STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

12/16/98

GOVERNOR

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

SWD-735

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

RE: Proposed:
MC _____
DHC _____
NSL _____
NSP _____
SWD X
WFX _____
PMX _____

Gentlemen:

I have examined the application for the:

New Mexico Salt Water Disposal Co Inc Continental State #1-F-18-10s-34e
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

Recommend approval if no protest.

Yours very truly,

Chris Williams

Chris Williams
Supervisor, District 1

/ed

NEW MEXICO SALT WATER DISPOSAL COMPANY, INC.
400 N. PENN, SUITE 1000 P. O. BOX 1518
ROSWELL, NEW MEXICO 88202
PHONE 505 622-3770

December 9, 1998

Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Attention: Mr. Ben Stone

RE: Application For Permit To Dispose Of Salt Water
Continental State #1
1976.6' FNL & 1970.1' FWL
Section 18 T10S-R34E
Lea County, New Mexico

Dear Ben:

As I discussed with you several weeks ago the New Mexico Salt Water Disposal Company, Inc. is in a bit of a financial crunch due to losing the subject disposal well in the Bough "C" formation. Therefore, enclosed is our application for authorization to inject into the San Andres formation in the subject well. Since we are enduring a financial hardship until additional injection capacity can be put into service, I would appreciate it if you can expedite this application in every possible way. The land owner and offset operators have received a copy of the application as evidenced by the certified mail receipts enclosed. Also enclosed from the Hobbs Daily News Sun is an affidavit evidencing our legal notice published December 3, 1998. Pursuant to Rule 701 our application can be approved administratively if no protests or requests for hearings are received fifteen (15) days after this date of notification.

Please let me know if you have any questions concerning our application.

Sincerely,

NEW MEXICO SALT WATER DISPOSAL COMPANY, INC.

John C. Maxey, Jr.
Agent

JCM/sr/jcmltrsocd2cont1
Enclosures
Orig: OCD Santa Fe & 1 xc
Xc: OCD Hobbs

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, KATHI BEARDEN

Publisher

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 1

weeks.

Beginning with the issue dated

December 3 1998

and ending with the issue dated

December 3 1998

Kathi Bearden

Publisher

Sworn and subscribed to before

me this 2nd day of

December 1998

Jodi Henson

Notary Public.

My Commission expires
October 18, 2000
(Seal)

LEGAL NOTICE
December 3, 1998

New Mexico Salt Water Disposal Company, Inc. [illegible] apply for authority to convert the Continental State #1 well located 1978' [illegible] & 1920' FWL of Section [illegible] R34E of Lea County, New Mexico into a salt water disposal well. Water produced [illegible] west of Crossroads, New Mexico will be disposed of into the San Andres formation from 4,200' to 5,300'. The maximum daily injection rate will be 2,000 BWPD with a maximum injection pressure of 1,000 psi. Interested parties must file objections or requests for hearing with the Oil Conservation Division, 2040 S. Pacheco Street, Santa Fe, New Mexico 87505 within fifteen (15) days of this notice.
John C. Maxey, Jr.
Agent
New Mexico Salt Water Disposal Company, Inc.
P.O. Box 1518
[illegible] 88202
[illegible]

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.

a0107570000 01528367

Read & Stevens, Inc.
P.O. Box 1518
a/c 463165
ROSWELL, NM 88202

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "*Return Receipt Requested*" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

COMMISSIONER OF PUBLIC LANDS
STATE LAND OFFICE
P. O. BOX 1148
SANTA FE, NM 87504-1148

4a. Article Number: Z 262 030 380

4b. Service Type
☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery: DEC 03 19

5. Received By: *(Print Name)*

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

6. Signature: *(Addressee or Agent)*
X

PS Form **3811**, December 1994 102595-97-B-0179 Domestic Return Receipt

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "*Return Receipt Requested*" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

BTA OIL PRODUCERS
ATTN: LAND MANAGER
104 S. PECOS
MIDLAND, TX 79701

4a. Article Number: Z 262 030 389

4b. Service Type
☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery: DEC 0 3 1998

5. Received By: *(Print Name)* LUIS SOSA

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

6. Signature: *(Addressee or Agent)*
X

PS Form **3811**, December 1994 102595-97-B-0179 Domestic Return Receipt

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "*Return Receipt Requested*" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

YATES PETROLEUM
ATTN: LAND MANAGER
105 S. 4TH
ARTESIA, NM 88210

4a. Article Number: Z 262 030 385

4b. Service Type
☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery: 12-3-98

5. Received By: *(Print Name)* JOANN GRIGGS

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

6. Signature: *(Addressee or Agent)*
X JoAnn Griggs

PS Form **3811**, December 1994 Domestic Return Receipt

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

ENERGY AND MINERALS DEPARTMENT

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

Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: New Mexico Salt Water Disposal Company, Inc.

