Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

30-025-25135
Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: NM 7488

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER — SINGLE ZONE [X] MULTIPLE ZONE [ ]

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Myers B Federal

2. NAME OF OPERATOR: Amoco Production Company

9. WELL NO.: 27

3. ADDRESS OF OPERATOR: P. O. Drawer A, Levelland, TX 79336

10. FIELD AND POOL, OR WILDCAT: Jalmat Yates-7 Rivers

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 990' FSL and 1,980' FEL (Unit O, Sec4)
At proposed prod. zone

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 4-24-37

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 10 miles north of Jal, N.M.

12. COUNTY OR PARISH: Lea

13. STATE: N.M.

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 WELL: 160

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

19. PROPOSED DEPTH: 3,150

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 3281.37 GR

22. APPROX. DATE WORK WILL START*: November 30, 1977

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8 5/8"	24#	1,200'	Circ. to Surf.
7 7/8"	5 ½"	14-15.5#	3,150	Circ. to Surf.

APPROVAL TO ... WHILE DRILLING ...

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

Mud - 0' - 1,200' - Native mud x fresh water
1,200' - 3,150' - Brine water, native mud and sufficient commercail mud to maintain good hole conditions.

BOP Program attached.
Archaeological Reconnaissance attached.
Gas is not dedicated.
Non-Standard Unit Waiver Request has been filed with offset operators involved; approval will be given by the NMOCC.

Unless Drilling Operations have Commenced, this ... approval 2-14-78

SEE ATTACHED FOR CONDITIONS OF APPROVAL

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 Randy Atkins TITLE Staff Assistant (SG) DATE 10-28-77

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED AS AMENDED
NOV 14 1977
ARTHUR R. BROWN
DISTRICT ENGINEER

*See Instructions On Reverse Side

0+4 USGS-H
1 DIV
1 SUSP
1 RC

NEW MEXICO OIL CONSERVATION COMMISSION

WELL L ATION AND ACREAGE DEDICATION I T

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.
Amoco Production Company	Myers "B" Federal	27

Unit Letter	Section	Township	Range	County
O	4	24 South	37 East	Lea

Actual Footage Location of Well:
990 feet from the South line and 1980 feet from the East line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3281.37	YATES- SEVEN RIVERS-	JALMAT	160 Acres

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

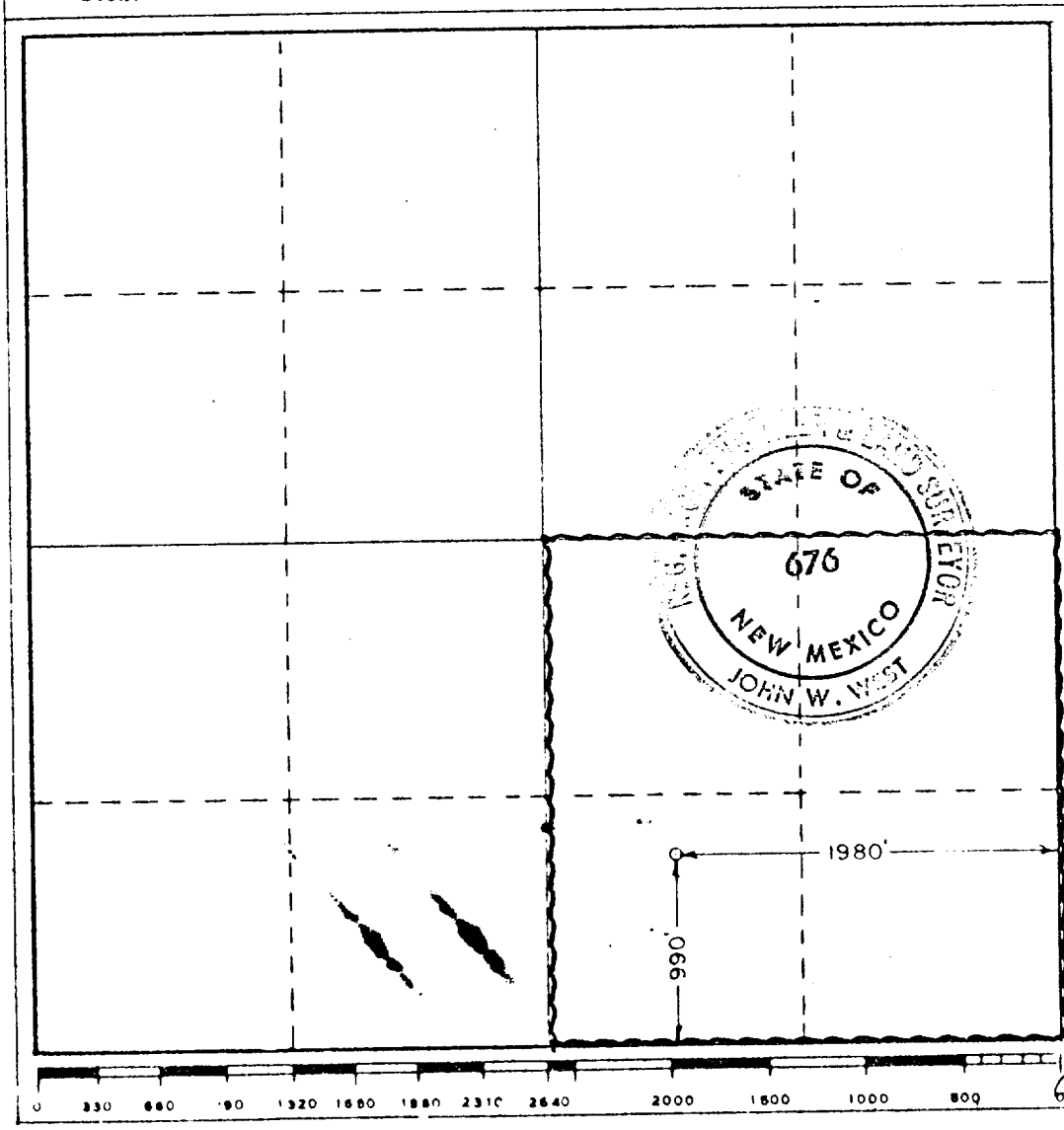
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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: Ray W. Cox

