

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

Injector

SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Shell Oil Company

3. ADDRESS OF OPERATOR

P.O. Box 991, T&C Houston, TX 77001

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

1300' FSL and 1050' FEL, Sec. 30, T18S, R38E

At proposed prod. zone

same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

3/4 mile W of Hobbs, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

10.649

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

4,350'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

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

3,645.85 GR

22. APPROX. DATE WORK WILL START*

July

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
20"	16"	conductor	40'	40 sx Redi Mix
12 1/4"	8 5/8"	24# K-55 STC	1,600'	535 sx Lite + 2% CaCl ₂ to surface
7 7/8"	5 1/2"	14" K-55 STC	4,350'	250 sx Class C + 2% CaCl ₂
				270 sx Lite + 165 sx Class C

Attachments:

Survey Plat
Drilling Prognosis
Casing & Cementing Program
BOP Assembly Drawing
Choke Manifold Drawing
Rig Layout Drawing
Topographical Map
Multipoint Land Use Plan
Temporary Test Facilities Layout (No testing planned)
Ownership Map

RECEIVED

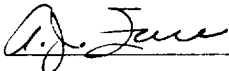
JUL 3 1980

U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

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



A.J. Fore

TITLE

Senior Engr. Tech.

DATE

6/30/80

(This space for Federal or State office use)

PERMIT NO.

APPROVED

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL

AUG 8 1980

TITLE

DATE

DISTRICT SUPERVISOR

*See Instructions On Reverse Side

MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section

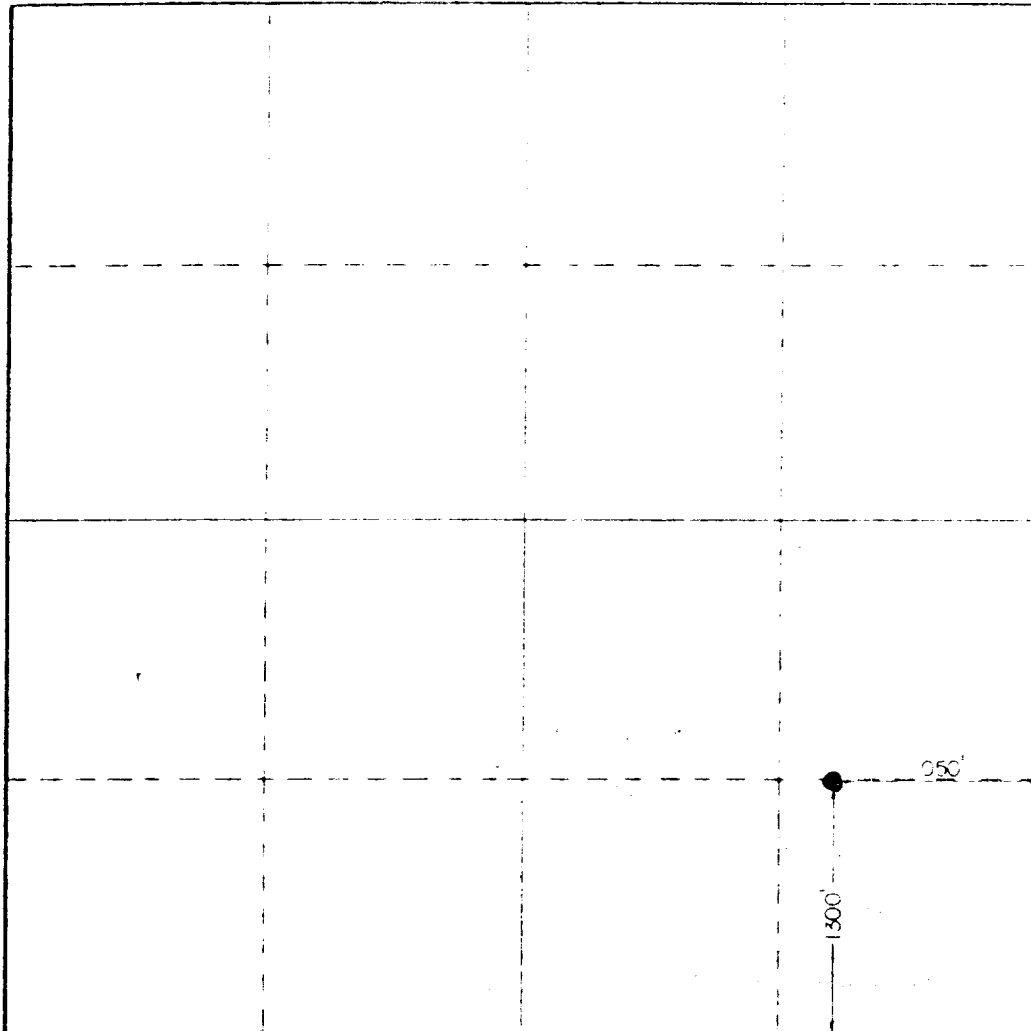
Lessee Shell Oil Co.		Section North Hobbs 1311		Sec. 30	442
Block P	Range 20	Meridian 18 South	Range 28 East	Twp	
Actual Entrance Location of Well:					
1300 feet from the South line and		1050 feet from the East line			
Ground Level Elev.	Producing Formation (G/SA)		Pool Hobbs (G/SA)	Lease Area Acres	
3643.85					

