MERIDIAN OIL

Received 4/30/93

April 29, 1993

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

Re: NSL-2689 dated August 23, 1989 Meridian Oil Inc. San Juan 28-5 Unit #200 Revised location at 1995'FNL, 885'FEL Section 14, T-28-N, R-05-W Rio Arriba County, New Mexico

Dear Mr. LeMay:

Meridian Oil Inc. is applying for revised administrative approval of a non-standard location for the above location in both the Fruitland Coal and Pictured Cliffs formations. This well is planned as a Basin Fruitland Coal/South Blanco Pictured Cliffs commingled completion.

Administrative Order NSL-2689 was issued for this well at 1475'FNL, 490'FEL dated August 23, 1989 for the Fruitland Coal formation. The well was not drilled at that time, and the application for permit to drill from the Bureau of Land Management rescinded.

It is now planned to drill and complete this well at 1995'FNL, 885'FEL of Section 14, T-28-N, R-5-W, Rio Arriba County, New Mexico as a Basin Fruitland Coal/South Blanco Pictured Cliffs commingled well. Application for commingling will also be made by Meridian Oil.

This revised application for the referenced location is due to terrain 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 for both formations. All lands surrounding this proration unit are within the San Juan 28-5 Unit boundaries with Meridian Oil as operator of the unit.
- 4. 7.5 minute topographic map showing the orthodox windows for the north half dedication, the orthodox windows for the northeast quarter, 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 \$130,000.

Sincerely, Jegger Gradpield

Peggy Bradfield Regulatory/Compliance Representative

encs.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

1a.	Type of Work	5. Lease Number SF-079250
1b.	DRILL Type of Well	6. If Indian, All. or Tribe
15.	GAS	
2.	Operator	7. Unit Agreement Name
	MERIDIAN OIL	San Juan 28-5 Unit
3.	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	San Juan 28-5 Unit
	(505) 326-9700	9. Well Number 200
4.	Location of Well	10. Field, Pool, Wildcat
	1995'FNL, 885'FEL	S.Blanco Pic.Cliffs/ Basin Ft Coal
		11. Sec., Twn, Rge, Mer.
	Latitude 36° 39' 47", Longitude 107° 19' 19"	Sec 14,T-28-N,R-5-W NMPM
14.	Distance in Miles from Nearest Town	12. County 13. State
	4 miles to Gobernador, NM	Rio Arriba NM
15.	Distance from Proposed Location to Nearest Property or Lease 885'	Line
16.	Acres in Lease 2453.70	17. Acres Assigned to Well 320/160 N/2 NE/4
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, 70'	or Applied for on this Lease
19.	Proposed Depth 4440'	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 7292 ' GR	22. Approx. Date Work will Start
	7292 GR	2nd quarter 1993
23.	Proposed Casing and Cementing Program See Operations Plan attached	······································
24	Authorized by: Malanel	1/12/02
24.	Regional Drilling Engineer	Date 4-//3/73
		· · · ·
PERM	IT NO APPROVAL D	DATE
APPR	OVED BY TITLE	DATE

APD for this well at 1475'FNL, 490'FEL approved 8-28-89 and rescinded 9-24-91.

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DISTRICT III

DISTRICT I P.O. Box 1980, Hobbs, NM 52240

DISTRICT II 2.0. Drawer DD, Artena, NM \$\$210

WELL LOCATION AND ACREAGE DEDICATION PLAT

OIL CONSERVATION DIVISION

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

1000 Rio Brazos Rd., Azec, NM 87410

All Distances must be from the outer boundanes of the section



Ferm C-102 Reviews 1-1-85

April 13, 1993

OPERATIONS PLAN

Well Name: San Juan 28-5 Unit #200
Location: 1995'FNL, 885'FEL Section 14, T-28-N, R-05-W
Rio Arriba County, New Mexico
Latitude 36^o 39' 47", Longitude 107^o 19' 19"
Formation: Basin Fruitland Coal/South Blanco Pictured Cliffs
Elevation: 7292'GL

Formation:	Top	Bottom	Contents
Surface Ojo Alamo	San Jose 3520'	3520 ' 3740'	aquifer
Kirtland	3740'	4000'	1
Fruitland	4000'	4245'	
Fruitland Coal Top	4085'	4240'	gas
Pictured Cliffs	4245'	4470 '	gas
Lewis	4470'		
Total Depth	4440'		

Logging Program: Mud logs from 3975' to Total Depth. DIL, CNL-LDT, ML, NGT, HR Density -surface to TD.

Mud Program:

Interval	Туре	Weight	Vis.	Fluid Loss
0- 200'	Spud		40-50	no control
200-4440'	Non-dispersed	8.4-9.5	30-60	no control

Casing Program:

<u>Hole Size</u>	Depth Interval	Csg.Size	<u>Wt.</u>	<u>Grade</u>
12 1/4" 7 7/8"	0 - 200' 0 - 4440'	8 5/8" 4 1/2"	24.0# 10.5#	
Tubing Program:	0 - 4440'	2 3/8"	4.7#	J-55

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. Four centralizers run every 3rd joint to the base of the Ojo Alamo @ 3740'. Two turbolizing type centralizers one below and one into the base of the Ojo Alamo @ 3740'. 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" 3000 psi xmas tree assembly.

