**Atapco**
Oil & Gas Division / American Trading and Production Corporation

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.

1. 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.

7676 Hillmont • Suite 350 • Houston, Texas 77040-6400 • 713-460-2355 • Fax 713-462-7170

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

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

FORM C-108
Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no

II. Operator: American Trading and Production Corporation

Address: 110 W. Louisiana, Suite 300; Midland, Texas 79701

Contact party: Ben 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 ☒ 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: Ben Taylor Title Sr. Engineer

Signature: Ben Taylor 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. _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

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.

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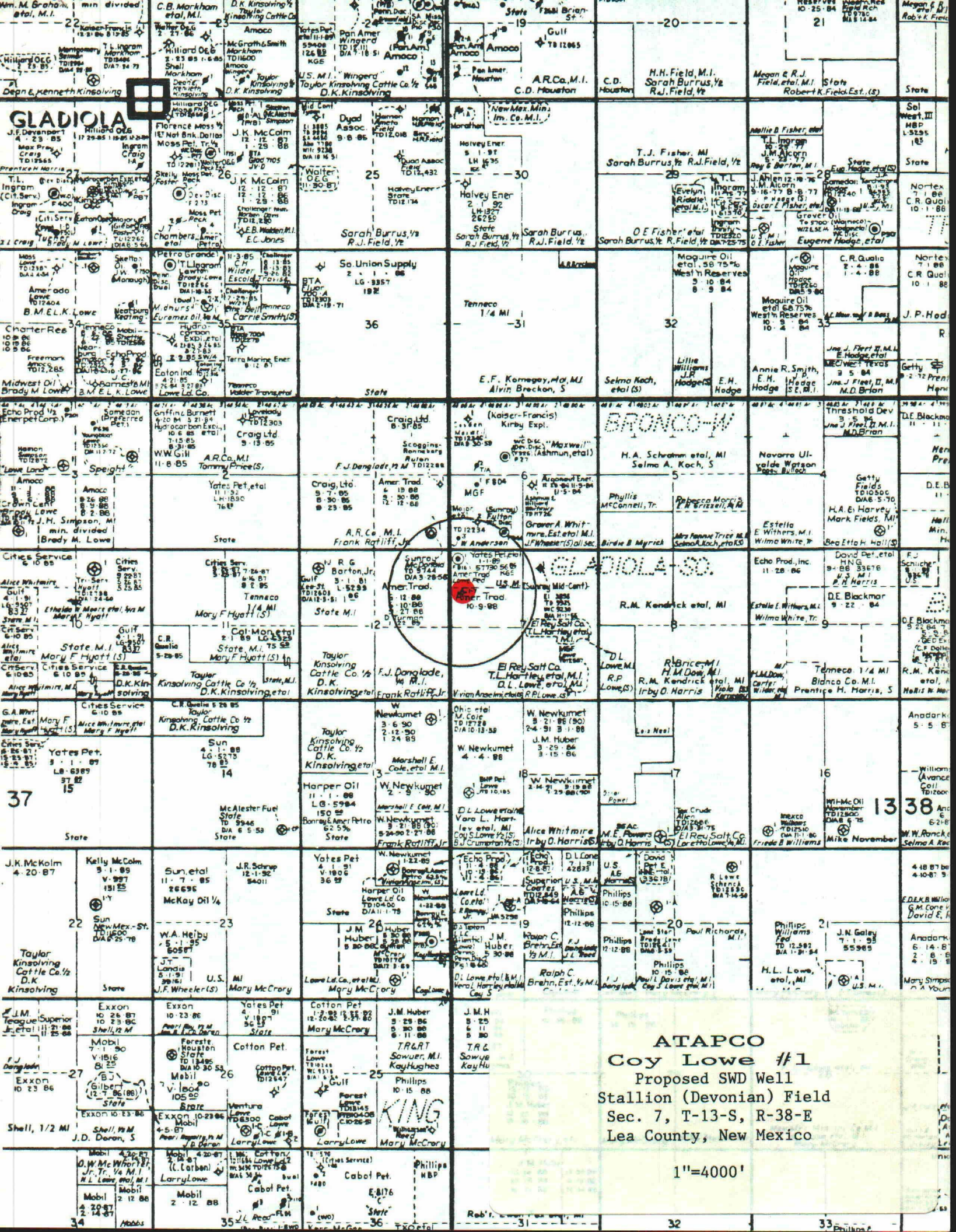
NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.


