

BW - 20

**PERMITS,
RENEWALS,
& MODS**

CLOSED

Price, Wayne

From: Price, Wayne
Sent: Wednesday, April 28, 2004 5:27 PM
To: Prichard, Sharon
Subject: April 28.doc file maintenance bw-020.doc

April 28, 2004- File Maintenance by W Price and Sharon Pritchard

Attention: Sharon Pritchard

Please note after several hours of going through the files I have discovered that the Proposed Agua Inc. French Brine well OCD Environment Permit # BW-020 was originally proposed to be a re-enter of the old Repollo Oil Company Grimes # 5 Sec 28-Ts18S-R38E 1980 FNL and 660 FWL (unit letter E). The API number for this well is 30-025-07426.

Please note that Well API 30-025-07424 has recent scanned information in it that pertains to the French Brine Well. I believe this information should not be in this file and be removed. The information I am talking about is a P&A procedure that was submitted as part of their discharge plan. This document first of all is in the wrong file and it makes one beleivel this well was plugged as a brine well which I don't believe.

The complete brine well information may be found in the Environmental Records Permit # BW-025 in Santa Fe. These records have not been scanned but definitely indicate that the proposed well to be re-entered was the Repollo Oil Company Grimes # 5 Sec 28-Ts18S-R38E 1980 FNL and 660 FWL (unit letter E) not the API # 30-025-07424.

This well was also assigned a new API # 30-025-35714 in 2002 or 2003. The reason for the new number was the fact that the New Mexico Environment Department (EID) at one time permitted these types of wells and did not issue API numbers and well files were maintained in their permit system. When OCD regained authority on June 13, 1989 there were no OCD well records for the wells in question.

History: Record review by Wayne Price showed that Agua Inc. made a Discharge Plan proposal to EID to re-entered the Repollo Oil Company Grimes # 5 Sec 28-Ts18S-R38E 1980 FNL and 660 FWL (unit letter E) and complete as a brine well. The Operator then requested an amendment from NMED to drill a new well 250 feet west of this well. The NMED issued an Approved Permit DP-387 on December 13, 1985.

Petro-Thermo Corporation sent (June 18, 1987) OCD a copy of the Discharge Plan for review. On December 06, 1989 OCD sent a letter to Auga informing them of Delegation of Brine wells given to OCD and requesting a bond and notifying Auga OCD will continue the plan renewal process. This is the last correspondence in the file.

The Question arises whether Auga actually ever re-entered or drilled a well in this project. We have no records to indicate they operated any brine well system. Also, I have called Joe Janica Auga's consultant at that time and ask him if he remember if Auga completed the project as a brine well. He indicated to me that he remembers they dropped the project and it was never operated. He is going to check his records to confirm.

Sharon, didn't we have a document to be scanned by Laurence that indicated they dropped their request for a DP. Also, didn't the Hobbs field guys check this location to verify the P&A marker, if not could you have them check it (sec 28-Ts18s-R38e 1980 FNL and 660 FWL) and make sure there is not an old location 250 feet west of there. Take a picture for the file.

Please let me know!



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

December 6, 1989

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. James Thornton
AGUA INCORPORATED
P. O. Box 1978
Hobbs, New Mexico 88241

RE: Delegation of Responsibilities Brine Manufacturing Operations

Dear Mr. Thornton:

On June 13, 1989, the Water Quality Control Commission (WQCC) transferred the responsibility for the administration and enforcement of Commission regulations at brine manufacturing operations, including all brine production wells, holding ponds and tanks, from the Environmental Improvement Division (EID) to the Oil Conservation Division (OCD). The OCD has jurisdiction over all manufactured brine once it is transported, used or disposed of off brine plant premises for use in or directly related to oil and gas operations regulated by OCD. OCD regulates brine injection through its Class II Underground Injection Control (UIC) Program if the brine is used in the drilling for or production of oil and gas. EID shall regulate brine injection through its UIC Program if the brine is used for other purposes.

Brine production facilities that were transferred to OCD's jurisdiction must operate pursuant to an approved and current discharge plan. The discharge plan renewal process will be continued by OCD Environmental Bureau Staff. Approximately eight (8) months before the expiration date of an approved discharge plan, the discharger will be notified of the pending expiration of the plan. The discharge plan review process can, depending on circumstances, take several months. If the holder of an approved discharge plan submits a renewal application at least 180 days before discharge plan expiration, and the discharger is in compliance with his approved plan on the date of expiration, then the existing plan will not expire until the renewal application has been approved or disapproved.

Mr. James Thornton
December 6, 1989
Page -2-

Guidelines to aid you in determining what will be required for the renewal of your discharge plan are being prepared. When the guidelines are finalized, they will be supplied to each operator of a brine production facility.

The OCD requires that any person, firm corporation or association that is in ownership of an oil, gas, or service well in the State of New Mexico shall furnish the Division with a surety bond in an amount prescribed in the OCD regulations. The current bond for well less than 5000 feet deep in Chaves, Eddy, Lea and Roosevelt Counties is \$5000. I am enclosing the OCD bond forms for your use. All surety bonds previously submitted to the OCD did not include brine wells. Those surety bonds submitted to the EID must be changed to the OCD. Once the proper bond forms are received and approved, all other sureties and bonds can be cancelled.

If you have any questions, please do not hesitate to contact me at (505) 827-5884.

Sincerely,



Roger C. Anderson
Environmental Engineer

RCA/sl

Enclosures

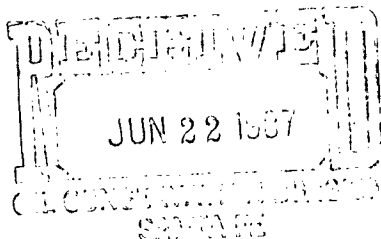
CC: Artesia District Office
Hobbs District Office

PETRO-THERMO CORPORATION

P.O. BOX 2069 PHONES (505) 393-2417 — 397-3557

HOBBS, NEW MEXICO 88241-2069

June 18, 1987



David G. Boyer
Hydrogeologist
State of New Mexico
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501-2088

Dear Mr. Boyer:

I appreciated the opportunity to meet with you June 17 and discuss our firm's business activities. Per your request, I have enclosed a copy of the discharge plan for the French Drive Brine project.

If you have any questions, please direct them to Jim Thornton at the above address.

Sincerely,

PETRO-THERMO CORPORATION

A handwritten signature in cursive script, appearing to read 'Robert W. Abbott'.

Robert W. Abbott
Manager of Operations

RWA/dlb

Enclosure: As stated

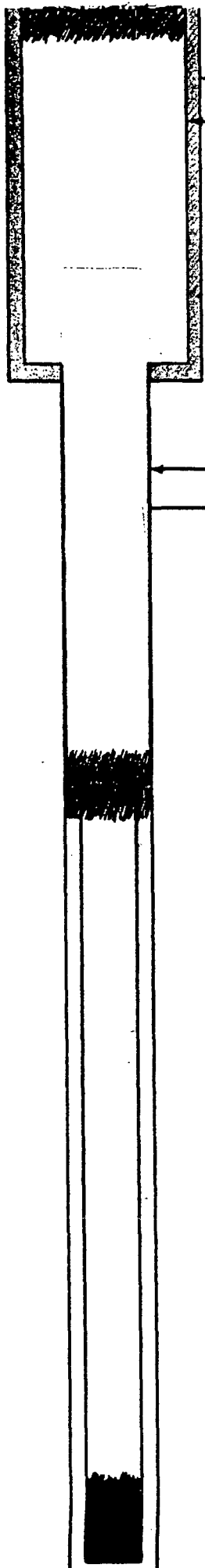


natural
resources
engineering inc.

Discharge Plan For
Agua Inc.
French Drive Brine
S28 T18S R38E
Lea County, NM

WELL BORE SKETCH

OPERATOR/LEASE/WELL Agua/W, D, Grimes/#5
NRE JOB NUMBER AG01-001-001 DATE 1-30-85
FIELD/POOL _____ / _____
PLUG BACK DEPTH 3222 KB _____ ELEVATION 3643 est.



10 Sack plug
at surface

Hole Size 13"

SURFACE CASING:

Size 9-5/8" Weight _____ Grade _____
Set at 441' with 300 Sacks Cement
Circulate Cement Circulated Sacks to Surface _____
Remarks: Tested casing for 30 minutes at 500 psi
Held OK. No record of the number of sacks of cement
circulated to surface

Hole Size 9"

PRODUCTION CASING:

Size 7" Weight _____ Grade _____
Set at 3185 with 600 Sacks Cement
Cement Top: Calculated _____ Temperature Survey _____
Remarks: Tested casing for 30 minutes at 1000 psi
Held OK.

7" Casing
shot off at
1342'
20 sack plug
across casing stub

600 \$7000

TUBING:

Size _____ Weight _____ Grade _____
Number of Joints _____ Set at _____
Packer Set at _____
Bottom Arrangement: _____

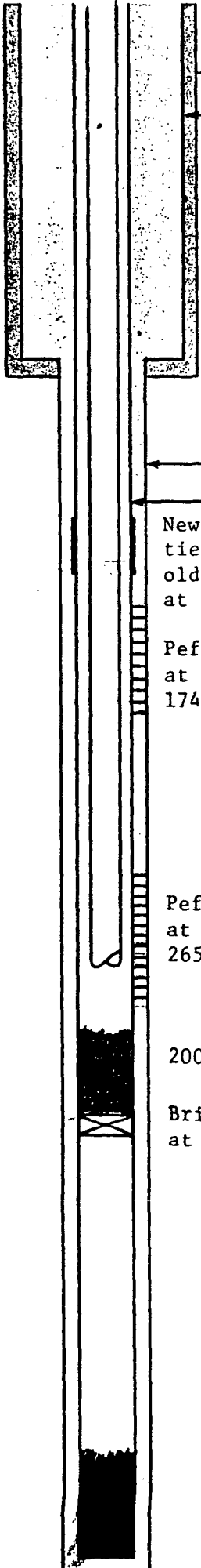
RODS:

Size _____ Number _____
Gas Anchor Set at _____
Pump Set at _____
Arrangement: _____

25 Sack plug
at bottom

WELL BORE SKETCH

OPERATOR/LEASE/WELL Agua / French Drive Brine / #1
 NRE JOB NUMBER AG01-001-001 DATE 2-5-85
 FIELD/POOL _____ / _____
 PLUG BACK DEPTH _____ KB _____ ELEVATION 3643 est.



Hole Size 13"

SURFACE CASING:

Size 9-5/8" Weight _____ Grade _____
 Set at 441' with 300 Sacks Cement
 Circulate Cement Circulated Sacks to Surface
 Remarks: No record of the number of sacks of
cement circulated to surface

Hole Size 9"

PRODUCTION CASING:

Size 7" Weight _____ Grade _____
 Set at 3185' with 350 Sacks Cement
 Cement Top: Calculated _____ Temperature Survey _____
 Remarks: Cement circulated to surface

Peforations
 at top of salt
 1740'

Peforations
 at base of salt
 2650'

200' plug

Bridge plug
 at 2900'

25 Sack plug
 at bottom

TUBING:

Size 4-1/2" Weight _____ Grade _____
 Number of Joints _____ Set at 2650'
 Packer Set at _____
 Bottom Arrangement: _____

RODS:

Size _____ Number _____
 Gas Anchor Set at _____
 Pump Set at _____
 Arrangement: _____

LIST OF ATTACHMENTS

Attachment A	Current Wellbore Sketch
Attachment B	Proposed Wellbore Sketch
Attachment C	Geological Structure Map
Attachment D	Location of Fresh Water Wells
Attachment E	Ownership Plat
Attachment F	Flooding Potential
Attachment G	Water Analysis
Attachment H	Plugging Records
Attachment I	Plugging Procedure
Attachment J	Fracture Gradient Calculations
Attachment K	State Engineer Records
Attachment L	Location of Proposed Brine Well
Attachment M	Plugging Bond

LIST OF DRAWINGS

Drawing AG-01	Structure Map and Cross Section
Drawing AG-02	System Schematic
Drawing AG-03	Facility Plot Plan

I. GENERAL DESCRIPTION

A. Operator:

Agua Inc.
R. W. Abbott
P. O. Box 1978
Hobbs, New Mexico 88240

B. Location:

Located in Section 28, T-18-S, R-38-E
1980' FNL and 660' FWL
Lea County, New Mexico

C. General Operation:

660
250
410

At the brine well fresh water is injected down tubing casing annulus and brine is returned up tubing and sent to the storage facility. Brine is removed from the storage facility by the loading pump and metered as it is loaded onto transports. (See Drawing AG-02, Brine System Schematic).

D. History:

This well was initially drilled in 1947 as an oil well. It was plugged and abandoned in 1950. It is proposed to re-enter this well and convert it to a brine well.

II. DESCRIPTION OF FACILITY

A. Surface Facilities:

The brine well is located NW of Hobbs (See Attachment "M"). Drawing AG-03 is a plot plan of the facility showing the general layout of the site.

The facility will be enclosed by a fence which will prevent small animals and unauthorized personnel from entering the site. The surface facilities are arranged as shown in drawing #2. Brine is carried 250' through 4" pipe to the storage facility. From the storage facility, brine is carried 300' to the loading station. Typically 1650 bbls./day are discharged to and withdrawn from the brine storage facility.

The type of pipe to be used to transport brine from the well to storage to the loading station will be plastic pipe. It will be buried to protect it from damage and subsequent spills which may be caused by truck traffic at the brine station.

B. Underground Facilities:

The proposed brine well was drilled in August 1947 and is currently plugged and abandoned. Attachment A is a diagram of the well as it is now. Attachment B is a well bore sketch of the well as proposed. Agua, Inc. proposes to re-enter the well and clean out the plugs from surface to 2900'. New 7" casing will be run and tied into the old 7" casing. The new casing will be cemented back to surface with 350 sacks of class "C" cement.

A permanent bridge plug will be set at 2900' (200' below base of the salt) and capped with 36 sacks of class "C" cement (200' plug). After the casing is cemented, Agua, Inc. will pressure test the casing to 1000 psi. Agua, Inc. will notify the EID prior to pressure testing the casing. We will also submit a report of the results of the test with a pressure chart of the casing pressures during the testing. The casing across the salt section will then be perforated with 4 shots per foot. Then 4-1/2" plastic coated tubing will be run in the hole to 2650'.

No stimulation program is planned.

Initial injection pressure is anticipated to be 300 psi with a maximum injection pressure of 400 psi. Injection volumes are estimated to be 1650 bbls./day with a maximum of 2500 bbls./day.

Fresh water is to be injected down the casing tubing annulus with brine produced up the tubing. This will prevent exposing the casing to more corrosive brine water and in the event of a leak in the casing, fresh water would be the fluid leaked limiting contamination of ground water. Periodically this injection pattern will be reversed (ie. fresh water down tubing with brine produced up annulus) to remove any salt deposits which have accumulated in the tubing. After these deposits have been removed, the normal injection method will be resumed.

III. SITE CHARACTERISTICS

A. Geology:

The sources of our geological information are:

1. The Roswell Geological Society
2. The U.S. Corps of Engineers
3. Well logs and sample records
4. N.M. Energy & Minerals Department Oil Conservation Division

5. U.S. Minerals Management Service
6. N.M. State Engineers Office

The salt section is bounded on the top by an anhydrite section approximately 118' thick, 1622' to 1740'. The bottom of the salt is bounded by anhydrite from 2710' to 2740' (30' thick). The well is located on the Northeast edge of the "Hobbs High". (See Attachment "C")

Stratigraphic column to the base of the salt in the brine extraction well is:

Caliche and Alluvium	0 - 40'
Ogallala	40 - 260'
Redbeds	260 - 575'
Santa Rosa	575 - 1218'
Dewey Lake	1218 - 1502'
Redbeds	1502 - 1622'
Rustler Anhydrite	1622 - 1740'
Salado Salt	1740 - 2650'
Anhydrite Stringers in Basil Salado	2650 - 2708'

The downhole pressure caused by a 400 psi maximum operating pressure would be 1777 psi. The fracture pressure of salt at 2650' is 2403 psi, this is well above the operating pressure and no fractures should be caused. (See Attachment "J")

B. Hydrology:

The primary water bearing formation is the Ogallala formation of Pliocene age. The Ogallala underlies the entire area of review and has an average thickness of 160'. Drawing AG-01 is a structure map on the base of the Ogallala and a cross section through selected wells. The cross section shows the Ogallala, and the salt section below it where the brine will be produced.

The Ogallala consists mostly of fine to very-fine sand but includes minor quantities of clay, silt, coarse sand and gravel. The movement of ground water through the Ogallala is to the Southeast at a rate of approximately 150 feet per year.

The ground water most likely to be affected by a spill/leak is approximately 65 feet deep. An analysis of this water, from the Kelly Coppedge water well, is contained in Attachment "G". Also contained in Attachment "G" is an analysis of the water used for injection.

There are 16 producing water wells well within the area of review. We have checked with the NM State Engineers Office in Roswell for the location of water wells in this

area. Attachment "D" is a map of the area with water wells located as best as can be from the available records. Also attached are records from the State Engineers Office on these water wells (See Attachment "L"). Attachment "E" is an ownership plat showing all producing oil and gas wells, injection wells, and abandoned oil and gas wells within a 1/4 mile radius of the brine well.

IV. PROCEDURES TO PROTECT GROUND WATER

A. Wells In Area of Review

There are eight (8) abandoned wells or shafts in the area of review which penetrate the injection zone. These wells have been plugged according to OCD requirements. Attachment "H" contains plugging records and completion information on these wells.

Attachment "D" shows the location of water wells within the area of review. Samples of the water produced from selected wells will be analyzed yearly for quality.

The system schematic (Drawing AG-02) shows locations of sample points used to obtain samples at the proposed brine well of water injected and brine produced for analysis.

B. Injection Well:

If there is a loss of mechanical integrity of the injection well, all operations will be suspended until remedial action can be taken to correct the potential source of water contaminations.

A loss of mechanical integrity will be detected by the following:

1. Five year pressure tests.
2. Comparing volumes injected and volumes produced.
3. Any sudden changes in injection pressures.

Prior to the start of operations, the well casing will be tested to 1000 psi. Also at regular intervals, at least every five years, the casing will be retested to 1000 psi to check for possible leaks. Agua, Inc. will pressure test the well as follows:

1. Remove tubing.
2. Set retrievable bridge plug at end of casing.
3. Pressure up on casing to 1000 psi.

4. Record pressures for 15 minutes on pressure recorder.

This procedure will verify that there are no leaks in the casing. Agua, Inc. will notify the EID one day before the test is conducted and submit a report of the test results.

The water injected and brine recovered will be metered by turbine meters located as shown on the system schematic (Drawing AG-02). The volumes injected and recovered will be compared to detect any underground losses.

C. Spills:

Spills will be prevented during loading by connecting trucks directly to the loading line before any valves are opened to allow brine to be pumped onto the trucks. After the trucks are loaded all lines will be cleared of brine and all valves will be closed before disconnecting to prevent spillage of brine water. All trucks will be loaded on a 30' X 45' concrete loading pad. This pad will be constructed such that any brine spilled will flow toward its center where a drain to the sump is located. The sump of the loading pad will be concrete lined. This will prevent any minor spills from contaminating ground water.

As this facility will only be producing brine, it is the main material which may be spilled. Small amounts of hydrocarbon residue inside the trucks could possibly be spilled if a truck is filled to overflowing. This will be prevented by careful monitoring of the trucks during loading. If a truck is overflowed, the brine and any other material spilled would be collected in the sump of the loading pad and later disposed of at an approved disposal well.

In the event of a major spill at the surface facilities the following will be done.

1. If a spill occurs, contaminated soil will be removed and disposed of at a location approved by the state.

A major spill would be any spill which causes brine to get off of the facility site. Agua, Inc. will report any significant spills and/or loss of mechanical integrity of the well to the EID as required in Section 1-203.A.1 and 5-208.B.1 of the WQCC regulations.

D. Plugging & Abandonment:

At such time when this injection well is ready for plugging and abandonment, the well will be plugged as per Attachment "I" (Plugging Procedure). This plugging procedure will

be approved before any plugging operations begin.

A plugging bond is offered as proof of financial responsibility to properly abandon this well. (See Attachment "M")

V. Flooding Potential

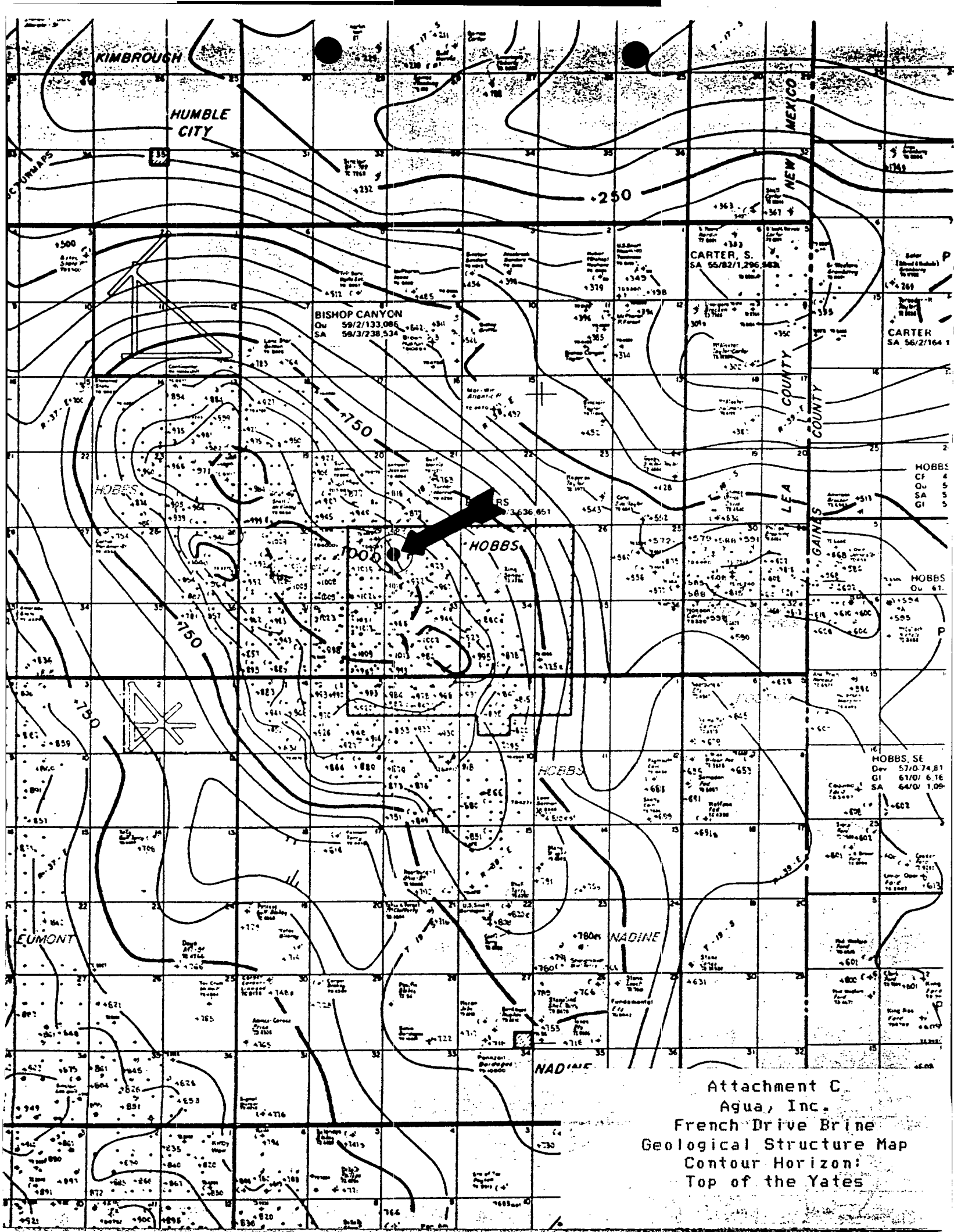
Attachment "F" is a map showing the flooding potential of the site. The location is on a very slight rise trending toward the South and Southeast. Drainage is away from the site to the North and Northeast. Areas to the West, South and Southeast are slightly higher but do fall off into low lying areas. Because of this, areal drainage from the higher areas into the site will be minimal.

VI. SIGN-OFF REQUIREMENT

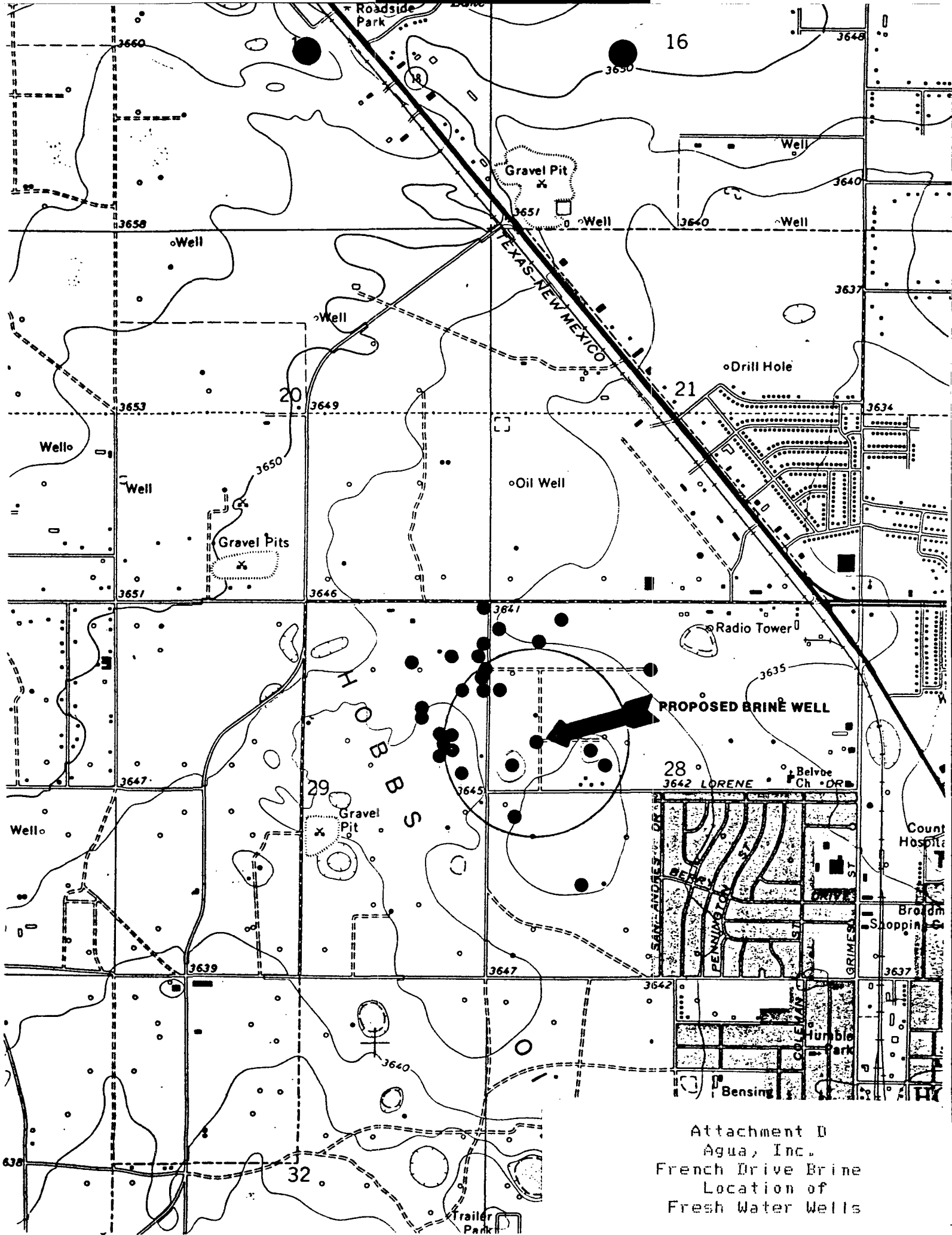
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

R. W. Abbott
R. W. Abbott
Agua, Inc.

5/8/85
DATE



Attachment C.
 Agua, Inc.
 French Drive Brine
 Geological Structure Map
 Contour Horizon:
 Top of the Yates



Attachment D
 Agua, Inc.
 French Drive Brine
 Location of
 Fresh Water Wells

Attachment "G"

Water Analysis
Injected Water
Ground Water

RESULT OF WATER ANALYSES

LABORATORY NO. 285670
 TO: Mr. J. T. Janica SAMPLE RECEIVED 2-27-85
P.O. Box 2188, Hobbs, NM 88240 RESULTS REPORTED 3-7-85

COMPANY Natural Resources Engineering, Inc. - Agua, Inc. - French Drive Brine #1
 FIELD OR POOL 2. NW/4 of NW/4 of NW/4
 SECTION 2-28 BLOCK _____ SURVEY T-18 S COUNTY Lea STATE NM
R-38 E
 SOURCE OF SAMPLE AND DATE TAKEN:

- NO. 1 Raw water - taken from City of Hobbs water supply.
- NO. 2 Raw water - taken from Kelly Coppedge water well.
- NO. 3 _____
- NO. 4 _____

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.				
pH When Sampled				
pH When Received				
Bicarbonate as HCO ₃				
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃				
Calcium as Ca				
Magnesium as Mg				
Sodium and/or Potassium				
Sulfate as SO ₄				
Chloride as Cl	75	51		
Iron as Fe				
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated				
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide				
Resistivity, ohms/m at 77° F.				
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	6.0	5.6		
Total Dissolved Solids, evaporated @ 180°C.	550	458		

MAY 1985
 Natural Resources Engineering, Inc.
 RECEIVED

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks Please feel free to contact us for any details or discussions concerning the above results.

By Waylan C. Martin
 Waylan C. Martin, M. A.

Attachment "H"
Plugging Records of
P&A Wells Within the
Area of Review



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 changes 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.

Repollo Oil Company Tulsa, Oklahoma August 29, 1947
Place Date

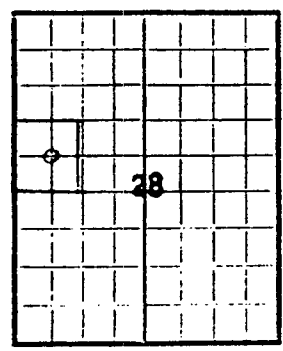
OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico,

Gentlemen:

You are hereby notified that it is our intention to commence the drilling of a well to be known as _____

Repollo Oil Company W. D. Grines Well No. 5 in SE NE
Company or Operator Lease

of Sec. 28, T 18S, R 30E, N. M., P. M., Hobbs Field, Lea County.



AREA 640 ACRES
LOCATE WELL CORRECTLY

The well is 660 feet (N.) 660 of the South line and 660 feet (E.) 660 of the West line of SE NE 1/4

(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 See list attached

Address _____

If government land the permittee is _____

Address _____

The lessee is Repollo Oil Company

Address P.O. Box 521 - Tulsa, Oklahoma

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

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: _____

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
	<u>5/8</u>			<u>425'</u>	<u>Cemented</u>	<u>200 sacks</u>
	<u>7"</u>			<u>3175'</u>	<u>"</u>	<u>600 "</u>

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 3250' feet.

Additional information:

Approved SEP 2 1947 19____
except as follows: to be cemented back to top of salt sections on 7" or oil string

OIL CONSERVATION COMMISSION,
By Ray Yarbrough
Title OIL & GAS INSPECTOR

Sincerely yours,
Repollo Oil Company
Company or Operator
By Dana H. Kelsey
Position Vice-President
Send communications regarding well to
Name REPOLLO OIL COMPANY
Address P.O. Box 521 - Tulsa, Oklahoma

TRIPPLICATE

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

RECEIVED
OCT 21 1947
HOBB'S OFFICE

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS	<input checked="" type="checkbox"/>	REPORT ON REPAIRING WELL	<input type="checkbox"/>
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL	<input type="checkbox"/>	REPORT ON PULLING OR OTHERWISE ALTERING CASING	<input type="checkbox"/>
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	<input type="checkbox"/>	REPORT ON DEEPENING WELL	<input type="checkbox"/>
REPORT ON RESULT OF PLUGGING OF WELL	<input type="checkbox"/>		<input type="checkbox"/>

October 13th, 1947

Hobbs, New Mexico

Date

Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the _____

Repollo Oil Company W. D. Grines Well No. 5 in the _____
Company or Operator Lease

NW of Sec. 28, T. 18S, R. 38E, N. M. P. M.,

Bowers Field, Lea County.

The dates of this work were as follows: 10/13/47

Notice of intention to do the work was (~~was not~~) submitted on Form C-102 on _____ 19____

and approval of the proposed plan was (~~was not~~) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

COMMENCED DRILLING 6:00 ~~AM~~PM OCTOBER 13th.

Witnessed by Mr. J. D. Hendrick Clay & Gackle Driller
Name Company Title

Subscribed and sworn before me this 13th

I hereby swear or affirm that the information given above is true and correct.

13 day of Oct., 19 47

Name W. B. P. [Signature]

[Signature]
Notary Public

Position Dist. Supt.

Representing Repolla Oil Co.
Company or Operator

My commission expires 2-4-50

Address Hobbs, E. Mex.

Remarks:

APPROVED

Date OCT 21 1947

[Signature]
OIL & GAS INSPECTOR
Name
Title

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

RECEIVED
OCT 21 1947
HOBBS OFFICE

DUPLICATE

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	XX	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

Oct. 16, 1947

Hobbs, New Mexico

Date

Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the _____

Repollo Oil Company

W.D. Grines

Well No. 5

in the _____

Company or Operator

Lease

N/W

of Sec. 28

T. 183

R. 383

N. M. P. M.,

Howers

Field,

Lea

County.

The dates of this work were as follows: 10/14/47

Notice of intention to do the work was (~~was not~~) submitted on Form C-102 on 10/14/47 19

and approval of the proposed plan was (~~was not~~) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Tested 9 5/8"OD Casing set @ 441 Ft. w/ 500# Pump Pressure for 30 Min. Tested OK,
@ 3:00 AM Oct. 16th.

Witnessed by Mr. Lee Durham

Clay & Gackle

Driller

Name

Company

Title

Subscribed and sworn before me this 16th

I hereby swear or affirm that the information given above is true and correct.

day of Oct. 19 47

Name W.D. Grines

Position Dist. Supt.

Notary Public

Representing Repollo Oil Co.
Company or Operator

My commission expires 2-4-50

Address Hobbs, N. Mex.

Remarks:

APPROVED

OCT 21 1947

Roy Garbunough

OIL & GAS INSPECTOR

W.D. Grines
Name

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

MISCELLANEOUS NOTICES

RECEIVED
OCT 15 1947

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	<input checked="" type="checkbox"/>	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	<input type="checkbox"/>
NOTICE OF INTENTION TO CHANGE PLANS	<input type="checkbox"/>	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	<input type="checkbox"/>
NOTICE OF INTENTION TO REPAIR WELL	<input type="checkbox"/>	NOTICE OF INTENTION TO PLUG WELL	<input type="checkbox"/>
NOTICE OF INTENTION TO DEEPEN WELL	<input type="checkbox"/>		<input type="checkbox"/>

Hobbs, New Mexico,
Place

Oct. 15th, 1947
Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the _____
Repollo Oil Company W. D. Grimes Well No. 5 in MM
 Company or Operator Lease
 of Sec. 28, T. 18S, R. 38E, N. M. P. M., Bowers Field
Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

To set \pm 437 Ft. of 9 5/8" OD Casing @ 441 Ft. and cement w/ 300 Sks. Common Cement by Halliburton @ 9:00 PM 14th. WOC

Will Drill Plug & Test in 36 hours.

Approved _____, 19____
 except as follows: OCT 15 1947

Repollo Oil Company
 Company or Operator

By W. B. Rheas

Position Dist. Supt.
 Send communications regarding well to

Name W. B. Rheas

Address Hobbs, N.M.

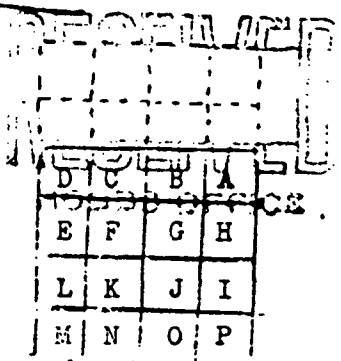
OIL CONSERVATION COMMISSION,

By Henry York
 Title OIL & GAS INSPECTOR

copy. pro. office
oil. oil. oil.
230. CSR
oil. line

10 (Pet & Nat) Schedule

Place Hobbs New Mexico
Date 10-30-47



Glenn Staley
Proration Office
Hobbs, New Mexico.

Designate UNIT well is located in
XX *I*

NOTICE OF COMPLETION OF: (Lease) GRIMES, J. d. Well No. Five
660 feet from South line: 660 feet from East line;
Section 23 Township 13 Range 33.

DATE STARTED 10-13-47
DATE COMPLETED 10-30-47
ELEVATION 3653
TOTAL DEPTH S.L. 3231
CABLE TOOLS _____ ROTARY TOOLS Y

CASING RECORD

SIZE	<u>9 5/8"</u>	DEPTH	<u>437</u>	SAX CEMENT	<u>300</u>
SIZE	<u>7"</u>	DEPTH	<u>3183</u>	SAX CEMENT	<u>600</u>
SIZE	_____	DEPTH	_____	SAX CEMENT	_____

TUBING RECORD

SIZE 2" OE DEPTH 3220

ACID RECORD
NO. GALS _____ None
NO. GALS _____
NO. GALS _____

SHOT RECORD
NO. QTS. _____ None
NO. QTS. _____
NO. QTS. _____

FORMATION TOPS

Anhydrite 1620
Top Salt 1730
Base Salt _____
Red Sand _____
Brown Lime 2350
White Lime _____
Oil or Gas Pay 3222
Water _____

Initial Production Test 60 Bbl. in 24 Pumping Flowing Y
Test After Acid or Shot _____

Initial GAS VOLUME _____

SCHEDULE NO. _____ DATE Nov. 1, 1947

PIPE LINE TAKING OIL Atlantic Pipe Line Co.

REMARKS _____ COMPANY Repollo-Oil Company

SIGNED BY: [Signature]

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

RECORDED
INDEXED

MISCELLANEOUS NOTICES

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified begins. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	<input checked="" type="checkbox"/>	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	<input type="checkbox"/>
NOTICE OF INTENTION TO CHANGE PLANS	<input type="checkbox"/>	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	<input type="checkbox"/>
NOTICE OF INTENTION TO REPAIR WELL	<input type="checkbox"/>	NOTICE OF INTENTION TO PLUG WELL	<input type="checkbox"/>
NOTICE OF INTENTION TO DEEPEN WELL	<input type="checkbox"/>		<input type="checkbox"/>

Hobbs New Mexico Oct, 22, 1947

Place

Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is the nature of the work to be done at the _____ 5 _____ N.M.

Company or Operator 185 385 Well No. 3091 S in _____

of Sec. Lea, T. _____, R. _____, N. M. P. M., _____ Field

County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

to set 3185' of 7" OD 23# casing - 3185 ft below surface and cement with 600 sacks Toro Com, Cement by Galiburton 11-24-47.

will test plug in 36 hours.

Approved _____, 19_____
except as follows: DEC 12 1947

Repollo Oil Company

By _____
Company or Operator
Dist. Supt.

Position _____
Send communications regarding well to

Name _____ Hobbs New Mexico

Address _____

OIL CONSERVATION COMMISSION,
By _____
Title _____

DUPLICATE

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

RECEIVED
DEC 12 1947
HOBBBS OFFICE

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	xx	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

October, 26, 1947

Hobbs New Mexico

Date

Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the _____

Repolla Oil Company d. J. Grimes # 5 Well No. 5 in the _____

Company or Operator Lease

NW of Sec. 28, T. 18S, R. 38E, N. M. P. M.,

Bowers Field, Lea County.

The dates of this work were as follows: 10-23-47 and 10-24-47

Notice of intention to do the work was (~~was not~~) submitted on Form C-102 on Oct, 22, 19 47

and approval of the proposed plan was (was not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED .

Tested 7" OD Casing set at 3185' below surface with 1200# pump pressure for 30 minutes. Tested OK, 10- 26-47.

Witnessed by Lee Durham Clay & Gackle Driller
Name Company Title

Subscribed and sworn before me this 26 th

day of October, 19 47

[Signature]
Notary Public

I hereby swear or affirm that the information given above is true and correct.

Name [Signature]

Position Dist. Supt

Representing Repolla Oil Company
Company or Operator

Address Hobbs New Mexico

My commission expires 2- 4 - 50

Remarks: APPROVED

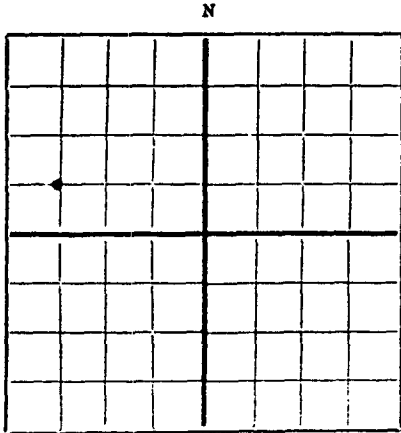
Date: DEC 12 1947

[Signature]
Name
OIL & GAS INSPECTOR
Title

TRIPPLICATE
FORM C-105

RECEIVED
OCT 17 1947
NEW MEXICO OIL CONSERVATION COMMISSION

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico



AREA 640 ACRES
LOCATE WELL CORRECTLY

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 (?). SUBMIT IN TRIPPLICATE. FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-105 IS PROPERLY FILLED OUT.

Repollo Oil Company
Company or Operator

Hobbs New Mexico
Address

J. D. Grimes Well No. 5 in NW/4 of Sec. 28 T. 18S

R. 385 N. M. P. M. Bowers Field, Lea County.

Well is 1980 feet south of the North line and 1980 feet west of the East line of NW/4

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

If patented land the owner is J. D. Grimes Address

If Government land the permittee is Address

The Lessee is Address

Drilling commenced 6.00 PM Oct, 13 1947 Drilling was completed Nov, 5, 1947

Name of drilling contractor Clay & Gackle Address Hobbs New Mexico

Elevation above sea level at top of casing 3853 feet.

The information given is to be kept confidential until 11-5, 1947

OIL SANDS OR ZONES

No. 1, from 3212 to 3222 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 None to feet.

No. 2, from to feet.

No. 3, from to feet.

No. 4, from to feet.

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED	PURPOSE
------	-----------------	------------------	------	--------	--------------	-------------------	------------	---------

2" UE 47 R 2 ASRT

3200

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHODS USED	MUD GRAVITY	AMOUNT OF MUD USED
13"	9-5/8	441	300	Haliburton		
9"	7"	3185	600	do		

PLUGS AND ADAPTERS

Heaving plug—Material..... Length..... Depth Set.....
 Adapters — Material..... Size.....

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT
6'x4"	1	Nitro	30 qts	11-2	3220-3212	3222

Results of shooting or chemical treatment. Increased production from 3 to 10 bbls

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 3222 feet, and from feet to feet
 Cable tools were used from feet to feet, and from feet to feet

PRODUCTION

Put to producing 11-1-1947, 19.....
 The production of the first 24 hours was 60 bbls barrels of fluid of which 96% was oil; 0.1% emulsion; % water; and % sediment. Gravity, Be. 39.48°
 If gas well, cu. ft. per 24 hours..... Gallons gasoline per 1,000 cu. ft. of gas.....
 Rock pressure, lbs. per sq. in.....

EMPLOYEES

C. B. Riggs..... Driller Bill Clark..... Driller
 Lee Durham..... Driller A. M. Pierce..... 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 so far as can be determined from available records.

Subscribed and sworn to before me this.....
 day of 9th December, 1947
[Signature]
 Notary Public

Hobbs New Mexico 12-9-47
 Name *[Signature]*
 Position Dist. Supt
 Representing Repelle Oil Company
 Address Hobbs New Mexico

My Commission expires 2-4-50

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	25	25	caliche
25	177	87	caliche & sand
177	451	274	caliche
451	1400	1009	caliche
1400	1575	115	red sandstone shale
1575	1655	80	argillite
1655	1730	75	argillite & shale
1730	1990	260	silt & shale shells
1990	2030	40	silt & argillite
2030	2110	80	argillite & silt
2110	2180	70	argillite
2180	2270	90	do & syp
2270	2320	50	argillite
2320	2370	50	do & syp
2370	2461	91	do
2461	2521	60	argillite
2521	2614	93	do
2614	2623	9	red sand

deviation east,
 1130-7/8" - 1467-1/4" - 1730-3/4"
 1887-1" - 2110-3/4" - 2675-1/8"
 2878-3/4" - 3110-3/4"
 got with ... to from 3215 to 3230;
 and cleaned out to bottom, 3230"

 hole cleaned out to bottom
 and put on pump 11-9-67

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

MISCELLANEOUS NOTICES

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Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF		NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO DEEPEN WELL			

Hobbs, New Mexico, Aug. 4, 1950
Place Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the _____

Sinclair Oil & Gas Co., W. D. Grimes Well No. 5 in NW/4
Company or Operator Lease
of Sec. 28, T. 16S, R. 38E, N. M. P. M., Bowers Field.
Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

TD 3222 Ft.

7"OD Casing @ 3185 Ft.

Present Production 1/4 barrel oil per day - pumping

Fill hole with heavy mud and cement bottom of hole up into bottom of 7"OD Casing

Shoot off 7"OD Casing and spot 10 Skts. Cement plug in top of shot off 7" Casing if it is below the bottom of surface pipe set @ 440 Ft. Keeping hole full heavy mud.

Set cement plug in top of 5/8" OD (surface) Casing and in bottom of cellar with 4" pipe cemented in to extend 4' above the surface level as "Regulation marker".

AUG 7 1950

Approved _____, 19____
except as follows:

Sinclair Oil & Gas Company
Company or Operator

By _____

Position Dist. Supt.
Send Communications regarding well to

Name W. B. Rhoads

Address Hobbs, N. Mex.

OIL CONSERVATION COMMISSION

By [Signature]

Title OIL & GAS INSPECTOR

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

RECEIVED
AUG 25 1950

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON DEEPENING WELL.	
REPORT ON RESULT OF PLUGGING OF WELL	XX		

August 24, 1950

Hobbs, New Mexico

Date

Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the _____

Sinclair Oil & Gas Company W. D. Prines Well No. 5 in the _____

Company or Operator Lease

33/4 of Sec. 28, T. 13S, R. 33E, N. M. P. M.,

Lea Field, Lea County.

The dates of this work were as follows: Aug. 14th to 20th, 1950

Notice of intention to do the work was (~~was~~) submitted on Form C-102 on 8/4/50 19__

and approval of the proposed plan was (~~was~~) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

TD 3222 Ft. - 7"OD Casing set @ 3185 Ft. ^{cemented w/ 600 jks.} - 9 5/8"OD Casing @ 441 Ft. cement circulated
Filled hole with heavy mud and cemented bottom of hole thru 2" Tubing with 25 Sacks.

Shot off 7"OD Casing @ 1342 Ft. and pulled, filled hole with heavy mud and cemented @ 1342 Ft. with 20 Jacks thru 2" Tubing.

Filled hole with heavy mud to bottom of cellar- Set 4" piece of pipe 4' above surface level in top of 9 5/8"OD Casing and cemented with 10 Jacks, as "REGULATION MARKER". Pull plug in top of marker. Cellar filled level with surface. Job completed.

Witnessed by Mr. E. N. Wilburn Lea County Casing Pullers Machine Operator
Name Company Title

Subscribed and sworn before me this 24th

I hereby swear or affirm that the information given above is true and correct.

day of August 19 50

Name W. D. Prines

[Signature]
Notary Public

Position Dist. Supt.

Representing Sinclair Oil & Gas Co.
Company or Operator

My commission expires 2-4-54

Address Box 1427, Hobbs, N.M.

Remarks:

APPROVED

Date Aug 25 1950

[Signature]
Name
[Signature]
Title

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

ORIGINAL

MISCELLANEOUS REPORTS ON WELLS

RECEIVED
AUG 29 1947
HOBBS OFFICE

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REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	X	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

August 25, 1947

Hobbs, New Mexico

Date

Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the _____

Shell Oil Company, Incorporated W. D. Grimes Well No. 8 in the
Company or Operator Lease

SW/4 of Sec. 28, T. 18-S, R. 38-E, N. M. P. M.,
Bowers Field, Lea County.

The dates of this work were as follows: 8-24-47

Notice of intention to do the work was (~~was not~~) submitted on Form C-102 on 8-25-47 19____

and approval of the proposed plan was (was not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Tested 8 5/8-inch casing with 1000 p.s.i. water pressure for 30 minutes. Held OK.

Drilled plug. Tested cement job with 600 p.s.i. for 30 minutes. Held OK.

Witnessed by George Goodpasture Shell Oil Company, Incorporated Prod. Foreman
Name Company Title

Subscribed and sworn before me this 25th

I hereby swear or affirm that the information given above is true and correct.

11 day of August, 1947

Name M. C. Brunner

Gene R. Tamm
Notary Public

Position District Superintendent

Representing Shell Oil Company, Incorporated
Company or Operator

(My commission expires _____ My Commission Expires Sept. 16, 1950)

Address Box 1457 Hobbs, New Mexico

Remarks:

APPROVED
AUG 29 1947

Date _____

Ray Yarbro
Name
Oil & Gas Inspector
Title

Title

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

DUPLICATE

MISCELLANEOUS NOTICES

AUG 29 1947

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before work begins. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	<input checked="" type="checkbox"/>	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	<input type="checkbox"/>
NOTICE OF INTENTION TO CHANGE PLANS	<input type="checkbox"/>	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	<input type="checkbox"/>
NOTICE OF INTENTION TO REPAIR WELL	<input type="checkbox"/>	NOTICE OF INTENTION TO PLUG WELL	<input type="checkbox"/>
NOTICE OF INTENTION TO DEEPEN WELL	<input type="checkbox"/>		<input type="checkbox"/>

Robbs, New Mexico

August 25, 1947

Place

Date

OIL CONSERVATION COMMISSION, Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the

Shell Oil Company, Incorporated, W. D. Grimes, Well No. 8 in SW/4 of Sec. 28, T. 18-S, R. 38-E, N. M. P. M., Dozari Field, Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

Run 8 5/8-inch casing to 415 feet and circulated with 200 sacks cement.

Job complete 1:15 P.M. 8-23-47. Will test casing shut-off at 1:15 P.M. 8-24-47.

Approved _____, 19____ except as follows: AUG 29 1947

OIL CONSERVATION COMMISSION, By Roy Gardner, Oil & Gas Inspector

Shell Oil Company, Incorporated, Company of Operator, By M. G. Brunner, District Superintendent, Name Shell Oil Company, Incorporated, Address Box 1457 Robbs, New Mexico



THE REPRODUCTION OF

THE

FOLLOWING

DOCUMENT (S)

CANNOT BE IMPROVED

DUE TO

THE CONDITION OF

THE ORIGINAL

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

RECEIVED SEP 2 1947 HOBBS OFFICE

DUPLICATE

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Indicate nature of report by checking below.

Table with 4 rows and 2 columns for reporting categories: REPORT ON BEGINNING DRILLING OPERATIONS, REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL, REPORT ON RESULT OF TEST OF CASING SHUT-OFF, REPORT ON RESULT OF PLUGGING OF WELL, REPORT ON REPAIRING WELL, REPORT ON PULLING OR OTHERWISE ALTERING CASING, REPORT ON DEEPENING WELL.

August 25, 1947

Hobbs, New Mexico

Date

Place

OIL CONSERVATION COMMISSION, SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the

Shell Oil Company, Incorporated M. D. Grimes Well No. 8 in the Company or Operator Lease

SW/4 of Sec. 28, T. 18-S, R. 36-E, N. M. P. M.,

Bowers Field, Lea County.

The dates of this work were as follows: 8-23-47

Notice of intention to do the work was (was not) submitted on Form C-102 on 8-18 1947

and approval of the proposed plan was (was not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Spudded 1:30 A.M. 8-23-47.

Witnessed by George Goodpasture Shell Oil Company, Incorporated Prod. Foreman Name Company Title

Subscribed and sworn before me this 25th

I hereby swear or affirm that the information given above is true and correct.

day of August, 1947

Name M. C. Brunner

Signature of Notary Public

Position District Superintendent

Representing Shell Oil Company, Incorporated Company or Operator

My Commission Expires Sept. 16, 1950

My commission expires

Address Box 1457 Hobbs, New Mexico

Remarks:

APPROVED

Date SEP 2 1947

Signature of Oil & Gas Inspector Title

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

DUPLICATE

MISCELLANEOUS NOTICES

RECEIVED
SEP. 8 1947
HOBBS OFFICE

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	<input checked="" type="checkbox"/>	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	<input type="checkbox"/>
NOTICE OF INTENTION TO CHANGE PLANS	<input type="checkbox"/>	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	<input type="checkbox"/>
NOTICE OF INTENTION TO REPAIR WELL	<input type="checkbox"/>	NOTICE OF INTENTION TO PLUG WELL	<input type="checkbox"/>
NOTICE OF INTENTION TO DEEPEN WELL	<input type="checkbox"/>		<input type="checkbox"/>

Hobbs, New Mexico August 29, 1947
Place Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the _____
Shell Oil Company, Incorporated V. D. Grimes Well No. 8 in W/4
Company or Operator Lease
of Sec. 28, T. 18-S, R. 38-E, N. M. P. M., Boyers Field
Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK
FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

Ran 4 1/2-inch casing to 3180 feet and cemented with 850 sacks common cement.
Plug down at 5:20 P.M. 8-29-47. Will test casing shut-off at 5:20 P.M. 8-30-47.

Approved _____ 19____
except as follows: SEP 8 1947

Shell Oil Company, Incorporated
Company or Operator
By M. G. Brunner
Position District Superintendent
Send communications regarding well to
Name Shell Oil Company, Incorporated
Address Box 1457
Hobbs, New Mexico

OIL CONSERVATION COMMISSION,
By Roy Yunkerlyk
Title Oil & Gas Inspector

7-11-1942

100

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
<p>No samples taken above 3180 feet. Sample examination taken from Grines No. 3 (twin well located in same 40 acre unit indicates following tops.)</p>			
Top of Red Beds		246	
Top of Anhydrite		1585	
Top of Salt		1785	
Base of Salt		2678	
Top of Brown Line		2890	
<p>Sample examination from Grines No. 8:</p>			
3180	3215	35	Anhydrite.
3215	3221	6	Bowers Sand (Show 812)
3221	3230	9	Anhydrite.

FORMATION RECORD

DEPTH	FORMATION	THICKNESS	REMARKS
3180	Anhydrite	35	
3215	Bowers Sand (Show 812)	6	
3221	Anhydrite	9	

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth Set _____
 Adapters—Material _____ Size _____

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL BRAND	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT

Results of shooting or chemical treatment _____

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 3230 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

PRODUCTION

Put to producing Sept. 3, 1947
 The production of the first 24 hours was 163 barrels of fluid of which 99 8/10 % was oil; 0 % emulsion; 2/10 % water; and 0 % sediment. Gravity, Be 41.5° A.P.I. corrected
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____ **G.O.R. = 275**

EMPLOYEES

H. T. Green Driller S. R. Young Driller
J. A. Arnold Driller A. G. Glesinger 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 so far as can be determined from available records.

Subscribed and _____ to before me this 3rd _____
 _____ 1947
R. Davis
 Notary Public
 My Commission Expires Sept. 14 1950

Hobbs, New Mexico Sept. 3, 1947
 Name M. C. Brunner
 Position District Superintendent
 Representing Shell Oil Company, Incorporated
 Address Box 1457 Hobbs, New Mexico.

Place Hobbs, New Mexico
Date September 3, 1947

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

Glenn Staley
Proration Office
Hobbs, New Mexico.

Designate UNIT well is located in
K

NOTICE OF COMPLETION OF: (Lease) W. D. Grimes Well No. 8
1980 feet from South line: 1980 feet from West line; S.T. & R
28, 18-a, 36-a

DATE STARTED August 23, 1947
DATE COMPLETED September 3, 1947
ELEVATION 2650 B.F.
TOTAL DEPTH S.L.R. 3270
CABLE TOOLS _____ ROTARY TOOLS X

CASING RECORD

SIZE <u>8 5/8"</u>	DEPTH <u>415'</u>	SAX CEMENT <u>200</u>
SIZE <u>4 1/2"</u>	DEPTH <u>1180'</u>	SAX CEMENT <u>850</u>
SIZE _____	DEPTH _____	SAX CEMENT _____

TUBING RECORD

SIZE 2 3/8" DEPTH 3227

ACID RECORD

NO. GALS _____	NO. BBS. _____
NO. GALS _____	NO. BBS. _____
NO. GALS _____	NO. BBS. _____

FORMATION TOPS

Anhydrite 1585
Top Salt 1785
Base Salt 2678
Red Sand _____
Brown Lime 2800
White Lime _____
Oil or Gas Pay 3215
Water _____

Initial Production Test 149 20/21.5 hrs. Pumping _____ Flowing X
Test After Acid or Shot _____

Initial GAS VOLUME 46 MCF (G.O.P. 295)

SCHEDULE NO. _____ DATE _____

PIPE LINE TAKING OIL Shell Pipe Line Corporation

REMARKS _____ COMPANY Shell Oil Company, Incorporated
SIGNED BY: N. C. Bruner
District Superintendent

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

RECEIVED
SEP 30 1953
OIL CONSERVATION COMMISSION
HOBBS, NEW MEXICO

MISCELLANEOUS NOTICES

Submit this notice in TRIPPLICATE to the District Office, Oil Conservation Commission, before the work specified is to begin. It will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Notice by Checking Below

NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO TEMPORARILY ABANDON WELL		NOTICE OF INTENTION TO DRILL DEEPER	
NOTICE OF INTENTION TO PLUG WELL	X	NOTICE OF INTENTION TO PLUG BACK		NOTICE OF INTENTION TO SET LINER	
NOTICE OF INTENTION TO SQUEEZE		NOTICE OF INTENTION TO ACIDIZE		NOTICE OF INTENTION TO SHOOT (Nitro)	
NOTICE OF INTENTION TO GUN PERFORATE		NOTICE OF INTENTION (OTHER)		NOTICE OF INTENTION (OTHER)	

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Hobbs, New Mexico
(Place)

September 28, 1953
(Date)

Gentlemen:

Following is a Notice of Intention to do certain work as described below at the.....

Shell Oil Company Grimes Well No. 8 in "K"
(Company or Operator) (Unit)
NW 1/4 SW 1/4 of Sec. 28, T. 18-S, R. 38-E, NMPM., Bowers Pool
(40-acre Subdivision) Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK
(FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS)

We propose to Plug and Abandon Grimes No. 8 as follows:

- (1) Load hole with mud
- (2) Spot cement plug in 4-1/2" casing shoe at approximately 3180'
- (3) Shoot off 4-1/2" casing above freeze point and pull recoverable casing
- (4) Spot cement plug across 8-5/8" casing shoe at approximately 415'
- (5) Set cement surface plug and erect 4" marker as required by Rule 202

Approved _____, 19____
Except as follows:

Approved _____
OIL CONSERVATION COMMISSION
By A. J. Stanley
Engineer District 1

Shell Oil Company
Company or Operator
By F. D. Leigh Original signed by F. D. Leigh
Position Division Mechanical Engineer
Send Communications regarding well to:
Name Shell Oil Company
Address Box 1957, Hobbs, New Mexico

RECEIVED

Form C-103
Revised 7/1/52

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION OCT 6 1953
Santa Fe, New Mexico

OIL CONSERVATION COMMISSION
HOBBS OFFICE

MISCELLANEOUS REPORTS ON WELLS

Submit this report in TRIPLICATE to the District Office, Oil Conservation Commission, within 10 days after the work specified is completed. It should be signed and filed as a report on Beginning Drilling Operations, Results of test of casing shut-off, result of plugging of well, result of well repair, and other important operations, even though the work was witnessed by an agent of the Commission. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Report by Checking Below

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF PLUGGING WELL	X	REPORT ON RECOMPLETION OPERATION		REPORT ON (Other)	

October 5, 1953
(Date)

Hobbs, New Mexico
(Place)

Following is a report on the work done and the results obtained under the heading noted above at the

Shell Oil Company
(Company or Operator)

Grimes
(Lease)

Hobbs Pipe & Supply
(Contractor)

Well No. 8 in the NW 1/4 SW 1/4 of Sec. 28

T12-S, R. 36-E, NMPM, Rowers Pool, Lea County.

The Dates of this work were as follows: September 30 thru October 3, 1953

Notice of intention to do the work (was) ~~report~~ submitted on Form C-102 on September 28, 1953.
(Cross out incorrect words)

and approval of the proposed plan (was) ~~report~~ obtained.

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Plugged and abandoned Grimes No. 8 as following:

- (1) Loaded hole with mud
- (2) Spotted 6 sacks cement plug in 4-1/2" casing at 3180'. Fill up to 3120'.
- (3) Shot and pulled 1060' of 4-1/2" casing
- (4) Spotted 60' cement plug from 1260' to 1320' in 4-1/2" casing
- (5) Spotted 5 sack cement plug at 430'
- (6) Spotted 3 sack cement plug at surface in top of 8-5/8" casing and erected 4" marker as required by Rule 202. Well PLUGGED & ABANDONED 10-3-53.

Witnessed by H. B. Brooks
(Name)

Shell Oil Company
(Company)

Production Foreman
(Title)

Approved: *[Signature]*
OIL CONSERVATION COMMISSION
Oil & Gas Inspector

JAN 29 1954

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

Original signed by Name: F. D. Leigh
Position: Division Mechanical Engineer
Representing: Shell Oil Company
Address: Box 1957, Hobbs, New Mexico

G Sinclair
Form C-101
with H F

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

RECEIVED
OCT 9 1947
OIL CONSERVATION COMMISSION

DUPLICATE
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 side page for instructions in Rules and Regulations of the Commission.

Tulsa, Oklahoma
Place

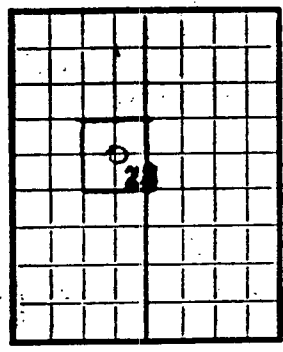
October 7, 1947
Date

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 _____
Repelle Oil Company W. D. Grimes Well No. 6 in SE NW

Company or Operator Lease
of Sec. 28, T 18-S, R 38-E, N. M., P. M., Hobbs Field, Lea County.



AREA 640 ACRES

LOCATE WELL CORRECTLY

The well is 660 feet (N.) ~~xxx~~ of the South line and 660 feet ~~xxx~~ (W.) of the East line of SE NW

(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 See List Attached

Address _____

The lessee is Repelle Oil Company

Address P.O. Box 521 - Tulsa 2, Oklahoma

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

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: _____

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	Soaks Cement
<u>12-1/2</u>	<u>9-5/8</u>	<u>40</u>	<u>New</u>	<u>125'</u>	<u>Cemented</u>	<u>200</u>
<u>8-3/4</u>	<u>7</u>	<u>23</u>	<u>"</u>	<u>3225'</u>	<u>"</u>	<u>600</u>

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 1350 feet.

Additional information:

Approved OCT 9 1947, 19____
except as follows:

Sincerely yours,

REPELLE OIL COMPANY

By [Signature]
Position _____
Doug H. Kelsey
Vice-President

Send communications regarding well to
Doug H. Kelsey
Name
Address P.O. Box 521 - Tulsa, 2, Oklahoma

OIL CONSERVATION COMMISSION
By [Signature]
Title OIL & GAS INSPECTOR

DUPLICATE

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

RECEIVED
DEC 12 1947

HOBBS OFFICE

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS	<input checked="" type="checkbox"/>	REPORT ON REPAIRING WELL	<input type="checkbox"/>
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL	<input type="checkbox"/>	REPORT ON PULLING OR OTHERWISE ALTERING CASING	<input type="checkbox"/>
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	<input type="checkbox"/>	REPORT ON DEEPENING WELL	<input type="checkbox"/>
REPORT ON RESULT OF PLUGGING OF WELL	<input type="checkbox"/>		

11-4-47

Hobbs New Mexico

Date

Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the

Repelle Oil Company

H. D. Grimes

Well No. 6

in the

Company or Operator

Lease

NW/4

of Sec. 22

T. 12E

R. 3SE

N. M. P. M.,

Bowers

Field,

Lea

County.

The dates of this work were as follows:

11-7-1947

Notice of intention to do the work was (~~submitted~~) submitted on Form C-102 on _____ 19____

and approval of the proposed plan was (~~obtained~~) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

COMMENCED DRILLING AT 6.00 AM 11-7-1947

Witnessed by Bill Clark Clay & Gackle Driller
Name Company Title

Subscribed and sworn before me this

I hereby swear or affirm that the information given above is true and correct.

8th day of November 1947

Name

[Signature]

Position

Dist Sub

Notary Public

Representing

Repelle Oil Company

Company or Operator

My commission expires

8-4-50

Address

Hobbs New Mexico

Remarks APPROVED

Date

DEC 2 1947

[Signature]

OIL AND GAS INSPECTOR

Title

OIL CONSERVATION COMMISSION
 Santa Fe, New Mexico
MISCELLANEOUS REPORTS ON WELLS

DEC 12 1947

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within 30 days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	XX	REPORT ON DEEPENING WELL
REPORT ON RESULT OF PLUGGING OF WELL		

11 - 18 - 1947

Hobbs New Mexico

Date

Place

OIL CONSERVATION COMMISSION,
 SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the _____

Repollo Oil Company W. D. Grimes Well No. 6 in the _____

Company or Operator Lease

NW of Sec. 28 T. 18S R. 36E N. M. P. M.,

Bowers Field, Lea County.

The dates of this work were as follows: November, 18, 1947

Notice of intention to do the work was (~~was not~~) submitted on Form C-102 on 11- 14 1947

and approval of the proposed plan was (was not) obtained: (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Tested 7" OD. casing set at 3190 Ft from surface with 1800' pump pressure, tested OK. 11-18-47

Witnessed by Mr. Lee Durham Clay & Gackle Driller
 Name Company Title

Subscribed and sworn before me this _____

10th day of November 1947

I hereby swear or affirm that the information given above is true and correct.

Name W. D. Grimes

Position Dist Supt.

Representing Repollo Oil Company
 Company or Operator

Address Hobbs New Mexico

Notary Public

Remarks **APPROVED**

Date DEC 12 1947

W. D. Grimes
 Name
OIL & GAS INSPECTOR
 Title

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

MISCELLANEOUS NOTICES

RECEIVED
DEC 12 1947
HOBBS OFFICE

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	<input checked="" type="checkbox"/>	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL			

Hobbs New Mexico

11-14-47

Place

Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the _____
Repollo Oil Company W. D. Grimes Well No. 6 in _____
Company or Operator Lease
of Sec. 23, T. 18S, R. 38E, N. M. P. M., Bowers Field
Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

To set 3190 ft of 7" GD from surface and cement #/ 800
sacks common cement on November, 16-1947.

