Form 9160-3 (July 1989) (formerly 9-3	DE	Draw Draw Un IGO ST PARTMENT OF BUREAU OF LAND I	THE INTERK	CONTACT R. OFFICE FOR N LODF COPIES RE (Other instruction CR reverse side)	VING BER RED is on	BLM Roswe Modified Fo NM060-316 30 - 0 J 5. LEASE DESIG	rmiNo.	550 Ial NO.	
APPLICA	TION FOR	PERMIT TO DE	RILL, DEEP	en, or plug e	BACK	6. IF INDIAN, AL	LOTTEE OR TRIB	E NAME	
1a. TYPE OF WORK						7. UNIT AGREEMENT NAME			
		OTHER	SING			8. FARM OR LE	ASE NAME		
2. NAME OF OPERAT				3a. AREA CODE & PHO	_		on "3" Fede	əral	
Meridian Oil Inc. 915-686-5600 9. WELL NO.									
3. ADDRESS OF OPER	rator r., Midland, T	X 79705				10. FIELD AND	4 POOL, OR WILDC	AT	
			ce with any State r	equirements.*)	2120	🖌 Shuqar	arsigma Shugart (Y, SR, Q, GB)		
	At surface 330' FNL & 1650' FEL At proposed prod. zone 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA								
14. DISTANCE IN MI	ES AND DIRECTION	FROM NEAREST TOWN OR	POST OFFICE*	· · · · · · · · · · · · · · · · · · ·	Curr Curr	12. COUNTY OR	PARISH 13. S	TATE	
	utheast of M	aljamar, NM				Eddy		NM	
15. DISTANCE FROM LOCATION TO NE PROPERTY OR LI (Also to nearest	PROPOSED [®] AREST EASE LINE, FT. drlg. unit line, if a	330' any)	16. NO. C	OF ACRES IN LEASE	TO THIS	OF ACRES ASSIGNED THIS WELL 40			
18. DISTANCE FROM	PROPOSED LOCATIO	N*	19. PROP	OSED DEPTH	20. ROTAR	Y OR CABLE TOOL	LS		
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 760'				3500'			Rotary 22. APPROX. DATE WORK WILL START*		
21. ELEVATIONS (She	ow Whether DF, RT,	, GR, ETC.)							
3454' GR.			CASING AND C	CEMENTING PROGRA	N/		ovember 19	50	
							1 (11) (11) 1		
HOLE SIZE		WEIGHT/FOOT	GRADE	THREAD TYPE	SETTH	NG DEPTH	QUANTITY OF		
12-1/4"	<u>8-5/8"</u> 5-1/2"	24	K-55 K-55			500' 3500'	450 <u>sx-Ci</u> 700 <u>sx-Ci</u>		
Drill 7-7/8" ho MUD PROGRAM pressures or BOP PROGRAM: The stack is 1	le to 3500'. : 0-500' frest temperatures 10" 3M BOP to consist of	Set 5-1/2" csg @ sh water gel and expected. stack to be insta	3500' and cm lime; 500'350 alled on the 8- blind ram B0	I w/450 sxcircu nt w/700 sxcirc 00' salt water; M -5/8" and left on P, and one pipe ra	ulate. W 9.8-1	remainder o	f the drilling	g. an	
APPROVAL SU	BIECT TO			New	12-2 Le 4	- 98 HP-I	Oct 4	RE	
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ATTACHED	O LIN O L	ان ا	r tata di Para	and Sinteri			6	ED	
	CRIBE PROPOSED PR	OGRAM: If proposal is to onally, give pertinent data	deepen or plug bac a on subsurface loc	ck, give data on present p cations and measured and	productive a I true vertic	cone and proposi al depths. Give	ed new producti blowout prevent	ive zone. ter program,	
SIGNED	but L. F	Bradehow	_ TITLE	. Staff Env./Reg.	Specialis	t DATE	03 October	r 1990	
	ederal or State offic	e use)				÷÷			
PERMIT NO			A	APPROVAL DATE		<u> </u>			
APPROVED BY CONDITIONS OF	APPROVAL, IF ANY :			- s · · ·		DATE	11:28	<i><i><i><i></i></i></i></i>	