Position: Administrative Assistant

Company: AMOCO PRODUCTION COMPANY

Date: 9-30-77

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: September 19, 1977

Registered Professional Engineer and/or Land Surveyor

John W. West

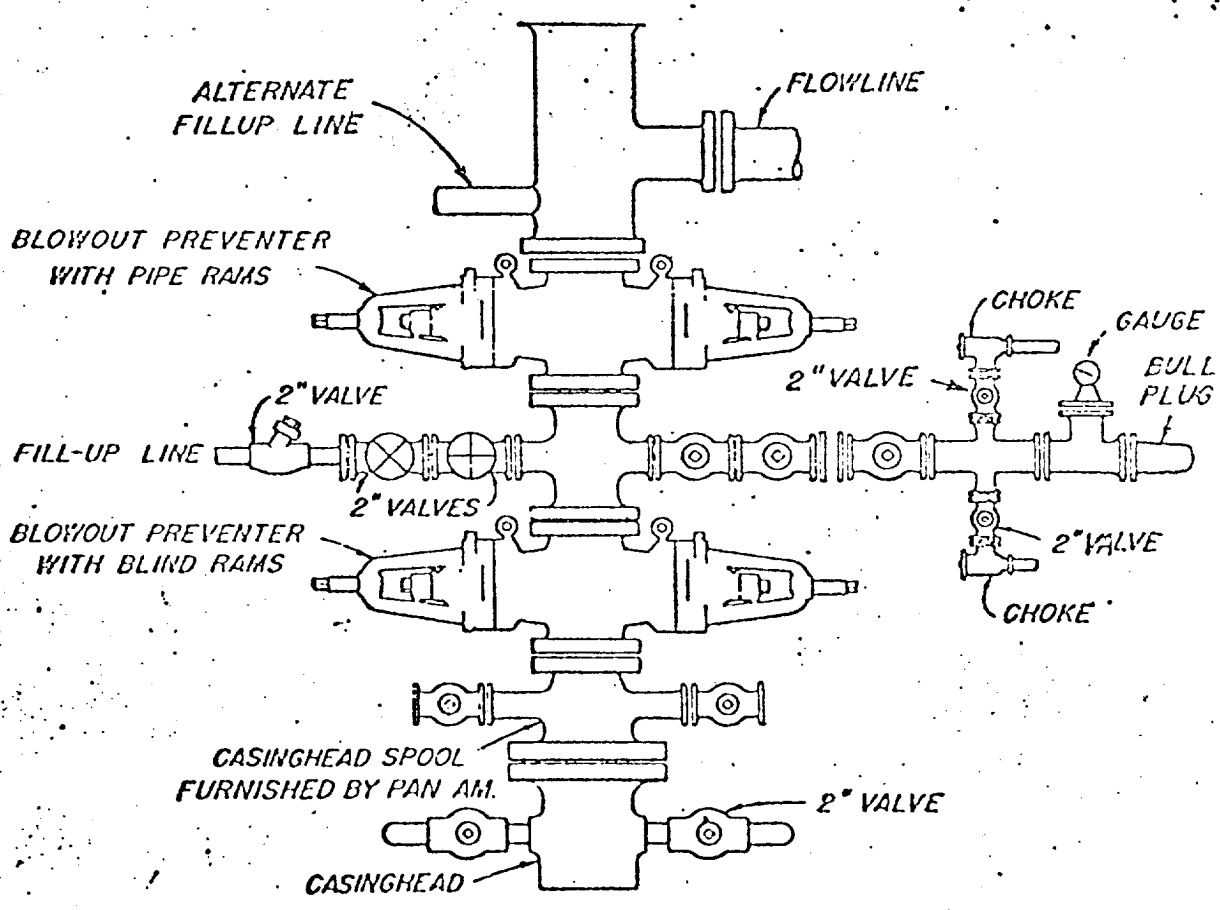
Certificate No. 676

ATTACHMENT "B"

