CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS

Operator: NM Salt Water Disp Co. Well: Contreras St No 1

Contact: _____ Title: _____ Phone: _____

DATE IN _____ RELEASE DATE _____ DATE OUT _____

Proposed Injection Application is for: ___ **WATERFLOOD** ___ Expansion ___ Initial

Original Order: R- _____ ___ Secondary Recovery ___ Pressure Maintenance

SENSITIVE AREAS X **SALT WATER DISPOSAL** ___ Commercial Well

___ WIPP ___ Capitan Reef

Data is complete for proposed well(s)? ___ Additional Data Req'd _____

AREA of REVIEW WELLS

2 Total # of AOR 2 # of Plugged Wells

___ Tabulation Complete ___ Schematics of P & A's

___ Cement Tops Adequate ___ AOR Repair Required

INJECTION FORMATION

Injection Formation(s) _____ Compatible Analysis _____

Source of Water or Injectate _____

PROOF of NOTICE

___ Copy of Legal Notice ___ Information Printed Correctly

___ Correct Operators ___ Copies of Certified Mail Receipts

___ Objection Received ___ Set to Hearing _____ Date

NOTES: _____

APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL? ___

COMMUNICATION WITH CONTACT PERSON:

1st Contact: ___ Telephoned ___ Letter _____ Date Nature of Discussion _____

2nd Contact: ___ Telephoned ___ Letter _____ Date Nature of Discussion _____

3rd Contact: ___ Telephoned ___ Letter _____ Date Nature of Discussion _____

SWD 5/1/98

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

706

16

April 13, 1998

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

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

Ladies & Gentlemen:

Enclosed is our application for authorization to inject into the subject well. The land owner and offset operators have received a copy of the application. Please process for administrative approval.

If you should have any questions, please advise.

Sincerely,

NEW MEXICO SALT WATER DISPOSAL COMPANY, INC.

John C. Maxey, Jr.
Petroleum Engineer

JCM/sr/jcmltrs/ocdcon1

Orig: OCD Santa Fe & 1 xc
xc: OCD Hobbs

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

FORM C-108
Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: 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 Petroleum Engineer

Signature: John C. Maxey Date: 4-7-98

* 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 applicati
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
April 7, 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"	7,340' Temperature Survey

3. 2 3/8" 2,500 psi fiberglass tubing latched into a packer at 9,650'.

4. Baker Lok-set packer set at 9,650' 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 Bough formation in the Vada Penn field.

2. The injection interval is located from 9,754' to 9,880', 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. There are no other zones that have been perforated in this wellbore.

5. The next higher interval that produces in the area is the Abo with the top being located at approximately 7,750'. The next lower interval of production in the area is the Devonian with a top of approximately 13,400'.

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 2,000 BWPD and 5,000 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. The proposed injection zone was productive of oil and gas therefore a chemical analysis of the disposal zone formation water is not necessary per Form C-108.

VIII. The proposed injection zone the Bough formation is a white to light tan limestone having intercrystalline porosity. Porosity ranges from 5% to 10% using an Acoustic Velocity log run in 1968. The interval proposed for injection is 126' with the top of the Bough formation located at 9,734'. 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 5,000 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.