Address: P. O. Box 1518 Roswell, New Mexico 88202

Contact party: John C. Maxey, Jr. Phone: 505/622-3770

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: John C. Maxey, Jr. Title Agent

Signature: John C Maxey Jr. Date: 12/02/98

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. _____

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

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

(1) The name, address, phone number, and contact party for the applicant;

(2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;

(3) the formation name and depth with expected maximum injection rates and pressures; and

(4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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.

Application For Authorization To Inject
New Mexico Salt Water Disposal Company, Inc.
Supplemental Information Per OCD Form C-108
December 2, 1998

III.A. 1. Continental State #1, 1976.6' FNL & 1970.1' FWL, Section 18 T10S-R34E, Lea County, New Mexico.

2.

Csg Size	Depth	Cement (sx)	Hole Size	TOC
12 3/4"	363'	350	15"	Circulated To Surface
8 5/8"	4,045'	350	11"	2,188' Calculated
5 1/2"	9,925'	500	7 7/8"	5,400' Squeeze Cement

3. 2 3/8" 2,500 psi fiberglass tubing latched into a packer at 4,100'.

4. Baker Lok-set packer set at 4,100' with a 1.78" ID profile and right hand release on-off tool.

5. All components nickel plated or plastic coated.

III.B. 1. The injection interval is the San Andres formation in the Vada Penn field.

2. The injection interval is located from 4,200' to 5,300', perforated through casing.

3. The well was originally drilled as a Bough "C" producer in 1968. The well is depleted and uneconomic to produce.

4. The Bough "C" perfs 9,754'—9,880' have been P&A'd w/ a CIBP @ 7,100' w/ 100' cement on top, and 40 sx cement squeezed below CIBP. Perfs @ 5,460' (2 holes) have been squeezed w/ 30 sx cement below a cement retainer @ 5,400', w/ 100' cement plug set above CIR.

5. The next lower interval that produces in the area is the Abo with the top being located at approximately 7,750'. There is no higher interval of production in the area.

V. A map is attached identifying all leases in the area of the proposed disposal well, and the one half-mile radius area of interest is drawn around the proposed disposal well.

VI. Within the area of review there are two wells that penetrate the proposed injection zone. The Champlin 18 State #1 is located 1980' FSL and 1980' FWL of Section 18 T10S-R34E, Lea County, New Mexico. This well was spudded on March 7, 1968 and completed on May 1, 1968 in the Permo Penn (Bough "C"). The well was drilled to a total depth of 9,910' and is plugged and abandoned. An attached schematic illustrates all plugging details. The Champlin 18 State #2 is located 1980' FNL and 1980' FEL of Section 18 T10S-R34E, Lea County, New Mexico. It was spudded on May 5, 1968 and completed June 12, 1968. Total depth was 9,915' and it was completed in the Permo Penn (Bough "C"). An attached schematic illustrates all plugging details.

VII. 1. The proposed average and maximum daily rate and volume of fluids to be injected are 720 BWPD and 2000 BWPD respectively.

2. The system is a closed system.

3. The anticipated average operating pressure is 0 psi and the anticipated maximum operating pressure is 1,000 psi.

4. The source for injected fluid is Bough "C" and San Andres produced water being produced from the area west of Crossroads, New Mexico. An analysis of the Injection fluid is attached.

5. Attached is a chemical analysis of produced water from the Flying M San Andres field in Section 21-T9S-R33E of Lea County, New Mexico.

VIII. The proposed injection zone the San Andres formation is a brown to light tan dolomite having intercrystalline porosity. Porosity ranges from 5% to 10% using an Acoustic Velocity log run in 1968. The interval proposed for injection is 1,100' with the top of the San Andres formation located at 3,985'. The 12 3/4" surface casing was run to a depth of 363' to protect any underground sources of fresh water. There are no known sources of fresh water below 363' overlying the proposed injection zone, and there are no known sources to be immediately underlying the injection interval.

IX. The proposed injection interval will be treated with 1,000 gallons of 20% NEFe acid down tubing with a packer set approximately 100' above the top perf. The average injection rate will be 5 to 7 BPM.

X. Appropriate logs have been filed with the Division and do not need to be resubmitted.

XI. There are no fresh water wells within one mile of the proposed disposal well, according to a search done by the New Mexico State Engineers office.

XII. Upon examination of the available geologic and engineering data, no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water was found.

