### MERIDIAN OIL

May 5, 1993 Rec. 5/6/93

Sent Federal Express

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

Re:

Meridian Oil Inc. Johnston Federal #7B

1275'FNL, 810'FWL Section 7, T-31-N, R-9-W

San Juan County, New Mexico

Dear Mr. LeMay:

Meridian Oil Inc. is applying for administrative approval of a non-standard location for the above location in the Mesa Verde formation.

This application for the referenced location is due to terrain as shown on the enclosed maps and this being a non-standard short section.

The following attachments are for your review:

- Application for Permit to Drill.
- 2. Completed C-102 at referenced location.
- 3. Offset operators/owners plat. Meridian Oil is the operator of the surrounding proration unit.
- 4. 7.5 minute topographic map showing the orthodox windows for the north half dedication 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 \$200,000.

Sincerely,

Peggy Bradfield

Regulatory/Compliance Representative

Sracheld

encs.

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

a.	Type of Work	5. Lease Number
	DRILL	SF-078439
lb.	Type of Well GAS	6. If Indian, All. or Tribe
2.	Operator MERIDIAN ©IL	7. Unit Agreement Name
3.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499	8. Farm or Lease Name Johnston Federal 9. Well Number
	(505) 326-9700	7B
١.	Location of Well 1275'FNL, 810'FWL	10. Field, Pool, Wildcat Blanco Mesa Verde
	Latitude 36° 54' 59", Longitude 107° 49' 16"	11. Sec., Twn, Rge, Mer. Sec 7, T-31-N, R-9-W NMPM
14.	Distance in Miles from Nearest Town 4 miles to Cedar Hill	12. County 13. State San Juan NM
15.	Distance from Proposed Location to Nearest Property or Lease 810'	Line
16.	Acres in Lease	17. Acres Assigned to Well 266.77 N/2
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, 65 '	or Applied for on this Lease
19.	Proposed Depth 6177'	<b>20. Rotary or Cable Tools</b> Rotary
21.	Elevations (DF, FT, GR, Etc.) 6556'GR	22. Approx. Date Work will Start 2nd quarter 1993
23.	Proposed Casing and Cementing Program See Operations Plan attached	
24.	Authorized by: Rakhall	4/21/93
	Regional Drilling Engineer	Date
PERM	IIT NO APPROVAL D	PATE
۸۵۵۶	OVED BY TITLE	DATE

Archaeological Report will be submitted

Threatened and Endangered Species Report will be submitted

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

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

# State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

## OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

DISTRICT III
1000 Rio Brazos Rd., Azzec, NM 87410

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundanes of the section

Meri	dian Oil Inc.				
	Gian Oil inc.	•	Johnston Fe	ederal	7B
	Section Town		Range	Coun	ty
C	<i>'</i>	31 North	9 West	NMPM	San Juan
Footage Location		1.3	010	,	
	feet from the NOT	rth lime and	810	feet from the	West line
level Elev.			Pool		Dedicated Acreage:
6556'	Mesa Ver		Blanco		266.77 Acres
3. If more ti			i identify the ownership thereof a well, have the interest of all o	•	• •
If answer is this form if No allowable	Yes No "no" list the owners and tr neccessary. is will be assigned to the w	ell until all interests have b	ean consolidated (by communic		d-pooling, or otherwise)
or until a no	1335.84		proved by the Division.	L#284 OF	FRATOR CERTIFICATION
	40.68	40.44 M.	40.32 widion Oil Inc.	contail	nereby certify that the informed herein in true and complete to my inowledge and belief.
8	1275'	6 500 B/a	eridian Oil Inc. 9 AVEL 4: 9/1/52 Accom Molamy.	Signatu	gy Bradfield
	3/0	Je.	ingles #7	Printed	Name ulatory Affairs
597	40.81 Meridian Cill	40.45 USA NM5F-07843	9		idian Oil Inc.
9	O Johnston Fed. 4, 5001:4, 1840 FA	17A 115/77 4-500/2001 14/15/77	12	Date	4-14-93
11.90		7		30. 3r.	RVEYOR CERTIFICATION
-0	40.43	40.22	40,22	on this	ry certify that the well location si plat was plotted from field note surveys made by me or under
11.79	15	14	1 13	supervi correct belief.	to the best of my knowledge
2					1-26-93
7.11	40.28	40.21	40.21	Signati Profess	Burn Star NEXION P
17	18	19	20	2	6857
		<u>.</u>		Certifi	Veale LAND

#### OPERATIONS PLAN

Well Name: Johnston Federal #7B

1275'FNL, 810'FWL Section 7, T-31-N, R-9-W Location:

San Juan County, New Mexico

Latitude 36° 54' 59", Longitude 107° 49' 16"

