

UNITED STATES
DEPARTMENT OF THE INTERIOR
NM OIL CONS. COMMISSIONDrawer DD
Artesia, NM 88210

GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.

NM-18969

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

K-M Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

X Wildeat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

ut-K

Sec. 11, T. 5S, R-27E

12. COUNTY OR PARISH

Chaves

13. STATE

N.M.

17. NO. OF ACRES ASSIGNED TO THIS WELL

320

20. ROTARY OR CABLE TOOLS

Rotary

22. APPROX. DATE WORK WILL START*

April 20, 1982

U.S. DEPARTMENT OF THE INTERIOR

C/SF
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

Harper Oil Company

3. ADDRESS OF OPERATOR

904 Hightower Bldg. Oklahoma City, Okla. 73102

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

At surface

2310' FSL & 1880' FWL

At proposed prod. zone Same

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

13 miles north of Elkins, N.M.

O.C.D.
ARTESIA, OFFICE

15. DISTANCE FROM PROPOSED*

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

1880' FWL

16. NO. OF ACRES IN LEASE

2528.26

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

N/A

19. PROPOSED DEPTH

7500'

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

3992.8' GR

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	48#	350	350 SX CIRCULATE
12 1/4	8 5/8	24#	1750	950 SX
7 7/8	5 1/2	15.5 & 17#	T.D.	625 SX

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. SIGNED Jerry W. Franklin TITLE Agent-Harper Oil DATE 4/12/82

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

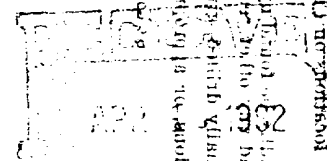
(O.C.D.) GEORGE H. STEWART

APR 14 1982

FOR

JAMES A. GILHAM
DISTRICT SUPERVISOR

*See Instructions On Reverse Side



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

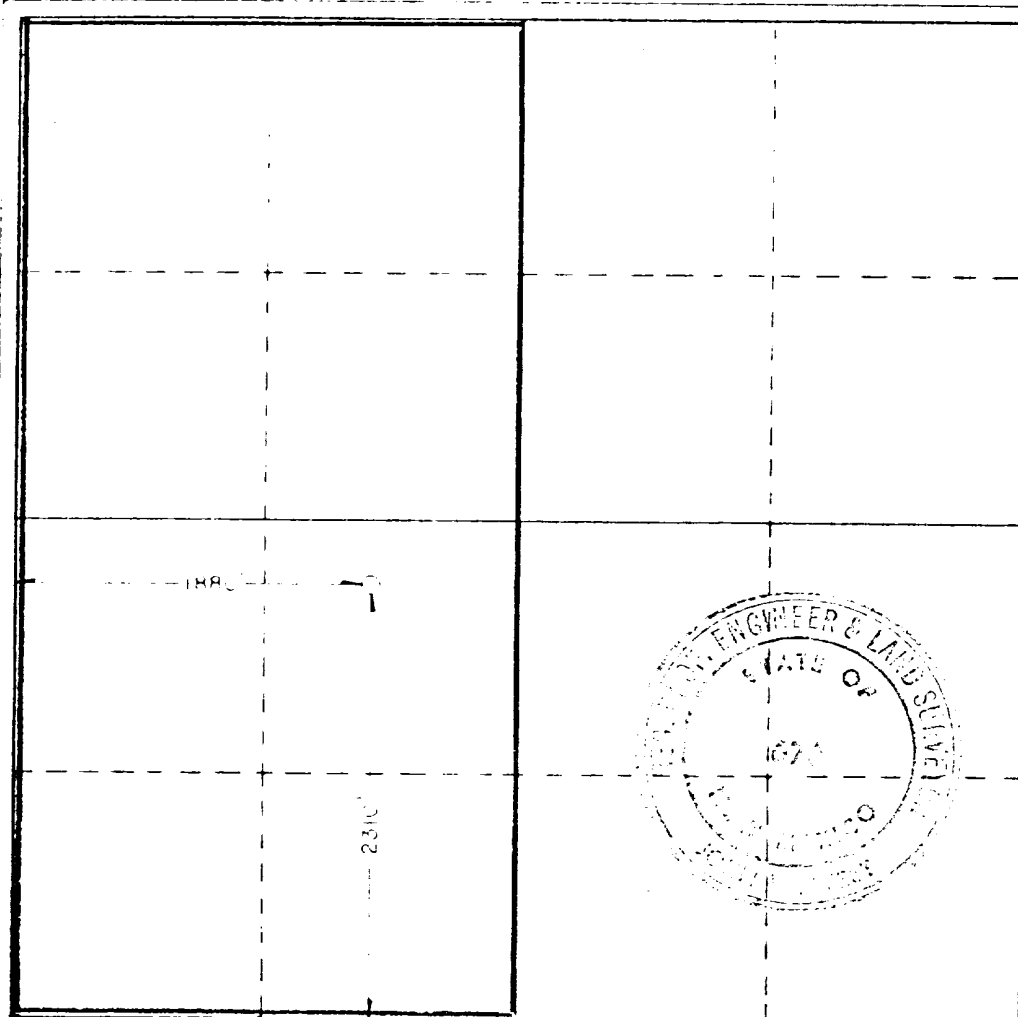
Harper Oil Company			K-M Federal			Well No. 1		
K	11	5 South	27 East	Chaves				
2310	south		1880	feet from the west		line		
3992.8'	Strawn		WILDCAT		Dedicated Acreage:		320 Acres	

