



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
HOBBS DISTRICT OFFICE

5-9-91

BRUCE KING  
GOVERNOR

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

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

*Swd 420*

RE: Proposed:

MC	_____
DHC	_____
NSL	_____
NSP	_____
SWD	<input checked="" type="checkbox"/> _____
WFX	_____
PMX	_____

Gentlemen:

I have examined the application for the:

<i>Strata Production Co. Stevenson</i>	<i>Federal #3-B</i>	<i>33-19-34</i>
Operator	Lease & Well No.	Unit S-T-R

and my recommendations are as follows:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours very truly,

*Jerry Sexton*  
Jerry Sexton  
Supervisor, District

/ed

APPLICATION FOR AUTHORIZATION TO INJECT

91 APR 3 AM 8 58

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage  
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: Strata Production Company  
Address: 648 Petroleum Building, Roswell, NM 88201  
Contact party: Jim McClelland Phone: \_\_\_\_\_
- 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: Jim McClelland Title: Vice President  
Signature: Jim McClelland Date: April 3, 1991
- \* 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:

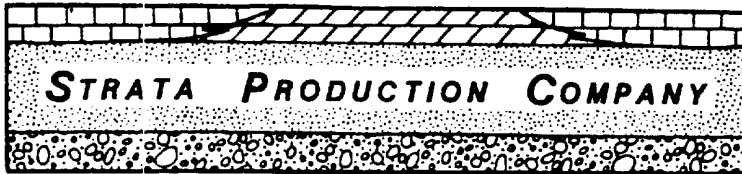
- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates 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.

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

GEORGE L. SCOTT, JR.  
FRANK S. MORGAN  
JAMES G. MCCLELLAND



648 PETROLEUM BLDG.  
ROSWELL, N.M. 88201  
(505) 622-1127  
(505) 622-5891

April 3, 1991

Manzano Oil Corp.  
Attn: Ken Barbe  
PO Box 2107  
Roswell, NM 88201

RE: Salt Water Disposal Well  
Pearl Queen Field  
Sec. 33-T19S-R34E  
Lea County, New Mexico

Dear Ken:

You are the operator of an oil and gas lease within one-half mile of the Stivason Fed #3 well, located 330' FNL, 1650' FEL, Section 33-T19S-R34E, NMPM, Lea County, New Mexico.

Strata Production Company is making application to the New Mexico Oil Conservation Division for authority to convert said well to a water disposal well for the injection of water produced in the Pearl Queen field.

If you object to this Application, or feel that a public hearing is necessary, please contact the Oil Conservation Division, PO Box 2088, Santa Fe, NM 87504-2088. You may also contact Strata Production Company, 648 Petroleum Bldg., Roswell, NM, 88201 or Tel: 505-622-1127.

If you have no objections to the above mentioned Application, please sign one copy of this letter in the space provided and return to the undersigned.

Sincerely,

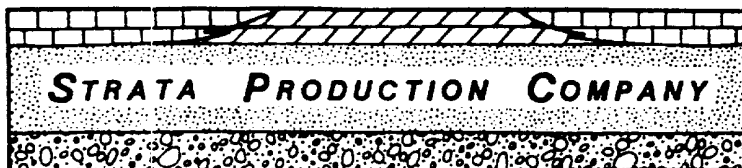
Jim McClelland

JM:sw

We Have No Objections:

\_\_\_\_\_  
Manzano Oil Corp.

GEORGE L. SCOTT, JR.  
FRANK S. MORGAN  
JAMES G. MCCLELLAND



648 PETROLEUM BLDG.  
ROSWELL, N.M. 88201  
(505) 622-1127  
(505) 622-5891

April 3, 1991

Pennzoil Exploration Co.  
Attn: Roy Johnson  
PO Box 1828  
Midland, TX 79702-1828

RE: Salt Water Disposal Well  
Pearl Queen Field  
Sec. 33-T19S-R34E  
Lea County, New Mexico

Dear Mr. Johnson:

You are the operator of an oil and gas lease within one-half mile of the Stivason Fed #3 well, located 330' FNL, 1650' FEL, Section 33-T19S-R34E, NMPM, Lea County, New Mexico.

Strata Production Company is making application to the New Mexico Oil Conservation Division for authority to convert said well to a water disposal well for the injection of water produced in the Pearl Queen field.

If you object to this Application, or feel that a public hearing is necessary, please contact the Oil Conservation Division, PO Box 2088, Santa Fe, NM 87504-2088. You may also contact Strata Production Company, 648 Petroleum Bldg., Roswell, NM, 88201 or Tel: 505-622-1127.

