

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

NM OIL CONSERVATION DIVISION
 Drawer DD
 Artesia, NM 88210

Form approved.
Budget Bureau No. 42-R1425.

4/87

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

2. NAME OF OPERATOR
 STEVENS OPERATING CORPORATION

3. ADDRESS OF OPERATOR
 P. O. Box 2408, Roswell, New Mexico 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface 1980 FSL 330 FEL, Sec. 18, T-7-S R-27-E

At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 32.0 northeast of Roswell, New Mexico

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

16. NO. OF ACRES IN LEASE
 400

17. NO. OF ACRES ASSIGNED TO THIS WELL
 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 1320'

19. PROPOSED DEPTH
 2000'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 3954.6 GR

22. APPROX. DATE WORK WILL START*
 August 15, 1983

AUG 08 1983

O. C. D. ARTESIA, OFFICE

W. I.

5. LEASE DESIGNATION AND SERIAL NO.
 NM 27794

6. IF INDIAN ALLOTTEE OR TRIBE NAME
 N/A

7. UNIT AGREEMENT NAME
 N/A

8. FARM OR LEASE NAME
 Sorenson Federal

9. WELL NO.
 2

10. FIELD AND POOL, OR WILDCAT
 Wildcat San Andres

11. SEC., T., R., M. OR BLM. AND SURVEY OR AREA
 Sec. 18 T-7-S R-27-E

12. COUNTY OR PARISH
 Chaves

13. STATE
 NM

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24.0#	300'	Circulate to surface
6 1/2"	4 1/2"	10.5#	2000'	150' above pay zone

Well will be drilled to depth of approximately 2000' to evaluate the pay zone of the San Andres formation. If commercial production is indicated, well will be selectively perforated and stimulated.

- Attached are:
1. Well Location and Dedication Plat.
 2. Supplemental Drilling Data.
 3. Surface Use Plan.

Gas is not dedicated.

RECEIVED

AUG 2 1983

OIL & GAS

BOSWELL, NEW MEXICO

Approved by
 JD - 10/1/83
 8-12-83

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 [Signature] TITLE Production Controller DATE August 1, 1983

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY [Signature] TITLE _____ DATE 8/4/83

N MEXICO OIL CONSERVATION COMMISS
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