Will drill plug and test in 36 hours.

DEC 12 1947

Approved _____, 19____
except as follows:

Repollo Oil Company
Company or Operator
By [Signature]
Position Dist Supt.
Send communications regarding well to
Name Repollo Oil Company
Address Hobbs New Mexico

OIL CONSERVATION COMMISSION
By [Signature]
Title OIL & GAS INSPECTOR

DUPLICATE

NEW MEX. OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

DEC 12 1947

MISCELLANEOUS NOTICES

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified herein begins. A copy will be returned to the sender on which will be given the approval, with any ~~changes~~ ^{changes} or ~~rejection~~ ^{rejection} advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	<input checked="" type="checkbox"/>	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL			

Hobbs New Mexico

11- 7- 1947

Place

Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the _____
Repollo Oil Company W. D. Grimes Well No. 6 in NW
 Company or Operator _____
 of Sec. 28, T. 18S, R. 38 E, N. M. P. M., Bowers Field
Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

To set 437' of 33.6# 9-5/8" OD casing set at 441' from surface and cement with 300 sacks common cement by Halliburton at 9.30 AM 11-8-47.

Will drill plug and test in 66 hrs.

Approved _____ 19____
except as follows:

Repolla Oil Company

By [Signature]
Position Dist. Supt

Send communications regarding well to

Name W. B. Rhee

Address Hobbs New Mexico

OIL CONSERVATION COMMISSION

By [Signature]
Title Asst. Insp.

DUPLICATE

MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

MISCELLANEOUS NOTICES

RECEIVED

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF		NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	XX
NOTICE OF INTENTION TO DEEPEN WELL			

Hobbs New Mexico

11-24-47

Place

Date

**OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.**

Gentlemen:

Following is a notice of intention to do certain work as described below at the _____
Repollo Oil Company d. D. Grimes Well No. 6 in NW
 Company or Operator Lease
 of Sec. 28, T. 183, R. 384, N. M. P. M., Bowers Field
Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

To plug and abandon well, Cement bottom of hole, shoot off 7" OD casing, and plug hole.

Total depth 3325' No oil or gas.

DEC 12 1947

Approved _____, 19____
except as follows:

Repollo Oil Company

By [Signature]
 Position Dist. Supt.
 Send communications regarding well to
 Name W. H. Rhoads
 Address Hobbs New Mexico

OIL CONSERVATION COMMISSION,
 By [Signature]
 Title OF A GAS INSPECTOR

DUPLICATE

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

RECEIVED
DEC 12 1947
RECEIVED

HOBBS OFFICE

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	XX	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

11-10-1947

Hobbs New Mexico

Date

Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the _____

Repolls Oil Company

W. D. Grimes

Well No. 6

In the _____

NY Company or Operator

Lease

of Sec. 38

T. 18S

R. 38E

N. M. P. M.,

Bowers

Field, Lea

County.

The dates of this work were as follows: 11-8-1947

Notice of intention to do the work was (~~not~~) submitted on Form C-102 on 11-7-1947 19____

and approval of the proposed plan was (was not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Tested 9-5/8" OD Casing set 9.441 Ft W/ 600# pump pressure for 30 Min. Tested Ok 9.30 PM 11-10-47

Witnessed by Mr. Lee Durham Clay & Gackle Driller
Name Company Title

Subscribed and sworn before me this _____ I hereby swear or affirm that the information given above is true and correct.

12th day of November 1947

Name M. B. R. Hines

Position Dist. Supt.

Notary Public

Representing Repolls Oil Company

Company or Operator

Address Hobbs New Mexico

APPROVED

Date 11-10-1947

Lee Durham
Name

Oil & Gas Inspector
Title

SIZE OF HOLE	SIZE OF GARDEN	WHERE SET	SACKS OF CEMENT	METHODS USED	AMOUNT OF MUD USED
2 1/2"	3-1/2"	411	500	Calibration	
2 1/2"	3-1/2"	5155	500	25'	

PLUGS AND ADAPTERS

Heaving plug - Material None Length _____ Depth Set _____
 Adapters - Material _____ Size _____

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT
	<u>None</u>					

Results of shooting or chemical treatment Not shot

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 5325 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

PRODUCTION

Put to producing No prod, dry hole, 19_____
 The production of the first 24 hours was None barrels of fluid of which _____ % was oil; _____ % emulsion; _____ % water; and _____ % sediment. Gravity, Be. _____
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Earl Lawson _____, Driller Bill Clark _____, Driller
Lee Durham _____, 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 so far as can be determined from available records.

Subscribed and sworn to before me this 11 day of Dec., 1947
[Signature]
 Notary Public

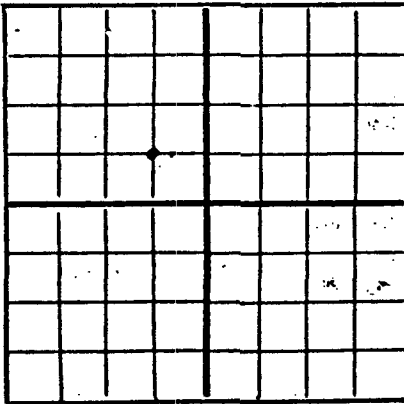
Hobbs New Mexico 12-11-47
 Name [Signature] Date _____
 Position Dist. Supt.
 Representing Repollo Oil Company
 Company or Operator
 Address Hobbs New Mexico

My Commission expires 2-1-50

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

WELL RECORD



AREA 640 ACRES
LOCATE WELL CORRECTLY

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 (?). SUBMIT IN TRIPPLICATE. FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-106 IS PROPERLY FILLED OUT.

Sapelle Oil Company

Hobbs New Mexico

J. J. Grimes

Company or Operator

Well No.



in

NE/4

of Sec.

Address

25

T

183

Lease

R. 385

N. M. P. M.

Howers

Field

100

County

Well is 1900 feet south of the North line and 600 feet west of the East line of NE/4

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

If patented land the owner is J. J. Grimes Address

If Government land the permittee is Address

The Lessee is Address

Drilling commenced 6,00 AM 11-7 19 Drilling was completed 12,00 AM 11-27 19

Name of drilling contractor Clay & Gaskle Address Hobbs New Mexico

Elevation above sea level at top of casing 3654 feet

The information given is to be kept confidential until Nov. 27 19

OIL SANDS OR ZONES

No. 1, from None 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 None to feet

No. 2, from to feet

No. 3, from to feet

No. 4, from to feet

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	OUT & FILLED FROM	PERFORATED		PURPOSE
							FROM	TO	
2 1/2"	22.0	8	JSS	411	Cutie	-	-	-	-
2 1/2"	22	8	JSS	3185	Flant	-	-	-	-

DUPLICATE

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

RECEIVED
DEC 12 1947
REGISTRY

HOBBS OFFICE

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL	XX		

11-25-1947

Hobbs New Mexico

Date

Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the

Repelle Oil Company

W. D. Grimes

Well No. **6**

In the

Company or Operator

Lease

Nw

of Sec. **25**

T. **18S**

R. **38E**

N. M. P. M.,

Bowers

Field,

Lea

County.

The dates of this work were as follows:

November, 26 & 27th - 1947

Notice of intention to do the work was (~~was not~~) submitted on Form C-102 on **11-24-47** 19

and approval of the proposed plan was (was not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Plugged, and abandoned. Spotted 30 sacks cement at 3310.
Spotted 20 sacks cement at 1650'. Hole kept full of heavy mud during operation.
Shot 7" OD Casing @ 1510-1420-1300 ft, Recovered 29 joints,
1285' of 7" OD casing. Spotted 35 sacks cement @ 500 Ft.
Capped hole w/ 15 sacks cement, Completed @ 12.00 Midnight
November, 28th, 1947. 4" Pipe cemented in bottom of cellar and extended
4" above surface as (regulation marker)

Witnessed by

Mr. Bill Clark

Clay & Gaskle

Driller

Name

Company

Title

Subscribed and sworn before me this

28th day of **November**, 19**47**

I hereby swear or affirm that the information given above is true and correct.

Name **W. D. Grimes**

Position **Dist. Supt.**

Notary Public

Representing **Repelle Oil Company**

Company or Operator

Address **Hobbs New Mexico**

APPROVED

Date **DEC 12 1947**

Title

#5 Start Form 6-11
Wint # 4
DUPLICATE

NE. XICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
NOTICE OF INTENTION TO DRILL

JUN 27 1947

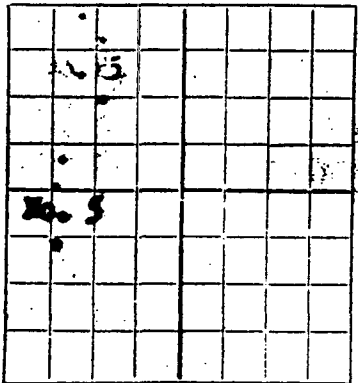
Notice must be given to the Oil Conservation Commission or its proper agent and approval obtained before drilling begins. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to the sender. Submit this notice in triplicate. One copy will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

Helba, New Mexico Place June 24, 1947 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 _____

Shell Oil Company, Incorporated W. D. Grimes Well No. 5 in 11/4
Company or Operator Lease
of Sec. 28, T. 18-S, R. 36-E, N. M. P.M., Hebner Field, Lea County.
N.



The well is 1990 feet (N.) (S) of the south line and 660 feet (E.) (W) of the west line of Sec. 28, T 18-S, R 36-E.

(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 W. D. Grimes

Address _____

If government land the permittee is _____

Address _____

The lessee is Shell Oil Company, Incorporated

Address Box 1409 Midland, Texas

AREA 640 ACRES
LOCATE WELL CORRECTLY

We propose to drill well with drilling equipment as follows: _____

Conventional Rotary Drilling Rig.

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: _____

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
<u>11"</u>	<u>8 5/8"</u>	<u>34</u>	<u>New</u>	<u>400</u>	<u>cemented</u>	<u>to surface</u>
<u>7 7/8"</u>	<u>5 1/2"</u>	<u>25.50</u>	<u>New</u>	<u>Approx. 3190' on top of Dovers Sand</u>	<u>cemented</u>	<u>to top of salt</u>

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 3190 feet.

Additional information:

Approved _____ 19 _____
except as follows:

Sincerely yours,
Shell Oil Company, Incorporated
Company or Operator
By W. D. Grimes
Position District Representative

OIL CONSERVATION COMMISSION
By W. G. Yarbrough
Title Oil & Gas Inspector

Send communication regarding well to:
Name Shell Oil Company, Incorporated
Address Box 1457 Helba, New Mexico

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

RECEIVED JUL 2 1947

DUPLICATE

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

Table with 4 rows and 2 columns for reporting types: REPORT ON BEGINNING DRILLING OPERATIONS, REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL, REPORT ON RESULT OF TEST OF CASING SHUT-OFF, REPORT ON RESULT OF PLUGGING OF WELL, REPORT ON REPAIRING WELL, REPORT ON PULLING OR OTHERWISE ALTERING CASING, REPORT ON DEEPENING WELL.

Hobbs, New Mexico July 21, 1947 Date Place

OIL CONSERVATION COMMISSION, SANTA FE, NEW MEXICO.

Gentlemen: Following is a report on the work done and the results obtained under the heading noted above at the Shell Oil Company, Incorporated W. D. Grimes Well No. 5 in the Company or Operator Lease 5 1/4 of Sec. 28 T. 15-S R. 38-S N. M. P. M., Bowers Field, Lea County.

The dates of this work were as follows: Notice of intention to do the work was submitted on Form C-101 on June 24, 1947 and approval of the proposed plan was obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Spudded 1:00 p.m. 7-17-47.

Witnessed by Ray Moore Shell Oil Company, Inc. Head Reustabout Name Company Title

Subscribed and sworn before me this 21st day of July 1947 Notary Public

I hereby swear or affirm that the information given above is true and correct. Name M. G. Brunner Position District Superintendent Representing Shell Oil Company, Incorporated Company or Operator Address Box 1457 Hobbs, New Mexico

Signature of Notary Public

Signature of M. G. Brunner

APPROVED Date JUL 25 1947

Remarks:

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
MISCELLANEOUS NOTICES

RECEIVED
JUL 25 1947
HOBBBS OFFICE

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	<input checked="" type="checkbox"/>	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL			

Hobbs, New Mexico

July 18, 1947

Place

Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the

Shell Oil Company Inc. V. D. Grimes Well No. 5 in SW/4
Company or Operator Lease
of Sec. 38, T. 18-S, R. 9-E, N. M. P. M., Dovers Field.
Lee County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

Run # 5/8-inch casing to 421 feet and cemented with 150 sacks cement. Cement did not circulate. Recemented from top of cement at 100 feet to surface with 45 sacks cement. Job Complete 2:00 p.m. 7-18-47. Will test casing shut-off at 2:00 p.m. 7-19-47

Approved JUL 25 1947 19
except as follows:

Shell Oil Company, Incorporated
Company or Operator

By M. C. Brunner

Position District Superintendent
Send communications regarding well to

Name Shell Oil Company, Incorporated

Address Box 1857 Hobbs, New Mexico

OIL CONSERVATION COMMISSION

[Signature]
Oil & Gas Inspector

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

DUPLICATE MISCELLANEOUS REPORTS ON WELLS

RECEIVED
JUL 25 1947
HOBBBS OFFICE

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	X	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL	X		

July 21, 1947

Hobbs, New Mexico

Date

Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the _____

Shell Oil Company, Incorporated M. D. Grimes Well No. 5 in the _____
Company or Operator Lease

SW/8 of Sec. 28, T. 12-S, R. 38-S, N. M. P. M.,
Bozara Field, Lee County.

The dates of this work were as follows: 7-19-47

Notice of intention to do the work was (~~submitted~~) submitted on Form C-102 on 7-18 19 47
and approval of the proposed plan was (was not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Tested 8 5/8-inch casing with 1000 p.s.i. water pressure for 30 minutes. Held OK.
Drilled cement and tested water shut off with 500 p.s.i. water pressure for 30 minutes.
Held OK.

Witnessed by Ray Harts Name Shell Oil Company, Inc. Company Head Resident Title

Subscribed and sworn before me this 21st

I hereby swear or affirm that the information given above is true and correct.

Day of July, 19 47

Name M. C. Brunner

Louis R. Davis
Notary Public

Position District Superintendent

Representing Shell Oil Company, Incorporated
Company or Operator

My commission expires Sept. 16, 1950

Address Box 1857 Hobbs, New Mexico

Remarks

Ray Harts
Title

APPROVED
Date JUL 25 1947

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
MISCELLANEOUS NOTICES

JUL 31 1947
HOBBS OFFICE

DUPLICATE

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	<input checked="" type="checkbox"/>	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL			

Hobbs, New Mexico July 27, 1947
Place Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the _____

Shell Oil Company, Incorporated V. D. Grimes Well No. 5 in SW/4
Company or Operator Lease

of Sec. 28, T. 18-S, R. 35-E, N. M. P. M., Bowers Field.
Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK
FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

Ran Caliper Survey, Ran 4 1/2-inch O.D. casing to 3170 feet and cemented with 600 sacks cement. Plug down 11:00 p.m. 7-26-47. After 12 hours ran temperature survey finding top cement at 1680 feet. Will test casing shut-off at 5:00 a.m. 7-28-47.

Approved JUL 31 1947, 19____
except as follows:

Shell Oil Company, Incorporated
Company or Operator

By M. G. Brunner

Position District Superintendent
Send communications regarding well to _____

Name Shell Oil Company, Incorporated

Address Box 1457 Hobbs, New Mexico

OIL CONSERVATION COMMISSION

By Ray J. Gush...
Title Oil & Gas Inspector

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

RECEIVED
JUL 31 1947

DUPLICATE

MISCELLANEOUS REPORTS ON WELLS

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	X	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

July 29, 1947

Date

Hobbs, New Mexico

Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the _____

Shell Oil Company, Incorporated V. D. Grimes Well No. 5 in the _____
Company or Operator Lease

SV/4 of Sec. 28, T. 18-S, R. 38-E, N. M. P. M.,
Hobbs Field, Lea County.

The dates of this work were as follows: 7-28-47

Notice of intention to do the work was (was not) submitted on Form C-102 on 7-27 19 47
and approval of the proposed plan was (was not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Tested 4 1/2-inch O.D. casing with 1000 p.s.i. water pressure for 30 minutes.

Held OK. Drilled cement and shoe and tested cement with 1000 p.s.i. water pressure for 30 minutes. Held OK.

Witnessed by A. T. Guernsey Shell Oil Company, Inc. Jr. Engineer
Name Company Title

Subscribed and sworn before me this 29th

day of July, 19 47

Notary Public

I hereby swear or affirm that the information given above is true and correct.

Name M. G. Brunner

Position District Superintendent

Representing Shell Oil Company, Incorporated
Company or Operator

Address Box 1457 Hobbs, New Mexico

My commission expires _____

Remarks:

APPROVED

JUL 31 1947

M. G. Brunner
Name
OIL & GAS INSPECTOR
Title

Place Hobbs, New Mexico
Date July 30, 1947

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

Glenn Staley
Production Office
Hobbs, New Mexico.

Designate UNIT well is located in
72

NOTICE OF COMPLETION OF: (Lease) V. P. Grimes Well No. 5
1900 feet from 8 line: 600 feet from W line; S.T. & R
28, 11-1, 30-1

DATE STARTED July 17, 1947
DATE COMPLETED July 30, 1947
ELEVATION 2638 (est.)
TOTAL DEPTH S.L.M. 3200'
CABLE TOOLS _____ ROTARY TOOLS 3200'

CASING RECORD

SIZE <u>8 5/8"</u>	DEPTH <u>421</u>	SAX CEMENT <u>195</u>
SIZE <u>4 1/2"</u>	DEPTH <u>3170</u>	SAX CEMENT <u>600</u>
SIZE _____	DEPTH _____	SAX CEMENT _____

TUBING RECORD

SIZE 1 1/2" DEPTH 3198'

ACID RECORD

NO. GALS _____	NO. GTS. _____
NO. GALS _____	NO. GTS. _____
NO. GALS _____	NO. GTS. _____

FORMATION TOPS

Anhydrite 1625'
Top Salt 1720'
Base Salt 2005'
Red Sand _____
Brown Lime 2000'
White Lime _____
Oil or Gas Pay 3191' - 3197'
Water 2120'

Initial Production Test 179 Pumping _____ Flowing X
Test After Acid or Shot _____

Initial GAS VOLUME 135.42 MFC/D 0.02 751

SCHEDULE NO. _____ DATE _____

PIPE LINE TAKING OIL Shell Pipe Line Corp.

REMARKS _____ COMPANY Shell Oil Company, International

SIGNED BY: V. P. Grimes
District Superintendent

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
<p>No samples taken above 3170 feet. Sample Examination taken from Grimes No. 2 (Twin well, located 467 feet Northwest indicates following Top):</p>			
Top of Red Beds	3170		
Top of Anhydrite	3165		
Top of Salt	3120		
Base of Salt	3085		
Top Brown Lime	2800		
<p>From Sample examination of Grimes No. 2:</p>			
3170	3191	21	Anhydrite
3191	3197	6	Bowers Sand
3197	3200	3	Anhydrite
<p>Estimated thickness of Grimes No. 2:</p>			
3170	3191	21	Anhydrite
3191	3197	6	Bowers Sand
3197	3200	3	Anhydrite

SIZE OF BORE	SIZE OF CASING	WHERE BENT	NO. OF BENTS	METHOD USED	MUD GRADE	AMOUNT OF MUD USED
2 7/8	3 1/2	At	1	Tap & Turn	100	
2 7/8	3 1/2	270	1	Tap & Turn	100	

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth Set _____
 Adapters—Material _____ Size _____

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT

Results of shooting or chemical treatment _____

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 3200 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

PRODUCTION

Put to producing July 30 19 47
 The production of the first 24 hours was 379 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, Be 41.5 corrected
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____ **S.O.L. = 72**

EMPLOYEES

H. I. Toy Driller G. J. Young Driller
A. C. Clauger Driller H. F. Green 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 so far as can be determined from available records.

Subscribed and sworn to before me this 30th

day of July 19 47

Gene R. Davis
 Notary Public

My Commission expires My Commission Expires Sept. 16, 1950

Hobbs, New Mexico July 30, 1947
 Place Date

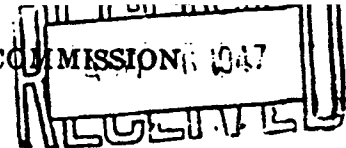
Name H. C. Brunner

Position District Superintendent

Representing Shell Oil Company, Incorporated
 Company or Operator

Address Box 1457 Hobbs, New Mexico

Santa Fe, New Mexico



HOBBS OFFICE

WELL RECORD

AREA 640 ACRES
LOCATE WELL CORRECTLY

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 (?). SUBMIT IN TRIPPLICATE.

Shell Oil Company, Incorporated Box 1457 Hobbs, New Mexico
Company or Operator Address

W. D. Grimes Well No. 5 of Sec. 28 T. 18-S R. 38-E
Lease

R. 38-E N. M. P. M. 20000 Field Lea County Lea

Well is 300 feet south of the North line and 4600 feet west of the East line of Sec. 28, T 18-S R 38-E

If State land the oil and gas lease is No. _____ Assignment No. _____

If patented land the owner is W. D. Grimes Address _____

If Government land the permittee is _____ Address _____

The Lessee is Shell Oil Company, Incorporated Address Box 1457 Hobbs, New Mexico

Drilling commenced July 17 19 47 Drilling was completed July 30 19 47

Name of drilling contractor Company Tools Address Box 1457 Hobbs, New Mexico

Elevation above sea level at top of casing 3646 feet.

The information given is to be kept confidential until Not Confidential 19 _____

OIL SANDS OR ZONES

No. 1, from 3191 to 3197 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	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED		PURPOSE
							FROM	TO	
<u>8 5/8"</u>	<u>310</u>	<u>8</u>	<u>Reble</u>	<u>409</u>	<u>Form Pattern</u>				<u>Protection Oil String</u>
<u>4 1/2"</u>	<u>9.54</u>	<u>8</u>	<u>Reble</u>	<u>3158</u>	<u>Reble</u>				

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

RECEIVED
DEC 8 1953
OIL CONSERVATION COMMISSION

MISCELLANEOUS NOTICES

Submit this notice in TRIPLICATE to the District Office, Oil Conservation Commission, before the work specified HOBBES OFFICE Copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Notice by Checking Below

NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO TEMPORARILY ABANDON WELL		NOTICE OF INTENTION TO DRILL DEEPER	
NOTICE OF INTENTION TO PLUG WELL	X	NOTICE OF INTENTION TO PLUG BACK		NOTICE OF INTENTION TO SET LINER	
NOTICE OF INTENTION TO SQUEEZE		NOTICE OF INTENTION TO ACIDIZE		NOTICE OF INTENTION TO SHOOT (NITRO)	
NOTICE OF INTENTION TO GUN PERFORATE		NOTICE OF INTENTION (OTHER)		NOTICE OF INTENTION (OTHER)	

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Hobbs, New Mexico
(Place)

December 4, 1953
(Date)

Gentlemen:

Following is a Notice of Intention to do certain work as described below at the.....

Shell Oil Company

Grimes

Well No. 5

in "L" (Unit)

(Company or Operator)

NW 1/4 SW 1/4 of Sec. 28 (40-acre Subdivision)

28

T. 18-S

R. 38-E

NMPM.

Bowers

Pool

Lea

County.

FULL DETAILS OF PROPOSED PLAN OF WORK
(FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS)

We propose to plug and abandon Grimes No. 5 as follows:

- (1) Load hole with mud
- (2) Spot cement plug in 4-1/2" casing shoe at approximately 3150'
- (3) Determine freeze-point of 4-1/2" casing
- (4) Shoot-off casing above freeze-point and pull recoverable casing
- (5) Spot plug in 4-1/2" casing below shoot-off point
- (6) Spot plug across shoe of 6-5/8" casing at approximately 420'
- (7) Spot cement surface plug and erect 4" marker

Approved DEC 9 1953, 19.....
Except as follows:

Shell Oil Company

Company or Operator

By F. D. Leigh

Original signed by
F. D. Leigh

Position Division Mechanical Engineer

Send Communications regarding well to:

Approved OIL CONSERVATION COMMISSION

By S. J. Stanley
Engineer District 1

Name Shell Oil Company

Address Box 1977, Hobbs, New Mexico

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

(Form C-103)
RECEIVED
DEC 17 1953
OIL CONSERVATION COMMISSION
HOBB'S OFFICE

MISCELLANEOUS REPORTS ON WELLS

Submit this report in TRIPPLICATE to the District Office, Oil Conservation Commission, within 10 days after the work specified is completed. It should be signed and filed as a report on Beginning Drilling Operations, Results of test of casing shut-off, result of plugging of well, result of well repair, and other important operations, even though the work was witnessed by an agent of the Commission. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Report by Checking Below

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF PLUGGING WELL	<input checked="" type="checkbox"/>	REPORT ON RECOMPLETION OPERATION		REPORT ON (Other)	

December 16, 1953

Hobbs, New Mexico

(Date)

(Place)

Following is a report on the work done and the results obtained under the heading noted above at the

Shell Oil Company

(Company or Operator)

Grimes

(Lease)

Lea County Casing Pullers

(Contractor)

Well No. 5 in the NW 1/4 SW 1/4 of Sec. 28

T. 18-S, R. 30-E, NMPM, Bowers Pool, Lea County.

The Dates of this work were as follows: December 13 thru 15, 1953

Notice of intention to do the work (was) ~~submitted~~ submitted on Form C-102 on December 4, 1953

(Cross out incorrect words)

and approval of the proposed plan (was) ~~obtained~~ obtained.

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Plugged and abandoned Grimes No. 5 as following:

- (1) Loaded hole with mud
- (2) Spotted 10 sack cement plug at 3150' in 4-1/2" casing
- (3) Shot and pulled 1200' of 4-1/2" casing
- (4) Ran 2" tubing to 1230' and spotted 10 sack cement plug in 4-1/2" casing
- (5) Spotted 3 sack cement plug in 8-5/8" casing at surface and erected 4" x 4" marker as required by Rule 202. Well PLUGGED & ABANDONED 12-15-53

Witnessed by H. E. Brooks Shell Oil Company Production Foreman
(Name) (Company) (Title)

Approved: OIL CONSERVATION COMMISSION

H. A. Johnson
(Name)

Oil & Gas Inspector

JAN 29 1954

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

Original signed by

Name F. D. Leigh F. D. Leigh

Position Division Mechanical Engineer

Representing Shell Oil Company

Rev 1057 Hobbs, New Mexico

#4 Getty oil co
 unit # H

OWWO

COUNTY LEA FIELD Hobbs STATE NM MN 07459
 OPR GETTY OIL CO. MAP
 4 Grimes, W. D.
 Sec 29, T-18-S, R-38-E CO-ORD
 2310' FNL, 330' FEL of Sec

Re-Cmp 4-21-71	CLASS		EL	
	FORMATION	DATUM	FORMATION	DATUM
CSG & SX TUBING				
12 1/2" at 220' w/200 sx				
9 5/8" at 2720' w/600 sx				
7" at 3880' w/300 sx				
5 1/2" lnr 3796-4236' w/50 sx.				
LOGS EL GR RA IND HC A				
	TD 4236'			

(San Andres) Perfs 4160-4232' NO NEW POTENTIAL.

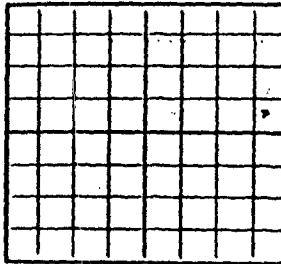
Distribution limited and publication prohibited by subscribers' agreement.
 Reproduction rights reserved by Williams & Lee Logging Service, Inc.

CONT. DATE PROP DEPTH 4232' TYPE WO

F.R.C. 5-13-71; Opr's Elev. 3657' DF
 PD 4232' WO (San Andres)
 (Orig. Tidal Oil Co., comp 12-1-30 from OH
 3880-4194', OTD 4194'; OWDD & Re-Cmp 7-24-49
 thru Perfs 4218-32', OTD 4236')
 TD 4236'; COMPLETE
 Perf 4160-70' w/1 SPF
 Acid (4160-70') 2000 gals (15% NE)
 COMPLETION REPORTED

5-11-71

5-13-71



AREA 640 ACRES
LOCATE WELL CORRECTLY

DEPARTMENT OF THE STATE GEOLOGIST

WELL RECORD

Mail to State Geologist, Santa Fe, New Mexico, not more than ten days after completion of well. Indicate questionable data by following it with (?). Submit in duplicate.

Company Tidal Oil Company Address Box 1087 Hobbs, N.M.
 Send correspondence to F. Schneider Address W.T. Waggoner Bldg. Ft. Worth, Tex
Wm. D. Grimes Well No. 4 in NE 1/4 of Sec. 29 T. 18-S
R 38-E N. M. P. M. Hobbs Oil Field Lea County.
 If State land the oil and gas lease is No. _____ Assignment No. _____
 If patented land the owner is Wm. D. Grimes Address 1st Natl. Bank Seminole, Texas.
 The lessee is _____ Address _____
 If not state or patented land, give status _____
 Drilling commenced Oct. 7, 1930 19 _____ Drilling was completed Nov. 14, 1930 19 _____
 Name of drilling contractor Champlin & Bass, Inc. Address Holdenville, Okla.
 Elevation above sea level at top of casing 3647 approx. feet.
 The information given is to be kept confidential until _____ 19 _____

OIL SANDS OR ZONES

No. 1, from 4050 to 4175 No. 4, from _____ to _____
 No. 2, from _____ to _____ No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from 135 to 160 No. 3, from _____ to _____
 No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATED		PURPOSE
							FROM	TO	
12 1/2"	50#	10	D.B.LW	213' 8"	T.P.				Surface Pipe
9-5/8"	36#	6	Sale	2707' 6"	Bkr. Float				Water Shut-off
									(Shoe and 1 bottom joints are spot welded)
7" OD	24#	10	Sale	3894' 12"	Bkr. Float				Oil Stripling
									(Shoe and 4 bottom joints are spot welded)
3"	9.3#	10	W.I.	4227' 7"	None				tubing
									(Bottom joint is perforated by slotting)

NEW MEXICO STATE LAND OFFICE
SANTA FE, NEW MEXICO

DEPARTMENT OF THE STATE GEOLOGIST
NOTICE OF TEST OF WATER SHUT-OFF

Notice must be given to the State Geologist or to the proper Oil and Gas Inspector at least five days before the test. It is desirable that a representative of the Department of the State Geologist witness the water shut-off before drilling into the productive sand whenever possible. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to sender. Submit this notice in duplicate.

Hobbs N. Mex., Nov. 8, 1930, 19

Mr. R.L. Halley

State Geologist,
~~Carlsbad~~ ~~XXXXX~~, New Mexico.

Dear Sir:

You are hereby notified that we intend to test the shut-off of water in Wm. D. Grimes
Well No. 4 in NE 1/4 of Sec. 29, T. 18-S, R. 38-E,
N. M. P. M., Hobbs Oil Field Lee County,
on Nov. 12, 19 30 24 lb. casing was cemented in Line
formation at a depth of 3850' feet on Nov. 8, 1930 19
300 sacks of El. Toro Oil Well cement were used.

The method used in placing the cement was as follows:

Halliburton.

Fluid level will be bailed to a depth of 2500' feet and left undisturbed for at least 12 hours before your inspection.

Adjacent property owners have been notified as follows: Humble Oil Co., Amerada Pet. Corp
California Oil Co., Shell Pet. Co., Paririe Oil & Gas Co.

Additional information:

Approved 11/10 30 19 30

Except as follows:

Sincerely yours,

TIDAL OIL COMPANY

Company or Operator.

By [Signature]

Position District Foreman

Send communication regarding well to

Name Tidal Oil Company,

Address Box 1087 Hobbs, N.M.

R.L. Halley

State Geologist or Oil and Gas Inspector.

FORMATION RECORD

FROM	TO	TEST DEPTH	FORMATION
0	10		Lime (In Cellar)
10	20		Caliche do
20	35		Caliche
35	60		Sand
60	62		Lime Shell
62	100		Sand
100	102		Lime Shell
102	118		Sandy
118	123		Sandy Lime
123	145		Sand
145	150		Shell Lime
150	156		Hard Sand
156	161		Shell Lime
161	180		Hard Sand
180	183		Shell Lime
183	195		Sand
195	218		Red Bed
218	220		Yellow Clay (Cemented 12 1/2" w/ 200 sax. Cement)
220	1260		Red Bed
1260	1445		Red Bed and Sand
1445	1510		Red Bed and Lime Shells
1510	1550		Broken Lime and Anhydrite
1550	1620		Red Bed and Anhydrite
1620	1655		Sand and Anhydrite
1655	1710		Anhydrite (Top of Salt 1710')
1710	2475		Salt
2475	2575		Anhydrite and Salt
2575	2600		Red Bed and Anhydrite
2600	2968		Anhydrite (Cemented 9-5/8" Csg. 2720' 600 sax)
2968	3078		Anhydrite and Shale (Showing of gas at 2830')
3078	3208		Anhydrite
3208	3218		Oil Sand (Showing of Oil)
3218	3715		Anhydrite
3715	3720		Sand
3720	3855		Anhydrite
3855	3880		Lime (Cemented 7" Csg. at 3880' 300 sax. Cement)
3880	3949		Lime and Anhydrite
3949	4050		Lime (Top of pay at 4050')
4050	4130		Gray Brown Lime Broken
4130	4175		Soft Brown Lime
4175	4194		Hard Gray Lime
4194			Total Depth.

This well built up a pressure of 400# on casing after tubing was run and shut in. Blew itself in and cleaned self without running swab.

On open test for 30-minutes made 405.06-bbls. which makes a 24-hr. gauge of 19,443.10-bbls. with 16,640,000 cu. ft. of Gas.

2720'	600	Well Halliburton	Hole Full
7" OD 3450'	300		do

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth Set _____
 Adapters—Material _____ Size _____

SHOOTING RECORD

SIZE	SHELL USED	EXPLOSIVE USED	QUANTITY	DATE	DEPTH SHOT	DEPTH CLEANED OUT

TOOLS USED

Rotary tools were used from 220' feet to 4194' feet, and from _____ feet to _____ feet
 Spudder
 Cable tools were used from 20' feet to 220' feet, and from _____ feet to _____ feet

PRODUCTION

Proration will allow this well to be put to producing ~~Dec. 1,~~ 1930
 Put to producing ~~Dec. 1,~~ 1930
 Test of Nov. 17, 1930
 The production of the first 24 hours was 19,443 barrels of fluid of which 99.4% was oil; .6% emulsion; _____% water; and _____% sediment. Gravity, Be 35.5 at 50
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYES

M.E. Self _____, Driller _____, Driller _____
 U.S. King _____, 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 so far as can be determined from available records.

Subscribed and sworn to before me this 18 Name J.P. Wade
 day of November, 1930, Position District Foreman.
Mary Frances Beal Representing Tidal Oil Company Company or Operator
 Notary Public.
 My commission expires June 10 1934

MEXICO STATE LAND OFFICE
Santa Fe, New Mexico
DEPARTMENT OF THE STATE GEOLOGIST
NOTICE OF INTENTION TO DRILL NEW WELL

Notice must be given to the State Geologist or to the proper Oil and Gas Inspector 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.

Mr. R.L. Halley State Geologist. Carlsbad N. Mex., Sept. 30, 1930

Dear Sir: You are hereby notified that it is our intention to commence the drilling of a well to be known as W. M. D. Grimes Well No. 4 in NE 1/4 of Sec. 29 T. 18-S, R. 28-E, N. M. P. M., Hobbs Oil Field Lea County

AREA 640 ACRES
LOCATE WELL CORRECTLY

The well is 2310 feet (XX of N line and 330 feet (XX of East Line (W.)

of East line of Sec. 29-18s-38e
(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 W.D. Grimes

Address 1st Nat'l. Bank, Seminole, Texas.

The lessee is TIDAL OIL COMPANY Address Fort Worth, Texas

The elevation of the derrick floor above sea level is 3647 feet. We propose to drill well with Rotary Rig. approx.

Make of Drill _____

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

Size of Casing	Weight Per Foot	New or Second Hand	Depth	Landed or Cemented
12 1/2"	50#	S.H.	250'	Cemented
9-5/8"	36#	New	2900'	Cemented
7" OD	24#	New	3900'	Cemented

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 4000' feet.

Additional information:

Approved 196 30
Except as follows:

Sincerely yours,
TIDAL OIL COMPANY
Company or Operator.

By [Signature]
Position Supt.

Send communication regarding well to
Name F. Schneider
Address Tidal Oil Company, Fort Worth, Texas.

State Geologist or Oil and Gas Inspector
[Signature]

DEPARTMENT OF THE STATE GEOLOGIST

STATE LAND OFFICE
SANTA FE, NEW MEXICO

MISCELLANEOUS REPORTS ON WELLS

Reports should be made within ten days of completing the work indicated and should be submitted in duplicate.

Indicate nature of report by checking.

Notice of intention to drill _____	Subsequent record of shooting _____
Notice of intention to change plans _____	Notice of intention to pull or otherwise alter casing _____
Notice of date for test of water shut-off _____	Notice of intention to abandon well _____
Report on result of test of water shut-off XXXXXXXX	Supplementary well history _____
Notice of intention to re-drill or repair well _____	Monthly report of operations _____
Notice of intention to shoot _____	

Mr. R. L. Halley Hobbs, N. Mex. Nov. 13, 1930
State Geologist
Carlsbad, ~~San Juan~~ New Mexico.

Following is a report giving the results of work done as indicated above at Wm. D. Grimes

Well No. 4 in NE 1/4 of Sec. 29 T. 18-S R. 38-E
N.M.P.M., Hobbs Oil Field Lea County.

DETAILS

State names of and expected depths to objective sands or producing horizon; show sizes, weights, and lengths of casing run or proposed; indicating mudding jobs, cementing points, water horizon, number of days operated, and total depth at end of month, and other important information.

Result of Water Test: Bailed hole dry and have satisfactory shut off.
Showed no Oil or Gas.
7" O.D. Casing Cemented at 3880'

Approved Nov. 19, 1930.
R. L. Halley
(Name)

Company TIDAL OIL COMPANY
By J. K. Wade
Title District Foreman
Address Box 107 Hobbs, N.M.

State Oil & Gas Insp.

#2 Sinclair Oil & Gas
unit # F

Form C-103
(Revised 3-55)

NEW MEXICO OIL CONSERVATION COMMISSION

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY Sinclair Oil & Gas Company - 520 East Broadway - Hobbs, New Mexico
(Address)

LEASE W.D. Grimes WELL NO. 2 UNIT F S 28 T 18 R 38

DATE WORK PERFORMED As Shown POOL Hobbs

This is a Report of: (Check appropriate block) Results of Test of Casing Shut-off
 Beginning Drilling Operations Remedial Work
 Plugging Other Plug & Abandon

Detailed account of work done, nature and quantity of materials used and results obtained.

4-6-59 4223 San Andres - Moved in & rigged up DD Unit.
4-8-59 4223 San Andres - Pulled 84 jts. 3-1/2" OD tbg. & 15 jts. 2-7/8" OD tbg. (Total 4235).
4-9-59 4243 San Andres - Ran gauge ring to 3850'. Set Baker CI Retainer @ 3825'. Ran 2" tbg. & squeeze tools. Squeezed open hole 1/3972-4243 w/100 sks. Inferno cement. Max. 2200#. Raised tbg. dumped 5 sks. on retainer. Pulled tbg. Released DD Unit.
4-15-59 4243 San Andres - Cleaned out cellar. Installed pull nipple & worked 6-5/8" OD csg.
4-16-59 4243 San Andres - Cut 6-5/8" OD csg. @ 2958'. Pulling casing.
4-17-59 4243 San Andres - Finished pulling 6-5/8" OD csg. (3067'). Ran tbg. to 3100'.
4-18-59 4243 San Andres - Spotted 300 sks. cement 1/2350-3100'. Filled hole w/heavy mud. Set 4" "Regulation Marker" in bottom cellar & top 10-3/4" OD csg. in 25 sks. cement extending 4' above surface level. P&A completed 5:00 PM 4-18-59

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:
DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____
Tbng. Dia _____ Tbng Depth _____ Oil String Dia. _____ Oil String Depth _____
Perf Interval (s) _____
Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:	BEFORE	AFTER
Date of Test	_____	_____
Oil Production, bbls. per day	_____	_____
Gas Production, Mcf per day	_____	_____
Water Production, bbls. per day	_____	_____
Gas-Oil Ratio, cu. ft. per bbl.	_____	_____
Gas Well Potential, Mcf per day	_____	_____

This is a Report of: (Check appropriate block) Res of Test of Casing Shut-off

Beginning Drilling Operations

Remedial Work

Plugging

Other Plug & Abandon

Detailed account of work done, nature and quantity of materials used and results obtained.

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 4-18-59 4243 San Andres - Spotted 300 sks. cement f/2350-3100'. Filled hole w/heavy mud. Set 4" "Regulation Marker" in bottom cellar & top 10-3/4" OD csg. in 25 sks. cement Extending 4' above surface level. P&A completed 5:00 PM 4-18-59/

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____

Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Perf Interval (s) _____

Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:

BEFORE

AFTER

Date of Test _____

Oil Production, bbls. per day _____

Gas Production, Mcf per day _____

Water Production, bbls. per day _____

Gas-Oil Ratio, cu. ft. per bbl. _____

Gas Well Potential, Mcf per day _____

Witnessed by _____

(Company)

OIL CONSERVATION COMMISSION

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

Name John W. Ramsey

Name Bob Smith

Title Geologist

Position Dist. Supt.

Date JAN 2, 1960

Company Sinclair Oil & Gas Company

Orig & 2 cc: OCC
cc: P&R, HFD, File

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

HOBBS OFFICE 000

MISCELLANEOUS NOTICES

Submit this notice in TRIPLICATE to the District Office, Oil Conservation Commission, Hobbs, New Mexico. The work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Notice by Checking Below

NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO TEMPORARILY ABANDON WELL		NOTICE OF INTENTION TO DRILL DEEPER	
NOTICE OF INTENTION TO PLUG WELL	X	NOTICE OF INTENTION TO PLUG BACK		NOTICE OF INTENTION TO SET LINER	
NOTICE OF INTENTION TO SQUEEZE		NOTICE OF INTENTION TO ACIDIZE		NOTICE OF INTENTION TO SHOOT (Nitro)	
NOTICE OF INTENTION TO GUN PERFORATE		NOTICE OF INTENTION (OTHER)		NOTICE OF INTENTION (OTHER)	

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Hobbs, New Mexico
(Place)

February 24, 1959
(Date)

Gentlemen:

Following is a Notice of Intention to do certain work as described below at the.....

Sinclair Oil & Gas Company W.D. Grimes Well No. 2 in F
(Company or Operator) Lease (Unit)

SE 1/4 NW 1/4 of Sec. 28, T. 18S, R. 38E NMPM., Hobbs Pool
(40-acre Subdivision)

Lee County.

FULL DETAILS OF PROPOSED PLAN OF WORK
(FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS)

(Offset operators have been notified of this intention to plug and abandon)

- PROPOSE TO Plug and Abandon Well, as follows:**
- Cut 3" OD Tubing off at 3135' or below if possible.
 - Set Cast Iron Drillable Retainer just above the stuck tubing and squeeze open hole section 3974'-4223' with approximately 250 sacks cement.
 - Cut 6-5/8" OD Casing at approximately 3000' and pull.
 - Spot 300 sacks cement from 2350'-3100'.
 - Spot 25 sack cement plug in the top of 10-3/4" Casing and bottom of cellar, with 4" regulation marker set 4' above surface. Fill cellar, clean and level loca tien.

- 16" OD Casing set at 223' with 200 sacks cement.
- 10-3/4" OD Casing set at 2710' with 700 sacks cement.
- 6-5/8" OD Casing set at 3974' with 250 sacks cement.
- 3" OD Tubing set at 4235' - stuck on bottom & split at 3135' f/surface.

Approved
Except as follows:

By: [Signature]
 Position: Dist. Supt.
 Send Communications regarding well to:

Approved
 OIL CONSERVATION COMMISSION
[Signature]
 Title: [Signature]

Name: C.G. Salter
 Address: 520 E Broadway, Hobbs, N.M.

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY Sinclair Oil & Gas Company, 520 East Broadway, Hobbs, New Mexico
(Address)

LEASE W. D. Grimes WELL NO. 2 UNIT F S 28 T 18 R 38

DATE WORK PERFORMED As Shown POOL Hobbs

This is a Report of: (Check appropriate block) Results of Test of Casing Shut-off

Beginning Drilling Operations

Remedial Work

Plugging

Other _____

Detailed account of work done, nature and quantity of materials used and results obtained.

The cellar was dug out and a high pressure bleeder line was run to the surface from the following annulus: surface-intermediate and intermediate-oil strings. The opening of the valves in the cellar was witnessed by E. J. Fischer, District Engineer of District I of Oil Conservation Commission on January 22, 1958. The cellar was then filled in again.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____

Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Perf Interval (s) _____

Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:

BEFORE

AFTER

Date of Test

Oil Production, bbls. per day

Gas Production, Mcf per day

Water Production, bbls. per day

Gas-Oil Ratio, cu. ft. per bbl.

Gas Well Potential, Mcf per day

Witnessed by _____

(Company)

OIL CONSERVATION COMMISSION

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

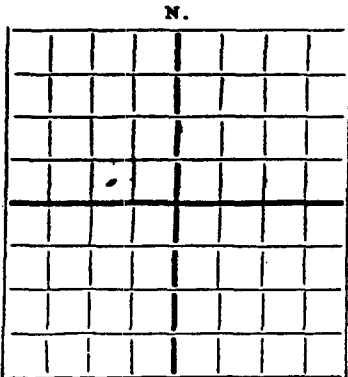
Name E. J. Fischer

NEW MEXICO STATE LAND C
 Santa Fe, New Mexico
DEPARTMENT OF THE STATE GEOLOGIST
NOTICE OF INTENTION TO DRILL NEW WELL

Notice must be given to the State Geologist or to the proper Oil and Gas Inspector 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.

Mr. T. A. Stancliff, State Geologist. Tulsa, Oklahoma N. Mex., October 20, 1932

Dear Sir: You are hereby notified that it is our intention to commence the drilling of a well to be known as W. D. Grimes Well No. -Two-(2)- in NE¹ of Sec. 28 T. 18S, R. 58E, N. M. P. M., Lea County Oil Field



AREA 640 ACRES
 LOCATE WELL CORRECTLY

The well is 550 feet ^(N.)_(S) of South line and 990 feet _(E)^(W) of East line of SE¹ NE¹ Sec. 28

(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 W. D. Grimes
 Address Hobbs, New Mexico

The lessee is Repollo Oil Company Address Box 521, Tulsa, Oklahoma
 The elevation of the derrick floor above sea level is 5647.21 feet. We propose to drill well with No. Rotary Make of Drill _____

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

Size of Casing	Weight Per Foot	New or Second Hand	Depth	Landed or Cemented
15-1/2"	70#	Second Hand	228'	Cemented - 245 Sacks
10"	45#	Second Hand	2750'	Cemented - 700 sacks
6-1/4"	28#	Second Hand	5942'	Cemented - 800 Sacks

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 4990 feet.
 Additional information:

Approved Oct. 22, 1932
 Except as follows:

Sincerely yours,
Repollo Oil Co
 Company or Operator.

By W. H. Bacon
 Position _____
 Send communication regarding well to
 Name Glen Harroun
 Address Box 767
East Worth

State Geologist or Oil and Gas Inspector.

T. A. Stancliff

NEW MEXICO STATE LAND OFFICE
OFFICE OF THE STATE GEOLOGIST
SANTA FE, NEW MEXICO

Read and Fwd.
 T. A. Standliff
 State Oil & Gas Inspector

MISCELLANEOUS REPORTS ON WELLS

Submit this report in duplicate to the State Geologist or proper Oil and Gas Inspector within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of water shut-off, result of abandonment of well, and other important operations, even though the work was witnessed by the State Geologist or Oil and Gas Inspector. Reports on minor operations need not be signed and sworn to before a notary public, but such operations should be witnessed by an Oil and Gas Inspector if possible.

Indicate nature of report by checking below:

REPORT ON BEGINNING DRILLING OPERATIONS	X	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF SHOOTING WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF WATER SHUT-OFF		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF ABANDONMENT OF WELL			

Hobbs, N. M. Oct. 21 st, 1932.

Mr. E. H. Wells State Geologist,

PLACE

DATE

Santa Fe, N. Mex.

Following is a report on the work done and the results obtained under the heading noted above at the

Taber & Coleman for Repollo Oil Co. Grimes Well No. 2 in the

COMPANY OR OPERATOR

28

LEASE

185

38 E.

Hobbs S. E. 4 S. 11 of Sec. 28, T. 185, R. 38 E., N. M. P. M.,

Oil Field,

Lea

County.

The dates of this work were as follows: Oct 21st, 1932.

Notice of intention to do the work was (was not) submitted on Form SG/101 on Oct 20th, 1932, and approval of the proposed plan was (was not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Drilling commenced

Subscribed and sworn to before me this 25 day of Oct, 1932.

Mary Frouse Deal

NOTARY PUBLIC

My commission expires Jan 10-34

I hereby swear or affirm that the information given above is true and correct.

Name Taber & Coleman

Position for Repollo Oil Co.

Representing

Address Hobbs, N. M. COMPANY OR OPERATOR

Remarks:

T. A. Standliff
Philip Taber

NEW MEXICO STATE LAND OFFICE
OFFICE OF THE STATE GEOLOGIST
SANTA FE, NEW MEXICO

MISCELLANEOUS NOTICES

Submit this notice in triplicate to the State Geologist or proper Oil and Gas Inspector at least five days before the work specified is to begin. A copy will be returned to the sender on which will be given the approval with any modifications considered advisable or the rejection by the State Geologist or Oil and Gas Inspector of the plan submitted. The plan as approved should be followed and work should not begin until approval is obtained.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL			
NOTICE OF INTENTION TO DEEPEN WELL	<input checked="" type="checkbox"/>		

Wink, Texas. April 17, 1935

Mr. K. G. Valle State Geologist,
Santa Fe, N. Mex.

Following is a notice of intention to do certain work as described below at the W. D. Grimes

Well No. 2 in SW/4
of Sec. 28, T. 18S, R. 38E, N. M. P. M.,
Oil Field, Lea County.

DETAILS OF PROPOSED PLAN OF WORK

Deepen well from present total depth of 4223' to approximately 4268'

DUPLICATE

APR 19 1935

Approved _____ 19_____
except as follows:

[Signature]
NAME _____ TITLE _____
Address _____

Repelle Oil Company
COMPANY OR OPERATOR
By [Signature]
Position: District Supt.
Send communications regarding well to
Name L. Barrett
Address Drawer 7, Wink, Texas.

107

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	30	30	Caliche
30	91	61	Sand and Shells
91	95	4	Hard Sand
95	234	139	Sand and Shells
234	1175	941	Sand and Shells
1175	1535	160	Sticky Shale
1535	1425	90	Hard Sand
1425	1510	85	Red Bed
1510	1550	40	Shale and Hard Sand
1550	1600	50	Red Bed
1600	1670	70	Shale and Shells
1670	1730	60	Anhydrite
1730	1740	10	Anhydrite Salt
1740	1750	10	Anhydrite
1750	2660	910	Salt
2660	2870	210	Anhydrite
2870	3285	415	Anhydrite and Lime
3285	3300	15	Sand
3300	3380	80	Anhydrite
3380	3400	20	Sandy Lime
3400	3580	180	Lime and Anhydrite
3580	3680	100	Anhydrite
3680	3850	170	Anhydrite and Lime
3850	4040	190	Lime
4040	4090	50	Lime
4090	4152	62	Sandy Lime
4152	4223	71	Lime (Terry)
			Total depth 4223'.

10-1/8	232'	200	HALLIBURTON	137	40' 24"
10	2710'	700	Halliburton	None	None
6-5/8	4006'	250	Halliburton	None	None

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth Set _____

Adapters—Material _____ Size _____

SHOOTING RECORD

SIZE	SHELL USED	EXPLOSIVE USED	QUANTITY	DATE	DEPTH SHOT	DEPTH CLEANED OUT

TOOLS USED

Rotary tools were used from 0 feet to 4225 feet, and from _____ feet to _____ feet

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

PRODUCTION

Put to producing 12-1, 19 32.

The production of the first 24 hours was 551 barrels of fluid of which 100 % was oil; _____ % emulsion; _____ % water; and _____ % sediment. Gravity, Be _____

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

Rock pressure, lbs. per sq. in. _____

EMPLOYES

J.D. Nabors _____, Driller _____, Driller

Bill Williams _____, 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 so far as can be determined from available records.

Subscribed and sworn to before me this 28th day of November, 19 32 Name Tabert Coleman by Philip Position DRILLING CONTRACTOR

Representing REPOLIO OIL COMPANY Company or Operator.

Notary Public. _____
My commission expires June 22-1934

DUPLICATE

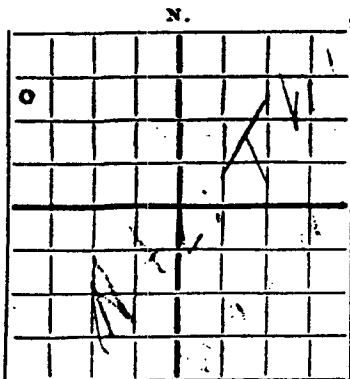
APPROVED AS O. K.
BY [Signature]

NEW MEXICO STATE LAND OFFICE
 Santa Fe, New Mexico
 DEPARTMENT OF THE STATE GEOLOGIST
 NOTICE OF INTENTION TO DRILL NEW WELL

Notice must be given to the State Geologist or to the proper Oil and Gas Inspector 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.

Mr. C. O. Staley, State Geologist. Ranger, Texas, Mexico, Aug. 7th 1930

Dear Sir: You are hereby notified that it is our intention to commence the drilling of a well to be known as W. D. Grimes Well No. 2 in NW 1/4 of Sec. 28 T. 18S, R. 36E, N. M. P. M., Hobbs Oil Field Lea County



The well is 980 feet ~~thru~~ (S.) of North line and 350 feet (E.)

~~thru~~ of East line of Section 28

(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 W. D. Grimes

Address Hobbs, New Mexico

AREA 640 ACRES
 LOCATE WELL CORRECTLY

The lessee is The Prairie Oil & Gas Company Address Ranger, Texas

The elevation of the derrick floor above sea level is _____ feet. We propose to drill well with No. Rotary Ground 3840

Make of Drill _____

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

Size of Casing	Weight Per Foot	New or Second Hand	Depth	Landed or Cemented
<u>12 1/2</u>	<u>80</u>	<u>New</u>	<u>200'</u>	<u>Cement</u>
<u>9 5/8"</u>	<u>32</u>	<u>New</u>	<u>2750'</u>	<u>Cement back to 12 1/2</u>
<u>7"</u>	<u>24</u>	<u>New</u>	<u>3950'</u>	<u>Cement</u>

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 4150 feet.

Additional information:

It is our intention to run 9 5/8" pipe to about 2750' and cement back to bottom of 12 1/2 inch. This will protect the salt section.

Approved Aug 14 1930
 Except as follows:

State Geologist or Oil and Gas Inspector.
R. T. H. ...

Sincerely yours,

THE PRAIRIE OIL AND GAS COMPANY

Company or Operator

By R. E. Randolph

Position General Superintendent

Send communication regarding well to

Name The Prairie Oil & Gas Company

Ranger, Texas.

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

Submit this report in **TRIPLICATE** to the District Office, Oil Conservation Commission, within 10 days after the work specified is completed. It should be signed and filed as a report on Beginning Drilling Operations, Results of test of casing shut-off, result of plugging of well, result of well repair, and other important operations, even though the work was witnessed by an agent of the Commission. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Report by Checking Below

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF PLUGGING WELL		REPORT ON RECOMPLETION OPERATION		REPORT ON (Other) Test For Casing Leaks	X

..... 9 September 1953 Hobbs, New Mexico
(Date) (Place)

Following is a report on the work done and the results obtained under the heading noted above at the

Sinclair Oil & Gas Co. W.D. Grimes
(Company or Operator) (Lease)

..... Well No. 2 in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ of Sec. 28

T. 18, R. 38, NMPM, Hobbs Pool, Lea County.

The Dates of this work were as follows: 8 & 9 September 1953

Notice of intention to do the work (was) (was not) submitted on Form C-102 on 19.....
(Cross out incorrect words)

and approval of the proposed plan (was) (was not) obtained.

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Test all surface connections for possible casing leaks. Threads would not permit a pressure gauge test, however gas was bled off to zero with an estimated original pressure of 125#, with no fluid being present. Opened again in 24 hrs., no gas was present. Test included 15 1/2" and 10 3/4" and 10 3/4" and 7".

Witnessed by John A. Disch Sinclair Oil & Gas Co. Engr.
(Name) (Company) (Title)

Approved: A. G. Stanley
OIL CONSERVATION COMMISSION
(Name)
Engineer District

I hereby certify that the information given above is true and complete to the best of my knowledge.
Name John A. Disch
Position Engr.
Representing Sinclair Oil & Gas Co.

..... JUL 7 1953 Box 1927 Hobbs, New Mexico
(Title) (Date) Address

111 Shell oil
 unit # D

Petroleum Information.

© Copyright Petroleum Information

COUNTY LEA FIELD Hobbs STATE NM
 OPR SHELL OIL CO. API MN 07422
 NO 111 LEASE North Hobbs (Grayburg-San Andres) MAP
Sec 28, T18S, R38E Unit Sec 28 LOC-ORD
990 FNL, 330 FWL of Sec 11-1-21 NM
2 mi NW/Hobbs RESP 12-19-80 CASE 12-27-81

CSC	WELL CLASS: INIT DX FIN DO LSE CODE			
	FORMATION	DATUM	FORMATION	DATUM
15 1/2-280-200 sx				
13-296-200 sx				
10-2703-120 sx				
7-3956-120 sx				
4 1/2-lnr-3914-4234-50 sx				
	TD 4235 (SADR)		PBD	

(Grayburg-San Andres) Perfs 4041-4224 No New Potential

CONTR _____ OPRSELEV 3646 DF sub-s _____

F.R.C. 11-7-81 OWWO
 PD 4235 WO (Grayburg-San Andres)
 (Orig. Repollo Oil Co. #3 Grimes cmp 7-27-34 from
 (Grayburg-San Andres) OH 3956-4210, OTD 4210;
 OWDD & re-cmp 9-26-35 from (Grayburg-San Andres)
 OH 3956-4216, OTD 4216; OWDD by Sinclair Oil &
 Gas Co. & re-cmp 9-2-61 thru (Grayburg-San Andres)
 Perfs 4214-24, OTD 4235)
 11-2-81 TD 4235; Complete
 Perf (Grayburg-San Andres) 4041-4120
 Acid (4041-4224) 6000 gals
 11-7-81 COMPLETION ISSUED

11-1-21 NM
 IC 30-025-70603-81

I.
 II.
 III.
 IV.

DEPARTMENT OF THE STATE GEOLOGIST

Form 86-106

STATE LAND OFFICE
SANTA FE, NEW MEXICO

MISCELLANEOUS REPORTS ON WELLS

Reports should be made within ten days of completing the work indicated and should be submitted in duplicate.

Indicate nature of report by checking.

Notice of intention to drill _____ Notice of intention to change plans _____ Notice of date for test of water shut-off _____ Report on result of test of water shut-off _____ <input checked="" type="checkbox"/> Notice of intention to re-drill or repair well _____ Notice of intention to shoot _____	Subsequent record of shooting _____ Notice of intention to pull or otherwise alter casing _____ Notice of intention to abandon well _____ Supplementary well history _____ Monthly report of operations _____
--	---

Mr. I. A. Stabeliff Wink, Texas. N. Mex. July 13, 1934.
 State Geologist
 Santa Fe, New Mexico.

Following is a report giving the results of work done as indicated above at H. D. Orban

Well No. 3 in 11/4 of Sec. 28 T. 18S R. 30E
 N.M.P.M., Hebbs Oil Field Lee County.

D E T A I L S

State names of and expected depths to objective sands or producing horizon; show sizes, weights, and lengths of casing run or proposed; indicating mudding jobs, cementing points, water horizon, number of days operated, and total depth at end of month, and other important information.

7" OD Casing was cemented with 250 sacks of cement at a depth of 3056,
 on July 6, 1934 pressure test on casing was taken by pump method and
 pressure test was 750 pounds.

DUPLICATE

Approved _____ JUL 16 1934 _____
 (Date)

Company REPOLO OIL COMPANY

I. A. Stabeliff
 (Name)

By J. B. Wells

Title DISTRICT CLERK

Address _____

Title _____
 Address _____

DEPARTMENT OF THE STATE GEOLOGIST

89-108

STATE LAND OFFICE
SANTA FE, NEW MEXICO

MISCELLANEOUS REPORTS ON WELLS

Reports should be made within ten days of completing the work indicated and should be submitted in duplicate.

Indicate nature of report by checking.

Notice of intention to drill <u>10" casing</u>	Subsequent record of shooting _____
Notice of intention to change plans _____	Notice of intention to pull or otherwise alter casing _____
Notice of date for test of water shut-off _____	Notice of intention to abandon well _____
Report on result of test of water shut-off _____	Supplementary well history _____
Notice of intention to re-drill or repair well _____	Monthly report of operations _____
Notice of intention to shoot _____	

Mr. T. A. Stangliff State Geologist
 Santa Fe, New Mexico. Santa Fe, _____ N. Mex. _____

Following is a report giving the results of work done as indicated above at W. D. Grimes

Well No. 5 in NW/4 of Sec. 28 T. 18S R. 32E
 N.M.P.M., Hobbs Oil Field Lee County.

DETAILS

State names of and expected depths to objective sands or producing horizon; show sizes, weights, and lengths of casing run or proposed; indicating mudding jobs, cementing points, water horizon, number of days operated, and total depth at end of month, and other important information.

**10" casing set at 3703'-10" and cemented with 150 sacks.
 Tested pressure 75' points on June 22nd, 1934.**

DUPLICATE

Approved JUL 16 1934 (Date) Company Republic Oil Company
 _____ (Name) By J. Kelle
 _____ (Name) Title District Clerk

NEW MEXICO STATE LAND OFFICE
 Santa Fe, New Mexico
 DEPARTMENT OF THE STATE GEOLOGIST
 NOTICE OF INTENTION TO DRILL NEW WELL

Notice must be given to the State Geologist or to the proper Oil and Gas Inspector 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.

Mr. F. A. Stancliff, State Geologist, Tulsa, Oklahoma N. Mex., May 10, 1934.

Dear Sir: You are hereby notified that it is our intention to commence the drilling of a well to be known as V. D. Grimes Well No. Three (3) in NW 1/4 of Sec 28 T. 10 South, R. 38 East, N. M. P. M., Lea County Oil Field

N.

The well is 990 feet ^(N) of North line and 350 feet (E.)

of West line of NW/4 Section 28
 (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: V. D. Grimes

Address Hobbs, New Mexico

AREA 640 ACRES
 LOCATE WELL CORRECTLY

The lessee is Repelle Oil Company Address Box 221, Tulsa, Oklahoma

The elevation of the derrick floor above sea level is approx 3654 feet. We propose to drill well with No. Rotary

Make of Drill _____

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

Size of Casing	Weight Per Foot	New or Second Hand	Depth	Landed or Cemented
<u>15-1/2"</u>	<u>70#</u>		<u>225'</u>	<u>Cemented - 200 sacks</u>
<u>10"</u>	<u>45#</u>		<u>2710'</u>	<u>Cemented - 120 sacks</u>
<u>6-5/8"</u>	<u>24#</u>		<u>3374</u>	<u>Cemented - 250 sacks</u>

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 4225 feet.

Additional information: _____

DUPLICATE

Approved MAY 24 1934, 19____
 Except as follows: _____

State Geologist or Oil and Gas Inspector

[Signature]

Sincerely yours,
Repelle Oil Company

By [Signature] Company or Operator

Position [Signature]
 Send communication regarding well to

Name Mr. Glen Harrison
 Address Box 1710, Fort Worth, Texas

FORMATION RECORD

FORMATION

FROM	TO	THICKNESS IN FEET	FORMATION
0	304	304	Caliche & Sand
304	327	23	Caliche & Sand
327	1346	1019	Red Bed & hard shells
1346	1446	100	Sand, shale & shell
1446	1632	186	Broken shale & shells
1632	1755	123	Anhydrite & shale
1755	1784	29	Broken Shale
1784	1803	18	Salt
1803	2020	218	Line shells & rock salt
2020	2365	345	Salt
2365	2435	70	Salt & shell
2435	2555	120	Salt
2555	2695	140	Anhydrite & salt
2695	2716	21	Line 10" Set at 2704' and cemented w/150-sacks Tested casing with 750-Lbs. OK.
2716	2760	44	Anhydrite
2760	2857	7	Sand
2857	2928	215	Anhydrite
2928	3111	128	Salt, Anhydrite & Sand Shells
3111	3250	139	Anhydrite
3250	3269	19	Broken Sand - Show Oil
3269	3392	630	Anhydrite
3392	3916	27	Line
3916	4156	240	Line
4156	4190	34	Line OIL
4190	4190	20	Broken Line 7" OD Casing Set at 3956' cemented w/150 sacks. Casing tested for water shut- off. Had 750 lbs. and was OK.

Well started producing July 10, 1934.
and made 42 barrels first hour or an
estimated total of 1020 barrels for
first 24 hours.

IMPORTANT INFORMATION

CASING RECORD

Halliburton
Halliburton
Halliburton

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth Set _____
 Adapters—Material _____ Size _____

SHOOTING RECORD

SIZE	SHELL USED	EXPLOSIVE USED	QUANTITY	DATE	DEPTH SHOT	DEPTH CLEANED OUT

TOOLS USED

Rotary tools were used from Top feet to Bottom feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

PRODUCTION

Put to producing July 10, 19 34

The production of the first ~~24~~ hours was 42 barrels of fluid of which 100 % was oil;
Making an estimated production 1030 barrels for 24 Hours
 emulsion; _____ % water; and _____ % sediment. Gravity, Be _____

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

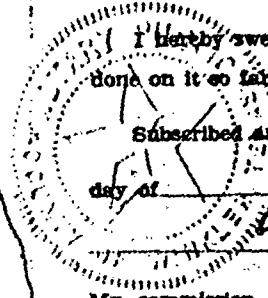
Rock pressure, lbs. per sq. in. _____

EMPLOYES

Jack Phillips Driller Jack Reynolds
H. M. Taylor 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 done on it so far as can be determined from available records.