If you have no objections to the above mentioned Application, please sign one copy of this letter in the space provided and return to the undersigned.

Sincerely,

A handwritten signature in cursive script, appearing to read "Jim McClelland", is written over a horizontal line.

Jim McClelland

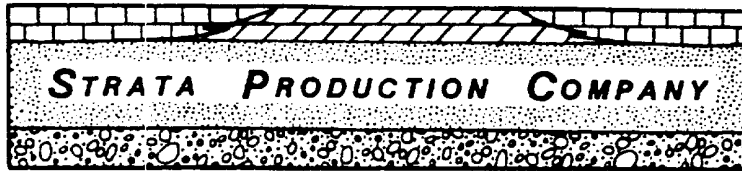
JM:sw

We Have No Objections:

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Pennzoil Exploration Co.

GEORGE L. SCOTT, JR.  
FRANK S. MORGAN  
JAMES G. MCCLELLAND



648 PETROLEUM BLDG.  
ROSWELL, N.M. 88201  
(505) 622-1127  
(505) 622-5891

April 3, 1991

ORYX ENERGY  
PO BOX 1861  
Midland, TX 79702-1862

RE: Salt Water Disposal Well  
Pearl Queen Field  
Sec. 33-T19S-R34E  
Lea County, New Mexico

Dear Sir:

You are the operator of an oil and gas lease within one-half mile of the Stivason Fed #3 well, located 330' FNL, 1650' FEL, Section 33-T19S-R34E, NMPM, Lea County, New Mexico.

Strata Production Company is making application to the New Mexico Oil Conservation Division for authority to convert said well to a water disposal well for the injection of water produced in the Pearl Queen field.

If you object to this Application, or feel that a public hearing is necessary, please contact the Oil Conservation Division, PO Box 2088, Santa Fe, NM 87504-2088. You may also contact Strata Production Company, 648 Petroleum Bldg., Roswell, NM, 88201 or Tel: 505-622-1127.

If you have no objections to the above mentioned Application, please sign one copy of this letter in the space provided and return to the undersigned.

Sincerely,

A handwritten signature in cursive script, appearing to read "Jim McClelland", is written over a horizontal line.

Jim McClelland

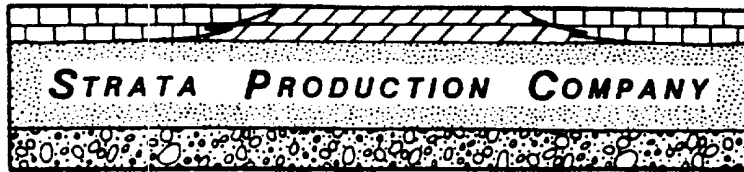
JM:sw

We Have No Objections:

ORYX ENERGY

Date

GEORGE L. SCOTT, JR.  
FRANK S. MORGAN  
JAMES G. MCCLELLAND



648 PETROLEUM BLDG.  
ROSWELL, N.M. 88201  
(505) 622-1127  
(505) 622-5891

April 3, 1991

Hondo Oil and Gas  
Attn: Mr. Ernie Buttross  
410 E. College Blvd.  
Roswell, NM 88201

RE: Salt Water Disposal Well  
Pearl Queen Field  
Sec. 33-T19S-R34E  
Lea County, New Mexico

Dear Mr. Buttross:

You are the operator of an oil and gas lease within one-half mile of the Stivason Fed #3 well, located 330' FNL, 1650' FEL, Section 33-T19S-R34E, NMPM, Lea County, New Mexico.

Strata Production Company is making application to the New Mexico Oil Conservation Division for authority to convert said well to a water disposal well for the injection of water produced in the Pearl Queen field.

If you object to this Application, or feel that a public hearing is necessary, please contact the Oil Conservation Division, PO Box 2088, Santa Fe, NM 87504-2088. You may also contact Strata Production Company, 648 Petroleum Bldg., Roswell, NM, 88201 or Tel: 505-622-1127.

If you have no objections to the above mentioned Application, please sign one copy of this letter in the space provided and return to the undersigned.

Sincerely,

A handwritten signature in cursive script, appearing to read "Jim McClelland".

Jim McClelland

JM:sw

We Have No Objections:

---

Hondo Oil and Gas

**AFFIDAVIT OF PUBLICATION**

State of New Mexico,  
County of Lea.

I, Kathi Bearden

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

of \_\_\_\_\_

One weeks.  
Beginning with the issue dated

March 11, 1991  
and ending with the issue dated

March 11, 1991

Kathi Bearden  
General Manager

Sworn and subscribed to before

me this 18 day of

March, 1991

Rhonda Copeland  
Notary Public.