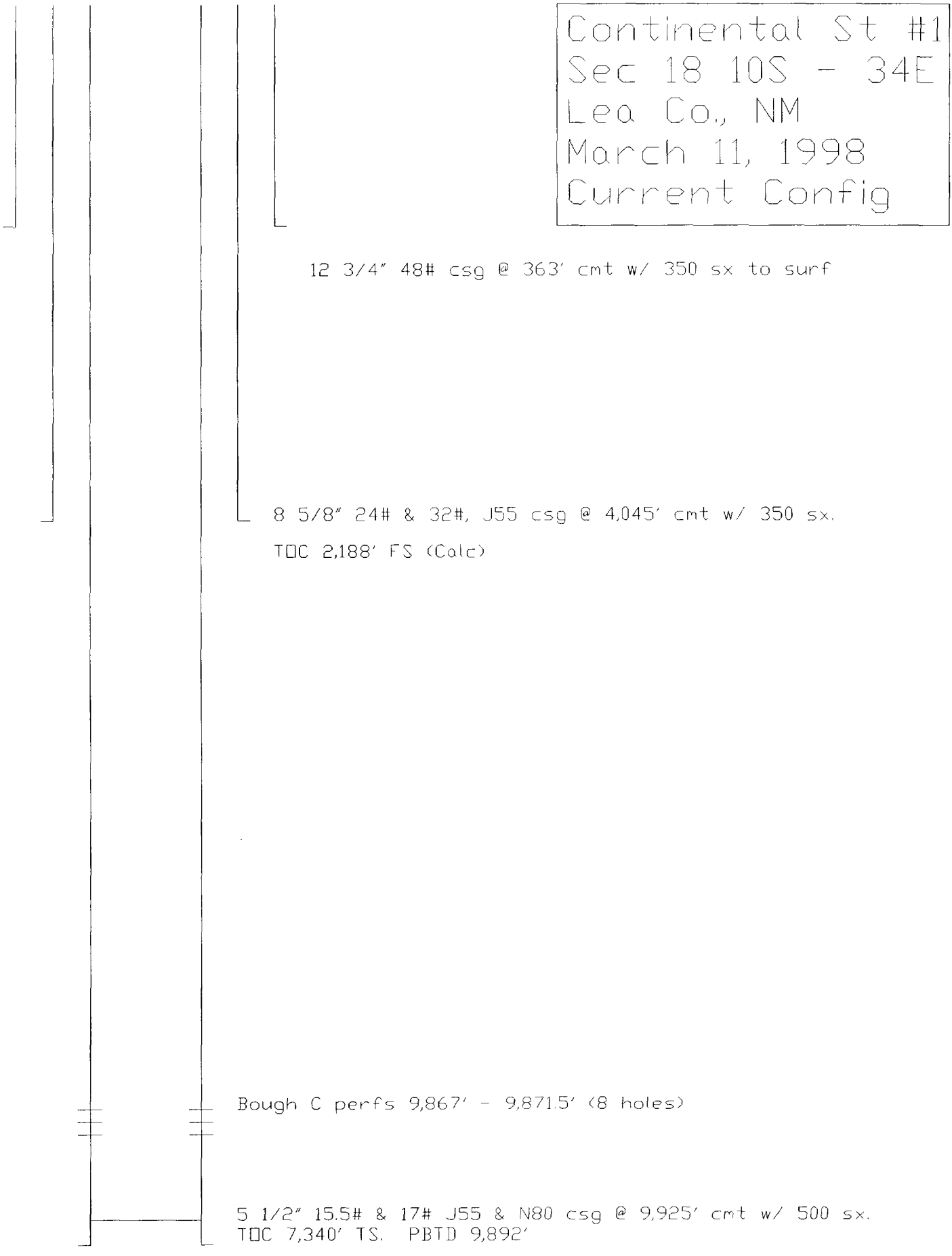
Land Owner:
Commissioner of Public Lands
State Land Office
P. O. Box 1148
Santa Fe, New Mexico 87504-1148

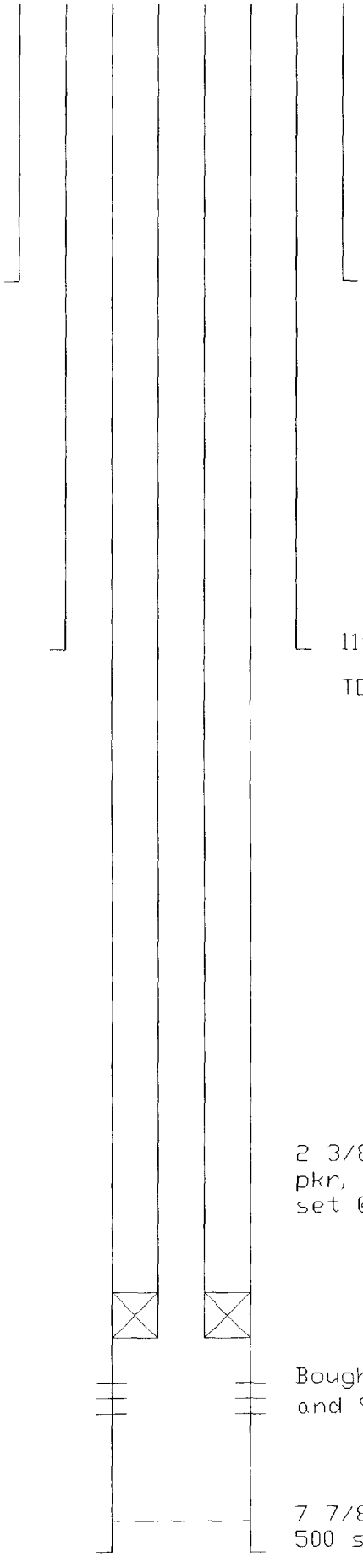
Leasehold Operators:
Yates Petroleum
Attn: Land Manager
105 S. 4th
Artesia, New Mexico 88210