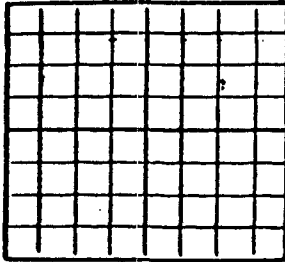


Subscribed and sworn to before me this 14th Name Jack Phillips
 day of July 1934 Position District Clerk
Melvin D. Dear Representing Repelle Oil Comp
 My commission expires Jan _____
 Notary Public _____

DUPLICAT

APPROVED AS O. F.

No copy to



AREA 640 ACRES
LOCATE WELL CORRECTLY

DEPARTMENT OF THE STATE GEOLOGIST

WELL RECORD

Mail to State Geologist, Santa Fe, New Mexico, not more than ten days after completion of well. Indicate questionable data by following it with (?). Submit in duplicate.

Company Repelle Oil Company Address Drawer P, Wink, Texas.

Send correspondence to Le Surratt Address Drawer P, Wink, Texas.

W. D. Grimes Well No. 3 in NE/4 of Sec. 28, T. 18S

R. 18E N. M. P. M., Hobbs Oil Field Lea County.

If State land the oil and gas lease is No. _____ Assignment No. _____

If patented land the owner is W. D. Grimes Address Hobbs, New Mexico

The lessee is Repelle Oil Company Address Box 521, Tulsa, Okla.

If not state or patented land, give status _____

Drilling commenced June 4, 19 34 Drilling was completed July 8, 19 34

Name of drilling contractor Loffland Brothers Address Tulsa, Oklahoma

Elevation above sea level at top of casing _____ feet.

The information given is to be kept confidential until _____ 19 _____

OIL SANDS OR ZONES

No. 1, from 3918' to _____ No. 4, from _____ to _____
 No. 2, from 3960 to 4210 No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

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

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATED		PURPOSE
							FROM	TO	
15"	70#	8th	?	296'	TP				
20"	65#	8th	?	2704'	Flack				
7"OD	150#	8th	Hub'1	1956'	Flack				

NO. _____ HALLIBURTON 124

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

HOBBBS OFFICE 000

MISCELLANEOUS NOTICES

Submit this notice in TRIPLICATE to the District Office, Oil Conservation Commission, Hobbs, N.M. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Notice by Checking Below

NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO TEMPORARILY ABANDON WELL		NOTICE OF INTENTION TO DRILL DEEPER	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO PLUG WELL		NOTICE OF INTENTION TO PLUG BACK		NOTICE OF INTENTION TO SET LINER	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO SQUEEZE		NOTICE OF INTENTION TO ACIDIZE	<input checked="" type="checkbox"/>	NOTICE OF INTENTION TO SHOOT (Nitro)	
NOTICE OF INTENTION TO GUN PERFORATE		NOTICE OF INTENTION (OTHER)		NOTICE OF INTENTION (OTHER) TO PERFORATE	<input checked="" type="checkbox"/>

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Hobbs, New Mexico
(Place)

August 25, 1961
(Date)

Gentlemen:

Following is a Notice of Intention to do certain work as described below at the

Sinclair Oil & Gas Company **W.D. Grimes** Well No. **3** in **D**
(Company or Operator) (Unit)

NW 1/4 NW 28 T. **18S** R. **30E** **Hobbs** Pool
(40-acre Subdivision) (40-acre Subdivision) (40-acre Subdivision) (40-acre Subdivision) (40-acre Subdivision)

Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK
(FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS)

PROPOSE TO: Deepen from present total depth of 4225' to 4235'. Set 4-1/2" 11.65 J-55 liner from 3915' to 4235' & cement with 50 lbs cement. Selective perforate 4-1/2" liner in the San Andres Zone & treat w/500 gallons 15% acid.

Approved _____, 19____
Except as follows:

Approved _____
OIL CONSERVATION COMMISSION

Title _____
District _____

Sinclair Oil & Gas Company
Company or Operator

By Fred Burns

Position **Dist Supt**

Send Communications regarding well to:

Name **Fred Burns**

Address **220 E Broadway, Hobbs, N.M.**

NUMBER OF COPIES RECEIVED	
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FILE	
M.S.G.	
LAND OFFICE	
TRANSPORTER	
PRODUCTION OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS OFFICE 000

(Submit to appropriate District Office as per Commission Rule 7106)

Name of Company **Sinclair Oil & Gas Company** Address **520 East Broadway, Hobbs, N.M.**

Lease **V.D. Grimes** Well No. **3** Unit Letter **D** Section **28** Township **18N** Range **30E**

Date Work Performed **see below** Pool **Hobbs** County **Lea**

THIS IS A REPORT OF: (Check appropriate block)

- Beginning Drilling Operations Casing Test and Cement Job Other (Explain):
- Plugging Remedial Work

Detailed account of work done, nature and quantity of materials used, and results obtained.

8-27-61 Moved in NW (Bartman & Whitcomb), Deepened from 4225 to 4235 w/4" bit. Cemented 311' of 4-1/2" OD IL 44 3-55 casing for liner from 3913-4235. Cemented w/50 lbs cement & 15 gal lyebox & 1/4" float seal per sack. Reversed out 16 hrs. Completed at 12:30 PM 8-27-61. WOB.

8-30-61 Ran Gamma-Rayton log. Jet Perforated 4-1/2" liner 4211-24 w/20 1/2" holes. Ran 2-3/8" OD tag to 4218 w/packer at 4180.

8-31-61 Mud acid washed perfor 4-1/2" gals, Max Press 4200, 5 min SIP 0.

9-2-61 An potential test - ending 6:00 AM 9-2-61, well flowed 64 bbls now 36.0 gravity 421 & 8 hole lead water thru 3/4" choke, Tdg Press 60#, GOR 487 to 1. Final Report.

Witnessed by **W.L. Dixon** Position **Foreman** Company **Sinclair Oil & Gas Company**

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

ORIGINAL WELL DATA

D F Elev. TD **3956** PBD **4225** Producing Interval **3956-4215** Completion Date **7-10-54**

Tubing Diameter **4-1/8"** Tubing Depth **4200** Oil String Diameter **7"** Oil String Depth **3956**

Perforated Interval(s) **Open hole**


Open Hole Interval **3956-4215** Producing Formation(s) **San Andres**

RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover	8-23-61	23	18	0	700	
After Workover	9-2-61	64	31	8 lead water	487	

OIL CONSERVATION COMMISSION

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

Approved by  Name **J. R. Wood**

Title **Engineer District 3** Position **Lea Dist Supt**

Date **SEP 12 1961** Company **Sinclair Oil & Gas Co**

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

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103 -
Supersedes Old
C-102 and C-103
Effective 1-4-65

5a. Indicate Type of Lease
State Fee

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 Sinclair Oil & Gas Company	8. Farm or Lease Name W. D. Grimes
3. Address of Operator P. O. Box 1920, Hobbs, New Mexico, 88240	9. Well No. 3
4. Location of Well UNIT LETTER D 990 FEET FROM THE North LINE AND 330 FEET FROM THE West LINE, SECTION 28 TOWNSHIP 18S RANGE 30E NMPM.	10. Field and Pool, or Wildcat Hobbs (Grayburg San Andres)
15. Elevation (Show whether DF, RT, GR, etc.) 3646' GR	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"/>	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 Squeeze cement, perf. treat same zone <input checked="" 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 type="checkbox"/>

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

Propose To: Set retainer @ 4196' and cement squeeze present perforations 4214' to 4224'. Perforate approximately 4172' to 4182' with 2 shots per. foot. Treat perforations with 250 gals. mud acid, test and recomplete same zone.

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

SIGNED *L. B. ...* TITLE **Area Superintendent** DATE **2-4-65**

APPROVED BY *[Signature]* TITLE **Engineer District 1** DATE **FEB 5 1965**

CONDITIONS OF APPROVAL, IF ANY:

NO. OF COPIES RECEIVED		
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LAND OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

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

5a. Indicate Type of Lease
State Fee

5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUS 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 Sinclair Oil & Gas Company	8. Farm or Lease Name W. D. Grines
3. Address of Operator P. O. Box 1920, Hobbs, New Mexico, 88240	9. Well No. 3
4. Location of Well UNIT LETTER D 990 FEET FROM THE North LINE AND 330 FEET FROM THE West LINE, SECTION 28 TOWNSHIP 18S RANGE 38E NMPM.	10. Field and Pool, or Wildcat Hobbs (Grayburg Sandstones)
15. Elevation (Show whether DF, RT, GR, etc.) 3646 GR	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"/>	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 Squeeze Cement, perf. & acid treat <input checked="" type="checkbox"/>
PLUG AND ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
CHANGE PLANS <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>

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

2-9-65 Set CI Retainer in 4-1/2" liner @ 4196' and squeezed Grayburg perforations 4214' to 4224' w/105 sks. Incor Wt. 14.6# plus 50# Flocal Max. Press. 4000#. WOG 24 hrs.

2-11-65 Bailed hole dry, remained dry 1 hr. Jet perforated Grayburg 4172' to 82' w/20 - 3/8" holes. Ran 2-3/8" tubing and Guberson Packer to 4166' and M.A. washed w/ 250 gallons, Max. Press. 3400#, no break @ 2 EPM. Inst. SIP Vacuum.

2-14-65 On potential test 24 hours ending 12 Noon 2-13-65 pumped Grayburg perms. 4172-82' 32 H2O Grty 35.0, plus 140 HW, GOR: 650/1.

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

SIGNED [Signature] TITLE Superintendent DATE 2-17-65

APPROVED BY [Signature] TITLE Engineer District 1 DATE MAR 19 1965

CONDITIONS OF APPROVAL, IF ANY:
Orig 2cc: OCO, Hobbs, cc: Mr. R. F. Sawyer, cc: file

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LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION
 Original Office O. C. C.
 cc: Regional Office
 cc: file 70 2 56 PM '67

Form C-101
 Revised 1-1-65

5A. Indicate Type of Lease
 STATE FEDERAL

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL <input type="checkbox"/> DEEPEN <input checked="" type="checkbox"/> PLUG BACK <input type="checkbox"/>		7. Unit Agreement Name
b. Type of Well OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. Form or Lease Name W. D. Grimes
2. Name of Operator SINCLAIR OIL & GAS COMPANY		9. Well No. 3
3. Address of Operator P. O. Box 1920, Hobbs, New Mexico 88240		10. Field and Pool, or Wildcat Hobbs Grayburg San And
4. Location of Well UNIT LETTER <u>D</u> LOCATED <u>990</u> FEET FROM THE <u>North</u> LINE AND <u>330</u> FEET FROM THE <u>West</u> LINE OF SEC. <u>28</u> TWP. <u>18S</u> RGE. <u>38E</u> SH4PM		12. County Lea
19. Proposed Depth 4300'		19A. Formation Grayburg San Andres
20. Rotary or C.T. Rotary		
21. Elevations (Show whether DF, RT, etc.) 3646' GR	21A. Kind & Status Plug. Bond In Effect	21B. Drilling Contractor Pool Company
22. Approx. Date Work will start Upon Approval		

23. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP

Present Total Depth 4235'. PBTD 4196'.
 Present production 6 BOPD and 150 BWPD.
 PROPOSE TO: Deepen from present total depth 4235' to approx. 4300'. Cement squeeze perforations 4172-4182' and test casing. Drill to approx. 4280' and run logs if satisfactory. If logs unsatisfactory drill to approx. 4300', acidize w/approx. 2500 gals. acid and tests.

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 FLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed [Signature] Title Superintendent Date 6-28-67

(This space for State Use)

APPROVED BY _____ SIGNED BY ERIC F. ENGBRECHT ENGINEER DISTRICT No. 1 DATE JUN 29 1967

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

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

NEW MEXICO OIL CONSERVATION COMMISSION
Orig & cc: OCC, Hobbs
cc: Regional Office
cc: file

SEP 12 1 22 PM '67

5. Indicate Type of Lease
State Fee
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 PLUS 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 SINCLAIR OIL & GAS COMPANY	8. Farm or Lease Name W. D. Grimes
3. Address of Operator P. O. Box 1920, Hobbs, New Mexico 88240	9. Well No. 3
4. Location of Well UNIT LETTER <u>D</u> <u>990</u> FEET FROM THE <u>North</u> LINE AND <u>330</u> FEET FROM THE <u>West</u> LINE, SECTION <u>28</u> TOWNSHIP <u>18S</u> RANGE <u>38E</u> NMPM.	10. Field and Pool, or Wildcat Hobbs Grayburg San Andres
15. Elevation (Show whether DF, RT, GR, etc.) 3646' GR	12. County Lea

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER <u>Deepen, log, squeeze cement, perf. & test</u> <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.

- 6-30-67 Cement squeezed San Andres perfs. 4172-82' w/21 sks. Incor Class "C" w/1/4# Flo-seal per. sk. Max. Press. 2000#, rev. out 79 sks. WOC 24 hrs.
- 7-1-67 Pressure tested casing & perfs. 4172-4182' w/800#, tested O.K. (800# for 30 mins.)
- 7-8-67 Drilled and cleaned out from 4235 to 4280' Total Depth. 4280
- to 3641
- 7-9-67 -639
- 7-13-67 Acidized San Andres Open-Hole 4234-4280' w/500 gals. N.E. acid Max. Press. 2000#, Min. 5000# @ 1/2 to 2 1/2 BPM, ISIP Vacuum. Tested on pump San Andres Open-Hole 4234-4280' 2 BNO plus 106 BFW, no increase.
- 7-20-67 Ran Gamma-Neutron Acoustic log.
- 7-21-67 Acidized Open-Hole 4254-4280' w/250 gals. 15% acid (N.E.) Max. Press. 1200#, Min. 150# @ 1/2 BP, ISIP 150#, 5 mins. SIP Vacuum.
- 7-22-67 Acidized San Andres Open Hole 4242-4280' w/500 gals. 15% acid N.E. & Sequestering agent, Max. Press. 2100#, Min. 1000# @ 2 BPM ISIP 1700#, 5" SIP Vacuum. No show oil or gas.
- 8-25-67 Cement squeezed San Andres open hole 4234-4280 w/100 sks. Incor Class C 3/4# CFR₂ & 2# salt per sk. slurry wt. 14.8#. Max. Press. 4000#, rev. out 46 sks. PSTD 4166'. WOC 24 hrs. Press. tested casing to 800# for 30 mins. Tested O.K.
- 8-26-67 Jet perforated San Andres 4147-51-54-57-60' w/10 3/8" holes.

(Continued on attached Sheet #2)

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

SIGNED [Signature] TITLE Superintendent DATE 9-11-67

APPROVED BY [Signature] ORIGINAL & THREE COPIES DATE SEP 13 1967
CONDITIONS OF APPROVAL, IF ANY:

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

Form C-105
Revised 10-1-65

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

Original: OCC, Hobbs 12 PM 11/12/67
cc: Regional Office
cc: file

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

1a. TYPE OF WELL
OIL WELL GAS WELL DRY OTHER _____
b. TYPE OF COMPLETION
NEW WELL WORK OVER DEEPEN PLUG BACK DIFF. RESVR. OTHER _____

7. Unit Agreement Name _____
8. Farm or Lease Name
W. D. Grimes

2. Name of Operator
SINCLAIR OIL & GAS COMPANY

9. Well No.
3

3. Address of Operator
P. O. Box 1920, Hobbs, New Mexico 88240

10. Field and Pool, or Wildcat
Hobbs Grayburg San Andres

4. Location of Well
UNIT LETTER D LOCATED 990 FEET FROM THE North LINE AND 330 FEET FROM West

12. County
Lea

THE West LINE OF SEC. 28 TWP. 18S RGE. 38E NMPM

15. Date Started 6-29-67 Date T.D. Reached 7-9-67 17. Date Compl. (Ready to Prod.) 9-3-67 18. Elevations (DF, RKB, RT, GR, etc.) 3646' GR 19. Elev. Casinghead _____

20. Total Depth 4280' 21. Plug Back T.D. 4130' 22. If Multiple Compl., How Many _____ 23. Intervals Drilled By: Rotary Tools 4235-4280' Cable Tools _____

24. Producing Interval(s), of this completion - Top, Bottom, Name
4109-11-14-17-19-21' San Andres 25. Was Directional Survey Made
No

26. Type Electric and Other Logs Run
Gamma Neutron Acoustic Log 27. Was Well Cored
No

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10-3/4"OD	45#	2731'	11-1/2"	150 sks.	
7"OD	24#	3996'	8 1/2"	250 sks.	

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
4-1/2"OD	3913'	4234'	105 sks.		2-3/8" & 2-7/8"OD	4107'	None

31. Perforation Record (Interval, size and number)
4109-11-14-17-19-21' w/12-3/8" holes.

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
<u>4109-21'</u>	<u>1500 gals. 15% IST acid</u>

33. PRODUCTION

Date First Production 9-3-67 Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping 1-3/4" X 4" plunger (tubing pump) Well Status (Prod. or Shut-in) Prod.

Date of Test <u>9-9-67</u>	Hours Tested <u>24 hrs.</u>	Choke Size _____	Prod'n. For Test Period _____	Oil - Bbl. <u>35</u>	Gas - MCF <u>34</u>	Water - Bbl. <u>59</u>	Gas-Oil Ratio <u>960:1</u>
Flow Tubing Press. <u>0</u>	Casing Pressure <u>0</u>	Calculated 24-Hour Rate _____	Oil - Bbl. <u>35</u>	Gas - MCF <u>34</u>	Water - Bbl. <u>59</u>	Oil Gravity - API (Corr.) <u>34.4</u>	

34. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold Test Witnessed By Mr. W. L. Sisson

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.

SIGNED [Signature] TITLE Superintendent DATE 9-11-67

#221 Sheel
West # F

NOTICE OF INTENTION TO DRILL

Notice must be given to the District Office of the Oil Conservation Commission and approval obtained before drilling or recompletion 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 **QUINTUPPLICATE**. One copy will be returned following approval. See additional instructions in Rules and Regulations of the Commission. If State Land submit 6 Copies Attach Form O-128 in triplicate to first 3 copies of form O-101

Midland, Texas
(Place)

January 16, 1959
(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
Sinclair Oil & Gas Company
(Company or Operator)

W. D. Grines
(Lease)

Well No. **2-A**, in **F** (Unit)

The well is located **1910** feet from the **North** line and **1650** feet from the **West** line of Section **28**, T **14S**, R **10E**, NMPM.

(GIVE LOCATION FROM SECTION LINE) **North** Pool, **Lea** County

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

If State Land the Oil and Gas Lease is No.....

If patented land the owner is.....

Address.....

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

The status of plugging bond is **in effect.**

Drilling Contractor **contract not let**

We intend to complete this well in the **San Andres** formation at an approximate depth of **4275'** feet.

CASING PROGRAM

We propose to use the following strings of Casing and to cement them as indicated:

Size of Hole	Size of Casing	Weight per Foot	New or Second Hand	Depth	Sacks Cement
12 1/2" 2 1/4"	10-3/4"	28.52#	New	600'	200
8-3/4"	7"	20#	New	4275'	200

If changes in the above plans become advisable we will notify you immediately.

ADDITIONAL INFORMATION (If recompletion give full details of proposed plan of work.)

JAN 19 1959

Approved _____, 19____
Except as follows:

CEMENT MUST BE CIRCULATED BEHIND

By *[Signature]*

Sincerely yours,

Sinclair Oil & Gas Company
(Company or Operator)

By *[Signature]* (H. L. Brown)

Position **Division Chief, Production Dept.**

Name **H. F. DeFurber**

Box 1470, Midland, Texas

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

HOBBS OFFICE OCC

MISCELLANEOUS NOTICES

Submit this notice in **TRIPPLICATE** to the District Office, Oil Conservation Commission, before the work specified begins. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Notice by Checking Below

NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO TEMPORARILY ABANDON WELL		NOTICE OF INTENTION TO DRILL DEEPER	
NOTICE OF INTENTION TO PLUG WELL		NOTICE OF INTENTION TO PLUG BACK		NOTICE OF INTENTION TO SET LINER	
NOTICE OF INTENTION TO SQUEEZE		NOTICE OF INTENTION TO ACIDIZE		NOTICE OF INTENTION TO SHOOT (NIRO)	
NOTICE OF INTENTION TO GUN PERFORATE		NOTICE OF INTENTION (OTHER)		NOTICE OF INTENTION (OTHER) Surface casing	<input checked="" type="checkbox"/>

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Hobbs, New Mexico
(Place)

January 29, 1959
(Date)

Gentlemen:

Following is a Notice of Intention to do certain work as described below at the

Sinclair Oil & Gas Company W.D. Grimes Well No. 2-A in F
(Company or Operator) Lease (Unit)
SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Sec. 28, T. 18S, R. 38E, NMPM, Hobbs Pool
(40-acre Subdivision)
Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK
(FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS)

PROPOSE TO: Set 10-3/4" CD Casing at 582' with 600 sacks cement.

Approved _____, 19____
Except as follows:

Approved _____
OIL CONSERVATION COMMISSION
By _____
Title _____

Sinclair Oil & Gas Company
Company or Operator
 By W.D. Grimes
 Position Risk Supt.
 Send Communications regarding well to:
 Name C.G. Salter
 Address 520 E Broadway, Hobbs, N.M.

NEW MEXICO OIL CONSERVATION COMMISSION

MISCELLANEOUS REPORTS ON WELLS FEB 2 AM 7:51

(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY Sinclair Oil & Gas Company - 520 East Broadway - Hobbs, New Mexico
 (Address)

LEASE W.D. Grimes WELL NO. 2A UNIT 7 S 23 T 10S R 38E
 DATE WORK PERFORMED As Shown POOL Hobbs

This is a Report of: (Check appropriate block) Results of Test of Casing Shut-off
 Beginning Drilling Operations Remedial Work
 Plugging Other _____

Detailed account of work done, nature and quantity of materials used and results obtained.

- 1-28-59 Spudded 4:30 PM. Jennings Drilling Company
- 1-29-59 Set 581' 10-3/4" OD 32/75# H40 R23S SRT casing & cemented w/600 lbs. Reg. Neat Cement. Cement circulated to surface.
- 1-31-59 Tested 10-3/4" OD casing w/1000# pump pressure before & after drilling cement for 1 hour. No decrease in pressure.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:
 DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____
 Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____
 Perf Interval (s) _____
 Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:	BEFORE	AFTER
Date of Test	_____	_____
Oil Production, bbls. per day	_____	_____
Gas Production, Mcf per day	_____	_____
Water Production, bbls. per day	_____	_____
Gas-Oil Ratio, cu. ft. per bbl.	_____	_____
Gas Well Potential, Mcf per day	_____	_____
Witnessed by _____		
	(Company)	

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

HOBBS OFFICE OCC

MISCELLANEOUS NOTICES

1959 FEB 17

Submit this notice in TRIPPLICATE to the District Office, Oil Conservation Commission, before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Notice by Checking Below

NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO TEMPORARILY ABANDON WELL		NOTICE OF INTENTION TO DRILL DEEPER	
NOTICE OF INTENTION TO PLUG WELL		NOTICE OF INTENTION TO PLUG BACK		NOTICE OF INTENTION TO SET LINER	
NOTICE OF INTENTION TO SQUEEZE		NOTICE OF INTENTION TO ACIDIZE		NOTICE OF INTENTION TO SHOOT (Nitro)	
NOTICE OF INTENTION TO GUN PERFORATE		NOTICE OF INTENTION (OTHER)		NOTICE OF INTENTION to set (OTHER) Production Casg	X

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Hobbs, New Mexico
(Place)

February 17, 1959
(Date)

Gentlemen:

Following is a Notice of Intention to do certain work as described below at the

Sinclair Oil & Gas Co. (Company or Operator) **W.D. Grimes** Well No. **2-A** in **7** (Unit)
SE $\frac{1}{4}$ **NW** $\frac{1}{4}$ of Sec. **28**, T. **18S**, R. **38E**, NMPM., **Hobbs** Pool
 (40-acre Subdivision)
Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK
(FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS)

PROPOSE TO: Set 7" CD Casing at 4240' w/682 sacks cement.

Approved _____, 19____
Except as follows:

Sinclair Oil & Gas Company
Company or Operator

By *W.D. Grimes*
Position **Dist. Supt.**

Approved
OIL CONSERVATION COMMISSION

By *John W. Ramsey*
Geologist

Send Communications regarding well to:

Name **C.C. Galter**
Address **520 E Broadway, Hobbs, N.M.**

COMPANY Sinclair Oil & Gas Company - 520 East Broadway - Hobbs, New Mexico
 (Address)

LEASE W.D. Grimes WELL NO. 2-A UNIT F S 26 T. 18S R. 38E

DATE WORK PERFORMED As Shown POOL Hobbs

This is a Report of: (Check appropriate block)

Results of Test of Casing Shut-off

Beginning Drilling Operations Remedial Work

Plugging Other Acidize - Completion

Detailed account of work done, nature and quantity of materials used and results obtained.

- 2-17-59 Set 4240' 7" OD 20-23# J-55 SS casing @ 4240' w/Baker 2 stage tool @ 2800'. Cemented bottom w/250 sks. & 432 sks. thru 2 stage collar. NOG. Cement circulated to surface.
- 2-19-59 Drilled cement to 4230'. Tested 7" OD casing w/1200# pump pressure 30 min. No decrease in pressure. Perforated 7" OD casing 1/4133 to 4153 w/ 80 1/2" jet shots. Ran 2" UE tbg. to 4172' w/Packer & holddown @ 4082'.
- 2-20-59 Acidized w/500 gal. mud acid. Max. press. 3400. Min. 2500#. Inj. rate 4 bbls. per minute, SIP 700#. On potential test flowed 109 bbls. now 36.2 Gvty oil in 12 hrs. thru 3/4" choke. Tbg. 25#. Gag. - Packer. For a 24 hr. calculated potential of 218 bbls. GOR 640. Calendar day allowable 34 bbls. effective 2-20-59/

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____

Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Perf Interval (s) _____

Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:

	BEFORE	AFTER
Date of Test	_____	_____
Oil Production, bbls. per day	_____	_____
Gas Production, Mcf per day	_____	_____
Water Production, bbls. per day	_____	_____
Gas-Oil Ratio, cu. ft. per bbl.	_____	_____
Gas Well Potential, Mcf per day	_____	_____
Witnessed by _____		

(Company)

OIL CONSERVATION COMMISSION

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

Name [Signature]

Name [Signature]

REQUEST FOR (OIL) - (GAS) ALLOWABLE

HOBBS OFFICE OCS
New Well Completion

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPPLICATE to the same District Office to which Form C-104 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Hobbs, New Mexico February 24, 1959
(Place) (Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

Sinclair Oil & Gas Co. W.D. Grimes, Well No. 2-A, in SE $\frac{1}{4}$ NW $\frac{1}{4}$,
(Company or Operator) (Lease)
F, Sec. 28, T. 18S, R. 38E, NMPM., Hobbs Pool

Lea County. Date Spudded 1-28-59 Date Drilling Completed 2-17-59
Elevation 3646 Total Depth 4240 PBD 4230

Please indicate location:

D	C	B	A
E	F X	G	H
L	K	J	I
M	N	O	P

Top Oil/Gas Pay 3809 Name of Prod. Form. San Andres

PRODUCING INTERVAL -

Perforations 4133-4153

Open Hole _____ Depth _____ Casing Shoe 4240 Depth Tubing SIZE 4172

OIL WELL TEST -

Natural Prod. Test: _____ bbls. oil, _____ bbls water in _____ hrs, _____ min. Size _____

Test After Acid or Fracture Treatment (after recovery of volume of oil equal to volume of load oil used): 109 bbls. oil, 0 bbls water in 12 hrs, 0 min. Size 3/4"

GAS WELL TEST -

Natural Prod. Test: _____ MCF/Day; Hours flowed _____ Choke Size _____

Tubing, Casing and Cementing Record

Size	Feet	Sax
<u>10-3/4</u>	<u>581</u>	<u>600</u>
<u>7</u>	<u>4140</u>	<u>682</u>
<u>2</u>	<u>4172</u>	

Method of Testing (pitot, back pressure, etc.): _____

Test After Acid or Fracture Treatment: _____ MCF/Day; Hours flowed _____

Choke Size _____ Method of Testings: _____

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): Acidized w/900 gals mud acid.

Casing Tubing 2 1/2 Date first new February 20, 1959
Press. packer Press. 254 oil run to tanks

Oil Transporter Atlantic Pipe Line Company

Gas Transporter Phillips Petroleum Company

Remarks: Can be allowed for well # 2 (PFA)

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

Approved FEB 25 1959, 19

Sinclair Oil & Gas Company
(Company or Operator)

OIL CONSERVATION COMMISSION

By: [Signature]
Title Oil & Gas Inspector

By: [Signature]
(Signature)
Title Dist. Supt.
Send Communications regarding well to:
Name C.G. Salter

(Company or Operator)

(Lessee)

Well No. 2-4 in SE $\frac{1}{4}$ of N $\frac{1}{4}$, of Sec. 28, T. 15, R. 36E, NMPM.

Hobbs

Pool,

Lee

County.

Well is 1650 feet from West line and 1980 1910 feet from North line

of Section 28. If State Land the Oil and Gas Lease No. is _____

Drilling Commenced 1/28/59, 1959 Drilling was Completed 2/16/59, 1959

Name of Drilling Contractor Jennings Drilling Company

Address Hobbs, New Mexico

Elevation above sea level at Top of Tubing Head 3,616' The information given is to be kept confidential until _____

_____ 19_____

OIL SANDS OR ZONES

No. 1, from 3,002 to 4,230 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 SHOE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
<u>10-3/4"</u>	<u>32.75</u>	<u>N</u>	<u>581</u>				<u>Surface</u>
<u>7"</u>	<u>28 & 23</u>	<u>N</u>	<u>4,240</u>			<u>4133'-4153'</u>	<u>Production</u>
<u>2-3/8"</u>	<u>4.7</u>	<u>N</u>	<u>4,172</u>				<u>Tubing</u>

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. BAGS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
<u>15"</u>	<u>10-3/4"</u>	<u>582</u>	<u>600</u>	<u>Halliburton</u>		
<u>8-3/4"</u>	<u>7"</u>	<u>4,240</u>	<u>682</u>	<u>"</u>		

RECORD OF PRODUCTION AND STIMULATION

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

Acidized perforations from 4133'-4153' with 500 gallons mud acid.

Result of Production Stimulation Flowed 218 bbls. oil and no water for 24 hours.

Oil & Gas Co. est. PER, HPH, File _____ Date Cleared Out _____

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, N. Mexico

HOBBS OFFICE OCC

1959 MAR 2 PM 1:31

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 QUINTUPPLICATE. If State Land submit 6 Copies

AREA 640 ACRES
LOCATE WELL CORRECTLY

Simclair Oil & Gas Company

W. D. GRUBBS

(Company or Operator)

(Lessee)

Well No. 2-114 in SE $\frac{1}{4}$ of NE $\frac{1}{4}$ of Sec. 28, T. 18S, R. 30E, NMPM.

Hobbs

Pool,

Los

County.

Well is 1650 feet from West line and 1980 1910 feet from North line

of Section 28. If State Land the Oil and Gas Lease No. is _____

Drilling Commenced 1/11, 1959 Drilling was Completed 2/16, 1959

Name of Drilling Contractor Jennings Drilling Company

Address Hobbs, New Mexico

Elevation above sea level at Top of Tubing Head 3,661. The information given is to be kept confidential until _____, 19____.

OIL SANDS OR ZONES

No. 1, from 3,809 to 4,230 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 SOLE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
10-3/4"	31.75	N	581				Surface
7"	20 & 23	N	4,240			4133"-4153"	Production
2-3/8"	4.7	N	4,172				Tubing

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WEEKS SET	NO. BAGS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
10"	10-3/4"	500	600	Ballston		
8-3/4"	7"	4,240	600	"		

RECORD OF PRODUCTION AND STIMULATION

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

NEW MEXICO OIL CONSERVATION COMMISSION

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

5a. Indicate Type of Lease
State Fee

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 Atlantic Richfield Company	8. Farm or Lease Name W.D. Grimes SOC
3. Address of Operator P. O. Box 1978, Roswell, New Mexico 88201	9. Well No. 2-Y
4. Location of Well UNIT LETTER <u>F</u> <u>1910</u> FEET FROM THE <u>North</u> <u>1650</u> LINE AND <u>FILET FROM</u> <u>West</u> <u>28</u> TOWNSHIP <u>18-S</u> RANGE <u>38-E</u> NMPM.	10. Field and Pool, or Wildcat Hobbs-Grayburg/SA
15. Elevation (Show whether DF, RT, GR, etc.) 3646' GR	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 checked="" type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input type="checkbox"/>	OTHER <input type="checkbox"/>

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

Squeezed San Andres perms 4133-4152' w/ 5 sx. Reversed out 25 sx and left 25 sx in 7" casing. Drld out cement to 4238' (PBD). Tested csg w/1500# for 15 min, OK. Perforated w/one 1/2" JSPF 4223-4228' & 4232-4240' (GR_N) = 4222-4227 & 4231-4239' (GR-Corr). Treated perms 4223-4240' w/2000 gallons 15% HCl LSTNE acid. Ran rods & pump, placed well on production. On 7/1/71, well pumped 52 BO, 14 BLW & 2 BFW in 24 hrs. (Prior to remedial work, production averaged 16 BOPD & 67 BWPD).

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

SIGNED [Signature] TITLE Dist. Drlg. Supervisor DATE 7/7/71

APPROVED BY [Signature] TITLE SUPERVISOR DISTRICT DATE JUL 12 1971

CONDITIONS OF APPROVAL, IF ANY:

NO. OF COPIES RECEIVED		
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BY STATE		
BY STATE		
BY STATE		

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes (114)
C-102 and C-103
Effective 1-1-65

30. Indicate Type of Lease
State Per

31. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

DO NOT USE THIS FORM FOR OPERATIONS TO BE CONDUCTED IN A DIFFERENT RESERVOIR.
SEE INSTRUCTIONS FOR DETAILS ON FORM C-103, REV. 1-1-65, PAGE 2.

Oil Well Gas Well Other

Name of Operator

Atlantic Richfield Company

Address of Operator

P. O. Box 1710, Hobbs, New Mexico 88240

Location of Well

UNIT LETTER F 1910 FEET FROM THE North LINE AND 1650 FEET FROM

THE West LINE, SECTION 28 TOWNSHIP 18S RANGE 38E N.M.P.M.

7. Unit Agreement Name

8. Form of Lease Name
W. D. Grimes (SOC)

9. Well No.
2-Y

10. Field and Pool, or Wildcat
Hobbs Grbg SA

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

3646' GR

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

PLUG AND ABANDON

REMEDIAL WORK

ALTERING CASING

TEMPERARILY ABANDON

CHANGE PLANS

COMMENCE DRILLING OPNS.

PLUG AND ABANDONMENT

WELL OR ALTER CASING

CASING TEST AND CEMENT JOB

OTHER Repair Csg Leak

OTHER

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.

TD 4240', PBD 4238'. Perfs 4164-4209', 4223-4240'.
10-3/4" OD csg set @ 582'. Cmtd w/600 sx. Circ to surf.
7" OD csg set @ 4240' & cmtd w/250 sx. DV tool @ 2800' & cmtd w/432 sx. Circ. to surf.

Propose to repair casing leak in the following manner:

1. Rig up, POH w/compl assy, kill well, install BOP.
2. RIH w/RBP & pkr. Test csg & locate hole.
3. Run CBL & repair as indicated by CBL & csg test.
4. POH w/RBP & run compl assy. Turn to production.

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

BY [Signature]

TITLE Dist. Drlg. Supt.

DATE 9/28/77

APPROVED BY [Signature]

TITLE Geologist

DATE SEP 28 1977

CONDITIONS OF APPROVAL, IF ANY:

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U.S.G.S.		
LAND OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

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

3a. Indicate Type of Lease
 State Fee
 3. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR APPLICATIONS TO OIL OR GAS LEASES IN A DIFFERENT RESERVOIR.
 USE APPLICATION FOR PLANT - 1010001011 FOR OIL AND GAS LEASES.)

1. OIL WELL GAS WELL OTHER-

7. Unit Approval Note

2. Name of Operator
Atlantic Richfield Company

8. Name of Lease Holder
W. D. Grimes (SOC)

3. Address of Operator
P. O. Box 1710, Hobbs, New Mexico 88240

9. Well No.
2-Y

4. Location of Well
 UNIT LETTER **F** **1910** FEET FROM THE **North** LINE AND **1650** FEET FROM
 THE **West** LINE, SECTION **28** TOWNSHIP **18S** RANGE **38E** N.M.P.M.

10. Field and Pool, or Field No.
Hobbs Grbg SA

15. Elevation (Show whether DF, RT, CR, etc.)
3646' GR

12. County
Lea

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

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

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any pro. work) SEE RULE 1102.

RU 9/28/77, killed well. POH w/rods & pump, inst BOP & POH w/tbg. RIH w/RBP & pkr on tbg, set RBP @ 1883', tested BP & 7" csg back to surf w/1000#. Found leak in bradenhead. Repl ring gas in wellhead. Installed tbg hd & BOP. Tested wellhead, BOP & 7" OD csg 0-1833' w/1500# 30 mins. Reset RBP @ 3331'. Press tested 7" OD csg 0-3331' to 1000# 30 mins OK. Ran CBL 3310' to surface indicated cmt between 10-3/4" OD csg & 7" OD csg and 7" OD csg & OH 3310' to surface OK. POH w RBP @ 3310'. RIH w/completion assy, put on pump & returned to production.

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

SIGNED [Signature] TITLE Dist. Drlg. Supt. DATE 10/7/77

APPROVED BY Jerry Sexton TITLE Dist 1, Supv. DATE OCT 13 1977

CONDITIONS OF APPROVAL, IF ANY:

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

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes O'
C-102 and C-
Effective 1-1-

5a. Indicate Type of Lease
State Fee
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" IF FORM C-101 FOR SUCH PROPOSALS.

OIL WELL GAS WELL OTHER- **Injector**

7. Unit Agreement Name
N. Hobbs (G/SA) Unit

Name of Operator
SHELL OIL COMPANY

8. Farm or Lease Name
Sec. 28 N. Hobbs (G/SA) Unit

Address of Operator
P. O. BOX 991, HOUSTON, TX 77001

9. Well No.
221

Location of Well
UNIT LETTER **F** **1910** FEET FROM THE **north** LINE AND **1650** FEET FROM
THE **west** LINE, SECTION **28** TOWNSHIP **18S** RANGE **38E** N.M.P.M.

10. Field and Pool, or Wildcat
Hobbs (G/SA)

15. Elevation (Show whether DF, RT, CR, etc.)
3646' GR

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"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER <u>Convert to water injection</u> <input type="checkbox"/>

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

- 9-20-80: Drill new hole 4265'-6310'.
- 9-23-80: Ran GR neutron log-OK from TD 4318'-2318'.
- 9-24-80: Perf'd FA zones #II and IIIU w/4 JSPF 4228-4232' + 4223-4172' Acidized perfs 4172-4232' w/1000 gals 15% NEA acid.
- 10-2-80: Set pkr @4169'. Acidized perfs 4172-4232' w/1000 gals 15% HCl NEA acid.
- 10-4-80: Set pkr @4068'. Well complete.

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

SIGNED A. J. Fore **A. J. FORE** TITLE **SUPERVISOR - REG./PERM.** DATE **OCT 10 1980**

APPROVED BY Les Clements Oil & Gas Insp. TITLE _____ DATE **OCT 14 1980**

Petroleum Information.

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COUNTY **LEA** FIELD **Hobbs** STATE **NM**
 OPER **SHELL OIL CO.** API **MN 07429**
 WI-221 LEASE **North Hobbs (Grayburg-San Andres)** / MAP
 Sec 28, T18S, R38E / Unit Sec 28 **CEMARD**
 1910 FNL, 1650 FWL of Sec **8-4-29 NM**
 Hobbs Townsite **Re SPD-20-80 Re CAP 10-10-80**

CSX
 10 3/4-581-600 SX
 7-4240-432 SX

WELL CLASS: INIT IWD FIN IW LSE CODE			
FORMATION	DATUM	FORMATION	DATUM
ID 4310 (SADR)		PRO	

(Grayburg-San Andres) Perfs & OH 4172-4310 **WATER INJECTION WELL**

CONTR **OPMS 111V 3657 DF** sub-s

F.R.C. 8-22-81 OWDD
 PD 4310 RT (Grayburg-San Andres)
 (Orig. Sinclair Oil & Gas Co., #2-A Grimes,
 W. D., comp 2-20-59 thru (Grayburg-San Andres)
 Perfs 4133-53, OTD 4240, OPB 4230; OWWO by
 Atlantic Richfield Co. & Re-comp. 7-1-71 thru
 (San Andres) Perfs 4223-38, OTD 4240, OPB 4238)
 8-17-81 TD 4310; Complete
 Deepened 4240-4310
 Perf (Grayburg-San Andres) 4172-4223, 4228-32
 Acid (4172-4232) 1000 gals.
 8-22-81 **COMPLETION ISSUED**

8-4-29 NM
 IC 30-025-70432-81

NO. OF COPIES OF
 D. TRIBUTY
 SANT FE
 FILE
 U.S.G.S.
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 TRANSPORTER
 OPERATOR
 I. PRORATION OF
 Operator
SHELL WEST
 Address
200 NORTH D
 Reason(s) for filing
 New Well
 Recompletion
 Change in Ownership

If change of owner and address of pro

II. DESCRIPTION
 Lesse Name
N. HOBBS G/S
 Location
 Unit Letter
 Line of Section

III. DESIGNATION
 Name of Authorize
 Name of Authorize
 If well produces a give location of w

IV. COMPLETION
 Designate T
 Date Spudded
 Elevations (DP, A
 Perforations
 HOI

V. TEST DATA /
 ON. TEST.



20036

Attachment "I"
Aqua, Inc.
French Drive Brine
Plugging Procedure

OPERATOR: Aqua Inc.

WELL: French Drive Brine #1 FIELD: Brine Well

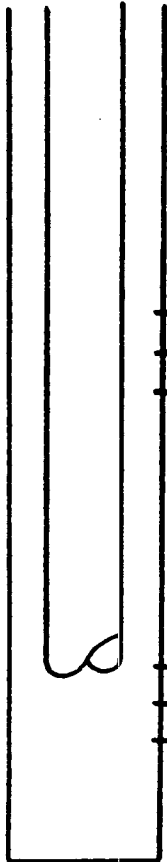
COUNTY: Lea STATE: NM

LOCATION: 1980' FNL & 660' FWL Sec 28, T-18-S, R-38-E

DATE: 2/18/85 ELEV. RKB: 10 GR: 3643 est REV: 0

1. Move in and rig up plugging unit. Unload work string and tally
2. Displace hole and cavity with brine
3. Pull tubing out of hole and run in hole with wire line bridge plug.
4. Set bridge plug at bottom of casing (1700')
5. Run in hole with tubing and set cement plug from 1700' to surface (300 Sacks)
6. Rig down, clean location, move surface equipment (tank battery, loading station, etc.) off location and return ground to original contour.

ATTACHMENT J
Agua, Inc. French Drive Brine
Fracture Calculations



Given: Saturated Brine @ 20°C
 Density = 9.98#/gal
 Hydrostatic Press = .5195 psi/ft

Fresh Water @ 20°C
 Density = 8.33#/gal
 Hydrostatic Press = .433 psi/ft

Test Data From Sandia Labs
 WIPP Site

Salt Section @ 2150'
 Frac Press Min: 1950 psi
 Avg: 2170 psi
 Max: 2300 psi

Perfs @ Top of
 Salt 1740'

Perfs @ Base of
 Salt 2650'

Plug Back TD 2700'

Using Min Frac Press Determine
 Frac Gradient

Frac Gradient =
 $1950 \text{ psi} / 2150 = \underline{0.90698 \text{ psi/ft}}$

Estimate Min Frac Press at 2650' =
 $(.90698 \text{ psi/ft})(2650')$

Min Frac Pressure at 2650' = 2403 psi

Estimate Bottom Hole Pressure
 Using 400 psi Max Injection
 Pressure
 Bottom Pressure =
 $(2650')(.5195 \text{ psi/ft}) + 400 \text{ psi}$

Bottom Hole Press W/ 400 psi
 Max Injection Pressure = 1777 psi

- . Minimum Fracture Pressure is Greater than Maximum
- . . Bottom Hole Pressure. A 400 psi operating pressure
- will produce a bottom hole pressure well below (626 psi)
- the minimum estimated frac pressure.

Attachment "K"

State Engineer Records of
Water Wells Within the
Area of Review

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Byrl Harris Owner's Well No. _____
Street or Post Office Address 9128 Gold
City and State Hobbs, New Mexico 88240

Well was drilled under Permit No. L-7754 and is located in the:

- a. _____ ¼ _____ ¼ SE ¼ NE ¼ of Section 29 Township 18S Range 38E N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor O. R. Musslewhite License No. VD99

Address Box 56 Hobbs, New Mex.

Drilling Began Sept. 8-77 Completed Sept. 14-77 Type tools Cable Size of hole 8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 207 ft.

Completed well is shallow artesian. Depth to water upon completion of well 50 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
55	105	50	Sand & rock	
152	180	28	Sand, consolidated	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
5½	15	8	0	207	207	none	160	200

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received September 21, 1977

Well # 3 at Hobbs - 1-1-251 (1975)

Quad _____ FWL _____ FSL _____

File No. L-7754 Use DTC Location No. 18.38.29.224223

Section 6. LOG OF HOLE

Depth in Feet		Thickness in Feet	Color and Type of Material Encountered
From	To		
0	1	1	Soil & rock
1	27	26	Caliche & rock
27	50	23	Sandy shale
50	105	55	Sand
105	112	7	Sand rock, hard
112	152	40	Sandy shale
152	180	28	Sand, consolidated
180	205	25	Sandy shale, gravel
205	207	2	Shale
			LS Elev <u>3640</u>
			Depth to K <u>2.05</u>
			Elev of K <u>3435</u>
			Loc. No. <u>18.38.29.224223</u>
			Hydro. Survey _____ Field Check <u>FB</u>
			SOURCE OF ALTITUDE GIVEN
			Interpolated from Topo. Sheet _____
			Determined by Inst. Leveling _____
			Other <u>Hobby's Mosaic</u>

Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE ENGINEER OFFICE
ROSWELL, N. M.
77 SEP 21 AM 8 34

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of described hole.

C. R. Musick
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the State Engineer. All questions, except Section 5, shall be answered as completely and accurately as possible. When this form is used as a plugging record, only Section 1(a) and Section 2 need be completed.

STATE ENGINEER OFFICE
WELL RECORD

FIELD OPER. LOG

Section 1. GENERAL INFORMATION

(A) Owner of well Jerry L Brothers Owner's Well No. L-8446
Street or Post Office Address 506 W Copper
City and State Hobbs, N. Mex 88240

Well was drilled under Permit No. L-8446 and is located in the:
a. $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ NE of Section 29 Township 18-S Range 38-E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor C. M. Siffin License No. WD603
Address 201 W Alto Hobbs NM 88240
Drilling Began 5-3-81 Completed 5/7/81 Type tools Spudger Size of hole 10 in.
Elevation of land surface or _____ at well is _____ ft. Total depth of well 120 ft.
Completed well is shallow artesian. Depth to water upon completion of well 42 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
42	120	78	Red Sand	100

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
6 5/8			0	120	120	None	100	120

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
42	120	10	4		Spel. w/ water

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received May 14, 1981 Quad _____ FWL _____ FSL _____
File No. L-8446 Use DOM. Location No. 18.38.29.224

Section 6. LOG OF HOLE

Depth in Feet		Thick in Fe	Color and Type of ial Encountered
From	To		
0	3	3	TOP SOIL
3	24	21	White Caliche Rock
24	42	18	White Rock
42	120	78	Red Sand

Section 7. REMARKS AND ADDITIONAL INFORMATION

81 NOV 17 AM 8 29
 STATE ENGINEER OFFICE
 ROSWELL, N.M.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Orville J. Huff
 Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. Sections 1(a) through 5, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well _____ Owner's Well No. _____
Street or Post Office Address _____
City and State _____

Well was drilled under Permit No. _____ and is located in the:

- a. _____ ¼ _____ ¼ _____ ¼ _____ ¼ of Section _____ Township _____ Range _____ N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor _____ License No. _____

Address _____

Drilling Began _____ Completed _____ Type tools _____ Size of hole _____ in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well _____ ft.

Completed well is shallow artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received **Typed 3/13/78**

Quad _____ FWL _____ FSL _____

File No. _____ Use **011** Location No. **18.38.28.323333**

STATE ENGINEER OFFICE
WELL RECORD

FIELD UNIT LOG

Section 1. GENERAL INFORMATION

(A) Owner of well JERRY L. BERIKY Owner's Well No. L-7826
Street or Post Office Address 2601 WEBENDER
City and State HOBBS N.M. 88240

Well was drilled under Permit No. L-7826 and is located in the:

- a. SW 1/4 NE 1/4 SE 1/4 of Section 29 Township 18-5 Range 38E N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor YUCCA DRILLING CO License No. WD-763
Address 2601 WEBENDER HOBBS N.M. 88240

Drilling Began 1-16-78 Completed 1-16-78 Type tools HAMMER Size of hole 8 1/2 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 110 ft.

Completed well is shallow artesian. Depth to water upon completion of well 45 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
<u>65</u>	<u>110</u>	<u>45</u>	<u>SAND & SANDSTONE</u> <u>Pebbles</u>	<u>35</u>

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
<u>5 5/8</u>	<u>PVC</u> <u>160</u>		<u>0</u>	<u>110</u>	<u>20</u>	<u>NONE</u>	<u>90</u>	<u>110</u>

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
<u>0</u>	<u>110</u>	<u>8 1/2</u>	<u>NONE</u>	<u>NONE</u>	<u>AIR</u>

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

FOR USE OF STATE ENGINEER ONLY

Date Received January 20, 1978

Quad _____ FWL _____ FSL _____

File No. L-7826

Use DOM.

Location No. 18.38.29.223

STATE ENGINEER OFFICE
WELL RECORD

FIELD UGR. LOG

Section 1. GENERAL INFORMATION

(A) Owner of well Big Horn Tank Rental Owner's Well No. _____
Street or Post Office Address 2139 French Dr.
City and State Hobbs, NM 88240

Well was drilled under Permit No. L-8867 and is located in the:

- a. $\frac{1}{4}$ $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 29 Township 18S Range 38E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Larry's Drilling License No. WD882

Address 2601 W. Bender Hobbs, NM 88240

7-9-82 7-10-82

Drilling Began _____ Completed _____ Type tools button bit Size of hole 8 $\frac{1}{2}$ in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 120 ft.

Completed well is shallow artesian. Depth to water upon completion of well 52 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
<u>60</u>	<u>108</u>	<u>48</u>	<u>sand & sandstone</u>	<u>28</u>

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
<u>5$\frac{1}{2}$</u>	<u>160PVC</u>		<u>0</u>	<u>120</u>	<u>120</u>		<u>100</u>	<u>120</u>

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

FOR USE OF STATE ENGINEER ONLY

Date Received August 23, 1982 Quad _____ FWL _____ FSL _____

File No. L-8867 Use D & S Location No. 18.38.29.22244

Section 6. LOG OF HOLE

Depth in Feet		Thickness in Feet	Color and Type of Material Encountered
From	To		
0	27	27	<i>caliche</i>
27	33	6	<i>gray clay</i>
33	35	2	<i>hard red rock</i>
35m	47	12	<i>sand</i>
47	63	16	<i>sand & sandstone</i>
63	67	4	<i>hard red rock</i>
67	108	41	<i>sand & sandstone</i>
108	120	12	<i>hard red rock</i>

Section 7. REMARKS AND ADDITIONAL INFORMATION

JUG 23 0 33 AM '02
STATE ENGINEER
FRED BLUM

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Larry Simpson
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well _____ Owner's Well No. _____
Street or Post Office Address _____
City and State _____

Well was drilled under Permit No. _____ and is located in the:

- a. _____ ¼ _____ ¼ _____ ¼ _____ ¼ of Section _____ Township _____ Range _____ N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor _____ License No. _____

Address _____

Drilling Began _____ Completed _____ Type tools _____ Size of hole _____ in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well _____ ft.

Completed well is shallow artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received Typed 3/13/78

Quad _____ FWL _____ FSL _____

File No. _____ Use 011 Location No. 18.38.28.31100

Depth in Feet		Thickness in Feet	Color and Type of Material Encountered
From	To		
0	13		Surface
13	26		Caliche
26	31		Lime shell
31	58		Brown sand
58	80		Water sand - hole full water
80	103		Brown sand
103	108		Lime
108	115		Sand water
115	150		Brown sand, lime shell
150	165		Sand water
165	197		Red sand, shale
197	203		Red shale
203	210		Brown sand
210	1500		Shale, red bed
1500	1545		Shale, shells
1545	1625		Shale
1625	1720		Shale, anhydrite

Section 7. REMARKS AND ADDITIONAL INFORMATION

This well record is an excerpt from Oil Conservation Commission files at Hobbs, N.M.

Location: 18.38.28.31100

Elevation: 3649' DF.

Owner: Shell Oil Co.

Grimes #2

Record of Casing: 12 1/2" - 238'8"
9 5/8" - 2751'

Rotary

2310' FSL - 330' FWL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 6 need be completed.

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well _____ Owner's Well No. _____
Street or Post Office Address _____
City and State _____

Well was drilled under Permit No. _____ and is located in the:

- a. _____ ¼ _____ ¼ _____ ¼ _____ ¼ of Section _____ Township _____ Range _____ N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor _____ License No. _____

Address _____

Drilling Began _____ Completed _____ Type tools _____ Size of hole _____ in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well _____ ft.

Completed well is shallow artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received Typed 3/14/78

Quad _____ FWL _____ FSL _____

File No. _____ Use 011 Location No. 18.38.28.14300

Depth in Feet		Thickness in Feet	Color and Type of Material Encountered
From	To		
0	30		Caliche
30	91		Sand, shells
91	95		Hard sand
95	1175		Sand, shells
1175	1335		Sticky shale
1335	1425		Hard sand
1425	1510		Red bed
1510	1550		Shale, hard sand
1550	1600		Red bed
1600	1670		Shale and shells
1670	1730		Anhydrite
			L S Elev _____ <u>3664</u> ?
Water --	30' - 232'		Depth to K _____ Trc <u>32</u> ?
	1355' - 1425'		Elev of K _____ Trc <u>32</u> ?

Section 7. REMARKS AND ADDITIONAL INFORMATION

This well record is an excerpt from Oil Conservation Commission files at Hobbs, N.M.

Location: 18.38.28.14300
 Owner: Sinclair Oil & Gas
 Grimes #2

Elevation: 3654' TC

Record of Casing: 15½" - 233'
 10" - 2702'

Rotary

NE 1/4 28-18-28 corrected to --
 1650' FWL - 2310' ENL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 2 need be completed.

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A' and Section 5 need be completed.

Section 1

(A) Owner of well Crazy E. Hobbs
 Street and Number Star Route B
 City State New Mexico
 Well was drilled under Permit No. L-3160 and is located in the
SW 1/4 SE 1/4 NE 1/4 of Section 29 Twp. 13 S Rge. 38 E
 (B) Drilling Contractor Abbott Bros. License No. WD-46
 Street and Number Box 637
 City Hobbs State New Mexico
 Drilling was commenced March 30 1956
 Drilling was completed March 30 1956

(Plat of 640 acres)

Elevation at top of casing in feet above sea level Total depth of well 119
 State whether well is shallow or artesian Shallow Depth to water upon completion 45

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	50	119	69	Water Sand
2				
3				
4				
5				

Section 3 RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5 PLUGGING RECORD

Name of Plugging Contractor License No.
 Street and Number City State
 Tons of Clay used Tons of Roughage used Type of roughage
 Plugging method used Date Plugged 19
 Plugging approved by: Cement Plugs were placed as follows:

No.	Depth of Plug		No. of Sacks Used
	From	To	

Basin Supervisor

FOR USE OF STATE ENGINEER ONLY

Date Received MAY 7 1956

OFFICE
GROUND WATER SUPERVISOR
ROSWELL, NEW MEXICO

File No. Y-3160 Use Sam Location No. 14-38-28-113

Depth in Feet		Thickness in Feet	Color	Type of Material Encountered
From	To			
0	2	2		Soil
2	18	16		Caliche
18	30	12		Sand & Gravel
30	50	20		Sand
50	119	69		Water Sand

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

18-35-28-173

Well Driller

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well _____ Owner's Well No. _____
Street or Post Office Address _____
City and State _____

Well was drilled under Permit No. _____ and is located in the:

- a. _____ ¼ _____ ¼ _____ ¼ _____ ¼ of Section _____ Township _____ Range _____ N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor _____ License No. _____

Address _____

Drilling Began _____ Completed _____ Type tools _____ Size of hole _____ in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well _____ ft.

Completed well is shallow artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received **Typed 3/13/78** Quad _____ FWL _____ FSL _____

• File No. _____ Use **011** Location No. **18.38.28.13300**

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well _____ Owner's Well No. _____
Street or Post Office Address _____
City and State _____

Well was drilled under Permit No. _____ and is located in the:

- a. _____ ¼ _____ ¼ _____ ¼ _____ ¼ of Section _____ Township _____ Range _____ N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor _____ License No. _____

Address _____

Drilling Began _____ Completed _____ Type tools _____ Size of hole _____ in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well _____ ft.

Completed well is shallow artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received Typed 3/13/78

Quad _____ FWL _____ FSL _____

File No. _____ Use 011 Location No. 18.38.28.12400

STATE ENGINEER OFFICE
WELL RECORD

WELL FROM LOG

Section 1. GENERAL INFORMATION

(A) Owner of well Kelley-Coppedge Owner's Well No. _____
Street or Post Office Address 109 N. Park
City and State Hobbs, NM 88240

Well was drilled under Permit No. L-8485 and is located in the:

- a. 1/4 NW 1/4 NW 1/4 NW 1/4 of Section 28 Township 18-S Range 38-E N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Larry's Drilling License No. 11882

Address 2601 W. Bender Hobbs, NM 88240

Drilling Began 6-11-81 Completed 6-13-81 Type tools tricone Size of hole 9 1/2 in.
120

Elevation of land surface or _____ at well is _____ ft. Total depth of well _____ ft.

Completed well is shallow artesian. Depth to water upon completion of well 61 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
70	110	40	sand and sandstone	25

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
5 1/2	160 PVC		0	120	120		100	120

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received June 26, 1981

Quad _____ FWL _____ FSL _____

File No. L-8485 Use DTC Location No. 18.38.28.113334

Section 6. LOG OF HOLE

Depth in Feet		Thickn in Fee	Color and Type of Material Encountered
From	To		
0	1	1	topsoil
1	40	39	caliche
40	60	20	sand
60	70	10	hard rock gray
70	110	40	sand and sandstone
110	120	10	hard gray rock

Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE ENGINEER
ROSWELL, NM

JUN 26 8 36 AM '81

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.


Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to appropriate district office of the State Engineer. A copy of this form, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 2 need be completed.

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Abbott Bros. Owner's Well No. _____
Street or Post Office Address P.O. Box 637
City and State Hobbs, New Mexico 88240

Well was drilled under Permit No. L-8192 and is located in the:

- a. ^{NE} ~~NW~~ NW ~~NW~~ NW $\frac{1}{4}$ of Section 28 Township 18S Range 38E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Abbott Bros. License No. WD-46

Address P.O. Box 637, Hobbs, New Mexico 88240

Drilling Began 12/11/79 Completed 12/13/79 Type tools Cable Size of hole 8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 175 ft.

Completed well is shallow artesian. Depth to water upon completion of well 61 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
61	175	114		

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
7	21	Welded	0	175	175	None	65	175

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received December 28, 1979

Quad _____ FWL _____ FSL _____

File No. L-8192 Use DTC Location No. 18.38.28.112331

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1

(A) Owner of well Hobbs Gas Co.
 Street and Number Box 2226
 City Hobbs, State New Mexico
 Well was drilled under Permit No. L-3312 and is located in the
NE 1/4 NW 1/4 NE 1/4 of Section 28 Twp. 18S Rge. 38E
 (B) Drilling Contractor O. R. Musslewhite License No. WD99
 Street and Number Box 56
 City Hobbs, State New Mexico
 Drilling was commenced Nov. 28, 1956
 Drilling was completed Nov. 29, 1956

(Plat of 640 acres)

Elevation at top of casing in feet above sea level _____ Total depth of well 108
 State whether well is shallow or artesian Shallow Depth to water upon completion 45

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	85	108	23	Sand & sand rock
2				
3				
4				
5				

Section 3 RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
6 5/8	13	None	0	108	108	None	78	108

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5 PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
 Street and Number _____ City _____ State _____
 Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
 Plugging method used _____ Date Plugged _____ 19____

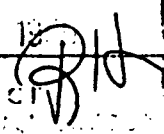
Plugging approved by: _____

Cement Plugs were placed as follows:

No.	Depth of Plug		No. of Sacks Used
	From	To	

Basin Supervisor _____

FOR USE OF STATE ENGINEER ONLY

Date Received DEC 3 1956

 STATE ENGINEER
 ASHLEY, NEW MEXICO

File No. L-3312 Use Dom. Location No. 18.38.28.112



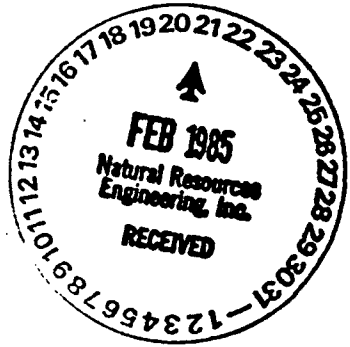
STATE OF NEW MEXICO

STATE ENGINEER OFFICE

ROSWELL

February 20, 1985

S. E. REYNOLDS
STATE ENGINEER



DISTRICT II
808 E. 2nd STREET
P.O. BOX 1717
ROSWELL, NEW MEXICO 88201

J.T. Janica, Jr.
Natural Resources Engineering, Inc.
201 E. Sanger
Hobbs, New Mexico 88240

Dear Sir:

Pursuant to your request by letter dated February 19, 1985, please find enclosed photocopies of all drillers logs on record with this office for the area about which you have inquired. If you require additional information or have some questions pertaining to the forwarded materials, feel free to contact this office.

Please remit \$10.80 (54 pages x .20 per page) payable to this office to cover photocopy costs.

Sincerely,

Art Mason
Field Engineering Unit

AM/tmg
Enclosures
cc Santa Fe

STATE ENGINEER OFFICE
WELL RECORD

111-111-111

Section 1. GENERAL INFORMATION

(A) Owner of well Hobbs Diesel, Inc. Owner's Well No. _____
Street or Post Office Address P.O. Box 2465
City and State Hobbs, New Mexico 88240

Well was drilled under Permit No. L-8009 and is located in the:

- a. _____ ¼ _____ ¼ NW ¼ NW ¼ of Section 28 Township 18S Range 38E N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Abbott Bros. License No. WD-46

Address P.O. Box 637, Hobbs, New Mexico 88240

Drilling Began 1/15/79 Completed 1/20/79 Type tools Cable Size of hole 8½ in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 167 ft.

Completed well is shallow artesian. Depth to water upon completion of well 60 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
60	167	107	Sand	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
7	18	Welded	0	167	167	None	71	167

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received February 22, 1979

Quad _____ FWL _____ FSL _____

Section 6. LOG OF HOLE

Depth in Feet		Thickness in Feet	Color and Type of Material Encountered
From	To		
0	4	4	Topsoil
4	8	4	Rock
8	24	16	Caliche
24	88	64	Sand
88	106	18	Sand W/rock ledges
106	120	14	Rock
120	165	45	Sand W/some rock
165	167	2	Red bed
			LS Elev _____ 3640
			Depth to K _____ Trc 165
			Elev of K _____ Trc 3475
			Loc. No. 18.38.28.111312
			Hydro. Survey _____ Field Check CAC-JCH
			SOURCE OF ALTITUDE GIVEN
			Interpolated from Topo. Sheet 3640
			Determined by Inst. Leveling _____
			Other _____

Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE ENGINEER OFFICE
 ROSWELL, N. M.
 FEB 22 AM 8 08

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Murrell Abbott
 Driller H.B

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to appropriate district office of the State Engineer. A copy of this form should be submitted to the appropriate district office as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 2 need be completed.

STATE ENGINEER OFFICE
WELL RECORD

FIELD EXAM. LOG

Section 1. GENERAL INFORMATION

(A) Owner of well Tommy Corp. Owner's Well No. L-8191
Street or Post Office Address 2125 French Dr. P. O. Box 778
City and State Hobbs, N.M. 88240

Well was drilled under Permit No. _____ and is located in the:

- a. SE NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ _____ of Section 29 Township 18 South Range 38 East N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Greenwood License No. WD-826
Greenwood Water Well Service
Address Star Route C Box 300 Hobbs, N.M. 88240

Drilling Began 1/05/80 Completed 1/20/80 Type tools 10"2 Bit Size of hole 11 in.
Elevation of land surface or _____ at well is 0 ft. Total depth of well 120 ft.
Completed well is shallow artesian. Depth to water upon completion of well 120 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
0	28'	28'	Limestone	None
28	65	37'	Sand - surface water	Mudded off
65	120	55'	Sand rock	50 Gal

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
6"	90	Plastic	0	120	120	Gravel pack	90	120

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
28'	65'	11"	5	None	Dropped

Section 5. PLUGGING RECORD

Plugging Contractor None
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received January 15, 1981

Quad _____ FWL _____ FSL _____

File No. L-8191 Use DTC Location No. 18.38.29. 22424

Section 6. LOG OF HOLE

Depth in Feet		Thickn in Fe	Color and Type of .ial Encountered
From	To		
			See Other Side

Section 7. REMARKS AND ADDITIONAL INFORMATION

81 JUL 15 AM 9 30
 STATE ENGINEER OFFICE
 NORMAN, N.M. OFFICE

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Leo J. [Signature]
 Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 7 need be completed.

STATE ENGINEER OFFICE
WELL RECORD

FIELD ERROR LOG

Section 1. GENERAL INFORMATION

(A) Owner of well Tommy McDaniels Owner's Well No. _____
Street or Post Office Address P.O. Box 778
City and State Hobbs, NM 88240

Well was drilled under Permit No. L-8860 and is located in the:

- a. 1/4 1/4 N1/2 1/4 NE 1/4 of Section 29 Township 18S Range 38E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Larry's Drilling License No. WD882

Address 2601 W. Bender Hobbs, NM

Drilling Began 12-12--83 Completed 12-12-83 Type tools tricone Size of hole 83/4 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 130 ft.

