

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 ☐		5. LEASE DESIGNATION AND SERIAL NO. 30-015-20556 Las Cruces 063610	
b. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐		6. IF INDIAN, ALIQUOTED OR TRIBE NAME NA	
2. NAME OF OPERATOR ELWYN C. HALE		7. UNIT AGREEMENT NAME NA	
3. ADDRESS OF OPERATOR c/o L. O. Storm, 2122 Adobe, Hobbs, New Mexico 88240		8. FARM OR LEASE NAME Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1650 feet FSL & 1800 feet FWL, Section 22, T-20-S, R-30-E, NMPM At proposed prod. zone Same		9. WELL NO. 2	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Approx. 20 miles NE of Carlsbad, New Mexico		10. FIELD AND POOL, OR WILDCAT Dos Hermanos - Morrow Gas Pool (Extension)	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. line, if any) 1650 feet		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 22, T-20-S, R-30-E, NMPM	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1500' WSW of Hale Fed. No. 1		12. COUNTY OR PARISH Eddy	
16. NO. OF ACRES IN LEASE 1040		13. STATE N. Mex.	
17. NO. OF ACRES ASSIGNED TO THIS WELL 640 (Pending)		20. ROTARY OR CABLE TOOLS Rotary 0 to 12,500 feet	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3298feet (Ground)		22. APPROX. DATE WORK WILL START* Upon approval	

PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
20-inch	16-inch	65 lb. H-40	450 feet	500 sx - cem. to surface
15-inch	11-3/4-inch	42 lb. H-40	1,750 feet	1050 sx - cem. to surface
10-5/8-inch	8-5/8-inch	24 & 32 lb. J	4,100 feet	1200 sx - cem. to surface
7-7/8-inch	5-1/2-inch	17 & 20 lb. N	12,500 feet	950 sx - fill to 9000'
2-3/8-inch	Tubing	4.7 lb N-80	12,300 feet	Landed on packer

It is intended to cement to surface the 16-inch, 11-3/4-inch and 8-5/8-inch casing strings. Drilling, casing and cementing procedures will be in conformance with New Mexico Oil Conservation Commission Order No. R-111-A.

Blowout preventers will be utilized from 1750 feet to total depth.

Copies of this Application have been furnished by Certified Mail to Duval Corporation and Potash Corporation of America, Carlsbad, New Mexico.

Note: The Top and Base of Salt in Hale Federal Well No. 1, located 1980' FSL and 1980' FEL of Sec. 22, T-20-S, R-30-E, NMPM, were found at 520 feet and 1645 feet respectively.

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** *L. O. Storm* - L. O. Storm **TITLE** Professional Engineer **DATE** Dec. 20, 1971

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: