

OIL CONSEE . TOON DIVISION RECEIVED

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March 2, 1994

Sent Federal Express

Mr. William LeMay New Mexico Oil Conservation Division Post Office Box 2088 Santa Fe, New Mexico 87501

Re: Meridian Oil Inc. Cullins Federal #6 1510'FSL, 2390'FEL, Section 4, T-24-N, R-3-W - Rio Arriba County, New Mexico API # 30-039-(not assigned)

Dear Mr. LeMay:

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Meridian Oil Inc. is applying for administrative approval of a non-standard location for the above location in the West Lindrith Gallup Dakota formation. This application for the referenced location is due to terrain as shown on the topographic map and archaeology.

The following attachments are for your review:

- 1. Application for Permit to Drill.
- 2. Completed C-102 at referenced location.
- 3. Offset operators/owners plat and affadavit of notification..
- 4. 7.5 minute topographic map showing the orthodox windows for the southeast dedication for the West Lindrith Gallup Dakota, and enlargement of the map to define topographic features.
- 5. If the well were directionally drilled to a standard bottom hole location, the economics would be severely burdened due to the incremental directional drilling costs of \$150,000.

A copy of this application is being submitted to all offset owners/ operators by certified mail with a request that they furnish you with a Waiver of Objection, and return one copy to this office.

Sincerely. y yan Stadhuld Peggy Bradfield

Peggy Bradfield Regulatory/Compliance Representative encs.

WAIVER

hereby waives objection to Meridian Oil Inc.'s application for a nonstandard location for their Cullins Federal #6 as proposed above. By: _____ Date: _____

xc: Mobil Producing Texas & New Mexico Inc.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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a.	Type of Work	5. Lease Number
	DRILL	SF-080472
b.	Type of Well GAS	6. If Indian, All. or Tribe
2.	Operator	7. Unit Agreement Name
	MERIDIANOIL	
3.	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	Cullins Federal 9. Well Number
	(505) 326-9700	6
\$.	Location of Well	10. Field, Pool, Wildcat
	1510'FSL, 2390'FEL	W.Lindrith Gl Dakota
	Latitude 36 ⁰ 20' 11", Longitude 107 ⁰ 09	11. Sec., Twn, Rge, Mer. ' 39" Sec 4, T-24-N, R-3-W NMPM
14.	Distance in Miles from Nearest Town	12. County 13. State
	35 miles Counselors	Rio Arriba NM
15.	Distance from Proposed Location to Nearest Property 1510'	or Lease Line
16.	Acres in Lease	17. Acres Assigned to Well 160 SE/4
18.	Distance from Proposed Location to Nearest Well, Drl 2000'	g, Compl, or Applied for on this Lease
19.	Proposed Depth 8000'	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 7057 ' GL	22. Approx. Date Work will Start 2nd quarter 1994
23.	Proposed Casing and Cementing Program See Operations Plan attached	
24.	Authorized by: Hondrad	2-4-94
	Regional Drilling Engineer	Date
PERN	APF	PROVAL DATE
	OVED BY TITLE	DATE

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

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OPERATIONS PLAN

Well Name:	Cullins Federal #6
Location:	1510'FSL, 2390'FEL, Section 4, T-24-N, R-3-W
	Rio Arriba County, New Mexico
Formation:	West Lindrith Gallup Dakota
Elevation:	7057'GL

Formation Tops:

Surface	San Jose	Menefee	י 5060
Ojo Alamo	2950'	Point Lookout	5485'
Kirtland	3035'	Mancos	5860'
Fruitland	3045'	Gallup	6595'
Pictured Cliffs	3280'	Greenhorn	7465'
Lewis	3395'	Graneros	7520'
Chacra	י4170	Dakota	7550'
Cliff House	4910'	Morrison	7950'
		Total Depth	8000'
		-	

Logging Program: Mud logs from 3000' to Total Depth. GR-DIL-SP; LDT-CNL-DIL; Microlog; MRIL

Mud Program:

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<u>Interval</u>	Type	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 200'	Spud	8.4-8.9	40-50	no control
200-8000'	Non-dispersed	8.4-9.5	30-60	no control

Casing Program:

<u>Hole Size</u> 12 1/4" 7 7/8"	<u>Depth Interval</u> 0 - 200' 0 - 6800'	<u>Csq.Size</u> 8 5/8" 4 1/2"	<u>Wt.</u> 24.0# 10.5#	-	
Tubing Program:					

0 - 8000' 2 3/8" 4.7# J-55

Float Equipment:8 5/8" surface casing- saw tooth guide shoe. Centralizers to 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 turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 3035'. Standard centralizers thereafter every fourth joint up to base of surface pipe.

