

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. SF-078016-SF-078502-A		
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
2. NAME OF OPERATOR Jerome P. McHugh			7. UNIT AGREEMENT NAME		
3. ADDRESS OF OPERATOR 930 Petroleum Club Bldg., Denver, Colorado			8. FARM OR LEASE NAME Hardie		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 800' fs1 1190' fw1 Sec. 24 T29N R8W			9. WELL NO. 4		
At proposed prod. zone Same as above			10. FIELD AND POOL, OR WILDCAT Basin - Dakota		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 11 Miles east Blanco, New Mexico			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 24-29N-8W N80PH		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 800'			12. COUNTY OR PARISH San Juan		
16. NO. OF ACRES IN LEASE			13. STATE NM		
17. NO. OF ACRES ASSIGNED TO THIS WELL 320			19. PROPOSED DEPTH 7625'		
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.			20. ROTARY OR CABLE TOOLS Rotary		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6373 gr. 6386 RKB			22. APPROX. DATE WORK WILL START* 9/10/67		

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	32.30#	200'	150 cu. ft.
8 3/4"	7"	23#	3300'	600 cu. ft.
6 1/4"	4 1/2"	10.50#	7625'	500 cu. ft.

Plan to spud 12 1/4" hole and drill w/mud to 200' and set 9 5/8" surface csg. cemented to surface.

An 8 3/4" hole will then be drilled to a depth of 3300' w/mud and 7" csg. set and cemented to surface.

A 6 1/4" hole will then be drilled w/gas to a total depth of approximately 7625' and 4 1/2" csg. run and cemented w/500 cu. ft. of cement.

The Dakota formation will then be selectively perforated & S.W.F.

The well will then be "cleaned up" and tbg. run.

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. Original signed by T. A. Dugan
SIGNED _____ TITLE Consulting Engineer DATE 9/2/67

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY
FARMING, N. M.

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-128
Effective 1-1-65

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

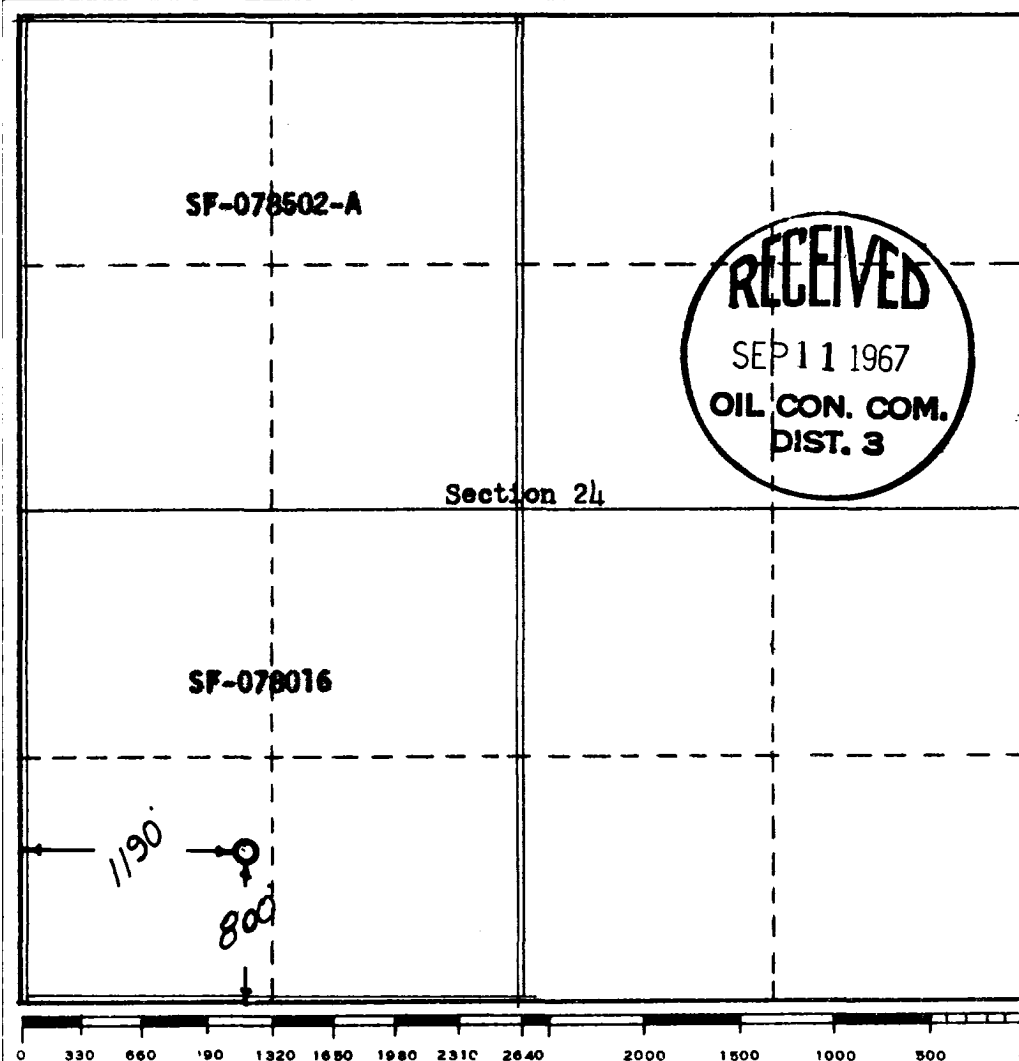
Operator Jerome P. McHugh		Lease Hardie		Well No. 4
Unit Letter M	Section 24	Township 29 North	Range 8 West	County San Juan
Actual Footage Location of Wells: 800 feet from the South line and 1190 feet from the West line				
Ground Level Elev. 6373	Producing Formation Dakota	Pool Basin	Dedicated Acreage: 320 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 **Communitization**

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



CERTIFICATION

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

Original signed by **T. A. Dugan**

Name
T. A. Dugan

Position
Consulting Engineer

Company
Jerome P. McHugh

Date
Sept 9/7/67

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
September 4, 1967

Registered Professional Engineer and Land Surveyor
3034

Certificate No. **3034**

