



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

**Mark E. Fesmire, P.E.**

Director

**Oil Conservation Division**

January 4, 2005

Arena Resources, Inc.  
4920 S. Lewis  
Suite 107  
Tulsa, Oklahoma 74105

Attention; Mr. Phillip W. Terry

Re: Form C-108  
East Hobbs SA Unit Waterflood Project  
Lea County, New Mexico

Dear Mr. Terry:

I have reviewed your recent application to covert five wells to injection within the East Hobbs San Andres Unit Waterflood Project. Everything appears to be in order; however, there is missing data with regards to the following-described plugged and abandoned wells:

Velma Petroleum	Bowers Federal No. 1	Unit I, Section 25, T-18S, R-39E
Carper Drilling	Bowers Federal No. 2	Unit P, Section 25, T-18S, R-39E
Aurora Gas Co.	Charles Browning No. 1	Unit E, Section 29, T-18S, R-39E
Texland	Bailey No. 4	Texas

Please provide schematics showing all plugging detail for the wells listed above. Your application will be processed when this information is received.

If you should have any questions, please contact me at (505) 476-3466.

Sincerely,

David Catanach  
Engineer



4920 S. Lewis, Suite 107 Tulsa, Oklahoma 74105  
Phone (918) 747-6060 FAX (918) 747-7620

January 12, 2005

Mr. David Catanach  
New Mexico Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**RECEIVED**

JAN 19 2005

**OIL CONSERVATION  
DIVISION**

Re: Form C-108  
East Hobbs San Andres Unit Waterflood Project  
Lea County, New Mexico

Dear Mr. Catanach:

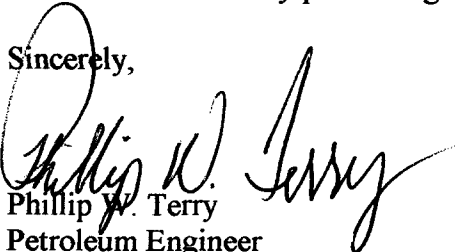
Enclosed please find plugging information you requested in your letter of January 4, 2005. The information pertains to the following wells:

Bowers Federal No. 1	Unit I, Sec.25-18S-39E
Bowers Federal No. 2	Unit P, Sec.25-18S-39E
Charles Browning No, 1	Unit E, Sec.29-18S-39E
Bailey No. 4	Gaines County, Texas

Plugging reports and wellbore diagrams are submitted for the Bowers Federal No. 1, Charles Browning No. 2, and the Bailey No. 4. Plugging information could not be found for the Bowers Federal #2. The well was plugged but the report is not on file with the NMOCD, New Mexico Bureau of Geology and Mineral Resources, NMOCD archives, IHS Energy, or other commercial data sources. A wellbore diagram of the Bowers Federal #2 was prepared by Arena and is enclosed.

Please contact this office should you require additional information. Arena Resources, Inc. thanks you in advance for the timely processing and approval of the East Hobbs San Andres Unit injection application.

Sincerely,

  
Phillip W. Terry  
Petroleum Engineer



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

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January 4, 2005

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Attention: Mr. Phillip W. Terry

Re: Form C-108  
East Hobbs SA Unit Waterflood Project  
Lea County, New Mexico

Dear Mr. Terry:

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Velma Petroleum	Bowers Federal No. 1	Unit I, Section 25, T-18S, R-39E	30-025-074010
Carper Drilling	Bowers Federal No. 2	Unit P, Section 25, T-18S, R-39E	30-025-07402
Aurora Gas Co.	Charles Browning No. 1	Unit E, Section 29, T-18S, R-39E	30-025-07942
Texland	Bailey No. 4	Texas	42-105-01230

NEED P/A DATA  
FROM CONSTRUCT  
WELLBORE DIAGRAMS

Please provide schematics showing all plugging detail for the wells listed above.  
Your application will be processed when this information is received.

If you should have any questions, please contact me at (505) 476-3466.