XIII. Notice of this application has been furnished by certified mail to the owner of the surface of the land on which the well is located and to each leasehold operator within one-half mile of the well location. The land owner and leasehold operators are listed below. Since this application is subject to administrative approval, proof of publication is also attached to this application and was published in the Hobbs News Sun, Lea County, New Mexico.

Land Owner:
Commissioner of Public Lands
State Land Office
P. O. Box 1148
Santa Fe, New Mexico 87504-1148

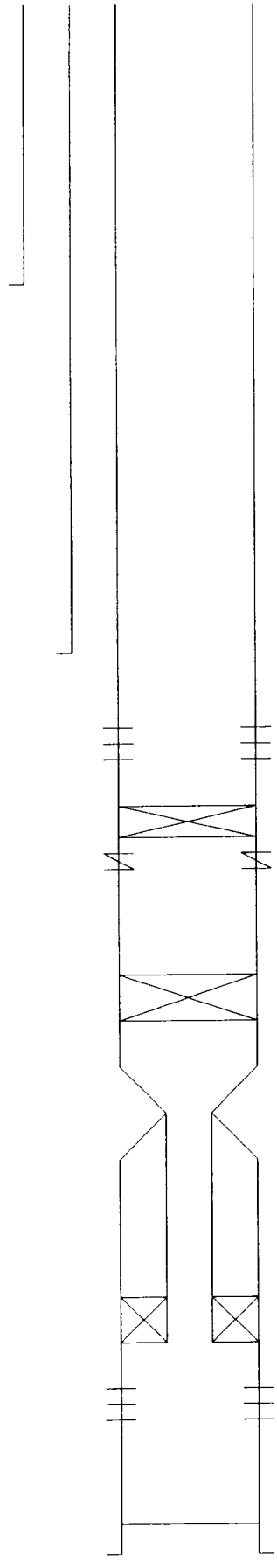
Leasehold Operators:
Yates Petroleum
Attn: Land Manager
105 S. 4th
Artesia, New Mexico 88210

BTA Oil Producers
Attn: Land Manager
104 S. Pecos
Midland, Texas 79701

JCM/sr/jcmltrs/swdappc1

Attachments

Continental St #1
Sec 18 10S - 34E
Lea Co., NM
November 18, 1998
Current Config



15" hole x 12 3/4" 48# csg @ 363' cmt w/ 350 sx to surf

11" hole x 8 5/8" 24# & 32#, J55 csg @ 4,045' cmt w/ 350 sx. TOC 2,188' FS (Calc)

Perf San Andres 4,692 - 4,700, 4,716 - 34, 4,776 - 86, 4,792 - 4,806, and 4,826 - 30 w/ 2 spf, 113 holes.

CIR set @ 5,400 w/ squeeze perfs @ 5,460 (2 holes). Squeeze w/ 30 sx to 3,000 psi, dumping 100' cmt on CIR.

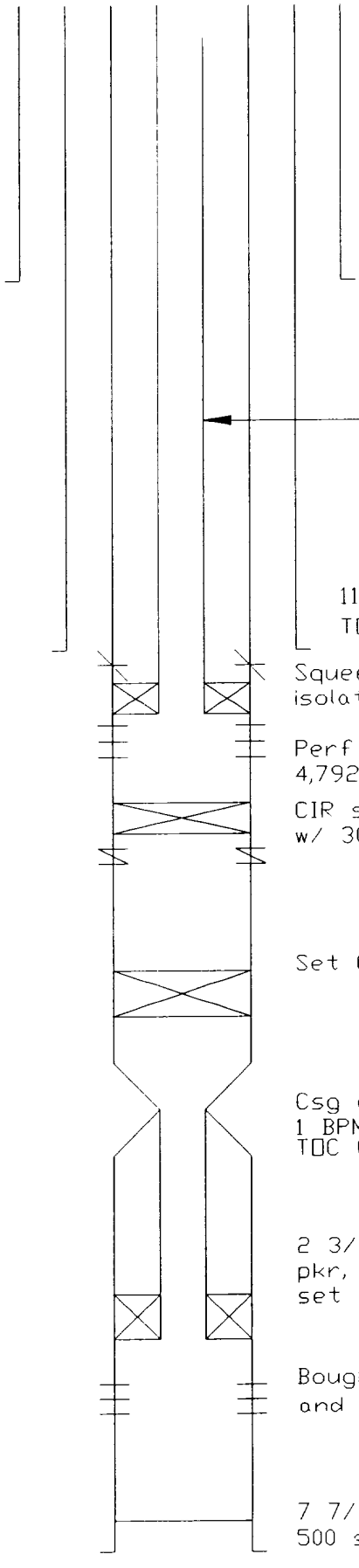
Set CIBP @ 7,000 and spot 100' cmt on top.

