

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE

(Other instructions on reverse side)

OCT 22 1982

Form approved.
Budget Bureau No. 42-R1425.

30-205-61946

LEASE DESIGNATION AND SERIAL NO.

18826

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

OTHER

SINGLE ZONE ☐

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Read & Stevens, Inc. ✓

3. ADDRESS OF OPERATOR

P. O. Box 1518 Roswell, New Mexico 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirement)

At surface 1980' FNL & 1980' FEL

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE

Approximately 9 miles East of Lake Arthur, NM

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.

1980'

(Also to nearest drlg. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

N/A

16. NO. OF ACRES ASSIGNED TO THIS WELL

880

19. PROPOSED DEPTH

9100'

17. NO. OF ACRES ASSIGNED TO THIS WELL

320

20. ROTARY OR CABLE TOOLS

Rotary

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

3482' GR

22. APPROX. DATE WORK WILL START

November 20, 1982

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	54.7#	400'	400 Sx "C" circulated to surface
11"	8 5/8"	24.0#	1700'	250 Sx "H" +200 Sx "C" Circulate
7 7/8"	4 1/2"	10.5,11.6#	9100'	500 Sx "H"

Mud Program:

0' - 400' Spud mud with magcobar gel and lime. If seepage is noted, add lost circulation material. If circulation is lost, dry drill to 400' and set surface casing.

400' - 5,200' Fresh water and native mud. Mud wt. 8.4#, Vis. 30-32, WL no control.

5,200' - 8,000' Magcogel and oil type drilling fluid. Mud wt. 8.5# - 8.8#, Vis. 30-32, 3-4% oil, WL no control.

8,000' - 9,100' Fresh water, low solids spersene mud system with Magcogel and Magco CMC. Mud wt. 9.0-9.5#, Vis. 40-45, WL 10 or below, PH. 9-9.5.

BOP Program: At 1700', install and test to 5,000#, pipe rams, blind rams (middle) bag-type preventer and choke manifold. BOP accumulator volume will be sufficient to operate the bag preventer and blind rams with a snap-action through the close, open close sequence.

Gas not dedicated.

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.

Agent for:

SIGNED

Deborah Smith

TITLE

Read & Stevens, Inc.

DATE

11/21/82

(This space for Federal or State office use)

PERMIT NO.

APPROVED

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY

25 1983

JAMES A. GILLHAM
DISTRICT SUPERVISOR

TITLE

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

DATE

*See Instructions On Reverse Side

Posted to 30-205-61946-121-83

All distances must be from the outer boundaries of the Section.

