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# NEW MEXICO OIL CONSERVATION COMMISSION

Form C-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.
OG-1847

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		8. Farm or Lease Name	
DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		State BG	
2. Name of Operator		9. Well No.	
Read & Stevens, Inc.		3	
3. Address of Operator		10. Field and Pool, or Wildcat	
P. O. Box 2126, Roswell, New Mexico 88201		Quail Queen	
4. Location of Well		12. County	
UNIT LETTER B LOCATED 660 FEET FROM THE North LINE		Lea	
AND 1980 FEET FROM THE East LINE OF SEC. 14 TWP. 19-S RGE. 34-E NMPM			
19. Proposed Depth		19A. Formation	
5,600'		Queen	
20. Rotary or C.T.		Rotary	
21. Elevations (Show whether DF, RT, etc.)		21B. Drilling Contractor	
3967' GR - 3977' RKB		Cactus Drlg. Co. Rig #66	
21A. Kind & Status Plug. Bond		22. Approx. Date Work will start	
Statewide		April 18, 1977	

23.

## 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"	24#	400'	150 sx.	Circulated
7 7/8"	4 1/2"	10.5#	5,600'	785 sx.	See prognosis

See attached well prognosis for proposed drilling program and blowout preventer data.  
Casinghead gas from this proration unit is dedicated to Warren Petroleum Company.

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 John L. Andersson Jr. Title Agent Date 4-4-77

(This space for State Use)

APPROVED BY Jerry S. [Signature] TITLE SUPERVISOR DISTRICT 1 DATE APR 6 1977

CONDITIONS OF APPROVAL, IF ANY:

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**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section

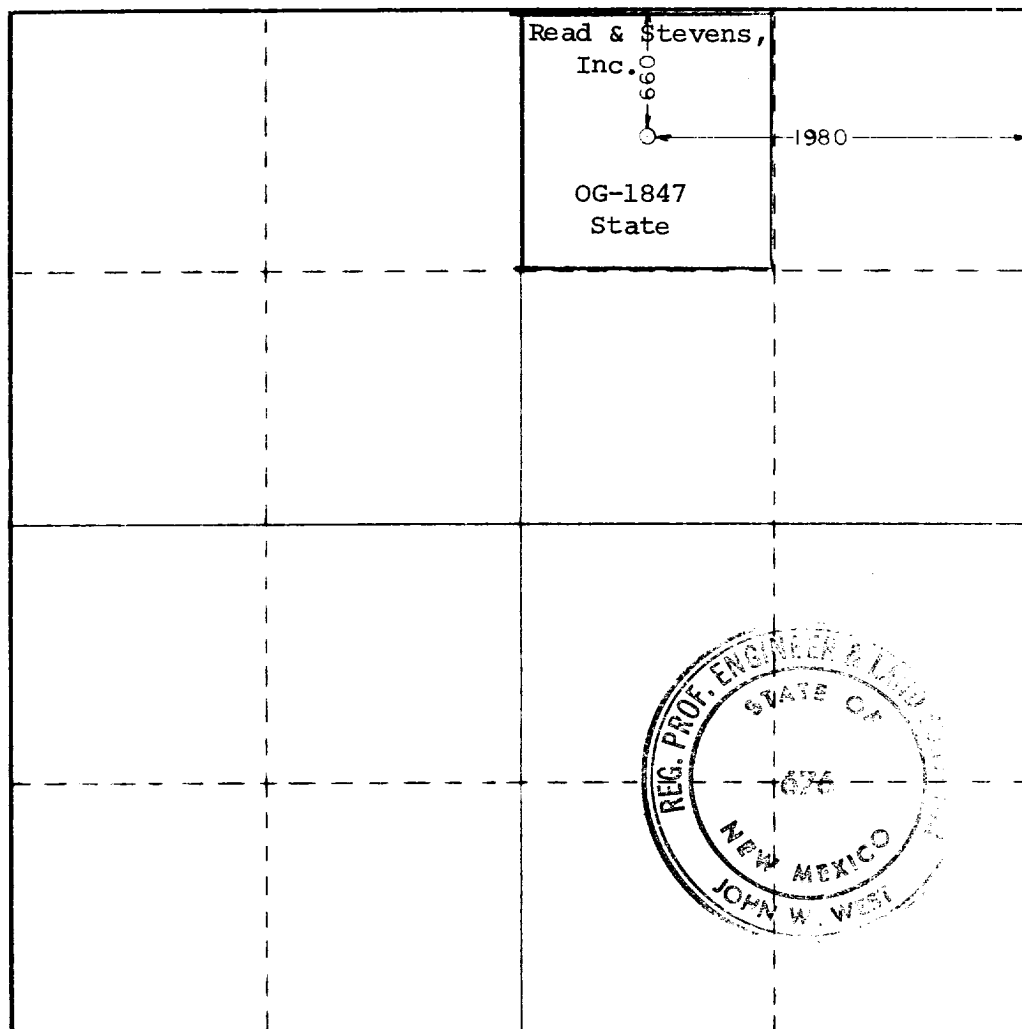
Operator <b>READ &amp; STEVENS, INC.</b>			Lease <b>STATE BG</b>		Well No. <b>3</b>
Unit Letter <b>B</b>	Section <b>14</b>	Township <b>19 South</b>	Range <b>34 East</b>	County <b>Lea</b>	
Actual Footage Location of Well:					
<b>660</b> feet from the <b>North</b> line and		<b>1980</b> feet from the <b>East</b> line			
Ground Level Elev. <b>3967.0</b>	Producing Formation <b>Queen</b>	Pool <b>Quail Queen</b>		Dedicated Acreage: <b>40.00</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 Commission.



