

229535341

SWD

11/5/02

DATE IN	PURPOSE	ENGINEER	LOGGED IN	TYPE	APP NO.
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms

[NSL-Non-Standard Location] [NSP-Non-Standard Production Unit] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

- [D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
 [B] ☒ Offset Operators, Leascholders or Surface Owner
 [C] ☒ Application is One Which Requires Published Legal Notice
 [D] ☒ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
 [E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,
 [F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Edith W Seay
 Print or Type Name

Edith W Seay
 Signature

Agent
 Title

11/4/2002
 Date

seay.04@blm.nm.gov
 e-mail Address

229535341

SWD

11/5/02

October 14, 2002

NMOCD Engineering
ATTN: Will Jones
Box 6429
1220 S. Saint Francis Drive
Santa Fe, NM 87504

OCT 21

RE: Pride Energy Co. - C-108
South Four Lakes #6

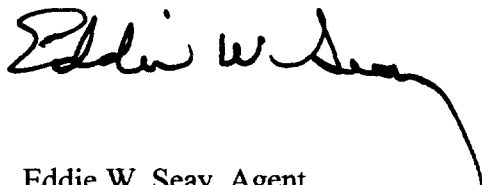
(30-025-01834)

Mr. Jones:

As we discussed, this application is to expand the interval to include the Wolfcamp formation. The well was previously approved under order #R-3306. We know that the cement tag is not high enough on this well, so we plan to perforate the casing and tie cement to intermediate casing after permit is approved. If approved, we will file C-103 before work is performed and before any injection starts, as required.

If you have any questions, please call.

Sincerely,



Eddie W. Seay, Agent
601 W. Illinois
Hobbs, NM 88242
(505)392-2236



STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

FORM C-108 Revised 4-1-98

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance
☒ Disposal _____ Storage
Application qualifies for administrative approval? ☒ Yes _____ No

II. OPERATOR: Pride Energy Company

ADDRESS: Box 701602 Tulsa, OK 74170-1602

CONTACT PARTY:

John Pride

PHONE: (918)524-9200

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:
R-3306

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 geologic data on the injection zone including appropriate lithologic detail, geologic 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 sources 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 sources 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: Eddie W. Seay TITLE: Agent

SIGNATURE: Eddie W. Seay DATE: _____

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

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate 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 the 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:

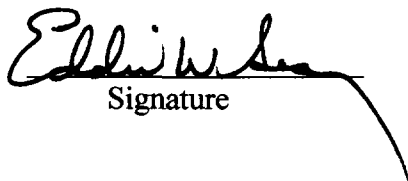
(1) The name, address, phone number, and contact party for the applicant;

(2) The intended purpose of the injection well; with the exact location of single wells or the Section,

ATTACHMENT TO APPLICATION C-108

Pride Energy Company
South Four Lake Unit #6
Unit I, Sect. 2, T. 12 S., R. 34 E.
Lea Co., NM

- III. Well data information sheets attached.
- IV. No.
- V. Map attached.
- VI. List of wells and data attached.
- VII. Proposed Operation
 - (1) Average daily injection volume is 1500 bls. per day.
 - (2) Closed system.
 - (3) The average injection pressure is 500 psig with a maximum injection pressure of 1000 psig.
 - (4) Produced water from Pride's own production.
 - (5) Attached analysis.
- VIII. The proposed disposal formation is interbedded shale and limestone.
The primary geologic name is Wolfcamp and also the Penn. The Wolfcamp and Penn are from 9100' to 10300'.
The fresh water formation in this area is the Ogallala which ranges in thickness from top of H2O at 60' to the base of fresh water at 240'.
- IX. Acid as needed.
- X. Previously submitted.
- XI. Attached.
- XII. I, Eddie W. Seay, 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 pertaining to this well.


