

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: Petrohawk Operating Company (Petrohawk) proposes to use existing well State AA/C 2 #66 (API 3002528275), located in Unit F, 1345 feet from the North line and 1345 feet from the West line of Section 9 in Township 22 South, Range 36 East in Lea County, New Mexico, as salt water disposal well (SWD) in the Queen Formation.

Application qualifies for administrative approval: Yes

II. OPERATOR:

Petrohawk Operating Company  
1100 Louisiana, Suite 4400  
Houston, Texas 77002  
Contact: Ms. Nancy K. Gatti, Regulatory Manager  
Telephone: 832-369-2126

III. WELL DATA:

Schematic of the proposed injection well is enclosed as Attachment A: *Supplemental Well API 3002528275 Data for C-108, Section III: Proposed Well Schematic*.

- IV. IS THIS AN EXPANSION OF AN EXISTING PROJECT? No

- 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.

The locations of all wells within the 2-mile and ½-mile radii of the proposed SWD well are provided in the attached Attachment B: *Supplemental Data for C-108, Section V: Figure1 – Wells Within Two-Mile Radii of Proposed Salt Water Disposal Well and Figure 2 – Wells Within One Half-Mile Radii of Proposed Salt Water Disposal Well*.

Locations of adjacent leases are provided in Attachment C: *Supplemental data for C-108, Section V: Figure 3-Locations of Leases Within One Half Mile of Proposed Salt Water Disposal Well* and *Supplemental data for C-108, Section V: Figure 4-Locations of Leases Within Two Miles of Proposed Salt Water Disposal Well*

- 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.

The tabulation of the available public data on wells within the ½ mile area of interest are presented in Attachment D: *Supplemental Data for C-108, Section VI: Tabulation of Wells*. This tabulation includes the description of all wells within the area of interest. The requested plugging records for the wells in the area of interest radius are included in Attachment E1: *Supplemental Data for C-108, Section VI: Documentation of Active and Temporarily Abandoned Wells and* Attachment E2: *Supplemental Data for C-108, Section VI: Documentation of Plugged Wells..*

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.).
1. The proposed total amount of salt water injection received by the well will be an average of 1000 barrels per day, with a maximum rate of 2000 barrels per day.
  2. At the location the Queen Formations is a closed system. Additional geological data for the area of the proposed injection well is included as the attached Attachment F: *Supplemental Data for C-108, Section VII - Geology*.

3. The proposed average injection may range from zero ("Vacuum") to a maximum of 750 psi. At the depth of the proposed injection zone (3760 to 3880 feet), the lithostatic pressure is approximately 3800 pounds per square inch, preventing any potential for fracturing or formation damage.
4. The injection fluid is produced water from wells in the existing field and is compatible with fluid in the Queen Formation. Detailed analyses of the injection fluid are included as Attachment G: *Supplemental Data for C-108, Section VII – Injection Fluid Analyses*.
5. Formation water in the proposed injection zone within the Queen Formation ranges from 10,400 to 47,700 mg/l Total Dissolved Solids. These are the same waters proposed to be disposed of in the proposed disposal well. The data are included as Attachment H: *Supplemental Data for C-108, Section VII – Formation Fluid Analyses*.

\*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.

The general stratigraphy in the vicinity of the proposed SWD well is summarized as:

Unit	From (feet)	To (feet)	Thickness (feet)
Sand & Redbeds	0	1380	1380
Anhydrite	1380	1683	303
Salt	1683	3040	1357
Yates	3040	3400	360
Seven Rivers	3400	3723	323
Queen	3723	3991	268

There are no sources of underground drinking water located below the Queen Formation.

The target zone for the proposed waterflood wells is:

Geological Name: Queen Formation  
 Lithologies: Dolomite and Limestone  
 Thicknesses: 250' to 300'  
 Depths: 3700' to 3900'

The geometry of the overlying salt and the Seven Rivers – Queen interval are shown in Appendix F: *Supplemental Data for C-108, Section VII: Geology*. Map 1 shows that the thickness of the salt overlying the target zone is continuous in the area of interest, and ranges from approximately 1100 to 1300 feet. Map 2 shows the thickness of the salt. The overall thickness of the Queen interval, ranges from 250 to 300 feet.

The only drinking water aquifer in the area is in the surficial, alluvial deposits of the Ogallala Formation. This unit is locally 100 to 200 feet thick, and the unconfined aquifer in this formation is encountered at 40 to 80 feet below the surface. Analyses of drinking water samples from published representative water wells (Sections 1, 2 and 11, T22S, R36E) are included as Appendix I: *Supplemental Data for Section VIII: Local Groundwater Analyses*. These analyses show that the Total Dissolved Solids for the analyzed drinking water ranged from 1090 to 6170 milligrams per liter.

IX. DESCRIBE THE PROPOSED STIMULATION PROGRAM, IF ANY. No stimulation is proposed.

\*X. ATTACH APPROPRIATE LOGGING AND TEST DATA ON THE WELL. (IF WELL LOGS HAVE BEEN FILED WITH THE DIVISION, THEY NEED NOT BE RESUBMITTED).

Schematics of the proposed salt water injection well are enclosed as Attachment A: *Supplemental Well Data for C-108, Section III: Proposed Well Schematics*. Logs, well reports and other applicable information have been previously submitted to NMOCD and can be found in the NMOCD file for State A A/C 2 #66 (API 3002528275), and has been summarized on the well diagram included as Attachment A: *Supplemental Well Data for C-108, Section III: Proposed Well Schematics*.

\*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.

Data on water wells received from the State Engineer is included as Appendix J: *Supplemental Data for C-108, Section XI: Water Wells*, and locations are plotted on a map included in the same section. The required analyses of groundwater in the area are also included in Appendix J.

**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.**

We have analyzed the available geological and engineering data and affirm that there are no open faults or other hydrogeological connections between the proposed injection zone(s) and the known sources of drinking water (see Sections VII and VIII also).

**XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.**

Notices are being prepared for adjacent operators, and a public notice for interested parties will be published in Lea County, New Mexico. Copies of all certified notices are provided in Appendix K: *Supplemental Data for C-108, Section XIII: Return Receipt from notices and copies of the publication affidavits will be submitted upon receipt.*

**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: Alberto A. Gutierrez, RG

TITLE: President, Geolex, Inc.<sup>®</sup> consultant to Petrohawk

SIGNATURE: 

DATE: 2/12/07

E-MAIL ADDRESS: [aag@geolex.com](mailto:aag@geolex.com)

\* 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: N/A

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

Alberto A. Gutiérrez, C.P.G.

2007 FEB 13 PM 2 01

February 13, 2007

Mr. David Catanach  
NM Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe NM 87505

HAND DELIVERED

RE: C108 APPLICATION FOR AUTHORIZATION TO CONVERT THE  
STATE A A/C 2 #66 TO A SALT WATER DISPOSAL WELL ON BEHALF OF  
~~PETROHAWK ENERGY CORPORATION~~ (PETROHAWK) IN SECTION 9,  
T22S, R36E; LEA COUNTY, NEW MEXICO

Dear Mr. Catanach:

Enclosed you will find an application on behalf of PETROHAWK to convert the State A A/C 2 #66 located in Section 9 of T22S, R36E, Lea County, New Mexico to a salt water disposal (SWD) well. This well was part of a previously-approved waterflood project in the same area (NMOCD Orders WFX-518 and WFX-530) in the Queen Formation. This application is to convert this temporarily abandoned well to a salt water injection well for disposal of produced water from the Queen Formation.

I am confident that the detail provided in the application will allow NMOCD to evaluate and administratively approve the application promptly. We have contacted all of the operators within the area of review, and the land owner where the applicable well is located to advise them of PETROHAWK's intentions to convert the well to SWD. As you will see from the application, proof-of-notice is provided that details our formal notification of the operators in the area of review. A legal notice will be placed in the Hobbs newspaper and we will submit the affidavit of publication along with the return receipts from the affected operators and the surface owner under separate cover to NMOCD as soon as they are received.

I trust that you will find everything you need herein to evaluate the application and approve the application administratively. I would encourage that if you have any questions, please contact me at the address below or at my office in Albuquerque: 505-842-8000.

Mr. David Catanach  
February 13, 2007  
Page 2

I look forward to working with you to assure the prompt and adequate review of this application and its timely approval.

Sincerely,  
Geolex, Inc.

*James C. Hunter* for Alberto A. Gutierrez  
James C. Hunter, RG for  
Alberto A. Gutierrez, C.P.G.  
President

AAG/lh

Enclosures

cc (w/enclosures):      Nancy Gatti – PETROHAWK  
                                 Chris Morro- PETROHAWK  
                                 William Carr, Esq. – Holland & Hart

I hereby certify that I have received this letter and the attached C-108 application on behalf of the NM Oil Conservation Division on

---

Date and Time

---

Signature and Printed Name

**Jones, William V., EMNRD**

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**From:** Jones, William V., EMNRD  
**Sent:** Friday, February 23, 2007 10:06 AM  
**To:** 'aag@geolex.com'  
**Cc:** Ezeanyim, Richard, EMNRD; Williams, Chris, EMNRD  
**Subject:** SWD Application: State A a/c2 #66 30-025-28275 Petrohawk Operating Company

Hello Mr. Jim Hunter:

After reviewing your application on behalf of Petrohawk, we have the following requests:

- 1) Please send proof of the newspaper notice.
- 2) From your application, we understand that you intend to re-activate an inactive injection well previously permitted by WFX-530 and use the existing perforations from 3758 to 3877 for re-injection into the Queen formation. Let us know if this is not correct.

Regards,

William V. Jones PE  
New Mexico Oil Conservation Division  
1220 South St. Francis  
Santa Fe, NM 87505  
505-476-3448

HOLLAND&HART LLP



Ocean Munds-Dry

Associate

omundsdry@hollandhart.com

March 6, 2007

**HAND DELIVERY**

Mr. William V. Jones  
Oil Conservation Division  
New Mexico Department of Energy,  
Minerals and Natural Resources  
1220 South Saint Francis Drive  
Santa Fe, New Mexico 87505

Re: Application of Petrohawk ~~Energy Corporation~~ for approval of a salt water disposal well, Lea County, New Mexico.

Dear Mr. Jones:

Enclosed please find an Affidavit of Publication for Petrohawk ~~Energy Corporation's~~ application for salt water disposal well (C-108), Lea County, New Mexico, for your use and information.

Please let me know if you have any questions or need anything further. Thank you for your attention to this application.

Sincerely,

*Ocean Munds-Dry*  
Ocean Munds-Dry  
ATTORNEY FOR PETROHAWK ENERGY  
CORP.

Enclosure

Holland & Hart LLP

Phone [505] 988-4421 Fax [505] 983-6043 [www.hollandhart.com](http://www.hollandhart.com)

110 North Guadalupe Suite 1 Santa Fe, NM 87501 Mailing Address P.O. Box 2208 Santa Fe, NM 87504-2208

Aspen Billings Boise Boulder Cheyenne Colorado Springs Denver Denver Tech Center Jackson Hole Salt Lake City Santa Fe Washington, D.C. ☎

LLC 3/9/07

## 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 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 uninterrupted for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as herein-after 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 LOVINGTON LEADER and not in any supplement thereof, for one (1) day, beginning with the issue of March 3, 2007 and ending with the issue of March 3, 2007.

And that the cost of publishing said notice is the sum of \$24.49, which sum has been (Paid) as Court Costs.

Joyce Clemens

Subscribed and sworn to before me this 6<sup>th</sup> day of March, 2007

Debbie Schilling  
Debbie Schilling  
Notary Public, Lea County, New Mexico  
My Commission Expires June 22, 2010

### LEGAL NOTICE

Application of Petrohawk Energy Corporation for approval of a salt water disposal well, Lea County, New Mexico. Applicant seeks approval to convert

the State A AC2 Well No. 66 located 1345 feet from the North and West lines of Section 9, Township 22 South, Range 36 East, NMMP, Lea County, New Mexico to a salt water disposal well. Applicant seeks to inject up to 2000 barrels of salt water per day, at a maximum pressure of 750 psi, into the Queen Formation, at an approximate depth of 3780 feet to 3890 feet. Petrohawk may be contacted through its representative, Mr. Alberto Gutierrez, 500 Marquette Ave NW, Suite 1350, Albuquerque, New Mexico 87102 or (505) 842-8000. Interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days. This well is located 5 miles southwest of Eunice, New Mexico.

Published in the Lovington Leader March 3, 2007.

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

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

OIL CONSERVATION DIVISION

P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

Form C-103  
Revised 10-1-78

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

OIL WELL  GAN WELL  OTHER

Name of Operator

Sun Exploration & Production Co.

Address of Operator

P.O. Box 1861, Midland, Texas 79702

Location of Well

UNIT LETTER F LINE, SECTION 1345 FEET FROM THE North LINE A. 1345 FEET FROM

THE West LINE, SECTION 9 TOWNSHIP 22-S RANGE 36-E NEPM.

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

3565.4' GR

7. Unit Agreement Name

8. Farm or Lease Name

State "A" A/C 2

9. Well No.

66

10. Field and Pool, or Wildcat  
Funice Seven Rivers  
Queen South

12. County  
Lea

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

FORM REMEDIAL WORK

PLUG AND ABANDON

REMEDIAL WORK

ALTERING CASING

TEMPORARILY ABANDON

COMMENCE DRILLING ONS.

PLUG AND ABANDONMENT

OR ALTER CASING

CHANGE PLANS

CASING TEST AND CEMENT JOB

OTHER

OTHER

Description of Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1105.

Spud 8-19-83

8-20-83 R & C 13 Jts 8 5/8 Csg. CS 567, BP 524/ Howco Cmt 8 5/8 w/ 375 Sxs class "C", 2% CC & 1/4# Flocele, FP 250-400 Circ 50 Sxs Test Csg. & BOP 1000#

8-24-83 R & C 94 Jts 5 1/2 CS 3900, FC 3855/Howco proceed cmt w/20 bbls mud flush & 20 bbls Flochek 21 w/KCL spacers, Cmt w/750 Sxs Howco lite w/15% Salt, 1/4 # flocele followed by 200 Sxs "C" 50-50 Poz w/12% salt, 2% Gel & 1/4# Flocele Circ 110 Sxs Cmt, ND BOP, set slips, cut off 5 1/2 csg.

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

Jerry Sexton

TITLE Sr. Acct. Asst.

DATE 8-29-83

ORIGINAL SIGNED BY JERRY SEXTON  
DISTRICT SUPERVISOR

SEP 2 1983

ED BY \_\_\_\_\_ TITLE \_\_\_\_\_

DATE \_\_\_\_\_

TIONS OF APPROVAL, IF ANY:

February 12, 2007

Clayton Williams Energy, Inc.  
6 Desta Drive  
Suite 3000  
Midland, Texas 79705

VIA CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

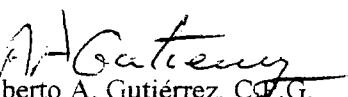
RE: Application of Petrohawk Energy Corporation for approval to utilize its existing State A A/C 2 #66 Well located in Unit F 1345 feet from the North line and 1345 feet from the West line of Section 9, Township 22 South, Range 36 East, NMPM, as a salt water disposal well, Lea County, New Mexico.

Ladies and Gentlemen:

This letter is to advise you that Petrohawk Energy Corporation (Petrohawk) is seeking approval to utilize its existing State AA/C 2 #66 Well located in Unit F 1345 feet from the North line and 1345 feet from the West line of Section 9, Township 22 South, Range 36 East, NMPM, in Lea County, New Mexico as a salt water disposal well into the Queen Formation at depth of 3760 to 3880 feet. Petrohawk has filed a C-108 application on this date with the New Mexico Oil Conservation Division seeking authorization to reactivate this previously permitted salt water injection well which is currently temporarily abandoned. Petrohawk proposes to reactivate this salt water injection well to inject at an average injection pressure of 600 psi and the maximum injection pressure of 750 psi. The average daily injection rate will be 1000 barrels per day and the maximum daily injection rate will be 2000 barrels per day.

If you have questions concerning this application, you may contact Mr. Alberto Gutierrez at (505) 842-8000 or 500 Marquette Avenue NW, Suite 1350, Albuquerque, New Mexico 87102 or William F. Carr or Ocean Munds-Dry at (505) 988-4421 or Post Office Box 2208, Santa Fe, New Mexico 87501.

Sincerely,  
Geolex, Inc.

  
Alberto A. Gutiérrez, C.P.G.  
President  
Consultant to Petrohawk Energy Corporation

AAG/lh

G:\07-004\C-108 Permit\Notices and Letters\SWDOperatorsCLAYTONLetter.doc

Alberto A. Gutiérrez, C.P.G.

February 12, 2007

New Mexico State Land Office  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87501

VIA CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

RE: Application of Petrohawk Energy Corporation for approval to utilize its existing State A A/C 2 #66 Well located in Unit F 1345 feet from the North line and 1345 feet from the West line of Section 9, Township 22 South, Range 36 East, NMPM, as a salt water disposal well, Lea County, New Mexico.

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President  
Consultant to Petrohawk Energy Corporation

AAG/lh

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Alberto A. Gutiérrez, C.P.G.

February 12, 2007

XTO Energy, Inc.  
200 North Loraine  
Suite 800  
Midland, Texas 79701

VIA CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

RE: Application of Petrohawk Energy Corporation for approval to utilize its existing State A A/C 2 #66 Well located in Unit F 1345 feet from the North line and 1345 feet from the West line of Section 9, Township 22 South, Range 36 East, NMPM, as a salt water disposal well, Lea County, New Mexico.

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Sincerely,  
Geolex, Inc.

*AAG/lh*  
Alberto A. Gutiérrez, C.P.G.

President  
Consultant to Petrohawk Energy Corporation

AAG/lh

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Petrobrake  
Salt Water Disposal Well

C108 Notice letters

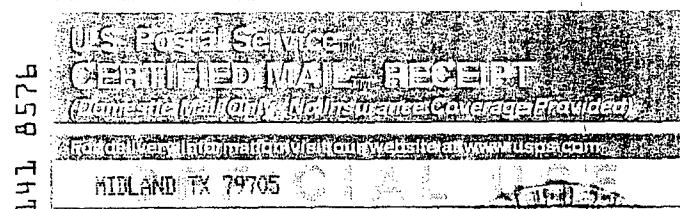
? Return Receipts Copies

? Return Receipt Card Copies

MIDLAND TX 79701

Postage	\$0.39	0129
Certified Fee	\$2.40	10
Return Receipt Fee (Endorsement Required)	\$1.85	Postmark Here:
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$4.64	02/12/2007

Sent To XTO Energy, Inc.  
Street, Apt. No.  
or PO Box No. 200 N. Larson #800  
City, State, ZIP+4 Midland TX 79701



Postage	\$0.39	0129
Certified Fee	\$2.40	10
Return Receipt Fee (Endorsement Required)	\$1.85	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	UNP
Total Postage & Fees	\$4.64	02/12/2007

Sent To Clayton Williams Energy, Inc.  
Street, Apt. No.  
or PO Box No. 6 Davis Dr. #3000  
City, State, ZIP+4 Midland TX 79705



Postage	\$0.39	0129
Certified Fee	\$2.40	105114 Postmark Here
Return Receipt Fee (Endorsement Required)	\$1.85	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$4.64	02/12/2007

Sent To NM State Land Office  
Street, Apt. No.  
or PO Box No. 310 Old Santa Fe Trail  
City, State, ZIP+4 Santa Fe NM 87501

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

## 1. Article Addressed to:

XTO Energy, Inc.  
200 North Lorraine #800  
Midland TX 79701

## 2. Article Number

(Transfer from service label)

7005 3110 0002 3141 8569

PS Form 3811, August 2001

Domestic Return Receipt

102595-02-M-154

**COMPLETE THIS SECTION ON DELIVERY**

## A. Signature

**X** *Patty Edens*

- 
- Agent
- 
- 
- Addressee

## B. Received by (Printed Name)

*Patty Edens*C. Date of Deliver  
*2-20-01*D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

## 1. Article Addressed to:

Clayton Wms. Energy, Inc.  
6 Davis Dr. #3000  
Midland TX 79705

## 2. Article Number

(Transfer from service label)

7005 3110 0002 3141 8576

PS Form 3811, August 2001

Domestic Return Receipt

102595-02-M-154

**COMPLETE THIS SECTION ON DELIVERY**

## A. Signature

**X** *[Signature]*

- 
- Agent
- 
- 
- Addressee

## B. Received by (Printed Name)

*[Signature]*

C. Date of Deliver

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

## 1. Article Addressed to:

NM State Land Office  
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Geolex, Inc.  
500 Marquette Ave NW 1350  
Albuquerque NM 87102

## Inactive Well List

**Total Well Count:214 Inactive Well Count:4 Since:11/30/2005**

**Printed On: Friday, February 23 2007**

District	API	Well	ULSTR	OCD Unit	OGRID	Operator	Lease Type	Well Type	Last Production	Formation/Notes	Status	Days in TA
1	30-025-09298	STATE A/C 1 #089	N-10-23S-36E	N	194849	PETROHAWK OPERATING COMPANY	S	G	11/2005	YATES 7 RVRS		
1	30-025-20970	STATE A/C 2 #059	K-9 -22S-36E	K	194849	PETROHAWK OPERATING COMPANY	S	O	10/2005	7 RVRS QUEEN		
1	30-025-23507	STATE A/C 2 #061	J-8 -22S-36E	J	194849	PETROHAWK OPERATING COMPANY	S	O	07/1986			
1	30-025-09303	STATE A/C 3 COM A #005	G-10-23S-36E	G	194849	PETROHAWK OPERATING COMPANY	S	G	07/2005	YTS 7 RVRS/ TOP OF YATES 3021'		

WHERE Ogrid:194849, County:All, District:All, Township:All, Range:All, Section:All, Production(months):15

OK ✓ @ 3/19/07

Petrohawk Energy Group									
No other WIWs in the 1/2 mile AOR									
3002528275	STATE A AC 2.066	22-Aug-83	TA						
API	WELL NAME	SPUD DATE	COMPL. ST.	Formation	ONE PRODUCING POOL_NAME	LAST PROD. DAYS	GAS	PROIL	PR.WATER
3002508845	STATE A AC 2.048	22-Aug-60	Active	TANSILL-YATES-SEVEN RIVERS	JALMAT-TAN-YATES-7 RVRS (GAS)	2006-05	151	12150	0
3002508858	STATE A AC 2.039	TA				1981-12	0	0	0
3002508854	STATE A AC 2.029	Active	TANSILL-YATES-SEVEN RIVERS	JALMAT-TAN-YATES-7 RVRS (GAS)		2006-05	151	15048	0
3002508855	STATE A AC 2.030	19-Sep-35	Active	TANSILL-YATES-SEVEN RIVERS	JALMAT-TAN-YATES-7 RVRS (GAS)	2006-05	151	12621	0
3002528274	STATE A AC 2.065	04-Sep-83	TA				0	0	0
3002528277	STATE A AC 2.068	08-Aug-83	TA				0	0	0
3002508856	STATE A AC 2.031	03-Nov-45	Active	TANSILL-YATES-SEVEN RIVERS	JALMAT-TAN-YATES-7 RVRS (GAS)	2006-05	151	11663	0
3002520297	STATE A AC 2.057	Active	TANSILL-YATES-SEVEN RIVERS	JALMAT-TAN-YATES-7 RVRS (GAS)		2006-05	151	1336	0
3002508847	STATE A AC 2.038	28-Nov-46	Active	TANSILL-YATES-SEVEN RIVERS	JALMAT-TAN-YATES-7 RVRS (GAS)	2006-05	151	7438	0
3002520970	STATE A AC 2.059	09-Oct-64	Active	SEVEN RIVER-S-QUEEN	EUNICE;SEVEN RIVERS-QUEEN, SOUTH	2005-10	0	0	0
3002528276	STATE A AC 2.067	14-Sep-33	Active	TANSILL-YATES-SEVEN RIVERS	JALMAT-TAN-YATES-7 RVRS (GAS)	2006-05	151	5712	0
3002528281	STATE A AC 2.072	30-Aug-83	Active	TANSILL-YATES-SEVEN RIVERS	JALMAT-TAN-YATES-7 RVRS (GAS)	2006-05	121	419	0
3002508857	STATE A AC 2.032	Plugged							
3002525446	STATE A AC 2.032Y	Plugged							
3002508834	STATE A AC 2.025	Active	TANSILL-YATES-SEVEN RIVERS	JALMAT-TAN-YATES-7 RVRS (GAS)		2006-05	151	27815	0
3002528273	STATE A AC 2.064	13-Aug-83	TA				0	0	0
3002508832	STATE A AC 2.023	04-Nov-42	Active	SEVEN RIVERS-S-QUEEN	EUNICE;SEVEN RIVERS-QUEEN, SOUTH	2004-01	0	0	0
3002508875	Trvrs QN WID. NORTH 001	26-May-43	Active	SEVEN RIVERS-S-QUEEN	EUNICE;SEVEN RIVERS-QUEEN, SOUTH	2006-05	92	2699	623
3002508777	Trvrs QN WID. NORTH 008	21-Apr-57	Active			2006-05	151	341	0

Petrohawk Energy Carbon LLC OGBD 194849  
OPERATING CO.

Petrohawk Energy Corporation OGRD 194849											
No other WIWs in the 1/2 mile AOR											
STATE A AAC2.066											
3002508875 PETROHAWK OPERATING COMPANY											
API	WELL_NAME	OPERATOR	FTG_NS	NS_CD	FTG_EW	EW_CD	OCD_UL	Sec	Tsp	Rcp	Dist
3002508845 STATE A AAC2.048	PETROHAWK OPERATING COMPANY	660 N		1980 E		B	9.22S	.36E		2,072	
3002508858 STATE A AAC2.039	PETROHAWK OPERATING COMPANY	990 N		1650 W		C	9.22S	.36E		468	
3002508850 STATE A AAC2.030	PETROHAWK OPERATING COMPANY	660 N		660 W		D	9.22S	.36E		969	
3002508854 STATE A AAC2.030	PETROHAWK OPERATING COMPANY	660 N		660 W		E	9.22S	.36E		3860	
3002508855 STATE A AAC2.030	PETROHAWK OPERATING COMPANY	1980 N		660 W		F	9.22S	.36E		934	
3002508852 STATE A AAC2.065	PETROHAWK OPERATING COMPANY	1345 N		25 W		G	9.22S	.36E		3840	
3002508874 STATE A AAC2.068	PETROHAWK OPERATING COMPANY	2570 N		70 W		H	9.22S	.36E		1,320	
3002508877 STATE A AAC2.031	PETROHAWK OPERATING COMPANY	1980 N		1980 W		I	9.22S	.36E		1,768	
3002508856 STATE A AAC2.031	PETROHAWK OPERATING COMPANY	1980 N		1980 W		J	9.22S	.36E		898	
3002508897 STATE A AAC2.057	PETROHAWK OPERATING COMPANY	1980 N		1980 W		K	9.22S	.36E		2,056	
3002508847 STATE A AAC2.038	PETROHAWK OPERATING COMPANY	1980 S		1980 W		L	9.22S	.36E		2,056	
3002508870 STATE A AAC2.059	PETROHAWK OPERATING COMPANY	1980 S		2080 W		M	9.22S	.36E		2,089	
3002508876 STATE A AAC2.067	PETROHAWK OPERATING COMPANY	2615 S		1345 W		N	9.22S	.36E		1,320	
3002508881 STATE A AAC2.072	PETROHAWK OPERATING COMPANY	1410 S		1440 W		O	9.22S	.36E		2,527	
3002508851 STATE A AAC2.062	TEXAS PACIFIC OIL C.	1980 S		660 W		P	9.22S	.36E		3900	
3002508855 STATE A AAC2.062	CLAYTON W WILLIAMS JR	2050 S		760 W		Q	9.22S	.36E		2,072	
3002523546 STATE A AAC2.032Y	PETROHAWK OPERATING COMPANY	660 N		660 E		R	8.22S	.36E		2,119	
3002508834 STATE A AAC2.025	PETROHAWK OPERATING COMPANY	1250 N		1250 E		S	8.22S	.36E		2,597	
3002528273 STATE A AAC2.064	PETROHAWK OPERATING COMPANY	1980 N		1980 H		T	8.22S	.36E		2,103	
3002508832 STATE A AAC2.023	PETROHAWK OPERATING COMPANY	660 S		660 W		U	8.22S	.36E		3,856	
3002508875 STATE OWNED, NORTH 001	XTO ENERGY, INC	1980 W		1980 N		V	4.22S	.36E		2,119	
3002508877 STATE OWNED, NORTH 008	XTO ENERGY, INC	660 S		1980 W		W	4.22S	.36E		2,103	
3002508875 STATE OWNED, NORTH 008	XTO ENERGY, INC	660 S		1980 W		X	4.22S	.36E		3,860	
3002508875 STATE OWNED, NORTH 008	XTO ENERGY, INC	660 S		1980 W		Y	4.22S	.36E		5,380	
3002508875 STATE OWNED, NORTH 008	XTO ENERGY, INC	660 S		1980 W		Z	4.22S	.36E		5,380	

SWD Order Number \_\_\_\_\_ Dates: Division Approved \_\_\_\_\_ District Approved \_\_\_\_\_

Well Name/Num: State A A/C2 #66 Date Spudded: 8/19/83 COCRD 194849API Num: (30-) 025-28275 County: LEAFootages 1345 FNL / 1345 FWL Sec 9 Tsp 225 Rge 36EOperator Name: PETRO HAWK ENERGY COMPANY GELEX, INC.  
Contact Alberto A. GUTIERREZOperator Address: 500 MARQUETTE AVENUE NW, SUITE 1350 ALB, NM 87102Current Status of Well: SF. WF Planned Work: RE-ACTivate Inj. Tubing Size: 2 3/8 @ 3687

	Hole/Pipe Sizes	Depths	Cement	Top/Method
Surface	<u>12 1/4</u> <u>8 5/8</u>	<u>524'</u>	<u>375</u>	<u>CIRC</u>
Intermediate				
Production	<u>7 1/8</u> <u>5 1/2</u>	<u>3900'</u>	<u>950</u>	<u>CIRC</u>
Last DV Tool				
Open Hole/Liner				
Plug Back Depth				

Diagrams Included (Y/N): Before Conversion  After Conversion Checks (Y/N): Well File Reviewed  ELogs in Imaging 

Intervals:	Depths	Formation	Producing (Yes/No)
<u>Salt/Potash</u>	<u>1683 - 3040</u>		
<u>Castillian Reef</u>	<u>3132 - Yates</u>		
<u>Cliff House, Etc.</u>	<u>3320 - 7 RV 12</u>		
Formation Above	<u>3699 Queen</u>		
Top Inj Interval	<u>3760 58</u>	<u>Queen</u>	
Bottom Inj Interval	<u>3880 77</u>	<u>Queen</u>	
Formation Below			

SOUTH EUREKA-7RIVSON

Wor WFX-530 FAED 199  
N.S.E. 1729

752 PSI Max. WHIP

N= Open Hole (Y/N)  
X= Deviated Hole (Y/N)

Fresh Water: Depths: 40' - 280' Wells(Y/N)  Analysis Included (Y/N)  Affirmative Statement Salt Water Analysis: Injection Zone (Y/N/NA)  DispWaters (Y/N/NA)  Types: QueenNotice: Newspaper(Y/N)  Surface Owner S.L.O. Mineral Owner(s) S.L.O.Other Affected Parties: Cheniere, Konoco, BP, XTO, Cigni, WilliamsAOR/Repairs: NumActiveWells 17 Repairs?  Producing in Injection Interval in AOR AOR Num of P&A Wells 2 Repairs? 150 Diagrams Included?  RBDMS Updated (Y/N) \_\_\_\_\_Well Table Adequate (Y/N)  AOR STRs: Sec \_\_\_\_\_ Tsp \_\_\_\_\_ Rge \_\_\_\_\_ UIC Form Completed (Y/N) \_\_\_\_\_New AOR Table Filename asr PETROHAWK Sec \_\_\_\_\_ Tsp \_\_\_\_\_ Rge \_\_\_\_\_ This Form completed \_\_\_\_\_

Conditions of Approval: Sec \_\_\_\_\_ Tsp \_\_\_\_\_ Rge \_\_\_\_\_ Data Request Sent \_\_\_\_\_

Burdened Surface & Land Lease #1980 FNL / 1980 FWL / S-14 / 225 / 36ESTATE A 1/02 A-43 1850 FNL / 1850 FWL / S-8#39 = 81KNewby NOTICE

AOR Required Work: \_\_\_\_\_

Required Work to this Well: \_\_\_\_\_

**C-108 Application for Authority to Inject  
Salt Water Disposal Well  
(State A A/C 2 #66)  
Lea County, New Mexico**



**February 13, 2007**

**Prepared For:**  
~~Petrohawk Energy Corporation~~  
1000 Louisiana, Suite 5600  
Houston, Texas 77002

**Submitted To:**  
**New Mexico Oil Conservation Division**  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Prepared By:**  
Geolex, Inc.  
500 Marquette Ave. NW, Suite 1350  
Albuquerque, NM 87102

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: Petrohawk Energy Corporation (Petrohawk) proposes to use existing well State AA/C 2 #66 (API 3002528275), located in Unit F, 1345 feet from the North line and 1345 feet from the West line of Section 9 in Township 22 South, Range 36 East in Lea County, New Mexico, as salt water disposal well (SWD) in the Queen Formation.

Application qualifies for administrative approval: Yes

II. OPERATOR:

Petrohawk Energy Corporation  
1100 Louisiana, Suite 4400  
Houston, Texas 77002  
Contact: Ms. Nancy K. Gatti, Regulatory Manager  
Telephone: 832-369-2126

III. WELL DATA:

Schematic of the proposed injection well is enclosed as Attachment A: *Supplemental Well API 3002528275 Data for C-108, Section III: Proposed Well Schematic*.

- IV. IS THIS AN EXPANSION OF AN EXISTING PROJECT? No

- 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.

The locations of all wells within the 2-mile and  $\frac{1}{2}$ -mile radii of the proposed SWD well are provided in the attached Attachment B: *Supplemental Data for C-108, Section V: Figure 1 – Wells Within Two-Mile Radii of Proposed Salt Water Disposal Well and Figure 2 - Wells Within One Half-Mile Radii of Proposed Salt Water Disposal Well*.

Locations of adjacent leases are provided in Attachment C: *Supplemental data for C-108, Section V: Figure 3-Locations of Leases Within One Half Mile of Proposed Salt Water Disposal Well and Supplemental data for C-108, Section V: Figure 4-Locations of Leases Within Two Miles of Proposed Salt Water Disposal Well*

- 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.