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
March 11, 1998
Current Config
12 3/4" 48# csg @ 363' cmt w/ 350 sx to surf
8 5/8" 24# & 32#, J55 csg @ 4,045' cmt w/ 350 sx.
TOC 2,188' FS (Calc)
Bough C perfs 9,867' - 9,871.5' (8 holes)
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
March 11, 1998
Proposed Config

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

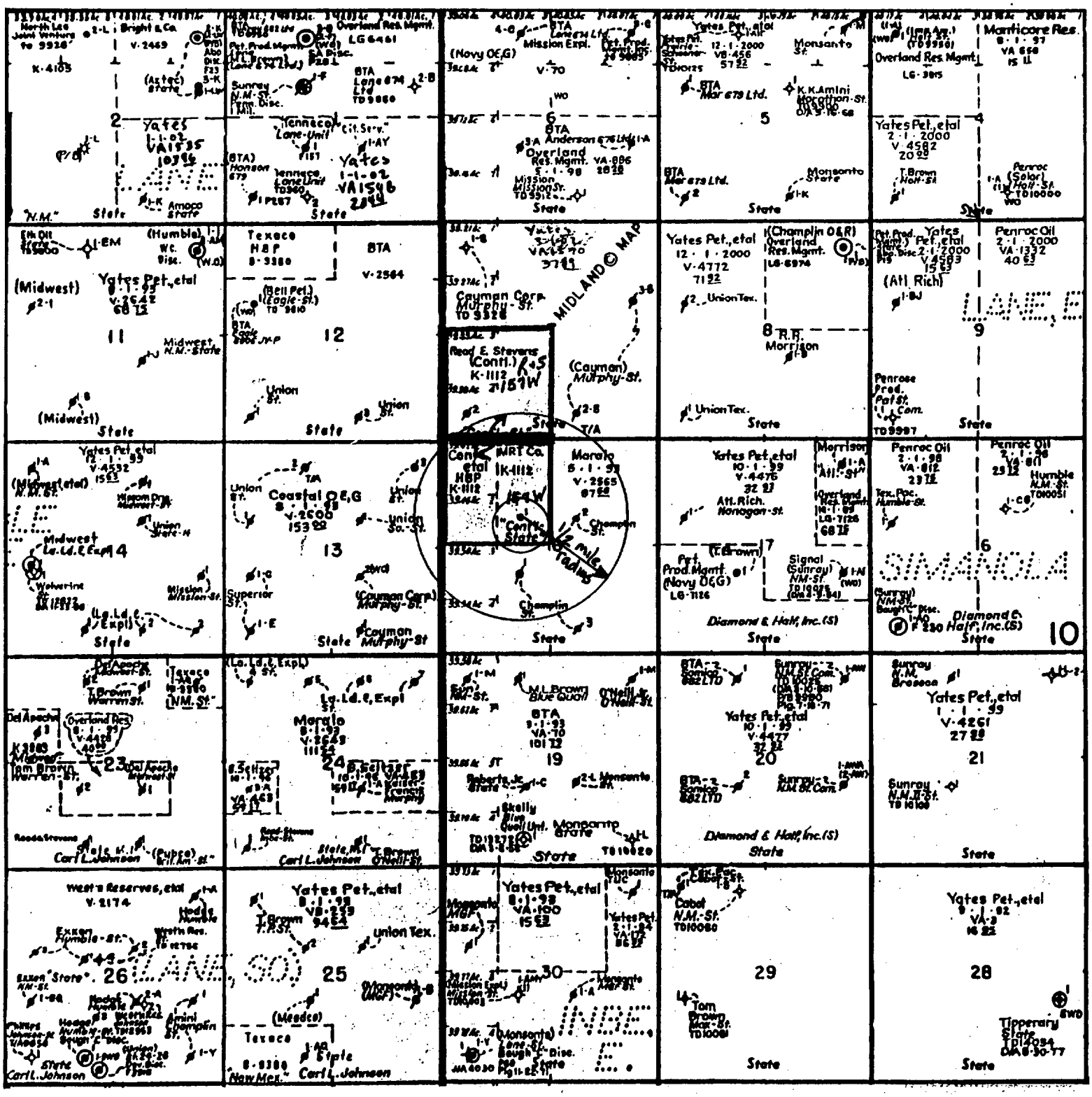
11" hole x 8 5/8" 24# & 32#, J55 csg @ 4,045' cmt w/ 350 sx.
TOC 2,188' FS (Calc)

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 @ 9,650'.

