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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

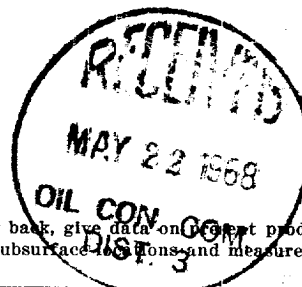
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. Cont. #120	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache	
2. NAME OF OPERATOR Jerome P. McHugh			7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 930 Petroleum Club Bldg., Denver, Colo.			8. FARM OR LEASE NAME Jicarilla	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface 1530' fs1 900' fw1 At proposed prod. zone			9. WELL NO. 4	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*			10. FIELD AND POOL, OR WILDCAT Basin Dakota	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 900'			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 31, T26N, R4W	
16. NO. OF ACRES IN LEASE 120			12. COUNTY OR PARISH Rio Arriba	
17. NO. OF ACRES ASSIGNED TO THIS WELL 322.80			13. STATE N. M.	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 7500'			19. ROTARY OR CABLE TOOLS Rotary	
20. ELEVATIONS (Show whether DF, RT, GR, etc.) 5724' Gr.			21. APPROX. DATE WORK WILL START* 5/22/68	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	200'	150 sx.
7 7/8"	4 1/2"	10.5 & 11.6#	7500'	1800 cu. ft.

A 12 1/4" hole will be spudded and drilled to 200', 8 5/8" surface csg. will be run and cemented to surface. A 7 7/8" hole will then be drilled to sufficient depth to test the Dakota formation, approx., 7500'. If commercial production is indicated 4 1/2" production casing will then be run and cemented in three stages. The first stage will be cemented w/200 sx.; the second stage through stage tool below Mesa-verde w/660 cu. ft. and the third stage through stage tool below Pictured Cliffs w/900 cu. ft. The Dakota formation will then be SWF, tbg. run and the well completed.



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on deepest productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface formations and measured and true vertical depths. Give blowout preventer program, if any.

24. Original signed by T. A. Dugan Consulting Engineer 5/20/68
SIGNED _____ TITLE _____ DATE _____

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY [Signature] TITLE _____ DATE MAY 21 1968
CONDITIONS OF APPROVAL, IF ANY: _____

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

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.

**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.

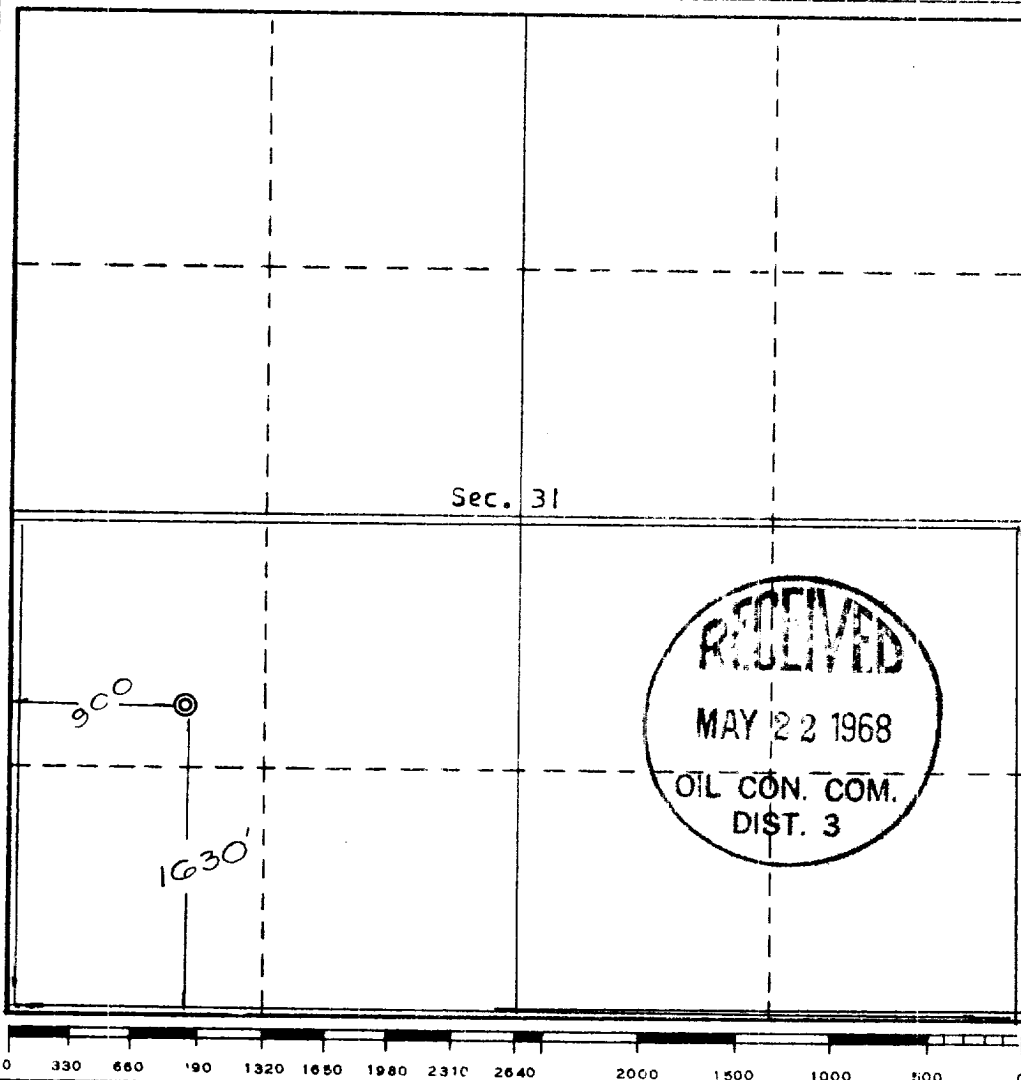
Operator JEROME McHUGH			Lease 51447111		Well No. 4
Unit Letter L	Section 31	Township 26 North	Range 4 West	County Rio Arriba	
Actual Footage Location of Well: 1630 feet from the South line and 900 feet from the West line					
Ground Level Elev. 6724	Producing Formation Basin Dakota		Pool	Dedicated Acreage: 322.80 Acres	

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, 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
Thomas A. Dugan
Position
Consulting Engineer
Company

Jerome P. McHugh
Date

5/20/68

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
April 4, 1968

Registered Professional Engineer and/or Land Surveyor

E. F. Caldwell
Certificate No. **3602**