engli e e en 8,52

August 23, 1995

Oil Conservation Commission 2040 S. Pacheco Santa Fe, New Mexico 87505

Attention: Mr. David Catanach

RE: Coy Lowe (SWD) Well No. 1 SWD-322

Dear Mr. Catanach:

The letter is a follow up to our conversation of August 22, 1995 on the above mentioned well. The well was worked over during the months of November 1994 thru February 1995. A total of 70 days was spent fishing, squeezing and testing the well at a cost of \$300,000. The well was restored to injection on February 10, 1995 and after six (6) months injection, we now have communication on the casing. We shut the well in and moved in a workover rig. After testing, it was determined the casing had a hole at approximately 7300'.

We are currently considering four options for the well and would appreciate your help with these or any other options you may suggest.

- Squeeze off hole at 7300'. Drill out and test. Set the completion packer at 6500'±, above the deteriorated interval of casing at 7000'. The Devonian zone takes water on a vacuum and as tight as the zones are in between the packer and the injection interval, there would be no doubt that the water is going to the Devonian zone. We could also run a tracer survey and do a MIT yearly.
- 2. Squeeze off hole at 7300'. Drill out and test. Run 4-1/2" flush joint casing to 9000'±. Due to tensile strength of the flush joint connection and the close tolerance of drift area between the two casings, it would be difficult to ensure that the pipe would even reach 9000'. This would still leave more than 3000' of casing exposed to the injection zone.

Page Two

Oil Conservation Commission August 23, 1995

- 3. Squeeze off hole at 7300'. Drill out and test. Run 3" tubing to 11,500' and cement from 11,500' to 7,000'. This would satisfy coverage of the bad casing but would be the final step in the wellbore if the tubing developed a leak. We would also run a tracer survey yearly to make sure the water was going to the proper place.
- 4. Abandon the Devonian injection interval. Plug back to 7000'. Permit and attempt to inject into the Gloreta-San Andress. This may be a last resort. Jerry Sexton mentioned that these zones were very tight and may require excessive pressure to pump in. He also mentioned we may have a problem proving separation from other wells in the area.

Of the above options, we would appreciate your consideration of option No. 1 and No. 3. We realize there are normal procedures that must be followed with injection wells. However, we are attempting to produce a well making 50 BOPD and 600 BWPD economically. If you need any additional information, please feel free to contact me at the Houston office, 713 - 460-2355 extension 221. Thank you for you help in this matter.

Sincerely,

Sheldon Lowery Production Superintendent

Encls.

SL:cjb

APPLICATION	FOR	AUTHORIZATION	70	INJECT

Ι.	Purpose: Applica	Secondary Recovery Pressure Naintenance X Disposal Storage tion qualifies for administrative approval? X yes no
п.	Operator:	American Trading and Production Corporation

Aodress:	<u> </u>	Louisiana,	<u>Suite 300;</u>	Midland,	Texas /	9701	_
				•			
Contact pa	rty: <u>Be</u>	n Taylor			Phone:	915/684-4463	

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

- IV. Is this an expansion of an existing project? [] yes [X] no If yes, give the Division order number authorizing the project _
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
 - 1. Proposed average and maximum daily rate and volume of fluids to be injected;
 - 2. Whether the system is open or closed;
 - 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.

Ben Taylor Name: Title Sr. Engineer Bh Signature: Date: 6-4-87

 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.

FORM C-108 Side 2

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 hule 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 parker 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 of 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 n∈ed 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 rame.
 - (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 (f 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 zore 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.

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SALT WATER DISPOSAL APPLICATION

- I. See Form C-108
- II. See Form C-108
- III.
 - A. 1) Coy Lowe No. 1 Sect. 7, T-13-S, R-38-E 500' FW X 1650' FNL
 - 2) Casing Description:

Size	Depth	Cement	Hole	TOC	Determined
13 3/8"	382'	400sx "C"	17 1/2"	Surf	CIRC
8 5/8"	4,450'	2080sx Lite	12 1/4"	Surf	CIRC
5 1/2"	12,412"	1000sx 50/50poz	7 7/8"	8620'	CBL

3) Tubing Description:

Size: 2 7/8" 6.5ppf Lining: Tuboscope TK-69 Setting Depth: 12,100'

- 4) Packer: Guiberson UNI VI IPC Setting Depth: 12,100'
- B. 1) Injection Formation Devonian Field: Stallion (Devonian)
 - 2) Injection Interval:

12,235 - 43' perforated w/2 JSPF 12,278 - 88' perforated w/2 JSPF

- 3) Original Drilling Intention: Development Oil Well
- 4) Sealed Perforation Intervals:

9,700 - 06; squeezed w/75 sxs 11,392 - 406; squeezed w/50 sxs Original PBTD; 12,326'

5) Depth to Nearest Oil or Gas: None

IV. See Form C-108

V. See Attached Map

- Other Wells within Area of Review: VI. Operator: American Trading and Production Corporation Α. Lowe Federal No. 1 Well: Oil Discovery - Stallion (Devonian) Field Type: Mechanical: 13 3/8" SA 415' w/425 sx 8 5/8" SA 4,550' w/2000 sx 5 1/2" SA 12,500' w/1200 sx Date Drilled: 3/86 Sec. 7, T-13-S, R-38-E Location: 330' FW X 330' FNL 12,500' Depth: Record of Completion: Perforated 12,190 - 12,210' w/1 JSPF Operator: MGF 0il Corporation Β. We11: E.B. Anderason No. 3 Oil Well Type: Mechanical: 13 3/8" SA 414' w/420 sx 8 5/8" SA 4,550' w/1400 sx 5 1/2" SA 12,168' w/1900 sx Date Drilled: 1/87 Location: Sec. 6, T-13-S, R-38-E 330' FW X 330' FSL 12,210' Depth: Record of Completion: Open hole 12,168 - 12,210' С. Operator: MGF Oil Corporation Well: E.B. Anderson No. 2 Type: D&A Mechanical: 12 3/4" SA 372' w/400 sx 8 5/8" SA 4,505' w/400 sx 5 1/2" SA 12,226' w/950 sx Date Drilled: 4/68 Location: Sec. 6, T-13-S, R-38-E 990' FS X 990' FWL Depth: 12,234' Record of Completion: Open hole 12,226 - 12,234' Operator: Mid-Continent/Sunray D. Well: O.E. Fulton No. 1 Type: P&A Mechanical: 13 3/8" SA 337'w/350 sx 9 5/8" SA 4,559' w/3272 sx 5 1/2" SA 10,048' w/250 sx Date Drilled: 3/56 Sec. 6, T-13-S, R-38-E Location: 660' FS X 1977' FWL 12,320' Depth: Record of Completion: (Schematic Attached)
 - -2-

VII. Volumes of Fluids to be Injected:

- Daily Avg. 500 BWPD Daily Max. - Unknown
- 2) System is open.
- 3) Pressures

Average: Unknown Maximum: Unknown

- 4) Injected water will be from same formation.
- 5) Disposal zone is productive of oil and gas.

VIII.

Α.	Injection Zone	Β.	Fresh Water Zone
	Lithology: Dolomite		Name: Fresh Water Sands
	Name: Devonian		Depth: 380' (No known source
	Thickness: Unknown		of fresh water underlying the
	Depth: Top @ 12,202'		Devonian)

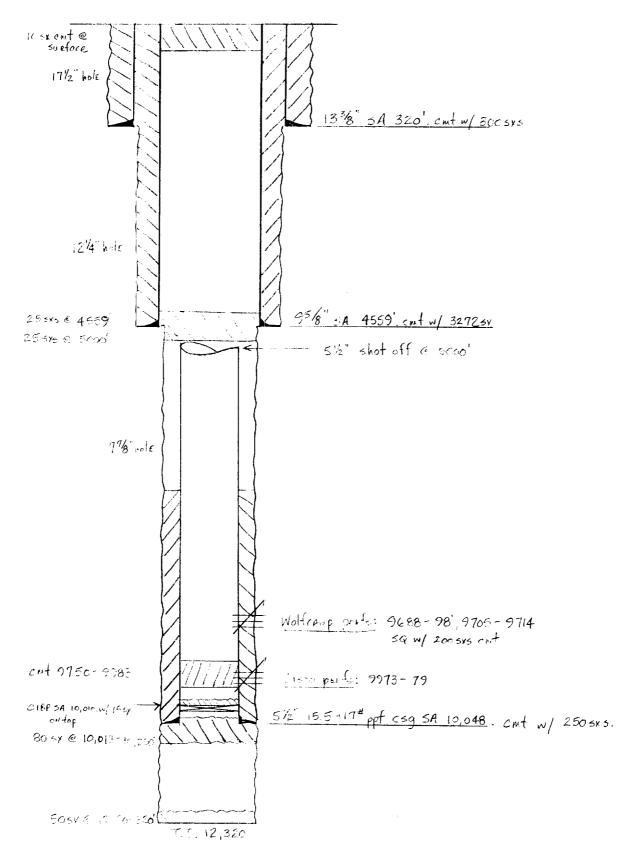
IX. Stimulation:

