

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-12H
Effective 1-1-65

All distances must be from the outer boundaries of the Section

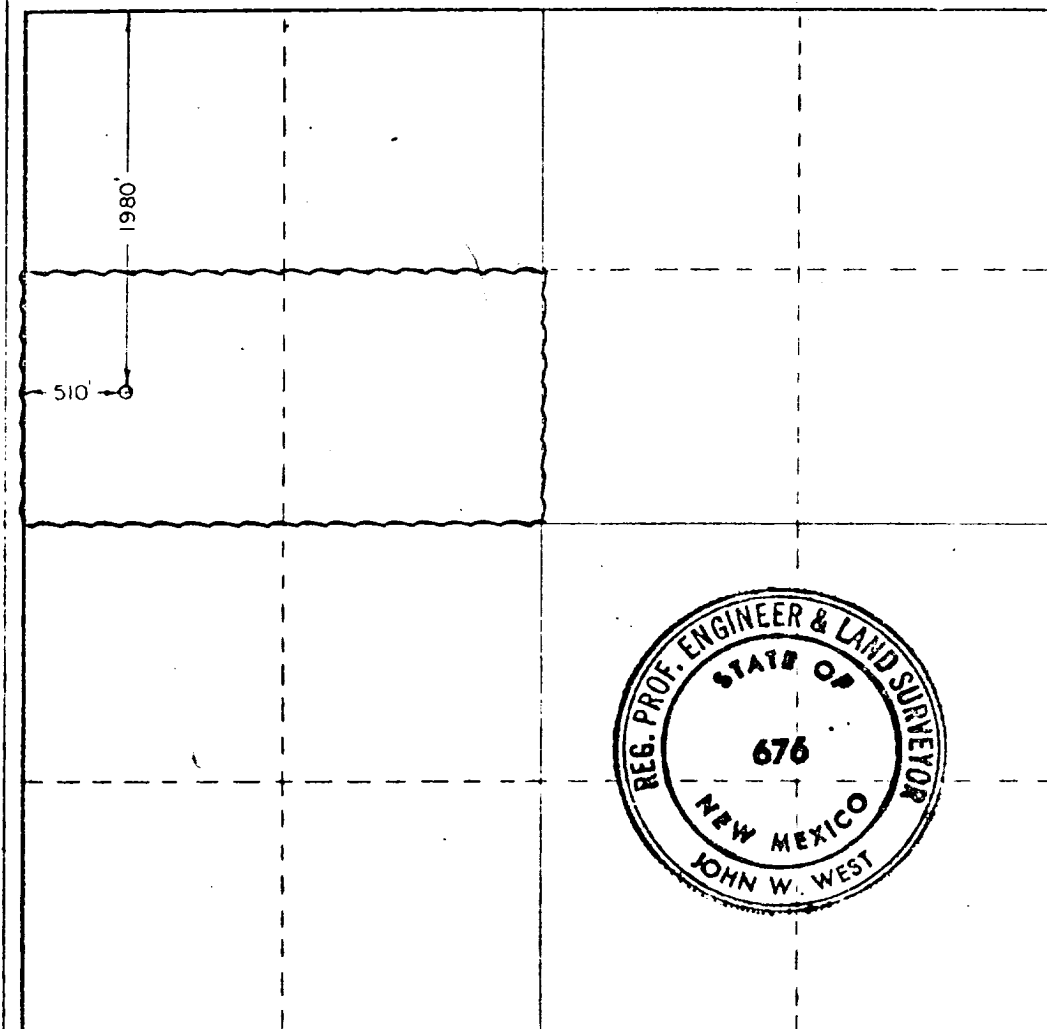
Operator Amoco Production Co.			Lease Gillully "B" Fed.		Well No. 21
Tract Letter E	Section 22	Township 20 South	Range 37 East	County Lea	
Actual Footage Location of Well:					
1980	feet from the	North	line and	510	feet from the West line
Ground Level Elev. 3515.3	Producing Formation TUBB		Pool MONUMENT	Dedicated Acreage 80 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

[Signature]
Administrative Analyst (SG)

Amoco Production Company

4-20-78

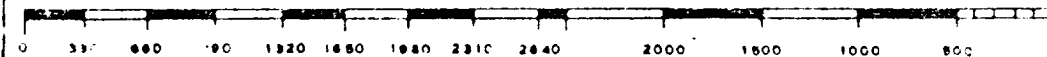
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief

Date Surveyed
4/15/78

Registered Professional Engineer and/or Land Surveyor

[Signature]

