

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY30-075-28356
5. LEASE DESIGNATION AND SERIAL NO.

NM 8904

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Beard Federal

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Wildcat Chacra

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

5-T22N-R8W

12. COUNTY OR PARISH 13. STATE

San Juan

New Mexico

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

DAVIS OIL COMPANY

3. ADDRESS OF OPERATOR

410 Seventeenth Street - Denver, Co. 80202

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

At surface

NE 1/4 NE 1/4 Section 5-T22N-R8W 827' FNL & 834' FEL

At proposed prod. zone

1000 FSL + 1640 FWL

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

8 Miles N-NW to Nageizi

15. DISTANCE FROM PROPOSED*

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

660' N

16. NO. OF ACRES IN LEASE

2096.24

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.

330' N

19. PROPOSED DEPTH

1750'

20. ROTARY OR CABLE TOOLS

Rotary

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

6726' GR - 6736' KB

22. APPROX. DATE WORK WILL START*

Upon Government approval

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" OD	24#, K-55, STC, New, 100'		cement to surface
8 3/4"	5 1/2" OD	15.5#, K-55, LTC, New, 1750'		150 sxs. Est.

(SEE TEN POINT PROGRAM)

RECEIVED

DEC 18 1978

gas not delineated

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

Marlis E. Smith

TITLE Chief Geologist

DATE Dec. 7, 1978

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

at Frank

NMOCC

NEW MEXICO OIL CONSERVATION COMMISSION
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.

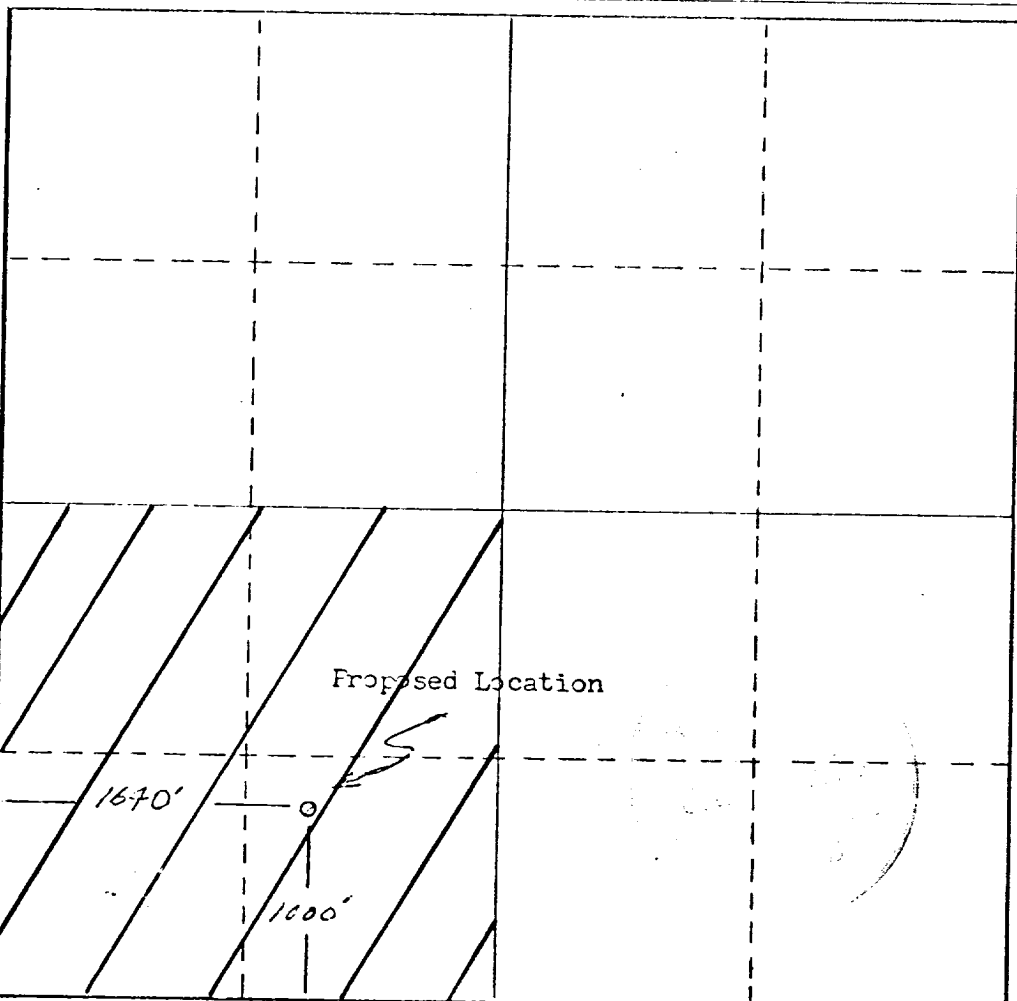
Operator Davis Oil Company		Lease Peard-Federal		Well No. 1
Unit Letter	Section 5	Township 22 N	Range 8 W	County San Juan
Actual Footage Location of Well:				
1000 feet from the South line and		1640 feet from the West line		
Ground Level Elev. 6797	Producing Formation CHACCA	Pool Wildcat	Dedicated Acreage: 160 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.