Signature

10/15/2002
Date

XIII. Proof of Notices attached.

XIV. Signed Application.

INJECTION WELL DATA SHEET

OPERATOR: Pride Energy CompanyWELL NAME & NUMBER: South Four Lakes Unit #6WELL LOCATION: 1980/S 660/EI

FOOTAGE LOCATION

UNIT LETTER

2

SECTION

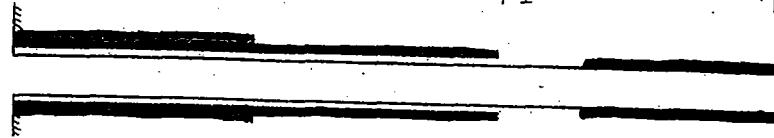
12 S

TOWNSHIP

34 E

RANGE

WELLBORE SCHEMATIC



133 " casing set at 401 ' with 375 sx of 0 cement
Hole size 17 1/4 " circulated

95 " casing set at 415 1/2 ' with 2300 sx of 0 cement
Hole size 12 1/4 " circulated

7 " casing set at 12855 ' with 1180 sx of 0 cement
Total depth 12855 ' Hole size 12 1/4 " TOC 9460

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17 1/4 Casing Size: 13 3/8Cemented with: 375 sx. or ft³Top of Cement: Surface Method Determined: Circulated
Intermediate CasingHole Size: 12 1/4 Casing Size: 9 5/8Cemented with: 2300 sx. or ft³Top of Cement: Surface Method Determined: Circulated
Production CasingHole Size: 8 3/4 Casing Size: 7Cemented with: 1180 sx. or ft³Top of Cement: 9460 Method Determined: TSTotal Depth: 12855

New Perfs

Injection Interval

9170

feet to

9500Wolfcamp

(Perforated) or Open Hole; indicate which)

Existing perfs 9901 to 10280 Permitted

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic Coated
 Type of Packer: Baker Model B on loc Set
 Packer Setting Depth: 9100
 Other Type of Tubing/Casing Seal (if applicable): NONE

Additional Data

1. Is this a new well drilled for injection? Yes X No

If no, for what purpose was the well originally drilled?

Producing oil well

2. Name of the Injection Formation: existing is Penn - New perfs in Wolfcamp
 3. Name of Field or Pool (if applicable): South Four Lakes
 4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. yes

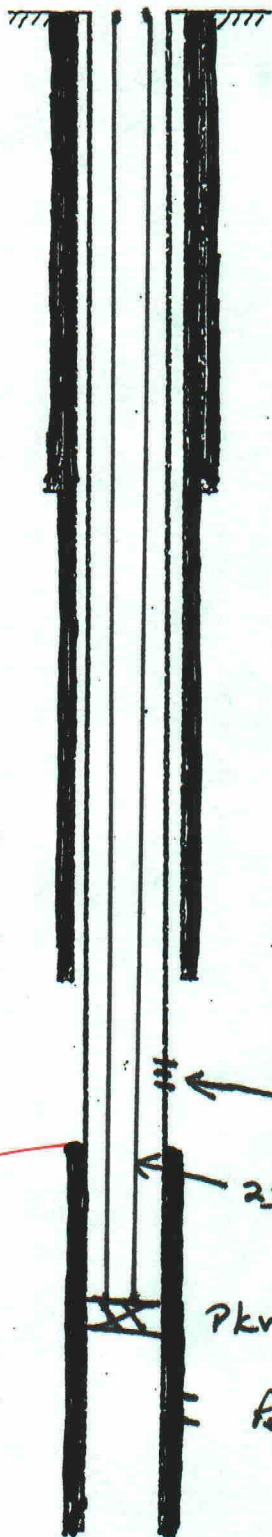
From 9901 to 10280

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

the Abo is above at 7738'

the Mississippi is below at 11953'

OPERATOR	Pride Energy Company		DATE
LEASE	South Four Lakes	WELL No. 6	LOCATION Unit I Set 2 T12 R34



13 3/8 " casing set at 401 ' with 375 sx of C cement

Hole size 17 1/4 " circulated

9 5/8 " casing set at 4153 ' with 2300 sx of C cement

Hole size 12 1/4 " circulated

9460'