April 13, 1993

Page 2 San Juan 28-5 Unit #200

Cementing:

8 5/8" surface casing - cement with 235 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (298 cu.ft. of slurry, 200% excess to circulate to surface). WOC 12 hrs. Test casing to 600 psi for 30 minutes.

4 1/2" production casing -

First stage - cement with 247 sx Class "B" cement with 2% calcium chloride, 6.25# gilsonite/sx and 1/4# flocele/sx (292 cu.ft. of slurry, 100% excess to circulate stage tool @ 3800').

Second stage - lead w/962 sx of 65/35 Class "B" poz w/6% gel, 2% calcium chloride, 5# gilsonite/sx and 1/4# flocele/sx. Tail w/25 sx Class "B" w/2% calcium chloride (1732 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. Test casing to 1500 psi/minutes.

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 600#/30 min.

Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams to 3000#/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 Fruitland Coal and Pictured Cliffs formations will be completed and commingled per New Mexico Oil Conservation Division order. Anticipated pore pressure for the Fruitland is 1150 psi and for the Pictured Cliffs is 1150 psi.

This gas is dedicated.

The North half of the section is dedicated to the Fruitland Coal and the Northeast quarter of the section is dedicated to the Pictured Cliffs.

New casing will be utilized.

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



Minimum BOP installation for a typical Pictured Cliffs well from surface to Total Depth. 11" Bore (10" Nominal), 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 BOP. All equipment is 2000psi working pressure/or greater.

Figure #1



Minimum BOP installation for Completion Operations. 7 1/16" Bore (6" Nominal), 2000psi minimum working pressure double gate BOP to be equipped with blind and pipe rams.

MERIDIAN OIL INC. Typical Pictured Cliffs Well Choke Manifold Configuration



Minimum choke manifold installation for a typical Pictured Cliffs well from surface to Total Depth. 2", 2000psi working pressure equipment with two chokes.

Figure #3

San Juan 28-5 Unit #200 Multi-Point Surface Use Plan

- 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. None required.
- 3. Location of Existing Wells Refer to Map No. 1A.
- 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.

- 5. Location and Type of Water Supply Water will be hauled by truck for the proposed project and will be obtained from San Juan 29-6 Water Well #1 in located in SW/4 Section 28, T-29-N, R-6-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 guarry.
- 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.

4/13/93

Regional Drilling Engineer

JWC:pb







MERIDIAN OIL INC. Pipeline Map T-28-N, R-05-W San Juan County, New Mexico San Juan 28-5 Unit #200 Map #1A



Well Pad Boundary

ANTICIPATED PRODUCTION FACILITIES



FRUITLAND COAL/PICTURED CLIFFS COMMINGLED WELL



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215TRICT 1 2.0. Box 1980, Hobbs, NM 58240

2ISTRICT II 2.0. Drawer DD, Ariana, NM \$\$210

DISTRICT III 1000 Rio Bring Rd., Arise, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

Ferm C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT All Distances must be from the outer boundanes of the section

Merid:	an Oil Inc	, L a	San Juan 28	3-5 Unit	200
Unit Loner Sec H	Town	28 North	5 West	Country	Rio Arriba
Actions Footings Locations 1995 feet	from the No	orth lime and	885		ast lime
Ground level Elev. 7292 '	Producing Form Fruitland	Coal/Pic.Cliff	n s Basin/So.	Blanco	320/160
2. If more that 3. If more that unscention. X Ye - If answer is "i this form if se	a one inner is dedicant (force-pacing, etc.? a No of list the owners and a commity	subject well by colored peace o the well, cuttime each and ide wanthip is dediesned to the we if answer a "yei" type o act descriptions which have act will units all unaratis have been	nicity the ownership thereof () nit, have the guarant of all own of constitutionUr maily been exceptioned. (Use	at as to wating means the two according by hitization	
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MERIDIAN OIL INC

SAN JUAN 28-5 UNIT #200

OFFSET OPERATOR \ OWNER PLAT

Fruitland Coal / Pictured Cliffs Formations Commingle

Township 28 North, Range 05 West



1) Meridian Oil Inc

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Pictured Cliffs Formation



Fruitland Formation







STATE OF NEW MEXICO -ENERGY AND MINERALS DEPARTMENT AZTEC DISTRICT DEPUDENSERVETION DIVISION **OIL CONSERVATION DIVISION** RECEIVED

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1000 010 000 0000 ALIEC, NEW MEXICO 07410 (505) 004-0170

Valo: 5-28-53

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011 Conservation Division P.O. Box 2088 Santa Fo, NH 87504-2088

Proposed HC Re: Proposed DHC Proposod HSL A Proposed SWD Proposed WFX____ Proposed FMX____

NSL-3248 $\mathbb{C}^{n} = \{0,1\}^{n}$

Gentlemen:

1 have examl	ned the applicati	on dated <u>4-30-9</u>	3
for the	Uperator	5. <u>5. 5. 28-5 Un</u> Lease & Well No.	1 # 200
Unit, S-T-R		recommendations are a	s follows:
Approve	, 		
	الموا تعديد عامل والمعار والمع		
	عنت عني مين مينا بعا هن عنو الله ومن الله الله الله الله عن الله عن الله الله الله عنه الله عن الله	میں ویر ماند میں	-

Yours truly,

June Burg