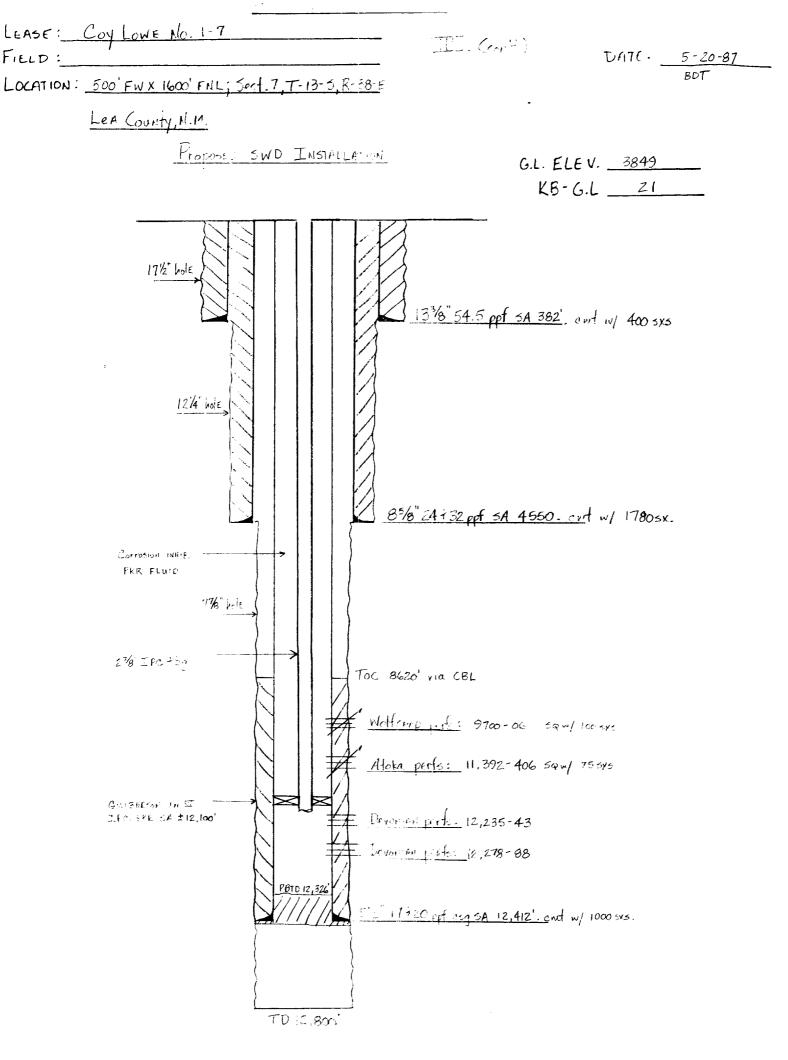
Devonian Zones were previously acidized w/1700 gal 15% HCL acid. Further stimulation of 5000 gal is probable to insure efficient injection.

- X. Logs furnished w/Form C-108; October 3, 1986
- XI. (See Attached Analysis)
- XII. Faulting does exist, but they are sealing faults and do not extend above the base of the Pennsylvanian which is well below any fresh water source. Therefore, there is no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of potable water.

LEASE: O.E. Fulton No.1	II. D (coril)	
FIELD :	\square , D (or 1)	UATE . 5-20-87
LOCATION: 660'FSX 1977' FWL; Sect. 6. T-18 5:1-75-5		BOT
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A second se





AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

I,_____

Robert L. Summers

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period

of_____

One weeks. Beginning with the issue dated

June 5 , 19<u>87</u> and ending with the issue dated

June 5, 19.87 abuit X. Summune

Publisher.

Sworn and subscribed to before

___day of me this_

Notary Public.

My Commission expires_

M. 14 19 8 (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.

JUNE 5, 1987 NOTICE OF APPLICATION FOR AUTHORIZATION Company Name: American Trading & Production Corporation Address: 110 W. Louisiana, Suite 300 Midland, Texas 79701 Phone Number: (915) 684-4463 Person to Contact: Ben Taylor Purpose of salt water disposal well: To dispose of produced water from an offsetting lease whose production occurs from Whose in terms one. Well Name: Coy Lowe #1. Location of well: 500' FW & 1650' FNL; Sec. 7, T-13-S, R-38-E, Lea County, New Mex-Formation Name: Devonian Depth: 12,250' Depth: 12,250' Maximum Injection Rate: 1000 BWPD Maximum Injec-tion Pressure: Vacuum Interested parties must file objection or requests for hear-ing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days. days.

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HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

MIDLAND DIVISION HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

No. 123

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ToAmerican Tradi	ng	Date	6-5-87
		it nor any part thereof no or disclosed without first of laboratory managemen course of regular business	y of Halliburton Company and neither or a copy thereof is to be published securing the express written approval t; it may however, be used in the operations by any person or concern ceiving such report from Halliburton
Submitted by		Date Rec	
Well No First Sample	Depth	Formation_	
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, Specific Gravity			
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	Respectful	ly submitted,	
Analyst:		HALLIBURTON	I COMPANY
cc:		Вуснем	41ST
		DTICE D. ANY USER OF THIS REPORT AGREES "	

NOT BE LI GE, V νN, 915/684-4463

WEST TEXAS/NEW MEXICO DISTRICT

June 4, 1987

Mr. Coy Lowe Suite 1230 1500 Broadway Lubbock, Texas 79401

> Re: Stallion (Devonian) Field Coy Lowe Lease Well No. 1 Lea County, New Mexico Sec. 7, T-13-S, R-38-E

Gentlemen:

American Trading and Production Corporation is submitting to the Oil Conservation Commission, State of New Mexico, an application to convert the above referenced well to salt water disposal.

As required under the rules of the Commission, the surface owner of the subject lease and each offset operator is being furnished a copy of this application. Your copy is enclosed.

