

OIL CONG. COMM. 1000
P.O. BOX 1000
NEW MEXICO 88240

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

Grace Petroleum Corporation Attention: Bill Baswell

3. ADDRESS OF OPERATOR

6501 N. Broadway, Oklahoma City, OK 73116

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

At surface
660' FNL & 1980' FWL
At proposed prod. zone

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

30 miles SW of Hobbs, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any) 660'

16. NO. OF ACRES IN LEASE

959.96'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

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

1866.76'

19. PROPOSED DEPTH

9850

20. ROTARY OR CABLE TOOLS

Rotary

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

GR 3582.5'

Capitan Controlled Water Basin

22. APPROX. DATE WORK WILL START*

December 15, 1990

23. PROPOSED CASING AND CEMENTING PROGRAM Secretary's Potash, R-T-T-P Potash

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48 lb/ft	480'	500 sxs circ. to surface
12-1/4"	8-5/8"	28 & 32 lb/ft	5200'	3565 sxs 2 stages circ. to surface
7-7/8"	5-1/2"	17 & 20 lb/ft	9850'	1500 sxs cmt to 4500'

13-3/8" casing: Circulate to surface using 500 sxs premium plus cement containing 2% calcium chloride.

8-5/8" casing: Cement in two stages with multiple stage cementer (DV tool) @ ± 3800'. First stage 660 sxs light containing 16 lbs salt & 1/4 lb flocele, tailing w/200 sxs premium plus containing 2% calcium chloride. Second stage w/2505 sxs light containing 16 lb salt & 1/4 lb flocele, tailing w/200 sxs premium plus containing 2% calcium chloride.

5-1/2" casing: Cement w/1200 sxs 50/50 premium poz mix containing .6% Halad 22A - 5 lbs KCL tailing w/300 sxs premium plus with 2% calcium chloride.

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

William P. Baswell

TITLE Operations Engineer

DATE 11/7/90

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO

GENERAL REQUIREMENTS AND

SPECIAL STIPULATIONS

TITLE

DATE

1-15-91

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Application For Permit To Drill
Grace Petroleum Corporation
Smith Ranch Federal #2-11
660' FNL & 1980' FWL
Section 11,T20S-R33E
Lea County, New Mexico

In conjunction with Form 3160-3, Application for Permit to Drill, Grace Petroleum Corporation submits the following items of pertinent information.

1. Geologic Surface Formation: Quaternary alluvium and bolson deposits.
2. Estimated Formation Tops: GR 3582.5'

<u>Formation</u>	<u>Estimated Depth</u>	<u>Remarks</u>
Yates	3300'	Poss. show oil
7 Rivers	3400'	Poss. show oil
Queen	4500'	Poss. show oil
Delaware	5700'	Poss. show oil
Bone Springs	8000'	Poss. show oil

3. Proposed Casing Program: See Form 3160-3 and Attachment I.
4. Pressure Control Equipment: See Attachment II.
5. Mud Program: See Attachment III.
6. Auxilliary Equipment: As needed.
7. Testing, Logging and Coring Program:

Testing - Possible DST in Bone Springs

Logging - Mud log 3000' to TD

Electric Logs - Compensated Neutron Formation Density Dual Laterlog
(surf. to TD), Borehole Compensated Sonic & Phasor
Induction Log (int. csg to TD). Gamma Ray w/Caliper.

