

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

21 FEB 23 AM 11:23

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-078387	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator MERIDIAN OIL 14538	7. Unit Agreement Name	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name 7124 Howell D 9. Well Number 2R	
4. Location of Well 1645' FSL, 1050' FWL Latitude 36° 51' 59", Longitude 107° 42' 14"	10. Field, Pool, Wildcat 72319 Blanco Mesa Verde 11. Sec., Twn, Rge, Mer. (NMPM) L Sec 29, T-31-N, R-8-W API # 30-045-29208	
14. Distance in Miles from Nearest Town 4 miles to Navajo Dam	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1050'		
16. Acres in Lease	17. Acres Assigned to Well 320 W/2	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 75'		
19. Proposed Depth 6200'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6545' GR	22. Approx. Date Work will Start 1st quarter 1995	
23. Proposed Casing and Cementing Program See Operations Plan attached. This action is subject to technical and procedural review pursuant to 43 CFR 3166.3 and appeal pursuant to 43 CFR 3166.4.	DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"	
24. Authorized by: <i>[Signature]</i> Regional Drilling Engineer	12-28-94 Date	

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY _____ TITLE _____ DATE _____

APPROVED
AS AMENDED

Archaeological Report submitted by Arboles Contract Archaeology Technical Report #712

Threatened and Endangered Species Report submitted

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

NMOCD

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-10:
Revised February 21, 1991
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-045-29208		2 Pool Code 72319		3 Pool Name Blanco Mesaverde		
4 Property Code 7124		5 Property Name Howell D			6 Well Number 2R	
7 OGRID No. 14538		8 Operator Name Meridian Oil Inc.			9 Elevation 6545'	

10 Surface Location

UL or lot no. L	Section 29	Township 31N	Range 8W	Lot Idn	Feet from the 1645	North/South line SOUTH	Feet from the 1050	East/West line WEST	County S.J.
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11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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12 Dedicated Acres W/320	13 Joint or Infill	14 Consolidation Code	15 Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 5221.92 SF- 078387 29 1050' 1645'				17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature Peggy Bradfield Printed Name Regulatory Affairs Title 12-28-94 Date 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 10-29-94 Date of Survey Signature and Seal of Professional Surveyor Certificate Number			
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5401.44

OPERATIONS PLAN

Well Name: Howell D #2R
Location: 1645'FSL, 1050'FWL Section 29, T-31-N, R-8-W
 San Juan County, New Mexico
 Latitude 36° 51' 59", Longitude 107° 42' 14"
Formation: Blanco Mesa Verde
Elevation: 6545'GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	2200'	
Ojo Alamo	2200'	2270'	aquifer
Kirtland	2270'	3100'	gas
Fruitland	3100'	3397'	gas
Pictured Cliffs	3397'	3650'	gas
Lewis	3650'	4165'	
Intermediate TD	3850'		
Huerfanito Bentanite	4165'	4200'	
Navajo City	4200'	4407'	
Chacra	4407'	5050'	gas
Upper Cliff House	5050'	5263'	gas
Massive Cliff House	5263'	5323'	gas
Menefee	5323'	5673'	gas
Massive Point Lookout	5673'	5739'	gas
Lower Point Lookout	5739'		gas
Total Depth	6200'		

Logging Program:

Openhole Wireline Logging -
 Surface to Intermediate TD : DIL/LDT/CNL/NGT/ML/FMS
 Intermediate TD to Total Depth : MLT/LDT/CNL
 Mud Logs/Coring/DST -
 Mud logs - 3850' to TD
 DST - none

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 200'	Spud	8.4-8.9	40-50	no control
200-3850'	Weighted	8.4-9.1	30-60	no control
3700-6200'	Gas/Mist	n/a	n/a	n/a

Pit levels will be visually monitored to detect gain or loss of fluid control.

Casing Program:

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3850'	7"	20.0#	K-55
	7" stage tool @ 3050'			
6 1/4"	3700' - 6200'	4 1/2"	10.5#	K-55

Tubing Program:

0' - 6200' 2 3/8" 4.7# J-55

