CLERK



MARTIN LAW FIRM
509 W PIERCE
CARLSBAD NM 88220

QUITCLAIM DEED

Jeffrey F. Gilson, dealing with his soled and separate property, for consideration paid, grants to **George Ross Ranch, LLC**, which has an address of 3710 Rawlins Street, Suite 850, Dallas, TX 75219 the following described real estate in Eddy County, New Mexico:

*SE14, S1/2SW1/4 of Section 22, Township 26 South, Range 29 East, N.M.P.M. and
W1/2SW1/4 of Section 23, Township 26 South, Range 29 East, N.M.P.M. and
W1/2NW1/4 of Section 26, Township 26 South, Range 29 East, N.M.P.M. and
N1/2NW1/4, SE1/4NW1/4, N1/2SE1/4, NE1/4 of Section 27, Township 26 South, Range 29 East,
N.M.P.M., including all Minerals*

WITNESS his hand and seal this 11th day of November 2011.

Jeffrey F. Gilson

ACKNOWLEDGMENT FOR NATURAL PERSONS

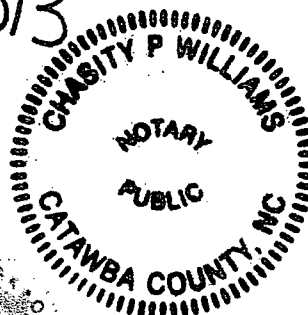
STATE OF NORTH CAROLINA)
) ss.
COUNTY OF Catawba)

The foregoing instrument was acknowledged before me this 11 day of November 2011 by **JEFFREY F. GILSON**,

Notary Public

My Commission Expires:

RECEPTION NO: 1111826 STATE OF
NEW MEXICO, COUNTY OF EDDY
RECORDED 11/21/2011 3:55 PM
BOOK 0874 PAGE 0062 *Alaya*
DARLENE ROSPRIM, COUNTY CLERK



Martin Law Firm
509 W Pierce
Carlsbad NM 88220

101 W. GREENE ST. • SUITE 319
CARLSBAD, NEW MEXICO 88220
(575) 885-3813

Protest Period Ends
APRIL 30, 2012

Owner Number
0001255

THIS VALUE WILL BE A FACTOR
IN DETERMINING YOUR
2012 PROPERTY TAX BILL

RETAIN THIS PORTION
FOR YOUR RECORDS.

THIS IS THE ONLY NOTICE OF VALUE YOU WILL RECEIVE UNLESS YOU ARE THE OWNER OF PERSONAL PROPERTY OR TAXABLE LIVESTOCK.
INSTRUCTIONS FOR PROTESTING AND FILING OF EXEMPTIONS ARE ON THE REVERSE SIDE.
FOR ASSISTANCE, CALL (575) 885-3813 BETWEEN THE HOURS OF 8:00 AM - 5:00 PM MONDAY - FRIDAY.

School District	NET TAXABLE VALUES WILL BE ALLOCATED TO THE GOVERNMENTAL UNITS IN SCHOOL DISTRICT.		Year 2012		PAGE: 0001		
CO							
PROPERTY DESCRIPTION	QUANTITY	VALUE DESCRIPTION	TYPE	FULL VALUE	VALUE RECAP	FULL VALUE	TAXABLE VALUE
4 172 154 294 422	250.12	GRAZING LAND C	N/R	450	LAND	1413	471
BOOK 874 PG 65 11/21/11	150	CSWCD	N/R				
SECTION-22 TOWNSHIP-26S RANGE-29E	83.33	GRAZING LAND C	N/R	150	STRUCTURES		
SE, S2SW	50	CSWCD	N/R				
MAP# 395-1.1	81.21	GRAZING LAND C	N/R	147	PERSONAL PROPERTY		
LOC S OF 900 WHITETHORN ROAD	49	CSWCD	N/R				
4 173 154 069 404	370.35	GRAZING LAND C	N/R	666	MANUFACTURED HOME		
900 S LONGHORN ROAD	222	CSWCD	N/R				
BOOK 874 PG 65 11/21/11							
SECTION-23 TOWNSHIP-26S RANGE-29E					LIVESTOCK		
W2SW							
MAP# 395-32.1					TOTAL VALUE	1413	471
LOC S OF 900 LONGHORN ROAD					VETERAN EXEMPTION		
4 173 155 068 131					FAMILY EXEMPTION		
900 S LONGHORN ROAD					OTHER EXEMPTION		
BOOK 874 PG 65 11/21/11					NET TAXABLE VALUE		471
SECTION-26 TOWNSHIP-26S RANGE-29E							
W2NW							
MAP# 395-35.1							
LOC S OF 900 LONGHORN ROAD							
4 172 154 375 237							
900 S LONGHORN ROAD							
BOOK 874 PG 65 11/21/11							
SECTION-27 TOWNSHIP-26S RANGE-29E							
NE, N2NW, SENW, N2SE							
MAP# 395-36							
LOC S OF 900 LONGHORN ROAD							
<p>"FULL VALUE" MEANS THE VALUE DETERMINED FOR PROPERTY TAXATION PURPOSES.</p> <p>"TAXABLE VALUE" IS 33 1/3% OF "FULL VALUE."</p> <p>"NET TAXABLE VALUE" IS "TAXABLE VALUE" LESS EXEMPTIONS AND IS THE VALUE UPON WHICH TAX IS IMPOSED.</p> <p>THIS DOCUMENT CONSTITUTES A PROPERTY OWNER'S NOTICE OF VALUATION AS REQUIRED UNDER SECTION 7-38-20 OF THE NEW MEXICO PROPERTY TAX CODE.</p>							

