

NMOCC

COPY

SUBMIT IN DUPLICATE\*

(Other instructions on  
reverse side)Form approved.  
Budget Bureau No. 42-R1425.UNITED STATES  
DEPARTMENT OF THE INTERIOR

## GEOLOGICAL SURVEY

## 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

Perry R. Bass

## 3. ADDRESS OF OPERATOR

P. O. Box 2760, Midland, Texas 79702

OCT 27 1977

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

At surface

460' FNL & 660' FEL, Sec 18, T24S, R30E  
Eddy County, New Mexico

At proposed prod. zone

same as above

C. C. C.

ARTESIA, OFFICE

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

Approx 30 miles west, northwest from Jal, New Mexico

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. 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.)

3168.2 GL

## 16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

## 19. PROPOSED DEPTH

3800'

## 20. ROTARY OR CABLE TOOLS

rotary

## 22. APPROX. DATE WORK WILL START\*

30 days after 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	24#	325'	225 sx
7-7/8 "	5-1/2	14#	3800'	375 sx

Drilling Procedure, BOPE diagram, anticipated formation tops, and surface use plans are attached.

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U. S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

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

*Dane Young*

TITLE

Engineer Assistant

DATE

9-28-77

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

OPERATIONS

DATE

THIS APPROVAL IS REVOKED IF OPERATIONS  
ARE NOT COMMENCED WITHIN 3 MONTHS.

EXPIRES

\*See Instructions On Reverse Side

ACTING DISTRICT ENGINEER

1000 5/11

17 RE UNIT

45

A

15

24 S. 100

9.0

1000

460

North

East

East

3165.2

*Adairville*

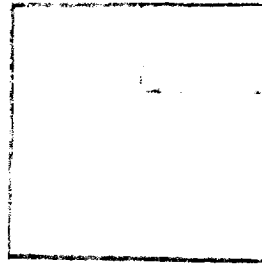
Wildcat

40

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U. S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO



*J. E. Pullig*  
J. E. Pullig

Division Production Manager

Bass Enterprises Prod. Co.

September 28, 1977

September 29, 1977

*Sept 29, 1977*

DRILLING PROGRAM  
POKER LAKE UNIT NO. 45

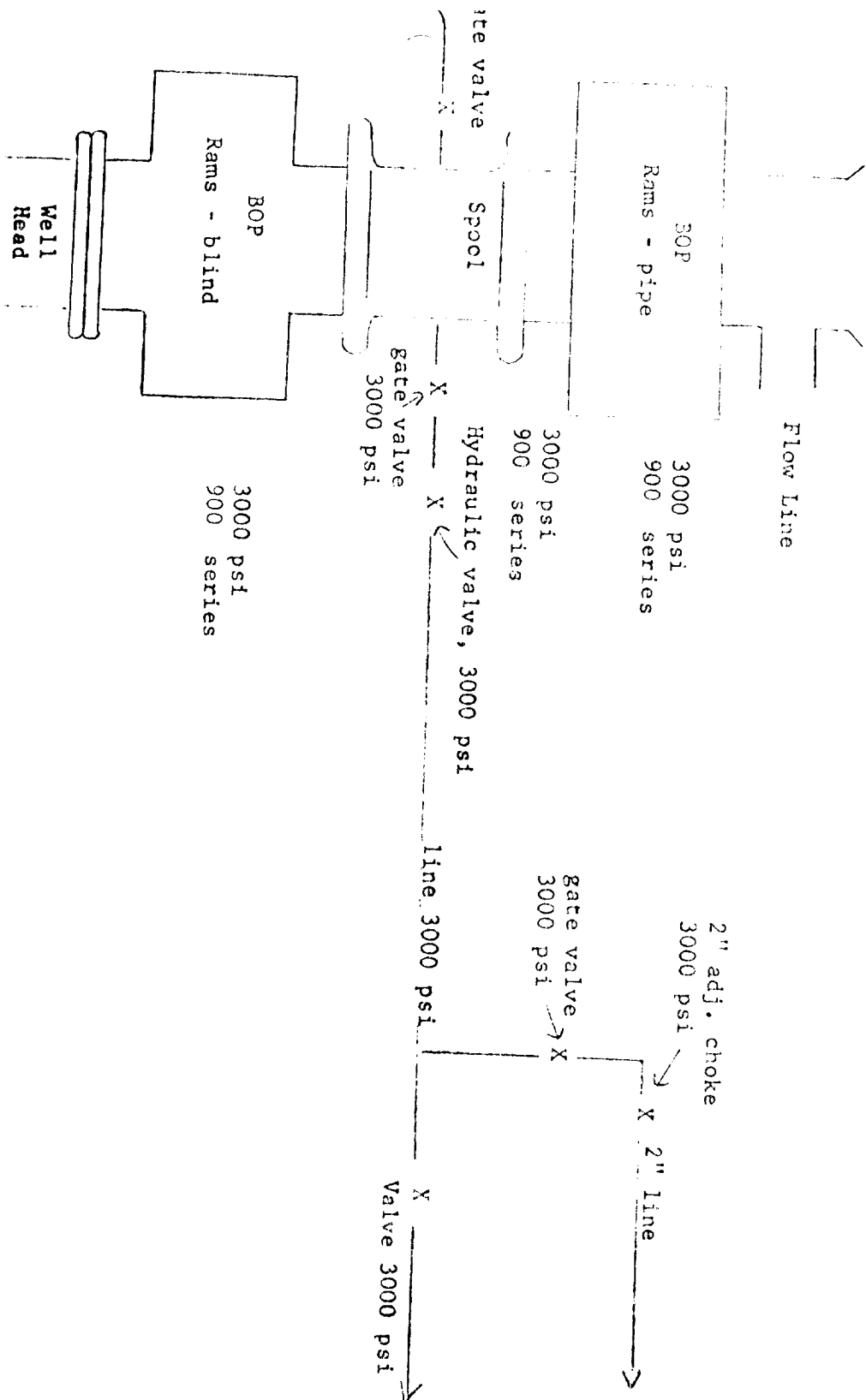
Location - 460' FNL, 660' FEL, Sec 18, T24S, R30E, Eddy County, New Mexico

