

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

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease
STATE FEE

5. State Oil & Gas Lease No.
OG-2001

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
DRILL DEEPEN PLUG BACK

b. Type of Well
OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. Name of Operator
Read & Stevens, Inc.

3. Address of Operator
P.O. Box 2126, Roswell, New Mexico 88201

4. Location of Well
UNIT LETTER **J** LOCATED **1980** FEET FROM THE **South** LINE
AND **1980** FEET FROM THE **East** LINE OF SEC. **11** TWP. **19-S** RGE. **34-E** NMPM

7. Unit Agreement Name

8. Farm or Lease Name
Quail State

9. Well No.
2

10. Field and Pool, or Wildcat
Quail Queen

12. County
Lea

19. Proposed Depth
5,600'

19A. Formation
Queen

20. Rotary or C.T.
Rotary

21. Elevations (Show whether DF, RT, etc.)
3970' GR - 3980' RKB

21A. Kind & Status Plug. Bond
Statewide

21B. Drilling Contractor
WEK Drilling Co.

22. Approx. Date Work will start
March 6, 1978

23. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
18"	13 3/8"	48#	30'	10 sx.	Circulated
11"	8 5/8"	24#	1900'	500 sx.	Circulated
7 7/8"	4 1/2"	9.5# & 10.5#	5600'	535 sx.	

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

APPROVAL
MAY 31, 1978

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 2-28-78

(This space for State Use)
APPROVED BY John W. Runyon TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

MAR 1 1978

OIL CONSERVATION COMM.
HOBBS, N. M.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 11-65

All distances must be from the outer boundaries of the Section

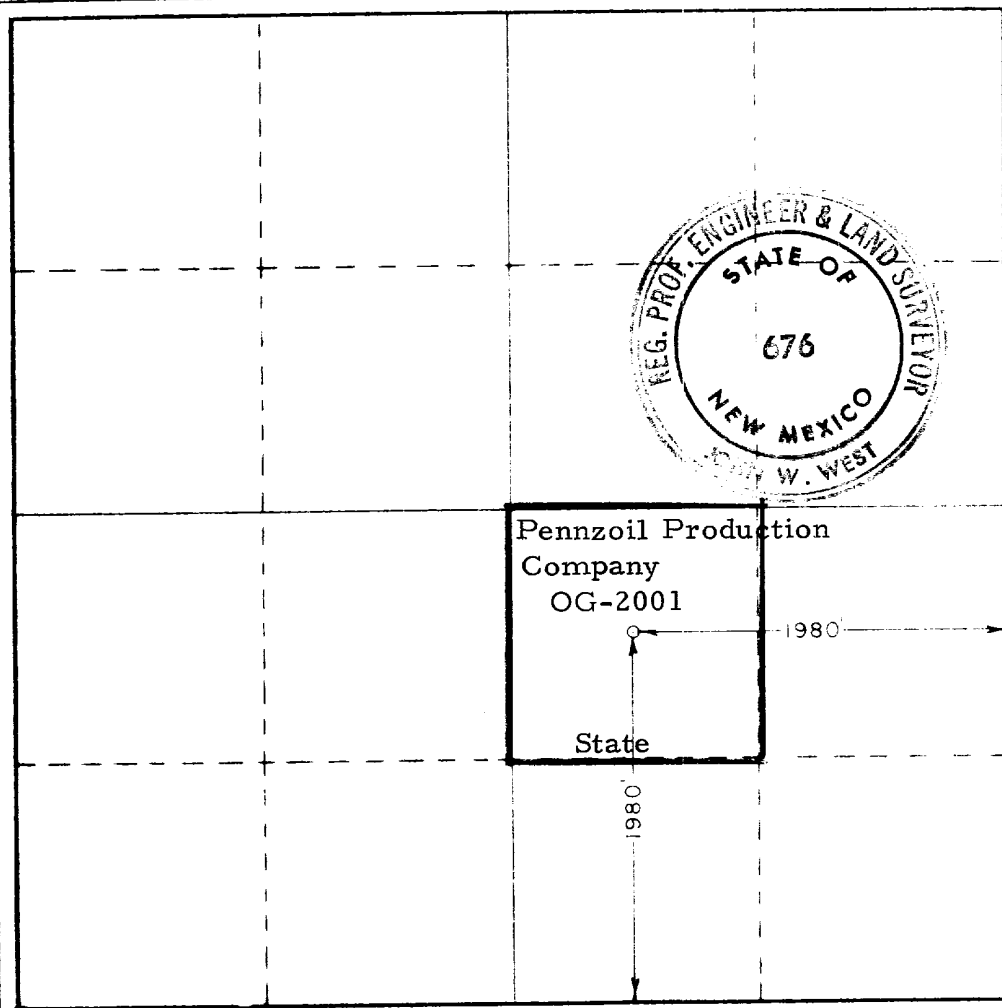
Operator Read and Stevens, Inc.		Lease Quail State		Well No. 2
Init. Letter J	Section 11	Township 19 South	Range 34 East	County Lea
Actual Footage Location of Well: 1980 feet from the South line and 1980 feet from the East line				
Ground Level Elev. 3970.0	Producing Formation Queen	Pool Quail Queen	Estimated Acreage 40.00	

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 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

Read & Stevens, Inc.

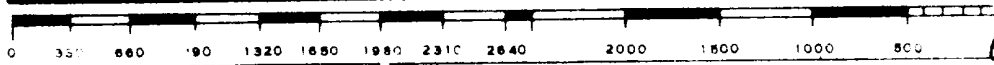
February 28, 1978

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

Jan. 14, 1978

Registered Professional Engineer and Land Surveyor

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



RECEIVED

MAR 1 1978

OIL CONSERVATION COMM.
NORMS, N. M.

WELL PROGNOSIS

OPERATOR: READ & STEVENS, INC.
WELL: #2 Quail State
FIELD & DEPTH: Quail Queen - 5,600'
LOCATION: 1980' FSL & 1980' FEL Sec. 11, T-19-S, R-34-E, Lea County, New Mexico
CONTRACTOR: WEK Drilling Company - Rig #3
ELEVATION: 3970' GR - 3980' RKB

ESTIMATED FORMATION TOPS

T/ Anhydrite	1832' (+2148)
T/ Salt	1959' (+2021)
B/ Salt	3298' (+ 682)
T/ Yates	3560' (+ 420)
T/ Queen Sand	4730' (- 750)
T/ Penrose sands	5012' (-1032)

CASING PROGRAM

<u>Hole Size</u>	<u>Casing Size</u>	<u>Wt. Per Foot</u>	<u>Setting Depth</u>	<u>Cement</u>
18"	13 3/8"	48#	30'	10 sx. Circulated
11"	8 5/8"	24#	1,900'	500 sx. Circulated
7 7/8"	4 1/2"	9.5# & 10.5#	5,600'	535 sx.

MUD PROGRAM

0'-1,900' Spud mud with gel/lime slurry. Mud wt. 9.0#-9.5#, Vis. 32-34, WL no control.

1,900'-4,600' Clear water and native mud. Mud wt. 10.0#-10.2#, Vis. 28.32 WL no control.

4,600'-5,600' Salt gel mud system. Mud wt. 9.5#-10.2#, Vis. 36-38, WL 10-20.

DRILLING AND CEMENTING PROGRAM

1. Drill 18" hole to 30' and set 13 3/8", 48# conductor casing at 30' cemented to surface with ready mix.
2. Drill 11" hole to 1,900' and set 8 5/8", 24#, S.T. & C. casing at 1,900' cemented with 500 sx. Class C. cement with 2% CaCl₂ and 8# salt per sx. Cement will be circulated.
3. Drill 7 7/8" hole to 5,600' and, if production is indicated, set 4 1/2" casing to total depth. Cement from total depth to 3,200' with 550 sx. Class C pozmix with 1/4# floseal 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 and in preparation for coring operations. Cut 60' core of Queen sand at tentative coring point of 4,730'. Cut second 60' core at tentative coring point of 5,012'. Cut third 60' core at tentative coring point of 5,072'. Cut additional cores as necessary. Drill to total depth and run logs.

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 at 1,900' 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.