My Commission expires \_\_\_\_\_

July 24, 1991

(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

**LEGAL NOTICE  
March 11, 1991  
PUBLIC NOTICE  
APPLICATION  
FOR WATER DISPOSAL**

Strata Production Company, 648 Petroleum Building, Roswell, New Mexico 88201, (Contact: James G. McClelland, (505) 622-1127) has made Application to 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 Strata Production Company Stivason Federal #3 well, located 330 feet from the North line, 1650 feet from East line, Section 33, T-19-S, R-34-E, NMPM, Lea County, New Mexico.

The purpose of this water injection well is to dispose of salt water produced from the Pearl Queen Field as currently designated by the Oil Conservation Division and as may be extended by additional drilling.

Water to be disposed of will be injected into the Upper Standstone of the

Queen formation at an interval lying between 4508 feet and 4556 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 800 barrels of water per day.

Minimum injection pressure will be approximately 430 psi. The maximum injection pressure is expected to be 1200 psi.

Any interested party may file an objection to this 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, NM 87504-2088, within 15 days from date of this publication.

**STRATA  
PRODUCTION  
COMPANY**

By James G. McClelland  
648 Petroleum Building  
Roswell,  
New Mexico 88201  
Telephone: (505) 622-1127



March 15, 1991

Oil Conservation Division  
PO Box 2088  
Santa Fe, NM 87501

RE: Proposed Water Disposal Well  
Strata Production Company  
Stivason Federal #3  
330' FNL & 1650' FEL  
Section 33-T19S-R34E  
Lea County, New Mexico

Gentlemen:

Strata Production proposes to convert captioned well for water disposal into the Queen formation. This well was drilled by MorOilCo in 1985. The present operator is Strata Production Company.

This well was originally drilled to 4,630' and 5½ casing was set. First, several Seven Rivers sandstones were perforated at 4291-94, 4092-4108, and 3926-32. These perfs were squeezed off. Then the Queen sandstone (proposed disposal zone) was perforated from 4527-36 and produced water. A CIBP was set at 4500 feet with 35 feet of cement on top and then the Seven Rivers sandstone at 3901-3908 was perforated. This zone is presently producing less than 500 MCFG per month - a sub-economic rate.

To prepare the Stivason #3 wellbore for water injection, Strata Production Company proposes to squeeze off the perforations at 3901-3908 and drill out to the top of the plug at 4500'. Then Strata will pressure up on the casing and make sure all of the perforations in the Seven Rivers are properly sealed. Next, the cement and CIBP at 4500' will be drilled out.


The objective is to inject water into the Upper Queen sandstone "a 30-foot thick sandstone having porosities of 18 to 22%. (see log exhibit). This laterally extensive sandstone gave up water with no shows when tested in the Stivason Federal #3 well. In the proposed disposal well, the Queen sandstone is 10 feet downdip to the lowest Queen producer in the Pearl Queen field, the Stivason Federal #2 well. The cement bond log indicates a good bond in and above the Queen sandstone. The top of the Queen sandstone is 600' below the only other potential pay zone in the wells within the area of review. Vertical fluid communication from, or within, the injection zone is restricted by dense zones of anhydritic dolomite and anhydrite.

The water to be injected is produced from nearby Queen and Penrose sandstone wells operated by Strata Production Company and Manzano Oil Corporation. Water samples from these wells have shown the waters have fluid chemistries compatible with the zone to be injected. Also, Penrose and Queen water is currently being injected back into the Queen just two miles to the east in Section 35-T19S-R34E. The only fresh water being produced in the area is for a stock tank located in the SE/4SE/4 of Section 4-T20S-R34E, just within the two mile radius from the proposed injection well. There is no evidence of faulting or any other hydrological connection between potential fresh water aquifers and the proposed injection zone.

Exhibits Furnished:

- Exhibit #1. Map showing all wells and leases within a two-mile radius and a half-mile radius around the proposed injection well.
- Exhibit #2. Type log exhibit showing a CNL-FDC profile of the Upper Queen sandstone with overlying anhydrite and dolomite beds.
- Exhibit #3. Structure Map - Top of Queen Sandstone
- Exhibit #4. Wellbore Diagram

Respectfully submitted,

  
Stephen T. Mitchell  
Consulting Geologist

March 18, 1991

Oil Conservation Division  
PO Box 2088  
State Land Office Building  
Santa Fe, NM 87501-2088

RE: Application for Authorization to Inject  
Stivason Federal #3  
NWNE Section 33-T19S-R34E

Gentlemen:

Strata Production Company is seeking authorization to inject water into the Queen formation in the Stivason Federal #3 well for the purpose of water maintenance. Attached is an injection well data sheet showing the proposed mechanical configuration and a map showing the one-half mile and two mile radius around the proposed injection well. A brief description of the wells within the half-mile radius is given below:

Section 33-T19S-R34E, Unit B, NW/4NE/4 (Proposed injection well),  
Strata Production Company "Stivason Federal" #3. Spud 12-15-85, completed 5-5-86. TD 4,630 feet. 8 5/8" 24# set at 1,611 feet with 400 sacks (circulate 25 sacks to pit). 5 1/2" 15.5# set at 4,630 feet with 375 sacks.