The tabulation of the available public data on wells within the  $\frac{1}{2}$  mile area of interest are presented in Attachment D: *Supplemental Data for C-108, Section VI: Tabulation of Wells*. This tabulation includes the description of all wells within the area of interest. The requested plugging records for the wells in the area of interest radius are included in Attachment E1: *Supplemental Data for C-108, Section VI: Documentation of Active and Temporarily Abandoned Wells and Attachment E2: Supplemental Data for C-108, Section VI: Documentation of Plugged Wells..*

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.).
1. The proposed total amount of salt water injection received by the well will be an average of 1000 barrels per day, with a maximum rate of 2000 barrels per day.
  2. At the location the Queen Formations is a closed system. Additional geological data for the area of the proposed injection well is included as the attached Attachment F: *Supplemental Data for C-108, Section VII - Geology*.

*Sept  
Amended  
C-108 Form  
WITH correct  
OPERATOR NAME*

3. The proposed average injection may range from zero ("Vacuum") to a maximum of 750 psi. At the depth of the proposed injection zone (3760 to 3880 feet), the lithostatic pressure is approximately 3800 pounds per square inch, preventing any potential for fracturing or formation damage.
4. The injection fluid is produced water from wells in the existing field and is compatible with fluid in the Queen Formation. Detailed analyses of the injection fluid are included as Attachment G: *Supplemental Data for C-108, Section VII – Injection Fluid Analyses*.
5. Formation water in the proposed injection zone within the Queen Formation ranges from 10,400 to 47,700 mg/l Total Dissolved Solids. These are the same waters proposed to be disposed of in the proposed disposal well. The data are included as Attachment H: *Supplemental Data for C-108, Section VII – Formation Fluid Analyses*.

\*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.

The general stratigraphy in the vicinity of the proposed SWD well is summarized as:

Unit	From (feet)	To (feet)	Thickness (feet)
Sand & Redbeds	0	1380	1380
Anhydrite	1380	1683	303
Salt	1683	3040	1357
Yates	3040	3400	360
Seven Rivers	3400	3723	323
Queen	3723	3991	268

There are no sources of underground drinking water located below the Queen Formation.

The target zone for the proposed waterflood wells is:

Geological Name: Queen Formation  
 Lithologies: Dolomite and Limestone  
 Thicknesses: 250' to 300'  
 Depths: 3700' to 3900'

The geometry of the overlying salt and the Seven Rivers – Queen interval are shown in Appendix F: *Supplemental Data for C-108, Section VII: Geology*. Map 1 shows that the thickness of the salt overlying the target zone is continuous in the area of interest, and ranges from approximately 1100 to 1300 feet. Map 2 shows the thickness of the salt. The overall thickness of the Queen interval, ranges from 250 to 300 feet.

The only drinking water aquifer in the area is in the surficial, alluvial deposits of the Ogallala Formation. This unit is locally 100 to 200 feet thick, and the unconfined aquifer in this formation is encountered at 40 to 80 feet below the surface. Analyses of drinking water samples from published representative water wells (Sections 1, 2 and 11, T22S, R36E) are included as Appendix I: *Supplemental Data for Section VIII: Local Groundwater Analyses*. These analyses show that the Total Dissolved Solids for the analyzed drinking water ranged from 1090 to 6170 milligrams per liter.

IX. DESCRIBE THE PROPOSED STIMULATION PROGRAM, IF ANY. No stimulation is proposed.

\*X. ATTACH APPROPRIATE LOGGING AND TEST DATA ON THE WELL. (IF WELL LOGS HAVE BEEN FILED WITH THE DIVISION, THEY NEED NOT BE RESUBMITTED).

Schematics of the proposed salt water injection well are enclosed as Attachment A: *Supplemental Well Data for C-108, Section III: Proposed Well Schematics*. Logs, well reports and other applicable information have been previously submitted to NMOCD and can be found in the NMOCD file for State A A/C 2 #66 (API 3002528275), and has been summarized on the well diagram included as Attachment A: *Supplemental Well Data for C-108, Section III: Proposed Well Schematics*.

\*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.

Data on water wells received from the State Engineer is included as Appendix J: *Supplemental Data for C-108, Section XI: Water Wells*, and locations are plotted on a map included in the same section. The required analyses of groundwater in the area are also included in Appendix J.

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.

We have analyzed the available geological and engineering data and affirm that there are no open faults or other hydrogeological connections between the proposed injection zone(s) and the known sources of drinking water (see Sections VII and VIII also).

III. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

Notices are being prepared for adjacent operators, and a public notice for interested parties will be published in Lea County, New Mexico. Copies of all certified notices are provided in Appendix K: *Supplemental Data for C-108, Section XIII: Return Receipt from notices and copies of the publication affidavits will be submitted upon receipt.*

IV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Alberto A. Gutierrez (for Petrohawk) TITLE: President; Geolex, Inc.

SIGNATURE:  DATE: 2/12/07

E-MAIL ADDRESS: aag@geolex.com

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: N/A

---

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

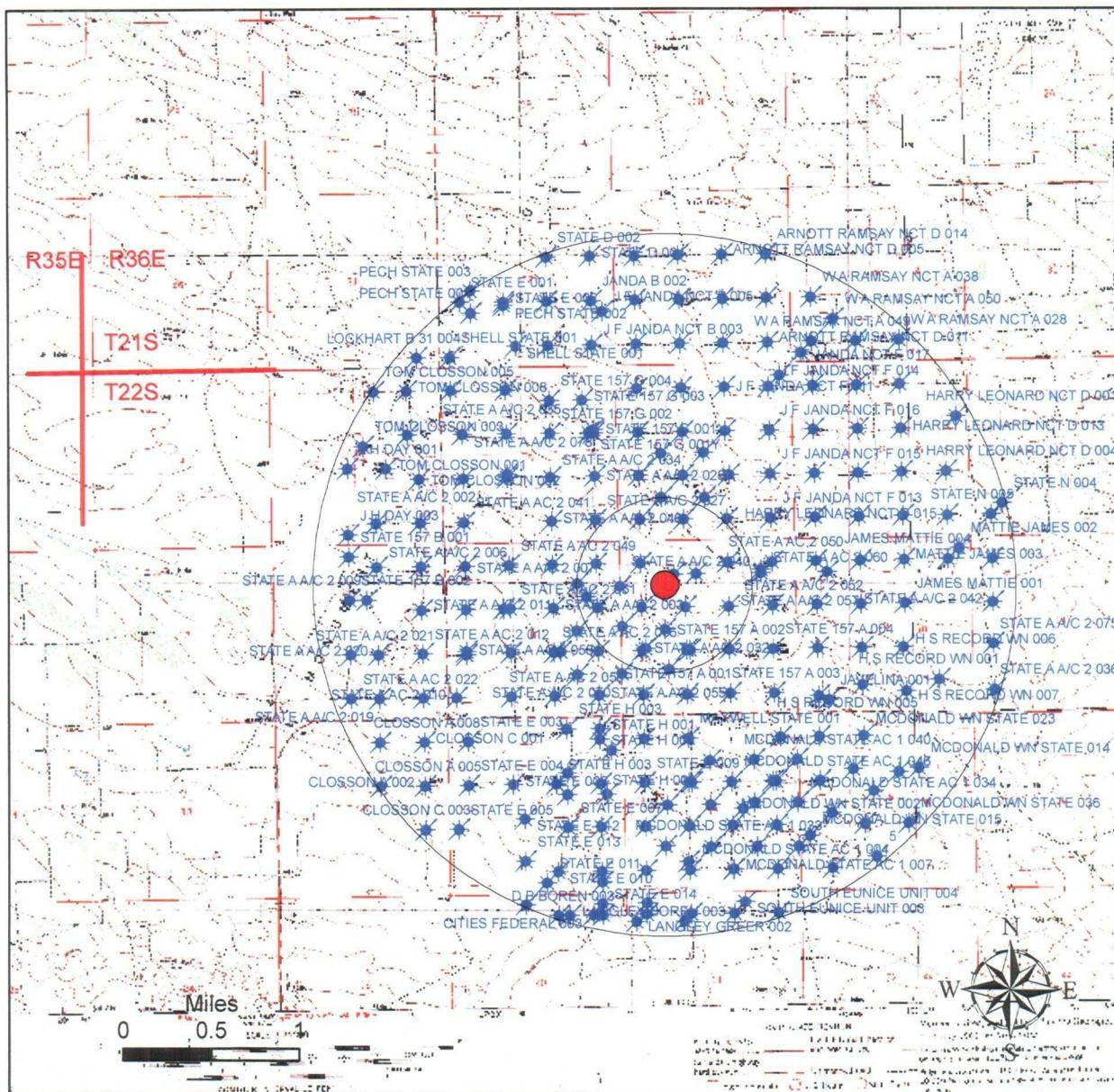
Attachment A:

Supplemental Well Data for C-108, Section III: Proposed SWD Well  
Schematics



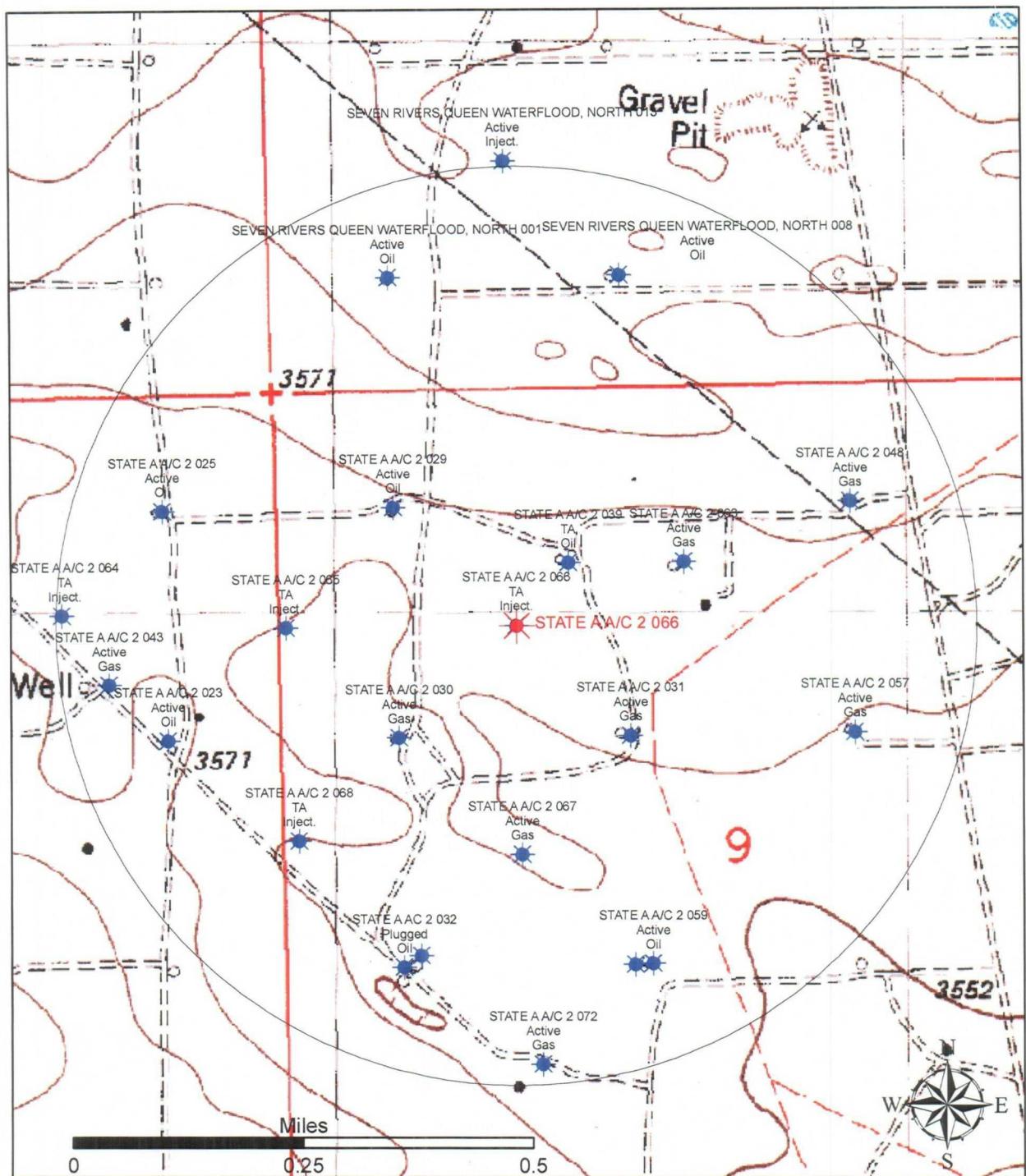
Attachment B:

Supplemental Data for C-108, Section V: Figure 1 – Wells Within Two-Mile  
Radii of Proposed SWD Well and Figure 2- Wells Within One Half-Mile  
Radii of Proposed SWD Well



**Attachment B - Figure 1:**

- Wells Within Two Mile Radius of State A A/C 2 #66
  - State A A/C 2 #066



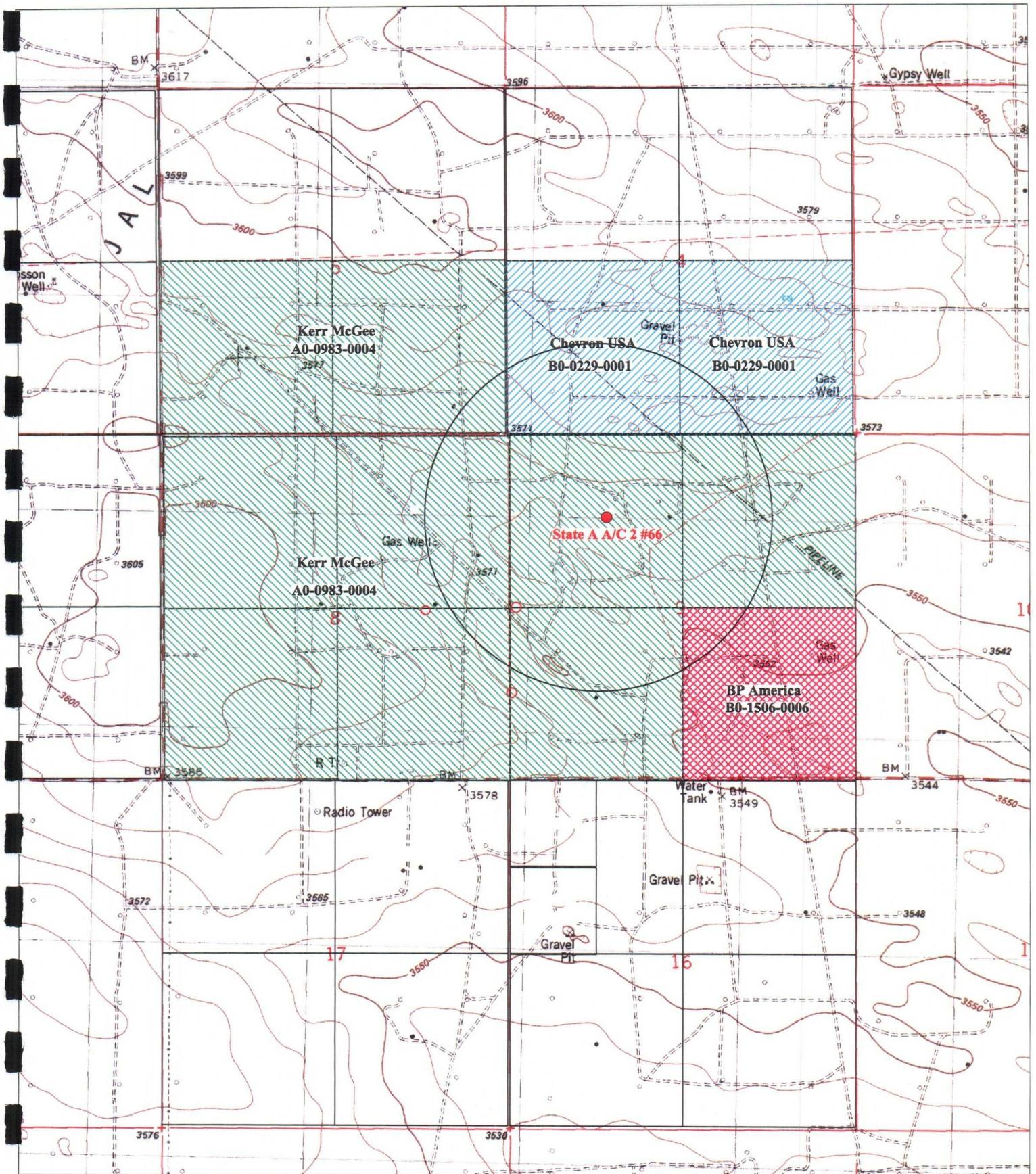
Sections 4, 5, 8 and 9; T22S R36E

**Attachment B - Figure 2:**  
**Wells Within One Half Mile Radius of Proposed Salt Water Disposal Well**

- Wells Within Half-Mile Radius of State A A/C 2 #66
  - State A A/C 2 #066

Attachment C:

Supplemental data for C-108, Section V: Figure 3-Locations of Leases Within One Half Mile of Proposed SWD Well and Supplemental Data for C-108, Section V: Figure 4-Locations of Leases Within Two Miles of Proposed SWD Well



**Section V - Figure 3:**  
**Locations of Leases Within One Half Mile of Proposed Salt Water Disposal Well State A A/C 2 #66**

PETROHAWK WATERFLOOD

Project:07-004

Lea County, New Mexico

OIL AND GAS LEASES

Township 22 South, Range 36 East:

Section 6: North half of the Northwest Quarter

Lessor: James H. & Lona M. Day, H/W Book 13, Pg 48  
Lessee: Noel T. Lawson

Section 6: Lots 5-7, E $\frac{1}{2}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$ NW $\frac{1}{4}$

Lessor: James H. & Lona M. Day, H/W Book 4, Pg 559  
Lessee: F.M. Andrews

Section 6: East Half

Lessor: United States of America Book 89, Pg 221  
Lessee: Cities Service Oil Co.

Section 10: N $\frac{1}{2}$ NE $\frac{1}{4}$  and SW $\frac{1}{4}$ NE $\frac{1}{4}$

Lessor: Eva Vosburg, a widow Book 35, Pg 491  
Lessee: R.S. Magruder

Lessor: Southland Royalty Co. Book 40, Pg 464  
Lessee: R.S. Magruder

Section 10: Southeast Quarter of the Northeast Quarter

Lessor: Mattie H. James Book 29, Pg 426  
Lessee: Repollo Oil Company

Lessor: Eva Vosburg, a widow Book 29, Pg 428  
Lessee: Repollo Oil Company

Lessor: Earl N. & Ione M. Grizzell, H/W Book 29, Pg 431  
Lessee: Repollo Oil Company

Lessor: Annie L. & B.A. Christmas, H/W Book 29, Pg 434  
Lessee: Repollo Oil Company

Lessor: Corana Petroleum Company Book 29, Pg 436  
Lessee: Repollo Oil Company

Page two  
Petrohawk Waterflood

Township 22 South, Range 36 East cont.:

Section 10: SE $\frac{1}{4}$ NE $\frac{1}{4}$

Lessor:	Southland Royalty Company	Book 31, Pg 15
Lessee:	Repollo Oil Company	
Lessor:	Atlantic Oil Producing Co.	"Book 31, Pg 170
Lessee:	Repollo Oil Company	
Lessor:	R.R. James & Renee James, H/W	Book 31, Pg 292
Lessee:	Repollo Oil Company	

Section 10: Northwest Quarter

Lessor:	Saltmount Oil Company	Book 35, Pg 492
Lessee:	Western Gas Company	
Lessor:	Pendulum Investment Co.	Book 35, Pg 499
Lessee:	Roy G. Barton	
Lessor:	The Ohio Fuel Supply Co.	Book 35, Pg 504
Lessee:	R.S. Magruder	
Lessor:	Argo Oil Corporation	Book 35, Pg 512
Lessee:	Roy G. Barton	
Lessor:	United Producing Co., Inc.	Book 35, Pg 580
Lessee:	Roy G. Barton	

Section 10: Southwest Quarter

Lessor:	Spencer Graham, a single man	Book 10, Pg 235
---------	------------------------------	-----------------

Section 10: South Half

Lessor:	H.S. Record (aka Henry S. Record)	Book 35, Pg 459
Lessee:	Roy G. Barton	
Lessor:	L.H. Wentz, a single person	Book 35, Pg 460
Lessee:	Roy G. Barton	
Lessor:	Argo Oil Corporation	Book 35, Pg 475
Lessee:	Roy G. Barton	
Lessor:	Pendulum Investment Co.	Book 35, Pg 500
Lessee:	Roy G. Barton	
Lessor:	The Ohio Fuel Supply Co.	Book 35, Pg 503
Lessee:	Roy G. Barton	

Township 22 South, Range 36 East cont.:

Section 18: West Half

Lessor: United States of America  
Lessee: Cities Service Company

Book 309, Pg 428

Section 18: East Half

Lessor: United States of America  
Lessee: Cities Service Company

Book 309, Pg 431

Section 19: All

Lessor: United States of America  
Lessee: Cities Service Company

Book 309, Pg 428

Section 20: Northeast Quarter

Lessor: J.M. & Della Boren, H/W  
Lessee: Cosden Oil & Gas Company

Book 15, Pg 618

Section 20: West Half

Lessor: United States of America  
Lessee: Cities Service Company

Book 309, Pg 428

Section 21: East Half

Lessor: B.A. & Annie Christmas, H/W  
Lessee: Wesley McCallister

Book 10, Pg 38

Section 21: West Half

Lessor: Henry D. Greer, a bachelor  
Lessee: F.E. Vosburg

Book 4, Pg 628

Section 22: North Half

Lessor: Henry S. Record  
Lessee: A. S. Everest

Book 4, Pg 460

PETROHAWK WATERFLOOD

Project 07-004

Lea County, New Mexico

SURFACE OWNERS

Township 22 South, Range 36 East:

Section 8: All, Except SW $\frac{1}{4}$ SE $\frac{1}{4}$

State of New Mexico  
New Mexico State Land Office  
310 Old Santa Fe Trail  
P.O. Box 1148  
Santa Fe, New Mexico 87504-1148

Section 8: Southwest Quarter of the Southeast Quarter

G. P. Sims  
P.O. Box 1046  
Eunice, New Mexico 88231

Section 9: All

State of New Mexico  
New Mexico State Land Office  
310 Old Santa Fe Trail  
P.O. Box 1148  
Santa Fe, New Mexico 87504-1148

**Attachment D:**

**Supplemental Data for C-108, Section VI: Tabulation of Wells**

API No.	Well Name	Township	Section	Range	sdir_wl	flg_ns	flg_cd	flg_sw	ew_cd	land type	spud date	plug date	Top Elevation	Total Depth
3002508866	STATE A A/C 2 031	Active	22.0S	9 36E	F	1980	N	1980	W	Gas	11/31/1945		3573	3845
3002508865	STATE A A/C 2 030	Active	22.0S	9 36E	E	1980	N	660	W	Gas	9/19/1945		3563	3840
3002508864	STATE A A/C 2 028	Active	22.0S	9 36E	D	660	W	660	W	Oil	6/5/1943		3560	3860
3002508863	STATE A A/C 2 033	Active	22.0S	9 36E	C	990	N	2310	W	Gas	5/29/1977		3558	3700
3002508862	STATE A A/C 2 067	Active	22.0S	9 36E	K	2615	S	1345	W	Gas	9/14/1983		3560	3900
3002508867	STATE A A/C 2 057	Active	22.0S	9 36E	G	1980	N	1980	E	Gas	1/21/1964		3565	3806
3002508866	STATE A A/C 2 048	Active	22.0S	9 36E	B	660	N	1980	E	Gas	8/22/1960		3577	3817
3002508867	STATE A A/C 2 038	Active	22.0S	9 36E	K	1980	S	1980	W	Gas	11/28/1946		3565	3845
3002508860	STATE A A/C 2 059	Active	22.0S	9 36E	K	1980	S	1980	W	Oil	10/9/1964		3562	3870
3002508877	SEVEN RIVERS QUEEN WATERFLOOD, NORTH 008	Active	22.0S	9 36E	N	660	S	1980	W	Gas	4/21/1957		3600	3860
3002508832	STATE A A/C 2 023	Active	22.0S	9 36E	H	1980	N	660	E	Gas	11/14/1942		3573	3856
3002508875	SEVEN RIVERS QUEEN WATERFLOOD, NORTH 001	Active	22.0S	9 36E	M	660	S	660	W	Gas	5/26/1943		3561	3870
3002508844	STATE A A/C 2 025	Active	22.0S	9 36E	A	660	N	660	E	Gas	12/31/1943		3579	3855
3002508837	STATE A A/C 2 043	Active	22.0S	9 36E	H	1650	N	990	E	Gas	10/14/1957		3570	3840
3002508821	STATE A A/C 2 072	Active	22.0S	9 36E	K	1410	S	1440	W	Gas	8/30/1983		3577	3900
3002508826	SEVEN RIVERS QUEEN WATERFLOOD, NORTH 013	Active	22.0S	9 36E	K	1325	S	1330	W	Gas	12/7/1984		3562	3910
3002508846	STATE A A/C 2 032Y	Plugged	22.0S	9 36E	L	2050	S	760	W	Gas	7/9/1970	3/26/1993	3560	3900
3002508837	STATE A A/C 2 032	Plugged	22.0S	9 36E	L	1980	S	660	W	Gas	12/11/1945	9/4/1984	3565	3943
3002508825	STATE A A/C 2 036	Plugged	22.0S	9 36E	F	1345	N	1345	W	Gas	8/22/1983		3565	3900
3002508836	STATE A A/C 2 039	Plugged	22.0S	9 36E	C	990	N	1650	W	Oil	2/14/1948		3583	3956
3002508807	STATE A A/C 2 061	Plugged	22.0S	9 36E	J	1980	S	1780	E	Oil	5/14/1970		3584	3900
3002508829	STATE A A/C 2 069	Plugged	22.0S	9 36E	I	2615	S	1295	E	Gas	9/8/1983		3560	3882
3002508800	STATE A A/C 2 071	Plugged	22.0S	9 36E	M	1285	S	25	W	Gas	8/18/1983		3568	3900
3002508824	STATE A A/C 2 065	Plugged	22.0S	9 36E	N	1345	N	25	W	Gas	9/4/1983		3569	3900
3002508827	STATE A A/C 2 068	Plugged	22.0S	9 36E	E	2570	N	70	W	Gas	8/8/1983		3565	3910
3002508823	STATE A A/C 2 084	Plugged	22.0S	9 36E	A	1250	N	1250	E	Gas	8/13/1983		3564	3900

Attachment E1:

Supplemental Data for C-108, Section VI: Documentation of Active and  
Temporarily Abandoned Wells



## FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	151	151	Caliche & Shale
151	250	99	Caliche
250	275	25	Red Bed & Shale
275	639	364	Red Bed
639	955	316	Red Bed & Shale
955	1325	370	Red Bed
1325	1395	70	Red Rock
1395	1453	58	Red Bed & Shale
1453	1483	30	Red Bed
1483	1524	41	Red Rock & Anhydrite
1524	1550	26	Anhydrite
1550	1614	64	Anhydrite & Red Rock
1614	1750	1336	Salt & Anhydrite
1750	1773	23	Anhydrite & Lime
1773	2993	1220	Anhydrite & Lime
2993	3043	50	Anhydrite, Lime, & Salt
3043	3113	70	Anhydrite & Ory
3113	3431	318	Anhydrite & Lime
3431	3543	114	Lime
TOTAL LENGTH		3945	

**NEW MEXICO OIL CONSERVATION COMMISSION**  
Santa Fe, New Mexico

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**WELL RECORD**

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Form C-16  
Area of Action  
Locate Well Number

Map is on Oil Conservation Commission, Santa Fe, New Mexico, or its proper agent, or more than twenty days after completion of well. Federal information in the map is subject to revision by the Bureau of Land Management. The map is not valid until it is stamped by the Bureau. Form C-16 will not be accepted until FORM C-16 is properly filled out.

**TEXAS PACIFIC COAL AND OIL COMPANY** P. O. Box 2110, Fort Worth 1, Texas  
Owner or Operator Address

State New Mexico "A" AD-2 Well No. 30 Date of Rec'd 7 Address 22-8

R. 36-X N. M. P. M. 80. Bounding Plate East West Section 9  
Well is 1980 feet north of the North Line and 660 feet west of the North Line of A-983

If patented land the owner is \_\_\_\_\_ Address \_\_\_\_\_  
If Government land the permittee is \_\_\_\_\_ Address \_\_\_\_\_  
The leases is \_\_\_\_\_ Address \_\_\_\_\_

Drilling commenced September 17, 1945 Drilling was completed October 27, 1945  
Name of drilling contractor H. B. K. Drilling Co. Address Tulsa, Oklahoma  
Barometric pressure at top of casing 3565 feet

The information given is to be kept confidential until \_\_\_\_\_ 19\_\_\_\_

**OIL SANDS OR SINTER**

No. 1, from	3710'	3840'	No. 4, from	10
No. 2, from	10	10	No. 5, from	10
No. 3, from	10	10	No. 6, from	10

**IMPURITIY WATER BATHES**

Include data on rate of water inflow and elevation to which water rises in hole.

No. 1, from	10	feet
No. 2, from	10	feet
No. 3, from	10	feet
No. 4, from	10	feet

**CAKING RECORD**

HORN	WEIGHT PER FOOT	TERMINE PER DAY	MAKE	AMOUNT	SIGHT OF HORN	CUT & FILLED PROB	POROUS FROM	POROUS TO	PURPOSE
17/16	AD			3071'					
7-5/8	26.40			1948					
5-1/2	14			3700					
2	4.7			5820					

**MUDDING AND CEMENTING RECORD**

SIZE OF TUBING	RINN OF MUD	WHICH RINN	NO. BAGS OF MUD	METHOD USED	WTN. GRAVITY	AMOUNT OF MUD USED
10"	3071'	225				
7-5/8	1948	200				
5-1/2	3700	200				
2	5820	-				

**PLUG AND ABORTION**

Having plug - Material \_\_\_\_\_ Length \_\_\_\_\_ Depth feet \_\_\_\_\_  
Adapter - Material \_\_\_\_\_ Size \_\_\_\_\_

**REMOVED OR REMOVED OR CHEMICAL TREATMENT**

HORN	INCHES LENGTH	REMOVED OR INTERNAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEARED OUT
		Acid	3000	10-28-45	3710-3840'	

Results of shooting or chemical treatment Flowed

**RECORD OF DRILL-STEM AND SPECIAL TESTS**

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

**TOOLS USED**

Rotary tools were used from 0 feet to 3840 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.

**PRODUCTION**

Put to producing \_\_\_\_\_ 19\_\_\_\_\_  
The production of the first 24 hours was 114 barrels of fluid of which 100% was oil: \_\_\_\_\_% emulsion: \_\_\_\_\_% water; and \_\_\_\_\_% sediment. Gravity, Bu. \_\_\_\_\_  
If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_  
Rock pressure, lbs. per sq. in. \_\_\_\_\_

**EMPLOYMENT**

H. B. K. Company Driller Diller Driller  
Diller Driller

**FORMATION RECORD ON OTHER SIDE**

I hereby swear or affirm that the information given herein is a complete and correct record of the well and all work done as far as far as can be determined from available records.

Subscribed and sworn to before me this 9th day of November 1945 at Fort Worth, Texas November 9, 1945  
*L. A. Hartung* Name \_\_\_\_\_ Agent \_\_\_\_\_  
L. A. Hartung Testifying, TEXAS Position \_\_\_\_\_  
My Commission expires \_\_\_\_\_ Representing TEXAS PACIFIC COAL AND OIL COMPANY  
Category or Officer \_\_\_\_\_  
Address \_\_\_\_\_

## FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	240	240	Clay & Caliche
240	315	75	Caliche & Rock
270	315	45	Red Shale
315	1248	933	Red Bed
1248	1295	47	Shale
1295	1380	85	Red Bed & Shells
1380	1420	40	Red Bed & Red Rock
1420	1470	50	Red Rock
1470	1505	35	Red Bed, Anhydrite & Shells
1505	1612	107	Anhydrite
1612	1700	88	Anhydrite ; Salt
1700	1775	75	Anhydrite, Salt, Shells
1775	2830	1055	Anhydrite & Galt
2830	2870	40	Galt & Salt
2870	2960	90	Anhydrite
2960	2975	15	Ory
2975	3015	37	Anhydrite & Ory
3015	3040	25	Anhydrite & Lime
3040	3125	85	Lime
3125	3153	28	Lime ; Ory
3153	3165	12	Lime
3165	3306	141	Lime & Ory
3306	3312	6	Lime & Chert
3312	3840	528	Lime
TOTAL DEPTH		3840	



## FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	35	35	Galiche
35	165	130	Sand shale, shells
165	276	111	Shale, shells
276	300	24	Red bed, shells
300	466	166	Red rock, shells
466	516	50	Red bed, shells
516	805	289	Red rock, shells
805	1446	641	Red rock
1446	1530	84	Anhydrite
1530	2978	1448	Anhy. & salt
2970	3081	111	Anhydrite
Bore 50' off at 3081', plugged back to 2810' with 250 sacks of Liner Cement to straighten up hole.			
2810	2893	83	Anhydrite
2893	2942	49	Salt, anhy., shells
2942	2971	29	Anhydrite
2971	2980	109	Anhy., salt, cement
2980	3005	25	Anhydrite
3005	3041	36	Anhy., Gyp.
3041	3071	30	Anhydrite
3071	3105	34	Anhy., Gyp.
3105	3164	61	Anhydrite
3164	3310	146	Anhy., Lime
3310	3860	550	Lime
TOTAL DEPTH 3860'.			