101 W. GREENE ST. SUITE 319
CARLSBAD, NEW MEXICO 88220
(575) 885-3813

PRESORTED
FIRST CLASS MAIL
U.S. POSTAGE PAID
ALBUQUERQUE, N.M.
PERMIT NO. 531

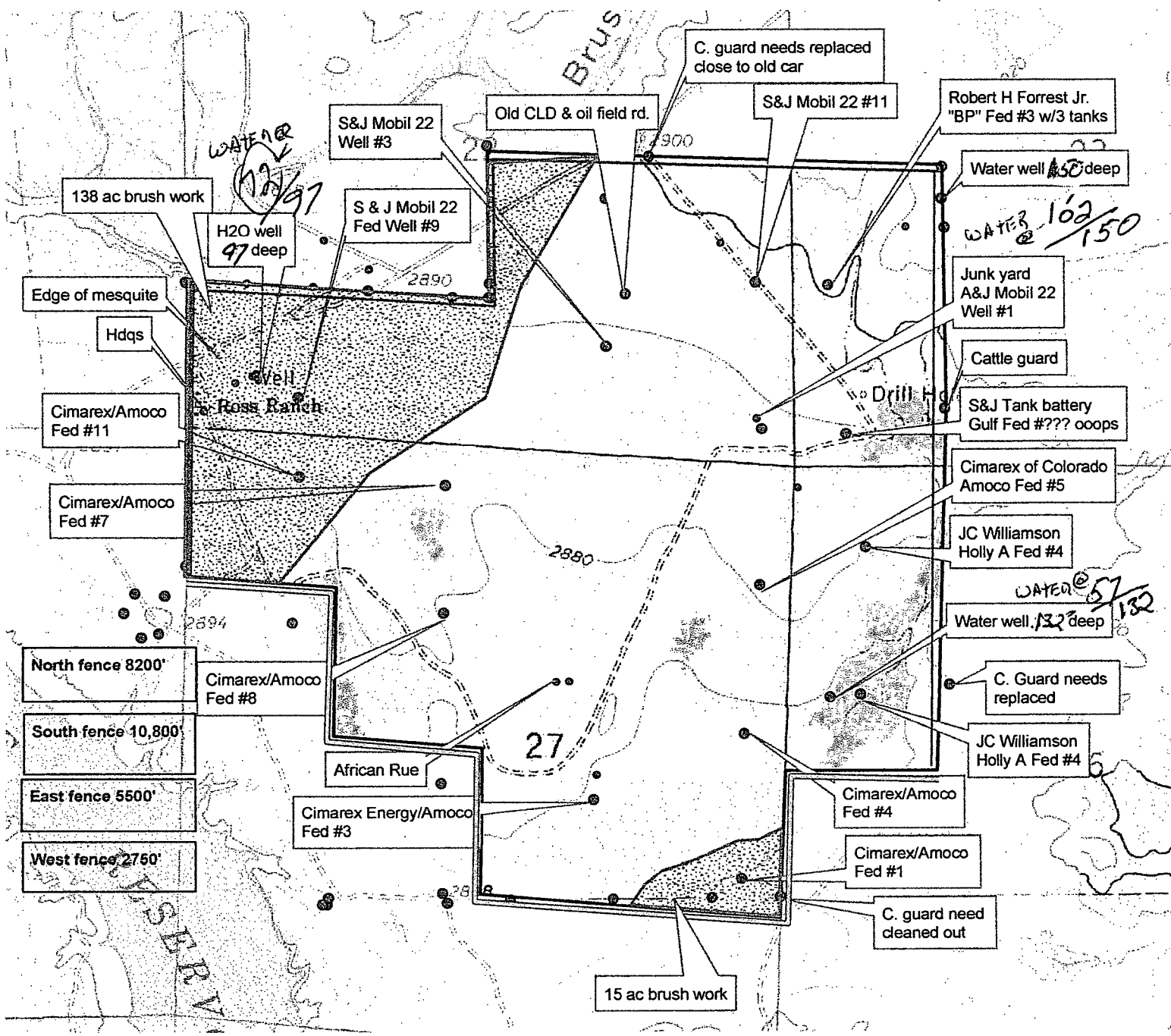
PROPERTY NOTICE OF VALUATION ENCLOSED

RECEIVED

APR 02 2002



T48 P1 00 RN: 568 ON: 0001255 SN: 001932
ROSS, GEORGE RANCH LLC
3710 RAWLINS ST STE 850
DALLAS TX 75219-6401





Office of the Secretary of State

CERTIFICATE OF FILING OF

GEORGE ROSS RANCH, LLC
File Number: 801387029

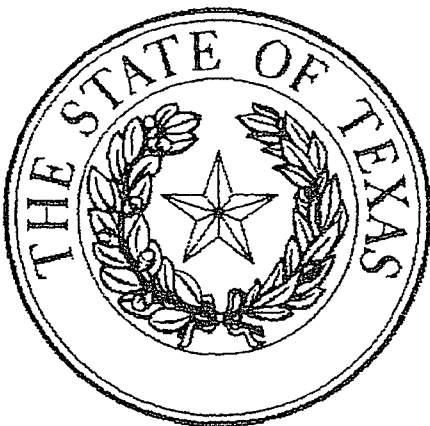
The undersigned, as Secretary of State of Texas, hereby certifies that a Certificate of Formation for the above named Domestic Limited Liability Company (LLC) has been received in this office and has been found to conform to the applicable provisions of law.

ACCORDINGLY, the undersigned, as Secretary of State, and by virtue of the authority vested in the secretary by law, hereby issues this certificate evidencing filing effective on the date shown below.

The issuance of this certificate does not authorize the use of a name in this state in violation of the rights of another under the federal Trademark Act of 1946, the Texas trademark law, the Assumed Business or Professional Name Act, or the common law.

Dated: 02/22/2011

Effective: 02/22/2011



A handwritten signature in cursive script, reading "Hope Andrade".

Hope Andrade
Secretary of State

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

ORDER NO. SWD-380

APPLICATION OF MALLON OIL COMPANY

ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION

Under the provisions of Rule 701(B), Mallon Oil Company made application to the New Mexico Oil Conservation Division on October 5, 1989, for permission to complete for salt water its Amoco Federal Well No. 1, located in Unit I of Section 27, Township 26 South, Range 29 East, NMPM, Eddy County, New Mexico.

THE DIVISION DIRECTOR FINDS THAT:

(1) The application has been duly filed under the provisions of Rule 701(B) of the Division Rules and Regulations.

(2) Satisfactory information has been provided that all offset operators and surface owners have been duly notified; and

(3) The applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 will be met.

(4) No objections have been received within the waiting period prescribed by said rule.

IT IS THEREFORE ORDERED THAT:

(1) The applicant herein, Mallon Oil Company is hereby authorized to complete its Amoco Federal Well No. 1 located in Unit I of Section 27, Township 26 South, Range 29 East, NMPM, Eddy County, New Mexico, in such a manner as to permit the injection of salt water for disposal purposes into the Delaware formation at approximately 4022 feet to approximately 4208 feet through 2 3/8 inch-plastic lined tubing set in a packer located at approximately 3950 feet.

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

Order SWD-380
Mallon Oil Company
October 27, 1989
Page 2

Prior to commencing injection operations, the subject well shall be cemented above, across and below the proposed injection interval in a manner satisfactory to the supervisor of the Artesia District office of the Division.

Prior to commencing injection operations into the well, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing or packer.

The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well to no more than 804 psi.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the Delaware formation. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Artesia district office of the Division of the date and time of the installation of disposal equipment, of the mechanical integrity test and of the remedial cement operations, so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Artesia district office of the Division of the failure of the tubing, casing or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

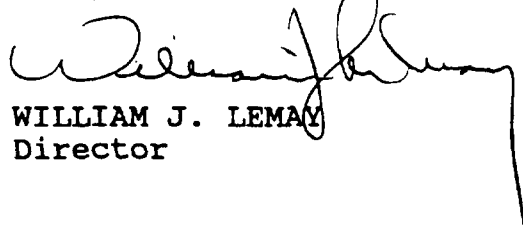
PROVIDED FURTHER THAT, jurisdiction of this cause is hereby retained by the Division for such further order or orders as may be deemed necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of the operator to conduct operations in a manner which will ensure the protection of fresh water or in a manner inconsistent with the requirements set forth in this order, the Division may, after notice and hearing, terminate the injection authority granted herein.

Order SWD-380
Mallon Oil Company
October 27, 1989
Page 3

The operator shall submit monthly reports of the disposal operations in accordance with Rule 706 and 1120 of the Division Rules and Regulations.

Approved at Santa Fe, New Mexico, on this 27th day of October, 1989.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY
Director

S E A L

MALLON OIL COMPANY

1099 18th Street, Suite 2750, Denver, Colorado 80202
(303) 293-2333

September 21, 1989

RECEIVED

Mr. David Catnach
New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

SEP 22 1989

OIL CONSERVATION DIV.
SANTA FE

Dear David:

As outlined in Mallon Oil Company's July 24, 1989 Application for Authorization to Inject, Mallon wishes to dispose of a portion of the produced water from it's Amoco-Federal lease into the Amoco Federal #1 well, NE SE Sec. 27, T 26S, R 29E, Eddy County, New Mexico.

The sands proposed for injection are in the uppermost portion of the Cherry Canyon formation at 3856-86' and 3904'-40'. As you pointed out to me the above perforation interval includes the reported cement top around the 4 1/2" production string in Meridian Oil Company's Pecos Federal #3 well located in the SW 1/4 of section 27, T 26S, R 29E. The Pecos - Federal #3 is about 1800 feet southwest of the proposed disposal site. The temperature log cement top of 3850' in that well puts the cement two feet above the top of the lower of the two sands which I understand is locally called the CC-5 sand.

Above the cement top in the Pecos Federal #3 are no zones which are producing within one mile of the well. None of the sands above the proposed disposal interval appear from logs to have the high porosity and clean gamma ray measured in that zone and thus do not appear to have the capacity to accept water that has been proven in the Upper Cherry Canyon sands. An 8 5/8" intermediate casing string is set at 2845' in the Pecos-Federal #3 with cement reportedly circulated to the surface. The setting depth correlates with the base of the anhydrite and the top at the Delaware Mountain Group. The only fresh water in the area is produced from around 250' from the Dewey Lake formation. The casing borehole annulus is presumably filled with drilling mud which should further inhibit crossflow.

As an example of the high permeability and injectivity demonstrated by the sands proposed for injection, a number of wells in the area are presently completed in those sands for disposal purposes. In particular the three wells utilized by CRW-SWD, Ralph Williamson's commercial disposal operation, are injecting at a rate of about 210,000 BWPM, primarily into the Upper Cherry Canyon sands.

September 21, 1989
New Mexico Oil Con. Div.
Page Three

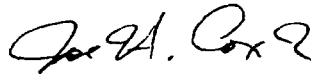
A reduction in the cost of saltwater disposal will substantially lower the economic producing limit of the wells and, from the economic evaluations I have run, allows an additional 3500-5000 BO per well to be commercially producible. Excluding the proposed disposal well this would result in the production of 42,000-60,000 BO which would otherwise be left in the ground under our lease at the present well count. In addition to the presently producing wells, we have defined by step-out drilling an area on the west side of the development which should allow an additional 10-14 wells to be added to the reservoir. Since the development wells which we have drilled to define this area have lower projected reserves than earlier, easterly wells on the lease the economics to justify drilling become very tight and under the present lease operating expense, which includes off-lease commercial disposal of produced water, it is doubtful that all of the sites would be drilled. With many of our working interest partners hesitant to commit to further drilling it is even questionable as to whether any further development will take place. At approximately 45,000 BO per development well this amounts to as high as 630,000 additional barrels of oil which may not be produced from the reservoir under the present conditions.

As you can see the economics of saltwater disposal directly impact the efficiency of oil recovery from the reservoir. With a December 31, 1989 Farmout drilling deadline facing us the timing of initiating the disposal is also a factor.

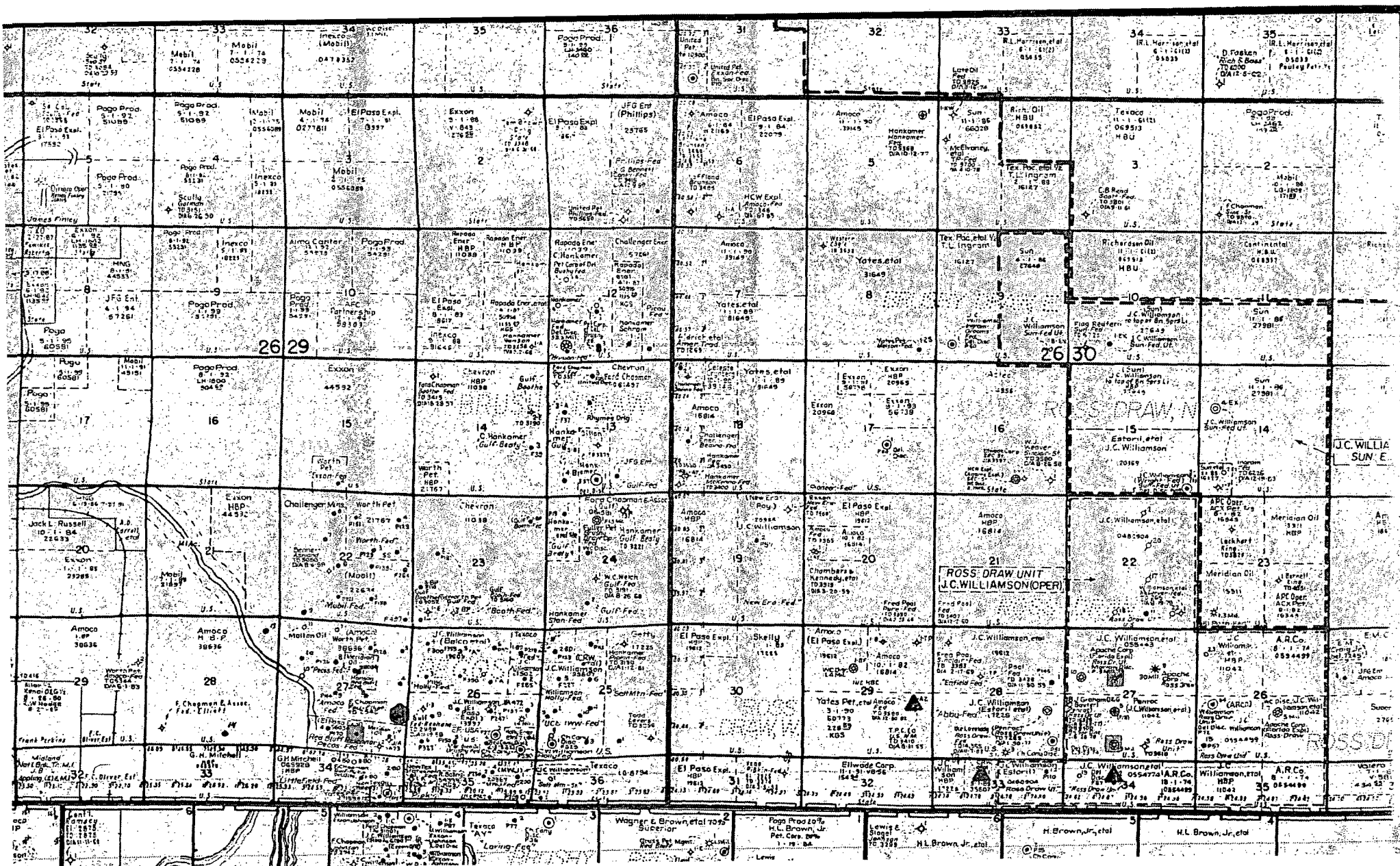
If you have any questions regarding the information presented here, please feel free to call. We are anxious to move ahead with some plan so would appreciate your timely consideration of this matter.

