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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-2001	

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. Farm or Lease Name Quail State	
2. Name of Operator Read & Stevens, Inc.		9. Well No. 4	
3. Address of Operator P.O.Box 1518, Roswell, New Mexico 88201		10. Field and Pool, or Wildcat Quail Queen	
4. Location of Well UNIT LETTER <u>P</u> LOCATED <u>660</u> FEET FROM THE <u>South</u> LINE AND <u>660</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>11</u> TWP. <u>19-S</u> RGE. <u>34-E</u> NMPM		12. County Lea	
19. Proposed Depth 6200'		19A. Formation Queen	
20. Rotary or C.T. Rotary		21. Elevations (Show whether DF, RT, etc.) 3961.1'GR.-3971'PKB	
21A. Kind & Status Plug. Bond Statewide		21B. Drilling Contractor WEK Drilling Co.	
22. Approx. Date Work will start September 21, 1979			

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
11"	8 5/8"	24#	1900'	700 sx.	circulated
7 7/8"	4 1/2"	10.5#	6200'	700 sx.	3200'

See attached well prognosis for drilling program and blowout preventer data.
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. Anderson Jr. Title Agent Date 9-14-79

(This Space for State Use)

APPROVED BY Larry Scher TITLE SUPERVISOR DISTRICT I DATE SEP 17 1979

CONDITIONS OF APPROVAL, IF ANY:

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NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-11
Supersedes O-12H
Effective 1-1-65

All distances must be from the outer boundaries of the Section

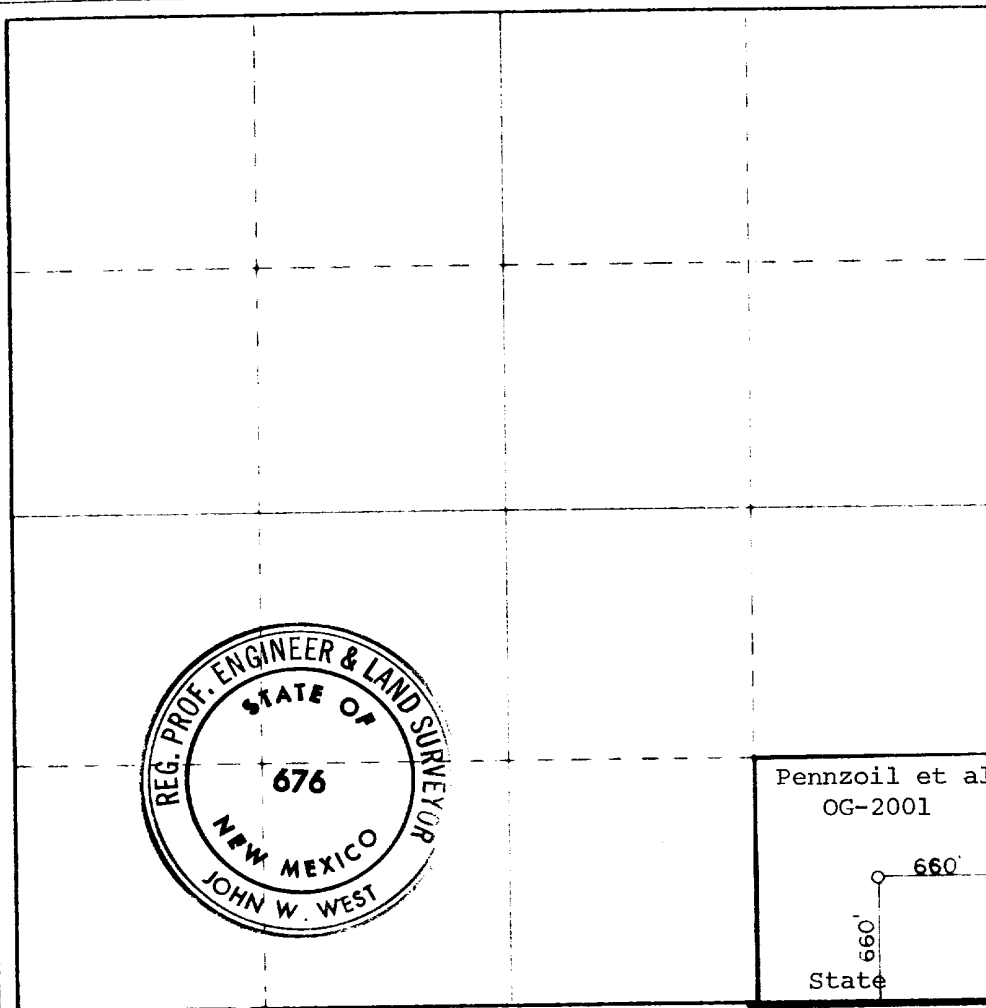
Lessee Read & Stevens, Inc.		Lease Quail State		Well No. 4
Section P	Range 11	Meridian 19 South	Block 34 East	Lea
Distance from West 660		Distance from East 660		
Distance from South 3961.1		Distance from North 40.00		
Section Queen		Block Quail Queen		