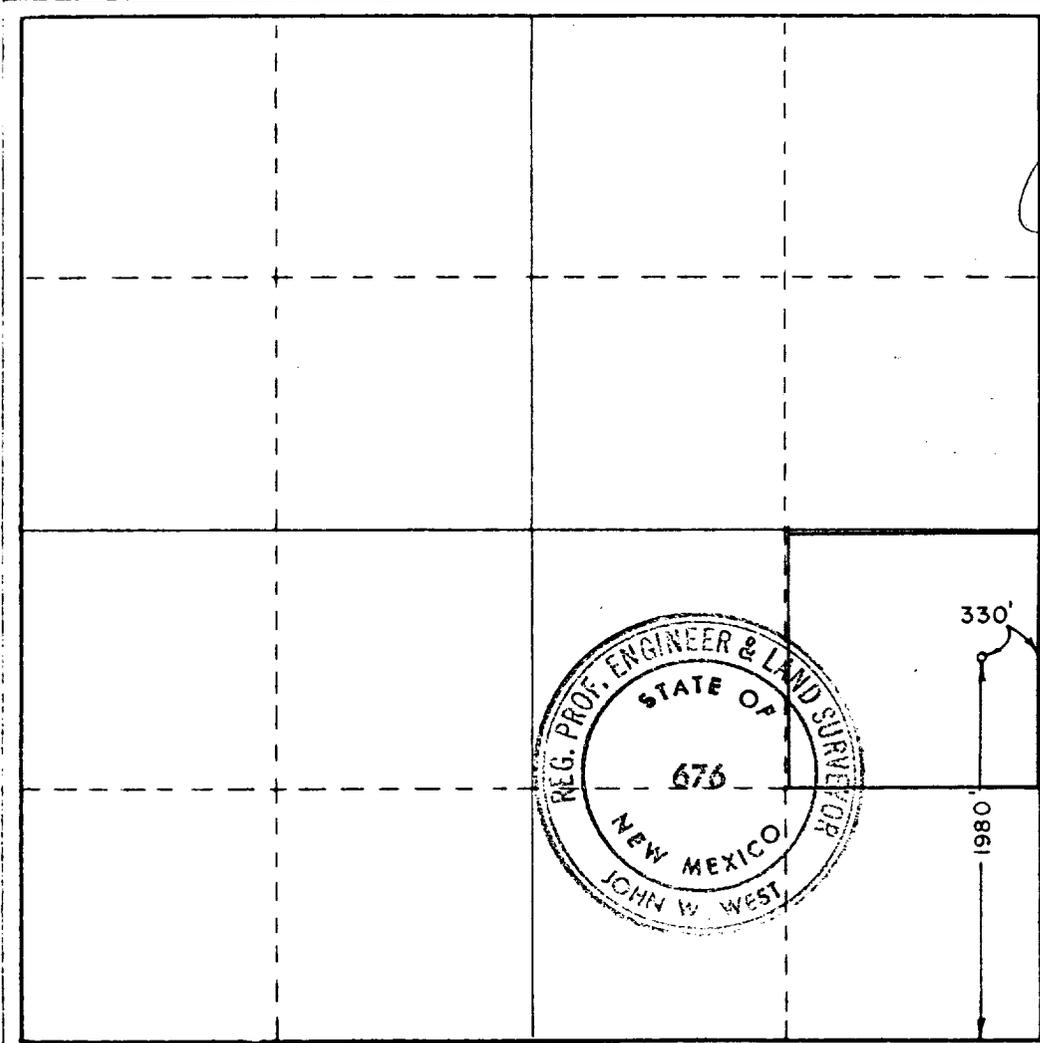
Operator Stevens Operating Company		Lease Sorenson Federal		Well No. 2
Unit Letter I	Section 18	Township 7 South	Range 27 East	County Chaves County
Actual Footage Location of Well: 1980 feet from the South line and 330 feet from the East line				
Ground Level Elev. 3954.6	Producing Formation San Andres	Pool Used Wildcat San Andres	Dedicated Acreage: 40 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.

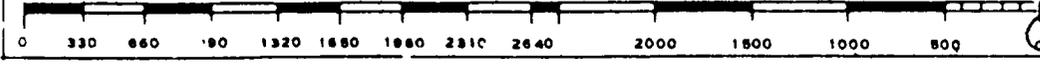
Pat Thompson
Pat Thompson

Name
Production Controller
Position
Stevens Operating Corporation
Company
August 1, 1983
Date

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
July 1, 1983
Registered Professional Engineer and/or Land Surveyor

John W. West
Certificate No. JOHN W. WEST, 676



RONALD J. EIDSON, 3239

SUPPLEMENTAL DRILLING DATA

STEVENS OPERATING CORPORATION
SORENSEN FEDERAL #2
1980 FSL 330 FEL, Sec. 18, T-7-S R-27-E
CHAVES COUNTY, NEW MEXICO

1. SURFACE FORMATION: Sandstone.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

San Andres	1300'	P-1	1735'
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3. ANTICIPATED POROSITY ZONES:

Water	250'
Oil	1735'

4. CASING DESIGN:

<u>Size</u>	<u>Interval</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>	<u>Condition</u>
8 5/8"	0 - 300'	24.0#	J-55	STC	New
4 1/2"	0 - 2000'	10.5#	J-55	STC	New

5. SURFACE CONTROL EQUIPMENT: If drilled with mud, a double ram-type preventer (900 series) will be used. A sketch of BOP stack is attached. If drilled with air, a rotating head will be used.