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SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

Form C-105  
Revised 11-1-6

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

SA. Indicate Type of Lease State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>											
S. State Oil & Gas Lease No. NM-2A											
7. Unit Agreement Name											
8. Form or Lease Name State "A" A/c-2											
9. Well No. 63											
10. Field and Pool, or Wildcat Jalmat											
11. County Lea											
12. Date Spudded 5-29-77		13. Date T.D. Reached 6-5-77		14. Date Compl. (Ready to Prod.) 9-2-77		15. Elevations (H.F., R.A.B., RT, GR, etc.) 3569' GR		16. Elev. Casinthead			
17. Total Depth 3700'		18. Plug Back T.D. 3638'		19. If Multiple Compl., How Many		20. Intervals Drilled By → X		21. Rotary Tools Cable Tools			
22. Producing Interval(s), of this completion - Top, Bottom, Name 3182'-3584' Yates-Seven Rivers										23. Was Directional Survey Made No	
24. Type Electric and Other Logs Run GR CN & DL										25. Was Well Cored No	
26. CASING RECORD (Report all strings set in well)										27. Was Well Cored No	
Casing Size 8 5/8"		Weight Lb./Ft. 24		Depth Set 807'		Hole Size 12 1/4"		Cementing Record 500 sx. Class "C"		Amount Pulled	
5 1/2"		14		3700'		7 7/8"		1425 sx. Class "C"			
28. LINER RECORD										29. TUBING RECORD	
Size Top Bottom		Bottom Sacks Cement		Screen		Size 2 3/8"		Depth Set 3580'		Packer Set	
30. PRODUCTION											
Date First Production 6-21-77		Production Method (Flowing, gas lift, pumping - size and type pump) Flowing						Well Status (Prod. or Shut-in) Shut In			
Date of Test 9-2-77	Hours Tested 4 Hours	Choke Size 3/4"	Prod'n. For Test Period Calculated 24-Hour Rate	Oil - Bbl. 0	Gas - MCF CAOF 836	Water - Bbl. 0	Cum - Bbl.				
Flow Tubing Press. 109 psia	Gaging Pressure	Calculated 24-Hour Rate	Oil - Bbl. →	Gas - MCF	Water - Bbl.	Cum - Bbl.	Oil Gravity - API (Corr.)				
34. Disposition of Gas (Sold, used for fuel, vented, etc.) Vented										Test Witnessed by	
35. List of Attachments Deviation Survey Form C-122											
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 <i>J.W. Schroeder</i>		TITLE Area Engineer		DATE 9-14-77							

### INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than \_\_\_\_\_ days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radioactivity 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 also 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 state land, where six copies are required. See Rule 1105.

### INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

#### Southeastern New Mexico

T. Anhy	1470	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	1660	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	2965	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates	3136	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	3328	T. Devonian	T. Menefee	T. Madison
T. Queen	3696	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg		T. Montoya	T. Mancos	T. McCracken
T. San Andres		T. Simpson	T. Gallup	T. Ignacio Qtzite
T. Glorieta		T. McKee	Base Greenhorn	T. Granite
T. Paddock		T. Ellenburger	T. Dakota	T.
T. Blanebry		T. Gr. Wash	T. Morrison	T.
T. Tubb		T. Granite	T. Todilto	T.
T. Drinkard		T. Delaware Sand	T. Entrada	T.
T. Abo		T. Bone Springs	T. Wingate	T.
T. Wolfcamp		T.	T. Chinle	T.
T. Penn.		T.	T. Permian	T.
T. Cisco (Bough C)		T.	T. Penn. "A"	T.

#### OIL OR GAS SANDS OR ZONES

No. 1, from.....	to.....	No. 4, from.....	to.....
No. 2, from.....	to.....	No. 5, from.....	to.....
No. 3, from.....	to.....	No. 6, from.....	to.....

#### IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....	to.....	feet.....
No. 2, from.....	to.....	feet.....
No. 3, from.....	to.....	feet.....
No. 4, from.....	to.....	feet.....

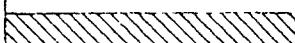
#### FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	817	817	Redbed & Sand				
817	3150	2333	Anhy				
3150	3700	550	Lime				

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U.S.G.S.	
LAND OFFICE	
OPERATOR	

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

Form C-105  
Revised 10-1-84

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/> For <input type="checkbox"/>	
5b. State Oil & Gas Lease No.	
	

5c. Unit Agreement Name							
5d. Farm or Lease Name							
5e. Well No.							
5f. Unit Agreement Name							
5g. Farm or Lease Name							
5h. Well No.							
5i. Unit Agreement Name							
5j. Farm or Lease Name							
5k. Well No.							
5l. Unit Agreement Name							
5m. Farm or Lease Name							
5n. Well No.							
5o. Unit Agreement Name							
5p. Farm or Lease Name							
5q. Well No.							
5r. Unit Agreement Name							
5s. Farm or Lease Name							
5t. Well No.							
5u. Unit Agreement Name							
5v. Farm or Lease Name							
5w. Well No.							
5x. Unit Agreement Name							
5y. Farm or Lease Name							
5z. Well No.							
6. TYPE OF WELL							
OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input type="checkbox"/>	OTHER _____				
7. TYPE OF COMPLETION	WORK OVER <input type="checkbox"/>	DEEPCHEM <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	OTHER _____		
8. Name of Operator							
Sun Exploration & Production Co.							
9. Address of Operator:							
P. O. Box 1861, Midland, TX 79702							
10. Location of Well							
UNIT LETTER	K	LOCATED	2615 FEET FROM THE	South	LINE AND 1345 FEET FROM		
LINE OF SEC.	9	TWP. 22-S REC. 36-E	SW 1/4		12. COUNTY		
THE West					Lea		
13. Date Started	14. Date T.D. Reached	15. Date Compl. (Ready to Prod.)	16. Elevations (DE, RKB, RT, GR, etc.)	17. Elev. Casheinghead			
9/14/83	9/17/83	10/12/83	3579.8' GR				
18. Total Depth	19. True Total T.D.	20. Multiple Comple., How Many	21. Intervals Poured By	22. Rotary Tools	Cable Tools		
3900	3890			X			
23. Production Interval, or other completion - Top, Bottom, Name 3659-3900' Queen					24. Was Directional Survey Made Yes		
25. Was Well Cored No							
26. Type Casing and liner used CNL							
27. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT LB. FT.	DEPTH SET	HOLE SIZE	CLEMENTING RECORD			
8-5/8	24#	598	12-1/4	375 SXS	AMOUNT PULLED None		
5-1/2	14#	3900	7-7/8	950 SXS	None		
28. LINER RECORD							
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	29. TUBING RECORD		
					SIZE DEPTH SET PACKER SET 2 7/8 3700 3700		
30. Indication over all (Interval, size and number) 3772-3834 1 JSPF 59 holes 4" OD CG, 22 GC							
31. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 3772-3834 Acdz w/ 3000 gals 15% NEFE HCL							
32. PRODUCTION Date First Production 10/11/83 Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing Well Status (Prod. or Shut-in) Prod.							
Date of Test 10/18/83	Hours Tested 24 hrs	Choke Size 24/64	Prod'n. For 1st Period	Oil - Bbl. 99	Gas - MCF 22	Water - Bbl. 0	Gas - Oil Ratio 222/1
Flow Tubing Pressure 120	Casing Pressure Calculated 24-hour static			Gas - MCF	Water - Bbl.		Oil Gravity - API (Corr.) 35.1°
34. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold						Test Witnessed By Elmer Tee	
35. List of Attachments C-104							
36. I hereby certify that the information given on both sides of this form is true and complete to the best of my knowledge and belief.							
SIGNED 	TITLE Sr. Acct. Asst.			DATE 10/20/83			

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 6 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of oil-electrical and resistivity 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 also be reported. For multiple completions, items 30 through 34 shall be reported for each zone. The form is to be filed in quadruplicate except on state land, where six copies are required, (see Rule 1185).

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

T. Anhy	1432	T. Canyon
T. Salt		T. Strawn
B. Salt		T. Atoka
T. Yates	3117	T. Miss
T. 7 Rivers	3303	T. Devonian
T. Queen	3659	T. Silurian
T. Grayburg		T. Montoya
T. San Andres		T. Simpson
T. Glorieta		T. McKee
T. Paddock		T. Ellerburger
T. Blaneberry		T. Cr. Wash
T. Tubb		T. Granite
T. Driskard		T. Delaware Sand
T. Abe		T. Bone Springs
T. Welfcamp		T. <u>Tansill</u> 2950
T. Premon		T.
T. Cisco (Bough C)		T.

Northwestern New Mexico

T. Ojo Mamo		T. Penn. "B"
T. Kirkland-Fruitland		T. Penn. "C"
T. Pictured Cliffs		T. Penn. "D"
T. Cliff House		T. Leadville
T. Menefee		T. Madison
T. Point Lookout		T. Elbert
T. Mancos		T. McCracken
T. Gallup		T. Ignacio Qzite
Base Greenhorn		T. Granite
T. Dakota		T.
T. Morrison		T.
T. Todito		T.
T. Entrada		T.
T. Wingate		T.
T. Choute		T.
T. Permian		T.
T. Penn. "A"		T.

OIL OR GAS SANDS OR ZONES

No. 1, from..... 3772 ..... to..... 3834 ..... No. 4, from..... to.....

No. 2, from..... to..... No. 5, from..... to.....

No. 3, from..... to..... No. 6, from..... to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from..... to..... feet. ....

No. 2, from..... to..... feet. ....

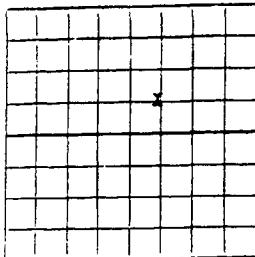
No. 3, from..... to..... feet. ....

No. 4, from..... to..... feet. ....

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
1432	2950	1518'	Anhydrite, Thin Shales				
2950	3117	167'	Dolomite, Sandstone, Sandy Dolomites				
3117	3303	186'	Dolomites, Sandy Dolomites, Dolomite Sands				
3303	3659	356'	Sandstone with interbedded Dolomites				
3659	3890	231'	Sandstone with interbedded Dolomites, Thin Shales				

OCT 24 1983  
ROBB'S O.C.D.  
OFFICE

NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

Feb 17 1964

## WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLETCATE. If State Land submit 6 Copies

AREA 600 ACRES  
LOCATE WELL CORRECTLYTexas Pacific Oil Company  
(Company or Operator)

State "A" A/c-2

(Lessor)

Well No. 57, in NE 1/4 of SW 1/4, of Sec. 9, T. 22-S, R. 36-E, NMPM.

South Boundary Pool, Less County.

Well is 1980 feet from North line and 1980 feet from East line

of Section 9. If State Land the Oil and Gas Lease No. is 7983

Drilling Commenced January 21, 1964. Drilling was Completed January 30, 1964.

Name of Drilling Contractor F.W.A. Drilling Company

Address Wichita Falls, Texas

Elevation above sea level at Top of Tubing Head 3565 ft. The information given is to be kept confidential until 19.

## OIL SANDS OR ZONES

No. 1, from 3755 to 3780'. No. 4, from .....

No. 2, from .....

No. 3, from .....

No. 5, from .....

No. 6, from .....

## IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ....., to ....., feet .....

No. 2, from ....., to ....., feet .....

No. 3, from ....., to ....., feet .....

No. 4, from ....., to ....., feet .....

## CASING RECORD

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF END	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
8-5/8"	324.26#	New	325'	Float			Surface
5-1/2"	174.15.5#	New	3796'	Float	3755-3780'		Production

## MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHICH END	NO. LACERS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
12-1/4"	8-5/8"	335"	300 + 45 Gal	Pump & Plug		
7-7/8"	5-1/2"	3806"	250 45 Gal	Pump & Plug		

## RECORD OF PRODUCTION AND STIMULATION

(Record the Process used, No. of Qu. or Gal. used, interval treated or shot.)

Perforated 3755', 3757', 3765', 3773' &amp; 3780'. Ran Baker Full bore packer and acidized with 1000 gals. mud acid. Sand-sol treated with 20,000 gal. oil &amp; 40,000# sand w/Adomite.

Result of Production Stimulation... Pumped 70 BO and 8 MM. GOR 886/l. Treated 2/8/64.

Depth Cleaned Out 3806 RTM

## RECORD OF DRILL-STEM AND SPECIAL : TS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto

## TOOLS USED

Rotary tools were used from Surface feet to 3806 RTM feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.  
 Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.

## PRODUCTION

Put to Producing February 1, 1964.

OIL WELL: The production during the first 24 hours was 78 barrels of liquid of which 90 % was oil; 0 % was emulsion; 10 % water; and 0 % was sediment. A.P.I. Gravity 35°.

GAS WELL: The production during the first 24 hours was \_\_\_\_\_ M.C.F. plus \_\_\_\_\_ barrels of liquid Hydrocarbon. Shut in Pressure \_\_\_\_\_ lbs.

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.....	<u>1464</u>	T. Devonian.....	T. Ojo Alamo.....
T. Salt.....	<u>1680</u>	T. Silurian.....	T. Kirtland-Fruitland.....
B. Salt.....	<u>2880</u>	T. Montoya.....	T. Farmington.....
T. Yates.....	<u>3130</u>	T. Simpson.....	T. Pictured Cliffs.....
T. 7 Rivers.....	<u>3321</u>	T. McKee.....	T. Menefee.....
T. Queen.....	<u>3696</u>	T. Ellenburger.....	T. Point Lookout.....
T. Grayburg.....		T. Gr. Wash.....	T. Mancos.....
T. San Andres.....		T. Granitic.....	T. Dakota.....
T. Glorieta.....		T. ....	T. Morrison.....
T. Drinkard.....		T. ....	T. Penn.....
T. Tubbs.....		T. ....	T. ....
T. Abo.....		T. ....	T. ....
T. Penn.....		T. ....	T. ....
T. Miss.....		T. ....	T. ....

## FORMATION RECORD

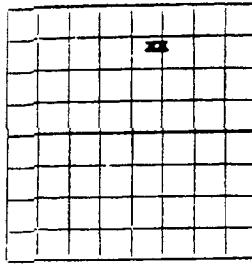
From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
Surface	<u>335</u>	<u>335</u>	Red Bed				
<u>335</u>	<u>1590</u>	<u>1255</u>	Red Bed				
<u>1590</u>	<u>3169</u>	<u>1579</u>	Anhydrite & Salt				
<u>3169</u>	<u>3420</u>	<u>251</u>	Anhydrite & Lime				
<u>3420</u>	<u>3700</u>	<u>280</u>	Lime				
<u>3700</u>	<u>3806</u>	<u>106</u>	Sand & Dolomite				

## 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.

February 14, 1964

Company or Operator Texas Pacific Oil Company Address P.O. Box 1069, Hobbs, New Mexico  
 Name J. M. Matlock Pos. District Chief Clerk



NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLETS. If State Land submit 6 Copies.

AREA 840 ACRES  
LOCATE WELL CORRECTLY

Texas Pacific Coal & Oil Company

State: N.M. (Land)

Well No. 48, in NW 1/4 of NE 1/4, of Sec. 9, T. 22N, R. 36E, NMPM.

South Division Pool, Line County.

Well is 660 feet from North line and 1980 feet from East line  
of Section 9. If State Land the Oil and Gas Lease No. is 186-2A

Drilling Commenced August 22, 1960. Drilling was Completed September 2, 1960.

Name of Drilling Contractor: JMA Drilling Company

Address: Midway Falls, Texas

Elevation above sea level at Top of Tubing Head 3577. The information given is to be kept confidential until 19

OIL SANDS OR ZONES

No. 1, from 3770 to 3817. No. 4, from \_\_\_\_\_ to \_\_\_\_\_

No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_

No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ feet \_\_\_\_\_

No. 2, from \_\_\_\_\_ to \_\_\_\_\_ feet \_\_\_\_\_

No. 3, from \_\_\_\_\_ to \_\_\_\_\_ feet \_\_\_\_\_

No. 4, from \_\_\_\_\_ to \_\_\_\_\_ feet \_\_\_\_\_

CASING RECORD

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF SEAL	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
8-5/8	21#	New	320	Fleet			Surface
5-1/2	14#	New	3760	Fleet			Production String

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. BAGS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
11	8-5/8	230	300 + 45 Gal	Pump & Plug		
7-7/8	5-1/2	3770	250 + 45 Gal	Pump & Plug		

RECORD OF PRODUCTION AND STIMULATION

(Record the Process used, No. of Qts. or Gals. used, interval treated or shot.)

Open Hole Vibro-Fractured 8 3790-96' with 3 No. 3 Charges.

Sand Oil Treat w/20,000 gals. refined oil & 20,000# sand.

Result of Production Stimulation...Bubbled 60 bbls. oil, 20 bbls. water in 7 hrs.

Tested on 9/15/60.

Depth Cleaned Out 3817 FT

## RECORD OF DRILL-STEM AND SPECIAL TEST

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

## TOOLS USED

Rotary tools were used from..... 0 feet to..... 3817 ftm. feet, and from..... feet to..... feet.  
Cable tools were used from..... feet to..... feet, and from..... feet to..... feet.

## PRODUCTION

Put to Producing..... September 15..... 19... 60.

OIL WELL: The production during the first 24 hours was..... 80..... barrels of liquid of which..... 75..... % was  
was oil; ..... 0..... % was emulsion; ..... 25..... % water; and..... 0..... % was sediment. A.P.I.  
Gravity..... 35°.

GAS WELL: The production during the first 24 hours was..... M.C.F. plus..... barrels of  
liquid Hydrocarbon. Shut in Pressure..... lbs.

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.....	<u>1502</u>	T. Devonian.....	T. Ojo Alamo.....
T. Salt.....	<u>1734</u>	T. Silurian.....	T. Kirtland-Fruitland.....
B. Salt.....	<u>2975</u>	T. Montoya.....	T. Farmington.....
T. Yales.....	<u>3153</u>	T. Simpson.....	T. Pictured Cliffs.....
T. 7 Rivers.....	<u>3391</u>	T. McKee.....	T. Menifee.....
T. Queen.....	<u>3770</u>	T. Ellenburger.....	T. Point Lookout.....
T. Grayburg.....		T. Gr. Wash.....	T. Mancos.....
T. San Andres.....		T. Granite.....	T. Dakota.....
T. Glorieta.....		T. ....	T. Morrison.....
T. Drinkard.....		T. ....	T. Penn.....
T. Tubb.....		T. ....	T. ....
T. Abo.....		T. ....	T. ....
T. Penn.....		T. ....	T. ....
T. Miss.....		T. ....	T. ....

## FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	336	336	Caliche, Sand & Red Bed				
336	1122	786	Red Bed				
1122	1530	408	Anhy. Red Bed				
1530	2861	1331	Anhy. & Salt				
2861	3182	321	Anhyd. Linc				
3182	3404	222	Linc & Sand				
3404	3729	315	Linc				
3729	3743	24	Linc & Sand				
3743	3757	14	Linc				
3757	3770	13	Linc & Sand				
3770	3817	47	Linc				

## 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.

September 27, 1960

Company or Operator..... Texas Pacific Coal & Oil Co. Address..... P.O. Box 1688 Hobbs, N. Mex.  
Name..... Petroleum Engineer



## FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATIONS
0	16	16	Surface
16	47	31	Sand
47	1180	1133	Sand, Red Bed
1180	1510	330	Red Bed, Shells
1510	1750	240	Anhydrite, Shells
1750	1880	130	Anhydrite, Red Rock, Shales
1880	1985	105	Anhydrite, Red Bed
1985	2050	65	Red Bed
2050	2165	115	Salt
2165	2480	295	Anhydrite, Salt
2480	2485	5	Salt
2485	2565	80	Salt, Shells
2565	2645	80	Salt
2645	2790	125	Salt, Anhydrite, Shells
2790	2920	130	Salt, Shells
2920	2940	20	Salt
2940	2980	40	Salt, Anhydrite
2980	3030	50	Anhydrite, Gyp
3020	3085	65	Anhydrite
3085	3145	60	Sandy Lime
3145	3166	21	Lime, Anhydrite
3166	3285	119	Anhydrite
3285	3380	95	Gyp, Anhydrite
3380	3409	25	Anhydrite
3409	3425	16	Anhydrite, Sandy Lime
3425	3845	420	Lime
DRILLED TO 3845' and PB to 3823'			
Completed for Gas Well and Shut In.			
Drill Stem Test : 3448 to 3580' open 40 min - 750# pressure - 1" Ch.Tip - 5/8" bottom - Sweet gas to surface in 20 min. Tested 10 MCF. Recovered 380' of gas out mud and 200' Black Salt water.			

**NEW MEXICO OIL CONSERVATION COMMISSION**

Santa Fe, New Mexico

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OPERATOR	

## **WELL RECORD**

A blank 10x10 grid for drawing or plotting points.

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in **QUINTUPLETS**. If State Land submit 5 Copies.

Texas Pacific Oil Company

~~State~~ ~~A/B/C/D/E/F/G/H/I/J/K/L/M/N/O/P/Q/R/S/T/U/V/W/X/Y/Z~~

Well Name \_\_\_\_\_ in \_\_\_\_\_ ½ acre \_\_\_\_\_ % of Sec. \_\_\_\_\_ T. 22-8 R. 36-8 NMPM.

South Unite \_\_\_\_\_ Pool, \_\_\_\_\_ itea \_\_\_\_\_ County.

Well is 1760 feet from south line and 2080 feet from west line  
of Section 1. If State Land the Oil and Gas Lease No. is K-983

Drilling Commenced October 21, 1964. Drilling was Completed October 21, 1964.

Name of Drilling Contractor: McArdle Drilling Company

Address \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

The information above is to be kept confidential until

<sup>19</sup> The elevation given is to be kept confidential until

OIL SANDS OR ZONING

No. 1, from 3-70 to 3-737 No. 4, from..... to.....

No. 2, from ..... to ..... No. 3, from ..... to .....

No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

#### **IMPORTANT WATER SANDS**

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ..... to ..... feet.

No. 2, from \_\_\_\_\_ to \_\_\_\_\_ feet.

No. 3, from feet

第二章 财务管理与企业价值

Casing Record							
Size	Weight per Foot	New or Used	Amount	Kind of Edge	Cut and Pulled From	Perforations	Purpose
7-5/8"	26.8	New	312'	Float			Surface Production
4-1/2"	5.58	New	3660'	Float		3670-3737	

MURRING AND CEMENTING BECOMES

SIZE OF HOLE	SIZE OF CASING	WHEEL SET	NO. BAGS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
11"	7-5/8"	128°	250 bags.	Pump & Plug		Circulated
6-3/4"	6-1/2"	1870°	300 bags.	Pump & Plug		

**RECORD OF PRODUCTION AND STIMULATION**

(Record the Process used, No. of Qts. or Gals. used, interval treated or shot.)

acidized w/1000 gal. SOT w/25,000 gal. ref. oil & 25,000# sand with 1/4# \*dolomite.

Results of Production Stimulation 24 bbls, new oil & 65 BW

...Dent Cleared Out...

**RECORD OF DRILL-STEM AND SPECIAL TESTS**

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

## TOOLS USED

387  
Rotary tools were used from.....feet to.....feet, and from.....feet to.....feet.  
Cable tools were used from.....feet to.....feet, and from.....feet to.....feet.

## PRODUCTION

December 4, 64  
Put to Producing..... 19.....

OIL WELL: The production during the first 24 hours was..... barrels of liquid of which..... % was  
was oil; ..... % was emulsion; ..... % water; and..... % was sediment. A.P.I. 73

GAS WELL: The production during the first 24 hours was..... M.C.F. plus..... barrels of liquid Hydrocarbon. Shut in Pressure..... lbs.

**Length of Time Shut in.....**

PLEASE INDICATE BELOW FORMATION TOPS (IN FEET)

Length of Time Shut in.....

PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE)

Rustler	PPX	1416	Southeastern New Mexico	Northwestern New Mexico
T. <del>Mail</del>	2959		T. Devonian.....	T. Ojo Alamo.....
T. Salt.....			T. Silurian.....	T. Kirtland-Fruitland.....
B. Salt.....	3125		T. Montoya.....	T. Farmington.....
T. Yates.....	3303		T. Simpson.....	T. Pictured Cliffs.....
T. 7 Rivers.....	3667		T. McKee.....	T. Menifee.....
T. Queen.....			T. Ellenburger.....	T. Point Lookout.....
T. Grayburg.....			T. Gr. Wash.....	T. Mancos.....
T. San Andres.....			T. Granite.....	T. Dakota.....
T. Glorieta.....			T. ....	T. Morrison.....
T. Drinkard.....			T. ....	T. Penn.....
T. Tubba.....			T. ....	T. ....
T. Abo.....			T. ....	T. ....
T. Penn.....			T. ....	T. ....
T. Miss.....			T. ....	T. ....

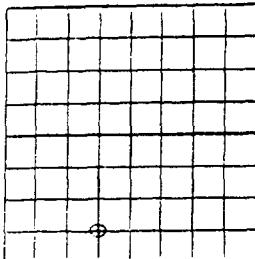
**FORMATION RECORD**

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
Surface	332	332	Sand & Red Bed				
332	1328	996	Red Bed & Anhydrite				
1328	2028	700	Red Bed, Anhyd. & Salt				
2028	2829	801	Anhydrite & Salt				
2829	3870	1041	Anhydrite, Gyp & Lime				

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.

Texas Pacific Oil Company P.O. Box 1069, Hobbs, New Mexico



**NEW MEXICO OIL CONSLRvation COMMISSION**  
Santa Fe, New Mexico

**WELL RECORD**

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLETCATE. If State Land submit 6 Copies

AREA 640 ACRES  
LOCATE WELL CORRECTLY

**Gulf Oil Corporation**

(Company or Operator)

J. P. Janda PFP NCT-1  
(Lessor)

Well No. 10, in SE  $\frac{1}{4}$  of SW  $\frac{1}{4}$ , of Sec. 4, T. 22-S, R. 36-E, NMPM.

South Dunice Pool, Lea County.

Well is 660 feet from South line and 1980 feet from West line

of Section 4-22-36. If State Land the Oil and Gas Lease No. is R-229-1

Drilling Commenced 4-21, 1957. Drilling was Completed 5-3, 1957

Name of Drilling Contractor Howard P. Holmes Drilling Company

Address Box 695 Hobbs, New Mexico

Elevation above sea level at Top of Tubing Head 3600! The information given is to be kept confidential until

—, 19—

**OIL SANDS OR ZONES**

No. 1, from 3776! to 3842! No. 4, from .....

No. 2, from .....

to .....

No. 3, from .....

to .....

No. 6, from .....

**IMPORTANT WATER SANDS**

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from .....

to .....

feet .....

No. 2, from .....

to .....

feet .....

No. 3, from .....

to .....

feet .....

No. 4, from .....

to .....

feet .....

**CASING RECORD**

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF END	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
8-5/8"	24#	New	120'	HOMCO			Surface Pipe
5-1/2"	14#	New	3844'	"	3776-3842'		Production String

**MUDGING AND CEMENTING RECORD**

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FT	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
12-1/4"	8-5/8"	4331	325	Pump & Plug		
7-7/8"	5-1/2"	38601	1265	Pump & Plug		

**RECORD OF PRODUCTION AND STIMULATION**

(Record the Process used, No. of Qu. or Gals. used, interval treated or shot.)

Spotted 500 gallons mud acid on perforations 3776-3842!

Treated formation thru perforations from 3776-3842' with 10,000 gallons refined oil with 1# sand per gallon. Pumped 400# mothballs in 14 bbls oil. Treated formation with 5000 gallons refined oil with 1# sand per gallon.

Result of Production Stimulation. Flowed 78 bbls oil and 7 bbls water thru 2-3/8" tubing 24 hours.

Depth Cleaned Out

## CORD OF DRILL-STEM AND SPECIAL TEST

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto

## TOOLS USED

Rotary tools were used from..... 0 feet to..... 3860 feet, and iron..... feet to..... feet.  
 Cable tools were used from..... feet to..... feet, and iron..... feet to..... feet.

## PRODUCTION

Put to Producing..... 5-16..... 19.57.....

OIL WELL: The production during the first 24 hours was..... 85..... barrels of liquid of which..... 92..... was  
water; ..... 0..... % was emulsion; ..... 8..... % water; and..... 0..... % was sediment. A.P.I.

Gravity..... 36.5.....

GAS WELL: The production during the first 24 hours was..... M.C.F. plus..... barrels of  
liquid Hydrocarbon. Shut in Pressure..... lbs.

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.....	T. Devonian.....	T. Ojo Alamo.....
T. Salt.....	T. Silurian.....	T. Kirtland-Fruitland.....
B. Salt.....	T. Montoya.....	T. Farmington.....
T. Yates..... 3143.....	T. Simpson.....	T. Pictured Cliffs.....
T. 7 Rivers..... 3370.....	T. McKee.....	T. Menefee.....
T. Queen..... 3731.....	T. Ellenburger.....	T. Point Lookout.....
T. Grayburg.....	T. Gr. Wash.....	T. Mancos.....
T. San Andres.....	T. Granite.....	T. Dakota.....
T. Glorieta.....	T. ....	T. Morrison.....
T. Drinkard.....	T. ....	T. Penn.....
T. Tubbs.....	T. ....	T. ....
T. Abo.....	T. ....	T. ....
T. Penn.....	T. ....	T. ....
T. Miss.....	T. ....	T. ....

## FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	12		Distance from Top Kelly Drive to Ground				DEVIATION - TOTCO SURVEY
	265		Surface Sand and Caliche				3/4 - 650'
573			Red Bed and Anhydrite				3/4 - 920'
1080			Red Bed				3/4 - 1170
1545			Red Bed and Anhydrite				3/4 - 1338
1605			Anhydrite				3/4 - 1600
2880			Anhydrite and Salt				1/2 - 1840
3121			Anhydrite and Lime				3/4 - 2017
3258			Anhydrite, Gyp and Lime				3/4 - 2270
3477			Lime and Anhydrite				1-1/4 - 2525
3515			Lime, Anhydrite and Gyp				2-1/2 - 2850
3557			Lime and Anhydrite				1-3/4 - 2880
3673			Lime				1-3/4 - 2985
3758			Lime and Dolomite				1-1/2 - 3050
3860			Lime				1-1/2 - 3106
							1-1/4 - 3205
							1 - 3460
							1 - 3550
							1-1/4 - 3650
							1/2 - 3770

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.

July 15, 1957

Company or Operator..... Gulf Oil Corporation..... Address..... Box 2167, Hobbs, New Mexico..... Date.....

Name..... C. F. TAYLOR..... Position..... Area Supt. of Prod.....

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

HLSBS OFFICE

WELL RECORD

Mail or Oil Conservation Commission, Santa Fe, New Mexico, or its proper agent will have this record delivered to him at time of well. Failure to return to the State and Return of the Commission, indicates unclaimed data by lessee, or owner (1). **REMINITY IN THIS CERTIFICATE.**

AREA FOR ACTS  
LOCATE WELL EXACTLY

TEXAS PACIFIC COAL AND OIL COMPANY

P.O. Box 2110, Ft. Worth, Texas

Name of Operator \_\_\_\_\_ Address \_\_\_\_\_

State "A" Act 2 Well No. 23 Date of Rec. 8 Month 11 Year 1942

R. 36-X Sec. N. M. P. M. So. Bunkie Field, \_\_\_\_\_ Location, Sec. 6 County, \_\_\_\_\_

Well No. 1980 feet south of the North Line and 660 feet west of the East Line of Sec. 6

If State land the oil and gas issue is No. 2-A Assignment No. \_\_\_\_\_

If patented land the owner is \_\_\_\_\_ Address \_\_\_\_\_

If Government land the permittee is \_\_\_\_\_ Address \_\_\_\_\_

The lessee is \_\_\_\_\_ Address \_\_\_\_\_

Drilling commenced November 4, 1942 Drilling was completed November 27, 1942

Name of drilling contractor, T. P. & G. O. Co. Address \_\_\_\_\_

Elevation above sea level at top of casing, 3851 feet.

The information given is to be kept confidential until December 9, 1942

OIL SANDS OIL SODER

No. 1, from	3469	to	3470	No. 4, from	3654	to	3690
No. 2, from	3521	to	3545	No. 5, from	3750	to	3781
No. 3, from	3583	to	3613	No. 6, from	3789	to	3816
				No. 7, from	3827	to	3870

IMPORTANT WATER BATHON

Indicate date on rate of water inflow and elevation to which water rose in hole.

No. 1, from	10	feet.
No. 2, from	10	feet.
No. 3, from	10	feet.
No. 4, from	10	feet.

CARING RECORD

PIPE	THICKNESS	PIPE POINT	YARDAGE PER CHTH	MADE	AMOUNT	KIND OF GRADE	CITY & FILLED FROM	PERFORATED		PURPOSE
								FROM	TO	
10	.40				513'					
7'00	.24				3700					
2"	4.7				3863					
1-2" x 36" Perforated Ripple 3820' to 3851'										

MUDGING AND CLEANSING RECORD

SIZE OF HOLE	TYPE OF CASING	WELL NO.	NO. BACKS OF Casing	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED	
						FROM	TO
10			200				
			250				

PLUG AND ADAPTERS

Heavy plug - Material \_\_\_\_\_ Length \_\_\_\_\_ Depth Set. \_\_\_\_\_

Adapters - Material \_\_\_\_\_ Size \_\_\_\_\_

ENDING OF SHOOTING OR CHEMICAL TREATMENT

PIPE	THICKNESS	PIPE POINT	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH AND OR TREATED		DEPTH CLEARED OFF
						FROM	TO	
				1,000 gals.	12-5-42			
				1,000 "	12-7-42			

Results of shooting or chemical treatment 192 bbls. last 24 hrs.

JOURNAL OF DRILLING AND SPECIAL TESTS

If drill-stems or other special tools or deviation surveys were made, submit report on separate sheet and attach hereto.

TOOL JOURNAL

Rotary tools were used from 0 feet to T.D. feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.

Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.

PRODUCTION

Net production December 9, 1942 barrels of fluid of which % was oil;

The production of the first 24 hours was 322 barrels of fluid of which % was oil;

emulsion, % water, and % sediment. Gravity, No. \_\_\_\_\_

If a well, cu. ft. per 24 hours. Gallons gasoline per 1,000 cu. ft. of gas.

Water pressure, lbs. per sq. in.

PRESSURE

T. P. C. & O. Co. - J. R. Tengue, Eng. Sup., \_\_\_\_\_

Drafter \_\_\_\_\_

Drailler \_\_\_\_\_

FORMATION RECORD ON OTHER SIDE

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.

Subscribed and sworn before me this 12th day of December, 1942.

At Fort Worth, Texas December 12, 1942

Name, John H. Schopfer

Position \_\_\_\_\_

Representing TEXAS PACIFIC COAL AND OIL COMPANY

Address, P.O. Box 2110, Ft. Worth, Texas

County of Tarrant

My Commission expires 6-1-43

## FORMATION RECORD

PHM	TM	THICKNESS IN FEET	FORMATION
0	35	35	Gelish
35	104	69	Sand Shells
104	1077	923	Bed Bed Shells
1027	1132	105	Bed Rock, Shells, Sand
1132	1340	108	Shells & Shale
1340	1400	60	Bed Rock, Anhy, Gyp.
1400	1415	15	Anhydrite
1415	1436	21	Shale & Shells
1436	1465	26	Anhy. Shells, Shales
1442	1550	68	Anhydrite
1550	1582	52	Salt & Anhy.
1582	1777	195	Salt & Anhy. Shells
1777	1785	8	Anhydrite
1785	1875	90	Salt, Anhy. Shells
1875	1890	15	Anhy. & Gyp.
1890	1899	9	Salt
1899	2003	104	Salt & Anhy.
2003	2183	180	Salt & Anhy. Shells
2183	2503	320	Salt & Anhy.
2503	2640	137	Salt, Anhy. Shells
2640	2645	5	Anhydrite
2645	2767	122	Salt & Anhy.
2767	2760	173	Salt, Anhy., Shells
2760	2984	24	Anhy.
2984	3015	31	Anhy. & Gyp.
3015	3071	56	Anhy.
3071	3075	4	Anhy. & Lime
3075	3107	32	Lime
3107	3273	166	Lime & Anhy.
3273	3275	2	Broken Sandy Lime
3275	3316	41	Lime
3316	3341	35	Lime & Sand
3341	3480	142	Lime - Brown lime, oil shales, sand 3469-3470
3480	3488	10	Lime showing gas
3488	3499	10	Lime
3499	3521	22	Lime
3521	3545	24	Lime Oil Gas Sand
3545	3550	5	Lime
3550	3570	20	Lime with gas
3570	3580	10	Lime
3580	3600	5	Sandy Lime
3595	3622	29	Sandy Lime, Oil Gas
3612	3651	17	Lime showing gas
3651	3656	7	Lime
3656	3658	12	Sandy Lime
3650	3652	2	Lime
3652	3654	2	Sandy Lime
3654	3690	36	Broken Lime, Oil, Gas
3690	3700	10	Lime Showing Gas
3700	3715	12	Lime
3715	3724	12	Sandy Lime
3724	3742	18	Lime
3742	3827	88	Sandy Lime - Gas & Oil 3750-81, 3789-3816
3827	3854	27	Brown Lime shows oil & gas
3854	3863	11	Lime, Oil, Gas
3863	3870	5	Sandy Lime, Oil, Gas
TOTAL DEPTH 3670'			



## FORMATION RECORD

FROM	TO	THICKNESS (IN FEET)	FORMATION
0	75'		Surface sand, caliche & shells
	275		Sand, shale and shells
	320		Red bed
	340		Sand
	399		Red sand
	740		Red bed
	1200		Red bed and shells
	1330		Red rock & anhydrite shells
	1486		Anhydrite
	1520		Anhydrite and salt
	2025		Anhydrite
	2035		Anhydrite and salt
	2270		Salt and anhydrite
	2395		Anhydrite and salt
	2740		Anhydrite, salt and red rock
	2850		Anhydrite, lime shells, salt
	2860		Anhydrite, streaks of salt
	2897		Anhydrite and red rock & salt
	2941		Anhydrite and salt
	2947		Anhydrite and gyp
	2986		Anhydrite
	3023		Anhydrite, streaks of lime
	3047		Anhydrite, gyp, lime shells
	3118		Anhydrite
	3126		Lime
	3191		Anhydrite and lime
	3214		Lime, streaks anhydrite
	3250		Anhydrite and lime
	3292		Lime, sandy lime
	3300		Lime and anhydrite
	3670		Reef Dolomite (Total Depth)

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

WELL RECORD

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or its proxy, later not more than twenty days after completion of well. Follow instructions to file with State Tax Auditor of the Commission. All other documents sent by mail to oil conservation commission, Santa Fe, New Mexico.

TENNESSEE PACIFIC COAL AND OIL CO., P. O. Box 2110, Ft. Worth, Texas

Lessor's Name of Operator Address

State No., Ad. 2 Well No. 25 in Mts. of Rec'd. 8 T. 22-S

B. 36-E Co. BURDICK Field. Lee County.

Well No. 660 feet west of the North Line and 660 feet west of the East line of Sec. 8

If State land or oil and gas lease is No. Assignment No.

If patented land the owner is Address

If Government had the permittee is Address

The lessee is Address

Drilling commenced January 23, 1943 Drilling was completed February 11, 1943

Name of drilling contractor T. P. & C. O. Co. Address

Elevation above sea level at top of casing 3595' feet.

The information given is to be kept confidential until

ON MAXIM OR ZONES

No. 1, from	<b>Show</b>	3646	to	3891	No. 4, from	to
No. 2, from		3721	to	3770	No. 5, from	to
No. 3, from		to		No. 6, from	to	

IMPORTANT WATER LAYER

Include date on rate of water inflow and elevation to which water rose in hole.

No. 1, from None to feet.

No. 2, from None to feet.

No. 3, from None to feet.

No. 4, from None to feet.

CAVING RECORD

SIZE	WEIGHT PER FOOT	OPENING DIAMETER	MADE	AMOUNT	KIND OF CAVING	PCT. KILLED	FROM	PERFORATED	PURPOSE
10"				456'					
5"				3701'					
2"	tubing			3847'					

SCOURING AND CEMENTING RECORD

PIPE SIZE IN INCHES	WEIGHT OF CEMENT	NUMBER OF SACKS OF CEMENT	METHOD USED	MUD GROUTED	AMOUNT OF MUD USED
10"	456'	200			
5"	3701'	300			

PLUGS AND ADAPTERS

Having plug - Material \_\_\_\_\_ Length \_\_\_\_\_ Depth Set \_\_\_\_\_  
Adapters - Material \_\_\_\_\_ Size \_\_\_\_\_

RECORD OF SHOOTING OR CHEMICAL TREATMENT

DATE	SPECIAL INDEX	RECOMMENDED OR CHEMICAL TREAT.	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CURED OR TREATED
		Acid	2,000 gals. 2-13-43			

Results of shooting or chemical treatment 264 bbls. after acidization.

RECORD OF DRILL-HITM AND HORIZONTAL THROTS

If drill-hits or other special tests or deviation surveys were made, submit report of separate sheet and attach hereto.

Hollow tools were used from 0 feet to 3835 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.

Put in production February 14, 11:43.  
The production of the first 24 hours was 264 bbls. duration of field of which \_\_\_\_\_% was oil.

Production: \_\_\_\_\_% water; and \_\_\_\_\_% sediment. Gravity: Br. 60.

If oil well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. \_\_\_\_\_

EMPLOYERS

Mr. J. H. Tippins, Disko Mfg. Driller Tennessee Pacific Coal & Oil Company Driller  
Address \_\_\_\_\_ Driller \_\_\_\_\_

FORMATION RECORD ON OTHER SIDE

hereby swear or affirm that the information given beneath is a complete and correct record of the well and all work done on it so far as can be determined from available records to the best of my knowledge & belief.

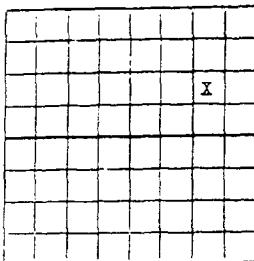
Subscribed and sworn to before me this 20th day of February 1943 Fort Worth, Texas February 20, 1943  
L. A. Hartung Notary Public Name \_\_\_\_\_ Position \_\_\_\_\_ Agent \_\_\_\_\_

Representatives TEEPEE CREEK CO. LTD. AND OIL CO. LTD  
Commissioner \_\_\_\_\_ Date \_\_\_\_\_

## FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	50	50	Caliche
50	352	302	Sand Shells
352	450	98	Red Bed & Shells
450	465	15	Red Bed
465	1180	715	Red Bed & Shells
1180	1323	142	Red Rock
1323	1410	87	Red Rock & Red Bed
1410	1425	15	Red Rock & Anhydrite Shells
1428	1471	43	Anhy. & Shells
1471	1530	59	Anhydrite
1530	1535	5	Salt & Anhy Shells
1535	2966	1030	Salt & Anhy
2966	2993	27	Anhy & Gyp
2993	3068	75	Anhy.
3068	3100	32	Anhy & Gyp
3100	3277	177	Lime Anhydrite
3277	3319	42	Sandy Lime
3319	3369	50	Lime, Gas, Sand
3369	3646	277	Lime
3646	3691	45	Lime showing oil
3691	3721	30	Lime
3721	3790	69	Lime showing oil
3790	3855	65	Lime

TOTAL DEPTH 3855



## NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

## WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLETCATE. If State Land submit 5 Copies.

AREA 500 ACRES  
LOCATE WELL CORRECTLY

Texas Pacific Coal &amp; Oil Company

State "A" A/c-2

(Company or Operator)

Well No. 43, in SE  $\frac{1}{4}$  of NE  $\frac{1}{4}$ , of Sec. 8, T. 22S, R. 36E, NMPM.  
Jalmat Pool, Lea County.  
Well is 1650 feet from North line and 990 feet from East line  
of Section 8. If State Land the Oil and Gas Lease No. is NM-2A  
Drilling Commenced October 14, 1957. Drilling was Completed October 30, 1957  
Name of Drilling Contractor Pico Drilling Company  
Address Breckenridge, Texas  
Elevation above sea level at Top of Tubing Head 3570 Grnd. The information given is to be kept confidential until  
19.

## OIL SANDS OR ZONES

No. 1, from 3180 to 3320 (Gas) No. 4, from.....  
No. 2, from..... to..... No. 5, from..... to.....  
No. 3, from..... to..... No. 6, from..... to.....

## IMPORTANT WATER HANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from..... to..... feet.  
No. 2, from..... to..... feet.  
No. 3, from..... to..... feet.  
No. 4, from..... to..... feet.

## CASING RECORD

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF SETTING	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
8-5/8"	28#	New	318	Guide	-		Surface
5-1/2"	14	New	3318	Fl. Sh-Fl. Col.	-	3180-3200, 3236 3320	Oil

## MUDGING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CANTING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
12	8-5/8	328	300	Pump	9.2	-
7-7/8	5-1/2	3327	250	Pump	9.2	-
4-3/4						

## RECORD OF PRODUCTION AND STIMULATION

(Record the Process used, No. of Qts. or Gal. used, interval treated or shot.)

11/4/57 - 1,000 Mud Acid

11/7/57 - 20,000 Gal. Water &amp; 20,000# sand

Result of Production Stimulation. After Mud Acid 869 MCFPD

After Water Frac 4250 AOF

Depth Cleaned Out.

## RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto

## TOOLS USED

Rotary tools were used from Surface feet to 3640 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.  
 Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.

## PRODUCTION

Put to Producing December 14, 1957

OIL WELL: The production during the first 24 hours was ..... barrels of liquid of which ..... % was  
 was oil; ..... % was emulsion; ..... % water; and ..... % was sediment. A.P.I.

Gravity.....

GAS WELL: The production during the first 24 hours was 4250 M.C.F. plus ..... barrels of  
 liquid Hydrocarbon. Shut in Pressure 1100 lbs.

Length of Time Shut in 72

## PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):

## Southeastern New Mexico

## Northwestern New Mexico

T. Anhy.....	T. Devonian.....	T. Ojo Alamo.....
T. Salt.....	T. Silurian.....	T. Kirland-Fruitland.....
B. Salt.....	T. Montoya.....	T. Farmington.....
T. Yates <u>3112</u>	T. Simpson.....	T. Pictured Cliffs.....
T. 7 Rivers <u>3330</u>	T. McKee.....	T. Menefee.....
T. Queen.....	T. Ellenburger.....	T. Point Lookout.....
T. Grayburg.....	T. Gr. Wash.....	T. Mancos.....
T. San Andres.....	T. Gramic.....	T. Dakota.....
T. Glorieta.....	T. Rustler <u>1398</u>	T. Morrison.....
T. Drinkard.....	T. Tansil <u>2984</u>	T. Penn.....
T. Tubbs.....	T. ....	T. ....
T. Abo.....	T. ....	T. ....
T. Penn.....	T. ....	T. ....
T. Miss.....	T. ....	T. ....

## FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	198	198	Caliche & Sand				
198	1885	1687	Red Bed				
1885	1980	95	Anhydrite & Gyp.				
1980	3190	1210	Anhydrite & Salt				
3190	3296	106	Anhydrite				
3296	4474	1178	Anhydrite & Gyp.				
4474	4554	80	Anhydrite				
4554	4757	203	Anhydrite & Lime				
4757	8214	3457	Lime				
8214	8313	99	Lime & Shale				
8313	9087	774	Lime				
9087	9098	11	Lime & Shale				
9098	10692	1594	Lime				
<u>CONTRACT ROTARY TO TOTAL DEPTH 10,692' RTM</u>							
<u>CEMENT DRILLED OUT 5 1/2" PIPE 10,657' PTD</u>							

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.

January 20, 1958

(Date)

Company or Operator Texas Pacific Coal & Oil Company Address P. O. Box 1688 - Hobbs, N. M.

Name John J. Smith Position or Title District Engineer

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

Form C-105  
Revised 10-1-78

OIL CONSERVATION DIVISION

P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NO. OF COPIES RECEIVED			SA. Indicate Type of Lease	
DISTRIBUTION			State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
SANTA FE			S. State Oil & Gas Lease No.	
FILE				
U.S.G.S.				
LAND OFFICE				
OPERATOR				
1a. TYPE OF WELL		OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input type="checkbox"/>
		PLUG BACK <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	OTHER _____
2. Name of Operator		3. Address of Operator		
Sun Exploration & Production Company		P. O. Box 1861, Midland, Texas 79702		
4. Location of Well		5. County		
UNIT LETTER	K	LOCATED	1410 FEET FROM THE South	LINE AND 1440 FEET FROM
THE West	LINE OF SEC.	9 TWP.	22-S RCE. 36-E NPM	
15. Date Spudded	8-30-83	16. Date T.D. Reached	9-3-83	17. Date Compl. (Ready to Prod.)
18. Elevations (UF, HHR, RT, CR, etc.)	3577.0' GR			19. Elev. Casinghead
20. Total Depth	3900	21. Plug Back T.D.	3890	22. If Multistage Compl., Show Many
23. Intervals Drilled By	Rotary Tools X		Cable Tools	
24. Producing Interval(s), of this completion - Top, Bottom, Name			25. Was Directional Survey Made	
3700-3900 - Queen			Yes	
26. Type Electric and Other Logs Run				
CNL				
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
8-5/8	24#	598	12-1/4	375 SXS
5-1/2	14#	3900	7-7/8	750 SXS
29. LINER RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
				2-3/8
				3848
30. TUBING RECORD				
SIZE	DEPTH SET	PACKER SET		
31. Perforation Record (Interval, size and number)				
3800-3850 w/1JSPF, 51 holes, w/4" ODCG				
3770-3785 w/1JSPF, 14 holes, w/4" ODCG				
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.				
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED			
3800-3850	Acdz w/3000 gals 15% NEPEHCL			
3770-3785	Acdz w/750 gals 15% NEPEHCL			
33. PRODUCTION				
Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)			Well Status (Prod. or Shut-in)
10-26-83	Pumping 1-1/2"			Prod
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl. Gas - MCF Water - Bbl. Gas - Oil Ratio
3-4-84	24 hrs		8	12 196 1500/1
Flow Tubing Press.	Casing Pressure	Calculated 24+ Hour Rate	Oil - Bbl. Gas - MCF Water - Bbl.	Oil Gravity - API (Corr.) 35.80
34. Disposition of Gas (Sold, used for fuel, vented, etc.)			Test Witnessed By	
Sold			Elmer Tee	
35. List of Attachments				
C-104 Inclusion Report				
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	Sr. Accounting Assistant			DATE
<i>Paul A. Karp</i>				3-7-84

### INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. 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 conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 30 through 34 shall be reported for each zone. This form is to be filed in quadruplicate except on state land, where six copies are required. See Rule 1105.

### INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
1230		T. Ojo Alamo	T. Penn. "B"
T. Anhy	T. Canyon	T. Kirkland-Fruitland	T. Penn. "C"
T. Salt	T. Slaton	T. Pictured Cliffs	T. Penn. "D"
B. Salt	T. Atoka	T. Cliff House	T. Leadville
T. Yates	T. Miss	T. Wencfee	T. Madison
T. 7 Rivers	T. Devonian	T. Point Lookout	T. Elbert
T. Queen	T. Silurian	T. Mancos	T. McCracken
T. Grayburg	T. Montoya	T. Gallup	T. Ignacio Qizze
T. San Andres	T. Simpson	Base Greenhorn	T. Granite
T. Glorieta	T. McKee	T. Dakota	T.
T. Paddock	T. Ellenburger	T. Morrison	T.
T. Blanebry	T. Gr. Wash	T. Todito	T.
T. Tubb	T. Granite	T. Entrada	T.
T. Drunkard	T. Delaware Sand	T. Wingate	T.
T. Abo	T. Bone Springs	T. Chinle	T.
T. Wolfcamp	T. Tansill 2968	T. Permian	T.
T. Penn	T.	T. Penn. "A"	T.
T. Cisco (Bough C)	T.		

### OIL OR GAS SANDS OR ZONES

No. 1, from..... 3654 ..... to..... 3842 (Selectively) No. 4, from..... to.....  
 No. 2, from..... to..... No. 5, from..... to.....  
 No. 3, from..... to..... No. 6, from..... to.....

### IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from..... to..... feet.....  
 No. 2, from..... to..... feet.....  
 No. 3, from..... to..... feet.....  
 No. 4, from..... to..... feet.....

### FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
1230	2968		Anhydrite, Salt, Thin Shales				
2968	3117		Sandstone, Dolomite				
3117	3323		Sandstone w/thin interbedded dolomites.				
3323	3740		Sandstone, Dolomite, Dolomitic Sands.				
3740	3937		Sandstone, Dolomite, Sandy Dolomites, Dolomitic Sands.				
3937	4000		Dolomite				

W.H.P. 9  
1984  
HOBES OFFICE

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LAND OFFICE	
OPERATOR	

Form C-105  
Revised 10-6-68

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

SA. Indicate Type of Lease
State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
3. State Oil & Gas Lease No.
B-229-1

III. TYPE OF WELL

OIL WELL <input type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input type="checkbox"/>	OTHER <input type="checkbox"/>
NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	REOPEN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>
DIFF. RESVR. <input type="checkbox"/>	OTHER <input type="checkbox"/>		

4. Name of Operator

Gulf Oil Corp.

P.O. Box 670, Hobbs, NM 88240

4. Location of Well

UNIT LETTER K LOCATED 1325 FEET FROM THE South LINE AND 1330 FEET FROM THE West LINE OF SEC. 4 TWP. 22S RGE. 36E

THE West LINE OF SEC. 4 TWP. 22S RGE. 36E	16. Date Spud	17. Date Casing Run	18. Date Compt. (Ready to Prod.)	19. Clevanence (DP, R.R., R.F., etc.)	20. Elev. Casinghead
12-7-84	12-13-84	12-27-84		3582' GL	-
21. Total Depth	22. Prod. Rock T.D.	23. Production Completion Now	24. Intervals Drilled by	25. rotary Tools	Cable Tools
3970'	3928'	Single	→	0'-39 0"	-

24. Production Intervals, at this completion - Top, Bottom, Name

3726-3844 Queen  
GR-Camp Newton

25. Was Directional Survey Made

No

26. Was Well Cored

No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LBS. FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 1/2"	24#	1550'	12 1/4"	750 cu. - CIRC	
5 1/2"	15.5#	3970'	7 1/8"	700 cu. - TOC 1040'	

LINER RECORD				TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 3/8"	3698'	3698'

27. Perforations, intervals, size and number

3726-30', 3763-67', 3780-84', 3799-3803', 3817-21',  
3840-44 1/2" 1/2" JK

ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
3726-3844'	5000 gallo 15% N.E.P.E.,
	72 PCNB's

28. PRODUCTION

Rate First Production	Rate Production Method (Flowing, gas lift, pumping - size and type pump)	Well Status (Prod. or Shut-in)

Flow Test	Flow Test Date	Flow Rate	Test Method	Oil - BBL.	Gas - MCF	Water - BBL.	Gas - Oil Ratio

Flow Test, Production	Flow Test Date	Flow Rate	Test Method	Oil - BBL.	Gas - MCF	Water - BBL.	Gas - Oil Ratio	Oil Gravity - API (Corr.)

29. Last Surface, if it is cloudy, used for fuel, treated, etc.	Test Witnessed By

30. List of Attachments

31. 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.

32. Signature	Date	Place
R.D.D. +	12-24-84	1-24-84

## INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radioactivity logs run on the well and a summary of all special tests conducted, including drill stem tests. All vertical depths shall be measured originally. In the case of dimensionally drilled wells, the vertical depths shall also be reported. For multiple completions, Items 33 through 34 shall be reported for each zone. The form is to be filed in quadruplicate, except on state land, 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. Anby	1499	T. Canyon		T. Rio Alamo		T. Penn. "B"	
T. Salt	1581	T. Strawn		T. Kirkland-Fruitland		T. Penn. "C"	
B. Salt	3006	T. Atoka		T. Fictured Cliffs		T. Penn. "D"	
T. Yates		T. Miss.		T. Cliff House		T. Leadville	
T. 7 Rivers		T. Devonian		T. Menefee		T. Madison	
T. Queen	379	T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		T. Montoya		T. Maneos		T. McCracken	
T. San Andres		T. Simpson		T. Gallup		T. Ignacio-Ortez	
T. Glorieta		T. McKee		T. Basa-Greenhorn		T. Granite	
T. Puddock		T. Ellenburger		T. Dakota		T.	
T. Bluebry		T. Gr. Wash		T. Morrison		T.	
T. Tubb		T. Granite		T. Todilto		T.	
T. Drinkard		T. Delaware Sand		T. Entrada		T.	
T. Abo		T. Bone Springs		T. Wingate		T.	
T. Wolfcamp		T.		T. Chinle		T.	
T. Penn.		T.		T. Permian		T.	
T. Cisco (Bough C)		T.		T. Penn. "A"		T.	

OIL OR GAS SANDS OR ZONES

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_

No. 3, from ..... to ..... No. 6, from ..... to .....

## IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from..... to..... feet.....

No. 2, iron.....to.....feet.....

No. 3, from \_\_\_\_\_ " to \_\_\_\_\_ feet \_\_\_\_\_

FORMATION RECORD : Attach additional sheets if necessary.

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1499	1499	Redbeds				
1499	1586	87	Anhydrite				
1586	3006	1420	Salt				
3006	3925	919	Dolomite + G.l.s.d.				

Attachment E1:

Supplemental Data for C-108, Section VI: Documentation of Active and  
Temporarily Abandoned Wells

Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION  
2040 Pacheco St.

Santa Fe, NM 87505

WELL API NO. 30-025-28275

5. Indicate Type of Lease  STATE  FEE

6. State Oil & Gas Lease No.

SUNDY 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. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	Water Injection Well	7. Lease Name or Unit Agreement Name State A A/C 2
2. Name of Operator Raptor Resources, Inc.	8. Well No. 66	9. Pool name or Wildcat Eunice SR Queen-South
3. Address of Operator 901 Rio Grande, Austin, Texas 78701		
4. Well Location Unit Letter F : 1345 Feet From The North Line and 1345 Feet From The West Line		
Section 9 Township 22S Range 36E NMPM Lea County		
10. Elevation (Show whether DF, RKB, RT, GR, etc.) GL-3565		

11. 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"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: _____	<input type="checkbox"/>	OTHER: _____	T/A Status Test <input checked="" type="checkbox"/>

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Test Date: 3-14-03

1. Load casing with 2% KCl water and corrosion inhibitor. (Packer @ 3687')
2. Pressure test casing from surface to 3687' to 500 psi for 30 minutes.  
(Record test on chart for OCD subsequent report.)
3. Request TA status for 5 years.

Initial Approval of Temporary  
Abandonment Expires 3/19/08

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

SIGNATURE

*Joel Sisk*

TITLE

Production Foreman

DATE

3-17-03

TYPE OR PRINT NAME

Joel Sisk

(505)

TELEPHONE NO. 394-2574

(This space for State Use)

APPROVED BY

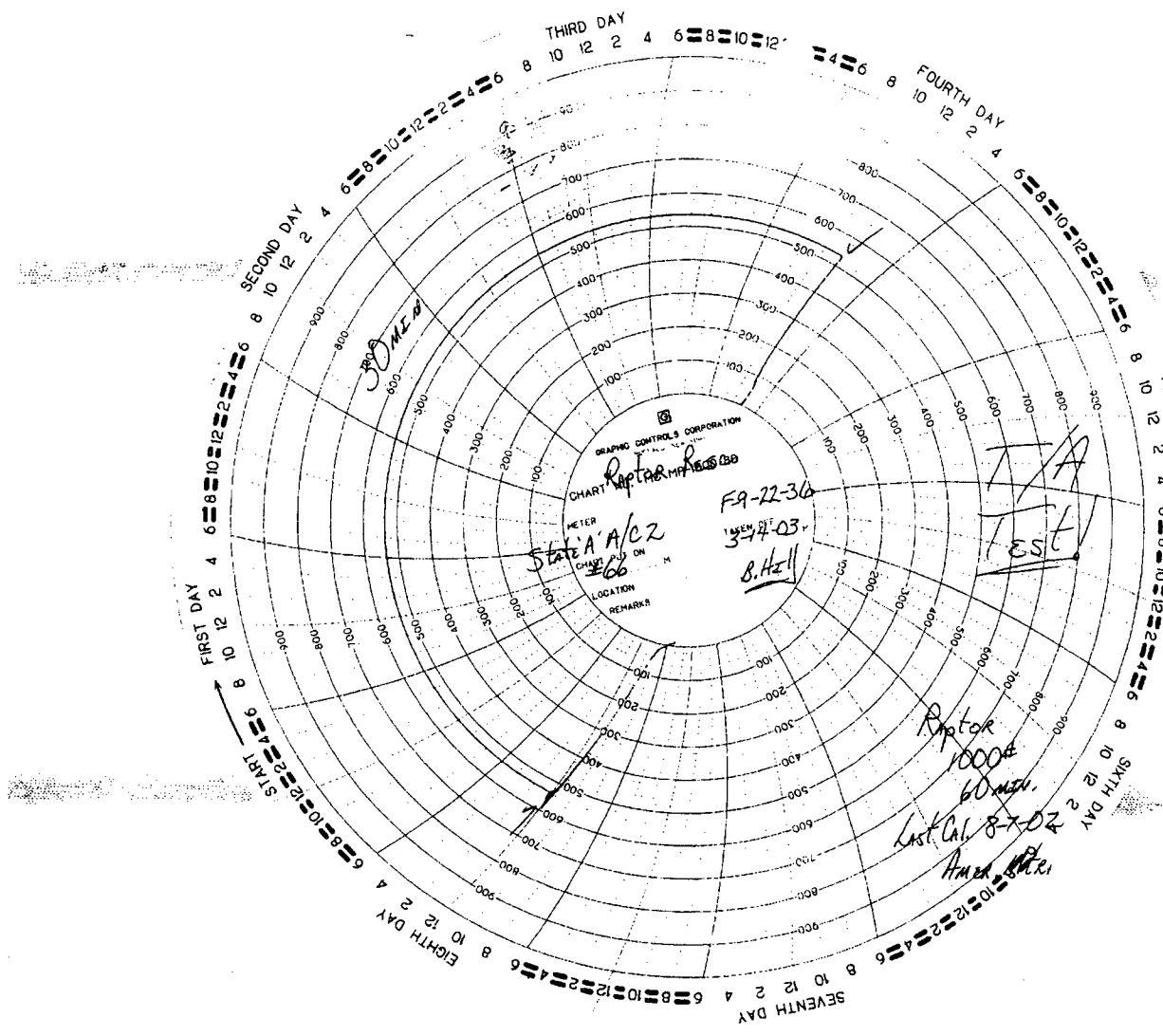
CONDITIONS OF APPROVAL, IF ANY:

ORIGINAL SIGNED BY

GARY W. WINK

OC FIELD REPRESENTATIVE II/STAFF MANAGER

MAR 19 2003



SEARCHED	INDEXED
SERIALIZED	FILED
JULY 12 1983	
SAFETY OFFICE	GENERAL

NEW MEXICO OIL CONSERVATION COMMISSION

API NO. 30-025-28275

Form O-171  
Rev. 6-14-78

A. In the event of loss or damage to this application, a copy of the original application will be furnished upon request.	
STATE <input checked="" type="checkbox"/> CITY <input type="checkbox"/>	
COUNTY <input type="checkbox"/> CITY <input type="checkbox"/>	
C. Date Application Filed	
D. Name of Operator	
E. Name of Location	
F. Well No.	
G. Well No.	
H. Well No.	
I. Well No.	
J. Well No.	
K. Well No.	
L. Well No.	
M. Well No.	
N. Well No.	
O. Well No.	
P. Well No.	
Q. Well No.	
R. Well No.	
S. Well No.	
T. Well No.	
U. Well No.	
V. Well No.	
W. Well No.	
X. Well No.	
Y. Well No.	
Z. Well No.	

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK												
Drill, Deepen, or Plug Back												
b. Type of Well	DRILL <input checked="" type="checkbox"/>	DEEPEN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>									
Oil Well	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
Gas Well	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
Water Well	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
Sun Exploration & Production Co.												
P. O. Box 1861 - Midland, Texas 79702												
4. Landowner's Name	UNIT LETTER	F	LOCATED	1345	FEET FROM THE	North	LINE					
1345	WEST	9	TOP	22-S	SECTION	36-E	BLOCK					
Lea												
5. Depth of Casing												
3565.4' GR	Blanket on file	4000	*	Rotary								
6. Casing and Cement Program												
PROPOSED CASING AND CEMENT PROGRAM												
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP							
12 $\frac{1}{4}$	8-5/8	24#	550	375 sxs	Surface							
7-7/8	5 $\frac{1}{2}$	14#	3900	1100 sxs	Surface							

Blowout preventer: 10" Hydraulic

\*19A. Primary Reservoir - Queen  
Secondary Reservoir - Seven Rivers

APPROVAL VALID FOR 180 DAYS  
PERMIT EXPIRES 12/21/83  
UNLESS DRILLING UNDERWAY

In Above Space Describe Proposed Program: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone, blowout preventer program, if any.

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

Signed Dell Ann Lamp Title Senior Accounting Assistant Date 7-12-83

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON

APPROVED BY Brian J. Supervisor TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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

Form C-105  
Revised 8-1-84

5. Indicate Type of Lease State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>	
6. State Oil & Gas Lease No.	
7. Unit Agreement Name	

8. Type of Completion New Well <input checked="" type="checkbox"/> Workover <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resrv. <input type="checkbox"/> Other _____							
9. Name of Operator <b>Sun Exploration &amp; Production Co.</b>							
10. Address of Operator <b>P.O. Box 1861, Midland, TX 79702</b>							
11. Location of Well UNIT LETTER <b>F</b> LOCATED <b>1345</b> FEET FROM THE <b>North</b> LINE AND <b>1345</b> FEET FROM THE <b>West</b> LINE OF SEC. <b>9</b> TWP. <b>22-S</b> RGE. <b>36-E</b> NMPL							
12. Date Spudded <b>8/19/83</b>	13. Date T.D. Reached <b>8/23/83</b>	14. Date Compl. (Ready to Prod.) <b>9/30/83</b>	15. Elevation (DE, RKB, RT, GR, etc.) <b>3565.4' GR</b>	16. Elev. Cushinghead			
17. Total Depth <b>3900</b>	18. Plug Back T.D. <b>3890</b>	19. If Multiple Compl., How Many Many	20. Intervals Drilled By Rotary Tools	Cable Tools <input checked="" type="checkbox"/>			
21. Producing Interval(s) of this completion - Top, Bottom, Name <b>3698-3900 Queen</b>				22. Was Directional Survey Made <input checked="" type="checkbox"/> Yes			
23. Type Electric and Other Logs Run <b>GR-CCL</b>				24. Was Well Cored <input checked="" type="checkbox"/> No			
25. Casing Record (Report all strings set in well)							
CASING SIZE <b>8-5/8</b>	WEIGHT LB./FT. <b>24#</b>	DEPTH SET <b>567</b>	HOLE SIZE <b>12-1/4</b>	CEMENTING RECORD <b>375 Sxs.</b>		AMOUNT PULLED <b>None</b>	
<b>5-1/2</b>	<b>14#</b>	<b>3900</b>	<b>7-7/8</b>	<b>950 Sxs.</b>		<b>None</b>	
26. Liner Record				JO.	TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE <b>2-3/8</b>	DEPTH SET <b>3850</b>	PACKER SET
27. Perforation Record (Interval, size and number) <b>3862-3877 - 2 JSFP 31 holes w/4" OD 3816-3856 - 1 JSFP 41 holes w/4" OD</b>				28. Acid, Shot, Fracture, Cement Squeeze, Etc. DEPTH INTERVAL <b>3862-3877</b> AMOUNT AND KIND MATERIAL USED <b>Acdz w/ 750 Gals 15% NEFE HCL</b> <b>3816-3856</b> <b>Acdz w/ 2000 Gals 15% NEFE HCL</b>			
29. PRODUCTION							
Date First Production <b>9/20/83</b>	Production Method (Flowing, gas lift, pumping - Size and type pump) <b>1-1/4" Pump</b>				Well Status (Prod. or Shut-in)		
Date of Test <b>10/7/83</b>	Hours Tested <b>24 hrs</b>	Choke Size	Prod'n. For Test Period Calculated 24-hr flow rate →	OIL - Bbl. <b>6</b>	Gas - MCF <b>12</b>	Water - Bbl. <b>15</b>	Gas - Oil Ratio <b>2000/1</b>
Flow Tubing Press.	Casing Pressure		OIL - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
30. Disposition of Gas (Sold, used for fuel, vented, etc.) <b>Sold</b>				Test Witnessed By <b>Linner Tee</b>			
31. List of Attachments <b>C-103</b>							
32. 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 <b>Dee Ann Lamp</b>	TITLE <b>Sr. Acctg. Asst.</b>	DATE <b>10/28/83</b>					

### INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or reopened well. It shall be accompanied by one copy of all electrical and radioactivity logs, a log on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depth, i.e., in the case of directionally drilled wells, true vertical depth shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. This form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

### INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

#### Southeastern New Mexico

T. Anhy	1434	T. Canyon	
T. Salt		T. Strawn	
B. Salt		T. Atoka	
T. Yates	3134	T. Miss	
T. 7 Rivers	3320	T. Devonian	
T. Queen	3698	T. Silurian	
T. Grayburg	3893	T. Montoya	
T. San Andres		T. Simpson	
T. Glorieta		T. McKee	
T. Paddock		T. Ellenburger	
T. Mineberry		T. Gr. Wash	
T. Tubb		T. Granite	
T. Drinkard		T. Delaware Sand	
T. Abo		T. Bone Springs	
T. Wolfcamp		T. Tansill 2963	
T. Penn.		T.	
T. Cisco (Bough C)		T.	

