

DEC 08 1983

O. C. D.  
ARTESIA, OFFICEUNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYNM OIL CONS. COMMISSION  
Drawer DD  
Artesia, NM 88201  
SUBMIT IN THIS MANNER  
(Other instructions on reverse side)Form approved.  
Budget Bureau No. 42-E1425.

30-005-62086

## 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 ☐

## 2. NAME OF OPERATOR

M. J. Harvey, Jr. ✓

## 3. ADDRESS OF OPERATOR

Box 12705, Dallas, Texas 75225

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

At surface

660' FSL &amp; 660' FEL (SESE)

At proposed prod. zone

Same

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

Approximately 29 miles north-northeast of Roswell, N.M.

## 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

2223.00

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.

N/A

## 19. PROPOSED DEPTH

4300'

## 20. ROTARY OR CABLE TOOLS

Rotary

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

3557' GR

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

ASAP

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
24"	20"	94#	30'	circulate
12 1/2"	8 5/8"	24#	975'	960 sx circulated
7 7/8"	4 1/2"	10.5#	TD	525 sx

We propose to drill and test the Abo and intermediate formations. Approximately 975' of surface casing will be set and cemented to surface. If commercial, 4 1/2" production casing will be run and cemented with adequate cover, perforate and stimulate as needed for production.

MUD PROGRAM: FW gel and LCM to 1300', Brine KCL to 3200', KCL to 3200', KCL Drispak and Starch to 4300'. MW 10-10.2, Vis. 34-39, WL 14-7.

BOP PROGRAM: BOP will be installed on 8 5/8" casing and tested daily.

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

TITLE

Owner

DATE 12-5-83

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

Orig. Sgd. Early B. G. Smith

District Manager

DATE

DEC 07 1983

CONDITIONS OF APPROVAL, IF ANY:

GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

## Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

**Item 1:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

**Items 15 and 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

**Item 22:** Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 8750

Form C-102  
Revised 10-1-7

All distances must be from the outer boundaries of the Section.

Operator <b>M. J. Harvey</b>			Lease <b>Harvey Federal 18-1</b>		Well No. <b>#1</b>
Unit Letter <b>P</b>	Section <b>18</b>	Township <b>9 South</b>	Range <b>25 East</b>	County <b>Chaves</b>	
Actual Postage Location of Well:					
660 feet from the South line and		660 feet from the East line			
Ground Level Elev. <b>3557</b>	Producing Formation <b>Abo</b>	Pool <b>S. PECOS SLOPE</b>		Dedicated Acreage <b>160</b>	Acre

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, force-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division.

Sec.18, T.9 S., R.25 E., N.M.P.M.

## CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name

Position

Company

Date

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

November 4, 1983

Registered Professional Engineer  
and/or Land Surveyor

John D. Jaquess, PE &amp; LS

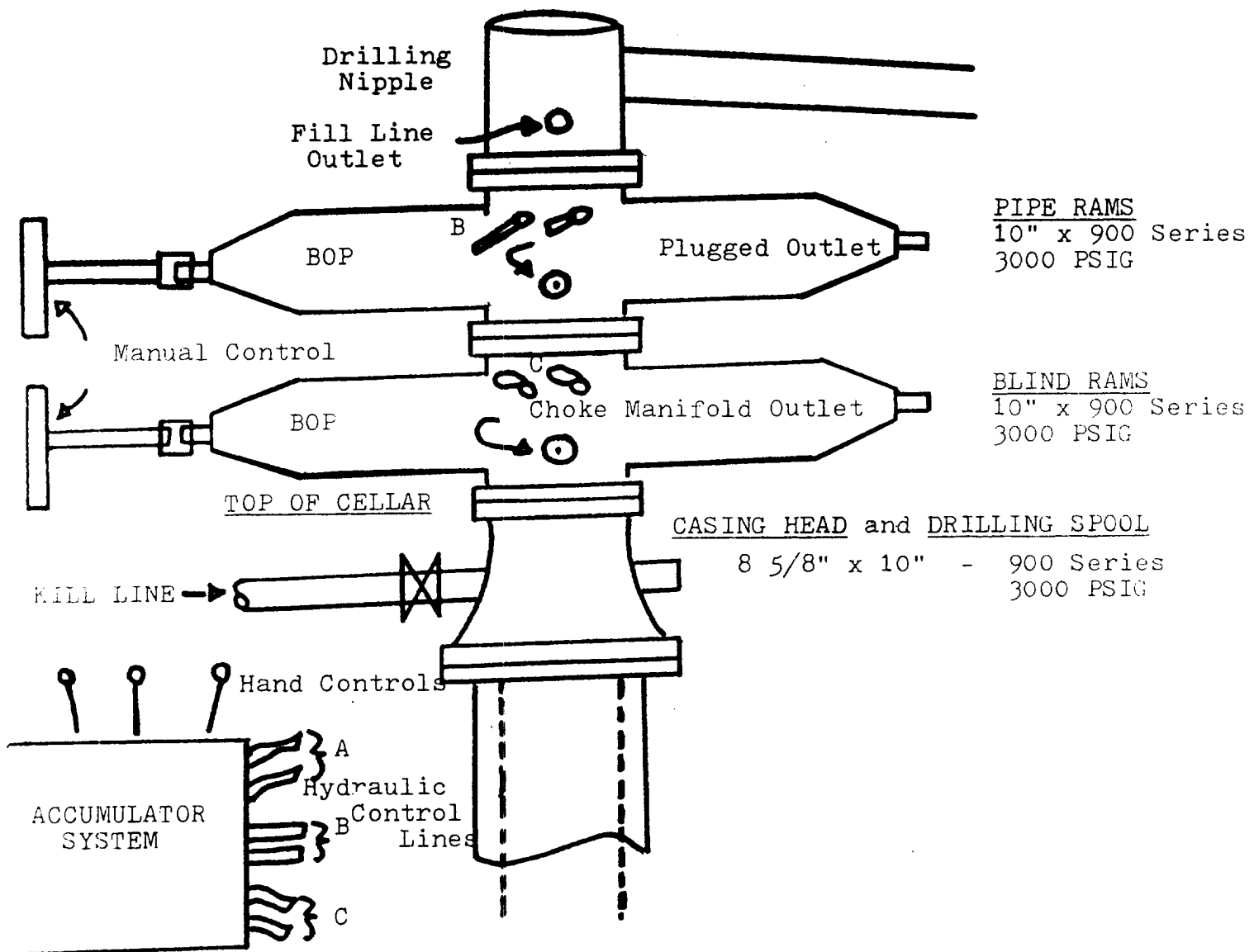
Certificate No.

