

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

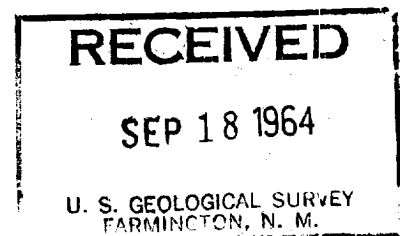
1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-383
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Injection Well SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
2. NAME OF OPERATOR Murphy Oil Corporation		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR 200 Jefferson Avenue, El Dorado, Arkansas		8. FARM OR LEASE NAME Navajo Tribal "A"
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 2474' from the South line and 133' from the East line of Section 18-T32N-R17W At proposed prod. zone Same		9. WELL NO. 18
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*		10. FIELD AND POOL OR WILDCAT Many Rocks Gallup Lower Gallup
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. line, if any)	16. NO. OF ACRES IN LEASE	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 18-T32N-R17W
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 950'	19. PROPOSED DEPTH 1520'	12. COUNTY OR PARISH San Juan
21. ELEVATIONS (Show whether DF, RT, GR, etc.) Unknown 5388' GR		13. STATE New Mexico
20. ROTARY OR CABLE TOOLS Rotary		17. NO. OF ACRES ASSIGNED TO THIS WELL
22. APPROX. DATE WORK WILL START* As soon as approved		

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9"	7"	20#	60'	Cement to surface
6 1/8"	4 1/2"	9.5#	1520'	33 sacks

Plan to cut one 20' core in Lower Gallup Formation with air and/or oil, cement 4 1/2" casing with a sufficient amount of cement to cover approximately 250' above the producing zone, perforate with abrasijet, and fracture with 3,000# sand and lensa crude or treated water.

Subject to state approval
of unorthodox location



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.

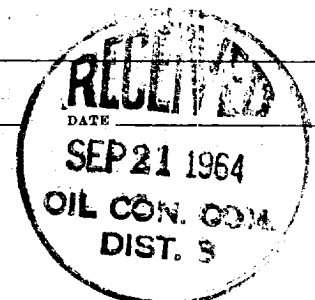
24. SIGNED L. L. Duncan TITLE Prod. Supt.-Direct Operations 9-16-64
(This space for Federal or State office use)

PERMIT NO. 6110 APPROVAL DATE

APPROVED BY for NSC TITLE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side



NEW MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Dedication Plat

Section A.

Date September 15, 1964

Operator MURPHY OIL CORPORATION Lease Navajo "AA"
 Well No. 18 Unit Letter I Section 18 Township 32 NORTH Range 17 WEST NMPM
 Located 2474 Feet From the SOUTH Line, 133 Feet From the EAST Line
 County SAN JUAN G. L. Elevation 5388 Dedicated Acreage _____ Acres
 Name of Producing Formation Gallup Pool _____

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below?
 Yes X No _____
2. If the answer to question one is "no", have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes _____ No _____. If answer is "yes", Type of Consolidation, _____
3. If the answer to question two is "no", list all the owners and their respective interests below:

Owner

Land Description

Section B.

Note: All distances must be from outer boundaries of section.

This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

Murphy Oil Corporation

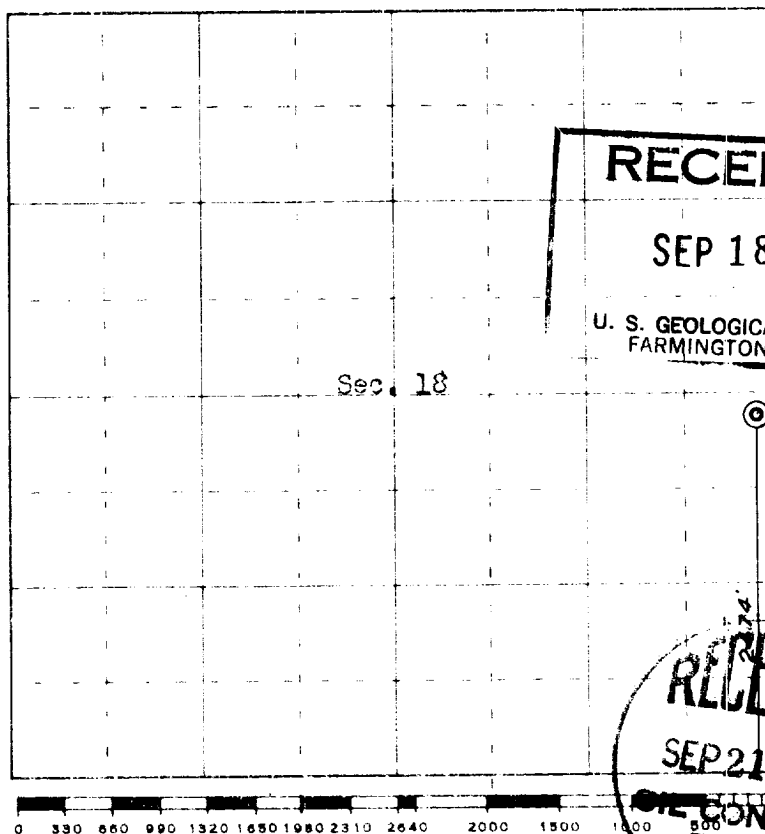
(Operator)

(Representative)

200 Jefferson Avenue

(Address)

El Dorado, Arkansas



Scale 4 inches equal 1 mile

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Date Surveyed August 15, 1964

James P. Leese
 Registered Professional Engineer and/or Land Surveyor
 James P. Leese, N. Mex. Reg. No. 1463