Should you have any questions, please do not hesitate to call.

Yours very truly,

Ben Taylor Senior Engineer

BDT/plp

Enclosure

915/684-4463

WEST TEXAS/NEW MEXICO DISTRICT

June 4, 1987

MGF Oil Corporation Box 360 700 Vaughn Building Midland, Texas 79702

> Re: Stallion (Devonian) Field Coy Lowe Lease Well No. 1 Lea County, New Mexico Sec. 7, T-13-S, R-38-E

Gentlemen:

American Trading and Production Corporation is submitting to the Oil Conservation Commission, State of New Mexico, an application to convert the above referenced well to salt water disposal.

As required under the rules of the Commission, the surface owner of the subject lease and each offset operator is being furnished a copy of this application. Your copy is enclosed.

Should you have any questions, please do not hesitate to call.

Yours very truly,

Taylor

Ben Taylor (/ Senior Engineer

BDT/plp

Enclosure

AMERICAN TRADING AND PRODUCTION CORPORATION

THE ATRIUM CENTRE 110 WEST LOUISIANA SUITE 300 MIDLAND, TEXAS 79701

WEST TEXAS/NEW MEXICO DISTRICT

COPIES OF FORM C-108 AND PLAT CONCERNING AMERICAN TRADING AND PRODUCTION CORPORATION'S COY LOWE WELL NO. 1 WAS SENT TO THE FOLLOWING ENTITIES:

Mr. Coy Lowe Suite 1230 1500 Broadway Lubbock, Texas 79401

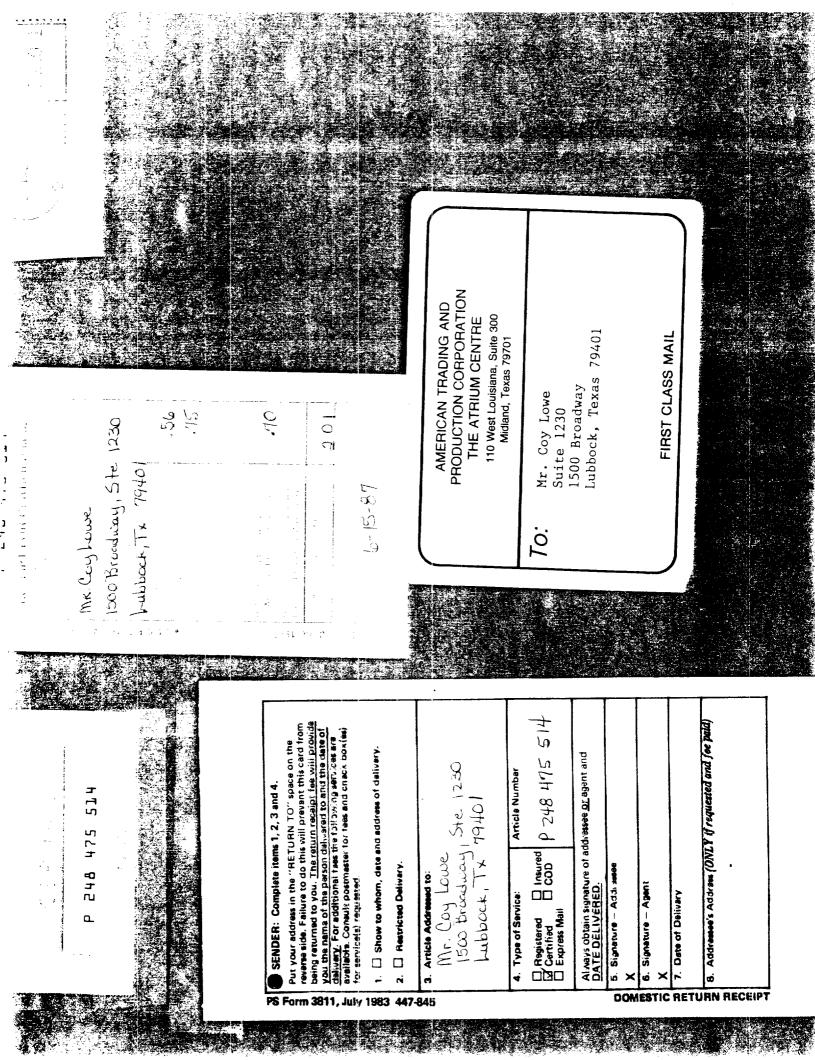
MGF 0il Corporation Box 360 700 Vaughn Building Midland, Texas 79702