Sincerely,

MALLON OIL COMPANY



Joe H. Cox Jr.
Production Manager



MALLON OIL COMPANY

1099 18th Street, Suite 2750, Denver, Colorado 80202
(303) 293-2333

RECEIVED

OCT - 5 1989

OIL CONSERVATION DIV.
SANTA FE

October 3, 1989

TO: All Parties Required to be Notified

FROM: Joe H. Cox, Jr., Production Manager
Mallon Oil Company

RE: Revised Application for Authorization to
Inject (NMOCD form C-108) for Proposed
Conversion to Saltwater Disposal,
Amoco-Federal #1, NESE, Sec. 27 T26S, R29E
Eddy County, New Mexico

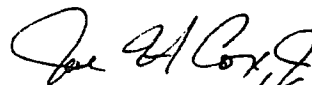
Attached is another revision of the previously submitted Application for Authorization to Inject for our Amoco-Federal #1 Well. Upon review of State Oil Conservation Division records it was found in Meridian Oil Company's, Pecos-Federal #3 Well (SW SE Sec. 27) that at the depths corresponding to the proposed disposal interval the cement would be inadequate to assure containment of any migrating fluids. The enclosed application shows a revised interval in the Cherry Canyon formation which is now being proposed for disposal.

As before, remedial cement work will be required in the Amoco-Federal #1 well prior to beginning disposal. A copy of the remedial procedure is attached.

If you have any questions regarding the revised conversion, please feel free to call.

Sincerely,

MALLON OIL COMPANY



Joe H. Cox., Jr.
Production Manager

Enclosure
JHC/da

RECOMPLETION PROCEDURE- AMOCO-FEDERAL #1
PROPOSED CHERRY CANYON SALTWATER DISPOSAL INTERVAL

- 1.) Set 4 1/2" cast iron bridge plug at 4800' above presently producing Williamson Sand perforations. Load hole with water and pressure test casing to 1500 psi for 15 minutes.
- 2.) Perforate "squeeze" holes 4300-02' 4 SPF.
- 3.) TIH with 4 1/2" double grip packer on 2 3/8" tubing to 4350', set packer and pressure test tbq. and packer. Release packer and pick up to 4250', set packer and reverse circulate through Braden head at maximum allowable rate until returns are relatively clean.
- 4.) TOH with packer and TIH w/4 1/2" cement retainer. Set retainer at 4280' and establish injection into squeeze perforations. Pump approximately 300 ft³ 35/65 poz "A" followed by approximately 180 ft³ class A + 2% bentonite + 0.5% dispersant. Displace to retainer, sting out of retainer and reverse circulate tubing clean.
- 5.) Perforate proposed injection interval 4022-34', 4036-40' 4050-60', 4092-4102', 4106-24', 4134-54', 4165-4208' with 2 SPF. TIH with packer and tubing and spot 150 gallons acid across perforations. Set packer and break down perforations with 2350 gallons 15% HCl with 150 perf balls.
- 6.) TIH w/internally coated packer on 2 3/8" internally plastic coated tubing, circulate annulus with corrosion inhibiting fluid set packer at 3950' and commence injection.

MALLON OIL COMPANY

1099 18th Street, Suite 2750, Denver, Colorado 80202
(303) 293-2333

August 2, 1989

Mr. David Catnach
New Mexico Oil Conservation Division
310 Old Santa Fe Trail
P.O. Box 1148
Santa Fe, NM 87504-1148

RE: Revised Application for Authorization
to Inject, Amoco-Federal #1
NE/4 SE/4 Sec. 27, T26S, R29E
Eddy County, New Mexico

Dear David:

In preparing to send out the revised Application for Authorization to Inject I noticed that the George Mitchell #2 BO Littlefield Federal (the "problem well" that we discussed at the NMOCD) had run 7" intermediate string prior to drilling the production string borehole. A trip to the log library confirmed that the hole had been drilled with a 6 1/8" bit (see attached completion report). Since all other holes in the notification area had been drilled with 7 7/8" bits I had used the factors for that diameter hole and the appropriate casing size on all calculated cement tops and had overlooked the difference in the Mitchell well.

Using a 6 1/8" borehole and neat class "A" cement the 100% fill-up cement level calculates to 1645' KB or 1226' within the 7' intermediate string. Assuming a 75% fill-up factor the top would still be 368' within the 7" string at 2512'.

I just wanted you to be aware of where this change had come from. I apologize for not having caught it earlier and perhaps saving us all some time and trouble.

Mr. David Catnach
Revised Application
August 2, 1989
Page 2 of 2

We are now submitting the revised Application for Authorization to Inject for the Cherry Canyon zone for administrative approval. The proof of newspaper advertisements and certified receipts will follow under separate cover.