Completed well is shallow artesian. Depth to water upon completion of well 39 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
<u>123</u>	<u>130</u>	<u>7</u>	<u>sand & sandstone</u>	<u>30</u>

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
<u>5 1/2</u>	<u>160PVC</u>		<u>-1</u>	<u>130</u>	<u>130</u>		<u>110</u>	<u>130</u>

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

FOR USE OF STATE ENGINEER ONLY

Date Received December 16, 1983 Quad _____ FWL _____ FSL _____

Section 6. LOG OF HOLE

Depth in Feet		Thickness in Feet	Color and Type of Material Encountered
From	To		
0	1	1	topsoil
1	19	18	soft caliche
19	24	5	hard red rock
24	32	8	caliche
32	36	4	sand
36	39	3	caliche
39	43	4	red rock
43	118	75	sand & thin layers of sandstone
118	123	5	hard white rock
123	130	7	sand & sandstone

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Gregg S. Hansen
Driller

INSTRUCTIONS: This form is to be executed in triplicate, preferably typewritten, and submitted to appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled for public development. When this form is used for public development, only Section 1(a) and Section 3 need be completed.

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Norman Williams Owner's Well No. _____
Street or Post Office Address 3030 Lanehart
City and State Hobbs, ND 88240

Well was drilled under Permit No. ~~WD882~~ L-8370 and is located in the:

a. NE SE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 29 Township 18S Range 38E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Larry's Drilling License No. WD882

Address 2601 W. Bender Hobbs, ND 88240

Drilling Began 10-20-80 Completed 10-21-80 Type tools tricone Size of hole 12 1/4 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 120 ft.

Completed well is shallow artesian. Depth to water upon completion of well 60 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
70	110	40	sand and sandstone	m 25

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
5 5/8	160PVC	PVC	0	120	120	none	100	120

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received October 31, 1980

Quad _____ FWL _____ FSL _____

Section 6. LOG OF HOLE

Depth in Feet		Thickness in Feet	Color and Type of Material Encountered
From	To		
0	1	1	topsoil
1	40	39	caliche
40	60	20	sand
60	70	10	hard rock gray
70	110	40	sand and sandstone
110	120	10	hard gray rock

Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE ENGINEER OFFICE
 ROSWELL, N.M.
 1980 OCT 31 AM 8 27

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Randy Zellers
 Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 2 need be completed.

STATE ENGINEER OFFICE
WELL RECORD

FIELD BOOK 100

Section 1. GENERAL INFORMATION

(A) Owner of well Dow Cottrell Owner's Well No. _____
Street or Post Office Address 400 Cottrell
City and State Hobbs, New Mexico, 88240

Well was drilled under Permit No. L-8228 and is located in the:

- a. SE $\frac{1}{4}$ ~~X~~ NE $\frac{1}{4}$ of Section 29 Township 18S Range 38E N.M.P.M.
NE $\frac{1}{4}$
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Oldaker's and Son's License No. WD-657
Address P. O. Box 2321, Hobbs, New Mexico, 88240

Drilling Began 3/10/80 Completed 3/11/80 Type tools rotary Size of hole 10 $\frac{1}{2}$ in.
Elevation of land surface or 3650 at well is 3650 ft. Total depth of well 115 ft.
Completed well is shallow artesian. Depth to water upon completion of well 68 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
68	115	47	Water, Sand	25 GPM

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
6 5/8			0	115	115	none	105	115

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
		10 $\frac{1}{2}$			

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

Section 6. LOG OF HOLE

Depth in Feet		Thickness in Feet	Color and Type of Material Encountered
From	To		
0	3	3	Top Soil
3	28	25	Caliche
28	33	5	Hard Brown Rock
33	43	10	Sand
43	51	8	Hard Brown Rock
51	115	64	Sand
115			

Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE ENGINEER OFFICE
 ROSWELL, N.M.
 AUG 28 AM 7 59

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Gade O. Baker
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 2 need be completed.

STATE ENGINEER OFFICE
WELL RECORD

FIELD ENGR. LOG

Section 1. GENERAL INFORMATION

(A) Owner of well N. E. WILLIAMS Owner's Well No. L-7839
Street or Post Office Address 2601 W. BENDER
City and State HOBBS N.M. 88240

Well was drilled under Permit No. L-7839 and is located in the:

- a. $\frac{1}{4}$ $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 29 Township 18 Range 38E N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in LEA County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor YALUCA DRILLING CO. License No. WD-763
Address 2601 W. BENDER HOBBS N.M. 88240

Drilling Began 2-19-78 Completed 2-19-78 Type tools HAMMER Size of hole 8 1/2 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 120 ft.

Completed well is shallow artesian. Depth to water upon completion of well 60 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
<u>60</u>	<u>120</u>	<u>60</u>	<u>SAND + SANDSTONE</u> <u>PEBBLES</u>	<u>45</u>

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
<u>5 5/8</u>	<u>PVC 160</u>		<u>0</u>	<u>120</u>	<u>20</u>		<u>100</u>	<u>120</u>

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
<u>0</u>	<u>120</u>	<u>8 1/2</u>			<u>AIR</u>

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

FOR USE OF STATE ENGINEER ONLY

Date Received February 27, 1978

Quad _____ FWL _____ FSL _____

File No. L-7839 Use DOM Location No. 18.38.29.240

From	To	Thickness in Feet	Color and Type of Material Encountered
0	2	2	TOP SOIL
2	35	32	CALICHE
35	50	15	SAND & SANDSTONE PEBBLES
50	60	10	CALICHE MAT
60	120	60	SAND & SANDSTONE PEBBLES

Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE ENGINEER OFFICE
 ROSWELL, N.M.
 FEB 27 AM 8 22

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Alton D. Gulberg
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office the State Engineer. All questions, except Section 5, shall be answered as completely and accurately as possible when any well is filled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 2 need be completed.

STATE ENGINEER OFFICE
WELL RECORD

FIELD INSTR. LOG

Section 1. GENERAL INFORMATION

(A) Owner of well J. D. Whesehant Owner's Well No. _____
Street or Post Office Address 3010 Lanehart
City and State Hobbs, N. M. 88240

Well was drilled under Permit No. L-8135 and is located in the:

- a. 1/4 SE 1/4 NE 1/4 of Section 29 Township 18 S Range 38 E N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor G. D. Oldaker License No. W D657

Address P. O. Box 2321

Drilling Began 8-15-79 Completed 8-18-79 Type tools Cable Size of hole 9 in.

Elevation of land surface or 3650 at well is 3650 ft. Total depth of well 130 ft.

Completed well is shallow artesian. Depth to water upon completion of well 62 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
62	130	68	Water and Sand	25 GPM

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
7			0	130	130	None	110	130

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
		9			

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received September 23, 1980 Quad _____ FWL _____ FSL _____

File No. L-8135 Use DOM. Location No. 18.38.29.24

STATE ENGINEER OFFICE
WELL RECORD

FIELD ENGR. LOG

Section I. GENERAL INFORMATION

(A) Owner of well Daniel Sage Owner's Well No. _____
 Street or Post Office Address 400 Cottrell Lane
 City and State Hobbs, N.M., 88240

Well was drilled under Permit No. L-8737 and is located in the:

a. SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 29 Township 18 Range 38 N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

Section 6. LOG OF HOLE

Depth in Feet		Thickness in Feet	Color and Type of Material Encountered
From	To		
0	2	2	Top Soil
2	17	15	Caliche
17	42	25	Gray Soil
42	44	2	Sand Stone
44	130	86	Water Sand
130			

STATE ENGINEER OFFICE
WELL RECORD

FIELD ENGR. LOG

Section 1. GENERAL INFORMATION

(A) Owner of well Max White Owner's Well No. _____
Street or Post Office Address 500 Cottrell
City and State Hobbs, New Mexico, 88240

Well was drilled under Permit No. L-8229 and is located in the:

- a. NW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ _____ of Section 29 Township 18S Range 38E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Oldaker's and Son's License No. WD-657

Address P. O. Box 2321, Hobbs, New Mexico, 88240

Drilling Began 3/8/80 Completed 3/9/80 Type tools rotary Size of hole 10 1/2 in.

Elevation of land surface or 3650 at well is 3650 ft. Total depth of well 115 ft.

Completed well is shallow artesian. Depth to water upon completion of well 68 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
68	115	47	Water, Sand	25 GPM

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
6 5/8			0	115	115	none	105	115

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
		10 1/2			

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received August 28, 1980 Quad _____ FWL _____ FSL _____

File No. L-8229 Use DOM. Location No. 18.38.29.241

Section 6. LOG OF HOLE

Depth in Feet		Thick- to F	Color and Type of Material Encountered
From	To		
0	3	3	Top Soil
3	28	25	Caliche
28	33	5	Hard Brown Rock
33	43	10	Sand
43	51	8	Hard Brown Rock
51	115	64	Sand
115			

Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE ENGINEER OFFICE
ROSWELL N.M.
 80 AUG 28 AM 7 50

STATE ENGINEER OFFICE
ROSWELL N.M.
 20 SEP 2 AM 8 14

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Gade Oldaker
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 3 need be completed.

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well _____ Owner's Well No. _____
Street or Post Office Address _____
City and State _____

Well was drilled under Permit No. _____ and is located in the:

- a. _____ ¼ _____ ¼ _____ ¼ _____ ¼ of Section _____ Township _____ Range _____ N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor _____ License No. _____

Address _____

Drilling Began _____ Completed _____ Type tools _____ Size of hole _____ in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well _____ ft.

Completed well is shallow artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received Typed 3/14/78

Quad _____ FWL _____ FSL _____

File No. _____ Use 011 Location No. 18.38.29.24100

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1

(A) Owner of well _____
 Street and Number _____
 City _____ State _____
 Well was drilled under Permit No. _____ and is located in the
 _____ 1/4 _____ 1/4 _____ 1/4 of Section _____ Twp. _____ Rge. _____
 (B) Drilling Contractor _____ License No. _____
 Street and Number _____
 City _____ State _____
 Drilling was commenced _____ 19____
 Drilling was completed _____ 19____

(Plat of 640 acres)

Elevation at top of casing in feet above sea level _____ Total depth of well _____
 State whether well is shallow or artesian _____ Depth to water upon completion _____

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1				
2				
3				
4				
5				

Section 3 RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5 PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
 Street and Number _____ City _____ State _____
 Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
 Plugging method used _____ Date Plugged _____ 19____
 Plugging approved by: _____ Cement Plugs were placed as follows:

No.	Depth of Plug		No. of Sacks Used
	From	To	

Basin Supervisor _____
FOR USE OF STATE ENGINEER ONLY
 Date Received _____
 1970 OCT 15 AM 10:36

Section 6

LOG OF WELL

Depth in Feet		Thickness in Feet	Color	Type of Material Encountered
From	To			
0	15	15	White	Caliche
15	50	35	Brown	Sand Rock
50	55	5	Brown	Hard Sand Rock
55	130	75	Brown	porous Sand Rock

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.


 Well Driller

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Norman L. Williams Owner's Well No. _____
Street or Post Office Address 804 Princess Jeanne
City and State Hobbs, New Mexico 88240

Well was drilled under Permit No. L-7432 and is located in the:

- a. $\frac{1}{4}$ $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 29 Township 18S Range 38E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Abbott Bros. License No. WD-46
Address P.O. Box 637, Hobbs, New Mexico 88240

Drilling Began 9/24/75 Completed 9/26/75 Type tools Cable Size of hole 8 in.
Elevation of land surface or _____ at well is _____ ft. Total depth of well 125 ft.
Completed well is shallow artesian. Depth to water upon completion of well 55 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
55	125	70	Sand	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
6 5/8	23	10	0	125	125	NONE	75	125

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
					Cement at top.

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received _____

Quad _____ FWL _____ FSI _____

File No. 1-1/23 Use 2017 Location No. 16-38-22-27911

Section 6. LOG OF HOLE

Depth in Feet		Thickness in Feet	Color and Type of Material Encountered
From	To		
0	30	30	Caliche Rock
30	60	30	Sand dry
60	110	50	Sand
110	115	5	Rock
115	125	10	Sand

Section 7. REMARKS AND ADDITIONAL INFORMATION

75 SEP 29 AM 8 40
STATE ENGINEER OFFICE
ROSWELL, N. M.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Murrell Abbott
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. A copy of this form, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

STATE ENGINEER OFFICE
WELL RECORD

100-100-100

Section 1. GENERAL INFORMATION

(A) Owner of well N. E. Williams Owner's Well No. _____
Street or Post Office Address 600 East Stanolind Rd.
City and State Hobbs, New Mexico 88240

Well was drilled under Permit No. L-7434 and is located in the:

- a. $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 29 Township 18S Range 38E N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Abbott Bros. License No. WD-46

Address P.O. Box 637, Hobbs, New Mexico 88240

Drilling Began 9/28/75 Completed 9/30/75 Type tools Cable Size of hole 8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 125 ft.

Completed well is shallow artesian. Depth to water upon completion of well 55 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
55	125	70	Sand	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
6 5/8	23	Welded	0	125	125	None	75	125

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
					Cement at top.

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received _____

Quad _____ FWL _____ FSL _____

File No. 0-7434 Use DOM Location No. 18-28-29-31-134

Section 6. LOG OF HOLE

Depth in Feet		Thickne in Fee	Color and Type of al Encountered
From	To		
0	4	4	Topsoil
4	25	21	Caliche
25	34	9	Rock
34	55	21	Sand-dry
55	95	40	Sand
95	105	10	Rock
105	125	20	Sand

Section 7. REMARKS AND ADDITIONAL INFORMATION

75 OCT 8 AM 8 38
 STATE ENGINEER OFFICE
 ROSWELL, N.M.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Murrell Abbott
 Driller N.B.

INSTRUCTIONS: This should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. Sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

He Lost His Papers

Revised June 1972

STATE ENGINEER OFFICE
WELL RECORD

NEW YORK

Section 1. GENERAL INFORMATION

(A) Owner of well LARRY Felkins Owner's Well No. _____
Street or Post Office Address 1707 Oriole
City and State Hobbs N.M.

Well was drilled under Permit No. L-7673 and is located in the:

a. NE 1/4 NE 1/4 NE 1/4 NE 1/4 of Section 29 Township 18 S Range 38 E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor T J Stone License No. WD-576

Address 707 NW AVE H Seminole Tex

Drilling Began 2-5-78 Completed 2-10-78 Type tools CABLE Size of hole 10 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 125 ft.

Completed well is shallow artesian. Depth to water upon completion of well 50 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
60	85	25	white sand	50
85	125	40	BROWN SAND	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
6 5/8	20	weld.	✓	✓	25	Home Made	100	125

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received May 31, 1978

Quad _____ FWL _____ FSL _____

Section 6. LOG OF HOLE

Depth in Feet		Thickness in Feet	Color and Type of Material Encountered
From	To		
0	1	1	Brown soil
1	25	24	Chalky white
25	60	35	sandstone white
60	85	25	white sand
85	125	40	Brown sand

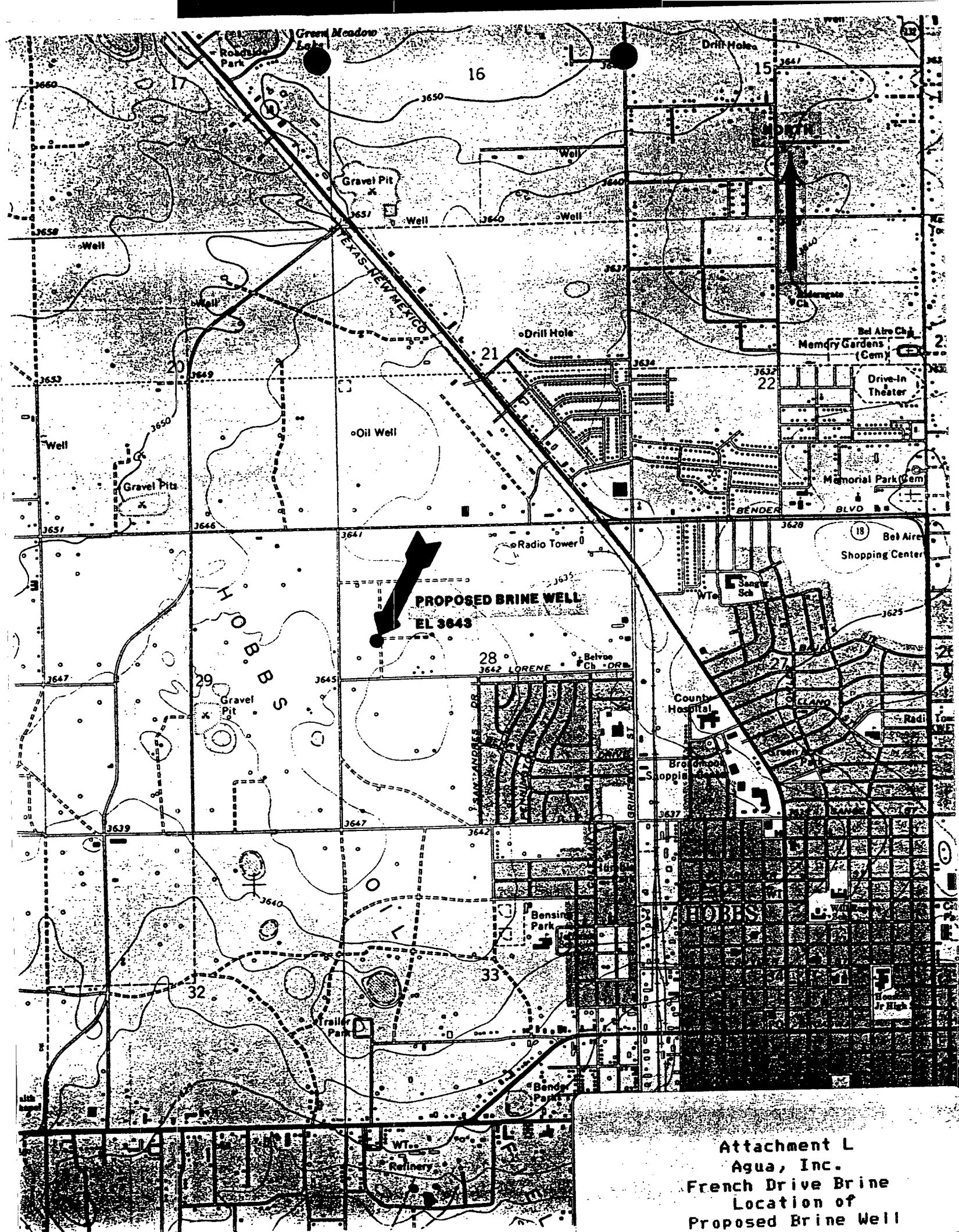
Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE ENGINEER OFFICE
 ALBUQUERQUE, N. M.
 78 MAR 31 AM 8 14

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

T. J. Stone
 Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.



Attachment L
Agua, Inc.
French Drive Brine
Location of
Proposed Brine Well

Attachment "M"

Plugging Bond

STATE OF NEW MEXICO

Revised 6-17-77

\$50,000.00 BLANKET PLUGGING BOND

BOND NO. 4356142
(For Use of Surety Company)

(Note: File with Oil Conservation Commission, P. O. Box 2088, Santa Fe 87501)

KNOW ALL MEN BY THESE PRESENTS:

That AGUA, INC. ~~XXXXXXXXXXXXXXXXXXXX~~
(a corporation organized in the State of New Mexico, with its principal office in the city of Hobbs, State of New Mexico, and authorized to do business in the State of New Mexico), as PRINCIPAL, and Hartford Accident & Indemnity Company, a corporation organized and existing under the laws of the State of Connecticut, and authorized to do business in the State of New Mexico, as SURETY, are held firmly bound unto the State of New Mexico, for the use and benefit of the Oil Conservation Commission of New Mexico pursuant to Section 65-3-11, New Mexico Statutes Annotated, 1953 Compilation, as amended, in the sum of Fifty Thousand Dollars (\$50,000.00) lawful money of the United States, for the payment of which, well and truly to be made, said PRINCIPAL and SURETY hereby bind themselves, their successors and assigns, jointly and severally, firmly by these presents.

The conditions of this obligation are such that:

WHEREAS, The above principal has heretofore or may hereafter enter into oil and gas leases, or carbon dioxide (CO₂) gas leases, or helium gas leases with the State of New Mexico; and

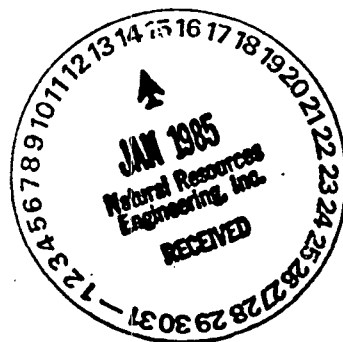
WHEREAS, The above principal has heretofore or may hereafter enter into oil and gas leases, or carbon dioxide (CO₂) gas leases, or helium gas leases on lands patented by the United States of America to private individuals, and on lands otherwise owned by private individuals; and

WHEREAS, The above principal, individually, or in association with one or more other parties, has commenced or may commence the drilling of wells to prospect for and produce oil or gas, or carbon dioxide (CO₂) gas or helium gas, or does own or may acquire, own or operate such wells, or such wells started by others on land embraced in said State oil and gas leases, or carbon dioxide (CO₂) gas leases, or helium gas leases, and on lands patented by the United States of America to private individuals, and on lands otherwise owned by private individuals, the identification and location of said wells being expressly waived by both principal and surety hereto.

NOW, THEREFORE, If the above bounden principal and surety or either of them or their successors or assigns, or any of them, shall plug all of said wells when dry or when abandoned in accordance with the rules, regulations, and orders of the Oil Conservation Commission of New Mexico in such way as to confine the oil, gas, and water in the strata in which they are found, and to prevent them from escaping into other strata;

THEN, THEREFORE, This obligation shall be null and void; otherwise and in default of complete compliance with any and all of said obligations, the same shall remain in full force and effect.

PROVIDED, HOWEVER, That thirty (30) days after receipt by the Oil Conservation Commission of New Mexico of written notice of cancellation from the surety, the obligation of the surety hereunder shall terminate as to property or wells acquired, drilled, or started after said thirty (30) day period but shall continue in effect, notwithstanding said notice, as to property or wells theretofore acquired, drilled, or started.



AGUA, INC.

PRINCIPAL

Box 1978, Hobbs, New Mexico 88240

Address

By W.G. Abbott
W.G. Abbott Signature
President Title

HARTFORD ACCIDENT & INDEMNITY COMPANY
SURETY

P.O. Box 1258, Hobbs, New Mexico 88240

Address

By Pat Cargile
Pat Cargile Attorney-in-Fact

(Note: Principal, if corporation, affix corporate seal here.)

(Note: Corporate surety affix corporate seal here.)

ACKNOWLEDGMENT FORM FOR NATURAL PERSONS

STATE OF _____)
COUNTY OF _____) ss.

On this _____ day of _____, 19____, before me personally appeared _____, to me known to be the person (persons) described in and who executed the foregoing instrument and acknowledged that he (they) executed the same as his (their) free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

Notary Public
My Commission expires _____

ACKNOWLEDGMENT FORM FOR CORPORATION

STATE OF New Mexico)
COUNTY OF Lea) ss.

On this 5th day of December, 1977, before me personally appeared W. G. Abbott, to me personally known who, being by me duly sworn, did say that he is President of AGUA, INC. and that the foregoing instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

My Commission Expires February 13, 1978
My Commission expires _____
Ann D. Janica
Notary Public

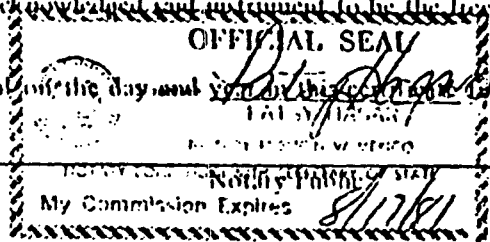
ACKNOWLEDGMENT FORM FOR CORPORATE SURETY

STATE OF New Mexico)
COUNTY OF Lea) ss.

On this 5th day of December, 1977, before me appeared Pat Cargile, to me personally known, who, being by me duly sworn, did say that he is Attorney-In-Fact of Hartford Accident & Indemnity Company and that the foregoing instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

My Commission expires _____
(Note: Corporate surety attach power of attorney.)



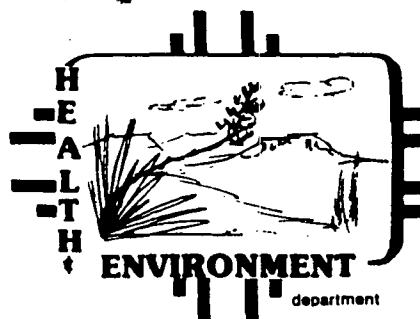
APPROVED BY:
OIL CONSERVATION COMMISSION OF NEW MEXICO

By _____

Date _____

TONY ANAYA
GOVERNOR

DENISE D. FORT
DIRECTOR



STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION

P.O. Box 968, Santa Fe, New Mexico 87504-0968
(505) 984-0020

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

December 13, 1985

R.W. Abbott
Agua Inc.
PO Box 1978
Hobbs, NM 88240

Re: Approval of Discharge Plan DP-387.

Dear Mr. Abbott:

The **discharge plan DP-387 for the French Drive Brine station**, located in the NW 1/4 of Section 28, T18S R38E, northwest of the city of Hobbs, in Lea County, New Mexico, **is hereby approved**. The approved discharge plan consists of:

- 1) the discharge plan application submitted on May 8, 1985, containing most of the information required under Part 5 of the New Mexico Water Quality Control Commission (WQCC) regulations;
- 2) the discharge plan addendum submitted July 22, 1985, consisting of monitoring commitments, details of the means of spill prevention and containment at the facility, additional information on the hydrogeology of the Triassic formations at the site, and the background chemistry of the ground water most likely to be affected by operations at the brine station;
- 3) the bond submitted on August 12, 1985;
- 4) an amendment to the original plan, submitted on August 26, 1985, consisting of plans for drilling a new brine extraction well rather than carrying out a workover of an abandoned oil well, as originally proposed; and
- 5) the discharge plan addendum of December 9, 1985, containing revised monitoring commitments and a contingency plan in the event of a loss of mechanical integrity of the well.

The discharge plan was submitted pursuant to Section 5-101.B.3. of the WQCC regulations. It is approved pursuant to Section 3-109. Please note subsections 3-109.E. and 3-109.F. which provide for possible future amendment of the plan. Please be advised that the approval of this plan does not relieve you of liability should your operation result in actual pollution of surface or ground waters which

may be actionable under other laws or regulations. Please note also that any action taken by Agua Inc. to correct a ground water contamination incident at the French Drive Brine Station, or to prevent the movement of fluid through the Repollo Grimes No. 5 well bore or any other perforation, shall be subject to approval by the EID before being put into effect.

The monitoring and reporting shall be as specified in the above-referenced materials. These requirements are summarized on the attached sheet. Any inadvertent omissions from this summary of a discharge plan monitoring or reporting requirement shall not relieve you of responsibility for compliance with that requirement.

Please be aware that in this discharge plan you have made commitments which are legally enforceable under the New Mexico Water Quality Act. These include constructing all aspects of your installation as designed and completely fulfilling all monitoring commitments on schedule. You are susceptible to fines should you not fulfill these obligations.

Pursuant to subsection 3-109.G.4., this plan approval is for a period of five years. This approval will expire on December 13, 1990, and you should submit an application for renewed approval in ample time before that date, incorporating those materials you have agreed to supply as a condition of renewal.

Thank you for your cooperation, and that of your consultant, during this discharge plan review process.

Sincerely,



Ernest Rebuck
Bureau Chief
Ground Water/Hazardous Waste Bureau

ER:PGM:pgm

cc: John Guinn, EID District IV Manager

MONITORING AND REPORTING FORM

ALL ELANKS MUST BE COMPLETED.

CHECK ALL APPLICABLE BOXES

DISCHARGE PLAN NUMBER: 387

ORIGINAL DP: X

SIC NUMBER: _____

ORIG. DP PEND. APPROV: _____

RENEWAL: _____

RENEWAL PEND: _____

MODIFICATION: _____

MODIFICATION PENDING: _____

NAME OF FACILITY: Agua, Inc. French Drive Brine Station

LOCATION OF FACILITY: ON FRENCH DRIVE IN NORTHWEST HOBBS

ALTERNATE OR PAST NAME OF FACILITY: ---

CITY OR CLOSEST TOWN: Hobbs USGS QUAD: _____

COUNTY: Lea TWP: 18S RGE: 38E SEC: 28

CONTACT PERSON: Thornton, James TITLE: Engineer
LAST NAME FIRST NAME

ADDRESS OF CONTACT PERSON: Agua, Inc./P.O. Box 1978/Hobbs, New Mexico 88241

TELEPHONE: 393-6188

TYPE OF FACILITY: brine facility

MEANS OF DISCHARGE (LAGOON, LEACH FIELD, OTHER -SPECIFY): _____

injection well and surface tanks

REVIEWER: (CURRENT) Morgan, Paige
LAST NAME FIRST NAME

DATE APPROVED: 12/13/85 DATE OF EXPIRATION: 12/13/90

MONITORING REQ: (COMMENT, IF NECESSARY, ON BACK)

SAMPLING SITE OR ID	STORET CODE (SAMP. SITE)	PARAMETER(S)	DATE DUE
------------------------	-------------------------------	--------------	----------

injection well		casing pressure test	30 days after well completion
injection well		total water injected; total brine extracted	December 15 annually beginning 1986
monitor well		TDS, Cl	December 15 annually beginning 1986

E I D B U C K S L I P

CHECK ONE:

LETTER TO Agua, Inc
for Rebeck's signature

MEMO TO _____

PRESS RELEASE

OTHER

SUBJECT: discharge plan approval

DRAFTED BY: Patsy Morgan _____ (Date)

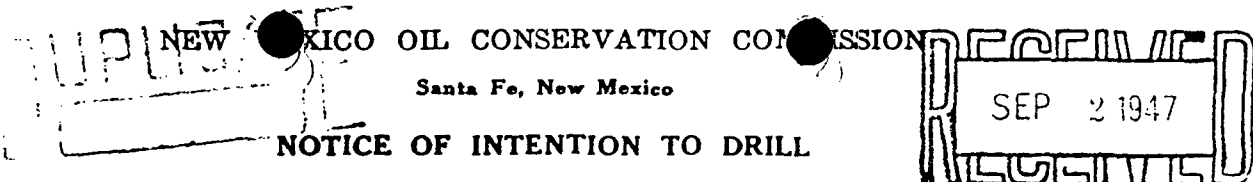
CONCURRENCES:

NAME:	INITIAL	DATE REC'D	DATE APPROVED
<u>Ken Conrad</u> Sect. Mgr.	<u>KC</u>	<u>12/12/85</u>	<u>12/12/85</u>
<u>Ernest Rebeck</u> Bur. Chief	<u>ER</u>	<u>12/12/85</u>	<u>12/13/85</u>
<u>Richard Holland</u> Dep. Dir.	_____	_____	_____
<u>Denise Fort</u> Director	_____	_____	_____

FINAL DECISION NEEDED BY 12/13/85 BECAUSE _____
(date)
so as not to reprint -

COMMENTS BY DRAFTER OR REVIEWER(S):

Pretty straightforward discharge plan
for a brine extraction well. This
outfit jumped through all our hoops
before beginning construction - we must
be getting the word out to the brine
well guys.



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 changes in gas or oil instructions in Rules and Regulations of the Commission.

Repollo Oil Company

Tulsa, Oklahoma

August 29, 1947

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

Repollo Oil Company

W. D. Grimes

Well No. 5

in SE NE

Company or Operator

Lease

of Sec. 28, T. 18S

R. 36E

N. M. P. M.

Hobbs

Field,

Lea

County

N

The well is 660 feet (N.) ~~cross~~ of the South line and 660 feet

(E.) ~~of~~ of the West line of SE NE

(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 Geo lit attached

Address

If government land the permittee is

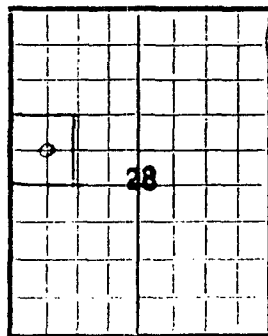
Address

The lessee is Repollo Oil Company

Address P.O. Box 521 - Tulsa, Oklahoma

We propose to drill well with drilling equipment as follows:

Rotary



AREA 640 ACRES

LOCATE WELL CORRECTLY

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:

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
	7-5/8"			425'	Cemented	200 sacks
	7"			3175'	"	600 "

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 3250' feet.

Additional information:

Approved SEP 2 1947, 19

except as follows:

to be cemented back to top of sub sections on 7" or oil string

OIL CONSERVATION COMMISSION,

By Roy Yambrough

Title

OIL & GAS INSPECTOR

Sincerely yours,

REPOLLO OIL COMPANY

Company or Operator

By Dana H. Kelsoy

Dana H. Kelsoy

Position

Vice-President

Send communications regarding well to

Name

REPOLLO OIL COMPANY

Address

P.O. Box 521 - Tulsa, Oklahoma

TRIPPLICATE

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

RECEIVED
OCT 21 1947
RECEIVED
HOBBS OFFICE

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS	<input checked="" type="checkbox"/>	REPORT ON REPAIRING WELL	<input type="checkbox"/>
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL	<input type="checkbox"/>	REPORT ON PULLING OR OTHERWISE ALTERING CASING	<input type="checkbox"/>
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	<input type="checkbox"/>	REPORT ON DEEPENING WELL	<input type="checkbox"/>
REPORT ON RESULT OF PLUGGING OF WELL	<input type="checkbox"/>		<input type="checkbox"/>

October 13th, 1947

Hobbs, New Mexico

Date

Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the _____

Repollo Oil Company W. D. Grimes Well No. 5 in the
Company or Operator Lease

NW of Sec. 28, T. 18S, R. 38E, N. M. P. M.,

Bowere Field, Lea County.

The dates of this work were as follows: 10/13/47

Notice of intention to do the work was (~~written~~) submitted on Form C-102 on _____ 19____

and approval of the proposed plan was (~~written~~) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

COMMENCED DRILLING 6:00 APM OCTOBER 13th.

Witnessed by Mr. J. D. Hendrick
Name

Clay & Gackle
Company

Driller
Title

Subscribed and sworn before me this 13th

I hereby swear or affirm that the information given above is true and correct.

day of Oct., 19 47

Name W. B. P. Hayes

[Signature]
Notary Public

Position Dist. Supt.

Representing Repollo Oil Co.
Company or Operator

My commission expires 2-4-50

Address Hobbs, E. Mex.

Remarks:

APPROVED

Date OCT 21 1947

[Signature]
OIL & GAS INSPECTOR
Name
Title

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

RECEIVED
OCT 21 1947
HOBBS OFFICE

DUPLICATE

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	XX	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

Oct. 16, 1947

Hobbs, New Mexico

Date

Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the _____

Repollo Oil Company W.D. Grines Well No. 5 in the _____
Company or Operator Lease

NW of Sec. 28, T. 183, R. 38E, N. M. P. M.,
Howers Field, Lea County.

The dates of this work were as follows: 10/14/47

Notice of intention to do the work was (~~was~~) submitted on Form C-102 on 10/14/47 19____
and approval of the proposed plan was (~~was~~) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Tested 9 5/8"OD Casing set @ 441 Ft. w/ 500# Pump Pressure for 30 Min. Tested OK,
@ 8:00 AM Oct. 16th.

Witnessed by Mr. Lee Durham Clay & Gackle Driller
Name Company Title

Subscribed and sworn before me this 16th I hereby swear or affirm that the information given above is true and correct.

day of Oct., 19 47 Name W.D. Grines

Position Dist. Supt.

Representing Repollo Oil Co.
Company or Operator

My commission expires 2-4-50 Address Hobbs, N. Mex.

Remarks:

APPROVED

OCT 21 1947

Roy Zankowich W.D. Grines
Name

OIL & GAS INSPECTOR

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

MISCELLANEOUS NOTICES

RECEIVED
OCT 21 1947

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	<input checked="" type="checkbox"/>	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	<input type="checkbox"/>
NOTICE OF INTENTION TO CHANGE PLANS	<input type="checkbox"/>	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	<input type="checkbox"/>
NOTICE OF INTENTION TO REPAIR WELL	<input type="checkbox"/>	NOTICE OF INTENTION TO PLUG WELL	<input type="checkbox"/>
NOTICE OF INTENTION TO DEEPEN WELL	<input type="checkbox"/>		<input type="checkbox"/>

Hobbs, New Mexico,
Place

Oct. 15th, 1947
Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the _____
Repollo Oil Company W.D. Grimes Well No. 5 in NW
Company or Operator Lease
of Sec. 28, T. 18S, R. 38E, N. M. P. M., Bowers Field
Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

To set $\frac{1}{2}$ 437 Ft. of 9 5/8" OD Casing @ 441 Ft. and cement w/ 300 Sks. Common Cement by Halliburton @ 9:00 PM 14th. WOC

Will Drill Plug & Test in 36 hours.

Approved _____, 19____
except as follows: CSI 21 1947

Repollo Oil Company
Company or Operator

By W.B. Rhee

Position Dist. Supt.
Send communications regarding well to

Name W.B. Rhee

Address Hobbs, N.M.

OIL CONSERVATION COMMISSION,
By Harry Wankersmith
Title OIL & GAS INSPECTOR

Orig. No. office

To Get in Schedule

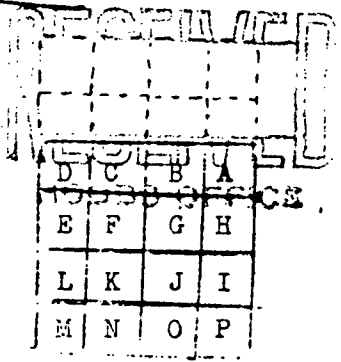
cc: oil Co.

2 cc - CSR

cc - file

Place Hobbs New Mexico

Date 10-30-47



Glenn Staley
Proration Office
Hobbs, New Mexico.

Designate UNIT well is located in
XX * 31

NOTICE OF COMPLETION OF: (Lease) GRIMES, J. d. Well No. Five
6601 feet from South line: 660 feet from East line;
Section 23 Township 13 Range 33.

DATE STARTED 10-13-47
DATE COMPLETED 10-30-47
ELEVATION 3653
TOTAL DEPTH S.L. 3231
CABLE TOOLS _____ ROTARY TOOLS y

CASING RECORD

SIZE 9 5/8" DEPTH 437 SAX CEMENT 300
SIZE 7" DEPTH 3183 SAX CEMENT 600
SIZE _____ DEPTH _____ SAX CEMENT _____

TUBING RECORD

SIZE 2" CE DEPTH 3220

ACID RECORD

NO. GALS _____ None
NO. GALS _____
NO. GALS _____

SHOT RECORD

NO. QTS. _____ None
NO. QTS. _____
NO. QTS. _____

FORMATION TOPS

Anhydrite 1620
Top Salt 1730
Base Salt _____
Red Sand _____
Brown Lime 2850
White Lime _____
Oil or Gas Pay 3222
Water _____

Initial Production Test 60 Bbl. in 24 Pumping _____ Flowing y
Test After Acid or Shot _____

Initial GAS VOLUME _____

SCHEDULE NO. _____ DATE Nov. 1, 1947

PIPE LINE TAKING OIL Atlantic Pipe Line Co.

REMARKS _____ COMPANY Repollo Oil Company

SIGNED BY: [Signature]

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

MISCELLANEOUS NOTICES

RECORDED
INDEXED
HOBBS NEW MEXICO

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified begins. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	<input checked="" type="checkbox"/>	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL			

Hobbs New Mexico

Oct, 22, 1947

Place

Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is notice of intention to do certain work as described below at the _____ 5 _____ N.M.

Company or Operator 185 385 Well No. 50675 in _____
of Sec. 104, T. _____, R. _____, N. M. P. M., _____ Field.
_____ County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

to set 3185' of 7" OD casing - 3185 ft below surface and cement with 600 sacks Toro Com, Cement by Daliburton 11-24-47.

will test plug in 36 hours.

Approved _____, 19____
except as follows:

Repollo Oil Company

By [Signature]
Company or Operator
Dist. Supt.

Position _____
Send communications regarding well to

Name Hobbs New Mexico

Address _____

OIL CONSERVATION COMMISSION,
By [Signature]
Title _____

DUPLICATE

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

RECEIVED
DEC 12 1947
RECEIVED
HOBBS OFFICE

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	xx	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

October, 26, 1947

Hobbs New Mexico

Date

Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the _____

Repolla Oil Company

H. D. Grimes #

Well No. 5

in the _____

Company or Operator

Lease

NW

of Sec. 28

T. 18S

R. 33E

N. M. P. M.,

Bowers

Field,

Lea

County.

The dates of this work were as follows: 10-23-47 and 10-24-47

Notice of intention to do the work was (~~was not~~) submitted on Form C-102 on Oct, 22, 1947

and approval of the proposed plan was (was not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED .

Tested 7" OD Casing set at 3185' below surface with 1200# pump pressure for 30 minutes. Tested OK, 10- 26-47.

Witnessed by <u>Lee Durham</u>	<u>Clay & Gackle</u>	<u>Driller</u>
Name	Company	Title

Subscribed and sworn before me this 26 th

I hereby swear or affirm that the information given above is true and correct.

day of October, 1947

Name [Signature]

Position Dist. Supt

[Signature]
Notary Public

Representing Repollo Oil Company
Company or Operator

My commission expires 2- 4 - 50

Address Hobbs New Mexico

Remarks: APPROVED

Date: DEC 1 1947

[Signature]
Name
OIL & GAS INSPECTOR

Title

2" UE 47 RT 288 RT 3200

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHODS USED	MUD GRAVITY	AMOUNT OF MUD USED
13"	9-5/8	441	300	Haliburton		
9"	7"	3185	800	do		

PLUGS AND ADAPTERS

Heaving plug—Material..... Length..... Depth Set.....
 Adapters — Material..... Size.....

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT
6'x4"	1	Nitro	30 qts	11-2	3220-3212	3222

Results of shooting or chemical treatment. Increased production from 3 to 10 bbls

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 3222 feet, and from..... feet to..... feet
 Cable tools were used from..... feet to..... feet, and from..... feet to..... feet

PRODUCTION

Put to producing 11-1-1947, 19.....
 The production of the first 24 hours was 60 bbls barrels of fluid of which 96% was oil; 0.1% emulsion; % water; and % sediment. Gravity, Be. 39.48°
 If gas well, cu. ft. per 24 hours..... Gallons gasoline per 1,000 cu. ft. of gas.....
 Rock pressure, lbs. per sq. in.....

EMPLOYEES

C. B. Riggs, Driller Bill Clark, Driller
 Lee Durham, Driller A. M. Pierce, 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 so far as can be determined from available records.

Subscribed and sworn to before me this..... day of 9th December, 1947
[Signature]
 Notary Public

Hobbs New Mexico 12-9-47
 Name *[Signature]*
 Position Dist. Supt
 Representing Repelle Oil Company
 Address Hobbs New Mexico

My Commission expires 2-4-50

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	25	25	Caliche
25	177	87	Caliche & sand
177	431	274	Caliche
431	1400	1009	Caliche
1400	1575	115	Red sand - fine shale
1575	1635	60	anhydrite
1635	1730	75	anhydrite & shale
1730	2090	360	salt & coarse shells
2090	2430	340	salt & anhydrite
2430	2710	281	anhydrite & salt
2710	2740	30	anhydrite
2740	2800	60	to & Gyp
2800	2828	28	anhydrite
2828	2920	92	to & Gyp
2920	3051	131	to
3051	3121	70	anhydrite
3121	3214	93	to
3214	3223	9	will sand

Deviation cont.
 1180 - 3/4" - 1267 - 1/4" - 1700 - 3/4"
 1867 - 1" - 2156 - 3/4" - 2875 - 3/4"
 2875 - 3/4" - 3115 - 3/4"
 Not with to from 3214 to 3220,
 and cleaned out to bottom, 3223' 00"
 Hole cleaned out to bottom
 and put on pump 11-2-47

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

MISCELLANEOUS NOTICES

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF		NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	.. xx
NOTICE OF INTENTION TO DEEPEN WELL			

Hobbs, New Mexico, Aug. 4, 1950
Place Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the _____

Sinclair Oil & Gas Co., W. D. Crimes Well No. 5 in NW/4
Company or Operator Lease
of Sec. 28, T. 18S, R. 38E, N. M. P. M., Bowers Field.
Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

TD 3222 Ft.
7"OD Casing @ 3185 Ft.
Present Production 1/4 barrel oil per day - pumping

Fill hole with heavy mud and cement bottom of hole up into bottom of 7"OD Casing
Shoot off 7"OD Casing and spot 10 Sk. Cement plug in top of shot off 7" Casing if it is below the bottom of surface pipe set @ 440 Ft. Keeping hole full heavy mud.

Set cement plug in top of 5/8" OD (surface) Casing and in bottom of cellar with 4" pipe cemented in to extend 4' above the surface level as "Regulation marker".

AUG - 7 1950

Approved _____, 19____
except as follows:

Sinclair Oil & Gas Company
Company or Operator

By _____

Position Dist. Supt.
Send Communications regarding well to

Name W. B. Rhee

Address Hobbs, N. Mex.

OIL CONSERVATION COMMISSION

By Ray Spink
Title OIL & GAS INSPECTOR

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

RECEIVED
AUG 25 1950
OIL CONSERVATION COMMISSION

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL	XX		

August 24, 1950

Hobbs, New Mexico

Date

Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the _____

Sinclair Oil & Gas Company W. D. Grises Well No. 5 in the _____

Company or Operator

Lease

SW/4 of Sec. 23, T. 13S, R. 33E, N. M. P. M.,

Lea Field, Lea County.

The dates of this work were as follows: Aug. 14th to 20th, 1950

Notice of intention to do the work was (~~was not~~) submitted on Form C-102 on 8/4/50 19

and approval of the proposed plan was (~~was not~~) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

TD 3222 Ft. - 7"OD Casing set @ 3185 Ft. / - 9 5/8"OD Casing @ 441 Ft. cemented w/ 600 lbs. cement. Filled hole with heavy mud and cemented bottom of hole thru 2" Tubing with 25 Sacks.

Shot off 7"OD Casing @ 1342 Ft. and pulled, filled hole with heavy mud and cemented @ 1342 Ft. with 20 Sacks thru 2" Tubing.

Filled hole with heavy mud to bottom of cellar- Set 4" piece of pipe 4' above surface level in top of 9 5/8"OD Casing and cemented with 10 Sacks, as "REGULATION MARKER". Pull plug in top of marker. Cellar filled level with surface. Job completed.

Witnessed by Mr. E. W. Wilburn Lea County Casing Pullers Machine Operator
Name Company Title

Subscribed and sworn before me this 24th

I hereby swear or affirm that the information given above is true and correct.

14 day of August 19 50

Name W. D. Grises

Position Dist. Supt.

Notary Public

Representing Sinclair Oil & Gas Co.
Company or Operator

My commission expires 2-4-54

Address Box 1427, Hobbs, N.M.

Remarks:

APPROVED

Date Aug 25 1950

E. W. Wilburn
Name
Engineer
Title

AGUA, INC.

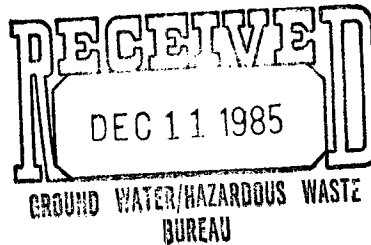
POST OFFICE BOX 1978
HOBBS, NEW MEXICO
88241

TELEPHONE: 505 393-6188

December 9, 1985

Environmental Improvement Division
P.O. Box 968
Santa Fe, New Mexico 87504-0968

Attn: Ms. Paige Grant Morgan



Re: French Drive Brine Discharge Plan

Dear Ms. Morgan:

Enclosed is a written reply to your letter dated September 11, 1985 regarding the proposed discharge plan. Currently the tentative date to start will be set around the end of January, 1986. If I can be of any further assistance, please call.

Very truly yours,

AGUA, INC.

A handwritten signature in cursive script that reads "James D. Thornton".

James D. Thornton
Engineer

JDT/dlb

Enclosure

December 9, 1985

WRITTEN REPLY TO LETTER DATED SEPTEMBER 11, 1985

- ✓1. A pressure test will be performed upon completion of the brine well. The cement bond log will be performed immediately if remedial work is necessary, otherwise a cement bond log will be submitted before renewal of the discharge plan.
- ✓2. AGUA will supply to the EID a water sample report from the water well located south of the brine well (#18.38.38.133). This well is still in use as a domestic supply well. 2
3. AGUA will shut down operations and conduct an investigation should contamination be discovered. If necessary the water well (#18.38.28.133) will then be pumped until the chloride values stabilize at the original values reported.

A report of the cavity size will be reported annually to the EID. If the size of the cavity encroaches within 200 feet of the Repollo Grimes No. 5, AGUA will make sure that fluid will not move through the plugged well from the salt section to any of the formations above.

again, method for doing so must be approved by EID

critique of that method must be app. by EID before use

TONY ANAYA
GOVERNOR

DENISE D. FORT
DIRECTOR



STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION

P.O. Box 968, Santa Fe, New Mexico 87504-0968
(505) 984-0020

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

September 23, 1985

R.W. Abbott
Agua Inc.
P.O. Box 1978
Hobbs, NM 88240

Dear Mr. Abbot:

Enclosed is a copy of the public notice pertaining to your proposed discharge which was issued by this division pursuant to New Mexico Water Quality Control Commission Regulations, Section 3-108.

If you have any questions, please do not hesitate to contact me at the above address and telephone number (ext. 279).

Sincerely,

Maxine S. Goad
Program Manager
Ground Water Section

MSG:jba

Enclosure

PS Form 3800, Feb. 1982 * U.S.G.P.O. 1983-403-517

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	

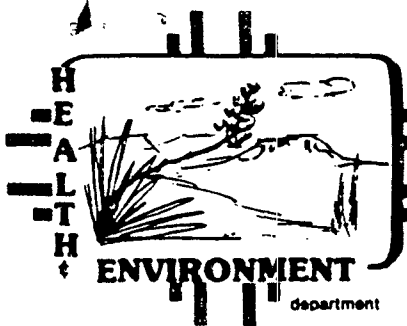
Handwritten information in the form:
 Sent by: R.W. Abbott, Agua Inc.
 Street and No.: P.O. Box 1978
 P.O. State and ZIP Code: NM 88240

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

P 012 425 508

TONY ANAYA
GOVERNOR

DENISE D. FORT
DIRECTOR



STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION

P.O. Box 968, Santa Fe, New Mexico 87504-0968
(505) 984-0020

September 23, 1985

Hobbs News Sun
201 North Thorp
Hobbs, NM 88240

Dear Sir or Madam:

Please publish the enclosed public notice concerning discharge plan(s) in the classified legal section on or before October 3, 1985.

Send your statement and two (2) copies of the Affidavit of Publication to me at the above address.

Please print only the section(s) highlighted in yellow.

Thank you.

Sincerely,

A handwritten signature in cursive script that reads 'Maxine S. Goad'.

Maxine S. Goad
Program Manager
Ground Water Section

MSG:jba

Enclosure

TONY ANAYA
GOVERNOR

DENISE D. FORT
DIRECTOR



STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION

P.O. Box 968, Santa Fe, New Mexico 87504-0968
(505) 984-0020

September 23, 1985

ALBUQUERQUE JOURNAL
P.O. Drawer J
Albuquerque, New Mexico 87103

Attention: LEGAL ADVERTISING

Dear Sir or Madam:

Please publish the enclosed public notice concerning discharge plan(s) in the classified legal section of the Albuquerque Journal on or before October 3, 1985.

Send your statement and two (2) copies of the Affidavit of Publication to me at the above address.

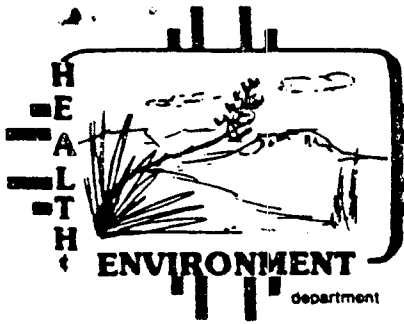
Thank you.

Sincerely,

Maxine S. Goad
Program Manager
Ground Water Section

MSG/mp

Enclosure



STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION

P.O. Box 968, Santa Fe, New Mexico 87504-0968
(505) 984-0020

**TONEY ANAYA
GOVERNOR**

**DENISE D. FORT
DIRECTOR**

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

September 23, 1985

Board of County Commissioners
County of Lea
Hobbs, New Mexico 88260

Board of County Commissioners:

Enclosed is a public notice which includes notice of proposed discharge plan(s) for one or more operations located in your county.

If you have any questions, please do not hesitate to contact me at the address and telephone number given above.

Sincerely,

Maxine S. Goad

MAXINE S. GOAD
Program Manager
Ground Water Section

MSG: mp

Enclosure

PS Form 3800, Feb. 1982

★ U.S.G.P.O. 1983-403-517

Postmark or Date	
TOTAL Postage and Fees	\$
Return receipt showing to whom, Date, and Address of Delivery	
Return Receipt Showing to whom and Date Delivered	
Restricted Delivery Fee	
Special Delivery Fee	
Certified Fee	
Postage	\$
P.O. State and ZIP Code	88260
Street and No.	11th St
City	Hobbs
State	NM
Signature	<i>Denise D. Fort</i>

(See Reverse)

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

P 612 426 519

**TONEY ANAYA
GOVERNOR**

**DENISE D. FORT
DIRECTOR**



STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION

P.O. Box 968, Santa Fe, New Mexico 87504-0968
(505) 984-0020

September 11, 1985

James D. Thornton, Engineer
Agua, Inc.
PO Box 1978
Hobbs, NM 88241

Dear Mr. Thornton:

I have prepared a public notice describing the amendment to the discharge plan for Agua Inc.'s French Drive Brine Station, which you submitted to EID on August 26, 1985. Mr. R.W. Abbott will receive a copy of the public notice when it is sent out to the newspapers, probably within the next two weeks. As I explained in my letter to you of August 16, 1985, EID must wait for 30 days after notice is published in order to allow time for public comment, before taking any further action.

Your letter of July 22nd and subsequent discharge plan amendment of August 26, 1985, have substantially completed the discharge plan for Agua Inc.'s French Drive Brine Station. Only the following points remain:

1. The cement bond log and pressure test will be required for this well whether it is newly drilled or a re-entry. As I discussed with you by phone on August 12th, you may delay running the CBL until you apply for renewed approval of Agua's discharge plan, five years after initial approval is granted. However, if remedial work should be necessary, it may be more convenient to carry it out before the well is placed in operation.
2. Since you propose to install the brine well 250 feet west of your first proposed location, the more easterly of your two proposed monitor wells will be too far away to provide useful information. You need only submit information from the well nearly due south of your new location, which I believe is #18.38.28.133. Is this well still in use as a domestic supply well?
3. I agree with you that with the precautions you have taken with the design of this facility, your planned constant surveillance of the station and your agreement to periodic testing of the brine well, the opportunity for ground water contamination is slight. Nonetheless, you are required to give some forethought as to how you would address the problem should it occur. I suggest that if TDS and chloride concentrations should rise in your monitor well, you could plan to:

(1) shut down operations and conduct an investigation as to the source of contamination;

(2) if a source is located at the French Drive Brine Station, install a well downgradient of the source of contamination and approximately as deep as the contaminated zone of ground water, and pump the well until TDS and chloride values in the pumped well and monitor well stabilize at the original values reported with your letter of July 22nd.

4. The discussion under #8 in my letter to you of July 11, 1985 was based on a misreading of the location description of the Repollo Oil Co. W.D. Grimes No. 5 well in the OCD forms appended to the Agua Inc. discharge plan. I now realize (and you confirmed during our telephone conversation yesterday afternoon) that it was the W.D. Grimes No. 5 well which you were proposing to re-enter, in the first draft of your discharge plan; therefore, of course, the admonition not to allow the salt cavity to encroach within 200 feet of W.D. Grimes No. 5 was meaningless. Now that you are planning to install a new brine well 250 feet from the Repollo/Grimes No. 5 well, the admonition definitely applies, as stated in Section 5-203 of the New Mexico Water Quality Control Commission regulations: you are required to take steps to ensure that operations at the French Drive Brine Station will not cause or allow fluid to move through an inadequately plugged well. A report on the probable size of the salt cavity based on production records will be required annually, to monitor the cavity growth; and you should be prepared for a requirement to reenter the Repollo/Grimes No. 5 well and plug it with cement from the top of the salt section back to surface, when the salt cavity at your new well encroaches within approximately 200 feet of the Repollo/Grimes No. 5 well bore.

As I remarked to you by phone, you would buy time for the facility if you moved as far away as possible from any perforation. I would recommend that you consider installing the well at a distance of more than 250 feet from the Repollo/Grimes No. 5 well, since you have the area. If you do so, please reassess the location of your monitor well and propose another if there would be one available closer to your new location than #18.38.28.133.

The above are my final comments on your proposed discharge plan. Unless EID receives significant public comment on this facility, I am prepared to recommend approval of the discharge plan for the French Drive Brine Station when we reach agreement on the above points.

Sincerely,



Paige Grant Morgan
Water Resource Specialist

PGM:pgm

cc: John Guinn, EID District IV Manager

AGUA, INC.

POST OFFICE BOX 1978
HOBBS, NEW MEXICO
88241

TELEPHONE: 505 393-6188

August 26, 1985

RECEIVED

AUG 29 1985

State of New Mexico
Environmental Improvement Division
P.O. Box 968
Santa Fe, New Mexico 87504-0968

GROUND WATER/HAZARDOUS WASTE
BUREAU

Attn: Ms. Paige Grant Morgan

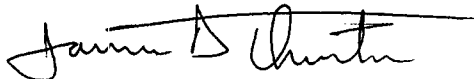
Re: Amendments to French Drive Brine Discharge Plan

Dear Ms. Morgan:

Enclosed are the amendments to AGUA's original French Drive Brine Discharge Plan. The changes include a rearrangement of surface facilities along with the drilling of a new well located 250' due west of the original proposed location. AGUA will set surface casing to 300' or 40' below the Ogallala and cemented to surface. The long string will also be cemented to surface. All other aspects of the Discharge Plan will be the same.

AGUA requests approval of the amended Discharge Plan before beginning construction. If there are any questions, please call me at (505)393-6188.

Yours very truly,

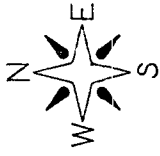


James D. Thornton
Engineer

JDT/dlb

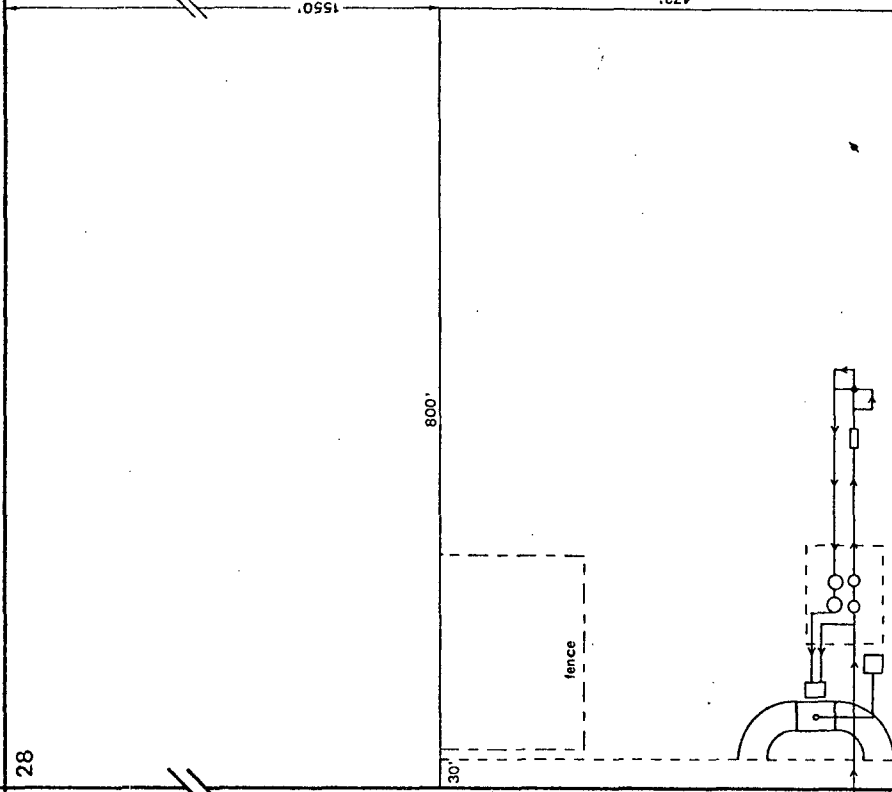
Enclosures

SECTION 28, TOWNSHIP 18 SOUTH, RANGE 38 EAST
Lea County, New Mexico



BENDER STREET

20 21
29 28



8" CITY WATER MAIN

FRENCH DRIVE

Symbols

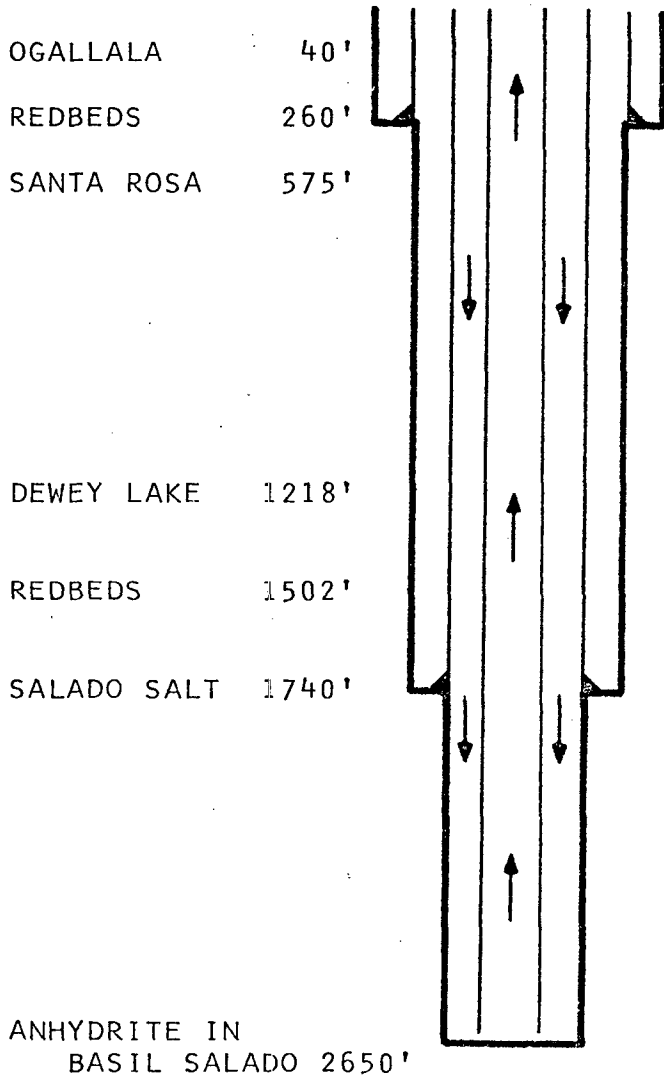
- 100' --- 3' dike
- 80' ---
- loading pad
- sump
- loading station
- injection pump
- 1000 bbl brine tank
- 1000 bbl fresh water tank
- new location
- path

note - all lines buried to minimum of 24" beneath surface.
proposed new location 250' due west of w.d. grimes no. 5

AGUA, INC.

SCALE: 1"=100'	APPROVED BY:	DRAWN BY: JDT
DATE: 8/19/85	REVISED	REVISED
FRENCH DRIVE BRINE - WELL NO. 1		DRAWING NUMBER
FACILITY PLOT PLAN		

WELLBORE DIAGRAM



SURFACE CASING:

9-5/8", J-55, 36 LB/FT.

SET AT 300'

235 SKS. CLASS C CEMENT

INTERMEDIATE CASING:

5-1/2", J-55, 15.5 LB/FT.

SET AT 1740'

750 SKS. CLASS C CEMENT

TUBING:

2-7/8", J-55, 6.5 LB/FT.

SET AT 2625'

TOTAL DEPTH: 2650'

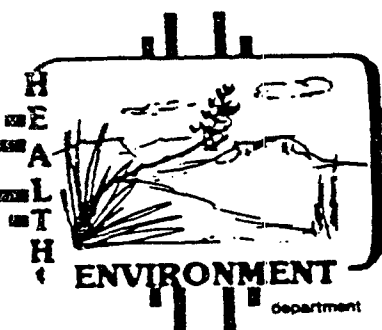
JEY ANAYA
GOVERNOR

DENISE D. FORT
DIRECTOR

STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION

P.O. Box 968, Santa Fe, New Mexico 87504-0968
(505) 984-0020



Jim Thornton, Engineer
Agua, Inc.
PO Box 1978
Hobbs, NM 88241

August 16, 1985

Dear Mr. Thornton:

Enclosed, per our conversation this morning, is a suggested outline for a discharge plan for an in situ extraction facility, along with information on the permit application process. Please take note of the two different permit application tracks available to in situ extraction well operators. The first is to complete a discharge plan and receive approval for it before beginning construction. The second is to submit the information that is underlined in the outline and receive approval for the plugging and abandonment bond only, before beginning construction. If this approach is taken, the rest of the discharge plan must be approved before operations may commence at the facility. Please let me know which of these approaches Agua Inc. wishes to take in applying for an operating permit for the French Drive Brine Station.

As soon as possible after receiving your revised well plans, I will publish a public notice of the fact that Agua Inc. plans to drill a new brine well rather than doing a workover of an old oil well. As always, EID must allow 30 days for public comment after publication of such notice before taking any further action (such as giving final approval of a discharge plan).

Let this letter serve as formal notice that the plugging and abandonment bond which Agua Inc. holds with the Oil Conservation Division, together with the letter from Daniels Insurance Co. assuring the EID that the bond covers brine wells, is acceptable to the EID.

Sincerely,

Paige Grant Morgan
Water Resource Specialist

PGM:pgm

cc: R.W. Abbott - Agua Inc.
J.T. Janica - Natural Resources Engineering, Inc.
John Guinn - EID District IV Manager

8/16/85:
9:30 a.m.

Jim Thornton called to say that they had decided not to reenter the old oil well to put in their brine well, but to drill a new hole instead, 250 feet west of the old oil well. I pointed out the point #8 I made in my July 11, 1985 letter to Janice, with regard to completely plugging any potential brine conduit or shutting down. I said 250 feet was pushing it and they'd probably have to plug the old well in five years or so. He said they were willing to take that risk because they didn't even know if they'd be in business with the French Drive Brine well 5 years hence.