6290

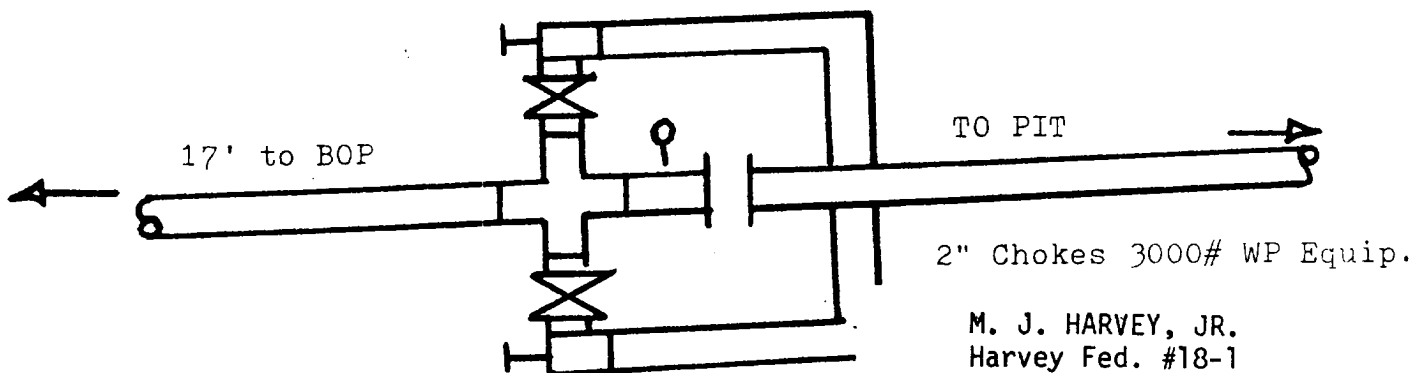
0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

**BLOWOUT PREVENTER  
and  
PRESSURE CONTROL EQUIPMENT**

B O P STACK



CHOKE MANIFOLD



M. J. HARVEY, JR.  
Harvey Fed. #18-1

EXHIBIT "Z"

M. J. HARVEY, Jr.  
NM -19829  
SESE Sec. 18, T9S, R25E  
Chaves Co., NM

In conjunction with Form 9-331C, Application for Permit to Drill subject well, M. J. Harvey, Jr. submits the following ten items of pertinent information in accordance with BLM requirements.

