

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## 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

Amoco Production Company

## 3. ADDRESS OF OPERATOR

P. O. Drawer A Levelland, Texas 79336

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

1880' FSL &amp; 660' FWL Sec 4 (Unit L NW/4 of SW/4)

At proposed prod. zone

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

Approximately 9 miles north of Jal, New Mexico

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

## 16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED  
TO THIS WELL18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

3450'

## 20. ROTARY OR CABLE TOOLS

Rotary

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

3272.4 GR

## 22. APPROX. DATE WORK WILL START\*

July 7, 1978

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE   | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|----------------|----------------|-----------------|---------------|--------------------|
| 11" or 12 1/4" | 8 5/8"         | 24#             | 1200'         | Circ to surf       |
| 7 7/8"         | 5 1/2"         | 14#             | 3450'         | Circ to surf       |

After reaching TD, logs and cores will be run and evaluated. Perforate and/or stimulate as necessary in attempting commercial production.

MUD: 0" - 1200' - Native mud x fresh water.

1200' - 3450' - Brine water, native mud and sufficient commercial mud

Unless Drilling Operations have hole conditions.

Commenced, this drilling approval

Expires Sept 29, 1978

BOP Program attached.

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

Gas is dedicated to Northern Natural Gas Co.

Archaeological Clearance Report Attached.

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

TITLE

Admin. Analyst (SG)

DATE

6-15-78

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

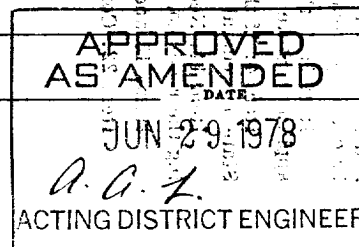
0+5- USGS-H

1- Div

1- RC

1- Susp

\*See Instructions On Reverse Side



NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-55

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

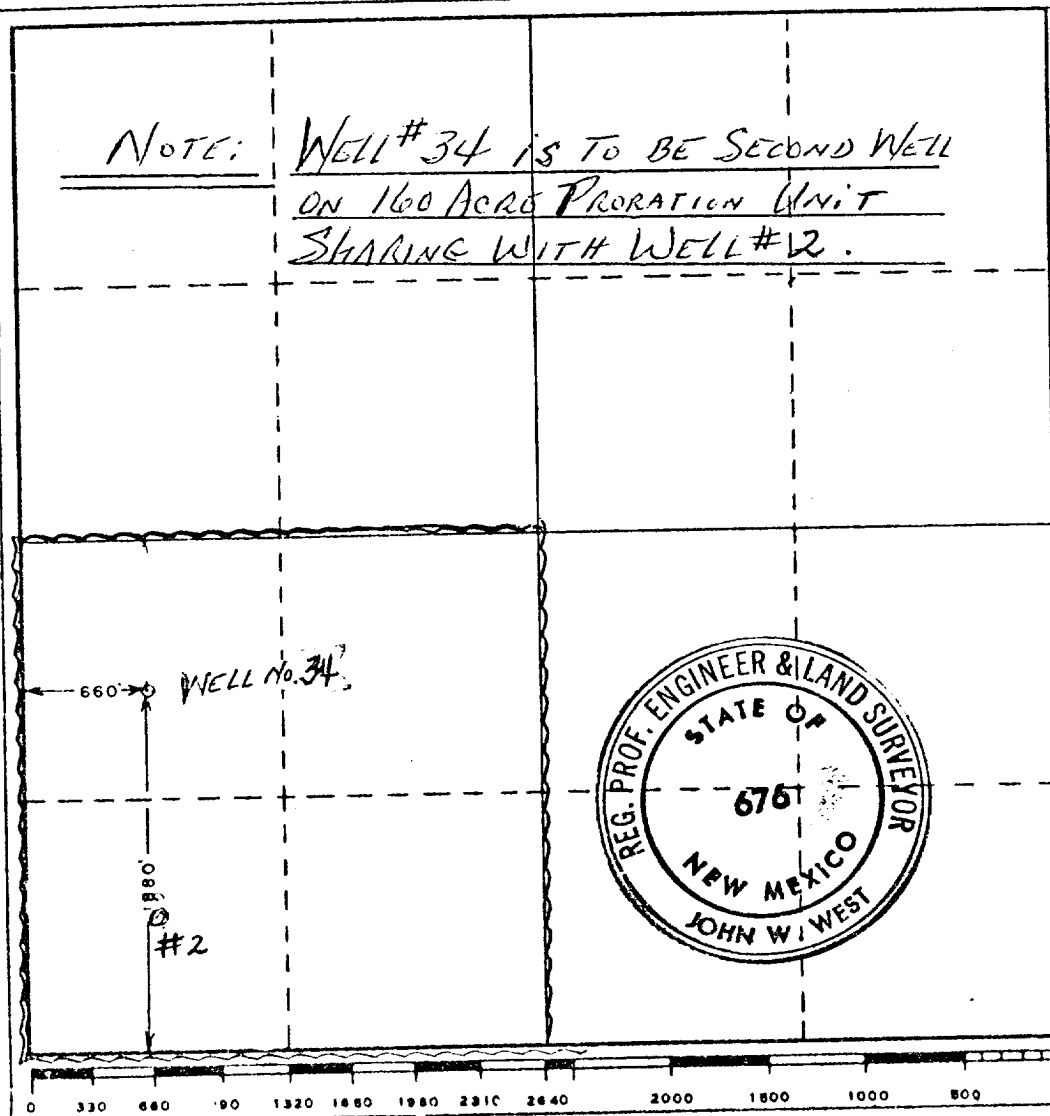
|   |  |                                      |                        |                                       |
|---|--|--------------------------------------|------------------------|---------------------------------------|
| Operator<br><b>Amoco Production Co.</b>   |  | Lease<br><b>M. yers B Fed. R/A A</b> |                        | Well No.<br><b>34</b>                 |
| Unit Letter<br><b>L</b>   | Section<br><b>4</b>                                | Township<br><b>24South</b>           | Range<br><b>37East</b> | County<br><b>Lea</b>                  |
| Actual Footage Location of Well:<br><b>1880'</b> feet from the <b>South</b> line and <b>660'</b> feet from the <b>West</b> line |  |                                      |                        |                                       |
| Ground Level Elev.<br><b>3272.4</b>   | Producing Formation<br><b>YATES - SEVEN RIVERS</b> |                                      | Pool<br><b>JALMAT</b>  | Dedicated Acreage<br><b>160</b> 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 Commission.



CERTIFICATION

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

Name W. K. Couch  
Position Administrative Analyst (SG)  
Company AMECO PRODUCTION COMPANY  
Date 5-31-78

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 May 20, 1978  
Registered Professional Engineer and/or Land Surveyor  
John W. West  
Certificate No. John W. West 676  
Ronald J. Eidson 3239

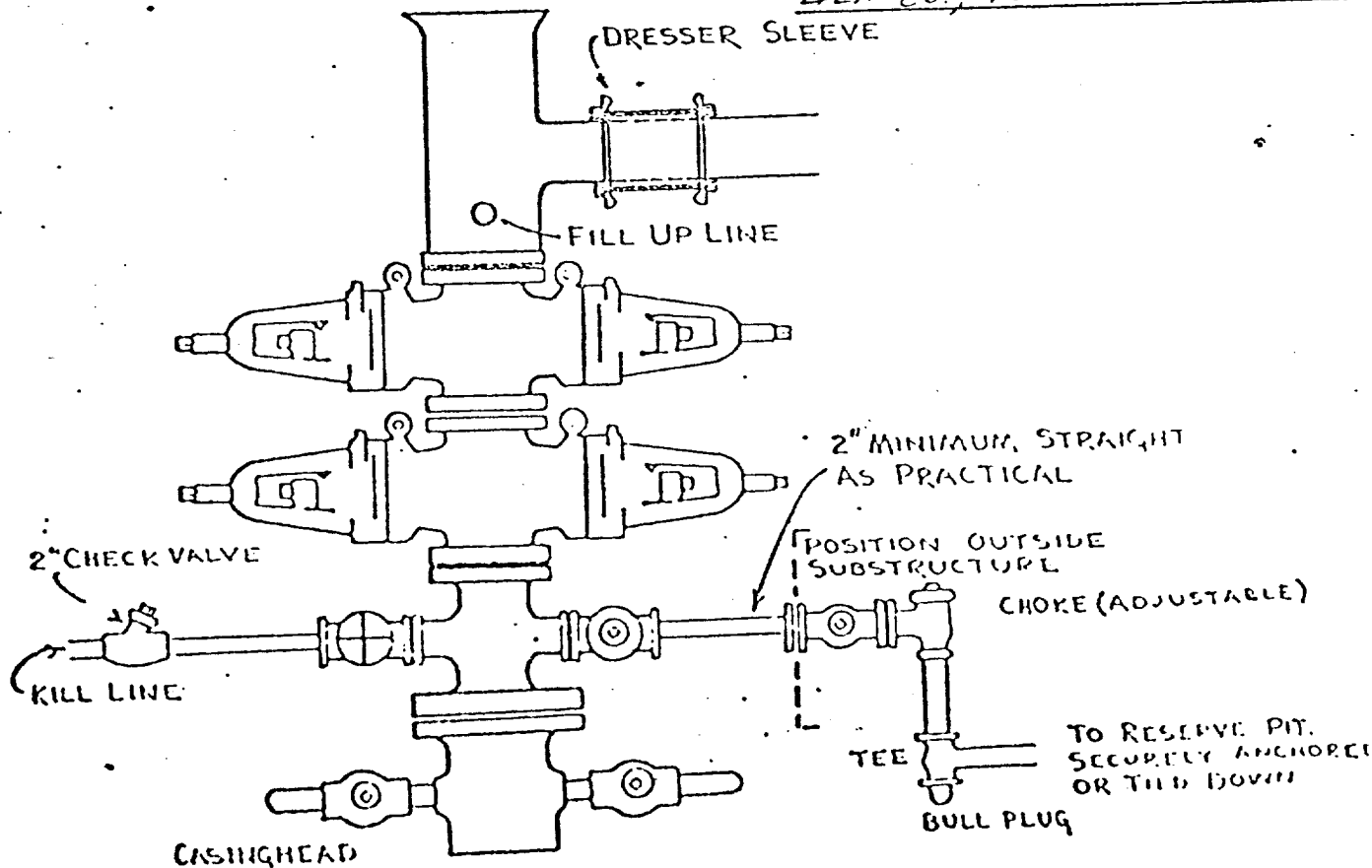
1. BLOW-OUT PREVENTERS MAY BE MANUAL OPERATED.
2. ALL EQUIPMENT MUST BE IN GOOD CONDITION, 2,000 PSI W.P. (4,000 PSI TEST) MINIMUM.
3. WELL NIPPLE ABOVE BLOW-OUT PREVENTER SHALL BE SAME SIZE AS CASING BEING DRILLED THROUGH.
4. KELLY COCK TO BE INSTALLED ON KELLY.
5. FULL OPENING SAFETY VALVE 2,000 PSI W.P. (4,000 PSI TEST) MINIMUM, MUST BE AVAILABLE ON RIG FLOOR AT ALL TIMES WITH PROPER CONNECTION OR SUBS TO FIT ANY TOOL JOINT IN STRING.
6. SPOOL OR CROSS MAY BE ELIMINATED IF CONNECTIONS ARE AVAILABLE IN THE LOWER PART OF THE BLOW-OUT PREVENTER BODY.
7. DOUBLE OR SPACE SAVER TYPE PREVENTERS MAY BE USED IN LIEU OF TWO SINGLE PREVENTERS.
8. BOP RAYS TO BE INSTALLED AS FOLLOWS:\*

|                  |   |                           |
|------------------|---|---------------------------|
| TOP PREVENTER    | - | DRILL PIPE OR CASING RAYS |
| BOTTOM PREVENTER | - | BLIND RAYS                |

\*AMOCO AREA SUPT. MAY REVERSE LOCATION OF RAYS.

9. EXTENSIONS AND HAND WHEELS TO BE INSTALLED AND BRACED AT ALL TIMES.
10. MANIFOLD VALVES MAY BE GATE OR PLUG METAL TO METAL SEAL 2" MINIMUM.

AMOCO PRODUCTION COMPANY  
MYERS "B" FEO. R/A A #34  
SEC 4 T-24-S R-37-E  
LICA Co., A.M.



5/24/77

Attachment to "Application for Permit to Drill", Form 9-331 C

Myers "B" Federal R/A A Well No. 34, Unit L, 1880' FSL x 660' FWL, Sec. 4,  
T-24-S, R-37-E, Lea County, New Mexico

1. Location

See attached Form C-102

2. Elevation

See attached Form C-102

3. Geologic name of surface formation.  
Ogallala

4. Type of drilling tools and associated equipment to be utilized.

See Form 9-331 C

5. Proposed drilling depth.

See Form 9-331 C

6. Estimated tops of important geologic markers.

Rustler . 1180'  
Yates 2870'  
Seven Rivers 3210'

7. Estimated depths at which anticipated water, oil, gas or other mineral-bearing formations are expected to be encountered.

Yates 2870'  
Seven Rivers 3210'

8. Proposed casing program, including size, grade, and weight of each string and whether it is new or used.

| <u>Depth</u> | <u>Size</u> | <u>Weight</u> | <u>Grade</u> | <u>New or Used</u> |
|--------------|-------------|---------------|--------------|--------------------|
| 1200'        | 8 5/8"      | 24#           | K-55 ST&C    | New                |
| 3400'        | 5 1/2"      | 14#           | K-55 ST&C    | New                |

9. Proposed cementing program.

8 5/8" Casing - Sufficient cement to circulate to surface.  
5 1/2" Casing - Sufficient cement to circulate to surface.

