SUBMIT IN TRIPI -- ATE*

(Other instructic reverse side)

WINT TO U.C.

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

	GEOL	CICAL SUBVEY	/	1 C C		anagrafior	AND SERI	AL NO.	
GEOLOGICAL SURVEY HOBBS OFFICE O. C. C. APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK						6. IF INDIAN, ALLOTTEE OR TRIBE NAME			
	N FOR PERMIT	TO DRILL, DI			1. 1.		A		
1a. TYPE OF WORK	RILL 🛣	DEEPEN [MAY 19 10 08 PLUG BA		7. UNIT A	GREEMENT	NAME		
b. TYPE OF WELL									
OIL GAS WELL OTHER ZONE ZONE					8. FARM OR LEASE NAME				
2. NAME OF OPERATOR						9. WELL NO.			
3. ADDRESS OF OPERATOR						**************************************	7 4 5		
				.*	10. FIELD	AND POOL,	OR WILDCA	AT	
Box 1031. 4. LOCATION OF WELL (1) At surface	Indeed me ted								
At surface 660' FSL & 1980' FKL of Sec. 6						11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA			
At proposed prod. zo	one								
14 DISTANCE IN MILES	AND DIRECTION FROM NE.	APEST TOWN OR POST	OFFICE*		Sec. 6	T-19-	B. R-	2-E	
14. DISTANCE IN MILES	AND DIRECTION FROM NE.	AREST TOWN OR FOST	OBEICH	ģ.	12. COUNT	I UR PARIS.	H 13. STA	V.T.E.	
15. DISTANCE FROM PRO		1:	16. NO. OF ACRES IN LEASE	17. No.	OF ACRES AS	SIGNED	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. line, if any)		560'	202.68	тот	HIS WELL	3/01			
18. DISTANCE FROM PRO	POSED LOCATION*		19. PROPOSED DEPTH	20. ROTA	RY OR CABLE	TOOLS	***		
OR APPLIED FOR, ON T	DRILLING, COMPLETED, HIS LEASE, FT.	None	11,800		Rete				
21. ELEVATIONS (Show w	hether DF, RT, GR, etc.)			₩. :	- 22. APPI	OX. DATE W	ORK WILL	START*	
3640 DI	P (Estimated)				1	¥ 19,	1964		
26.		PROPOSED CASING	AND CEMENTING PROG	RAM					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	T SETTING DEPTH		QUANT	ITY OF CEMI	ONT		
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zone. If proposal is to	drill or deepen direction		n or plug back, give data on lata on subsurface locations						
preventer program, if a 24.	ny.					- 			
	De Paris					مارسون			
SIGNED	er rang	TITL	District Product	cton Sup	DA1	Е	13, 19	104	
(This space for Fed	leral or State office use)			į.					
PERMIT NO.			APPROVAL DATE	ů.	· P				
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APPROVED BY		TITL	3		- DAT	501	IFD	-	
CONDITIONS OF APPRO	OVAL, IF ANY:				APY	MU,		1	
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*See Instructions On Reverse Side

WHA TS A. R. BROWN DISTRICT ENGINEER

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

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 total the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices. State or Federal office for specific instructions.

Hems 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.

U.S. GOVERNMENT PRINTING OFFICE: 1963-O-685231

HEW MEXICO OIL CONSERVATION COMMISSION OFFICE O. C. C. Påd k **Revised 5/1/57** WELL LOCATION AND ACREAGE DEDICATION PLAY SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVENSE SAME ATT ALL SECTION A Operator Lease Vell No. TEMPESO OIL COMPANY USA CONTINENTAL 1 Unit Laster Township Reage County 19 Sourk 32 EAST LEA Actual Feetage Location of Vell: feet from the SOUTH 1980 line and feet from the EAST Producing Formation Pool Dedicated Acreage: Acres 1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES ______NO ___ ube has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and enather. (65-3-29 (e) NMSA 1935 Comp.) 2. If the ensurer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or wise? YES _____ NO ____. If answer is "yes," Type of Concelidation 3. If the enswer to question two is "no," list all the owners and their respective interests below: Lead Description SECTION B CERTIFICATION I hereby certify that the information in SECTION A above is true and a plete to the best of my know belief. 676 MEXIC I hereby certify that the well leastion shows on the plat is SECTION B mad plotted from field notes of actual surveys made by me or under my supervision, and that the made in stup and correct to the best of m and belief. MAY 13, 1964 Registe sed Professional 330 660 990 ARRO MAR AR 2000