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.) _____

Allowable well be assigned to the well until all interests have been consolidated (by communitization, unitization, force-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 Terry W. Franklin

Position
AGENT

Company
HARPER OIL COMPANY

Date
4/12/82

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
4-9-82

Registered Professional Engineer
and/or Land Surveyor

Charles W. West

Certificate No. JOHN W. WEST 676
PATRICK A. ROMERO 6663
Ronald J. Eidson 3239

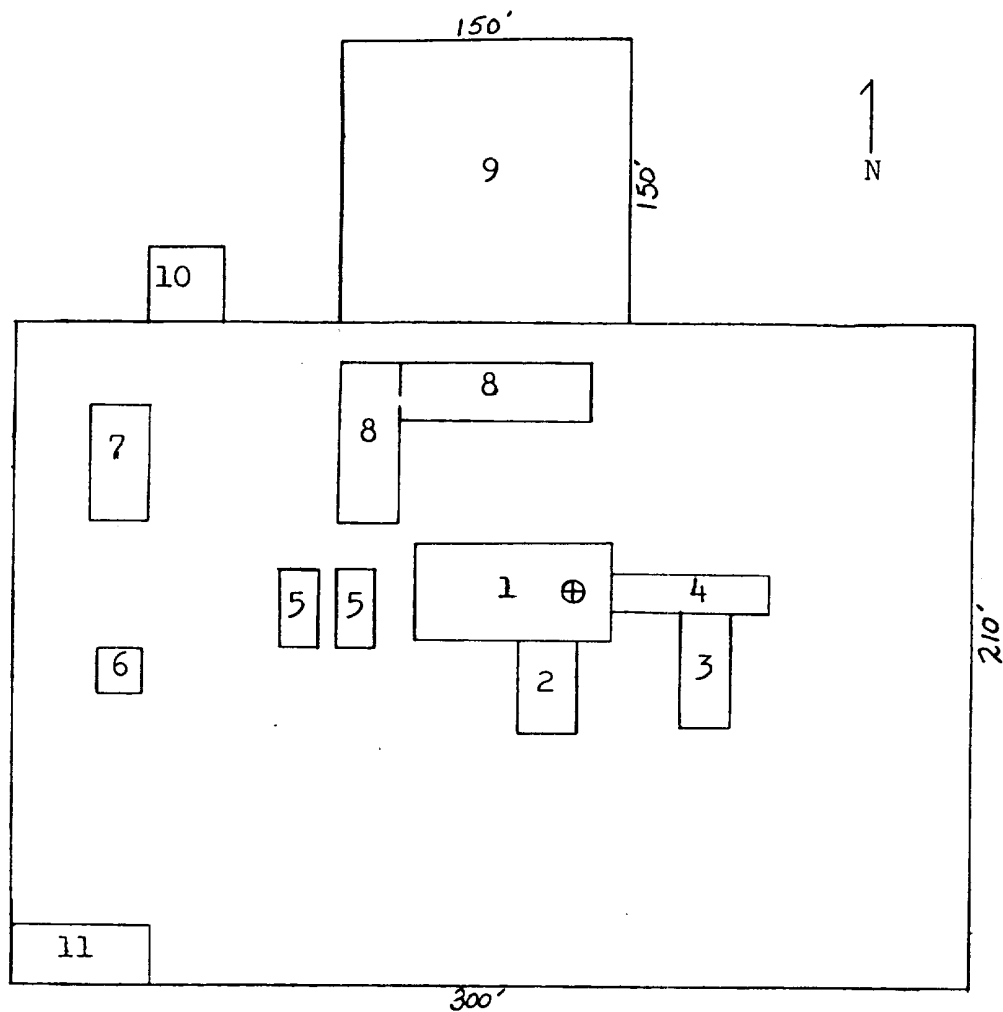
330 660 990 1320 1650 1980 2310 2640 2000 1800 1000 800 0

