		•		1				
Form 9-331 C	-	N. M. O. C. C	CON	SUBMIT IN TF		Form appr Budget But	roveđ. reau No. 42-	-R1425.
(May 1963)	UN	ITED STATE	5 5	(Other Instr reverse s	~ ~	7.		
	DEPARTMEN	IT OF THE I	NTER	IOR put	10 0	5. LEASE DESIGNAT	ION AND BEBIA	AL NO.
	GEOL	OGICAL SURV	EY	Copy		NM 01076	97	
	N FOR PERMIT	TO DRILL.	DEEPE	N, OR PLUG E	BACK	6. IF INDIAN, ALLOI	TTEE OR TRIBE	NAMB
18 TTPR OF WORK						7. UNIT AGREEMEN	TNAME	
	RILL 🛛	DEEPEN		PLUG BA	u Ц			
b. TYPE OF WELL OIL WELL	GAS OTHER			NGLE X MULTIP	" "	8. FARM OR LEASE		
2. NAME OF OPERATOR					N I	Jones 'B 9. WELL NO.	" Federa	11
3. ADDRESS OF OPERATO	Tenneco Oil Com	npany				4		
	Box 1031, Midle	und, Texas	ub	teto requirements *)		10. FIELD AND POO	_	.T
4. LOCATION OF WELL At surface	Report location clearly a			tate requirements.		Lusk Straw 11. sec., T., B., M.,	OR BLK.	
At proposed prod.	660' FNL & 990)' FWL				AND SURVEY O		
						Sec. 26, T- 12. COUNTY OF PAR	19-3, R-	<u>-31-E</u>
14. DISTANCE IN MILE	AND DIRECTION FROM N	BARDST TOWN OR POR	ST OFFICI		•••	Eddy	14 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -	Mexico
10. DISTANCE FROM PR LOCATION TO NEAR	OPUSED*		16. NO	. OF ACRES IN LEASE		F ACRES ASSIGNED		
PROPERTY OR LEAS (Also to nearest of	i LINE, FT. drig. unit line, if any)		80			160 .		
18. DISTANCE FROM PH TO NEAREST WELL	, DRILLING, COMPLETED,			,500	20. RUIA	Rotary		· .
OR APPLIED FOR, ON 21. BLEVATIONS (Show	whether DF, RT, GR, etc.)	· · · · · · · · · · · · · · · · · · ·		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		22. APPROX. DATI	WORK WILL	START*
	3540 GL (Estime	ated)			<u></u>	Upon appro	oval	
23.		PROPOSED CASI	ING ANI	CEMENTING PROGR	AM	4	<u> </u>	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER	FOOT	SETTING DEPTH		QUANTITY OF CI	CMENT - :	2
				·				- <u>0</u>
<u> </u>								u
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			AF	TEBIA, UPTICE				a du ativa
IN ABOVE SPACE DESC	BIBE PROPOSED PROGRAM : to drill or deepen direct	If proposal is to de lonally, give pertine	epen or nt data	plug back, give data on on subsurface locations :	present proc and measure	ductive sone and pro- ed and true vertical (depths. Give	blowout
preventer program, if 24.	any.				· · · · · · · · · · · · · · · · · · ·			<u></u>
24.	Rein	A.W. Lang	т	ist. Prod. Sup	erinter	dent pars	3-16-65	
SIGNED LECT								
(This space for I	ederal or State office use)			ta and the second s			
PERMIT NO.				APPROVAL DATE				
	ROVED	1	ritl e		<u></u>	A BOATE		
CONDITIONS OF API	PROVAL, IF ANY :				. 22		aa 503 gab 1973 gab 30	
K C D	Cart					101 101 101 101 101 101 101 101 101 101	2. 5. K	
RUDOUFI	DISTRICT ENGINEER	*See Inst	ruction	On Reverse Side				
ACTING	LISTROT ALL	_						

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See	Instructions	On	Reverse	Sid	1
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WELL LOCATION AND ACREAGE DEDICATION PLAT

