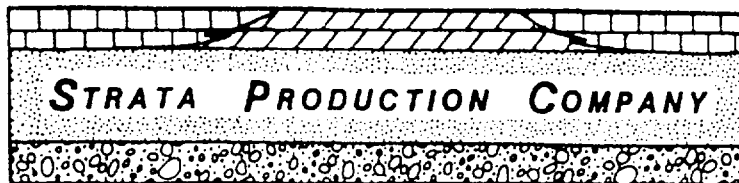


POST OFFICE DRAWER 1030
ROSWELL, NM 88202-1030



200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700
ROSWELL, NEW MEXICO 88201

TELEPHONE (505) 622-1127
FACSIMILE (505) 623-3533

RECEIVED
OIL CONSERVATION DIVISION
SEP 22 1992

September 22, 1992

RELEASE 10-8-92

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

Case 10601

Re: Proposed Water Disposal Well
SPC - Doris Federal #2
1780' FSL & 1980' FEL
Section 26-20S-28E
Eddy County, New Mexico

Gentlemen:

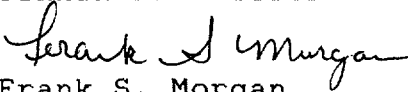
Strata Production Company proposes converting the captioned well for water disposal into the Upper Cherry Canyon formation of the Delaware Mountain Group. The well will be used to dispose of produced water from the Scanlon field basal Brushy Canyon (Delaware) sandstones. Please find enclosed the following data pertinent to our application:

1. Form C-108 with answers attached.
2. Area of Review Map.
3. Wellbore Diagram - Doris Federal #2.
4. Proposed Wellbore Diagram - Doris Federal #2.
5. Logs of the Doris Federal #2 showing proposed disposal perforations.
6. Wellbore Diagrams of plugged wells in Area of Review.
7. Copies of public notice and notices to offset operators.
8. Analysis from fresh water source. (Mailed under separate cover.)

Should you have any questions regarding this matter, please contact this office.

Sincerely,

STRATA PRODUCTION COMPANY


Frank S. Morgan
Vice President

FSM:cjg
Enclosures

7-100 4-100

Case 10601

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: Strata Production Company

Address: P. O. Box 1030, Roswell, New Mexico 88202-1030

Contact party: Frank S. Morgan, Vice President Phone: 505-622-1127

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: Frank S. Morgan

Title Vice President/Field Operations

Signature: Frank S. Morgan

Date: 9/22/92

* 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.

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.

ANSWERS TO FORM C-108:

III. See current and proposed well diagrams.

IV. No.

V. See Map.

VI. Table of data on the wells within the Area of Review.

Proposed Injection Well:

Doris Federal #2: Located 1780' FSL and 1980' FEL in Section 26, Township 20 South, Range 28 East, Eddy County, New Mexico. Spud 6/27/84 as the Liberty Oil & Gas Doris Federal #2. Set 13 3/8" 54.5# casing to 425'. Cemented with 375 sacks (circulated). Set 8 5/8" 24# casing to 2710'. Cemented with 1100 sacks. Set 5 1/2" 15.5# casing to 5715'. Cemented with 395 sacks (circulated). Perforated 5366'-5385'. Acidize with 15% HCL. Set CIBP at 5200' with 20' cement on top. Perforated 4520'-4540'. Acidize with 2000 gal 15% HCL. Frac with 33,000# 20/40 sand. Put on pump to test. Evaluation showed 3 BO and 175 BW. Liberty completed the well 3/7/86. Strata Production would squeeze perfs 4520'-4540'. ~~Perforate Upper Cherry Canyon to dispose in an interval 3030'-3274'.~~ Plastic coated packer and tubing to be placed in well bore. (Diagram attached).

Lee Federal #1: Located 2310' FSL and 660' FWL in Section 25, Township 20 South, Range 28 East, Eddy County, New Mexico. Spud 7/30/82. Set 13 3/8" casing to 610'. Cemented with 540 sacks (circulated). Set 9 5/8" casing to 2985'. Cemented with 2445 sacks (circulated). Set 5 1/2" 17# casing to 11,944'. Cemented with 485 sacks. Perforated Morrow 11,452'-11,508'. Producing gas well.

Lee Federal #4: Located 2100' FSL and 660' FWL in Section 25, Township 20 South, Range 28 East, Eddy County, New Mexico. Spud 5/16/84. Set 13 3/8" casing to 405'. Cemented with 500 sacks (circulated). TD 2198'. Lost 619' of fish in hole. Set plug from 455' to 355' with 75 sacks Class "C". 15 sacks cement at surface. P&A (Diagram enclosed).

Lee Federal #4-Y: Located 2100' FSL and 330' FWL in Section 25, Township 20 South, Range 28 East, Eddy County, New Mexico. Spud 6/2/84. Set 13 3/8" 54.5# casing to 405'. Cemented with 500 sacks (circulated). Set 8 5/8" 24# casing to 2703'. Cemented with 1837 sacks (circulated). Set 5 1/2" 15.5# casing to 6698'. Cemented with 770 sacks. Second stage. Perforate Bone Spring at 5452'-5470'. Acidize with 2000 gal 15% HCL and frac with 33,000# 20/40 sand, 20,000 gal gel with 25% CO₂. Perforate 5586'-5608'. Acidize with 2,000 gal 15% HCL. Frac with 33,000# 20/40 sand with 20,000 gal gel and 2% CO₂. Producing oil well.

Lee Federal #5: Located 860' FSL and 660' FWL in Section 25, Township 20 South, Range 28 East, Eddy County, New Mexico. Spud 7/28/84. Set 13 3/8" 54.5# casing to 417'. Cemented with 500 sacks (circulated). Parted 8 5/8" casing. Plug well as follows: First plug set from 2777'-2602' with 150 sacks Class "C"; Second plug set from 2077'-1897' with 50 sacks Class "C"; Third plug set from 466'-298' with 50 sacks Class "C"; Fourth plug set from 80' to surface with 30 sacks Class "C". Installed dry hole marker. P&A (Diagram enclosed).

Lee Federal #5-Y: Located 990' FSL and 712' FWL in Section 25, Township 20 South, Range 28 East, Eddy County, New Mexico, Spud 9/15/85. Set 13 7/8" 54.5# casing to 427'. Cemented with 400 sacks (circulated). Set 8 5/8" 24# and 28# casing to 2545' with 2075 sacks (circulated). Set 5 1/2" 15.5# casing to 6407'. Cemented with 1255 sacks (second stage). Perforate Bone Spring from 5572'-5592'. Acidize with 2,000 gal 15% HCL. Frac with 33,000# 20/40 sand with 455 bbls 2% KCL and 35# gel. Set CIBP at 5560' with 35' cement on top. Perforate 5372'-5448'. Random. Acidize with 2,000 gal 7 1/2% NEFE. Frac with 45,000 gal 70 quality Nit. and 57,000# 20/40 sand. Producing.

Doris Federal #1: Located 1980' FSL and 1980' FEL in Section 26, Township 20 South, Range 28 East, Eddy County, New Mexico. Spud 7/28/83. Set 13 3/8" casing to 621'. Cemented with 640 sacks (circulated). Set 9 5/8" casing to 2900'. Cemented with 1125 sacks (circulated). Set 5 1/2" casing to 11,619'. Cemented with 975 sacks Class "H". Set DV tool at 5514'. Perforate 11,163'-11,330'. Acidize with 105 gal 7 1/2% NEFE. Set CIBP at 11,400' with 35' cement on top. Perforated 10,952'-11,030'. Acidize with 3,000 gal Morflow. Set CIBP at 10,900' with 35 sacks cement. Set CIBP at 9050' with 35 sacks cement. Perforated from 4521'-4546'. Acidize with 1500 gal 7 1/2% NEFE. Frac with 54,000# 12/20 sand. Packer set at 4433'. Evaluating.

Doris Federal #3: Located 1980' FSL and 660' FEL in Section 26, Township 20 South, Range 28 East, Eddy County, New Mexico. Spud 7/11/84. Set 13 3/8" casing to 428'. Cemented with 475 sacks (circulated). Set 8 5/8" casing to 2719'. Cemented with 1780 sacks (circulated). Set 5 1/2" casing to 6308'. Cemented with 790 sacks (circulated). Perforated 5576'-5600'. Acidize with 2,000 gal 15% HCL. Set CIBP at 5528' with 10' cement on top. Perforated 5450'-5472'. Acidize with 2,000 gal 7 1/2% NEFE. Frac with 36,000# 20/40 sand and 19,500# 10/20 sand. Put on pump. Producing.

Conally #1: Located in Section 26, Township 20 South, Range 28 East, Eddy County, New Mexico. Spud in 1958. Set 8 5/8" 17# casing to 500'. Cemented with 65 sacks. TD 883'. Set 15 sack plug at 803', 10 sack plug at 80' and 5 sack plug at surface. P&A (Diagram enclosed).

Levers #1: Located in Unit C, NW/4NE/4 of Section 35, Township 20 South, Range 28 East, Eddy County, New Mexico. Spud 3/19/35. Set 10" casing to 105'. TD 825'. Set 15 sack plug at 125' and 15 sack plug at surface. P&A. Wills Production, Operator.

VII/VIII. INJECTION ZONE/PROCEDURE

<u>Zones to be injected:</u>	Upper Cherry Canyon Sandstones
	Delaware Mountain Group
	3030'-82' 3208'-24'
	3100'-34' 3254'-74'
	3145'-72'

This interval does not produce oil in the vicinity and is generally not productive in the Delaware Basin. The lowest injection zone is approximately 1800 feet above the uppermost pay objective in the Scanlon Delaware field. The uppermost injection zone is 400' below the top of the Delaware. Mudlog shows were not encountered in any of the Lee Federal or Doris Federal wells in this interval.

TYPE INJECTION SYSTEM:	Closed
PROPOSED DAILY INJECTION RATE:	200 barrels initial (.5BPM)
MAXIMUM DAILY INJECTION RATE:	450 barrels (1BPM)
AVERAGE INJECTION PRESSURE:	400 psi
MAXIMUM INJECTION PRESSURE:	600 psi

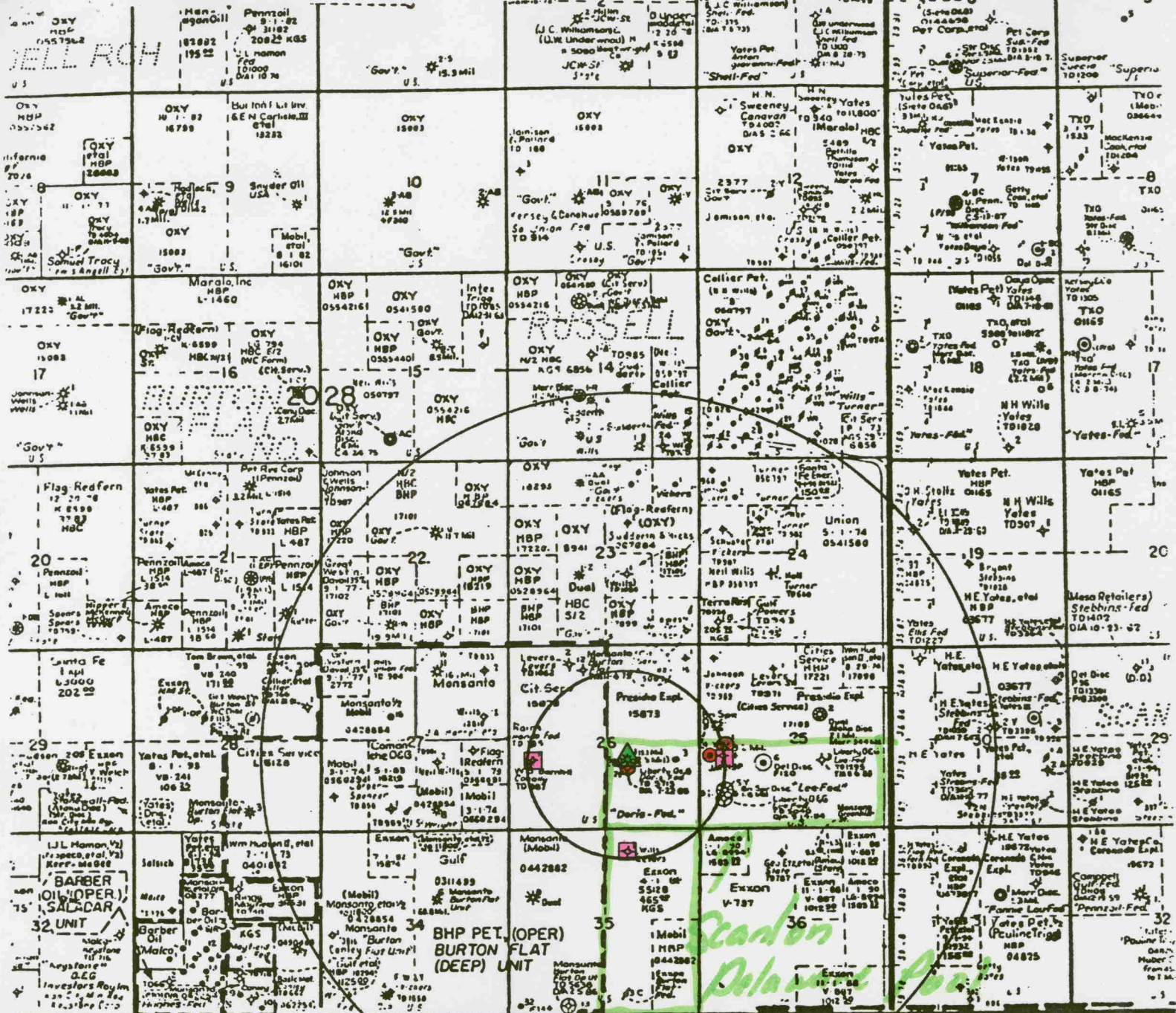
Water Compatibility: The water to be injected will initially come from the Lee Federal and Doris Federal wells producing from the Delaware from approximately 5100 to 5500 feet. Currently, the field produces approximately 30 barrels oil and 30 barrels water. Workovers in the Delaware are slated for October, 1992 and should produce more oil and water.