Perfed 4,291-94 and 4,092-4108, squeezed perfs with 75 sacks cement. Perfed 3,926-32, squeezed perfs with 75 sacks cement, perforate Queen 4,527-36, set CIBP at 4,500' w/35 feet cement on top, perforate 3,901-08.

Well is presently producing gas from the Seven Rivers from 3,901-08 at sub-economic rate.

Section 33-T19S-R34E, Unit A, NE/4NE/4, Strata Production  
Company "Stivason Federal #1". Spud 6-1-84, completed 4-85. TD 5,200 feet. 8 5/8" 24# set at 1,535 feet w/400 sacks pace setter lite cement and 200 sacks Class C. 4 1/2" 10.5# set at 5,200 feet with 600 sacks Class C cement. Ran 1" tubing in annulus between 8 5/8" and 4 1/2" casing and circulate cement from base 8 5/8" to surface w/300 sacks lite cement.

Perfed Penrose at 5,022-28. Perfed Queen at 4,511-14, 4,528-32. Set bridge plug and Perf Seven Rivers at 4,095-4,100, 4,010-25, 3,906-14. Produced gas from Seven Rivers. Moved back to Queen formation. Well is presently pumping from Queen sandstone.

Section 28-T19S-R34E, Unit O, SW/4SE/4, Strata Production  
"Stivason Federal" #2 well. Spud 12-20-84, completed 1-15-85. TD 4,610 feet. 8 5/8" csg 24# set at 1,562' with 400 sack Halliburton Lite and tail in w/150 sack Class C. Circulate 50 sacks to pit, 5 1/2" csg 14.8# at 4,610 feet, cement with 200 sacks Halliburton Lite and 250 sacks Class C.

Completed in the Queen, perf 4523-31. Producing.

Section 28-T19S-R34E, Unit P, SE/4SE/4, Strata Production  
Company Stivason Federal #4. Spud 6-13-89, completed 7-20-89. TD 5,125 feet. 8 5/8" 23# casing set at 1,330 feet with 450 sacks Lite cement and 200 sacks "Premium Plus" cement. 5 1/2" casing 15.5# set at 5,125', cement with 550 sacks "Premium Plus".

Completed in the Penrose and Queen 4,668-69, 4,804-05, 4,851-61, 4,508-31. Producing.

Section 27-T19S-R34E, Unit M, SW/4SW/4, Strata Production Company  
Stivason Federal #5. Spud 11-5-89, completed 12-18-89. TD 5,115 feet. 8 5/8" 24# set at 1,318 feet w/400 sacks PSL "C" and 200 sacks Class C. Circulate 175 sacks to pits. 5 1/2" 15.5# set at 5,115', set w/450 sacks Lite plus 380 sacks "Premium Plus".

Completed from Penrose and Queen, 4,794-99, 4,842-44, 4,518-28, 4,534-37. Producing.

Section 28-T19S-R34E, Unit J, NW/4SE/4, Manzano "Sun Pearl  
Federal #1", Spud 6-2-89, completed 6-26-89. TD 5,152 feet. Csg 8 5/8" 23# at 1,342 feet with 700 sacks. Csg 4 1/2" at 5,150 feet with 1,600 sacks cement.

Completed from Penrose and Queen, 5,070-80, 4844-46, 4,795-97, 4,505-17, 4,525-32. Producing.

Section 28-T19S-R34E, Unit I, NE/4SE/4, Manzano Sun Pearl Federal  
#2, Spud 11-17-89, completed 12-12-89. TD 5,153 feet. Csg 8 5/8" at 1,359 feet cemented with 400 sacks. 5 1/2" at 5,153 feet with 1,100 sacks.

Completed from Penrose and Queen, 4,782-88, 4,829-35, 4,520-30, 4,535-40.

Section 28-T19S-R34E, Unit N, SE/4SW/4, Drilling and Exploration  
Co, Inc. "Federal #1", Spud 11-12-59, completed 12-17-59.  
TD 5,805. Casing 8 5/8" at 361 feet with 275 sacks cement.

Well Plugged and Abandoned.