Csg collapsed @ 7,100'. Squeeze cmt interval w/ 40 sx cmt @ 1 BPM and 3,000 psi. Drill out and attempt to swedge csg. TOC @ 6,050' est.

2 3/8" 2,500 psi fiberglass tubing w/ nickel plated Baker Lok-Set pkr, 1.78" ID profile and right hand release on-off tool set @ 9,700'.

Bough perfs 9,754 - 64, 9,782 - 84, 9,792 - 9,800, 9,810 - 22, and 9,866 - 80.

7 7/8" hole x 5 1/2" 15.5# & 17# J55 & N80 csg @ 9,925' cmt w/ 500 sx. TOC 7,340' TS. PBTD 9,892'



Continental St #1
Sec 18 10S - 34E
Lea Co., NM
November 18, 1998
Proposed Config

15" hole x 12 3/4" 48# csg @ 363' cmt w/ 350 sx to surf

2 3/8" fiberglass tbg landed on nickel plated double set pkr set @ 4,100' using a 1.78" profile and on-off tool.

11" hole x 8 5/8" 24# & 32#, J55 csg @ 4,045' cmt w/ 350 sx. TOC 2,188' FS (Calc)

Squeeze or circ cmt through 2 holes @ 4,100' to isolate 5 1/2" x 7 7/8" annulus.

Perf San Andres 4,692 - 4,700, 4,716 - 34, 4,776 - 86, 4,792 - 4,806, and 4,826 - 30 w/ 2 spf, 113 holes.

CIR set @ 5,400 w/ squeeze perfs @ 5,460 (2 holes). Squeeze w/ 30 sx to 3,000 psi, dumping 100' cmt on CIR.

Set CIBP @ 7,000 and spot 100' cmt on top.

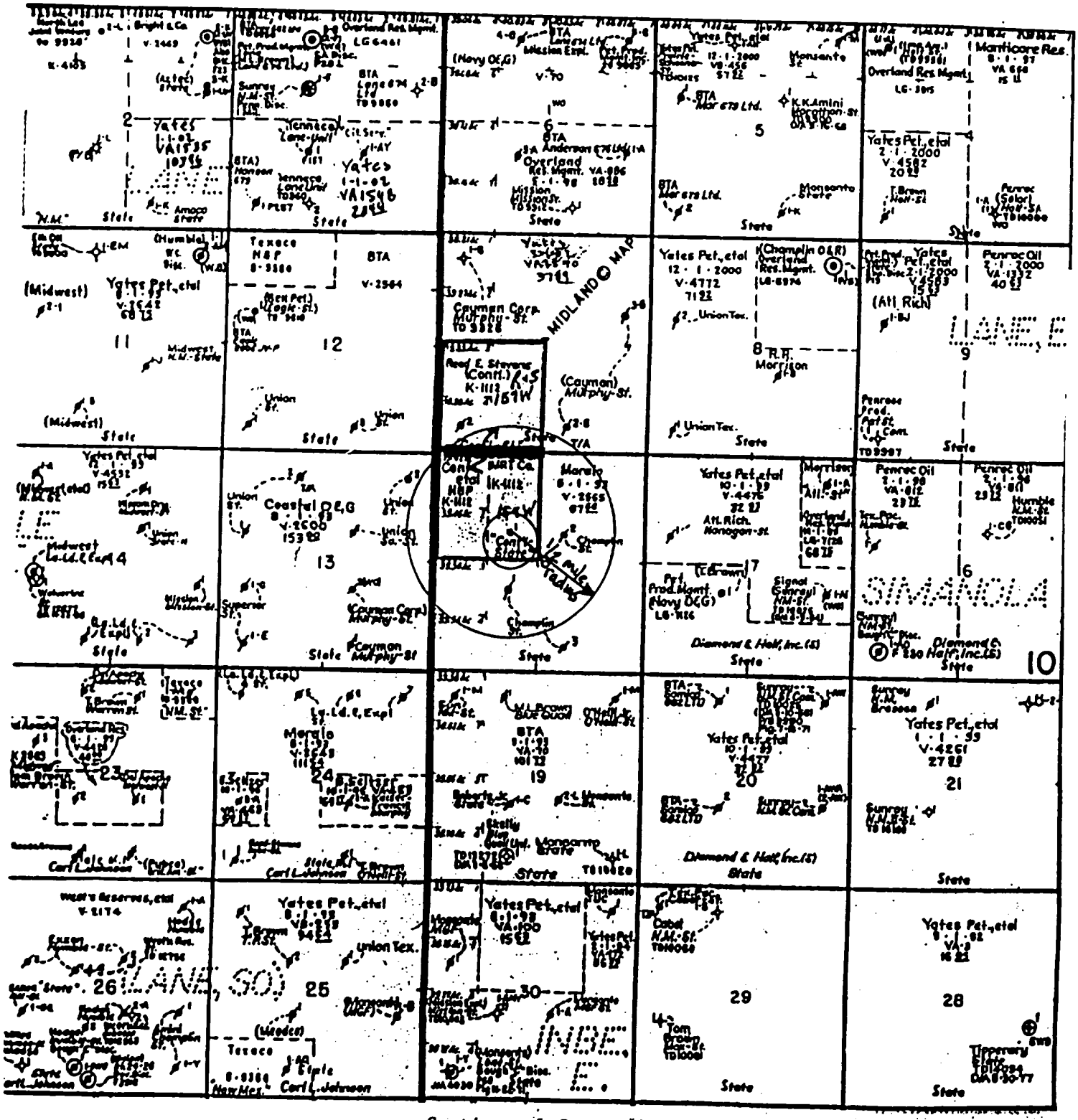
Csg collapsed @ 7,100'. Squeeze cmt interval w/ 40 sx cmt @ 1 BPM and 3,000 psi. Drill out and attempt to swedge csg. TOC @ 6,050' est.

