SUBMIT IN TRIPLICATES

(Other instruct reverse side,

Form approved. Budget Bureau No. 42-R1425.

4000

DISTRICT ENGINEER

UN. LD STATES DEPARTMENT OF THE INTERIOR

LEASE DESIGNATION AND SERIAL NO. **GEOLOGICAL SURVEY** *Ĉ*C 071857-b) 6. IF INDIAN, ALLOTTER OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL. DEEPEN. OR PLUG BACK 53 1a. TYPE OF WORK 7. UNIT AGREEMENT NAM DRILL X DEEPEN [PLUG BACK b. TYPE OF WELL OIL SINGLE ZONE MULTIPLE Zone WELL X 8. FARM OR LEASE NAME 2. NAME OF OPERATOR USA-Continental "B" Unit 9. WELL NO, Tenneco Oil Company 3. ADDRESS OF OPERATOR 10, FIELD AND POOL, OR WILDCAT Box 1031, Midland, Texas 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) Undesignated 1980' FNL & 1980' FWL of Section 6 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA At proposed prod. zone Sec.6, T-19-S, R-32-E 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 12. COUNTY OR PARISH | 13. STATE Lea New Mexico 15. DISTANCE FROM PROPOSED*
LOCATION TO NEARRST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. line, if any) 16. NO. OF ACRES IN LEARE NO. OF ACRES ASSIGNED; TO THIS WELL 4 5 1980 18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS . . . 5.5 None 11,500' Rotary 21. BLEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START* 23. 71. 1. 11. PROPOSED CASING AND CEMENTING PROGRAM ₹ ... SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT Ξ 33. 98 Meson 3 3 4 1113 ā ... 10 800 See prognosis and plats attached stindatik *a*tip reserg 1999 bibliospie propara 1998 brekenia . Ü IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive sone 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. TITLE Dist. Prod. Superintendent SIGNED (This space for Federal or State office use) PERMIT NO. APPROVAL DATE APPROVED BY CONDITIONS OF APPROVAL, IF ANY :

*See Instructions On Reverse Side

₹	VELI	NEW MEXICO OIL	CONSERVATION D ACREAGE DEI	COMMISSIONUBBS	OFFICE O
	SEE INS	TRUCTIONS FOR COM	PLETING THIS FORM	ON THE REVERSE SID	J. C. C.
O			SECTION A		* 33 AM '6U
Operator TENNI	ECO OIL COMP	ANY	Lease USA Con	TINENTAL "B"	Well No.
Unit Letter	Section	Township	Range	County	1
actual Footage L	6	19 Зоитн	32 EAST	LEA	
1980	feet from the	NORTH line and	i 19 80 fe	et from the WEST	ŀ
round Level Ele-	v. Producing Fo	rmetion	Pool		line Dedicated Acreage:
3655 Ret.	Street	3	Undesignated		40 Acres
enother. (65- If the answer to wise? YES	3-29 (e) NMSA 193, o question one in "1	5 Comp.) no," have the interests answer is "ves." Type	of all the owners been of Consolidationand their respective int	production either for hi consolidated by commun crests below:	
			Land Descrip	×ioa	
		SECTION B			CERTIFICATION
1986	0'		ENGINEER	in SECT plete to the belief. Name Position Company Data I hereby contour on	certify that the information ION A above is true and com- the best of my knowledge and Company As We Im Prode Bursts ertify that the well location the plat in SECTION B was an field notes of actual
330 640 990	1320 NGO 1980	1800 840 8000	STATE ON SURVEYOR	Date Surve SEP' Registered and/or Lan	yed T. 15, 1964 Professional Engineer d Surveyor, JOHN W. WEST

HOBBS OFFICE O. C. C.

DRILLING PROGROSIS

SEP 22 10 53 AM '64

LEASE: USA Continental "B"

WELL NO.: 1

DISTRICT: Midland

FIELD: Lusk Strawn

PROJECTED TD: 11500'

EST. ELEVATION: 3670' DF

LOCATION: 1980' FML & 2310' FWL of Section 6, T-19-S, R-32-E, Les County, Now Mexico

DRILLING, CASING AND CEMENTING:

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

Cement 13 3/8", 48#/ft., H-40, ST&C casing @ 650' v/sufficient 50-50 Incor Pozmix w/2% CaCl to circulate. Run bar centralizers on float shoe and bottom 2 joints. A guide shoe and insert float will be run.

If float holds, release pressure, WCC 6 hrs., install B.O.P., and nipple

up.