APPLICATION TO DRILL

Harper Oil Company
K-M Federal No. 1
1880' FWL & 2310' FSL
Section 11, T-5-S, R-27-E
Chaves County, New Mexico

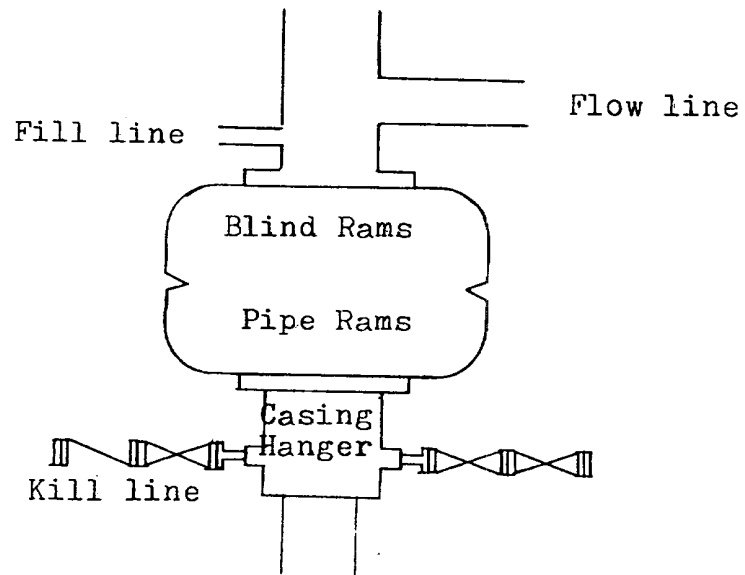
The following answers are provided for your consideration in response to your outline under Section II of Bulletin NTL-6:

1. Location: 1880' FWL & 2310' FSL, Section 11, T-5-S, R-27-E, Chaves County, New Mexico.
2. Elevation Above Sea Level: 3992.8'
3. Geologic Name of Surface Formation: Permian
4. Drilling Tools & Associated Equipment: Rotary drilling tools using mud for the circulation medium.
5. Proposed Drilling Depth: 7500[±]
6. Estimated Geological Marker Tops: San Andres 1340', Glorietta 2480', Tubb 3890', Abo 4280', Wolfcamp 5290', Pennsylvania 6028', Mississippian 6560', Strawn 6900', Montoya 7210'.
7. Mineral Bearing Formations: Gas bearing @ 7000[±].
8. Casing Program: See Form 9-331C.
9. Setting Depth of Casing & Cement: See Form 9-331C.
10. Pressure Control Equipment: Blowout preventer stock will consist of at least a double ram B.O.P. rated to 3000# WP.
11. Proposed Circulation Medium: Mud will be used for circulating medium for all depths in this well. 0 - 350': Fresh native mud; 350' - 1750': Fresh native mud with lost circulation material, when needed; 1750' - T.D.: Brine mud-add starch & lost circulation material to control water loss.
12. Testing, Logging & Coring Programs:
 - (A) Testing: All testing will be commenced after 5½" casing is set & cemented.
 - (B) Logging: Gamma ray will be run from T.D. to surface. Compensated Neutron Density log with caliper & Dual Laterolog-micro SFL from T.D. to bottom of intermediate casing.
 - (C) Coring: None anticipated.
13. Potential Hazards: No abnormal pressures or temperature zones are anticipated.
14. Anticipated Starting Date: Drilling operations will commence April 20, 1982. Drilling should be completed within 35 days. Completion operations will follow with the availability of completion unit.



- | | |
|-----------------|-------------------|
| 1. Substructure | 7. Water Tank |
| 2. Doghouse | 8. Working Pits |
| 3. Piperacks | 9. Reserve Pits |
| 4. Catwalk | 10. Trash Pit |
| 5. Mud Pumps | 11. Trailer House |
| 6. Light Plant | |

EXHIBIT 'C'
 Harper Oil Company
 K-M Federal No. 1
 1880' FWL & 2310' FSL
 Section 11, T-5S, R-27E
 Chaves County, N.M.