10. Blowout Preventer Program is attached.
11. Type and characteristics of the proposed circulating medium or mediums to be employed for rotary drilling, and the quantities and types of mud and weighting material to be maintained.
- 0' - 1200' - Native mud x fresh water
  - 1200' - 3450' - Brine water, native mud and sufficient commercial mud to maintain good hole conditions.
12. Testing, logging and coring programs to be followed with provisions made for required flexibility.
- 0 - 3450' - CNL-FDC-GR w/caliper
  - 0 - 3450' - Dual Laterolog-Micro SFL
13. Any anticipated abnormal pressure or temperatures expected to be encountered or potential hazards, such as hydrogen sulfide gas, along with plans for mitigating such hazards.
- None anticipated.
14. Anticipated starting date and duration of operation.
- Start 7-7-78. Complete 7-25-78.
15. Other facets of the proposed operation operator wishes to point out for the Geological Survey's consideration of the application.
- None

ATTACHMENT TO FORM 9-331C

APPLICATION FOR PERMIT TO DRILL

LEASE Myers B Federal R/A A WELL NO. 34

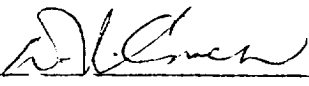
LOCATION Unit L, Sec. 4, T-24-S, R-37-E

POOL Jalmat (Yates-Seven Rivers)

COUNTY Lea County, New Mexico

The undersigned hereby states that Amoco's representative, Mr. E. E. Pauley, personally contacted Jimmy J. Doom, the owner ~~of~~ of the surface land where the proposed work is to be conducted and advised him of the proposed work, the construction site and pertinent roads included in the project. It is further stated that, upon being fully advised of the extent of the work and the effect upon the surface, said owner has consented to the said work and that agreement as to the compensation for damages to the surface estate has been reached.

If the well is a producer, all pits will be cut, filled and leveled as soon as practical after the pits are dry. If the well is a dry hole, pits will be filled as above, a dry hole marker will be installed, and the location and pad will remain intact.

  
\_\_\_\_\_  
D. R. Couch  
Administrative ~~Supervisor~~ (SG)  
*ANALYST*

6-15-78  
Date

## Proposed Development Plan for Surface Use

Amoco Production Company's Myers B Federal R/A A Well No. 34, Unit L, 1880' FSL x 660' FWL, Sec 4, T-24-S, R-37-E, Lea County, - (Development Well).

1. Existing roads including location of exit from main highway.

Detailed map showing drillsite location in relation to the nearest town and all existing roads within one mile of the wellsite are shown on Exhibit A. From Jal, go north on Highway 18 six miles. Turn west on dirt road across railroad tracks for .1 mile, turn north .7 mile. No new road required.

2. Planned access roads.

528' of new road will be built. (See Exhibit A)

3. Location of existing wells.

All existing wells within one mile radius are shown on Exhibit C.

4. Location of tank batteries and flow lines.

If the well is commercially productive, the production facilities (i.e. tanks, separators and treaters) will be located on the south east end of the drilling pad. See Exhibit D.

5. Location and type of water supply.

Fresh and brine water will be hauled by Commercial Carrier, McCasland (Eunice, NM)

6. Source of construction materials.

Caliche will be obtained from an existing pit 1/4 mile East of the wellsite. NE/4 of SW/4 Sec. 4, T-23-S, R-37-E. (See Exhibit "B")

7. WASTE DISPOSAL -

- a. Drill cuttings will be disposed of in the reserve pit.
- b. Drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry.

- c. Trash, waste paper, garbage and junk will be burned or buried with a minimum of 24" cover. Waste material will be contained to prevent scattering by wind prior to ultimate disposal.
- d. Any produced water will be contained in tanks and be disposed of in an approved manner. Oil produced will be stored in tanks until sold, at which time it will be hauled from location.
- e. Current laws and regulations pertaining to disposal of human waste will be complied with.
- f. If productive, maintenance waste will be placed in special containers and buried or hauled away periodically.

#### 8. ANCILLARY FACILITIES -

No camps, airstrips, etc. will be constructed.

#### 9. WELLSITE LAYOUT -

- a. Size of Drilling Pad - *220' x 150' x 6"*.
- b. Compacted - Caliche
- c. Surfaced - *No*.
- d. *450'* square area around wellsite has been cleared by archaeologist.
- e. See Exhibit D.

#### 10. RESTORATION OF SURFACE -

Producing Well - all pits will be cut, filled, and leveled as soon as practical to original condition with rehabilitation to commence following removal of drilling and completion equipment. Rehabilitation to be completed in 180 days if possible.

Dry Hole - same as above with dry hole marker to be installed and surface reseeded if required.

#### 11. OTHER INFORMATION -

- a. Terrain - undulating plain with small depressions formed by wind x water erosion.
- b. Soil - Thin, Sandy Loams.
- c. Vegetation - Broom Snakeweed, Rubber Rabbitbrush, Shinnery Oak, Creosote Bush,
- d. Surface Use - Grazing Cacti, Grama Grass.
- e. Ponds and Streams - None
- f. Water Wells - None
- g. Residences and Buildings - None
- h. Arroyos, Canyons, etc. - None
- i. Well Sign - Posted at drillsite.
- j. Open Pits - All pits containing liquid or mud will be fenced.
- k. Archaeological Resources - Drillsite, which is in undulating plain, semi-arid, desert country, is in a low environmental risk area. The total effect of drilling and producing in this area would be minimal. No known archaeological, historical, or cultural sites exist in the drill or road areas.



