

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

070 FARMINGTON, NM

1a. Type of Work DRILL	5. Lease Number SF-081155
1b. Type of Well GAS	6. If Indian, All. or Tribe
<b>RECEIVED</b> SEP 2 1 1994	
2. Operator <b>MERIDIAN OIL</b> <i>14538</i>	7. Unit Agreement Name Allison Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499  (505) 326-9700	8. Farm or Lease Name <i>6784</i> Allison Unit <del>IN-3</del> 9. Well Number 142
4. Location of Well 1920' FNL, 850' FWL  Latitude 36° 58' 05", Longitude 107° 30' 20"	10. Field, Pool, Wildcat <i>71629</i> Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. <i>E</i> - Sec 19, T-32-N, R-6-W NMMP
14. Distance in Miles from Nearest Town 4 miles to Allison	12. County San Juan
	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 850'	<i>API: 30-045-29195</i>
16. Acres in Lease	17. Acres Assigned to Well n/a - CO2 inj well
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 2500'	
19. Proposed Depth 3387'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6434' GR	22. Approx. Date Work will Start 4th quarter 1994

23. Proposed Casing and Cementing Program

This action is subject to review and approval of the Regional Drilling Engineer and approval of the District Manager. See Operations Plan attached and approval pursuant to 43 CFR 3165.3 and 43 CFR 3165.4.

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS"

24. Authorized by: *[Signature]*  
Regional Drilling Engineer

*8/29/94*  
Date

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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

APPROVED  
AS AMENDED

*[Signature]*  
SEP 15 1994  
DISTRICT MANAGER

NM000

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

070 FARMINGTON, NM

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-29195	<sup>2</sup> Pool Code 71629	<sup>3</sup> Pool Name Basin Fruitland Coal
<sup>4</sup> Property Code 6785-6784	<sup>5</sup> Property Name Allison Unit <del>END</del>	<sup>6</sup> Well Number 142
<sup>7</sup> OGRID No. 14538	<sup>8</sup> Operator Name Meridian Oil Inc.	<sup>9</sup> Elevation 6434'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	19	32 N	6 W		1920	North	850	West	S.J.

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres n/a	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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	1325.28'	2650.56'	<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief  Signature <u>Peggy Bradfield</u> Printed Name <u>Peggy Bradfield</u> Title <u>Regulatory Representative</u> Date <u>8-18-94</u>
1920' 850'			<sup>18</sup> 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. 5-6-94 Date of Survey Signature and Seal of Professional Surveyor 6857 Certificate Number
2			
3			
4			

RECEIVED  
SEP 21 1994  
OIL CON. DIV.  
DIST. 3

OPERATIONS PLAN

**Well Name:** Allison Unit INJ #142  
**Location:** 1920'FNL, 850'FWL, Section 19, T-32-N, R-6-W  
 San Juan County, New Mexico  
 Latitude 36° 58' 05", Longitude 107° 30' 20"  
**Formation:** Basin Fruitland Coal  
**Elevation:** 6434'GL

Formation:	Top	Bottom	Contents
Surface	San Jose	2271'	
Ojo Alamo	2271'	2382'	aquifer
Kirtland	2382'	2927'	
Fruitland	2927'	3331'	gas
Fruitland Coal	3059'	3326'	gas
Pictured Cliffs	3331'		gas
Total Depth	3387'		

**Logging Program:** Mud logs from 2827' to Total Depth.  
 Dens/Neut/GL; Dens/GR; Micro/GR: 2800-TD  
 Ind/GR/SP: surface-TD

**Mud Program:**

Interval	Type	Weight	Vis.	Fluid Loss
0- 350'	Spud	8.4-8.9	40-50	no control
350-3387'	Non-dispersed	8.4-9.5	30-60	no control

**Casing Program:**

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
12 1/4"	0 - 350'	8 5/8"	24.0#	K-40
7 7/8"	0 - 3387'	4 1/2"	10.5#	K-55

**Tubing Program:**

0 - 3387'	2 3/8"	4.7#	J-55
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**Float Equipment:** 8 5/8" surface casing - saw tooth guide shoe.  
 Centralizers will be run in accordance with Onshore Order #2.

4 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Two centralizers run every 3rd joint to the base of the Ojo Alamo @ 2382'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2382'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

**Wellhead Equipment:** 8 5/8" x 4 1/2" x 2 3/8" x 11" 2000 psi xmas tree assembly.

August 29, 1994

**Cementing:**

8 5/8" surface casing - cement with 175 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (189 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test casing to 600 psi/30 minutes.

4 1/2" production casing - Lead w/596 sx of 65/35 Class "B" Poz w/6% gel, 2% calcium chloride, 5# gilsonite/sx and 1/4# flocele/sx. Tail w/100 sx Class "B" w/2% calcium chloride (1173 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. If cement does not circulate to surface, a temperature log will be run after 8 hours to determine TOC.

**BOP and tests:**

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2). Prior to drilling out surface casing, test rams to 600psi/30 min.

Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.

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

Pipe rams will be actuated to 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:**

- \* This well is intended for CO2 injection purposes only.
- \* This well was presented before the New Mexico Oil Conservation Division in hearing August 18, 1994 for the above procedure, and for non-standard location purposes.
- \* Anticipated pore pressure for the Fruitland is 700 psi.
- \* New casing will be utilized.
- \* Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.