The proposed water maintenance well will inject Queen and Penrose produced water from Strata Production Company and Manzano Oil Corporation leases and possibly from other nearby operators. Our average injection rate into the well will be 0.5 BPM with an average initial daily total of 350 barrels. The maximum rate we anticipate is 1.0 BPM with a maximum daily total of 800 barrels. We expect an average injection pressure of 600# psi and request an operating maximum of 860# psi. The system will be regulated with Murphy Controls so as not to have a continuous injection of fluid. No deeper aquifers containing usable water are known in this area. The sandstone to be injected into the proposed disposal well is down dip to oil-water contact.

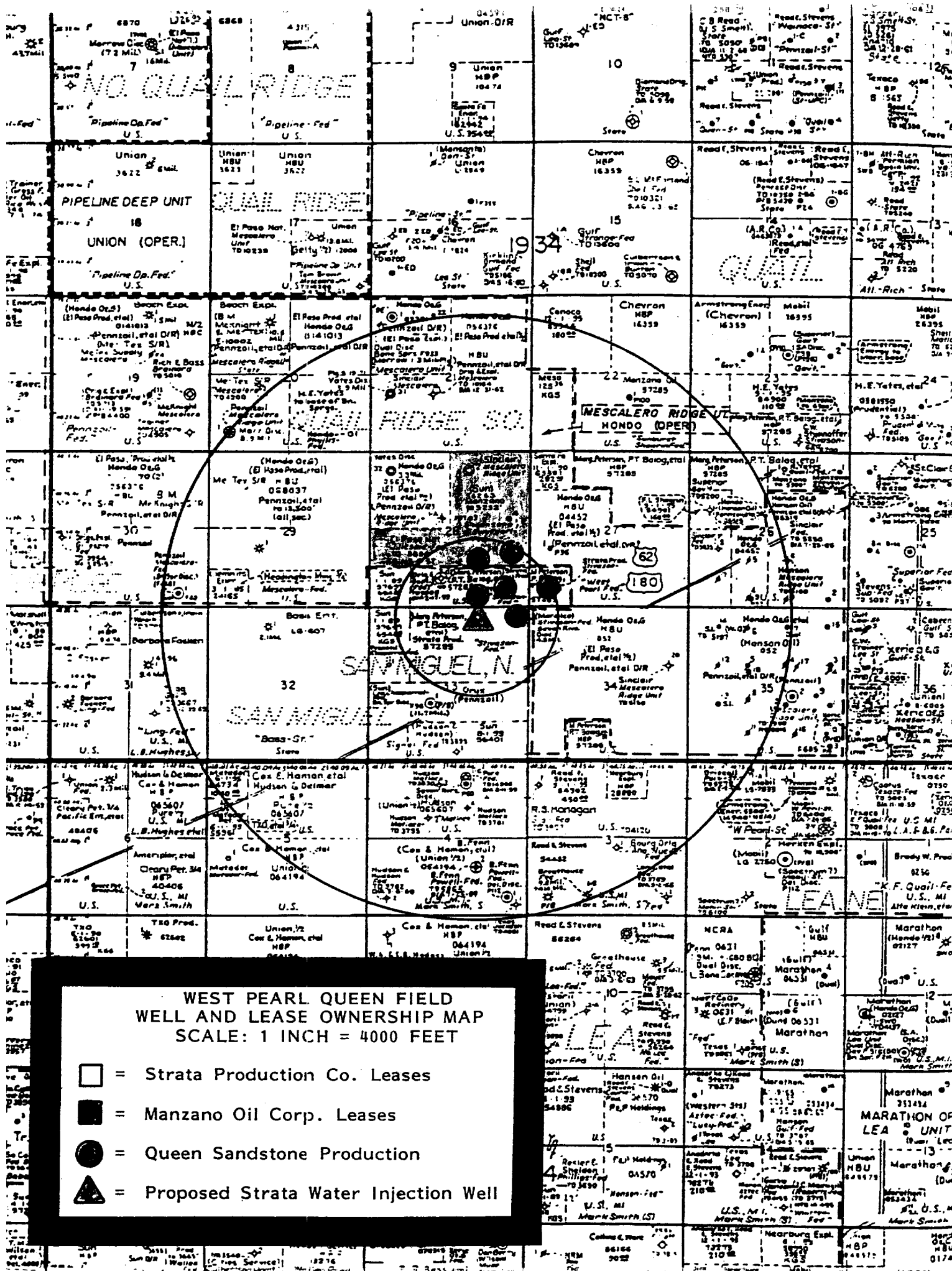
Sincerely,

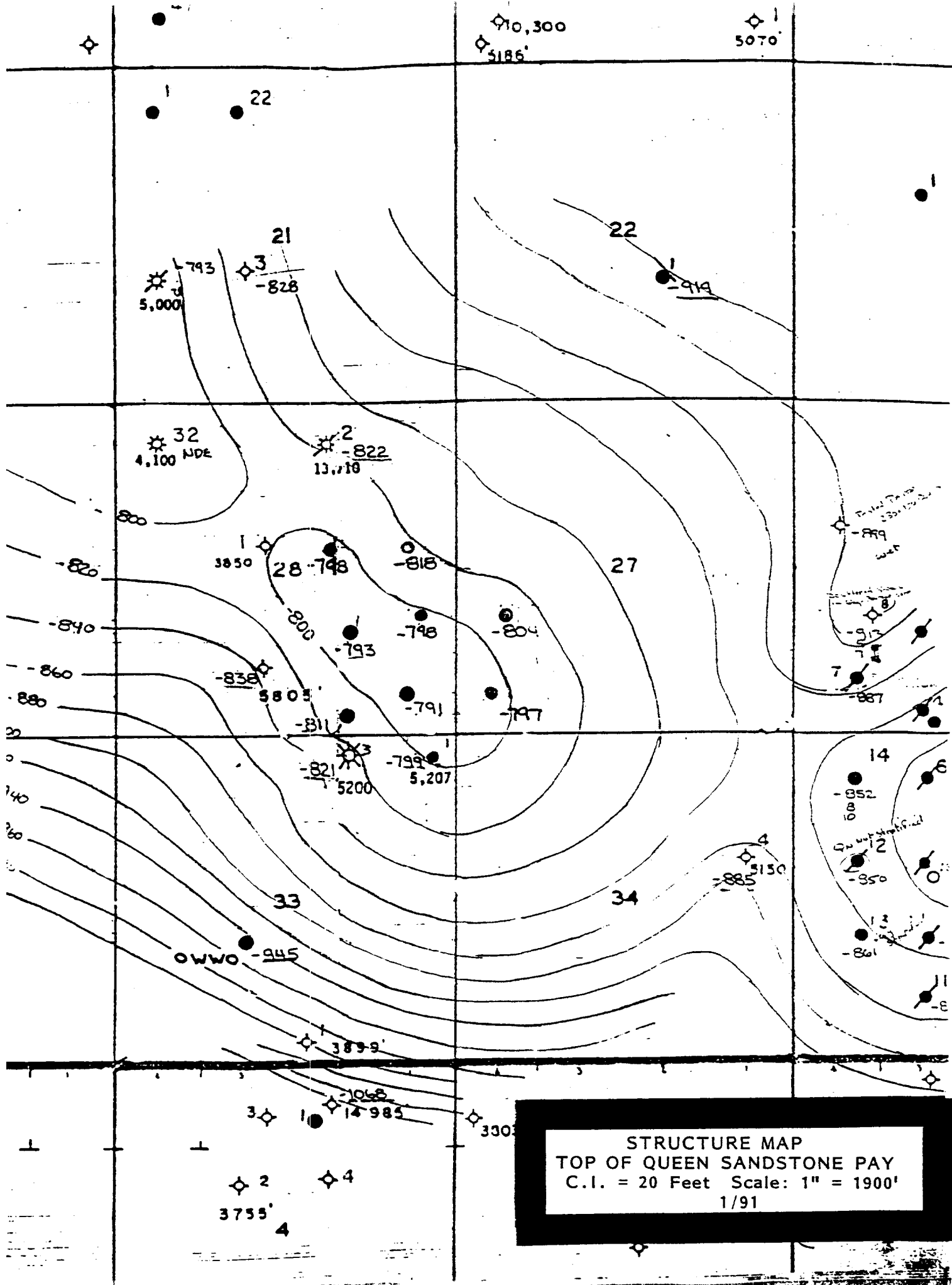
A handwritten signature in cursive script, reading "George L. Scott". The signature is written in dark ink and is positioned above the printed name.

George L. Scott

# WEST PEARL QUEEN FIELD WELL AND LEASE OWNERSHIP MAP SCALE: 1 INCH = 4000 FEET

-  = Strata Production Co. Leases
-  = Manzano Oil Corp. Leases
-  = Queen Sandstone Production
-  = Proposed Strata Water Injection Well