GLADIOLA
GLADIOLA-SO.
BRONCO-W
KING
ATAPCO
Coy Lowe #1
Proposed SWD Well
Stallion (Devonian) Field
Sec. 7, T-13-S, R-38-E
Lea County, New Mexico
1"=4000'

# 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

VI. Other Wells within Area of Review:

A. Operator: American Trading and Production Corporation
Well: Lowe Federal No. 1
Type: Oil Discovery - Stallion (Devonian) Field
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
Location: Sec. 7, T-13-S, R-38-E
330' FW X 330' FNL
Depth: 12,500'
Record of Completion: Perforated 12,190 - 12,210' w/1 JSPF

B. Operator: MGF Oil Corporation
Well: E.B. Anderason No. 3
Type: Oil Well
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
Depth: 12,210'
Record of Completion: Open hole 12,168 - 12,210'

C. 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'

D. Operator: Mid-Continent/Sunray
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
Location: Sec. 6, T-13-S, R-38-E
660' FS X 1977' FWL
Depth: 12,320'
Record of Completion: (Schematic Attached)

VII. Volumes of Fluids to be Injected:

1) 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.

A. Injection Zone
   Lithology: Dolomite
   Name: Devonian
   Thickness: Unknown
   Depth: Top @ 12,202'

B. Fresh Water Zone
   Name: Fresh Water Sands
   Depth: 380' (No known source of fresh water underlying the 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

FIELD: _____

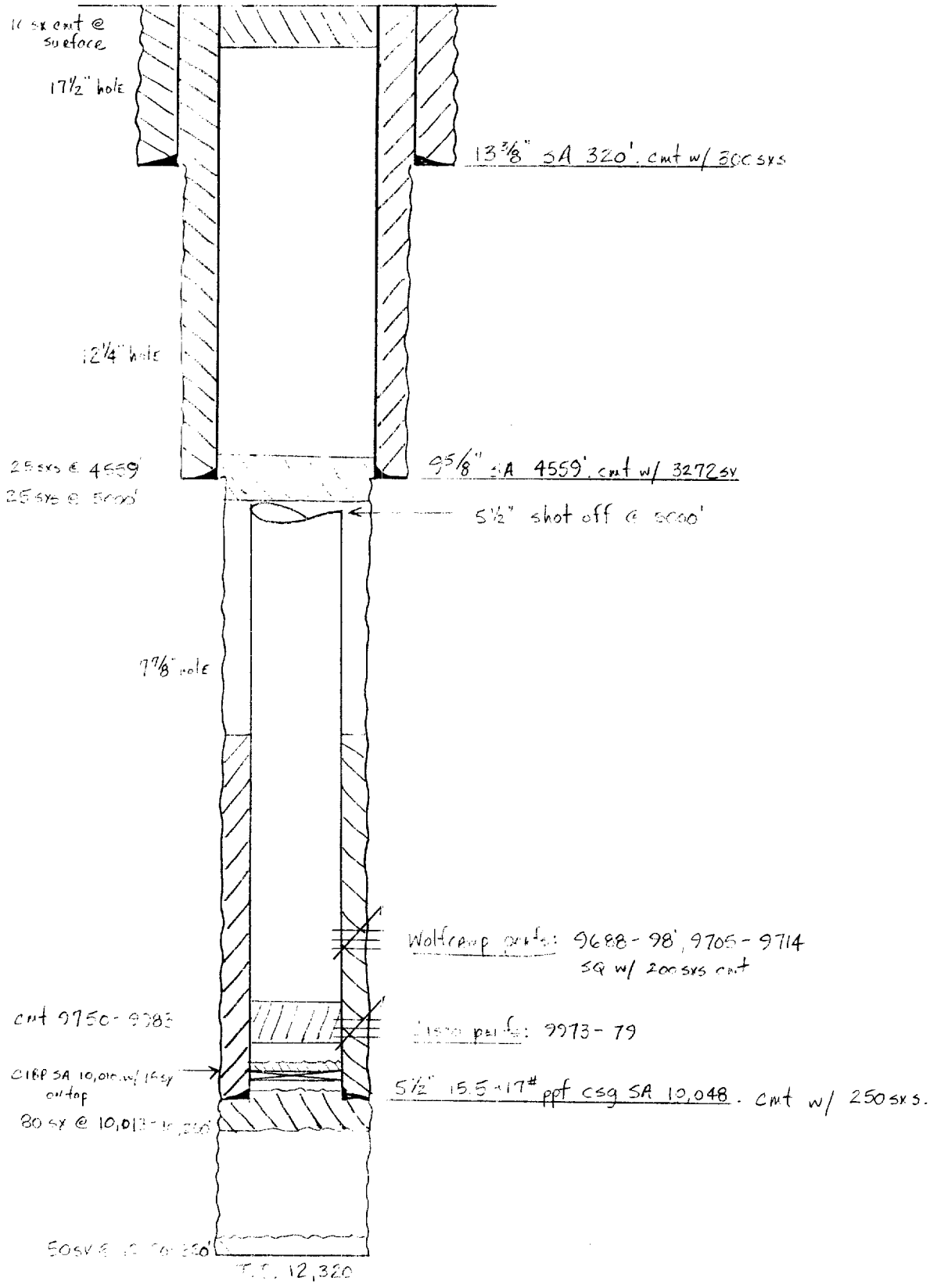
LOCATION: 660' FSX 1977' FWL, Sec. 6, T-13 [illegible]