6. CIRCULATING MEDIUM:

0 - 300 Fresh water with gel added if needed for viscosity.
0 - TD Air or salt water conditioned as necessary for control of viscosity and water loss.

7. AUXILIARY EQUIPMENT: Drill string safety valve if drilled with mud.

8. TESTING, LOGGING AND CORING PROGRAMS:

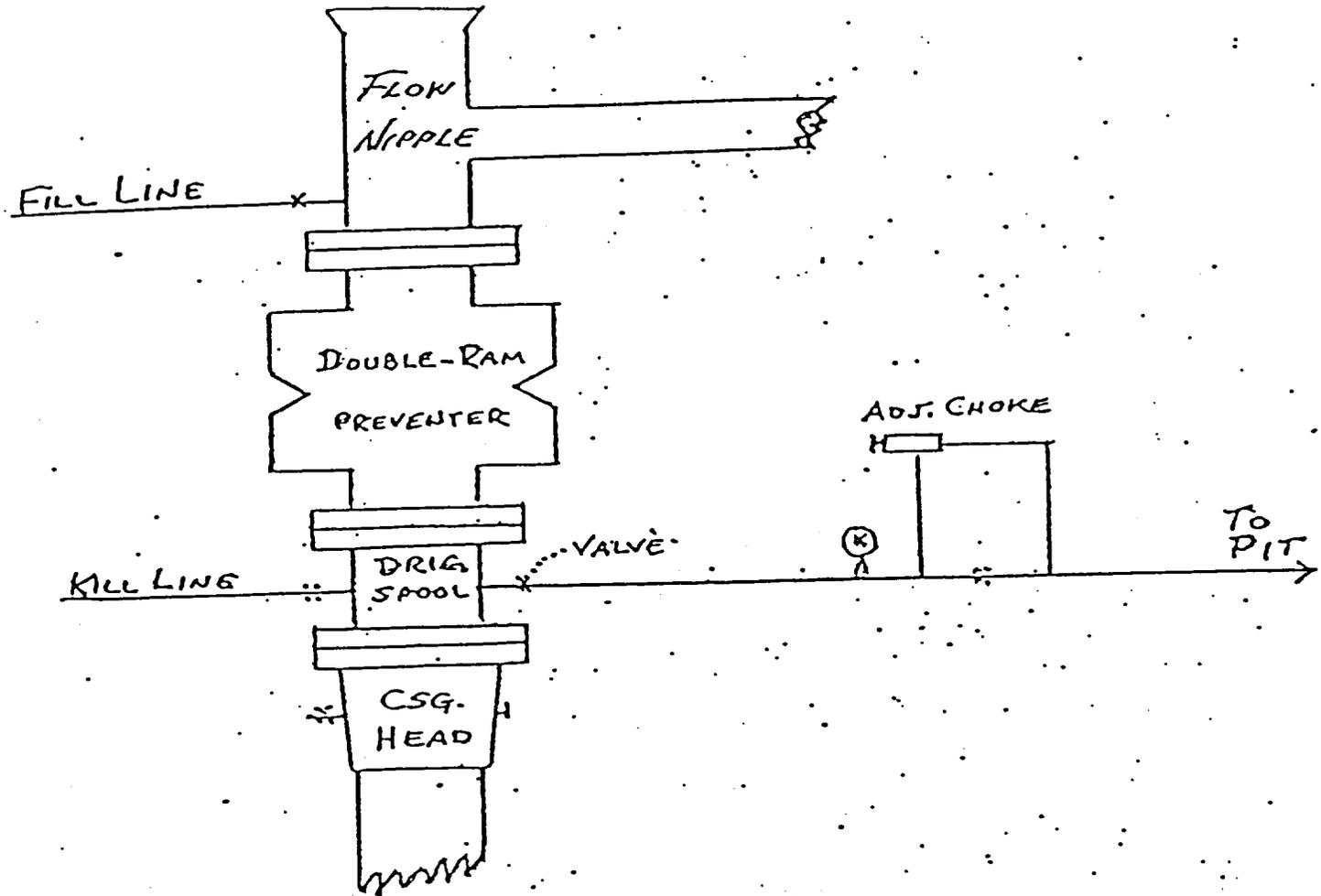
Logging: A Gamma Ray-Neutron Log will be run.

