N.M. COMMISSION

SUBMIT IN TRIPLICATE*

(Other instructi n reverse sic.,

FORM APPROVED

P.O. BOX 1980

HITED STATES

1 011111	ALL HOLED
OMR N	0. 1004-0136
0	O. 100+ 0100
Expires:	February 28, 1995

BBS, NEW MEXIC	5. LEASE DESIGNATION AND SERIAL NO.					
APPLICA	NM 55953 6. IF INDIAN, ALLOTTEE OR TRIBE NAME					
. TYPE OF WORK	. 🛚	DEEPEN [7. UNIT AGREEMENT NA	ME
. TYPE OF WELL OIL X GAS WELL WELL	8. FARM OR LEASE NAME					
NAME OF OPERATOR					JACK TANK 7 FEDERAL	
MERIDIAN OIL INC.	.=				9. WELL NO.	
ADDRESS AND TELEPHONE NO		240	045 000 0	0.40	# :	
P.O. BOX 51810, LOCATION OF WELL (Repor			915-688-6	943	10. FIELD AND POOL O	WILDCAT -
At surface 330' FNL & 660' FI	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA					
At proposed prod. zone		11.	Y. A.			
DISTANCE IN MILES AND DI	DECTION FROM NEADECT	TOWN OR BOST OF	1[7 / [SEC. 7, T2	
		TOWN OR POST OF	FICE"			13. STATE
32 1/2 MILES WES			16. NO. OF ACRES IN LEASE	17. NO. OF	LEA F ACRES ASSIGNED	NM NM
DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, (Also to nearest drig. unit	FT. line, if any	0'	1080	TO TI	IS WELL 40	
DISTANCE FROM PROPOSED TO NEAREST WELL, DRILLIN OR APPLIED FOR, ON THIS	LOCATION* NG, COMPLETED,	1650'	19. PROPOSED DEPTH	20. ROTAF	RY OR CABLE TOOLS	
	· · · · · · · · · · · · · · · · · · ·		10,050	Danka .	ROTARY 22. APPROX. DATE WO	DE WILL START
ELEVATIONS (Show Whethe	r Dr, RI, GR, EIC.)	Ca.	risbad Campelled Water	Pasin		
	· PRO	OPOSED CASIN	G AND CEMENTING PROGR.	AM	UPON APE	TOVAL
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOO	T SETTING DEPTH	T	QUANTITY OF CEMENT	
17 1/2"	13 3/8" H-40	48#	600'		550 SXSCIRCU	
12 1/4"	8 5/8" K-55	32#/28#	4500'		1800 SXS > SE	
7 7/8" 5	1/2" K-55/N-80	17#	10050'		950 SXS	STIPS.
LLING THE 13 3/8" ' - 3M BOP STACK T	NNULAR BOP W/R CASING SHOE. TO BE INSTALLED	ON THE 8 5/8	O TO BE INSTALLED ON 13 B" CASING. THE BOP STAC STED TO 3000 PSI BEFORE OPER. OGRID NO. [L	K WILL	CONSIST OF ONE B	LIND RAM
			PROPERTY NO. 14	1111	.	
Approval Su	ubject to			77F		\$ ¹
	guirements and		PCOL CODE 960	5/		
Special Stip			EFF. DATE 4-19-	94		
Attached			APINO. 30-125	-320	187	,
OVE SPACE DESCRIBE PROP	OSED PROGRAM: If propos	sal is to deepen, g	give data on present productive zone d and true vertical depths. Give blow	and proposed	d new productive zone. If	proposal is to drill
en directionally, give pertine	nt data on subsurace loca	ations and measure	a and true vertical deprins. Give blow	out preventer	r program, if any.	<u> </u>
SIGNED L	was		PRODUCTION ASSI	STANT	DATE3	15/94
nis space for Federal or St.	ate office use)					
DERMIT NO			ADDDOVALIDATE			
PERMIT NOApplication approval does no	ot warrant or certify that th	e applicant holds le	APPROVAL DATE	the subject	lease which would entitle	the applicant to co
operations thereon. CONDITIONS OF APPROVAL, I			AREA MANAGE	-		in the
(ORIG.	SGD.) RICHARD	L. MANUS	buen		APF	₹ 8 1994
APPROVED BY			ructions On Reverse Sid		DATE	

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

State of New Mexico Energy, Minerals and Natural Resources D., artment

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

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WELL LOCATION AND ACREAGE DEDICATION PLAT

TOTO KNO BUSTOR K	., <i>A</i> , 14	171 67-110	A	II Distanc	es must be	pour the	outer boo	indanes of the	Section			
Operator				•		Lease					Well No.	
MERII	OIAN (OIL IN	IC.			<u> </u>	JACK	rank 7 1	EDE		2	
Unit Letter A	Section	7	Township	24 S	OUTH	Range 3	32 EA	ST,	NMI	County LE	A	
Actual Footage Loc	alion of W	ell:	1								0 M	
	feet from	the 1	ORTH		line and		60		feet fro	om the EA	Dedicated A	CTP206'
Ground level Elev.		Producing	g Formation			Pool			1)	Ideat	. }	_
3565	<u> </u>	Bone	Spring			- Sot	ith Sa	nd Dunes	<u>LC 1</u>	jacai	1 40	Acres
								on the plat belo		rking interest and	royalty).	
3. If mo	re than one	lease of diff	erent owner							isolidated by com		
_	Vac	pooling, etc	No.	If answe	r is "yes" typ	e of cons	iolidation	lidated. (Use rev	rerse side	of		
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OPERATORS NAME:

LEASE NAME AND WELL NO.:

Jack Tank 7 Federal # 2

LOCATION:

330' FNL & 660' FEL, Sec. 7, T24S, R32E

FIELD NAME:

South Sand Dunes Bone Spring

COUNTY:

Lea County, NM

LEASE NUMBER:

NM 55853

The following information is to supplement BLM form 3160-3 Application for permit to drill in accordance with Onshore Oil and Gas Order No. 1:

9 - POINT DRILLING PLAN

1. Name and estimated tops of important geologic formation/marker horizons.

FORMATION	DEPTH			
Rustler	800'			
Salado	1100'			
Delaware	4620			
Bone Spring	8550			

2. Estimated depths at which the top and bottom of formations potentially containing usable water, oil, gas, or prospectively valuable deposits of other minerals are expected to be encountered and the operator's plans for protecting such resources.

Bone Springs

8550 - 10050 (Oil)

- 3. The operator's minimum specifications for Blowout Preventer (BOP) and related equipment to be used and schematic diagrams thereof showing sizes, pressure ratings, and the testing procedures and testing frequency. BOP and BOP related equipment (BOPE) schematics shall include schematics of choke manifold equipment. Accumulator systems and remote controls shall be utilized.
 - 13 5/8" 1.5M annular BOP w/rotating head to be installed on the 13 3/8" casing. Test to 750 psi before drilling the 13 3/8" casing shoe.
 - 11" 3M BOP stack to be installed on the 8 5/8" csg. The BOP stack will consist of one blind ram BOP, one pipe ram BOP, and a rotating head. Tested to 3000 psi before drilling the 8 5/8" casing shoe.

- 4. The proposed casing program including size, grade, weights, type of thread and coupling, and the setting depth of each string and its condition (new or acceptably reconditioned). For exploratory wells, or for wells as otherwise specified by the authorized officer, the operator shall include the minimum design factors for tensions, burst, and collapse that are incorporated into the casing design. In cases where tapered casing strings are utilized, the operator shall also include and/or setting depths of each portion.
 - 17 1/2 hole, 13 3/8" H-40 48# STC csg set @ 600'
 - 12 1/4" hole, 8 5/8" K-55 28#/32# BTC csg set @ 4500' **

7 7/8 hole, 5 1/2" K-55 & N-80 17# LTC csg set @ 10.050'

- ** SPECS: 8 5/8" 28# K-55 BTC ID = 8.017", DRIFT = 7.892", BURST = 3390 PSI, COLLAPSE = 1880 PSI, & TENSION = 437,000 LBS
- 5. The amount and type(s) of cement, including anticipated additives to be used in setting each casing string, shall be described. If stage cementing techniques are to be employed, the setting depth of the stage collars and amount and type of cement, including additives, and preflush amounts to be used in each stage, shall be given. The expected linear fill-up of each cemented string, or each stage when utilizing stage-cementing techniques, shall also be given.
 - a. 13 3/8 csg: cmt w/350 sxs Class "C" + 4% gel & 2% CaCl2 tail w/200 sxs Class "C" + 2% CaCl2. Circ. to surface.
 - b. 8 5/8" csg: cmt w/1500 sxs 'C' Lite, tail w/300 sxs 'C' + 2% CAC12
 - c. 5 1/2" csg: cmt first stage w/450 sxs Class 'H' 50/50 Poz + 2% gel + .6 Halad-9 + 3 pps KCl + 1/4 pps Flocele. second stage: Cmt w/400 sxs Class 'H' Lite + .4% Halad-9 and tail w/100 sxs Class 'H'. Bring TOC to +/-4300'.
- 6. The anticipated characteristics, additives, use, and testing of drilling mud to be employed, along with the types and quantities of mud products to be maintained, shall be given. When air or gas drilling is proposed, the operator shall submit the following specific information:

Mud Program:

0-600' Fresh water/gel/lime system, MW 8.6 - 9.0 600-4500' brine, MW 10.0 - 10.1 4500-9850' fresh water MW 8.5-8.7 9850-10050' fresh water/Drispac 8.6-8.9

7. The anticipated testing, logging, and coring procedures to be used, including drill stem testing procedures, equipment, and safety measures.

a. DST Program: None

b. Core: None

c. Mud Logging: Two-man unit 4000' to TD.

d. Logs to be run:

CNL-LDT/CAL/GR - TD-4500'

DIL/GR: TD-ICP

CNL/GR - 4500' - SURFACE

8. The expected bottom-hole pressure and any anticipated abnormal pressures, temperatures or potential hazards that are expected to be encountered, such as lost circulation zones and hydrogen sulfide. The operator's plans for mitigating such hazards shall be discussed. Should the potential to encounter hydrogen sulfide exist, the mitigation procedures shall comply with the provisions of Onshore Oil and Gas Order No. 6.

No abnormal pressures are anticipated. bottom hole pressures at TD expected to be 4300 psi. Bottom hole temperature 140° F. No Hydrogen Sulfide expected in this known drilling area.

9. Any other facets of the proposed operation which the operator wishes for BLM to consider in reviewing the application.

Anticipated drilling time expected to be 19 days from surface to TD.

