

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-031-20276

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 ☒ Test
Stratigraphic
SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR
Shell Oil Company, Rocky Mountain Division

3. ADDRESS OF OPERATOR
1700 Broadway, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface
400' FNL and 150' FNL Section 18
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately six miles NE

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any)
150'

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
approx. 2 miles

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6018.0 GL

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

As per attached drilling prognosis and survey plat.

Verbal approval to drill was obtained from Mr. Phil McGrath, District Engineer.

THIS WELL IS BEING DRILLED AS A STRATIGRAPHIC TEST-HOLE FOR GEOLOGICAL INFORMATION ONLY AND UNDER NO CIRCUMSTANCES WILL IT BE PRODUCED

Please forward two (2) approved copies to:

Oil and Gas Conservation Commission Office
State Land Office Building
Santa Fe, New Mexico 87501

RECEIVED

SEP 1 1971

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

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
J. C. HOWELL
SIGNED TITLE Division Operations Engr. DATE August 27, 1971

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

APPROVED BY TITLE DATE
CONDITIONS OF APPROVAL, IF ANY:

Letter copy 9-8-71

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.

DRILLING WELL PROGNOSIS

WELL NAME Federal 11X-18
 TYPE WELL Exploration Department
 FIELD/AREA Boxer

APPROX. LOCATION (SUBJECT TO SURVEY) NW NW SECTION 18-T20N-R13W, McKinley County, New Mexico

EST. G. L. ELEVATION 6100 PROJECTED TD 3500 OBJECTIVE Morrison

HOLE SIZE	CASING PROGRAM	LOGGING PROGRAMS	MAX DEV.	DEPTHS AND FORMATION TOPS	SPECIAL INSTRUCTIONS
2 1/4"	8 5/8"	200' ±	1°	Mencfee sfc	SAMPLES: Sfc-2000' 30' 2000'-TD 10'
7/8"	5 1/2" (if needed)	IES BHC GR Sonic Density	1-3/4°/1000' interval	Pt. Lookout 1100 (+5000)	CORES: 200'
				Upper Mancos 1350 (+4750)	DST'S: None
				Dilco 2300 (+3800)	DEVIATION CONTROL Dogleg severity not to exceed 1 1/2°/100' interval
				Gallup 2400 (+3700)	CEMENT Circulate sfc csg with Class "G" or "A" (Accelerate for 500 psi comp. strength in 8 hrs - state regulation)
				Lower Mancos 2450 (+3650)	MUD Surface - 100'
				Dakota 3150 (+2950)	As required for casing 100'-2000'
				Morrison 3400 (+2700)	Water 2000'-TD Low Solids Nondispersed
				TD 3500'	Note: See "Mud Program" for additional details

ORIGINATOR D. E. Smith DATE 8/9/71

ENGINEERING APPROVAL
 Operations
 EXPLORATION
 Petro-Team

OPERATIONS APPROVAL

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

All distances must be from the outer boundaries of the Section

Operator

Well No.

SHELL OIL COMPANY

Section (Township) Range

D

18

20 NORTH

13 WEST

McKINLEY

Acres of Section of Well

400

feet from the **NORTH**

line

150

feet from the **WEST**

line

Original Level Elevation

Depth of Avenue

6018.0

Acres

1. Outline the acreage dedicated to the subject well in colored pencil or ballpoint marks on the plat below.
 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (for recording marking 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, forced pooling, etc?
- Yes ☐ No ☐ If no well is "yes," type of consolidation _____
- If answer is "no," list the owners and their descriptions which have actually consolidated. (Use reverse side of this form if necessary) _____
- No allowable well be assigned to the well until all interests have been consolidated. (by communitization, unitization, forced pooling, or otherwise) and a unitization or 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.

Name _____

Position _____

Company _____

Date _____

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.

19 August, 1971

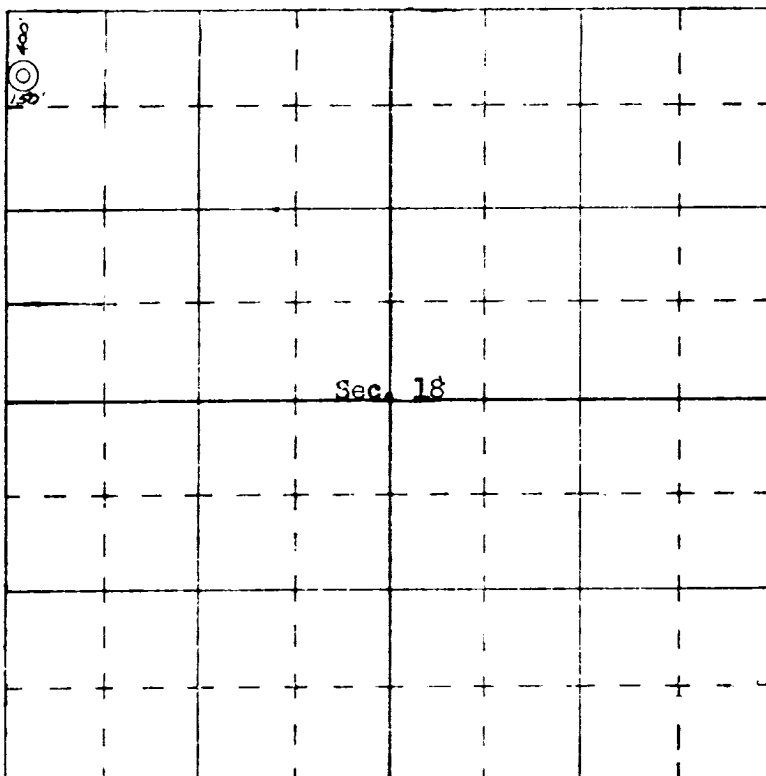
Date Surveyed

James P. Lense
Registered Professional Engineer
and/or Land Surveyor

JAMES P. LENSE

1463

Certificate No.



SCALE—4 INCHES EQUALS 1 MILE