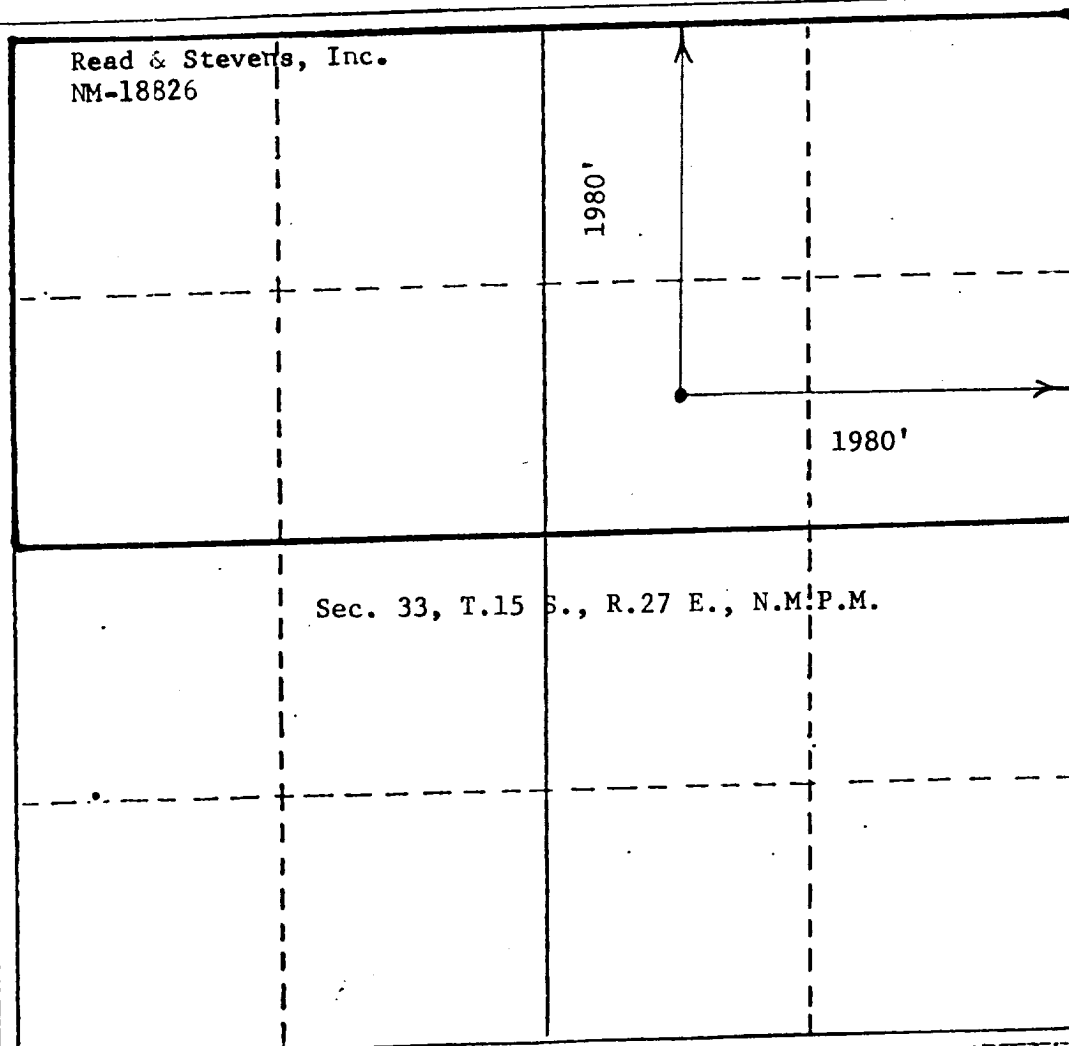
Operator Read & Stevens, Inc.			Lease Diamond Federal		Well No. #1
Unit Letter G	Section 33	Township 15 South	Range 27 East	County Chaves	
Actual Postage Location of Well: 1980 feet from the North line and 1980 feet from the East line					
Ground Level Elev. 3482	Producing Formation Atoka	Pool Undesignated Diamond Mound		Dedicated Acreage: 320 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 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 Division.



CERTIFICATION

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

George R. Smith

Name
George R. Smith

Position
Agent for:

Company
Read & Stevens, Inc.

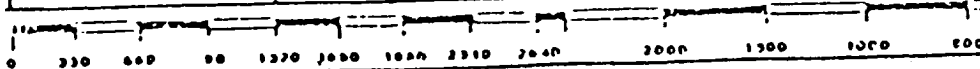
Date
October 20, 1982

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
October 20, 1982

Registered Professional Engineer and Land Surveyor
John D. Jaquess

Certificate No. **6290**



SIERRA DRILLING CO. Rig #
6L to Floor 132"
6L to Bottom or Rotary 116"

This Stack is

110.5"

