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RECEIVED
NEW MEXICO OIL CONSERVATION COMMISSION
MAR 16 1978
O. C. C.
ARTESIA, OFFICE

30-005-60493
Form C-101
Revised 1-1-65

5A. Indicate Type of Lease STATE [X] FEE [ ]

5. State Oil & Gas Lease No. L-769

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
b. Type of Well
DRILL [X] DEEPEN [ ] PLUG BACK [ ]
OIL WELL [ ] GAS WELL [X] OTHER SINGLE ZONE [X] MULTIPLE ZONE [ ]

7. Unit Agreement Name: Calumet Ranch

8. Farm or Lease Name: Calumet Ranch Unit

2. Name of Operator: Read & Stevens, Inc.

9. Well No.: 1

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

10. Field and Pool, or Wildcat: Wildcat

4. Location of Well UNIT LETTER O LOCATED 660 FEET FROM THE South LINE AND 1980 FEET FROM THE East LINE OF SEC. 21 TWP. 12-S RGE. 27-E NMPM

12. County: Chaves

19. Proposed Depth	19A. Formation	20. Rotary or C.T.
6800'	Strawn	Rotary & C.T.

21. Elevations (Show whether DF, RT, etc.)	21A. Kind & Status Plug. Bond	21B. Drilling Contractor	22. Approx. Date Work will start
3600.5' GR	Statewide	Watson Drlg. Co., et al	March 18, 1978

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
15"	12 3/4"	34#	250'	100 sx.	Circulated
11"	8 5/8"	24 #	1200'	300 sx.	Circulated
7 7/8"	4 1/2"	10.5# & 11.6#	6800'	225 sx.	6000'

See attached well prognosis for proposed drilling and blowout preventer program. The gas attributed to this proration unit is uncommitted.

APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED,
EXPIRES 6/17/78

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 R. Anderson Jr. Title Agent Date March 14, 1978

(This space for State Use)

APPROVED BY Mike Williams TITLE OIL AND GAS INSPECTOR DATE MAR 17 1978

CONDITIONS OF APPROVAL, IF ANY:

NE. MEXICO OIL CONSERVATION COMMISSIC

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	Lease	Well No.
Read & Stevens, Inc.	Calumet Ranch Unit	1

Unit Letter	Section	Township	Range	County
O	21	12 South	27 East	Chaves

Actual Footage Location of Well:
660 feet from the South line and 1980 feet from the East line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3600.5	Strawn	Wildcat Straw	320.00 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

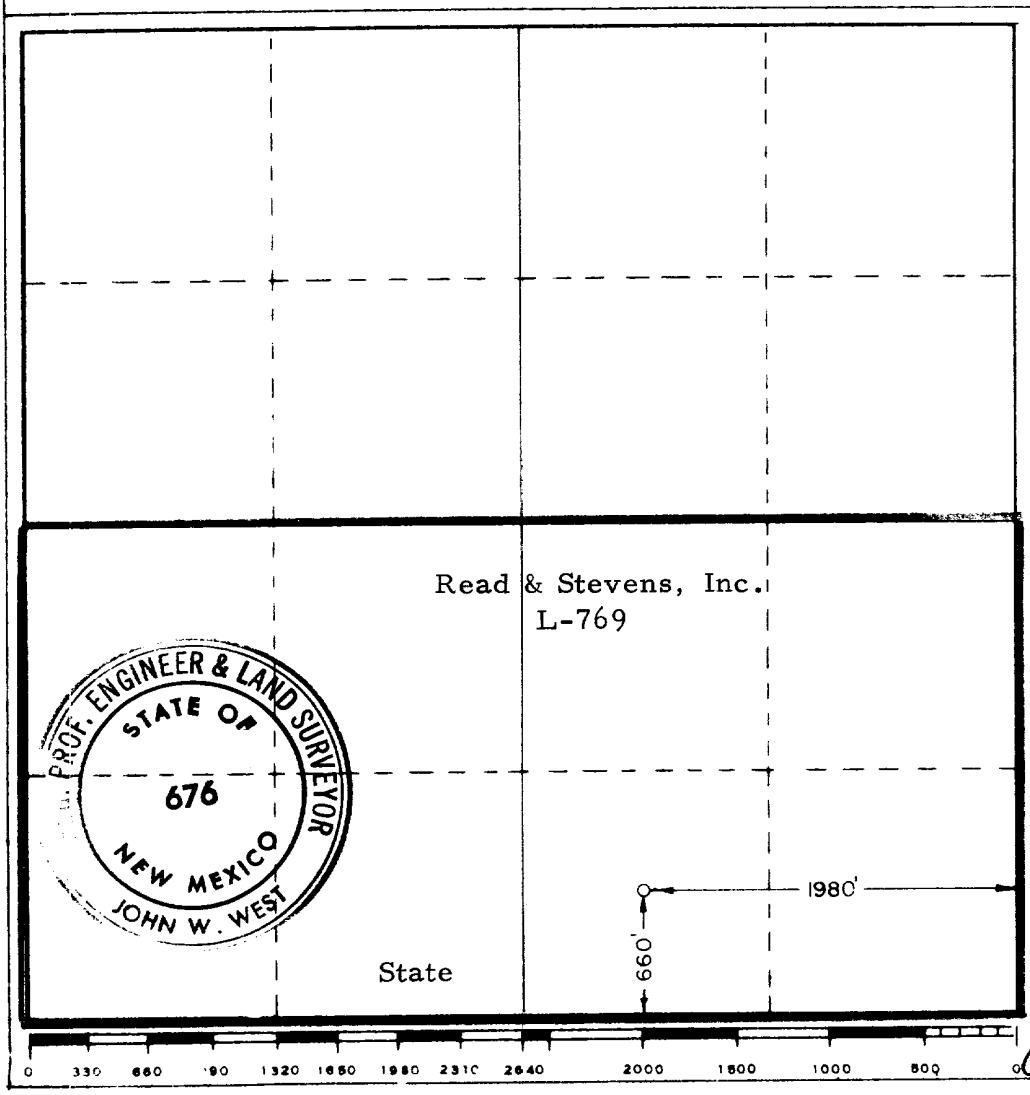
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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 14, 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.