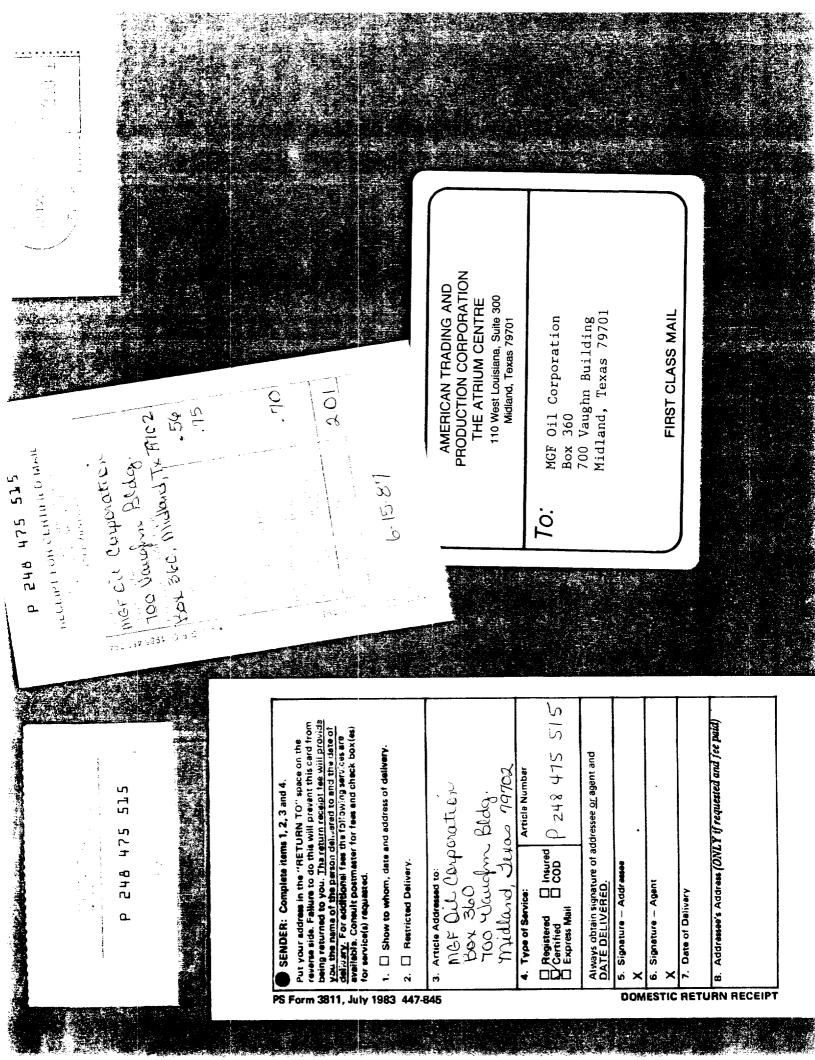
I personally sent copies of the above referenced FORM C-108 and location plat to the above names and addresses on June 15, 1987.

illen

Patti Pullen Production Clerk

915/684-4463







STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

12-12-37

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POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

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OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC_____ DHC_____ NSL_____ NSP_____ SWD_____ WFX_____ PMX

Gentlemen:

I have examined the application for the:

V Phral Co. Coy Lozce #1-E 11-13-38 Lease & Well No. Unit S-T-R Operator

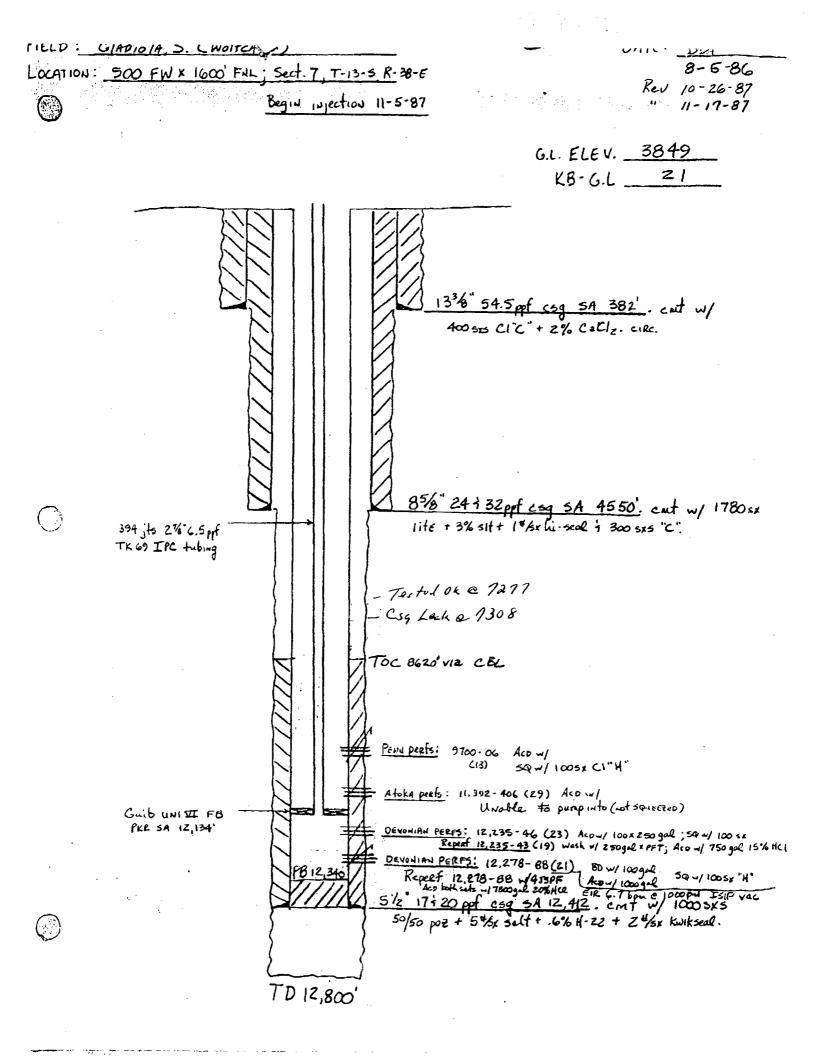
and my recommendations are as follows:

(

Yours very truly,

/Jerry Sexton Supervisor, District l

/ed



(1) 286 5% 174 N - 80 t L - 80 L T C - 10,089.92 C (S) (1) C - C - C - C - C - C - C - C - C - C	LEASE COY LOWE DELL NO. 1-7 PRESENT DEPTH 12,800 HOLE SIZE 7 CSG. DESG. W/JTS. OF EACH DELGHT AND CRADE (1) 57 51/2 204		
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(6) 286^{32} 175. 178 80 LTC $10,029$ 21 (7) J15. $15.$ 118 80 LTC 130.005 1088. (8) 287 31 s. $5/2$ 20 4 N 80 LTC 130.005 1088. (9) 1 LANDING JT. $5/2$ 20 4 N 80 LTC 42.36^{1} (10) 343 TOTAL JOINTS USED (PLUS SHOE & COLLAR). $12,416.55^{1}$ 42.36^{1} (10) 343 TOTAL JOINTS USED (PLUS SHOE & COLLAR). $12,416.55^{1}$ $12,416.55^{1}$ (11) CASING POINT BELOU RDB (10-11) $12,412.55^{1}$ $12,412.55^{1}$ (12) CASING POINT BELOU RDB (10-11) $12,391.55^{1}$ $12,391.55^{1}$ (13) RDB TO 10P GP PIPE 21.00^{1} $12,391.55^{1}$ (14) PIPE IN HOLE-THREADS OFF (12-1-3-13) $12,391.55^{1}$ $12,391.55^{1}$ (15) TRANS TO LOC. FROM HOUSTON "A" NO. JTS. $212,900.60^{1}$ TM (16) LEFT ON LOCATION CONDITION "A" NO. JTS. $12,390.55^{1}$ (17) LEFT ON LOCATION CONDITION "C" NO. JTS. $12,390.55^{1}$ (18) LEFT ON LOCATION CONDITION "C" NO. JTS. $12,290.60^{1}$ (19)	OVERALL LENCTH OF TOP COLLAR HEIGHT OF CASINC HEAD FOLLOWING IS SHOWN CASIN: AS RUN IN HOLE (BOTTOM TO TOP) SHOWN DESCRIPTION OF CASING IN EACH DIVISION (1) SHOE FOLLOWING IS SHOWN CASIN: AS RUN IN HOLE (BOTTOM TO TOP) SHOWN DESCRIPTION OF CASING IN EACH DIVISION (1) SHOE SHOWN DESCRIPTION OF CASING IN EACH DIVISION (1) SHOE SHOWN DESCRIPTION OF CASING IN EACH DIVISION (1) SHOE SHOWN DESCRIPTION OF CASING IN EACH DIVISION (1) SHOE SHOWN DESCRIPTION OF CASING IN EACH DIVISION (2) 1 JTS. 5½ 20 ⁴ N-80 LTC (3) COLLAR Float	<u> </u>	
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(10) 343 total joints used (plus shoe & collar). 12,446.55' (11) CASING ABOVE RDB 4.00 (12) CASING POINT BELOW RDB (10-11) 12,412.55 (13) RDB TO 10P OF PIPE 21.00 (14) PIPE IN HOLE-THREADS OFF (12-1-3-13) 12,391.55 (15) TRANS TO LOC. FROM Houston Shipper M ^S Clatchy HTP NO. JTS. 352 (16) LEFT ON LOCATION CONDITION "A" NO. JTS. (17) LEFT ON LOCATION CONDITION "C" NO. JTS. (18) LEFT ON LOCATION CONDITION "C" NO. JTS. (19) LEFT ON LOCATION CONDITION "E" 12.201.325	OVERALL LENCTH OF TOP COLLAR HEIGHT OF CASINC HEAD FOLLOWING IS SHOWN CASIN: AS RUN IN HOLE (BOTTOM TO TOP) SHOWN DESCRIPTION OF CASING IN EACH DIVISION (1) SHOE Float (2) 1 JTS. $5\frac{7}{2}$ 20 ⁴ N-80 LTC (3) COLLAR Float (4) Z7 JTS. $5\frac{7}{2}$ 20 ⁴ N-80 LTC (5) JTS. (6) 286 $3\frac{39}{15}$. (7) JIS.	<u> </u>	