Wellhead Equipment: 85/8" x 41/2" x 23/8" x 11" 3000 psi xmas tree assembly.

Cementing:

8 5/8" surface casing - cement w/210 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (250 cu.ft. of slurry, 200% excess to circulate to surface). WOC 12 hrs. Test casing to 600 psi/30 minutes.

Page 2 Cullins Federal #6

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Cementing, cont'd.

4 1/2" production casing -

First stage - lead w/632 sx 65/35 Class "B" Poz w/6% gel and 2% calcium chloride. Tail w/100 sx Class "B' w/2% calcium chloride (1237 cu.ft. slurry, 100% excess to circulate stage tool @ 5485') Circulate 4 hrs between stages.

Second stage - lead w/358 sx 65/35 Class "B" Poz w/6% gel and 2% calcium chloride. Tail w/100 sx Class "B' w/2% calcium chloride (752 cu.ft. slurry, 100% excess to circulate stage tool @ 3835').

Third stage - lead w/925 sx 65/35 Class "B' Poz w/6% gel and 2% calcium chloride. Tail w/100 sx Class "B" w/2% calcium chloride (1755 cu.ft. 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 hrs to verify top of cement.

BOP and tests:

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

Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams to 3000 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:

* The West Lindrith Gallup Dakota formation will be completed.

* Anticipated pore pressure for the Gallup Dakota is 860 psi.

- * This gas is dedicated.
- * The SE/4 of Section 4 is dedicated to this well.
- * New casing will be utilized.

* Cementing contractor will provide BLM with a chronological log including the pump rate and pressure, and the slurry density and volume for all cement jobs.

* Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.



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11" Bore, 2000psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A Schaffer Type 50 or equivalent rotating head to be installed on the top of the BOP. All equipment is 2000psi working pressure/or greater.



Minimum BOP installation for Completion operations. 7 1/16" Bore (6" Nominal), 3000psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. MERIDIAN OIL INC. Choke Manifold Configuration 2M psi SYSTEM



Minimum choke manifold installation from surface to Total Depth. 2" minimum, 2000psi working pressure equipment with two chokes.



- 1. Existing Roads Refer to Map No. 1. Existing roads used to access the proposed location will be properly maintained for the duration of the project. Bureau of Land Management right-of-way has been applied for as shown on Map No. 1.
- 2. Planned Access Road Refer to Map No. 1. The required new access road is shown on Map No. 1. The gradient, shoulder, crowning and other design elements will meet or exceed those specified by the responsible government agency. The new access road surface will not exceed twenty feet (20') in width. No additional turnarounds or turnouts will be required. Upon completion of the project, the access road will be adequately drained to control soil erosion. Approximately 2000' of access road will be constructed. Pipelines are indicated on Map No. 1A.
- 3. Location of Existing Wells Refer to Map No. 1A.

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4. Location of Existing and/or Proposed Facilities if Well is Productive -

a. On the Well Pad - Refer to Plat No. 1, anticipated production facilities plat.

b. Off the Well Pad - Anticipated facilities off the well pad will be applied for as required.

