Form 9-331 C
(May 1963)

N. M. O. C. C. COPY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

Copy to SF

30-005-60317

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL
OIL WELL [ ] GAS WELL [X] OTHER SINGLE ZONE [X] 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 (Report location clearly and in accordance with any State requirements.*)
At surface
1980' FNL & 660' FEL Sec. 31, T-14-S, R-29-E, N.M.P.M.
At proposed prod. zone
Same

RECEIVED
SEP 12 1974
O. C. C.
ARTESIA, OFFICE

5. LEASE DESIGNATION AND SERIAL NO.
NM-2827

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
–

7. UNIT AGREEMENT NAME
–

8. FARM OR LEASE NAME
Rodman Federal

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 31, T-14-S, R-29-E N.M.P.M.

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
15 miles ESE of Hagerman, New Mexico

12. COUNTY OR PARISH
Chaves

13. STATE
New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
660'

16. NO. OF ACRES IN LEASE
960.00 acres

17. NO. OF ACRES ASSIGNED TO THIS WELL
320.00 acres

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
None

19. PROPOSED DEPTH
9600'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3722' GR.

22. APPROX. DATE WORK WILL START*
September 15, 1974

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	12 3/4"	34#	350'	300 sx. - Circulated
11 1/4"	8 5/8"	24#	1800' *	200 sx.

See attached Well Prognosis for proposed drilling program.

RECEIVED
AUG 28 1974
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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. 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 John L. Anderson Jr. TITLE Agent DATE 8-27-74

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

APPROVED BY TITLE DATE
CONDITIONS OF APPROVAL, IF ANY:

APPROVED
SEP 1 1974
R. L. BEEKMAN
ACTING DISTRICT ENGINEER

SUBJECT TO ATTACHED DEEP WELL CONTROL REQUIREMENTS DATED JUN 22 1973

Subject to 2300-2400 8 5/8" Csg.

THIS APPROVAL IS RESCINDED IF OPERATIONS ARE NOT COMMENCED WITHIN 3 MONTHS.
EXPIRES DEC 1 1974

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION

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.	RODMAN FEDERAL	1

Unit Letter	Section	Township	Range	County
H	31	14 SOUTH	29 EAST	CHAVES

Actual Footage Location of Well:
1980 feet from the NORTH line and 660 feet from the EAST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3722.0'	Atoka	Wildcat	320.00 Acres

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

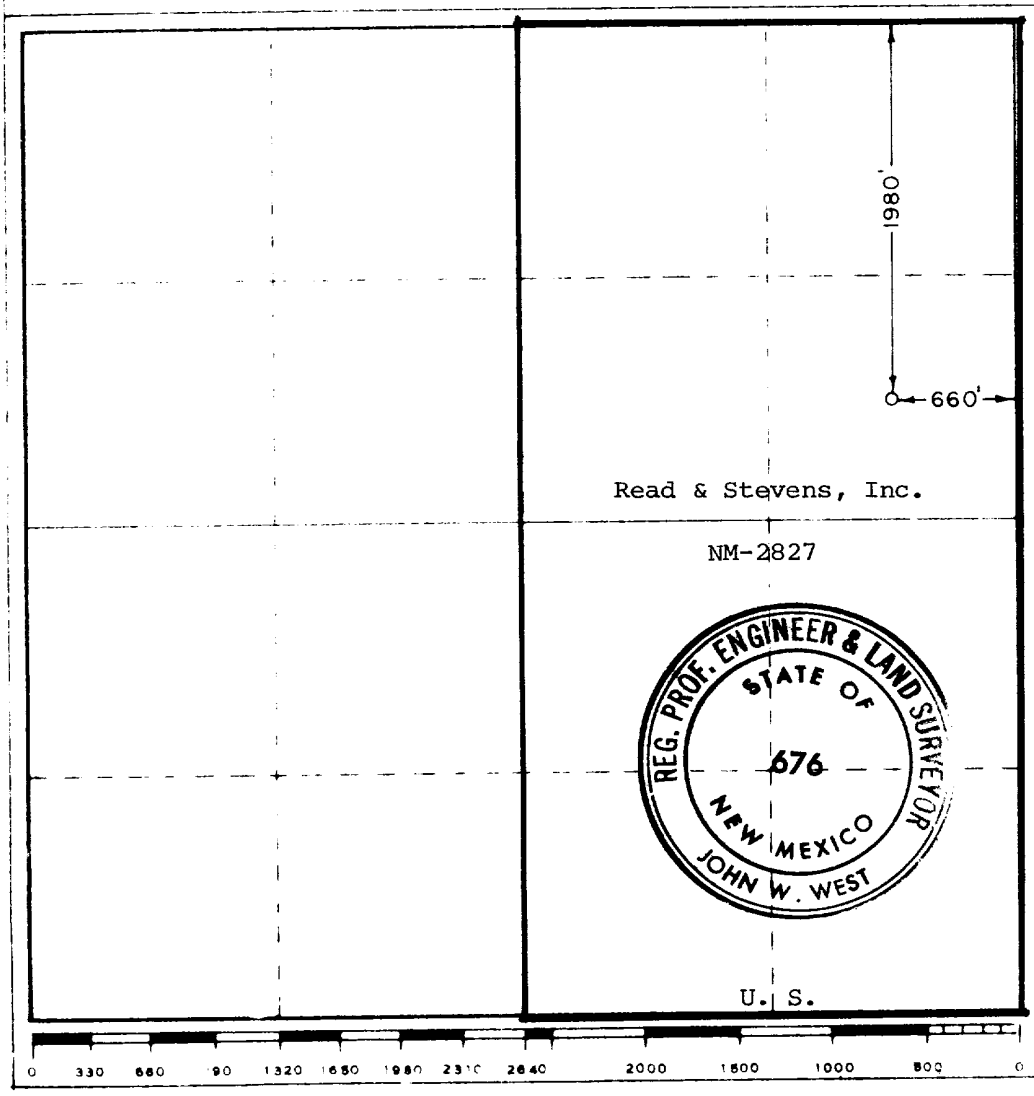
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty)

