

30-025-27505

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NEW MEXICO OIL CONSERVATION COMMISSION

Form O-101
Revised 1-1-65

5A. Indicate Type of Lease	
STATE <input checked="" type="checkbox"/>	FEE <input type="checkbox"/>
5. State Oil & Gas Lease No.	
LG 0622	

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well		8. Farm or Lease Name	
DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		Harton-State	
OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		9. Well No.	
2. Name of Operator		#2	
Julian Ard		10. Field and Pool, or Wildcat	
3. Address of Operator		Sawyer West	
P. O. Box 2361, Midland, Texas 79701		UNDESIGNATED	
4. Location of Well		12. County	
UNIT LETTER <u>8N</u> LOCATED <u>660</u> FEET FROM THE <u>South</u> LINE		Lea	
AND <u>1980</u> FEET FROM THE <u>West</u> LINE OF SEC. <u>32</u> TWP. <u>9-S</u> RGE. <u>37-E</u> NMPM			
		19. Proposed Depth	
		5000'	
		19A. Formation	
		San Andres	
		20. Rotary or C.T.	
		Rotary	
21. Elevations (Show whether DT, RT, etc.)		21B. Drilling Contractor	
3977 GR		Verna Drilling	
21A. Kind & Status Plug. Bond		22. Approx. Date Work will start	
State or Nation on file		August 18, 1981	

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/4"	8-5/8	32#	450'	375	Surface
7-7/8	4-1/2	11.60	5000'	300	4000

A.) See attached prognosis

B.) BOP Description
Shaffer, B series. 10" x 900# Hydraulic

***Cement on the production casing must be brought from the top of the salt or anhydrite to the surface casing by either circulating with cement or a DV tool at the top of the salt.

APPROVAL VALID FOR 180 DAYS
PERMIT EXPIRES 2/10/82
UNLESS DRILLING UNDERWAY

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

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

Signed Ed R. R. Title Petroleum Engineer Date 7-27-81

(This space for State Use)

Only Signed by

Jerry Saxon

Dns L. Supp.

APPROVED BY _____ TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

AUG 10 1981

***SEE ABOVE

Well Prognosis

Horton - State #2

West Sawyer Field

Lea County, New Mexico

1980 FWL and 660' FSL, Section 32 9S 37E

1. Drill 12-1/4" hole to 450'.
 - a. Spud with fresh water adding gel and lime as needed to maintain a viscosity of 32 to 34 and a mud weight of 8.8 to 9.0.
 - b. At 450' circulate \pm 30 min and prepare to run 8-5/8 32# K-55 casing.
2. Install float equipment, run casing to bottom and break circulation.
 - a. No centralizers will be utilized for surface pipe.
 - b. Cement casing with 375 sacks class "C" cement containing 2% calcium chloride.
3. Cut-off and nipple up.
4. Drill out from under surface with 7-7/8" bit with fresh water.
 - a. Convert to a native mud maintaining a viscosity of 32 to 34 and a mud weight of 9.1 to 9.3 lbs/gal.
 - b. Maintain a pH of 8.7 to 11 with lime and caustic soda.
 - c. A "saturated brine" may be added at \pm 1900 to help prevent wash-outs in the salt section.
5. Mud up at 4600' maintaining the following properties:

Mud weight -	10.2 to 10.5 lbs/gal
Viscosity -	36 to 38
Water Loss -	10 cc or less
Chlorides -	165,000 pph
pH -	8.7 to 11
6. Drill to T. D. of \pm 5000' and circulate required amount of time to log.
7. Run full sweep of logs as follows:

CNL - FDC

Sonic

Dual Laterolog

8. Trip in hole (if needed) and circulate bottom up. Prepare to run 4-1/2" 11.60 casing.
 - a. Run pipe and cement with 300 sacks Halliburton "Light" cement containing 15# salt/sack.
9. Cuff off and install well head.
10. Release rig as per operators instructions.

