

U. S. M. OIL CONS. COMMISSIONED STATES
P. O. BOX DEPARTMENT OF THE INTERIOR
HOBBS, NEW MEXICO 88202
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. NM-54432		
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
2. NAME OF OPERATOR Read & Stevens, Inc. 505/622-3770			7. UNIT AGREEMENT NAME		
3. ADDRESS AND TELEPHONE NO. P. O. Box 1518 Roswell, NM 88202			8. FARM OR LEASE NAME, WELL NO. Mark Federal		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1650' FSL & 930' FWL (L) At proposed prod. zone Same			9. API WELL NO. 6		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 33 miles southwest of Hobbs, NM			10. FIELD AND POOL, OR WILDCAT Quail Ridge Delaware		
10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 930'			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 3-T20S-R34E		
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1026.16'			12. COUNTY OR PARISH Lea		
16. NO. OF ACRES IN LEASE 320			13. STATE New Mexico		
19. PROPOSED DEPTH 6600'			17. NO. OF ACRES ASSIGNED TO THIS WELL 40		
20. ROTARY OR CABLE TOOLS Rotary			22. APPROX. DATE WORK WILL START* June 10, 1993		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) Capitan Controlled Water Basin 3639' GL					

PROPOSED CASING AND CEMENTING PROGRAM

Secretary's Potash

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8" J-55	54.5#	1600'	Circ 1000 sx lite + 200 "C"*
11"	8 5/8" S-80	32.0#	5000'	Circ 1100 sx*
7 7/8"	5 1/2" J-55	15.5#	6600'	Tieback w/350 sx "H"

Mud Program:

	Mud Wt.	Vis.	W/L Control
0' - 1600': Fresh water native mud:	8.4 ppg	32	No W/L control
1600' - 5000': Brine mud:	10 ppg	28-32	No W/L control
5000' - 6900': Cut brine mud w/starch:	8.8 ppg	32-40	W/L control 15cc
1600' - 6900': Gel & lost circulation material will be added as needed.			

BOP Program:

A 10" 3000 psi wp Shaffer Type E BOP will installed on the 13 3/8" casing. Casing and BOP will be tested before drilling out with 11". BOP will used as a 2000 psi wp system and will be tested daily.

* 13 3/8": Circulate 1000 sx lite, tail in with 200 sx "C" w/2% CaCl

* 8 5/8": Cement with DV tool in two stages starting at 3800':

1st stage: Lead 200 sx lite, tail in w/200 sx "C".

2nd stage: Lead 500 sx lite cement, tail w/200 sx neat. Cement to surface

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Deanna Smith Agent for: Read & Stevens, Inc. DATE March 23, 1993

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY B/ Kathy Eaton TITLE Acty State Director DATE 7-27-93

*See Instructions On Reverse Side

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

600 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Read & Stevens, Inc.			Lease Mark Federal		Well No. 6
Unit Letter L	Section 3	Township 20 South	Range 34 East	County Lea	
Actual Footage Location of Well: 1650 feet from the South line and 930 feet from the West line					
Ground level Elev. 3639	Producing Formation Delaware		Pool Quail Ridge Delaware	Dedicated Acreage: 40 Acres	

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 interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

