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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

CARMON, NM

1a. Type of Work DRILL	5. Lease Number SF-079514	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator <b>MERIDIAN OIL</b> 14538	7. Unit Agreement Name San Juan 29-7 Unit 7465	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499  (505) 326-9700	8. Farm or Lease Name San Juan 29-7 Unit 9. Well Number 507R	
4. Location of Well 2145' FNL, 1610' FEL  Latitude 36° 43' 37", Longitude 107° 31' 07"	10. Field, Pool, Wildcat Basin Ft Coal 71629 11. Sec., Twn, Rge, Mer. G Sec 13, T-29-N, R-7-W NMPM	
14. Distance in Miles from Nearest Town 3 miles from Navajo City	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1610'	17. Acres Assigned to Well 320 E/2	
16. Acres in Lease This action is subject to technical and procedural review pursuant to 43 CFR 3165.3, and appeal pursuant to 43 CFR 3165.4.		
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 1200'		
19. Proposed Depth 3050' This action is subject to technical and procedural review pursuant to 43 CFR 3165.3, and appeal pursuant to 43 CFR 3165.4.	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6304' GR	22. Approx. Date Work will Start 2nd quarter 1993	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <i>[Signature]</i> Regional Drilling Engineer	Date <i>4/13/93</i> <b>RECEIVED</b> MAY 05 1993 OIL CON. DIV. DIST. 3	

PERMIT NO. \_\_\_\_\_

APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

Archaeological Report to be submitted  
Threatened and Endangered Species Report to be submitted  
NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

*ckh*

APPROVED  
AS AMENDED

APR 20 1993

DISTRICT MANAGER

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

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Form C-182  
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

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070 BIRMINGHAM, NM

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator		Lease		Well No.	
Meridian Oil Inc.		San Juan 29-7 Unit		507 R	
Unit Letter	Section	Township	Range	County	
G	13	29 North	7 West	NMPM	Rio Arriba
Actual Footage Location of Well:					
2145 feet from the North line and		1610 feet from the East line			
Ground level Elev.	Producing Formation	Pool	Dedicated Acreage:		
6304'	Fruitland Coal	Basin	320 Acres		

- Outline the acreage dedicated to the subject well by corner pencil or machine marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?  
☒ Yes ☐ No If answer is "yes" type of consolidation unitization  
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)  
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, force-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*Peggy Bradfield*  
Signature

Peggy Bradfield

Printed Name

Regulatory Represent

Position

Meridian Oil Inc.

Company

4-8-93

Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes 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.

9-2-93  
Date Surveyed

*C. Edwards*  
Name

Professional Surveyor

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CERTIFICATE NO.

April 26, 1993

OPERATIONS PLAN

**Well Name:** San Juan 29-7 Unit #507R  
**Location:** 2145'FNL, 1610'FEL, Section 13, T-29-N, R-7-W  
 Rio Arriba County, New Mexico  
 Latitude 36° 43' 37", Longitude 107° 31' 07"  
**Formation:** Basin Fruitland Coal  
**Elevation:** 6304'GL

Formation:	Top	Bottom	Contents
Surface	San Jose	2197'	
Ojo Alamo	2197'	2367'	aquifer
Fruitland	2367'	2856'	
Fruitland	2856'	3166'	
Fruitland Coal Top	2950'	3160'	gas & salt water
Pictured Cliffs	3166'		
Total Depth	3163'		

**Logging Program:** Mud logs from intermediate to Total Depth.

**Mud Program:**

Interval	Type	Weight	Vis.	Fluid Loss
0- 200'	Spud	8.4-8.9	40-50	no control
200-2920'	Non-dispersed	8.4-9.1	30-60	no control
2920-3163'	Formation Water	8.4		no control

**Casing Program:**

Hole Size	Depth Interval	Csg. Size	Wt.	Grade
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 2920'	7"	20.0#	K-55
6 1/4"	2770' - 3163'	5 1/2"	15.5#	K-55

**Tubing Program:**

0' - 3163'	2 3/8"	4.7#	J-55
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**Float Equipment:** 9 5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing - guide shoe and self-fill insert float valve. Three centralizers run every other joint above shoe. Run insert float one joint above guide shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2367'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

5 1/2" production casing - float shoe on bottom and pre-drilled liner run to the 7" casing with a minimum 50' overlap. Liner hanger is a double slip grip type.

**Wellhead Equipment:** 9 5/8" x 7" x 2 3/8" x 11" 3000 psi xmas tree assembly.

OJO ALAMO, NM

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San Juan 29-7 Unit #507R

**Cementing:**

9 5/8" surface casing - cement with 160 sx Class "B" cement with 1/4# floccle/sx and 3% calcium chloride (189 cu.ft. of slurry, 200% excess to circulate to surface). WOC 12 hrs. Test casing to 600 psi/30 minutes.

7" intermediate casing - lead w/429 sacks 65/35 Class "B" Pozmix with 6% gel, 2% calcium chloride, and 1/4#/sack floccle. Tail with 100 sacks Class "B" neat or 2% calcium chloride (878 cu.ft., 100% excess to circulate to surface).

**BOP and tests:**

Surface to intermediate TD - 11" 2000 psi (minimum) double gate BOP stack (Reference Figure #1). Prior to drilling out surface casing, test rams to 600#/30 min.

Intermediate TD to Total Depth - 7 1/6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to drilling out intermediate casing, test blind rams and casing to 2500 psi for 30 minutes; all pipe rams and casing to 2500 psi for 30 minutes each.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated at least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

**Additional information:**

- \* The Fruitland Coal formation will be completed.
- \* Anticipated pore pressure for the Fruitland is 1300 psi.
- \* This gas is dedicated.
- \* The East half of Section 13 is dedicated to the Fruitland Coal.
- \* New casing will be utilized.
- \* Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.