**CERTIFICATION**

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

*John L. Anderson, Jr.*  
Name  
**John L. Anderson, Jr.**

Position  
**Agent**

Company  
**Read & Stevens, Inc.**

Date  
**March 22, 1977**

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

Date Surveyed  
**March 19, 1977**

Registered Professional Engineer and/or Land Surveyor

*John W. West*  
Certificate No. **676**



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CL. COUNCIL ON THE COM. /  
Robby, R. M.

## WELL PROGNOSIS

OPERATOR: Read & Stevens, Inc.

WELL: #3 State BG

FIELD & DEPTH: Quail Queen - 5,600'

LOCATION: 660' FNL & 1980' FEL Sec. 14, T-19-S, R-34-E, Lea County, New Mexico

CONTRACTOR: Cactus Drilling Company - Rig #66

ELEVATION: 3967 GR - 3977' RKB

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### ESTIMATED FORMATION TOPS

T/ Anhydrite	1812' (+2165)
T/Salt	1944' (+2033)
B/Salt	3284' (+693)
T/Yates	3566' (+411)
T/Queen sand	4792' (-815)
T/Penrose sands	5080' (-1103)
B/Penrose sands	5447' (-1470)

### CASING PROGRAM

<u>Hole Size</u>	<u>Casing Size</u>	<u>Wt. Per Foot</u>	<u>Setting Depth</u>	<u>Cement</u>
12 1/4"	8 5/8"	24#	400'	150 sx. Circulated
7 7/8"	4 1/2"	10.5#	5,600'	785 sx. (2 stages)

### MUD PROGRAM

0'-400'	Spud mud with gel/lime slurry. Mud wt. 3.6#-9.0#, Vis. 34-36, WL no control. If circulation is lost and cannot be regained, dry drill to 400' and set surface casing.
400'-4,600'	Clear water and native mud. Mud wt. 8.4#, Vis. 28, WL no control.
4,600'-5,600'	Salt gel mud system. Mud wt. 9.5#-10.2#, Vis. 36-38, WL 8-9.

### DRILLING AND CEMENTING PROGRAM

1. Drill 12 1/4" hole to 400' and set 8 5/8", 24#, S.T. & C. casing at 400' cemented with 150 sx. Class C cement with 2% CaCl<sub>2</sub> and 8# salt per sx. Cement will be circulated.
2. Drill 7 7/8" hole 5,600' and, if production is indicated, set 4 1/2" casing to total depth. Run DV tool at 2000'. Cement first stage from total depth to 3200' with 440 sx. Class C pozmix with 1/4# floreal and 6# salt per sx. with .5 of 1% CFR-2. Cement second stage from 2000' to 400' with 345 sx. Halliburton lite with 1/4# floreal and 10# salt per sx.

### EVALUATION PROGRAM

Start salt gel mud system at 4600' for increased sample quality and in preparation for coring operations. Cut 60' core of Queen sand at tentative coring point of 4795'. Cut second 60' core at tentative coring point of 5080'. Cut third 60' core at tentative coring point of 5140'. Drill to total depth and run logs.

### LOGGING PROGRAM

Run Schlumberger Simultaneous Gamma Ray-Caliper, Compensated Neutron Formation Density as porosity tool with Dual laterolog as Resistivity tool. Detail from 3,450' to total depth.

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OIL CONSERVATION COMM.  
HOBBS, N. M.

### BLOWOUT PREVENTER SYSTEM

Drilling rig will be equipped with a 10" Cameron Series 900, Model SS blowout preventer with double rams and rated to 3000# working pressure.

### WELL SUPERVISION

Well site supervision will be maintained from surface to total depth. Samples will be caught, washed and sacked from below surface string at 400' to total depth at 10 foot intervals. Mechanically recorded drilling time will be maintained from surface to total depth. Blowout preventer stack and casing head will be independently pressure tested before drilling into the Queen formation. A daily check of the blowout preventer system will be made from 4,600' to total depth.