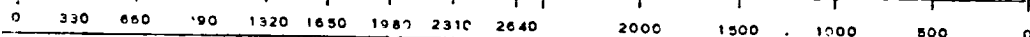
Name *Mark E. Reed*
Position **Chief Geologist**
Company **DAVIS Oil Co.**
Date **12/28/78**

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 **Dec. 22, 1978**

Registered Professional Engineer and Land Surveyor
Frederick H. Reed
Frederick H. Reed

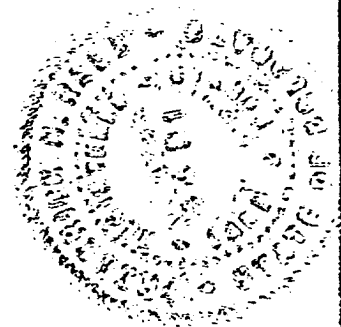
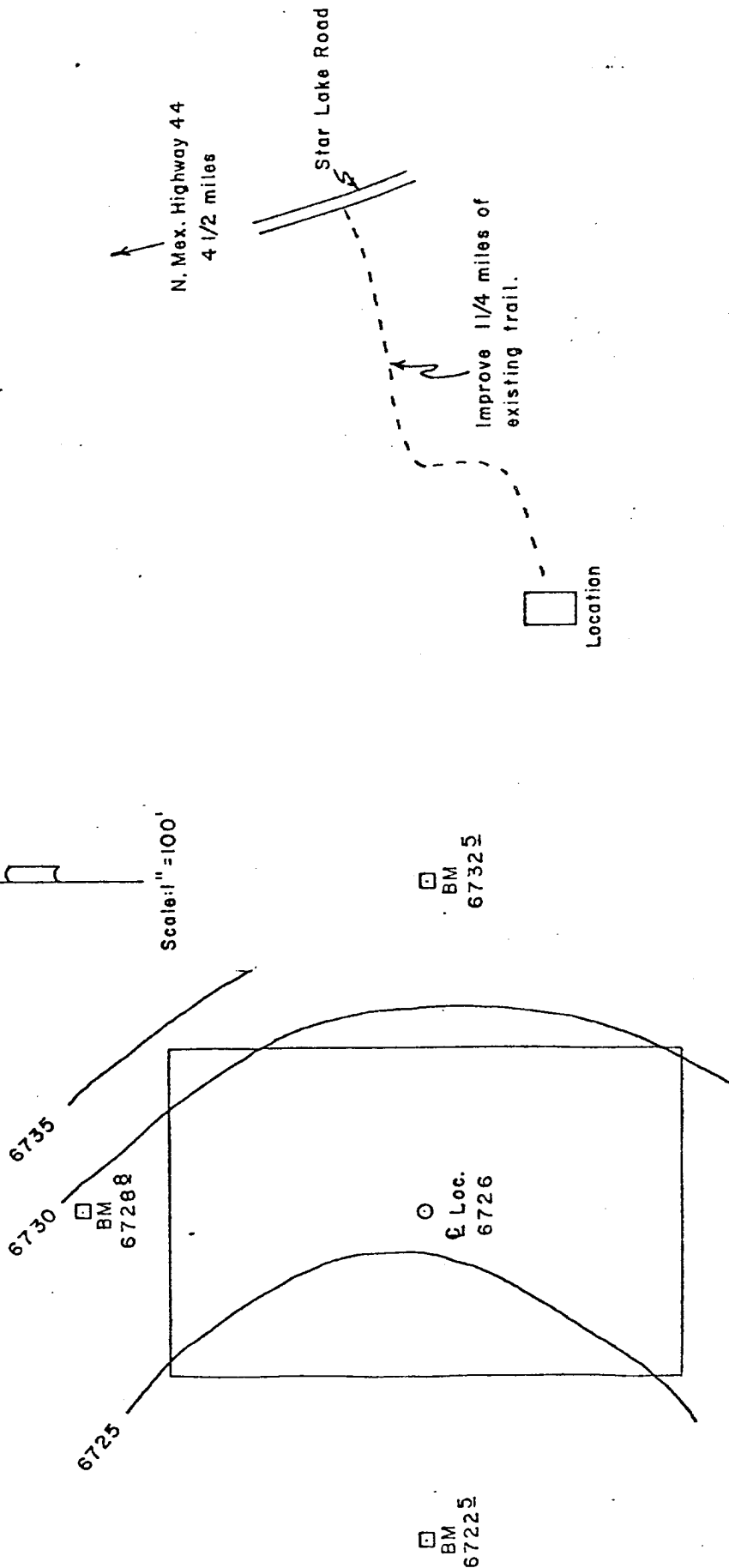
Certificate No. **3795**