NOTES

1. Blow-out preventers and master valve to be fluid operated and all fittings must be in good condition, 3,000# W.P. (6,000 p.s.i. test), minimum.
2. Equipment through which bit must pass shall be as large as the inside diameter of the casing that is being drilled through.
3. Nipple above blow-out preventer shall be same size as casing being drilled through.
4. Kelly cock required, 3,000# W.P. (6,000 p.s.i. test), minimum.
5. OMSCO or comparable safety valve must be available on rig floor at all times with proper connection or sub, 3,000# W.P. (6,000 p.s.i. test), minimum.
6. Blow-out preventers and master valve while drilling intermediate hole to 6,000' may be 2,000# W.P. (4,000 p.s.i. test), minimum.
7. Choke assembly, beyond second valve from cross, may be positioned (Optional) outside of derrick foundation.
8. Spool or cross may be eliminated if connections are available in the lower part of the blow-out preventer body.
9. Plug valves - gate valves are optional. Valves shown as 2" are minimum size.
10. Casing head and casing head spool, including attached valves, to be furnished by Pan American.
11. Rams in preventers will be installed as follows:

When drilling, use:		When running casing, use:	
Top Preventer	- Drill pipe rams	Top Preventer	- Casing rams
Bottom Preventer	- Blind rams or master valve	Bottom Preventer	- Blind rams or master valve.



BLOWOUT PREVENTER HOOK-UP
PAN AMERICAN PETROLEUM CORP.

EXHIBIT D-1 MODIFIED

JUNE 1, 1962

ACA

AGENCY OF CONSERVATION ARCHAEOLOGY

Eastern New Mexico University

San Juan County Museum Association

4 October 1977

Mr. Ray Cox
Amoco Production Co.
P.O. Drawer A.
Levelland, Texas 79336

Dear Mr. Cox:

Enclosed please find the Agency of Conservation Archaeology's clearance report for your firm. No cultural resources were recorded during this reconnaissance.

Yours sincerely,

J. Loring Haskell

Dr. J. Loring Haskell
Operations Director and
Principal Investigator

ep
Enclosure

RECEIVED
Levelland Area
OCT 1977

	AS
	AAS
	AE
	AF-E
	AF-W
	ARM
	DS
	SE
	AA
	File

Eastern New Mexico University
Portales, New Mexico 88130
(505) 562-3332 or 562-2915

Offices
San Juan County
Arch. Res. Center
Rte. 3, Box 169
Farmington, New Mexico 87401
(505) 632-2733 or 632 2013

233 Chama N.E.
Albuquerque, New Mexico 87108
(505) 268-4090

Archaeological Clearance Report
for
Amoco Production Company

by

Eduardo A. Mimiaga

Submitted by

Dr. J. Loring Haskell
Operations Director and
Principal Investigator
Agency of Conservation Archaeology
Eastern New Mexico University
Portales

3 October 1977

INTRODUCTION

An archaeological reconnaissance was recently completed by the Agency of Conservation Archaeology, Eastern New Mexico University, Portales, for Amoco Production Company in Eddy County, New Mexico. The area will be impacted by the construction of a drill location and access road. This project was completed under Federal Antiquities Permit No. 77-NM-021.

The project was administered by Mr. Ray Cox, representative for Amoco Production Company, and Dr. J. Loring Haskell, Operations Director and Principal Investigator, Agency of Conservation Archaeology, Eastern New Mexico University, Portales.

The reconnaissance was completed by Eduardo A. Mimiaga on 1 October 1977.

SURVEY TECHNIQUE

The archaeologist accomplished the reconnaissance by walking the length and breadth of the proposed access road right-of-way in a zigzag pattern. The drill pad location was walked in a series of 20 ft parallel corridors. These techniques permitted optimal conditions for the examination of areas of primary and secondary impact.

Amoco Fed. "G" Gas Company No. 1

Location

The proposed access road right-of-way is 12 ft wide and extends 600 ft in length, and the drill pad location is 450 x 450 ft. These pass through:

NE$\frac{1}{4}$SE$\frac{1}{4}$, Section 34, T17S, R27E, NMPM, Eddy County, New Mexico (BLM)

Map Reference: USGS Spring Lake Quadrangle, 7.5 Minute Series.

Terrain

Local terrain consists of an undulating plain with sandy soils containing caliche inclusions.