Certificate No. **John W. West 676**
Ronald J. Eidson 3239

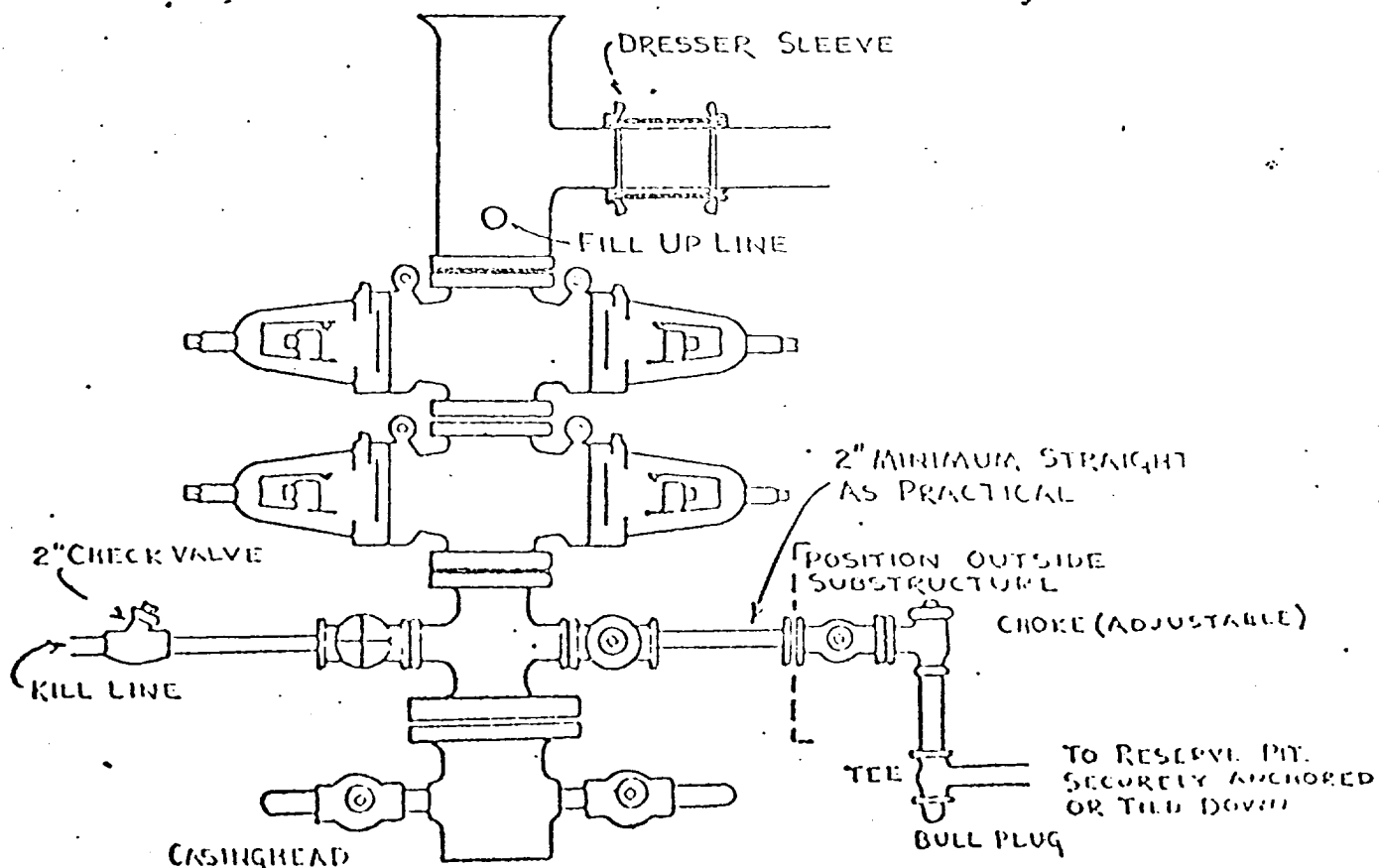


1. BLOW-OUT PREVENTERS MAY BE MANUAL OPERATED.
2. ALL EQUIPMENT MUST BE IN GOOD CONDITION, 2,000 PSI W.P. (4,000 PSI TEST) MINIMUM.
3. WELL RIFPLE ABOVE BLOW-OUT PREVENTER SHALL BE SAME SIZE AS CASING BEING DRILLED THROUGH.
4. KELLY COCK TO BE INSTALLED ON KELLY.
5. FULL OPENING SAFETY VALVE 2,000 PSI 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

*AMCOO 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.



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

Gillully "B" Federal Well No: 21, 1980' FNL x 510' FWL, Section 22,
T-20-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.

Quaternary

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 - 1150'

Queen - 3370'

Paddock - 5020'

Tubb - 6290'

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

Queen - 3370'

Paddock - 5020'

Tubb - 6290'

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	New
6700'	5-1/2"	14#	K-55	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.

Surface to 1200' - Native mud and fresh water.

1200' - 6700' TD - 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.

Surface to TD - Gamma Ray

1200' - 3750' GR-CNL-FDC-Caliper.

1200' - 3750' - 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 May 30, 1978. Complete June 15, 1978.

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 Gillully "B" Federal WELL NO. 21

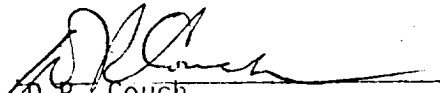
LOCATION Unit E, Section 22, T-20-S, R-37-E

POOL Monument-Tubb

COUNTY Lea State New Mexico

The undersigned hereby states that Amoco's representative, Mr. E.E. Pauley, personally contacted W.T. Stradley (SW Cattle Co), the owner/lessee 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 Analyst (SG)

5-4-78
Date

Proposed Development Plan for Surface Use

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

Detailed map showing drillsite location in relation to nearest town and all existing roads within one mile of the wellsite are shown on Exhibit A. From Monument, N.M., go south on paved road 4 miles, turn east at cattleguard on dirt lease road .7 mile, turn south on existing road 1/4 mile; and 470' new road east to wellsite.

2. Planned access roads.

470' new road - caliche to existing road east of Well No. 21
1170' new road - caliched to Well No. 20 west of Well No. 21

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 producing facilities (i.e. tanks, separators, and treaters) will be into existing tank battery.

5. Location and type of water supply.

Water to be hauled from 3 miles south of Monument, N.M.

6. Source of construction materials.

Caliche will be obtained from an existing pit located 1/4 mile NE of the well location: NW/4 NW/4 Section 22, T-20-S, R-37-E. <SEE ATTACHMENT "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 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 & water erosion.
- b. Soil - Deep loamy sands.
- c. Vegetation - Sparse, catclaw, greasewood, sage & Shinoak.
- 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 area.

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 Gillully B Federal Well No. 21.

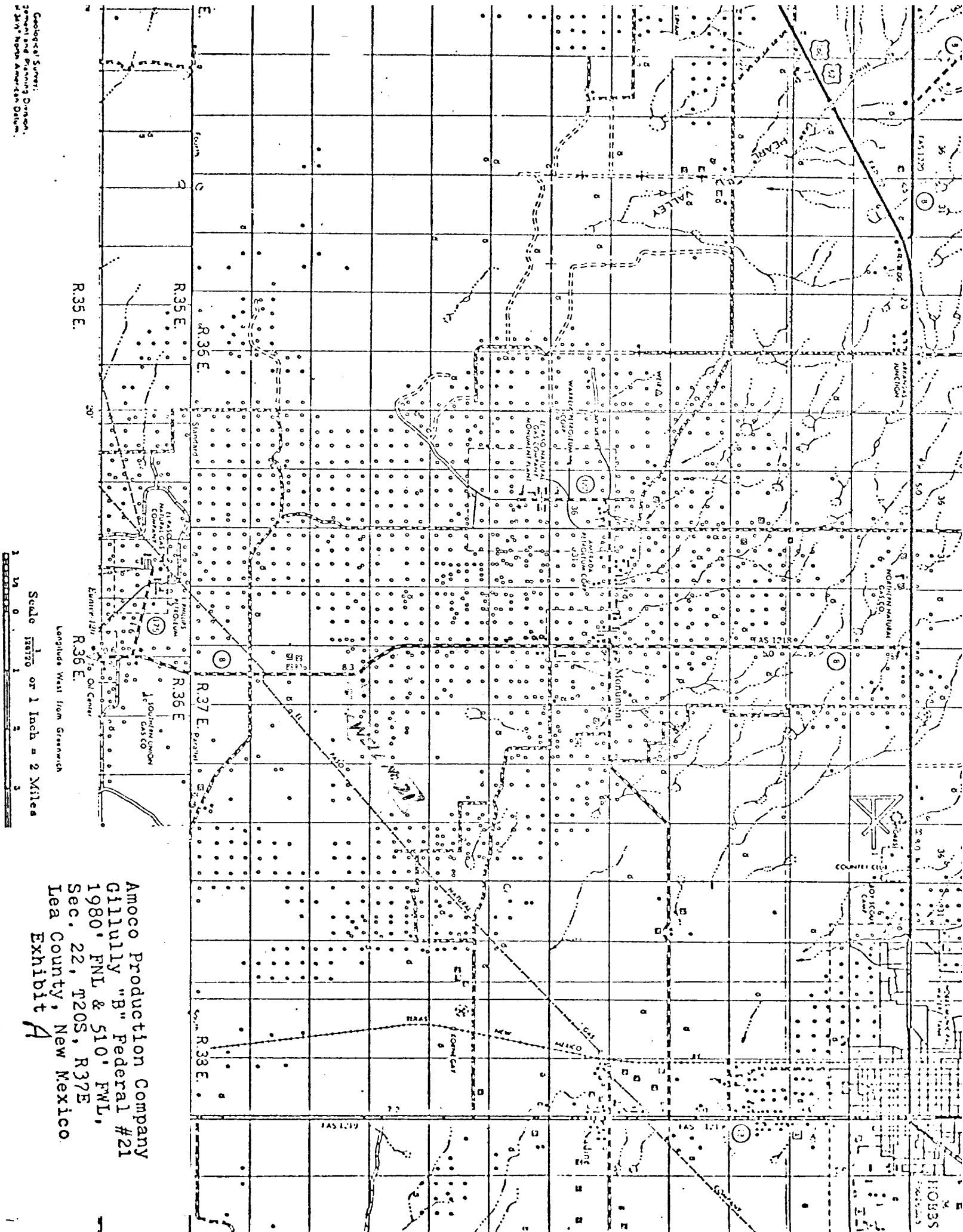
LOCATION E Unit, 1980" FNL X 510 ' FWL, Sec. 22, T-20-S, R-37-E, Lea County