Sincerely,

David Catanach  
Engineer

Elevation: GL3623'

**ORIGINAL OPERATOR:** Velma Petroleum

**SPUDED:** 12/07/1953

**IP: 180 BOPD 80BWPD**

8-5/8" 24# csg @ 1895' w/900sx of cmt

**TREATMENT HISTORY:**

Perf 4426-4493, 1250 gal acid type A

Ran

25 sks. Cmt on bottom

25 sks. Cmt at stub of 5 1/2" -2520'

25 sks. Cmt at 1850-1950'

10 sks. Cmt at surface

Hole filled with mud between plug

**ARENA RESOURCES, INC.**

**Bowers Federal # 1**

**LEA County, New Mexico**

**1650'FSL 330' FEL Sec 25, T18S, R38E**

**API NO.: 30-025-07401**

**TUBING RECORD:**

No record

**ROD STRING RECORD:**

**PUMP RECORD:**

**PUMPING UNIT:**

Perf 4426-4493

5 1/2' 14# csg @ 4426' w/120 sx cmt

Orig. PBTD:

TD: 4493'

PREPARED BY: HK 01/10/05

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

**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—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	5. LEASE DESIGNATION AND SERIAL NO. <b>14 01231(4)</b>
2. NAME OF OPERATOR <b>Leroy Wise (Velma Petroleum Corporation)</b>	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR <b>Box 1955, Hobbs, New Mexico 88240</b>	7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>1650' FSL and 330' FEL of Section 25</b>	8. FARM OR LEASE NAME <b>Federal Reserve</b>
	9. WELL NO. <b>1</b>
	10. FIELD AND POOL, OR WILDCAT <b>San Andres East</b>
	11. SEC., T., R. M., OR BLM. AND SURVEY OR AREA <b>25-185-381</b>
14. PERMIT NO.	12. COUNTY OR PARISH <b>Lea</b>
15. ELEVATIONS (Show whether DF, ST, CR, etc.)	13. STATE <b>New Mexico</b>

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**138 bbls. lease crude used for fishing**

**Run 25 sks. cement on bottom  
25 sks. cement at stub of 5 1/2" - 2520'  
25 sks. cement at 1850-1950'  
10 sks. cement at surface**

**Hole filled with mud between plugs.**

**Set marker.**

**Work completed May 18, 1968**

18. I hereby certify that the foregoing is true and correct

SIGNED

*J. Johnson*

TITLE **Agent**

DATE **May 24, 1968**

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

\*See Instructions on Reverse Side

Elevation: GL3621'

**ORIGINAL OPERATOR:** Velma Petroleum

**SPUDDED:** 01/02/1954

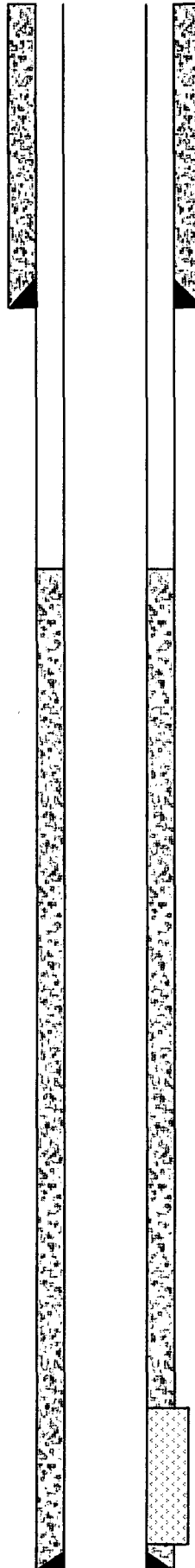
**IP: BOPD BWPD**

8-5/8" 24# csg @ 1890' w/1000sx of cmt

**TREATMENT HISTORY:**

Interval 4479-4495, 500 gal acid type A

5 1/2' 14# csg @ 4479' w/120 sx cmt



**ARENA RESOURCES, INC.**

**Bowers Federal # 2**

**LEA County, New Mexico**

**990'FSL 330' FEL Sec 25, T18S, R38E**

**API NO.: 30-025-07402**

**TUBING RECORD:**

No record

**ROD STRING RECORD:**

**PUMP RECORD:**

**PUMPING UNIT:**

Perf 4479'-4513'