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(12) CASING POINT BELOW RDB (10-11) $12,412.55$ (13) RDB TO 10P OF PIPE 21.00 (14) PIPE IN HOLE-THREADS OFF (12-1-3-13) $12,391.55$ (15) TRANS TO LOC. FROM Houston SHIPPER M ^S Clatchy HTP NO. JTS. 352 (16) LEFT ON LOCATION CONDITION "A" NO. JTS. (17) LEFT ON LOCATION CONDITION "B" NO. JTS. (18) LEFT ON LOCATION CONDITION "C" NO. JTS. (19) LEFT ON LOCATION CONDITION "E" $1-20$	NEIGHT OF TOP COLLAR HEIGHT OF CASINC HEAD FOLLOWING IS SHOWN CASIN: AS RUN IN HOLE (BOTTOM TO TOP) SHOWN DESCRIPTION OF CASINC IN EACH DIVISION (1) SHOE FOLLOWING IS SHOWN CASIN: AS RUN IN HOLE (BOTTOM TO TOP) SHOWN DESCRIPTION OF CASINC IN EACH DIVISION (1) SHOE (2) 1 JTS. JTS. SHOWN DESCRIPTION OF CASINC IN EACH DIVISION (4) JTS. (5) JTS. JTS. SHOWN CASIN: AS RUN IN HOLE (BOTTOM TO TOP) SHOWN DESCRIPTION OF CASINC IN EACH DIVISION (1) SHOE (1) JTS. JTS. SHOWN CASIN: AS RUN IN HOLE (BOTTOM TO TOP) SHOWN DESCRIPTION OF CASINC IN EACH DIVISION (1) JTS. SHOWN TO TOP JTS. SHOWN TO TOP JTS. SHOWN TO TOP JTS. SHOWN TO TOP JTS. <td col<="" td=""><td>$\frac{1.50'}{42.07'} \frac{1.50'}{1.50'} \frac{1.50'}{1.50'} \frac{1.08.40'}{10.08.92'} 10,13 \frac{10,009.92'}{10.088.9} \frac{1130.80'}{42.36'} 1088.9$</td></td>	<td>$\frac{1.50'}{42.07'} \frac{1.50'}{1.50'} \frac{1.50'}{1.50'} \frac{1.08.40'}{10.08.92'} 10,13 \frac{10,009.92'}{10.088.9} \frac{1130.80'}{42.36'} 1088.9$</td>	$ \frac{1.50'}{42.07'} \frac{1.50'}{1.50'} \frac{1.50'}{1.50'} \frac{1.08.40'}{10.08.92'} 10,13 \frac{10,009.92'}{10.088.9} \frac{1130.80'}{42.36'} 1088.9 $
(13) ROB TO TOP OF PIPE 21.00 (14) PIPE IN HOLE-THREADS OFF (12-1-3-13) $12.391.55$ (15) TRANS TO LOC. FROM Houston Shippek M ^S Clatchy HTO NO. JTS. 352 (16) LEFT ON LOCATION CONDITION "A" NO. JTS. (17) LEFT ON LOCATION CONDITION "B" NO. JTS. (18) LEFT ON LOCATION CONDITION "C" NO. JTS. (19) LEFT ON LOCATION CONDITION "E" $1-20.5$	OVERALL LENCTH OF TOP COLLAR HEIGHT OF CASINC HEAD FOLLOWING IS SHOWN CASIN: AS RUN IN HOLE (BOTTOM TO TOP) SHOWN DESCRIPTION OF CASING IN EACH DIVISION (1) SHOE Float (2) 1 JTS. $5\frac{7}{2}$ " 20 ⁴ N-80 LTC (3) COLLAR Float (4) Z7 JTS. $5\frac{7}{2}$ " 20 ⁴ N-80 LTC (5) JTS. (6) 286 28 JTS. (7) JTS. (8) 285 27 JTS. $5\frac{7}{2}$ Z0 ⁴ N-80 LTC (9) 1 LANDING JT. $5\frac{7}{2}$ Z0 ⁴ N-80 LTC (10) 343 TOTAL JOINTS USED (PLUS SHOE & COLLAR).	$ \begin{array}{r} $	
(15) TRANS TO LOC. FROM Houston Shippek M^{s} Clatting HTP NO. JTS. 352 212, 900.60' The (16) LEFT ON LOCATION CONDITION "B" NO. JTS. NO. JTS. (17) LEFT ON LOCATION CONDITION "C" NO. JTS. (18) LEFT ON LOCATION CONDITION "C" NO. JTS. (19) LEFT ON LOCATION CONDITION "E" NO. (19) LEFT ON LOCATION CONDITION "E" NO. (19) LEFT ON LOCATION CONDITION "E" (1	OVERALL LENCTH OF TOP COLLAR HEIGHT OF CASINC HEAD FOLLOWING IS SHOWN CASIN: AS RUN IN HOLE (BOTTOM TO TOP) SHOWN DESCRIPTION OF CASING IN EACH DIVISION (1) SHOE Float (2) 1 JTS. $5^{1}/2$ " 20 ⁴ N-80 LTC (3) COLLAR Float (4) Z7 JTS. $5^{1}/2$ " 20 ⁴ N-80 LTC (5) JTS. (6) 286 $3^{29}/_{15}$. (6) 286 $3^{29}/_{15}$. (7) JIS. (8) 286 $2^{7}/_{15}$. (9) 1 LANDING JT. $5^{1}/_{2}$ " 20 ⁴ N-80 LTC (10) 343 TOTAL JOINTS USED (PLUS SHOE & COLLAR). (11) CASING ABOVE RDB	$ \begin{array}{r} $	