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.

5-4-78
DATE

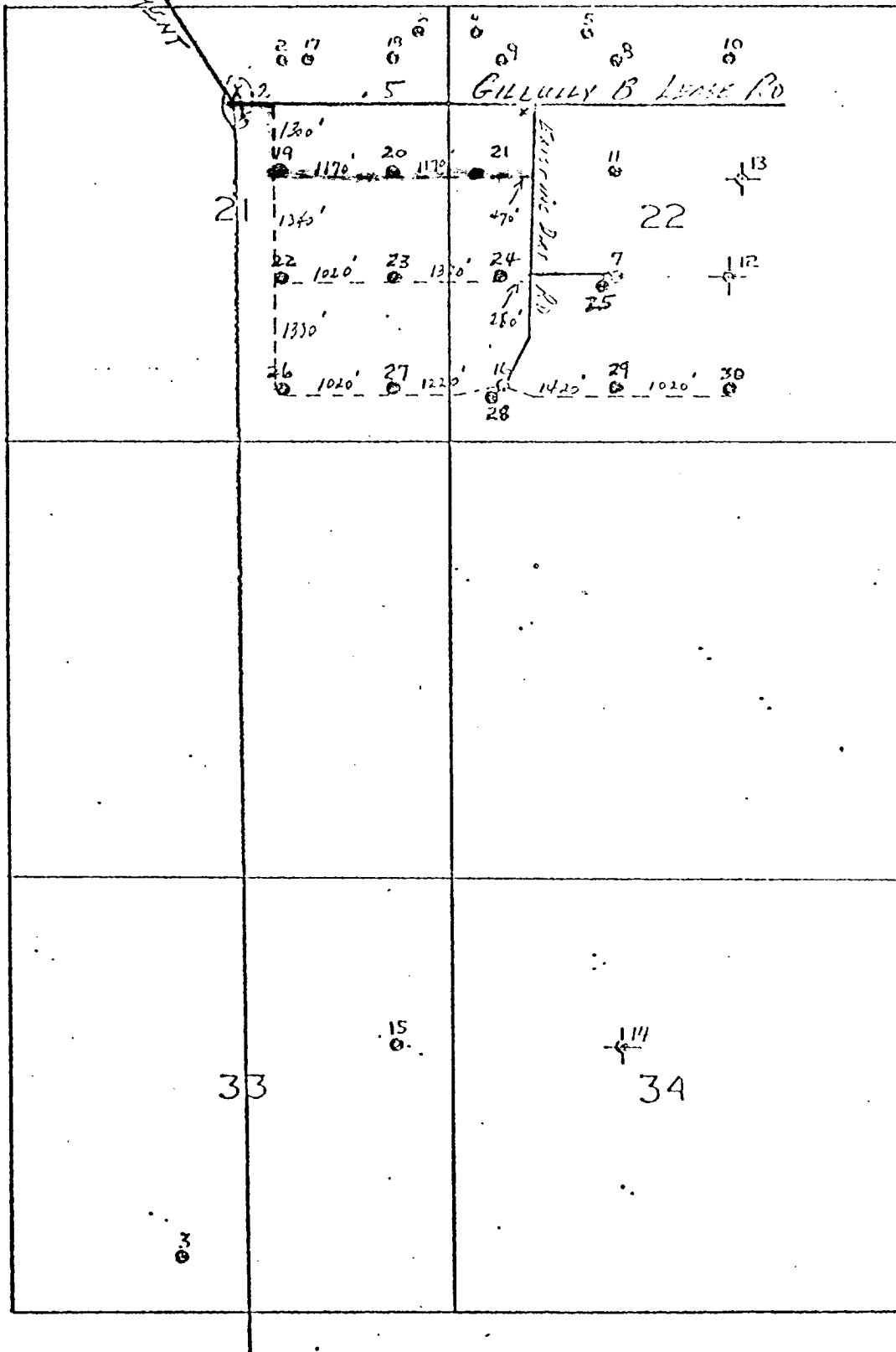
J. H. Hamlin Sr. Drlg. Foreman
NAME AND TITLE