Floristics

The local plant community consists of Larrea tridentata, Gutierrezia sarothrae, Senecio longilobus, Scleropogon brevifolius, and Hilaria mutica.

Cultural Resources

The archaeological reconnaissance of this area revealed no visable signs of cultural resources.

Recommendations

ACA recommends clearance for the proposed access right-of-way and drill location and suggests that construction proceed without modification of existing plans.

Meyers "B" Fed. No. 27

Location

The proposed drill location is 300 x 300 ft and is situated next to an existing access road located in the:

$SW\frac{1}{4}SE\frac{1}{4}$, Section 4, T24S R27E, NMPM, Lea County, New Mexico (BLM)

Map Reference: USGS Jal NW Quadrangle, 7.5 Minute Series.

Terrain

Local terrain consists of a level plain with sandy soils containing caliche inclusions.

Floristics

The local plant community consists of Prosopis juliflora and Bouteloua gracilis.

Cultural Resources

No cultural resources were recorded during this reconnaissance.

Recommendations

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

Amoco Fed. "F" Gas Com. No. 1

Location

The proposed drill location is 450 x 450 ft and is situated next to an existing access road located in the:

$SW\frac{1}{4}NE\frac{1}{4}$, Section 3, T18S, R22E, NMPM, Eddy County, New Mexico (BLM)

Map Reference: USGS Spring Lake Quadrangle, 7.5 Minute Series.

Terrain

The local terrain consists of an undulating plain with sandy soils containing caliche inclusions.

Floristics

The local plant community consists of Larrea tridentata, Gutierrezia sarothrae, Scleropogon brevifolius and Tridens pulchellus.

Cultural Resources

No cultural resources were recorded during this reconnaissance.

Recommendations

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

Meyers "B" Fed. No. 26

Locations

The proposed drill location is 300 x 300 ft and the access road measures 12 ft in width and extends 108 ft through:

$NE\frac{1}{4}SE\frac{1}{4}$, Section 9, T24S, R37E, NMPM, Lea County, New Mexico (BLM).

Map Reference: USGS Jal NW Quadrangle, 7.5 Minute Series

Terrain

Local terrain consists of a level plain with thin sandy soils containing caliche inclusions.

Floristics

The local plant community consists of Prosopis juliflora, Gutierrezia sarothrae, and Bouteloua gracilis.

Cultural Resources

No cultural resources were recorded during this reconnaissance.

Recommendations

No cultural resources were recorded during this reconnaissance.

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

Myers B Federal Well No. 27, Unit O, 990' FSL x 1,980' FEL, 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.

   Unknown

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.

Yates	2,670'
Seven Rivers	2,940

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

Seven Rivers	2,940'

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

Depth	Size	Weight	Grade	New or Used
1,200'	8 5/8"	24#	K-55 ST&C	New
3,150'	5 ½"	14-15.5#	K-55 ST&C	New

9. Proposed cementing program.

   8 5/8" Casing - Sufficient cement to circulate to surface.
   5 ½" Casing - Sufficient cement to circulate to surface.

10. Blow Out 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' - 1,200' - Native mud x fresh water
1,200' - 3,150' - 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.

Surf - TD - Gamma Ray
1,200' - 3,150' - GR-CNL-FDC
1,200' - 3,150' - Dual Laterolog - Micro SFL

13. Any anticipated abnormal pressures 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 November 30, 1977. Complete December 7, 1977.

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 WELL NO. 27

LOCATION Unit O, 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. Gary Jones, personally contacted Mrs. B.J. Doom, the owner/~~xxxxxx~~ 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 levelled 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.

Ray Cox

Ray W. Cox -E-
Administrative Assistant

10-28-77
DATE

Proposed Development Plan for Surface Use

Amoco Production Company's Myers B Federal Well No. 27, Unit O, 990' FSL x 1,980' FEL, 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 to Jal Cooper Cemetery turnoff. Turn east on caliche road and go 2 miles. Turn north and go 1.5 miles. Turn west at fork in road and go approximately 9/10 mile to location. See Exhibit B.

2. Planned access roads.

   No new roads will be built as existing caliche road runs adjacent to the drilling location.

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 southeast end of the drilling pad. See Exhibit D.

5. Location and type of water supply.

   Fresh water will be hauled from a water well on the Doom Ranch. Brine water will be hauled from Eunice.

6. Source of construction materials.

   Caliche will be obtained from an existing pit ½ miles northeast of the wellsite. 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. 300' square area around wellsite has been cleared by archeologist.
e. See Exhibit D.