IX. Stimulation Program: None





X. See attached log showing perfs.

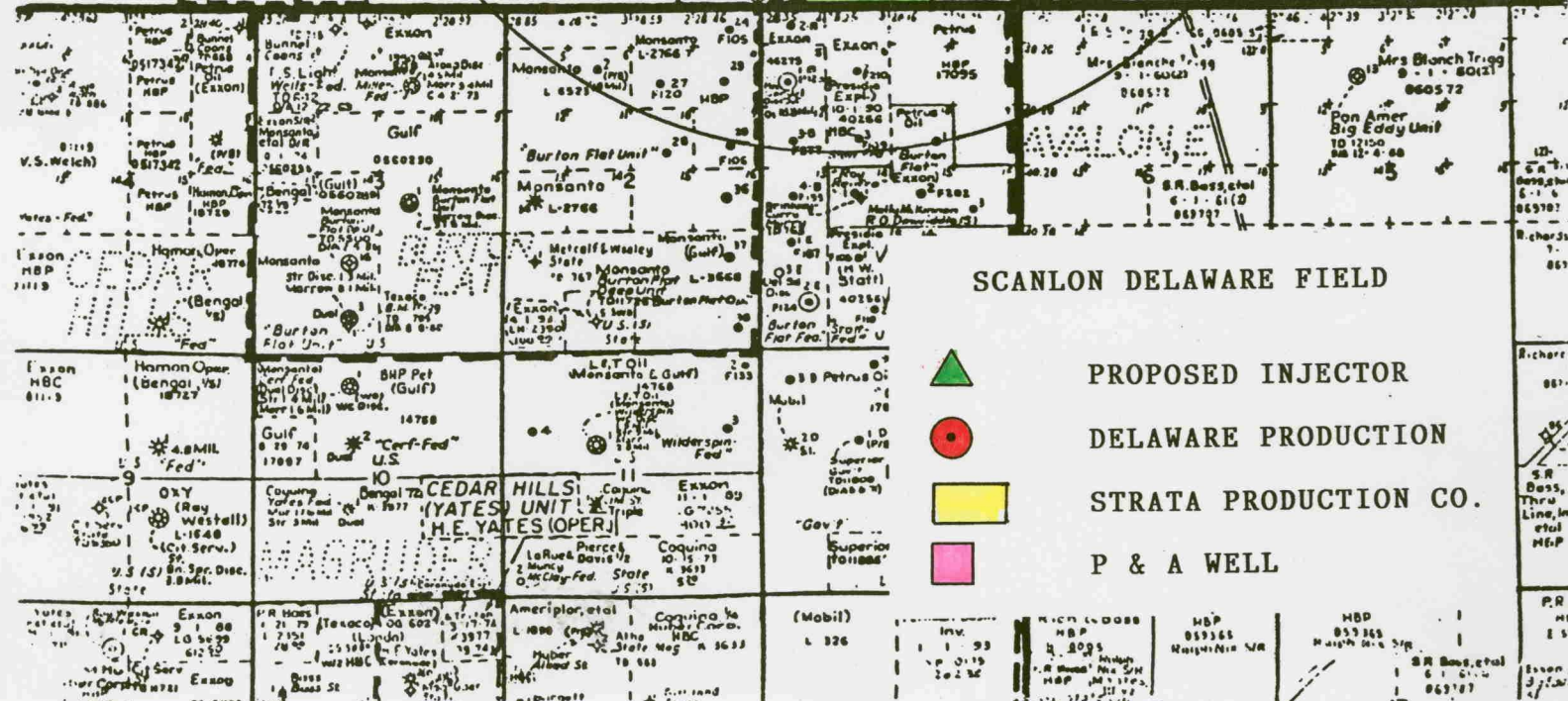
XI. Water Analysis.

XII. Strata Production Company has examined all available geologic and engineering data in this area and finds no evidence of open faults or other hydrologic connections between the disposal zone and any potable aquifers.

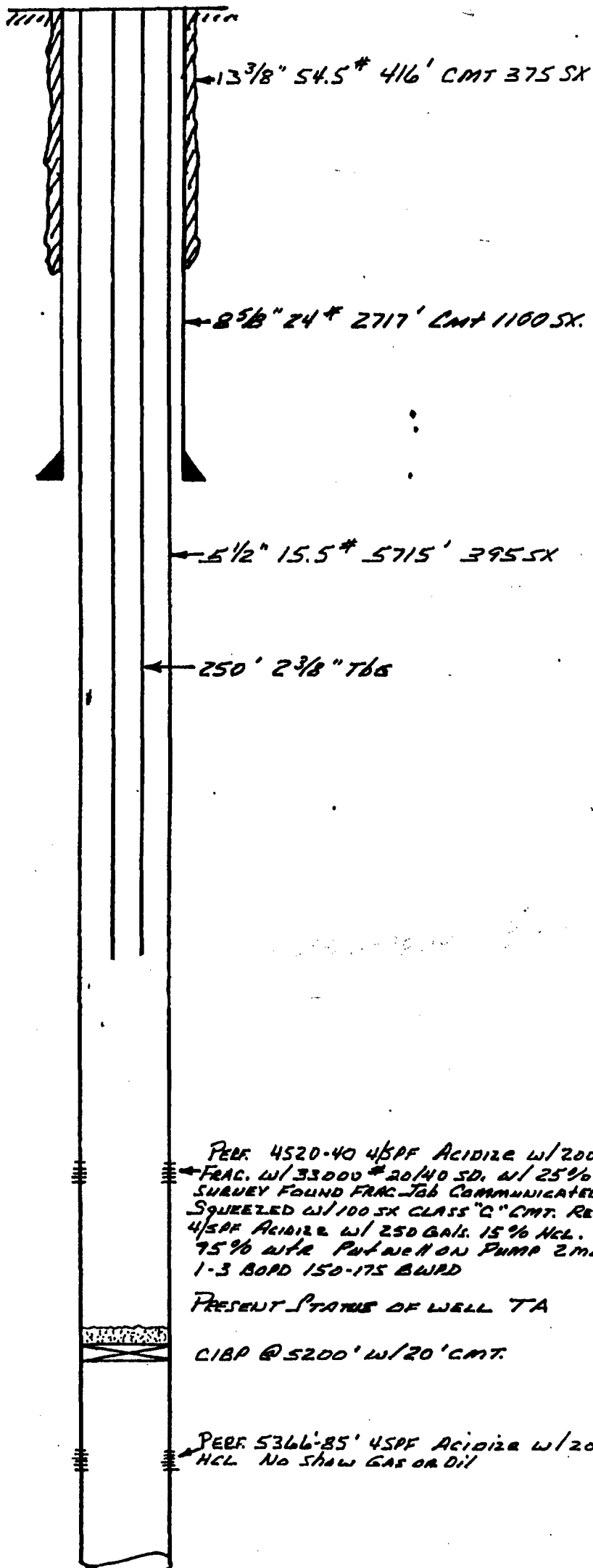


SCANLON DELAWARE FIELD

-  PROPOSED INJECTOR
-  DELAWARE PRODUCTION
-  STRATA PRODUCTION CO.
-  P & A WELL



DORIS FEDERAL #2
 1780' FSL & 1980' FEL
 Section 26-20S-28E
 Eddy County, New Mexico

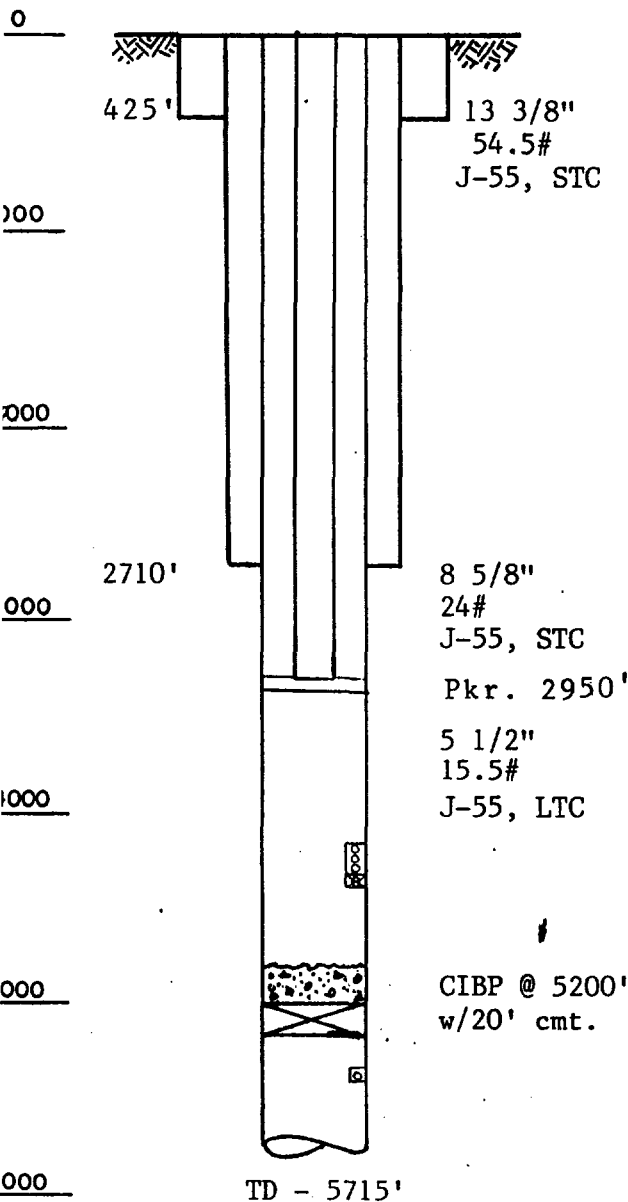


OPERATOR		LEASE		
Strata Production Co.		Doris Federal		
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
2	1780' FSL, 1980' FEL	26	T20S	R28E

DEPTH

Schematic

Tabular Data



Surface Casing

Size 13 3/8" at 425' Cemented with 375 ex.TOC Surface feet determined by CirculatedHole size 17 1/2"

Intermediate Casing

Size 8 5/8" at 2710' Cemented with 1100 ex.TOC Surface feet determined by CirculatedHole size 12 1/4"

Long string

Size 5 1/2" at 5715' Cemented with 395 ex.TOC Surface feet determined by CirculatedHole size 7 7/8"Total depth 5715'

Injection interval

4520 feet to 4530 feet
(perforated or open-hole, indicate which)Originally perforated (4 spf) from 4520' - 4540'
Squeezed w/100 SxS cmt. & reperforated from
4520' - 4530'

Tubing size 2 3/8" lined with Plastic set in a
(material)
Model - R (Plastic Coated) packer at 2950 feet
(brand and model)

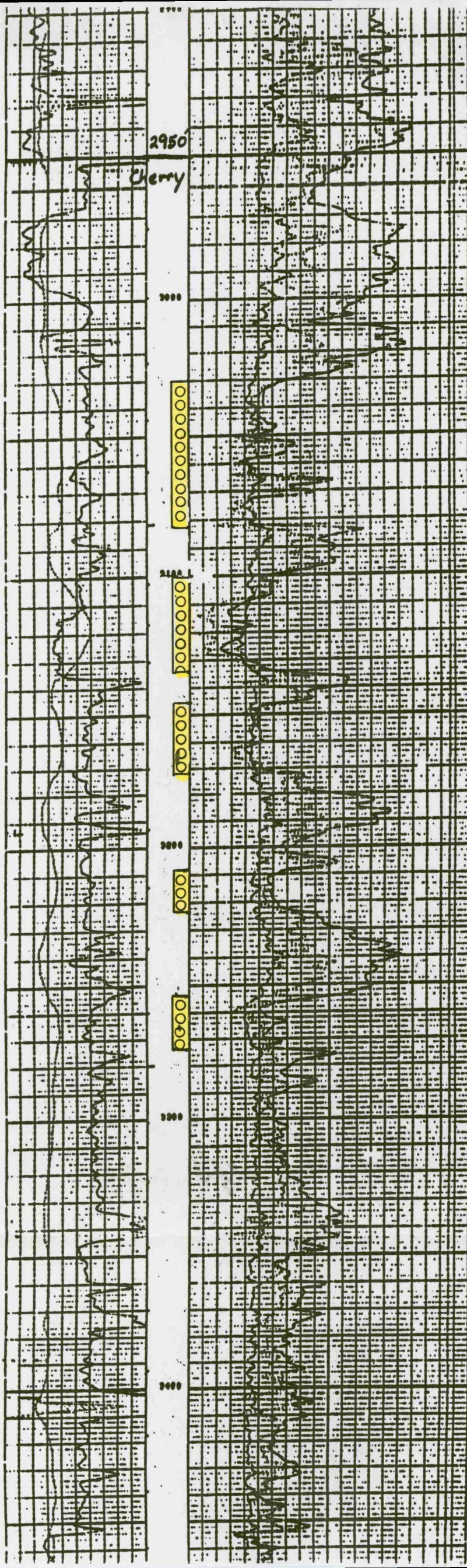
(or describe any other casing-tubing seal).

Other Data

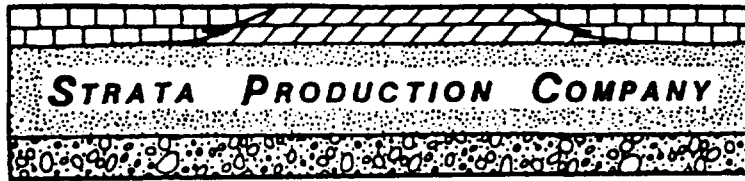
- Name of the injection formation Delaware (Upper Cherry Canyon)
- Name of field or pool (if applicable) Scanlon Delaware
- Is this a new well drilled for injection? ☐ Yes ☒ No
If no, for what purpose was the well originally drilled? Oil and gas
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) Yes. 5366'-5388'.
CIBP at 5200' with 35' cement on top. Will squeeze perfs at 4520'-4540'.
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. The lowest injection zone is approximately 1800 feet above
the uppermost pay objective in the Scanlon Delaware field. The
uppermost injection zone is 400' below the top of the Delaware.

Doris Federal #2
1780' FSL & 1980' FEL
Section 26-20S-28E
Eddy County, New Mexico

PROPOSED ZONES OF INJECTION



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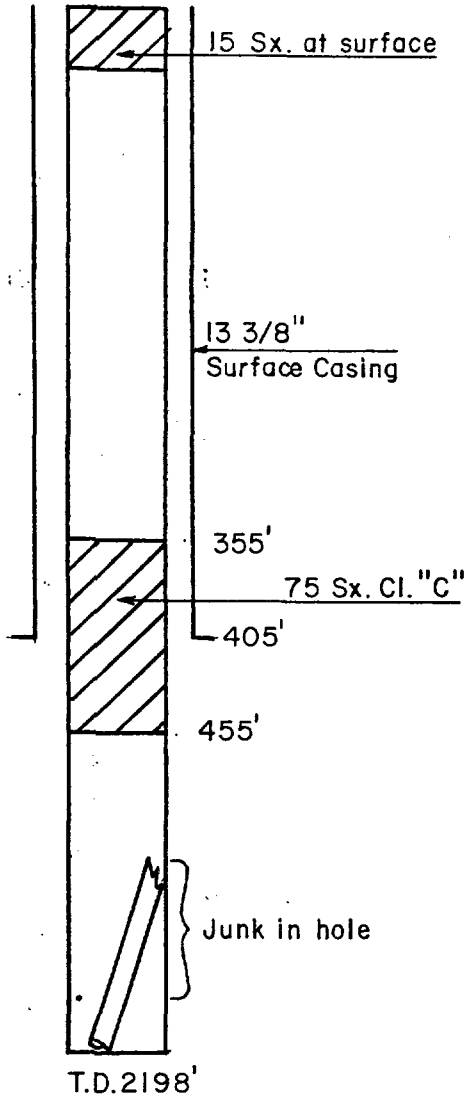


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ROSWELL, NEW MEXICO 88201

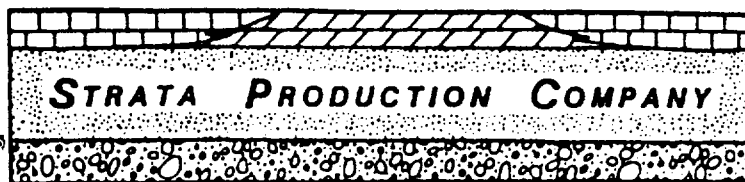
TELEPHONE (505) 622-1127
FACSIMILE (505) 623-3533

LEE FEDERAL #4

Located 2100' FSL and 660' FWL in Section 25, Township 20 South, Range 28 East, Eddy County, New Mexico. Spud 5/16/84. Set 13 3/8" casing to 405'. Cemented with 500 sacks (circulated). TD 2198'. Lost 619' of fish in hole. Set plug from 455' to 355' with 75 sacks Class "C". 15 sacks at surface. P&A.