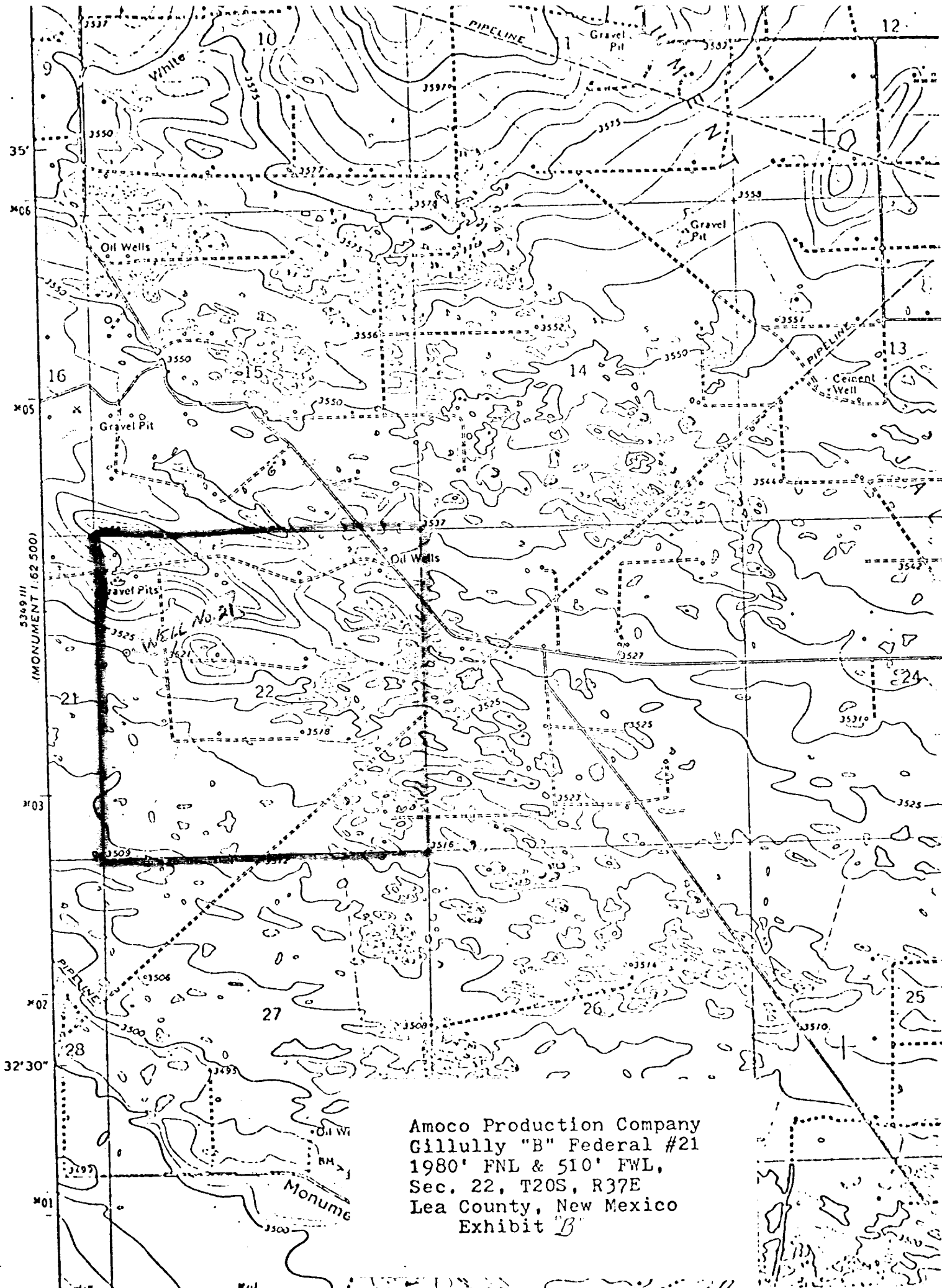
Amoco Production Company
Gilluly "B" Federal #21
1980 FNL & 510 FNL,
Sec. 22, T20S, R37E
Lea County, New Mexico
Exhibit A