9. ABNORMAL PRESSURES, TEMPERATURES OR GASES: None anticipated.

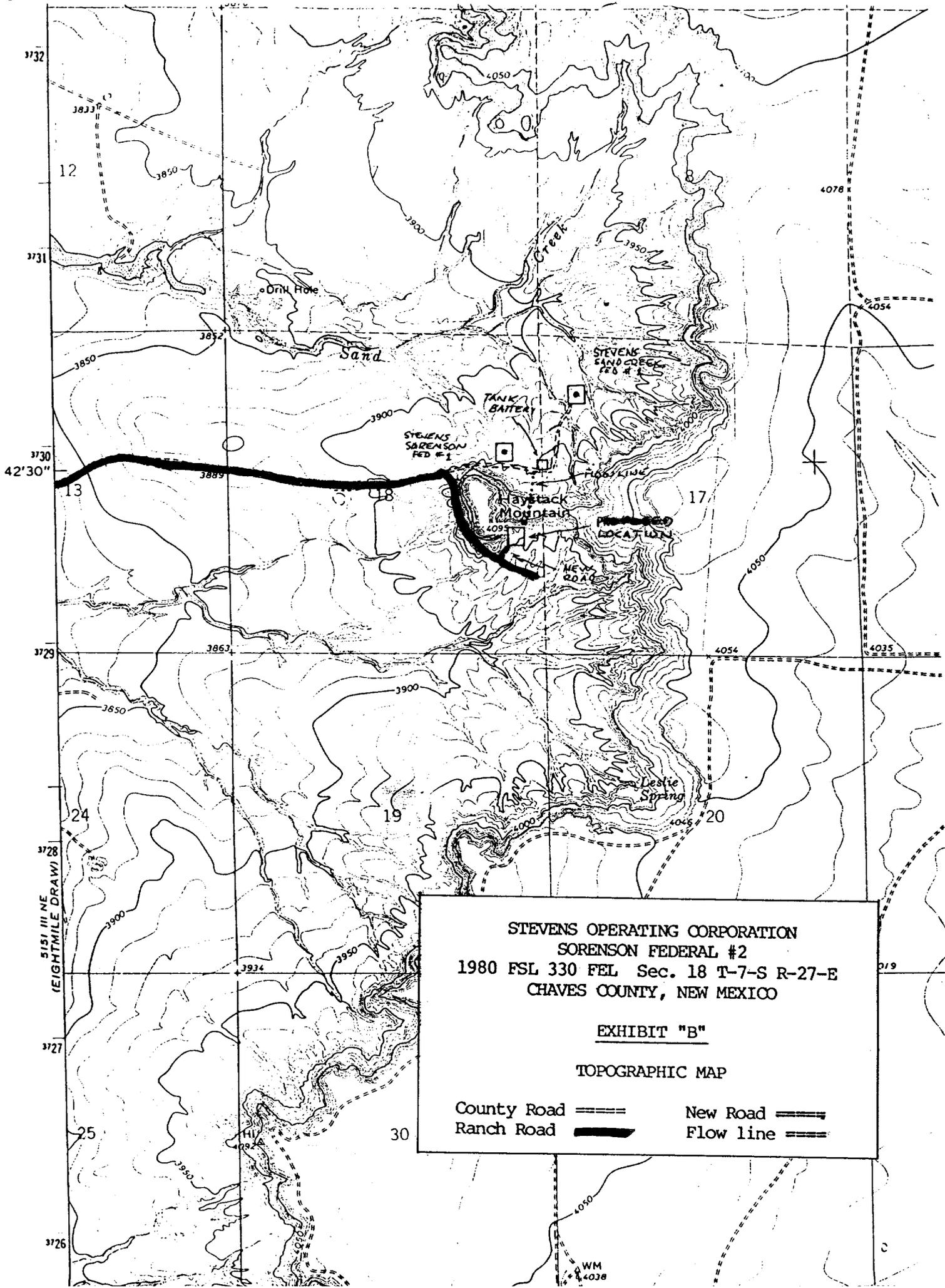
10. ANTICIPATED DATES: It is planned that drilling operations will commence about August 15, 1983. Duration of drilling and completion operations should be 20 to 60 days.