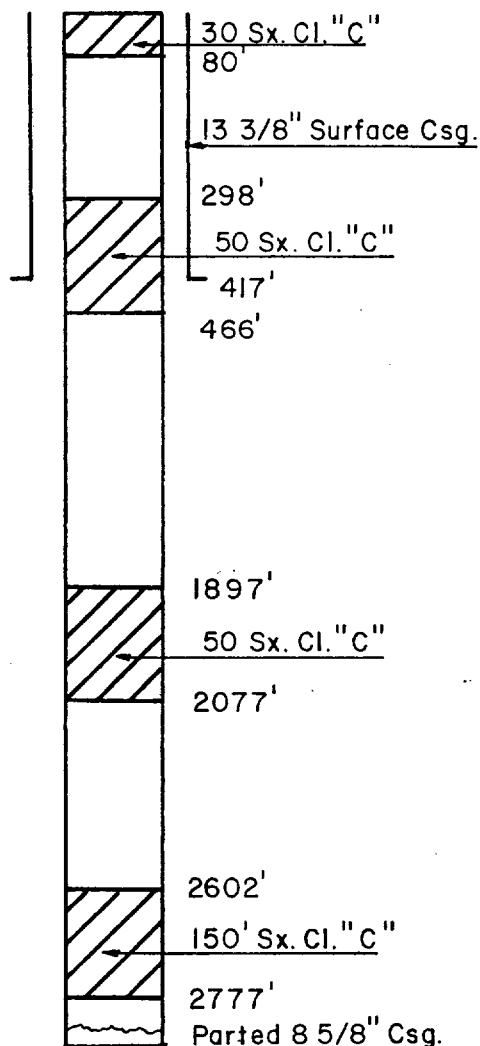


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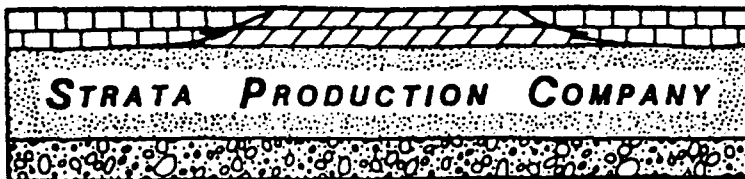


T.D.2831

LEE FEDERAL #5

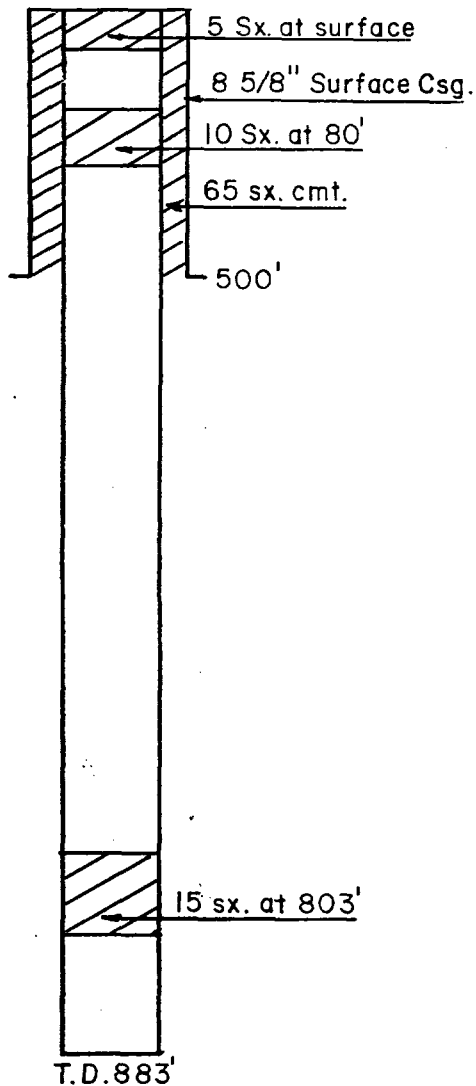
Located 860' FSL and 660' FWL in Section 25, Township 20 South, Range 28 East, Eddy County, New Mexico. Spud 7/28/84. Set 13 3/8" 54.5# casing to 417'. Cemented with 500 sacks (circulated). Parted 8 5/8" casing. Plug well as follows: First plug set from 2777'-2602' with 150 sacks Class "C"; Second plug set from 2077'-1897' with 50 sacks Class "C"; Third plug set from 466'-298' with 50 sacks Class "C"; Fourth plug set from 80' to surface with 30 sacks Class "C". Installed dry hole marker. P&A.

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ROSWELL, NEW MEXICO 88201

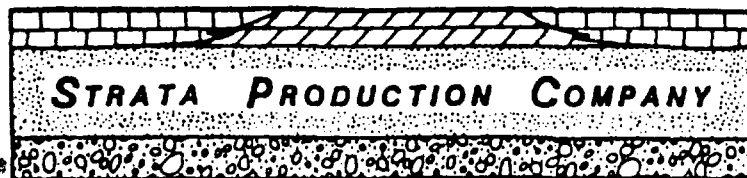
TELEPHONE (505) 622-1127
FACSIMILE (505) 623-3533



CONALLY #1

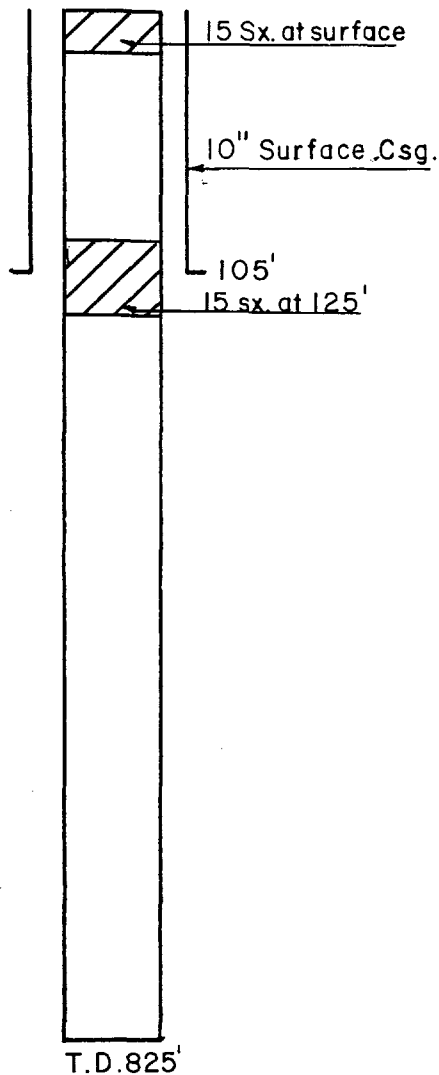
Located in Section 26, Township 20 South, Range 28 East, Eddy County, New Mexico. Spud in 1958. Set 8 5/8" 17# casing to 500'. Cemented with 65 sacks. TD 883'. Set 15 sack plug at 803', 10 sack plug at 80', 5 sack plug at surface. P&A.

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ROSWELL, NEW MEXICO 88201

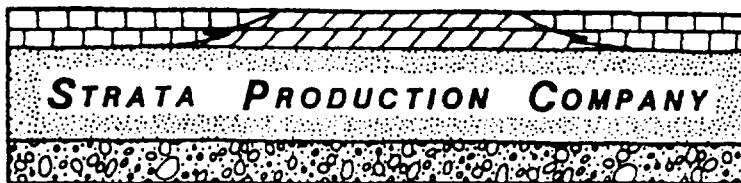
TELEPHONE (505) 622-1127
FACSIMILE (505) 623-3533



LEVERS #1

Located in Unit C, NW/4NE/4 of
Section 35, Township 20 South, Range
28 East, Eddy County, New Mexico.
Spud 3/19/35. Set 10" casing to
105'. TD 825'. Set 15 sack plug at
125' and 15 sack plug at surface.
P&A. Wills Production, Operator.

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TELEPHONE (505) 622-1127
FACSIMILE (505) 623-3533

200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700
ROSWELL, NEW MEXICO 88201

September 22, 1992

Carlsbad Current-Argus
620 S. Main
Carlsbad, New Mexico 88220

Re: Legal Publications

Gentlemen:

Enclosed herewith please find a Legal Notice to be published in your newspaper at the earliest possible date.

Please publish the notice one (1) time only and forward an Affidavit of Publication along with your invoice to:

Frank S. Morgan
Strata Production Company
P. O. Box 1030
Roswell, New Mexico 88202-1030

Should you have any questions regarding this matter, please contact this office. Thank you for your cooperation.

Sincerely,

STRATA PRODUCTION COMPANY

A handwritten signature in cursive script, appearing to read "Frank S. Morgan".

Frank S. Morgan
Vice President

FSM:cjg

Enclosure

PUBLIC NOTICE

APPLICATION FOR WATER DISPOSAL

Strata Production Company, P. O. Box 1030, Roswell, New Mexico 88202-1030, (Contact: Frank S. Morgan, 505-622-1127), has filed Application with the Oil Conservation Division, Energy, Minerals and Natural Resources Department, State of New Mexico, for Administrative Approval and authority to inject salt water into the Doris Federal #2 well located 1780' FSL and 1980' FEL of Section 26, Township 20 South, Range 28 East, NMPM, Eddy County, New Mexico.

The purpose of the water injection well is to dispose of salt water produced from the Scanlon Delaware field as currently designated by the Oil Conservation Division and as may be extended by additional drilling.

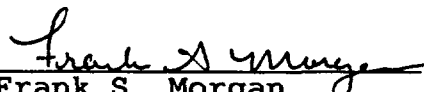
Water to be disposed will be injected into the Upper Cherry Canyon formation of the Delaware Mountain group at an interval between 3030 feet to 3274 feet beneath the surface.

The minimum injection rate is expected to be approximately 200 barrels of water per day. The maximum injection rate is expected to be approximately 450 barrels of water per day.

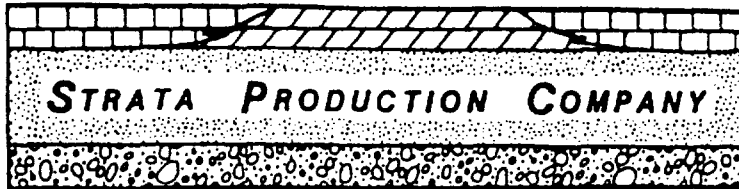
Minimum injection pressure is expected to be approximately 400 psi. The maximum injection pressure is expected to be approximately 600 psi.

Any interested party may file an objection to the Application or may request a public hearing. Any objection or request for hearing must be filed with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87504-2088 within 15 days from the date of publication.

STRATA PRODUCTION COMPANY

By: 
Frank S. Morgan
P. O. Box 1030
Roswell, New Mexico 88202-1030
Telephone 505-622-1127

POST OFFICE DRAWER 1030
ROSWELL, NM 88202-1030



TELEPHONE (505) 622-1127
FACSIMILE (505) 623-3533

200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700
ROSWELL, NEW MEXICO 88201

September 22, 1992

CERTIFIED/RETURN RECEIPT REQUESTED

Cities Service Oil & Gas Corp.
P. O. Box 3908 25 Sta TC
Tulsa, OK 74102

Re: Salt Water Disposal Well
Scanlon Delaware Field
Doris Federal #2
Section 26-20S-28E
Eddy County, New Mexico

Gentlemen:

As an operator of an oil and gas lease within one-half mile of the Doris Federal #2 well located 1780' FSL and 1980' FEL of Section 26, Township 20 South, Range 28 East, Eddy County, New Mexico, please note the following.

Strata Production Company is filing Application to the New Mexico Oil Conservation Division for authority to convert the Doris Federal #2 to a water disposal well for the re-injection of water produced from the Scanlon Delaware field into porous zones in the Upper Cherry Canyon formation.

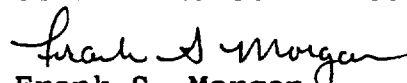
Consequently, and pursuant to the rules and regulations of the NMOCD, enclosed please find a copy of the NMOCD form C-108 which is the Application for Authorization to Inject.

If you have an objection to the Application or feel that a public hearing is necessary, please contact the NMOCD, P. O. Box 2088, Santa Fe, New Mexico 87504-2088. You may also contact Mr. Frank S. Morgan, Strata Production Company, P. O. Box 1030, Roswell, New Mexico 88202-1030, telephone 505-622-1127.

If you do not have an objection to the above mentioned Application, please sign one copy of this letter in the space provided and return to the undersigned.

Sincerely,

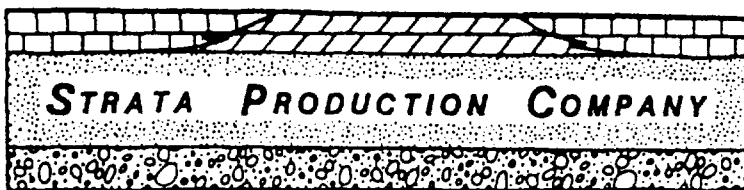
STRATA PRODUCTION COMPANY


Frank S. Morgan
Vice President

We do not object to the Application.
CITIES SERVICE OIL & GAS CORP.

By: _____
Dated: _____

POST OFFICE DRAWER 1030
ROSWELL, NM 88202-1030



TELEPHONE (505) 622-1127
FACSIMILE (505) 623-3533

200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700
ROSWELL, NEW MEXICO 88201

September 22, 1992

CERTIFIED/RETURN RECEIPT REQUESTED

Exxon Company, USA
P. O. Box 1600
Midland, TX 79702-1600

Re: Salt Water Disposal Well
Scanlon Delaware Field
Doris Federal #2
Section 26-20S-28E
Eddy County, New Mexico

Gentlemen:

As an operator of an oil and gas lease within one-half mile of the Doris Federal #2 well located 1780' FSL and 1980' FEL of Section 26, Township 20 South, Range 28 East, Eddy County, New Mexico, please note the following.

Strata Production Company is filing Application to the New Mexico Oil Conservation Division for authority to convert the Doris Federal #2 to a water disposal well for the re-injection of water produced from the Scanlon Delaware field into porous zones in the Upper Cherry Canyon formation.

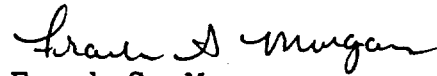
Consequently, and pursuant to the rules and regulations of the NMOCD, enclosed please find a copy of the NMOCD form C-108 which is the Application for Authorization to Inject.

If you have an objection to the Application or feel that a public hearing is necessary, please contact the NMOCD, P. O. Box 2088, Santa Fe, New Mexico 87504-2088. You may also contact Mr. Frank S. Morgan, Strata Production Company, P. O. Box 1030, Roswell, New Mexico 88202-1030, telephone 505-622-1127.

If you do not have an objection to the above mentioned Application, please sign one copy of this letter in the space provided and return to the undersigned.

Sincerely,

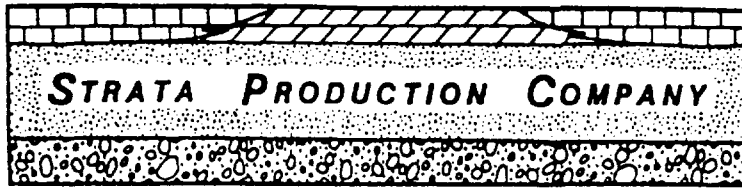
STRATA PRODUCTION COMPANY


Frank S. Morgan
Vice President

We do not object to the Application.
EXXON COMPANY, USA

By: _____
Dated: _____

POST OFFICE DRAWER 1030
ROSWELL, NM 88202-1030



TELEPHONE (505) 622-1127
FACSIMILE (505) 623-3533

200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700
ROSWELL, NEW MEXICO 88201

September 22, 1992

CERTIFIED/RETURN RECEIPT REQUESTED

Monsanto Company
P. O. Box 711
Alvin, TX 77511

Re: Salt Water Disposal Well
Scanlon Delaware Field
Doris Federal #2
Section 26-20S-28E
Eddy County, New Mexico

Gentlemen:

As an operator of an oil and gas lease within one-half mile of the Doris Federal #2 well located 1780' FSL and 1980' FEL of Section 26, Township 20 South, Range 28 East, Eddy County, New Mexico, please note the following.