2 7/8 Tubing

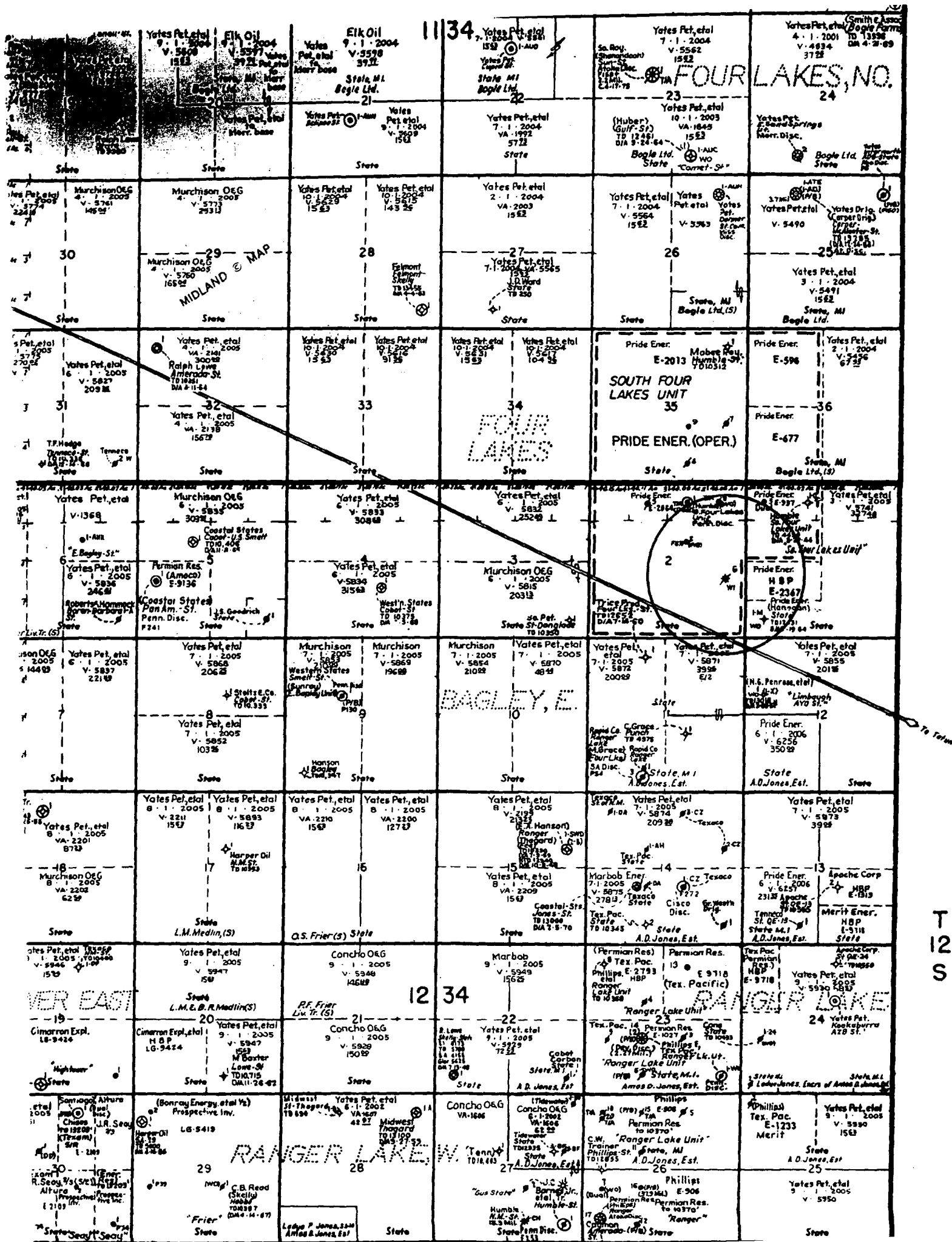
PKR set 9770

Perf 9901' - 10280'

New perfs. to be added 9130-9500 if permit approved. Pride will perforate 7 in casing at ~~9100~~ ⁹⁴⁰⁰ and tie back to 9 5/8 at 4153.

7 " casing set at 12855 ' with 1180 sx of C cement

Total depth 12855 ' Hole size 8 3/4 " TOC 9460



LIST OF OFFSET WELLS

Pride Energy Co.

Well #8, Unit A, Sect. 2, T. 12 S., R. 34 E., 660/N 990/E



HOLE	CSG	SET	CEMENT	
17 1/4"	13 3/8"	406'	500 sx	Circ
10 3/4"	8 5/8"	4170'	1600 sx	TOC 3200'
7 7/8"	5 1/2"	12845'	2445 sx	TOC 3800'

Pride Energy Co.

Well #2, Unit G, Sect. 2, T. 12 S., R. 34 E., 1980/N 1980/E

HOLE	CSG	SET	CEMENT	
17 1/2"	13 3/8"	326'	325 sx	Circ
12 1/4"	9 5/8"	4200'	2300 sx	Circ
7 7/8"	5 1/2"	12924'	1925 sx	TOC 5125'



Pride Energy Co.

Well #1, Unit B, Sect. 2, T. 12 S., R. 34 E., 660/N 1980/E

HOLE	CSG	SET	CEMENT	
17 1/2"	13 3/8"	389'	325 sx	
12 1/4"	9 5/8"	4220'	3000 sx	
7 7/8"	5 1/2"	11417'	2350 sx	TOC 2325' TS



Pride Energy Co.

Well #3, Unit D, Sect. 1, T. 12 S., R. 34 E., 660/N 660/W

HOLE	CSG	SET	CEMENT	
17 1/4"	13 3/8"	378'	325 sx	Circ
12 1/4"	9 5/8"	4200'	2500 sx	Circ
8 3/4"	7"	12874'	2900 sx	TOC 5708'



Pride Energy Co.

Well #1, Unit M, Sect. 1, T. 12 S., R. 34 E., 660/S 660/W
P & A

PLUGS

25 sx at 11030'
25 sx at 9920'
25 sx at 9205'
25 sx at 7030'
25 sx at 5595'
25 sx at 4175' shoe of 9 5/8"
25 sx at 1050' stub of 9 5/8"
25 sx at 300' Base of Surface
10 sx at surface plug.

CSG	SET	CEMENT
13 3/8"	306'	
9 5/8"	4164	450 sx
8 3/4" hole to 12324'		

Well schematic attached.

Circ

✓
O/H read
Hole still shows THW
well to be active

Exxon Corp.

South 4 Lakes Unit

Well #5, Unit C, Sect. 2, T. 12 S., R. 34 E., 660/N 1980/W
P & A

CSG	SET	CEMENT
13 3/8"	375'	400 sx
9 5/8"	4200'	2400 sx
5 1/2"	10456'	350 sx

TD 13020'

Plug back to 10456'

See attached schematic.

Circ

Circ

TOC 8205'

OPERATOR <u>Pride Energy Co</u>		DATE <u>DA</u>	
LEASE <u>South Four Lake</u>	WELL No. <u>1</u>	LOCATION <u>M</u> <u>set 1</u> <u>T12</u> <u>R34</u>	

Plug at surface

Plug at
surface
shoe

13 $\frac{3}{8}$ " casing set at 306 ' with 300 sx of C cement

Hole size 17 $\frac{1}{4}$ " cin

Stub plug 1050

Plug at shoe

Plug 5595

Plug 7080 -

9 $\frac{1}{2}$ " casing set at 4164 ' with 450 sx of C cement

Total Depth 12324 ' Hole size 12 $\frac{1}{4}$ "

8 $\frac{3}{4}$ hole to TD and plugged

plug 9200

plug 9920

- Plug 11030

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U.S.G.S.

LAND OFFICE

OPERATOR

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease

State ☒

Fee [

5. State Oil & Gas Lease No.

E-2064

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. Unit Agreement Name
2. Name of Operator HUMBLE OIL & REFINING COMPANY		8. Farm or Lease Name SOUTH FOUR LAKES
3. Address of Operator P.O. BOX 1600, MIDLAND, TEXAS 79701		9. Well No. 5
4. Location of Well UNIT LETTER C 660 FEET FROM THE NORTH LINE AND 1980 FEET FROM THE WEST LINE, SECTION 2 TOWNSHIP 12-S RANGE 34-E NMPM.		10. Field and Pool, or Wildcat FOUR LAKES PENN
15. Elevation (Show whether DF, RT, GR, etc.) 4160 DF		12. County LEA

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input checked="" type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input type="checkbox"/>	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1703.

- HYDRO TEST TUBING OUT TO DISCARD BAD JOINTS.
- RUN TBG. BACK OPEN ENDED AND PLACE 20 SX CLASS H CEMENT PLUG FROM 9825-9945. PUMP ALL PLUGS DOWN WITH PRODUCED WATER CONTAINING 25 SX GELL/100BBLs. PULL TBG.
- ESTABLISH FREE POINT AND CUT OFF 5 1/2" CSG. ABOVE THE CEMENT AT ABOUT 8205'. PULL CSG.
- RUN TBG AND PLACE PLUGS AS FOLLOWS
40 SX ACROSS THE 5 1/2" CSG. CUT
40 SX 5400-5500 ABOVE SAN ANGELO
40 SX 4165-4265 ACROSS 9 5/8" CSG. SEAT AND BELOW SAN ANDRES
10 SX SURFACE
- PLACE WELL MARKER AND CLEAN UP LOCATION.

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

SIGNED <u>James H. [Signature]</u>	TITLE <u>UNIT HEAD</u>	DATE <u>11-27-72</u>
APPROVED BY <u>Dr. D. D. [Signature]</u>	TITLE <u></u>	DATE <u>NOV 29 1972</u>
CONDITIONS OF APPROVAL, IF ANY:		

NO. OF COPIES RECEIVED		
DISTRIBUTION		
SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease	State <input checked="" type="checkbox"/> Fee
5. State Oil & Gas Lease No.	E-2064

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER-	7. Unit Agreement Name
2. Name of Operator EXXON CORPORATION	8. Farm or Lease Name SOUTH FOUR LAKES U
3. Address of Operator P.O. Box 1600, MIDLAND, TEXAS 79701	9. Well No. 5
4. Location of Well UNIT LETTER C 660 FEET FROM THE NORTH LINE AND 1980 FEET FROM THE WEST LINE, SECTION 2 TOWNSHIP 12-S RANGE 34-E NMPM.	10. Field and Pool, or Wildcat FOUR LAKES PEN
15. Elevation (Show whether DF, RT, GR, etc.) 4160 DF	12. County LEA

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input type="checkbox"/>	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any prop work) SEE RULE 1703.

SET DR PLUG IN BAKER MODEL D PKR AT 9899, CIRCULATED WEI
W/200 BBL SALT GEL MUD AND SPOT 20 SX CEMENT PLUG.
RAN FREE POINT INDICATOR, 5 1/2" CSG STUCK AT 5165. SHOT 5 1/2
CSG WITH JET CUTTER AT 5125.
SPOTTED 40 SX PLUG THRU TBG AT 5128, PULLED TBG TO 4265
AND SHOT 40 SX PLUG. REMOVED BOP, MIXED 10 SX
SURFACE PLUG, INSTALLED WELL MARKER AND CLEANED UP
LOCATION.

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

SIGNED

TITLE

UNIT HEAD

DATE

1-29-73

APPROVED BY

TITLE

DATE

CONDITION OF APPROVAL, IF ANY:

OPERATOR	Exxon Corp		DATE	1973 PA
LEASE	South four Lakes	WELL No	5	LOCATION C. Sect 2 T12 R 34

440/N 1980/W

surface plug

13 $\frac{3}{8}$ " casing set at 375 ' with 400 sx of C cement

Hole size 17 $\frac{1}{4}$ " Cin

Shoe
plug

9 $\frac{5}{8}$ " casing set at 4200 ' with 2400 sx of C cement

40 sy
plug

Hole size 12 $\frac{1}{4}$ " Cin

3 $\frac{1}{2}$ stub 5125 40 sy plug

plug at 9899

5 $\frac{1}{2}$ " casing set at 10454 ' with 350 sx of C cement

Plug

Total depth 13020 ' Hole size 7 " TBC 8205

LENGTH OF TIME SHUT IN _____

PLEASE INDICATE BELOW FORMATION TOPS (In Conformance With Geographical Section Of State):