#### Northwestern New Mexico

T. Ojo Alamo		T. Penn. "B"	
T. Kirkland-Fruitland		T. Penn. "C"	
T. Pictured Cliffs		T. Penn. "D"	
T. Cliff House		T. Leadville	
T. Menefee		T. Madison	
T. Point Lookout		T. Elbert	
T. Mancos		T. McCracken	
T. Gallup		T. Ignacio Qtzite	
T. Base Greenhorn		T. Granite	
T. Dakota		T.	
T. Morrison		T.	
T. Todillo		T.	
T. Entrada		T.	
T. Wingate		T.	
T. Chinle		T.	
T. Pennian		T.	
T. Penn. "A"		T.	

#### OIL OR GAS SANDS OR ZONES

No. 1, from	3758	to	3877	No. 4, from	.....	to	.....
No. 2, from	.....	to	.....	No. 5, from	.....	to	.....
No. 3, from	.....	to	.....	No. 6, from	.....	to	.....

#### IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from	.....	to	.....	feet.	.....
No. 2, from	.....	to	.....	feet.	.....
No. 3, from	.....	to	.....	feet.	.....
No. 4, from	.....	to	.....	feet.	.....

#### FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
1434	2963	1529'	Anhydrite, Thin Laminated Shales				
2963	3134	171'	Sandstone, Dolomite, Anhydrite				
3134	3320	186'	Sandstone, Dolomite, Dolomite Sands				
3320	3698	378'	Sandy Dolomites, Sandstone, Dolomite				RECEIVED
3698	3893	195'	Sandstone, Dolomite Sands, Sandy Dolomites				Nov 2, 1943
3893	3900	7'	Thin Interbedded Shales Dolomite				J.C.B. CLERKS OFFICE

Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION  
2040 Pacheco St.  
Santa Fe, NM 87505

WELL API NO.	30-025-08858	
5. Indicate Type of Lease	STATE <input checked="" type="checkbox"/>	FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.		

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)			
1. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER			7. Lease Name or Unit Agreement Name State A A/C 2
2. Name of Operator Raptor Resources, Inc.			8. Well No. 39
3. Address of Operator P.O. Box 160430, Austin, Texas 78716-0430			9. Pool name or Wildcat Eunice 7Rvrs Queen South
4. Well Location Unit Letter C : 990 Feet From The North Line and 1650 Feet From The West Line			
Section 9 Township 22S Range 36E NMPM Lea County			
10. Elevation (Show whether DF, RKB, RT, GR, etc.)			

11. 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"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: _____	<input type="checkbox"/>	OTHER: T/A Test <input checked="" type="checkbox"/>	X

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Test 5/5/99

- Load casing with 2%KCL water and corrosion inhibitor.  
(CIBP set @ 3650' w/35' cement.)
- Pressure casing surface to 3650' 520# for 30 minutes.  
No loss. Chart attatched.
- Request T/A status for 5 years.

This Approval of Temporary  
Operation Expires 10-23-2004

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

SIGNATURE Joel Sisk TITLE Production Foreman DATE 5-17-99

TYPE OR PRINT NAME Joel Sisk TELEPHONE NO. 394-2574

(This space for State Use)

APPROVED BY

APPROVED BY

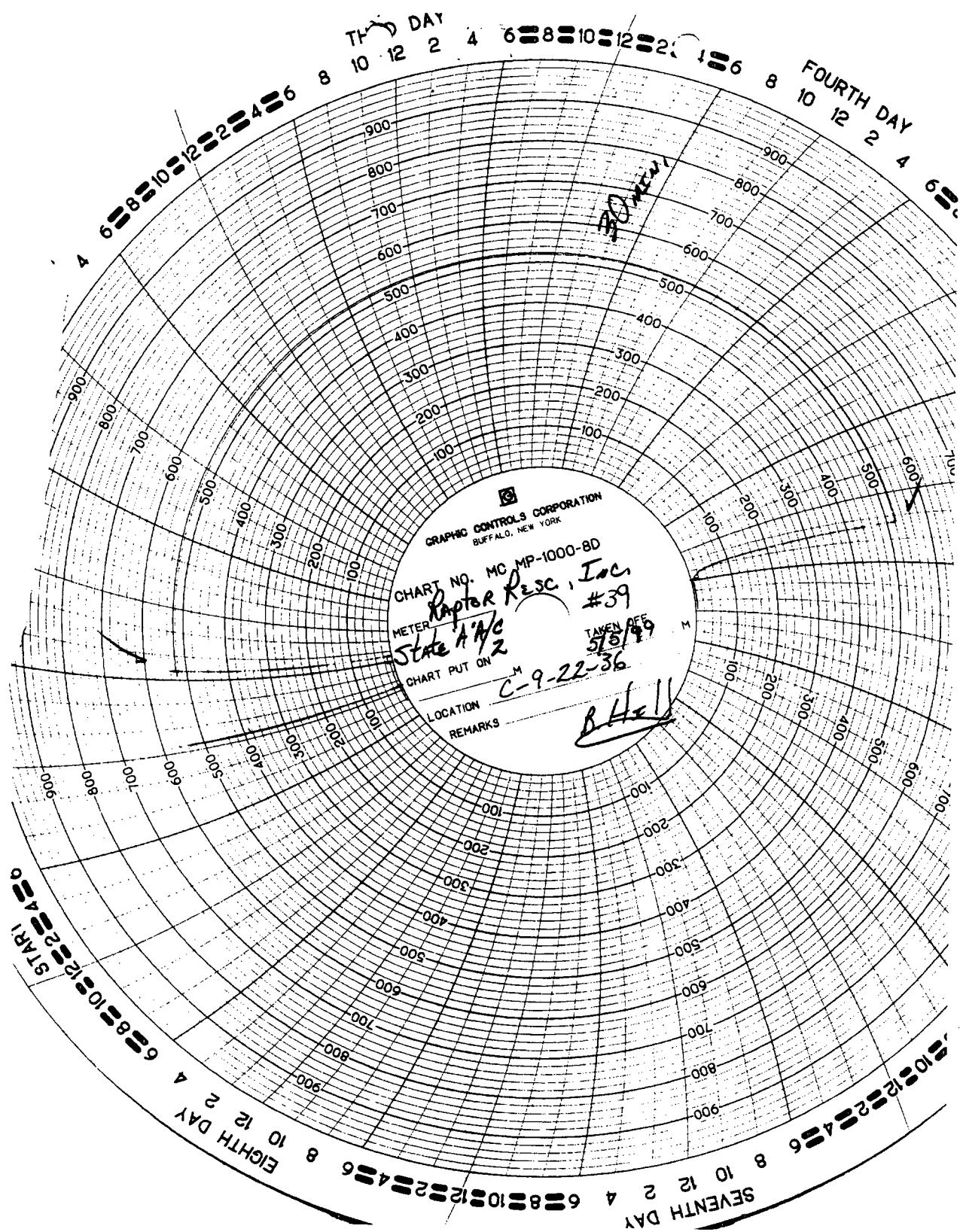
TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

G

10-23-2004



**NEW MEXICO OIL CONSERVATION COMMISSION**  
Santa Fe, New Mexico

**NOTICE OF INTENTION TO DRILL**

Notice must be given to the Oil Conservation Commission or its proper agent and approval obtained before drilling begins. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to the sender. Submit this notice in triplicate. One copy will be returned following approval. See additional instructions in Rules and Regulations of the Commission.

Fort Worth, Texas

January 19, 1948

JAN 21 1948  
OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO  
RECEIVED

DEAN 23 1948

OIL CONSERVATION COMMISSION,  
Santa Fe, New Mexico,

Gentlemen:

You are hereby notified that it is our intention to commence the drilling of a well to be known as TEXAS PACIFIC COAL AND OIL CO., State New Mexico, Well No. 3 in Lease

of Sec. 9, T. 22-8, R. 36-E, N. M. P. M. So. Burnie Field, Lea County.

The well is 990 feet SW of the North line and 1650 feet (E.) NW of the West line of Section.

(Give location from section or other legal subdivision lines. Cross out wrong directions.)

If state land the oil and gas lease is No. \_\_\_\_\_ Assignment No. \_\_\_\_\_

If patented land the owner is \_\_\_\_\_

Address \_\_\_\_\_

If government land the permittee is \_\_\_\_\_

Address \_\_\_\_\_

The lessee is \_\_\_\_\_

Address \_\_\_\_\_

We propose to drill well with drilling equipment as follows: Rotary Tools

The status of a bond for this well in conformance with Rule 39 of the General Rules and Regulations of the Commission is as follows: Required bond on file

We propose to use the following strings of casing and to land or cement them as indicated:

Size of Hole	Size of Casing	Weight Per Foot	New or Second Hand	Depth	Landed or Cemented	Sacks Cement
15	12 1/2	504	S.H.	400	Cemented	165
11	8 5/8	32	New	1600	"	200
7 7/8	5 1/2	14	New	2800	"	500

If changes in the above plan become advisable we will notify you before cementing or landing casing. We estimate that the first productive oil or gas sand should occur at a depth of about \_\_\_\_\_ feet.

Additional information:

Approved JAN 23 1948, 19  
except as follows:

Sincerely yours,

TEXAS PACIFIC CO. & M.D. OIL COMPANY  
Company or Operator

By R. J. DeSoto

Position Agent

Send communications regarding well to

Name R. J. DeSoto

Address P.O. Box 2110, Fort Worth 1, Texas

OIL CONSERVATION COMMISSION  
R. J. DeSoto  
Title Oil & Gas Inspector



## FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	90	90	Caliche, red bed
90	375	285	Shells and sand
375	855	480	Sand and red rock
855	1125	270	Red bed and shells
1125	1160	35	Red bed
1160	1240	80	Sand and shells
1240	1370	130	Rock and shells
1370	1428	58	Rock and gyp
1428	1560	112	Anhydrite and salt
1560	1553	13	Anhydrite and lime
1553	1615	62	Shale
1615	1620	5	Anhydrite and lime
1620	1730	110	Anhydrite and salt
1730	1880	150	Anhydrite, salt and shale
1880	2055	75	Anhydrite and salt
2055	2360	305	Anhydrite, salt and shale
2360	2505	145	Anhydrite, shells and salt
2505	2800	295	Anhydrite and salt
2800	2920	120	Anhydrite, salt and shale
2920	2975	55	Anhydrite and salt
2975	3135	160	Anhydrite and lime
3135	3256	12	Lime and sand
3256	3335	79	Lime and anhydrite
3335	3360	25	Lime
3360	3383	23	Lime and anhydrite
3383	3444	61	Lime
3444	3459	14	Lime and anhydrite
3459	3543	84	Lime
3543	3575	32	Lime and sand
3575	3679	104	Lime
3679	3695	16	Lime and sand
3695	3771	76	Lime
3771	3790	19	Sand and shale
3790	3817	27	Sandy lime
3817	3893	76	Lime, as d streaks
3893	3937	44	Lime and anhydrite
3937	4035	98	Sandy lime
4035	4093	58	Sandy lime and anhydrite
4093	4690	597	Lime
4690	4731	41	Dolomite
4731	4882	151	Lime
4882	4887	105	Dolomite
4887	5019	32	Lime
5019	5085	66	Dolomite
5085	5155	70	Lime
5155	5205	50	Dolomite
5205	5373	168	Sandy lime
5373	5415	42	Dolomite
5415	5420	5	Dolomite
5420	5437	17	Lime
5437	5545	8	Dolomite
5545	5559	51	Lime and dolomite
5559	5649	73	Dolomite
5649	5711	42	Lime
5711	5835	124	Dolomite
5835	5877	42	Lime
5877	6152	25	Dolomite
6152	6120	28	Lime
6120	6186	6	Dolomite
6186	6205	19	Lime
6205	6228	24	Dolomite.
6228	6264	40	Lime
6264	6485	27	Dolomite
6485	6542	57	Lime
6542	6550	8	Dolomite and lime
6550	6605	56	Dolomite and lime
6605	6667	63	Dolomite
6667	6710	73	Dolomite and lime
6710	6791	51	Dolomite
6791	6815	24	Dolomite and GYP
6815	6838	23	Sandy lime
6838	6852	14	Dolomite and GYP
6852	6876	24	Lime
6876	6902	26	Lime
6902	6915	13	Lime and dolomite
6915	7051	136	Dolomite
7051	7071	20	Dolomite and lime
7071	7124	53	Dolomite
7124	7154	30	Dolomite and lime
7154	7218	64	Dolomite
7218	7237	19	Dolomite and lime
7237	7273	36	Dolomite
7273	7294	21	Dolomite and lime
7294	7404	10	Dolomite
7404	7426	22	Lime and dolomite
7426	7508	82	Dolomite
7508	7528	22	Dolomite and gyp
7528	7546	18	Dolomite
7546	7607	61	Lime and dolomite
7607	7630	23	Dolomite
7630	7653	23	Lime and dolomite
7653	7678	25	Lime
7678	7694	18	Dolomite
7694	7737	43	Lime
7737	7751	14	Dolomite and lime
7751	7765	14	Lime
7765	7787	22	Lime and dolomite
7787	7828	41	Lime and gyp
7828	7955	127	Lime
7955	7981	26	Lime and green shale
7981	8011	30	Lime
8011	8041	30	Shale and lime
8041	8060	19	Lime
8060	8070	10	Lime and shale
8070	8093	13	Shale, lime and gyp
8093	8105	22	Lime
8105	8125	20	Lime, shale and gyp
8125	8135	10	Lime and gyp
8135	8154	15	Lime
8154	8175	21	Lime and shale
8175	8196	21	Dolomite and gyp
8196	8201	5	Lime
8201	8218	17	Dolomite
8218	8241	23	Dolomite and gyp
8241	8293	52	Lime
8293	8332	39	Lime and dolomite
8332	8450	14	.....

Subj: 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

2040 Pacheco St.  
Santa Fe, NM 87505

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. Type of Well: OR WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> other <input type="checkbox"/>	Water Injection Well
2. Name of Operator	Raptor Resources, Inc.
3. Address of Operator	901 Rio Grande, Austin, Texas 78701
4. Well Location Unit Letter E : 1345 Feet From The North Line and 25 Feet From The West Line Section 9 Township 22S Range 36E NMMI Lea County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) GL-3559	

11. 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 OPS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: _____	<input type="checkbox"/>	OTHER: _____	T/A Status Test <input checked="" type="checkbox"/>

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Test Date: 3-14-03

- Load casing with 2% KCl water and corrosion inhibitor. (Packer @ 3703')
- Pressure test casing from surface to 3703' to 500 psi for 30 minutes.  
(Record test on chart for OCD subsequent report.)
- Request TA status for 5 years.

MAR 2003  
RECEIVED  
Hobbs  
OCD

Approval of Temporary  
Abandonment Expires 3/19/08

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

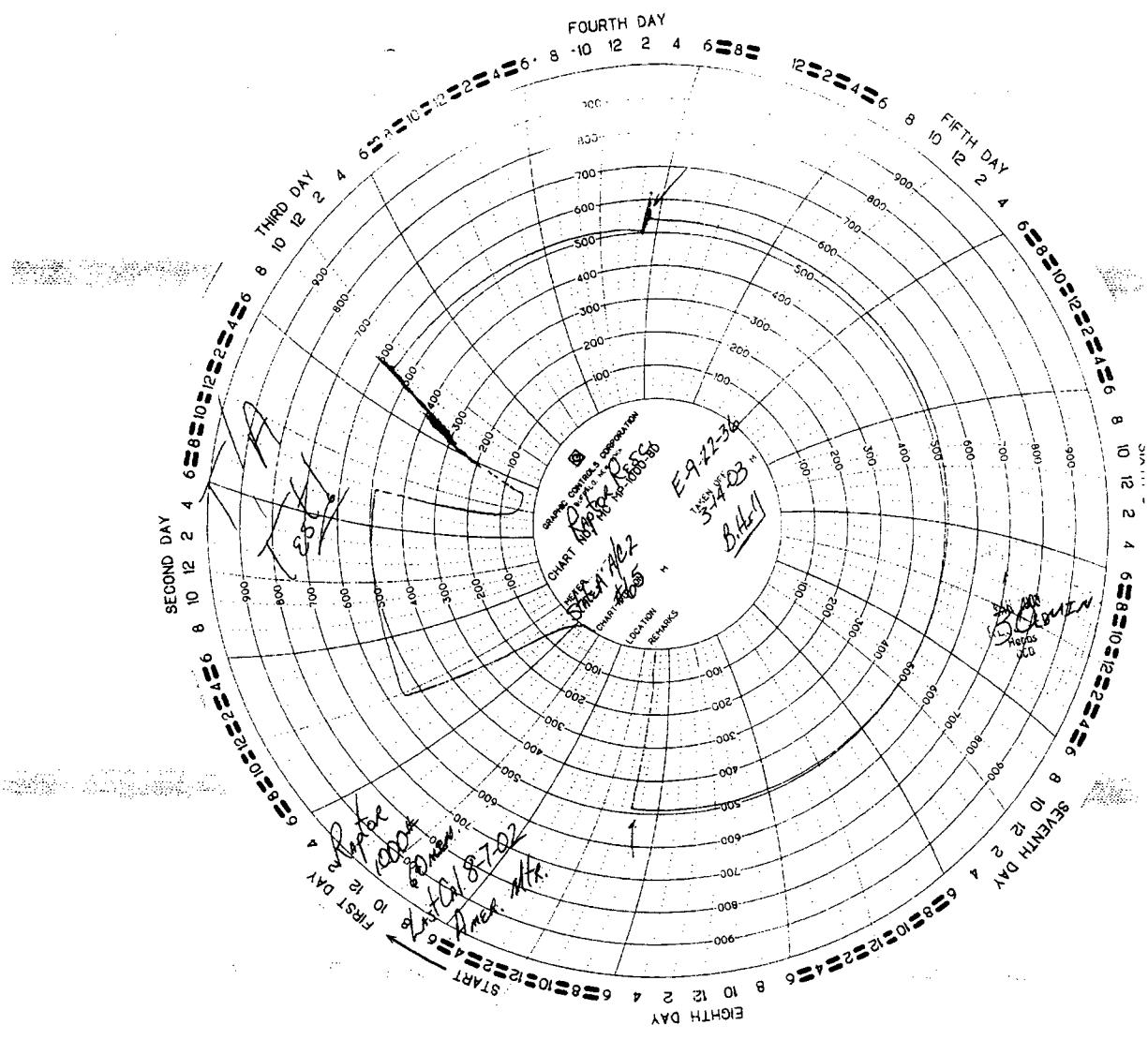
SIGNATURE Joel Sisk TITLE Production Foreman DATE 3-17-03  
TYPE OR PRINT NAME Joel Sisk (505) TELEPHONE NO. 304-2574

(This space for State Use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

ORIGINAL SIGNED BY  
GARY W. WINK  
OC FIELD REPRESENTATIVE / STAFF MANAGER

MAR 19 2003



1. DRILLING CONTRACTOR	2. PROPOSED LOCATION
3. LAND OWNERSHIP	4. DEEPEN OR PLUG BACK
5. API NO.	6. PERMIT NUMBER
7. LAND SURVEYOR	8. SURVEYOR'S SIGNATURE

## NEW MEXICO OIL CONSERVATION COMMISSION

API NO. 30-025-28274

1. DRILLING CONTRACTOR	2. PROPOSED LOCATION
3. LAND OWNERSHIP	4. DEEPEN OR PLUG BACK
5. API NO.	6. PERMIT NUMBER
7. LAND SURVEYOR	8. SURVEYOR'S SIGNATURE

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. DRILLING CONTRACTOR: DRILL  DEEPEN  PLUG BACK

2. Type of Well:  Producing  Abandoned  WIW  Single Tonne  Multi-Tonne

3. Name or Company Name: Sun Exploration & Production Co.

4. Address: P. O. Box 1861 - Midland, Texas 79702

5. Land Surveyor's Name: Funice Seven Rivers

6. Land Surveyor's Address: Queen South

7. Location of Well: UNIT LETTER E LOCATED 1345 FEET FROM THE North LINE

8. Section: 25 Township: West Range: 9 Twp: 22-S Rng: 36-E Section: 10

9. Casing and Cement Program:

10. Casing and Cement Program: <u>4000</u>	11. Blanket on file: <u>*</u>	12. Approximate Work will start: <u>Rotary</u>
13. Casing and Cement Program: <u>3559' GR</u>	14. Blanket on file: <u>N/A</u>	15. Approximate Work will start: <u>ASAP</u>

## PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 $\frac{1}{4}$	8-5/8	24#	550	375 SXS	Surface
7-7/8	5-1/2	14#	3900	1100 SXS	Surface

Blowout preventer 10' Hydraulic

\*19A. Primary Reservoir - Queen  
 Secondary Reservoir - Seven Rivers

APPROVAL VALID FOR 180 DAYS  
 PERMIT EXPIRES 01/31/84  
 UNLESS DRILLING UNDERWAY

IN ABOVE WHICH DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. WILL BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed Dale Ann Lamp Title Senior Accounting Assistant Date 7-12-83

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON

DISTRICT 1 SUPERVISOR

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

DATE AUG 5 1983

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

Form C-105  
Revised 11-1-8

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

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>	
b. State Oil & Gas Lease No.	
[Redacted]	

14. TYPE OF WELL		OIL WELL <input type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input type="checkbox"/>	OTHER <u>WTW</u>	7. Unit Agreement Name			
b. TYPE OF COMPLETION		NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEPEN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	OTHER	8. Form or Lease Name	
2. Name of Operator		Sun Exploration & Production Co.						State "A" A/C 2	
3. Address of Operator		P. O. Box 1861, Midland, TX 79702						9. Well No.	
4. Location of Well		UNIT LETTER <u>F</u> LOCATED <u>1345</u> FEET FROM THE <u>North</u> LINE AND <u>25</u> FEET FROM <u>[Redacted]</u> Twp. Line						10. Field and Pool or Well Locat <u>Eunice Seven Rivers</u> <u>Queen South</u>	
THE West LINE OF SEC. <u>9</u> TWP. <u>22-S</u> RGE. <u>36-E</u> NMMPM								Lea County	
15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RAB, RT, GR, etc.)			19. Elev. Casinghead			
9/4/83	9/7/83	10/8/83	3559.0' GR						
20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools				
3900	3886			X					
24. Producing Interval(s), of this completion - Top, Bottom, Name						25. Was Directional Survey Made			
<u>3694-3900 - Queen</u>						Yes			
26. Type Electric and Other Logs Run								27. Was Well Cored	
CNL								No	
28. CASING RECORD (Report all strings set in well)									
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD			AMOUNT PULLED		
8-5/8	24#	598	12-1/4	375 SXS			None		
5-1/2	14#	3900	7-7/8	950 SXS			None		
29. LINER RECORD								30. TUBING RECORD	
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET		
					2-3/8	3715	3709		
31. Perforation Record (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
3811-3872 - 1 JSFP 60 holes w/ 4" OD CG22GC				DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED					
3751-3782 - 1 JSFP 30 holes w/ 4" CG 22 GC				3811-3872 Acdz w/ 3000 Gals 15% NEFE HCl					
				3751-3782 Acdz w/ 1000 Gals 15% NEFE HCl					
33. PRODUCTION									
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)					Well Status (Prod. or Shut-in)		
Date of Test	Hours Tested	Choke Size	Flow-in. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio		
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)			
34. Disposition of Gas (Sold, used for fuel, vented, etc.)						Test Witnessed By			
35. List of Attachments									
C-103									
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 <u>D. Johnson</u>		TITLE Sr. Acct. Asst.					DATE 10/14/83		

INSTRUCTIONS

This form is to be filed with the appropriate Director office of the Commission not later than 20 days after the completion of my newly-drilled or proposed well. It shall be accompanied by one copy of oil-electric and radioactivity 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 also be reported. For multiple completions, there will be reported for each zone. The form is to be filed in quadruplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

T. Anhy <u>1419'</u>	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirkland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates <u>3123'</u>	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers <u>3310'</u>	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen <u>3694'</u>	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Plate _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blanebry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. Lansill <u>2960'</u>	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from <u>3751</u> to <u>3872</u>	No. 4, from..... to.....
No. 2, from..... to.....	No. 5, from..... to.....
No. 3, from..... to.....	No. 6, from..... to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from..... to.....	feet.....
No. 2, from..... to.....	feet.....
No. 3, from..... to.....	feet.....
No. 4, from..... to.....	feet.....

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
1419	2960	1541'	Anhydrite, Some Thin Shales				
2960	3123	163'	Sandstone, Dolomite, Anhydrite				
3123	3310	187'	Sandstone, Dolomite, Dolomite Sands				
3310	3694	384'	Sandstone, Sandy Dolomites, Dolomite				
3694	3890	196'	Sandstone, Dolomite Sands, Sandy Dolomitized, Thin Interbedded shales				

NOV 2 1983

O.C.D.  
HOBB'S OFFICE

Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION  
2040 Pacheco St.

Santa Fe, NM 87505

WELL API NO. 30-025-28277

5. Indicate Type of Lease  STATE  FEE

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

State A. A/C 2

8. Well No. 68

9. Pool name or Wildcat  
Eunice SR Queen-South

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. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	Water Injection Well						
2. Name of Operator Raptor Resources, Inc.							
3. Address of Operator 901 Rio Grande, Austin, Texas 78701							
4. Well Location Unit Letter E : 2570 Feet From The North Line and 70 Feet From The West Line							
Section 9 Township 22S Range 36E NMPM Lea County							
10. Elevation (Show whether DP, RKB, RT, GR, etc.) GL-3585							

11. 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"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: _____	<input type="checkbox"/>	OTHER: _____	T/A Status Test <input checked="" type="checkbox"/>

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Test Date: 3-14-03

1. Load casing with 2% KCl water and corrosion inhibitor. (Packer @ 3714')
2. Pressure test casing from surface to 3714' to 500 psi for 30 minutes.  
(Record test on chart for OCD subsequent report.)
3. Request TA status for 5 years

Approval of Temporary  
Abandonment Expires 3/19/08

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

SIGNATURE Joel Sisk TITLE Production Foreman DATE 3-17-03  
TYPE OR PRINT NAME Joel Sisk (505) TELEPHONE NO. 394-2574

(This space for State Use)

APPROVED BY \_\_\_\_\_

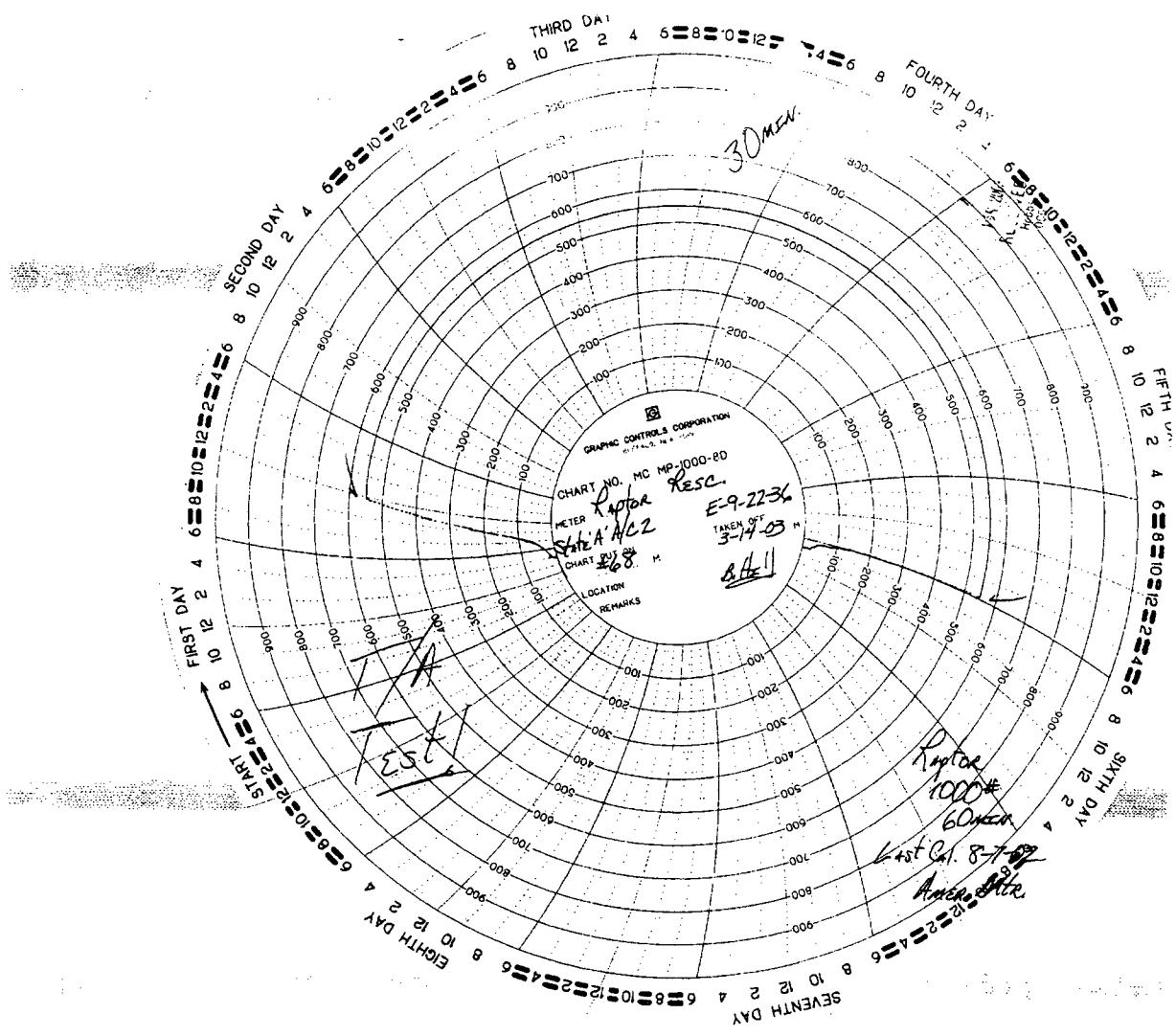
CONDITIONS OF APPROVAL, IF ANY:  
S K

ORIGINAL SIGNED BY

CARY W. MUNIC

O.C. FIELD REPRESENTATIVE II/STAFF MANAGER

MAR 19 2003



NAME OF COMPANY OR FIRM
DRILLER
SUPPLIER
TRUCK
DRILLING CONTRACTOR
LAND OFFICE
INTEGRATOR

## NEW MEXICO OIL CONSERVATION COMMISSION

API NO. 30-025-28271Form O-101  
Effective 1-1-86

1. Are the proposed operations located in the state of _____?
STATE <input checked="" type="checkbox"/> YES <input type="checkbox"/>
2. What is the name of the operator?
3. Name or business name
4. State "A" A/C 2
5. Well No.
68
10. Field and pool, or wildcat
Eunice Seven Rivers
Queen South
11. County
Lea
12. Drilling rig type
4000
13. Estimated date of completion
*
14. Action, Enter well will start
ASAP

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK									
1. Type of Work									
DRILL <input checked="" type="checkbox"/>		DEEPEN <input type="checkbox"/>		PLUG BACK <input type="checkbox"/>					
GAS WELL <input type="checkbox"/>		OTHER <input type="checkbox"/>		SINGLE ZONE <input checked="" type="checkbox"/>		MULTIPLE ZONE <input type="checkbox"/>			
2. Location of operation									
Sun Exploration & Production Co.									
P. O. Box 1861 - Midland, Texas 79702									
3. Location of well		LINE LETTER	E	LOCATED	2570	FEET FROM THE	North	LINE	
4. Acre	70	5. Face direction	West	LINE OF SECTION	9	Twp.	22-S	Sec.	36-E
6. Proposed Casing Program (If any)									
7. Total Casing Weight		8. Casing Size		9. Setting Depth		10. Casing Weight		11. Casing Program	
3585.0' GR		Blanket on file		N/A		4000		* Rotary	
12. Conditions of Approval (If any)									

## PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 $\frac{1}{4}$	8-5/8	24#	550	375 SXS	Surface
7-7/8	5-1/2	14#	3900	1100 SXS	Surface

Blowout preventer 10" hydraulic

\*19A. Primary Reservoir - Queen  
 Secondary Reservoir - Seven Rivers

APPROVAL VALID FOR 180 DAYS  
 PERMIT EXPIRES 2/15/84  
 UNLESS DRILLING UNDERWAY

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE, IF ANY, BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed Duane Kunkle Title Senior Accounting Assistant Date 7-12-83

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON  
DISTRICT SUPERVISORAPPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

DATE AUG 5 1983

MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-11c  
Supersedes L-1.  
Effective 1-1-81

All distances must be from the outer boundaries of the Section

Operator <b>Sun Exploration &amp; Producing Company</b>		Lease # "A/C 2	Well No. <b>68</b>
Tract Letter <b>E</b>	Section <b>9</b>	Township <b>22 South</b>	Range <b>36 East</b>
County <b>Lea County</b>			

Aerial Footage Location of Well:

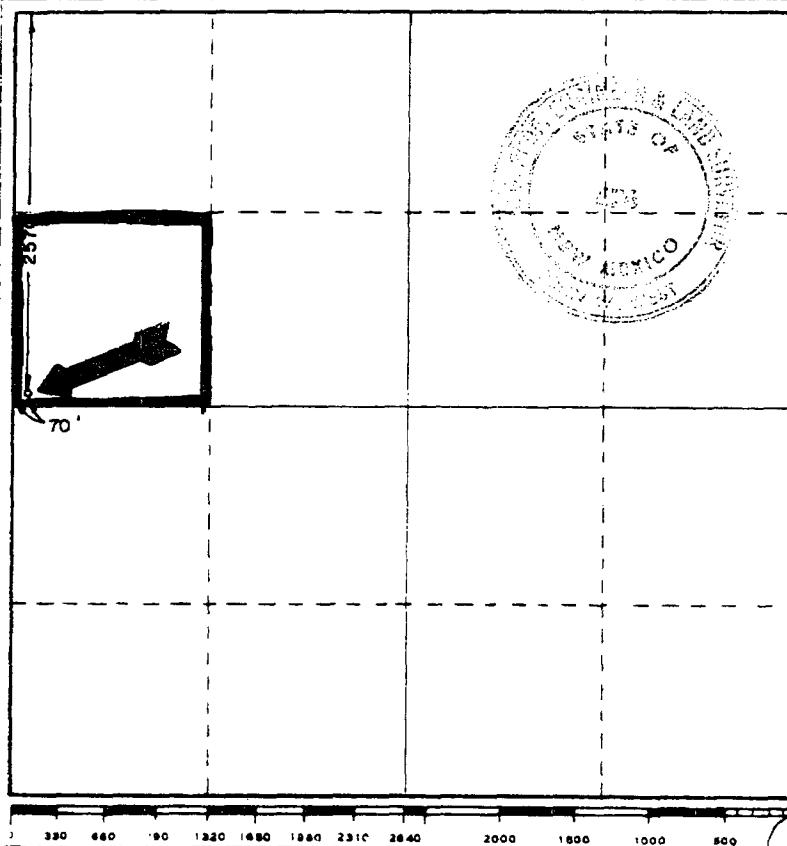
2570 feet from the <b>Ground Level Elev.</b> <b>3585.0</b>	Producing Formation <b>Queen</b>	Line and Pool <b>Elvise Seven Rivers Queen South</b>	Dedicated Acreage <b>40</b>
--	-------------------------------------	--	--------------------------------

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

Yes     No    If answer is "yes," type of consolidation \_\_\_\_\_

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

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



CERTIFICATION

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

*Dee Ann Kemp*  
Name  
**Dee Ann Kemp**  
Position  
**Senior Asst. Asst.**  
Company  
**Sun Exploration + Producing Co.**  
Date  
**7-13-83**

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

Date Surveyed  
**June 30, 1983**

Registered Professional Engineer  
and/or Land Surveyor

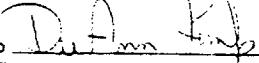
*John W. West*  
Signature  
Certificate No. **JOHN W. WEST**, 671  
**RONALD J. EIDSON**, 3259

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FILE	
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LAND OFFICE	
OPERATOR	

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

Form C-105  
Revised 11-1-76

1a. Petroleum Type of Lease	
Stone <input checked="" type="checkbox"/> Fee <input type="checkbox"/>	
1b. State Oil & Gas Lease No.	