Sincerely,

MALLON OIL COMPANY

A handwritten signature in cursive script, appearing to read "Joe H. Cox, Jr.", is written over the typed name.

Joe H. Cox, Jr.
Production Manager

JHC:sss

Enclosure

Case 14888

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage.
Application qualifies for administrative approval? ☐ yes ☐ no
- II. Operator: Mallon Oil Company
Address: 1099 18th Street, Suite 2750, Denver, CO 80202
Contact party: Joe H. Cox, Jr. Phone: (303) 293-2333
- 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 ☒ 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:
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 source 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 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: Joe H. Cox, Jr. Title Engineer
Signature: *Joe H. Cox, Jr.* Date: 10-03-89
- * 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. Submitted with completion report about 7/11/83

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 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.

III A.

1. Amoco-Federal #1 ; 1665' FSL, 330' FEL, Sec. 27, T26S, R29E, Eddy County, New Mexico.
2. Surface Casing: 8 5/8", set in 12 1/4" hole at 450' with 280 sx, calculated cement top at surface.

Production Casing: 4 1/2", 11.6#/ft., set at 5820' with 450 sx in 7 7/8" hole. Bond Log cement top 4970' later squeezed with 2-100 sk squeeze jobs through perfs 4950-58 (1 SPF), 4969-5059' (1 shot/10'). Final calculated cement top 4360'.
3. Proposed injection tubing:

2 3/8", 4.7#/ft., J-55; internally plastic coated (TK-75 or equivalent) or PVC lined.
4. Proposed injection packer:

Baker or Elder Model "R" Double Grip Pkr. Internally coated with nickle or comparable material to tubing coating. Proposed setting depth 3950'.

III B.

1. Proposed injection formation:

Cherry Canyon (Unnamed Sands)

Field and Pool Name:

Brushy Draw, Delaware.
2. Injection Interval:

4022-34', 4036-40', 4050-60', 4092-4102', 4106-24', 4134-54', 4165-4208' (KB) perforated (2 SPF).
3. Well was originally drilled 4-13-83 as a producing well.
4. Other perforations:

"Williamson Sd." Member, Cherry Canyon Formation original perforations 4950-58' (1SPF), 4969-5039' (1 shot/10') squeezed with two 100 sk squeeze jobs. Re-perfed 4984-90', 5000-04' (2 SPF). "Getty Sd." Member, Brushy Canyon Formation tested through perforations 5352-60'. Well presently has a cast iron bridge plug set at 5300' topped with 20' cement. Present production is from Williamson interval 4984-90, 5000-04'. A permanent bridge plug will be set at 4800'. Squeeze perforations will be shot at 4300' and cement will be circulated through a cement retainer from squeeze perforations to approximately 2700'. In the event that circulation with the Braden head cannot be established upper "circulation" holes will be shot at 2000' and cement circulated across interval, circulation holes will then be squeezed.

5. Next oil and gas producing zone uphole from proposed injection zone within field:

"Olds Sd." Mbr. Bell Canyon
Formation 2959-3031' (KB).

Next oil and gas producing zone downhole from proposed injection zone within field:

"Abbey Sd." Mbr. Cherry Canyon Formation
(approx) 4315-62' (KB).

VI. Wells Penetrating Proposed Disposal Zone Within One Half Mile of Proposed Site:

1. Well Name and Number: #1-Y Pecos Federal
Operator: Meridian Oil (El Paso Exploration)
Location: 860' FSL, 2180' FWL (SE SE) , Sec. 27, T26S, R29E, Eddy County, New Mexico.

✓ Type well: Oil
Spud Date: 5-2-84
Completion Date: 7-11-84
Total Depth: 6,000'
PBD: 5909'
Casing Data: Surface - 9 5/8", set at 2854' with 1025 sacks;
Production - 4 1/2", set at 5970 with 760 sacks; calculated
cement top = 3,287'.

Completion Data: Perforated 4945-5006', fraced 24,000 gallons
water + N₂, 34,000# Sd.

2. Well Name and Number: #2 Pecos Federal
Operator: Meridian Oil (El Paso Exploration)
Location: 1980' FNL, 2030' FEL, (SW NE) Sec. 27, T26N, R29E, Eddy County, New Mexico.

✓ Type well: Oil
Spud Date: 10-22-85
Completion Date: 11-13-85
Total Depth: 5509'
PBD: 5470'
Casing Data: Surface-13 3/8" set at 366' with 350 sx cement.
Intermediate - 8 5/8" set at 2860' with 1500 sacks.
Production - 4 1/2" set at 5509' with 3500 sx; calculated
cement top = 2,692'.
Completion Data: Perforate 4901-90'. Acidized with 4000
gallons 15% HCl, fraced with unreported vol. gelled water +
78,500# Sd.

3. Well Name and Number : #3 Pecos Federal
Operator: Meridian Oil (El Paso Exploration)
Location: 760' FSL, 1980' FEL (SW SE), Sec. 27, T26S, R29E, Eddy County, New Mexico.

VI (Cont.):

3. Type Well: Oil
Spud Date: 11-5-85
Completion Date: 12-11-85
Total Depth: 5505'
PBTID: 5457'
Casing Data: Surface - 13 3/8", set at 396' with 420 sx.
Intermediate - 8 5/8" set at 2845' with 775 sx.
Production - 4 1/2" set at 5500' with 375 sx; temperature log
cement top = 3850' KB.
Completion Data: Perforated 4883-4979' with 46 shots, acidized
with 3800 gallons 15% NEFE acid, (No frac record).
4. Well Name and Number: #2 BO, Littlefield Federal
Operator: George H. Mitchell
Location: 724' FNL, 660' FEL, Sec. 34, T26S, R29E, Eddy
County, New Mexico.
Type Well: Oil
Spud Date: 5-29-84
Completion Date: 8-6-84
Total Depth: 5,900'
Casing Data: Surface - 9 5/8" set at 350' with 485 sx.
Intermediate - 7" set at 2880' with 200 sx.
Production - 4 1/2" set at 5900' with 356 sx; calculated cement
top = 2512'.
Completion Data: Perforate 4950', 4953', 4957', 4961', 4964',
4967', 4973, 4976', 4979', 4983', 4989', 4992', 4995', 4998',
acidized with 1500 gallons 7 1/2% MSR acid, frac with 24,000
gallons foamed, gelled water + 34,000# Sd.
5. Well Name and Number: #1 Stateline Federal
Operator: Ralph Williamson (originally New Tex Oil)
Location: 740' FNL, 330' FWL, Sec. 35, T26S, R29E, Eddy
County, New Mexico.
Type Well: Oil
Spud Date: 6-4-83
Completion Date: 8-7-83
Total Depth: 6750'
PBTID: 6708'
Casing Data: Surface - 13 3/8" set at 455' with 450 sx.
Intermediate - 8 5/8" set at 2901' with 650 sx.
Production - 5 1/2" set at 6750' with 1800 sx; calculated
cement top at surface.
Completion Data: Perforated 6442-6565' (22 holes) squeezed off
with 150 sx. Perforated 5863-5892' (15 holes), acidized with
1500 gallons HCl, fraced with 12,000 gallons gelled water +
17,000# Sd; Perforated 5758'- 70' with 1 SPF, acidized with
1250 gallons, fraced with 12,000 gallons, 17,000 # Sd.;
Perforated 5308-30' (1 SPF); acidized with 2,000 gallons frac
with 15,000 gallons + 23,000# Sd.; Perforated 5103-07',
5129-35' (2SPF). Acidized with 1500 gallons frac with 12,000
gallons + 19,000# Sd.; Perf 4935-5005', acidized with 3000
gallons, fraced with 20,000 gallons + 25,000# Sd.