After WOC 12 hrs., pressure test csg. w/1000 psi for 30 min. and drill out.

5. Drill 11" hole to approximately 3600'.

MOTE: 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 lat three drill collars are below casing shoe. Air egipment, if used, shall be at company expense.

6. At intersediate point, run 8 5/8" OD csg. as follows: 0 - 3600', 32#/ft., J-55, STRC

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

7. Cement with approximately 200 sx 50-50 Pozmix-Incor w/6% gel followed by 100 sx Incor containing 2% CaClo. Exact cement volume will be determined by caliper survey. Cement must fill to base of salt section. Condition mud ahead of cement with 1# Sodium Richromate and 0.2# caustic soda per bbl.

8. If float holds, land casing as comented, release pressure and nipple up BOP. WCC 12 hrs., pressure test casing to 1000 psi for 30 min. and drill out cement. Do not exceed 20,000# weight on bit and 60 rpm until lat three drill collars are below casing shoe.

9. Drill 7 7/8" hole to approximately 11,500'.

10. Run 4 1/2" casing as follows:

0 - 3300': 11.6 N-80, LT&C 3300 - 8000': 11.6 J-55, ST&C 8000 - 11500': 11.6 N-80, LTCC

5 1/2" casing may be run as follows:

0 - 1800': 17# H-80, LT&C 1800 - 2800': 17# J-55, 14%C 2800 - 5800°: 15.5# J-55, LT&C 5800 - 7600': 17# J-55, LT&C 7600 - 11500': 17# N-80, IARC

Drilling Prognosis USA Continental "B" No. 1 Page Two SEP 22 10 53 MM '64

(10. Cont'd.)

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 Pozzix "S" cement w/0.14 ER-1 to cover all zones of interest. 2 sx of lime in 10 bbls. water ahead of cement.

 Add 2 sx sodium bichromate to mad system prior to running casing.

 Tail in with Latex to cover 150' above pay zones. 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 0-650': Spud mud. Add gel and lime as needed to clear hole. Use fiber for loss of circulation as needed.
- 2. Intermediate Hole 650-3600': Saturated brine water. Add water to maintain minimum viscosity necessary. Pretreat system w/fiber. (6 to 8 lbs./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 3600-11000': Clear water treated with surfactant, some treatment w/paper may be required to reduce losses. Add lime to keep pH above 10.

11000 - T.D.: 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 T.D.

DRILLING TIME:

- 1. A recorder with torque, hook hoad, pump pressure, and rate of penetration will be required.
- 2. Record 10' drilling time from Kelly measurements from surface to T.D. on company forms.

DRILL PIPE MEASUREMENTS: Strain strap drill pipe at all casing points, coring points, and T.D.

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DRILLING SAMPLES:

- 1. Two sets of 10" samples will be caught, washed, sacked and labeled in bundles of 100" from surface to T.D.
- 2. Circulating and additional samples will be obtained as directed.
- 3. Quart samples will be obtained of all fluids recovered on DSF.

DEVIATION:

- 1. Daviation surveys shall be taken on every trip or every 500', whichever is first.
- 2. Maximum deviation shall be allowed as follows:

Deviation in the surface hole shall not exceed 10.

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

BLOW OUT PREVENTORS:

- 1. Series 900 or better, double ram, manual and remote control preventors shall be used from base of surface casing to T.D.
- 2. BOP shall be checked daily and reported on drilling report.
- 3. A rotating drilling beed 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 crew hours.
- 3. Morning reports shall be made to the Midland District Office each weekday morning between 8:00 s.m. and 8:30 s.m. CST.

DRILL STEM TESTIMS: One DSN may be taken in the following intervals:

11000 - 11250°

Added tests may be taken at discretion of vellsite geologists.

LOGGING: 1. Gamma-Ray Sonic from T.D. to base intermediate.

2. Induction ES through detailed sections as specified by wellsite engineer.

SEP 22 10 53 3H 64

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FORMATION TOPS (APPROXIMATE):

T/Anhydrite	970'
T/Salt	20501
B/Salt	2667
T/Yates	2767
T/Seven Rivers	30831
T/Delaware	5240
T/Bone Springs	68601
T/1st Sand	81751
T/2nd Sand	89931
T/3rd Sand	9770'
T/Wolfcamp	101000
T/Cisco Shale	10420
T/Strawn	11000
T/Strawn Reef	11000,

APPROVED:

A. R. Gibson

B. E. Dessdier

A. W. Tena