TENNECO OIL COMPANY DRILLING PROGNOSIS

LEASE: USA-Continental

WELL NO.: 1

DISTRICT: Midland

FIELD: Lusk Strawn

PROJECTED TD: 11,800

ESTIMATED ELEVATION: 3640 DF

LOCATION: 1980 FEL & 660' FEL of Section 6, T-19-8, R-32-E, Les County, New Mexico

DETLING, CASTIG AND CENCENTING:

1. Drill 17 1/2" hole to approximately 650'.

- 2. Cement 13 3/8", 48f/ft, H-40, ST&C ensing 6650' w/sufficient 50-50 Incor Possix w/25 CaCl₂ to circulate. Run bar centralizers on float shoe and bottom 2 joints. A guide shoe and insert float will be run.
- 3. If float valve holds, release pressure, WOC 6 hrs, install B.O.P., and nipple up.
- 4. After HOC 12 hrs., pressure test esg w/1000 psi for 30 min. and drill out.
- 5. Drill 11" hole to approximately 3800'.

NOTE: Loss of circulation may be encountered between 3000' and 3500'. If severe at this location, hole may be "dry drilled" to intermediate point or air equipment may be used. Do not exceed 20,000 bit weight and 60 rpm until let three drill collars are below casing shoe. Air equipment, if used, shall be at company expense.

6. At Intermediate Point, Run 8 5/8" (D) casing as follows:

0-3800' - 32#/ft., J-55, 8TMC

A guide shoe will be used with insert float in second collar. Weld-on bar centralisers will be run on shoe and first two collars.

- 7. Coment with approximately 200 sx 50-50 Pozmix-Incor w/6% gel followed by 100 sx Incor w/2% gel. Exact coment volume will be determined by caliper survey. Coment must fill to base of salt section. All coment to contain 2% calcium chloride. Condition mud ahead of coment with 1% Soldium Bichromate & 0.2% caustic sod soda per bbl.
- 8. If float holds, land casing as comented, release pressure and nipple up BOP. WOC 12 hrs., pressure test casing to 1000 psi for 15 min. and drill out cement. Do not exceed 20,000 weight on bit and 60 rgm until 1st three drill collars are below casing shoe.
- 9. Drill 7 7/8" hole to approximately 11,800'.
- 10. Run 4 1/2" casing as follows:

0 - 3,300' - 11.6 M-80, IFRC 3300 - 8,000' - 11.6 J-55, STAC 8000 -11,800' - 11.6 M-80, IFRC

Page Tvo

(10. cont.)

Casing will be run with float shoe, differential fill-up collar and sufficient reciprocating scratchers and centralizers to cover productive interval.

- 11. Cement w/sufficient 50-50 Poznix "S" cement w/0.4% HR-4 to cover all zones of interest. 2 sx of lime in 10 bbl. water ahead of cement. Add 2 sx sodium Bichromate to mud system prior to running casing. Tail in with latex to cover 150 feet above pay zone. Approximately 60 sx required.
- 12. If floats hold, land casing as cemented, WOC 8 hrs., run temperature survey. (Well may be completed with rig over hole).

DRILLING FLUIDS PROGRAM:

- 1. Surface Hole = 0 to 650'. Spud mid. Add gel and lime as needed to clear hole. Use fiber for loss of circulation as needed.
- 2. Intermediate Hole 650' to 3800'. Saturated brine water. Add water to maintain minimum viscosity necessary. Pretreat system w/fiber (6 to 8 pounds per bbl.) at 3000'. If hole gives trouble, lower water loss to 20 cc to run casing.