*See Instructions On Reverse Side

TITLE 18 U.S.C. SECTION 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

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

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

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

State of New Mexico Lnergy, Minerals and Natural Resources Departs. ...t

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

								Well No.
Operator MERIDIAN OIL INC.			BENSON "3" FEDERAL				4	
nit Letter	Section	Township		Range			County	
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tual Footage Local	uon of Well:			•				
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ound level Elev.	feet from the	cing Formation		Pool		iou nom		Dedicated Acreage:
3454								
	Y, <u>SR</u>	ated to the subject we			Shugart	lat halony		40 Acres
1. Outline	the acreage dedic	alled to the subject we			marks ou use p			
2. If more	than one lease is	dedicated to the well	outline each and	identify the o	wnership there.	of (both as to working	ng interest and	royalty).
3. If more	than one lease of	different ownership i	is dedicated to the	e well, have the	interest of all	owners been consol	idated by com	munitization,
unitizati	ion, force-pooling							
	Yes		nswer is "yes" ty					
		mers and tract descrip	tions which have	actually been	consolidated.	Use reverse side of		
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or until a r	on-standard unit.	eliminating such inte	rest, has been an	proved by the l	Division.		, pooli	- D ,,
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Meridian Oil Inc.

Benson "3" Federal #4 330' FNL & 1650' FEL Sec. 3, T-19-S, R-30-E Eddy County, New Mexico NM-29228

To supplement USGC Form 3160-3 Application to Drill the following additional information is submitted concerning questions on Page 5 of NTL-6:

- 1. See Form 3160-3
- 2. See Form 3160-3
- 3. The geological name of surface formation is: Ochoa
- 4. See Form 3160-3
- 5. See Form 3160-3
- 6. The estimated tops of important geological markers are:

Yates	2,050	Queen Sand	2,950'
Seven Rivers	2,325'	Grayburg	3,430'

7. The estimated depths at which anticipated water, oil, gas, and mineral bearing strata are as follows:

Queen 2,950' - 0il

- 8. See Form 3160-3. All casing will be new.
- 9. See Form 3160-3 for depths of strings. Cement volumes and additions as follows:

a. 8 5/8" csg: Cement w/450 sx Cl. "C" cmt + 2% CaCl₂.

b. 5 1/2" csg: Cement w±450 sxs C1 "C" Lite and tail in w/250 sxs C1 "C".

A caliper log will be run prior to setting 5 1/2' pipe to determine exact cement volumes required.

10. The pressure control diagram is attached to Form 3160-3. The following additional information is as follows:

8 5/8" casing installation: 10" - 3M BOP stack to be installed and tested by an independent tester to 3,000 psi before drilling the 8 5/8" casing shoe. The BOP stack to consist of an annular BOP, a blind ram BOP, and one pipe ram BOP.

Supplement to USGS Form 3160-3 Benson "#" Federal #4 page two

- 11. See Form 3160-3
- 12. A. DST Program: None
 - B. Core: None Expected 505
 - C. Mud Logging: 2000' to TD, one-man unit
 - D. Wire Line Logs:

The following suite of logs will be run in both of the listed intervals:

CNL/LDT	TD –	2000'	(GR/CNL	to	surface)
DLL/RXO	TD –	2000'			

- 13. No abnormal pressures are anticipated. Bottom hole pressures at TD expected to be 1600 psi. Bottom hole temperature 100° F. No Hydrogen Sulfide expected in this known drilling area. No crooked hole or abnormal deviation problems.
- 14. Anticipated starting date to spud on or before 11-10-90. Anticipated drilling time expected to be 10 days from surface to TD.

SURFACE USE PLAN

Meridian Oil Inc.

Benson "3" Federal #4 330' FNL & 1650' FEL Sec. 3, T-19-S, R-30-E Eddy County, New Mexico NM-29228

This plan is submitted with Application to Drill on above described well. The minerals are federal and the surface is leased for grazing (See below for surface lessee). The purpose of this plan is to describe the location, proposed construction activities and operations plans, magnitude of necessary surface disturbance and procedures to be followed in rehabilitating the surface after completion of the operation so that complete appraisal can be made of the environmental effects associated with the operations.

1. <u>Existing Roads</u>:

Exhibit "A" is a Topographic Land Surveys plat showing the location of the proposed well as staked.

Directions to the well are as follows: From the junction of US 180 and Hwy. 360, 15 miles east of Carlsbad, go north 11.6 miles on Hwy. 360, thence northeast 1.9 miles on County Road 251, thence 1.5 miles on County Road 250, thence south 0.6 mile to a point 1100' west of $t^{h}e$ NE corner of Section 3.

- 2. Planned Access Road:
 - a. An existing lease road will be used. The well site will have a 131' access road constructed to BLM standards to the lease road.
- 3. Location of Existing Wells in Area:

See Exhibit "B"

4. Location of Proposed Facilities:

Location of proposed well site and tank battery is shown on Exhibit "C". The battery will be located on proposed well pad; no additional surface disturbance will be necessary.

5. Water Supply:

No available surface or sub-surface fresh water exists in the vicinity of the proposed well. Drilling water will be transported or pumped to the drill site from the nearest commercial source. Surface Use Plan Benson "3" Federal #4 page two

6. <u>Source of Construction Material</u>:

Caliche for surfacing access road and pad will be obtained from an existing pit located in the NE/4 SE/4 of Sec. 29, T18S, R31E.

7. <u>Handling Waste Disposal</u>:

- a. Drill cuttings disposed into drilling pits.
- b. Drill fluids allowed to evaporate in drill pits until pits dry.
- c. Produced water during testing drill pits.
- d. Produced oil during testing storage tank until sold.
- e. Current laws and regulations pertaining to disposal of human waste will be observed.
- f. Reserve pit will be plastic lined.
- g. Waste paper, garbage, and junk will be disposed of into a special trash bin on location. All waste material will be regularly removed to an approved landfill.
- h. All trash and debris will be buried or removed from well site within 30 days after drilling and/or completion operations are finished.

8. <u>Ancillary Facilities</u>:

None

- 9. <u>Plans for Restoration of Surface</u>:
 - a. After completion of drilling and/or completion of operations, all equipment and other material not needed for operations will be removed. Pits will be filled and locations cleaned of trash and junk to leave well in as aesthetically pleasing a condition as possible.
 - b. Any unguarded pits containing fluids will be fenced until filled.
 - c. After abandonment of well, surface restoration will be in accordance with the Bureau of Land Management Surface Requirements.
- 10. <u>Topography and Soil</u>:

New Mexico Archaeological Services, Inc. Report by Dr. J. Loring Haskell is attached.

11. Land Use:

Grazing and hunting - Federal

Surface Lessee -Snyder Ranch c/o Mr. Larry Squires P.O. Box 726 Lovington, NM 88260 Surface Use Plan Benson "3" Federal #4 page three

12. Surface Ownership:

Bureau of Land Management (Federal)

13. Operators Representatives:

Field representatives (Responsible for compliance with approved surface use and operations plan):

Meridian Oil Inc. P. O. Box 837 Hobbs, New Mexico 88240 Office: 505-393-5844

Mr. Johnny Ellis, Drilling Foreman, or a consultant Hobbs, New Mexico Home: 505-393-8150

Mr. Bill Dawson, Drilling Superintendent Midland, Texas Office: 915-686-5600 Home: 915-682-9037

14. <u>Certification</u>:

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route; that I am familiar with conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by Meridian Oil Inc. and its contractors and sub-contractors in uniformity with this plan and the terms and conditions under which it is approved.

Date: 10390

S.J. Van Howe Drilling Engineer Meridian Oil Inc.

RLB/bn

MERIDIAN OIL INC. Benson "3" Federal #4 Sec. 3 T19S R30E NM 29228

Meridian Oil, 21 Desta Drive EXHIBIT "A" Midland, Texas 79705

MERIDIAN OIL COMPANY's proposed Benson "3" Federal Well No. Fig. road, Section 3, T19S, ۲. USGS HACKBERRY LAKE QUADRANGLE, R30E, NMPM, Eddy County, New Mexico, 7.5 Minute Series, vis a vis previously recorded 1;24,000, 1985, Prov. Ed., 4, 330' FNL, 1650' FEL, and access showing

NMAS 5818.



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FUTURE STORAGE TANKS

MERIDIAN OIL

Meridian Oil, 21 Desta Drive EXHIBIT "C" Midland, Texas 79705

MERIDIAN OIL INC. Benson "3" Federal #4 Sec. 3 T19S R30E NM 29228 PLAT SHOWING a PROPOSE WELL LOCATION and LEASE ROAD in SECTION 3, T-19-S, R-30-E, EDDY COUNTY, NEW MEXICO



LOCATION & ELEVATION VERIFICATION MAP



Surveying & Mapping for the Oil & Gas Industry

1305 N. HOBART PAMPA, TX 79085 (806) 655-7218 910 W. WALL MIDLAND, TX 79701 (915) 682-1653 215 E. TRAVIS MARSHALL, TX 75670 (214) 330-9602