Orig. PBTD:

TD: 4513'

PREPARED BY: HK 01//10/05

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Search  
the Web

Search

**YAHOO! MAIL**Welcome, **alkohen75**  
[Sign Out, My Account]

Mail Home - Mail Tutorials - Help

**Equifax Credit Watch™, Now with wireless alerts.**  
**Try it FREE for 30-Days.**[Learn More](#)**EQUI****Mail**

Addresses ▾

Calendar ▾

Notepad ▾

**Mail Upgrades - Mail Options****Check Mail****Compose****Search Mail** ▾**Search the Web****Folders**

[Add - Edit]

**Inbox (3)**

Draft

Sent

Bulk [Empty]

Trash [Empty]

**My Folders**

[Hide]

**TONTON**What's your Credit  
Score? See it FREE!Netflix DVD  
Rentals Delivered!Netflix DVD  
Rentals Delivered!Best card  
for bad credit[Previous](#) | [Next](#) | [Back to Messages](#)[Printable View](#)**Delete****Reply** ▾**Forward** ▾**Spam****Move...** ▾This message is not flagged. [ [Flag Message](#) - [Mark as Unread](#) ]**Date:** Tue, 11 Jan 2005 13:24:04 -0700**From:** "Ron Broadhead" <ron@gis.nmt.edu> [Add to Address Book](#)**To:** "henry konan" <alkohen75@yahoo.com>**CC:** bureau@gis.nmt.edu**Subject:** Re: \*\*\*\*SPAM\*\*\*\* plug-in data for Bowers federal # 2

Hi Henry

We have a well record for a Carper Drilling No. 2 Bowers Fede  
in

Section 25 T18S R38E. There is no Section 25 T18S R39E, as th  
location  
would be across the state line in Texas.

The well we have record for had a TD of 4513 ft in the San An  
Formation. It was completed January 23, 1954 and drilled with  
tools. 8 5/8 in casing was set at 1890 ft. 5 1/2 in casing wa  
4479 ft. The well was swabbed dry from 4479 to 4495 ft with n  
water-bearing zone was reported from 4493 to 4495 ft in the S  
The well was P&A'd. We have no record of the exact plugging m

Hope this provides you with the information you need.

Sincerely,

Ron Broadhead  
New Mexico Bureau of Geology and Mineral Resources

henry konan wrote:

> Hi ron,  
> My name is henry konan and i work for Arena resources

Elevation: 3508

ORIGINAL OPERATOR: Aurora Gas Co

SPUDDED: 11/05/1953

IP: 864 BOPD

7 5/8" @ 1735' w/800 sx

**Treatment**

07/59: 8000 gal acid

**Ran**

25 sks. Cmt bottom of hole

25 sks.cmt plug of stub 2800'

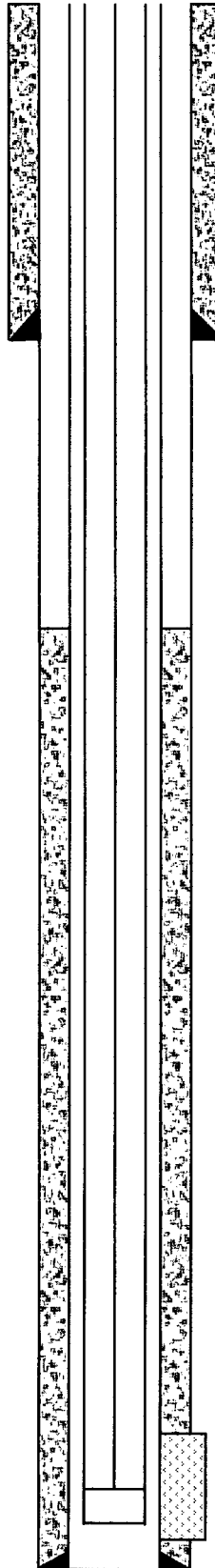
25 sks. Top of salt 1954'

25 sks. Base of 7 5/8" -1735'

10 sks. Top plug

Set marker.

