

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

Rader Oil Company

3. ADDRESS OF OPERATOR

4715 Fredericksburg Rd. #522, San Antonio, Tx 78229

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

At surface

605 ft FNL and 1592 ft FEL

At proposed prod. zone
same

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

25 miles south-southwest of Cuba

15. DISTANCE FROM PROPOSED*

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

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

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

6478 Gr

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 3/4	8 5/8	28#	30 ft	15 sks
6 3/4	4 1/2	9.5#	600 ft	100 sks

- Set 30 ft. 28# J55 surface casing & cement to surface using 17.7 cu. ft. Class B 15.5 # neat cement.
- Install annular preventer.
- Drill to 600 ft.
- Set 600 ft 4 1/2", 9.5# limited service J55 casing. Cement casing with 100 sks of class B 15.5# w/2% CaCl giving a yield of 1.18 cu ft per sack with a weight of 15.6# per gallon, 5.2 gal H₂O per sack and a total slurry volume of 118 cu ft.
- Perforate zones which show productive.
- Sand frac zone or zones which show production possibility.
- Install pump and connect flow line to existing system at Ann #10.

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

Harvey Rader

Owner

(This space for Federal or State use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED

AS AMEND

NOV 16 1984

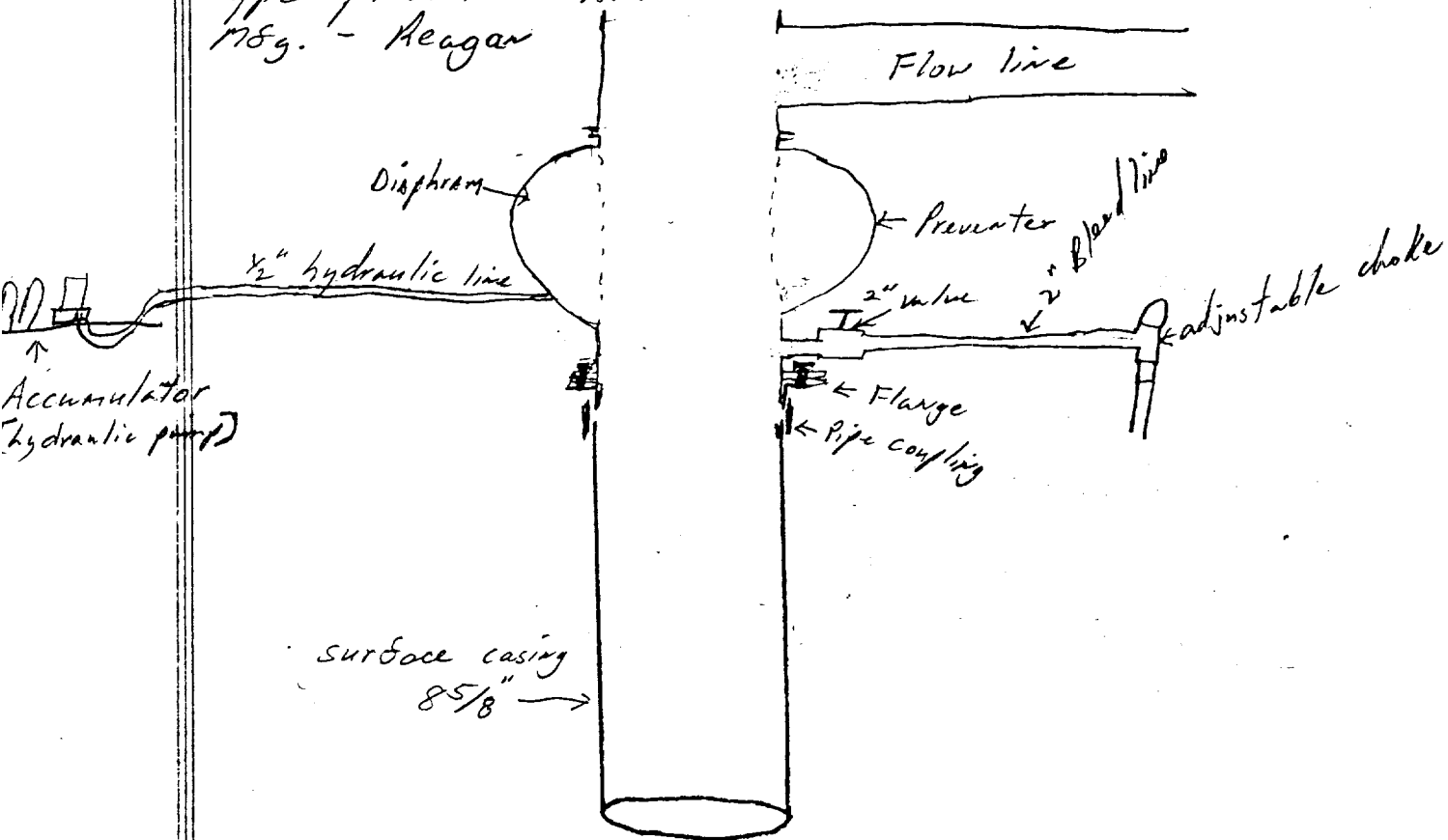
DATE

AREA MANAGER
FARMINGTON RESOURCE AREA

*See Instructions On Reverse Side

Blowout Stack

Type preventer - Annular
msg. - Reagan



DRILLING PROGRAM FOR ANN 10R

1. The Menefee outcrops on location and our TD of approximately 600 ft will also be in the Menefee formation.
2. We expect to encounter oil zones at 280 ft and 375 ft. We expect to produce both these zones. We will set casing at 600 ft and cement back to surface to protect any water zones.
3. This area has been thoroughly drilled and no gas blow-outs have occurred to 1000 ft.
4. The drilling medium will be compressed air.
5. A drillers log and gamma/ray neutron log will be used.
6. No abnormal pressures or gases will be encountered. This is a direct offset to several wells drilled in the area.
7. This is a lease with a difficult operational history and which has a potential of only "stripper" production. All rules and regulations of the BLM will be adhered to. An archeological report for the entire lease is on report at the BLM. An accurate survey plat in association with an attempted waterflood on the lease is also on record in the lease file at BLM.

*Note

This is a direct offset to the Ann #10 well. This well was surveyed when the well was originally drilled and surveyed again when the former operator, Mr. Noel Reynolds, attempted a waterflood in 1983. Both of those surveys are in the BLM files for this lease.

John Brown