Delaware Wildcat

Estimated TD - 3800'

- (1) Surface casing: To protect ground water sands, 8 5/8" 24# K-55 ST&C surface casing will be set at 325' in a 12 1/4" hole. The hole will be drilled using fresh water native mud using gel and paper as needed to clean hole and control seepage. Casing will be cemented to surface using and estimated 225 sacks of class "C" containing 2%  $\text{CaCl}_2$ . Manually operated 10" - 3000# WP BOP's will be installed (BEPCO I minimum). Preventer stack and choke line will be pressure tested to 1000 psi. Casing will be pressure tested to 1000 psi before drilling out shoe joint.
- (2) Production Casing: A 5 1/2", K-55, 14# ST&C casing string will be run to TD at an estimated depth of 3800' in a 7 7/8" hole. The hole will be drilled with brine water (10 ppg) to minimize wash outs in the salt sections. Paper will be used to control seepage and lime will be used to maintain pH (Caustic may be required if hardness of water is too high). Casing will be cemented using 375 sacks of 50-50 class "C" Pozmix A w/6% salt mixed to 14.2 ppg. Anticipated cement top at 2000 feet. The pozmix cement is recommended due to its better perforating characteristics and it is more resistant to water channeling.
- (3) Anticipated drilling problems: Hole deviation problems have been encountered while drilling the salt intervals and it may be necessary to reduce the WOB to control deviation. Due to the unavoidable washouts in the salt sections, experience has shown that bottom hole stabilization has been useless in deviation control.
- (4) Evaluation: 10' drilling samples will be caught from surface casing to TD. An estimated 20 sidewall cores will be taken in the Delaware sands after reaching TD. Wireline logs to be run at TD are: BH Sonic w/ GR Caliper and DLL-GR.
- (5) Rig time: This well is estimated to require a total of 10 days rig time from spud to move off.

To Reserve  
Pit



POKER LAKE UNIT NO. 45

ANTICIPATED FORMATION MARKERS

Top Salt	(+2537)	650'
Base Salt	(- 263)	3450'
Delaware Mtn Gp	(- 300)	3487'
Ramsey	(- 326)	3513'
Ford	(- 363)	3550'
Olds	(- 375)	3562'