SOUTHEASTERN NEW MEXICO		NORTHWESTERN NEW MEXICO	
T. ANHY _____ 2035	T. DEVONIAN _____ 12582	T. OJO ALAMO _____	
T. SALT _____ 2140	T. SILURIAN _____	T. KIRTLAND-FRUITLAND _____	
B. SALT _____	T. MONTOYA _____	T. FARMINGTON _____	
T. YATES _____ 2805	T. SIMPSON _____	T. PICTURED CLIFFS _____	
T. 7 RIVERS _____	T. McKEE _____	T. MENESEE _____	
T. QUEEN _____	T. ELLENBURGER _____	T. POINT LOOKOUT _____	
T. GRAYBURG _____	T. GR. WASH _____	T. MANCOS _____	
T. SAN ANDRES _____ 4114	T. GRANITE _____	T. DAKOTA _____	
T. GLORIETA _____ 5555	T. _____	T. MORRISON _____	
T. DRINKARD _____	T. _____	T. PENN _____	
T. TUBBS _____ 6986	T. _____	T. _____	
T. ABO _____ 7738	T. _____	T. _____	
T. PENN _____	T. _____	T. _____	
T. MISS _____ 11953	T. _____	T. _____	

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION	FROM	TO	THICKNESS IN FEET	FORMATION
0	2035	2035	Redbeds				
2035	2140	105	Anhydrite				
2140	2805	665	Salt & anhydrite				
2805	4114	1309	Sand, shale & anhydrite				
4114	5555	1441	Dolomite & anhydrite				
5555	7745	2190	Dolomite, shale, sandstone, & anhydrite				
7745	8992	1247	Shale, anhydrite & dolomite				
8992	9700	708	Limestone, dolomite & shale				
9700	11350	1650	Limestone & shale				
11350	11953	603	Sandstone, shale & limestone				
11953	12496	543	Limestone & chert				
12496	12582	86	Shale & limestone				
12582	12870	288	Dolomite & chert				

ILLEGIBLE

ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

I HEREBY SWEAR OR AFFIRM THAT THE INFORMATION GIVEN HERewith IS A COMPLETE AND CORRECT RECORD OF THE WELL AND ALL WORK DONE ON IT SO FAR AS CAN BE DETERMINED FROM AVAILABLE RECORDS.

April 30, 1959

COMPANY OR OPERATOR Humble Oil & Refining Company
NAME NEWORTH

ADDRESS Box 2347, Hobbs, New Mexico (DATE)
POSITION OR TITLE Agent

**New Mexico Office of the State Engineer
Well Reports and Downloads**

Township: Range: Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ☐ Non-Domestic ☐ Domestic ☒ All

Well / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

WATERS Menu

Help

WELL / SURFACE DATA REPORT 10/11/2002

DB File Nbr	(acre ft per annum)	Use	Diversion	Owner	Well Number	Source	Tws	Rng	Sec	q
L 03005	PRO	3	EXXON CORP.		L 03005		12S	34E	02	2
L 03005 (1)	PRO		EXXON CORP.		L 03005 (1)		12S	34E	02	2

Record Count: 2



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

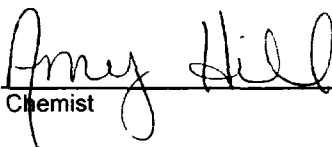
ANALYTICAL RESULTS FOR
EDDIE SEAY CONSULTING
ATTN: EDDIE SEAY
601 W. ILLINOIS
HOBBS, NM 88242
FAX TO:

Receiving Date: 10/10/02
Reporting Date: 10/15/02
Project Owner: PRIDE ENERGY
Project Name: PRIDE 4 LAKES SWD
Project Location: WEST TATUM