10. RESTORATION OF SURFACE -

Producing Well - all pits will be cut, filled, and levelled 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 - deep loamy sands.
c. Vegetation - sparse - catclaw and greasewood and mesquite.
d. Surface Use - grazing.
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, Drilling Superintendent
P. O. Drawer A
Levelland, Texas 79336
Office Phone: 806-894-3163

LEASE & WELL NUMBER Myers B Federal Well No. 27

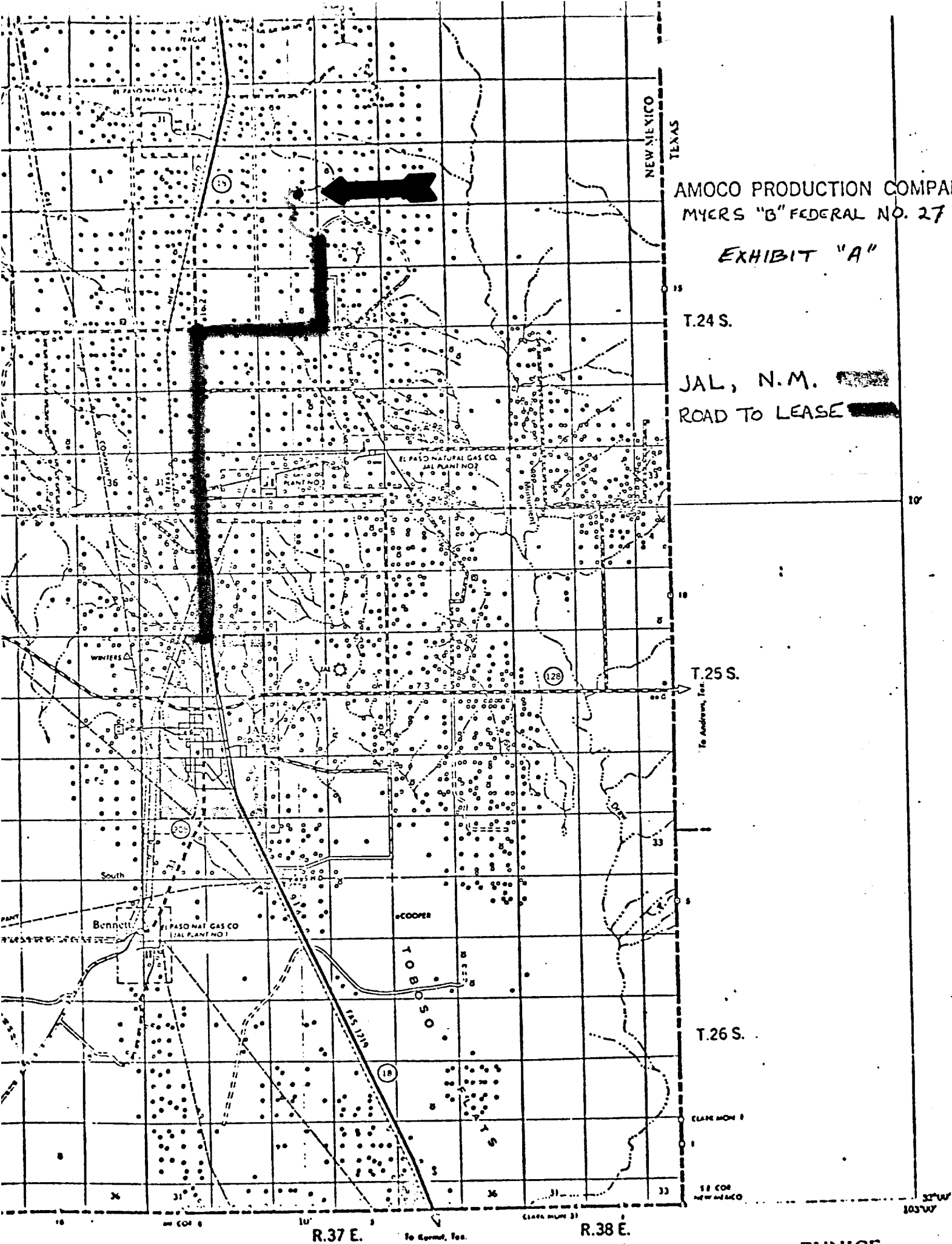
LOCATION Unit O, 990 ' FSL X 1980 ' FEL, Sec. 4 , T-24-S, R-37-E, Lea County