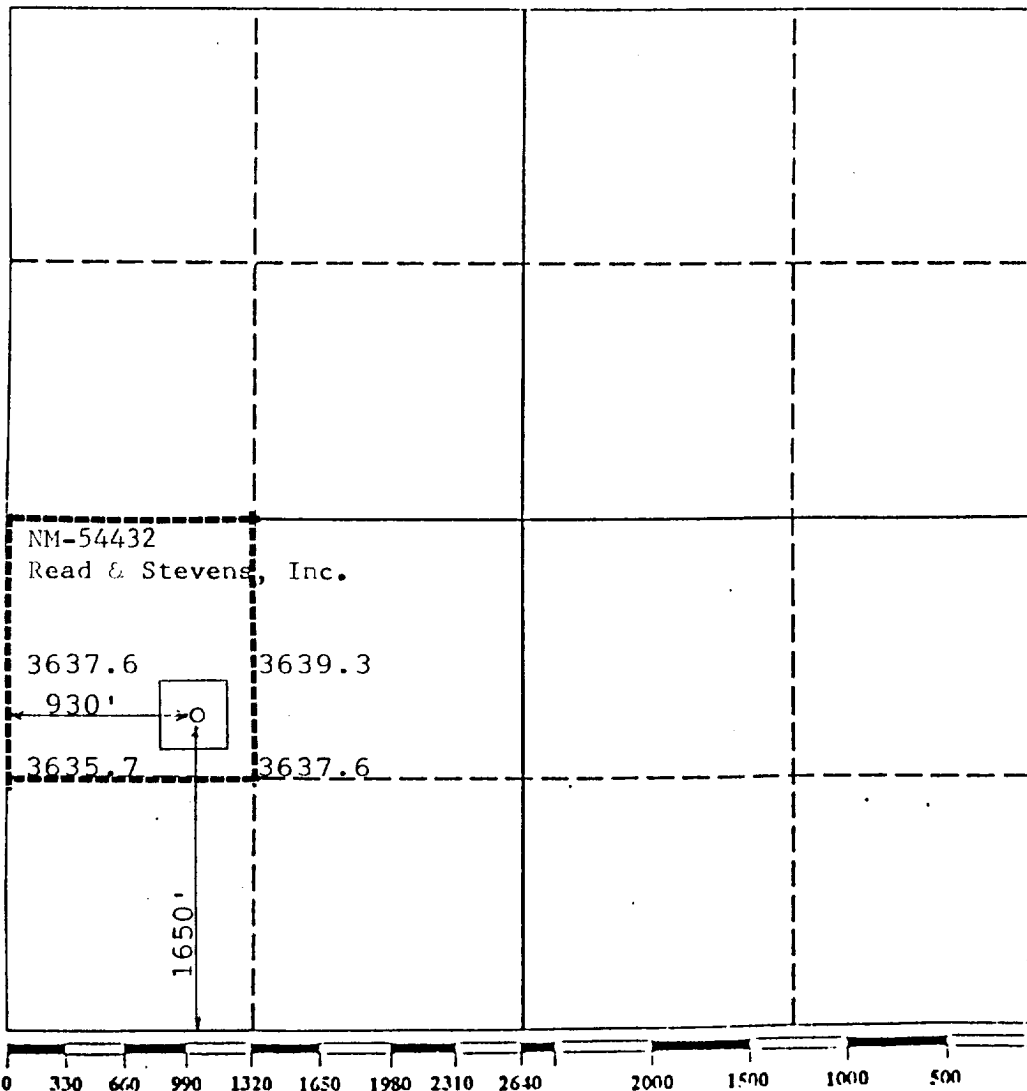
☐ Yes

☐ 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 interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature

Printed Name

George R. Smith

Position

Agent

Company

Read & Stevens, Inc.

Date

March 23, 1993

SURVEYOR CERTIFICATION

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.

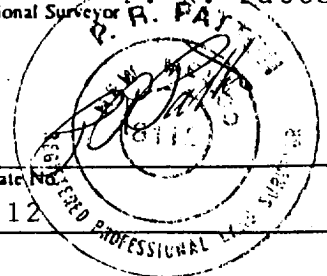
Date Surveyed

March 11, 1993

Signature & Seal of P. R. Patton
Professional Surveyor

Certificate No.

8112



RECEIVED

APR 1 1968

DEPT. OF HOUSING
OFFICE

APPLICATION FOR DRILLING

READ & STEVENS, INC.
Mark Federal, Well No. 6
1650' FSL & 930' FWL, Sec. 3-T20S-R34E
Lea County, New Mexico
Lease No.: NM-54432
(Development Well)

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Read & Stevens, Inc. submits the following items of pertinent information in accordance with BLM requirements:

1. The geologic surface formation is recent Permian with quaternary alluvium and other surficial deposits.
2. The estimated tops of geologic markers are as follows:

Rustler	1550'	Seven Rivers	3850'
Top of Salt	1770'	Delaware	5620'
Base of Salt	3150'	T.D.	6600'
Yates	3395'		
Queen	3670'		
3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: Surface water in the Triassic between 80' - 230'.

Oil: Possible in the Delaware below 5600'

Gas: None expected.
4. Proposed Casing Program: See Form 3160-3.
5. Proposed Control Equipment: See Form 3160-3 and Exhibit "E".
6. Mud Program: See Form 3160-3.
7. Auxiliary Equipment: Blowout Preventer, gas detector, Kelly cock, pit level monitor, flow sensors and stabbing valve.
8. Testing, Logging, and Coring Program:

Drill Stem Tests: None unless warranted.

Logging: T.D. to 5000':	G/R, CNL-FDC, DLL, MSFL
T.D. to surface:	G/R, neutron

Coring: None planned.
9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to increase the mud weight. Estimated BHP = 3000 psi with temperature of 110°.
10. H₂S: None expected. None in previously drilled wells.
11. Anticipated starting date: June 10, 1993.
Anticipated completion of drilling operations: Approx. 3 weeks.