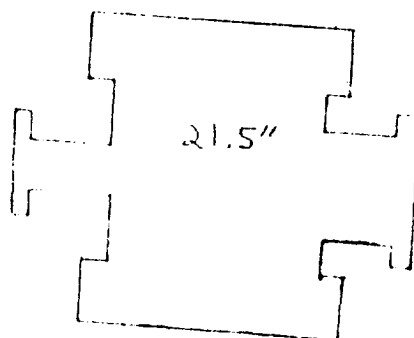
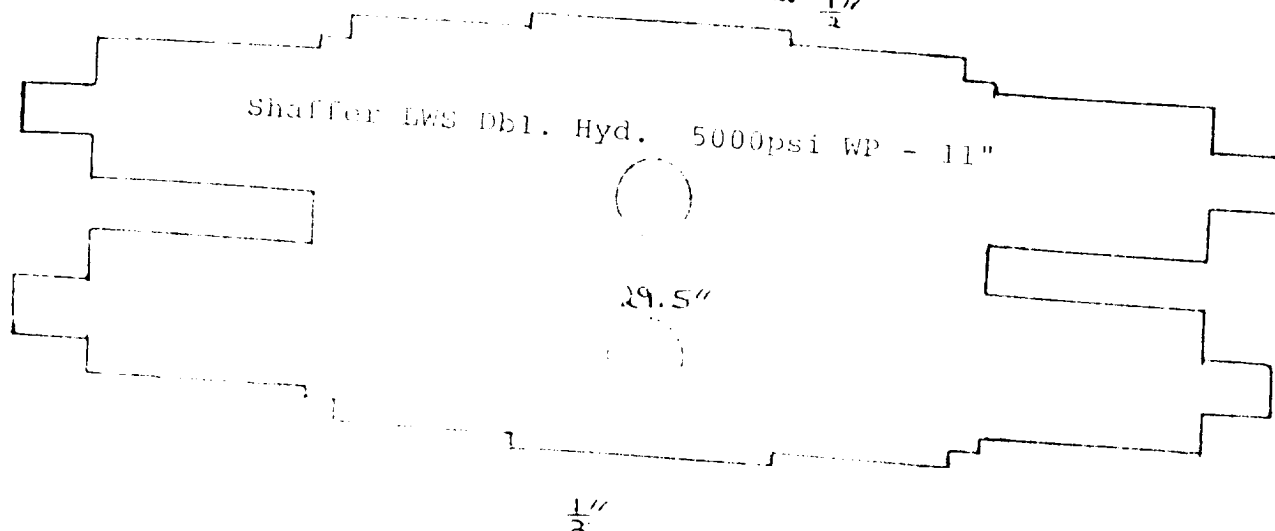
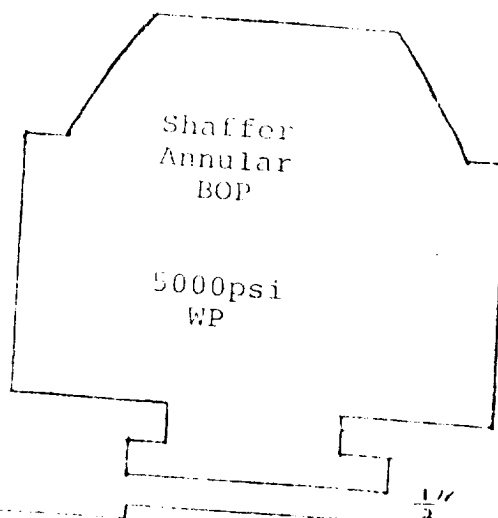
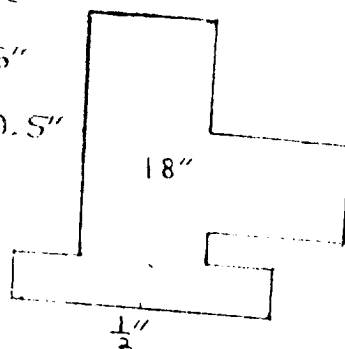


EXHIBIT "E"
READ & STEVENS, INC.
Diamond Federal, Well No. 1
BOP Specifications.

APPLICATION FOR DRILLING

READ & STEVENS, INC.
Diamond Federal, Well No. 1
1980' FNL & 1980' FEL, Sec. 33-T15S-R27E
Chaves County, New Mexico
Lease No.: NM-18826
(Development Well)

In conjunction with Form 9-331C, Application for Permit to Drill subject well, Read & Stevens, Inc. submits the following items of pertinent information in accordance with MMS 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:

Queen	878'	Canyon	7502'
San Andres	1615'	Strawn	8053'
Glorieta	2652'	Atoka	8455'
Tubb	4331'	Mississippi	8761'
Abo	5105'	Chester	8881'
Wolfcamp	6275'	Total depth	9100'
Cisco	7103'		

3. The estimated depth at which anticipated water, oil, or gas formations are expected to be encountered:

Water: Surface water at between 100' to 300'.

Oil: San Andres at approximately 1650'.

Gas: Atoka between 8600' and 8700'.

4. Proposed Casing Program: See Form 9-331C.
5. Pressure Control Equipment: See Form 9-331C, and Exhibit "E".
6. Mud Program: See Form 9-331C.
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: One possible in each of the following:

Strawn:	8053' - 8153'
Atoka:	8600' - 8700'

Logging: Gamma Ray:	Surface to T. D.
FDC/CNL:	Int. Csg. to T. D.
Dual Ind. Laterolog:	Int. Csg. to T. D.

Coring: None.