Strata Production Company is filing Application to the New Mexico Oil Conservation Division for authority to convert the Doris Federal #2 to a water disposal well for the re-injection of water produced from the Scanlon Delaware field into porous zones in the Upper Cherry Canyon formation.


Consequently, and pursuant to the rules and regulations of the NMOCD, enclosed please find a copy of the NMOCD form C-108 which is the Application for Authorization to Inject.

If you have an objection to the Application or feel that a public hearing is necessary, please contact the NMOCD, P. O. Box 2088, Santa Fe, New Mexico 87504-2088. You may also contact Mr. Frank S. Morgan, Strata Production Company, P. O. Box 1030, Roswell, New Mexico 88202-1030, telephone 505-622-1127.

If you do not have an objection to the above mentioned Application, please sign one copy of this letter in the space provided and return to the undersigned.

Sincerely,

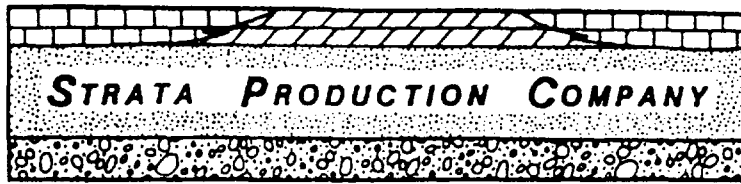
STRATA PRODUCTION COMPANY


Frank S. Morgan
Vice President

We do not object to the Application.
MONSANTO COMPANY

By: _____
Dated: _____

POST OFFICE DRAWER 1030
ROSWELL, NM 88202-1030



TELEPHONE (505) 622-1127
FACSIMILE (505) 623-3533

200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700
ROSWELL, NEW MEXICO 88201

September 22, 1992

Jimmy Spears
P. O. Box 1017
Carlsbad, New Mexico 88220

CERTIFIED/RETURN
RECEIPT REQUESTED

Re: Salt Water Disposal Well
Scanlon Delaware Field
Doris Federal #2
Section 26-20S-28E
Eddy County, New Mexico

Dear Mr. Spears:

As a surface lease owner of an oil and gas lease within one-half mile of the Doris Federal #2 well located 1780' FSL and 1980' FEL of Section 26, Township 20 South, Range 28 East, Eddy County, New Mexico, please note the following.

Strata Production Company is filing Application to the New Mexico Oil Conservation Division for authority to convert the Doris Federal #2 to a water disposal well for the re-injection of water produced from the Scanlon Delaware field into porous zones in the Upper Cherry Canyon formation.

Consequently, and pursuant to the rules and regulations of the NMOCD, enclosed please find a copy of the NMOCD form C-108 which is the Application for Authorizaton to Inject.

If you have an objection to the Application or feel that a public hearing is necessary, please contact the NMOCD, P. O. Box 2088, Santa Fe, New Mexico 87504-2088. You may also contact Mr. Frank S. Morgan, Strata Production Company, P. O.Box 1030, Roswell, New Mexico 88202-1030, telephone 505-622-1127.

If you do not have an objection to the above mentioned Application, please sign one copy of this letter in the space provided and return to the undersigned.

Sincerely,

STRATA PRODUCTION COMPANY

A handwritten signature in dark ink, appearing to read "Frank S. Morgan", is written over the typed name.

Frank S. Morgan
Vice President

We do not object to the Application.

Jimmy Spears
Dated: _____

Case 10601

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: Strata Production Company

Address: P. O. Box 1030, Roswell, New Mexico 88202-1030

Contact party: Frank S. Morgan, Vice President Phone: 505-622-1127

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: Frank S. Morgan

Title Vice President/Field Operation

Signature: Frank S. Morgan

Date: 9/22/92

* 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.

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.

ANSWERS TO FORM C-108:

III. See current and proposed well diagrams.

IV. No.

V. See Map.

VI. Table of data on the wells within the Area of Review.

Proposed Injection Well:

Doris Federal #2: Located 1780' FSL and 1980' FEL in Section 26, Township 20 South, Range 28 East, Eddy County, New Mexico. Spud 6/27/84 as the Liberty Oil & Gas Doris Federal #2. Set 13 3/8" 54.5# casing to 425'. Cemented with 375 sacks (circulated). Set 8 5/8" 24# casing to 2710'. Cemented with 1100 sacks. Set 5 1/2" 15.5# casing to 5715'. Cemented with 395 sacks (circulated). Perforated 5366'-5385'. Acidize with 15% HCL. Set CIBP at 5200' with 20' cement on top. Perforated 4520'-4540'. Acidize with 2000 gal 15% HCL. Frac with 33,000# 20/40 sand. Put on pump to test. Evaluation showed 3 BO and 175 BW. Liberty completed the well 3/7/86. Strata Production would squeeze perfs 4520'-4540'. Perforate Upper Cherry Canyon to dispose in an interval 3030'-3274'. Plastic coated packer and tubing to be placed in well bore. (Diagram attached).

Lee Federal #1: Located 2310' FSL and 660' FWL in Section 25, Township 20 South, Range 28 East, Eddy County, New Mexico. Spud 7/30/82. Set 13 3/8" casing to 610'. Cemented with 540 sacks (circulated). Set 9 5/8" casing to 2985'. Cemented with 2445 sacks (circulated). Set 5 1/2" 17# casing to 11,944'. Cemented with 485 sacks. Perforated Morrow 11,452'-11,508'. Producing gas well.

Lee Federal #4: Located 2100' FSL and 660' FWL in Section 25, Township 20 South, Range 28 East, Eddy County, New Mexico. Spud 5/16/84. Set 13 3/8" casing to 405'. Cemented with 500 sacks (circulated). TD 2198'. Lost 619' of fish in hole. Set plug from 455' to 355' with 75 sacks Class "C". 15 sacks cement at surface. P&A (Diagram enclosed).

Lee Federal #4-Y: Located 2100' FSL and 330' FWL in Section 25, Township 20 South, Range 28 East, Eddy County, New Mexico. Spud 6/2/84. Set 13 3/8" 54.5# casing to 405'. Cemented with 500 sacks (circulated). Set 8 5/8" 24# casing to 2703'. Cemented with 1837 sacks (circulated). Set 5 1/2" 15.5# casing to 6698'. Cemented with 770 sacks. Second stage. Perforate Bone Spring at 5452'-5470'. Acidize with 2000 gal 15% HCL and frac with 33,000# 20/40 sand, 20,000 gal gel with 25% CO₂. Perforate 5586'-5608'. Acidize with 2,000 gal 15% HCL. Frac with 33,000# 20/40 sand with 20,000 gal gel and 2% CO₂. Producing oil well.

Lee Federal #5: Located 860' FSL and 660' FWL in Section 25, Township 20 South, Range 28 East, Eddy County, New Mexico. Spud 7/28/84. Set 13 3/8" 54.5# casing to 417'. Cemented with 500 sacks (circulated). Parted 8 5/8" casing. Plug well as follows: First plug set from 2777'-2602' with 150 sacks Class "C"; Second plug set from 2077'-1897' with 50 sacks Class "C"; Third plug set from 466'-298' with 50 sacks Class "C"; Fourth plug set from 80' to surface with 30 sacks Class "C". Installed dry hole marker. P&A (Diagram enclosed).

Lee Federal #5-Y: Located 990' FSL and 712' FWL in Section 25, Township 20 South, Range 28 East, Eddy County, New Mexico, Spud 9/15/85. Set 13 7/8" 54.5# casing to 427'. Cemented with 400 sacks (circulated). Set 8 5/8" 24# and 28# casing to 2545' with 2075 sacks (circulated). Set 5 1/2" 15.5# casing to 6407'. Cemented with 1255 sacks (second stage). Perforate Bone Spring from 5572'-5592'. Acidize with 2,000 gal 15% HCL. Frac with 33,000# 20/40 sand with 455 bbls 2% KCL and 35# gel. Set CIBP at 5560' with 35' cement on top. Perforate 5372'-5448'. Random. Acidize with 2,000 gal 7 1/2% NEFE. Frac with 45,000 gal 70 quality Nit. and 57,000# 20/40 sand. Producing.

Doris Federal #1: Located 1980' FSL and 1980' FEL in Section 26, Township 20 South, Range 28 East, Eddy County, New Mexico. Spud 7/28/83. Set 13 3/8" casing to 621'. Cemented with 640 sacks (circulated). Set 9 5/8" casing to 2900'. Cemented with 1125 sacks (circulated). Set 5 1/2" casing to 11,619'. Cemented with 975 sacks Class "H". Set DV tool at 5514'. Perforate 11,163'-11,330'. Acidize with 105 gal 7 1/2% NEFE. Set CIBP at 11,400' with 35' cement on top. Perforated 10,952'-11,030'. Acidize with 3,000 gal Morflow. Set CIBP at 10,900' with 35 sacks cement. Set CIBP at 9050' with 35 sacks cement. Perforated from 4521'-4546'. Acidize with 1500 gal 7 1/2% NEFE. Frac with 54,000# 12/20 sand. Packer set at 4433'. Evaluating.

Doris Federal #3: Located 1980' FSL and 660' FEL in Section 26, Township 20 South, Range 28 East, Eddy County, New Mexico. Spud 7/11/84. Set 13 3/8" casing to 428'. Cemented with 475 sacks (circulated). Set 8 5/8" casing to 2719'. Cemented with 1780 sacks (circulated). Set 5 1/2" casing to 6308'. Cemented with 790 sacks (circulated). Perforated 5576'-5600'. Acidize with 2,000 gal 15% HCL. Set CIBP at 5528' with 10' cement on top. Perforated 5450'-5472'. Acidize with 2,000 gal 7 1/2% NEFE. Frac with 36,000# 20/40 sand and 19,500# 10/20 sand. Put on pump. Producing.

Conally #1: Located in Section 26, Township 20 South, Range 28 East, Eddy County, New Mexico. Spud in 1958. Set 8 5/8" 17# casing to 500'. Cemented with 65 sacks. TD 883'. Set 15 sack plug at 803', 10 sack plug at 80' and 5 sack plug at surface. P&A (Diagram enclosed).

Levers #1: Located in Unit C, NW/4NE/4 of Section 35, Township 20 South, Range 28 East, Eddy County, New Mexico. Spud 3/19/35. Set 10" casing to 105'. TD 825'. Set 15 sack plug at 125' and 15 sack plug at surface. P&A. Wills Production, Operator.

VII/VIII. INJECTION ZONE/PROCEDURE

<u>Zones to be injected:</u>	Upper Cherry Canyon Sandstones
	Delaware Mountain Group
	3030'-82' 3208'-24'
	3100'-34' 3254'-74'
	3145'-72'

This interval does not produce oil in the vicinity and is generally not productive in the Delaware Basin. The lowest injection zone is approximately 1800 feet above the uppermost pay objective in the Scanlon Delaware field. The uppermost injection zone is 400' below the top of the Delaware. Mudlog shows were not encountered in any of the Lee Federal or Doris Federal wells in this interval.

TYPE INJECTION SYSTEM:	Closed
PROPOSED DAILY INJECTION RATE:	200 barrels initial (.5BPM)
MAXIMUM DAILY INJECTION RATE:	450 barrels (1BPM)
AVERAGE INJECTION PRESSURE:	400 psi
MAXIMUM INJECTION PRESSURE:	600 psi

Water Compatibility: The water to be injected will initially come from the Lee Federal and Doris Federal wells producing from the Delaware from approximately 5100 to 5500 feet. Currently, the field produces approximately 30 barrels oil and 30 barrels water. Workovers in the Delaware are slated for October, 1992 and should produce more oil and water.

IX. Stimulation Program: None

X. See attached log showing perfs.

XI. Water Analysis.

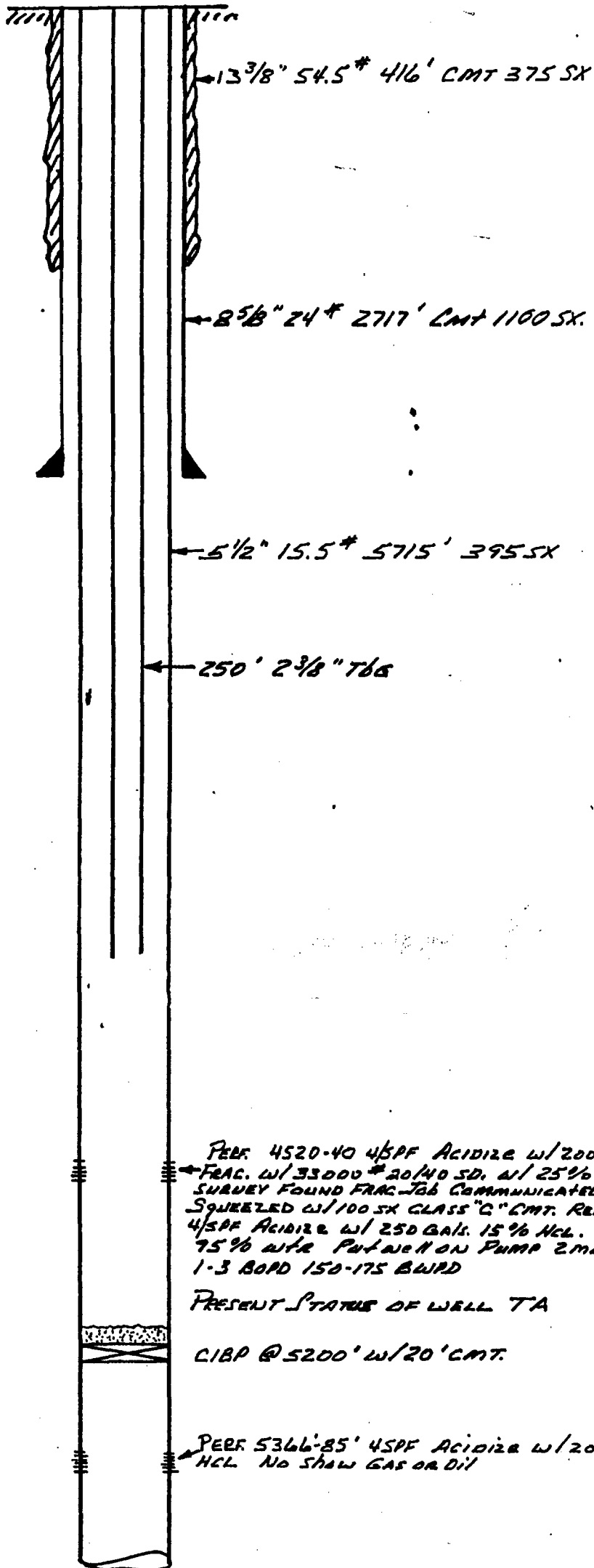
XII. Strata Production Company has examined all available geologic and engineering data in this area and finds no evidence of open faults or other hydrologic connections between the disposal zone and any potable aquifers.