Sampling Date: 10/10/02
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

LAB NUMBER SAMPLE ID	P-Alkalinity (mg/L)	T-Alkalinity (mg/L)	Hardness (mg/L)	Chloride (mg/L)	Sulfates (mg/L)	pH (s.u.)
ANALYSIS DATE	10/14/02	10/14/02	10/14/02	10/14/02	10/14/02	10/14/02
H7119-1 4 LAKES #1	0	195	344	180	158	7.30
Quality Control	NR	NR	48	970	49.34	6.96
True Value QC	NR	NR	50	1000	50.00	7.00
% Recovery	NR	NR	96.0	97.0	98.7	99.4
Relative Percent Difference	NR	NR	0	8.0	0.2	0.1
METHODS:	EPA 600/4-79-020	-	130.2	-	375.4	150.1
	Standard Method	2320 B	2320 B	4500-Cl/B	-	-

LAB NUMBER SAMPLE ID	Hydroxides (mg/L)	Carbonate (mg/L)	Bicarbonat (mg/L)	Conductivity (umhos/cm)	TDS (mg/L)
ANALYSIS DATE	10/14/02	10/14/02	10/14/02	10/14/02	10/15/02
H7119-1 4 LAKES #1	0	0	238	966	528
Quality Control	NR	NR	1056	1489	NR
True Value QC	NR	NR	1000	1413	NR
% Recovery	NR	NR	106	105	NR
Relative Percent Difference	NR	NR	8.1	0.3	8.8
METHODS:	EPA 600/4-79-020	-	-	120.1	160.1
	Standard Method	2320 B	2320 B	2320 B	-


Chemist

10-15-02
Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240

(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page _____ of _____

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

NOTICES

Pride Energy Co.
P.O. Box 701602
Tulsa, OK 74170-1602

State Land Office
Box 1148
Santa Fe, NM 87504-1148

NMOCD
Box 6429
1220 S. Saint Francis Drive
Santa Fe, NM 87504

**PRIDE ENERGY CO.
BOX 701602
TULSA, OK 74170-1602**

October 17, 2002

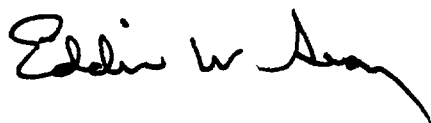
RE: South Four Lakes #6
Unit I, Sect. 2, Tws. 12 S., Rng. 34 E.

Dear Sirs:

In accordance with the rules and regulations of the Oil Conservation Division of the State of New Mexico, you are being provided a copy of the C-108, Application for Authorization to Inject, in the above captioned well.

Any questions about the permit can be directed to Eddie W. Seay, (505)392-2236. Any objections or request for hearing must be filed with the Oil Conservation Division within fifteen (15) days from the date received. The OCD address is P.O. Box 6429, 1220 S. Saint Francis Drive, Santa Fe, NM 87504, (505)476-3440.

Thank you,

A handwritten signature in black ink, appearing to read "Eddie W. Seay". The signature is fluid and cursive, with a long, sweeping underline that extends to the right.

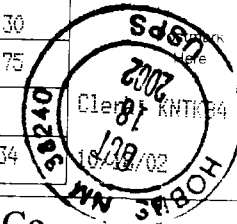
Eddie W. Seay, Agent
601 W. Illinois
Hobbs, NM 88242
(505)392-2236

7001 2510 5007 2764 8954

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

TULSA, OK 74170

Postage	\$ 1.29	UNIT ID: 0640
Certified Fee	2.30	
Return Receipt Fee (Endorsement Required)	1.75	
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 5.34	



Sent To
Pride Energy Co.
 Street, Apt. No. or PO Box No. **P.O. Box 701602**
 City, State, ZIP+4 **Tulsa, OK 74170-1602**

PS Form 3800, January 2001

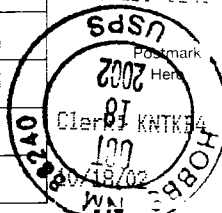
See Reverse for Instructions

7001 2510-0007 2764 8947

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

SANTA FE, NM 87504

Postage	\$ 1.29	UNIT ID: 0640
Certified Fee	2.30	
Return Receipt Fee (Endorsement Required)	1.75	
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 5.34	