8 MILES
TO MONUMENT

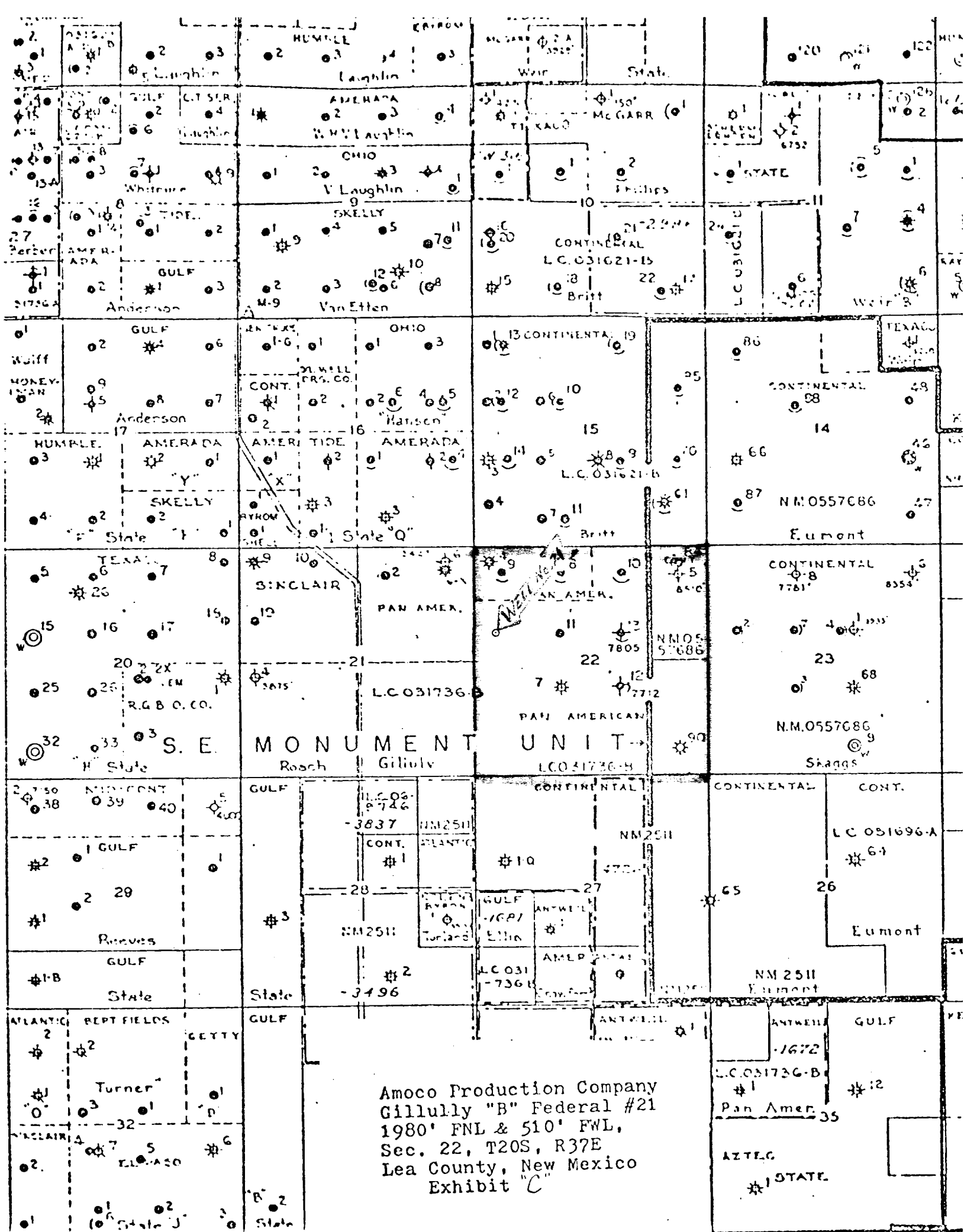
DOTTED LINES ARE PROPOSED
LOCATION ROADS



Gillully "B" Fed. LEASE WELLS #19-30



Amoco Production Company
Gillully "B" Federal #21
1980' FNL & 510' FWL,
Sec. 22, T20S, R37E
Lea County, New Mexico
Exhibit B





Amoco Production Company

ENGINEERING CHART

SUBJECT DRILL SITE DIMENSION

SHEET NO.