2 3/8" 2,500 psi fiberglass tubing w/ nickel plated Baker Lok-Set pkr, 1.78" ID profile and right hand release on-off tool set @ 9,700'.

Bough perfs 9,754 - 64, 9,782 - 84, 9,792 - 9,800, 9,810 - 22, and 9,866 - 80.

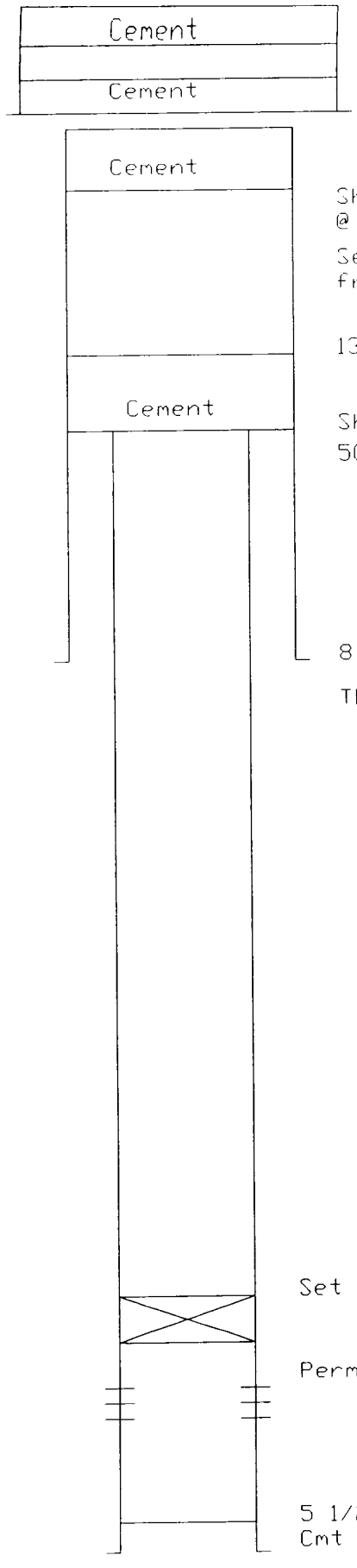
7 7/8" hole x 5 1/2" 15.5# & 17# J55 & N80 csg @ 9,925' cmt w/ 500 sx. TOC 7,340' TS. PBTD 9,892'

New Mexico Salt Water Disposal Company, Inc.
SWD Application
Area of Review
Form C-108, Item V
12/02/98



Continental State #1
1,976.6' FNL & 1,970.1' FWL
Section 18 T10S-R34E
Lea County, New Mexico

Champlin 18 St #1
Sec 18 10S - 34E
Lea Co., NM
March 11, 1998
Current Config



10 sx cmt surf plug

150 sx cmt plug
from 443 - 220

Shot 8 5/8" csg
@ 1,000 and pulled.

Set 100 sx cmt plug
from 1,050 - 950

13 3/8" csg @ 393' cmt w/ 425 sx to surf

Shot 5 1/2" csg @ 2,250 and pulled.
50 sx cmt plug from 2,250 - 2,150

8 5/8" csg @ 4,060' cmt w/ 800 sx.

TOC 3,010' by TS

Set CIBP @ 9,500 w/ 50' of cmt on top.

Permo Penn perfs 9,878 - 90

5 1/2" csg @ 9,910' w/ DV @ 5,408'. cmt 1st w/ 450 sx.
Cmt 2nd w/ 500 sx. TOC 2,450' (calc).