STRUCTURE MAP  
TOP OF QUEEN SANDSTONE PAY  
C.I. = 20 Feet Scale: 1" = 1900'  
1/91

PE LOG EXHIBIT  
STRATA PRODUCTION CO.  
STIVASON FEDERAL #1  
330' FNL & 1650' FEL  
SEC. 33/T19S-R34E

4500

QUEEN SANDSTONE  
ZONE TO BE INJECTED

Ref

$\Phi_N$

Tension

FR GR

FR CNL  
4600

FR LDT

Gemma  
Ray

Caliper



STRATA PRODUCTION COMPANY  
STIVASON FEDERAL #3  
SECTION 33-T19S-R34E  
330' FNL + 1650' FEL  
Lea County, New Mexico

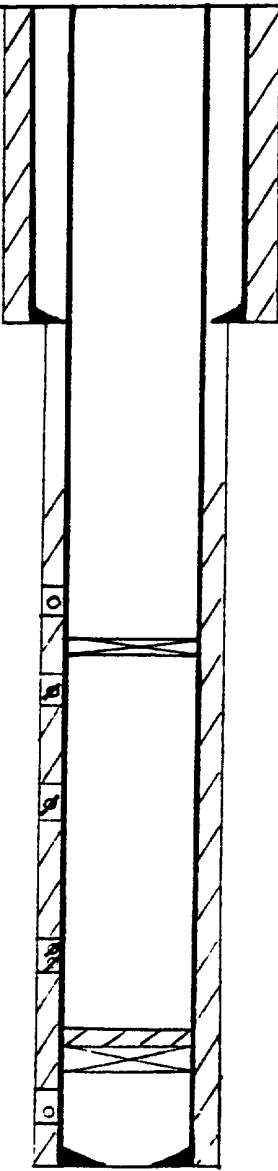
Comments & Perforating

Bit

Casing

Depth

Cement

<p>Perf 3901-08 EZ Drill Cement retainer @ 3920'</p> <p>Perf 3926-32 sqz perfs 3926-32 ISDP 1300#</p> <p>CIBP @ 4070' w/30ft cement on top drilled out to perf Queen</p> <p>Perf 4092-4108 ISDP 1800# sqzd perfs</p> <p>Perf 4291-94 sqzd w/75 sx Drilled out to perf Queen</p> <p>CIBP @ 4500' w/35ft cement on top</p> <p>Perf 4527-36</p>		<p>12 1/4</p>	<p>8 5/8" 24#</p>	<p>1611'</p>	<p>400 sx Halliburton Lite Circ. 25 sx to pit</p> <p>TOC @ Approx. 3070' from CBL</p> <p>375 sx Class C w/6# Salt and 0.2% CFR3</p>
		<p>7 7/8"</p>	<p>5 1/2" 15.5#</p>	<p>4630</p>	

Drilling and Exploration Co.  
 Federal # 1 well  
 Section 28-T19S-R34E  
 990' FSL & 2310' FWL  
 Lea County, N.M.

Plugging

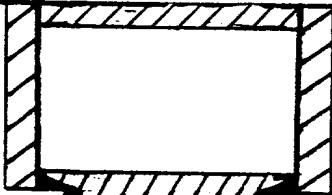
Bit

Casing

Depth

Cement

5 sx in top of  
 5/8 inch casing



12 1/4

8 5/8"

362'

275 sx  
 regular  
 cmt

5 sx from  
 25 - 370'

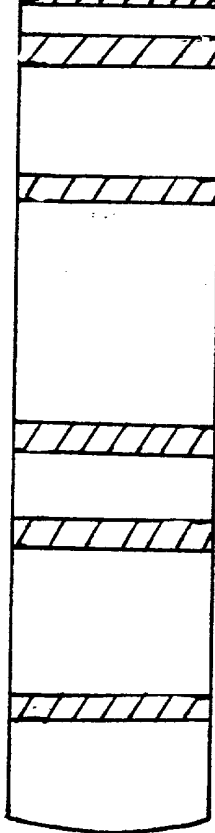
5 sx from  
 00 - 875'

5 sx from  
 825 - 1900'

5 sx from  
 325 - 3400'

5 sx from  
 300 - 3875'

25 sx from  
 5140 - 5215'



7 7/8"

None

5805'

OPERATOR Strata Production Co. LEASE West Pearl Queen WELL NO. #3

WELL NAME Stivason Federal #3 SEC. 33 TWN. 19S RGE. 34E FTG. 330' FNL & 1650' FEL

Schematic

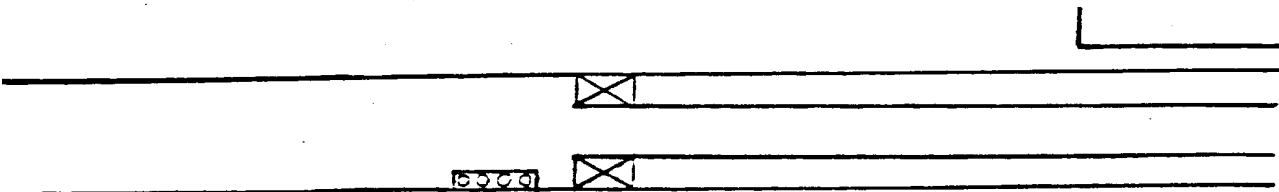
Surface Casing  
Size 8 5/8" Cemented with 400 sx.  
TOC Surface feet determined by circ.  
Hole size 12 1/4"