BLOW & CHOKER MANIFOLD

SERIES 900



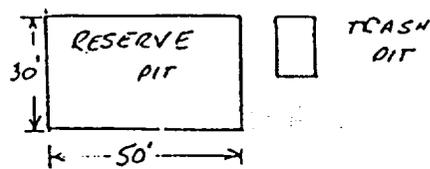
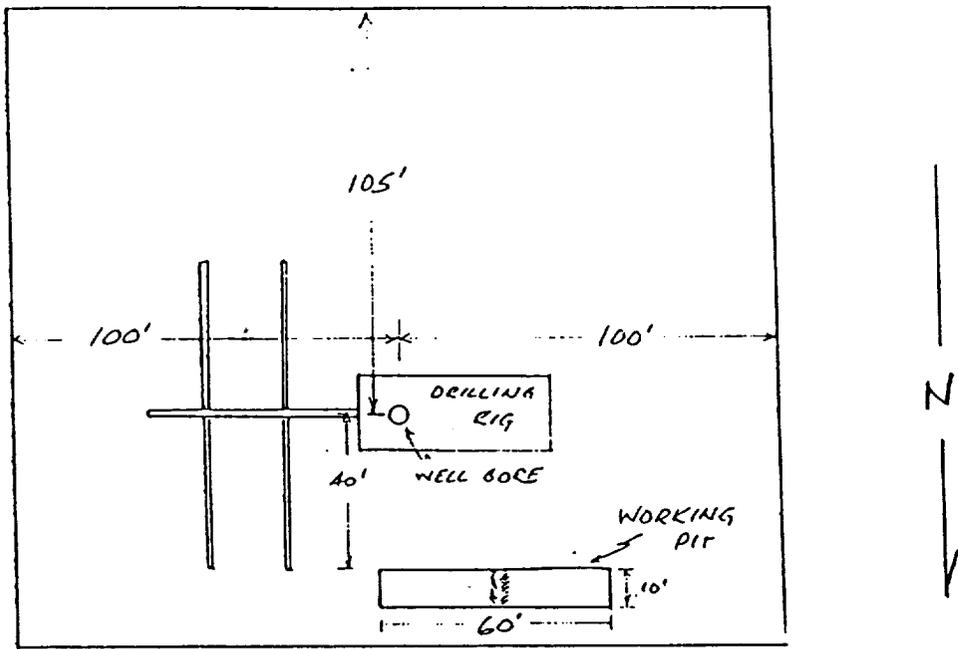
STEVENS OPERATING CORPORATION
SORENSEN FEDERAL #2
1980 FSL 330 FEL Sec. 18 T-7-S R-27-E
CHAVES COUNTY, NEW MEXICO
SDD EXHIBIT "A"



STEVENS OPERATING CORPORATION
 SORENSON FEDERAL #2
 1980 FSL 330 FEL Sec. 18 T-7-S R-27-E
 CHAVES COUNTY, NEW MEXICO

 EXHIBIT "B"
 TOPOGRAPHIC MAP

 County Road  New Road 
 Ranch Road  Flow line 



STEVENS OPERATING CORPORATION
 SORENSON FEDERAL #2
 1980 FSL 330 FEL Sec. 18 T-7-S R-27-E
 CHAVES COUNTY, NEW MEXICO

EXHIBIT "D"

SKETCH OF WELL PAD