Date Surveyed: 3/11/78

Registered Professional Engineer and/or Land Surveyor

John W. West

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

WELL PROGNOSIS

OPERATOR: Read & Stevens, Inc.
WELL: #1 Calumet Ranch Unit
FIELD & DEPTH: Wildcat - Strawn - 6800'
LOCATION: 660' FSL & 1980' FEL Sec. 21, T-12-S, R-27-E, Chaves Co., N.M.
CONTRACTOR: Watson Drilling Co. and others.
ELEVATION: 3600.5' GR, 3612' RKB (est.)

ESTIMATED FORMATION TOPS

T/San Andres	1200'	(+2412)
T/Glorieta	2550'	(+1062)
A/Abo	4750'	(-1138)
T/Wolfcamp	5700'	(-2088)
T/Pennsylvanian	6300'	(-2688)
T/Strawn	6600'	(-2988)
T/Mississippian	6800'	(-3188)

CASING PROGRAM

Hole Size	Casing Size	Wt. Per Foot	Setting Depth	Cement
15"	12 3/4"	34# Foster	250'	100 sx.-Circ.
11"	8 5/8"	24# J-55	1200'	300 sx.-Circ.
7 7/8"	4 1/2"	10.5#, 11.6# J-55	6800'	225 sx.

MUD PROGRAM

0'-250'	Fresh water w/ lime gel spud mud.
250'-1600'	Fresh water and native mud.
1600'-1950'	Drill with cable tools using fresh water for hole clean-out.
1950'-4750'	Fresh water and native mud to 4750' or top of Abo.
4750'-6400'	Fresh water mud system. Mud wt. 8.5#-9.0#, Vis. 34-36, WL 100, 3%-4% oil.
6400'-6800'	Chemical mud system. Mud wt. 9.0#-9.5#, Vis. 36-46, WL 10.

LOGGING PROGRAM

Run Schlumberger Simultaneous Gamma Ray-Caliper, Compensated Neutron Formation Density as porosity tool with Dual Induction Laterolog as Resistivity tool. Detail from base of 8 5/8" to total depth.

DRILLING PROGRAM

1. Drill 15" hole with Watson Drilling Co. to 250' and set 12 3/4", 34#, Foster type, S.T.&C. surface casing. Cemented with 100 sx. Class "C" cement with 2% $CaCl_2$. Cement will be circulated.

2. Drill 11" hole with Watson Drilling Co. to 1200' andset 8 5/8", 24#, J-55, S.T.&C. casing, cemented with 300 sx. Class "H" cement with 2% $CaCl_2$. Then drill 7 7/8" hole with Watson Drilling Co. to 1600' (400' into San Andres).

3. Move off rotary and drill 7" hole with undesignated cable tool from 1600' to 1950' to open hole test the Slaughter zone of the San Andres.

4. Move off cable tool and move-in undesignated rotary contractor. Ream 7" hole from 1600' to 1950' to 7 7/8" hole. Drill 7 7/8" hole to 6800' and if completion attempt is warranted, run 4 1/2", 10.5#, 11.6#, J-55, S.T.&C. and L.T.&C. casing to 6800', cemented with 225 sx. Class "C" cement w/ 3/4 fo 1% CFR-2 and 8# salt per sx.

BLOWOUT PREVENTER PROGRAM

Watson Drilling Co. rig will be equipped with a 12 3/4" x 10" Series 900 Shaffer 3000# blowout preventer. The cabel tool rig will use a control head. The large rotary rig will be equipped with a 10" Series 900 Shaffer LWS 3000# working press double blowout preventer with a dual control 3000# closing unit and dual control 3000# accumulator. Blowout preventer stock and casing head will be independently pressure tested before drilling into the Wolfcamp formation. A daily check of the blowout preventer system will be made from 5700' to total depth.

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 200' to total depth at 10 foot intervals. Mud logging and gas detector unit will be operative from 5700' to total depth. All significant shows of oil and /or gas will be drill stem tested. Mechanically recorded drilling time will be maintained from surface to 1600' and from 1950' to total depth.