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12

Form C-102 Supersedes C-128 Effective 14-65

-	All distanc	es must be from the	outer boundaries of t	he Section.	
		Lease	JONES B FEDE	RAL	Well No.
Unit Letter Secti		I	Range 31 EAST	County	
Actual Footage Location		l_		·	
660 feet Ground Level Elev.	from the NORTH Producing Formation	line and Pool	990 feet	from the WEST	line edicated Acreage:
	Martine		Laudt Character		Acres
2. If more than o interest and ro	alty).	to the well, out	line each and ider	atify the ownership the	reof (both as to working
dated by comm	nitization, unitization, No If answer is "y	force-pooling. et es," type of con	solidation		ed. (Use reverse side of
this form if nec No allowable w	essary.) ill be assigned to the wa	ell until all inter	rests have been c	onsolidated (by commu	unitization, unitization, pproved by the Commis-
			1		CERTIFICATION
990'0				tained herei	rtify that the information con- in is true and complete to the knowledge and belief.
			 	Position Marne Position Metabolic Company Date	Eng Anti-Lang Southerstand Sugar
			1	August 3	i, 1985
		REG. PROF	GINEER & CAND	shown an th nates of a - Under my st is true and how later	ertify that the well location his plat was plotted from field ctual surveys made by me or upervision, and that the same d correct to the best of my and belief.
			W WEXICO	Date Surveyer	d 57 14, 1965
				Registered Pi and/or Land S	rofessional Engineer Surveyor
Parate				Catificate No	576
0 330 660 '90	1320 1650 1980 2310 26	0 2000	1500 1000 1	500 61	

TIPHECO OLL DULL

TRILLING FROCERLE

MIDIARD DISTRICT

SOUTHWESTERN DIVISION

LEASE: Jones "B" Federal

MILL: No. 4

SIMUS: New Mexico

FIRD: Lusk Strawn qa c'

LOCATION: 660' FNL & 660' FWL, Sec. 26, T-19-S, R-31-E, Eddy County, New Mexico

PROJECTED TD: 11,500'

TYPE OF WELL:

ZET. ELEV.: 3540' GL

DRILLING, CASING AND CULUNITUNG FROGRAM

- 1. Drill 17 1/2" hole to 700'⁺ (into Anhydrite).
- 2. Cement 13 3/8", 48 #/ft., H-40, ST&C casing at 700' with sufficient 50-50 Incor Pozmix w/2% gel and 2% CaCl₂ and tail in with 100 sx Class "C" w/2% CaCl₂ to circulate. Run bar centralizers on float shoe and bottom two joints. Use a guide shoe and insert float.
- If float holds, release pressure immediately, center 13 3/8" casing and nipple up 3. as soon as possible. Test casing to 1000 psi for 30 min. and drill out.
- 4. Drill 11 hole to 4,000't. NOTE: Loss of circulation may be encountered between 2,800' and 3,500'. If severe at this location, hole may be dry drilled to inter- mediate casing point. Do not exceed 20,000# bit weight and 60 RPM until first three collars are below casing shoe.
- 5. At intermediate point, run 8 5/8" casing as follows: 0 4000' 32#/ft., J-55, ST&C Use a guide shoe with insert float in second collar. Use weld on bar centralizers on shoe and first two collars. Run a DV Packer at a point below the Yates producing section and above the lost circulation zone. The base of the Yates is estimated at 2600' and the lost circulation zone at 2670' in this well.
- 6. Cement in two stages as follows:

1st Stage: 200 sx Incor containing 2% CaClo 50 sx 50-50 Incor containing 4% CaCl 2nd Stage: followed by sufficient 50-50 Incor Pormix containing 6% gel to reach the base of the salt section at approximately 2230'.

7. If DV topl holds, land casing as cemented, release pressure immediately and nipple up. Run temperature survey after 4 hours. Pressure test DV tool to 1000 psi for 30 min. If o.k., drill out and test 8 5/8" casing to 1000 psi for 30 min. If o.k., drill out with 7 7/8" bit. Do not exceed 20,000 # weight and 60 RPM until first three collars are below casing shoe.

Drill 7 7/8" hole to 11,600'[±]. Run 4 1/2" casing as follows: 8.

9.

0 - 3300': 11.6 #/ft., N-80, LT&C 3300 - 8000': 11.6 #/ft., J-55, ST&C 8000 - 11600': 11.6 #/ft., N-80, LT&C

Use float shoe, differential fill-up collar. Use reciprocating scratchers and centralizers to cover productive interval.

DRILLING, CASING, AND CEMENTING PROGRAM (Cont'd.):

10. Cement with sufficient 50-50 Pozmix S cement with 0.4% HR-4 to cover 1000' above pay zone. Tail in with enough Latex cement to cover 100' above pay zone. Use 2 sx of lime in 10 bbls. water ahead of cement. Add 2 sx sodium bichromate to mud system prior to running casing. Be sure paddle mixer is available for mixing latex cement.
11. If float holds, land casing as cemented, release pressure immediately, nipple up, WOC 8 hrs., run temperature survey, and release rig.