6. Well Name and Number: #5 EP-USA
Operator: J.C. Williamson
Location: 660' FSL, 1980' FWL, (SE SW), Sec. 26, T26S, R29E,
Eddy County, New Mexico
Type Well: Oil
Spud Date: 1-31-85
Completion Date: 2-26-85
Total Depth: 6,250'
PBD: 6,208
Casing Data: Surface - 13 3/8" set at 452' with 500 sx.
Intermediate - 8 5/8" set at 2770' with 150 sx.
Production - 4 1/2" set at 6250' with 1150 sx; calculated
cement top = 2195'.
Completion Data: Perforated 4985-5057' (28 holes), acidized
with 3000 gallons 7 1/2% NEFE, frac with 55,700 gallons gelled
water + 100,000# Sd.
7. Well Name and Number: #6 EP-USA
Operator: J.C. Williamson
Location: 660' FSL, 660' FWL, (SW SW), Sec. 26, T26S, R29E,
Eddy County, New Mexico.
Type Well: Oil
Spud Date: 3-19-85
Completion Date: 4-23-85
Total Depth: 6200'
PBD: 6160'
Casing Data: Surface - 12 3/4" set at 425' with 450 sx.
Intermediate - 8 5/8" set at 2810' with 150 sx.
Production - 4 1/2" set at 6200' with 1150 sx.
Calculated cement top = 2145'.
Completion Data: Perforated 4958-5042'. Acidized with 3000
gallons 7 1/2% NEFE; fraced with 58,256 gallons + 99,000# Sd.
8. Well Name and Number: #9 EP-USA
Operator: J.C. Williamson
Location: 1650' FSL, 990' FWL, (NW SW), Sec. 26, T26S, R29E,
Eddy County, New Mexico.
Type Well: Oil
Spud Date: 3-14-85
Completion Date: 4-16-85
Total Depth: 6,220'
PBD: 6178'
Casing Date: Surface - 13 3/8" set at 425' with 450 sx.
Intermediate - 8 5/8" set at 2764' with 150 sx.
Production - 5 1/2" set at 6220' with 1300 sx.
Calculated Cement Top: 178'.
Completion Data: Perforated 4961-5024 (25 shots), acidized
with 3000 gallons 7 1/2% HCl; fraced with 56,000 gallons +
82,450#.

9. Well Name and Number : #8 EP-USA
Operator: J.C. Williamson
Location: 1980' FSL, 1980' FWL, Sec. 26, T26S, R29E, Eddy County, New Mexico.
Type Well: Oil
Spud Date: 2-28-85
Completion Date: 3-27-85
Total Depth: 6250'
PBTD: 6208'
Casing Data: Surface - 13 3/8" set at 425' with 450 sx.
Intermediate - 8 5/8" set at 2775' with 150 sx.
Production - 5 1/2" set at 6250' with 1000 sx.
Calculated Cement Top = 1602'
Completion Data: Perforated 4983-5065', acidized with 3000 gallons, fraced with 57,496 gallons + 100,000# Sd.
10. Well Name and Number: #3 Holly "A" Federal
Operator: J.C. Williamson
Location: 1980' FNL, 660' FWL, (SW NW), Sec. 26, T26S, R29E, Eddy County, New Mexico
Type Well: Oil
Spud Date: 12-17-84
Completion Date: 1-17-85
Total Depth: 5452'
PBTD: 5412'
Casing Data: Surface 13 3/8" set at 472' with 500 sx.
Intermediate - 8 5/8" set at 5432' with 900 sx.
Calculated Cement Top = 2259'
Completion Data: Perforated 4935-5026'; acidized with 3000 gallons 7 1/2% NEFE: fraced with 55,000 gallons gelled water and 89,000# Sd.
11. Well Name and Number: Amoco-Federal #3
Operator: Mallon Oil Company
Location: 2310' FSL, 1681' FEL (NW SE), Sec. 27, T26S, R29E, Eddy County, New Mexico
Type Well: Oil
Spud Date: 8-16-83
Completion Date: 10-14-83
Total Depth: 5075'
PBTD: 5035'
Casing Data: Surface - 8 5/8", set at 445' with 280 sx;
Production - 5 1/2", set at 5070' with 400 sx;
Cement Top (CBL) - 3219'
Completion Data: Perforated 4909-4974' (1 SPF). Acidized with 1500 gallons, fraced with 30,000 gallons + 64,000# sd.
12. Well Name and Number: Amoco-Federal #4
Operator: Mallon Oil Company
Location: 2310' FNL, 330' FEL, (SE NE), Sec. 27, T26S, R29E, Eddy County, New Mexico
Type Well: Oil
Spud Date: 11-28-83
Completion Date: 2-27-84
Total Depth: 5052'

VI:

12. PBTD: 5037'

Casing Data: Surface - 8 5/8", set at 517' with 1275 sx.

Production - 5 1/2" set at 5046' with 450 sx.

Cement Top (CBL) - 3180'.

Completion Data: Perforated 4962-5017' (18 shots); Acidized with 2500 gallons HCl; Fraced with 30,000 gallons + 50,000# sd.

Part VII:

1. Proposed Average Daily Injection Rate: 800 BWPD.

Proposed Maximum Daily Injection Rate: 1600 BWPD.

2. Closed system.

3. Proposed Average Surface Injection Pressure: 300 psi.

Proposed Maximum Surface Injection Pressure: 804 psi.