1c. TYPE OF WELL		OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> ONLY <input type="checkbox"/> OTHER _____					
D. TYPE OF COMPLETION		NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____					
2. Name of Operator <b>Sun Exploration &amp; Production Co.</b>							
3. Address of Operator <b>P. O. Box 1861, Midland, TX 79702</b>							
4. Location of Well							
UNIT LETTER <b>E</b>	LOCATED <b>2570</b>	FEET FROM THE <b>North</b> LINE AND <b>70</b> FEET FROM THE <b>East</b> LINE					
THE <b>West</b> LINE OF SEC. <b>9</b> TWP. <b>22-S</b> RGE. <b>36-E</b> SPCM							
15. Date Spudded <b>8/8/83</b>	16. Date T.D. Reached <b>8/11/83</b>	17. Date Compt. (Ready to Prod.) <b>9/15/83</b>					
18. Elevation (DD, R.R., RT, GR, etc.) <b>3585.0' GR</b>	19. Well Casinghead						
20. Total Depth <b>3910</b>	21. Flow Back T.D. <b>3889</b>	22. If Multiple Compl., How Many					
23. Intervals Drilled By <b>Rotary Tools</b>	24. Producing Interval(s), if this completion - Top, bottom, Name <b>Queen 3695-3891'</b>	25. Was Directional Survey Made <b>Yes</b>					
26. Type Electric and Other Logs Run <b>CNL-GR</b>	27. Was Well Cored						
28. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT LB. FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED		
<b>8-5/8</b>	<b>24#</b>	<b>582</b>	<b>12-1/4</b>	<b>375 SXS</b>	<b>None</b>		
<b>5-1/2</b>	<b>14#</b>	<b>3885</b>	<b>7-7/8</b>	<b>950 SXS</b>	<b>None</b>		
29. LINER RECORD			30. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					<b>2-3/8</b>	<b>3826</b>	
31. Perforation Record (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
<b>3885-3911 (Open Hole)</b>				DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED		
<b>3857-3869 2 JSFP; 25 holes 4" Csg Gun</b>				<b>3885-3911</b>	<b>Sqz w/165 sxs "C"</b>		
<b>3823-3847 2 JSFP; 49 holes 4" Csg Gun</b>				<b>3857-3869</b>	<b>Acdz w/750 gals 15% NEFEHCL</b>		
<b>3766-3808 1 JSFP; 43 holes 4" Csg Gun</b>				<b>3823-3847</b>	<b>Acdz w/1200 gals 15% NEFEHCL</b>		
				<b>3766-3808</b>	<b>Acdz w/2000 gals 15% NEFE</b>		
33. PRODUCTION							
Date First Production <b>9/13/83</b>	Production Method (Flowing, gas lift, pumping - size and type pump) <b>Pumping 1-1/2"</b>				Well Status (Prod. or Shut-in) <b>Prod</b>		
Date of Test <b>9/27/83</b>	Hours Tested <b>24 hrs</b>	Choke Size	Prod'n. Per Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
Flow Testing Press.	Testing Pressure	Calculated 24-Hour Rate		<b>10</b>	<b>33.4</b>	<b>9</b>	<b>1400/1</b>
34. Disposition of Gas (Sold, used for fuel, vented, etc.) <b>Vented</b>				Test Witnessed by <b>Elmer Teel</b>			
35. List of Attachments <b>C-104</b>							
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 	TITLE <b>Sr. Acct. Asst.</b>	DATE <b>9/29/83</b>					

### INSTRUCTIONS

This form is to be filed with the State Oil and Gas Control Office of the State of New Mexico at no later than 30 days after the completion of any newly drilled or deepened well. It shall be accompanied by one copy of all electrical and resistivity logs run on the well and a summary of all special tests conducted, including drill stem tests. All test results shall be mentioned as far as in the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Horizons 34 through 34 shall be reported for each zone. This form is to be filed in quadruplicate except on state land, where six copies are required. See Rule 10.

### INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

#### Southeastern New Mexico

T. Anhy	T. Canyon
T. Salt	T. Strata
B. Salt 3134	T. Atoka
T. Yates 3134	T. Miss
T. 7 Rivers 3318	T. Devonian
T. Queen 3595	T. Silurian
T. Grayburg 3892	T. Montoya
T. San Andres	T. Simpson
T. Glorieta	T. McKee
T. Paddock	T. Ellenburger
T. Blinshley	T. Gr. Wash
T. Tubb	T. Granite
T. Drinkard	T. Delaware Sand
T. Abo	T. Bone Springs
T. Wolfcamp	T. _____
T. Penn.	T. _____
T. Cisco (Bough C)	T. _____

#### Northwestern New Mexico

T. Ojo Alamo	T. Penn. "B"
T. Kirkland-Fruitland	T. Penn. "C"
T. Pictured Cliffs	T. Penn. "D"
T. Cliff House	T. Leadville
T. Menefee	T. Madison
T. Point Lookout	T. Elbert
T. Mancos	T. McCracken
T. Gallop	T. Ignacio Qtzite
T. Base Greenhorn	T. Granite
T. Dakota	T. _____
T. Morrison	T. _____
T. Tedritto	T. _____
T. Entrada	T. _____
T. Wingate	T. _____
T. Chinle	T. _____
T. Permian	T. _____
T. Penn. "A"	T. _____

### OIL OR GAS SANDS OR ZONES

No. 1, from.....	to.....	No. 4, from.....	to.....
No. 2, from.....	to.....	No. 5, from.....	to.....
No. 3, from.....	to.....	No. 6, from.....	to.....

### IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....	to.....	feet.....
No. 2, from.....	to.....	feet.....
No. 3, from.....	to.....	feet.....
No. 4, from.....	to.....	feet.....

### FORMATION RECORD / Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
3134	3318	184'	Sandstone, Dolomite				
3318	3595	277'	Sandstone, Dolomite Dolomite Sands				
3595	3892	297'	Sandstone, Sandy Dolomites, Dolomite, Some Interbedded Shales				
3892	3910	18'	Dolomite				

RECEIVED

OCT 6 1983

O.C.D.  
HOBBS OFFICE

Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

2040 Pacheco St.  
Santa Fe, NM 87505

WELL API NO. 30-025-28273

5. Indicate Type of Lease  
 STATE  FEE

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

State A A/C 2

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. Type of Well: <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER	Water Injection Well
2. Name of Operator	Raptor Resources, Inc.
3. Address of Operator	901 Rio Grande, Austin, Texas 78701
4. Well Location Unit Letter <u>A</u> : <u>1250</u> Feet From The North Line and <u>1250</u> Feet From The East Line	Section <u>8</u> Township <u>22S</u> Range <u>36E</u> NMPM Lea County
10. Elevation (Show whether DF, RKB, RT, GR, etc.) <u>GL-3564</u>	

11. 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"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: _____	<input type="checkbox"/>	OTHER: _____	<input checked="" type="checkbox"/> T/A Status Test

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Test Date: 3-14-03

1. Load casing with 2% KCl water and corrosion inhibitor. (Packer @ 3713')
2. Pressure test casing from surface to 3713' to 500 psi for 30 minutes.  
(Record test on chart for OCD subsequent report.)
3. Request TA status for 5 years.

1103 Approval of Temporary  
Abandonment Expires 3/19/08

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

SIGNATURE

*Joel Sisk*

title

Production Foreman

DATE

3-17-03

TYPE OR PRINT NAME

Joel Sisk

(505)

TELEPHONE NO. 394-2574

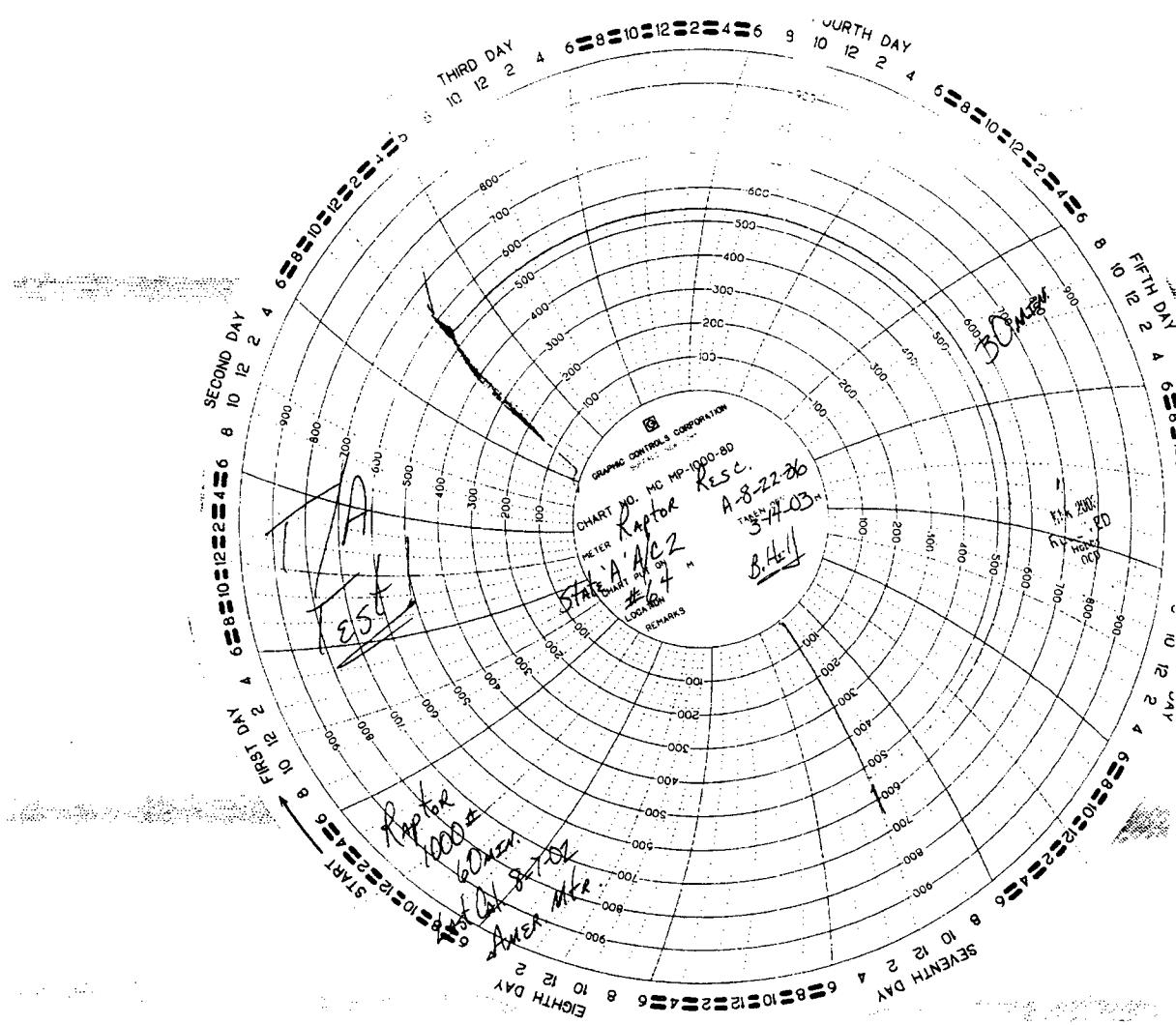
(This space for State Use)

ORIGINAL SIGNED BY  
GARY W. WINK  
OC FIELD REPRESENTATIVE / STAFF MANAGER

MAR 19 2003

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:



DATA SHEET	DEC 1978
PERMIT NUMBER	
STATE	NM
PERMIT TYPE	DRILLING
LAND OFFICE	MIDLAND
OPERATOR	SUN EXPLORATION & PRODUCTION CO.

NEW MEXICO OIL CONSERVATION COMMISSION

API NO. 50-626-2834

Permit No. 1  
Dec 1978

APPROVAL DATE	DEC 1978
STATE	X
PERMIT NUMBER	50-626-2834

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK	DRILL <input checked="" type="checkbox"/>	DEEPEN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>		
b. Type of Well	SINGLE WELL <input checked="" type="checkbox"/>	multiple well <input type="checkbox"/>			
c. Location of Work	P. O. Box 1861 - Midland, Texas 79702	SECTION A	LOCATED 1250 FEET FROM THE	North	
d. Location of Work	1250	East	8	22 <sup>1</sup> /2	36-E
e. Location of Work	Lea				
f. Proposed Completion Date	4000	*	Rotary		
g. Total Depth	3564.4' GR	Blanket on file	N/A	ASAP	
PROPOSED CASING AND CEMENT PROGRAM					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 <sup>1</sup> / <sub>2</sub>	8-5/8	24#	550	375sxs	Surface
7-7/8	5-1/2	14#	3900	1100sxs	Surface

Blowout preventer: 10" Hydraulic

- \* 19A. Primary Reservoir - Queen
- Secondary Reservoir - Seven Rivers

APPROVAL VALID FOR 180 DAYS  
PERMIT EXPIRES 5/17/84  
UNLESS DRILLING UNDERWAY

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE, AND BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed DeAnn Jones Title Senior Accounting Assistant Date 7-12-83

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON

APPROVED BY DISTRICT 1 SUPERVISOR TITLE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

AUG 11 1983

MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-121  
Amended C-128  
Rev. 1-25-85

All distances must be from the outer boundaries of the Section.

Sun Exploration & Producing Company			State "A" A/C 2	
Acre	Section	W.M.	Range	County

Acre	Section	W.M.	Range	County

1250	North	1250	East
3564.4	Queen	Eunice Sevier Rivers Perry South	-3

Delineate the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.

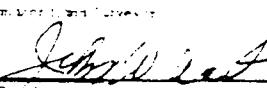
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (such as co-working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes     No    If answer is "yes" type of consolidation \_\_\_\_\_

If answer is "no" list the owners and tract descriptions which have actually been consolidated. If separate side of this form if necessary.

Any allowable will be assigned to the well until all interests have been consolidated by communitization, unitization, force-pooling, or otherwise (or until a non-standard unit, eliminating such interests, has been approved by the Commission).

CERTIFICATE		I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.										
Dee Ann Kline		<u>Dee Ann Kline</u>										
Sever Act - 1		<u>Sever Act - 1</u>										
Sun Exploration & Producing Co.		<u>Sun Exploration &amp; Producing Co.</u>										
7-12-83		<u>7-12-83</u>										
												
I hereby certify that the well location shown on this plat was obtained from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.												
The Surveyor												
June 20, 1983												
Registered Office Seal of the New Mexico Oil Conservation Commission												
 Certificate No. JOHN R. JOHNSON 676 RONALD L. JOHNSON, 3239												
330	660	90	1320	1680	1980	2310	2660	2000	1800	1600	1400	800

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 30 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radioactivity logs run on the well and a summary of all special tests conducted, including depth tests. All depths reported shall be measured from the top. In the case of directionally drilled wells, true vertical depths shall also 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 state land, where four copies are required, per Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

T. Anhy	1387	T. Canyon		T. Ojo Alamo		T. Penn. "B"	
T. Salt		T. Strawn		T. Kirkland-Fruitland		T. Penn. "C"	
B. Salt		T. Atoka		T. Fictured Cliffs		T. Penn. "D"	
T. Yates	3137	T. Miss		T. Cliff House		T. Leadville	
T. 7 Rivers	3321	T. Devonian		T. Menefee		T. Madison	
T. Queen	3719	T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		T. Montoya		T. Mancos		T. McCracken	
T. San Andres		T. Simpson		T. Gallup		T. Ignacio Qtzite	
T. Glorietta		T. McKee		Base Greenhorn		T. Granite	
T. Paddock		T. Ellenburger		T. Dakota		T.	
T. Blueberry		T. Gr. Wash		T. Morrison		T.	
T. Tubb		T. Granite		T. Todilto		T.	
T. Drinkard		T. Delaware Sand		T. Entrada		T.	
T. Abo		T. Bone Springs		T. Wingate		T.	
T. Wolfcamp		T. Tansill	2980	T. Chinle		T.	
T. Penn.		T.		T. Permian		T.	
T. Cisco (Bough C)		T.		T. Penn. "A"		T.	

Northwestern New Mexico

OIL OR GAS SANDS OR ZONES							
No. 1, from	3255	to	3875	No. 4, from		to	
No. 2, from		to		No. 5, from		to	
No. 3, from		to		No. 6, from		to	

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from	.....	to	.....	feet.	.....
No. 2, from	.....	to	.....	feet.	.....
No. 3, from	.....	to	.....	feet.	.....
No. 4, from	.....	to	.....	feet.	.....

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
1387	2980	1593'	Anhydrite, Thin Shales				
2980	3137	157'	Dolomite and interbedded Sandstone				
3137	3321	184'	Dolomite, Sandstone Thin laminated Shales				
3321	3719	398'	Sandstone, Dolomite, Sandy Dolomites, and Dolomite Sands				
3719	3890	171'	Dolomite with interbedded Sandstone, and Sandy Dolomites.				

PENN. "B"

NOV 15 1983

HOBBS  
C.O.  
HOBBS OFFICE

Submit 3 Copies To Appropriate District Office  
**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
**District II**  
 1301 W. Grand Ave., Artesia, NM 88210  
**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
**District IV**  
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
 Energy, Minerals and Natural Resources  
**OIL CONSERVATION DIVISION**  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

Form C-103  
 May 27, 2004

WELL API NO. 30-025-23507	
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name State A A/C 2	
8. Well Number 61	
9. OGRID Number	
10. Pool name or Wildcat Eunice 7 Rvrs Queen South	

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. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	
2. Name of Operator Mission Resources	
3. Address of Operator 1100 Louisiana, Suite 1455 Houston TX 77002	
4. Well Location Unit Letter J : 1980 feet from the South line and 1780 feet from the East line Section 8 Township 22S Range 36E NMPM Lea County	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3584' GR	
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>	
Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____	
Pit Liner Thickness: mil Below-Grade Tank: Volume bbls; Construction Material	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK  PLUG AND ABANDON   
 TEMPORARILY ABANDON  CHANGE PLANS   
 PULL OR ALTER CASING  MULTIPLE COMPL

SUBSEQUENT REPORT OF:

REMEDIAL WORK  ALTERING CASING   
 COMMENCE DRILLING OPNS.  P AND A   
 CASING/CEMENT JOB

OTHER:

OTHER: T/A Test

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Test Date: 2-21-2006

1. Load casing w/ 2% KCL and corrosion inhibitor. (CIBP @ 3750' w/ 35' cmt)
2. Pressure test csg. Surface to 3750' to 500 psi for 30 minutes. (See attached chart)
3. Request 90 days to bring well into compliance.

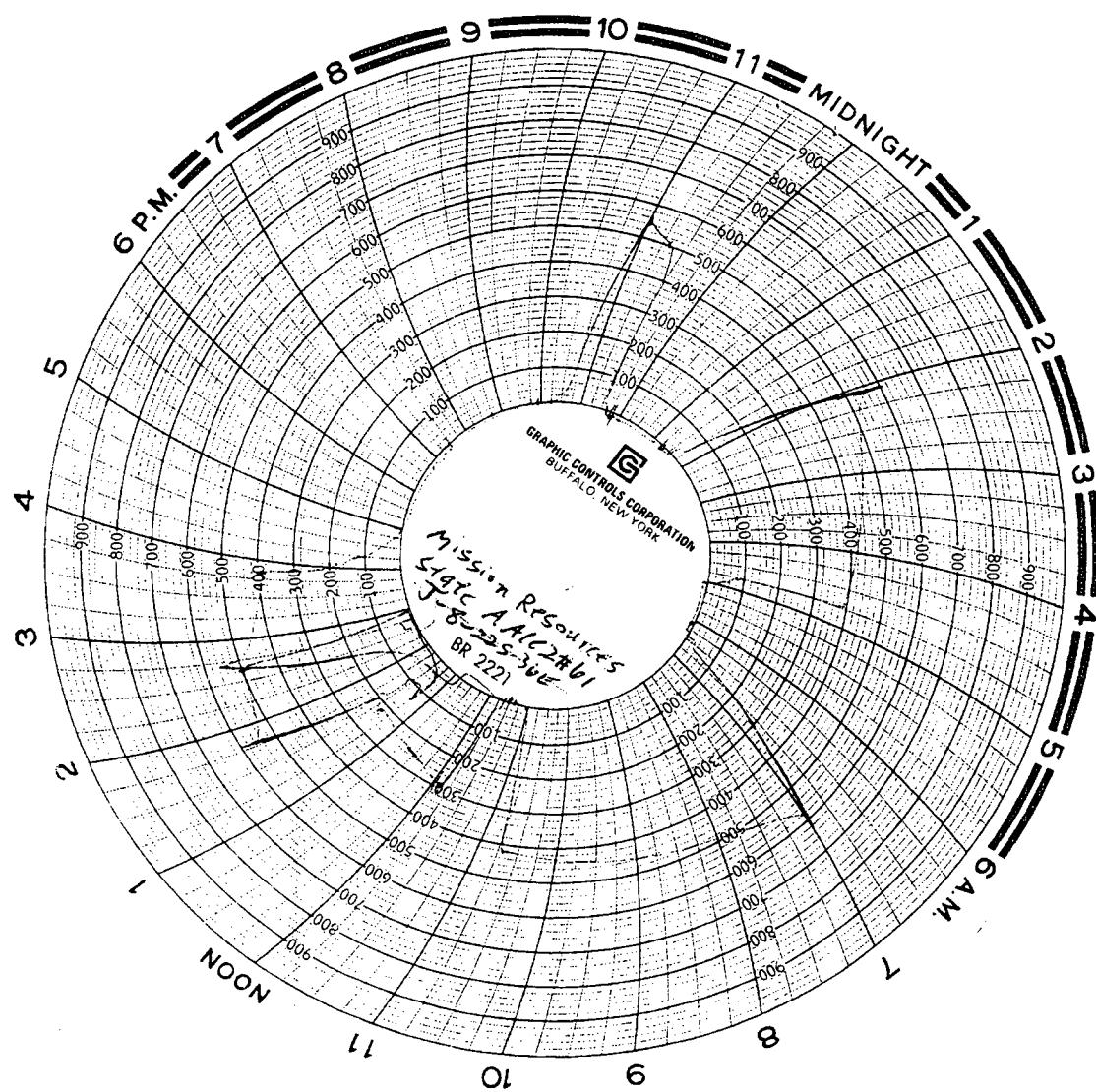
This Approval of Temporary  
Abandonment Expires

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit  or an (attached) alternative OCD-approved plan .

SIGNATURE Joel Sisk TITLE Production Foreman DATE 2-14-2006

Type or print name Joel Sisk E-mail address: jsisk@petrohawk.com Telephone No.505-390-8936  
 For State Use Only

APPROVED BY: Gary W. Wink TITLE FIELD REPRESENTATIVE II/STAFF MANAGER DATE FEB 27 2006  
 Conditions of Approval (if any)



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LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101  
Revised 1-1-65

SA. Indicate Type of Lease	
STATE <input checked="" type="checkbox"/>	FEE <input type="checkbox"/>
-5. State Oil & Gas Lease No. <b>NM 2 A</b>	
<b>Diagonal Hatching</b>	
7. Unit Agreement Name	
8. Form or Lease Name <b>State "A" A/c-2</b>	
9. Well No. <b>61</b>	
10. Field and Pool, or Wildcat <b>South Eunice</b>	
12. County <b>Lea</b>	
19. Proposed Depth <b>3900'</b>	
19A. Formation <b>Seven Rivers Queen</b>	
20. Rotary or C.T. <b>Rotary</b>	
21. Elevations (Show whether DF, RT, etc.) <b>3584.4 CR</b>	21A. Kind & Status Plug. Bond <b>As required</b>
21B. Drilling Contractor <b>Not selected</b>	
22. Approx. Date Work will start <b>Upon Approval</b>	

<b>APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK</b>									
1a. Type of Work      DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>									
b. Type of Well      OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <b>Injection Well</b> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>									
2. Name of Operator <b>Texas Pacific Oil Company, Inc.</b>									
3. Address of Operator      P. O. Box 1069, Hobbs, New Mexico 88240									
4. Location of Well      UNIT LETTER <b>J</b> LOCATED <b>1980</b> FEET FROM THE <b>South</b> LINE AND <b>1780</b> FEET FROM THE <b>East</b> LINE OF SEC. <b>8</b> TWP. <b>22</b> RGE. <b>36</b> NMMPM									
23. PROPOSED CASING AND CEMENT PROGRAM									
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP				
<b>11</b>	<b>7 5/8</b>	<b>24#</b>	<b>350</b>	<b>175</b>					
<b>6 3/4</b>	<b>4 1/2</b>	<b>9.5#</b>	<b>3900</b>	<b>300</b>					

APPROVAL VALID  
FOR 60 DAYS UNLESS  
OTHERWISE COMMENCED,  
OR  
EXPIRES **8-11-70**

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Original Signed by

Signed Sheldon Ward Title Area Superintendent Date May 8, 1970

(This space for State Use)

APPROVED BY J. C. Steiner TITLE SUPERVISOR DISTRICT DATE MAY 11 1970  
CONDITIONS OF APPROVAL, IF ANY:

NO. OF COPIES RECEIVED	
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FILE	
U.S.G.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 <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.
<b>MM 2 A</b>

10. TYPE OF WELL		7. Unit Agreement Name					
OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input type="checkbox"/>	OTHER _____				
b. TYPE OF COMPLETION							
NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____							
2. Name of Operator	8. Farm or Lease Name						
<b>Texas Pacific Oil Company, Inc.</b>	<b>State "A" s/c-2</b>						
3. Address of Operator	9. Well No.						
<b>P. O. Box 1069, Hobbs, New Mexico 88240</b>	<b>61</b>						
4. Location of Well	10. Field and Pool, or Wildcat						
UNIT LETTER <b>J</b> LOCATED <b>1980</b> FEET FROM THE <b>South</b> LINE AND <b>1780</b> FEET FROM	11. County						
THE <b>East</b> LINE OF SEC. <b>8</b> TWP. <b>22-8</b> RGE. <b>36-E</b> NMMPM	<b>Las</b>						
15. Date Spudded <b>5-14-70</b>	16. Date T.D. Reached <b>5-24-70</b>	17. Date Compl. (Ready to Prod.) <b>7-23-70</b>	18. Elevations (DF, RKB, RT, GR, etc.) <b>3584.4' GR</b>				
19. Elev. Casinghead							
20. Total Depth <b>3900</b>	21. Plug Back T.D. <b>3897</b>	22. If Multiple Compl., How Many	23. Intervals Drilled By Rotary Tools <b>Surf. - 3897'</b> Cable Tools				
24. Producing Interval(s), of this completion - Top, Bottom, Name <b>3793 - 3876'</b>			25. Was Directional Survey Made <b>yes</b>				
26. Type Electric and Other Logs Run <b>EMC; DR; MIL</b>			27. Was Well Cored <b>yes</b>				
28. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED		
<b>7-5/8"</b>	<b>24#</b>	<b>340</b>	<b>11"</b>	<b>175</b>			
<b>4-1/2"</b>	<b>9.50</b>	<b>3949</b>	<b>6-3/4"</b>	<b>300</b>			
29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					<b>2-3/8"</b>		<b>3754</b>
31. Perforation Record (Interval, size and number) <b>3793-3800-02-08-13-19-21-33-43-45-47-50-59- 61-66-74-76'</b>				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED <b>3793 - 3876 2000 gal. 15% H2 Acid</b>			
33. PRODUCTION							
Date First Production <b>7-25-70</b>	Production Method (Flowing, gas lift, pumping - Size and type pump) <b>Pump</b>				Well Status (Prod. or Shut-in) <b>Producing</b>		
Date of Test <b>7-26-70</b>	Hours Tested <b>24</b>	Choke Size	Prod'n. For Test Period	Oil - Bbl. <b>12</b>	Gas - MCF <b>TSTM</b>	Water - Bbl. <b>28</b>	Gas - Oil Ratio <b>no</b>
Flow Tubing Press. <b>25#</b>	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl. <b>12</b>	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
34. Disposition of Gas (Sold, used for fuel, vented, etc.)				Test Witnessed By			
35. List of Attachments							
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. <b>Original Signed by Sheldon Ward</b>							
SIGNED	TITLE <b>Area Superintendent</b>			DATE <b>October 6, 1970</b>			

## INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. 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 conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also 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 state land, where six copies are required. See Rule 1105.

**INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE**

### Southeastern New Mexico

Northwestern New Mexico

<b>Hustler</b>	<b>1425</b>			
T. Ashy	T. Canyon	T. Ojo Alamo	T. Penn. "B"	
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"	
B. Salt	T. Atoka	T. Pictured Cliffs	T. Penn. "D"	
T. Yates	<b>3173</b>	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	<b>3358</b>	T. Devonian	T. Menefee	T. Madison
T. Queen	<b>3767</b>	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg		T. Montoya	T. Mancos	T. McCracken
T. San Andres		T. Simpson	T. Gallup	T. Ignacio Qtzte
T. Glorieta		T. McKee	Base Greenhorn	T. Granite
T. Paddock		T. Ellenburger	T. Dakota	T.
T. Blinebry		T. Gr. Wash	T. Morrison	T.
T. Tubb		T. Granite	T. Todilto	T.
T. Drinkard		T. Delaware Sand	T. Entrada	T.
T. Abo		T. Bone Springs	T. Wingate	T.
T. Wolfcamp		T.	T. Chinle	T.
T. Penn.		T.	T. Permian	T.
T Cisco (Bough C)		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	1456		Red Bed				
1456	1691		Red Bed & Salt				
1691	3012		Salt & Anhydrite				
3012	3321		Anhydrite				
3321	3446		Anhydrite & Lime				
3446	3900		Lime				

Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

2040 Pacheco St.

Santa Fe, NM 87505

WELL API NO. 30-025-28278

5. Indicate Type of Lease

STATE

FEE

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

State A A/C 2

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. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	Water Injection Well		
2. Name of Operator Raptor Resources, Inc.	8. Well No. 69		
3. Address of Operator 901 Rio Grande, Austin, Texas 78701	9. Pool name or Wildcat Eunice SR Queen-South		
4. Well Location Unit Letter 1 : 2615 Feet From The South Line and 1295 Feet From The East Line	Section 8 Township 22S Range 36E NMPM Lea County		
10. Elevation (Show whether DP, RKB, RT, GR, etc.) GR-3550'			
11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data			
NOTICE OF INTENTION TO:			
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"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: _____	<input type="checkbox"/>	OTHER: _____	T/A Status Test <input checked="" type="checkbox"/>
12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.			

Test Date: 3-14-03

- Load casing with 2% KCl water and corrosion inhibitor. (Packer @ 3716')
- Pressure test casing from surface to 3716' to 500 psi for 30 minutes.  
(Record test on chart for OCD subsequent report.)
- Request TA status for 5 years.

This Approval of Temporary  
Abandonment Expires 3/19/08

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

SIGNATURE

*Joel Sisk*

TITLE Production Foreman

DATE 3-17-03

TYPE OR PRINT NAME

Joel Sisk

(505)

TELEPHONE NO. 394-2574

(This space for State Use)

APPROVED BY

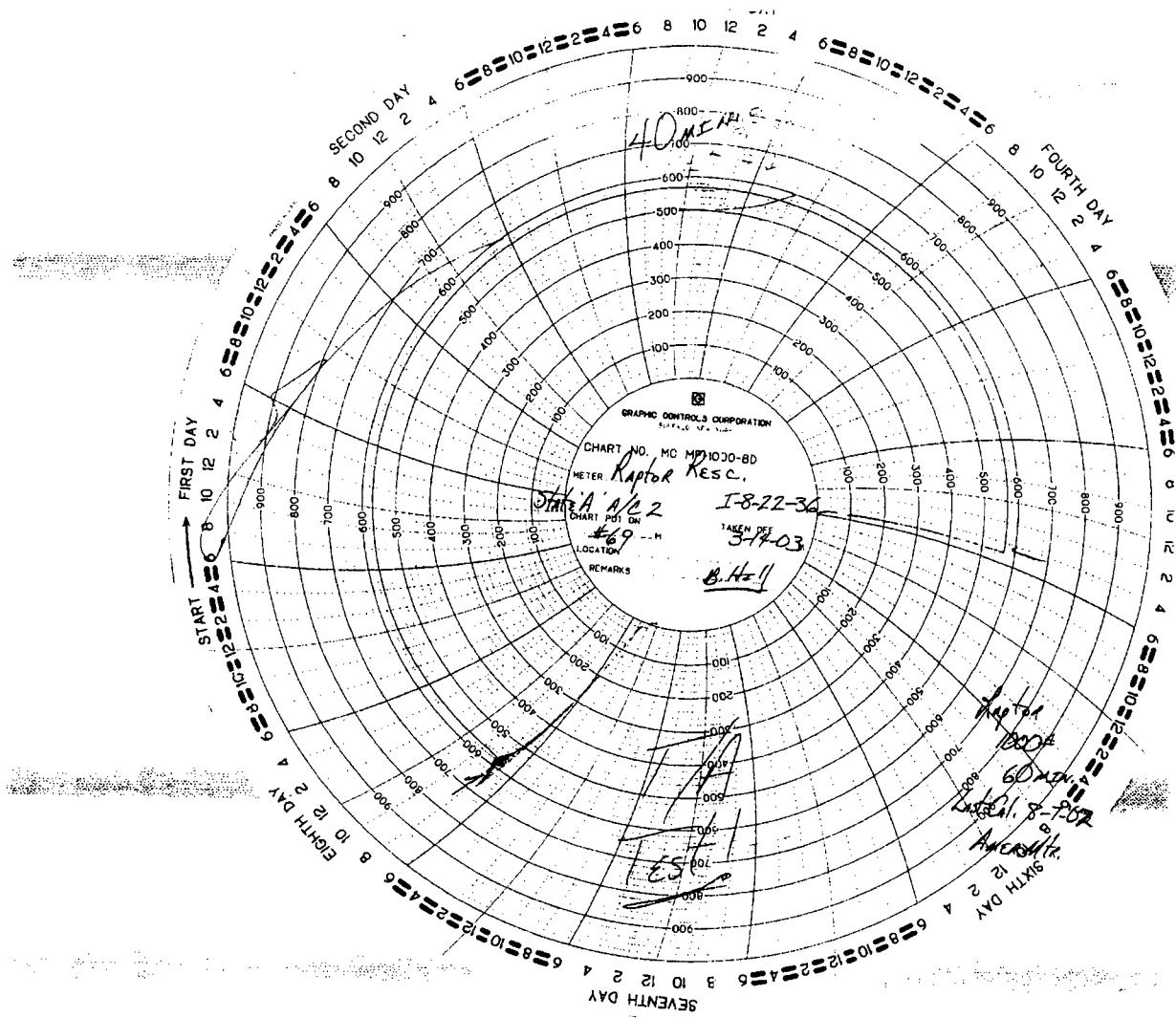
ORIGINAL SIGNED BY

GARY W. WINK  
OCD FIELD REPRESENTATIVE II/STAFF MANAGER

MAR 19 2003

CONDITIONS OF APPROVAL, IF ANY:

R



NAME OR FIRM RECEIVED	DATE RECEIVED
OPERATION	
GATE	
FILE	
DEPT.	
LAW OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

API NO. 30-025-28278

Form O-14A  
Rev. 1974 Ed.