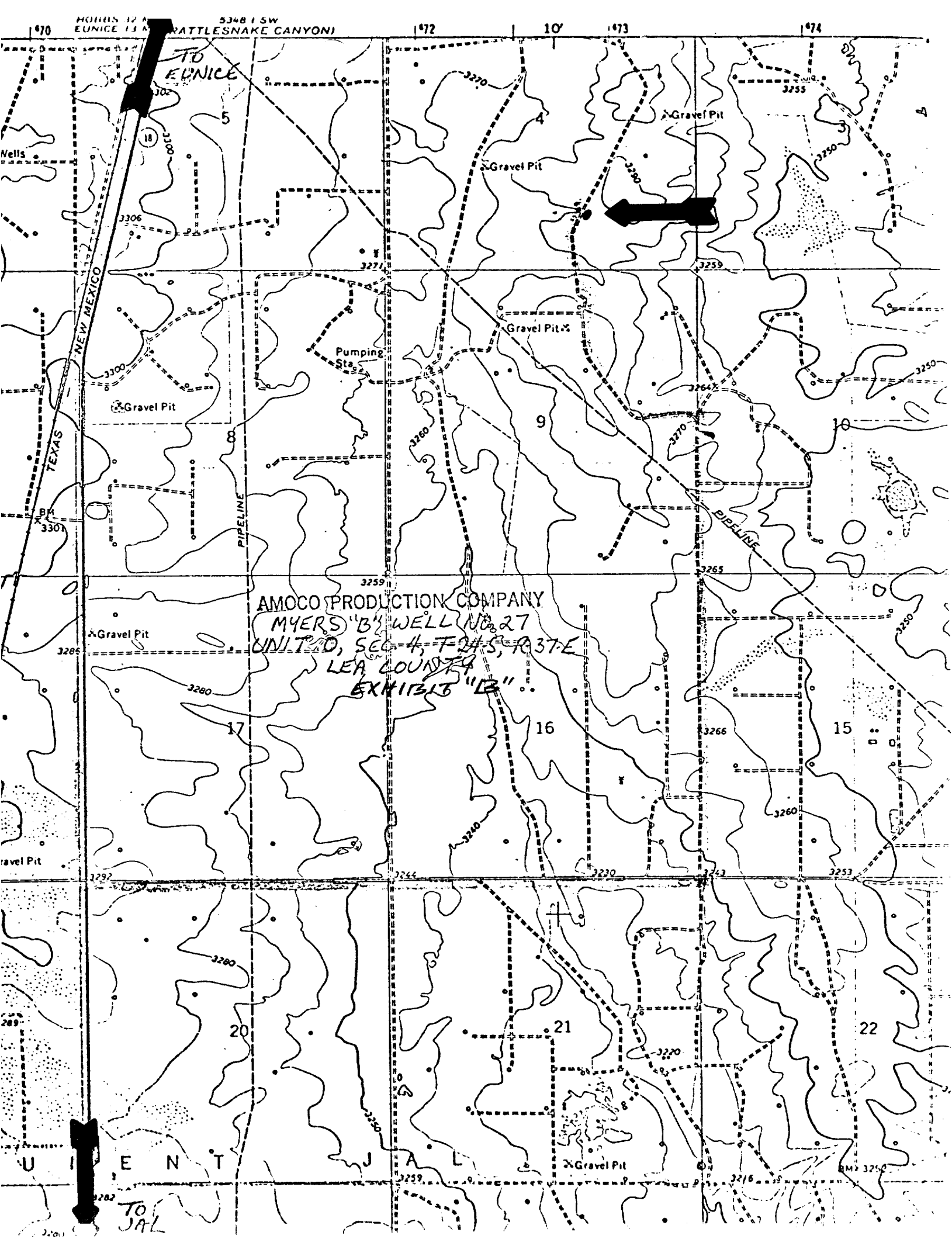
Certification: The following statement is to be incorporated in the plan and must be signed by the lessee's or operator's field representative who is identified in Item No. 12 of the plan.