(15) TRANS TO LOC. FROM Houston Shippek M^{s} Clatting HTP NO. JTS. 352 212, 900.60' The (16) LEFT ON LOCATION CONDITION "B" NO. JTS. NO. JTS. (17) LEFT ON LOCATION CONDITION "C" NO. JTS. (18) LEFT ON LOCATION CONDITION "C" NO. JTS. (19) LEFT ON LOCATION CONDITION "E" NO. (19) LEFT ON LOCATION CONDITION "E" NO. (19) LEFT ON LOCATION CONDITION "E" (1	OVERALL LENCTH OF TOP COLLAR HEIGHT OF CASINC HEAD FOLLOWING IS SHOW CASIN: AS RUN IN HOLE (BOTTOM TO TOP) SHOWN DESCRIPTION OF CASING IN EACH DIVISION (1) SHOE Float (2)	$ \begin{array}{r} 1.50' \\ $	
(16) LEFT ON LOCATION CONDITION "B" NO. JTS. (17) LEFT ON LOCATION CONDITION "B" NO. JTS. (18) LEFT ON LOCATION CONDITION "C" NO. JTS. (19) LEFT ON LOCATION CONDITION "E" NO. JTS.	OVERALL LENCTH OF TOP COLLAR FOLLOWING IS SHOWN CASING AS NUN IN HOLE (BOTTOM TO TOP) SHOWN DESCRIPTION OF CASING IN EACH DIVISION (1) SHOE Float (2) 1 JTS. $5\frac{7}{2}$ 20 ⁴ N-80 LTC (3) COLLAR Float (4) Z7 JTS. $5\frac{7}{2}$ 20 ⁴ N-80 LTC (5) JTS. (6) 2866 28 JTS. (7) JTS. (8) 2862 JTS. (9) 1 LANDING JT. $5\frac{7}{2}$ Z0 ⁴ N-80 LTC (9) 1 LANDING JT. $5\frac{7}{2}$ Z0 ⁴ N-80 LTC (10) 343 TOTAL JOINTS USED (PLUS SHOE & COLLAR). (11) CASING ABOVE RDB (12) CASING POINT BELOU RDB (10-11) (13) RDB TO TOP OF PIPE (14) PIPE IN HOLE-THREADS OFF (12-1-3-13)	$ \begin{array}{r} 1.50' \\ $	
(17) LEFT ON LOCATION CONDITION "E"	OVERALL LENCTH OF TOP COLLAR FOLLOWING IS SHOWN CASING AS NUN IN HOLE (BOTTOM TO TOP) SHOWN DESCRIPTION OF CASING IN EACH DIVISION (1) SHOE Float (2) 1 JTS. $5\frac{7}{2}$ 20 ⁴ N-80 LTC (3) COLLAR Float (4) Z7 JTS. $5\frac{7}{2}$ 20 ⁴ N-80 LTC (5) JTS. (6) 2866 28 JTS. (7) JTS. (8) 2862 JTS. (9) 1 LANDING JT. $5\frac{7}{2}$ Z0 ⁴ N-80 LTC (9) 1 LANDING JT. $5\frac{7}{2}$ Z0 ⁴ N-80 LTC (10) 343 TOTAL JOINTS USED (PLUS SHOE & COLLAR). (11) CASING ABOVE RDB (12) CASING POINT BELOU RDB (10-11) (13) RDB TO TOP OF PIPE (14) PIPE IN HOLE-THREADS OFF (12-1-3-13)	$ \begin{array}{r} 1.50' \\ $	
(18) LEFT ON LOCATION CONDITION "C"	OVERALL LENCTH OF TOP COLLAR HEIGHT OF CASTAC HEAD FOLLOWING IS SHOWN CASTAC AS AUN IN HOLE (BOTTOM TO TOP) SHOWN DESCRIPTION OF CASTAC IN EACH DIVISION (1) SHOE Float (2)	$ \begin{array}{r} 1.50' \\ $	
(19) LEFT ON LOCATION CONDITION "E"	OVERALL LENCTH OF TOP COLLAR HEIGHT OF CASINC HEAD FOLLOWING IS SHOWN CASING AS RUN IN HOLE (BOTTOM TO TOP) SHOWN DESCRIPTION OF CASING IN EACH DIVISION (1) SHOE Float (2)	$ \begin{array}{r} 1.50' \\ $	
	OVERALL LENGTH OF TOP COLLAR	$ \begin{array}{r} $	
	OVERALL LENGTH OF TOP COLLAR	$ \begin{array}{r} $	

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