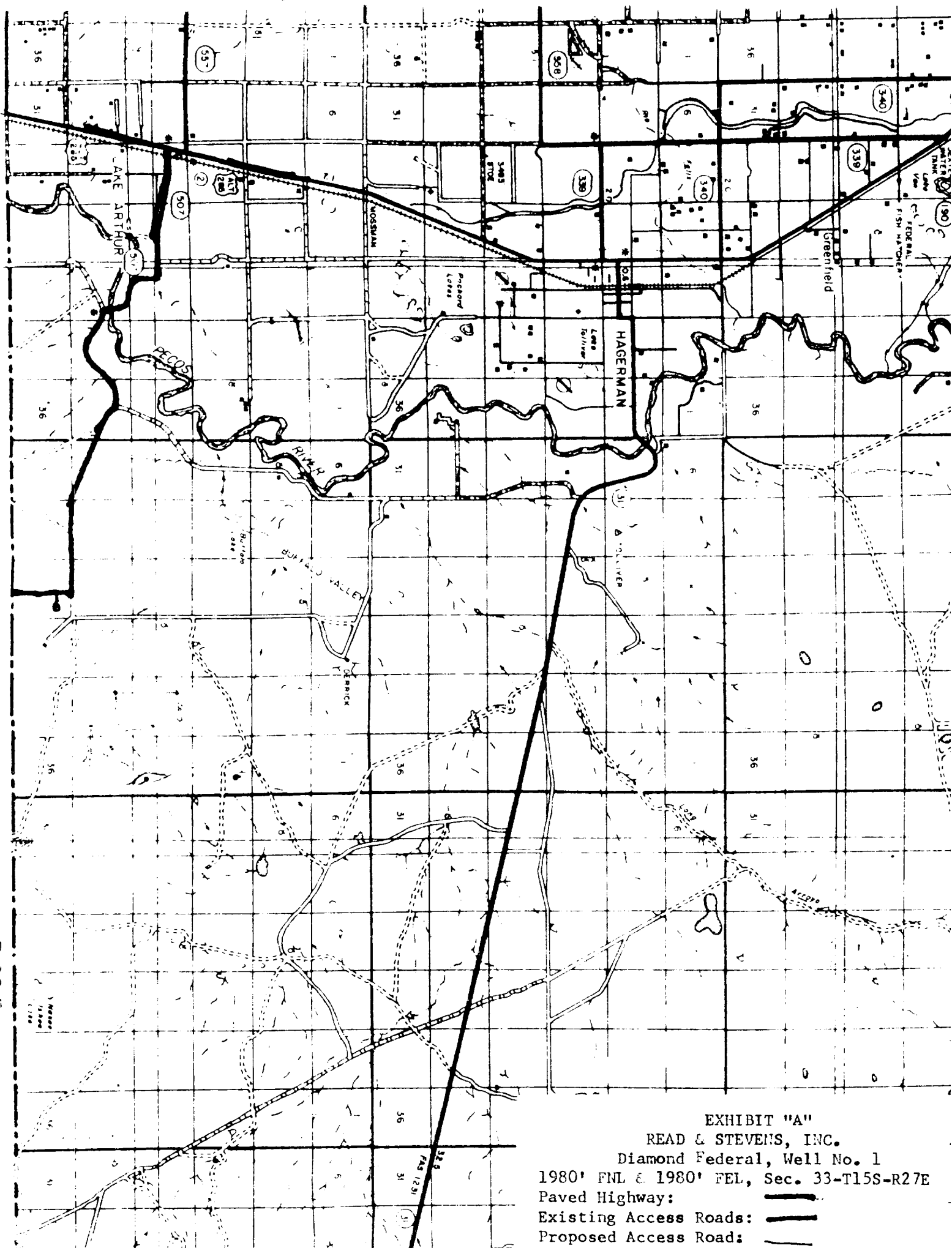
9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to increase the mud weight.
10. Anticipated starting date: November 15, 1982.
Anticipated completion of drilling operations: Approximately 35 days.