Insert

Color Page/Photo

Here

DORIS FEDERAL #2
 1780' FSL & 1980' FEL
 Section 26-20S-28E
 Eddy County, New Mexico



INJECTION WELL DATA SHEET

OPERATION		LEASE		
Strata Production Co.		Doris Federal		
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
2	1780' FSL, 1980' FEL	26	T20S	R28E

DEPTH

Schematic

Tabular Data

0

425'

200

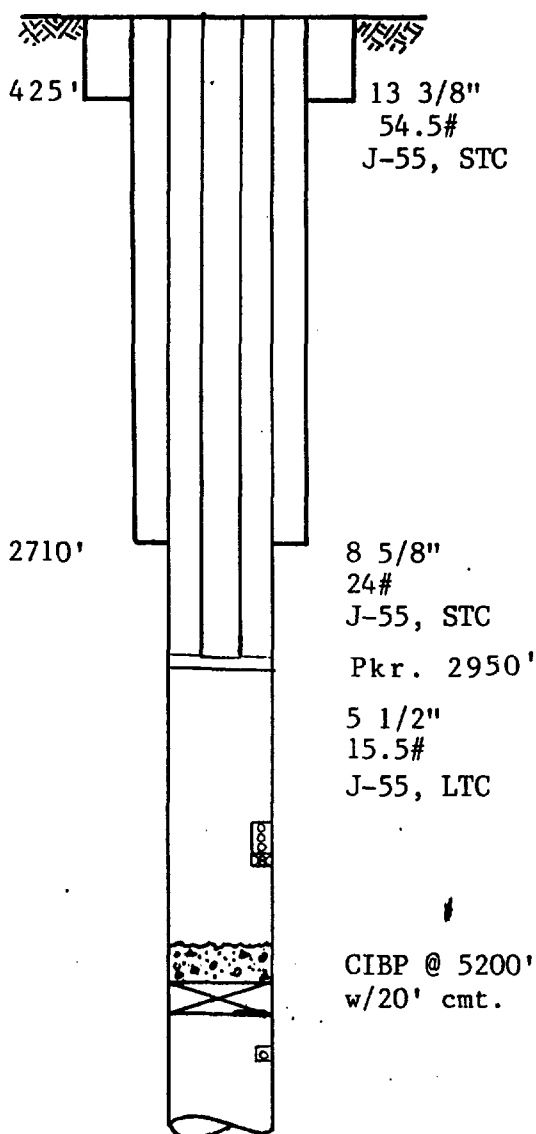
2000

1000

1000

1000

1000



TD - 5715'

Surface Casing

Size 13 3/8" at 425' Cemented with 375 sx.TOC Surface feet determined by CirculatedHole size 17 1/2"

Intermediate Casing

Size 8 5/8" at 2710' Cemented with 1100 sx.TOC Surface feet determined by CirculatedHole size 12 1/4"

Long string

Size 5 1/2" at 5715' Cemented with 395 sx.TOC Surface feet determined by CirculatedHole size 7 7/8"Total depth 5715'

Injection interval

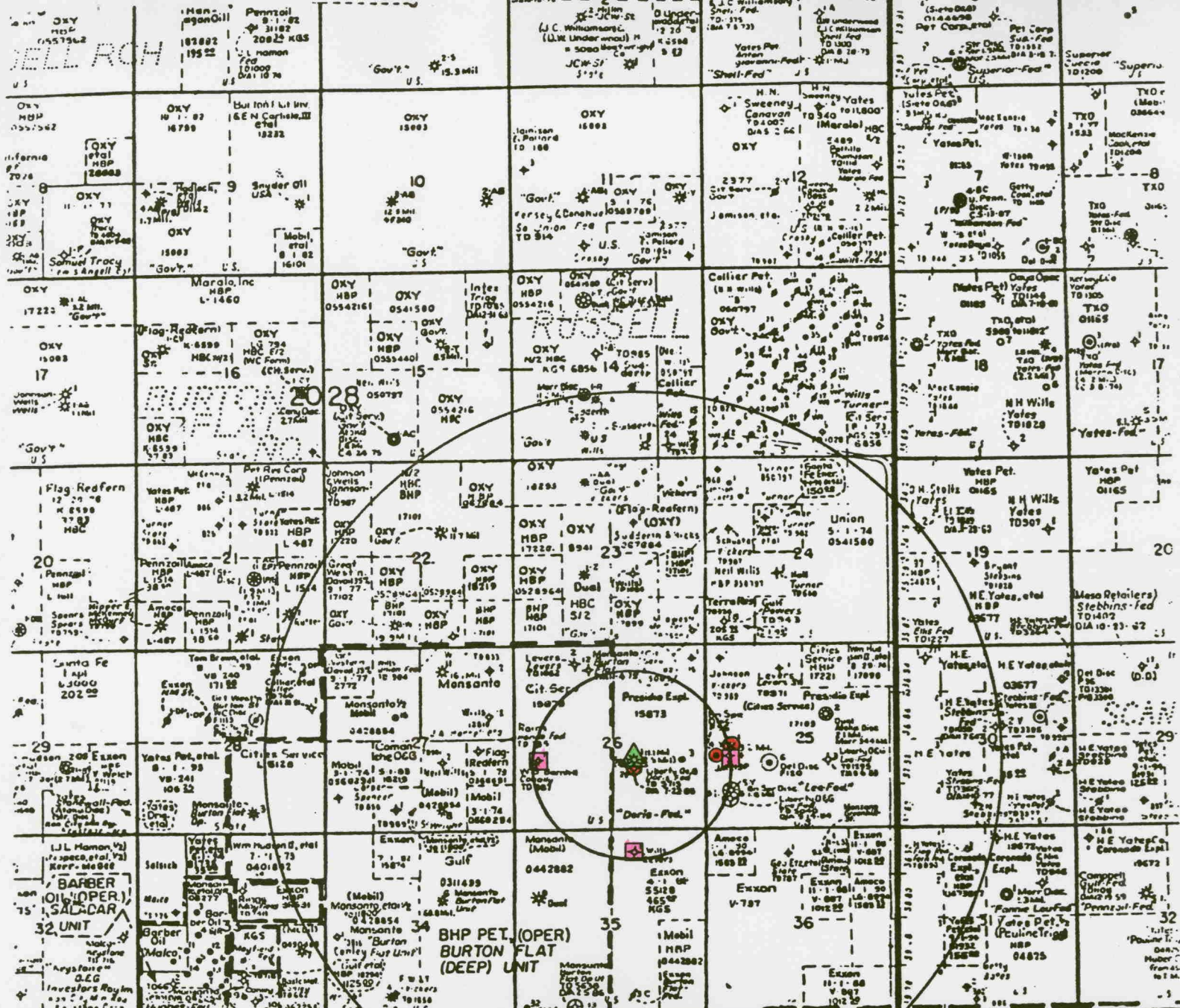
4520 feet to 4530 feet
(perforated or open-hole, indicate which)Originally perforated (4 spf) from 4520' - 4540'
Squeezed w/100 SxS cmt. & reperforated from
4520' - 4530'CIBP @ 5200'
w/20' cmt.

Tubing size 2 3/8" lined with Plastic set in a
(material)
Model - R (Plastic Coated) packer at 2950 feet
(brand and model)

(or describe any other casing-tubing seal).

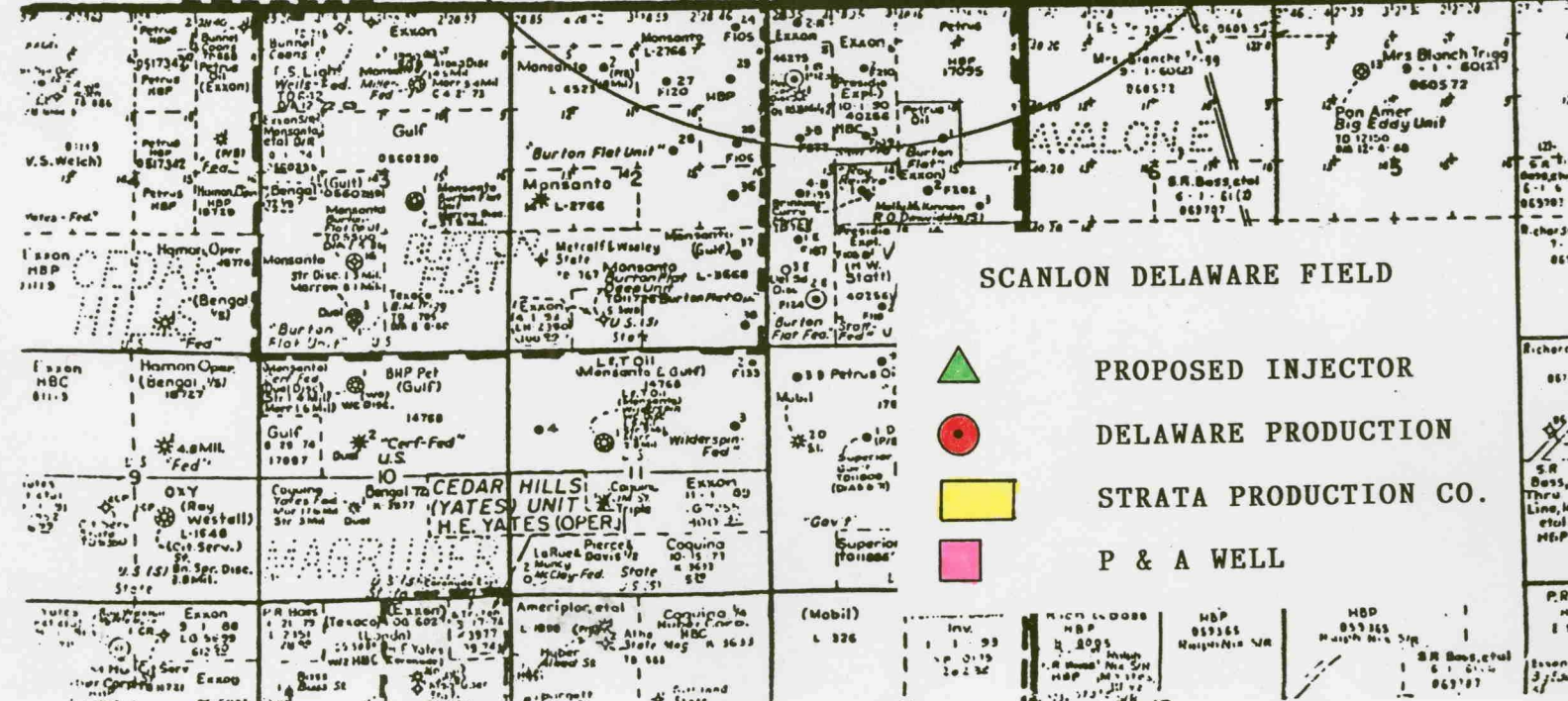
Other Data

- Name of the injection formation Delaware (Upper Cherry Canyon)
- Name of field or Pool (if applicable) Scanlon Delaware
- Is this a new well drilled for injection? ☐ Yes ☒ No
If no, for what purpose was the well originally drilled? Oil and gas
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (bags of cement or bridge plug(s) used) Yes. 5366'-5388'.
CIBP at 5200' with 35' cement on top. Will squeeze perfs at 4520'-4540'.
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. The lowest injection zone is approximately 1800 feet above
the uppermost pay objective in the Scanlon Delaware field. The
uppermost injection zone is 400' below the top of the Delaware.

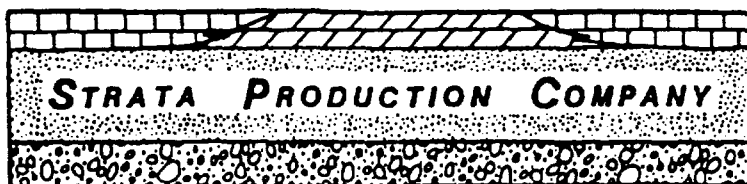


SCANLON DELAWARE FIELD

PROPOSED INJECTOR
DELAWARE PRODUCTION
STRATA PRODUCTION CO.
P & A WELL



POST OFFICE DRAWER 1030
ROSWELL, NM 88202-1030

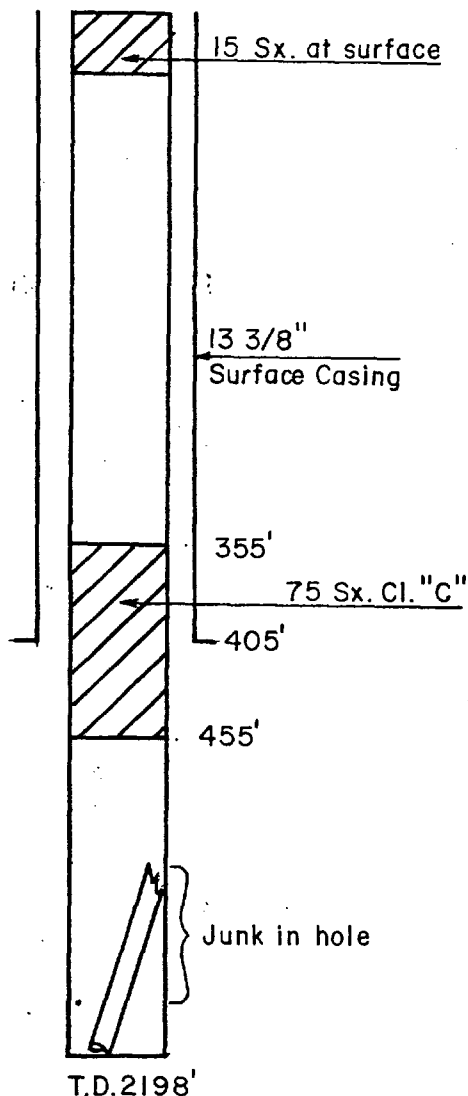


200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700
ROSWELL, NEW MEXICO 88201

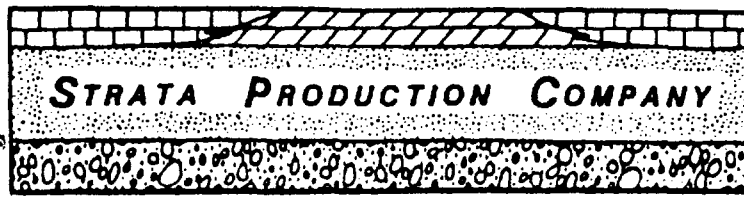
TELEPHONE (505) 622-1127
FACSIMILE (505) 623-3533

LEE FEDERAL #4

Located 2100' FSL and 660' FWL in Section 25, Township 20 South, Range 28 East, Eddy County, New Mexico. Spud 5/16/84. Set 13 3/8" casing to 405'. Cemented with 500 sacks (circulated). TD 2198'. Lost 619' of fish in hole. Set plug from 455' to 355' with 75 sacks Class "C". 15 sacks at surface. P&A.