4. All injected fluid will be water produced from the "Williamson Sd", Cherry Canyon Fm. (analysis attached). No water from the proposed injection zone is available for analysis.

5. The apparent water resistivity back calculated from the open hole logs indicates a sodium chloride equivalent concentration of 28,000 PPM (mg/L). There are no wells producing from proposed disposal zone within one mile.

VIII Proposed Injection Zone:

Unnamed Sands, Cherry Canyon Fm., Delaware Mountain Group.

Fine to medium grained sandstone bounded by areally continuous shales above and below.

Net sand thickness (porosity greater than 20%) 74'
(4024-4206', Gross).

Drinking Water Zone:

"Dewey Lake" 150-200'+ (KB), no other known fresh water zones in area.

IX. Proposed Stimulation:

Zone well will be perforated and broken down with acid. If injection tests prior to beginning disposal indicate a need for further stimulation, a frac job consisting of approximately 20,000 gallons gelled water and 40,000# of sand will be conducted.

X.

Logs previously submitted.

XI.

See attachments for water analyses from the two known fresh water wells in the area.

Well #1 SW SW Sec. 22, T26S, R29E, "Challenger Fresh", sampled 5-27-88.

Well #2 NW SW Sec. 26, T26S, R29E, "Williamson Fresh", sampled 5-27-88.

XII.

Statement regarding hydrologic connection between fresh water aquifer and proposed disposal zone:

Detailed mapping of the Williamson Sd (Cherry Canyon Formation) which lies approximately 700' below the proposed disposal zone shows no indication of faulting or other potential conduits for fluid flow between the proposed disposal zone and the aquifer in the Dewey Lake Formation. Further, no indications have been observed during drilling of the wells to make such geologic phenomena seem likely.

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

MIDLAND DIVISION

HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

RECEIVED JUN 03 1988

No. _____

Mallon Oil

Date 5-25-88

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by _____ Date Rec. _____

Well No. _____ Depth _____ Formation _____

County _____ Field _____ Source _____

	Williamson Fresh	Amoco Production	Challenger Fresh
Specific Gravity	.854 @ 70°	.059 @ 70°	1.75 @ 70°
Relative Density	1.005	1.205	1.000
Viscosity	7.2	6.7	7.1
Calcium (Ca)	1350	32,500	450 *MPL
Magnesium (Mg)	90	5100	Nil
Chlorides (Cl)	4000	189,000	1600
Sulfates (SO ₄)	1800	100	1700
Bicarbonates (HCO ₃)	180	24	193
Soluble Iron (Fe)	Nil	25	nil

Remarks: _____ *Milligrams per liter

Respectfully submitted,

Analyst: _____

HALLIBURTON COMPANY

By _____

CHEMIST

NOTICE

MALLON OIL COMPANY

Well Mechanics & Work History

ASE-WELL <u>Amoco - Federal #1</u>	FIELD NAME <u>Brushy Draw - Delaware</u>	DATE <u>7-23-89</u>	LOCATION <u>1665' FSL, 330' FEL (NE SE)</u>
COUNTY <u>Eddy</u>	STATE <u>New Mexico</u>	ELEV. DATUM - G.L. <u>2877' KB-2869' GL</u>	Sec. <u>27</u> Twp <u>26S</u> R <u>29E</u>

COMMENTS

Schematic diagram for
application to inject saltwater.
Well configuration as shown
is proposed, not actual at the
time of application.

SURFACE CSG.
Size / Wt.: 8 5/8" / 24 #/ft (in 12 3/4" hole)
Grade / Thread: J-55 / 8R
Depth: 450'
Cement: 280 sx

INTERMEDIATE STRING None
Size: _____
Grade / Thread: _____
Depth: _____
Cement: _____

TUBING Internally Plastic Coated
Size / Wt.: 2 3/4" / 4.7 #/ft
Grade / Thread: J-55 / EUE
Depth: _____

PACKER _____
Type: Baker Model 'R' or Equivalent
Depth: 3950'

BRIDGE PLUG _____
Type: Cement Retainer
Depth: 4280'

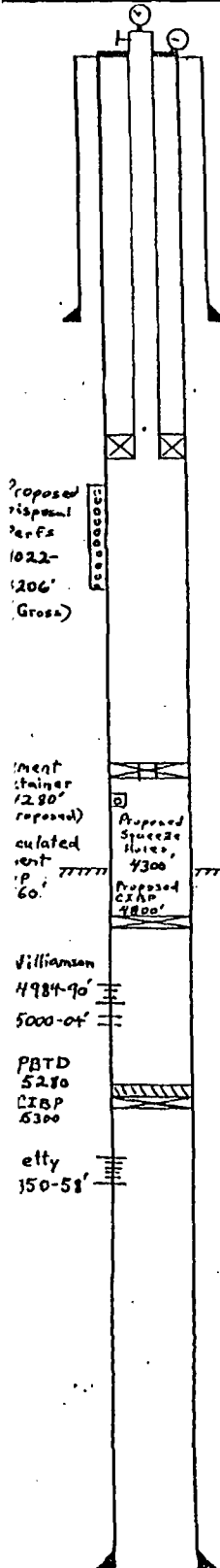
PERFORATIONS / OH _____
Intervals: As shown

