Form 3160-3 (July 1992)

N.M. OIL COMS. PMMISSION P.C. BOX 1980

UNITED STATES

SUBMIT IN TRIPLICATE*

(Other instru-, on

HOBES, NEWFARXIOENTEGRADIE INTERIOR

reverse side)

PURM	APPROVEL	,	
OMB N	0. 1004-0	136	;
Expires:	February	28,	1995

וטטח	93), ia saturda iuc					5. LEASE DESIGNATION	AND SERIAL NO.	
BUREAU OF LAND MANAGEMENT					NM 7	NM 77064		
APPLICATION FOR PERMIT TO DRILL OR DEEPEN					6. IF INDIAN, ALLOTTEE OR TRIBE NAME			
1a. TYPE OF WORK	[7]							
b. TYPE OF WELL	RILL X	DEEPEN	Ш			7. UNIT AGREEMENT NA	ME	
OIL 🔽	GAS OTHER			INGLE X MULTIF	PLE	8. FARM OR LEASE NA	ME	
NAME OF OPERATOR	WELL CHER			2012		CHIRICAHUA 8 FEDERAL		
MERIDIAN OIL IN	C.					9. WELL NO.	O I EDENAL	
. ADDRESS AND TELEPHO	NE NO.					#	1	
		9710 		915-688-6	943	10. FIELD AND POOL O	R WILDONT	
. LOCATION OF WELL (At surface	Report location clearly and in accordance with any State requirements.*)				SOUTH SAND D	UNE BONE S		
	980' FSL & 1980' FWL					11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. zone						050 0 7040 7005		
4. DISTANCE IN MILES A	ND DIRECTION FROM NEAREST	TOWN OR POST OF	FICE*			SEC. 8, T2		
32 1/2 MILES V	VEST OF JAL					LEA	NM	
5. DISTANCE FROM PROP	OSED*	30'	16. NO	. OF ACRES IN LEASE		ACRES ASSIGNED	1	
PROPERTY OR LEASE (Also to nearest drig.	LINE. FT.	50		440	10 18	IIS WELL		
8. DISTANCE FROM PROP TO NEAREST WELL, D OR APPLIED FOR, ON	OSED LOCATION* RILLING COMPLETED		19. PR	OPOSED DEPTH	20. ROTAR	RY OR CABLE TOOLS		
OR APPLIED FOR, ON	THIS LEASE, FT. N/A	1ST WELL		10,050		ROTARY		
	hether DF, RT, GR, ETC.)	Ca	risha	d Controlled Water	Racin	22. APPROX. DATE WORK WILL START		
3.						UPON APP	PROVAL	
	PR	OPOSED CASIN	G AND	CEMENTING PROGRA	AM 			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOO	Τ	SETTING DEPTH		QUANTITY OF CEMENT	- .	
17 1/2"	13 3/8" H-40	48#		600'		550 SXS CIRC		
12 1/4" 7 7/8"	8 5/8" K-55 5 1/2" K-55/N-80	32#/28#		4500'	ļ	1800 SXS /	SEE	
, 1,0		17#		10050']	950 SXS \	STIPS.	
RILLING THE 13 3/ I" - 3M BOP STAC	MANNULAR BOP W/R	ON THE 8 5/8	" CAS	NG. THE BOP STAC	K WILL (CONSIST OF ONE B	LIND RAM	
		OPER. OG		0. 14938				
		PROPERTY	NO.	14 379	_	>	[]:	
Approval Subject	to .	POOL CODE 96037		•	#3 - ,			
General Require	ments and	EFF DATE		10 01	-		i, .	
Spacial Stipulzti	0118	_	F	79	-		\$1 \$25 \$25	
Attached		API NO3			•		513	
pen directionally, give pe	PROPOSED PROGRAM: If propo	sal is to deepen, g ations and measured	ive data d and true	on present productive zone a e vertical depths. Give blowe	and proposed out preventer	new productive zone. If program, if any.	proposal is to drift	
/	-						<u> </u>	
1 (1. 4.35	-		PRODUCTION ASSIS	TANT		715/94	
SIGNED -		TITLE		FRODOOTION ACCI	JIANI	DATES	773734	
This space for Federal	or State office use)							
PERMIT NO.	 			APPROVAL DATE				
	es not warrant or certify that th	e applicant holds le	gal or en		the subject !	ease which would entitle	the annionates	
operations thereon.		FF	J=: 3, 54	alove ligite iii	o	willon would suttle	me applicant to co	
CONDITIONS OF APPROV	AL, IF ANY:							
/AB10	(CD)			AREA MANAGE	R	ממג	8 1994	
APPROVED BY (ORIG	SGD.) RICHARD	L. MANUSITLE	:	MINEN MILLIANS		APR	ठ छज	

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

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT III
1000 Rio Brazos Rd., Azzec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator					Lease					Well 140.	·
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Unit Letter		ection	Township		Range				County		
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	nage Locatio			 	·						
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	if answer is "	es	: NO II : and tract descri	iptions which have	actually !	been consolidate	d. (Use reve	rse side	of .		
I	N: - F :F -										
	No allowable	will be assigned to	the well until	all interests have be terest, has been app	en conso	lidated (by come the Division.	munitization,	unitizat	ion, forced-pooli	ng, or otherwise)	
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OPERATORS NAME:

LEASE NAME AND WELL NO.:

Chiricahua 8 Federal # 1

LOCATION:

FIELD NAME:

COUNTY:

LEASE NUMBER:

Meridian Oil Inc.

Chiricahua 8 Federal # 1

1980' FSL & 1980' FWL, Sec. 8, T24S, R32E

South Sand Dunes Bone Spring

Lea County, NM

NM 77064

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.

