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DEPARTMENT (C  
BUREAU OF LAND

## APPLICATION FOR PERM

OPER. OGRAD NO. 10179  
PROPERTY NO. 12993  
POOL CODE 6535D  
EFF. DATE 3/3/97  
API NO. 30-025-33864

## 1a. TYPE OF WORK

DRILL ☒

C

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

HARVEY E. YATES COMPANY

## 3. ADDRESS AND TELEPHONE NO.

P.O. BOX 1933, ROSWELL, NEW MEXICO 88202 505-623-6601

## 4. LOCATION OF WELL (REPORT LOCATION CLEARLY AND IN ACCORDANCE WITH ANY STATE REQUIREMENTS)

AT SURFACE 100' FNL &amp; 2310' FEL

AT PROPOSED PROD. ZONE

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

APPROXIMATELY 11 MILES SOUTH OF MALJAMAR, NEW MEXICO

## 15. DISTANCE FROM PROPOSED

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.

(Also to nearest drig. unit line, if any)

70'

## 16. NO. OF ACRES IN LEASE

160

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.

600'

## 19. PROPOSED DEPTH

9100'

## 20. ROTARY OR CABLE TOOLS

ROTARY

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

3865.1

## APPROX. DATE WORK WILL START

ASAP

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WT PER FT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8" H-40	48# ST&C 8RD	400	425 SX "C" w/ 2% CACL & 1/4# FLOSEAL
12 1/4"	8 5/8" J-55	32# ST&C 8RD	3100	200 SX "C" w/ 2% CACL & 1/4# FLOSEAL 1200 SX FILLER
7 7/8"	5 1/2" J-55	17# LT&C 8RD	9100	1100 SX LEAD & 500 SX TAIL **

ALL CASING WILL BE NEW, OR USED MEETING BLM SPECS.

CEMENT WILL BE CIRCULATED ON 13 3/8" AND 8 5/8" CASING.

CEMENT QUANTITIES AND ADDITIVES ARE SUBJECT TO CHANGE DUE TO HOLE CONDITIONS.

\* FILLER CEMENT 35/65 "C" POZ w/ 6% GEL, 5# SALT, &amp; 1/4# FLOSEAL

\*\* LEAD: 1100 SX "H" POZ w/ 2% GEL &amp; 5# SALT PER SACK

TAIL: 500 SX "H" w/ 3% KCL, .5% FLUID LOSS, .3% DISPERSANT, 1% BONDING AGENT, .3% RETARDER, &amp; 2% SODIUM METASILICATE PER SACK.

## PROPOSED MUD PROGRAM

0-400	FRESH WATER w/ PAPER & SHALE GUARD. MW-9.0 VIS-31
400-3100	BRINE WATER w/ PAPER & SHALE GUARD. MW-10.0 VIS-31
3100-9100	FRESH WATER w/ PAPER, SHALE GUARD, & AMMONIA NITRATE. 28-30,000 CHLORIDES. MW-8.6 VIS-29

MUD PROGRAM SUBJECT TO CHANGE DUE TO HOLE CONDITIONS

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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 Bob Williams Bob Williams TITLE Drilling Superintendent DATE January 14, 1997

(THIS SPACE FOR FEDERAL OR STATE OFFICE USE)

PERMIT NO.

APPROVAL DATE

APPLICATION APPROVAL DOES NOT WARRANT OR CERTIFY THAT THE APPLICANT HOLDS LEGAL OR EQUITABLE TITLE TO THOSE RIGHTS IN THE SUBJECT LEASE WHICH WOULD ENTITLE THE APPLICANT TO CONDUCT OPERATIONS THEREON

CONDITIONS OF APPROVAL IF ANY:

APPROVED BY ORIG. SEC. CON. FERGUSON

TITLE

ADM. MINERALS

DATE

2-27-97

TITLE 18 U.S.C. SECTION 1001, MAKES IT A CRIME FOR ANY PERSONS 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

SUBJECT TO  
LIKE APPROVAL  
BY STATE  
FOR UNORTHODOX LOCATION

## DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

## State of New Mexico

Energy, Minerals and Natural Resources Department

JAN 20 1997

Form C-102

Revised February 10, 1994

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

## DISTRICT II

P.O. Drawer DD, Artesia, NM 88211-0719

## DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

## OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

## DISTRICT IV

P.O. Box 2088, Santa Fe, NM 87504-2088

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-025-33864</b>	Pool Code <b>65350</b>	Pool Name <b>North Young Bone Spring</b>
Property Code <b>12993</b>	Property Name <b>YOUNG DEEP UNIT</b>	
OGRID No. <b>010179</b>	Operator Name <b>HARVEY E. YATES COMPANY</b>	
		Well Number <b>38</b>
		Elevation <b>3865</b>

## Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	10	18 S	32 E		100	NORTH	2310	EAST	LEA

## Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres <b>42</b>	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<b>OPERATOR CERTIFICATION</b> I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <u>Bob Williams</u> Signature Bob Williams Printed Name Drilling Superintendent Title 1/21/97 Date	
	<b>SURVEYOR CERTIFICATION</b> 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 belief. JANUARY 16, 1997 Date Surveyed Signature & Seal of Professional Surveyor <u>Ronald J. Eidson</u> 1-17-97 W.O. Num. 97-11-0076 Certificate No. JOHN W. WEST, 676 RONALD J. EIDSON, 3239 GARY G. EIDSON, 12841	

Application  
Harvey E. Yates Company  
Young Deep Unit 38  
Section 10, T18S, R32E  
Lea County, New Mexico

In conjunction with Form 3160-3, Application For Permit To Drill Or Deepen subject well, Harvey E. Yates Company submits the following ten items of pertinent information in accordance with Onshore Oil & Gas Order No. 10.

1. **Geologic Name of Surface Formation:**  
Quaternary alluvium and bolson deposits
2. **Estimated Tops of Significant Geologic Markers:**  
Rustler 1243', Yates 2715', Seven Rivers 3177', Bowers 3645', Queen 3915', Penrose 4165', BFSA 4977', Delaware Sand, 5255', Bone Spring 6316', TD 9100.
3. **Estimated Depths at which Water, Oil, or Gas Formations are expected:**  
Water: Triassic Red Bed (Santa Rosa) @ approx. 220'.  
Oil: Bone Spring @ 6070'.  
Gas: Bone Spring @ 6070'.
4. **Proposed Casing Program:**  
See Form 3160-3.
5. **Pressure Control Equipment:**  
BOP & Annular. See EXHIBIT C. Although the rig equipment is rated 3M rated, this well will be rated 2M.
6. **Drilling Fluid Program:**  
See Form 3160-3
7. **Auxiliary Equipment:**  
None
8. **Testing, Logging, & Coring Program:**  
No Cores or DSTs are anticipated. The planned logs are DLL-Micro w/GR & Caliper, and CN-Den w/GR & Caliper.
9. **Abnormal Conditions, Pressures, Temperatures, or Potential Hazards:**  
No abnormal conditions are anticipated in this well bore.  
BHST-140 deg F  
BHP-2500 psi.  
No Hydrogen Sulfide or other hazardous gasses or fluids were encountered in any of the offset wells that Harvey E. Yates Company has drilled in this area. Therefore, no contingency plan is submitted. See EXHIBIT E.
10. **Anticipated Starting Date & Duration of Operation:**  
Spud Date: On or about March 15, 1997. Duration of this project will be approximately 32 days from start of construction of drilling pad until finish of completion operations.

YOUNG DEEP UNIT 38  
100' FNL & 2310' FWL  
SEC-10, T-18S, R-32E  
LEA CO. NM