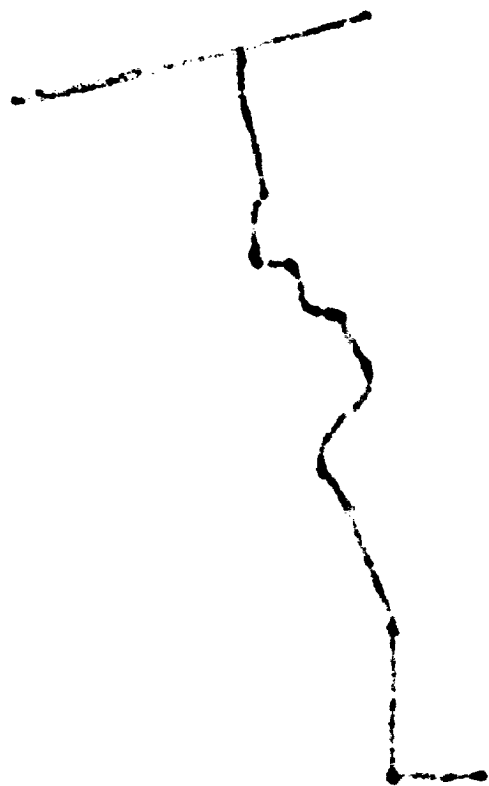
R 26 E

R 27 E

R 28 E

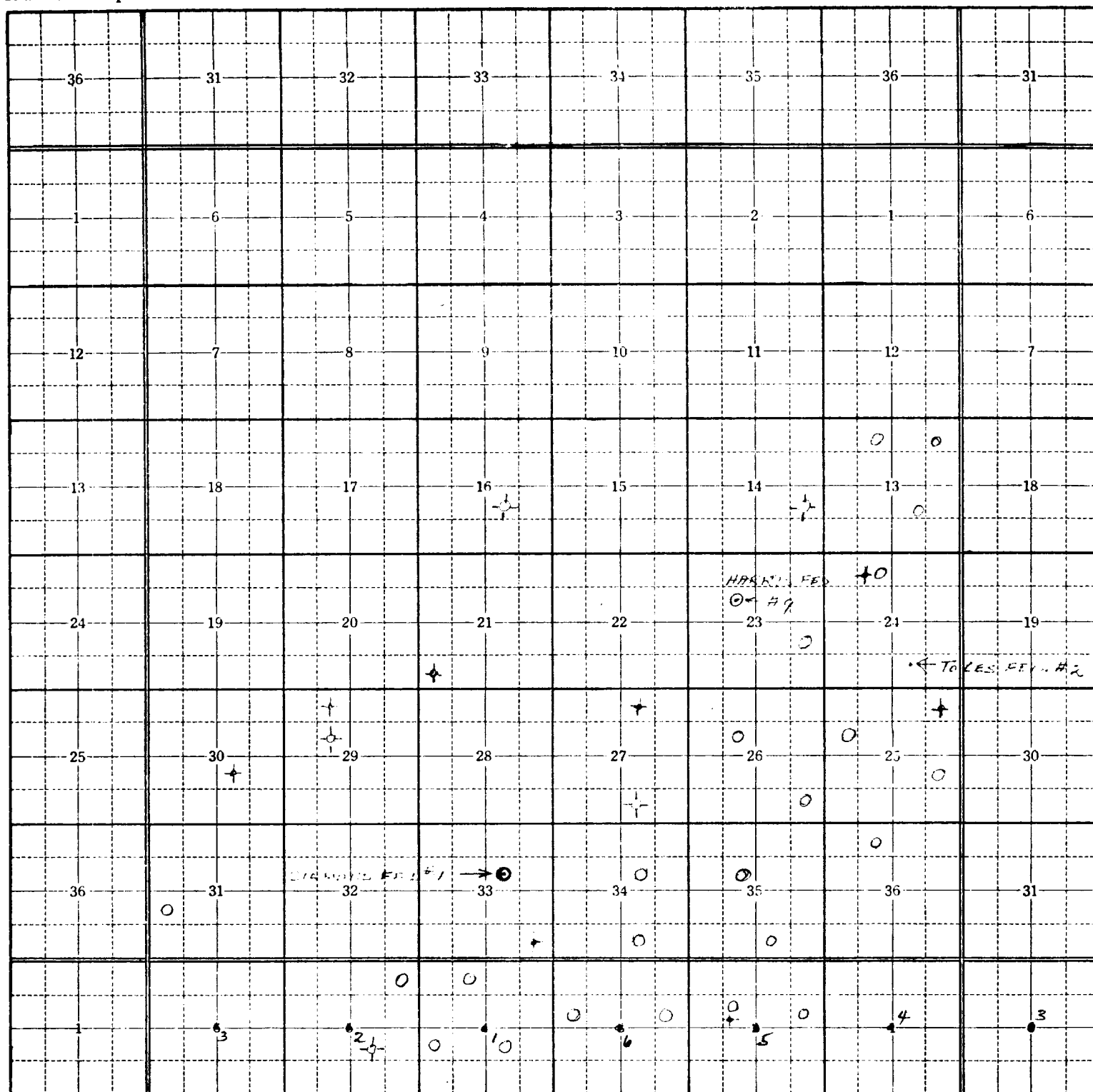
EXHIBIT "A"
READ & STEVENS, INC.
Diamond Federal, Well No. 1
1980' FNL & 1980' FEL, Sec. 33-T15S-R27E
Paved Highway: 
Existing Access Roads: 
Proposed Access Road: 





Township 15 S, Range 27 E, County Chaves, State New Mexico

Island Township Plat



Producing Gas Well ○
Producing Oil Well ●
Plugged & Abandoned +
Proposed Location ○●

EXHIBIT "C"
READ & STEVENS, INC.
Diamond Federal, Well No. 1
Existing Wells

SIERRA Drlg. Co.
Rig #2