12. OPERATOR'S REPRESENTATIVE -

Field personnel responsible for compliance with development plan for surface use is:

J. H. Hankins, Senior Drilling Foreman  
P. O. Drawer "A"  
Levelland, TX 79336  
Office Phone: 806-894-3163

LEASE & WELL NUMBER Myers B Federal R/A A Well No. 34  
LOCATION Unit , 1880 ' FSL X 660 ' FWL, Sec. 4 , T-24-S, R- 37-E, , Lea County

Certification: The following statement is to be incorporated in the plan and must be signed by the lessee's or operator's field representative who is identified in Item No. 12 of the plan.

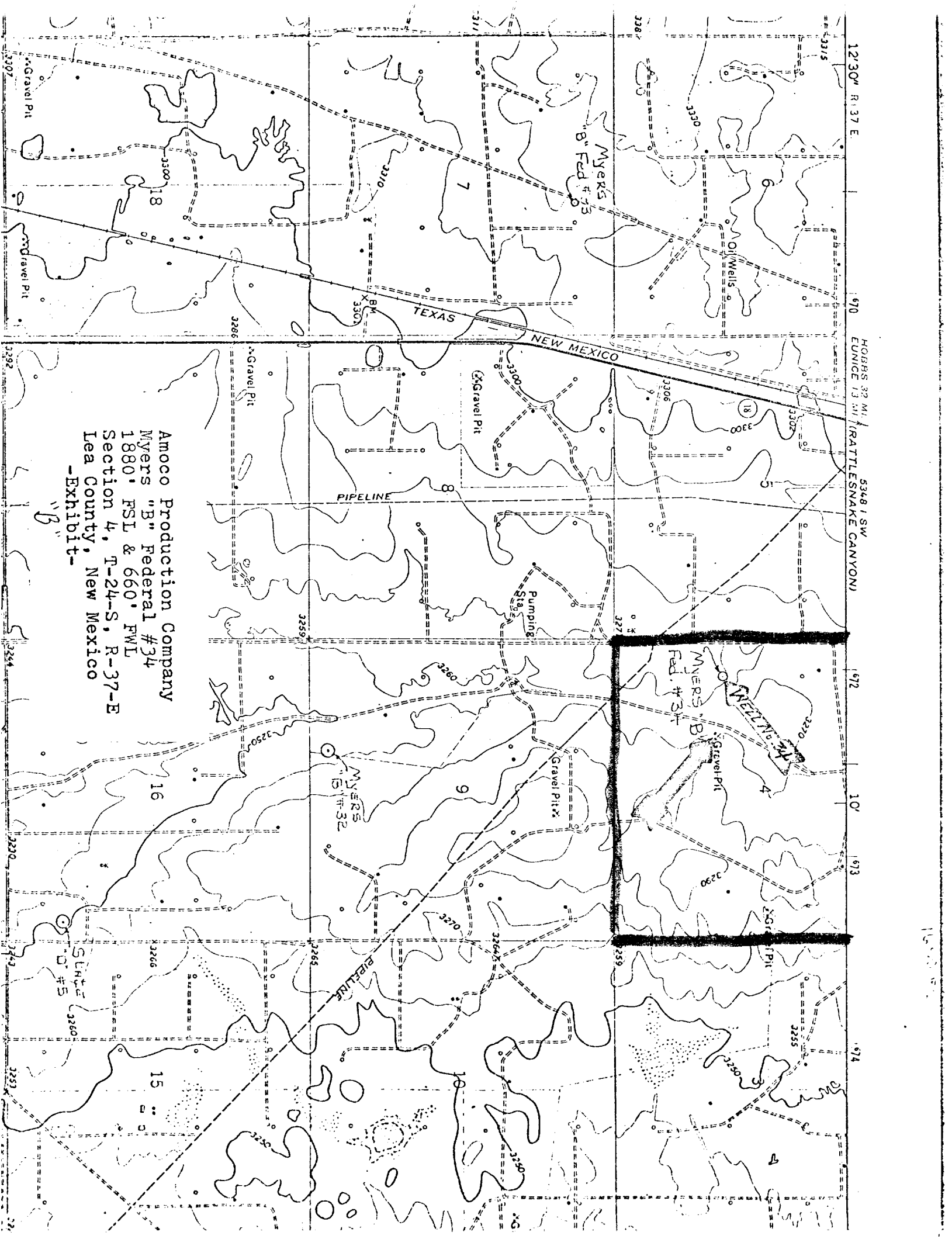
I hereby certify that I, or persons under my direct supervision have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by AMOCO PRODUCTION COMPANY and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

6-12-78  
DATE

*J. H. Hawkins*  
NAME AND TITLE

Sr. Drlg. Foreman





1230' R, 37 E  
90  
HOBBS 32 MI.  
EUNICE 13 MI  
5348 I SW  
RATTLESNACK CANYON

Myers  
B Fed #34

TEXAS  
NEW MEXICO

PIPELINE

Pumping

MYERS  
B  
Fed. #34

Gravel Pit

Gravel Pit

MYERS  
B  
Fed. #32

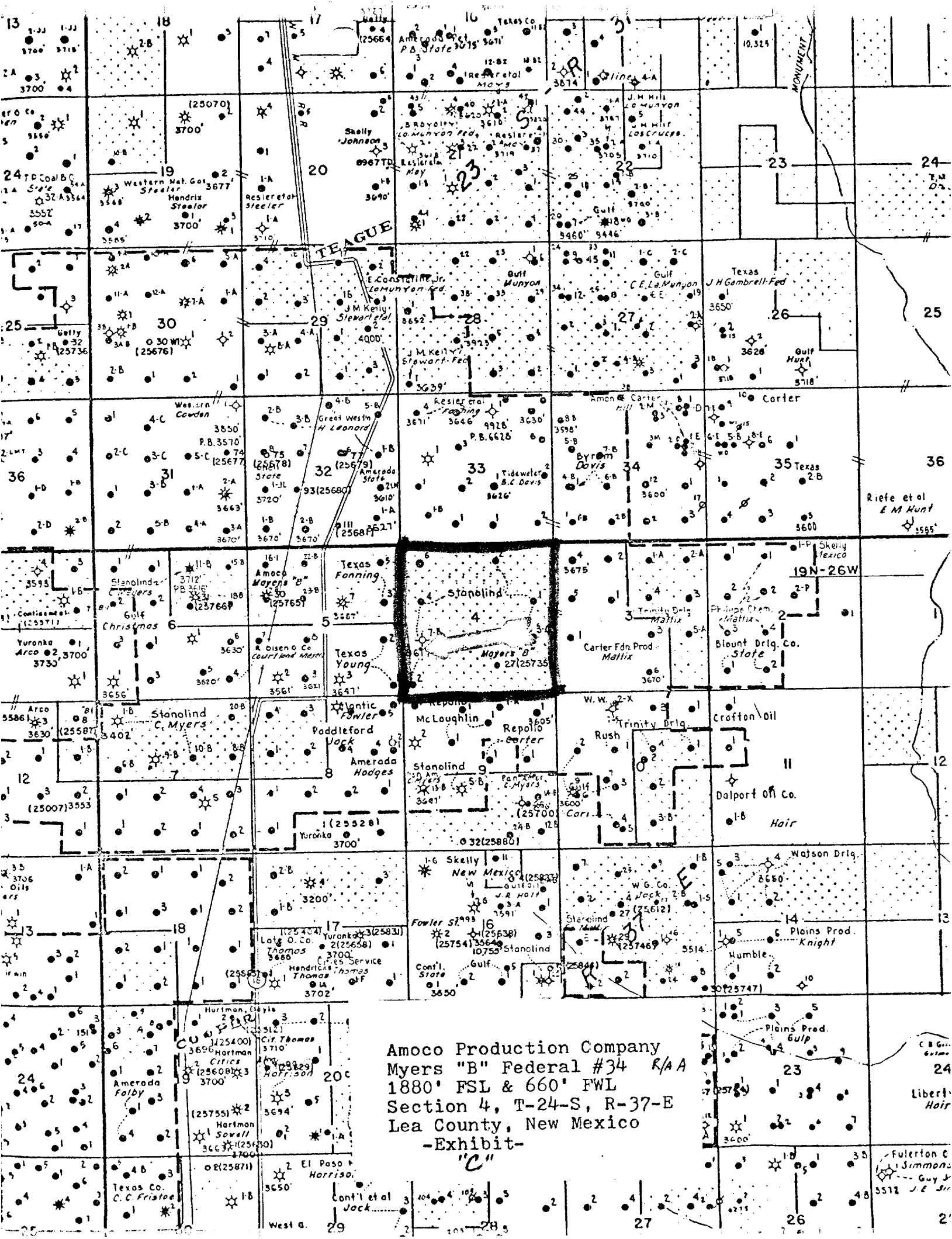
PIPELINE

Gravel Pit

Amoco Production Company  
Myers "B" Federal #34  
1880' FSL & 660' FWL  
Section 4, T-24-S, R-37-E  
Lea County, New Mexico

-Exhibit-

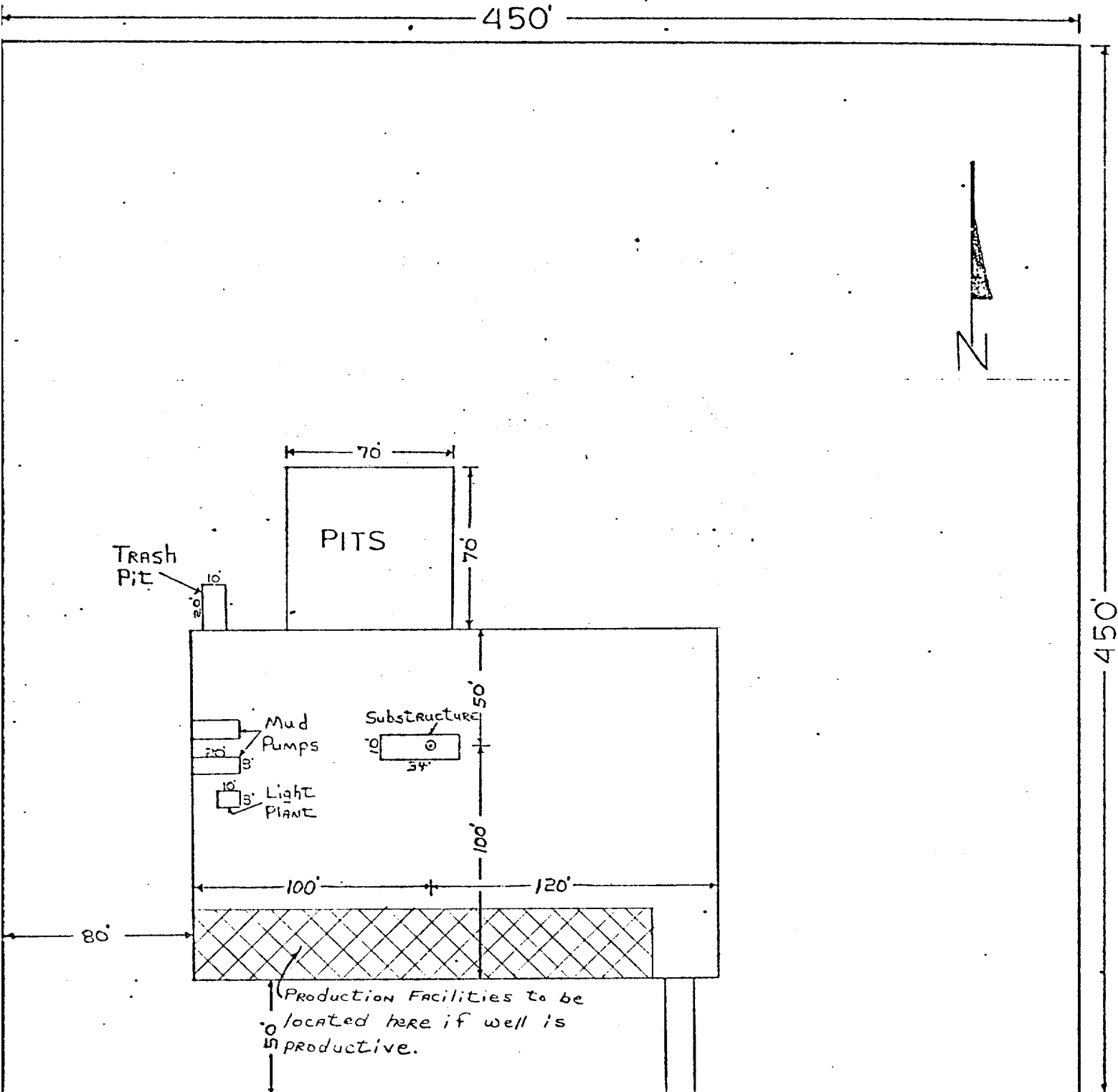
"B"



Amoco Production Company  
Myers "B" Federal #34 R/A A  
1880' FSL & 660' FWL  
Section 4, T-24-S, R-37-E  
Lea County, New Mexico  
-Exhibit-  
"C"

# DRILL SITE DIMENSIONS

LESS THAN 8000'



AMOCO PRODUCTION COMPANY

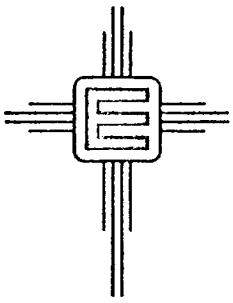
MYERS "D" FEDERAL NO. 34 R/A A

SEC. 4, T-24-S R-37-E

LEA Co., N.M.

EXHIBIT

"D"



13 June 1978

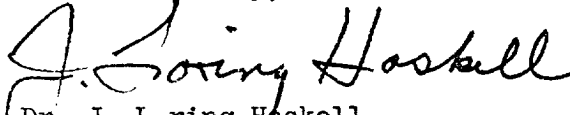
Mr. Bob Couch  
Amoco Production Company  
P. O. Drawer A  
Levelland, Texas 79336

Dear Mr. Couch:

Enclosed please find the Agency for Conservation Archaeology's clearance report for Amoco Production Company. No archaeological sites, or isolated manifestations, were encountered during the course of this reconnaissance.