Sent To
State Land Office
 Street, Apt. No. or PO Box No. **P.O. Box 1148**
 City, State, ZIP+4 **Santa Fe, NM 87504-1148**

PS Form 3800, January 2001

See Reverse for Instructions

LEGAL NOTICE

Pursuant to the rules and regulations of the Oil Conservation Division of the State of New Mexico, Pride Energy Company, Box 701602, Tulsa, OK 74170-1602, is filing application for a salt water disposal. The well being applied for is the South Four Lakes Well #6 located in Unit Letter I, 1980/S 660/E in Section 2, Township 12 S., Range 34 E., Lea Co., NM. The injection formation will be the Penn and Wolfcamp from 9170' to 10280'. The expected maximum rate of injection will be 1500 bls. per day and the expected maximum injection pressure will be 1000 psi. Any questions about the application can be directed to Eddie W. Seay, (505)392-2236, or any objection or request for hearing must be directed to the Oil Conservation Division, (505)476-3440, Box 6429, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87504, within fifteen (15) days.

Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

Joyce Clemens being first duly sworn on oath deposes and says that she is Advertising Director of **THE LOVINGTON DAILY LEADER**, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled

Legal Notice

was published in a regular and entire issue of **THE LOV-
INGTON DAILY LEADER** and not in any supplement there-
of, for one (1) day, beginning with the issue of
October 13, 2002 and ending with the issue
of October 13, 2002.

And that the cost of publishing said notice is the sum of \$ 18.21 which sum has been (Paid) as Court Costs.

Subscribed and sworn to before me this 15th day of
October 2002.

Debbie Schilling

Notary Public, Lea County, New Mexico

My Commission Expires June 22, 2006

LEGAL NOTICE

Pursuant to the rules and regulations of the Oil Conservation Division of the State of New Mexico, Pride Energy Company, Box 701602, Tulsa, OK 74170-1602, is filing application for a salt water disposal. The well being applied for is the South Four Lakes Well #6 located in Unit Letter I, 1980/S 660/E in Section 2, Township 12 S., Range 34 E., Lea Co., NM. The injection formation will be the Penn and Wolfcamp from 9170' to 10280'. The expected maximum rate of injection will be 1500 bbls. per day and the expected maximum injection pressure will be 1000 psi. Any questions about the application can be directed to Eddie W. Seay, (505) 392-2236, or any objection or request for hearing must be directed to the Oil Conservation Division, (505) 476-3440, Box 6429, 1120 South Saint Francis Drive, Santa Fe, New Mexico 87504, within fifteen (15) days. Published in the Lovington Daily Leader October 13, 2002.

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE No. 3643
Order No. R-3306

APPLICATION OF HUMBLE OIL & REFINING
COMPANY FOR SALT WATER DISPOSAL, LEA
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on August 23, 1967,
at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 6th day of September, 1967, the Commission, a
quorum being present, having considered the testimony, the record,
and the recommendations of the Examiner, and being fully advised
in the premises,

FINDS:

(1) That due public notice having been given as required by
law, the Commission has jurisdiction of this cause and the subject
matter thereof.

(2) That the applicant, Humble Oil & Refining Company, is
the owner and operator of the South Four Lakes Well No. 6, located
in Unit I of Section 2, Township 12 South, Range 34 East, NMPM,
South Four Lakes Field, Lea County, New Mexico.

(3) That the applicant proposes to utilize said well to
dispose of produced salt water into the "C" zone of the Pennsyl-
vanian formation, with injection through perforations from
approximately 10,258 feet to 10,280 feet.

(4) That should injection into the "C" zone of the Pennsyl-
vanian formation prove inadequate, the applicant proposes to
dispose of produced salt water also into the "A" zone of the

-3-

CASE No. 3643

Order No. R-3306

(2) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

GUYTON B. HAYS, Member

A. L. PORTER, Jr., Member & Secretary

S E A L

11/19/62
This form SW7
Has been inactive
More THAN 3 years
Will Jones

esr/