NOTE: If severe loss of circulation is encountered below 3000', hole will be "dry drilled" to intermediate point or air equipment may be installed. Drilling should not be stopped to combat loss of circulation.

3. Below intermediate:

3800' to 11,200': Clear water treated with surfactant, Some treatment w/paper may be required to reduce losses.

11,200' to ID: Use low-solids, CMC system with the following properties:

Weight: 9.5 to 9.8 Viscosity: 38-42 Water loss:20-25

Add chemicals and barite as required to maintain good hole conditions to total depth.

DRILLING TIME:

- 1. A recorder with torque, hook load, pump pressure, and rate of penetration will be required.
- 2. Record 10' drilling time from Kelly measurements from surface to TD on company forms.

DRILL PIPE MEASUREMENTS:

1. Strain strap drill pipe at all casing points, coring points, and TD.

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DBO:

DRILLING SAMPLES:

- 1. Two sets of 10' samples will be caughts, washed, sacked and labeled in bundle of 100' from surface to TD.
- 2. Circulating and additional samples will be obtained as directed.
- 3. Quart samples will be obtained of all fluids recovered on DOT.

DEVIATION:

- 1. Deviation surveys shall be taken on every trip or every 500', whichever is first.
- 2. Marimum deviation shall be glowed as follows:

0 = 2000' : 20 8000 = 10,000' : 60 2000 = 4000' : 30 10000 = 30 : 70 4000 = 8000' : 50

Deviation in the surface hole shall not exceed 10.

3. Deviation should not change more than $1 \, 1/2^\circ$ in any 100' interval. If deviation change exceeds $1 \, 1/2^\circ$ per 100', string reaser shall be run to wipe out dogleg. If deviation change exceeds 2° per 100', hole shall be plugged back and straightened.

BLOW OUT PREVENTORS:

- 1. Series 900 or better, double man, manual and remote control preventors shall be used from base of surface casing to ID.
- 2. BOP shall be checked daily and reported on drilling report.
- 3. A rotating drilling head shall be used during any air or gas drilling.

DAILY DRILLING REPORT:

- 1. The AAODC drilling form shall be used.
- 2. This report shall be completely filled out except for erew hours.
- 3. Morning reports shall be made to the Midland District Office each weeklay morning between 8:00 A.M. and 8:30 A.M. CST.

DRILL STIM TESTING:

One DET may be taken in the following intervals:

Stream - 11,450' to 11,650'

Added tests may be taken at discretion of wellsite geologists.

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LOGGING:

- L. Integrated GR Sonic Logs intermediate to TD.
- 2. Induction ES through detailed sections as specified by wellsite engineer.

FORMATION TOPS (APPROXIMATE):

T/Anhydrite	9001
T/Salt	1,200'
B/Salt	2,700'
T/Yates	2,9801
T/Seven Rivers	3,250'
T/Delaware	5,6501
T/Bone Springs	7,350'
T/Wolfcamp	10,550'
T/Strawn	11,385°
T/Strewn: Beef	11,515*

A. J. Carnes S. T. Desadie

INSTRUCTIONS FOR DRILLING OF WELL

- 1. Keep hole full at all times.
- 2. If sticking conditions occur, do not pull over half the weight of the drill string past its total weight before contacting company man.
- 3. Check recorder daily and make sure it is recording on all pens accurately.
- 4. Be sure all fires and lights are out while drill stem testing.
- 5. Fill out AAODC report completely, enter all mud used, see that break down of hours is complete and accurate.
- 6. Do not waste water or mud, both items are very expensive. See that mud is stacked orderly at all times, if a sack is broken, use it the first opportunity.
- 7. If unusual conditions are noticed with the hole, be sure the company man, tool pusher and all drillers are notified.
- 8. Use blackboard or tablet to leave any information or orders on.
- 9. Check blow out equipment daily, do not let water accumulate in closing unit or lines.
- 10. Drilling from 2800' intermediate point don't use float in drill pipe.
- 11. From 2800' (intermediate point) reduce lowering drill pipe into hole rate to one minute/stand.