RECEIVED	
DISTRIBUTION	
U.S.	
LAND OFFICE	
OPERATOR	

Form C-105
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease: State [X] Fee [ ]

5. State Oil & Gas Lease No.: K-3105

1a. TYPE OF WELL

b. TYPE OF COMPLETION

OIL WELL [X] GAS WELL [ ] DRY [ ] OTHER

NEW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] OTHER

7. Unit Agreement Name:

8. Farm or Lease Name: State "18"

2. Name of Operator: Champlin Petroleum Company

9. Well No.: 1

3. Address of Operator: P. O. Box 872 Midland, Texas

10. Field and Pool, or Wildcat: Undesignated

4. Location of Well

UNIT LETTER K LOCATED 1980 FEET FROM THE South LINE AND 1980 FEET FROM THE West LINE OF SEC. 18 TWP. 10-S RGE. 34-E NMPM

12. County: Lea

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
3-7-68	4-26-68	5-1-68	4213 DF	4202

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
9910	-		→	0-9910	

24. Producing Interval(s), of this completion — Top, Bottom, Name: 9878 - 9890 Permo Penn

25. Was Directional Survey Made: No

26. Type Electric and Other Logs Run: Focused Log, Acoustilog, Minifocused Log, Temperature Survey

27. Was Well Cored: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	61	393	17"	425 sks. Class "C"	None
8 5/8"	24 & 32	4060	11"	600 sk. lite wate & 200 sks. type "H"	None
5 1/2"	17 & 20	9910	7 7/8"	300 sks. lite wate, 150 sks. type "H" & 500 sks type "C"	None

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 7/8"	9817	9810

31. Perforation Record (Interval, size and number): Producing Interval 9878-9890

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
9878-9890	500 gals. 15% Spearhead Acid

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
5-2-68	Flowing	Producing

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas—Oil Ratio
5-3-68	24	32/64		680	617	102	907/1

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)
275#	Sealed		680	617	102	49.2

34. Disposition of Gas (Sold, used for fuel, vented, etc.): Vented

Test Witnessed By: W.E. Williams

35. List of Attachments: Minifocused, Focused & Acoustilog Logs

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Wilton D. Randolph TITLE District Clerk DATE May 6, 1968

INSTRUCTIONS

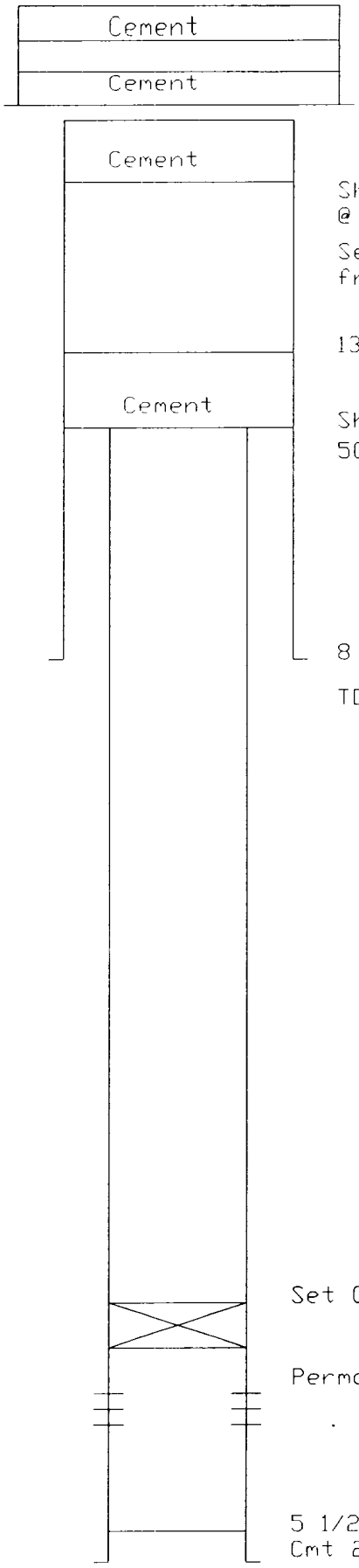
[redacted] filed with the appropriate District Office of the Commission not later than [redacted] days after the completion of any newly-drilled or [redacted] shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on lands where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico				Northwestern New Mexico			
T. Anhy	1810	T. Canyon		T. Ojo Alamo		T. Penn. "B"	
T. Salt	1900	T. Strawn		T. Kirtland-Fruitland		T. Penn. "C"	
B. Salt		T. Atoka		T. Pictured Cliffs		T. Penn. "D"	
T. Yates	2707	T. Miss		T. Cliff House		T. Leadville	
T. 7 Rivers		T. Devonian		T. Menefee		T. Madison	
T. Queen	3403	T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		T. Montoya		T. Mancos		T. McCracken	
T. San Andres	3975	T. Simpson		T. Gallup		T. Ignacio Qtzte	
T. Glorieta	5405	T. McKee		Base Greenhorn		T. Granite	
T. Paddock		T. Ellenburger		T. Dakota		T.	
T. Blinebry		T. Gr. Wash		T. Morrison		T.	
T. Tubb	6392	T. Granite		T. Todilto		T.	
T. Drinkard		T. Delaware Sand		T. Entrada		T.	
T. Abo	7755	T. Bone Springs		T. Wingate		T.	
T. Wolfcamp	8900	T.		T. Chinle		T.	
T. Penn.	9872	T.		T. Permian		T.	
T Cisco (Bough C)	9872	T.		T. Penn. "A"		T.	

