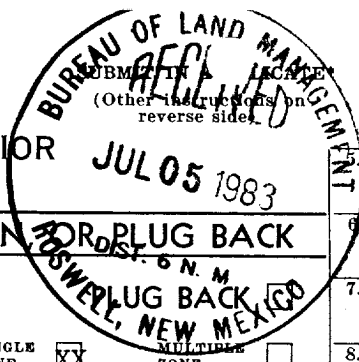


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER
 SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 Enserch Exploration, Inc. ✓

3. ADDRESS OF OPERATOR
 1230 River Bend Drive, Suite 136, Dallas, Texas 75247

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 560' FNL & 890' FWL
 At proposed prod. zone
 Same

5. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approximately 23 miles Southwest of Elida, New Mexico

6. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 560'

7. IF INDIAN, ALLOTTEE OR TRIBE NAME
 N/A

8. UNIT AGREEMENT NAME
 N/A

9. FARM OR LEASE NAME
 Harper Federal

10. WELL NO.
 1

11. FIELD AND POOL, OR WILDCAT
 Wildcat - *Harper Fed.*

12. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 13, T6S, R29E

13. COUNTY OR PARISH | 14. STATE
 Chaves | New Mexico

15. NO. OF ACRES IN LEASE
 320

16. NO. OF ACRES ASSIGNED TO THIS WELL
 40

17. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 N/A

18. PROPOSED DEPTH
 8200'

19. ROTARY OR CABLE TOOLS
 Rotary

20. ELEVATIONS (Show whether DF, RT, GR, etc.)
 4200.9' CR

21. APPROX. DATE WORK WILL START*
 July 15, 1983

RECEIVED
JUL 19 1983
O.C.D.
ARTESIA, OFFICE

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48.0#	350'	370 Sacks CIRCULATE
12-1/4"	9-5/8"	36.0#	3450'	1150 Sacks CIRCULATE
8-3/4"	4-1/2"	10.5 & 11.6#	8200'	1035 Sacks

Propose to drill a 17-1/2" hole to 350', set 13-3/8" Surface Casing and cement to surface. A 13-3/8", 3000 psi Bradenhead and a 12", 3000 psi Annular Preventer will be installed and tested. Drill a 12-1/4" hole to 3450' and run a suite of Logs to evaluate the San Andres. Run a string of 9-5/8" casing and cement to surface. The 13-3/8" Bradenhead will be removed and 9-5/8", 3000 psi Bradenhead, a 12", 3000 psi Double Ram Preventer and a 3000 psi Annular Preventer will be installed and tested. Drill an 8-3/4" hole to 8200'. Log and evaluate. If productive, run a string of 4-1/2" casing to T.D. and cement. If dry, plug and abandon according to the rules and regulations of the ~~Minerals Management Service~~ Bureau of Land Management and the State of New Mexico.

Bureau of Land Management
Plugged and Plugged Back
7-22-83

Exhibits Attached

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 C. H. Peoples TITLE Regional Drilling Manager DATE 6/29/83
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
 APPROVED BY C. H. Peoples TITLE _____ DATE 7/15/83
 CONDITIONS OF APPROVAL, IF ANY _____