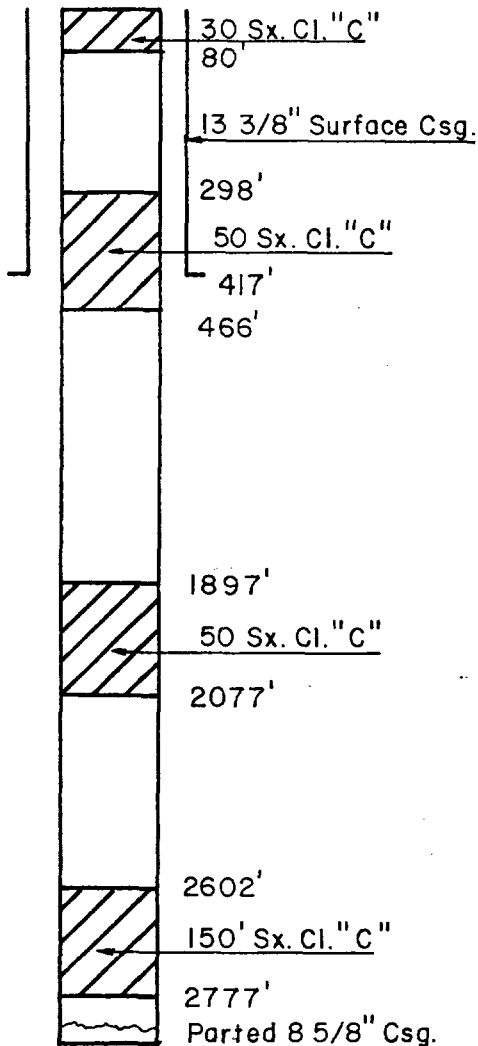


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ROSWELL, NM 88202-1030



TELEPHONE (505) 622-1127
FACSIMILE (505) 623-3533

200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700
ROSWELL, NEW MEXICO 88201



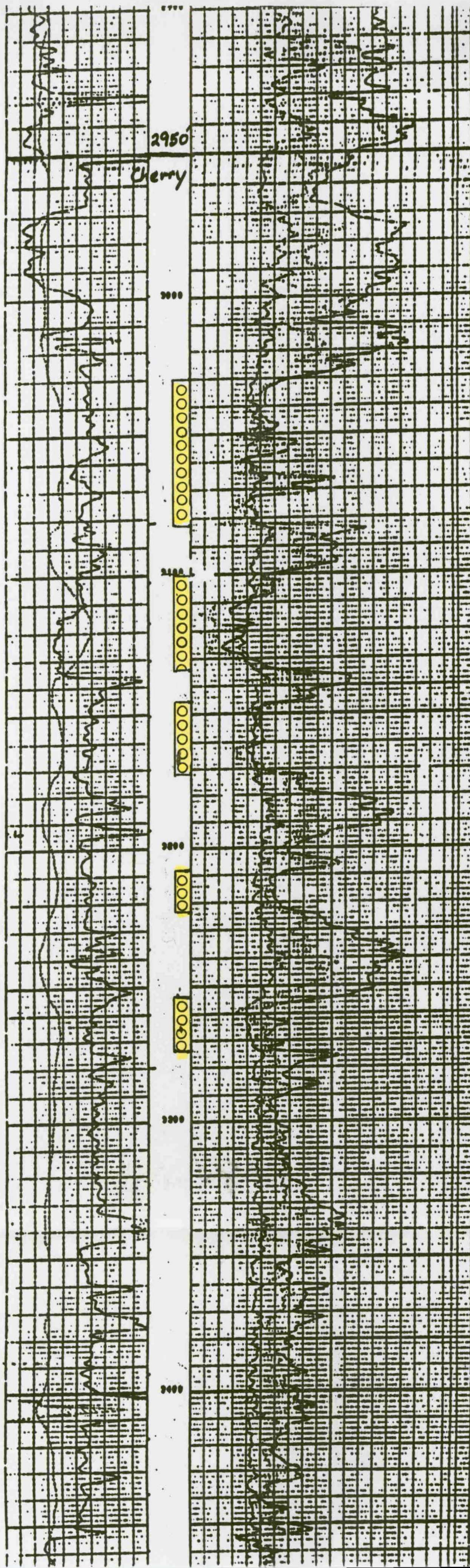
T.D. 2831

LEE FEDERAL #5

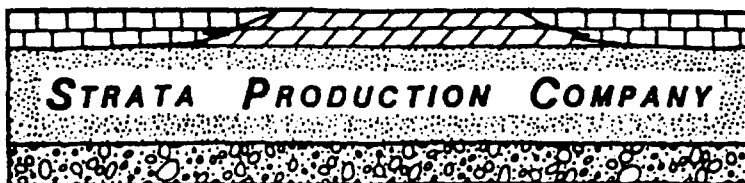
Located 860' FSL and 660' FWL in Section 25, Township 20 South, Range 28 East, Eddy County, New Mexico. Spud 7/28/84. Set 13 3/8" 54.5# casing to 417'. Cemented with 500 sacks (circulated). Parted 8 5/8" casing. Plug well as follows: First plug set from 2777'-2602' with 150 sacks Class "C"; Second plug set from 2077'-1897' with 50 sacks Class "C"; Third plug set from 466'-298' with 50 sacks Class "C"; Fourth plug set from 80' to surface with 30 sacks Class "C". Installed dry hole marker. P&A.

Doris Federal #2
1780' FSL & 1980' FEL
Section 26-20S-28E
Eddy County, New Mexico

PROPOSED ZONES OF INJECTION

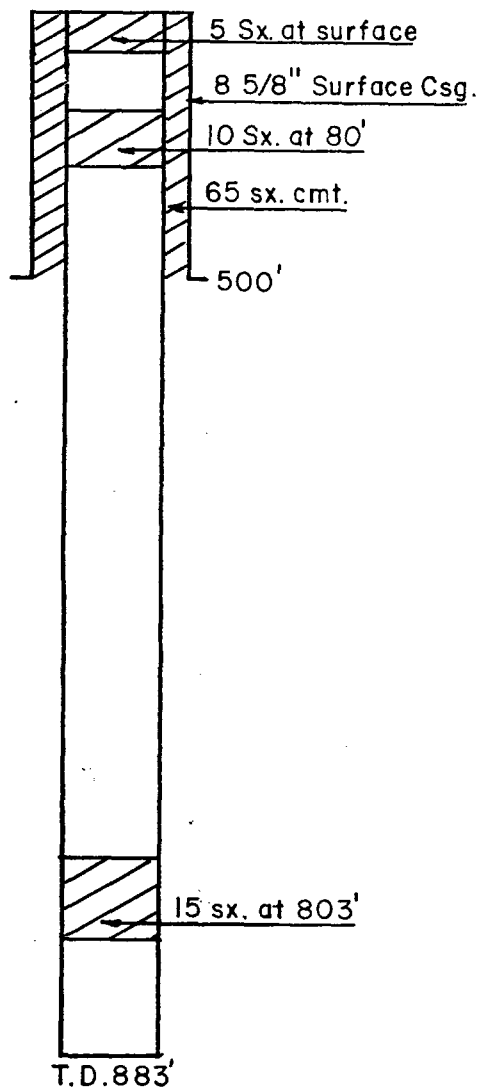


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ROSWELL, NM 88202-1030



TELEPHONE (505) 622-1127
FACSIMILE (505) 623-3533

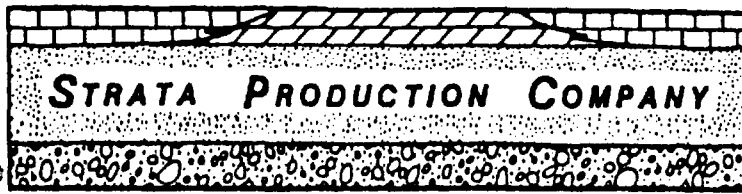
200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700
ROSWELL, NEW MEXICO 88201



CONALLY #1

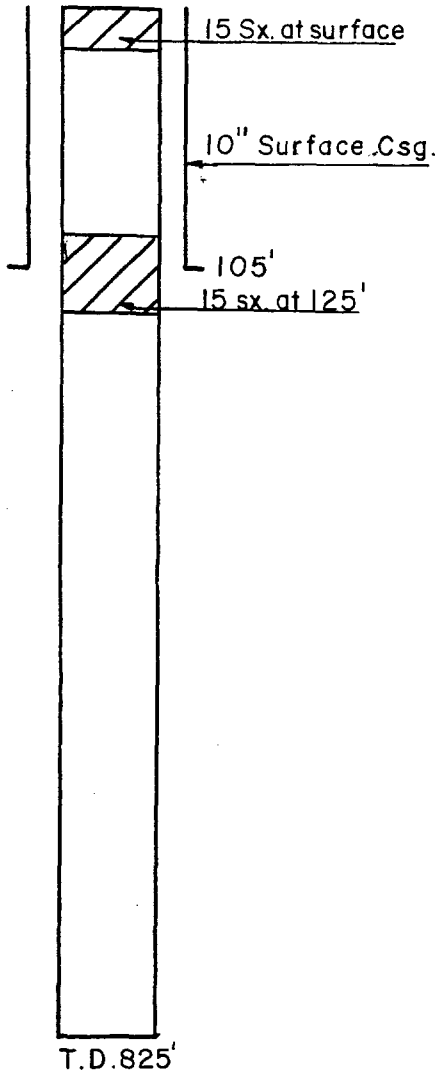
Located in Section 26, Township 20 South, Range 28 East, Eddy County, New Mexico. Spud in 1958. Set 8 5/8" 17# casing to 500'. Cemented with 65 sacks. TD 883'. Set 15 sack plug at 803', 10 sack plug at 80', 5 sack plug at surface. P&A.

POST OFFICE DRAWER 1030
ROSWELL, NM 88202-1030



TELEPHONE (505) 622-1127
FACSIMILE (505) 623-3533

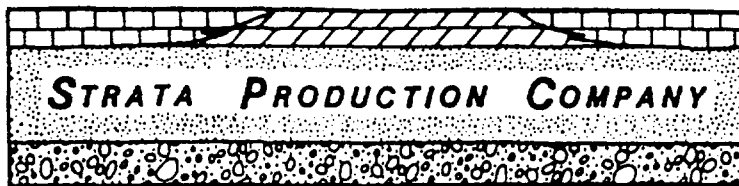
200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700
ROSWELL, NEW MEXICO 88201



LEVERS #1

Located in Unit C, NW/4NE/4 of
Section 35, Township 20 South, Range
28 East, Eddy County, New Mexico.
Spud 3/19/35. Set 10" casing to
105'. TD 825'. Set 15 sack plug at
125' and 15 sack plug at surface.
P&A. Wills Production, Operator.

POST OFFICE DRAWER 1030
ROSWELL, NM 88202-1030



TELEPHONE (505) 622-1127
FACSIMILE (505) 623-3533

200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700
ROSWELL, NEW MEXICO 88201

September 22, 1992

Carlsbad Current-Argus
620 S. Main
Carlsbad, New Mexico 88220

Re: Legal Publications

Gentlemen:

Enclosed herewith please find a Legal Notice to be published in your newspaper at the earliest possible date.

Please publish the notice one (1) time only and forward an Affidavit of Publication along with your invoice to:

Frank S. Morgan
Strata Production Company
P. O. Box 1030
Roswell, New Mexico 88202-1030

Should you have any questions regarding this matter, please contact this office. Thank you for your cooperation.

Sincerely,

STRATA PRODUCTION COMPANY

A handwritten signature in cursive script, appearing to read "Frank S. Morgan".

Frank S. Morgan
Vice President

FSM:cjg

Enclosure

PUBLIC NOTICE

APPLICATION FOR WATER DISPOSAL

Strata Production Company, P. O. Box 1030, Roswell, New Mexico 88202-1030, (Contact: Frank S. Morgan, 505-622-1127), has filed Application with the Oil Conservation Division, Energy, Minerals and Natural Resources Department, State of New Mexico, for Administrative Approval and authority to inject salt water into the Doris Federal #2 well located 1780' FSL and 1980' FEL of Section 26, Township 20 South, Range 28 East, NMPM, Eddy County, New Mexico.

The purpose of the water injection well is to dispose of salt water produced from the Scanlon Delaware field as currently designated by the Oil Conservation Division and as may be extended by additional drilling.


Water to be disposed will be injected into the Upper Cherry Canyon formation of the Delaware Mountain group at an interval between 3030 feet to 3274 feet beneath the surface.

The minimum injection rate is expected to be approximately 200 barrels of water per day. The maximum injection rate is expected to be approximately 450 barrels of water per day.

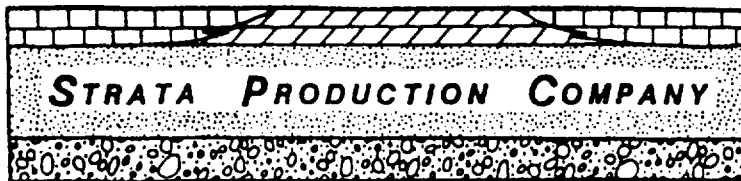
Minimum injection pressure is expected to be approximately 400 psi. The maximum injection pressure is expected to be approximately 600 psi.

Any interested party may file an objection to the Application or may request a public hearing. Any objection or request for hearing must be filed with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87504-2088 within 15 days from the date of publication.

STRATA PRODUCTION COMPANY

By: 
Frank S. Morgan
P. O. Box 1030
Roswell, New Mexico 88202-1030
Telephone 505-622-1127

POST OFFICE DRAWER 1030
ROSWELL, NM 88202-1030



TELEPHONE (505) 622-1127
FACSIMILE (505) 623-3533

200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700
ROSWELL, NEW MEXICO 88201

September 22, 1992

CERTIFIED/RETURN RECEIPT REQUESTED

Cities Service Oil & Gas Corp.
P. O. Box 3908 25 Sta TC
Tulsa, OK 74102

Re: Salt Water Disposal Well
Scanlon Delaware Field
Doris Federal #2
Section 26-20S-28E
Eddy County, New Mexico

Gentlemen:

As an operator of an oil and gas lease within one-half mile of the Doris Federal #2 well located 1780' FSL and 1980' FEL of Section 26, Township 20 South, Range 28 East, Eddy County, New Mexico, please note the following.

Strata Production Company is filing Application to the New Mexico Oil Conservation Division for authority to convert the Doris Federal #2 to a water disposal well for the re-injection of water produced from the Scanlon Delaware field into porous zones in the Upper Cherry Canyon formation.

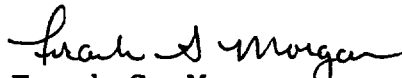
Consequently, and pursuant to the rules and regulations of the NMOCD, enclosed please find a copy of the NMOCD form C-108 which is the Application for Authorization to Inject.

If you have an objection to the Application or feel that a public hearing is necessary, please contact the NMOCD, P. O. Box 2088, Santa Fe, New Mexico 87504-2088. You may also contact Mr. Frank S. Morgan, Strata Production Company, P. O. Box 1030, Roswell, New Mexico 88202-1030, telephone 505-622-1127.

If you do not have an objection to the above mentioned Application, please sign one copy of this letter in the space provided and return to the undersigned.

Sincerely,

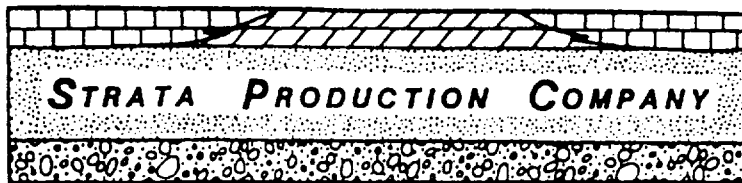
STRATA PRODUCTION COMPANY


Frank S. Morgan
Vice President

We do not object to the Application.
CITIES SERVICE OIL & GAS CORP.

By: _____
Dated: _____

POST OFFICE DRAWER 1030
ROSWELL, NM 88202-1030



TELEPHONE (505) 622-1127
FACSIMILE (505) 623-3533

200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700
ROSWELL, NEW MEXICO 88201

September 22, 1992

CERTIFIED/RETURN RECEIPT REQUESTED

Exxon Company, USA
P. O. Box 1600
Midland, TX 79702-1600

Re: Salt Water Disposal Well
Scanlon Delaware Field
Doris Federal #2
Section 26-20S-28E
Eddy County, New Mexico

Gentlemen:

As an operator of an oil and gas lease within one-half mile of the Doris Federal #2 well located 1780' FSL and 1980' FEL of Section 26, Township 20 South, Range 28 East, Eddy County, New Mexico, please note the following.