He wanted to know if a surface casing would be required in a newly drilled well that was cemented to surface. I said it would be hard to persuade that that protection was not required for the Ogallala. He said he had talked to someone in the Ground Water Section of the OCD who said a single-string completion would be okay. I asked if it was

Dave Boyer - he said he thought so. (I checked with Dave; neither he nor Phil Baca could recall a conversation with Thornton. Dave said further that OGD would require a surface casing at that location.)

Thornton said he would send me a survey of the proposed location of the well and a sketch of the plans for the well. I said I would check through the submittals they had made to date to see how much would apply to the new location and how much new information would be necessary. I asked him if he wanted to be on the "Notification" track or to submit a completed DP and receive approval for it prior to construction. He was unclear on the difference. I said I would send him the outline and flow chart today.

AGUA, INC.

POST OFFICE BOX 1978
HOBBS, NEW MEXICO
88241

TELEPHONE: 505 393-6188

RECEIVED

AUG 14 1985

July 22, 1985

Environmental Improvement Division
P.O. Box 968
Santa Fe, New Mexico 87504-0968

GROUND WATER/HAZARDOUS WASTE
BUREAU

Attn: Ms. Paige Grant Morgan

Dear Ms. Morgan:

Enclosed are the requirements for the operation of the French Drive Brine Station as stated in your letter dated July 11, 1985. If I can be of any further assistance, please let me know.

With best regards,



Robert W. Abbott

JDT/dlb

Enclosures

FRENCH BRINE DRIVE STATION

REQUIREMENTS:

1. A cement bond log and results of a pressure-test will be sent to the E.I.D. immediately following the workover of the well.
2. See attachment (1) at end of letter.
3. See attachment (2) at end of letter.
A TDS and chloride analysis will also be provided to the E.I.D. on an annual basis and after a major leak or spill.
4. A report of total water injected and total brine extracted will be made to the E.I.D. on an annual basis.
5. As much advance notice as possible will be given to the E.I.D. prior to the pressure-test.
6. A supervisor will be located on site to guarantee that proper procedures will be followed during the loading of trucks.

AGUA, INC. trucks will not be the only trucks served by the brine station. The supervisor will be instructed to watch other trucks as well as AGUA'S trucks.

The dimensions of the sump will be 6' deep by 6' wide by 12' long which will have a capacity of 77 bbls. or 3,231 gals.

To contain a catastrophic spill, dikes will be constructed around both sets of tanks. The set of 500 bbl. tanks will be contained by a dike measuring 75' x 30' x 3' which has a capacity of 1,200 bbls. The set of 1,000 bbl. tanks will be contained by a dike measuring 100' x 40' x 3' which has a capacity of 2,100 bbls. Immediately following a spill, a vacuum truck will be sent from our fleet of thirty trucks to pick up the spill. The E.I.D would then be notified as to possible, but improbable, contamination of ground water in the immediate area.

7. Current technology prevents us from restoration of contaminated ground water. The best method available for ground water restoration is prevention of contamination. As mentioned earlier, dikes around the tanks, the sump for minor spills, and the quick reaction to a spill will prevent contamination. Well failure such as a casing leak will not affect ground water since fresh water will be circulating down the casing tubing annulus.
8. At the time of permit renewal, an estimate of the cavity size will be reported based on the records of produced brine.
9. See attachment (3) at end of letter.



"ATTACHMENT 1"

August 13, 1985

Agua, Inc.
P.O. Box 1978
Hobbs, New Mexico 88240

Attention: Jim Thornton

RE: Ground Water
Santa Rosa and Chinle
French Drive Brine
AG01-001-001

Dear Mr. Thornton:

I have researched the Santa Rosa and Chinle formation in Lea County. Both of these formations are of Triassic age and make up the Dockum Group or what is commonly called the red beds.

There is a relative lack of information on these formations in the French Brine Drive area of review. This is because of the relatively poor quality and quantity of water produced from wells in these formations. However we have been able to obtain the following information.

The upper most formation of the Dockum Group is the Chinle, which ranges in thickness from 0-1270'. It is thickest in the eastern part of Lea County and entirely absent in the western part. The Chinle is mostly a red and green clay stone but also contains minor fine grained sandstone and siltstone.

The Santa Rosa is a fine to coarse grained sandstone, which ranges in thickness from about 140 feet to more than 300 feet. It contains minor shale layers. In some areas the sand grains approach silt size. Elsewhere the rock is conglomeratic. It is generally red, but it contains white gray, and greenish gray sands.

These aquifers are recharged by precipitation on the sand dunes in South Lea County and West Eddy County and by precipitation and runoff directly on the outcrop of these formations in Eddy County. There is also probably some ground water flow from the overlying Ogallala formation and Alluvium. Recharging appears to be concentrated in the following areas: T22S,R32E and T21S,R33E and T24S,R33E. Water movement is generally away from these recharged areas.

Within a 1/4 mile radius of the French Drive Brine #1, there are no water wells producing from the Santa Rosa and Chinle. This is primarily due to fine grained character of the rock and consequent low permeability. Additionally the water produced from these aquifers has an unacceptably high sulfate content.

The depths to the Santa Rosa and Chinle in the French Drive Brine are 260 feet and 575 feet respectively. The Chinle is approximately 315 feet thick with the Santa Rosa being approximately 643 feet thick.

While an analysis of water from these formations in the area of review was not obtainable. Table A has an analysis of produced water from oil wells in this general area.

The sources used by NRE in this discussion are:

1. USGS - Ground Water Report #6
"Geology and Ground Water conditions
in Southern Lea County NM"
by A. Nicholson Jr. and A. Clebsch Jr.
2. "Report on Ground Water Resources"
prepared for the city of Hobbs - 1964
by Freese, Nichols and Endres
3. USGS - Hydrologic Investigations Atlas HA-62
"Ground Water Conditions in Northern Lea County"
by S. R. Ash
4. USGS - Open File Report 75-579
"Water Quality Data from Oil and Gas Wells
in the Permian Basin of SE New Mexico and West Texas"
by W.L. Hiss

I hope this information is adequate for your needs. If we can be of any further assistance please feel free to contact our office.

Sincerely yours,



J.T. Janica, Jr. PE
Natural Resources Engineering, Inc.

Enclosures

cc: file
chronos
P. Grant Morgan - NMEID

Table A

Agua - French Drive Brine
DP - 387

Formation	Location STR	Date	Sodium & Potassium as Na	Chloride (Cl)	Sulfate (SO ₄)	Spec Con uMOHS@25C
Chinle	19-18S-33E	12/2/65	52	80	-	1320
		11/17/65	940	1400	-	2640
Dockum	3-19S-38E	3/28/29	2400	3400	1000	9720*
Santa Rosa	7-18S-32E	12/8/65	12	19	-	605
		11/18/65	14	22	-	1740
Santa Rosa	8-19S-32E	8/2/63	1400	2800	-	-

1. All measurements grams/milliliters
2. * Measured at 18C

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

"ATTACHMENT 2"
Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. James D. Thornton LABORATORY NO. 785343
P.O. Box 1978, Hobbs, NM 88241 SAMPLE RECEIVED 7-22-85
RESULTS REPORTED 7-26-85

COMPANY Aqua, Inc. LEASE _____
FIELD OR POOL _____
SECTION _____ BLOCK _____ SURVEY _____ COUNTY _____ STATE _____

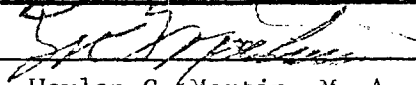
SOURCE OF SAMPLE AND DATE TAKEN:
NO. 1 Water well #18.38.28.133
NO. 2 Water well #18.38.28.143
NO. 3 _____
NO. 4 _____

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.				
pH When Sampled				
pH When Received	7.26	7.63		
Bicarbonate as HCO ₃	234	254		
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	216	296		
Calcium as Ca	74	101		
Magnesium as Mg	8	11		
Sodium XXXXXXXXXX	54	71		
Sulfate as SO ₄	50	109		
Chloride as Cl	64	91		
Iron as Fe	0.22	0.65		
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	483	636		
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide				
Resistivity, ohms/m at 77° F.				
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Carbonate, as CO ₃	0	0		
Nitrate, as N	8.5	7.7		
Potassium, as K	0	0		

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

By 
Waylan C. Martin, M. A.

ATTACHMENT 3

As I mentioned in our conversation on the phone August 5th, I am having Pat Cargile with Daniels Insurance send you a letter concerning the plugging bond on the brine well.



DANIELS INSURANCE INC.

P.O. BOX 1258 • HOBBS, N.M. 88241-1258 • (505) 393-5191 • INSURANCE • BONDS • REAL ESTATE • ESTABLISHED 1937

PAT CARGILE
Senior Vice President

August 12, 1985

RECEIVED

AUG 14 1985

GROUND WATER/HAZARDOUS WASTE
BUREAU

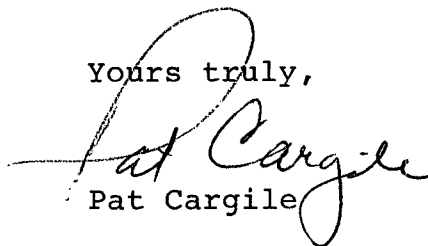
Ms. Paige Grant Morgan
Environmental Improvement Div.
P O Box 968
Santa Fe NM 87504-0968

Re: Agua, Inc., French Drive Brine Station, Brine Well

Dear Ms. Morgan:

We currently have in force a blanket plugging bond to the Oil Conservation Commission in the name of Agua, Inc. This covers any wells that they open or close in the State of New Mexico, including brine wells. This bond is on file with the Oil Conservation Commission, and I am enclosing a copy for your information. If you need additional information, please advise. Thank you.

Yours truly,


Pat Cargile

PC/ljm

Enclosure

STATE OF NEW MEXICO

Revised 6-17-77

\$50,000.00 BLANKET PLUGGING BOND

BOND NO. 4356142
(For Use of Surety Company)

(Note: File with Oil Conservation Commission, P. O. Box 2088, Santa Fe 87501)

KNOW ALL MEN BY THESE PRESENTS:

That AGUA, INC. XXXXXXXXXXXXXXXXXXXX
(a corporation organized in the State of New Mexico, with its principal office in the city of Hobbs, State of New Mexico, and authorized to do business in the State of New Mexico), as PRINCIPAL, and Hartford Accident & Indemnity Company, a corporation organized and existing under the laws of the State of Connecticut, and authorized to do business in the State of New Mexico, as SURETY, are held firmly bound unto the State of New Mexico, for the use and benefit of the Oil Conservation Commission of New Mexico pursuant to Section 65-3-11, New Mexico Statutes Annotated, 1953 Compilation, as amended, in the sum of Fifty Thousand Dollars (\$50,000.00) lawful money of the United States, for the payment of which, well and truly to be made, said PRINCIPAL and SURETY hereby bind themselves, their successors and assigns, jointly and severally, firmly by these presents.

The conditions of this obligation are such that:

WHEREAS, The above principal has heretofore or may hereafter enter into oil and gas leases, or carbon dioxide (CO₂) gas leases, or helium gas leases with the State of New Mexico; and

WHEREAS, The above principal has heretofore or may hereafter enter into oil and gas leases, or carbon dioxide (CO₂) gas leases, or helium gas leases on lands patented by the United States of America to private individuals, and on lands otherwise owned by private individuals; and

WHEREAS, The above principal, individually, or in association with one or more other parties, has commenced or may commence the drilling of wells to prospect for and produce oil or gas, or carbon dioxide (CO₂) gas or helium gas, or does own or may acquire, own or operate such wells, or such wells started by others on land embraced in said State oil and gas leases, or carbon dioxide (CO₂) gas leases, or helium gas leases, and on lands patented by the United States of America to private individuals, and on lands otherwise owned by private individuals, the identification and location of said wells being expressly waived by both principal and surety hereto.

NOW, THEREFORE, If the above bounden principal and surety or either of them or their successors or assigns, or any of them, shall plug all of said wells when dry or when abandoned in accordance with the rules, regulations, and orders of the Oil Conservation Commission of New Mexico in such way as to confine the oil, gas, and water in the strata in which they are found, and to prevent them from escaping into other strata;

THEN, THEREFORE, This obligation shall be null and void; otherwise and in default of complete compliance with any and all of said obligations, the same shall remain in full force and effect.

PROVIDED, HOWEVER, That thirty (30) days after receipt by the Oil Conservation Commission of New Mexico of written notice of cancellation from the surety, the obligation of the surety hereunder shall terminate as to property or wells acquired, drilled, or started after said thirty (30) day period but shall continue in effect, notwithstanding said notice, as to property or wells theretofore acquired, drilled, or started.

PAIGE,

JIM THORNTON - AGUA-INC 3936188 CALLED.

1:15 PM AUG 9.

HE DOESN'T WANT TO RUN CEMENT BOND LOG ON HIS WELL BECAUSE THEY ARE GOING TO CIRCULATE CEMENT TO SURFACE AND IT COSTS \$2,300.

HE WANTED TO KNOW WHY WE REQUIRE CBC'S AND OLD DOESN'T, I TOLD HIM BECAUSE OF CHANNELING & FLUID MIGRATION - HE STILL DOESN'T THINK THEY NEED ONE.

I TOLD HIM I'D HAVE YOU CALL HIM BACK 1ST THING ON MONDAY.

How SARES.

8/12/85
9:30 am.

Spoke with Jim Thornton: he said they had revised their plans for the workover, were now planning to run 5 1/2" casing through the 7." I said to send in a revised sketch and I would review it from the standpoint of whether a CBC would be required. I said if I decided a CBC was still required, I would be willing to let it be run within the first five years of operation. ↓

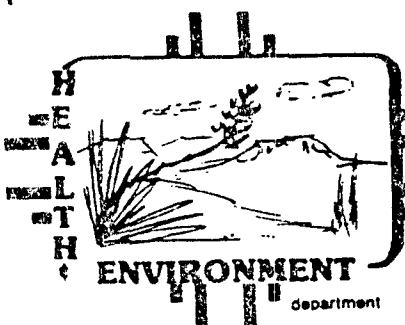
He said that would suit them better.
He said they were also working on a
backups plan to drill a new well 25
feet away from the old well in case
it proved impossible to do the
workover as they'd planned (if there
was too much junk in the well, for
instance). He said that Jerry Sexton
had told him it would probably
be OK just to put in one string of casing
cemented to surface. I said I would
be more comfortable with a short string
in addition to base of USDW, but it
was up to them to make a proposal
for me to review. I said that they
would definitely have to plug the old
well from the top of the salt back
to surface if they drilled next to it. He
said they would bear that in mind.
George Morgan.

8/5/85: Jim Thornton, engineer for Aqua Inc. called to say that they were going to respond to my letter about their ID very soon, but had one problem: their insurance company balked at the changes I proposed on their bond. He asked if it was critical to make the bond out in the name of EID. I said that our regulations specified we could accept a bond that was written to another agency, but it seemed to me cleaner to make it out to EID since we would be overseeing operation of the brine well. However if that was a real problem we could accept the bond written to OCS, but there needed to be some mention in it saying that the bond applied to brine extraction wells. He said he would have their insurance company write to me confirming that the bond covered brine wells, too.

Paige Morgan

TONEY ANAYA
GOVERNOR

DENISE D. FORT
DIRECTOR



STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION

P.O. Box 968, Santa Fe, New Mexico 87504-0968
(505) 984-0020

July 11, 1985

J.T. Janica, Jr. P.E.
Natural Resources Engineering, Inc.
PO Box 2188
Hobbs, NM 88240

Re: Discharge plan DP-387 for the Agua, Inc. French Drive Brine Station

Dear Mr. Janica:

Thank you for your submittal of a discharge plan application for the above-referenced brine station. You are to be congratulated for having prepared a substantially complete discharge plan for this facility on the first go-around.

There remain a few points to be clarified before I can recommend approval of this discharge plan, and they are discussed below. However, the materials you have submitted to date are sufficient to constitute a "Notification" as defined in Section 5-102.B. of the Water Quality Control Commission (WQCC) regulations. Therefore, your client is authorized to commence construction of the French Drive Brine Station, pursuant to agreement between your client and EID on the terms of his bond (see point #9 below), and not before August 14, 1985 (90 days from the date the discharge plan was received at EID). Please refer to the attached flow chart which describes the review process of a discharge plan/notification, for an explanation of the time period required before construction may begin.

Prior to construction, your client must notify EID that he intends to construct, to give EID the opportunity to witness operations. And within 30 days of completing construction, your client is required to notify EID that the well is completed according to plan, or to provide EID with as-builts if the final design varies from the original plans.

Please note that operation of the brine station (production and sale of brine) is not permitted until final discharge plan approval is obtained.

In order for the Agua, Inc. discharge plan to be approved, the following points must be satisfactorily addressed.

1. Please run a cement bond log in the course of the workover of this well, and submit the log to EID along with the results of the pressure test.
2. You have provided considerable information on the Ogallala Formation in the area of review. However, you will that Section 5-102.B.1.d.3. requires information on the vertical and lateral limits and direction of flow of all ground water having 10,000 mg/l or less total dissolved solids (TDS) within one mile of the proposed facility. The rebeds and Santa Rosa Formations contain water of such quality in much of Lea County. Please submit information on the depth and flow direction of the ground water in these formations.
3. The water quality information submitted to characterize the ground water which is most likely to be affected by this operation, is inadequate. Please submit an analysis of the water from each of the two closest wells to the proposed brine well shown on your Attachment D - one to the southwest and one to the east-southeast. The analysis should consist of the following parameters:

sodium (Na ⁺)	bicarbonate (HCO ₃ ⁻)
potassium (K ⁺)	carbonate (CO ₃ ⁻⁻)
calcium (Ca ⁺⁺)	chloride (Cl ⁻)
magnesium (Mg ⁺⁺)	sulfate (SO ₄ ⁻⁻)
	nitrate as nitrogen (NO ₃ ⁻ as N)

total dissolved solids (TDS)

After having submitted this background information, you need only submit analyses for TDS and chloride from these wells on an annual basis, unless there is a major leak or spill at the brine facility or the monitoring results show a significant rise in either parameter..

4. You appear to have a good design for monitoring volumes of injected water and produced brine. Please plan to report total water injected and total brine extracted to EID on an annual basis, on the anniversary of approval of this discharge plan.
5. Please give EID as much advance notice as possible prior to conducting a pressure test. Chances are you will know more than one day in advance when you will be running such a test, since it will be necessary to make arrangements in advance for a pulling rig, etcetera. Please notify EID as soon as such arrangements are made, so that we have a fair opportunity to have a representative present to witness the test.
6. What guarantee do you have that proper procedures will be followed during the loading of trucks? Are all trucks to be served Agua Inc. trucks? What are the dimensions of the sump - how much of a spill could it contain? How would you handle a catastrophic spill, say of the entire contents of a tank that was struck by lightning?
7. Your plans to remove contaminated soil in the event of a surface spill seem appropriate. However, how would you address ground water restoration in the event of a surface spill or well failure that affected ground water?

8. If the salt cavity created by Agua Inc. grows large enough to encounter the wellbore of the Repollo Oil Company W.D. Grimes Well No. 5, approximately 500 feet southwest of the proposed Agua Inc. brine well, the Repollo/Grimes No. 5 well could act as a conduit for brine produced by the Agua well. Therefore, as a condition of renewed approval of this discharge plan, you will be required to present an estimate of cavity size on the basis of your records of produced brine. If the cavity encroaches within approximately 200 feet of the Repollo/Grimes No. 5 well, you will be required to ensure that the wellbore is plugged in such a fashion as not to permit brine to move through it into other formations. If such assurance cannot be provided to the state, the Agua Inc. well will not be re-permitted.

9. The terms of the plugging and abandonment bond which you have submitted generally look good, but the language of the bond should be amended slightly to read "Environmental Improvement Division" wherever it presently refers to the Oil Conservation Division. Also, please strike the reference to any particular statute; and broaden the description of wells that the bond is to cover, to include brine extraction wells. If you plan to have this bond cover wells that are subject to regulation by the OCD as well as EID, please use both agency names and propose these changes to the OCD. It may be necessary to have two separate bonds for the two types of facilities.

Please be in touch if I can help to clarify any of these points. In particular, let us touch base with regard to the bond as soon as possible, so as not to prevent your client from beginning construction of the brine well on or soon after August 14th, if he so desires. Even after he receives approval of the bond from this office, however, please impress upon him that he must notify EID before construction, and again within 30 days after construction.

Sincerely,



Paige Grant Morgan
Water Resource Specialist

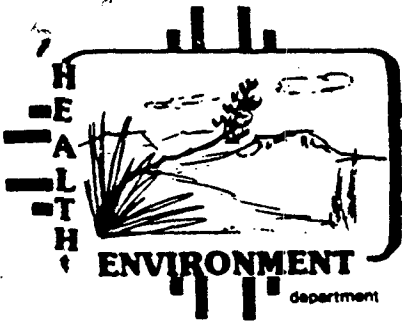
PGM:pgm

cc: R.W. Abbott, Agua Inc.
John Guinn, EID District IV Manager
Roelf Ruffner, EID Hobbs District Office

5/21: R. W. Abbott of
Aqua Inc. called
to point that we'd
misspelled his name
in the public
notice ("Abbot"). I
apologized and told
him we'd publish
a correction if you
thought it necessary.

Farze

5/27/85
We don't have to publish
a correction unless the error
in the notice might mislead
someone as to the facts. I
don't think this minor typo
falls in that category, but we
should make sure the correction
is made in the files and Abbott
is reassured about it. WJF



STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION

P.O. Box 968, Santa Fe, New Mexico 87504-0968
(505) 984-0020

**TONEY ANAYA
GOVERNOR**

**DENISE D. FORT
DIRECTOR**

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

May 16, 1985

R.W. Abbot
Agua Inc.
P.O. Box 1978
Hobbs, NM 88240

Dear Mr. Abbot:

Enclosed is a copy of the public notice pertaining to your proposed discharge which was issued by this division pursuant to New Mexico Water Quality Control Commission Regulations, Section 3-108.

If you have any questions, please do not hesitate to contact me at the above address and telephone number (ext. 279).

Sincerely,

Maxine S Goad

Maxine S. Goad
Program Manager
Ground Water Section

MSG:jba

Enclosure

PS Form 3800, Feb. 1982 ★ U.S.G.P.O. 1983-403-517

Postmark or Date	
TOTAL Postage and Fees	\$
Return receipt showing to whom, Date, and Address of Delivery	
Return Receipt Showing to whom and Date Delivered	
Restricted Delivery Fee	
Special Delivery Fee	
Certified Fee	
Postage	\$
P.O. State and ZIP Code	Hobbs, NM 88240
Per and P.O. No.	882 1978
Sender	R.W. Abbot, Agua Inc.

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

P 612 425 184



STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION

P.O. Box 968, Santa Fe, New Mexico 87504-0968
(505) 984-0020

**TONEY ANAYA
GOVERNOR**

**DENISE D. FORT
DIRECTOR**

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

May 16, 1985

Lea County Commissioners
Lea County Courthouse
Lovington, NM 88260

Board of County Commissioners:

Enclosed is a public notice which includes notice of proposed discharge plan(s) for one or more operations located in your county.

If you have any questions, please do not hesitate to contact me at the address and telephone number given above.

Sincerely,

Maxine S. Goad

Maxine S. Goad
Program Manager
Ground Water Section

MSG:jba

Enclosure

PS Form 3800, Feb. 1982 ★ U.S.G.P.O. 1983-403-517

Postage	\$	88260
Certified Fee		
Special Delivery Fee		
Restricted Delivery Fee		
Return Receipt Showing to whom and Date Delivered		
Return receipt showing to whom, Date, and Address of Delivery		
TOTAL Postage and Fees	\$	
Postmark or Date		

Sent to: Board of Co. Commissioners
 Street and PO. Box: Lovington, NM 88260
 R.O. State and ZIP Code: Lovington, NM 88260

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

P 612 425 188

MAY 16, 1985

TO BE PUBLISHED ON OR BEFORE MAY 28, 1985

PUBLIC NOTICE
NEW MEXICO ENVIRONMENTAL IMPROVEMENT DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following proposed discharge plans have been submitted for approval to the Director of the New Mexico Environmental Improvement Division, P.O. Box 968, Crown Bldg., Santa Fe, New Mexico 87504-0968; telephone (505) 984-0020.

(DP-387) AGUA INC., R.W. Abbot, P.O. Box 1978, Hobbs, NM 88240 proposes to establish the French Drive Brine Station northwest of the city of Hobbs in the NW $\frac{1}{4}$ Sec. 28, T18S R38E in Lea County, New Mexico. Brine will be produced by injecting fresh water into dry salt beds at a depth of 1740 to 2650 feet and returning brine to the surface, where it will be stored in two 1000-barrel tanks and pumped to tank trucks for sale on demand. The injection well used in the operation will be a re-entered oil well, plugged and abandoned in 1950. The ground water most likely to be affected by this operation is at a depth of 40 feet and has a total dissolved solids content of about 500 milligrams per liter.

(DP-128) ANGEL FIRE SERVICES CORP., Thomas P. Miller, Vice-President, proposes to renew their discharge plan for wastewater effluent storage and disposal from Unit 1 of the Mobile Home Estates mobile home park located approximately 1 mile south of Agua Fria, western Colfax County T25N R15E Sec. 2. The estimated maximum discharge for the 25 unit mobile home park is anticipated to be 3,000 gallons per day. Sewage is treated in an activated sludge treatment plant with effluent discharge to a lined storage/evaporation pond and eventual land application. The ground water in the vicinity is reported to be approximately 3 feet below the bottom of the lagoon with a total dissolved solids concentration of approximately 625 mg/l.

(DP-385) NANDINO DAIRY, Pedro and Bonnie Nandino, North Star Route Box 220, Elida, NM 88116 have submitted a discharge plan to cover the operation of a small dairy (75 cows maximum) in the NE $\frac{1}{4}$ Section 29, T3S R31E in Roosevelt County, New Mexico. The discharge will consist of approximately 100 gallons per day of milking parlor washdown effluent to a manure-lined lagoon, from which it will be pumped to irrigate corn, fruit trees and perhaps other crops as necessary. Ground water most likely to be affected is at a depth of 75 feet and has a total dissolved solids concentration of over 2200 milligrams per liter.

(DP-386) U.S. ARMY WHITE SANDS MISSILE RANGE, White Sands Missile Range, NM 88002 proposes to discharge 41,300 gallons per day of effluent from a pressure recovery system at the High Energy Laser Systems Test Facility. The effluent, consisting of cooling tower blowdown, heat-exchanger pump cooling water, and boiled water, will be discharged into a total percolation lagoon located in Section 28, T19S, R6E, Otero County, New Mexico. The ground water below the site is at a depth of approximately 75 feet and has a total dissolved solids concentration of 3,000 to 10,000 mg/l.



May 8, 1985

RECEIVED

MAY 14 1985

Environmental Improvement Division
P. O. Box 968
Santa Fe, New Mexico 87504-0968

GROUND WATER/HAZARDOUS WASTE
BUREAU

Attention: Paige Grant Morgan

RE: Discharge Plan
French Drive Brine
AG01-001-001

DP-387

Dear Paige:

Attached please find one copy of the discharge plan for Agua, Inc.'s proposed French Drive Brine.

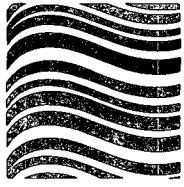
If you have any questions, please feel free to contact me at 397-6319.

Sincerely yours,

J. T. Janica, Jr., P.E.
NRE, Agents for
Agua, Inc.

Enclosures

cc: file
chronos
B. Abbott



natural
resources
engineering inc.

Discharge Plan For
Agua Inc.
French Drive Brine
S28 T18S R38E
Lea County, NM

LIST OF ATTACHMENTS

Attachment A	Current Wellbore Sketch
Attachment B	Proposed Wellbore Sketch
Attachment C	Geological Structure Map
Attachment D	Location of Fresh Water Wells
Attachment E	Ownership Plat
Attachment F	Flooding Potential
Attachment G	Water Analysis
Attachment H	Plugging Records
Attachment I	Plugging Procedure
Attachment J	Fracture Gradient Calculations
Attachment K	State Engineer Records
Attachment L	Location of Proposed Brine Well
Attachment M	Plugging Bond

LIST OF DRAWINGS

Drawing AG-01	Structure Map and Cross Section
Drawing AG-02	System Schematic
Drawing AG-03	Facility Plot Plan

I. GENERAL DESCRIPTION

A. Operator:

Agua Inc.
R. W. Abbott
P. O. Box 1978
Hobbs, New Mexico 88240

B. Location:

Located in Section 28, T-18-S, R-38-E
1980' FNL and 660' FWL
Lea County, New Mexico

C. General Operation:

At the brine well fresh water is injected down tubing casing annulus and brine is returned up tubing and sent to the storage facility. Brine is removed from the storage facility by the loading pump and metered as it is loaded onto transports. (See Drawing AG-02, Brine System Schematic)

D. History:

This well was initially drilled in 1947 as an oil well. It was plugged and abandoned in 1950. It is proposed to re-enter this well and convert it to a brine well.

II. DESCRIPTION OF FACILITY

A. Surface Facilities:

The brine well is located NW of Hobbs (See Attachment "M"). Drawing AG-03 is a plot plan of the facility showing the general layout of the site.

The facility will be enclosed by a fence which will prevent small animals and unauthorized personnel from entering the site. The surface facilities are arranged as shown in drawing #2. Brine is carried 250' through 4" pipe to the storage facility. From the storage facility, brine is carried 300' to the loading station. Typically 1650 bbls./day are discharged to and withdrawn from the brine storage facility.

The type of pipe to be used to transport brine from the well to storage to the loading station will be plastic pipe. It will be buried to protect it from damage and subsequent spills which may be caused by truck traffic at the brine station.

B. Underground Facilities:

The proposed brine well was drilled in August 1947 and is currently plugged and abandoned. Attachment A is a diagram of the well as it is now. Attachment B is a well bore sketch of the well as proposed. Agua, Inc. proposes to re-enter the well and clean out the plugs from surface to 2900'. New 7" casing will be run and tied into the old 7" casing. The new casing will be cemented back to surface with 350 sacks of class "C" cement.

A permanent bridge plug will be set at 2900' (200' below base of the salt) and capped with 36 sacks of class "C" cement (200' plug). After the casing is cemented, Agua, Inc. will pressure test the casing to 1000 psi. Agua, Inc. will notify the EID prior to pressure testing the casing. We will also submit a report of the results of the test with a pressure chart of the casing pressures during the testing. The casing across the salt section will then be perforated with 4 shots per foot. Then 4-1/2" plastic coated tubing will be run in the hole to 2650'.

No stimulation program is planned.

Initial injection pressure is anticipated to be 300 psi with a maximum injection pressure of 400 psi. Injection volumes are estimated to be 1650 bbls./day with a maximum of 2500 bbls./day.

Fresh water is to be injected down the casing tubing annulus with brine produced up the tubing. This will prevent exposing the casing to more corrosive brine water and in the event of a leak in the casing, fresh water would be the fluid leaked limiting contamination of ground water. Periodically this injection pattern will be reversed (ie. fresh water down tubing with brine produced up annulus) to remove any salt deposits which have accumulated in the tubing. After these deposits have been removed, the normal injection method will be resumed.

III. SITE CHARACTERISTICS

A. Geology:

The sources of our geological information are:

1. The Roswell Geological Society
2. The U.S. Corps of Engineers
3. Well logs and sample records
4. N.M. Energy & Minerals Department Oil Conservation Division

- 5. U.S. Minerals Management Service
- 6. N.M. State Engineers Office

The salt section is bounded on the top by an anhydrite section approximately 118' thick, 1622' to 1740'. The bottom of the salt is bounded by anhydrite from 2710' to 2740' (30' thick). The well is located on the Northeast edge of the "Hobbs High". (See Attachment "C")

Stratigraphic column to the base of the salt in the brine extraction well is:

Caliche and Alluvium	0 - 40'
Ogallala	40 - 260'
Redbeds	260 - 575'
Santa Rosa	575 - 1218'
Dewey Lake	1218 - 1502'
Redbeds	1502 - 1622'
Rustler Anhydrite	1622 - 1740'
Salado Salt	1740 - 2650'
Anhydrite Stringers in Basil Salado	2650 - 2708'

The downhole pressure caused by a 400 psi maximum operating pressure would be 1777 psi. The fracture pressure of salt at 2650' is 2403 psi, this is well above the operating pressure and no fractures should be caused. (See Attachment "J")

B. Hydrology:

The primary water bearing formation is the Ogallala formation of Pliocene age. The Ogallala underlies the entire area of review and has an average thickness of 160'. Drawing AG-01 is a structure map on the base of the Ogallala and a cross section through selected wells. The cross section shows the Ogallala, and the salt section below it where the brine will be produced.

The Ogallala consists mostly of fine to very-fine sand but includes minor quantities of clay, silt, coarse sand and gravel. The movement of ground water through the Ogallala is to the Southeast at a rate of approximately 150 feet per year.

The ground water most likely to be affected by a spill/leak is approximately 65 feet deep. An analysis of this water, from the Kelly Coppedge water well, is contained in Attachment "G". Also contained in Attachment "G" is an analysis of the water used for injection.

There are 16 producing water wells well within the area of review. We have checked with the NM State Engineers Office in Roswell for the location of water wells in this

area. Attachment "D" is a map of the area with water wells located as best as can be from the available records. Also attached are records from the State Engineers Office on these water wells (See Attachment "L"). Attachment "E" is an ownership plat showing all producing oil and gas wells, injection wells, and abandoned oil and gas wells within a 1/4 mile radius of the brine well.

IV. PROCEDURES TO PROTECT GROUND WATER

A. Wells In Area of Review

There are eight (8) abandoned wells or shafts in the area of review which penetrate the injection zone. These wells have been plugged according to OCD requirements. Attachment "H" contains plugging records and completion information on these wells.

Attachment "D" shows the location of water wells within the area of review. Samples of the water produced from selected wells will be analyzed yearly for quality.

The system schematic (Drawing AG-02) shows locations of sample points used to obtain samples at the proposed brine well of water injected and brine produced for analysis.

B. Injection Well:

If there is a loss of mechanical integrity of the injection well, all operations will be suspended until remedial action can be taken to correct the potential source of water contaminations.

A loss of mechanical integrity will be detected by the following:

1. Five year pressure tests.
2. Comparing volumes injected and volumes produced.
3. Any sudden changes in injection pressures.

Prior to the start of operations, the well casing will be tested to 1000 psi. Also at regular intervals, at least every five years, the casing will be retested to 1000 psi to check for possible leaks. Agua, Inc. will pressure test the well as follows:

1. Remove tubing.
2. Set retrievable bridge plug at end of casing.
3. Pressure up on casing to 1000 psi.

4. Record pressures for 15 minutes on pressure recorder.

This procedure will verify that there are no leaks in the casing. Agua, Inc. will notify the EID one day before the test is conducted and submit a report of the test results.

The water injected and brine recovered will be metered by turbine meters located as shown on the system schematic (Drawing AG-02). The volumes injected and recovered will be compared to detect any underground losses.

C. Spills:

Spills will be prevented during loading by connecting trucks directly to the loading line before any valves are opened to allow brine to be pumped onto the trucks. After the trucks are loaded all lines will be cleared of brine and all valves will be closed before disconnecting to prevent spillage of brine water. All trucks will be loaded on a 30' X 45' concrete loading pad. This pad will be constructed such that any brine spilled will flow toward its center where a drain to the sump is located. The sump of the loading pad will be concrete lined. This will prevent any minor spills from contaminating ground water.

As this facility will only be producing brine, it is the main material which may be spilled. Small amounts of hydrocarbon residue inside the trucks could possibly be spilled if a truck is filled to overflowing. This will be prevented by careful monitoring of the trucks during loading. If a truck is overflowed, the brine and any other material spilled would be collected in the sump of the loading pad and later disposed of at an approved disposal well.

In the event of a major spill at the surface facilities the following will be done.

1. If a spill occurs, contaminated soil will be removed and disposed of at a location approved by the state.

A major spill would be any spill which causes brine to get off of the facility site. Agua, Inc. will report any significant spills and/or loss of mechanical integrity of the well to the EID as required in Section 1-203.A.1 and 5-208.B.1 of the WQCC regulations.

D. Plugging & Abandonment:

At such time when this injection well is ready for plugging and abandonment, the well will be plugged as per Attachment "I" (Plugging Procedure). This plugging procedure will

be approved before any plugging operations begin.

A plugging bond is offered as proof of financial responsibility to properly abandon this well. (See Attachment "M")

V. Flooding Potential

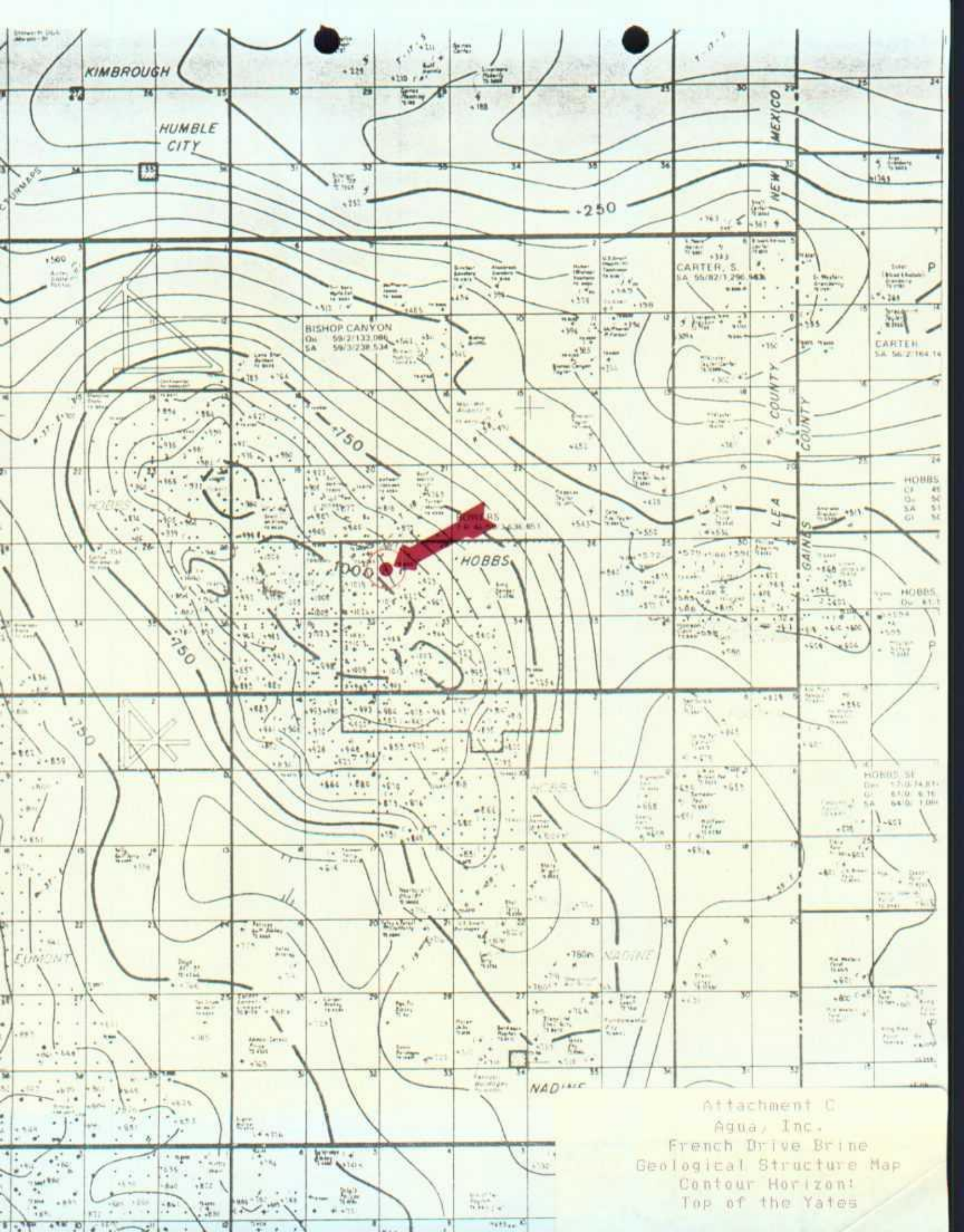
Attachment "F" is a map showing the flooding potential of the site. The location is on a very slight rise trending toward the South and Southeast. Drainage is away from the site to the North and Northeast. Areas to the West, South and Southeast are slightly higher but do fall off into low lying areas. Because of this, areal drainage from the higher areas into the site will be minimal.

VI. SIGN-OFF REQUIREMENT

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

R. W. Abbott
R. W. Abbott
Agua, Inc.

5/8/85
DATE



KIMBROUGH

HUMBLE CITY

MEXICO

NEW

CARTER, S.

CARTER, S.

COUNTY

COUNTY

LEA

GAINES

HOBBS

HOBBS

HOBBS

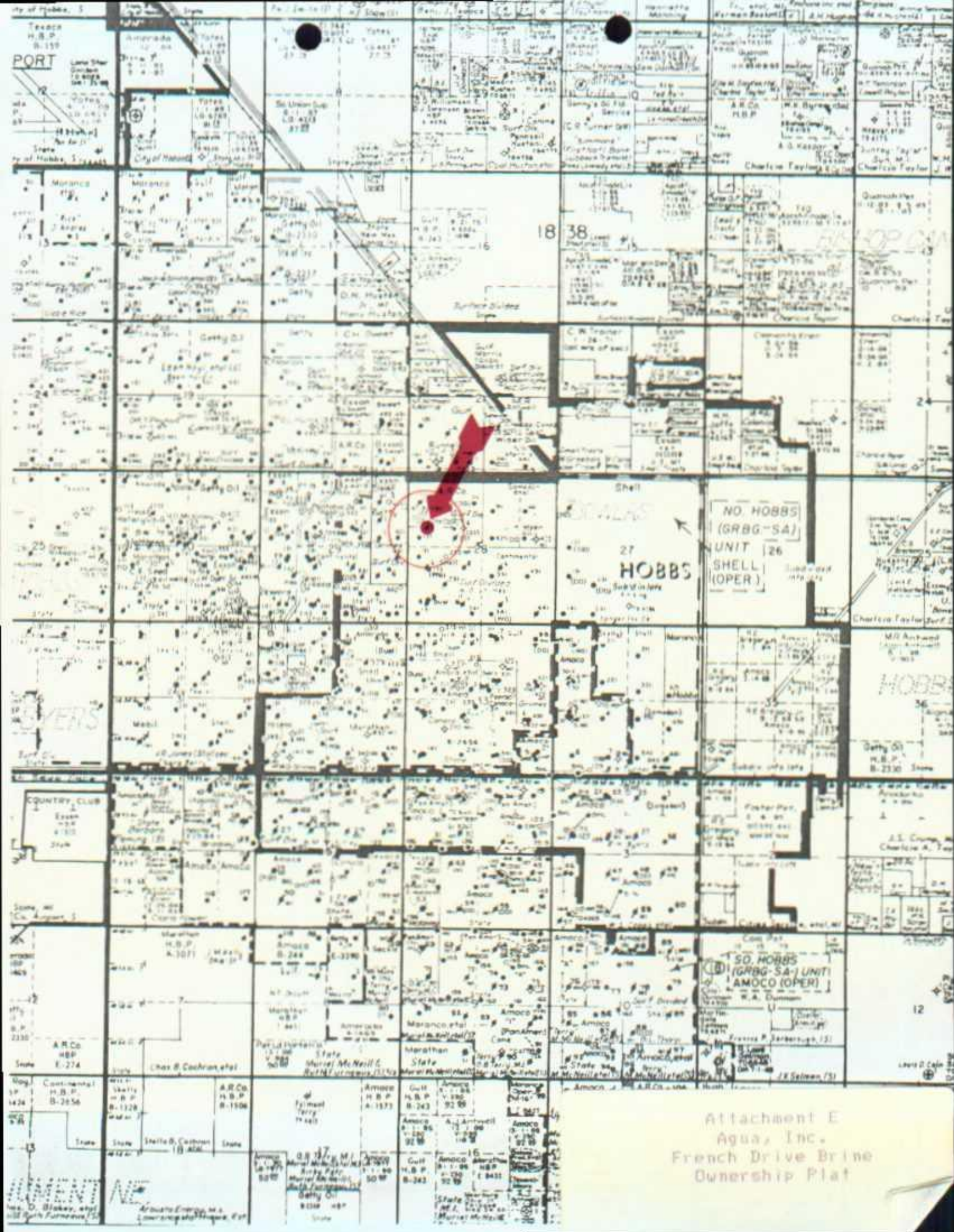
NADINE

NADINE

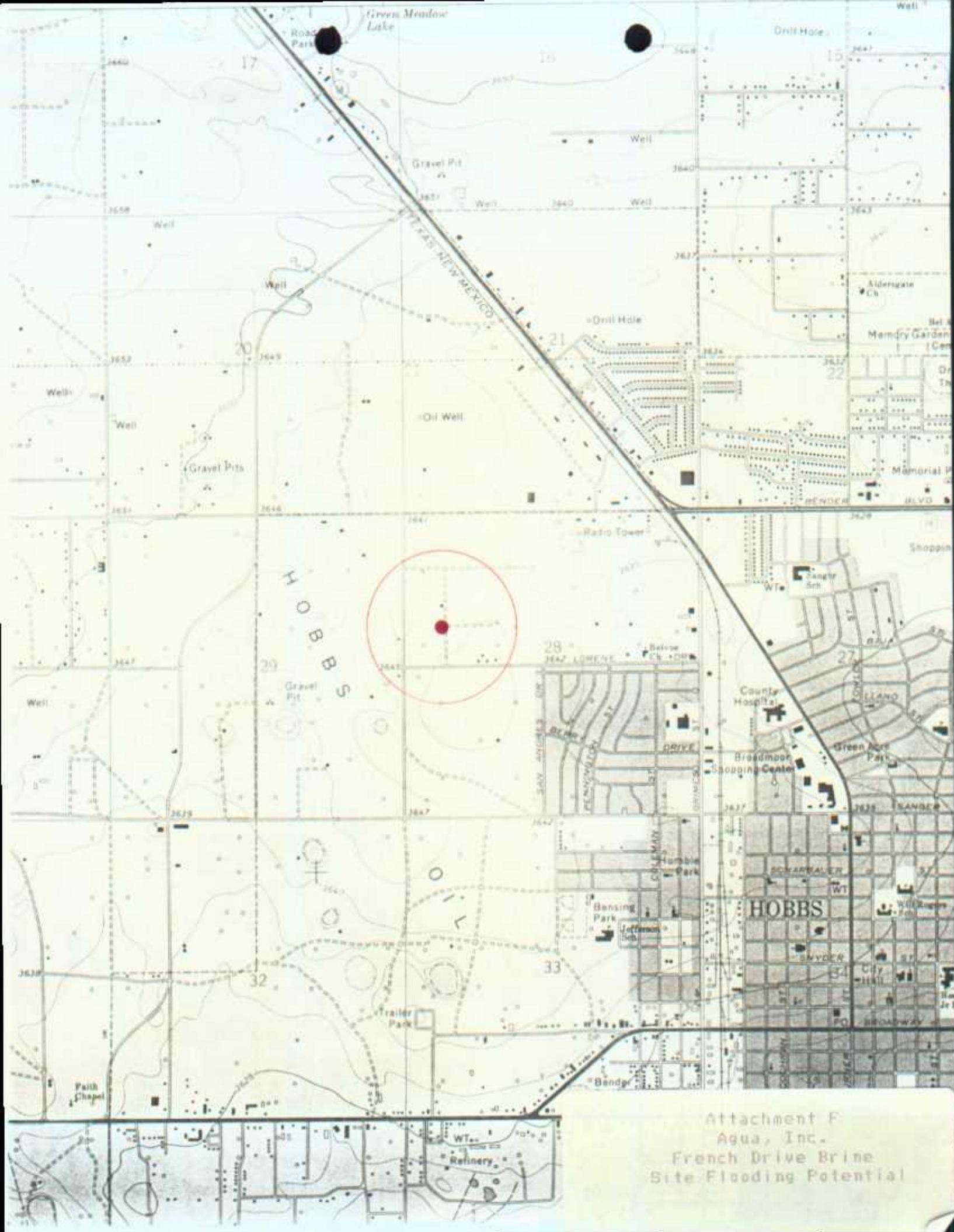
BISHOP CANYON

HOBBS

Attachment C
Aqua, Inc.
French Drive Brine
Geological Structure Map
Contour Horizon:
Top of the Yates



Attachment E
 Agua, Inc.
 French Drive Brine
 Ownership Plat



Attachment "G"

Water Analysis
Injected Water
Ground Water

Attachment "H"

Plugging Records of
P&A Wells Within the
Area of Review

P. O. BOX 1468
 MONAHANS, TEXAS 79756
 PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA
 MIDLAND, TEXAS 79701
 PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. J. T. Janica LABORATORY NO. 285670
P.O. Box 2188, Hobbs, NM 88240 SAMPLE RECEIVED 2-27-85
 RESULTS REPORTED 3-7-85

COMPANY Natural Resources Engineering, Inc. LEASE Agua, Inc. - French Drive Brine #1
 FIELD OR POOL 2. NW/4 of NW/4 of NW/4
 SECTION 28 BLOCK 2 SURVEY T-18 S R-38 E COUNTY Lea STATE NM
 SOURCE OF SAMPLE AND DATE TAKEN:

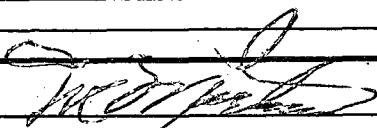
- NO. 1 Raw water - taken from City of Hobbs water supply.
- NO. 2 Raw water - taken from Kelly Coppedge water well.
- NO. 3 _____
- NO. 4 _____

REMARKS:

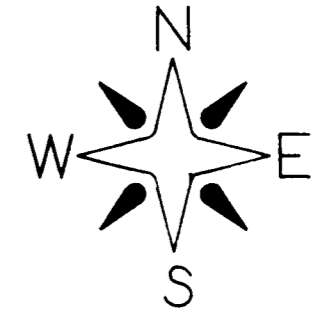
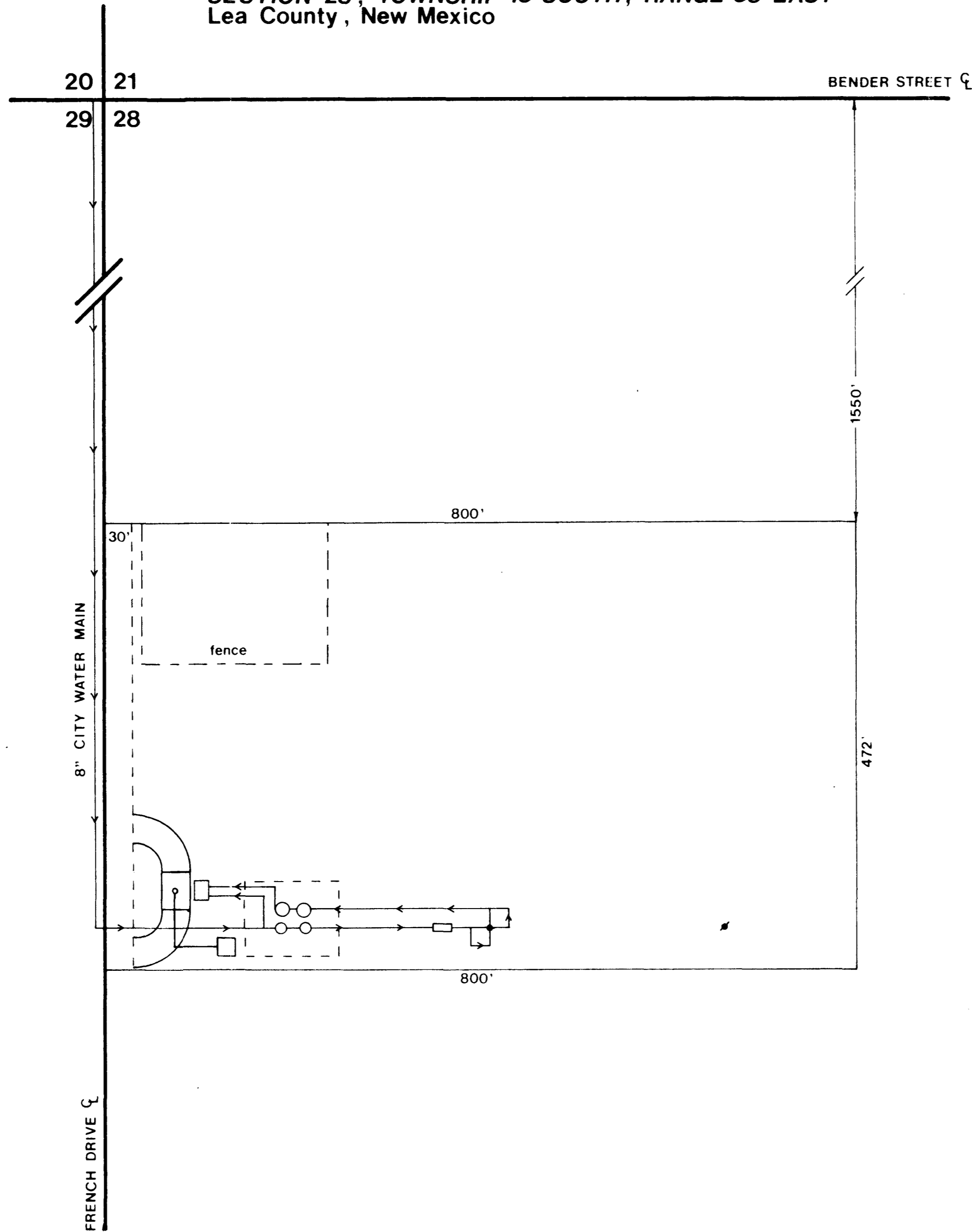
CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.				
pH When Sampled				
pH When Received				
Bicarbonate as HCO ₃				
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃				
Calcium as Ca				
Magnesium as Mg				
Sodium and/or Potassium				
Sulfate as SO ₄				
Chloride as Cl	75	51		
Iron as Fe				
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated				
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide				
Resistivity, ohms/m at 77° F.				
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	6.0	5.6		
Total Dissolved Solids, evaporated @ 180°C.	550	458		

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks Please feel free to contact us for any details or discussions concerning the above results.

By 
 Waylan C. Martin, M. A.

SECTION 28, TOWNSHIP 18 SOUTH, RANGE 38 EAST
Lea County, New Mexico



Symbols

- 100' 80' 3' dike
- loading pad
- sump
- loading station
- injection pump
- 1000 bbl brine tank
- 500 bbl fresh water tank
- ↖ w.d. grimes no. 5
- proposed new location
- flow path

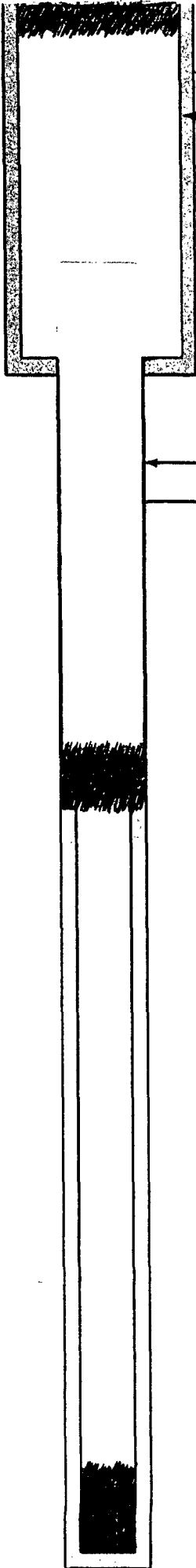
note: all lines buried to minimum of 24" beneath surface.
proposed new location 250' due west of w.d. grimes no. 5

AGUA, INC.		
SCALE: 1" = 100'	APPROVED BY:	DRAWN BY JDT
DATE: 8/19/85		REVISED
FRENCH DRIVE BRINE - WELL NO. 1		
FACILITY PLOT PLAN		DRAWING NUMBER

submitted by 8/27/85 letter

WELL BORE SKETCH

OPERATOR/LEASE/WELL Agua/W. D. Grimes/#5
 NRE JOB NUMBER AG01-001-001 DATE 1-30-85
 FIELD/POOL /
 PLUG BACK DEPTH 3222 KB ELEVATION 3643 est.



10 Sack plug
at surface

Hole Size 13"

SURFACE CASING:

Size 9-5/8" Weight Grade
 Set at 441' with 300 Sacks Cement
 Circulate Cement Circulated Sacks to Surface
 Remarks: Tested casing for 30 minutes at 500 psi
Held OK. No record of the number of sacks of cement
circulated to surface

Hole Size 9"

PRODUCTION CASING:

Size 7" Weight Grade
 Set at 3185 with 600 Sacks Cement
 Cement Top: Calculated Temperature Survey
 Remarks: Tested casing for 30 minutes at 1000 psi
Held OK,

7" Casing
shot off at
1342'
20 sack plug
across casing stub

TUBING:

Size Weight Grade
 Number of Joints Set at
 Packer Set at
 Bottom Arrangement:

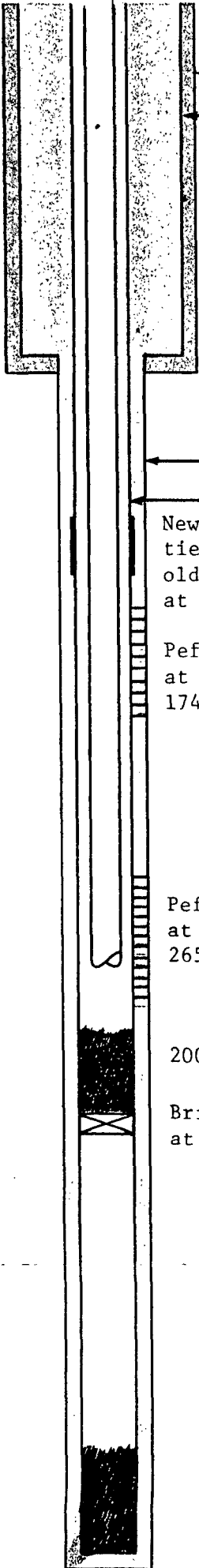
RODS:

Size Number
 Gas Anchor Set at
 Pump Set at
 Arrangement:

25 Sack plug
at bottom

WELL BORE SKETCH

OPERATOR/LEASE/WELL Agua / French Drive Brine / #1
 NRE JOB NUMBER AG01-001-001 DATE 2-5-85
 FIELD/POOL _____ / _____
 PLUG BACK DEPTH _____ KB ELEVATION 3643 est.



SURFACE CASING:

Size 9-5/8" Weight _____ Grade _____
 Set at 441' with 300 Sacks Cement
 Circulate _____ Cement Circulated _____ Sacks to Surface
 Remarks: No record of the number of sacks of
cement circulated to surface

Hole Size 9"

PRODUCTION CASING:

Size 7" Weight _____ Grade _____
 Set at 3185' with 350 Sacks Cement
 Cement Top: Calculated _____ Temperature Survey _____
 Remarks: Cement circulated to surface

Perforations
 at top of salt
 1740'

Perforations
 at base of salt
 2650'

200' plug

Bridge plug
 at 2900'

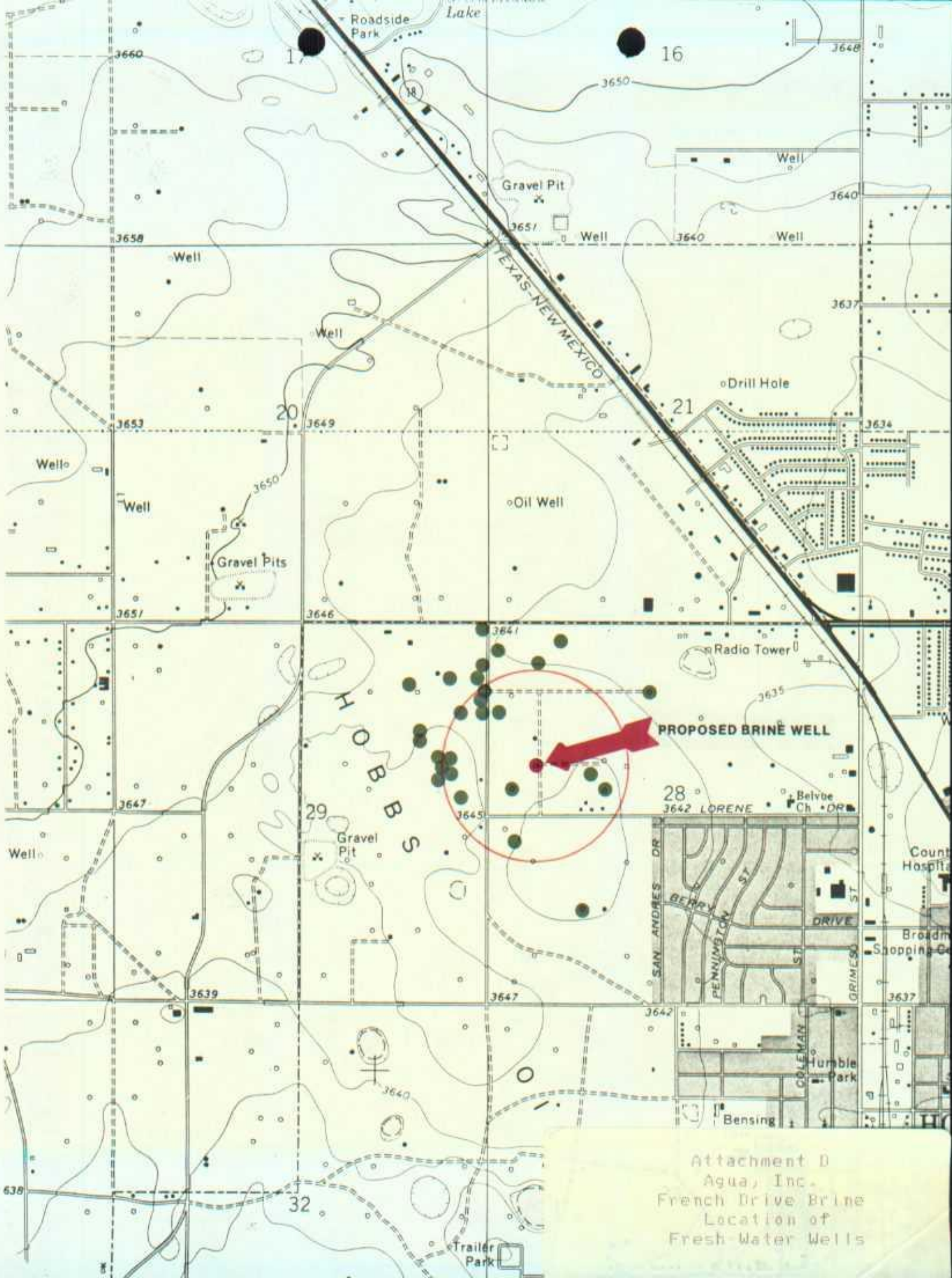
25 Sack plug
 at bottom

TUBING:

Size 4-1/2" Weight _____ Grade _____
 Number of Joints _____ Set at 2650'
 Packer Set at _____
 Bottom Arrangement: _____

RODS:

Size _____ Number _____
 Gas Anchor Set at _____
 Pump Set at _____
 Arrangement: _____



Attachment D
Aqua, Inc.
French Drive Brine
Location of
Fresh Water Wells



THE REPRODUCTION OF

THE

FOLLOWING

DOCUMENT (S)

CANNOT BE IMPROVED

DUE TO

THE CONDITION OF

THE ORIGINAL

#5 Shell Oil Co
FORM C-101
with #2
DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

NOTICE OF INTENTION TO DRILL

RECEIVED
JUN 27 1947

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.

Hobbs, New Mexico Place June 24, 1947 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 _____

Shell Oil Company, Incorporated H. D. Grimes Well No. 5 in SW/4
Company or Operator Lease
of Sec. 28, T. 18-S, R. 38-E, N. M. P.M., Hobbs Field, Lea County.
N.

The well is 1900 feet (N.) (SD of the south line and 660 feet (E.) (WD of the west line of Sec. 28, T 18-S, R 38-E.)

(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 H. D. Grimes

Address _____

If government land the permittee is _____

Address _____

The lessee is Shell Oil Company, Incorporated

Address Box 1509 Hobbs, Texas

AREA 640 ACRES
LOCATE WELL CORRECTLY

We propose to drill well with drilling equipment as follows: _____

Conventional Rotary Drilling Rig.

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: _____

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
<u>11"</u>	<u>8 5/8"</u>	<u>34</u>	<u>New</u>	<u>400</u>	<u>cemented</u>	<u>to surface</u>
<u>7 7/8"</u>	<u>5 1/2"</u>	<u>25.50</u>	<u>New</u>	<u>Approx. 3190' on top of Bovere Sand</u>	<u>cemented</u>	<u>to top of salt</u>

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 3190 feet.

Additional information:

Approved _____ 19____
except as follows:

Sincerely yours,

Shell Oil Company, Incorporated

Company or Operator

By H. D. Grimes

Position District Superintendent

Send communication regarding well to:

Name Shell Oil Company, Incorporated

Address Box 1557 Hobbs, New Mexico

OIL CONSERVATION COMMISSION
By Doc York
Title Oil & Gas Inspector

JUN 27 1947

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

RECEIVED JUL 25 1947

DUPLICATE

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

Table with 4 rows and 3 columns for reporting types: REPORT ON BEGINNING DRILLING OPERATIONS, REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL, REPORT ON RESULT OF TEST OF CASING SHUT-OFF, REPORT ON RESULT OF PLUGGING OF WELL, REPORT ON REPAIRING WELL, REPORT ON PULLING OR OTHERWISE ALTERING CASING, REPORT ON DEEPENING WELL.

Hobbs, New Mexico

July 21, 1947

Date

Place

OIL CONSERVATION COMMISSION, SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the

Shell Oil Company, Incorporated W. D. Grimes Well No. 5 in the

Company or Operator

Lease

SW/4 of Sec. 28, T. 18-S, R. 38-E, N. M. P. M.,

Bowers

Field,

Lea

County.

The dates of this work were as follows:

Notice of intention to do the work was submitted on Form 3-101 on June 24, 1947

and approval of the proposed plan was obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Spudded 1:00 p.m. 7-17-47.