Anticipated Formation Tops:

Anhy. 2200'
Rustler. 2350'
Yates 2900'
San Andres 4190'

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

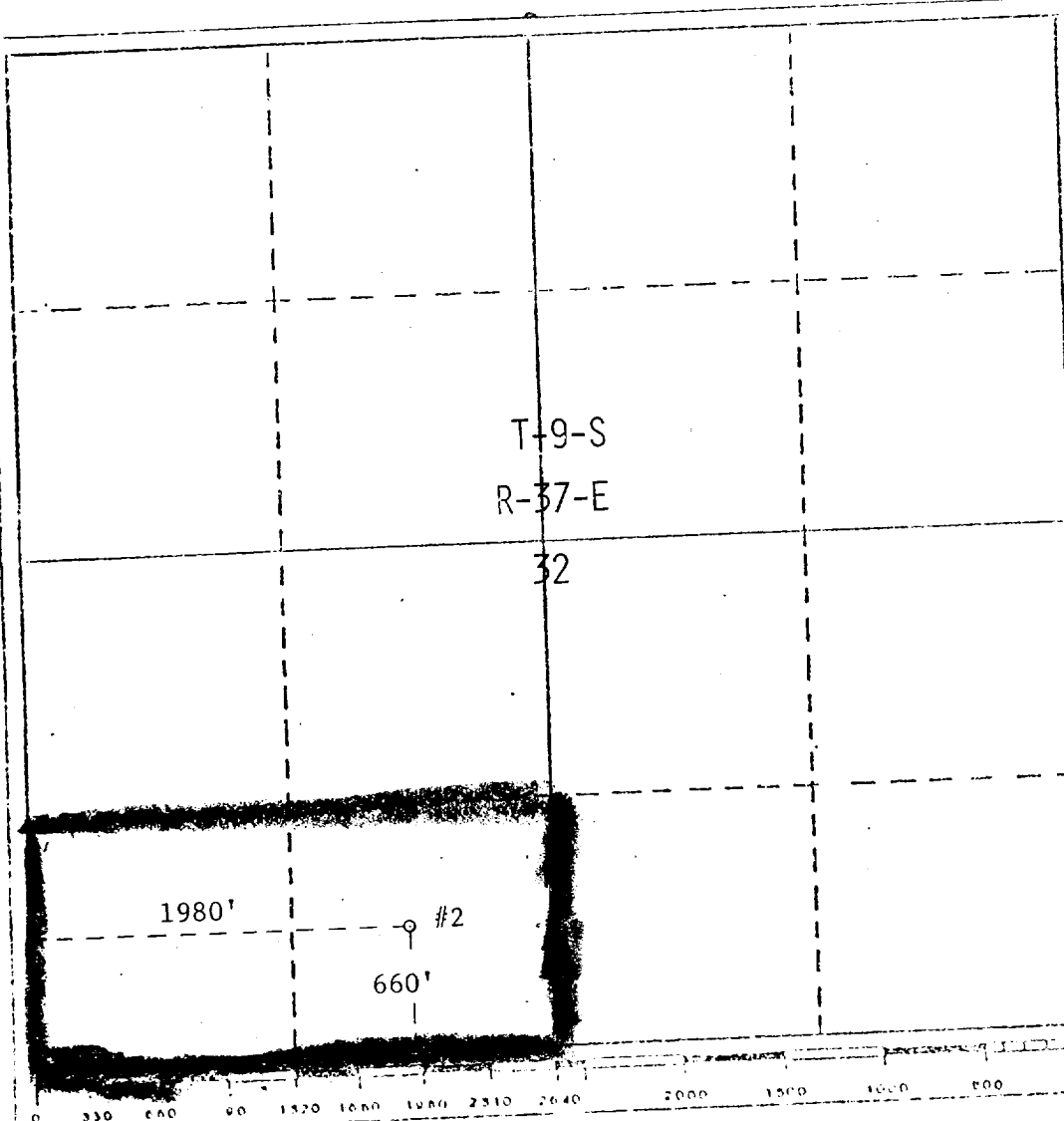
Operator Julian Ard Oil Company		Lease Hardon State		Well No. 2
Unit Letter N	Section 32	Township 9-S	Range 37-E	County Lea
Actual Footage Location of Well:				
660 feet from the South		Line and 1980 feet from the West		Line
Ground Level Elev. 3980'	Producing Formation San Andres	Pool Sawyer-West		Dedicated Acreage: 80 Acres

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

☐ Yes ☐ No If answer is "yes," type of consolidation _____

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

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



CERTIFICATION

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

Ed Robinson

Name

Petroleum Engineer

Position

Julian Ard

Company

July 27, 1981

Date

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

Date Subscribed

July 17, 1981

Registered Professional Engineer and/or Land Surveyor

W. D. Watson, Jr.

Certificate No.

3959

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AUG 7 1981

OIL CONSERVATION DIV.

RECEIVED

JUL 29 1981

OIL CONSERVATION DIV.

MAIL
Conrad Bondy
9/8/81