Strata Production Company is filing Application to the New Mexico Oil Conservation Division for authority to convert the Doris Federal #2 to a water disposal well for the re-injection of water produced from the Scanlon Delaware field into porous zones in the Upper Cherry Canyon formation.

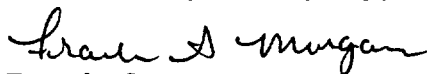
Consequently, and pursuant to the rules and regulations of the NMOCD, enclosed please find a copy of the NMOCD form C-108 which is the Application for Authorization to Inject.

If you have an objection to the Application or feel that a public hearing is necessary, please contact the NMOCD, P. O. Box 2088, Santa Fe, New Mexico 87504-2088. You may also contact Mr. Frank S. Morgan, Strata Production Company, P. O. Box 1030, Roswell, New Mexico 88202-1030, telephone 505-622-1127.

If you do not have an objection to the above mentioned Application, please sign one copy of this letter in the space provided and return to the undersigned.

Sincerely,

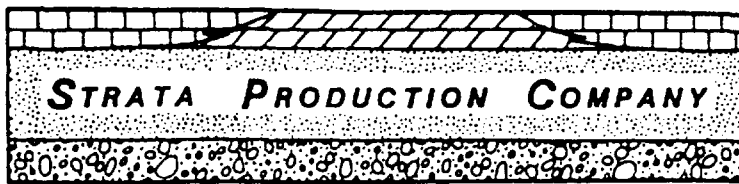
STRATA PRODUCTION COMPANY


Frank S. Morgan
Vice President

We do not object to the Application.
EXXON COMPANY, USA

By: _____
Dated: _____

POST OFFICE DRAWER 1030
ROSWELL, NM 88202-1030



TELEPHONE (505) 622-1127
FACSIMILE (505) 623-3533

200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700
ROSWELL, NEW MEXICO 88201

September 22, 1992

CERTIFIED/RETURN RECEIPT REQUESTED

Monsanto Company
P. O. Box 711
Alvin, TX 77511

Re: Salt Water Disposal Well
Scanlon Delaware Field
Doris Federal #2
Section 26-20S-28E
Eddy County, New Mexico

Gentlemen:

As an operator of an oil and gas lease within one-half mile of the Doris Federal #2 well located 1780' FSL and 1980' FEL of Section 26, Township 20 South, Range 28 East, Eddy County, New Mexico, please note the following.

Strata Production Company is filing Application to the New Mexico Oil Conservation Division for authority to convert the Doris Federal #2 to a water disposal well for the re-injection of water produced from the Scanlon Delaware field into porous zones in the Upper Cherry Canyon formation.

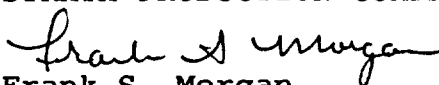
Consequently, and pursuant to the rules and regulations of the NMOCD, enclosed please find a copy of the NMOCD form C-108 which is the Application for Authorization to Inject.

If you have an objection to the Application or feel that a public hearing is necessary, please contact the NMOCD, P. O. Box 2088, Santa Fe, New Mexico 87504-2088. You may also contact Mr. Frank S. Morgan, Strata Production Company, P. O. Box 1030, Roswell, New Mexico 88202-1030, telephone 505-622-1127.

If you do not have an objection to the above mentioned Application, please sign one copy of this letter in the space provided and return to the undersigned.

Sincerely,

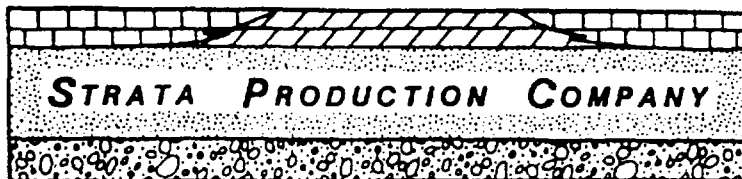
STRATA PRODUCTION COMPANY


Frank S. Morgan
Vice President

We do not object to the Application.
MONSANTO COMPANY

By: _____
Dated: _____

POST OFFICE DRAWER 1030
ROSWELL, NM 88202-1030



200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700
ROSWELL, NEW MEXICO 88201

TELEPHONE (505) 622-1127
FACSIMILE (505) 623-3533

September 22, 1992

Jimmy Spears
P. O. Box 1017
Carlsbad, New Mexico 88220

CERTIFIED/RETURN
RECEIPT REQUESTED

Re: Salt Water Disposal Well
Scanlon Delaware Field
Doris Federal #2
Section 26-20S-28E
Eddy County, New Mexico

Dear Mr. Spears:

As a surface lease owner of an oil and gas lease within one-half mile of the Doris Federal #2 well located 1780' FSL and 1980' FEL of Section 26, Township 20 South, Range 28 East, Eddy County, New Mexico, please note the following.

Strata Production Company is filing Application to the New Mexico Oil Conservation Division for authority to convert the Doris Federal #2 to a water disposal well for the re-injection of water produced from the Scanlon Delaware field into porous zones in the Upper Cherry Canyon formation.

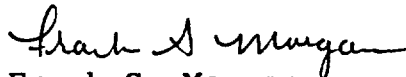
Consequently, and pursuant to the rules and regulations of the NMOCD, enclosed please find a copy of the NMOCD form C-108 which is the Application for Authorizaton to Inject.

If you have an objection to the Application or feel that a public hearing is necessary, please contact the NMOCD, P. O. Box 2088, Santa Fe, New Mexico 87504-2088. You may also contact Mr. Frank S. Morgan, Strata Production Company, P. O.Box 1030, Roswell, New Mexico 88202-1030, telephone 505-622-1127.

If you do not have an objection to the above mentioned Application, please sign one copy of this letter in the space provided and return to the undersigned.

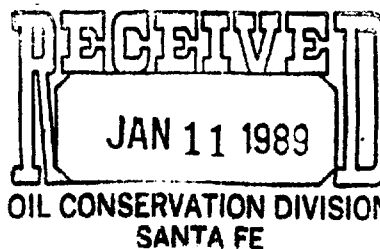
Sincerely,

STRATA PRODUCTION COMPANY


Frank S. Morgan
Vice President

We do not object to the Application.

Jimmy Spears
Dated: _____



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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OIL	
GAS	
OPERATOR	
PROMOTION OFFICE	

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

RECEIVED

Form C-104
Revised 10-01-78
Format 06-01-83
Page 1

DEC 21 '88

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS
ARTESIA, OFFICE

I. Operator
Presidio Exploration, Inc.

Address
3131 Turtle Creek Blvd, Suite 400 Dallas, TX 75219-5415

Reason(s) for filing (Check proper box)

<input type="checkbox"/> New Well	Change in Transporter of:	Other (Please explain)
<input type="checkbox"/> Recompletion	<input type="checkbox"/> Oil	
<input checked="" type="checkbox"/> Change in Ownership effective 11-1-88	<input type="checkbox"/> Casinghead Gas	
	<input type="checkbox"/> Dry Gas	
	<input type="checkbox"/> Condensate	

If change of ownership give name and address of previous owner: Liberty Oil & Gas Corporation P. O. Drawer 810 New Roads,, LA 70760

II. DESCRIPTION OF WELL AND LEASE

Lease Name Doris Federal	Well No. 2	Pool Name, geologic Formation Scanlon Delaware	Kind of Lease State, Federal or Fee Federal	Lease No. NM-15873
Location Unit Letter <u>J</u> : <u>1780</u> Feet From The <u>South</u> Line and <u>1980</u> Feet From The <u>East</u> Line of Section <u>26</u> Township <u>20S</u> Range <u>28E</u> , NMPM, <u>Eddy</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/> TA - Last prod 1/85	Address (Give address to which approved copy of this form is to be sent)					
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)					
If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	Is gas actually connected?	When

If this production is commingled with that from any other lease or pool, give commingling order number:

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.

Kenneth R Burr
Kenneth Burr (Signature)
Production Technician (Title)
December 16, 1988 (Date)

OIL CONSERVATION DIVISION
JAN 9 1989
APPROVED _____, 19____
BY Mike Williams
TITLE SUPERVISOR, DISTRICT

This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for allowable on new and recompleted wells.
Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.
Separate Forms C-104 must be filed for each pool in multiply completed wells.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

5F

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other <u>RECOMPLETION</u>		5. LEASE DESIGNATION AND SERIAL NO. <u>NM-15873</u>	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other <u>FEB 27 1986</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR <u>Liberty Oil & Gas Corporation</u>		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR <u>P.O. Drawer 810, New Roads, Louisiana 70760</u>		8. FARM OR LEASE NAME <u>Doris Federal</u>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface <u>1780' FSL & 1980' FEL</u> At top prod. interval reported below At total depth		9. WELL NO. <u>2</u>	
10. FIELD AND POOL, OR WILDCAT <u>Wildcat-Bone Spring</u>		11. SEC. T. R. M., OR BLOCK AND SURVEY OR AREA <u>Sec. 26, T20S, R28E</u>	
12. COUNTY OR PARISH <u>Eddy</u>		13. STATE <u>N.M.</u>	
14. PERMIT NO.		DATE ISSUED <u>FEB 24 1986</u>	
15. DATE SPUDDED <u>6/27/84</u>	16. DATE T.D. REACHED <u>7/9/84</u>	17. DATE COMPL. (Ready to prod.) <u>-----</u>	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* <u>3262.2' GR</u>
19. ELEV. CASINGHEAD <u>3261'</u>	20. TOTAL DEPTH, MD & TVD <u>5715'</u>		
21. PLUG, BACK T.D., MD & TVD <u>5200'</u>		22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY <u>Rotary Tools</u>
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*			25. WAS DIRECTIONAL SURVEY MADE <u>Yes</u>
26. TYPE ELECTRIC AND OTHER LOGS RUN <u>EPT, CNL-LDT, DLL-MSFL, NGT</u>			27. WAS WELL CORED <u>No</u>
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
13 3/8"	54.5#	416'	17 1/2"
8 5/8"	24.0#	2717'	12 1/4"
5 1/2"	15.5#	5715'	7 7/8"
29. LINER RECORD		30. TUBING RECORD	
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
5366-5385' (4 SPF=80 holes)		DEPTH INTERVAL (MD)	
C.I.B.P. @ 5200'		AMOUNT AND KIND OF MATERIAL USED	
4520-4530' (4 SPF=44 holes)		5366-5385' 2000 gal 15% HCL acid	
		4520-4530' 2000 gal 15% HCL acid + 33,000#	
		20/40 sand + 25% CO ₂	
33. PRODUCTION			
DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)		WELL STATUS (Producing or shut-in)
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)			
35. LIST OF ATTACHMENTS			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED <u>Lucy W. Franklin</u>		TITLE <u>Agent</u> DATE <u>2/20/86</u>	

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):				
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	
38. GEOLOGIC MARKERS				
NAME				TOP
				MEAS. DEPTH
				TRUE VERT. DEPTH
Yates				905'
El Capitan				1410'
Delaware				2928'
Bone Spring				5000'

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-104
Revised 10-1-78

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

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U.S.D.S.	
LAND OFFICE	
TRANSPORTER	OIL GAS
OPERATION	
PRODUCTION OFFICE	

I. Operator
Liberty Oil & Gas Corporation

Address
1776 Woodstead Court, Suite 200, The Woodlands, Texas 77380

Reason(s) for filing (Check proper box)
 New Well ☒ Change in Transporter of:
 Recompletion ☐ Oil ☐ Dry Gas ☐
 Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐

Other (Please explain)
 Request 500 bbl test allowable
 Perfs 4520-30' (4 SPF=44 holes) Delaware Formation

If change of ownership give name and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name <u>Doris Federal</u>	Well No. <u>2</u>	Pool Name, including Formation <u>Wildcat-Delaware</u>	Kind of Lease State, Federal or Fee <u>Federal</u>	Lease No. <u>NM-1587</u>
Location Unit Letter <u>J</u> ; <u>1780'</u> Feet From The <u>South</u> Line and <u>1980'</u> Feet From The <u>East</u>				
Line of Section <u>26</u> To <u>ship</u> <u>20 South</u> Range <u>28 East</u> , <u>NMPM</u> , <u>Eddy</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> <u>The Permian Corporation</u>	Address (Give address to which approved copy of this form is to be sent) <u>P.O. Box 1183, Houston, Texas 77001</u>
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When
	<u>J 26 20S 28E</u> <u>No</u>

If this production is commingled with that from any other lease or pool, give commingling order number: _____

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res't.	Diff. Res't.
Date Spudded	Date Compl. Ready to Prod.		Total Depth		P.B.T.D.			
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay		Tubing Depth			
Perforations					Depth Casing Shoe			
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (shut-in)	Casing Pressure (shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Larry W. Franklin
(Signature)

Agent

(Title)

12/07/84

(Date)

OIL CONSERVATION DIVISION

DEC 10 1984

APPROVED _____, 19 _____

BY Larry A. Clements

SUPERVISOR, DISTRICT 4

TITLE _____

This form is to be filed in compliance with RULE 111.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviated hole taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multi-ported wells.

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

APR 10 1992

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Operator Strata Production Company /	Well API No. 3001152483300S1
Address P.O. Box 1030 Roswell, NM 88202	
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)	
New Well <input type="checkbox"/>	Change in Transporter of:
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>
Change in Operator <input checked="" type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>
If change of operator give name and address of previous operator Presidio Exploration Inc. 3131 Turtle Creek Blvd. Suite 400, Dallas, TX 75219	

II. DESCRIPTION OF WELL AND LEASE

Lease Name Doris Federal	Well No. 2	Pool Name, Including Formation Wildcat Delaware	Kind of Lease State, Federal or Fee	Lease No. NM-15873
Location Unit Letter J : 1780 Feet From The South Line and 1980 Feet From The East Line Section 26 Township 20S Range 28E NMPM Eddy County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/> TA - Last prod 1/85	Address (Give address to which approved copy of this form is to be sent)	
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)	
If well produces oil or liquids, give location of tanks.	Unit	Sec.
	Twp.	Rge.
	Is gas actually connected?	When ?

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.		
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth		
Perforations						Depth Casing Shoe		

TUBING, CASING AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas- MCF

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature
Regina Finley - Prod. Recrds./Land Manager
Printed Name
4/8/92
Date
Title
505-622-1127
Telephone No.

OIL CONSERVATION DIVISION

Date Approved APR 16 1992

By Mike Williams

Title SUPERVISOR, DISTRICT II

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. NM-15873
2. NAME OF OPERATOR Liberty Oil & Gas Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1776 Woodstead Court, Suite 200, The Woodlands, Tx., 77380		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1780'/S & 1980'/E		8. FARM OR LEASE NAME Doris Federal
14. PERMIT NO.		9. WELL NO. 2
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3262.2' GR		10. FIELD AND POOL, OR WILDCAT Wildcat-Bone Spring
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 26, T20S, R28E
		12. COUNTY OR PARISH Eddy
		13. STATE N.M.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other)

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

7/19/84 Perforated 5366-85' with 4 SPF(80 holes). Acidized with 2000 gallons of 15% HCL acid. Swabbed well with no shows of oil or gas.

Set C.I.B.P. at 5200' and topped B.P. with 20' of cement.