If I may be of further service to you, do not hesitate to call me at (505) 562-3332.

Yours sincerely,

  
Dr. J. Loring Haskell  
Director - Principal Investigator

dlg

Enclosure

Archaeological Clearance Report  
for  
Amoco Production Company  
Megers B Federal R/A A Well No. 34

by  
Bill Sweetland

Edited and Submitted by  
Dr. J. Loring Haskell  
Director - Principal Investigator  
Agency for Conservation Archaeology  
Eastern New Mexico University  
Portales

12 June 1978



## INTRODUCTION

An archaeological reconnaissance was completed recently by the Agency for Conservation Archaeology, Eastern New Mexico University, Portales, for Amoco Production Company in Lea County, New Mexico. The investigated area will be impacted by the construction of a well location and access road. The project was administered by Mr. Alan Hundley, representative for Amoco Production Company, and Dr. J. Loring Haskell, Director - Principal Investigator, Agency for Conservation Archaeology. The archaeological reconnaissance was conducted by Bill Sweetland on 8 June 1978 under Federal Antiquities Permit No. 78-NM-015.

## SURVEY TECHNIQUE

The archaeologist accomplished the reconnaissance by walking a series of transects, first describing the perimeter of the proposed location and thence a series of 20 ft wide transects across the proposed pad. The access road was examined by the archaeologist inspecting both sides of the existing access road.

### Megers B Federal R/A A Well No. 34

## LOCATION

The proposed drill location measures 450 X 450 ft with the center located at a point 1880 ft from the south line and 660 ft from the west line of:

Section 4, T24S, R37E, NMPM, Lea County, New Mexico (BLM)  
More specifically, it is situated in the:

NW 1/4SW 1/4, Section 4, T24S, R37E, NMPM, Lea County, NM (BLM)

### LOCATION (continued)

Access to this location will be gained via 528 ft existing road. It will pass through the:

NW 1/4SW 1/4, Section 4, T24S, R37E, NMPM, Lea County, NM (BLM)  
Map Reference: USGS Jal Northwest Quadrangle, 7.5 minute series, 1969.

### TERRAIN

The proposed drill location has been partially impacted by a previously constructed drill site. This location lies on a gentle slope which trends toward the southeast. Gradient is approximately 10 ft per mile with local anomalies appearing on the slope. Local soils belong to the Paleorthid-Haplargid association. Individuals are thin, sandy loams underlain by indurated caliche.

### FLORISTICS

The local floral assemblage is dominated by Gutierrezia sarothrae, Schrankia occidentalis, Chrysothamnus nauseosus, Larrea tridentata, Quercus havardii, Opuntia sp (platyopuntia), and Solanum elaeagnifolium. Graminae is represented by Andropogon scoparius, Bouteloua eriopoda, Agropyron smithii, Muhlenbergia torreyi, and

### CULTURAL RESOURCES

No archaeological sites, or isolated manifestations, were recorded during ACA's reconnaissance. All materials found were modern in origin and probably in direct relationship to the abandoned drill site.

RECOMMENDATIONS

ACA recommends clearance for the proposed drill site and access road and suggests that construction proceed without modification of existing plans.

U. S. Geological Survey

HOBBS DISTRICT

|   |
|---|
| Amoco Production Company<br>No. 34 Myers B Federal<br>NW $\frac{1}{4}$ SW $\frac{1}{4}$<br>Lea County, New Mexico |
|---|

|                                  |
|----------------------------------|
| Above Data Required on Well Sign |
|----------------------------------|

CONDITIONS OF APPROVAL

1. Drilling operations authorized are subject to compliance with the attached General Requirements for Drilling Operations on Federal Oil and Gas Leases, dated January 1, 1977.
2. Notify this office (telephone (505) 393-3612) when the well is to be spudded and in sufficient time for a representative to witness all cementing operations. Attached are names and telephone numbers of Geological Survey and Bureau of Land Management personnel who are available for consultation during construction, drilling, completion, and rehabilitation activities.
3. Immediate notice is required of all blowouts, fires, spills, and accidents involving life-threatening injuries or loss of life.
4. Secure prior approval of the District Engineer for variance from the approved drilling program and before commencing plugging operations, plug-back work, casing repair work, corrective cementing operations, or suspending drilling operations indefinitely.
5. Blowout prevention equipment is to be installed, tested, and in working order before drilling below the surface casing and shall be maintained ready for use until drilling operations are completed.
6. Operations must be in compliance with the provisions of the landowner agreement concerning surface disturbance and surface restoration.