II. D (cont'd)

DATE: 5-20-87
BDT

G.L. ELEV. _____

KB - G.L _____



LEASE: Coy Lowe No. 1-7

FIELD:

LOCATION: 500' FWX 1600' FNL; Sec. 7, T-13-S, R-38-E

Lea County, N.M.

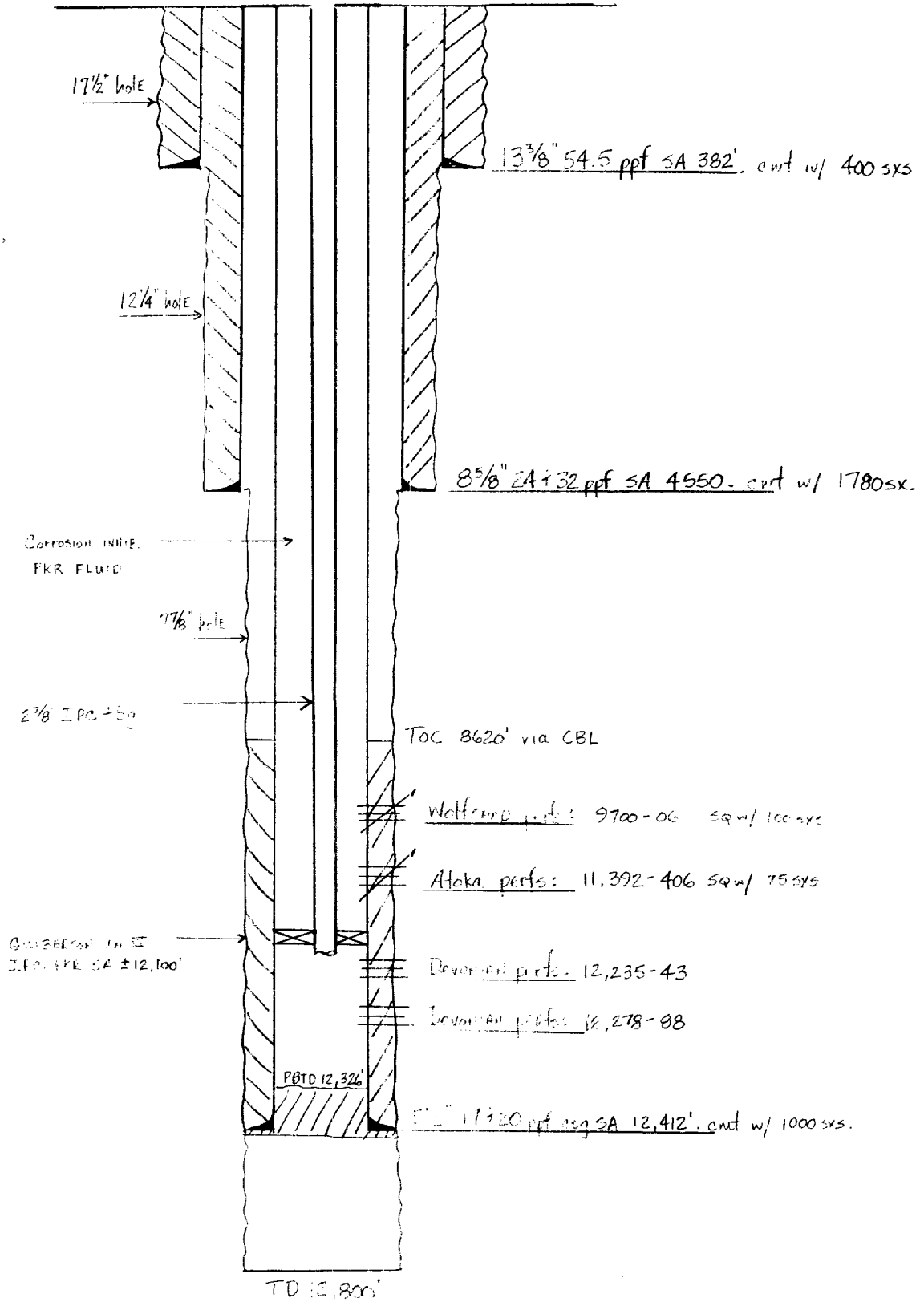
III. (Cont'd)

DATE: 5-20-87
BDT

Proposed SWD Installation

G.L. ELEV. 3849

KB-G.L 21



**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 87
and ending with the issue dated

June 5, 19 87

Robert L. Summers
Publisher.

Sworn and subscribed to before

me this 8 day of

June, 19 87

Vera Murphy
Notary Public.

My Commission expires_____

Nov. 14, 19 88
(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.

36 **LEGAL NOTICE**
**June 5, 1987**
**NOTICE OF APPLICATION FOR AUTHORIZATION TO INJECT**

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 the same zone.
Well Name: Coy Lowe #1.
Location of well: 500' FW & 1650' FNL; Sec. 7, T-13-S, R-38-E, Lea County, New Mexico.
Formation Name: Devonian
Depth: 12,250'
Maximum Injection Rate: 1000 BWPD Maximum Injection Pressure: Vacuum
Interested parties must file objection or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

1942 A

# HALLIBURTON DIVISION LABORATORY

**HALLIBURTON SERVICES**
**MIDLAND DIVISION**
**HOBBS, NEW MEXICO 88240**

## LABORATORY WATER ANALYSIS

No. 123

To American Trading

Date 6-5-87



Submitted by _____ Date Rec. _____

Well No. First Sample Depth _____ Formation _____

County _____ Field _____ Source _____

| | | | |
|---|---|---|---|
| Resistivity | 10.4 @ 70° | | |
| Specific Gravity | 1.001 | | |
| pH | 7.7 | | |
| Calcium (Ca) | 115 | | *MPL |
| Magnesium (Mg) | 120 | | |
| Chlorides (Cl) | Less than 500 | | |
| Sulfates ($SO_4$) | Nil | | |
| Bicarbonates ($HCO_3$) | 206 | | |
| Soluble Iron (Fe) | Nil | | |
| | | | |
| | | | |
| | | | |

Remarks:

*Milligrams per liter

C. Moore
Respectfully submitted,

Analyst: _____

HALLIBURTON COMPANY

cc:

By _____
CHEMIST

## NOTICE

AMERICAN TRADING AND PRODUCTION CORPORATION
THE ATRIUM CENTRE
110 WEST LOUISIANA
SUITE 300
MIDLAND, TEXAS 79701
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

Ben Taylor
Senior Engineer

BDT/plp

Enclosure

AMERICAN TRADING AND PRODUCTION CORPORATION
THE ATRIUM CENTRE
110 WEST LOUISIANA
SUITE 300
MIDLAND, TEXAS 79701

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

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Yours very truly,

Ben Taylor

Ben Taylor
Senior Engineer

BDT/plp

Enclosure

AMERICAN TRADING AND PRODUCTION CORPORATION
THE ATRIUM CENTRE
110 WEST LOUISIANA
SUITE 300
MIDLAND, TEXAS 79701

915/684-4463

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 Oil 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.

Patti Pullen

Patti Pullen
Production Clerk

P 248 475 514

Mr. Coy Lowe
1500 Broadway, Ste 1230
Lubbock, Tx 79401

.56
.75
.70
2.01

6-15-87

PS Form 3811, July 1983 447-845

**SENDER: Complete items 1, 2, 3 and 4.**

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☐ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
Mr. Coy Lowe
1500 Broadway, Ste 1230
Lubbock, Tx 79401

4. Type of Service:
☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail

Article Number
P 248 475 514

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X

7. Date of Delivery

8. Addressee's Address *(ONLY if requested and fee paid)*

DOMESTIC RETURN RECEIPT

AMERICAN TRADING AND
PRODUCTION CORPORATION
THE ATRIUM CENTRE
110 West Louisiana, Suite 300
Midland, Texas 79701

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

FIRST CLASS MAIL

P 248 475 515

P 248 475 515

RECEIPT FOR CERTIFIED MAIL

MGF Oil Corporation
700 Vaughn Bldg.
Box 360, Midland, Tx 79702

.56
.75
.70
2.01

6-15-87

PS Form 3811, July 1983 447-845

DOMESTIC RETURN RECEIPT

**SENDER: Complete items 1, 2, 3 and 4.**

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☐ Show to whom, date and address of delivery.
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3. Article Addressed to:
MGF Oil Corporation
Box 360
700 Vaughn Bldg.
Midland, Texas 79702

4. Type of Service:
☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail

Article Number
P 248 475 515

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X

7. Date of Delivery

8. Addressee's Address *(ONLY if requested and fee paid)*

AMERICAN TRADING AND
PRODUCTION CORPORATION
THE ATRIUM CENTRE
110 West Louisiana, Suite 300
Midland, Texas 79701

To:
MGF Oil Corporation
Box 360
700 Vaughn Building
Midland, Texas 79701

FIRST CLASS MAIL

STATE OF NEW MEXICO

# ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

HOBBS DISTRICT OFFICE

GARREY CARRUTHERS
GOVERNOR

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

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

RE: Proposed:
MC_____
DHC_____
NSL_____
NSP_____
SWD X
WFX_____
PMX_____

Gentlemen:

I have examined the application for the:

American Trading & Prod. Co. Coy Lowe #1-E 7-13-38
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK.

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed

FIELD: GLADIOLA, S. (WOLFCAMP)