Page 3

- 1. Surface Hole: 0 700': Spud mud with viscosity as needed to clean hole. Use fiber for loss of circulation, if needed.
- 2. Intermediate: 700-4000'[±]: Use saturated brine water. Add water to maintain minimum viscosity needed. If hole gives trouble, lower water loss to 20 cc to run casing.

NOTE: If severe loss of circulation is encountered below 2800', hole will be dry drilled using fresh water to intermediate point. Drilling should not be stopped to combat loss of circulation. If necessary to clean hole before running casing, hole can be cleaned using a slug of mud with sufficient viscosity to move cuttings into caverns.

- 3. Below Intermediate: 4000-11300'[±] Clear water treated with surfactant, some treatment with paper may be required to reduce losses. Lime should be added to keep pH above 10 for corrosion control. If necessary to weight up to control any kicking formation, use brine water to weight up system. Do not mud up until 11,300' is reached.
- 4. 11300' T.D.: Use low solids, CMC system with the following properties:

Weight	8.6 -	8.9
Viscosity	38-42	seconds
Water Loss	10-15	cc

Add chemicals and materials as nmeded to maintain good hole condition to T.D.

BLOWOUT FRIMENTERS

- 1. Use Series 900 blowout preventers as per Company specifications.
- 2. When nippling up, test blowout preventer and munifold to full working pressure with cold water, or as specified by Company representative.
- 3. Operate blowout preventers at least once each day, or as Company representative requires.
- 4. An extra set of drill pipe rams will be required on location at all times while drilling or completing.
- 5. All choke manifolds, lines and valves will be located at the side of and away from substructure.

DRILL PIPE MEASUREMENTS

1. Drill Pipe will be tallied at all coring, testing, logging and caring points. 2. Strap drill pipe at all casing, testing, coring, logging, points and at T.D. Procedure to Drill

Page 4

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FOLE DENTATION

- 1. Deviation surveys shall be taken on every trip or every 500', whichever is first. All straight hole surveys will accompany AAODC tour sheet reports.
- 2. Deviation should not change more than l_2^{10} in any 100'. If deviation exceeds 2° per 100', hole shall be plugged back and straightened.

3. Maximum deviation shall be allowed as follows:

0 - 500 - 3	500 1000		1	- 6000 - 8000	4° 5°
1000 -	2000	20 20		-10000 -12000	60 70
2000 -	4000	5-		-14000	80

DRILLING TIME

1. A recorder with torque, hook load, and rate of penetration will be used.

2. Record 1' arilling time on recorder from ______ surface to _____.

3. Record 10' drilling time from surface to ______ on Company forms.

LOCGING

1. Gamma Ray Sonic Caliper from T.D. to base of intermediate casing.

2. Dual induction-laterolog through sections as specified by wellsite geologist.

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 DST.

CORES None Anticipated

ERILL STIM TESTS Tests to be taken at direction of wellsite geologist.

Procedure to Brill

Page 5

ETOP ROLEN	Top Anhydrite	7001	lst Sand	83401
	Top Salt	850'	2nd Sand	9100'
	Base Salt	2230'	3rd Sand	9890'
	Top Yates	24301	Wolfcamp Lime	10520'
	Top Seven River	s 26601	Cisco Shale	10700'
	Delaware	4700 '	Strawn Lime	11400'
	Bone Springs	70901	T.D.	11500'
_				

NTECELIAILOUS

- 1. The AAODE Daily Brilling Report will be filled out completely and neatly each 8-hour tour. One clear and legible copy will be mailed daily to Tenneco Oil Company.
- 2. A daily report sheet and a cost sheet will be furnished by the operator for the well. The contractor's tool pusher will keep these forms current and complete. The daily cost, total cumulative cost and cumulative mul cost will be given daily along with the Tenneco morning report. At the conclusion of the well, the cost forms will be mailed to Tenneco Oil Company, P.O. Box 1031, Midland, Texas.
- 3. The morning report shall be called to Tenneco's Midland office as soon after 8:00 C.S.T. each weekday morning as practical. Fnous number is MU 3-4621, area code 915.
- 4. For notifications at other than office hours, call:

LOGGING:

ETROMOTES:

Frank Collins	MU 2-1985	Carl Rathburn	OX 4-0151
B. E. Desadier		A. R. Gibson	MU 4-7545
D. E. Destation		A. W. Lang	MU 2-3010

PREPARED BY:

A. R. Gibson

AFFNOVED BY:

A. R. Gibson

B. E. Desadier

Lang