TEN POINT PROGRAM

- 1) GEOLOGIC OBJECTIVE: Mesaverde Formation.
- 2 & 3) ESTIMATED TOPS: (Water, Oil, Gas or Mineral bearing formations)
- | | | |
|----------------|---------|---|
| Animas | Surface | Tite shale |
| Ojo Alamo | 243' | Sandstone, fresh water, no oil or gas. |
| Kirtland | 463' | Tite shale |
| Picture Cliffs | 921' | Sandstone and some thin coals, brackish water, no oil or gas. |
| Chacra | 1293' | Interbedded sandstone and shale, possible gas productive. |
| Menefee | 1617' | Interbedded sandstone and shale, possible gas productive. |
| Cliff House | 1691' | Sandstone and thin interbedded coal, possible gas productive. |
| Total Depth | 1750' | |
- 4) CASING PROGRAM: 100', 8 5/8" OD, 24#, K-55, STC, New, cement to surface.
1750', 5 1/2" OD, 15.5#, K-55, LTC, New, 150 sxs. Est.
- 5) PRESSURE CONTROL EQUIPMENT: (See attached schematic diagram) BOP's and choke manifold will be installed and pressure tested before drilling out under surface casing and then will be checked daily as to mechanical operating condition.
- 6) MUD PROGRAM: 0-100' Spud Mud
100-1400' Treated Water
1400'-TD LSND, 9.0-9.5 ppg (Mud wt. as required to control formation pressure), Vis 35-40, Less 10 cc WL, pH 10-10.5. Sufficient mud materials to maintain mud properties, control lost circulation and to contain blowout will be available at wellsite.
- 7) AUXILLIARY EQUIPMENT:
1. Kelly Cock.
 2. Drill Pipe Float (Except for lost circulation drilling conditions)
 3. Monitoring of Mud System will be visual unless otherwise specified.
 4. A sub on the floor with a full opening valve to be stabbed into drill pipe when Kelly is not in the string.
- 8) LOGGING: Dual Induction Laterolog from base of surface casing to total depth.
Compensated Neutron Formation Density from base of surface casing to total depth.
- TESTING: No testing.
- CORING: No coring.
- STIMULATION: Mesaverde Formation - Approx. 50,000 gals. gelled Kcl water frac. with 30,000# 10/20 sand. Actual volume of treatment will be dependent upon thickness of pay and evaluation of zone of interest.
- 9) ABNORMAL PRESSURE: Abnormal pressures, temperatures of other hazards are not anticipated during the drilling operations of this well.
- ESTIMATED BOTTOMHOLE PRESSURE: 600 psi
- 10) ANTICIPATED STARTING DATE: Within 30 to 45 days from date of Government approval.
- DURATION OF OPERATION: San Juan Basin 20-25 days

Scale: 1" = 100'



I hereby certify the above plat represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief.

Fredrick H. Reed
FREDERICK H. REED
Registered Land Surveyor

Davis Oil Co.
Denver, Colo.

WELL SITE PLAN
Sec. 5, T22N, R8W
San Juan Co., N. Mex.

CLARK-NEED & ASSOC.
Durango, Colorado

DATE: Dec. 8, 1978
FILE NO. 78081