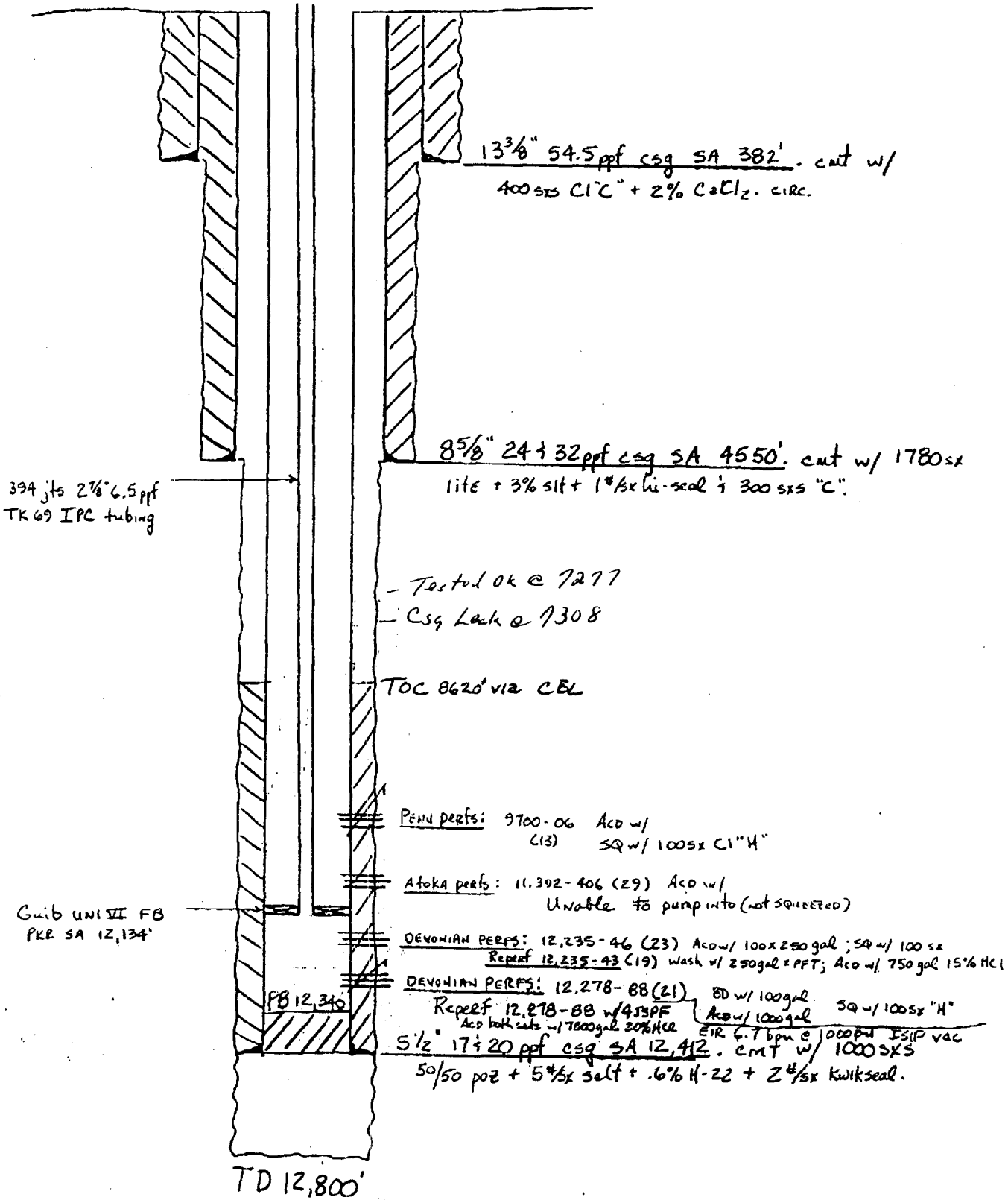
LOCATION: 500 FW x 1600' FNL; Sect. 7, T-13-S, R-38-E

Begin injection 11-5-87

8-6-86
Rev 10-26-87
" 11-17-87

G.L. ELEV. 3849

KB - G.L. 21



LEASE Coy Lowe WELL NO. 1-7 PRESENT DEPTH 12,800 HOLE SIZE 7⅞" DATE 8-4-86

CSG. DESC. W/JTS. OF EACH WEIGHT AND GRADE (1) 57 5½ 20# N-80 LTC - 2323.68 (Th off)

(2) 286 5½ 17# N-80 x L-80 LTC - 10,089.92 (Th off) (3)

(4) (5)