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.

Name: John L. Anderson, Jr.

Position: Agent

Company: Read & Stevens, Inc.

Date: 8-27-74

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.

RECEIVED
AUG 29 1974
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

Date Surveyed: AUGUST 22, 1974

Registered Professional Engineer and/or Land Surveyor: John W. West

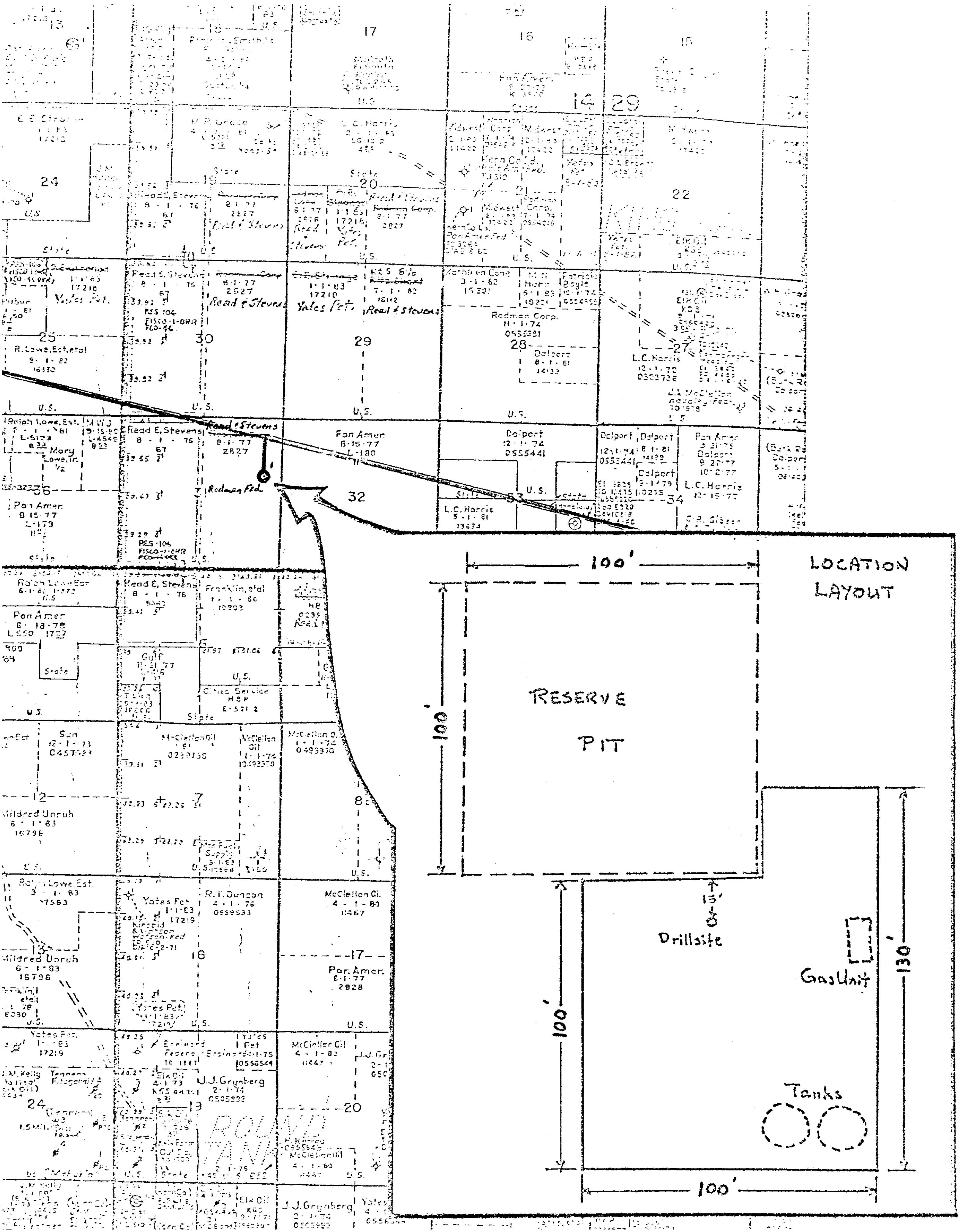
Certificate No. 676

CHECK LIST - PERSUANT TO U.S. GEOLOGICAL SURVEY INSTRUCTIONS OF APRIL 1, 1972 FOR SUBMITTAL WITH APPLICATIONS TO DRILL

1. Existing roads. Plat attached
2. Planned access roads. Plat.
3. Location of wells. Plat.
4. Lateral roads to wells locations. Plat.
5. Location of tank batteries and flowlines. Location on wellsite pad.
6. Locations and types of water supply. Trucked from Hagerman, New Mexico.
7. Methods for handling waste disposal. None-gas well.
8. Location of camps. None.
9. Location of airstrips. None.
10. Location layout. Plat attached.
11. Plans for restoration of the surface. In accordance with usual practice.
12. Other information. None.
13. Mud Program. See attached well prognosis
14. Blowout preventer system. Schaffer Type LWS, Series 900 double BOP

Before drilling into the Wolfcamp formation, the BOP and related control equipment will be pressure tested to rated working pressures by an independent service company, and all required monitering equipment will be operative. A mud logging unit with gas detection equipment will be operative from approximately 7200' to total depth.

Read & Stevens, Inc. #1 Rodman Federal
1980' FNL & 660' FEL Sec. 31, T-14-S, R-29-E
Chaves County, New Mexico

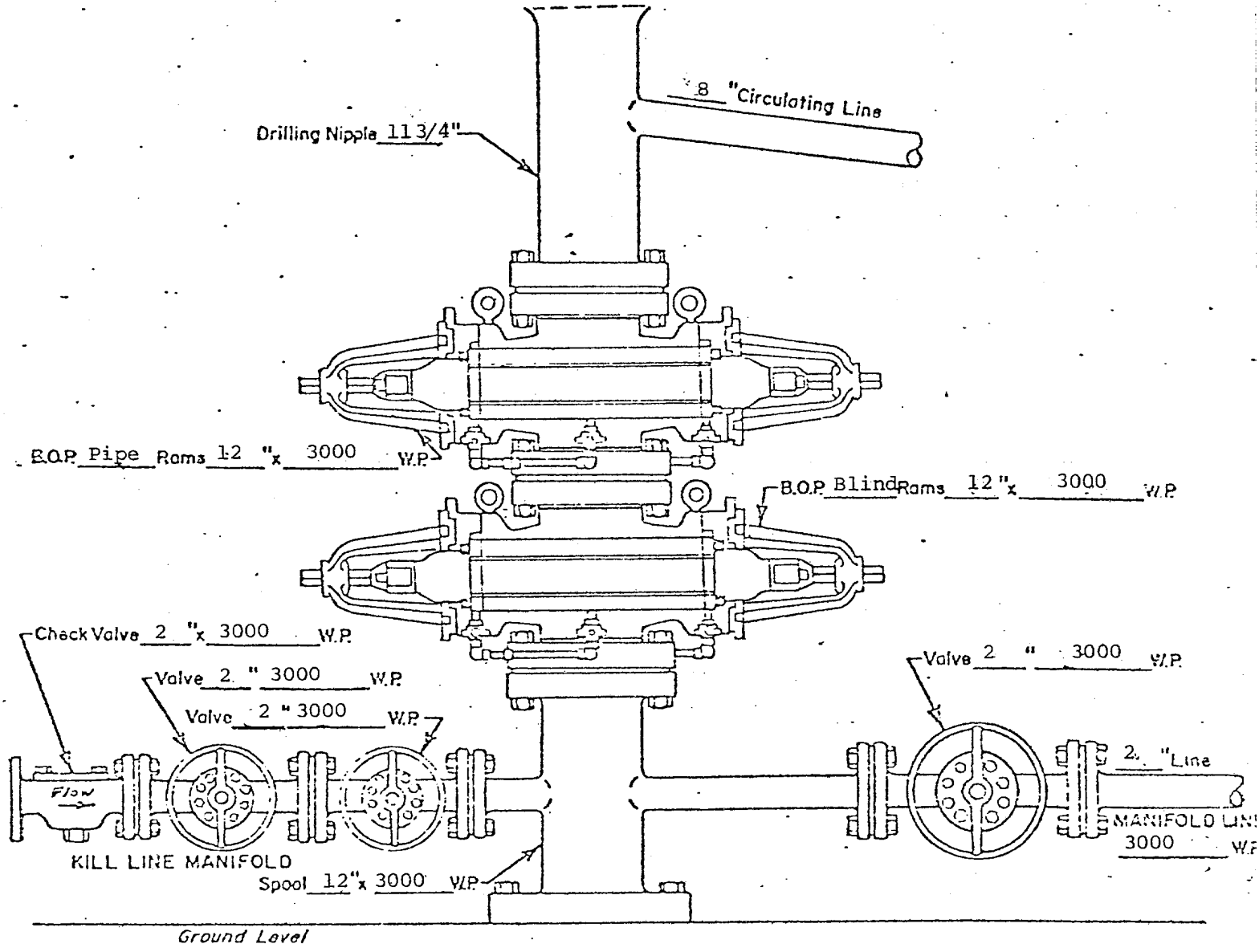


LOCATION LAYOUT
100'
RESERVE PIT
100'
15'
Drillsite
GasUnit
130'
100'
Tanks
100'
Redman Fed.
Read & Stevens
Pan Amer
Dalport
L.C. Harris
McClellan Oil
Yates Pet.
J.J. Grynberg
ROUND TANK

VELL NAME: Read & Stevens, Inc. #1 Rodman Federal

OCATION: 1980' FNL & 660' FEL Sec. 31, T-14-S, R-29-E

Chaves County, New Mexico



SURFACE

WELL HEAD B.O.P.

3000 #W.P.

☐ Manuel

☒ Hydraulic

WELL PROGNOSIS

OPERATOR: Read & Stevens, Inc.
WELL: #1 Rodman Federal
FIELD & DEPTH: Wildcat - Atoka - 9600'
LOCATION: 1980' FNL & 660' FEL Sec. 31, T-14-S, R-29-E, Chaves Co.,N.M.
CONTRACTOR: WEK Drilling Company
ELEVATION: 3722' GR., 3734' RKB

ESTIMATED FORMATION TOPS

T/San Andres	2200'	(+1534)
T/Abo	5650'	(-1960)
T/Hucco	6800'	(-3066)
T/Cisco	7575'	(-3841)
T/Strawn	8500'	(-4766)
T/Atoka	8900'	(-5166)
T/Mississippian Lime	9500'	(-5766)

CASING PROGRAM

Hole Size	Casing Size	Wt. Per Foot	Setting Depth	Cement
17 1/2"	12 3/4"	34# Foster	350'	300 sx.-Circ.
11 1/4"	8 5/8"	24# J-55	1800'	200 sx.
7 7/8"	5 1/2"	15.5#,17# &20# J-55 & N-80	9600'	250 sx.

MUD PROGRAM

0'-5100'	Clear water and native mud unless lost circulation is encountered on surface hole. If circulation is lost then dry drill to 350' and run surface casing. Then use clear water and native mud from 350' to 5100' or top of Abo.
5100'-8000'	Fresh water mud system. Mud wt. 8.5#-9.0#, Vis. 34-36, WL 100.
8000'-9600'	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 Laterolog as Resistivity tool. Detail from baseof 8 5/8" thru San Andres, and from 6500' to total depth.

DRILLING PROGRAM

1. Drill 17 1/2" hole to 350' and set 12 3/4", 34#, Foster type, S.T. & C. conductor casing. Cement with 150 sx. Class "C" w/2% $CaCl_2$, 1/4# Floseal & 5# gilsonite per sx., followed with 150 sx. Class "C" with 2% $CaCl_2$. Cement will be circulated.

2. Drill 11 1/4" hole from 350' to 1800', or 100' into San Andres. Set 1800' of 8 5/8", 24#, J-55, S.T. & C. casing, cemented with 200 sx. Class "H" cement with 2% $CaCl_2$.

3. Drill 7 7/8" hole from 1800' to 9600'. Use clear water for drilling fluid to 5100'. Use fresh water mud system from 5100' to 8000' with mud wt. 8.5# to 9.0#, Vis 34-36 and WL 100. From 8000' to 9600' use chemical mud system with mud wt. 9.0#-9.5#, Vis 36-46, WL 10. Run 9600' of 5 1/2", 15.5#, 17# and 20#, J-55 & N-80 casing, cemented with 250 sx. Class "C" cement with 3/4 of 1% CFR-2 with 8# salt per sx., preceded by 500 gallons of mud flush ahead of cement, if completion attempt is warranted.

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 350' to total depth at 10 foot intervals. Mud logging and gas detector unit will be operative from 7200' 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 total depth. Blowout preventor stack and casing head will be independently pressure tested before drilling into the Wolfcamp Formation. A daily check of the blow-out preventor system will be made from 7200' to total depth.