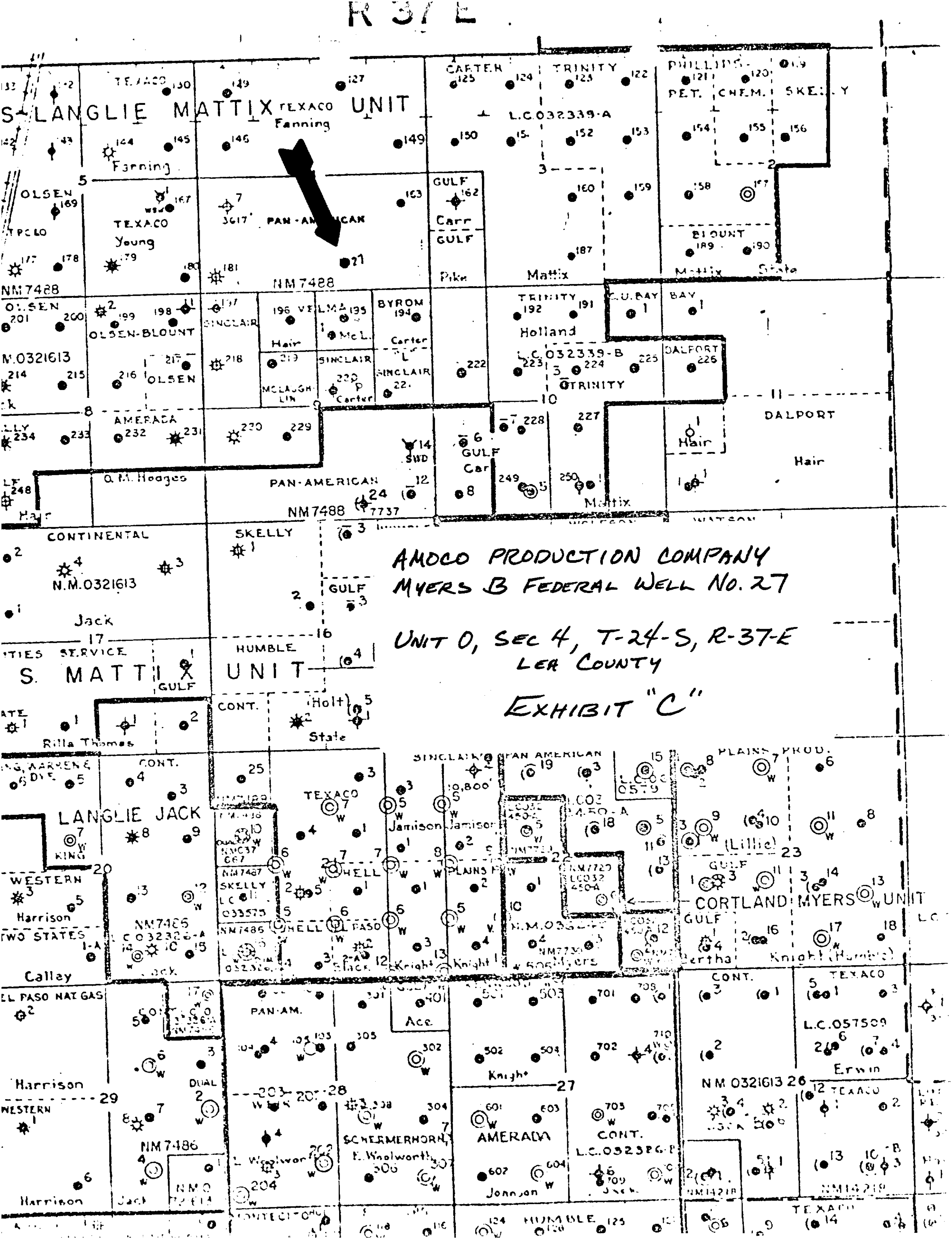
I hereby certify that I, or persons under my direct supervision have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated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

10/12/77
DATE

[signature]
NAME AND TITLE Sr. Drlg. Foreman


AMOCO PRODUCTION COMPANY
MYERS "B" FEDERAL NO. 27
EXHIBIT "A"
T.24 S.
JAL, N.M.
ROAD TO LEASE
T.25 S.
T.26 S.
R.37 E.
R.38 E.
NEW MEXICO
TEXAS
JAL
EL PASO NATURAL GAS CO
JAL PLANT NO 2
EL PASO NAT GAS CO
JAL PLANT NO 1
COOPER
TOBOSO
FLATS
South
Bennett
WINTERS
1 Inch = 2 Miles
EUNICE
QUADRANGLE


AMOCO PRODUCTION COMPANY
MYERS "B" WELL No. 27
UNIT D, SEC. 4, T-24-S, R-37-E
LEA COUNTY
EXHIBIT "B"
TO EUNICE
TO JAL
NEW MEXICO
TEXAS
PIPELINE
PIPELINE
Pumping Sta.
Gravel Pit
Gravel Pit
Gravel Pit
Gravel Pit
Gravel Pit
Gravel Pit
Wells
BM 3301
BATTLESNAKE CANYON
EUNICE 13 MI.
HOBBS 32 MI.
5348 I SW
670
672
673
674
10'


R 37 E
LANGLIE MATTIX UNIT
TEXACO
Fanning
CARTER
TRINITY
PHILLIPS PET.
CHEM.
SKELLY
L.C.032339-A
OLSEN
TEXACO
Young
PAN-AMERICAN
GULF
Carr
Pike
Mattix
BLOUNT
NM7488
OLSEN-BLOUNT
SINCLAIR
BYROM
Carter
Hair
McLAUGHLIN
TRINITY
Holland
L.C.032339-B
C.U. BAY
BAY
DALPORT
AMERADA
O. M. Hodges
PAN-AMERICAN
NM7488
CONTINENTAL
SKELLY
N.M.0321613
Jack
HUMBLE
S. MATTIX UNIT
CITIES SERVICE
GULF
CONT.
State
Rilla Thomas
AMOCO PRODUCTION COMPANY
MYERS B FEDERAL WELL NO. 27
UNIT O, SEC 4, T-24-S, R-37-E
LEA COUNTY
EXHIBIT "C"
LANGLIE JACK
KING
WESTERN
Harrison
TWO STATES
Calley
TEXACO
SHELL
Jamison
PLAINS PROD.
CORTLAND MYERS UNIT
(Lillie)
EL PASO
Knight
Knight (Humble)
EL PASO NAT GAS
PAN-AM.
Ace
NM 0321613
Erwin
L.C.057509
NM7486
SCHERMERHORN
E. Woolworth
L. Woolworth
AMERADA
CONT.
Johnson
HUMBLE
TEXACO