5 1/2" 14 # csg @ 4442' w/200sx



**ARENA RESOURCES, INC.**

**Charles Browning # 1**

**Lea County, NM**

2310'FNL 330' FWL Sec 29, T-18S, R-39E

API NO.:30-025-07942

**TUBING RECORD:**

2 7/8" @ 4454'

**ROD STRING RECORD:**

**PUMP RECORD:**

**PUMPING UNIT:**

PBTD:'

TD 4462'



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

HOBBBS OFFICE O.C.C.  
NEW MEXICO OIL CONSERVATION COMMISSION

MAY 20 9 14 AM '68

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

5a. Indicate Type of Lease	
State <input type="checkbox"/>	Fee <input checked="" 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 DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- <input type="checkbox"/>	7. Unit Agreement Name
2. Name of Operator Martindale Petroleum Corporation	8. Farm or Lease Name June Speight
3. Address of Operator Box 1955 Hobbs, New Mexico 88240	9. Well No. 1
4. Location of Well UNIT LETTER <u>E</u> <u>2310</u> FEET FROM THE <u>North</u> LINE AND <u>330</u> FEET FROM THE <u>West</u> LINE, SECTION <u>29</u> TOWNSHIP <u>18S</u> RANGE <u>39E</u> N.M.P.M.	10. Field and Pool, or Wildcat Hobbs San Andres East
15. Elevation (Show whether DF, RT, GR, etc.)	12. County Lea

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"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input 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"/>
PLUG AND ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
CHANGE PLANS <input type="checkbox"/>	PLUG AND ABANDONMENT <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 1103.

Run 25 sks. cement bottom of hole  
25 sks. cement & plug of stub 2800'  
25 sks. top of salt 1954'  
25 sks. base of 7 5/8" 1735'  
10 sks. top plug  
110 sks. cement.

~~147 lbs. lease crude for fishing.~~

Set marker.

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

SIGNED <u>Jo Johnson</u>	TITLE <u>Secretary-Treasurer</u>	DATE <u>May 16, 1968</u>
APPROVED <u>Leslie M. Clemente</u>	TITLE _____	DATE _____
CONDITION OF APPROVAL, IF ANY:		

Elevation: GL 3594'

ORIGINAL OPERATOR: TEXLAND

SPUDDED: 03/04/1952

IP: 107 BOPD BWPD

ARENA RESOURCES, INC.

BAILEY # 4

Gaines County, Texas

400'FNL 4110' FEL Sec 6, Blk-A-10, PSL survey

API NO.: 42-165-01230

1 1" hole

8-5/8" 29.75# csg @ 1875' w/850sx of cmt

**TREATMENT HISTORY:**

Interval 4440-4459, 1500 gal acid type A

**TUBING RECORD:**

No record

**ROD STRING RECORD:**

**PUMP RECORD:**

**PUMPING UNIT:**

6 3/4" hole

**P&A data**

	Plug # 1	Plug # 2
Cementing date:	3/7/00	3/7/00
Size of pipe	5 1/2"	5 1/2"
Depth to bottom of pipe	2440'	0
Sack of cmt used	20	500
Slurry vol pumped (cu.ft)	26.4	660
Calculated top of plug	2253'	Surface
Slurry wt. #/gal	14.8	14.8
Type of cement	C	C

Perf 4440'-4459'

5 1/2' 15.5# csg @ 4459' w/900 sx cmt

Orig. PBTD:

TD: 4530'

PREPARED BY: HK 01//10/05

Plugging Record

RAILROAD COMMISSION OF TEXAS  
OIL AND GAS DIVISIONFORM W-3  
Rev. 10/78

42-

API NO.  
(if available) 165-01230

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH  
WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