7/21/84 Perforated 4520-40' with 4 SPF(84 holes). Acidized with 2000 gallons of 15% HCL acid. Fraced with 33,000# 20/40 sand with 25% CO₂. Ran tracer survey and found that frac job communicated up and down hole.

8/04/84 Squeezed perfs 4520-40' with 100 sx of Class 'C' cement.

8/07/84 Reperforated from 4520-30' with 4 SPF(44 holes). Acidized with 250 gallons 15% HCL acid.

Swabbing 5% oil and 95% water.

18. I hereby certify that the foregoing is true and correct

SIGNED

Terry V. Franklin

TITLE

Agent

DATE

11/2/84

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Drill	5. LEASE DESIGNATION AND SERIAL NO. NM-15873
2. NAME OF OPERATOR Liberty Oil & Gas Corporation	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1776 Woodstead Court, Suite 200, The Woodlands, Texas 77380	7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1780'/S & 1980'/E	8. FARM OR LEASE NAME Doris Federal
14. PERMIT NO.	9. WELL NO. 2
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3262.2' GR	10. FIELD AND POOL, OR WILDCAT Wildcat-Bone Spring
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 26, T20S, R28E
	12. COUNTY OR PARISH Eddy
	13. STATE N.M.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)			

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)	Casing and Cement		

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

7/09/84 Total Depth 5715'.

7/10/84 Ran 143 joints of 5 1/2", 15.5#, J-55, LT&C casing and set @ 5715'. DV tool set @ 4016'. 1st stage cement with 195 sx Class 'H'-4 followed by 200 sx Self Stress 10/10(Dowell). 2nd stage cement with 200 sx Hi-Early 2 followed by 200 sx Self Stress cement. P.O.B. @ 3:30 A.M. 7/11/84.

18. I hereby certify that the foregoing is true and correct

SIGNED Jerry W. Franklin

TITLE Agent

DATE 7/17/84

(This space for Federal or State office use)

APPROVED BY [Signature]
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

JUL 19 1984

*See Instructions on Reverse Side

NEW MEXICO

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

NM-15873

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Doris Federal

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Wildcat-Bone Spring

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec. 26, T20S, R28E

12. COUNTY OR PARISH 13. STATE

Eddy

N.M.

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐ Drilling

2. NAME OF OPERATOR

Liberty Oil & Gas Corporation

3. ADDRESS OF OPERATOR

1776 Woodstead Court, Suite 200, The Woodlands, Texas 77380

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*

See also space 17 below.)

At surface

1780'/S & 1980'/E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3262.2' GR

18. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other) Casing and Cement

(Other)

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

7/1/84 Lost circulation @ 1470'. Ran a pill of mud and regained circulation @ 1573'.

7/2/84 Intermediate Casing T.D. 2717'. Ran 65 joints 8 5/8", 24#, J-55, ST&C casing and set @ 2710'. Set DV tool @ 1432'. 1st stage cemented with 400 sx Lite-wt 3 followed by 200 sx Hi-Early 2 cement. 2nd stage cemented with 400 sx Lite-wt 3 followed by 100 sx Hi-Early 2 cement. Circulated 5 bbls cement to surface. W.O.C. 15 hours. Pressure tested casing 1000 psi for 30 minutes.

18. I hereby certify that the foregoing is true and correct

SIGNED

Henry W. Franklin

TITLE

Agent

DATE

7/10/84

(This space for Federal or State office use)

APPROVED BY

[Signature]

TITLE

DATE

CONDITIONS OF APPROVAL JUL 19 1984

*See Instructions on Reverse Side

NEW MEXICO

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Drilling</u>		5. LEASE DESIGNATION AND SERIAL NO. <u>NM-15873</u>	
2. NAME OF OPERATOR <u>Liberty Oil & Gas Corporation</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR <u>1776 Woodstead Court, Suite 200, The Woodlands, Texas 77380</u>		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) <u>At surface</u> <u>1780'S & 1980'E</u>		8. FARM OR LEASE NAME <u>Doris Federal</u>	
14. PERMIT NO.		9. WELL NO. <u>2</u>	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <u>3262.2' GR</u>		10. FIELD AND POOL, OR WILDCAT <u>Wildcat-Bone Spring</u>	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>Sec. 26, T20S, R28E</u>	
		12. COUNTY OR PARISH <u>Eddy</u>	
		13. STATE <u>N.M.</u>	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Casing and Cement</u>	<u>XX</u>
(Other)		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

6/27/84 Spud 17 1/2" hole @ 8:00 P.M.

6/28/84 Surface Casing T.D. 425'.

Ran 11 joints of 13 3/8", 54.5#, J-55, ST&C casing and set @ 416'. Rig up Dowell and cemented with 175 sx Lite-wt. 3 followed by 200 sx of Hi-Early 2 cement. Circulated 43 sx of cement to surface. W.O.C. 12 hours. Pressure tested casing 500 psi for 30 minutes.

18. I hereby certify that the foregoing is true and correct.

SIGNED Levy W. Franklin TITLE Agent DATE 7/09/84

(This space for Federal or State office use)

APPROVED BY [Signature] TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

JUL 19 1984

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

IN THE FIELD, COMMISSION
SUBMIT IN TRIPPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985
LEASE DESIGNATION AND SERIAL NO.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Liberty Oil & Gas Corporation	8. FARM OR LEASE NAME Doris Federal
3. ADDRESS OF OPERATOR 1776 Woodstead Court, Suite 200, The Woodlands, Tx., 77380	9. WELL NO. 2
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1780' FSL & 1980' FEL	10. FIELD AND POOL, OR WILDCAT Wildcat-Bone Spring
14. PERMIT NO.	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 26, T20S, R28E
15. ELEVATIONS (Show whether DE, T, etc.) 3262.2' GE	12. COUNTY OR PARISH 13. STATE Eddy N.M.

RECEIVED
MAY 04 1984
OIL CONSERVATION DIVISION
SANTA FE

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting and proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Intermediate Casing String:

Request approval to change from 9 5/8" to 8 5/8", 24.0#, ST&C casing and set at 2700'±. Also change hole size from 12 1/4" to 11".

Also request to run a DV tool and cement basket on the intermediate string at approximately 1420' ±. Will two stage cement sufficient to circulate to surface.

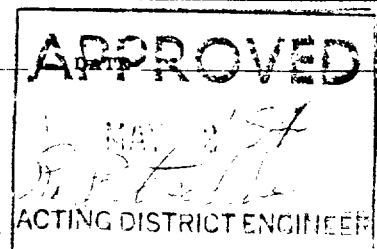


18. I hereby certify that the foregoing is true and correct

SIGNED Terry W. Franklin TITLE Agent DATE 4/30/84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY:



*See Instructions on Reverse Side

NM OIL CONS. COMMISSION
SUBMIT IN TRIPPLICATE
Drawer DD (Other instructions on side)
Artesia, NM 88210
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

59-975-24823
Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER

SINGLE ZONE ☒

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Liberty Oil & Gas Corporation

3. ADDRESS OF OPERATOR

1776 Woodstead Court, Suite 200, The Woodlands, Tx. 77380

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

1780' FSL & 1980' FEL NW/4 SE/4 Unit J

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

7 miles northeast of Carlsbad, N.M.

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)

1780' S

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

200' N

16. NO. OF ACRES IN LEASE

640

19. PROPOSED DEPTH

5700'

17. NO. OF ACRES ASSIGNED TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3262.2' GR

22. APPROX. DATE WORK WILL START*

April 2, 1984

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48.0#	600'	640 sx(Circulate)
12 1/4"	9 5/8"	36.0#	2900'	1125 sx(Circulate)
7 7/8"	5 1/2"	17.0#	T.D.	400 sx

Proposed plans are to drill through the Bone Spring formation and test Bone Spring and intermediate formations for possible commercial production of oil & gas.

Designation of Operator is filed under Doris Federal No. 1 well.

BOP sketch is attached.

RECEIVED
MAR 27 1984

CR 3 510

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Jerry W. Franklin

TITLE

Agent

DATE

3/27/84

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

'Orig. Sgd.' Earl R. Cunningham

District Manager

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

DATE

APR 2 1984

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
SPECIAL STIPULATIONS
ATTACHED

*See Instructions On Reverse Side

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-122
Supersedes C-128
Effective 1-1-85

All distances must be from the outer boundaries of the Section

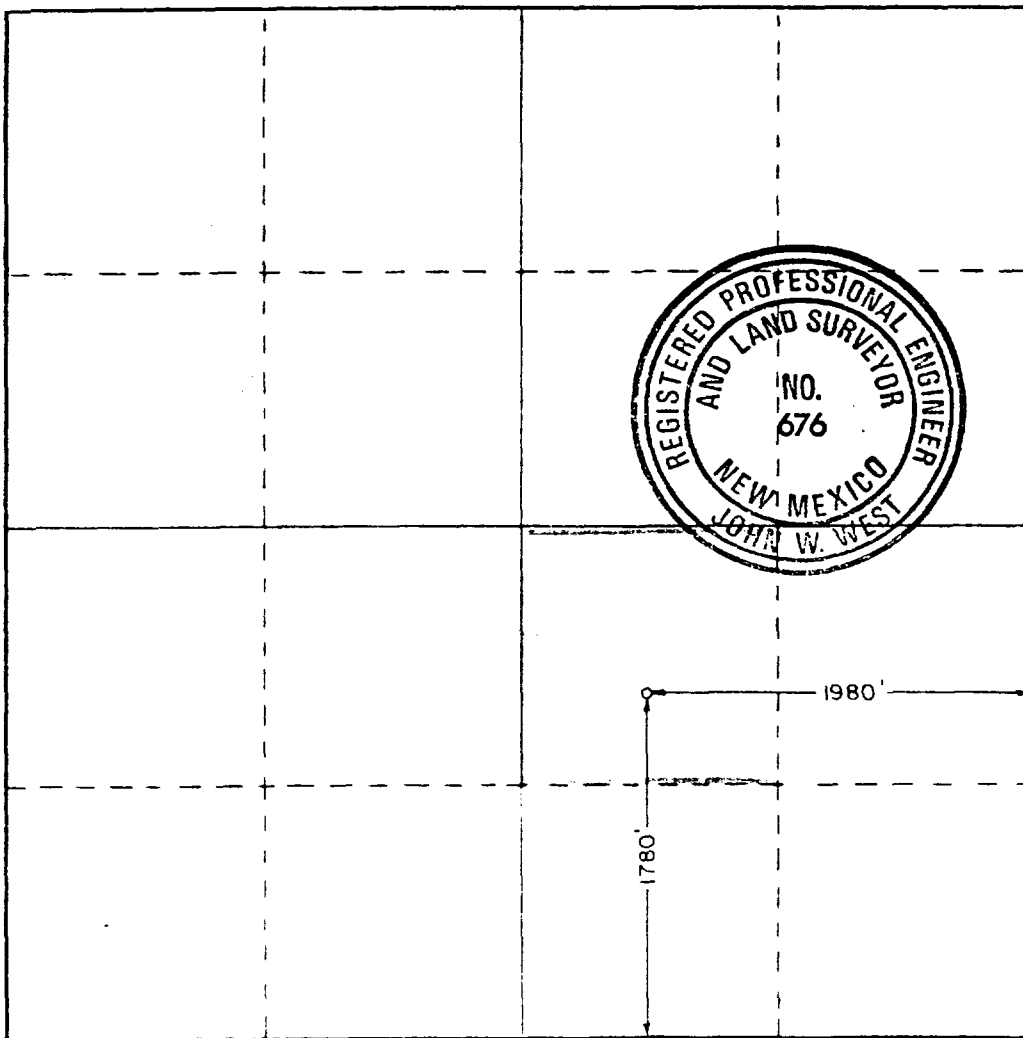
Operator LIBERTY OIL & GAS CORP.		Lease DORIS FEDERAL		Well No. 2
Section J	Section 26	Township 20 SOUTH	Range 28 EAST	County EDDY
Actual Well Location of Well:				
1780	feet from the	SOUTH	line and	1980
				feet from the
				EAST
Ground Level Elev. 3262.2	Producing Formation Bone Spring		Pool Wildcat	Dedicated Acreage: 40

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

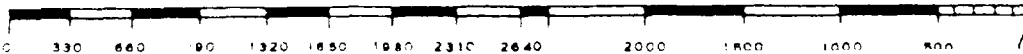
Name
Terry W. Franklin
Position
Agent
Company
Liberty Oil & Gas Corp.
Date
3/27/84

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
MARCH 19, 1984
Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. **JOHN W. WEST, 676**
RONALD J. FIDSON, 1220



WRS COMPLETION REPORT

REISSUES SEC 26 TWP 20S RGE 28E
PI# 30-T-0004 03/31/86 30-015-24833-0000 PAGE 1

NMEX EDDY * 1780FSL 1980FEL SEC
LIBERTY O&G WS WS
OPERATOR DORIS FEDERAL
WELL NO 3275KB 3262GR UNNAMED
OPER ELE API 30-015-24833-0000

06/27/1984 03/07/1986 ROTARY D&A
SPUD DATE COMF DATE TYPE TOOL STATUS
5700 BONE SPG SIERRA O&G 5 RIG SUB 12
PROJ DEPTH PRO FORM CONTRACTOR
DTD 5715 FM/TD BONE SPG
DRILLERS

LOCATION DESCRIPTION

10 MI NE CARLSBAD, NM

CASING/LINER DATA

CSG	13 3/8 @	416 W/	375 SACKS	01
CSG	8 5/8 @	2717 W/	1100 SACKS	02
CSG	5 1/2 @	5715 W/	395 SACKS	03

TYPE	FORMATION	LTH	TOP DEPTH/SUB	BSE DEPTH/SUB
LOG	YATES		905 2370	
LOG	DELAWARE		2928 347	
LOG	BONE SPG		5000 -1725	

PRODUCTION TEST DATA

PTS	1UO			
BONE SPG PERF		W/ 80/IT	5366- 5385	004
PERF	5366- 5385			
ACID	5366- 5385	2000GALS		
15% HCL				
BRPG	5366- 5385	DEPTH	5200	
BONE SPG PERF		W/ 44/IT	4520- 4540	005
PERF	4520- 4540			
SAFR	4520- 4530	2000GALS	33000LBS SAND	
15% HCL		25% CO2		ADDIVACID
20/40				

CONTINUED IC# 300157009684

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Petroleum Information
CORPORATION

WRS
Form No.

REISSUES SEC 26 TWP 20S RGE 28E
PI# 30-1-0004 03/31/86 30-015-24833-0000 PAGE 2

LIBERTY O&G
2

DORIS FEDERAL

WS WS

PRODUCTION TEST DATA

SWBD 75 BF (50% OIL ON LAST RUN)

TREATMENT NOT RPTD

LOGS AND SURVEYS /INTERVAL TYPE/

LOGS
LOGS

EPT
DLL

CNL
MSFL

LDT
NGT

DRILLING PROGRESS DETAILS

LIBERTY O&G
DRAWER N
NEW ROADS, LA
LCC/1984/
04/03 5715 TD, RNG LOGS
07/09 5715 TD, MICT
07/16 5715 TD, SI
07/30 5715 TD, PREP MICT
08/06 5715 TD, SWBG
08/13 5715 TD, SI WOO
08/16
03/25 LOCAL CALL: EL CAPITAN 1410
TD REACHED 07/08/84
07/22 5715 TD
COMP 7/22/85, D&A
NO CORES OR DSTS RPTD
03/25 REISSUE TO CORRECT CSG, PROD TESTS, COMP
DATE & ADD KB ELEV, LOG TOPS & RUNS
REPLACEMENT FOR CT ISSUED 7/22/85