STARTED 1:00 AM/PM COMPLETED 1:00 AM/PM CASING SETTING POINT 12412 RDB/GL FLOAT SETTING API POINT 12,368 RDB/GL API

FLOAT EQUIP. shoe x collar CIRCULATED 60 MINS. CIRCULATING PRESSURE 400 PSI

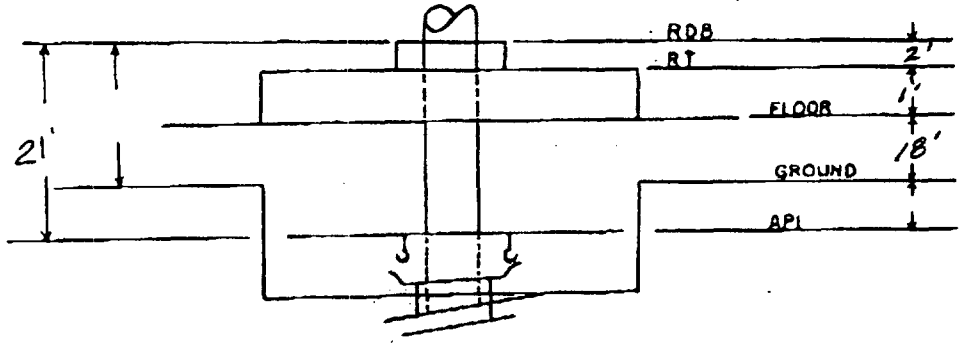
SCRATCHERS: CENTRALIZERS:

STARTED MIXING 11:48 AM/PM STARTED PLUG 12:13 AM/PM TIME TO PUMP PLUG 35 MINS. PLUG IN PLACE 12:48 AM/PM RDB/GL API

MAX PRESS PUMP PLUG 2200 PRESSURE ON PLUG 1700 BLED TO 0 PLUG STOPPED 12,368 RDB/GL API

WAS PLUG RETAINER USED — TYPE PLUG Rubber SLURRY WEIGHT 14.1 GAL LBS

CEMENTED WITH 1000 sx 50/50/2 poz "H" PERCENT CEMENT ADMIX USED + 5#/sx salt + .6% H-22 + 2#/sx kwikseal




SURFACE CASING ONLY: RDB TO TOP OF COLLAR

OVERALL LENGTH OF TOP COLLAR HEIGHT OF CASING HEAD

FOLLOWING IS SHOWN CASING AS RUN IN HOLE (BOTTOM TO TOP)
SHOWN DESCRIPTION OF CASING IN EACH DIVISION

| | | FEET |
|---|---|---|
| (1) SHOE | Float | 1.50' |
| (2) 1 JTS. | 5½" 20# N-80 LTC | 42.07' |
| (3) COLLAR | Float | 1.50' |
| (4) 27 JTS. | 5½" 20# N-80 LTC | 1108.40' |
| (5) JTS. | | |
| (6) ~~286~~ 281 JTS. | ~~5½" 17# N-80 L-80~~ LTC | ~~10,089.92'~~ 10,131.80 |
| (7) JTS. | | |
| (8) ~~28~~ 27 JTS. | 5½ 20# N-80 LTC | ~~1130.80'~~ 1088.92 |
| (9) 1 LANDING JT. | 5½" 20# N-80 LTC | 42.36' |
| (10) 343 TOTAL JOINTS USED (PLUS SHOE & COLLAR) | | 12,416.55' |
| (11) CASING ABOVE RDB | | 4.00 |
| (12) CASING POINT BELOW RDB (10-11) | | 12,412.55 |
| (13) RDB 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 SHIPPER M$ Clatchy MT# NO. JTS. 352 | | 12,900.60' Th on / 12,802.82 Th off |
| (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" NO. JTS. | | |
| (20) TRANS. AWAY FROM LOC. SHIPPER 1-20# - 42.02 B-M# - 349.74' NO. JTS. 9 | | 389.27 Th off |
| (21) CHARGEABLE TO LOCATION (14 + 16 + 17 + 18 + 19) NO. JTS. 343 | | 12,412.55 Th off |
| (22) CHARGEABLE TO LOCATION (15 - 20) NO. JTS. | | |

Cut jt 25.00'