1. A. Indicate type of land:	STATE <input checked="" type="checkbox"/> FILE <input type="checkbox"/>
2. State and/or County Name:	
3. Full Accountant Name:	
4. Driller's License No.:	
5. Well No.:	
6. Depth from Land Surface or Wildcat:	
7. Elevation:	
8. Location of Well:	
9. Depth from Top:	
10. Proposed Casing:	
11. Blanket on file:	
12. Drilling Contractor:	
13. Action Date Work will start:	

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK									
1. Type of Work:									
DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> 2. Type of Well: Oil <input type="checkbox"/> Gas <input type="checkbox"/> Water <input type="checkbox"/> Other <u>WTW</u> 3. Number of Zones: SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>									
<b>Sun Exploration &amp; Production Co.</b> P. O. Box 1861 - Midland, Texas 79702 4. Location of Well: UNIT LETTER <u>I</u> LOCATED <u>2615</u> FEET FROM THE <u>South</u> LINE <u>1295</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>8</u> TWP. <u>22-S</u> RCT. <u>36-E</u> SECTION <u>3550.3'</u> GR <u>Blanket on file</u> N/A * <u>ASAP-</u>									
5. Proposed Casing: 6. Blanket on file: 7. Drilling Contractor: 8. Action Date Work will start:									
9. PROPOSED CASING AND CEMENT PROGRAM									
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP				
<u>12<math>\frac{1}{4}</math></u>	<u>8-5/8</u>	<u>24#</u>	<u>550</u>	<u>375 sxs</u>	<u>Surface</u>				
<u>7-7/8</u>	<u>5-1/2</u>	<u>14#</u>	<u>3900</u>	<u>1100 sxs</u>	<u>Surface</u>				

Blowout preventer 10" Hydraulic

\*19A. Primary Reservoir - Queen  
Secondary Reservoir - Seven Rivers

180 DAYS  
PERMIT EXPIRES 2/15/84  
UNLESS DRILLING UNDERWAY

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed D. Ann Lamp Title Senior Accounting Assistant Date 7-12-83

(This space for State use)  
**ORIGINAL SIGNED BY JERRY SEXTON**  
**DISTRICT 1 SUPERVISOR**

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE AUG 5 1983  
CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

JUL 15 1983

O.C.D.  
Hosas OFFICE

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 10-65

All distances must be from the outer boundaries of the Section

Sun Exploration & Producing Company			Lease	State "A" A/C 2	Well No.
Section	8	Township	36 East	County	69 W/W
I					

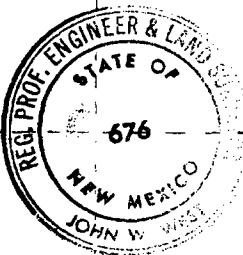
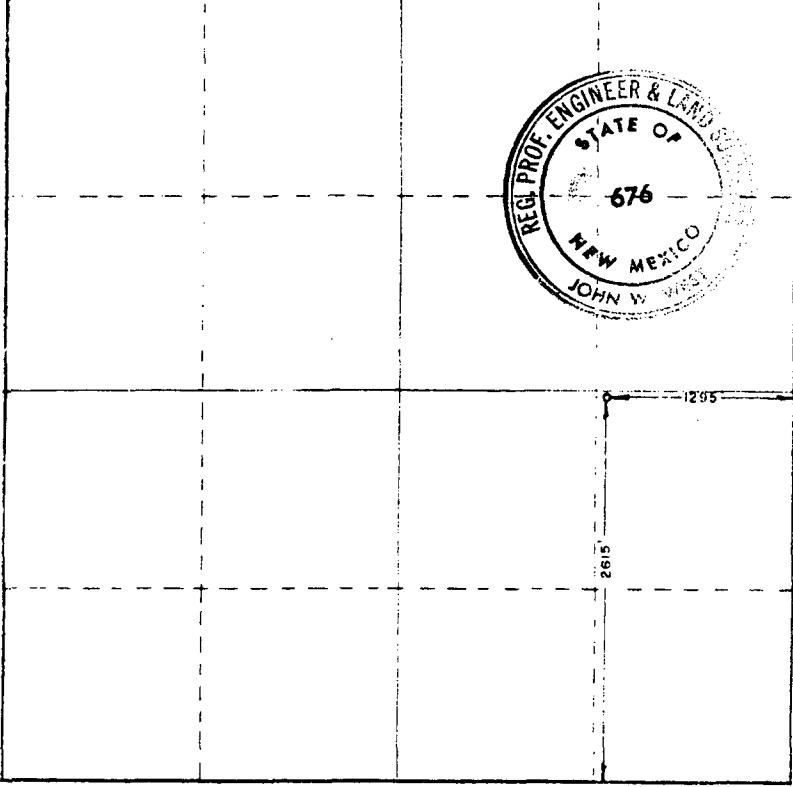
Well Acreage Location of Well:	
2615 feet from the South line and 3550.3 feet from the West line and	1295 feet from the East line and
Producing Formation Quail	Fault Epicenter Seven Rivers River South

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

Yes  No If answer is "yes," type of consolidation \_\_\_\_\_

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

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

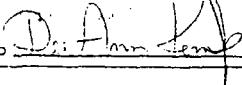
		CERTIFICATION	
		<p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Dee Ann Kemp</i> Dee Ann Kemp Senior Asst. Land Surveyor Sun Exploration &amp; Production Co. 7-12-83</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.</p> <p>June 23 &amp; 24, 1983 Ronald J. Eidsom, Professional Engineer Land Surveyor <i>Ronald J. Eidsom</i></p>	
<p>Certificate No. JOHN W. WEST, 676 RONALD J. EIDSOM, 5239</p>			

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OPERATOR	

Form C-105  
Revised 11-3-78

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

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

1a. TYPE OF WELL		OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER WIW	7. Unit Agreement Name				
b. TYPE OF COMPLETION		NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER	8. Farm or Lease Name				
2. Name of Operator		Sun Exploration & Production Co.		State "A" A/C 2			
3. Address of Operator		P. O. Box 1861, Midland, TX 79702		9. Well No.			
4. Location of Well		UNIT LETTER J LOCATED 2615 FEET FROM THE South LINE AND 1295 FEET FROM THE East LINE OF SEC. 8 TWP. 22-S RGE. 36-E N.M.P.		10. County Lea			
15. Date Spudded		16. Date P.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevation (DE, RKB, RT, GR, etc.)			
9/8/83		9/12/83	10/8/83	3550.3' GR			
19. Total Depth		21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By rotary Tools X Cable Tools			
3900		3897					
24. Protecting Interval(s), of this completion - Top, bottom, Name				25. Was Directional Survey Made Yes			
3400' 3749' - Queen							
26. Type Electric and Other Logs Run		GR-CCL		27. Was Well Cored No			
28. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT L.H., FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD		AMOUNT PULLED	
8-5/8	24#	577	12-1/4	375 Sxs.		None	
5-1/2	14#	3900	7-7/8	800 Sxs.		None	
29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-3/8	3716	3710
31. Perforation Record (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
3808-3862 - 1 JSPF 44 holes w/ 4" CG				DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED			
3750-3802 - 1 JSPF 53 holes w/ 4" CG				3808-3862	Acdz w/ 2500 Gals 15% NEFE HCL		
				3750-3802	Acdz w/ 2500 Gals 15% NEFE HCL		
33. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
Flow Tubing Press.	Coating Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
34. Disposition of Gas (Sold, used for fuel, vented, etc.)						Test Witnessed By	
35. List of Attachments C-103							
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 		TITLE Sr. Acct. Asst.		DATE 10/23/83			

### INSTRUCTIONS

This form is to be filed with the operator's District Office of the Commission not later than 3 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and resistivity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured from the top. In the case of directionally drilled wells, true vertical depths shall also 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 state land, where six copies are required. See Rule 1105.

### INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

#### Southeastern New Mexico

T. Anhy	1409	T. Canyon		T. Ojo Alamo		T. Penn. "B"	
T. Salt		T. Strawn		T. Kirkland-Fruitland		T. Penn. "C"	
B. Salt		T. Atoka		T. Fictured Cliffs		T. Penn. "D"	
T. Yates	3169	T. Miss		T. Cliff House		T. Leadville	
T. 7 Rivers	3356	T. Devonian		T. Menefee		T. Madison	
T. Queen	3749	T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		T. Montoya		T. Mancos		T. McCracken	
T. San Andres		T. Simpson		T. Gallup		T. Ignacio Qzts	
T. Glorieta		T. McKee		Base Greenhorn		T. Granite	
T. Paddock		T. Ellenburger		T. Dakota		T.	
T. Blimebry		T. Gr. Wash		T. Morrison		T.	
T. Tubb		T. Granite		T. Todilto		T.	
T. Drinkard		T. Delaware Sand		T. Entrada		T.	
T. Abo		T. Bone Springs		T. Wingate		T.	
T. Wolfcamp		T. Jansill 3007		T. Chinle		T.	
T. Penn.		T.		T. Permian		T.	
T. Cisco (Hough C)		T.		T. Penn. "A"		T.	

#### OIL OR GAS SANDS OR ZONES

No. 1, from	3750	to	3862	No. 4, from		to	
No. 2, from		to		No. 5, from		to	
No. 3, from		to		No. 6, from		to	

#### IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from		to		feet	
No. 2, from		to		feet	
No. 3, from		to		feet	
No. 4, from		to		feet	

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
1409	2007	1598'	Anhydrite, Some Thin Shales				
3007	3169	162'	Sandstone, Dolomite, Anhydrite				
3169	3356	187'	Dolomite Sands, Dolomite Sandstone				
3356	3749	393'	Sandstone, Dolomite, Sandy Dolomites				RECEIVED
3749	3900	151'	Sandstone, Dolomite Sands, Sandy Dolomites, Some Thin Interbedded Shales				NOV 8 1962 O.C.D. HOBBS OFFICE

Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

2040 Pacheco St.  
Santa Fe, NM 87505

WELL API NO. 30-025-28280

5. Indicate Type of Lease	<input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	

SUNDY 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.)		7. Lease Name or Unit Agreement Name  State A A/C 2
1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER	Water Injection Well	8. Well No. 71
2. Name of Operator Raptor Resources, Inc.	9. Pool Name or Wildcat Eunice SR Queen-South	
3. Address of Operator 901 Rio Grande, Austin, Texas 78701		
4. Well Location Unit Letter M : 1295 Feet From The South Line and 25 Feet From The West Line		
Section 9 Township 22S Range 36E NMPM Lea County	10. Elevation (Show whether DF, RKB, RT, GR, etc.) GR-3569'	

11. 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 OPS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: _____	<input type="checkbox"/>	OTHER: _____	T/A Status Test <input checked="" type="checkbox"/>

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Test Date: 3-14-03

1. Load casing with 2% KCl water and corrosion inhibitor. (Packer @ 3716')
2. Pressure test casing from surface to 3716' to 500 psi for 30 minutes.  
(Record test on chart for OCD subsequent report.)
3. Request TA status for 5 years.

Initials of Temporary  
Appointee Expires 3/19/08

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

SIGNATURE Joel Sisk TITLE Production Foreman DATE 3-17-03  
TYPE OR PRINT NAME Joel Sisk (505) TELEPHONE NO. 394-2574

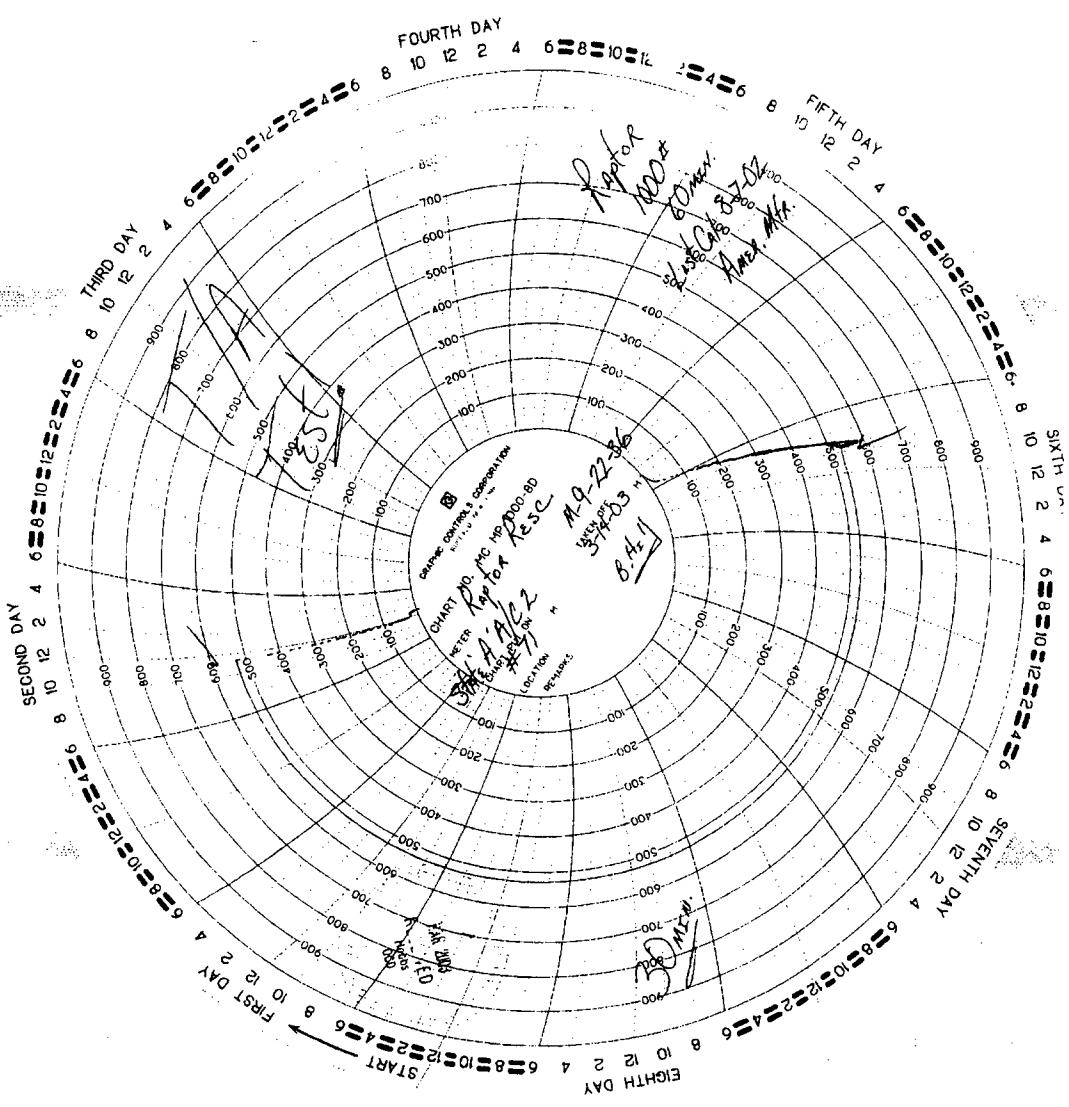
(This space for State Use)

APPROVED BY \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:  
CJS

ORIGINAL SIGNED BY \_\_\_\_\_  
GARY W. WINK TITLE \_\_\_\_\_  
OC FIELD REPRESENTATIVE II/STAFF MANAGER

DATE MAR 1 2003  
MAR 19 2003



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OPERATOR	

**NEW MEXICO OIL CONSERVATION COMMISSION**

API NO. 30-025-28280

Form C-101  
Revised 1-1-65

5A. Indicate Type of Lease	
STATE <input checked="" type="checkbox"/>	FED <input type="checkbox"/>
5. State Oil & Gas Lease No.	
6. Unit Agreement Name	
7. Firm or Lease Name	
State "A" A/C 2	
8. Well No.	
71	
10. Field and Block or Wildcat	
Eunice Seven Rivers	
Queen South	
12. County	
Lea	
14. Estimated Length	
4000	
15. Formation	
* Rotary	
21. Conditions (check whether Drill, R.R., etc.)	
1A. Drill & Bottom Hole, 1981	
1B. Existing Contractor	
22. Approx. Date Work will start	
ASAP -	

<b>APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK</b>									
1. a. Type of Work									
b. Type of Well	DRILL <input checked="" type="checkbox"/>	DEEPEN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>						
OIL WELL <input type="checkbox"/>	GAS WELL <input type="checkbox"/>	C.H.# WIW		SINGLE ZONE <input checked="" type="checkbox"/>	MULTIPLE ZONE <input type="checkbox"/>				
2. Name of Operator									
Sun Exploration & Production Co.									
3. Address of Operator									
P. O. Box 1861 - Midland, Texas 79702									
4. Location of Well									
UNIT LETTER	M	LOCATED	1295	FEET FROM THE	South	LINE			
App.	25	FEET FROM THE	West	LINE OF SECTION	9	TOWNSHIP	22-S	SECTION	36-E
5. Proposed Casing and Cement Program									
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP				
12"	8-5/8"	24#	550	375 SXS	Surface				
7-7/8"	5-15"	14#	3900	1100 SXS	Surface				

Blowout preventer: 10" Hydraulic

\*19A. Primary Reservoir - Queen  
Secondary Reservoir - Seven Rivers

APPROVAL VALID FOR 180 DAYS  
PERMIT EXPIRES 7/21/83  
UNLESS DRILLING UNDERWAY

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed Dee Ann Kamp Title Sr. Accounting Assistant Date 7-12-83

(This agrees for State Dept.)

ORIGINAL SIGNED BY JERRY SEXTON

APPROVED BY JERRY SEXTON DISTRICT SUPERVISOR TITLE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

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AND OFFICE	
OPERATOR	

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

Form C-105  
Revised 11-1-84

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

1a. TYPE OF WELL		OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER WIW					
b. TYPE OF COMPLETION		NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER					
2. Name of Operator <b>Sun Exploration &amp; Production Co.</b> 3. Address of Operator <b>P. O. Box 1861 Midland, TX 79702</b>							
4. Location of Well UNIT LETTER <b>M</b> LOCATED <b>1295</b> FEET FROM THE <b>South</b> LINE AND <b>25</b> FEET FROM <b>Lea</b> , COUNTY <b>Lea</b>							
THE West LINE OF SEC. <b>9</b> TWP. <b>22-S</b> RCT. <b>36-E</b> WMPN:							
15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)					
<b>9/18/83</b>	<b>9/22/83</b>	<b>10/29/83</b>					
18. Elevations (DF, RRR, RF, GR, etc.)							
<b>3568.7' GR</b>							
19. Elevation Casinthead							
20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many					
<b>3900</b>	<b>3890</b>						
23. Intervals Drilled By							
Rotary Tools <input checked="" type="checkbox"/> Cable Tools <input type="checkbox"/>							
24. Producing Interval(s), of this completion - Top, Bottom, Name <b>3719 - 3900 Queen</b>							
25. Was Directional Survey Made <b>Yes</b>							
26. Type Electric and Other Logs Run <b>CNL</b>							
27. Was Well Cored <b>No</b>							
CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD		AMOUNT PULLED	
<b>8-5/8</b>	<b>24#</b>	<b>588</b>	<b>12-1/4</b>	<b>375 Sxs</b>		<b>None</b>	
<b>5-1/2</b>	<b>14#</b>	<b>3900</b>	<b>7-7/8</b>	<b>950 Sxs</b>		<b>None</b>	
28. LINER RECORD			30. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					<b>2-3/8</b>	<b>3716</b>	<b>3710</b>
31. Perforation Record (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
<b>3847-3877 - 1 JSPF 31 holes - w/ 4" OD</b>				DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED		
<b>3783-3835 - 1 JSPF 53 holes - w/ 4" OD</b>				<b>3847-3877</b>	<b>Acdz w/ 1800 gals NEFE HCL</b>		
<b>3763-3775 - 1 JSPF 13 holes - w/ 4" OD</b>				<b>3783-3835</b>	<b>Acdz w/ 3000 gals 15% NEFE HCL</b>		
				<b>3763-3775</b>	<b>Acdz w/ 750 gals 15% NEFE HCL</b>		
33. PRODUCTION							
Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)		
Date of Test	Hours Tested	Choke Size	Prod'n. Per Test Period	OIL - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	OIL - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
34. Disposition of Gas (Sold, used for fuel, vented, etc.)					Test Witnessed By		
List of Attachments <b>C-103</b>							
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 <i>DeAnn Temp</i>	TITLE Sr. Acctng. Asst.				DATE 11/14/83		

### INSTRUCTIONS

This form is to be filed with the upper deepening well. It shall be accompanied by a copy of all electrical and radioactivity 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 also 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 state land, where six copies are required. See Rule 1105.

District Office of the Commission not later than 1 day after the completion of any newly-drilled or re-drilled well, a copy of all electrical and radioactivity 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 also 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 state land, where six copies are required. See Rule 1105.

### INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

#### Southeastern New Mexico

T. Anhy	1439	T. Canyon	
T. Salt		T. Stratton	
B. Salt		T. Atoka	
T. Yates	3148	T. Miss	
T. 7 Rivers	3331	T. Devonian	
T. Queen	3719	T. Silurian	
T. Grayburg		T. Montoya	
T. San Andres		T. Simpson	
T. Glerietta		T. McKee	
T. Paddock		T. Ellenburger	
T. Blinebry		T. Gr. Wash	
T. Tubb		T. Granite	
T. Drinkard		T. Delaware Sand	
T. Abo		T. Bone Springs	
T. Woffcamp		T. Tansill 2985	
T. Penn.		T.	
T. Cisco (Bough C)		T.	

#### Northwestern New Mexico

T. Ojo Alamo		T. Penn. "B"	
T. Kirtland-Fruitland		T. Penn. "C"	
T. Pictured Cliffs		T. Penn. "D"	
T. Cliff House		T. Leadville	
T. Menefee		T. Madison	
T. Point Lookout		T. Elbert	
T. Mancos		T. McCracken	
T. Gallup		T. Ignacio Ozito	
Base Greenhorn		T. Granite	
T. Dakota		T.	
T. Morrison		T.	
T. Todilto		T.	
T. Entrada		T.	
T. Wingate		T.	
T. Chintle		T.	
T. Permian		T.	
T. Penn. "A"		T.	

### OIL OR GAS SANDS OR ZONES

No. 1, from..... 3763 ..... to..... 3877 ..... No. 4, from..... to.....

No. 2, from..... to..... No. 5, from..... to.....

No. 3, from..... to..... No. 6, from..... to.....

### IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from..... to..... feet.

No. 2, from..... to..... feet.

No. 3, from..... to..... feet.

No. 4, from..... to..... feet.

### FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
1439	2985	1546'	Anhydrite, Thin Shales				
2985	3148	163'	Dolomite Some Interbedded Sands				
3148	3331	183'	Dolomite, Sandstone				
3331	3719	388'	Thin Laminated Shales				
3719	3890	171'	Sandstone, Dolomite,				
			Sandy Dolomites and				
			Dolomite Sands				
			Dolomite with interbedded				
			Sandstone and Sandy				
			Dolomites				

*RECEIVED*

*NOV 15 1983*

*G.C.D.  
WOBLES OFFICE*

Attachment E2:

Supplemental Data for C-108, Section VI: Documentation of Plugged Wells

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

NO. OF LETTERS RECEIVED	
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OPERATOR	

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

30025 08/05/84  
Form C-103  
Revised 10-1-

5a. Indicate Type of Lease  
State  Fee   
5. State Oil & Gas Lease No.

SUNDY NOTICES AND REPORTS ON WELLS <small>(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO REOPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT - 1" (FORM C-101) FOR SUCH PROPOSALS.)</small>			
1.	OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7.	Unit Agreement Name
2.	Name of Operator Sun Exploration & Production Co.	8.	Farm or Lease Name State "A" A/C 2
3.	Address of Operator P. O. Box 1861 Midland, TX 79702	9.	Well No. 32
4.	Location of Well UNIT LETTER L 1980 FEET FROM THE South LINE AND 660 FEET FROM	10.	Field and Pool, or Wildcat South Eunice 7 Rivers Queen
	THE West LINE, SECTION 9 TOWNSHIP 22-S RANGE 36-E NMPM.	11.	
15.	Elevation (Show whether DF, RT, GR, etc.)	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 OPS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER <input type="checkbox"/>		OTHER Re-entry to properly P & A <input checked="" 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 103.

- 8-28 Bleed 8-5/8 - 5-1/2 csg Ann from 170-0 PSI  
 8-29 Weld on 5-1/2 collar, NV WH & BOP/RIH 3-7/8" bit on 1-3-1/8 DC/tagged & drld cmt 5-31  
 Fell thru had strong gas blow, died immediately/lwr bit to 67'/POH/RIH w/2-3/8 W.S. 0. to 378' tagged up.  
 8-30 RIH w/3-7/8" bit, 2-3-1/8 DC's on 2-3/8 W.S. to 378'. Drilled wood & paper 378-381,  
 Fell thru/lwr bit to 3385. Drilled hard cmt 3385-3388/circ hole clean/POH/RIH  
 w/2-3/8 O.E. to 3357  
 8-31 Circ hole w/9.0 ppg MUD/POH/CAFFEE shot 5-1/2 collar @ 1212' w/nitro charge/POH  
 & rec 39 jts 5-1/2 csg/top of 5-1/2 stub @ 1212/RIH 2-3/8 tbg O.E. to 1260/McCaffee  
 spot 50 sxs class "C" plug 1260-1090  
 9-1 RIH w/2-3/8 WS, tag cmt plug @ 1039', POH 2-2-7/8 WS Caffey perf 4 sqz hole 930-931,  
 RIH 2/AD-1 pkr on 2-3/8 WS, set pkr @ 63', press 8-5/8 csg to 1000 for 30 min., releas  
 pkr & POH, Caffey perf 4 sqz holes 400-401', RIH w/AD-1 pke on 2-3/8 WS, set pke @ 252  
 Est inj rate 3 BPM @ 400 pse, circ out Braden head, pump 200 sxs cmt plug from  
 400-252.  
 9-2 Press test cmt plug to 500 psi for 5 min OK, released pkr & POH, RIH w/2-3/8 WS, open  
 end to 252', spot 40 sxs cmt plug 252 to 116', POH lay down 2-3/8 WS, spot 10 sxs cmt  
 surface plug, cut well off 4' below GRD-level, weld on steel plate, install marker.

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

SIGNED 	TITLE Associate Accountant	DATE 9-4-84
<small>CONDITIONS OF APPROVAL IF ANY</small>		OIL & GAS INSPECTOR DATE 9-4-84

**DUPLICATE**

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

NOV 26 1945  
RECEIVED

## NOTICE OF INTENTION TO DRILL

Notice must be given to the Oil Conservation Commission or its proper agent and approval obtained before drilling begins. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to the sender. Submit this notice in triplicate. One copy will be returned following approval. See additional instructions in Rules and Regulations of the Commission.

Fort Worth, Texas

November 26, 1945

PLACE

DATE

OIL CONSERVATION COMMISSION,  
Santa Fe, New Mexico.

Gentlemen:

You are hereby notified that it is our intention to commence the drilling of a well to be known as.....  
**TEXAS PACIFIC COAL AND OIL CO STATE NEW MEXICO MAN AC. 2** Well No. **32** in **SW**

COMPANY OR OPERATOR

LEASE

of Sec. **9**, T. **22-8**, R. **36-E**, N. M. P. M. So. **Runica** Field, **Lea** County.The well is **1980** feet (N. S.) of the **South** line and **660** feet (E. W.) of the **West** line of **Section 9**.

(Give location from section or other legal subdivision lines. Cross out wrong directions.)

If state land the oil and gas lease is No..... Assignment No.....

If patented land the owner is.....

Address .....

If government land the permittee is.....

Address .....

The lessee is.....

Address .....

We propose to drill well with drilling equipment as follows: **Rotary tools**

The status of a bond for this well in conformance with Rule 39 of the General Rules and Regulations of the Commission is as follows: **Required bond on file**

We propose to use the following strings of casing and to land or cement them as indicated:

BIGE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	NEW OR SECOND HAND	DEPTH	LANDED OR CEMENTED	BACKS CEMENT
<b>11</b>	<b>8 1/2</b>	<b>26.4</b>	<b>S. H.</b>	<b>400</b>	<b>Cemented</b>	<b>185</b>
<b>9-5/8</b>	<b>7-5/8</b>	<b>26.40</b>	<b>New</b>	<b>1600</b>	<b>"</b>	<b>200</b>
<b>7-1/8</b>	<b>5 1/2</b>	<b>14</b>	<b>New</b>	<b>3800</b>	<b>"</b>	<b>500</b>

If changes in the above plan become advisable we will notify you before cementing or landing casing. We estimate that the first productive oil or gas sand should occur at a depth of about **3870** feet.

Additional information:

Approved..... **NOV 30 1945**, 19.....

Except as follows:

Sincerely yours,

**TEXAS PACIFIC COAL AND OIL COMPANY**

COMPANY OR OPERATOR

By..... *Joe E. Rainey*Position..... **Agent**

Send communications regarding well to

Name..... **R. J. Fleckenstein**Address..... **P. O. Box 2110, Fort Worth 1, Texas**

OIL CONSERVATION COMMISSION,  
*Roy Harrington Jr.*  
 Oil & Gas Inspector  
 Title.....

## FORM C-16

## NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

## WELL RECORD

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or its proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with "(?)". MINUTE IN TYPEFACE.

LAWYER, WELL PERMITTING

TEAS PACIFIC COAL AND OIL COMPANY P. O. Box 2110, Fort Worth 1, Texas

State New Mexico "A" No. 2 Well No. 32 in \_\_\_\_\_ of Section 9 T. 28-6

It is N. M. P. W. No. 36-5 Do. Units Field, Lee County.

Well No. 1980 (cont. from the previous line and) 660 feet east of the center line of Doge 9

If State land the oil and gas lease is No. 2-A Assignment No. 283

If patented land the owner is \_\_\_\_\_ Address \_\_\_\_\_

If Government land the permittee is \_\_\_\_\_ Address \_\_\_\_\_

The lessee is \_\_\_\_\_ Address \_\_\_\_\_

Drilling commenced Doge 1, 1945 Drilling was completed Doge 21, 1945

Name of drilling contractor M. B. K. Drilling Co. Address Tulsa, Oklahoma

Kerstina above sea level at top of casing 3566 feet

The information given is to be kept confidential until 19

## OIL HANDBOOK ZONES

No. 1, from Broken 3680 to 3643 No. 4, from \_\_\_\_\_ to \_\_\_\_\_

No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_

No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

## IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rises in hole.

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ feet \_\_\_\_\_

No. 2, from \_\_\_\_\_ to \_\_\_\_\_ feet \_\_\_\_\_

No. 3, from \_\_\_\_\_ to \_\_\_\_\_ feet \_\_\_\_\_

No. 4, from \_\_\_\_\_ to \_\_\_\_\_ feet \_\_\_\_\_

## CAVING RECORD

NO.	WEIGHT IN POUNDS	THICKNESS IN INCHES	MATERIAL	AMOUNT	KIND OF SHOT	CITY & FILLED FROM	PERFORATED FROM	PURPOSE
12-1/2	50	Laurel 1981						
8-5/8	32	Galena 1532						
5-1/2	14		1692					
2	4-7		3714					

## MUDING AND CIRCULATING RECORD

SIZE OF HOLE	SIZE OF WELLER DIA.	NO. BAGS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
15 1-1/2	204 <sup>2</sup>	150			
11 1-5/8	1540	150			
2-7/8	3704	150			

## PLUG AND ADAPTERS

Having plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth Set \_\_\_\_\_

Adapter—Material \_\_\_\_\_ Size \_\_\_\_\_

## RECORD OF SHOCKING OR CHEMICAL TREATMENT

PIPE NUMBER (END)	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR ESTIMATED	DEPTH CLEARED OUT
	EC14	1000 gals	12-27-45		

Results of shooting or chemical treatment \_\_\_\_\_

Bombed and flowed

## RECORD OF DRILL-ITEM AND SPECIAL TESTS

If drill-item or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

## TOOLS USED

Rotary tools were used from 0 feet to 3643 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## PRODUCTION

Put to production December 21, 1945

The production of the first 24 hours was 40(1/8<sup>2</sup>) barrels of fluid of which % was oil; %

emulsion; % water; and % sediment. Gravity, Re. \_\_\_\_\_

If gas well, cu. ft. per 24 hours \_\_\_\_\_ Cubic gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. \_\_\_\_\_

## EMPLOYMENT

M. B. K. Drilling Co. Driller \_\_\_\_\_ Driller \_\_\_\_\_

## Driller \_\_\_\_\_

## FORMATION RECORD ON OTHER SIDE

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 as far as can be determined from available records.

