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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.
OG-4886

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 Wainoco State	
c. Name of Operator Read & Stevens, Inc.		9. Well No. 3	
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>A</u> LOCATED <u>990</u> FEET FROM THE <u>North</u> LINE AND <u>990</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>11</u> TWP. <u>19-S</u> RGE. <u>34-E</u> N.M.P.M.		12. County Lea	
21. Elevations (Show whether DR, RL, etc.) 3968.8 GR - 3980.8 RKB		20. Rotary or C.T. Rotary	
21A. Rod & Cement Plug, Bond Statewide		20. Rotary or C.T. Rotary	
21B. Drilling Contractor Kenai Drilling of Texas		22. Approx. Date Work will start April 15, 1980	

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#	1850'	575 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.

Casinghead gas acreage is not dedicated.

June 14, 1980

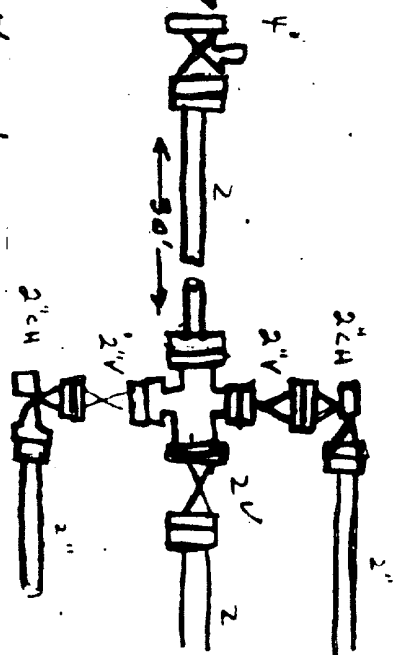
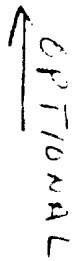
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE, GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed Shari Hamilton Title Authorized Agent Date 3-12-80

APPROVED BY John W. Runyan TITLE Commissioner DATE 3-12-80
CONDITIONS OF APPROVAL, IF ANY:

FLOW LINE WILL HAVE TO BE
MADE TO FIT UNDER
CURBWAY.



2" 1500
4" 900

WELL PROGNOSIS

OPERATOR: READ & STEVENS, INC.
WELL: #3 Wainoco State
FIELD & DEPTH: Quail Queen - 6200'
LOCATION: 990' FNL & 990' FEL Sec. 11, T-19-S, R-34-E, Lea County, New Mexico
CONTRACTOR: Kenai Drilling of Texas
ELEVATION: 3968.8' GR - 3980.8' RKB

ESTIMATED FORMATION TOPS

T/Anhydrite	1799' (+2182)
T/Salt	1917' (+2064)
B/Salt	3262' (+719)
T/Yates	3527' (+454)
T/Queen Sand	4697' (-716)
T/Penrose sands	4972' (-991)

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#	1850'	575 sx. circulated
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 1,850' cemented with 575 sx. Class C Cement with 2% CaCl₂ 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 4,500' 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 48-E Double Hydraulic Series 900 blowout preventer with closing unit and accumulator, flanged kill line and valves, flanged 4" valves and lines with double 2" choke manifold, upper and lower Kelly Cocks and drill pipe dart valve (see attached plat).

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 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.

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

Form C-122
Supersedes C-128
Effective 10/65

All distances must be from the outer boundaries of the Section

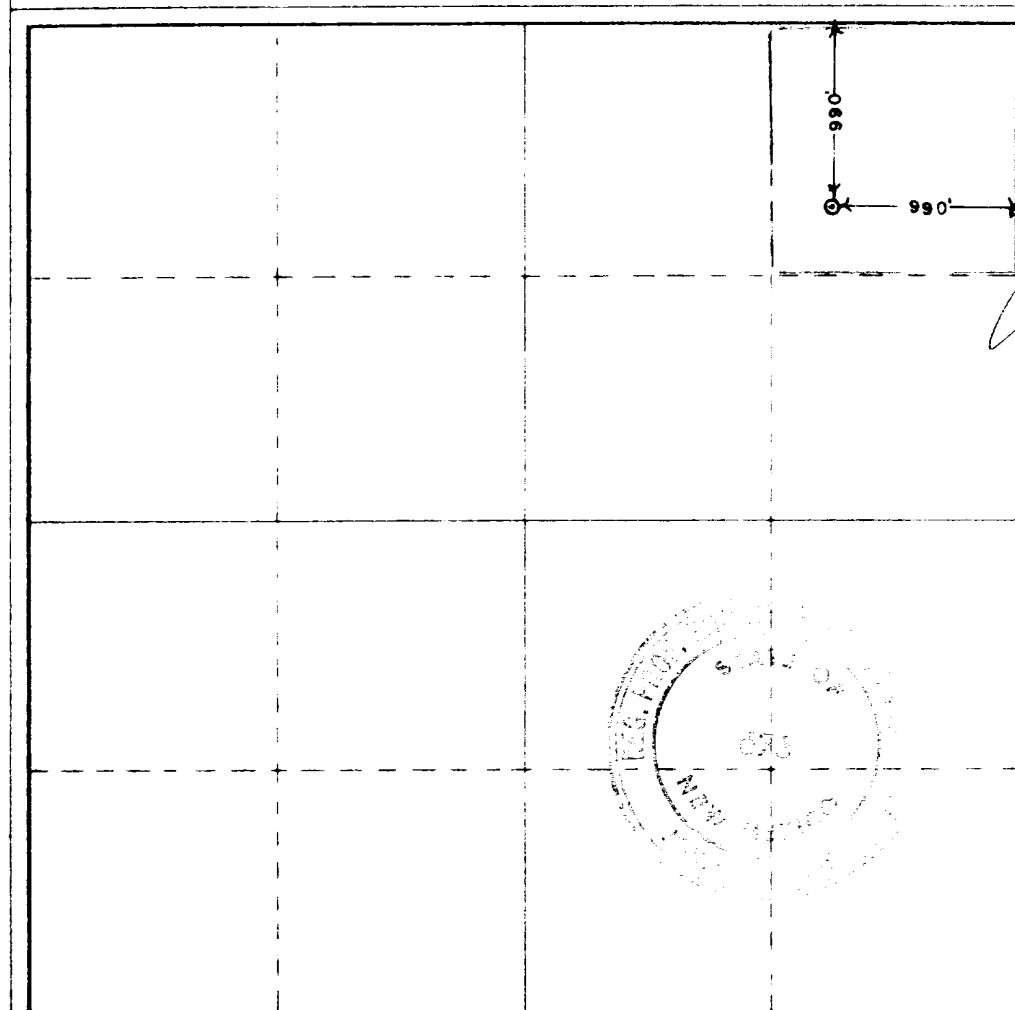
Operator Read & Stevens, Inc			Lease Wainoco State		Well No. 3
Tract Letter A	Section 11	Township 19 South	Range 34 East	County Lea	
Actual Footage Location of Well: 990 feet from the North line and 990 feet from the East line					
Ground Level Elev. 3968.3	Producing Formation Queen		Foot Quail Queen		Section and Acreage: NE 1/4 NE 1/4 40

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 W. West
John W. West

Agent

Read & Stevens

Feb. 25, 1980

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.

Feb. 23, 1980

Registered Professional Engineer
and Licensed Surveyor

Patrick A. Romero
Certificate No. **JOHN W. WEST 676**
PATRICK A. ROMERO 6665
Ronald J. Eidson 3239

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

OIL CONSERVATION DIV.

FEB 27 '80

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