Amoco Production Company

ENGINEERING CHART

FILE

APPN

DATE 10-29-76

BY RC

SUBJECT DRILL SITE DIMENSION

SHALLOW WELLS (LESS THAN 7500')

SCALE - 1" = 60'

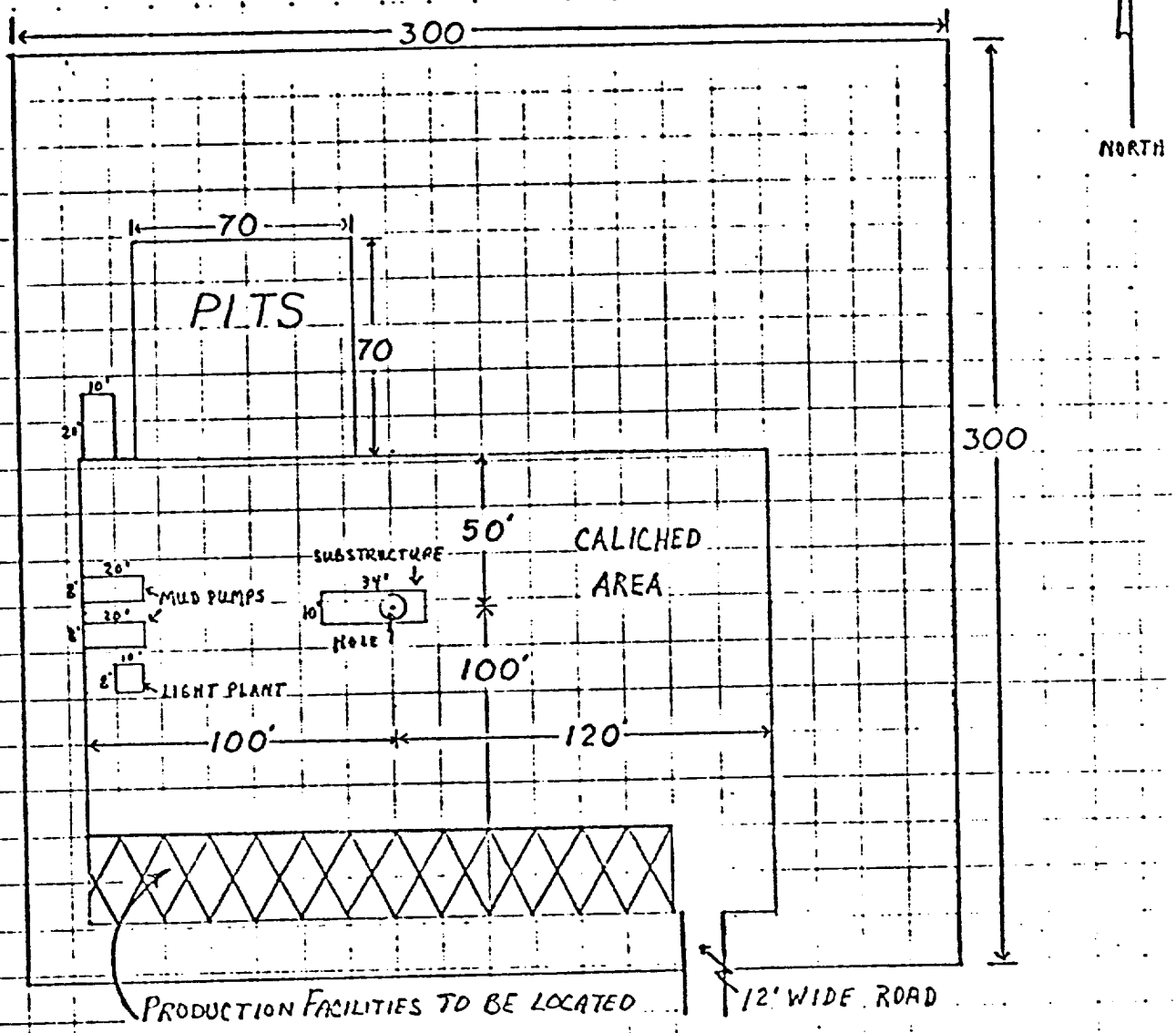


EXHIBIT "D"

CELLAR SIZE

5'X5'X4'

U. S. Geological Survey

HOBBS DISTRICT

Amoco Production Co.
No. 27 Myers "B" Federal
SW¼SE¼ sec. 4-24S-37E
Lea County, N. M.

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.