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	400	400	Caliche, Sand and Shale				
400	1810	1410	Redbed				
1810	3885	2075	Anhydrite				
3885	7539	3654	Lime				
7539	8193	654	Shale & Lime				
8193	8762	569	Lime				
8762	8882	120	Lime, Shale & Chert				
8882	9017	135	Lime & Shale				
9017	9270	253	Lime				
9270	9403	133	Lime, Shale & Chert				
9403	9615	212	Lime				
9615	9715	100	Lime & Shale				
9715	9910	195	Lime				



10 sx cmt surf plug

150 sx cmt plug
from 449 - 350

Shot 8 5/8" csg
@ 891 and pulled.

Set 100 sx cmt plug
from (approx) 943 - 840

13 3/8" csg @ 393' cmt w/ 425 sx to surf

Shot 5 1/2" csg @ 2,395 and pulled.
50 sx cmt plug from 2,445 - 2,289

8 5/8" csg @ 4,104' cmt w/ 600 sx.

TOC 3,270' (est from #1well).

Set CIBP @ 9,800 w/ 35' of cmt on top.

Permo Penn perfs 9,880 - 92

5 1/2" csg @ 9,915' w/ DV @ 5,403'. cmt 1st w/ 500 sx.
Cmt 2nd w/ 500 sx. TOC 2,450' (calc).

Champlin 18 St #2
Sec 18 10S - 34E
Lea Co., NM
March 11, 1998
Current Config

[redacted]

Form C-105
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

JUN 18 11 37 AM '68

5a. Indicate Type of Lease: State [X] Fee [ ]

5. State Oil & Gas Lease No.: K-3405

7. Unit Agreement Name:

8. Farm or Lease Name: State "18"

9. Well No.: 2

10. Field and Pool, or Wildcat: Inbe - Permo Penn

12. County: Lea

a. TYPE OF WELL

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] OTHER

OIL WELL [X] GAS WELL [ ] DRY [ ] OTHER

2. Name of Operator: Champlin Petroleum Company

3. Address of Operator: P. O. Box 872, Midland, Texas 79701

UNDESIGNATED

4. Location of Well: UNIT LETTER G LOCATED 1980 FEET FROM THE North LINE AND 1980 FEET FROM THE East LINE OF SEC. 18 TWP. 10-S RGE. 34-E NMPM

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
5-5-68	6-7-68	6-12-68	4214 DF	4203

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
9915	9905		→	0-9915	

24. Producing Interval(s), of this completion — Top, Bottom, Name: 9880-9892 Bough "C"

25. Was Directional Survey Made: No

26. Type Electric and Other Logs Run: Acoustic Cement Bond and Gamma Ray Neutron

27. Was Well Cored: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	61#	393	17½"	425 sacks	None
8-5/8"	24# & 32#	4104	11 "	600 sacks	None
5-1/2"	20# & 17#	9915	7-7/8"	1000 sacks	None

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-3/8"	9860	9851

31. Perforation Record (Interval, size and number): 9880-9892 2-.42 holes/ft.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
9880-9892	500 gals. 15% HCL

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
6-12-68	Flowing	Producing

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas — Oil Ratio
6-15-68	24	32/64		441	512	123	1161

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)
155	Sealed		441	512	123	47°

34. Disposition of Gas (Sold, used for fuel, vented, etc.): Vented

Test Witnessed By: Wayne Sparkman

35. List of Attachments: Will send logs under separate cover.

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Wm. M. Randolph TITLE District Clerk DATE June 17, 1968