2. FIELD NAME (as per RRC Records) <b>Hobbs, East (4400)</b>		3. Lease Name <b>East Hobbs SWD</b>		1. RRC District <b>8A</b>	
6. OPERATOR <b>Texland-Rector + Schumacher</b>		6a. Original Form W-1 Filed in Name of: <b>Rice Engineering</b>		4. RRC Lease or Id. Number <b>61126</b>	
7. ADDRESS <b>500 Throckmorton St 3100, F. Worth, TX 76107</b>		6b. Any Subsequent W-1's Filed in Name of:		5. Well Number <b>6-D</b>	
8. Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located <b>400 Feet From N. Line and 4110 Feet From East Line of the East Hobbs SWD SWS Lease</b>		9a. SECTION, BLOCK, AND SURVEY <b>Sec. 6, Blk A-10, PSL Survey</b>		10. County <b>Gaines</b>	
16. Type Well (Oil, Gas, Dry) <b>Disp.</b>		17. If Multiple Completion List All Field Names and Oil Lease or Gas ID No.'s <b>4530</b>		11. Date Drilling Permit Issued <b>3/26/64</b>	
18. If Gas, Amt. of Cond. on Hand at time of Plugging		9b. Distance and Direction From Nearest Town in this County		12. Permit Number <b>1 letter</b>	
				13. Date Drilling Commenced <b>4/2/64</b>	
				14. Date Drilling Completed <b>4/16/64</b>	
				15. Date Well Plugged <b>3/7/2000</b>	

CEMENTING TO PLUG AND ABANDON DATA:		PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date		3/7/00	3/7/00						
20. Size of Hole or Pipe in which Plug Placed (inches)		5 1/2	5 1/2						
21. Depth to Bottom of Tubing or Drill Pipe (ft.)		2440	0						
*22. sacks of Cement Used (each plug)		20	500						
*23. Slurry Volume Pumped (cu. ft.)		26.4	660						
*24. Calculated Top of Plug (ft.)		2253	Surface						
25. Measured Top of Plug (if tagged) (ft.)									
*26. Slurry Wt. #/gal.		14.8	14.8						
*27. Type Cement		C	C						

28. CASING AND TUBING RECORD AFTER PLUGGING					29. Was any Non-Drillable Material (Other than Casing) Left in This Well?
SIZE	WT. #/FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5/8	29.75	1875	1875	1 1/2	29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material. (Use Reverse Side of Form if more space is needed.)  <b>Baker Loc - Set packer w/ tubing stub top at 2485'</b>
1/2	15.5	4459	4459	6 3/4	

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS			
FROM	TO	FROM	TO
4459	4530 (OH)		
3261	4530		

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information. Designates items to be completed by Cementing Company. Items not so designated shall be completed by Operator.

John Riley Service Supervisor  
Signature of Cementer or Authorized Representative

RI Services Company  
Name of Cementing Company

## CERTIFICATE:

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Sarah Bennett  
REPRESENTATIVE OF COMPANY

Reg. Tech.  
TITLE

3/27/2000  
DATE

Phone 817 336-251  
A/C NUMBER

SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

31. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission		<input type="checkbox"/> Yes <input type="checkbox"/> No	32. How was Mud Applied?	33. Mud Weight LBS/GAL
34. Total Depth	Other Fresh Water Zones by T.D.W.R. TOP		35. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Depth of Deepest Fresh Water			36. If NO, Explain	
37. Name and Address of Cementing or Service company who mixed and pumped cement plugs in this well				Date RRC District Office notified of plugging
38. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases				
39. Was Notice Given Before Plugging to Each of the Above?				
FILL IN BELOW FOR DRY HOLES ONLY				
40. For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.				
<input type="checkbox"/> Log Attached <input type="checkbox"/> Log released to _____ Date _____				
Type Log:				
<input type="checkbox"/> Driller's <input type="checkbox"/> Electric <input type="checkbox"/> Radioactivity <input type="checkbox"/> Acoustical/Sonic				
41. Date FORM P-8 (Special Clearance) Filled?				
42. Amount of Oil produced prior to Plugging _____ bbls*				
* File FORM P-1 (Oil Production Report) for month this oil was produced				
RRC USE ONLY				
Nearest Field _____				

REMARKS