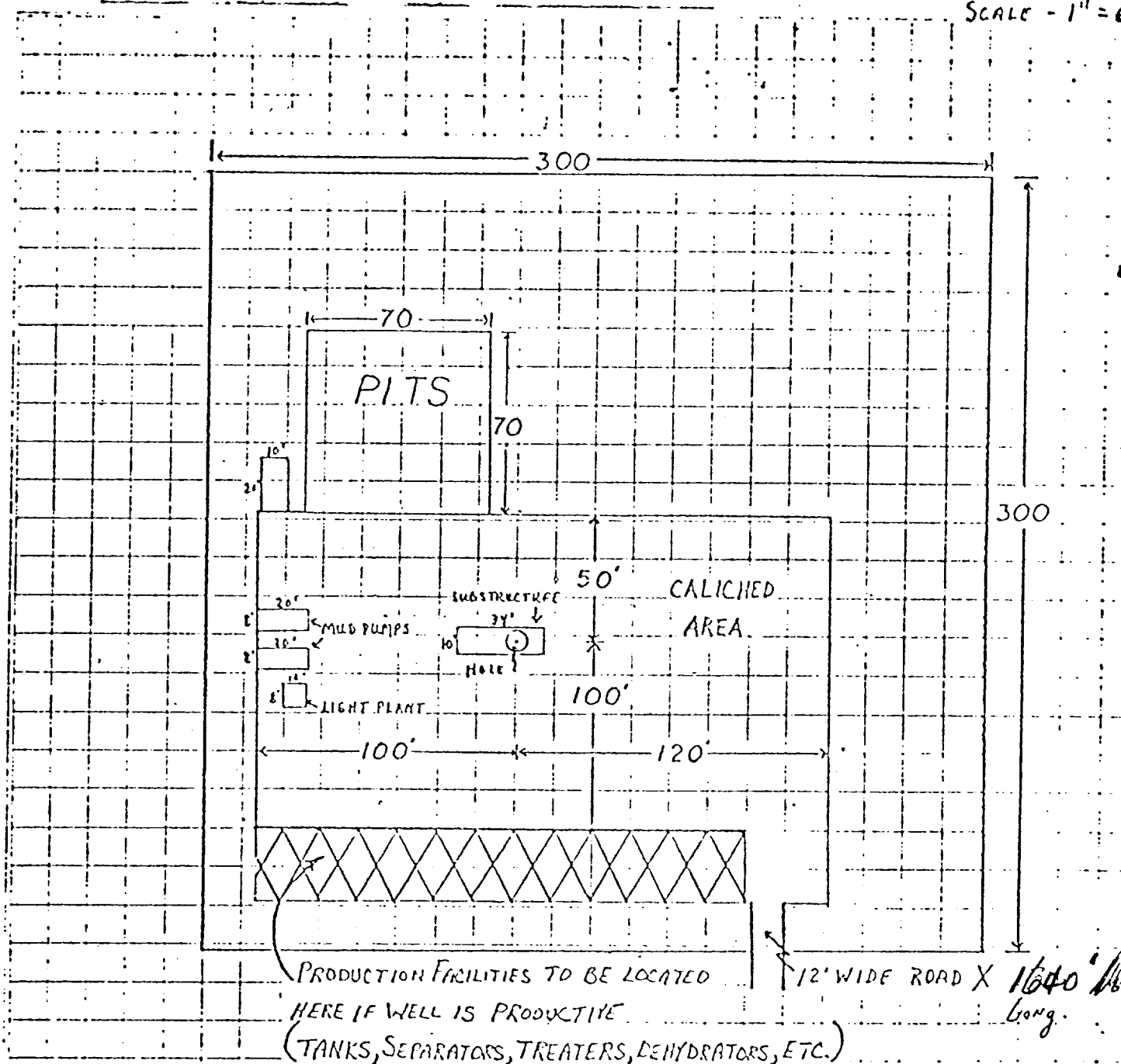
FILE

APPN

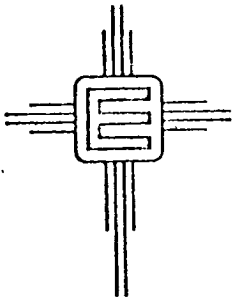
DATE 10-29-76

BY RL

SCALE - 1" = 6'



AMOCO PRODUCTION COMPANY
GILGULLY "B" FEDERAL WELL # 21
SEC. 22 T-20-S, R-37-E
LEA Co., N.M.
EXHIBIT "D"



3 May 1978

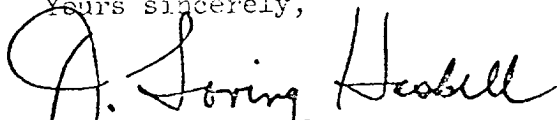
Mr. Bob Couch
Amoco Production Company
P. O. Drawer A
Levelland, Texas 79336

Dear Mr. Couch:

Enclosed please find the Agency for Conservation Archaeology's clearance report for Amoco Production Company. Other than contemporary trash, no archaeological sites, or isolated manifestations, were recorded 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 Report

Amoco Production Company

Gillully "B" Federal # 19
Gillully "B" Federal # 20
Gillully "B" Federal # 21
Gillully "B" Federal # 22
Gillully "B" Federal # 23
Gillully "B" Federal # 24
Gillully "B" Federal # 25
Gillully "B" Federal # 26
Gillully "B" Federal # 27
Gillully "B" Federal # 28
Gillully "B" Federal # 29
Gillully "B" Federal # 30

And Proposed accesses to these locations
Langlie B Tract 1 Federal #6

by

Dr. J. Loring Haskell

Submitted

by

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

1 May 1978

INTRODUCTION

An archaeological reconnaissance was recently performed by the Agency for Conservation Archaeology (ACA), Eastern New Mexico University, Portales, for Amoco Production Company in Lea County, New Mexico. Reconnoitered areas will be impacted by a series of drill locations and access roads. The project was administered for Amoco by Mr. Bob Couch and for ACA by Dr. J. Loring Haskell, Director - Principal Investigator. Dr. Haskell and Scott C. Schermer undertook the project on 26 April 1978 under excellent field and weather conditions. (78-NM-015)

SURVEY TECHNIQUE

Each location was walked in a series of zigzag, north-south and thence south to north transects which measured 15 ft in breadth. Areas lying immediately outside these locations were reconnoitered as well, i.e., a zone measuring an additional 20 ft on all sides. Accesses were investigated by walking them in a close interval, 25 ft wide, zigzag transect. These techniques combined served to maximize the visual examination of areas of primary and secondary impact.

Gillully "B" Federal #19

Location

The proposed pad measures 300 X 300 ft and is situated 1980 ft from the north line and 1980 ft from the east line of the:

NE $\frac{1}{4}$, Section 21, T20S, R37E, NMPM, Lea County, New Mexico (BLM)

More specifically, it is situated in the:

SE $\frac{1}{4}$ NE $\frac{1}{4}$, Section 21, T20S, R37E, NMPM, Lea County, New Mexico (BLM)

The associated access will be discussed below.

Map Reference: USGS Monument Quadrangle, 15 Minute Series, 1963.

Terrain

Local terrain consists of a level plain overlain by stabilized coppice dunes. Soils are Typic Haplargids and contain little or no inclusions.

Floristics

Principal plants in the area include Quercus havardii, Bouteloua eriopoda, Artemisia filifolia, Gutierrezia sarothrae, and Yucca glauca. Quercus is dominant throughout the area.

Cultural Resources

No archaeological sites, or isolated manifestations, were recorded during ACA's reconnaissance.

Recommendations

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

Gillully "B" Federal #20

Location

This location measures 300 X 300 ft and is situated 1930 ft from the north line and 760 ft from the east line of the:

NE $\frac{1}{4}$, Section 21, T20S, R37E, NMPM, Lea County, New Mexico (BLM)

More specifically, it is located in the:

SE $\frac{1}{4}$ NE $\frac{1}{4}$, Section 21, T20S, R37E, NMPM, Lea County, New Mexico (BLM)

The associated access will be discussed below.

Map Reference: USGS Hobbs SW Quadrangle, 7.5 Minute Series, 1969.

Terrain

Local terrain consists of a virtually level plain distinguished by low coppice

dunes. Soils are Typic Haplargids and notable for their few inclusions.

Floristics

The local plant community is dominated by Quercus havardii. In addition, Artemisia filifolia, Gutierrezia sarothrae, and Yucca glauca occur in the area. Graminae is represented by several unidentified grasses.

Cultural Resources

No cultural resources were recorded during the course of this reconnaissance.

Recommendations

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

Gillully "B" Federal #21

Location

This location measures 300 X 300 ft and is situated 1980 ft from the north line and 510 ft from the west line of the:

NW $\frac{1}{4}$, Section 22, T20S, R37E, NMPM, Lea County, New Mexico (BLM)

More specifically, it is situated in the:

SW $\frac{1}{4}$ NW $\frac{1}{4}$, Section 22, T20S, R37E, NMPM, Lea County, New Mexico (BLM)

The associated access will be discussed below.

Map Reference: USGS Hobbs SW Quadrangle, 7.5 Minute Series, 1969.

Terrain

Local terrain is marked by an essentially flat plain which is slightly deflated. Larger deflation basins do occur west of the pad. Caliche cobbles, generally less than 5 cm, are found throughout the area. Soils are brown (10YR 5/3 dry) and tend to be dominated by the clay and sand separates.

Floristics

Locally, Quercus havardii is dominant with sporadic occurrences of Yucca glauca, Prosopis juliflora, Artemisia filifolia, and Senecio longilobus. Graminae is represented by Tridens pulchellus, and Aristida sp. Distichlis stricta also occurs throughout the area.

Cultural Resources

Excepting contemporary trash, no archaeological sites, or isolated manifestations, were recorded during ACA's reconnaissance.

Recommendations

ACA recommends clearance for the proposed location and suggests that construction proceed with modification of existing plans.

Gillully "B" Federal # 22

Location

This pad measures 300 x 300 ft and is situated 1830 ft from the east line and 1980 ft from the south line of the:

SE $\frac{1}{4}$, Section 21, T20S, R37E, NNPM, Lea County, New Mexico (BLM)

More specifically, it is situated in the:

NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 21, T20S, R37E, NNPM, Lea County, New Mexico (BLM)

The associated access will be discussed below.

Map Reference: USGS Monument Quadrangle, 15 Minute Series, 1963.

Terrain

Local terrain consists of a flat plain marked by stabilized coppice dunes. Within the investigated area, dunes reach 1 to 1.75 m in height. Soils are Typic Haplargids and Typic Torripsamments.

U. S. Geological Survey

HOBBS DISTRICT

Amoco Production Co.
No. 21 Gilly B Federal
SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 22-20S-37E
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.