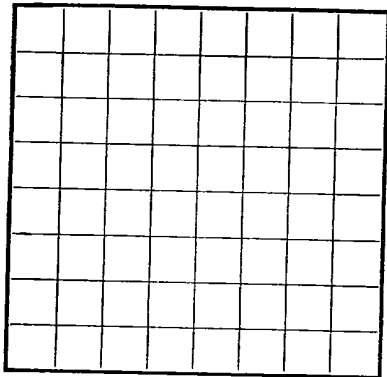




LOCATE WELL CORRECTLY

U. S. LAND OFFICE FarmingtonSERIAL NUMBER NM 016319

LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYRECEIVED
FEB 1 1961U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

LOG OF OIL OR GAS WELL

Company The Ohio Oil Company Address P.O. Box 120, Casper, Wyoming
Lessor or Tract Ohio Government Haines Field Cornfield Canyon State New Mexico
Well No. 1 Sec. 20 T. 15N R. 1E Meridian County Sandoval
Location 990 ft. N. of S Line and 990 ft. E. of W Line of Sec. 20 Elevation 5761 Grd.
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed H. J. QuentDate January 25, 1961Title Division Production Supt.

The summary on this page is for the condition of the well at above date.

Commenced drilling 10-27, 19 60. Finished drilling 12-24, 19 60.

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from _____ to _____ No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From	To	
13-3/8	48	8rd	OAL	89.54					
13-3/8	54.5	8rd	OAL	262.04	Guide				
HISTORY OF OIL OR GAS WELL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	365.38'	300 sacks	Halliburton		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 6190 feet, and from _____ feet to _____ feet

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing _____, 19____

The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
			Log Tops:
			Triassic 150'
			Permian 2250'
			Shinarump 2165'
			Yeso 2422'
			Abo 2960'
			Pennsylvanian 5570'

ՀԻՄՈՒՆԻ ԳԶԻՐՈՒ 15-17-ՍՈՒՆ
ԵՐԵՎԱՆԻ ՔԱՆԱԿԱՆ ԴԱՐԱՆ 13-15-1922Կ

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 ☐

b. TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ OTHER ☒ **RE-ENTER OLD WELL** SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR
GAS
SOUTHERN UNION PRODUCTION COMPANY

3. ADDRESS OF OPERATOR
P. O. Box 808, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface
990 FT. FROM THE SOUTH LINE AND 990 FT. FROM THE WEST LINE
At proposed prod. zone
GLORIETA 2350 - 2995 FT., AND 3160-3400 FT.

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
FIVE MILES WEST OF SAN YSIDRO, NEW MEXICO

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any)
SECTION LINE 990 FT. UNIT - 330 FT.

16. NO. OF ACRES IN LEASE
1600

17. NO. OF ACRES ASSIGNED TO THIS WELL
10 acres - 9/16 5/16

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
NO WELLS

19. PROPOSED DEPTH
3400

20. ROTARY OR CABLE TOOLS
ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

22. APPROX. DATE WORK WILL START*
OCTOBER 26, 1971

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
			3121 1971	
			OIL CON. COM. DIST. 3	

SOUTHERN UNION PRODUCTION COMPANY PROPOSES TO RE-ENTER THE PLUGGED AND ABANDONED OHIO OIL COMPANY'S GOVERNMENT-WAINES No. 1 WELL LOCATED 990 FEET FROM THE SOUTH LINE AND 990 FEET FROM THE WEST LINE OF SECTION 20, TOWNSHIP 15 NORTH, RANGE 1 EAST, SANDOVAL COUNTY, NEW MEXICO. IT IS OUR INTENTION TO CLEAN OUT TO A DEPTH OF APPROX. 3500 FEET, RUN ELECTRIC LOGS AND TEST ZONES 3160 - 3400 FT. AND 2350 - 2995 FEET. THE WELL WAS DRILLED IN 1960. 13-3/8" SURFACE CASING WAS SET AND CEMENTED WITH 300 JACKS AT 365 FEET AND A 7-7/8" HOLE WAS DRILLED TO A TOTAL DEPTH OF 6830. THE WELL WAS PLUGGED BY SETTING 90 BACK CEMENT PLUGS AT 5435 - 5600 FT. 2085 - 2590 FT. AND 2035 - 2200 FT. A BAKED MAGNESIUM BRIDGE PLUG WAS SET AT 330 FEET IN THE 13-3/8" SURFACE CASING AND A 10 BACK CEMENT PLUG WAS SPOTTED AT THE TOP. PLUGGING WAS COMPLETED ON DECEMBER 24, 1960.

RECEIVED

OCT 13 1971

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
B. R. VANDERSLICE
SIGNED **B. R. VANDERSLICE** TITLE **AREA SUPERINTENDENT** DATE **OCTOBER 13, 1971**
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

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 plat, 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.