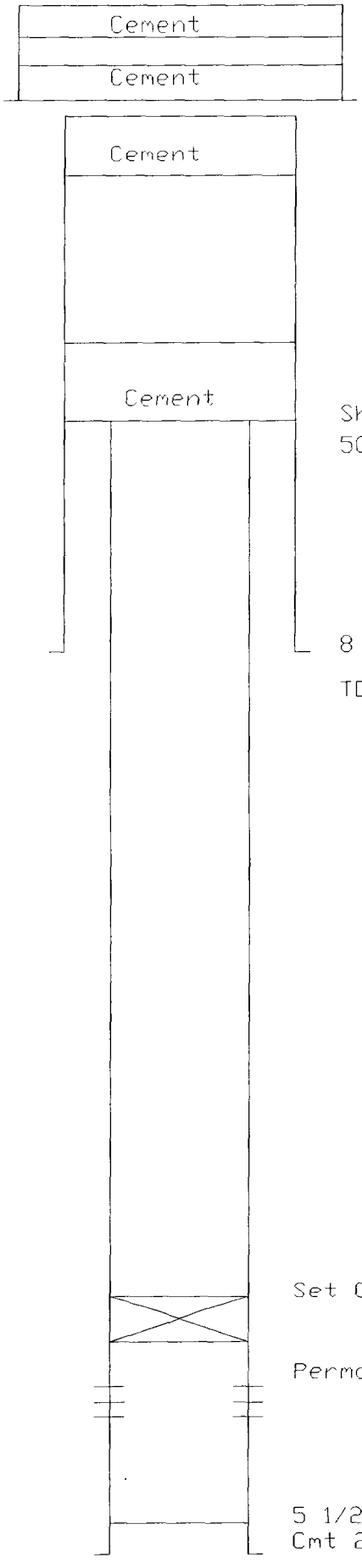
Bough perfs 9,754 - 64, 9,782 - 84, 9,792 - 9,800, 9,810 - 22, and 9,866 - 80.

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
3/12/98



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



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

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

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).

ECEIVED		
UTION		
.S.		
ND OFFICE		
PERATOR		

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

b. TYPE OF COMPLETION — 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 Curtis M. Randolph TITLE District Clerk DATE May 6, 1968

INSTRUCTIONS

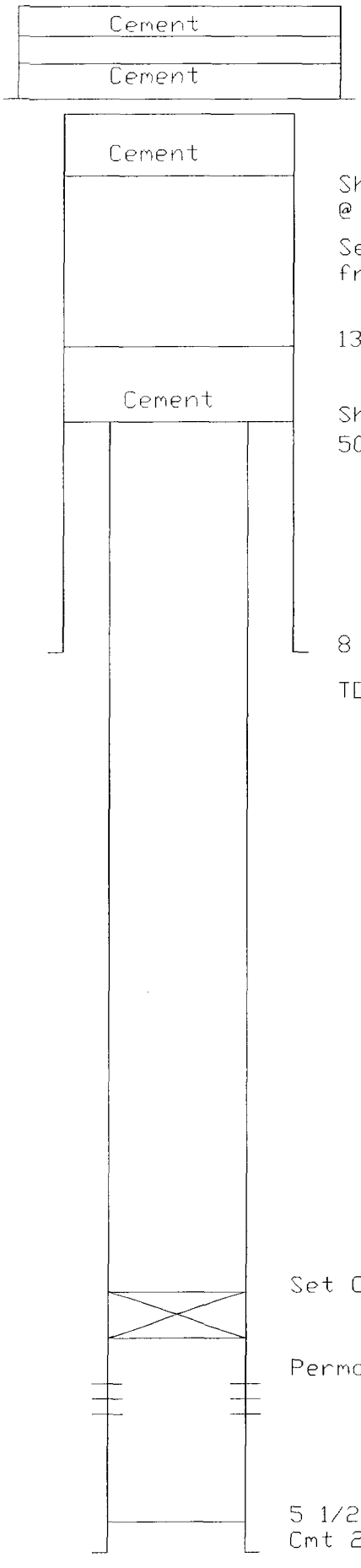
filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests con- drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall ied. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on 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	6892	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

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

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] OTHER

b. TYPE OF COMPLETION: 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.: 2

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

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

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

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
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 Walter M. Randolph TITLE District Clerk DATE June 17, 1968

INSTRUCTIONS

...to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or ...ell. 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				

BAKER PETROLITE
A Baker Hughes company

Water Analysis Report by Baker Petrolite

SALT WATER DISPOSAL SYSTEM

SALT WATER DIPP
I 28
WELLHEAD

Account Manager
STEVE STROUD

Summary		Analysis of Sample 54722 @ 25°C					
Sampling Date	2/20/98	*Anions*	*mg/l*	*meq/l*	*Cations*	*mg/l*	*meq/l*
Analysis Date	3/2/98	**Chloride**	**53996**	**1523**	**Sodium**	**29575**	**1286**
Analyst	CHRIS BRASHER	**Bicarbonate**	**407**	**6.67**	**Magnesium**	**775**	**63.8**
		Carbonate	**0.00**	**0.00**	**Calcium**	**3802**	**190**
TDS (mg/l or g/m³)	90633.8	**Sulfate**	**1361**	**28.3**	**Strontium**	**108**	**2.47**
Density (g/cm³ or tonne/m³)	1.059	Phosphate	N/A	N/A	**Barium**	**0.60**	**0.01**
Anion/Cation Ratio	1.00	Borate	N/A	N/A	**Iron**	**6.00**	**0.21**
		Silicate	N/A	N/A	Potassium	603	15.4
Chemical Treatment					Aluminum	N/A	N/A
Sample Condition		Hydrogen Sulfide		0	Chromium	N/A	N/A
					Copper	N/A	N/A
		pH at time of sampling		6.10	Lead	N/A	N/A
		pH at time of analysis			Manganese	N/A	N/A
		pH used in Calculations		**6.10**	Nickel	N/A	N/A

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000bbl									
Temp.	*Gauge Press.*	*Calcite $CaCO_3$*		*Gypsum $CaSO_4 \cdot 2H_2O$*		*Anhydrite $CaSO_4$*		*Celestite $SrSO_4$*		*Barite $BaSO_4$*		*CO_2 Press.*
°F	*psi*	*Index*	*Amount*	*Index*	*Amount*	*Index*	*Amount*	*Index*	*Amount*	*Index*	*Amount*	*psi*
80	0.	0.04		0.22		0.25		0.02	2.43	0.87	0.29	2.51
100	0.	0.06	5.47	0.27		0.23		0.00	0.49	0.69	0.27	3.17
120	0.	0.17	14.96	0.30		0.18		0.00	0.27	0.53	0.24	3.86
140	0.	0.29	24.45	0.32		0.11		0.01	1.47	0.40	0.20	4.55

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO_2 pressure is in fact the CO_2 fugacity calculated from the water analysis. It may differ from the true CO_2 partial pressure.

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

April 1 1998

and ending with the issue dated

April 1 1998

Kathi Bearden

Publisher

Sworn and subscribed to before

me this 1st day of

April 1998

Jodi Henson

Notary Public.

My Commission expires
October 18, 2000
(Seal)

LEGAL NOTICE
April 1, 1998

New Mexico Salt Water Disposal Company, Inc. will apply for authority to convert the Continehtal State #1 well located 1976.6' FNL & 1970.1' FWL of Section 18 T10S-R34E of Lea County, New Mexico into a salt water disposal well. Water produced from oil & gas leases west of Crossroads, New Mexico will be disposed of into the Bough formation from 9,754' to 9,880'. The maximum daily injection rate will be 5,500 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.
Petroleum Engineer
Read & Stevens, Inc.
P. O. Box 1518
Roswell, New Mexico 88202
505/622-3770
#15835

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 01519272

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

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.
1. ☐ Show to whom delivered, date, and addressee's address. *(Extra charge)* 2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:

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

SANTA FE NM APR 09 1998

4. Article Number
Z 263 896 081

Type of Service:
☐ Registered ☐ Insured
XXX Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Address
X

6. Signature — Agent
X

7. Date of Delivery

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

PS Form **3811**, Mar. 1988 ★ U.S.G.P.O. 1988-212-865 **DOMESTIC RETURN RECEIPT**

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.
1. ☐ Show to whom delivered, date, and addressee's address. *(Extra charge)* 2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:

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

4. Article Number
P 502 282 153

Type of Service:
☐ Registered ☐ Insured
XXX Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Address
X

6. Signature — Agent
X

7. Date of Delivery

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

PS Form **3811**, Mar. 1988 ★ U.S.G.P.O. 1988-212-865 **DOMESTIC RETURN RECEIPT**

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1. ☐ Show to whom delivered, date, and addressee's address. *(Extra charge)* 2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:

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

4. Article Number
P 502 282 152

Type of Service:
☐ Registered ☐ Insured
XX Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Address
X APR 08 1998

6. Signature — Agent
X LUIS SOSA

7. Date of Delivery
APR 08 1998

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

PS Form **3811**, Mar. 1988 ★ U.S.G.P.O. 1988-212-865 **DOMESTIC RETURN RECEIPT**