Witnessed by Ray Moore Shell Oil Company, Inc. Head Roustabout

Name

Company

Title

Subscribed and sworn before me this 21st

I hereby swear or affirm that the information given above is true and correct.

day of July 1947

Name M. G. Brunner

Position District Superintendent

Notary Public

Representing Shell Oil Company, Incorporated Company or Operator

My commission expires My Commission Expires Sept. 16, 1950 Address Box 1457 Hobbs, New Mexico

Remarks:

APPROVED

Date JUL 25 1947

Ray Grimes Oil & Gas Industries

Title

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
MISCELLANEOUS NOTICES

RECEIVED
JUL 25 1947
HOBBBS OFFICE

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	<input checked="" type="checkbox"/>	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL			

Hobbs, New Mexico

July 18, 1947

Place

Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the _____

Shell Oil Company, Inc.
Company or Operator

V. D. Grimes
Lease

Well No. 5 in SW/4

of Sec 18, T. 18-S, R. 36-E, N. M. P. M., Bowers

Field.

Les

County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

Run 2 5/8-inch casing to 421 feet and cemented with 150 sacks cement. Cement did not circulate. Recemented from top of cement at 100 feet to surface with 45 sacks cement. Job Complete 2:00 p.m. 7-18-47. Will test casing shut-off at 2:00 p.m. 7-19-47

Approved _____
except as follows:

JUL 25 1947 19

Shell Oil Company, Incorporated
Company or Operator

By M. G. Brunner

Position District Superintendent
Send communications regarding well to

Name Shell Oil Company, Incorporated

Address Box 1457 Hobbs, New Mexico

OIL CONSERVATION COMMISSION

By [Signature]

Title Oil & Gas Inspector

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

DUPLICATE MISCELLANEOUS REPORTS ON WELLS

RECEIVED
JUL 25 1947
HOBBS OFFICE

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	<input checked="" type="checkbox"/>	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL	<input type="checkbox"/>		

July 21, 1947 Date

Hobbs, New Mexico Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the _____

Shell Oil Company, Incorporated W. D. Grimes Well No. 5 in the _____
Company or Operator Lease

SX/A of Sec. 28, T. 18-S, R. 38-S, N. M. P. M.,
Bozars Field, Lee County.

The dates of this work were as follows: 7-19-47

Notice of intention to do the work was (~~was not~~) submitted on Form C-102 on 7-18 19 47

and approval of the proposed plan was (was not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED:

Tested 8 5/8-inch casing with 1000 p.s.i. water pressure for 30 minutes. Held OK.
Drilled cement and tested water shut off with 500 p.s.i. water pressure for 30 minutes.
Held OK.

Witnessed by Ray Moore Name Shell Oil Company, Inc. Company Head Resident Title

Subscribed and sworn before me this 21st

I hereby swear or affirm that the information given above is true and correct.

Day of July, 19 47
Luise R. Davis
Notary Public

Name H. C. Brunner
Position District Superintendent
Representing Shell Oil Company, Incorporated
Company or Operator

My commission expires Sept. 16, 1950

Address Box 1457 Hobbs, New Mexico

Remarks:

APPROVED
Date JUL 25 1947

Ray Neuharth
Title

NEW MEXICO OIL CONSERVATION COMMISSION
 SANTA FE, NEW MEXICO
MISCELLANEOUS NOTICES

RECEIVED
 JUL 31 1947
HOBB'S OFFICE

DUPLICATE

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	<input checked="" type="checkbox"/>	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL			

Hobbs, New Mexico July 27, 1947
 Place Date

OIL CONSERVATION COMMISSION,
 Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the _____

Shell Oil Company, Incorporated V. D. Grimes Well No. 5 in SW/4
 Company or Operator Lease

of Sec. 28, T. 18-S, R. 38-E, N. M. P. M., Bowers Field.
Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

Run Caliper Survey, Run 4 1/2-inch O.D. casing to 3170 feet and cemented with 600 sacks cement. Plug down 11:00 p.m. 7-26-47. After 12 hours run temperature survey finding top cement at 1680 feet. Will test casing shut-off at 5:00 a.m. 7-28-47.

Approved JUL 31 1947, 19____
 except as follows:

Shell Oil Company, Incorporated
 Company or Operator

By H. G. Brunner

Position District Superintendent
 Send communications regarding well to

Name Shell Oil Company, Incorporated

Address Box 1457 Hobbs, New Mexico

OIL CONSERVATION COMMISSION

By Roy Garbrough

Title Oil & Gas Inspector

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

RECEIVED
JUL 31 1947
RECEIVED

DUPLICATE

MISCELLANEOUS REPORTS ON WELLS

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	X	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

July 29, 1947
Date

Hobbs, New Mexico
Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the _____

Shell Oil Company, Incorporated V. D. Grimas Well No. 5 in the _____
Company or Operator Lease

SW/4 of Sec. 28, T. 18-S, R. 38-2, N. M. P. M.,
Bowers Field, Lea County.

The dates of this work were as follows: 7-28-47

Notice of intention to do the work was (~~was not~~) submitted on Form C-102 on 7-27 19 47
and approval of the proposed plan was (was not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Tested 4 1/2-inch O.D. casing with 1000 p.s.i. water pressure for 30 minutes.
Held OK. Drilled cement and shoe and tested cement with 1000 p.s.i. water pressure
for 30 minutes. Held OK.

Witnessed by A. T. Guernsey Shell Oil Company, Inc. Jr. Engineer
Name Company Title

Subscribed and sworn before me this 29th
day of July, 19 47

I hereby swear or affirm that the information given above
is true and correct.

Name M. O. Brunner
Position District Superintendent

Notary Public

Representing Shell Oil Company, Incorporated
Company or Operator

My commission expires _____

Address Box 1457 Hobbs, New Mexico

Remarks:

APPROVED

JUL 31 1947

M. O. Brunner
Name
Oil & Gas Inspector
Title

Place Hobbs, New Mexico
Date July 30, 1947

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

Glenn Staley
Production Office
Hobbs, New Mexico.

Designate UNIT well is located in
72

NOTICE OF COMPLETION OF: (Lease) V. D. Grimes Well No. 5
1938 feet from 8 line: 660 feet from W line; S.T. & R
28, 18-1, 30-1

DATE STARTED July 17, 1947
DATE COMPLETED July 30, 1947
ELEVATION 3650 (est.)
TOTAL DEPTH S.L.M. 3200'
CABLE TOOLS _____ ROTARY TOOLS 3200'

CASING RECORD

SIZE <u>8 5/8"</u>	DEPTH <u>422</u>	SAX CEMENT <u>195</u>
SIZE <u>4 1/2"</u>	DEPTH <u>3170</u>	SAX CEMENT <u>600</u>
SIZE _____	DEPTH _____	SAX CEMENT _____

TUBING RECORD

SIZE 2-1/2" DEPTH 3198'

ACID RECORD

NO. GALS _____	NO. GTS. _____
NO. GALS _____	NO. GTS. _____
NO. GALS _____	NO. GTS. _____

FORMATION TOPS

Anhydrite 1625'
Top Salt 1720'
Base Salt 2085'
Red Sand _____
Brown Lime 2800'
White Lime _____
Oil or Gas Pay 3191' - 3197'
Water 3198'

Initial Production Test 179 Pumping _____ Flowing X
Test After Acid or Shot _____

Initial GAS VOLUME 136.42 MSCF/D 0.02 751

SCHEDULE NO. _____ DATE _____

PIPE LINE TAKING OIL Shell Pipe Line Corp.

REMARKS _____ COMPANY Shell Oil Company, Incorporated

SIGNED BY: E. G. Bruner
District Superintendent

SIZE OF HOLE	SIZE OF CASING	WHERE SET	SACKS CEMENT	METHOD USED	MUD QUANTITY	AMOUNT OF MUD USED
12 1/2"	8 1/2"	401	105	Plug & Plug	1.5	
7 7/8"	5 1/2"	3270	600	Plug & Plug	10.5	

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth Set _____
 Adapters—Material _____ Size _____

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT

Results of shooting or chemical treatment _____

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 3200 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

PRODUCTION

Put to producing July 30 1947
 The production of the first 24 hours was 179 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, Be 41.5 corrected
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____ **G.O.R. = 72**

EMPLOYEES

H. L. Yow Driller G. R. Young Driller
A. C. Clinginger Driller H. T. Green 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 so far as can be determined from available records.

Subscribed and sworn to before me this 30th

day of July 1947

Laura R. Davis
 Notary Public

My Commission expires My Commission Expires Sept. 16, 1950

Hobbs, New Mexico July 30, 1947
 Place Date

Name H. C. Branner H. C. Branner

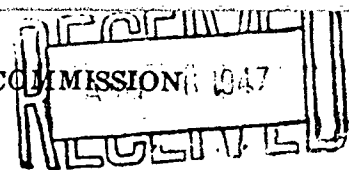
Position District Superintendent

Representing Shell Oil Company, Incorporated
 Company or Operator

Address Box 1457 Hobbs, New Mexico

FORMATION RECORD
NEW MEXICO OIL CONSERVATION COMMISSION 1947

Santa Fe, New Mexico



HOBBS OFFICE

WELL RECORD

AREA 640 ACRES
LOCATE WELL CORRECTLY

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 (?). SUBMIT IN TRIPPLICATE.

Shell Oil Company, Incorporated Box 1457 Hobbs, New Mexico
Company or Operator Address

W. D. Grimes Well No. 5 of Sec. 28 T. 18-S R. 38-N
Lease

R. 38-N N. M. P. M. Boomers Field Lea County Lea

Well is 3300 feet south of the North line and 4620 feet west of the East line of Sec. 28, T. 18-S R. 38-N

If State land the oil and gas lease is No. _____ Assignment No. _____

If patented land the owner is W. D. Grimes Address _____

If Government land the permittee is _____ Address _____

The Lessee is Shell Oil Company, Incorporated Address Box 1457 Hobbs, New Mexico

Drilling commenced July 17 19 47 Drilling was completed July 30 19 47

Name of drilling contractor Company Tools Address Box 1457 Hobbs, New Mexico

Elevation above sea level at top of casing 3646 feet.

The information given is to be kept confidential until Not Confidential 19 _____

OIL SANDS OR ZONES

No. 1, from 3191 to 3197 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	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED		PURPOSE
							FROM	TO	
<u>8 5/8"</u>	<u>520</u>	<u>8</u>	<u>Rebco.</u>	<u>409</u>	<u>Texas Pattern</u>				<u>Protection Oil String</u>
<u>4 1/2"</u>	<u>9.54</u>	<u>8</u>	<u>Met'l.</u>	<u>3158</u>	<u>Baker</u>				

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. BAGS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

RECEIVED
DEC 8 1953
OIL CONSERVATION COMMISSION
HOBBS OFFICE
(Form C-102)
Revised 1/53

MISCELLANEOUS NOTICES

Submit this notice in TRIPLICATE to the District Office, Oil Conservation Commission, before the work specified hereon. Copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Notice by Checking Below

NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO TEMPORARILY ABANDON WELL		NOTICE OF INTENTION TO DRILL DEEPER	
NOTICE OF INTENTION TO PLUG WELL	X	NOTICE OF INTENTION TO PLUG BACK		NOTICE OF INTENTION TO SET LINER	
NOTICE OF INTENTION TO SQUEEZE		NOTICE OF INTENTION TO ACIDIZE		NOTICE OF INTENTION TO SHOOT (Nitro)	
NOTICE OF INTENTION TO GUN PERFORATE		NOTICE OF INTENTION (OTHER)		NOTICE OF INTENTION (OTHER)	

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Hobbs, New Mexico
(Place)

December 4, 1953
(Date)

Gentlemen:

Following is a Notice of Intention to do certain work as described below at the.....

Shell Oil Company

Grimes

Well No. 5

in "L"

(Company or Operator)

(Unit)

NW 1/4 SW

1/4 of Sec. 28

T 18-S

R 38-E

NMPM,

Bowers

Pool

(40-acre Subdivision)

Lea

County.

FULL DETAILS OF PROPOSED PLAN OF WORK
(FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS)

We propose to plug and abandon Grimes No. 5 as follows:

- (1) Load hole with mud
- (2) Spot cement plug in 4-1/2" casing shoe at approximately 3150'
- (3) Determine freeze-point of 4-1/2" casing
- (4) Shoot-off casing above freeze-point and pull recoverable casing
- (5) Spot plug in 4-1/2" casing below shoot-off point
- (6) Spot plug across shoe of 8-5/8" casing at approximately 420'
- (7) Spot cement surface plug and erect 4" marker

Approved DEC 9 1953, 19.....
Except as follows:

Approved
OIL CONSERVATION COMMISSION

By *S. J. Stanley*
Engineer District 1

Title

Shell Oil Company

Company or Operator

By F. D. Leigh Original signed by
F. D. Leigh

Position Division Mechanical Engineer

Send Communications regarding well to:

Name Shell Oil Company

Address Box 1957, Hobbs, New Mexico

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

(Form C-103)
RECEIVED
DEC 17 1953
OIL CONSERVATION COMMISSION
HOBBS OFFICE

MISCELLANEOUS REPORTS ON WELLS

Submit this report in TRIPLICATE to the District Office, Oil Conservation Commission, within 10 days after the work specified is completed. It should be signed and filed as a report on Beginning Drilling Operations, Results of test of casing shut-off, result of plugging of well, result of well repair, and other important operations, even though the work was witnessed by an agent of the Commission. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Report by Checking Below

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF PLUGGING WELL	<input checked="" type="checkbox"/>	REPORT ON RECOMPLETION OPERATION		REPORT ON (Other)	

December 16, 1953
(Date)

Hobbs, New Mexico
(Place)

Following is a report on the work done and the results obtained under the heading noted above at the

Shell Oil Company
(Company or Operator)

Grimes
(Lease)

Lea County Casing Pullers
(Contractor)

Well No. 5 in the NW 1/4 SW 1/4 of Sec. 28

T. 18-S, R. 28-E, NMPM, Bowers Pool, Lea County.

The Dates of this work were as follows: December 13 thru 15, 1953

Notice of intention to do the work (was) ~~crossed~~ submitted on Form C-102 on December 4, 1953,
(Cross out incorrect words)

and approval of the proposed plan (was) ~~crossed~~ obtained.

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Plugged and abandoned Grimes No. 5 as following:

- (1) Loaded hole with mud
- (2) Spotted 10 sack cement plug at 3150' in 4-1/2" casing
- (3) Shot and pulled 1200' of 4-1/2" casing
- (4) Ran 2" tubing to 1230' and spotted 10 sack cement plug in 4 1/2" casing
- (5) Spotted 3 sack cement plug in 8-5/8" casing at surface and erected 4" x 4" marker as required by Rule 202. Well PLUGGED & ABANDONED 12-15-53

Witnessed by H. B. Brooks Shell Oil Company Production Foreman
(Name) (Company) (Title)

Approved: OIL CONSERVATION COMMISSION

F. A. Johnson
(Name)

Oil & Gas Inspector

JAN 29 1954

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

Original signed by
Name: F. D. Leigh F. D. Leigh
Position: Division Mechanical Engineer
Representing: Shell Oil Company

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

RECORDED
AUG 29 1947
HOBBBS OFFICE

ORIGINAL

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	X	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

August 25, 1947

Hobbs, New Mexico

Date

Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.
Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the _____

Shell Oil Company, Incorporated W. D. Grimes Well No. 8 in the _____
Company or Operator Lease

SW/4 of Sec. 28, T. 18-S, R. 38-E, N. M. P. M.,
Bowers Field, Lea County.

The dates of this work were as follows: 8-24-47

Notice of intention to do the work was (~~was not~~) submitted on Form C-102 on 8-25-47 19____
and approval of the proposed plan was (was not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Tested 8 5/8-inch casing with 1000 p.s.i. water pressure for 30 minutes. Held OK.

Drilled plug. Tested cement job with 600 p.s.i. for 30 minutes. Held OK.

Witnessed by George Goodpasture Shell Oil Company, Incorporated Prod. Foreman
Name Company Title

Subscribed and sworn before me this 25th
day of August, 1947

I hereby swear or affirm that the information given above is true and correct.

John R. Tamm
Notary Public

Name M. C. Brunner
Position District Superintendent

Representing Shell Oil Company, Incorporated
Company or Operator

(My commission expires) My Commission Expires Sept. 16, 1950

Address Box 1457 Hobbs, New Mexico

Remarks:

APPROVED
AUG 29 1947

Roy Yarborough
Name

Oil & Gas Inspector
Title

Title

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

DUPLICATE

MISCELLANEOUS NOTICES

RECEIVED
AUG 29 1947
HOBBES OFFICE

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent by _____ begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as _____ ed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	<input checked="" type="checkbox"/>	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL			

Hobbs, New Mexico August 25, 1947

Place

Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the _____

Shell Oil Company, Incorporated M. D. Grimes Well No. 8 in SW/4
Company or Operator Lease

of Sec. 28, T. 18-S, R. 38-E, N. M. P. M., Dowers Field
Lee County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

Run 8 5/8-inch casing to 415 feet and circulated with 200 sacks cement.

Job complete 1:15 P.M. 8-23-47. Will test casing shut-off at 1:15 P.M. 8-24-47.

Approved _____, 19____
except as follows: AUG 29 1947

Shell Oil Company, Incorporated
Company of Operator

By M. G. Brunner
M. G. Brunner

Position District Superintendent
Send communications regarding well to

Name Shell Oil Company, Incorporated

Address Box 1457 Hobbs, New Mexico

OIL CONSERVATION COMMISSION,
By Roy Gardner
Title Oil & Gas Inspector

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

RECEIVED SEP 2 1947 HOBBS OFFICE

DUPLICATE

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

Table with 4 rows and 2 columns of report types: REPORT ON BEGINNING DRILLING OPERATIONS, REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL, REPORT ON RESULT OF TEST OF CASING SHUT-OFF, REPORT ON RESULT OF PLUGGING OF WELL, REPORT ON REPAIRING WELL, REPORT ON PULLING OR OTHERWISE ALTERING CASING, REPORT ON DEEPENING WELL.

August 25, 1947

Hobbs, New Mexico

Date

Place

OIL CONSERVATION COMMISSION, SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the

Shell Oil Company, Incorporated W. D. Grimes Well No. 8 in the Company or Operator Lease

SW/4 of Sec. 28, T. 18-S, R. 38-E, N. M. P. M.,

Bovars Field, Lea County.

The dates of this work were as follows: 8-23-47

Notice of intention to do the work was (was not) submitted on Form C-102 on 8-18 1947

and approval of the proposed plan was (was not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Spudded 1:30 A.M. 8-23-47.

Witnessed by George Goodpasture Shell Oil Company, Incorporated Prod. Foreman Name Company Title

Subscribed and sworn before me this 25th

I hereby swear or affirm that the information given above is true and correct.

day of August, 1947

Name M. C. Brunner

Position District Superintendent

Representing Shell Oil Company, Incorporated Company or Operator

Notary Public

My Commission Expires Sept. 16, 1950

My commission expires

Address Box 1457 Hobbs, New Mexico

Remarks:

APPROVED

Date SEP 2 1947

Notary Public Name Title OIL & GAS INSPECTION

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

DUPLICATE MISCELLANEOUS NOTICES

RECEIVED SEP 8 1947 ROBERTS OFFICE

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications, if advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	<input checked="" type="checkbox"/>	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	<input type="checkbox"/>
NOTICE OF INTENTION TO CHANGE PLANS	<input type="checkbox"/>	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	<input type="checkbox"/>
NOTICE OF INTENTION TO REPAIR WELL	<input type="checkbox"/>	NOTICE OF INTENTION TO PLUG WELL	<input type="checkbox"/>
NOTICE OF INTENTION TO DEEPEN WELL	<input type="checkbox"/>		<input type="checkbox"/>

Hobbs, New Mexico August 29, 1947 Place Date

OIL CONSERVATION COMMISSION, Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the Shell Oil Company, Incorporated, V. D. Orinas, Well No. 8 in SW/4 of Sec. 28, T. 18-S, R. 28-E, N. M. P. M., Rowers, Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

Ran 4 1/2-inch casing to 3180 feet and cemented with 850 sacks common cement. Plug down at 5:20 P.M. 8-29-47. Will test casing shut-off at 5:20 P.M. 8-30-47.

Approved except as follows: SEP 8 1947 19

Shell Oil Company, Incorporated Company or Operator By M. C. Brunner District Superintendent Position Send communications regarding well to Name Shell Oil Company, Incorporated Address Box 1457 Hobbs, New Mexico

OIL CONSERVATION COMMISSION By Roy Yarbrough Title Oil & Gas Inspector

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth Set _____
 Adapters—Material _____ Size _____

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL BRAND	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT

Results of shooting or chemical treatment _____

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 3230 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

PRODUCTION

Put to producing Sept. 3, 1947
 The production of the first 24 hours was 163 barrels of fluid of which 99 8/10 % was oil; 0 % emulsion; 2/10 % water; and 0 % sediment. Gravity, Be 41.5° A.P.I. corrected
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____ **G.O.R. = 275**

EMPLOYEES

H. T. Green Driller G. R. Young Driller
J. A. Arnold Driller A. G. Cloninger 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 so far as can be determined from available records.

Subscribed and _____ to before me this 3rd

Hobbs, New Mexico Sept. 3, 1947
Place Date

19 47
R. Davis
 Notary Public

Name M. C. Brunner
 Position District Superintendent

Representing Shell Oil Company, Incorporated
Company or Operator

Address Box 1457 Hobbs, New Mexico.

My Commission Expires Sept. 16, 1950

UPL. LAL

FORMATION RECORD

SEP 11 1947
RECEIVED
MISSIONS OFFICE

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

AREA 640 ACRES
LOCATE WELL CORRECTLY

Mail to Oil Conservation Commission, Santa Fe, New Mexico, 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 (N) SUBMIT IN TRIPLICATE.

Shell Oil Company, Incorporated
Company or Operator

Box 1457 Hobbs, New Mexico

Y. D. Grines
Lessee

Well No. 8

In 34/4

of Sec. 28

T. 18-S

R. 38-S

N. M. P. M. Bowers

Field. Lea

County.

Well is 3300 feet south of the North line and 3300 feet west of the East line of Section 28, T 18-S, R 38-S

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

If patented land the owner is Y. D. Grines

Address

If Government land the permittee is

Address

The Lessee is Shell Oil Company, Incorporated

Address Box 1457 Hobbs, New Mexico

Drilling commenced August 23, 1947

1947

Drilling was completed September 3, 1947

Name of drilling contractor Company Tools

Address Box 1457 Hobbs, New Mexico

Elevation above sea level at top of casing 3646 feet.

The information given is to be kept confidential until not confidential 19

OIL SANDS OR ZONES

No. 1, from 3215 to 3221 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	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED		PURPOSE
							FROM	TO	
8 5/8"	32	8	Repla.	102	Texas pattern				water protection
4 1/2"	9.54	8	Int'l.	316	Int'l.				oil string.

MUDDING AND CEMENTING RECORD

Place Hobbs, New Mexico
Date September 3, 1947

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

Glenn Staley
Proration Office
Hobbs, New Mexico.

Designate UNIT well is located in
"K"

NOTICE OF COMPLETION OF: (Lease) W. D. Grimes Well No. 8
1980 feet from South line: 1980 feet from West line; S.T. & R
28, 18-a, 38-a

DATE STARTED August 23, 1947
DATE COMPLETED September 3, 1947
ELEVATION 3658 B.F.
TOTAL DEPTH S.L.M. 3230
CABLE TOOLS _____ ROTARY TOOLS X

CASING RECORD

SIZE	<u>8 5/8"</u>	DEPTH	<u>415'</u>	SAX CEMENT	<u>200</u>
SIZE	<u>4 1/2"</u>	DEPTH	<u>3180'</u>	SAX CEMENT	<u>850</u>
SIZE	_____	DEPTH	_____	SAX CEMENT	_____

TUBING RECORD

SIZE 2 3/8" DEPTH 3227

ACID RECORD

NO. GALS	_____	NO. BBS.	_____
NO. GALS	_____	NO. BBS.	_____
NO. GALS	_____	NO. BBS.	_____

FORMATION TOPS

Anhydrite 1585
Top Salt 1785
Base Salt 2678
Red Sand _____
Brown Lime 2800
White Lime _____
Oil or Gas Pay 3215
Water _____

Initial Production Test 149 10/21.5 hrs. Dumping _____ Flowing X
Test After Acid or Shot _____

Initial GAS VOLUME 45 MCF (G.O.R. 295)

SCHEDULE NO. _____ DATE _____

PIPE LINE TAKING OIL Shell Pipe Line Corporation

REMARKS _____ COMPANY Shell Oil Company, Incorporated

SIGNED BY: N. G. Brunner
District Superintendent

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

RECEIVED
SEP 30 1953
OIL CONSERVATION COMMISSION
HOBBS, NEW MEXICO

MISCELLANEOUS NOTICES

Submit this notice in TRIPLICATE to the District Office, Oil Conservation Commission, before the work specified is to begin. It will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Notice by Checking Below

NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO TEMPORARILY ABANDON WELL		NOTICE OF INTENTION TO DRILL DREEPER	
NOTICE OF INTENTION TO PLUG WELL	X	NOTICE OF INTENTION TO PLUG BACK		NOTICE OF INTENTION TO SET LINER	
NOTICE OF INTENTION TO SQUEEZE		NOTICE OF INTENTION TO ACIDIZE		NOTICE OF INTENTION TO SHOOT (Nitro)	
NOTICE OF INTENTION TO GUN PERFORATE		NOTICE OF INTENTION (OTHER)		NOTICE OF INTENTION (OTHER)	

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Hobbs, New Mexico
(Place)

September 28, 1953
(Date)

Gentlemen:

Following is a Notice of Intention to do certain work as described below at the.....

Shell Oil Company (Company or Operator) Grimes Well No. 8 in "K" (Unit)

NW $\frac{1}{4}$ SW $\frac{1}{4}$ of Sec. 28, T. 18-S, R. 38-E, NMPM., Bowers Pool

Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK
(FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS)

We propose to Plug and Abandon Grimes No. 8 as follows:

- (1) Load hole with mud
- (2) Spot cement plug in 4-1/2" casing shoe at approximately 3180'
- (3) Shoot off 4-1/2" casing above freeze point and pull recoverable casing
- (4) Spot cement plug across 8-5/8" casing shoe at approximately 415'
- (5) Set cement surface plug and erect 4" marker as required by Rule 202

Send in hole status

Approved SEP 30 1953, 19____
Except as follows:

Shell Oil Company
Company or Operator
By F. D. Leigh Original signed by F. D. Leigh

Position Division Mechanical Engineer
Send Communications regarding well to:

Approved
OIL CONSERVATION COMMISSION
By [Signature]
The Engineer District 1

Name Shell Oil Company
Address Box 1957, Hobbs, New Mexico

RECEIVED

(Form C-103)
Revised 7/1/52)

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION OCT 6 1953
Santa Fe, New Mexico

OIL CONSERVATION COMMISSION
HOBBS OFFICE

MISCELLANEOUS REPORTS ON WELLS

Submit this report in TRIPLICATE to the District Office, Oil Conservation Commission, within 10 days after the work specified is completed. It should be signed and filed as a report on Beginning Drilling Operations, Results of test of casing shut-off, result of plugging of well, result of well repair, and other important operations, even though the work was witnessed by an agent of the Commission. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Report by Checking Below

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF PLUGGING WELL	X	REPORT ON RECOMPLETION OPERATION		REPORT ON (Other)	

October 5, 1953
(Date)

Hobbs, New Mexico
(Place)

Following is a report on the work done and the results obtained under the heading noted above at the

Shell Oil Company
(Company or Operator)

Grimes
(Lease)

Hobbs Pipe & Supply
(Contractor)

Well No. 8 in the NW 1/4 SW 1/4 of Sec. 28

T. 18-S, R. 38-E, NMPM, Bowers Pool, Lea County.

The Dates of this work were as follows: September 30 thru October 3, 1953

Notice of intention to do the work (was) (~~was~~) submitted on Form C-102 on September 28, 1953,
(Cross out incorrect words)

and approval of the proposed plan (was) (~~was~~) obtained.

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Plugged and abandoned Grimes No. 8 as following:

- (1) Loaded hole with mud
- (2) Spotted 6 sacks cement plug in 4-1/2" casing at 3180'. Fill up to 3120'.
- (3) Shot and pulled 1060' of 4-1/2" casing
- (4) Spotted 60' cement plug from 1260' to 1320' in 4-1/2" casing
- (5) Spotted 5 sack cement plug at 430'
- (6) Spotted 3 sack cement plug at surface in top of 8-5/8" casing and erected 4" marker as required by Rule 202, Well PLUGGED & ABANDONED 10-3-53.

Witnessed by H. B. Brooks Shell Oil Company Production Foreman
(Name) (Company) (Title)

Approved: OIL CONSERVATION COMMISSION

[Signature]
(Name)

Oil & Gas Inspector

JAN 29 1954

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

Original signed by Name F. D. Leigh F. D. Leigh

Position Division Mechanical Engineer

Representing Shell Oil Company

Address Box 1957, Hobbs, New Mexico

G Sinclair
Form C-101
Unit # F

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

DUPLICATE

NOTICE OF INTENTION TO DRILL

RECEIVED
OCT 9 1947
HOOPER OFFICE

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 instructions in Rules and Regulations of the Commission.

Tulsa, Oklahoma

October 7, 1947

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 _____

Repollo Oil Company

W. D. Grimes

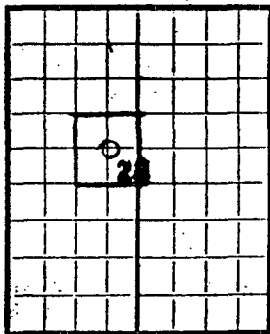
Well No. **6** in **SE NW**

Company or Operator

Lease

of Sec. **28**, T. **18-S**, R. **38-E**, N. M., P. M., **Hobbs** Field, **Lea** County.

The well is **660** feet (N.) ~~xxx~~ of the **South** line and **660** feet ~~xxx~~ (W.) of the **East** line of **SE NW**



AREA 640 ACRES

LOCATE WELL CORRECTLY

(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 **See List Attached**

Address _____

The lessee is **Repollo Oil Company**

Address **P.O. Box 521 - Tulsa 2, Oklahoma**

We propose to drill well with drilling equipment as follows: _____

Rotary

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: _____

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	Seals Cement
12-1/2	9-5/8	40	New	425'	Cemented	200
8-3/4	7	23	"	3225'	"	600

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 **1350** feet.

Additional information:

Approved OCT 9 1947, 19____
except as follows:

Sincerely yours,

REPOLLO OIL COMPANY

By *[Signature]*
Don H. Kelsey
Vice-President

Position _____

Send communications regarding well to:

Name **Don H. Kelsey**

Address **P.O. Box 521 - Tulsa 2, Oklahoma**

OIL CONSERVATION COMMISSION

By *[Signature]*

Title **OIL & GAS INSPECTOR**

DUPLICATE

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

RECEIVED
DEC 12 1947

HOBBS OFFICE

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS	<input checked="" type="checkbox"/>	REPORT ON REPAIRING WELL	<input type="checkbox"/>
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL	<input type="checkbox"/>	REPORT ON PULLING OR OTHERWISE ALTERING CASING	<input type="checkbox"/>
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	<input type="checkbox"/>	REPORT ON DEEPENING WELL	<input type="checkbox"/>
REPORT ON RESULT OF PLUGGING OF WELL	<input type="checkbox"/>		<input type="checkbox"/>

11-6-47

Hobbs New Mexico

Date

Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the _____
Repollo Oil Company **H. D. Grimes** Well No. **6** in the _____
 Company or Operator Lease
NW/4 of Sec. **33**, T. **18E**, R. **38E**, N. M. P. M.,
Bowers Field, **Lea** County.

The dates of this work were as follows: 11-7-1947

Notice of intention to do the work was (~~4444~~) submitted on Form C-102 on _____ 19____
and approval of the proposed plan was (~~4444~~) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

COMMENCED DRILLING AT 6.00 AM 11-7-1947

Witnessed by **Bill Clark** **Clay & Cackle** **Driller**
 Name Company Title

Subscribed and sworn before me this _____

I hereby swear or affirm that the information given above is true and correct.

8th day of **November**, 1947

Name **[Signature]**

Position **Dist. Subt**

Notary Public

Representing **Repollo Oil Company**

Company or Operator

My commission expires **2-4-50**

Address **Hobbs New Mexico**

Remarks: **APPROVED**

Date **DEC 12 1947**

[Signature]
Name

OIL & GAS INSPECTOR

Title

OIL CONSERVATION COMMISSION
 Santa Fe, New Mexico
MISCELLANEOUS REPORTS ON WELLS

DEC 12 1947

Submit this report in triplicate to the Oil Conservation Commission or its proper agent with the following work specified. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	XX	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

11 - 18 - 1947

Hobbs New Mexico

Date

Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the _____

Repollo Oil Company

W. D. Grimes

Well No. **6**

in the _____

NW Company or Operator

Lease

of Sec. **28**

T. **18S**

R. **38N**

N. M. P. M.,

Bowers

Field,

Lea

County.

The dates of this work were as follows:

November, 18, 1947

Notice of intention to do the work was (~~made~~) submitted on Form C-102 on 11-14 1947

and approval of the proposed plan was (was not) obtained: (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Tested 7" OD. casing set at 3190 Ft from surface with 1200# pump pressure, tested OK. 11-18-47

Witnessed by Mr. Lee Durham
Name

Clay & Gackie Driller
Company Title

Subscribed and sworn before me this _____

I hereby swear or affirm that the information given above is true and correct.

12th day of November 1947

Name [Signature]

Position Dist Supt.

Representing Repollo Oil Company
Company or Operator

Address Hobbs New Mexico

Notary Public

Commission expires 2-4-50

Remarks **APPROVED**

Date DEC 12 1947

[Signature]
Name
OIL & GAS INSPECTOR
Title

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

MISCELLANEOUS NOTICES

RECEIVED
DEC 12 1947
RECEIVED

HOBBS OFFICE

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	<input checked="" type="checkbox"/>	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL			

Hobbs New Mexico

11-14-47

Place

Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the _____
Repollo Oil Company W. D. Grimes Well No. 6 in _____
Company or Operator Lease
of Sec. 28, T. 189, R. 38E, N. M. P. M., Bowers Field
Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

To set 3190 ft of 7" OD from surface and cement w/ 800 sacks common cement on November, 15-1947.

Will drill plug and test in 36 hours.

DEC 12 1947

Approved _____, 19____
except as follows:

Repollo Oil Company

By [Signature]
Position Dist Supt.

Name Repollo Oil Company

Address Hobbs New Mexico

OIL CONSERVATION COMMISSION,
By [Signature]
Title OIL CAS INSPECTOR

DUPLICATE

MISCELLANEOUS NOTICES

RECEIVED
DEC 1 2 1947
RECEIVED

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified herein begin. A copy will be returned to the sender on which will be given the approval, with any ^{Hobbs Office} ~~changes~~ ^{changes} or ~~rejection~~ ^{rejection} by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	IX	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL			

Hobbs New Mexico

11- 7- 1947

Place Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the _____
Repollo Oil Company W. D. Grimes Well No. **6** in **NW**

 Company or Operator _____ Lease _____
 of Sec. **28**, T. **16S**, R. **38 E**, N. M. P. M., **Bowers** Field.
Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

To set 437' of 33.6# 9-5/8" OD casing set at 441' from surface and cement with 300 sacks common cement by Halliburton at 9.30 AM 11-8-47.

Will drill plug and test in 6 hrs.

Approved _____, 1947
except as follows:

OIL CONSERVATION COMMISSION
By *W. J. [Signature]*
Title *Ch. of GAS INSPECTOR*

Repolla Oil Company
Company or Operator _____
By *[Signature]*
Position *Dist. Supt*
Send communications regarding well to
Name *W. B. Rhoads*
Address *Hobbs New Mexico*

TRIPPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

MISCELLANEOUS NOTICES

RECEIVED
RECEIVED

HOBBS OFFICE

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF		NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	XX
NOTICE OF INTENTION TO DEEPEN WELL			

Hobbs New Mexico

11-24-47

Place

Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the

Repollo Oil Company

d. D. Grimes

Well No. 6

in NW

Company or Operator

Lease

of Sec 28

T. 183

R. 384

N. M. P. M.

Bowers

Field

Lea

County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

To plug and abandon well, Cement bottom of hole , shoot off 7" OD casing, ~~pull~~ plug hole.

Total depth 3325' No oil or gas.

DEC 12 1947

Approved _____, 19____
except as follows:

Repollo Oil Company

Company or Operator

By [Signature]

Position Dist. Supt.

Send communications regarding well to

W. H. Rhoads

Name

Address Hobbs New Mexico

OIL CONSERVATION COMMISSION,

By [Signature]

Title OIL & GAS INSPECTOR

DUPLICATE

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

RECEIVED
DEC 12 1947
RECEIVED

HOBBS OFFICE

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	X	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

11-10-1947

Hobbs New Mexico

Date

Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the

Repollo Oil Company

W. D. Grimes

Well No. **6**

in the

NW Company or Operator

Lease

of Sec. **28**

T. **189**

R. **38E**

N. M. P. M.,

Bowers Field,

Lea

County.

The dates of this work were as follows: **11-8-1947**

Notice of intention to do the work was (~~was not~~) submitted on Form C-102 on **11-7-1947** 19

and approval of the proposed plan was (was not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Tested 9-5/8" OD Casing set @ 441 Ft w/ 500# pump pressure for 30 Min. Tested Ok 9.30 PM 11-10-47

Witnessed by **Mr. Lee Durham** **Clay & Gackle** **Driller**
Name Company Title

Subscribed and sworn before me this **12th** day of **November**, 19**47**

I hereby swear or affirm that the information given above is true and correct.

Name **M. B. Rhys**
Position **Dist. Supt.**

Notary Public

Representing **Repollo Oil Company**

Company or Operator

Address **Hobbs New Mexico**

Remarks: **APPROVED**

Date **11-10-47**

Lee Durham
Name

Oil & Gas Inspector
Title

FORMATION RECORD

FROM	TO	THICK IN FEET	FORMAT
0	100	100	Caliche
100	300	200	Sand & red Bed
300	450	150	Red bed & red rock
450	760	310	Red Bed
760	1141	381	Red bed & shells
1141	1522	381	Red rock & blue shale
1522	1615	93	Red rock & shells
1615	1676	61	Anhydrite & red rock
1676	1715	39	Anhydrite
1715	1835	120	Shale & shells
1835	2115	280	Salt & Anhydrite
2115	2600	485	do do
2600	2677	77	Anhydrite & Salt
2677	2736	59	do & red rock
2736	2785	49	Anhydrite
2785	2805	20	Sand
2805	2908	103	Anhydrite
2908	3065	157	do & Gyp
3065	3125	60	do
3125	3176	51	Anhydrite & Gyp
3176	3200	24	Anhydrite & Red rock
3200	3325	125	Anhydrite No show of oil or gas
TD			
Deviation Test. 417-1/4° - 1160-1/8° - 1490-0° 1700-1/4° 1900-1/2° - 2000-0° 2100-0° 2450-1° 2742-1° 2800-1° - 3130- 3/4°.			
Hole found to be dry. Spotted 30 sacks cement @ 3310 Spotted 10 sacks cement @ 1650 Shot 7" OD casing @ 1810-1420-1500, Ft Recovered 39 joints, 1285 Ft of 7" OD casing. Capped hole with 15 sacks cement. Released tools at 12.00 Midnight 11-27-47.			
CORRECTION			

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. BAGS OF CEMENT	METHODS USED	MUD GRAVITY	AMOUNT OF MUD USED
12"	8-1/2"	411	500	Calibration		
8"	7"	2108	500	CS		

PLUGS AND ADAPTERS

Heaving plug—Material None Length _____ Depth Set _____
 Adapters — Material _____ Size _____

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT
	<u>None</u>					

Results of shooting or chemical treatment Not shot

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 3385 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

PRODUCTION

Put to producing No prod. dry hole, 19_____
 The production of the first 24 hours was None barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, Be. _____
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Earl Lawson, Driller Bill Clark, Driller
Lee Durham, 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 so far as can be determined from available records.

Subscribed and sworn to before me this 11 day of Dec., 1947
[Signature]
 Notary Public

Hobbs New Mexico 12-11-47
 Name [Signature] Date _____
 Position Dist. Supt.
 Representing Repollo Oil Company
 Company or Operator
 Address Hobbs New Mexico

My Commission expires 2 - 4 - 50

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

AREA 640 ACRES
LOCATE WELL CORRECTLY

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 (?). SUBMIT IN TRIPPLICATE. FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-105 IS PROPERLY FILLED OUT.

Republic Oil Company

Hobbs New Mexico

Company or Operator **J. D. Grimes** Well No. **6** in **N1/4** of Sec. **28** T. **18S**
 Lease **334** N. M. P. M. **Hobbs** Field, **Log** County.

Well is **1990** feet south of the North line and **600** feet west of the East line of **N1/4**

If State land the oil and gas lease is No. _____ Assignment No. _____

If patented land the owner is **J. D. Grimes** Address _____

If Government land the permittee is _____ Address _____

The Lessee is _____ Address _____

Drilling commenced **6,004 11-7** 19 **18** Drilling was completed **18,004 11-27** 19 **18**

Name of drilling contractor **Clay & Cackle** Address **Hobbs New Mexico**

Elevation above sea level at top of casing **3654** feet.

The information given is to be kept confidential until **Nov. 2,** 19 **18**

OIL SANDS OR ZONES

No. 1, from None 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 None to _____ feet.
No. 2, from _____ to _____ feet.
No. 3, from _____ to _____ feet.
No. 4, from _____ to _____ feet.

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	OUT & FILLED FROM	PERFORATED		PURPOSE
							FROM	TO	
4 1/2"	25.0	8	JSS	41	Cable				
7"	22	8	JSS	315	Float				

DUPLICATE

OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
MISCELLANEOUS REPORTS ON WELLS

RECEIVED
DEC 12 1947
RECEIVED

HOBBS OFFICE

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL	XX		

11-23-1947

Hobbs New Mexico

Date

Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the _____

Repelle Oil Company **W. D. Grims** Well No. **6** in the _____
 Company or Operator Lease
Nw of Sec. **33**, T. **18S**, R. **33E**, N. M. P. M.,
Bowers Field, **Lea** County.

The dates of this work were as follows: **November, 26 & 27th - 1947**

Notice of intention to do the work was (~~was~~) submitted on Form C-102 on **11-24-47** 19

and approval of the proposed plan was (was not) obtained. (Cross out incorrect words)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Plugged, and abandoned, Spotted 30 sacks cement at 5310.
 Spotted 20 sacks cement at 1650'. Hole kept full of heavy mud during operation.
 Shot 7" OD Casing @ 1510-1420-1300 ft, Recovered 29 joints,
 1285' of 7" OD casing. Spotted 35 sacks cement @ 500 Ft.
 Capped hole w/ 15 sacks cement, Completed @ 12.00 Midnight
 November, 28th, 1947. 4" Pipe cemented in bottom of collar and extended
 4" above surface as (regulation marker)

Witnessed by **Mr. Bill Clark** **Clay & Gackle** **Driller**
 Name Company Title

Subscribed and sworn before me this _____

I hereby swear or affirm that the information given above is true and correct.

25th day of **November**, 19**47**

Name **W. D. Grims**

Position **Dist. Supt.**

Notary Public

Representing **Repelle Oil Company**

Company or Operator

Address **Hobbs New Mexico**

APPROVED

Date **DEC 12 1947**

W. D. Grims
 Name
 Title

#4 Getty Oil Co
 Unit # H

OWWO

COUNTY LEA FIELD Hobbs STATE NM MN 07459
 OPR GETTY OIL CO. MAP
 4 Grimes, W. D.
 Sec 29, T-18-S, R-38-E CO-ORD
 2310' FNL, 330' FEL of Sec

Re-Cmp 4-21-71	CLASS		EL	
	FORMATION	DATUM	FORMATION	DATUM
CSG & SX - TUBING				
12 1/2" at 220' w/200 SX				
9 5/8" at 2720' w/600 SX				
7" at 3880' w/300 SX				
5 1/2" Inr 3796-4236' w/50 SX.				
LOGS EL GR RA IND HC A				
	TD 4236'			

(San Andres) Perfs 4160-4232' NO NEW POTENTIAL.

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CONT. DATE PROP DEPTH 4232' TYPE WO

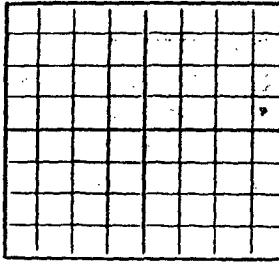
F.R.C. 5-13-71; Opr's Elev. 3657' DF
 PD 4232' WO (San Andres)
 (Orig. Tidal Oil Co., comp 12-1-30 from OH
 3880-4194', OTD 4194'; OWDD & Re-Cmp 7-24-49
 thru Perfs 4218-32', OTD 4236')

5-11-71

TD 4236'; COMPLETE
 Perf 4160-70' w/1 SPF
 Acid (4160-70') 2000 gals (15% NE)

5-13-71

COMPLETION REPORTED



AREA 640 ACRES
LOCATE WELL CORRECTLY

DEPARTMENT OF THE STATE GEOLOGIST

WELL RECORD

Mail to State Geologist, Santa Fe, New Mexico, not more than ten days after completion of well. Indicate questionable data by following it with (?). Submit in duplicate.

Company Tidal Oil Company Address Box 1087 Hobbs, N.M.
 Send correspondence to F. Schneider Address W.T. Waggoner Bldg. Ft. Worth, Tex
Wm. D. Grimes Well No. 4 in NE¹/₄ of Sec. 29 T. 18-S
R. 38-E N. M. P. M. Hobbs Oil Field Lea County.
 If State land the oil and gas lease is No. _____ Assignment No. _____
 If patented land the owner is Wm. D. Grimes Address 1st Natl. Bank
Seminole, Texas.
 The lessee is _____ Address _____
 If not state or patented land, give status _____
 Drilling commenced Oct. 7, 1930 19 _____ Drilling was completed Nov. 14, 1930 19 _____
 Name of drilling contractor Champlin & Bass, Inc. Address Holdenville, Okla.
 Elevation above sea level at top of casing 3647 approx. feet.
 The information given is to be kept confidential until _____ 19 _____

OIL SANDS OR ZONES

No. 1, from 4050 to 4175 No. 4, from _____ to _____
 No. 2, from _____ to _____ No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from 135 to 160 No. 3, from _____ to _____
 No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATED		PURPOSE
							FROM	TO	
12 1/2"	50#	10	D.B. LW	213' 5"	T.P.				Surface Pipe
9-5/8"	36#	8	Sale	2707' 6"	Brk. Float				Water Shut-off
									(Shoe and 1 bottom joints are spot welded)
7" OD	24#	10	Sale	3594' 2"	Brk. Float				Oil String
									(Shoe and 4 bottom joints are spot welded)
3"	9.3#	10	W.I.	4227' 7"	none				tubing
									(Bottom joint is perforated by slotting)

NEW MEXICO STATE LAND OFFICE
SANTA FE, NEW MEXICO

DEPARTMENT OF THE STATE GEOLOGIST
NOTICE OF TEST OF WATER SHUT-OFF

Notice must be given to the State Geologist or to the proper Oil and Gas Inspector at least five days before the test. It is desirable that a representative of the Department of the State Geologist witness the water shut-off before drilling into the productive sand whenever possible. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to sender. Submit this notice in duplicate.

Hobbs N. Mex., Nov. 8, 1930, 19

Mr. R.L. Halley

State Geologist,
~~Carlsbad~~ ~~XXXX~~, New Mexico.

Dear Sir:

You are hereby notified that we intend to test the shut-off of water in Wm. D. Grimes
Well No. 4 in NE 1/4 of Sec. 29, T. 18-S, R. 35-E,
N. M. P. M., Hobbs Oil Field Lea County,
on Nov. 12, 19 30 24 1/2 lb. casing was ~~drilled~~ cemented { in Line
formation at a depth of 3880' feet on Nov. 8, 1930 19
300 sacks of El. Toro Oil Well cement were used.

The method used in placing the cement was as follows:

Halliburton.

Fluid level will be bailed to a depth of 2500' feet and left undisturbed for at least 12 hours before your inspection.

Adjacent property owners have been notified as follows: Humble Oil Co., Amerada Pet. Corp
California Oil Co., Shell Pet. Co. Paririe Oil & Gas Co.

Additional information:

Approved 11/10 30 19 30

Except as follows:

Sincerely yours,

TIDAL OIL COMPANY

By [Signature] Company or Operator.

Position District Foreman

Send communication regarding well to

Name Tidal Oil Company,

Address Box 1087 Hobbs, N.M.

[Signature]
State Geologist or Oil and Gas Inspector

FORMATION RECORD

FROM	TO	THICKNESS FEET	DESCRIPTION
0	10		Lime (In Cellar)
10	20		Caliche do
20	35		Caliche
35	60		Sand
60	62		Lime Shell
62	100		Sand
100	102		Lime Shell
102	118		Sandy
118	123		Sandy Lime
123	145		Sand
145	150		Shell Lime
150	156		Hard Sand
156	161		Shell Lime
161	180		Hard Sand
180	183		Shell Lime
183	195		Sand
195	218		Red Bed
218	220		Yellow Clay (Cemented 1 1/2" w/ 200 sx. Cement)
220	1260		Red Bed
1260	1445		Red Bed and Sand
1445	1510		Red Bed and Lime Shells
1510	1550		Broken Lime and Anhydrite
1550	1620		Red Bed and Anhydrite
1620	1655		Sand and Anhydrite
1655	1710		Anhydrite (Top of Salt 1710')
1710	2475		Salt
2475	2575		Anhydrite and Salt
2575	2600		Red Bed and Anhydrite
2600	2968		Anhydrite (Cemented 9-5/8" Csg. 2720' 600 sx)
2968	3078		Anhydrite and Shale (Showing of gas at 2830')
3078	3208		Anhydrite
3208	3218		Oil Sand (Showing of Oil)
3218	3715		Anhydrite
3715	3720		Sand
3720	3855		Anhydrite
3855	3880		Lime (Cemented 7" Csg. at 3880' 300 sax. Cement)
3880	3949		Lime and Anhydrite
3949	4050		Lime (Top of pay at 4050')
4050	4130		Gray Brown Lime Broken
4130	4175		Soft Brown Lime
4175	4194		Hard Gray Lime
4194			Total Depth.

This well built up a pressure of 400# on casing after tubing was run and shut in. Blew itself in and cleaned self without running swab.

On open test for 30-minutes made 405.06-bbls. which makes a 24-hr. gauge of 19,443.10-bbls. with 16,640,000 Cu. Ft. of Gas.

2720'	600	Well Halliburton	10'	Hole Full
7" OD	300		12'	do
				do

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth Set _____
 Adapters—Material _____ Size _____

SHOOTING RECORD

SIZE	SHELL USED	EXPLOSIVE USED	QUANTITY	DATE	DEPTH SHOT	DEPTH CLEANED OUT

TOOLS USED

Rotary tools were used from 220' feet to 4194' feet, and from _____ feet to _____ feet
 Spudder
 Cable tools were used from 20' feet to 220' feet, and from _____ feet to _____ feet

PRODUCTION

Proration will allow this well to be put to producing ~~Dec. 1,~~ 1930
 Put to producing ~~Dec. 1,~~ 1930
 Test of Nov. 17, 1930. The production of the first 24 hours was 19,443 barrels of fluid of which 99.4% was oil; .6% emulsion; _____% water; and _____% sediment. Gravity, Be. 35.5 at 50
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYES

M.E. Self _____, Driller _____, Driller
 U.S. King _____, 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 so far as can be determined from available records.

Subscribed and sworn to before me this 18 Name J.P. Wade
 day of November, 1930, Position District Foreman.
Mary Frances Beal Representing Tidal Oil Company Company or Operator
 Notary Public.
 My commission expires June 10 1934

NEW MEXICO STATE LAND OFFICE
 Santa Fe, New Mexico
 DEPARTMENT OF THE STATE GEOLOGIST
 NOTICE OF INTENTION TO DRILL NEW WELL

Notice must be given to the State Geologist or to the proper Oil and Gas Inspector 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.

Mr. R.L. Halley, State Geologist, Carlsbad N. Mex., Sept. 30, 1930

Dear Sir: You are hereby notified that it is our intention to commence the drilling of a well to be known as W. M. D. Grimes Well No. 4 in NE 1/4 of Sec. 29 T. 18-S, R. 28-E, N. M. P. M., Hobbs Oil Field Lea County

AREA 640 ACRES
 LOCATE WELL CORRECTLY

The well is 2310 feet ^(XX) of N line and 330 feet ^(S.) of East Line (W.) of East line of Sec. 29-18s-38e

(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 W.D. Grimes

Address 1st Nat'l. Bank, Seminole, Texas.

The lessee is TIDAL OIL COMPANY Address Fort Worth, Texas

The elevation of the derrick floor above sea level is 3647 feet. We propose to drill well with Rotary Rig. aprox.

Make of Drill _____

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

Size of Casing	Weight Per Foot	New or Second Hand	Depth	Landed or Cemented
<u>12 1/2"</u>	<u>50#</u>	<u>S.H.</u>	<u>250'</u>	<u>Cemented</u>
<u>9-5/8"</u>	<u>36#</u>	<u>New</u>	<u>2900'</u>	<u>Cemented</u>
<u>7" OD</u>	<u>24#</u>	<u>New</u>	<u>3900'</u>	<u>Cemented</u>

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 4000' feet.

Additional information:

Approved 1930 30
 Except as follows:

Sincerely yours,
TIDAL OIL COMPANY
 Company or Operator.

State Geologist of Oil and Gas Inspector
R.L. Halley

By [Signature]
 Position Supv.
 Send communication regarding well to
 Name F. Schneider
 Address Tidal Oil Company, Fort Worth, Texas.

DEPARTMENT OF THE STATE GEOLOGIST

LA 106

STATE LAND OFFICE
SANTA FE, NEW MEXICO

MISCELLANEOUS REPORTS ON WELLS

Reports should be made within ten days of completing the work indicated and should be submitted in duplicate.

Indicate nature of report by checking.

Notice of intention to drill _____	Subsequent record of shooting _____
Notice of intention to change plans _____	Notice of intention to pull or otherwise alter casing _____
Notice of date for test of water shut-off _____	Notice of intention to abandon well _____
Report on result of test of water shut-off XXXXXXXXXX	Supplementary well history _____
Notice of intention to re-drill or repair well _____	Monthly report of operations _____
Notice of intention to shoot _____	

Mr. R.L. Halley Hobbs, N. Mex. Nov. 13, 1930
State Geologist
Carlsbad, ~~Santa Fe~~ New Mexico.

Following is a report giving the results of work done as indicated above at Wm. D. Grimes

Well No. 4 in NE 1/4 of Sec. 29 T. 18-S R. 38-E
N.M.P.M., Hobbs Oil Field Lea County.

DETAILS

State names of and expected depths to objective sands or producing horizon; show sizes, weights, and lengths of casing run or proposed; indicating mudding jobs, cementing points, water horizon, number of days operated, and total depth at end of month, and other important information.

Result of Water Test: Bailed hole dry and have satisfactory shut off.
Showed no Oil or Gas.
7" O.D. Casing Cemented at 3880'

Approved Nov. 19, 1930.
(Date)
R.L. Halley
(Name)

Company TIDAL OIL COMPANY
By J.C. Wade
Title District Foreman
Address Box 1087 Hobbs, N.M.

State Oil & Gas Insp.

#2 Sinclair Oil & Gas
Unit # 1

NEW MEXICO OIL CONSERVATION COMMISSION

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY Sinclair Oil & Gas Company - 520 East Broadway - Hobbs, New Mexico
(Address)

LEASE W.D. Grimes WELL NO. 2 UNIT F S 28 T 18 R 38

DATE WORK PERFORMED As Shown POOL Hobbs

- This is a Report of: (Check appropriate block)
- Beginning Drilling Operations
 - Plugging
 - Results of Test of Casing Shut-off
 - Remedial Work
 - Other Plug & Abandon

Detailed account of work done, nature and quantity of materials used and results obtained.

4-6-59 4223 San Andres - Moved in & rigged up DD Unit.
 4-8-59 4223 San Andres - Pulled 84 jts. 3-1/2" OD tbg. & 15 jts. 2-7/8" OD tbg. (Total 4235).
 4-9-59 4243 San Andres - Ran gauge ring to 3850'. Set Baker CI Retainer @ 3825'. Ran 2" tbg. & squeeze tools. Squeezed open hole f/3972-4243 w/100 sks. Inferno cement. Max. 2200#. Raised tbg. dumped 5 sks. on retainer. Pulled tbg. Released DD Unit.
 4-15-59 4243 San Andres - Cleaned out cellar. Installed pull nipple & worked 6-5/8" OD csg.
 4-16-59 4243 San Andres - Cut 6-5/8" OD csg. @ 2958'. Pulling casing.
 4-17-59 4243 San Andres - Finished pulling 6-5/8" OD csg. (3067'). Ran tbg. to 3100'.
 4-18-59 4243 San Andres - Spotted 300 sks. cement f/2350-3100'. Filled hole w/heavy mud. Set 4" "Regulation Marker" in bottom cellar & top 10-3/4" OD csg. in 25 sks. cement Extending 4' above surface level. P&A completed 5:00 PM 4-18-59

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____
 Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____
 Perf Interval (s) _____
 Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:	BEFORE	AFTER
Date of Test	_____	_____
Oil Production, bbls. per day	_____	_____
Gas Production, Mcf per day	_____	_____
Water Production, bbls. per day	_____	_____
Gas-Oil Ratio, cu. ft. per bbl.	_____	_____
Gas Well Potential, Mcf per day	_____	_____

This is a Report of: (Check appropriate block) Rest of Test of Casing Shut-off

Beginning Drilling Operations

Remedial Work

Plugging

Other Plug & Abandon

Detailed account of work done, nature and quantity of materials used and results obtained.

4-6-59 4223 San Andres - Moved in & rigged up DD Unit.
 4-8-59 4223 San Andres - Pulled 84 jts. 3-1/2" OD tbg. & 15 jts. 2-7/8" OD tbg. (Total 4235).
 4-9-59 4243 San Andres - Ran gauge ring to 3850'. Set Baker CI Retainer @ 3825'. Ran 2" tbg. & squeeze tools. Squeezed open hole f/3972-4243 w/100 sks. Inferno cement. Max. 2200#. Raised tbg. dumped 5 sks. on retainer. Pulled tbg. Released DD Unit.
 4-15-59 4243 San Andres - Cleaned out cellar. Installed pull nipple & worked 6-5/8" OD csg.
 4-16-59 4243 San Andres - Cut 6-5/8" OD csg. @ 2958'. Pulling casing.
 4-17-59 4243 San Andres - Finished pulling 6-5/8" OD csg. (3067'). Ran tbg. to 3100'.
 4-18-59 4243 San Andres - Spotted 300 sks. cement f/2350-3100'. Filled hole w/heavy mud. Set 4" "Regulation Marker" in bottom cellar & top 10-3/4" OD csg. in 25 sks. cement Extending 4' above surface level. P&A completed 5:00 PM 4-18-59/

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____

Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Perf Interval (s) _____

Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:

BEFORE

AFTER

Date of Test _____

Oil Production, bbls. per day _____

Gas Production, Mcf per day _____

Water Production, bbls. per day _____

Gas-Oil Ratio, cu. ft. per bbl. _____

Gas Well Potential, Mcf per day _____

Witnessed by _____

(Company) _____

OIL CONSERVATION COMMISSION

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

Name John W. Ramsey

Name Bob Smith

Title Geologist

Position Dist. Supt.

Date JAN 2, 1960

Company Sinclair Oil & Gas Company

Orig & 2 cc: OGC

cc: FHR, HFD, File

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

HOBBS OFFICE OCC

MISCELLANEOUS NOTICES

Submit this notice in TRIPLICATE to the District Office, Oil Conservation Commission, Hobbs, New Mexico, if the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Notice by Checking Below

NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO TEMPORARILY ABANDON WELL		NOTICE OF INTENTION TO DRILL DEEPER	
NOTICE OF INTENTION TO PLUG WELL	X	NOTICE OF INTENTION TO PLUG BACK		NOTICE OF INTENTION TO SET LINER	
NOTICE OF INTENTION TO SQUEEZE		NOTICE OF INTENTION TO ACIDIZE		NOTICE OF INTENTION TO SHOOT (Nitro)	
NOTICE OF INTENTION TO GUN PERFORATE		NOTICE OF INTENTION (OTHER)		NOTICE OF INTENTION (OTHER)	

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Hobbs, New Mexico
(Place)

February 24, 1959
(Date)

Gentlemen:

Following is a Notice of Intention to do certain work as described below at the.....

Sinclair Oil & Gas Company **W.D. Grimes** Well No. **2** in **F**
(Company or Operator) Lease (Unit)

SE 1/4 **NW** 1/4 of Sec. **28**, T. **18S**, R. **38E**, NMPM, **Hobbs** Pool
(40-acre Subdivision)

Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK
(FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS)

(Offset operators have been notified of this intention to plug and abandon)

PROPOSE TO Plug and Abandon Well, as follows:

- Cut 3" OD Tubing off at 3135' or below if possible.
- Set Cast Iron Drillable Retainer just above the stuck tubing and squeeze open hole section 3974'-4223' with approximately 250 sacks cement.
- Cut 6-5/8" OD Casing at approximately 3000' and pull.
- Spot 300 sacks cement from 2350'-3100'.
- Spot 25 sack cement plug in the top of 10-3/4" Casing and bottom of cellar, with 4" regulation marker set 4' above surface. Fill cellar, clean and level location.

16" OD Casing set at 223' with 200 sacks cement.
 10-3/4" OD Casing set at 2710' with 700 sacks cement.
 6-5/8" OD Casing set at 3974' with 250 sacks cement.
 3" OD Tubing set at 4235' - stuck on bottom & split at 3135' f/surface.

Approved _____, 19____
Except as follows:

Approved _____
OIL CONSERVATION COMMISSION

Title _____

By C.G. Salter
 Position **Dist. Supt.**
 Send Communications regarding well to:
 Name **C.G. Salter**
 Address **520 E Broadway, Hobbs, N.M.**

NEW MEXICO OIL CONSERVATION COMMISSION

(Revised 3-55)
 10-11-52

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY Sinclair Oil & Gas Company, 520 East Broadway, Hobbs, New Mexico
 (Address)

LEASE W. D. Grimes WELL NO. 2 UNIT F S 28 T 18 R 38

DATE WORK PERFORMED As Shown POOL Hobbs

This is a Report of: (Check appropriate block) Results of Test of Casing Shut-off
 Beginning Drilling Operations Remedial Work
 Plugging Other _____

Detailed account of work done, nature and quantity of materials used and results obtained.

The cellar was dug out and a high pressure bleeder line was run to the surface from the following annulus: surface-intermediate and intermediate-oil strings. The opening of the valves in the cellar was witnessed by E. J. Fischer, District Engineer of District I of Oil Conservation Commission on January 22, 1958. The cellar was then filled in again.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:
 DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____
 Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____
 Perf Interval (s) _____
 Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:	BEFORE	AFTER
Date of Test	_____	_____
Oil Production, bbls. per day	_____	_____
Gas Production, Mcf per day	_____	_____
Water Production, bbls. per day	_____	_____
Gas-Oil Ratio, cu. ft. per bbl.	_____	_____
Gas Well Potential, Mcf per day	_____	_____
Witnessed by _____		
	(Company)	

OIL CONSERVATION COMMISSION

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

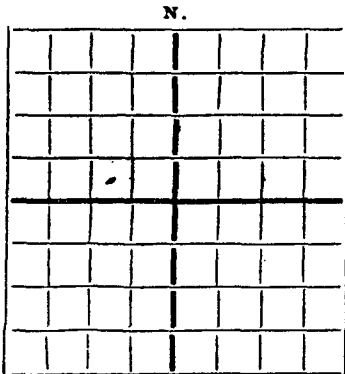
Name E. J. Fischer

NEW MEXICO STATE LAND C
 Santa Fe, New Mexico
DEPARTMENT OF THE STATE GEOLOGIST
NOTICE OF INTENTION TO DRILL NEW WELL

Notice must be given to the State Geologist or to the proper Oil and Gas Inspector 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.

Mr. T. A. Stancliff, State Geologist. Tulsa, Oklahoma N. Mex., October 20, 1932

Dear Sir: You are hereby notified that it is our intention to commence the drilling of a well to be known as W. D. Grimes Well No. -Two-(2)- in NE¹ of Sec. 28 T. 18S, R. 58E, N. M. P. M., Lea County Oil Field



The well is 550 feet ^(N.) ~~(E.)~~ of South line and 990 feet ^(E.) ~~(S.)~~ of East line of SE¹ NE¹ Sec. 28
 (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 W. D. Grimes

Address Hobbs, New Mexico

AREA 640 ACRES
 LOCATE WELL CORRECTLY

The lessee is Repollo Oil Company Address Box 521, Tulsa, Oklahoma

The elevation of the derrick floor above sea level is 5847.21 feet. We propose to drill well with No. Rotary

Make of Drill _____

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

Size of Casing	Weight Per Foot	New or Second Hand	Depth	Landed or Cemented
15-1/2"	70#	Second Hand	228'	Cemented - 245 Sacks
10"	45#	Second Hand	2750'	Cemented - 700 sacks
8-1/4"	28#	Second Hand	3942'	Cemented - 300 Sacks

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 4000 feet.

Additional information:

Approved Oct. 22, 1932
 Except as follows:

State Geologist or Oil and Gas Inspector.

T. A. Stancliff

Sincerely yours,

Repollo Oil Co
 Company or Operator.

By W. H. Hagan

Position _____

Send communication regarding well to

Name Glen Harroun

Address Box 767
East Worth

NEW MEXICO STATE LAND OFFICE
OFFICE OF THE STATE GEOLOGIST
SANTA FE, NEW MEXICO

Rec'd and Fwd.
10-2-32
T. A. Stanciliff
State Oil & Gas Inspector

MISCELLANEOUS REPORTS ON WELLS

Submit this report in duplicate to the State Geologist or proper Oil and Gas Inspector within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of water shut-off, result of abandonment of well, and other important operations, even though the work was witnessed by the State Geologist or Oil and Gas Inspector. Reports on minor operations need not be signed and sworn to before a notary public, but such operations should be witnessed by an Oil and Gas Inspector if possible.

Indicate nature of report by checking below:

REPORT ON BEGINNING DRILLING OPERATIONS	<input checked="" type="checkbox"/>	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF SHOOTING WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF WATER SHUT-OFF		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF ABANDONMENT OF WELL			

Hobbs, N. M. Oct. 21 st, 1932.

Mr. E. H. Wells State Geologist,

PLACE DATE

Santa Fe, N. Mex.