8 5/8" at 1611'

Long String  
Size 5 1/2" Cemented with 375 sx.  
TOC 3070' feet determined by CBL  
Hole size 7 7/8"  
Total Depth 4630'  
Injection Interval 4510' to 4555'  
Open hole interval \_\_\_\_\_ to \_\_\_\_\_

Halliburton Model "R" Pkr.

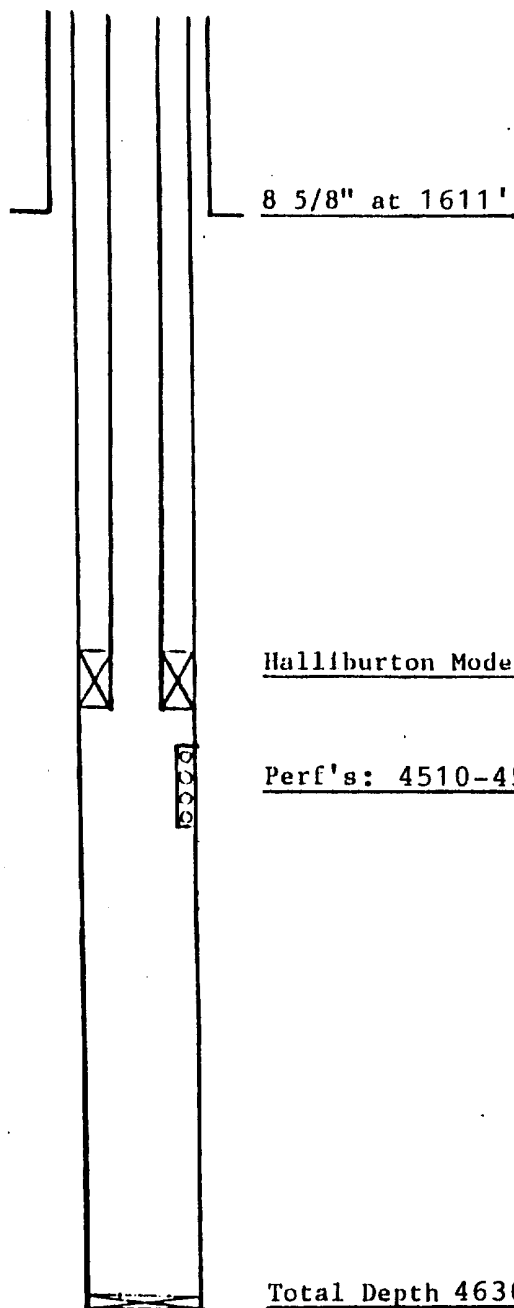
Perf's: 4510-4555'



OPERATOR Strata Production Co. LEASE West Pearl Queen WELL NO. #3

WELL NAME Stivason Federal #3 SEC. 33 TWN. 19S RGE. 34E FTG. 330' FNL & 1650' F

Schematic



Surface Casing

Size 8 5/8" Cemented with 400 sx.  
TOC Surface feet determined by circ.  
Hole size 12 1/4"

Long String

Size 5 1/2" Cemented with 375 sx.  
TOC 3070' feet determined by CBL  
Hole size 7 7/8"

Total Depth 4630'

Injection interval 4510' to 4555'  
Open hole interval \_\_\_\_\_ to \_\_\_\_\_

Halliburton Model "R" Pkr.

Perf's: 4510-4555'

Total Depth 4630'

Tubing size 2 3/8" lined with plastic set in a Halliburton Model "R"  
packer at 4350' feet. (brand and model)  
Describe any other casing-tubing seal None.

Other Data

1. Name of the injection formation Queen
2. Name of Field of Pool (if applicable) West Pearl Queen
3. Is this a new well drilled for injection? YES XX NO.  
If no, for what purpose was the well originally drilled? Production of oil & gas.
4. 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) \*\*
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (wells) in this area. Information covered in format.

**\*\* Perfs 3901-08; Producing. EZ Drill cement retainer at 3920'. Perfs 3926-32' are squeezed. CIBP at 4070'. CIBP drilled out to perf. 4092-4108'. Squeezed perfs. Perf and squeezed 4192-94'. Set CIBP at 4500' to cover perfs 4527-36'.**