Blowout Preventer
3000 psi working pressure

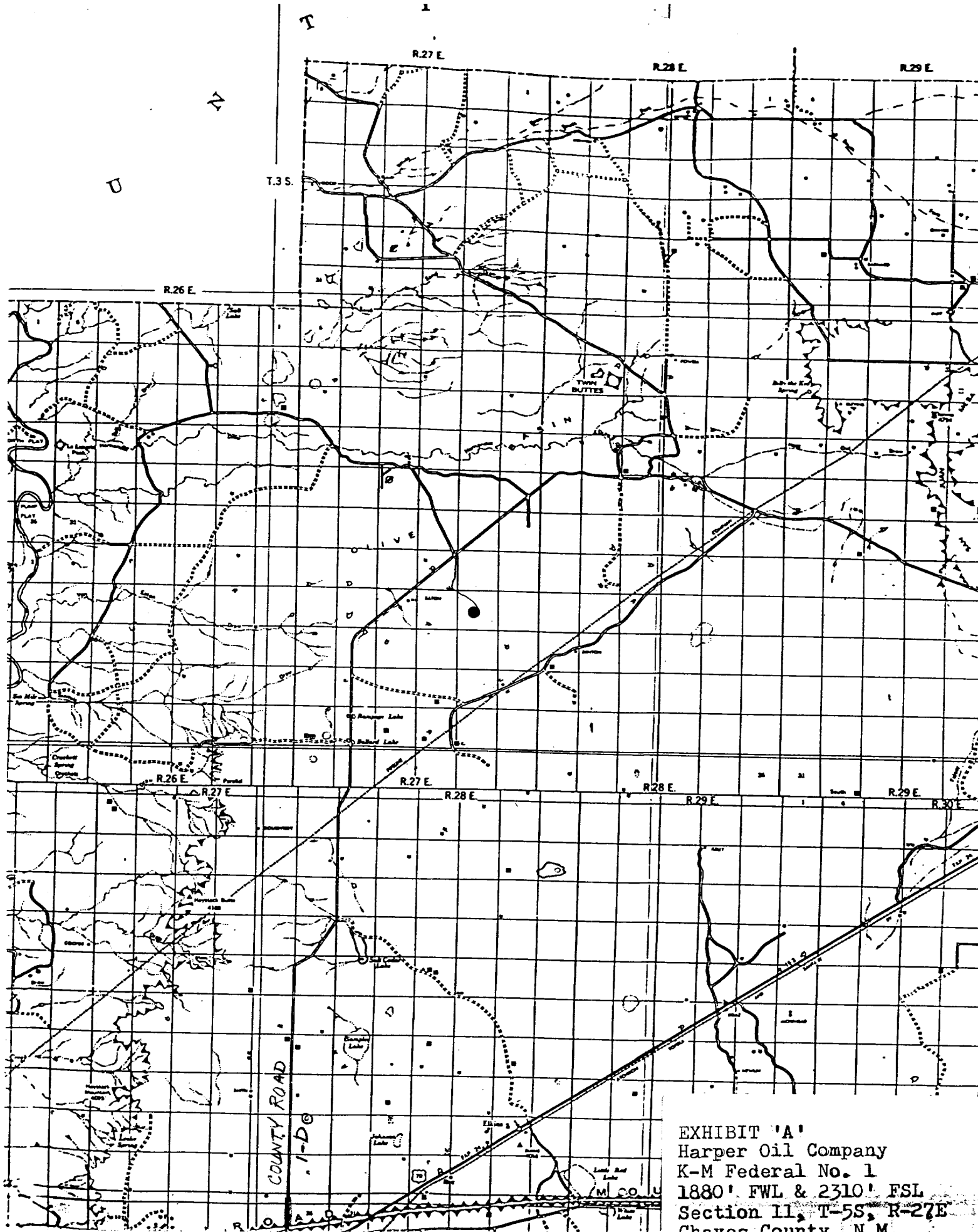
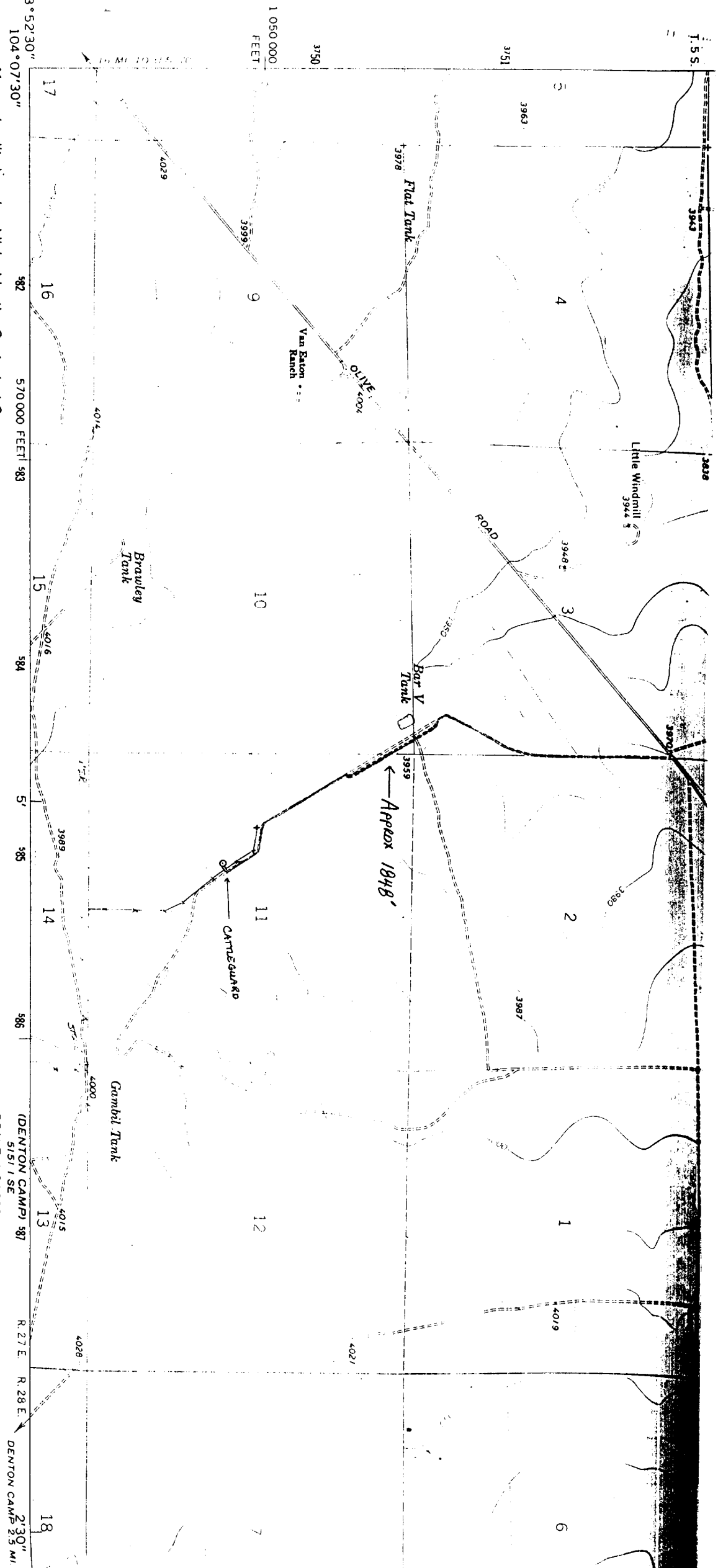