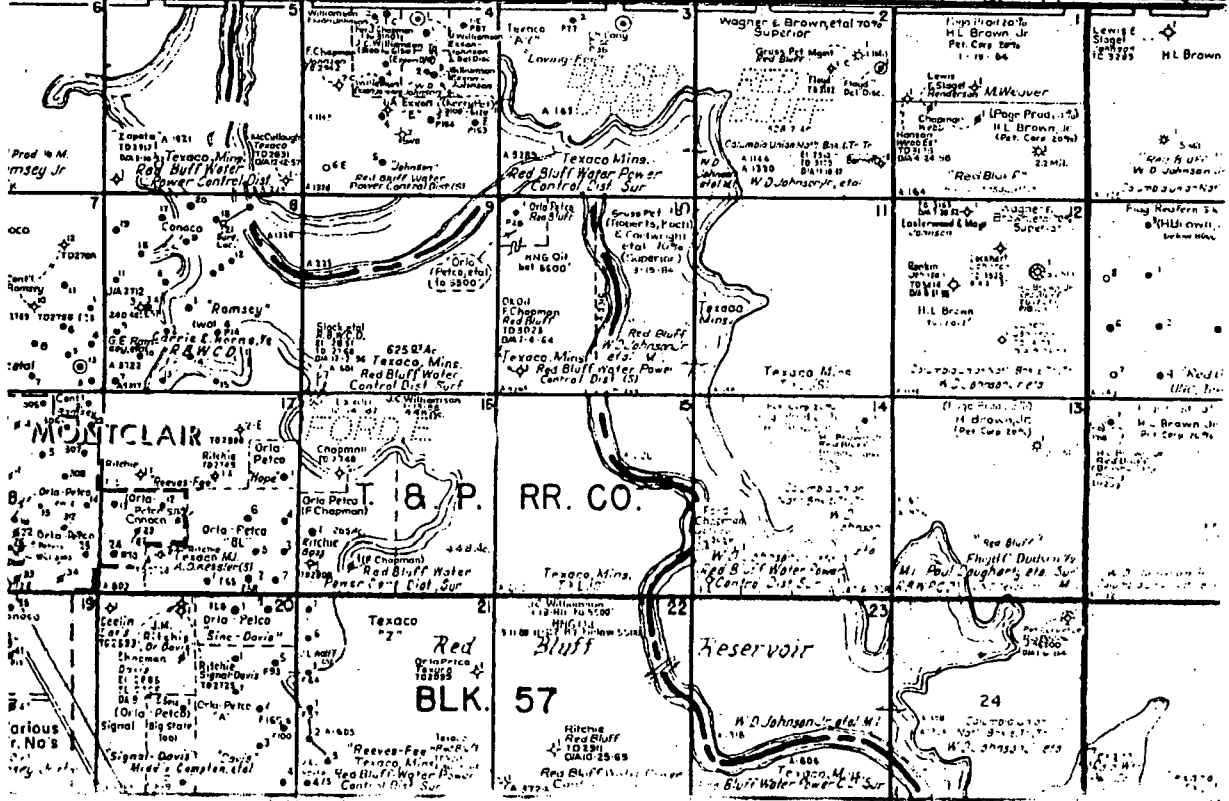
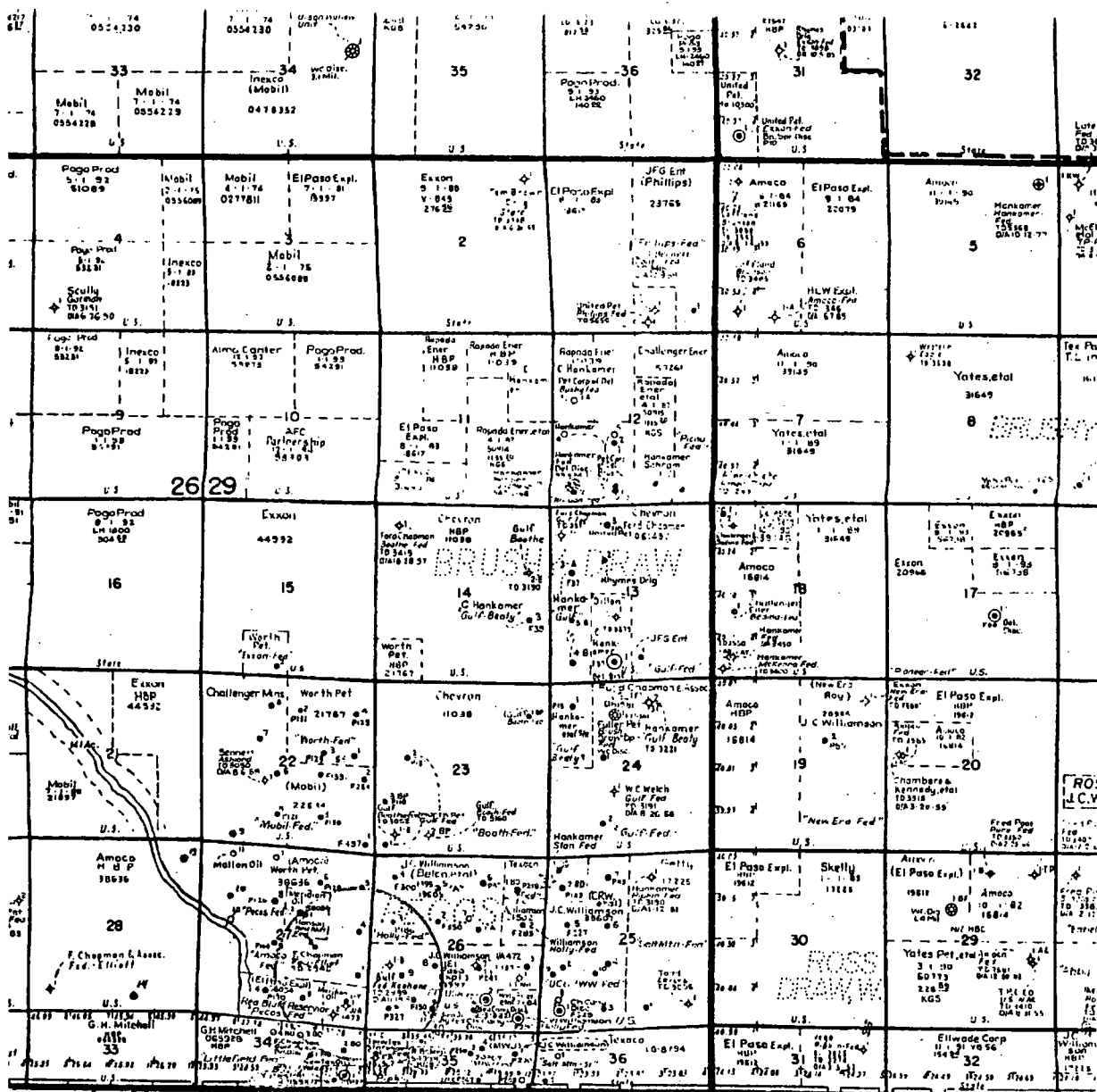
SPF: _____

PRODUCTION CASING _____

Size / Wt.: 4 1/2" / 11.6 #/ft (in 7 3/4" hole)
Grade / Thread: J-55 / 11.6 #/ft
Depth: 5820'
Cement: 450 sx primary, 200 sx squeezed
PBD _____

T.D. 6150'





Federal
#1
CNL-FDC

04000

04100

04200

CASE 14888: Application of George Ross Ranch, LLC to revoke Administrative Order No. SWD-180, Eddy County, New Mexico. George Ross Ranch, LLC seeks to revoke Administrative Order No. SWD-380 which authorized Mallon Oil Company to complete its Amoco Federal Well No. 1 located in Unit Letter I of Section 27, Township 26 South, Range 29 East, in such a manner as to permit the injection of salt water for disposal purposes into the Delaware formation. This well is located north of the Pecos River Red Bluff Reservoir.