1. Outline the acreage dedicated to the subject well by colored pencil or barbed 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 Unitization

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.

A. J. June

Senior Engr. Technician

Shell Oil Company

5-7-80

I hereby certify that the well location shown on this plat was plotted from field notes or 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.

12-10-1979

By: *John W. West*
John W. West, District Engineer

Approved by: John W. West

676

Filed: J. E. Dixon 3234

DRILLING PROGNOSIS

WELL: 30-442P W.O. NO. 968661
 LOCATION: 1300' FSL & 1050' FEL, Sec. 30, T-18-S, R-38-E, Lea County, New Mexico FIELD: Hobbs-Grayburg-San Andres
 OBJECTIVE: Grayburg-San Andres EST. ELEVATION: 3656'

EVALUATION			GEOLOGY	WELL DEPTH	HOLE SIZE	CASING & CEMENT	MUD PROGRAM
DRLG. TIME & SAMPLES	ELEC. SURVEYS	MUD LOGGER	SIGNIFICANT FORMATIONS				
2' Drlg. Time 10' Samples BHC/CAL/GR TD - Surf. SNP/GR, SDLL, MLL/ML TD - 2450'			40' — Ogallala 50' Fresh H ₂ O Zone (+3606') Chinle (Red Beds) 320' (+3336') 350' —		12 1/4"	16" Conductor Cmt. w/Redimix	Spud Mud Wt. 8.7-9.2 ppg, Vis. 33-35
					8 5/8"	24# K-55 ST&C Cmt. to Surface	
						Min. BOP-Class 3MR-10-Rd	Native Mud Wt. 9.2-9.4 ppg, Vis. 32-34
			Rustler 1570' (+2086') Salt 1670' (+1986')				
			Yates 2670' (+986') Bowers (Queens) 3145' (+511') Grayburg U 3891' (-235') Grayburg L 3986' (-330') San Andres Zn I 4011' (-355')		7 7/8"		Saturate Brine Wt. 10.2-10.5 ppg Vis. 32-34, No. F.L. Control
			SA Zn II 4074' (-418') SA Zn III U 4146' (-490') SA Zn III L 4251' (-595')				Salt Gel, Starch Mud Wt. 10.2-10.4 ppg, Vis. 36-40, FL <10 cc
			TD 4350' (-694')			5 1/2" 14# K-55 ST&C 2 Stage Cmt. to Surface	

DRILLING DATA
NORTH HOBBS UNIT 30 442
LEA COUNTY, NEW MEXICO

CASING AND CEMENT:

16" conductor set at 40'+. Cement with Redimix.

8 5/8" 24# K-55 ST&C surface casing set at 1,600'+ to case off fresh water zones and the Red Beds. Circulate to surface with 535 sxs of Halliburton Light + 2% CaCl₂ + 1/4 #/sx Flocele at 12.7 lbs/gal and yielding 1.84 cu.ft./sx, and tail-in with 250 sxs Class 'C' + 2% CaCl₂ at 14.8 lbs/gal and yielding 1.32 cu.ft./sx.

5 1/2" 14# K-55 ST&C production casing set at 4,350' TD. Cement with 270 sxs of Halliburton Light as above and 165 sxs Class 'C' + 5#/sx salt at 14.9 #/gal and yielding 1.35 cu.ft./sx. TOC will be at 1,500' or 100' into the 8 5/8" casing. Slurry volumes will be calculated from the caliper survey + 30% excess.