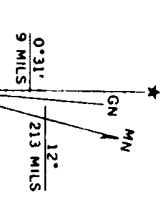
EXHIBIT "A"
 Harper Oil Company
 K-M Federal No. 1
 1880' FWL & 2310' FSL
 Section 11, T-5S, R-27E
 Charles County, N.M.



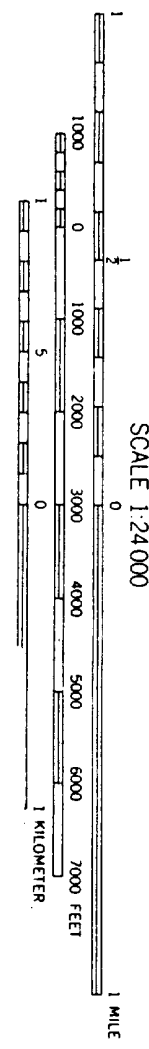
3°52'30"
104°07'30"
BUTTE
SW

Control by USGS and USC&GS
Mapped, edited, and published by the Geological Survey
Topography by photogrammetric methods from aerial
photographs taken 1966. Field checked 1967

Polyconic projection. 1927 North American datum
10,000-foot grid based on New Mexico coordinate system,
east zone
1000-meter Universal Transverse Mercator grid ticks,
zone 13, shown in blue
Fine red dashed lines indicate selected fence lines



UTM GRID AND 1967 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET



(DENTON CAMP) 387
5151 SE
SCALE 1:24000

R 27 E. R 28 E.
DENTON CAMP 2.5 MI.
2°30"

EXHIBIT 'B'
Harper Oil Company
K-M Federal No. 1
1880' FWL & 2310' FSL
Section 11, T-5S, R-27E
Chaves County, N.M.

THIS MAP COMPLIES WITH NATIONAL MAP ACT
AND IS A GEOLOGICAL SURVEY OF DENVER COLORADO