INSTRUCTIONS

to be filled with the appropr... District Office of the Commission not later than 20 days after the completion of any newly-drilled or ...ll. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests con... ...cluding drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall ... reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on ...nd, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico			Northwestern New Mexico		
T. Anhy 2032	T. Canyon		T. Ojo Alamo	T. Penn. "B"	
T. Salt 2100	T. Strawn		T. Kirtland-Fruitland	T. Penn. "C"	
B. Salt	T. Atoka		T. Pictured Cliffs	T. Penn. "D"	
T. Yates 2713	T. Miss		T. Cliff House	T. Leadville	
T. 7 Rivers	T. Devonian		T. Menefee	T. Madison	
T. Queen	T. Silurian		T. Point Lookout	T. Elbert	
T. Grayburg	T. Montoya		T. Mancos	T. McCracken	
T. San Andres 3985	T. Simpson		T. Gallup	T. Ignacio Qtzte	
T. Glorieta 5414	T. McKee		Base Greenhorn	T. Granite	
T. Paddock	T. Ellenburger		T. Dakota	T.	
T. Blinebry	T. Gr. Wash		T. Morrison	T.	
T. Tubb 6900	T. Granite		T. Todilto	T.	
T. Drinkard	T. Delaware Sand		T. Entrada	T.	
T. Abo 7764	T. Bone Springs		T. Wingate	T.	
T. Wolfcamp 8300	T.		T. Chinle	T.	
T. Penn. 9873	T.		T. Permian	T.	
T Cisco (Bough C) 9873	T.		T. Penn. "A"	T.	

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	2523	2523	Redbeds				
2523	3020	497	Anhydrite & Salt				
3020	3910	890	Anhydrite				
3910	7647	3737	Lime				
7647	7902	255	Lime & Shale				
7902	8263	361	Shale				
8263	8527	264	Shale & Lime				
8527	8984	457	Lime				
8984	9112	128	Lime & Chert				
9112	9570	458	Shale & Lime				
9570	9619	49	Lime				
9619	9915	296	Lime & Shale				

ROSWELL GEOLOGICAL SOCIETY SYMPOSIUM

Author: Symposium Committee
Affiliation: Roswell Geological Society
Date: November 1966

Field Name: Flying M (San Andres)
Location: T-9-S, R-33-E
County & State: Lea County, New Mexico

Discovery Well: Coastal States Gas Producing Company #1 Skelly State
SE/4 NW/4 Section 21, T-9-S, R-33-E

Exploration Method Leading to Discovery: Seismic & subsurface data

Pay Zone:
Formation Name: San Andres
Depth & Datum Discovery Well: 4550 (-175)
Lithology Description: Gray to gray-tan to brown, finely crystalline dolomite, with interstitial and solution porosity; anhydritic and algal-oolitic in part; some evidence of fracturing is present. Porosity zones are thin streaks within the gross pay interval.
Approximate average pay: 100 gross 15 net Productive Area 3000 acres

Type Trap: Stratigraphic, with secondary solution porosity and fractures; Loses porosity and permeability updip and produces water downdip.

Reservoir Data:
12.9 % Porosity, 7.5 Md Permeability, 25 % Sw, ? % So
Oil: Average gravity 19.3° API
Gas:
Water: 91,940 Na+K, 2800 Ca, 760 Mg, 146,000 Cl, 2,850 SO_4, 488 CO_2, or HCO_3, 11 Fe, all in mg./liter
Specific Gravity 1.11 Resistivity .047 ohms @ 75 °F
Initial Field Pressure: 1466 psi @ 4550 (-175) datum Reservoir Temp. 106 °F
Type of Drive: Weak gas expansion

Produced Water

Normal Completion Practices: Set casing through pay, perforate and stumulate with small acid and large oil-frac or water-frac treatment. Perforation density is 2 SPF but will vary with operators.

Type completion: Pumping
Normal Well Spacing 80 Acres

Deepest Horizon Penetrated & Depth: Mississippian limestone 11,820 (-7447)

Other Producing Formations in Field: Abo 8600 (-4220); Bough "C" 9050 (-4670)

Production Data:

YEAR	TYPE	No. of wells @ yr. end		PRODUCTION OIL IN BARRELS GAS IN MMCF		YEAR	TYPE	No. of wells @ yr. end		PRODUCTION OIL IN BARRELS GAS IN MMCF	
		Prod.	S.I.or Abd.	ANNUAL	CUMULATIVE			Prod.	S.I.or Abd.	ANNUAL	CUMULATIVE
1964	OIL	27		179,831			OIL				
	GAS			6,250			GAS				
1965	OIL	35		524,809	704,640		OIL				
	GAS			137,164	143,414		GAS				
*1966	OIL	39		304,658	1,009,298		OIL				
	GAS			138,545	281,959		GAS				
	OIL						OIL				
	GAS						GAS				

* Production to 9/1/66.