1. The geologic surface formation is sandy residuum.
2. The estimated tops of geologic markers are as follows:

San Andres	337'	Wolfcamp	4000'
Gloriata	1400'	TD	4300'
Abo	3500'		
3. The estimated depths at which anticipated water, oil, or gas formations are expected to be encountered:

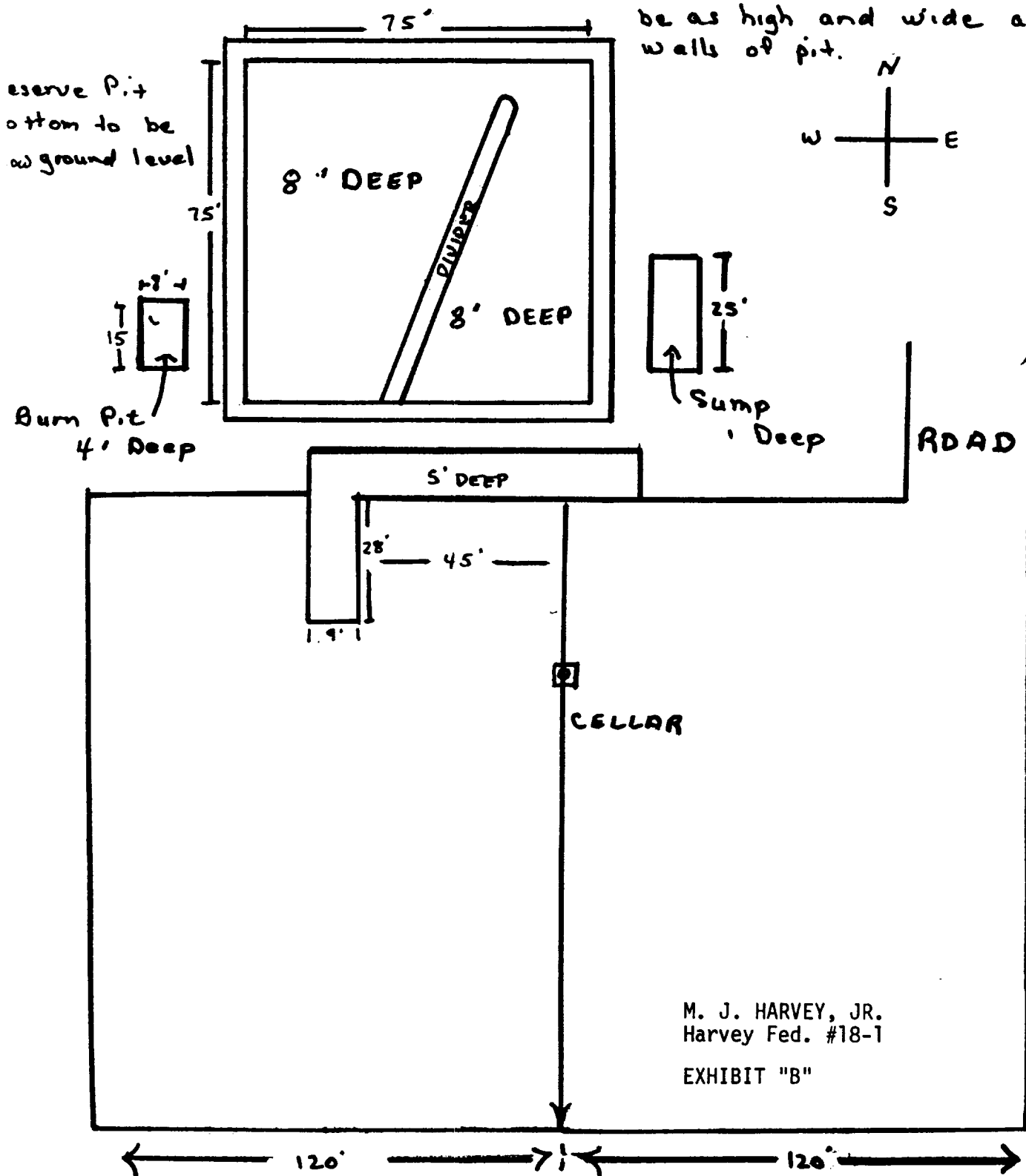
Water:	Approximately 200'
Gas:	3535'
4. Proposed Casing Program: See Form 9-331C.
5. Pressure Control Equipment: See Form 9-331C and EXHIBIT B.
6. Mud Program: See Form 9-331C.
7. Auxiliary Equipment: Kelly cock, pit level indicators and flow sensor equipment; sub with full-opening valve on floor, drill pipe connection.
8. Testing, Logging and Coring Program:

Samples:	Surface casing to TD
DST's:	As warranted
Logging:	Intermediate casing to TD; CNL-FDC TD to casing with GR-CNL to surface and DLL from TD to casing.
Coring:	None
9. No abnormal pressures or temperatures are expected.
10. Anticipated starting date is as soon as possible after approval.



FLAT TERRAIN ALLOWS  
 GRADING SURFACE WITH  
 NO MAJOR CUTS OR FILLS  
 TOPSOIL WILL BE STOCKPILED  
 ONLY IF REQUIRED TO DO SO

NOTE: Inside walls must  
 be as high and wide as outer  
 walls of pit.



NO SCALE