Following is a report on the work done and the results obtained under the heading noted above at the

Taber & Coleman for Repollo Oil Co. Grimes Well No. 2 in the

COMPANY OR OPERATOR

28

18S

LEASE

38 E.

Hobbs S. E. $\frac{1}{4}$ S. W. of Sec. 28, T. 18S, R. 38 E., N. M. P. M.,
Lea County.

The dates of this work were as follows: Oct 21st, 1932.

Notice of intention to do the work was (was, not) submitted on Form SG/101 on

Oct 20th, 1932, and approval of the proposed plan was (was, not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Drilling commenced

Subscribed and sworn to before me this

25 day of Oct, 1932.

Mary Frances Deal

NOTARY PUBLIC

My commission expires Jan 10-34

I hereby swear or affirm that the information given above is true and correct.

Name Taber & Coleman

Position for Repollo Oil Co.

Representing

Hobbs, N. M.

COMPANY OR OPERATOR

Address

Remarks:

T. A. Stanciliff Philip Taber

NEW MEXICO STATE LAND OFFICE
 OFFICE OF THE STATE GEOLOGIST
 SANTA FE, NEW MEXICO

MISCELLANEOUS NOTICES

Submit this notice in triplicate to the State Geologist or proper Oil and Gas Inspector at least five days before the work specified is to begin. A copy will be returned to the sender on which will be given the approval with any modifications considered advisable or the rejection by the State Geologist or Oil and Gas Inspector of the plan submitted. The plan as approved should be followed and work should not begin until approval is obtained.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL			
NOTICE OF INTENTION TO DEEPEN WELL	X		

Mr. W. G. Falls State Geologist, Wink, Texas. April 17, 1935
 Santa Fe, N. Mex.

Following is a notice of intention to do certain work as described below at the W. D. Grimes

Well No. 2 in EW/4
 of Sec. 28, T. 18S, R. 38E, N. M. P. M., Hobbs
 Oil Field, Lee County.

DETAILS OF PROPOSED PLAN OF WORK

Deepen well from present total depth of 4225' to approximately 4268'

DUPLICATE

APR 19 1935

Approved _____, 19____
 except as follows:

[Signature]
 NAME _____ TITLE _____

Address _____

Repelle Oil Company
 COMPANY OPERATOR
 By L. Surratt
 Position District Supt.
 Send communications regarding well to
 Name L. Surratt
 Address Drewer P., Wink, Texas.

1CR

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	30	30	Caliche
30	91	61	Sand and Shells
91	95	4	Hard Sand
95	234	139	Sand and Shells
234	1175	941	Sand and Shells
1175	1335	160	Sticky Shale
1335	1425	90	Hard Sand
1425	1510	85	Red Bed
1510	1550	40	Shale and Hard Sand
1550	1600	50	Red Bed
1600	1670	70	Shale and Shells
1670	1730	60	Anhydrite
1730	1740	10	Anhydrite Salt
1740	1750	10	Anhydrite
1750	2660	910	Salt
2660	2870	210	Anhydrite
2870	3285	415	Anhydrite and Lime
3285	3300	15	Sand
3300	3380	80	Anhydrite
3380	3400	20	Sandy Lime
3400	3580	180	Lime and Anhydrite
3580	3680	100	Anhydrite
3680	3850	170	Anhydrite and Lime
3850	4040	190	Lime
4040	4090	50	Lime
4090	4152	62	Sandy Lime
4152	4223	71	Lime (Terry)
			Total depth 4223'.

10-1/8	235'	700	HALLIBURTON	127	40' 148
10	2710'	700	Halliburton	None	None
6-5/8	4006'	250	Halliburton	None	None

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth Set _____
 Adapters—Material _____ Size _____

SHOOTING RECORD

SIZE	SHELL USED	EXPLOSIVE USED	QUANTITY	DATE	DEPTH SHOT	DEPTH CLEANED OUT

TOOLS USED

Rotary tools were used from 0 feet to 4225 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

PRODUCTION

Put to producing 12-1, 19 32.

The production of the first 24 hours was 551 barrels of fluid of which 100 % was oil; _____ % emulsion; _____ % water; and _____ % sediment. Gravity, Be _____

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

J.D. Nabors, Driller _____, Driller

Bill Williams, 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 so far as can be determined from available records.

Subscribed and sworn to before me this 28th day of November, 19 32 Name Tabert Coleman by Philip
 Position DRILLING CONTRACTOR
 Representing HEPOLIO OIL COMPANY
 Notary Public. _____ Company or Operator.

My commission expires June 22-1934

DUPLICATE

APPROVED AS O. K.

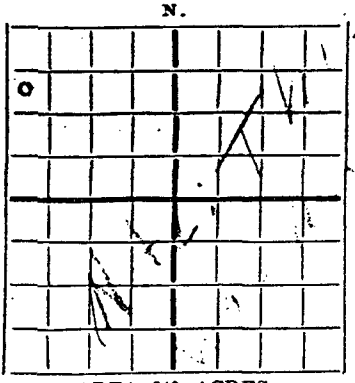
BY [Signature]

NEW MEXICO STATE LAND OFFICE
Santa Fe, New Mexico
DEPARTMENT OF THE STATE GEOLOGIST
NOTICE OF INTENTION TO DRILL NEW WELL

Notice must be given to the State Geologist or to the proper Oil and Gas Inspector 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.

Mr. C.O. Staley, State Geologist, Ranger, Texas, Mexico, Aug. 7th 1930

Dear Sir: You are hereby notified that it is our intention to commence the drilling of a well to be known as W.D. Grimes Well No. 2 in 1/4 of Sec. 28 T. 18S, R. 38E, N. M. P. M., Hobbs Oil Field Lee County



AREA 640 ACRES
LOCATE WELL CORRECTLY

The well is 990 feet ~~East~~ (S.) of North line and 330 feet (E.) of ~~West~~ Section 28 line of Section 28
(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 W.D. Grimes
Address Hobbs, New Mexico

The lessee is The Prairie Oil & Gas Company Address Ranger, Texas

The elevation of the derrick floor above sea level is Ground 3840 feet. We propose to drill well with No. Rotary
Make of Drill _____

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

Size of Casing	Weight Per Foot	New or Second Hand	Depth	Landed or Cemented
12 1/2"	50	New	200'	Cement
9 5/8"	32	New	2750'	Cement back to 12 1/2"
7"	24	New	3950'	Cement

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 4150 feet.

Additional information:
It is our intention to run 9 5/8" pipe to about 2750' and cement back to bottom of 12 1/2 inch. This will protect the salt section.

Approved Aug 14 1930
Except as follows:

Sincerely yours,
THE PRAIRIE OIL AND GAS COMPANY
Company or Operator
By [Signature]
Position General Superintendent
Send communication regarding well to
Name The Prairie Oil & Gas Company
Ranger, Texas.

State Geologist or Oil and Gas Inspector.
[Signature]

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

Submit this report in TRIPLICATE to the District Office, Oil Conservation Commission, within 10 days after the work specified is completed. It should be signed and filed as a report on Beginning Drilling Operations, Results of test of casing shut-off, result of plugging of well, result of well repair, and other important operations, even though the work was witnessed by an agent of the Commission. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Report by Checking Below

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF PLUGGING WELL		REPORT ON RECOMPLETION OPERATION		REPORT ON (Other) Test For Casing Leaks	X

9 September 1953
(Date)

Hobbs, New Mexico
(Place)

Following is a report on the work done and the results obtained under the heading noted above at the

Sinclair Oil & Gas Co.

(Company or Operator)

W.D. Grimes

(Lease)

(Contractor)

Well No. 2 in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ of Sec. 28

T. 18, R. 36, NMPM, Hobbs Pool, Lea County.

The Dates of this work were as follows: 8 & 9 September 1953

Notice of intention to do the work (was) (was not) submitted on Form C-102 on _____, 19____, (Cross out incorrect words)

and approval of the proposed plan (was) (was not) obtained.

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Test all surface connections for possible casing leaks. Threads would not permit a pressure gauge test, however gas was bled off to zero with an estimated original pressure of 125#, with no fluid being present. Opened again in 24 hrs., no gas was present. Test included 15 1/2" and 10 3/4" and 10 3/4" and 7".

Witnessed by John A. Disch Sinclair Oil & Gas Co. Engr.
(Name) (Company) (Title)

Approved: OIL CONSERVATION COMMISSION

A. G. Stanley
(Name)
Engineer District

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

Name John A. Disch

Position Engr.

Representing Sinclair Oil & Gas Co.

(Title)

(Date)

Address Box 1927 Hobbs, New Mexico

It doesn't appear
to be plugged

Petroleum Information

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COUNTY LEA FIELD Hobbs STATE NM
 OPR SHELL OIL CO. API MN 07422
 NO 111 LEASE North Hobbs (Grayburg-San Andres) MAP
Sec 28, T18S, R38E Unit Sec 28 COORD
990 FNL, 330 FWL of Sec 11-1-21 NM
2 mi NW/Hobbs RESP 12-19-80 CND SE 12-27-81

CSC	WELL CLASS: INIT DX FIN DO LSE CODE			
	FORMATION	DATUM	FORMATION	DATUM
15 1/2-280-200 sx				
13-296-200 sx				
10-2703-120 sx				
7-3956-120 sx				
4 1/2-1nr-3914-4234-50 sx				
	ID 4235 (SADR)		PBD	

(Grayburg-San Andres) Perfs 4041-4224 No New Potential

CONTR OPRSHEV 3646 DF sub-s

F.R.C. 11-7-81 OWWO
 PD 4235 WO (Grayburg-San Andres)
 (Orig. Repollo Oil Co. #3 Grimes cmp 7-27-34 from
 (Grayburg-San Andres) OH 3956-4210, OTD 4210;
 OWDD & re-cmp 9-26-35 from (Grayburg-San Andres)
 OH 3956-4216, OTD 4216; OWDD by Sinclair Oil &
 Gas Co. & re-cmp 9-2-61 thru (Grayburg-San Andres)
 Perfs 4214-24; OTD 4235)
 11-2-81 TD 4235; Complete
 Perf (Grayburg-San Andres) 4041-4120
 Acid (4041-4224) 6000 gals
 11-7-81 COMPLETION ISSUED

11-1-21 NM
 IC 30-025-70603-81

I
II
III
IV

DEPARTMENT OF THE STATE GEOLOGIST

Form 86-106

STATE LAND OFFICE
SANTA FE, NEW MEXICO

MISCELLANEOUS REPORTS ON WELLS

Reports should be made within ten days of completing the work indicated and should be submitted in duplicate.

Indicate nature of report by checking.

Notice of intention to drill _____	Subsequent record of shooting _____
Notice of intention to change plans _____	Notice of intention to pull or otherwise alter casing _____
Notice of date for test of water shut-off _____	Notice of intention to abandon well _____
Report on result of test of water shut-off _____ X	Supplementary well history _____
Notice of intention to re-drill or repair well _____	Monthly report of operations _____
Notice of intention to shoot _____	

Mr. T. A. Stanliff Wink, Texas. N. Mex. July 13, 1934.
State Geologist
Santa Fe, New Mexico.

Following is a report giving the results of work done as indicated above at W. D. Grimes

Well No. 5 in NW/4 of Sec. 28 T. 18S R. 36E
N.M.P.M., Hebbs Oil Field Lee County.

D E T A I L S

State names of and expected depths to objective sands or producing horizon; show sizes, weights, and lengths of casing run or proposed; indicating mudding jobs, cementing points, water horizon, number of days operated, and total depth at end of month, and other important information.

**7" OD Casing was cemented with 250 sacks of cement at a depth of 3050,
on July 6, 1934 pressure test on casing was taken by pump method and
pressure test was 750 pounds.**

DUPLICATE

Approved JUL 16 1934
(Date)
[Signature]
(Name)

Company HEPOLL OIL COMPANY
By [Signature]
Title DISTRICT CLERK

Title _____
Address _____

Address HEPOLL OIL COMPANY

DEPARTMENT OF THE STATE GEOLOGIST

82-106

STATE LAND OFFICE
SANTA FE, NEW MEXICO

MISCELLANEOUS REPORTS ON WELLS

Reports should be made within ten days of completing the work indicated and should be submitted in duplicate.

Indicate nature of report by checking.

Notice of intention to drill Test on 10" casing	Subsequent record of shooting _____
Notice of intention to change plans _____	Notice of intention to pull or otherwise alter casing _____
Notice of date for test of water shut-off _____	Notice of intention to abandon well _____
Report on result of test of water shut-off _____	Supplementary well history _____
Notice of intention to re-drill or repair well _____	Monthly report of operations _____
Notice of intention to shoot _____	

Mr. **T. A. Stansliff**
State Geologist
Santa Fe, New Mexico.

Santa Fe, _____ N. Mex. _____

Following is a report giving the results of work done as indicated above at **W. D. Grimes**

Well No. **3** in **NW/4** of Sec. **28** T. **18S** R. **38E**
N.M.P.M., **Hobbs** Oil Field **Lee** County.

DETAILS

State names of and expected depths to objective sands or producing horizon; show sizes, weights, and lengths of casing run or proposed; indicating mudding jobs, cementing points, water horizon, number of days operated, and total depth at end of month, and other important information.

10" casing set at 2703'-10" and cemented with 150 sacks.
Tested pressure 725 pounds on June 22nd, 1934.

DUPLICATE

Approved _____
(Date) **JUL 16 1934**
(Name) *[Signature]*

Company **Esperio Oil Company**
By *[Signature]*
Title **District Clerk**

Title _____
Address _____

Address **Henry F. Hill, Hobbs**

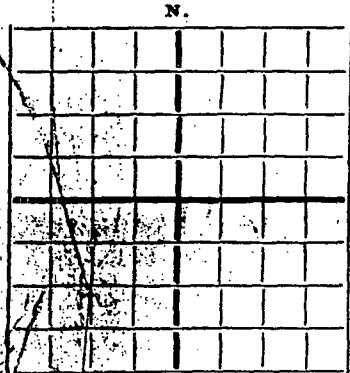
DEPARTMENT OF THE STATE GEOLOGIST

NOTICE OF INTENTION TO DRILL NEW WELL

Notice must be given to the State Geologist or to the proper Oil and Gas Inspector 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.

Mr. W. A. Stanoliff, State Geologist. Tulsa, Oklahoma N. Mex., May 10, 1934.

Dear Sir: You are hereby notified that it is our intention to commence the drilling of a well to be known as W. D. Grimes Well No. Three (3) in NW 1/4 of Sec. 28 T. 19 South, R. 38 East, N. M. P. M., Lea County, Oil Field



The well is 990 feet ^(N) of North line and 350 feet (E.) of West line of NW 1/4 Section 28

(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: W. D. Grimes

Address Hobbs, New Mexico

AREA 640 ACRES
LOCATE WELL CORRECTLY

The lessee is Repelle Oil Company Address Box 221, Tulsa, Oklahoma

The elevation of the derrick floor above sea level is approx 3656 feet. We propose to drill well with No. Rotary

Make of Drill _____

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

Size of Casing	Weight Per Foot	New or Second Hand	Depth	Landed or Cemented
<u>15-1/2"</u>	<u>70#</u>		<u>225'</u>	<u>Cemented - 200 sacks</u>
<u>10"</u>	<u>45#</u>		<u>2710'</u>	<u>Cemented - 120 sacks</u>
<u>6-5/8"</u>	<u>34#</u>		<u>3974</u>	<u>Cemented - 250 sacks</u>

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 4225 feet.

Additional information: _____

DUPLICATE

Approved MAY 24 1934, 19_____
Except as follows: _____

Sincerely yours,
Repelle Oil Company

By [Signature] Company or Operator.

Position [Signature]
Send communication regarding well to

Name Mrs. Glen Barron
Address Box 1210, Fort Worth, Texas

State Geologist or Oil and Gas Inspector

[Signature]

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	304	304	Caliche & Sand
304	327	24	Caliche & Sand
327	1346	1019	Red Bed & hard shells
1346	1446	100	Sand, shale & shell
1446	1633	186	Broken shale & shells
1633	1755	123	Anhydrite & shale
1755	1784	29	Broken Shale
1784	1802	18	Salt
1802	2020	218	Lime shells & rock salt
2020	2368	348	Salt
2368	2435	67	Salt & shell
2435	2555	120	Salt
2555	2695	140	Anhydrite & salt
2695	2716	21	Lime 10" Set at 2704' and cemented w/150-sacks Tested casing with 750-Lbs. OK.
2716	2760	44	Anhydrite
2760	2867	7	Sand
2867	2985	218	Anhydrite
2985	3111	126	Salt, Anhydrite & Sand Shells
3111	3250	139	Anhydrite
3250	3269	19	Broken Sand - Show Oil
3269	3339	69	Anhydrite
3339	3316	27	Lime
3316	3916	260	Lime
3916	4156	24	Lime OIL
4156	4216	20	Broken Lime

7" OD casing set at 2956' cemented w/250 sacks. Casing tested for water shut-off. Had 700 lbs. and was OK.

Well started producing July 10, 1934. and made 48 barrels first hour or an estimated total of 1080 barrels for first 24 hours.

IMPORTANT W/ER-2475

CASING RECORD

100	100	100	Halliburton
100	100	100	Halliburton
100	100	100	Halliburton
100	100	100	Halliburton

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth Set _____
 Adapters—Material _____ Size _____

SHOOTING RECORD

SIZE	SHELL USED	EXPLOSIVE USED	QUANTITY	DATE	DEPTH SHOT	DEPTH CLEANED OUT

TOOLS USED

Rotary tools were used from Top feet to Bottom feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

PRODUCTION

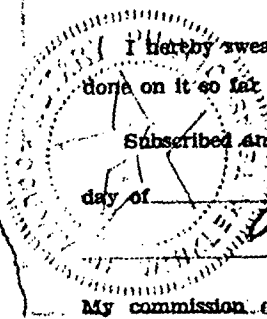
Put to producing July 10, 19 34
 The production of the first 24 hours was 42 barrels of fluid of which 100 % was oil;
Making an estimated production 1020 barrels for 24 Hours
 emulsion; _____ % water; and _____ % sediment. Gravity, Be _____
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Jack Phillips, Driller Jack Reynolds, I
H. M. Taylor, 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 done on it so far as can be determined from available records.

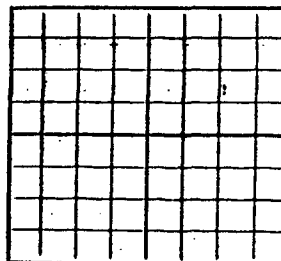


Subscribed and sworn to before me this 14th Name J. H. Kelly
 day of July 19 34 Position District Clerk
Melvin D. Deane Representing Repalle Oil Camp
 My commission expires Jan _____
 Notary Public _____

JUL 16 1934
DUPLICAT

APPROVED AS O. K.
[Signature]

NO Copy K



AREA 640 ACRES
LOCATE WELL CORRECTLY

DEPARTMENT OF THE STATE GEOLOGIST

WELL RECORD

Mail to State Geologist, Santa Fe, New Mexico, not more than ten days after completion of well. Indicate questionable data by following it with (?). Submit in duplicate.

Company Repelle Oil Company Address Drawer P, Wink, Texas.

Send correspondence to Le Surratt Address Drawer P, Wink, Texas.

W. D. Grimes Well No. 3 in SW/4 of Sec. 28 T. 18S

R. 38E N. M. P. M. Hobbs Oil Field Lea County.

If State land the oil and gas lease is No. _____ Assignment No. _____

If patented land the owner is W. D. Grimes Address Hobbs, New Mexico

The lessee is Repelle Oil Company Address Box 521, Tulsa, Okla.

If not state or patented land, give status _____

Drilling commenced June 4, 19 34. Drilling was completed July 8, 19 34.

Name of drilling contractor Loffland Brothers Address Tulsa, Oklahoma

Elevation above sea level at top of casing _____ feet.

The information given is to be kept confidential until _____ 19 _____

OIL SANDS OR ZONES

No. 1, from 020 3215' to _____ No. 4, from _____ to _____

No. 2, from 3860 to 4210 No. 5, from _____ to _____

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

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____

No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATED		PURPOSE
							FROM	TO	
15 1/2"	70#	8thd	?	296'	TP				
20"	45#	8thd	?	270'	Flood				
7"OD	155#	8thd	Int'l.	2950'	Flood				

NO. BAGS OF _____
WHERE SET _____
Halliburton 125
125

NUMBER OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.A.	
LAND OFFICE	
TRANSPORTER	
PRODUCTION OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS OFFICE 000

(Submit to appropriate District Office as per Commission Rule 1106)

1951 SEP 12 AM 9:33

Name of Company **Sinclair Oil & Gas Company** Address **520 East Broadway, Hobbs, N.M.**

Lease **W.D. Grimes** Well No. **3** Unit Letter **D** Section **28** Township **18S** Range **38E**

Date Work Performed **see below** Pool **Hobbs** County **Lea**

THIS IS A REPORT OF: (Check appropriate block)

- Beginning Drilling Operations Casing Test and Cement Job Other (Explain):
- Plugging Remedial Work

Detailed account of work done, nature and quantity of materials used, and results obtained.

8-27-61 Moved in NW (Between & Whitsett). Deepened from 4225 to 4235 w/6" bit. Cemented 321' of 4-1/2" OD IL 2-55 casing for liner from 3913-4235. Cemented w/50 lbs cement & 45 gal kytex & 1/4" float seal per sack. Reversed out 16 hrs. Completed at 12:30 PM 8-27-61. WGS.

8-30-61 Run Gamma-Rayton Log. Job Perforated 4-1/2" liner 4214-24 w/20 1/2" holes. Run 2-3/8" OD tag to 4218 w/packer at 4180.

8-31-61 Had acid washed perfor 4 w/250 gals, Max Press 4200, 5 min SIP 0.

9-2-61 On potential test - ending 6:00 AM 9-2-61, well flowed 64 bbls new 36.0 gravity oil & 8 bbls lead water thru 3/4" choke, Tag Press 60#, GOR 487 to 1. Final Report.

Witnessed by **W.D. Grimes** Position **Foreman** Company **Sinclair Oil & Gas Company**

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

ORIGINAL WELL DATA

D F Elev. TD **3956** P BTD **4225** Producing Interval **3956-4225** Completion Date **7-10-54**

Tubing Diameter **3-1/8"** Tubing Depth **4200** Oil String Diameter **7"** Oil String Depth **3956**

Perforated Interval(s) **Open hole**


Open Hole Interval **3956-4225** Producing Formation(s) **San Andres**

RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover	8-23-61	23	18	0	700	
After Workover	9-2-61	64	21	8 lead water 487		

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

OIL CONSERVATION COMMISSION

Approved by  Name **J.R. Wood**

Title **Engineer District 3** Position **Asst Dist Supt**

Date **SEP 12 1951** Company **Sinclair Oil & Gas Co**

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

NEW MEXICO OIL CONSERVATION COMMISSION

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

5a. Indicate Type of Lease	
State <input type="checkbox"/>	Fee <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.	
7. Unit Agreement Name	
8. Farm or Lease Name W. D. Grimes	
9. Well No. 3	
10. Field and Pool, or Wildcat Hobbs (Grayburg San Andres)	
12. County Lea	

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"/>
2. Name of Operator Sinclair Oil & Gas Company
3. Address of Operator P. O. Box 1920, Hobbs, New Mexico, 88240
4. Location of Well UNIT LETTER D 990 FEET FROM THE North LINE AND 330 FEET FROM THE West LINE, SECTION 28 TOWNSHIP 188 RANGE 38E NMPM.
15. Elevation (Show whether DF, RT, GR, etc.) 3646' GR

16. 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"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER Squeeze cement, perf. treat same zone <input checked="" type="checkbox"/>

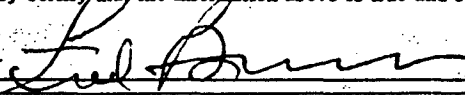

SUBSEQUENT REPORT OF:

REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
CASING TEST AND CEMENT JOBS <input type="checkbox"/>	OTHER <input type="checkbox"/>

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

Propose To: Set retainer @ 4196' and cement squeeze present perforations 421A' to 422A'. Perforate approximately 4172' to 4182' with 2 shots per. foot. Treat perforations with 250 gals. mud acid, test and recompleat same zone.

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

SIGNED 	TITLE Area Superintendent	DATE 2-4-65
APPROVED BY 	TITLE Engineer District 1	DATE FEB 5 1965
CONDITIONS OF APPROVAL, IF ANY:		

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OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

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

5a. Indicate Type of Lease
State Fee

5. State Oil & Gas Lease No.

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 Sinclair Oil & Gas Company	8. Farm or Lease Name W. D. Grimes
3. Address of Operator P. O. Box 1920, Hobbs, New Mexico, 88240	9. Well No. 3
4. Location of Well UNIT LETTER D 990 FEET FROM THE North LINE AND 330 FEET FROM THE West LINE, SECTION 28 TOWNSHIP 18S RANGE 38E NMPM.	10. Field and Pool, or Wildcat Hobbs (Grayburg Sandres)
15. Elevation (Show whether DF, RT, CR, etc.) 3646 CR	12. County Lea

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER Squeeze Cement, perf. & acid treat <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.

2-9-65 Set GI Retainer in 4-1/2" liner @ 4196' and squeezed Grayburg perforations 4214' to 4224' w/105 sks. Incor Wt. 14.6# plus 50# Flocal Max. Press. 4000#. WOG 24 hrs.

2-11-65 Bailed hole dry, remained dry 1 hr. Jet perforated Grayburg 4172' to 82' w/20 - 3/8" holes. Ran 2-3/8" tubing and Quiberson Packer to 4166' and M.A. washed w/ 250 gallons, Max. Press. 3400#, no break @ 2 BPM. Inst. SIP Vacuum.

2-14-65 On potential test 24 hours ending 12 Noon 2-15-65 pumped Grayburg perfs. 4172-82' 32 HHO Gvty 35.0, plus 140 HFW, GOR: 650/l.

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

SIGNED *[Signature]* TITLE **Superintendent** DATE **2-17-65**

APPROVED BY *[Signature]* TITLE **Engineer District 1** DATE **MAR 19 1965**

CONDITIONS OF APPROVAL, IF ANY:
Orig:2cc; OOO.Hobbs, cc: Mr.R.F.Sayer, cc: file

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OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION
 Hobbs Office O.C.C.
 Original cc: OCC, Hobbs
 cc: Regional Office
 cc: file 70 2 56 PM '67

Form C-101
 Revised 1-1-65

5A. Indicate Type of Lease
 STATE FEE

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL <input type="checkbox"/> DEEPEN <input checked="" type="checkbox"/> PLUG BACK <input type="checkbox"/>		7. Unit Agreement Name
b. Type of Well OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. Farm or Lease Name W. D. Grimes
2. Name of Operator SINCLAIR OIL & GAS COMPANY		9. Well No. 3
3. Address of Operator P. O. Box 1920, Hobbs, New Mexico 88240		10. Field and Pool, or Wildcat Hobbs Grayburg San And
4. Location of Well UNIT LETTER <u>D</u> LOCATED <u>990</u> FEET FROM THE <u>North</u> LINE AND <u>330</u> FEET FROM THE <u>West</u> LINE OF SEC. <u>28</u> TWP. <u>18S</u> RGE. <u>38E</u> NMPM		12. County Lea
19. Proposed Depth 4300'		19A. Formation Grayburg San Andres
20. Rotary or C.T. Rotary		21. Elevations (Show whether DF, RT, etc.) 3646' GR
21A. Kind & Status Plug. Bond In Effect		21B. Drilling Contractor Pool Company
22. Approx. Date Work will start Upon Approval		

23. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP

Present Total Depth 4235'. PBTD 4196'.
 Present production 6 BOPD and 150 BWPD.
 PROPOSE TO: Deepen from present total depth 4235' to approx. 4300'. Cement squeeze perforations 4172-4182' and test casing. Drill to approx. 4280' and run logs if satisfactory. If logs unsatisfactory drill to approx. 4300', acidize w/approx. 2500 gals. acid and tests.

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 [Signature] Title Superintendent Date 6-28-67

(This space for State Use)
 APPROVED BY _____
 ORIGINAL & THREE COPIES
 SIGNED BY ERIC F. ENGBRECHT
 ENGINEER DISTRICT No. 1
 DATE JUN 29 1967

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LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION
 Orig & cc: OCC, Hobbs
 cc: Regional Office
 cc: file

SEP 12 1 12 PM '67

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

5. Indicate Type of Lease
 State Fee

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 SINCLAIR OIL & GAS COMPANY	8. Farm or Lease Name W. D. Grimes
3. Address of Operator P. O. Box 1920, Hobbs, New Mexico 88240	9. Well No. 3
4. Location of Well UNIT LETTER <u>D</u> <u>990</u> FEET FROM THE <u>North</u> LINE AND <u>330</u> FEET FROM THE <u>West</u> LINE, SECTION <u>28</u> TOWNSHIP <u>18S</u> RANGE <u>38E</u> NMPM.	10. Field and Pool, or Wildcat Hobbs Grayburg San Andres
15. Elevation (Show whether DF, RT, GR, etc.) 3646' GR	12. County Lea

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

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER <u>Deepen, log, squeeze cement, perf. & test</u> <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 1703.

- 6-30-67 Cement squeezed San Andres perms. 4172-82' w/21 sks. Incor Class "C" w/1/4# Flo-seal per. sk. Max. Press. 2000#, rev. out 79 sks. WOC 24 hrs.
- 7-1-67 Pressure tested casing & perms. 4172-4182' w/800#, tested O.K. (800# for 30 mins.)
- 7-8-67 Drilled and cleaned out from 4235 to 4280' Total Depth.
- to
- 7-9-67
- 7-13-67 Acidized San Andres Open-Hole 4234-4280' w/500 gals. N.E. acid Max. Press. 2000#, Min. 5000# @ 1/2 to 2 1/2 BPM, ISIP Vacuum. Tested on pump San Andres Open-Hole 4234-4280' 2 BNO plus 106 BFW, no increase.
- 7-20-67 Ran Gamma-Neutron Accoustic log.
- 7-21-67 Acidized Open-Hole 4254-4280' w/250 gals. 15% acid (N.E.) Max. Press. 1200#, Min. 150# @ 1/2 BP, ISIP 150#, 5 mins. SIP Vacuum.
- 7-22-67 Acidized San Andres Open Hole 4242-4280' w/500 gals. 15% acid N.E. & Sequestering agent, Max. Press. 2100#, Min. 1000# @ 2 BPM ISIP 1700#, 5" SIP Vacuum. No show oil or gas.
- 8-25-67 Cement squeezed San Andres open hole 4234-4280 w/100 sks. Incor Class C 3/4# CFR₂ & 2# salt per sk. slurry wt. 14.8#. Max. Press. 4000#, rev. out 46 sks. PBTD 4166'. WOC 24 hrs. Press. tested casing to 800# for 30 mins. Tested O.K.
- 8-26-67 Jet perforated San Andres 4147-51-54-57-60' w/10 3/8" holes.

(Continued on attached Sheet #2)

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

SIGNED [Signature] TITLE Superintendent DATE 9-11-67

APPROVED BY _____ DATE SEP 13 1967

CONDITIONS OF APPROVAL, IF ANY:

ORIGINAL & THREE COPIES

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LAND OFFICE	
OPERATOR	

Form C-105
Revised 3/1/65

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG
Original cc: OCC, Hobbs 12 PM '67
cc: Regional Office
cc: file

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

1a. TYPE OF WELL
OIL WELL GAS WELL DRY OTHER _____
5. TYPE OF COMPLETION
NEW WELL WORK OVER DEEPEN PLUG BACK DIFF. RESVR. OTHER _____
2. Name of Operator **SINCLAIR OIL & GAS COMPANY**
3. Address of Operator **P. O. Box 1920, Hobbs, New Mexico 88240**
7. Unit Agreement Name _____
8. Farm or Lease Name **W. D. Grimes**
9. Well No. **3**
10. Field and Pool, or Wildcat **Hobbs Grayburg San Andres**

4. Location of Well
UNIT LETTER **D** LOCATED **990** FEET FROM THE **North** LINE AND **330** FEET FROM _____
THE **West** LINE OF SEC. **28** TWP. **18S** RSE. **38E** NMPM _____
12. County **Lea**

15. Date Spudded **6-29-67** Date T.D. Reached **7-9-67** 17. Date Compl. (Ready to Prod.) **9-3-67** 18. Elevations (DF, RKB, RT, CR, etc.) **3646' GR** 19. Elev. Casinghead _____

20. Total Depth **4280'** 21. Plug Back T.D. **4130'** 22. If Multiple Compl., How Many _____ 23. Intervals Drilled By **Rotary Tools 4235-4280'** Cable Tools _____

24. Producing Interval(s), of this completion - Top, Bottom, Name **4109-11-14-17-19-21' San Andres** 25. Was Directional Survey Made **No**

26. Type Electric and Other Logs Run **Gamma Neutron Acoustic Log** 27. Was Well Cored **No**

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10-3/4"OD	45#	2731'	11-1/2"	150 sks.	
7"OD	24#	3996'	8 1/4"	250 sks.	

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
4-1/2"OD	3913'	4234'	105 sks.		2-3/8" & 2-7/8"OD	4107'	None

31. Perforation Record (Interval, size and number) **4109-11-14-17-19-21' w/12-3/8" holes.**
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL **4109-21'** AMOUNT AND KIND MATERIAL USED **1500 gals. 15% LST acid**

33. PRODUCTION

Date First Production **9-3-67** Production Method (Flowing, gas lift, pumping - Size and type pump) **Pumping 1-3/4" X 4' plunger (tubing pump)** Well Status (Prod. or Shut-in) **Prod.**
Date of Test **9-9-67** Hours Tested **24 hrs.** Choke Size _____ Prod'n. For Test Period _____ Oil - Bbl. **35** Gas - MCF **34** Water - Bbl. **59** Gas - Oil Ratio **960:1**
Flow Tubing Press. **0** Casing Pressure **0** Calculated 24-Hour Rate _____ Oil - Bbl. **35** Gas - MCF **34** Water - Bbl. **59** Oil Gravity - API (Corr.) **34.4**

34. Disposition of Gas (Sold, used for fuel, vented, etc.) **Sold** Test Witnessed By **Mr. W. L. Sisson**

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.
SIGNED **[Signature]** TITLE **Superintendent** DATE **9-11-67**

operating injection
well (for recovery
or disposal?)

#221 Shell

West #2 F

NEW MEXICO OIL CONSERVATION COMMISSION
 Santa Fe, New Mexico
NOTICE OF INTENTION TO DRILL

Form G-101
Revised (12/1/55)

Notice must be given to the District Office of the Oil Conservation Commission and approval obtained before drilling or recompletion 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 QUINTUPLICATE. One copy will be returned following approval. See additional instructions in Rules and Regulations of the Commission. If State Land submit 6 Copies Attach Form G-128 in triplicate to first 3 copies of form G-101

Midland, Texas

January 16, 1959

(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
Sinclair Oil & Gas Company

(Company or Operator)

W. D. Grines

(Lease)

Well No. **2-A**, in **F** (Unit) The well is

located **1910** feet from the **North** line and **1650** feet from the **West** line of Section **28**, T. **14S**, R. **30E**, NMPM.

(GIVE LOCATION FROM SECTION LINE)

Pool, **Lea** County

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

If State Land the Oil and Gas Lease is No.....

If patented land the owner is.....

Address.....

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

The status of plugging bond is **in effect.**

Drilling Contractor **contract not let**

We intend to complete this well in the **San Andres** formation at an approximate depth of **4275'** feet.

CASING PROGRAM

We propose to use the following strings of Casing and to cement them as indicated:

Size of Hole	Size of Casing	Weight per Foot	New or Second Hand	Depth	Sacks Cement
12 1/2 8-1/4"	10-3/4"	28.52#	New	600'	200
8-3/4"	7"	28#	New	4275'	200

If changes in the above plans become advisable we will notify you immediately.

ADDITIONAL INFORMATION (If recompletion give full details of proposed plan of work.)

JAN 19 1959

Approved _____, 19____
Except as follows:

CEMENT MUST BE CIRCULATED BEHIND

By **1034**
OIL CONSERVATION COMMISSION
[Signature]

Sincerely yours,

Sinclair Oil & Gas Company

(Company or Operator)

By **[Signature] (D. L. Brown)**

Position **District Clerk, Production Dept.**

Send Communications regarding well to

Name **H. F. DeFunberg**
Box 1170, Midland, Texas

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

HOBBS OFFICE OCC

MISCELLANEOUS NOTICES

1959 FEB 2

Submit this notice in **TRIPPLICATE** to the District Office, Oil Conservation Commission, before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Notice by Checking Below

NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO TEMPORARILY ABANDON WELL		NOTICE OF INTENTION TO DRILL DEEPER	
NOTICE OF INTENTION TO PLUG WELL		NOTICE OF INTENTION TO PLUG BACK		NOTICE OF INTENTION TO SET LINER	
NOTICE OF INTENTION TO SQUEEZE		NOTICE OF INTENTION TO ACIDIZE		NOTICE OF INTENTION TO SHOOT (Nitro)	
NOTICE OF INTENTION TO GUN PERFORATE		NOTICE OF INTENTION (OTHER)		NOTICE OF INTENTION (OTHER) Surface Casing	X

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Hobbs, New Mexico
(Place)

January 29, 1959
(Date)

Gentlemen:

Following is a Notice of Intention to do certain work as described below at the

Sinclair Oil & Gas Company (Company or Operator) W.D. Grimes Well No. 2-A in F (Unit)
SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Sec. 28, T. 18S, R. 38E NMPM., Hobbs Pool
Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK
(FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS)

PROPOSED TO: Set 10-3/4" CD Casing at 532' with 600 sacks cement.

Approved _____, 19____
Except as follows:

Sinclair Oil & Gas Company
Company or Operator

By [Signature]

Position Risk Supv.
Send Communications regarding well to:

Approved _____
OIL CONSERVATION COMMISSION
By [Signature]
Title Oil Gas Inspector

Name C.G. Walter
Address 520 E Broadway, Hobbs, N.M.

NEW MEXICO OIL CONSERVATION COMMISSION
 MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

1953 FEB 2 AM 7:51

COMPANY Sinclair Oil & Gas Company - 520 East Broadway - Hobbs, New Mexico
 (Address)

LEASE W.D. Grimes WELL NO. 2A UNIT F S 28 T 183 R 382
 DATE WORK PERFORMED As Shown POOL Hobbs

This is a Report of: (Check appropriate block)

Results of Test of Casing Shut-off

Beginning Drilling Operations Remedial Work

Plugging Other _____

Detailed account of work done, nature and quantity of materials used and results obtained.

- 1-28-59 Spudded 4:30 PM. Jennings Drilling Company
- 1-29-59 Set 581' 10-3/4" OD 32/75# H40 R2SS 8RT casing & cemented w/600 sks. Reg. Neat Cement. Cement circulated to surface.
- 1-31-59 Tested 10-3/4" OD casing w/1000# pump pressure before & after drilling cement for 1 hour. No decrease in pressure.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____

Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Perf Interval (s) _____

Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:	BEFORE	AFTER
Date of Test	_____	_____
Oil Production, bbls. per day	_____	_____
Gas Production, Mcf per day	_____	_____
Water Production, bbls. per day	_____	_____
Gas-Oil Ratio, cu. ft. per bbl.	_____	_____
Gas Well Potential, Mcf per day	_____	_____
Witnessed by _____	_____ (Company)	

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

HOBBS OFFICE OCC

MISCELLANEOUS NOTICES

1959 FEB 10

Submit this notice in TRIPPLICATE to the District Office, Oil Conservation Commission, before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Notice by Checking Below

NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO TEMPORARILY ABANDON WELL		NOTICE OF INTENTION TO DRILL DEEPER	
NOTICE OF INTENTION TO PLUG WELL		NOTICE OF INTENTION TO PLUG BACK		NOTICE OF INTENTION TO SET LINER	
NOTICE OF INTENTION TO SQUEEZE		NOTICE OF INTENTION TO ACIDIZE		NOTICE OF INTENTION TO SHOOT (Nitro)	
NOTICE OF INTENTION TO GUN PERFORATE		NOTICE OF INTENTION (OTHER)		NOTICE OF INTENTION to set (OTHER) Production Csg X	

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Hobbs, New Mexico
(Place)

February 17, 1959
(Date)

Gentlemen:

Following is a Notice of Intention to do certain work as described below at the

SINEX Sinclair Oil & Gas Co. W.D. Grines Well No. 2-1 in 7
(Company or Operator) Lessee (Unit)
SE NW 26 188 38E Hobbs Pool
(40-acre Subdivision) 1/4 of Sec. T. R. NMPM.
Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK
(FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS)

PROPOSE TO: Set 7" OD Casing at 4240' w/682 sacks cement.

Approved _____, 19____
Except as follows:

Sinclair Oil & Gas Company
Company or Operator

By Albert J. Salter

Position Dist. Supt.
Send Communications regarding well to:

Approved _____
OIL CONSERVATION COMMISSION
By John W. Ramsey
Title Geologist

Name C.C. Salter
Address 520 E Broadway, Hobbs, N.M.

(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY Sinclair Oil & Gas Company - 520 East Broadway - Hobbs, New Mexico
(Address)

LEASE W.D. Grimes WELL NO. 2-A UNIT F S 28 T. 183 R. 38E
DATE WORK PERFORMED As Shown POOL Hobbs

This is a Report of: (Check appropriate block) Results of Test of Casing Shut-off
 Beginning Drilling Operations Remedial Work
 Plugging Other Acidize - Completion

Detailed account of work done, nature and quantity of materials used and results obtained.

- 2-17-59 Set 4240' 7" OD 20-23# J-55 SS casing @ 4240' w/Baker 2 stage tool @ 2800'. Cemented bottom w/250 size & 432 size thru 2 stage collar. WOC. Cement circulated to surface.
- 2-19-59 Drilled cement to 4230'. Tested 7" OD casing w/1200# pump pressure 30 min. No decrease in pressure. Perforated 7" OD casing f/4133 to 4153 w/ 80 1/2" Jet shots. Ran 2" UE tbg. to 4172' w/Packer & holddown @ 4082'.
- 2-20-59 Acidized w/500 gal. mud acid. Max. press. 3400. Min. 2500#. Inj. rate 4 bbls. per minute. SIP 700#. On potential test flowed 109 bbls. now 36.2 Gvty oil in 12 hrs. thru 3/4" choke. Tbg. 25#. Gag. - Packer. For a 24 hr. calculated potential of 218 bbls. GOR 640. Calendar day allowable 34 bbls. effective 2-20-59/

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:
DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____
Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____
Perf Interval (s) _____
Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:	BEFORE	AFTER
Date of Test	_____	_____
Oil Producti <u>o</u> n, bbls. per day	_____	_____
Gas Production, Mcf per day	_____	_____
Water Production, bbls. per day	_____	_____
Gas-Oil Ratio, cu. ft. per bbl.	_____	_____
Gas Well Potential, Mcf per day	_____	_____
Witnessed by _____		

(Company)

OIL CONSERVATION COMMISSION
Name [Signature]

I hereby certify that the information given above is true and complete to the best of my knowledge.
Name [Signature]

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

(Form C-104)
Revised 7/1/57

REQUEST FOR (OIL) - (GAS) ALLOWABLE

HOBBS OFFICE OCC
New Well
Recompletion

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Hobbs, New Mexico **February 24, 1959**
(Place) (Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

Sinclair Oil & Gas Co. **W.D. Grimes**, Well No. **2-A**, in **SE** $\frac{1}{4}$ **NW** $\frac{1}{4}$,
(Company or Operator) (Lease)

F **28** T **18E** R **38E**, NMPM., **Hobbs** Pool
Unit Letter

Leon County. Date Spudded **1-28-59** Date Drilling Completed **2-17-59**
Elevation **3646** Total Depth **4240** PBD **4230**

Please indicate location:

D	C	B	A
E	F X	G	H
L	K	J	I
M	N	O	P

Top Oil/Gas Pay **3809** Name of Prod. Form. **San Andres**

PRODUCING INTERVAL -

Perforations **4133-4153**
Open Hole _____ Depth _____ Casing Shoe **4240** Depth _____ Tubing **4172**

OIL WELL TEST -

Natural Prod. Test: _____ bbls. oil, _____ bbls water in _____ hrs, _____ min. Size _____ Choke
Test After Acid or Fracture Treatment (after recovery of volume of oil equal to volume of load oil used): **109** bbls. oil, **0** bbls water in **12** hrs, **0** min. Size **3/4"** Choke

GAS WELL TEST -

Natural Prod. Test: _____ MCF/Day; Hours flowed _____ Choke Size _____

Tubing, Casing and Cementing Record

Size	Feet	Sex
10-3/4	581	600
7	4240	682
2	4172	

Method of Testing (pitot, back pressure, etc.): _____

Test After Acid or Fracture Treatment: _____ MCF/Day; Hours flowed _____

Choke Size _____ Method of Testing: _____

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): **Acidized w/500 gals mud acid.**

Casing _____ Tubing _____ Date first new _____
Press. **Packers** Press. **2 1/2"** oil run to tanks **February 20, 1959**

Oil Transporter **Atlantic Pipe Line Company**

Gas Transporter **Phillips Petroleum Company**

Remarks: *Can't allow for well #2 (PFA)*

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

Approved: **FEB 25 1959**, 19____

Sinclair Oil & Gas Company
(Company or Operator)

OIL CONSERVATION COMMISSION

By: *[Signature]*
(Signature)

By: *[Signature]*
Title **Oil & Gas Inspector**

Title **Dist. Supt.**
Send Communications regarding well to:

Name **C.C. Salter**

TOOLS USED

Rotary tools were used from 0 feet to 4,210 feet, and from _____ feet to _____ feet.
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet.

PRODUCTION

Put to Producing 2/20/ 19 59

OIL WELL: The production during the first 24 hours was 218 barrels of liquid of which 100 % was oil; 0 % was emulsion; 0 % water; and 0 % was sediment. A.P.I. Gravity 36.2

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. 1,614	T. Devonian	T. Ojo Alamo
T. Salt	T. Silurian	T. Kirtland-Fruitland
B. Salt	T. Montoya	T. Farmington
T. Yates 2,725	T. Simpson	T. Pictured Cliffs
T. 7 Rivers 2,936	T. McKee	T. Menefee
T. Queen 3,474	T. Ellenburger	T. Point Lookout
T. Grayburg	T. Gr. Wash	T. Mancos
T. San Andrea 3,809	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	190	190	Caliche, Sand & Shale				
190	535	345	Red Beds & Shells				
535	1614	1079	Red Beds				
1614	1701	87	Anhydrite				
1701	2785	1084	Salt and anhydrite				
2785	3964	1179	Anhydrite and Gypsum				
3964	4210	276	Lime				

Well No. **2-4** of **SE** $\frac{1}{4}$ of **11** $\frac{1}{4}$ of Sec. **28**, T. **16**, R. **30E**, NMPM.
Hobbs Pool, **Lee** County.

Well is **1650** feet from **West** line and **1980 1/10** feet from **North** line of Section **28**. If State Land the Oil and Gas Lease No. is _____

Drilling Commenced **1/28/52**, 19 **52** Drilling was Completed **2/16/52**, 19 **52**

Name of Drilling Contractor **Jennings Drilling Company**

Address **Hobbs, New Mexico**

Elevation above sea level at Top of Tubing Head **3,686'** The information given is to be kept confidential until _____, 19 _____

OIL SANDS OR ZONES

No. 1, from **3,809** to **4,230** 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 SHOE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
10-3/4"	32.75	N	581				Surface
7"	20 & 23	N	4,240			4133'-4153'	Production
2-3/8"	4.7	N	4,172				Tubing

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. BAGS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
15"	10-3/4"	582	600	Halliburton		
8-3/4"	7"	4,240	682	"		

RECORD OF PRODUCTION AND STIMULATION

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

Acidized perforations from 4133'-4153' with 500 gallons mud acid.

Result of Production Stimulation **Flowed 215 bbls. oil and no water in 24 hours.**

Orig. & Seal OCS est. PFR, HPH, File _____ Depth Cleaned Out _____

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

HOBBES OFFICE OCC

1959 MAR 2 PM 1:31

WELL RECORD

AREA 640 ACRES
LOCATE WELL CORRECTLY

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 QUINTUPLICATE. If State Land submit 6 Copies

Sinclair Oil & Gas Company

W. D. GRIMES

(Company or Operator)

(Lessee)

Well No. 2-4 of in SE $\frac{1}{4}$ of NE $\frac{1}{4}$, of Sec. 28, T. 18S, R. 30E, NMPM. Hobbs Pool, Lee County.

Well is 1650 feet from West line and 1980 1910 feet from North line of Section 28. If State Land the Oil and Gas Lease No. is _____

Drilling Commenced 1/28, 19 59 Drilling was Completed 2/16, 19 59

Name of Drilling Contractor Jennings Drilling Company

Address Hobbs, New Mexico

Elevation above sea level at Top of Tubing Head 3,686' The information given is to be kept confidential until _____, 19 _____

OIL SANDS OR ZONES

No. 1, from 3,609 to 4,230 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 SHOE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
10-3/4"	32.75	N	581				Surface
7"	20 & 23	N	4,240			4133'-4153'	Production
2-3/8"	4.7	N	4,172				Tubing

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. BAGS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
10"	10-3/4"	581	600	Ballston		
8-3/4"	7"	4,240	600	"		

RECORD OF PRODUCTION AND STIMULATION

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

NEW MEXICO OIL CONSERVATION COMMISSION

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

5a. Indicate Type of Lease	
State <input type="checkbox"/>	Fee <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.	
7. Unit Agreement Name	
8. Farm or Lease Name W.D. Grimes SOC	
9. Well No. 2-Y	
10. Field and Pool, or Wildcat Hobbs-Grayburg/SA	
12. County Lea	

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 GAS WELL OTHER

2. Name of Operator
Atlantic Richfield Company

3. Address of Operator
P. O. Box 1978, Roswell, New Mexico 88201

4. Location of Well
UNIT LETTER F 1910 FEET FROM THE North 1650 FEET FROM
THE West 28 LINE, SECTION 18-S TOWNSHIP 38-E RANGE 38-E NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)
3646' GR

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

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

Squeezed San Andres perms 4133-4152' w/ 5 sx. Reversed out 25 sx and left 25 sx in 7" casing. Drld out cement to 4238' (PBD). Tested csg w/1500# for 15 min, OK. Perforated w/one 1/2" JSPF 4223-4228' & 4232-4240' (GR_N) = 4222-4227 & 4231-4239' (GR-Corr). Treated perms 4223-4240' w/2000 gallons 15% HCl LSTNE acid. Ran rods & pump, placed well on production. On 7/1/71, well pumped 52 BO, 14 BLW & 2 BFW in 24 hrs. (Prior to remedial work, production averaged 16 BOPD & 67 BWPD).

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

SIGNED [Signature] TITLE Dist. Drlg. Supervisor DATE 7/7/71

APPROVED BY [Signature] TITLE SUPERVISOR DISTRICT DATE JUL 12 1971

CONDITIONS OF APPROVAL, IF ANY:

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AND OFFICE		
PRELATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

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

SUNDRY NOTICES AND REPORTS ON WELLS
 DO NOT USE THIS FORM FOR OPERATIONS TO BE DONE IN THIS AREA OR TO BE DONE IN A DIFFERENT RESERVOIR.
 USE APPLICATIONS FOR REPORTS ON WELLS UNDER OTHER PROVISIONS.

OIL WELL GAS WELL OTHER

Name of Operator
Atlantic Richfield Company

Address of Operator
P. O. Box 1710, Hobbs, New Mexico 88240

Location of Well
 UNIT LETTER F 1910 FEET FROM THE North LINE AND 1650 FEET FROM
 THE West LINE, SECTION 28 TOWNSHIP 18S RANGE 38E NMPM.

11. Elevation (Show whether DF, KT, CR, etc.)
3646' GR

3a. Indicate Type of Lease
 State Fee

3. State Oil & Gas Lease No.

7. Unit Agreement Name

8. Name of Lease Holder
W. D. Grimes (SOC)

9. Well No.
2-Y

10. Field and Pool, or Wildcat
Hobbs Grbg SA

12. County
Lea

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

NOTICE OF INTENTION TO:

- ENFORM REMEDIAL WORK
- EMPERARILY ABANDON
- WELL OR ALTER CASING
- OTHER Repair Csg Leak
- PLUG AND ABANDON
- CHANGE PLANS

SUBSEQUENT REPORT OF:

- REMEDIAL WORK
- COMMENCE DRILLING OPNS.
- CASING TEST AND CEMENT JOB
- OTHER
- ALTERING CASING
- PLUG AND ABANDONMENT

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.

TD 4240', PBD 4238'. Perfs 4164-4209', 4223-4240'.
 10-3/4" OD csg set @ 582'. Cmtd w/600 sx. Circ to surf.
 7" OD csg set @ 4240' & cmtd w/250 sx. DV tool @ 2800' & cmtd w/432 sx. Circ. to surf.

Propose to repair casing leak in the following manner:

1. Rig up, POH w/compl assy, kill well, install BOP.
2. RIH w/RBP & pkr. Test csg & locate hole.
3. Run CBL & repair as indicated by CBL & csg test.
4. POH w/RBP & run compl assy. Turn to production.

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

APPROVED BY [Signature]
John W. Remington

TITLE Dist. Drlg. Supt.
Geologist

DATE 9/28/77
SEP 28 1977

CONDITIONS OF APPROVAL, IF ANY:

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OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

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

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

SUNDRY NOTICES AND REPORTS ON WELLS
 DO NOT USE THIS FORM FOR APPLICATION TO OIL OR GAS FROM A WELL IN A DIFFERENT RESERVOIR.
 SEE "APPLICATION FOR PERMIT TO DRILL OR RE-DRILL A WELL FOR OTHER PURPOSES."

1. OIL WELL GAS WELL OTHER

2. Name of Operator
Atlantic Richfield Company

3. Address of Operator
P. O. Box 1710, Hobbs, New Mexico 88240

4. Location of Well
 UNIT LETTER F 1910 FEET FROM THE North LINE AND 1650 FEET FROM
 THE West LINE, SECTION 28 TOWNSHIP 18S RANGE 38E N.M.P.M.

7. Unit Agreement No.

8. Form of Lease Item
W. D. Grimes (SOC)

9. Well No.
2-Y

10. Field and Pool, or Wildcat
Hobbs Grbg SA

15. Elevation (Show whether DF, RT, GR, etc.)
3646' GR

12. County
Lea

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

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

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

RU 9/28/77, killed well. POH w/rods & pump, inst BOP & POH w/tbg. RIH w/RBP & pkr on tbg, set RBP @ 1883', tested BP & 7" csg back to surf w/1000#. Found leak in bradenhead. Repl ring gas in wellhead. Installed tbg hd & BOP. Tested wellhead, BOP & 7" OD csg 0-1833' w/1500# 30 mins. Reset RBP @ 3331'. Press tested 7" OD csg 0-3331' to 1000# 30 mins OK. Ran CBL 3310' to surface indicated cmt between 10-3/4" OD csg & 7" OD csg and 7" OD csg & OH 3310' to surface OK. POH w. RBP @ 3310'. RIH w/completion assy, put on pump & returned to production.

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

SIGNED [Signature] TITLE Dist. Drlg. Supt. DATE 10/7/77

APPROVED BY Jerry Sexton TITLE Dist 1, Supv. DATE OCT 13 1977

CONDITIONS OF APPROVAL, IF ANY:

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FILE		
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LAND OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes O-102 and C-102 and C-103
Effective 1-1-

5a. Indicate Type of Lease
State Fee
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.

OIL WELL GAS WELL OTHER- **Injector**

7. Unit Agreement Name
N. Hobbs (G/SA) Unit

8. Farm or Lease Name
Sec. 28 N. Hobbs (G/SA) Unit

Name of Operator
SHELL OIL COMPANY

9. Well No.
221

Address of Operator
P. O. BOX 991, HOUSTON, TX 77001

10. Field and Pool, or Wildcat
Hobbs (G/SA)

Location of Well
UNIT LETTER **F** **1910** FEET FROM THE **north** LINE AND **1650** FEET FROM
THE **west** LINE, SECTION **28** TOWNSHIP **18S** RANGE **38E** N.M.P.M.

15. Elevation (Show whether DF, RT, GR, etc.)
3646' GR

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"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER <u>Convert to water injection</u> <input type="checkbox"/>

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

9-20-80: Drill new hole 4265'-6310'.

9-23-80: Ran GR neutron log-OK from TD³4318'-2318'.

9-24-80: Perf'd FA zones #II and IIIU w/4 JSPF 4228-4232' + 4223-4172' Acidized perfs 4172-4232' w/1000 gals 15% NEA acid.

10-2-80: Set pkr @4169'. Acidized perfs 4172-4232' w/1000 gals 15% HCl NEA acid.

10-4-80: Set pkr @4068'. Well complete.

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

SIGNED A. J. Fore **A. J. FORE** TITLE **SUPERVISOR - REG./PERM.** DATE **OCT 10 1980**

APPROVED BY Les Clements **Les Clements** TITLE **Oil & Gas Insp.** DATE **OCT 14 1980**

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Hobbs Diesel, Inc. Owner's Well No. _____
 Street or Post Office Address P.O. Box 2465
 City and State Hobbs, New Mexico 88240

Well was drilled under Permit No. L-8009 and is located in the:

- a. $\frac{1}{4}$ $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 28 Township 18S Range 38E N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
 Subdivision, recorded in Lea County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Abbott Bros. License No. WD-46

Address P.O. Box 637, Hobbs, New Mexico 88240

Drilling Began 1/16/79 Completed 1/20/79 Type tools Cable Size of hole 8½ in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 167 ft.

Completed well is shallow artesian. Depth to water upon completion of well 60 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
60	167	107	Sand	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
7	18	Welded	0	167	167	None	71	167

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
 Address _____
 Plugging Method _____
 Date Well Plugged _____
 Plugging approved by: _____
 State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received February 22, 1979

Quad _____ FWL _____ FSL _____

File No. L-8009 Use DTC Location No. 18.38.28.111312

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1

(A) Owner of well Hobbs Gas Co.
 Street and Number Box 2226
 City Hobbs State New Mexico
 Well was drilled under Permit No. L-3312 and is located in the
NE 1/4 NW 1/4 NW 1/4 of Section 28 Twp. 18S Rge. 38E
 (B) Drilling Contractor O. R. Musslewhite License No. WD99
 Street and Number Box 56
 City Hobbs State New Mexico
 Drilling was commenced Nov. 28, 1956
 Drilling was completed Nov. 29, 1956

(Plat of 640 acres)

Elevation at top of casing in feet above sea level _____ Total depth of well 108
 State whether well is shallow or artesian Shallow Depth to water upon completion 45

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	85	108	23	Sand & sand rock
2				
3				
4				
5				

Section 3 RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
6 5/8	13	None	0	108	108	None	78	108

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5 PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
 Street and Number _____ City _____ State _____
 Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
 Plugging method used _____ Date Plugged _____ 19____
 Plugging approved by: _____ Cement Plugs were placed as follows:

No.	Depth of Plug		No. of Sacks Used
	From	To	

Basin Supervisor

FOR USE OF STATE ENGINEER ONLY

Date Received _____

DES 2 1956

O. R. MUSSLEWHITE

ROSEBUD DISTRICT OFFICE

File No. L-3312 Use Dom. Location No. 18 38 28 112

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Abbott Bros. Owner's Well No. _____
Street or Post Office Address P.O. Box 637
City and State Hobbs, New Mexico 88240

Well was drilled under Permit No. L-8192 and is located in the:

a. $\frac{1}{4}$ ^{NW} ~~NW~~ $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 28 Township 18S Range 38E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Abbott Bros. License No. WD-46

Address P.O. Box 637, Hobbs, New Mexico 88240

Drilling Began 12/11/79 Completed 12/13/79 Type tools Cable Size of hole 8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 175 ft.

Completed well is shallow artesian. Depth to water upon completion of well 61 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
61	175	114		

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
7	21	Welded	0	175	175	None	65	175

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received December 28, 1979

Quad _____ FWL _____ FSL _____

L-8192

DTC

Location No. 18.38.28.112331

Section 6. LOG OF HOLE

Depth in Feet		Thickn in Feet	Color and Type of Material Encountered
From	To		
0	5	5	Surface soil
5	29	24	Caliche
29	61	32	Sand-tight
61	110	49	Sand-water
110	128	18	Sand-tight
128	152	24	Sand-water
152	170	18	Sand and gravel
170	175	5	Sandy clay
			170 Reel
			el 3640

Section 7. REMARKS AND ADDITIONAL INFORMATION

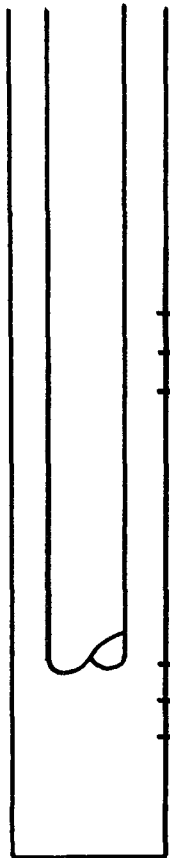
'79 DEC 28 AM 8 02
 STATE ENGINEER OFFICE
 ROSWELL N.M.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Murrell Abbott
 Driller *A.B*

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to appropriate district office of the State Engineer. A. All questions, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 2 need be completed.

ATTACHMENT J
 Agua, Inc. French Drive Brine
 Fracture Calculations



Given: Saturated Brine @ 20°C
 Density = 9.98#/gal
 Hydrostatic Press = .5195 psi/ft

Fresh Water @ 20°C
 Density = 8.33#/gal
 Hydrostatic Press = .433 psi/ft

Test Data From Sandia Labs
 WIPP Site

Salt Section @ 2150'
 Frac Press Min: 1950 psi
 Avg: 2170 psi
 Max: 2300 psi

Perfs @ Top of
 Salt 1740'

Perfs @ Base of
 Salt 2650'

Plug Back TD 2700'

Using Min Frac Press Determine
 Frac Gradient

Frac Gradient =
 $1950 \text{ psi} / 2150 = \underline{0.90698 \text{ psi/ft}}$

Estimate Min Frac Press at 2650' =
 $(.90698 \text{ psi/ft})(2650')$

Min Frac Pressure at 2650' = 2403 psi

Estimate Bottom Hole Pressure
 Using 400 psi Max Injection
 Pressure

Bottom Pressure =
 $(2650')(.5195 \text{ psi/ft}) + 400 \text{ psi}$

Bottom Hole Press W/ 400 psi
 Max Injection Pressure = 1777 psi

- . Minimum Fracture Pressure is Greater than Maximum
- . . Bottom Hole Pressure. A 400 psi operating pressure
 will produce a bottom hole pressure well below (626 psi)
 the minimum estimated frac pressure.

Attachment "K"

State Engineer Records of
Water Wells Within the
Area of Review



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

ROSWELL

February 20, 1985

S. E. REYNOLDS
STATE ENGINEER



DISTRICT II
909 E. 2nd STREET
P.O. BOX 1717
ROSWELL, NEW MEXICO 88201

J.T. Janica, Jr.
Natural Resources Engineering, Inc.
201 E. Sanger
Hobbs, New Mexico 88240

Dear Sir:

Pursuant to your request by letter dated February 19, 1985, please find enclosed photocopies of all drillers logs on record with this office for the area about which you have inquired. If you require additional information or have some questions pertaining to the forwarded materials, feel free to contact this office.

Please remit \$10.80 (54 pages x .20 per page) payable to this office to cover photocopy costs.

Sincerely,

Art Mason
Field Engineering Unit

AM/tmg
Enclosures
cc Santa Fe

STATE ENGINEER OFFICE
WELL RECORD

FIELD ENGINEER

Section 1. GENERAL INFORMATION

(A) Owner of well Kelley-Coppedge Owner's Well No. _____
Street or Post Office Address 109 N. Eurb
City and State Hobbs, NM 88240

Well was drilled under Permit No. L-8485 and is located in the:

- a. 1/4 NW 1/4 NW 1/4 NW of Section 28 Township 18-S Range 38-E N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Larry's Drilling License No. 01882

Address 2601 W. Bender Hobbs, NM 88240

Drilling Began 6-11-81 Completed 6-13-81 Type tools tricone Size of hole 9 1/2 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 120 ft.

Completed well is shallow artesian. Depth to water upon completion of well 61 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
70	110	40	sand and sandstone	25

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
5 1/2	160 PVC		0	120	120		100	120

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received June 26, 1981

Quad _____ FWL _____ FSL _____

File No. L-8485 Use DTC Location No. 18.38.28.113334

Section 6. LOG OF HOLE

Depth in Feet		Thick in Feet	Color and Type of Material Encountered
From	To		
0	1	1	topsoil
1	40	39	caliche
40	60	20	sand
60	70	10	hard rock gray
70	110	40	sand and sandstone
110	120	10	hard gray rock

Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE ENGINEER
ROSWELL, NM
JUN 26 8 36 AM '81

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Alvin Felker

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. A copy of this form, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 2 need be completed.

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well _____ Owner's Well No. _____
 Street or Post Office Address _____
 City and State _____

Well was drilled under Permit No. _____ and is located in the:

- a. _____ ¼ _____ ¼ _____ ¼ _____ ¼ of Section _____ Township _____ Range _____ N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
 Subdivision, recorded in _____ County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
 the _____ Grant.

(B) Drilling Contractor _____ License No. _____

Address _____

Drilling Began _____ Completed _____ Type tools _____ Size of hole _____ in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well _____ ft.

Completed well is shallow artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
 Address _____
 Plugging Method _____
 Date Well Plugged _____
 Plugging approved by: _____
 State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received Typed 3/13/78

Quad _____ FWL _____ FSL _____

File No. _____ Use 011 Location No. 18.38.28.12400

Section 6. LOG OF HOLE

Depth in Feet		Thickness in Feet	Color and Type of Material Encountered
From	To		
0	246		Caliche, Water sand
246	278		Sand rock
278	798		Red bed
798	900		Red bed, hard sand rock
900	1116		Red bed, shells
1116	1192		Red shale
1192	1527		Red bed, lime shells
1527	1555		Anhydrite, red rock
			LS Elev <u>3650</u> No
			Depth to K <u>246</u> Trc <u>246</u> 716
			Elev of K <u>3404</u> Trc <u>3404</u> 61616

Section 7. REMARKS AND ADDITIONAL INFORMATION

This well record is an excerpt from Oil Conservation Commission files at Hobbs, N.M.

Location: 18.38.28.12400 Elevation: --- 3650 DF

Owner: Atlantic Richfield Co.
W. D. Grimes SOC #4

Record of Casing: 15 1/2" - 222'
10 3/4" - 2720'

Rotary
990' FNL - 2310' FWL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 2 need be completed.