- Location and Type of Water Supply Water will be hauled by truck for the proposed project and will be obtained from Cottonwood Water Hole located SW Section 10, T-24-N, R-4-W, New Mexico.
- 6. Source of Construction Materials If construction materials are required for the proposed project, such materials will be obtained from a commercial quarry.
- 7. Methods of Handling Waste Materials All garbage and trash materials will be removed from the site for proper disposal. A portable toilet will be provided for human waste and serviced in a proper manner. If liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying waste materials into the watershed. All reserve pits will be lined with 12 mil bio-degradable plastic liner. All earthen pits will be so constructed as to prevent leakage from occurring; no earthen pit will be located on natural drainage. Generation of hazardous waste is not anticipated. Federal regulations will be adhered to regarding handling and disposal of such waste if so generated.
- 8. Ancillary Facilities None anticipated.
- 9. Wellsite Layout Refer to the location diagram and to the wellsite cut and fill diagram (Figure No. 4). The blow pit will be constructed with a 2'/160' grade to allow positive drainage to the reserve pit and prevent standing liquids in the blow pit.

- 10. Plans for Restoration of the Surface After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed mixture as designated by the responsible government agency will be used. The reseeding operations will be performed during the time period set forth by the responsible government agency. The permanent location facilities will be painted as designated by the responsible government agency.
- 11. Surface Ownership Bureau of Land Management.
- 12. Other Information Environmental stipulations as outlined by the responsible government agency will be adhered to. Refer to the archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, historical and cultural sites.
- 13. Operator's Representative and Certification Meridian Oil Regional Drilling Manager, Post Office Box 4289, Farmington, NM 87499, telephone (505) 326-9700. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan, are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Meridian Oil Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Regional Drilling Engineer

JWC:pb







MERIDIAN OIL INC. Pipeline Map T-24-N, R-03-W Rio Arriba County, New Mexico Cullins Federal #6 Map #1A

3/91 adw/mjb





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DISTRICT I P.O. Box 1980, Hobbs, NM \$2340

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DISTRICT II P.O. DERWE DO, Annue, NM 18210

DISTRICT III 1000 Rio Brenz Rd., Astor, NM 87410

State of New-Mexico = Energy, Minamia and Natural Resources Department.

Form:C-102 == Reviews 1-1-89 ==

OIL CONSERVATION DIVISION

P.O. Box 2088

Sanza Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundanes of the section

Meridi	an Oil Inc.	L	Cullins Fed	eral	well No. 6
J	4 Townson 4 24 Nor	th Real	3 West	County NMEPM	RIo Arriba
1510 for	ed Well: t from the South Protocold Formation	line end.	2390	fest from the East	
7057'	Gallup Dakota		West Lindrith		160 Acres
2. If more that 3. If more that unitstances If abstract is "	'ne" list the events and that desce	, Calines each and ideal is definited to the well generar is "yes" type of	isty the overalisis thereof (both , have the interest of all overale constitution	a to wating more	
this form of a No alternation or units a nor	will be annuger's so the west time a -standard time, adjustmenting state an	and, has been approve	checkidents (by communication of by the Division.	e, unicipitos, forces	praise, or alternus).
		280.0	1	OP	ERATOR CERTIFICATION
4	3	2	/	baan ya fa baan ya fa baan ya fa baan ya fa baan ya fa baan ya fa	eqqy Bradfield
7.24					Peridian Oil Inc.
548		USA	SF-080472	H I heres W I heres Gan ihus accuus supern	RVEYOR CERTIFICATION y carrify that the well location shown plat was platted from field noise of surveys made by me or under my son, and that the same is true and
	,		2390'	Date S	11 11:93
		1510'			(9357) (9357)

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MERIDIAN OIL INC

CULLINS FEDERAL #6 OFFSET OPERATOR PLAT

Unorthodox Well Location

Township 24 North, Range 3 West



1) Meridian Oil Inc

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2) Mobil Producing Texas & New Mexico, Inc PO Box 663, Midland, TX 79701 Re: Meridian Oil Inc. Cullins Federal #6 1510'FSL, 2390'FEL, Section 4, T-24-N, R-3-W - Rio Arriba County, New Mexico API # 30-039-(not assigned)

I hereby certify that the following offset operators/owners have been mailed notification of our application for non-standard location to drill the referenced well.

Mobil Producing Texas and New Mexico Inc. PO Box 663 Midland, TX 79701

Bradpield Peggy A. Bradfield

Peggy A. Bradfield San Juan County State of New Mexico

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My commission expires August 17, 1996