RIG # 1

BLOWOUT PREVENTOR ARRANGEMENT

10" SHAFFER TYPE "E", 3000 psi WP

80 GALLON, 4 STATION KOOMEY ACCUMULATOR

3000 psi WP CHOKE MANIFOLD

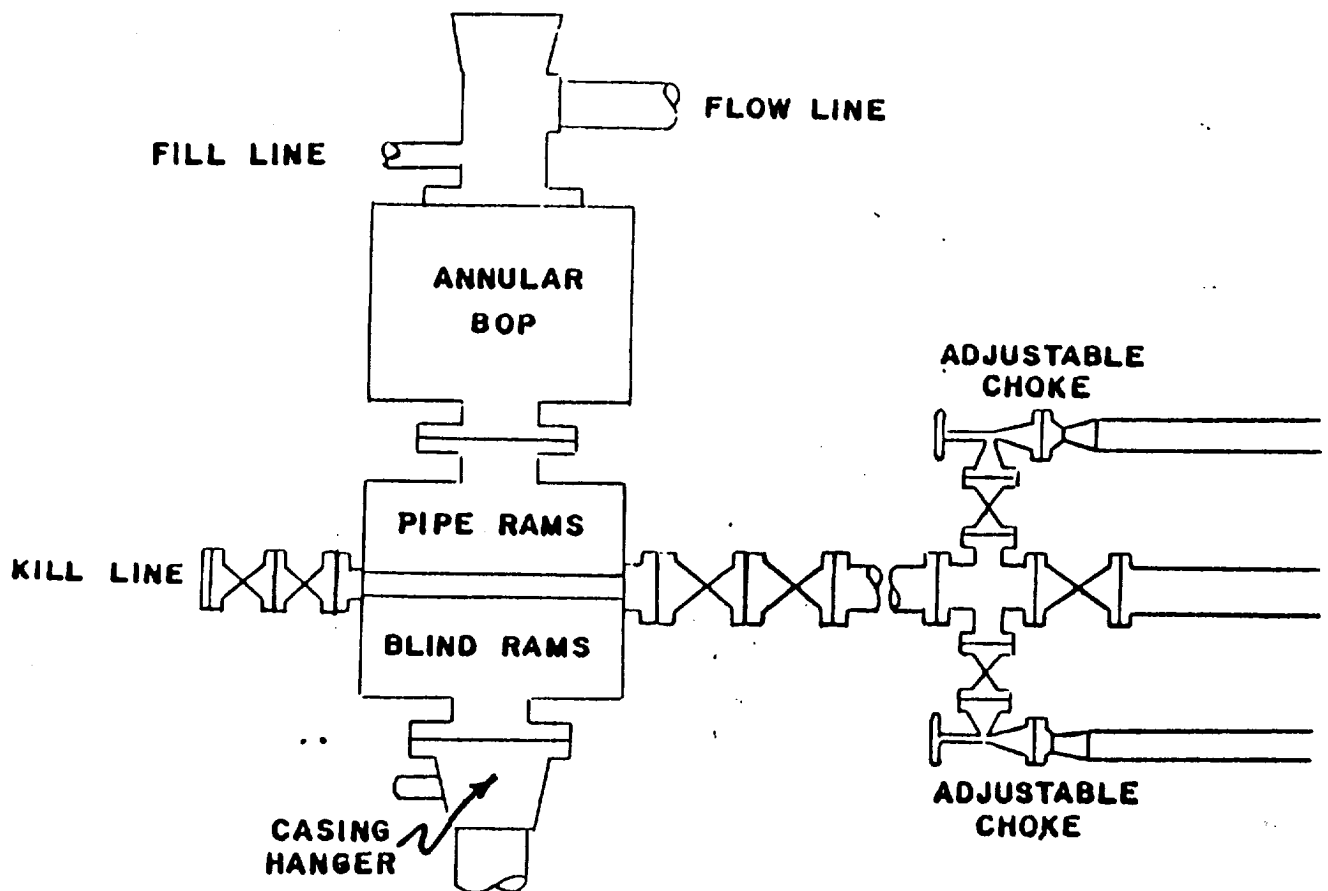


EXHIBIT "E"
READ & STEVENS, INC.
Mark Federal, Well No. 6
BOP Specifications

RECEIVED
JUN 11 1964
FBI
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