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well _____ Owner's Well No. _____
Street or Post Office Address _____
City and State _____

Well was drilled under Permit No. _____ and is located in the:

- a. _____ ¼ _____ ¼ _____ ¼ _____ ¼ of Section _____ Township _____ Range _____ N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor _____ License No. _____

Address _____

Drilling Began _____ Completed _____ Type tools _____ Size of hole _____ in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well _____ ft.

Completed well is shallow artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received **Typed 3/13/78**

Quad _____ FWL _____ FSL _____

File No. _____ Use **011** Location No. **18.38.28.13300**

Depth in Feet		Thick in F	Color and Type of Material Encountered
From	To		
0	14		Cellar
14	35		Hard caliche
35	119		Sand
119	127		Hard rock
127	220		Hard sand
220	228		Red rock
228	310		Medium brown shale
310	330		Sand and medium shale
330	960		Shale and red bed
960	1200		Shale and shells
1200	1260		Shale, red bed
1260	1310		Shale, shells
1310	1322		Red sand
1322	1330		Red rock, sand
1330	1440		Shale, lime shells
1440	1450		Gyp
			L S Elev <u>3655 D.E.</u>
			Depth to K <u>220</u>
			Elev of K <u>3438</u>

Section 7. REMARKS AND ADDITIONAL INFORMATION

This well record is an excerpt from Oil Conservation Commission files at Hobbs, N.M.

Location: 18.38.28.13300

Elevation: 3648' GR

Owner: Atlantic Richfield Co.

W. D. Grimes SOC #1

Record of Casing: 12 1/2" - 228'
9 5/8" - 2750'

Rotary

2310' FNL - 330' FWL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. A _____, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section _____ need be completed.

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1

(A) Owner of well Crady E. Hobbs
 Street and Number Star Route B
 City Hobbs State New Mexico
 Well was drilled under Permit No. L-3160 and is located in the
SW 1/4 SE 1/4 NE 1/4 of Section 28 Twp 19 S Rge. 38 E
 (B) Drilling Contractor Abbott Bros. License No. WD-46
 Street and Number Box 637
 City Hobbs State New Mexico
 Drilling was commenced March 30 1956
 Drilling was completed March 30 1956

(Plat of 640 acres)

Elevation at top of casing in feet above sea level _____ Total depth of well 119
 State whether well is shallow or artesian Shallow Depth to water upon completion 45

Section 2

PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	50	119	69	Water Sand
2				
3				
4				
5				

Section 3

RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To

Section 4

RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5

PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
 Street and Number _____ City _____ State _____
 Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
 Plugging method used _____ Date Plugged _____ 19 _____
 Plugging approved by: _____ Cement Plugs were placed as follows:

Basin Supervisor _____

FOR USE OF STATE ENGINEER ONLY

Date Received MAY 2 1956

OFFICE
GROUND WATER SUPERVISOR
ROSWELL, NEW MEXICO

File No. 9-3160 Use Jan Location No. 19-38-28-149

No.	Depth of Plug		No. of Sacks Used
	From	To	

Depth in Feet		Thickness in Feet	Color	Type of Material Encountered
From	To			
0	2	2		Soil
2	18	16		Caliche
18	30	12		Sand & Gravel
30	50	20		Sand
50	119	69		Water Sand

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

18-38-28-173

Well Driller

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well _____ Owner's Well No. _____
Street or Post Office Address _____
City and State _____

Well was drilled under Permit No. _____ and is located in the:

- a. _____ ¼ _____ ¼ _____ ¼ _____ ¼ of Section _____ Township _____ Range _____ N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor _____ License No. _____

Address _____

Drilling Began _____ Completed _____ Type tools _____ Size of hole _____ in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well _____ ft.

Completed well is shallow artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received **Typed 3/14/78**

Quad _____ FWL _____ FSL _____

File No. _____ Use **011** Location No. **18.38.28.14300**

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well _____ Owner's Well No. _____
Street or Post Office Address _____
City and State _____

Well was drilled under Permit No. _____ and is located in the:

- a. _____ ¼ _____ ¼ _____ ¼ _____ ¼ of Section _____ Township _____ Range _____ N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor _____ License No. _____

Address _____

Drilling Began _____ Completed _____ Type tools _____ Size of hole _____ in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well _____ ft.

Completed well is shallow artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received **Typed 3/13/78**

Quad _____ FWL _____ FSL _____

File No. _____ Use **011** Location No. **18.38.28.31100**

SECTION 6. LOG OF HOLE

Depth in Feet		Thickness in Feet	Color and Type of Material Encountered
From	To		
0	13		Surface
13	26		Caliche
26	31		Lime shell
31	58		Brown sand
58	80		Water sand - hole full water
80	103		Brown sand
103	108		Lime
108	115		Sand water
115	150		Brown sand, lime shell
150	165		Sand water
165	197		Red sand, shale
197	203		Red shale
203	210		Brown sand
210	1500		Shale, red bed
1500	1545		Shale, shells
1545	1625		Shale
1625	1720		Shale, anhydrite

Section 7. REMARKS AND ADDITIONAL INFORMATION

This well record is an excerpt from Oil Conservation Commission files at Hobbs, N.M.

Location: 18.38.28.31100

Elevation: 3649' DF.

Owner: Shell Oil Co.

Grimes #2

Record of Casing: 12 1/2" - 238'8

9 5/8" - 2751'

Rotary

2310' FSL - 330' FWL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. Aditions, except Section 5, shall be answered as completely and accurate as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 3 need be completed.

STATE ENGINEER OFFICE
WELL RECORD

FIELD ENGR. LOG

Section 1. GENERAL INFORMATION

(A) Owner of well Big Horn Tank Rental Owner's Well No. _____
Street or Post Office Address 2139 French Dr.
City and State Hobbs, NM 88240

Well was drilled under Permit No. L-8867 and is located in the:

a. _____ ¼ _____ ¼ NE ¼ NE ¼ of Section 29 Township 18S Range 38E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Larry's Drilling License No. WD882

Address 2601 W. Bender Hobbs, NM 88240

Drilling Began 7-9-82 Completed 7-10-82 Type tools button bit Size of hole 8½ in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 120 ft.

Completed well is shallow artesian. Depth to water upon completion of well 52 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
60	108	48	sand & sandstone	28

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
5½	160PVC		0	120	120		100	120

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received August 23, 1982 Quad _____ FWL _____ FSL _____

File No. L-8867 Use D & S Location No. 18.38.29.22244

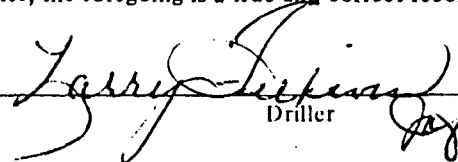
SECTION 6. LOG OF HOLE

Depth in Feet		Thickness in Feet	Color and Type of Material Encountered
From	To		
0	27	27	caliche
27	33	6	gray clay
33	35	2	hard red rock
35 m	47	12	sand
47	63	16	sand & sandstone
63	67	4	hard red rock
67	108	41	sand & sandstone
108	120	12	hard red rock

Section 7. REMARKS AND ADDITIONAL INFORMATION

AUG 23 0 33 AM '02
 STATE ENGINEER
 FIELD OFFICE

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.


 Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, except Section 5, shall be answered as completely and accurate as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

STATE ENGINEER OFFICE
WELL RECORD

ELLU W. BENDER

Section 1. GENERAL INFORMATION

(A) Owner of well JERRY L. BERRY Owner's Well No. L-7826
Street or Post Office Address 2601 W. BENDER
City and State HOBBS N.M. 88240

Well was drilled under Permit No. L-7826 and is located in the:

- a. SW 1/4 NE 1/4 SE 1/4 of Section 29 Township 18-5 Range 38E N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor YUCCA DRILLING CO License No. WD-263
Address 2601 W. BENDER HOBBS N.M. 88240

Drilling Began 1-16-78 Completed 1-16-78 Type tools HAMMER Size of hole 8 1/2 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 110 ft.

Completed well is shallow artesian. Depth to water upon completion of well 45- ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
<u>65-</u>	<u>110</u>	<u>45-</u>	<u>SAND & SANDSTONE</u> <u>pebbles</u>	<u>35-</u>

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
<u>5 5/8</u>	<u>PVC</u> <u>160</u>		<u>0</u>	<u>110</u>	<u>20</u>	<u>NONE</u>	<u>90</u>	<u>110</u>

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
<u>0</u>	<u>110</u>	<u>8 1/2</u>	<u>NONE</u>	<u>NONE</u>	<u>AIR</u>

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

FOR USE OF STATE ENGINEER ONLY

Date Received **January 20, 1978**

Quad _____ FWL _____ FSL _____

File No. L-7826

Use DOM.

Location No. 18.38.29.223

Section 6. LOG OF HOLE

Depth in Feet		Thickness in Feet	Color and Type of Material Encountered
From	To		
0	50	50	COLEECHY HARD
50	65	15	SANDSTONE
65	110	45	SANDSTONE PEBBLES & SAND

Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE ENGINEER OFFICE
 ROSWELL, N.M.
 '18 JAN 20 AM 8 23

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Walter L. Teltner
 Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 7 need be completed.

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well _____ Owner's Well No. _____
Street or Post Office Address _____
City and State _____

Well was drilled under Permit No. _____ and is located in the:

- a. _____ ¼ _____ ¼ _____ ¼ _____ ¼ of Section _____ Township _____ Range _____ N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor _____ License No. _____

Address _____

Drilling Began _____ Completed _____ Type tools _____ Size of hole _____ in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well _____ ft.

Completed well is shallow artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received **Typed 3/13/78**

Quad _____ FWL _____ FSL _____

File No. _____ Use **011** Location No. **18.38.28.323333**

STATE ENGINEER OFFICE
WELL RECORD

FIELD ENG. LOG

Section 1. GENERAL INFORMATION

(A) Owner of well Jerry L Brothers Owner's Well No. L-8446
Street or Post Office Address 506 W Copper
City and State Hobbs, N. Mex 88240

Well was drilled under Permit No. L-8446 and is located in the:

- a. $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 29 Township 18-S Range 38-E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor C. M. Saffin License No. WD603
Address 201 W Alto Hobbs NM 88240

Drilling Began 5-3-81 Completed 5/7/81 Type tools Spudger Size of hole 10 in.
Elevation of land surface or _____ at well is _____ ft. Total depth of well 120 ft.
Completed well is shallow artesian. Depth to water upon completion of well 42 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
42	120	78	Red Sand	100

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
6 7/8			0	120	120	None	100	120

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
42	120	10	4		Sl. w/ water

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

Date Received May 14, 1981

FOR USE OF STATE ENGINEER ONLY

Quad _____ FWL _____ FSL _____

File No. L-8446

Use DOM.

Location No. 18.38.29.224

Section 6. LOG OF HOLE

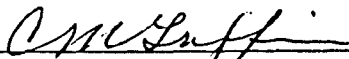
Depth in Feet		Thickness in Feet	Color and Type of Material Encountered
From	To		
0	3	3	TOP SOIL
3	24	21	White Caliche Rock
24	42	18	White Rock
42	120	78	Red Sand

Section 7. REMARKS AND ADDITIONAL INFORMATION

301 MAY 11 AM 8 29

STATE ENGINEER OFFICE
 ROSWELL N.M.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.



 Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

STATE ENGINEER OFFICE

WELL RECORD

FILED

Section 1. GENERAL INFORMATION

(A) Owner of well Byrl Harris Owner's Well No. _____
 Street or Post Office Address 9128 Gold
 City and State Hobbs, New Mexico 88240

Well was drilled under Permit No. L-7754 and is located in the:
 a. SE NE $\frac{1}{4}$ of Section 29 Township 18S Range 38E N.M.P.M.
 b. Tract No. _____ of Map No. _____ of the _____
 c. Lot No. _____ of Block No. _____ of the _____
 Subdivision, recorded in Lea County.
 d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
 the _____ Grant.

(B) Drilling Contractor O. R. Musslewhite License No. WD99
 Address Box 56 Hobbs, New Mex.

Drilling Began Sept. 8-77 Completed Sept. 14-77 Type tools Cable Size of hole 8 in.
 Elevation of land surface or _____ at well is _____ ft. Total depth of well 207 ft.
 Completed well is shallow artesian. Depth to water upon completion of well 50 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
55	105	50	Sand & rock	
152	180	28	Sand, consolidated	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
5 $\frac{1}{2}$	15	8	0	207	207	none	160	200

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
 Address _____
 Plugging Method _____
 Date Well Plugged _____
 Plugging approved by: _____
 State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received September 21, 1977 Well # 3 of Hobbs - 1-4-251 (1975)
 Quad _____ FWL _____ FSL _____
 File No. L-7754 Use DTC Location No. 18.38.29.224223

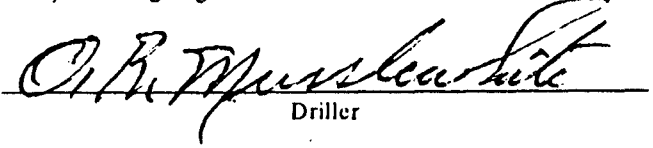
Section 6. LOG OF HOLE

Depth in Feet		Thickness in Feet	Color and Type of Material Encountered
From	To		
0	1	1	Soil & rock
1	27	26	Caliche & rock
27	50	23	Sandy shale
50	105	55	Sand
105	112	7	Sand rock, hard
112	152	40	Sandy shale
152	180	28	Sand, consolidated
180	205	25	Sandy shale, gravel
205	207	2	Shale
			L S Elev _____ <u>3640</u> Depth to K _____ Trc <u>205</u> Elev of K _____ Trc <u>3435</u>
			Loc. No. <u>18.38.29.224223</u> Hydro. Survey _____ Field Check <u>FB</u>
			SOURCE OF ALTITUDE GIVEN
			Interpolated from Topo. Sheet _____
			Determined by Inst. Leveling _____
			Other <u>Hobby's Mosaic</u>

Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE ENGINEER OFFICE
 ROSWELL, N.M.
 77 SEP 21 AM 8 34

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.


 Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. Questions, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 3 need be completed.

STATE ENGINEER OFFICE
WELL RECORD

FIELD ENG. LOG

Section 1. GENERAL INFORMATION

(A) Owner of well Tommy Corp. Owner's Well No. L-8191
Street or Post Office Address 2125 French Dr. P. O. Box 778
City and State Hobbs, N.M. 88240

Well was drilled under Permit No. _____ and is located in the:
a. ^{SE} NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 29 Township 18 South Range 38 East N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Leo Greenwood License No. WD-826
Greenwood Water Well Service
Address Star Route C Box 300 Hobbs, N.M. 88240

Drilling Began 1/05/80 Completed 1/20/80 Type tools 10"2 Bit Size of hole 11 in.
Elevation of land surface or _____ at well is 0 ft. Total depth of well 120 ft.
Completed well is shallow artesian. Depth to water upon completion of well 120 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
0	28'	28'	Limestone	None
28	65	37'	Sand - surface water	Mudded off
65	120	55'	Sand rock	50 Gal

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
6"	90	Plastic	0	120	120	Gravel pack	90	120

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
28'	65'	11"	5	None	Dropped

Section 5. PLUGGING RECORD

Plugging Contractor None
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received January 15, 1981 Quad _____ FWL _____ FSL _____
File No. L-8191 Use DTC Location No. 18.38.29.22424

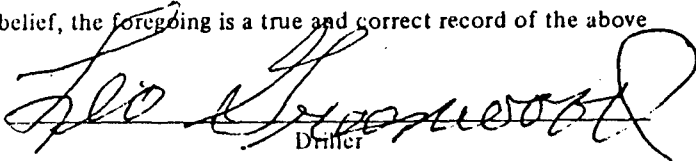
Section 6. LOG OF HOLE

Depth in Feet		Thickness in Feet	Color and Type of Material Encountered
From	To		
			See Other Side

Section 7. REMARKS AND ADDITIONAL INFORMATION

1911 FEB 15 AM 9 30
 STATE ENGINEER OFFICE
 ROSSVILLE, N.M. OFFICE

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.


 Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 7 need be completed.

STATE ENGINEER OFFICE
WELL RECORD

FIELD ENG. LOG

Section 1. GENERAL INFORMATION

(A) Owner of well Tommy McDaniels Owner's Well No. _____
Street or Post Office Address P.O. Box 778
City and State Hobbs, NM 88240

Well was drilled under Permit No. L-8860 and is located in the:

- a. 1/4 1/4 N1/2 1/4 NE 1/4 of Section 29 Township 18S Range 38E N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Larry's Drilling License No. WD882
Address 2601 W. Bender Hobbs, NM

Drilling Began 12-12--83 Completed 12-12-83 Type tools tricone Size of hole 83/4 in.
Elevation of land surface or _____ at well is _____ ft. Total depth of well 130 ft.
Completed well is shallow artesian. Depth to water upon completion of well 39 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
<u>XX</u>				
<u>123</u>	<u>130</u>	<u>7</u>	<u>sand & sandstone</u>	<u>30</u>

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
<u>51/2</u>	<u>160PVC</u>		<u>-1</u>	<u>130</u>	<u>130</u>		<u>110</u>	<u>130</u>

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

FOR USE OF STATE ENGINEER ONLY

Date Received December 16, 1983 Quad _____ FWL _____ FSL _____
File No. L-8860 Use D & S Location No. 18.38.29.22434

Section 6. LOG OF HOLE

Depth in Feet		Thickne in Feet	Color and Type of Material Encountered
From	To		
0	1	1	topsoil
1	19	18	soft caliche
19	24	5	hard red rock
24	32	8	caliche
32	36	4	sand
36	39	3	caliche
39	43 xxx	4	red rock
43	118	75	sand & thin layers of sandstone
118	123	5	hard white rock
123	130	7	sand & sandstone

Section 7. REMARKS AND ADDITIONAL INFORMATION

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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.


Driller

INSTRUCTIONS: This form shall be executed in triplicate, preferably typewritten, and submitted to appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled.

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Norman Williams Owner's Well No. _____
Street or Post Office Address 3030 Lanehart
City and State Hobbs, NM 88240

Well was drilled under Permit No. -WD882 L-8370 and is located in the:

- a. NE SE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 29 Township 18S Range 38E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Larry's Drilling License No. WD882
Address 2601 W. Bender Hobbs, NM 88240

Drilling Began 10-20-80 Completed 10-21-80 Type tools tricone Size of hole 12 1/4 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 120 ft.

Completed well is shallow artesian. Depth to water upon completion of well 60 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
70	110	40	sand and sandstone	325

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
5 5/8	160PVC	PVC	0	120	120	none	100	120

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received October 31, 1980

Quad _____ FWL _____ FSL _____

File No. L-8370

Use DTC

Location No. 18.38.29.24224.22442

Section 6. LOG OF HOLE

Depth in Feet		Thickn in Feet	Color and Type of Material Encountered
From	To		
0	1	1	topsoil
1	40	39	caliche
40	60	20	sand
60	70	10	hard rock gray
70	110	40	sand and sandstone
110	120	10	hard gray rock

STATE ENGINEER OFFICE
 ROSWELL, N. M. 88520
 OCT 31 AM 8 27

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Samp Zilkin
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to appropriate district office of the State Engineer. A. Sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 2 need be completed.

STATE ENGINEER OFFICE

WELL RECORD

FIELD ENGINEER LOG

Section 1. GENERAL INFORMATION

(A) Owner of well Dow Cottrell Owner's Well No. _____
 Street or Post Office Address 400 Cottrell
 City and State Hobbs, New Mexico, 88240

Well was drilled under Permit No. L-8228 and is located in the:

- a. SE $\frac{1}{4}$ ~~XMX~~ $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 29 Township 18S Range 38E N.M.P.M.
 b. Tract No. _____ of Map No. _____ of the _____
 c. Lot No. _____ of Block No. _____ of the _____
 Subdivision, recorded in _____ County.
 d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Oldaker's and Son's License No. WD-657

Address P. O. Box 2321, Hobbs, New Mexico, 88240

Drilling Began 3/10/80 Completed 3/11/80 Type tools rotary Size of hole 10 $\frac{1}{2}$ in.

Elevation of land surface or 3650 at well is 3650 ft. Total depth of well 115 ft.

Completed well is shallow artesian. Depth to water upon completion of well 68 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
68	115	47	Water, Sand	25 GPM

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
6 5/8			0	115	115	none	105	115

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
		10 $\frac{1}{2}$			

Section 5. PLUGGING RECORD

Plugging Contractor _____
 Address _____
 Plugging Method _____
 Date Well Plugged _____
 Plugging approved by: _____
 State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received August 28, 1980

Quad _____ FWL _____ FSL _____

File No. L-8228 Use DTC. Location No. 18.38.29.22444

Section 6. LOG OF HOLE

Depth in Feet		Thick in Feet	Color and Type of Material Encountered
From	To		
0	3	3	Top Soil
3	28	25	Caliche
28	33	5	Hard Brown Rock
33	43	10	Sand
43	51	8	Hard Brown Rock
51	115	64	Sand
115			

Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE ENGINEER OFFICE
 ROSWELL, N.M.
 AUG 28 AM 7 59

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Gade Oedaker
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

STATE ENGINEER OFFICE
WELL RECORD

FIELD ENGR. LOG

Section 1. GENERAL INFORMATION

(A) Owner of well N. F. WILLIAMS Owner's Well No. L-7839
Street or Post Office Address 2601 W. BENDER
City and State HOBBS N.M. 88240

Well was drilled under Permit No. L-7839 and is located in the:

- a. $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 29 Township 18 Range 38E N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in LEA County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor YUCCA DRILLING CO. License No. WD-763

Address 2601 W. BENDER HOBBS N.M. 88240

Drilling Began 2-19-78 Completed 2-19-78 Type tools HAMMER Size of hole 8 1/2 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 120 ft.

Completed well is shallow artesian. Depth to water upon completion of well 60 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
<u>60</u>	<u>120</u>	<u>60</u>	<u>SAND + SANDSTONE</u> <u>PEBBLES</u>	<u>45</u>

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
<u>5 5/8</u>	<u>PVC 160</u>		<u>0</u>	<u>120</u>	<u>20</u>		<u>100</u>	<u>120</u>

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
<u>0</u>	<u>120</u>	<u>8 1/2</u>			<u>AIR</u>

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

FOR USE OF STATE ENGINEER ONLY

Date Received February 27, 1978 Quad _____ FWL _____ FSL _____
File No. L-7839 Use DOM Location No. 18.38.29.240

STATE ENGINEER OFFICE
WELL RECORD

FIELD FROM LOG

Section 1. GENERAL INFORMATION

(A) Owner of well J. D. Whesenhunt Owner's Well No. _____
Street or Post Office Address 3010 Lanehart
City and State Hobbs, N. M. 88240

Well was drilled under Permit No. L-8135 and is located in the:

- a. $\frac{1}{4}$ $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 29 Township 18 S Range 38 E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor G. D. Oldaker License No. W D657

Address P. O. Box 2321

Drilling Began 8-15-79 Completed 8-18-79 Type tools Cable Size of hole 9 in.

Elevation of land surface or 3650 at well is 3650 ft. Total depth of well 130 ft.

Completed well is shallow artesian. Depth to water upon completion of well 62 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
62	130	68	Water and Sand	25 GPM

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
7			0	130	130	None	110	130

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
		9			

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received September 23, 1980 Quad _____ FWL _____ FSL _____

File No. L-8135 Use DOM. Location No. 18.38.29.24

Section 6. LOG OF HOLE

Depth in Feet		Thick in Feet	Color and Type of Material Encountered
From	To		
0	2	2	Top Soil
2	17	15	Caliche
17	42	25	Gray Soil
42	44	2	Sand Stone
44	130	86	Water Sand
130			

Section 7. REMARKS AND ADDITIONAL INFORMATION

'80 SEP 23 AM 8 06
STATE ENGINEER OFFICE
ROSWELL, N.M.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

G. D. Oldaker *(Signature)*
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. A. When this form is used as a plugging record, only Section 1(a) and Section 1(b) need be completed.

STATE ENGINEER OFFICE
WELL RECORD

FIELD ENGR. LOG

Section 1. GENERAL INFORMATION

(A) Owner of well Daniel Sage Owner's Well No. _____
Street or Post Office Address 400 Cottrell Lane
City and State Hobbs, N.M. 88240

Well was drilled under Permit No. L-8737 and is located in the:

- a. SE ¼ NE ¼ _____ ¼ of Section 29 Township 18 Range 38 N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Gene Eades License No. WD 982

Address Route 4 Tahoka, Tx. 79373

Drilling Began 4-7-82 Completed 4-7-82 Type tools Rotary Size of hole 8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 132 ft.

Completed well is shallow artesian. Depth to water upon completion of well 60 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
50	132	82	Sand, sandstone, rock stringers	35

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
5 3/4	160 psi				134		112	132

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received April 19, 1982 Quad _____ FWL _____ FSL _____
File No. L-8737 Use _____ DOM. _____ Location No. 18.38.29.24

Depth in Feet		Thickness in Feet	Color and Type of Material Encountered
From	To		
0	1	1	Top soil
1	15	14	Caliche rock
15	20	5	Sand
20	50	30	Rock
50	132	82	Sand, sandstone, rock stringers

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.



 Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 2 need be completed.

STATE ENGINEER OFFICE

WELL RECORD

FIELD ENGINEER LOG

Section 1. GENERAL INFORMATION

(A) Owner of well Max White Owner's Well No. _____
 Street or Post Office Address 500 Cottrell
 City and State Hobbs, New Mexico, 88240

Well was drilled under Permit No. L-8229 and is located in the:

- a. NW ¼ SE ¼ NE ¼ _____ ¼ of Section 29 Township 18S Range 38E N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
 Subdivision, recorded in _____ County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
 the _____ Grant.

(B) Drilling Contractor Oldaker's and Son's License No. WD-657
 Address P. O. Box 2321, Hobbs, New Mexico, 88240

Drilling Began 3/8/80 Completed 3/9/80 Type tools rotary Size of hole 10½ in.
 Elevation of land surface or 3650 at well is 3650 ft. Total depth of well 115 ft.
 Completed well is shallow artesian. Depth to water upon completion of well 68 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
68	115	47	Water, Sand	25 GPM

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
6 5/8			0	115	115	none	105	115

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
		10½			

Section 5. PLUGGING RECORD

Plugging Contractor _____
 Address _____
 Plugging Method _____
 Date Well Plugged _____
 Plugging approved by: _____
 State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received August 28, 1980 Quad _____ FWL _____ FSL _____
 File No. L-8229 Use DOM. Location No. 18.38.29.241

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well _____ Owner's Well No. _____
Street or Post Office Address _____
City and State _____

Well was drilled under Permit No. _____ and is located in the:

- a. _____ ¼ _____ ¼ _____ ¼ _____ ¼ of Section _____ Township _____ Range _____ N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor _____ License No. _____

Address _____

Drilling Began _____ Completed _____ Type tools _____ Size of hole _____ in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well _____ ft.

Completed well is shallow artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received **Typed** 3/14/78

Quad _____ FWL _____ FSL _____

File No. _____ Use **011** Location No. **18.38.29.24100**

Section 6. LOG OF HOLE

Depth in Feet		Thickness in	Color and Type Material Encountered
From	To		
0	20		Caliche
20	35		Granite
35	60		Caliche, hard
60	75		Sand
75	190		Sand with lime stringers
190	210		Red bed
210	220		Sandy shale
			LS Elev _____ <u>3647</u>
			Depth to K _____ Trc <u>190</u>
			Elev of K _____ Trc <u>3457</u>

Section 7. REMARKS AND ADDITIONAL INFORMATION

This well record is an excerpt from Oil Conservation Commission files at Hobbs, N.M.

Location: 18.38.29.24100

Elevation: 3647' ✓

Owner: Tide Water Asso. Oil Co.

W. D. Grimes #5

Record of Casing: 12½" - 214'

Cable

1650' FNL - 990' FEL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All questions, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 2 need be completed.

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1

(A) Owner of well E. B. F...
 Street and Number _____
 City ... State ...
 Well was drilled under Permit No. _____ and is located in the
 _____ 1/4 _____ 1/4 _____ 1/4 of Section _____ Twp _____ Rge. _____
 (B) Drilling Contractor ... License No. _____
 Street and Number _____
 City _____ State _____
 Drilling was commenced _____ 19____
 Drilling was completed _____ 19____

(Plat of 640 acres)

Elevation at top of casing in feet above sea level _____ Total depth of well _____
 State whether well is shallow or artesian ... Depth to water upon completion _____

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1				
2				
3				
4				
5				

Section 3 RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5 PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
 Street and Number _____ City _____ State _____
 Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
 Plugging method used _____ Date Plugged _____ 19____
 Plugging approved by: _____ Cement Plugs were placed as follows:

Basin Supervisor _____

FOR USE OF STATE ENGINEER ONLY

Date Received _____

1970 OCT 16 PM 10:36

No.	Depth of Plug		No. of Sacks Used
	From	To	

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Norman L. Williams Owner's Well No. _____
Street or Post Office Address 804 Princess Jeanne
City and State Hobbs, New Mexico 88240

Well was drilled under Permit No. L-7432 and is located in the:

- a. $\frac{1}{4}$ $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 29 Township 18S Range 38E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Abbott Bros. License No. WD-46
Address P.O. Box 637, Hobbs, New Mexico 88240

Drilling Began 9/24/75 Completed 9/26/75 Type tools Cable Size of hole 8 in.
Elevation of land surface or _____ at well is _____ ft. Total depth of well 125 ft.
Completed well is shallow artesian. Depth to water upon completion of well 55 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
55	125	70	Sand	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
6 5/8	23	10	0	125	125	NONE	75	125

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
					Cement at top.

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received _____

Quad _____ FWL _____ FSL _____

File No. L-7432 Use 2010 Location No. 16.35.21.27411

STATE ENGINEER OFFICE
WELL RECORD

1133 100

Section 1. GENERAL INFORMATION

(A) Owner of well N. E. Williams Owner's Well No. _____
Street or Post Office Address 600 East Stanolind Rd.
City and State Hobbs, New Mexico 88240

Well was drilled under Permit No. L-7434 and is located in the:

- a. $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 29 Township 18S Range 38E N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Abbott Bros. License No. WD-46

Address P.O. Box 637, Hobbs, New Mexico 88240

Drilling Began 9/28/75 Completed 9/30/75 Type tools Cable Size of hole 8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 125 ft.

Completed well is shallow artesian. Depth to water upon completion of well 55 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
55	125	70	Sand	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
6 5/8	23	Welded	0	125	125	None	75	125

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
					Cement at top.

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received _____

Quad _____ FWL _____ FSL _____

File No. 2-7434 Use 2011 Location No. 18-38-29-211134

He Lost His Papers

Revised June 1972

STATE ENGINEER OFFICE
WELL RECORD

BLIND WELL LOG

Section 1. GENERAL INFORMATION

(A) Owner of well LARRY Felkins Owner's Well No. _____
Street or Post Office Address 1707 Oriole
City and State Hobbs N.M.

Well was drilled under Permit No. L-7673 and is located in the:

a. NE 1/4 1/4 NE 1/4 NE 1/4 NE of Section 29 Township 18 S Range 38 E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor T J Stone License No. W0-576

Address 707 NW AVE H Seminole Tex

Drilling Began 2-5-78 Completed 2-10-78 Type tools CABLE Size of hole 10 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 125 ft.

Completed well is shallow artesian. Depth to water upon completion of well 50 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
<u>60</u>	<u>85</u>	<u>25</u>	<u>white sand</u>	<u>50</u>
<u>85</u>	<u>125</u>	<u>40</u>	<u>Brown sand</u>	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
<u>6 5/8</u>	<u>20</u>	<u>weld.</u>	<u>✓</u>	<u>✓</u>	<u>25</u>	<u>Home made</u>	<u>100</u>	<u>125</u>

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____

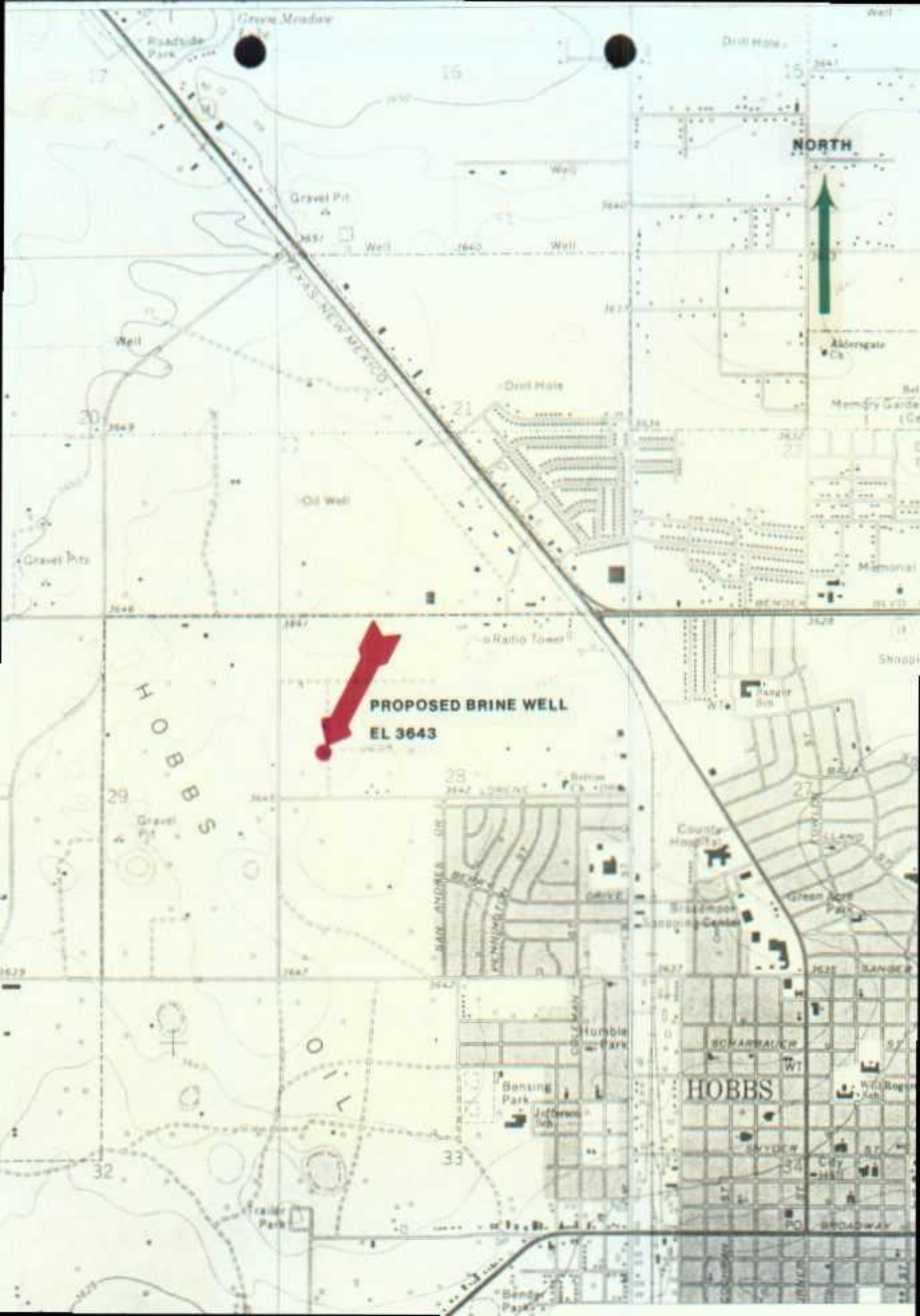
No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

State Engineer Representative

FOR USE OF STATE ENGINEER ONLY

Date Received May 31, 1978

Quad _____ FWL _____ FSL _____



NORTH

**PROPOSED BRINE WELL
EL 3643**

HOBBS

HOBBS

Green Meadow

Roadside Park

Gravel Pit

Well

Well

Well

Well

3649

Gravel Pits

3646

Oil Well

Drill Hole

Radio Tower

Abernethy Co.

Memorial

Shopp

29

Gravel Pit

3629

3647

28

SANDY ANCHORS DR

WINDING CREEK

DRIVE

County Hospital

Greenwood Shopping Center

Greenwood Park

SANDY

Bessing Park

Jumbo Park

32

Radio Park

33

SANDY

HOBBS

WYDER

34

BROADWAY

Attachment "M"

Plugging Bond

STATE OF NEW MEXICO

Revised 6-17-77

\$50,000.00 BLANKET PLUGGING BOND

BOND NO. 4356142
(For Use of Surety Company)

(Note: File with Oil Conservation Commission, P. O. Box 2088, Santa Fe 87501)

KNOW ALL MEN BY THESE PRESENTS:

That AGUA, INC. ~~XXXXXXXXXXXXXXXXXXXX~~
(a corporation organized in the State of New Mexico, with its principal office in the city of Hobbs, State of New Mexico, and authorized to do business in the State of New Mexico), as PRINCIPAL, and Hartford Accident & Indemnity Company, a corporation organized and existing under the laws of the State of Connecticut, and authorized to do business in the State of New Mexico, as SURETY, are held firmly bound unto the State of New Mexico, for the use and benefit of the Oil Conservation Commission of New Mexico pursuant to Section 65-3-11, New Mexico Statutes Annotated, 1953 Compilation, as amended, in the sum of Fifty Thousand Dollars (\$50,000.00) lawful money of the United States, for the payment of which, well and truly to be made, said PRINCIPAL and SURETY hereby bind themselves, their successors and assigns, jointly and severally, firmly by these presents.

The conditions of this obligation are such that:

WHEREAS, The above principal has heretofore or may hereafter enter into oil and gas leases, or carbon dioxide (CO₂) gas leases, or helium gas leases with the State of New Mexico; and

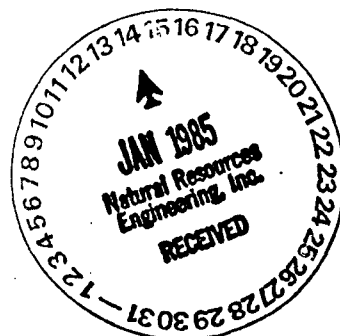
WHEREAS, The above principal has heretofore or may hereafter enter into oil and gas leases, or carbon dioxide (CO₂) gas leases, or helium gas leases on lands patented by the United States of America to private individuals, and on lands otherwise owned by private individuals; and

WHEREAS, The above principal, individually, or in association with one or more other parties, has commenced or may commence the drilling of wells to prospect for and produce oil or gas, or carbon dioxide (CO₂) gas or helium gas, or does own or may acquire, own or operate such wells, or such wells started by others on land embraced in said State oil and gas leases, or carbon dioxide (CO₂) gas leases, or helium gas leases, and on lands patented by the United States of America to private individuals, and on lands otherwise owned by private individuals, the identification and location of said wells being expressly waived by both principal and surety hereto.

NOW, THEREFORE, If the above bounden principal and surety or either of them or their successors or assigns, or any of them, shall plug all of said wells when dry or when abandoned in accordance with the rules, regulations, and orders of the Oil Conservation Commission of New Mexico in such way as to confine the oil, gas, and water in the strata in which they are found, and to prevent them from escaping into other strata;

THEN, THEREFORE, This obligation shall be null and void; otherwise and in default of complete compliance with any and all of said obligations, the same shall remain in full force and effect.

PROVIDED, HOWEVER, That thirty (30) days after receipt by the Oil Conservation Commission of New Mexico of written notice of cancellation from the surety, the obligation of the surety hereunder shall terminate as to property or wells acquired, drilled, or started after said thirty (30) day period but shall continue in effect, notwithstanding said notice, as to property or wells theretofore acquired, drilled, or started.



AGUA, INC.

PRINCIPAL

Box 1978, Hobbs, New Mexico 88240

Address

By W.G. Abbott
W.G. Abbott Signature
President Title

(Note: Principal, if corporation, affix corporate seal here.)

HARTFORD ACCIDENT & INDEMNITY COMPANY
SURETY

P.O. Box 1258, Hobbs, New Mexico 88240

Address

By Pat Cargile
Pat Cargile Attorney-in-Fact

(Note: Corporate surety affix corporate seal here.)

ACKNOWLEDGMENT FORM FOR NATURAL PERSONS

STATE OF _____)
COUNTY OF _____) ss.

On this _____ day of _____, 19____, before me personally appeared _____, to me known to be the person (persons) described in and who executed the foregoing instrument and acknowledged that he (they) executed the same as his (their) free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

Notary Public

My Commission expires _____

ACKNOWLEDGMENT FORM FOR CORPORATION

STATE OF New Mexico)
COUNTY OF Lea) ss.

On this 5th day of December, 1977, before me personally appeared W. G. Abbott, to me personally known who, being by me duly sworn, did say that he is President of AGUA, INC. and that the foregoing instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

Ann R. Janica
Notary Public

My Commission Expires
February 13, 1978

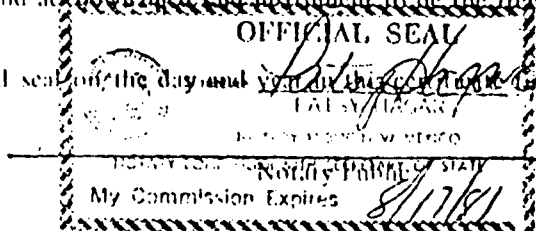
My Commission expires _____

ACKNOWLEDGMENT FORM FOR CORPORATE SURETY

STATE OF New Mexico)
COUNTY OF Lea) ss.

On this 5th day of December, 1977, before me appeared Pat Cargile, to me personally known, who, being by me duly sworn, did say that he is Attorney-in-Fact of Hartford Accident & Indemnity Company and that the foregoing instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.



My Commission expires _____

(Note: Corporate surety attach power of attorney.)

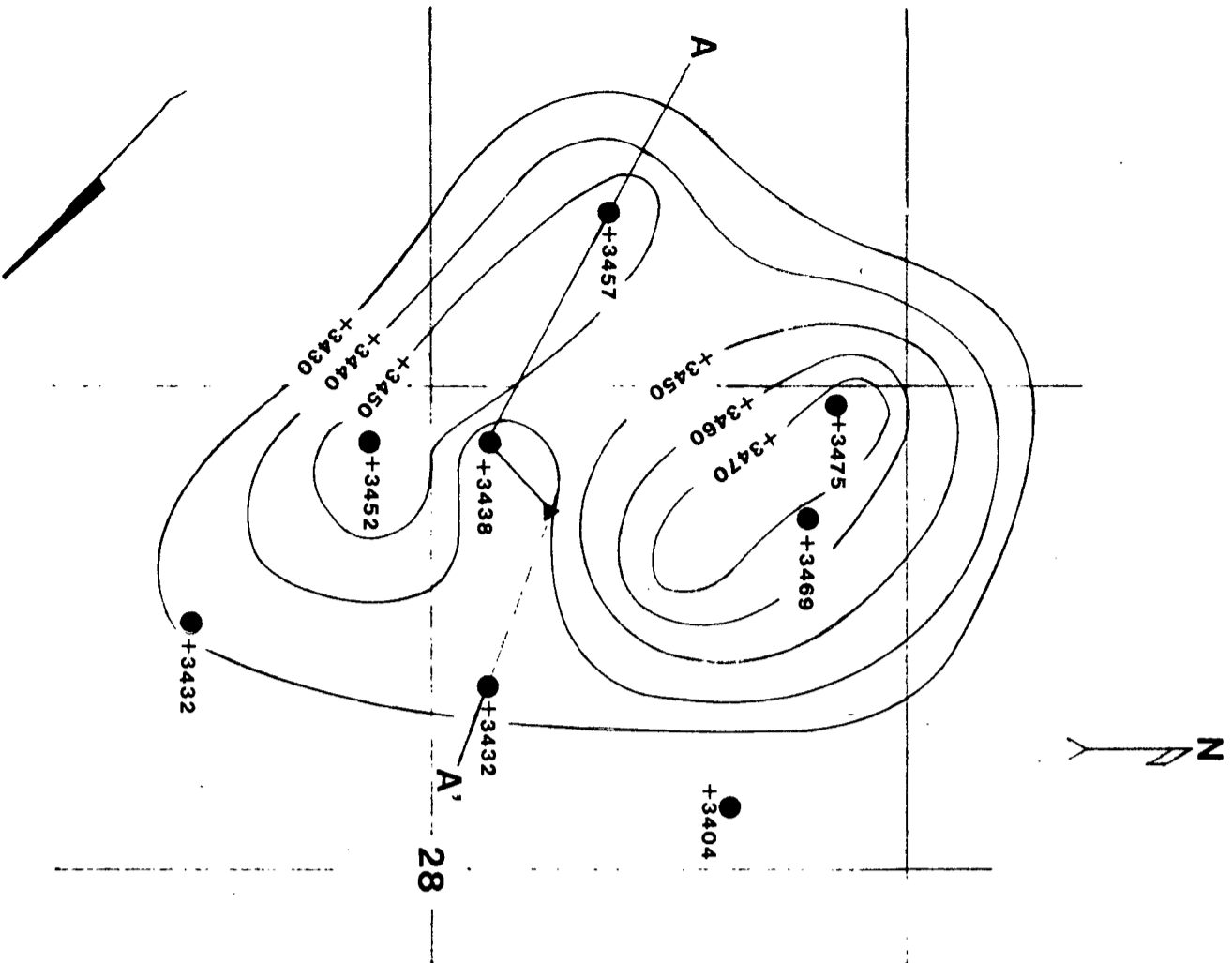
APPROVED BY:
OIL CONSERVATION COMMISSION OF NEW MEXICO

By _____

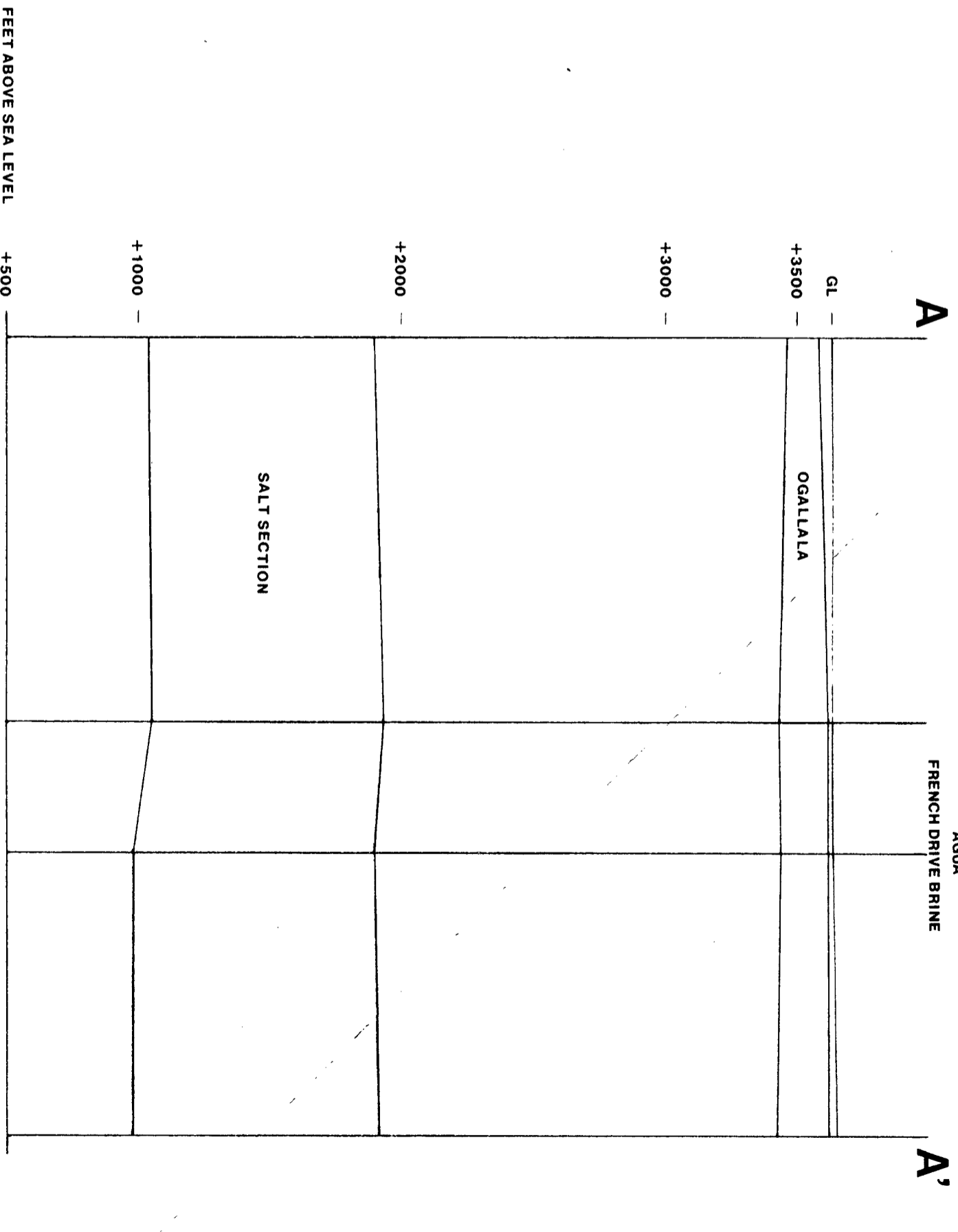
Date _____

STRUCTURE MAP BASE OF THE OGALLALA

CROSS SECTION A-A'



DIRECTION OF WATER MOVEMENT
 A AGUA FRENCH DRIVE BRINE
 SCALE 1" = 1000'



AGUA FRENCH DRIVE BRINE
 TIDE WATER ASSO. OIL CO.
 W. D. GRIMES #5
 1650' FNL & 990' FEL
 S29-T18S-R38E

ARCO
 W. D. GRIMES SOC #1
 2310' FNL & 330' FWL
 S28-T18S-R38E

SINCLAIR OIL & GAS
 GRIMES #2
 1650' FWL & 2310' FNL
 S28-T18S-R38E

NOTES

REVISIONS

BY DATE

NATURAL RESOURCES ENGINEERING INC.
 AGUA, INC. FRENCH DRIVE BRINE

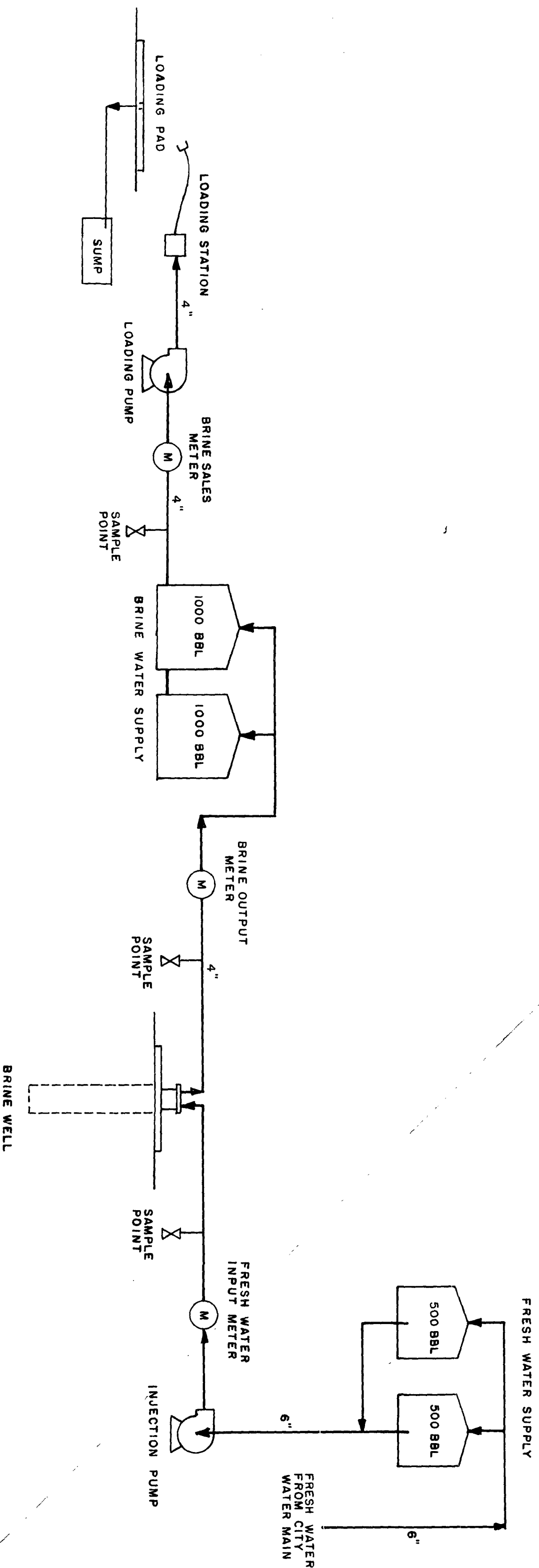
NRE
 Engineers/Geologists

JOB. NO.
 AG01-001-001

STRUCTURE MAP & CROSS SECTION

DWG. NO.
 AG-01

DRAWN BY JTC CHECKED JTC APPROVED JTC DATE 7-2-87 SHT 1 OF 1



AGUA, INC.
 HOBBS, NEW MEXICO
 FRENCH BRINE SYSTEM
 SYSTEM SCHEMATIC

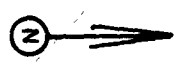
SCALE

SECTION 28, TOWNSHIP 18 SOUTH, RANGE 38 EAST
 LEA COUNTY
 NEW MEXICO

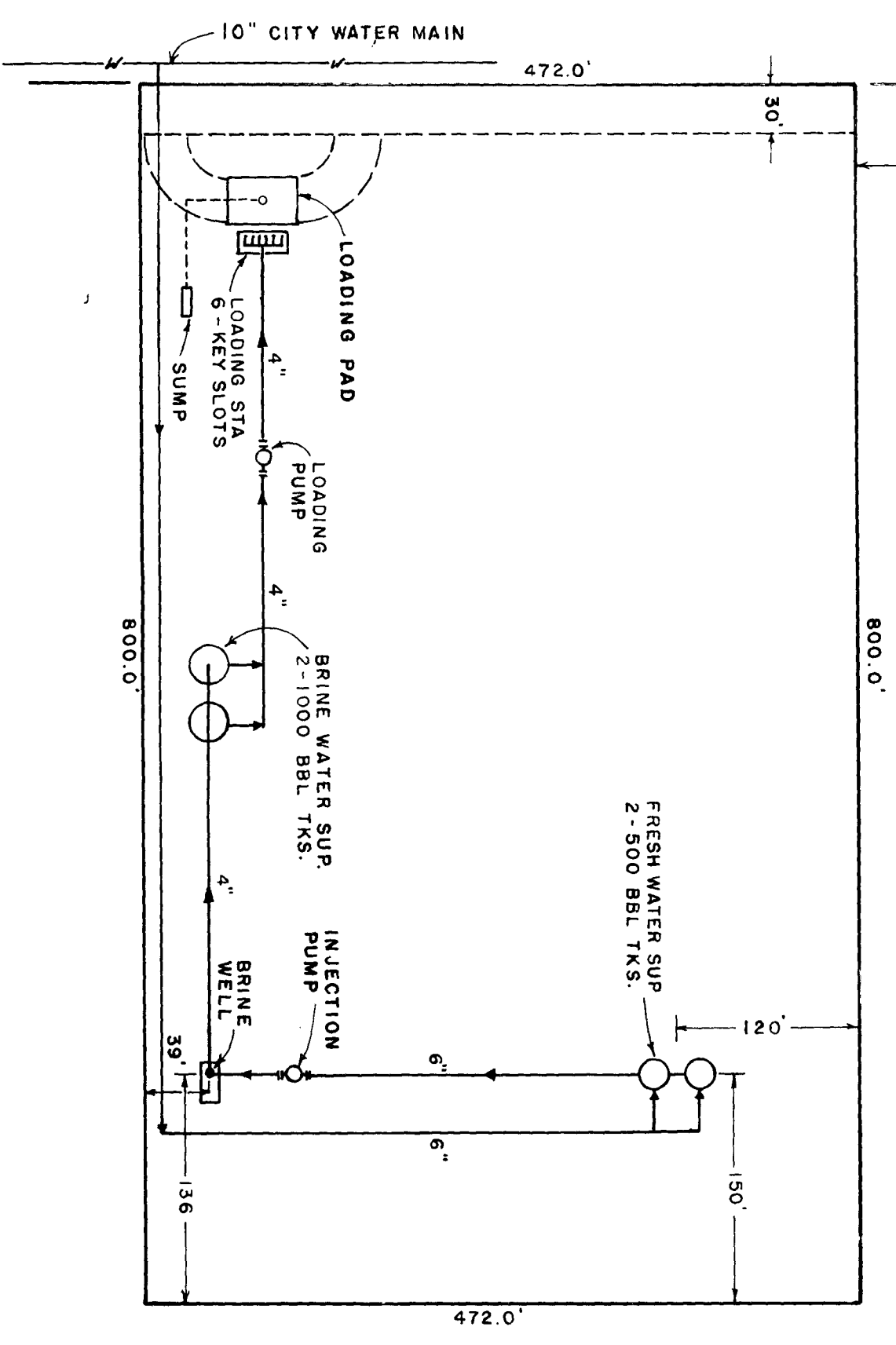
20 21
 29 28

Q BENDER ST

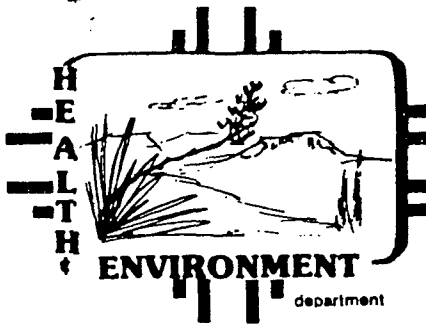
Q FRENCH DR.



NOTE:
 ALL LINES TO BE BURIED TO
 MIN. OF 24" B.O.P.



AGUA, INC.
 HOBBS, NEW MEXICO
 FRENCH BRINE SYSTEM
 FACILITY PLOT PLAN
 SCALE 1" = 100 FEET



STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION
P.O. Box 968, Santa Fe, New Mexico 87504-0968
(505) 984-0020
STEVEN ASHER, Director

TONY ANAYA
GOVERNOR

Joseph Goldberg
SECRETARY

Ted Guambana
DEPUTY SECRETARY

JOSEPH F. JOHNSON
DEPUTY SECRETARY

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

May 26, 1984

W.G. Abbott
Agua Inc.
Box 1978
Hobbs, NM 88240

Dear Mr. Abbott:

Pursuant to New Mexico Water Quality Control Commission Regulations, enclosed, you are hereby notified that a discharge plan as defined in Section 1-101.P. is required for your proposed brine in situ extraction well and associated facilities to be located in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 25, T18S, R36E in Lea County, New Mexico.

This notification of discharge plan requirement is pursuant to Sections 3-104, 3-106, and 5-101.B. of the regulations.

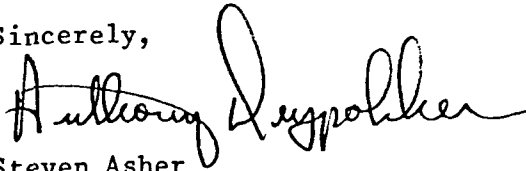
Please be advised that any discharge from your facility without prior approval from EID would be in violation of the regulations. Before discharging you must have a discharge plan approved by EID.

Enclosed for your convenience is an outline to guide the preparation of a brine extraction well discharge plan. This outline is still in draft form, and subject to change; but even when finalized, use of this format will be optional. The codes in bold type throughout the outline refer to sections in the Water Quality Control Commission Regulations that apply to brine wells: these regulations are your ultimate guide as to what to include in the discharge plan.

W.G. Abbott
May 26, 1984
Page 2

If you have any questions, please contact Paige Grant of the Environmental Improvement Division staff at the above address and telephone number (ext. 285).

Sincerely,

for 
Steven Asher
DIRECTOR

SA:PG:egr

Enclosures: WQCC Regulations
Application outline

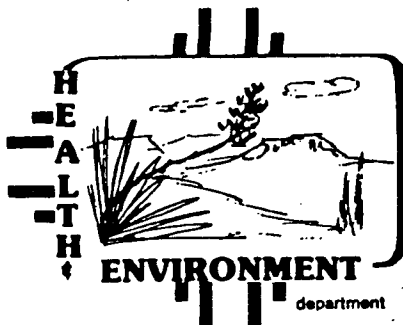
cc: John Guinn, EID District IV, Manager
EID Field Office, Hobbs

PS Form 3800, Feb. 1982

Sent to	<i>W.G. Abbott</i>
Street and No.	<i>Box 1978</i>
P.O., State and ZIP Code	<i>Hobbs, NM</i>
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	

(See Reverse)

P 456 371 352
RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL



STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION
P.O. Box 968, Santa Fe, New Mexico 87504-0968
(505) 984-0020
STEVEN ASHER, Director

TONEY ANAYA
GOVERNOR

Joseph Goldberg
SECRETARY

Ted Guambana
DEPUTY SECRETARY

JOSEPH F. JOHNSON
DEPUTY SECRETARY

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

May 26, 1984

Drafted by Paige Grant
CONCURRENCES
Goad
Drypolcher
~~Holland~~

APG	5/23/84
MSG	5/24/84
ND	5/25/84

W.G. Abbott
Agua Inc.
Box 1978
Hobbs, NM 88240

Dear Mr. Abbott:

Pursuant to New Mexico Water Quality Control Commission Regulations, enclosed, you are hereby notified that a discharge plan as defined in Section 1-101.P. is required for your proposed brine in situ extraction well and associated facilities to be located in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 25, T18S, R36E in Lea County, New Mexico.

This notification of discharge plan requirement is pursuant to Sections 3-104, 3-106, and 5-101.B. of the regulations.

Please be advised that any discharge from your facility without prior approval from EID would be in violation of the regulations. Before discharging you must have a discharge plan approved by EID.

Enclosed for your convenience is an outline to guide the preparation of a brine extraction well discharge plan. This outline is still in draft form, and subject to change; but even when finalized, use of this format will be optional. The codes in bold type throughout the outline refer to sections in the Water Quality Control Commission Regulations that apply to brine wells: these regulations are your ultimate guide as to what to include in the discharge plan.

W.G. Abbott
May 26, 1984
Page 2

If you have any questions, please contact Paige Grant of the Environmental Improvement Division staff at the above address and telephone number (ext. 285).

Sincerely,

AQ

Steven Asher
DIRECTOR

SA:PG:egr

Enclosures: WQCC Regulations
Application outline

cc: John Guinn, EID District IV, Manager
EID Field Office, Hobbs

5/24/84
Aqua, Inc. submitted a notice
of intent and this is a routine
letter saying a plan is
required. It can be signed
by the Bureau Chief under Asher's
delegation memo, Part III.C.

MSL

Dwight

NOTICE OF INTENT

1. Name and address of the person making the discharge. W.G. Abbott

RECEIVED

Agua Inc.

Box 1978

MAY 16 1984

Hobbs, NM 88240

GROUND WATER/HAZARDOUS WASTE
BUREAU

Telephone: (505) 393-6188

2. Location of the discharge (in Township, Range and Section, $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, if available).

SE/4 SE/4 SE/4 of Section 25, Township 18 South, Range 36 East,

Lea County, New Mexico

3. The means of discharge (To a lagoon, Flowing Stream, Water Course, Arroyo, Septic Tank-Leach field, Other - Specify. _____)

Injection of fresh water into salt formation by means of injection well; storage of extracted brine in: Storage tanks

4. The estimated concentration of contaminants in the discharge. _____

Unknown until such time as the brine water is produced.

~ 10 lb. Brine

5. The type of operation from which the discharge is derived. _____

Solution of under-ground salt section.

6. The estimated flow to be discharged per day. 4630 BSWPD (barrels of salt water per day)

7. The estimated depth to ground water (if available). EST. 75-100 feet (Ogallala)

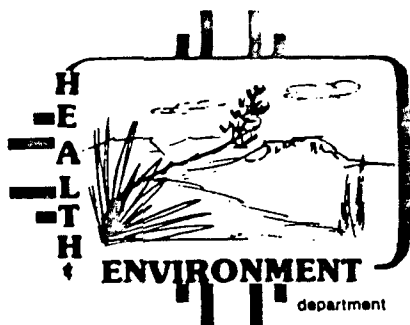
Signed: _____

W.G. Abbott

W.G. Abbott

Date: _____

05/14/84



STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION
P.O. Box 968, Santa Fe, New Mexico 87504-0968
(505) 984-0020
STEVEN ASHER, Director

TONEY ANAYA
GOVERNOR

Joseph Goldberg
SECRETARY

Ted Guambana
DEPUTY SECRETARY

JOSEPH F. JOHNSON
DEPUTY SECRETARY

May 11, 1984

Val Ryan
Agua, Inc.
Box 1978
Hobbs, NM 88240

Dear Mr. Ryan:

In response to your telephone request of May 9th for the forms you need to file in order to receive a permit for your workover brine extraction well, I am sending you the following material:

1. Notice of Intent. Please complete this form and return it to:
Maxine S. Goad, Program Manager
Ground Water Section
(above address)

On the basis of the information provided in your Notice of Intent, a decision will be made whether or not to require a discharge plan for your operation. You will be notified of the decision within sixty days of the date we receive your Notice of Intent.

A discharge plan, as defined in the New Mexico Water Quality Control Commission (WQCC) Regulations (enclosed), is "...a description of methods and conditions including any monitoring and sampling requirements, for the discharge of effluent or leachate which may move directly or indirectly into ground water." The purpose of a discharge plan is to provide the technical staff of EID with sufficient information about your operation to demonstrate that your activities will not cause an exceedance of water quality standards in ground water that contains less than 10,000 mg/l of total dissolved solids (TDS).

In the case of a brine extraction well, a discharge plan will certainly be required.

2. WQCC Regulations. These are enclosed for your reference with regard to the definition of "contaminants" when answering question #4 in your Notice of Intent (see page 21-22). Please give just a characterization of the brine you plan to extract: TDS, chlorides and sulfates would suffice.

Val Ryan

-2-

May 11, 1984

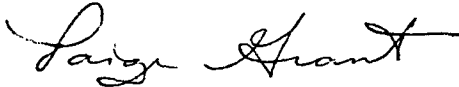
The regulations will also be your guide in preparing the plan which is required for your operation. To help you interpret the regulations as to what is required in a brine extraction well discharge plan, I am also enclosing:

3. A draft outline. Use of this format in developing your discharge plan is purely optional; the codes in bold type in the outline refer to sections of the WQCC Regulations, for your convenience.

Much of the information required in the discharge plan is probably easily available to you. However, some of the requirements, particularly the discussions of geohydrology, are of a highly technical nature. You would be well advised to consider retaining the services of a consulting hydrogeologist who can prepare these elements of your discharge plan, rather than investing the time that would be required for you to learn how to put together this technical material yourself.

If you have any questions on any of the above, please do not hesitate to contact me at the address and telephone number (ext. 285) shown on the letterhead.

Sincerely,



Paige Grant
Hydrologist
Ground Water Section

PG:egr

Enclosures

7/15/84