

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED JAN 09 1995 OIL CON. DIV. DIST. 3	5. Lease Number SF-078319
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 7430 Riddle E 9. Well Number 1R
4. Location of Well 1045' FSL, 1470' FEL Latitude 36° 50' 10", Longitude 107° 46' 53"		10. Field, Pool, Wildcat 72319 Blanco Mesa Verde 11. Sec., Twn, Rge, Mer. (NMPM) 0 Sec 4, T-30-N, R-9-W API # 30-045-29207
14. Distance in Miles from Nearest Town 5 miles to Navajo Dam, NM	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1045'		
16. Acres in Lease	17. Acres Assigned to Well 320 E/2 323.30	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 700'		
19. Proposed Depth 5560'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6121' 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 3106.3 and appeal pursuant to 43 CFR 3106.4.	DRILLING OPERATIONS AND RELATED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"	
24. Authorized by: <i>Deann Shadkield</i> for Regional Drilling Engineer	12-28-94 Date	

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

Archaeological Report submitted by Arboles Contract Archaeological Technical Report #642 dated 11-21-94
Threatened and Endangered Species Report submitted by Ecosphere Environmental 10-17-94

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

NMOCD

APPROVED
AS ATTENDED
JAN 16 1995
Chip Harada
for DISTRICT MANAGER

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-102
Revised February 21, 1994
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 <u>30-045-29207</u>		2 Pool Code 72319		3 Pool Name Blanco Mesaverde	
4 Property Code 7430		5 Property Name Riddle E			6 Well Number 1R
7 OGRID No. 14538		8 Operator Name MERIDIAN OIL INC.			9 Elevation 6121'

10 Surface Location

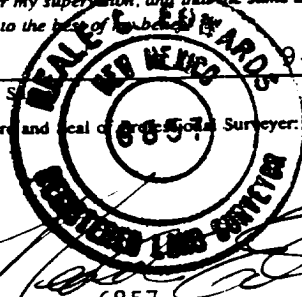
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	4	30 N	9 W		1045	South	1470	East	S.J.

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

12 Dedicated Acres <u>5.3333</u> <u>5.320</u>	13 Joint or Infill 0	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 4 3 2 1 5256.24' 1326.60' 1306.14' 2612.28'	SF-081098		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief <u>Peggy Bradfield</u> Signature Peggy Bradfield Printed Name Regulatory Affairs Title 12-29-94 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 knowledge and belief. Date of Survey 9-15-94 Signature and Seal of Registered Surveyor:  6857 Certificate Number
	SF-078319		
	1470'		
	1045'		
5247.66			

OPERATIONS PLAN

Well Name: Riddle E #1R
Location: 1045'S 1470'E Section 4, T-30-N, R-9-W
 San Juan County, New Mexico
 Latitude 36° 50' 10", Longitude 107° 46' 53"
Formation: Blanco Mesa Verde
Elevation: 6121'GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	1623'	
Ojo Alamo	1623'	1727'	aquifer
Kirtland	1727'	2541'	gas
Fruitland	2541'	2903'	gas
Pictured Cliffs	2903'	3117'	gas
Lewis	3117'	3623'	
Intermediate TD	3310'		
Huerfanito Bentanite	3623'	3674'	
Navajo City	3674'	3957'	
Chacra	3957'	4429'	gas
Upper Cliff House	4429'	4629'	gas
Massive Cliff House	4629'	4775'	gas
Menefee	4775'	5110'	gas
Massive Point Lookout	5110'	5252'	gas
Lower Point Lockout	5252'		gas
Total Depth	5560'		

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 - 1700' 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
200-3310'	Weighted	8.4-9.1	30-60	no control
3160-5560'	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' - 3310'	7"	20.0#	K-55
	7" stage tool @ 2491'			
6 1/4"	3160' - 5560'	4 1/2"	10.5#	K-55

Tubing Program:

0' - 5560' 2 3/8" 4.7# J-55

Alamo

NEW BLM
ROW

Canyon

4

Crow

3

Canyon

9

16

10

EXISTING
ROW

STATE
LANDS

EXISTING
ROW

22

MERIDIAN OIL INC
RIDDLE E #1R

T 30 N, R 9 W

200' New Construction

Section 4: SWSE

200'

Remaining BLM roads are covered by BLM ROW's
NM 88821, NM 80753, NM 80748 & NM 80750.

APD MAP #1

Caballo
Spring

Caballo

Burno
Spring