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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 b. Type of Well 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"/>		DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>	
2. Name of Operator Read & Stevens, Inc.		7. Unit Agreement Name -----	
3. Address of Operator P. O. Box 2126, Roswell, New Mexico 88201		8. Farm or Lease Name Quail State	
4. Location of Well UNIT LETTER O LOCATED 660 FEET FROM THE south LINE AND 1980 FEET FROM THE east LINE OF SEC. 11 TWP. 19-S RGE. 34-E NMPM		9. Well No. 1	
		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.) 3963.77 GR - 3974' RKB		21A. Kind & Status Plug. Bond Statewide	
		21B. Drilling Contractor Cactus Drilling Co.	
		22. Approx. Date Work will start May 25, 1977	

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	1100 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.

APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED,

EXPIRES 8 16 77

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 Agent Date May 11, 1977
(This space for State Use)

APPROVED BY [Signature] TITLE SUPERVISOR DISTRICT 1 DATE MAY 16 1977
CONDITIONS OF APPROVAL, IF ANY:

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MAY 13 1957
U.S. HOUSE OF REPRESENTATIVES
COMM. ON LABOR & HUMAN RESOURCES

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PL

Form 1-1-1
Supersedes L-128
Effective 1-1-68

All distances must be from the outer boundaries of the Section

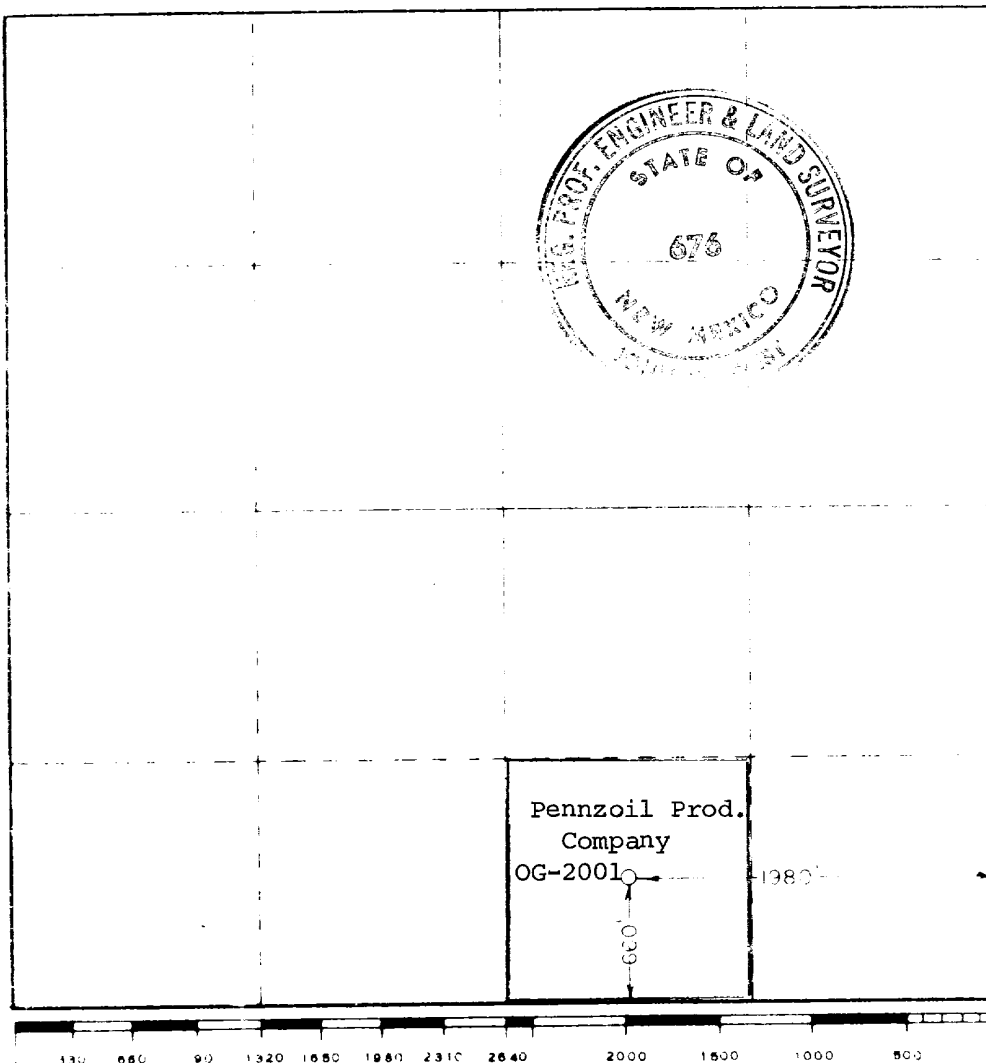
READ & STEVENS, INC.			Lease			QUAIL STATE			Area 1					
O			11			19 North			34 East			Lea		
660			South			1980			East					
Well Level Elev			For Locating Production			Foot			Quail Queen			40.00		
3963.77			Queen											

- 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.

Joe Wigley
Agent

Read & Stevens, Inc.

May 11, 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.

March 19, 77

Registered Professional Land Surveyor

John W. West
676

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MAY 13 1977
AL CONSERVATION COMM.
HOBBES, R. W.

WELL PROGNOSIS

OPERATOR: Read & Stevens, Inc.
WELL: #1 Quail State
FIELD & DEPTH: Quail Queen - 5,600'
LOCATION: 660' FSL & 1980' FEL Sec. 11, T-19-S, R-34-E, Lea County, New Mexico
CONTRACTOR: Cactus Drilling Company - Rig #66
ELEVATION: 3964' GR - 3974" RKB

ESTIMATED FORMATION TOPS

T/ Anhydrite	1784' (+2190)
T/ Salt	1916' (+2058)
B/ Salt	3246' (+718)
T/ Yates	3538' (+436)
T/ Queen Sand	4764' (-790)
T/ Penrose sands	5052' (-1078)
B/ Penrose sands	5419' (-1445)

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'	1100 sx. (2 stages)

MUD PROGRAM

0'-400' Spud mud with gel/lime slurry. Mud wt. 8.6#-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% CaCl₂ 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 550 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 550 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 4764'. Cut second 60' core at tentative coring point of 5052'. Cut third 60' core at tentative coring point of 5112'. Cut additional cores as necessary. 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 3,400' to total depth.

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WOBBS, 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.

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WASH. D. C.