Subscribed and sworn to before me this 11th day of January 1946

Signature \_\_\_\_\_ Name \_\_\_\_\_

Position \_\_\_\_\_ Agent \_\_\_\_\_

Representing TEXAS PACIFIC COAL AND OIL CO., Company or Name \_\_\_\_\_

Address Fort Worth, Texas \_\_\_\_\_

My Commission expires June 1, 1947

## FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	165	165	Geliche
165	240	75	Sand & red bed
240	392	752	Red Bed
392	1215	223	Red Bed & Sand
1215	1338	123	Red Rock
1338	1410	72	Red Bed & Shells
1410	1470	60	Red rock & Shells
1470	1478	8	Red Rock
1478	1560	82	Anhydrite
1560	2968	1408	Anhydrite & Salt
2968	3024	56	Anhydrite & Lime
3024	3090	66	Lime & Gyp
3090	3147	57	Anhydrite & Lime
3147	3235	88	Lime
3235	3374	139	Anhydrite & Lime
3374	3643	469	Lime
		3843'	TOTAL DEPTH

Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-93

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Salado Rd., Aztec, NM 87410

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

WELL API NO.	30-025-23546
5. Indicate Type of Lease	
STATE <input checked="" type="checkbox"/>	FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	

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

1. Type of Well: Oil <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Other <input type="checkbox"/>	State A AC 2
2. Name of Operator: Clayton W. Williams, Jr., Inc.	3. Well No. 32Y
3. Address of Operator: Six Desta DRIVE, Suite 3000 Midland, Texas 79705	9. Pool name or Wildcat Eunice 7 Rvrs Queen South
4. Well Location Unit Letter L : 2050 Feet From The South Line and 760 Feet From The West Line	Section 9 Township 22S Range 36E NMPM Lea County
10. Elevation (Show whether DF, RIB, RT, GR, etc.)	

11. 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 checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>		
OTHER: <input type="checkbox"/>	OTHER: <input type="checkbox"/>		

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

3/05/93 Set CIBP @ 3650'. Dumped 40' cement on CIBP.

3/17 - Displaced hole w/65 bbls 10 ppg gelled brine from CIBP to surface.  
3/20/93 Perforated 4-1/2" casing @ 360', 2 SPF. Pumped 135 sx Class "C" w/2% CaCl<sub>2</sub> down 4-1/2" casing and up 4-1/2" casing and up 4-1/2"/7-5/8" annulus. Circulate 20 sx cement to pits. Cut casing 3' below G.L. and install P & A marker

SEE ATTACHED WELLBORE DIAGRAM

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

SIGNATURE David Grafe TITLE Petroleum Engineer DATE 03/26/93

TYPE OR PRINT NAME David Grafe TELEPHONE NO. 682-6324

(This space for State Use)

APPROVED BY Charles Person

TITLE OIL & GAS INSPECTOR APR 20 1993

CONDITIONS OF APPROVAL, IF ANY:

A. Orsi

C

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U.S.G.S.	
LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101  
Revised 1-1-68

SA. Indicate Type of Lease	
STATE <input checked="" type="checkbox"/>	FEES <input type="checkbox"/>
S. State Oil & Gas Lease No.	
NM 2A	
7. Unit Agreement Name	
8. Farm or Lease Name	
State "A" A/c-2	
9. Well No.	
32Y	
10. Field and Pool, or Wildcat	
South Eunice	
12. County	
Lea	
19. Proposed Depth	
3900'	
19A. Formation	
7-Rvrs. Queen	
20. Rotary or C.T.	
Rotary	
21. Elevations (Show whether DE, RT, etc.)	
3563.5' GR	
21A. Kind & Status Plug. Bond	
As Required	
21B. Drilling Contractor	
Leatherwood	
22. Approx. Date Work will start	
Upon Approval	

1a. Type of Work		7. Unit Agreement Name	
DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			
b. Type of Well		8. Farm or Lease Name	
OIL WELL <input type="checkbox"/>	GAS WELL <input type="checkbox"/>	State "A" A/c-2	
OTHER Injection Well		9. Well No.	
2. Name of Operator		32Y	
TEXAS PACIFIC OIL CO., INC.		10. Field and Pool, or Wildcat	
3. Address of Operator		South Eunice	
P. O. Box 1069 Hobbs, New Mexico 88240		12. County	
4. Location of Well		Lea	
UNIT LETTER	L	LOCATED	2050 FEET FROM THE South LINE
AND	760 FEET FROM THE West LINE OF SEC. 9 TWP. 22-S RGE. 36-E NMPM		
23. PROPOSED CASING AND CEMENT PROGRAM		19. Proposed Depth	
		19A. Formation	
		20. Rotary or C.T.	
3563.5' GR		3900' 7-Rvrs. Queen Rotary	
As Required		21. Drilling Contractor	
Leatherwood		22. Approx. Date Work will start	
		Upon Approval	

This well will be drilled 70' North & 100' East of State "A" A/c-2 Well No. 32 (TA)  
to be drilled as a water injection well for State "A" A/c-2 Lease.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed	Sheldon Ward	Title	Area Superintendent	Date	7-2-70
(This space for State Use)					
APPROVED BY	SUPERVISOR DISTRICT			DATE	
JUL 6 1970					
CONDITIONS OF APPROVAL, IF ANY:					

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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 <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.
<b>MM 2 A</b>

1a. TYPE OF WELL	OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____	7. Unit Agreement Name					
b. TYPE OF COMPLETION	NEW <input checked="" type="checkbox"/> WELL WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER <input type="checkbox"/>	8. Farm or Lease Name					
2. Name of Operator	<b>Texas Pacific Oil Company, Inc.</b>	9. Well No.					
3. Address of Operator	P. O. Box 1069, Hobbs, New Mexico 88240	10. Field and Pool, or Wildcat					
4. Location of Well	L LOCATED 2050 FEET FROM THE South LINE AND 760 FEET FROM THE West LINE OR SEC. 9 TWP. 22-8 RGE. 36-8 NMPM	12. County Lee					
15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Casinghead			
7-9-70	7-18-70	7-28-70	3560' GR				
20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools <input type="checkbox"/> Cable Tools <input type="checkbox"/>			
3900	3870'		Surf. - 3900'				
24. Producing Interval(s), of this completion — Top, Bottom, Name	25. Was Directional Survey Made						
<b>3702 - 3782'</b>	yes						
26. Type Electric and Other Logs Run	27. Was Well Cored						
<b>BHC, GR/N; Laterolog</b>							
CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED		
7-5/8"	26#	357	11	175			
4-1/2"	9.44	3900	6-3/4	300			
29. LINER RECORD	30. TUBING RECORD						
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-3/8"		3763"
31. Perforation Record (Interval, size and number)					32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		
<b>3702-05-10-14-16-21-23-25-29-40-49-53-58-65- 67-72-80-82</b>					DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	
					<b>3702 - 3782'</b>	<b>2000 Gal. 15% HCl Acid</b>	
33. PRODUCTION							
Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)				Well Status (Prod. or Shut-in)		
<b>7-28-70</b>	<b>Pump</b>						
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
<b>7-29-70</b>	<b>26</b>		<b>18</b>	<b>737M</b>		<b>126</b>	
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
			<b>18</b>	<b>737M</b>	<b>126</b>		
34. Disposition of Gas (Sold, used for fuel, vented, etc.)					Test Witnessed By		
35. List of Attachments							
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. <b>Original Signed by</b>							
SIGNED <b>Sheldon Ward</b>		TITLE <b>Area Superintendent</b>		DATE <b>October 6, 1970</b>			

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. 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 conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also 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 state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Rustler 1423		Southeastern New Mexico		Northwestern New Mexico	
T. Anhy		T. Canyon		T. Ojo Alamo	
T. Salt		T. Strawn		T. Kirtland-Fruitland	
B. Salt		T. Atoka		T. Pictured Cliffs	
T. Yates	3128	T. Miss		T. Cliff House	
T. 7 Rivers	3309	T. Devonian		T. Menefee	
T. Queen	3702	T. Silurian		T. Point Lookout	
T. Grayburg	3873	T. Montoya		T. Mancos	
T. San Andres		T. Simpson		T. Gallup	
T. Giorietta		T. McKee		Base Greenhorn	
T. Paddock		T. Ellenburger		T. Dakota	
T. Elinebry		T. Gr. Wash		T. Morrison	
T. Tubb		T. Granite		T. Todilto	
T. Drinkard		T. Delaware Sand		T. Entrada	
T. Abo		T. Bone Springs		T. Wingate	
T. Wolfcamp		T.		T. Chinle	
T. Penn		T.		T. Permian	
T Cisco (Bough C)		T.		T. Penn. "A"	

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
357	540		Red Bed				
540	977		Red Bed & Sand				
977	1325		Red Bed & Anhydrite				
1325	2970		Anhydrite & Salt				
2970	3187		Anhydrite & Lime				
3187	3900		Lime				

Attachment F:  
Supplemental Data for C-108, Section VII - Geology

## Supplement to Section VII: Geology

Geolex, Inc. (Geolex) has conducted a geologic analysis of relevant formations under and around Petrohawk's proposed project area. The proposed project is located in the Sections 8 and 9, T 22S, R 36E, in southeastern Lea County, New Mexico. Geologic analyses were concentrated in an area comprised of a one-mile radius around the proposed site (study area) in order to describe the suitability of the formations in this area for injection. All wells in the plant area were plotted, and formation tops established, based on operator reports and knowledge of the area. Since the proposed project is limited to the Queen Formation, this evaluation did not examine deeper formations (deeper than approximately 4000 feet below the surface), except to the extent necessary to evaluate the suitability of the Queen for waterflooding as a closed system.

The local stratigraphy in the section of interest consists of the Artesia Group, including the Tansil, Yates, Seven Rivers, Queen and Grayburg Formations. The Artesia Group is a sequence of carbonates, evaporites, sandstones, siltstones, and shales that was deposited on the back-reef shelves of the Permian Basin of Texas and New Mexico during late Permian (Guadalupian) time.

Above the Artesia Group lie the halite-rich beds of the Salado Formation, overlain in turn by the sands and redbeds of the Rustler Formation.

The Salado is of importance as a regional, relatively impermeable seal overlying the locally porous and permeable reservoirs in the Artesia Group. As seen in Figure 1, the Salado lies approximately 1600 to 1700 feet below the surface, at an elevation of approximately 1900 feet above sea level. The thickness of the Salado is approximately 1500 feet in the study area (Figure 2).

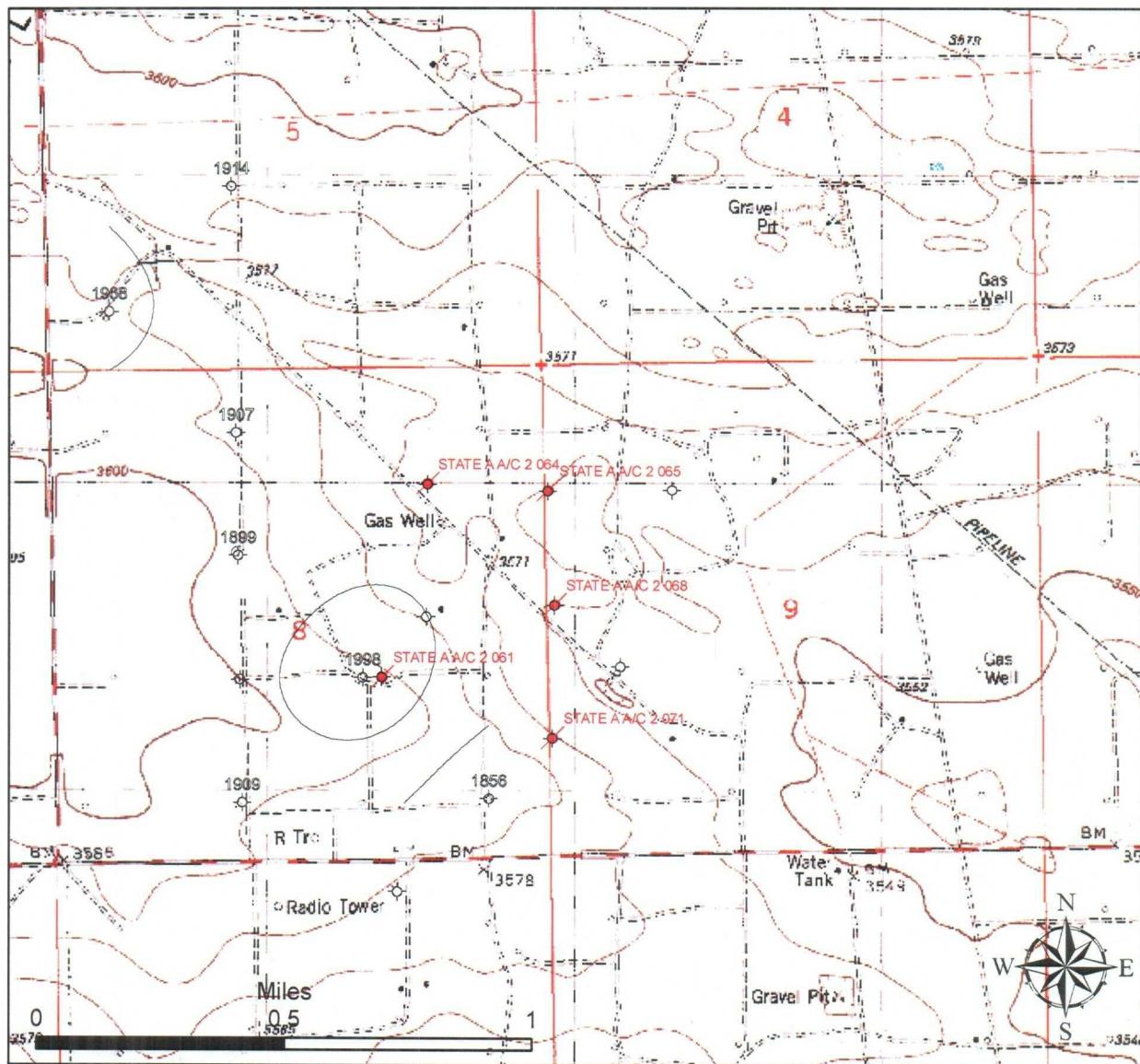
The Tansil and Yates Formations are approximately 200 feet in total thickness between the Salado salt and the Seven Rivers and Queen Formations.

The Permian (Guadalupian) Queen Formation is of a complex suite of siliciclastics, carbonates, and evaporites deposited within and marginal to the Permian Basin. Sediment deposition is aggradational and indicative of a Middle Permian highstand. Vertical facies changes are probably the combined result of uninhibited lateral shifting of channels and high frequency base-level changes. The Queen Formation contains two reservoir types; (1) siliciclastic reservoirs capped by evaporites and (2) layer-cake carbonate reservoirs. In the underlying Grayburg Formation, evaporites, supratidal carbonates, and low permeability siltstones provide the seal for the reservoir. These changes have resulted in areas discretely-separated zones of good porosity and permeability in the Queen, sealed by evaporites and clastics.

The geometry of the porous and relatively non-porous zones in the Queen Formation is seen in cross-section Figure 3. The log sections show that the porous zones are closed by overlying and underlying beds.

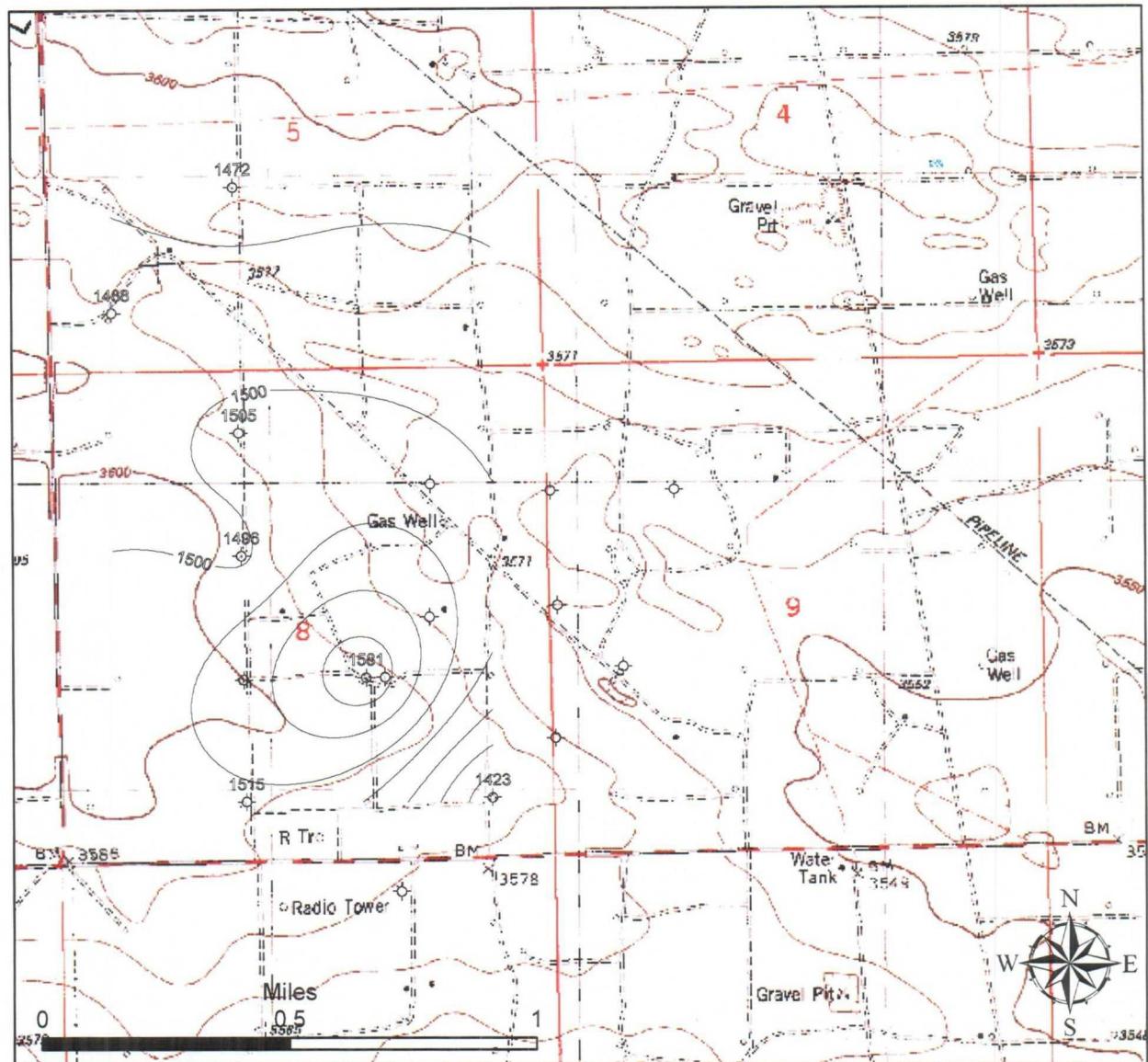
There are no significant mapped faults in the area which penetrate the overlying salt in the study area.

The presence of a massive and regional salt seal, a thick and porous injection zone, and the absence of any complicating structures makes the Queen Formation a closed system, suitable for the proposed project.



**Attachment F - Figure 1:**  
**Elevations of Salt in Vicinity of Petrohawk Project**

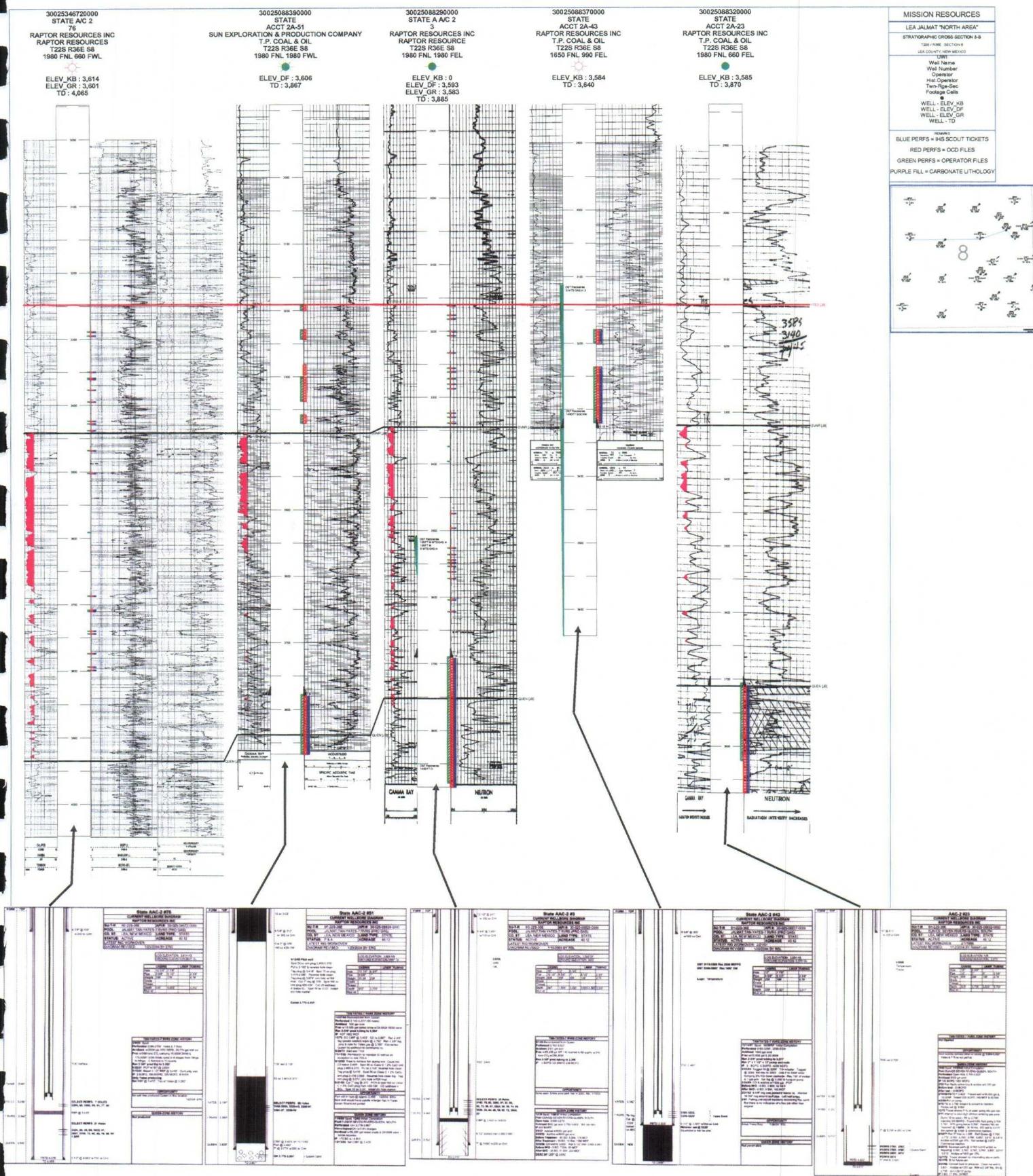
● Proposed Waterflood Wells



Sections 4, 5, 8, 9, 16 and 17; T22S, R36E

**Attachment F - Figure 2:  
Thickness of Salt in Vicinity of Petrohawk Project**

Figure 3 – East-West Cross Section on North Side of Section 8, T22S, R36E



Attachment G:

Supplemental Data for C-108, Section VII – Injection Fluid Analyses



Attachment H:

Supplemental Data for C-108, Section VII – Formation Fluid Analyses

P.O. BOX 98  
MIDLAND, TX. 79702  
PHONE (432) 683-4521

Martin Water Laboratories, Inc.

709 W. INDIANA  
MIDLAND, TEXAS 79701  
FAX (432) 682-8819

RESULT OF WATER ANALYSES

207-41

TO: Mr. Jim McCright  
4305 North Garfield, Suite 214, Midland, TX 79705

LABORATORY NO. \_\_\_\_\_  
SAMPLE RECEIVED \_\_\_\_\_  
RESULTS REPORTED \_\_\_\_\_

1-31-07

2-2-07

COMPANY Petrohawk LEASE State "A"

FIELD OR POOL \_\_\_\_\_

SECTION \_\_\_\_ BLOCK \_\_\_\_ SURVEY \_\_\_\_\_ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 ACC 1.

NO. 2 ACC 2.

NO. 3

NO. 4

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES

	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0070	1.0340		
pH When Sampled				
pH When Received	6.68	7.36		
Bicarbonate as HCO <sub>3</sub>	1,281	1,159		
Supersaturation as CaCO <sub>3</sub>				
Undersaturation as CaCO <sub>3</sub>				
Total Hardness as CaCO <sub>3</sub>	2,880	14,700		
Calcium as Ca	896	3,120		
Magnesium as Mg	156	1,677		
Sodium and/or Potassium	2,601	12,507		
Sulfate as SO <sub>4</sub>	649	850		
Chloride as Cl	4,829	28,408		
Iron as Fe	5.7	61.8		
Barium as Ba	0	0		
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	10,412	47,721		
Temperature °F.				
Carbon Dioxide, Calculated	525	95		
Dissolved Oxygen				
Hydrogen Sulfide	424	0.0		
Resistivity, ohms/m at 77° F.	0.620	0.166		
Suspended Oil				
Finable Solids XXXXXXXX Corrosiveness	None	None		
Barium Sulfate Scaling Tendency	None	None		
CaCO <sub>3</sub> S.I. @ 77° F. (Stiff-Davis)	0.56	1.12		
CaCO <sub>3</sub> S.I. @ 122° F. (Stiff-Davis)	1.15	1.72		
Calcium Sulfate Scaling Tendency	None	None		

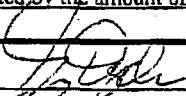
Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

CaCO<sub>3</sub> S.I. - A positive fig. signifies a scaling potential proportionate to the magnitude of the number, and a negative fig. signifies no scaling potential.

Each water was analyzed individually and then hypothetically combined in various proportions to determine the compatibility of the two waters. The combination would not be expected to result in barium sulfate or calcium sulfate scaling potential. However, each individual water shows a calcium carbonate scaling tendency and a combination would also likely show this tendency. Another area of concern when mixing these waters would be the hydrogen sulfide in the ACC #1 and the iron in ACC #2 would precipitate iron sulfide. However, this precipitate would be limited by the amount of iron present. No other conditions of concern are seen regarding the combining of these waters.

Form No. 3

By 

Greg Ogden, B.S.

Appendix I:  
Supplemental Data for Section VIII: Local Groundwater Analyses

TABLE 8. CHEMICAL ANALYSES OF WATER FROM WELLS IN SOUTHERN LEA COUNTY, N. MEX. (continued)

Sample	Location number*	Date of collection	Geologic source†	Depth (ft)	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium plus potassium (Na-K)	Bicarbonate (HCO <sub>3</sub> )	Carbo-nate (CO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluo-ride (F)	Ni-trate (NO <sub>3</sub> )	Dis-solved solids (sum)	Hard-ness as CaCO <sub>3</sub>	Per-cent calcium, magnesium	Specific conductance (micro-mhos at 25°C)	pH
32	21.38.6.133a	12-7-53	Qal	902	—	—	—	—	284 4.65	0	188 3.91	174 4.91	—	25 .40	—	—	—	1,360	—
33	21.38.6.133a	9-9-58	Qal	902	—	—	—	—	257 4.21	0	182 3.79	156 4.40	—	—	—	460	—	1,250	7.4
34	21.38.6.133b	12-7-53	Qal	108	—	—	—	—	253 4.15	0	119 2.48	105 2.96	—	18 .29	—	—	—	977	—
35	21.38.6.133b	9-9-58	Qal	108	—	—	—	—	223 3.65	0	213 4.43	340 9.59	—	—	—	710	—	1,780	7.5
36	22.36.1.333	11-12-53	To	150	59	266 13.27	178 14.64	788 34.28	522 8.55	0	201 4.18	1,750 19.36	0.7 .04	2.4 .04	3,500	1,400	55	6,170	—
37	22.36.2.444	4-22-55	—	—	—	—	—	—	234 3.83	0	333 6.98	205 5.78	—	—	—	—	—	1,590	7.5
38	22.36.2.444	9-9-58	—	—	—	—	—	—	258 4.23	0	319 6.64	415 11.70	—	—	—	570	—	2,200	7.3
39	22.36.8.443	7-23-53	Tr	1,000±	—	18 22	6 50	425 18.49	477 7.82	—	340 6.80	200 5.64	—	—	—	—	—	—	—
40	22.36.11.224	7-31-54	To	120+	—	—	—	—	214 3.51	0	226 4.71	110 3.10	—	—	—	—	—	1,100	—
41	22.36.11.224	4-22-55	To	120+	—	—	—	—	221 3.62	0	217 4.52	106 2.99	—	—	—	315	—	1,090	7.6
42	22.36.11.224	9-9-58	To	120+	—	—	—	—	206 3.38	0	212 4.41	110 3.10	—	—	—	260	—	1,050	7.6
43	22.37.1.440	10-14-53	Qal	—	74	222 11.08	107 8.80	375 16.31	189 3.10	0	841 17.51	525 14.81	3.1 .16	38 .61	2,280	994	45	3,330	—
44	22.37.1.440	9-8-58	Qal	—	—	—	—	—	211 3.16	0	448 9.33	320 9.02	—	—	—	580	—	2,180	7.5
45	22.37.24.133b	10-14-53	Qal	80	82	218 10.88	131 10.77	254 11.05	187 3.06	0	482 10.03	675 19.04	2.5 .13	26 .42	1,960	1,080	34	3,200	—

Geology and Ground-Water  
Conditions in Southern  
Lea County, New Mexico

by ALEXANDER NICHOLSON, Jr.  
and ALFRED CLEBSCH, JR.

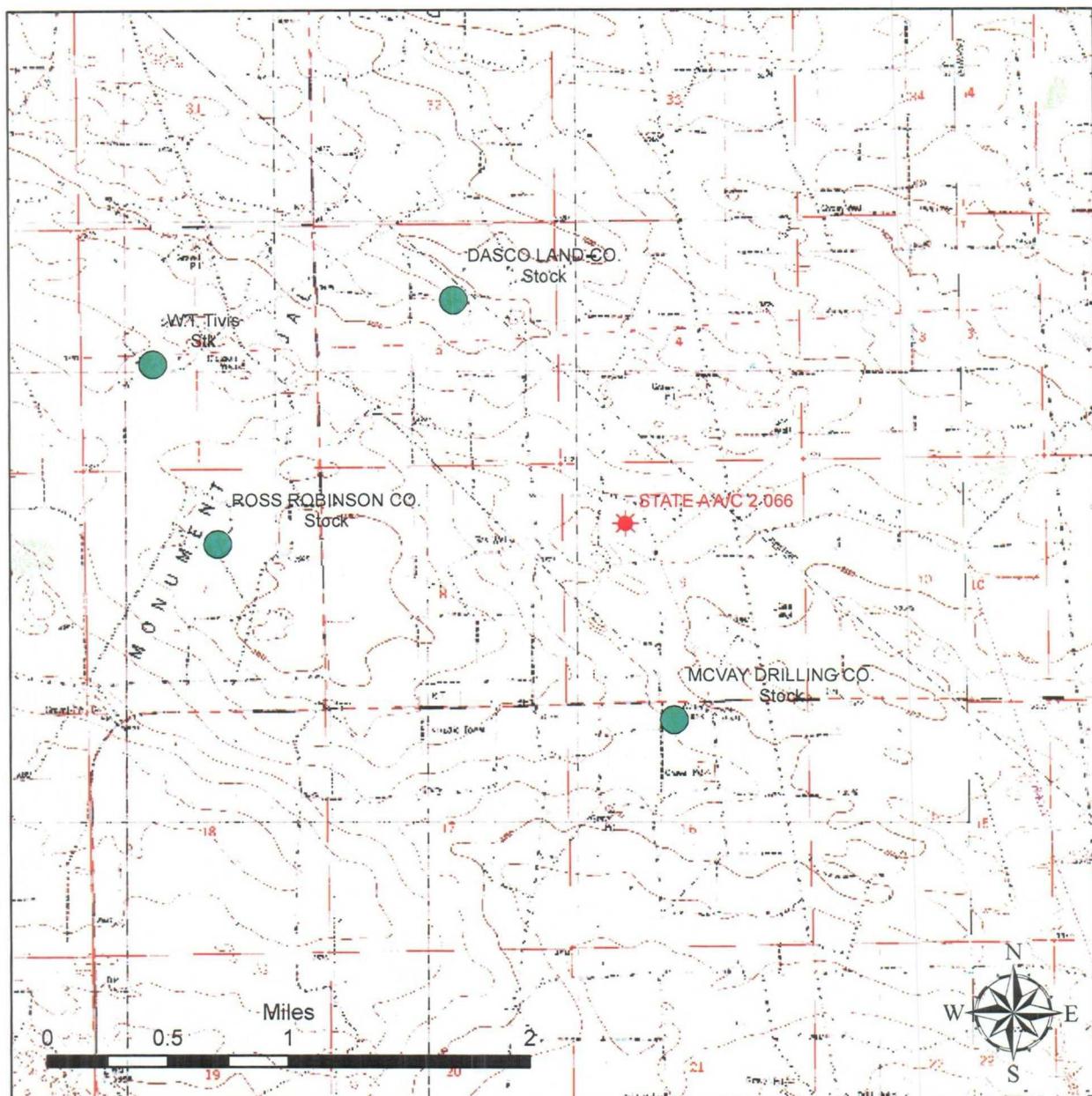
UNITED STATES GEOLOGICAL SURVEY

Prepared in cooperation with the  
New Mexico Institute of Mining and Technology,  
State Bureau of Mines and Mineral Resources Division  
and the New Mexico State Engineer

1961

STATE BUREAU OF MINES AND MINERAL RESOURCES  
NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY  
CAMPUS STATION  
SOCORRO, NEW MEXICO

**Appendix J:**  
**Supplemental Data for C-108, Section XI: Water Wells**



Sections 5, 5, 8, 9 and 16; T22S, R36E

**Appendix J:  
Locations of Water Wells Within One Mile of  
Proposed Salt Water Disposal Well State A A/C 2 #66**

- Proposed Salt Water Disposal Well
- Water Well

**New Mexico State Engineer's Data on Wells in Vicinity of Proposed Project**

DB File Number	Use	Diversion	Owner	UTM North	Date	Tws.	Rng.	Sec.	UTM East	Well Depth	Depth to Water
CP469	STK	3	W.T Tivis	3588039	2/7/1969	22S	36E	6	659183	220	195
CP476	STK	0	ROSS ROBINSON CO.	3586836		22S	36E	7	659607		
CP727	STK	3	DASCO LAND CO	3588466	4/26/1988	22S	36E	5	661185	228	
CP70	STK	3	MCVAY DRILLING CO.	3585670	10/5/1972	22S	36E	16	662643	220	170