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by 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.
John L. Anderson, Jr.
Agent

Agent

Read & Stevens, Inc.

9-14-79

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

September 11, 1979

John W. West

Certificate No. John W. West 676
Ronald J. Eidson 3239

330 660 1320 1650 1980 2310 2640 2000 1500 1000 500

WELL PROGNOSIS

OPERATOR: READ & STEVENS, INC.
WELL: #4 Quail State
FIELD & DEPTH: Quail Queen-6200'
LOCATION: 660' FSL & 660' FEL Sec. 11, T-19-S, R-34-E, Lea County, N.M.
CONTRACTOR: WEK Drilling Company-Rig #3
ELEVATION: 3961.1' GR-3971' RKB

ESTIMATED FORMATION TOPS

T/Anhydrite	1850', (+2121)
T/Salt	1970', (+2001)
B/Salt	3300', (+671)
T/Yates	3585', (+386)
T/Queen Sand	4750', (-779)
T/Penrose Sands	5020', (-1049)

CASING PROGRAM

<u>Hole Size</u>	<u>Casing Size</u>	<u>Wt. Per Foot</u>	<u>Setting Depth</u>	<u>Cement</u>
11"	8 5/8"	24#	1900'	700 sx. ci.
7 7/8"	4 1/2"	10.5#	6200'	700 sx.

MUD PROGRAM

0' - 1,850' Spud mud with gel/lime slurry. Mud wt. 9.0#-9.5#, Vis. 32-34, WL no control.

1,850' -4,600' Clear water and native mud. Mud wt. 10.0#-10.2#, Vis. 28-32, WL no control.

4,600' - 6,200' Salt gel mud system. Mud wt. 9.5#-10.2#, Vis. 36-38, WL 20.

DRILLING AND CEMENTING PROGRAM

1. Drill 11" hole to 1850' and set 8 5/8", 24#, S.T. & C. casing at 1,900' cemented with 700 sx. Class C. Cement with 2% CaCl_2 and 8# salt per sx. Cement will be circulated.
2. Drill 7 7/8" hole to 6,200' and, if production is indicated, set 4 1/2" casing to total depth. Cement from total depth to 3,200' with 700 sx. Class C pozmix with 1/4# floreal and 6# salt per sx. with .5 of 1% CFR-2.

EVALUATION PROGRAM

Start salt gel mud system at 4,600' for increased sample quality. Drill to total depth and run logs. Take selected sidewall cores for additional formation evaluation.

LOGGING PROGRAM

Run Simultaneous Gamma Ray-Caliper, Compensated Neutron Formation Density as porosity tool with Dual laterolog as Resistivity tool. Detail from 3,400' to total depth.

BLOWOUT PREVENTER SYSTEM

Drilling rig will be equipped with a 10" Shaffer Type E Series 900, blowout preventer with double rams and rated to 3,000# working pressure with Payne dual control 3,000# closing unit and Payne dual control 300# accumulator.

WELL SUPERVISION

Well site supervision will be maintained from surface to total depth. Samples will be caught, washed and sacked from below surface string to 1,850' to total depth at 10' 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.

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