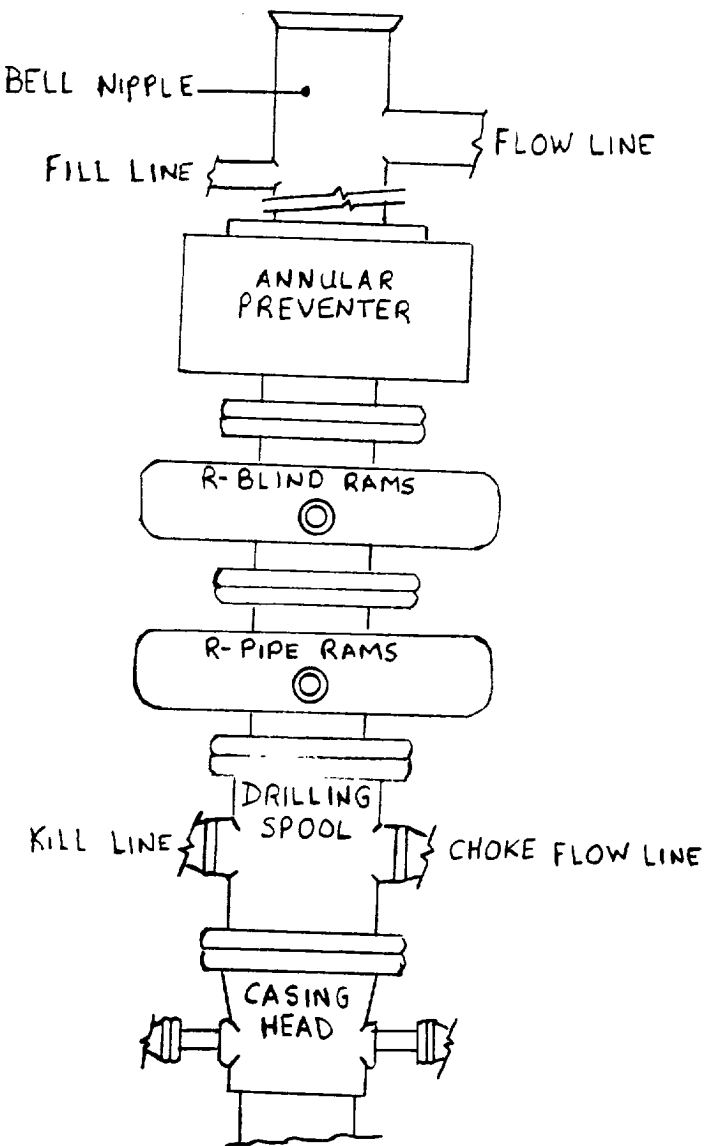
Coring - Bone Springs 2 - 30 feet cores

8. Known Drilling Hazards: None
9. Anticipated Starting Date: December 15, 1990

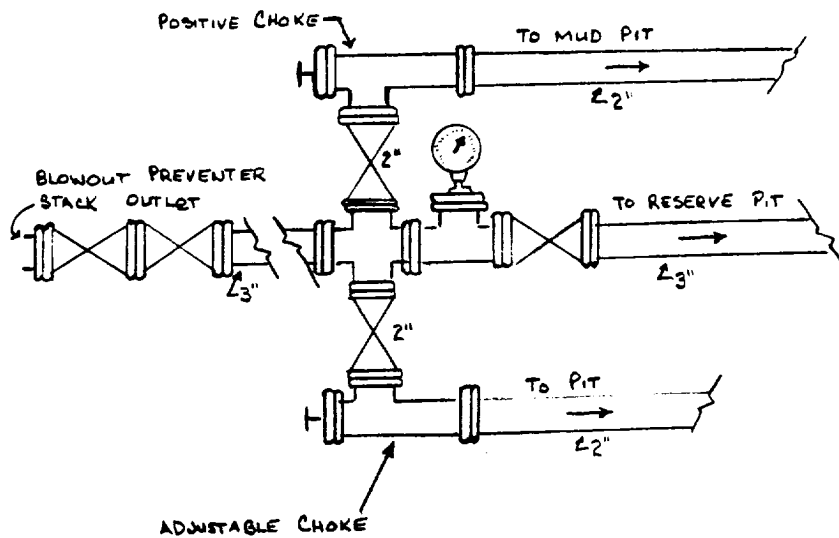
GRACE PETROLEUM CORPORATION
 Smith Ranch # 2-11
 660' FNL & 1980' FNL
 SEC. 11, T-20-S, R-33-E
 LEA COUNTY, NEW MEXICO

BLOWOUT PREVENTER

5000 PSI W.P.



* TAKEN FROM "RULES AND REGULATIONS"
 PART V (43 CFR PART 3160)



head 4-25-91

ELF

JAN 1 8 1991

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