Formation: Blanco Mesa Verde

Elevation: 6556'GL

-

Formation Tops:	<u>Top</u>	Bottom	Contents
Surface	San Jose	1872'	
Ojo Alamo	1872'	1904'	aquifer
Kirtland	1904'	3003'	gas
Fruitland	3003'	3383'	gas
Pictured Cliffs	3383'	3625'	gas
Lewis	3625'	4156'	gas
Intermediate TD	3825'		
Chacra	4156'	4133'	gas
Mesa Verde	4930'		gas
Upper Cliff House	4930'	5224'	gas
Massive Cliff House	5224'	5285'	gas
Menefee	5285 <b>'</b>	5 <b>627'</b>	gas
Massive Point Lookout	5627'	5737'	gas
Lower Point Lookout	5737'		gas & oil
Total Depth	6177'		-

#### Logging Program:

Openhole Wireline Logging -

Surface to Total Depth : GR/DIL
Intermediate TD to Total Depth : GR/LDT/CNL/DIL

Mud Logs/Coring/DST -Mud logs - none
Coring - none

DST none

#### Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 200'	Spud	8.4-8.9	40-50	no control
200-3825'	Weighted	8.4-9.1	30-60	no control
3825-6177 <b>'</b>	Gas/Mist	n/a	n/a	n/a

Pit levels will be visually monitored to detect gain or loss of fluid 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' - 3825'	7"	20.0#	K-55
6 1/4"	3675' - 6177'	4 1/2"	10.5#	K-55

#### Tubing Program:

0' - 6177' 2 3/8" 4.7# J-55

#### BOP Specifications, Wellhead and Tests:

#### Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

#### Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

#### Surface to Total Depth -

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

#### Completion Operations -

6" 3000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 3000 psi for 15 minutes.

#### Wellhead -

= :

9 5/8" x 7" x 2 3/8" x 3000 psi tree assembly.

#### General -

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- A BOP pit level drill will be conducted weekly for each drilling crew.
- All of the BOP tests and drills will be recorded in the daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

#### Cementing:

9 5/8" surface casing - cement with 180 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (212 cu.ft. of slurry, 200% excess to circulate to surface). WOC 12 hrs. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

#### 7" intermediate casing -

Lead w/664 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 (1293 cu.ft. of slurry, 125% excess to circulate to surface). WOC minimum of 12 hours before drilling out intermediate casing. If cement does not circulate to surface, a temperature log will be run after 8 hours to determine TOC. Test casing to 1500 psi for 30 minutes.

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Nine bowspring centralizers spaced every other joint off bottom, with three spaced every fourth joint to the base of the Ojo Alamo at 1904'. Two turbolating centralizers at the base of the Ojo Alamo at 1904'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

#### 4 1/2" Production Liner -

Cement to circulate liner top. Lead with 187 sx 50/50 Class "B" Poz with 2% gel, 0.6% fluid loss additive. Tail with 100 sx 50/50 Class "B" Poz with 2% gel, 0.6% fluid loss additive, 6.25#/sx gilsonite and 1/4#/sx cellophane flakes (450 cu.ft., 75% excess to circulate liner top). WOC a minimum of 18 hrs prior to completing.

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom to top of the Mesa Verde or above. The liner hanger will have a rubber packoff.

- If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.
- The pipe will be rotated and/or reciprocated, if hole conditions permit.

#### Special Drilling Operations (Gas/Mist Drilling):

The following equipment will be operational while gas/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- · Deduster equipment will be utilized.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

#### Additional Information:

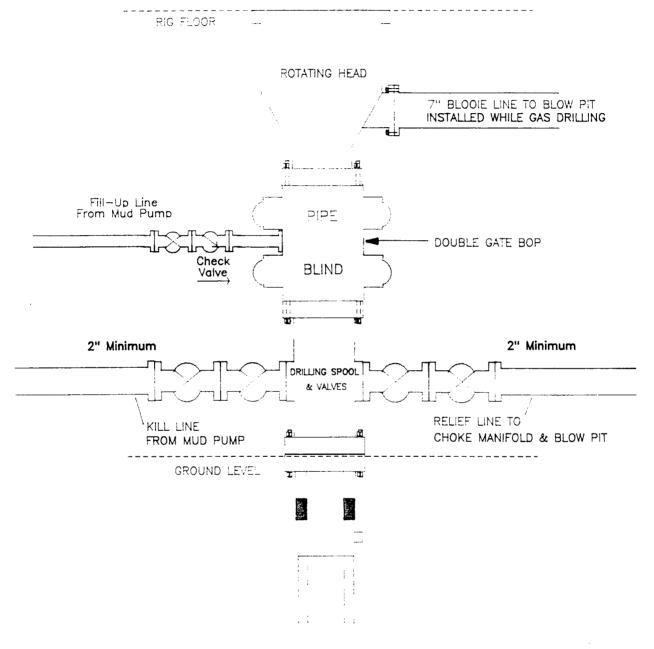
- The Mesa Verde formation will be completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal 1000 psi

Mesa Verde 700 psi

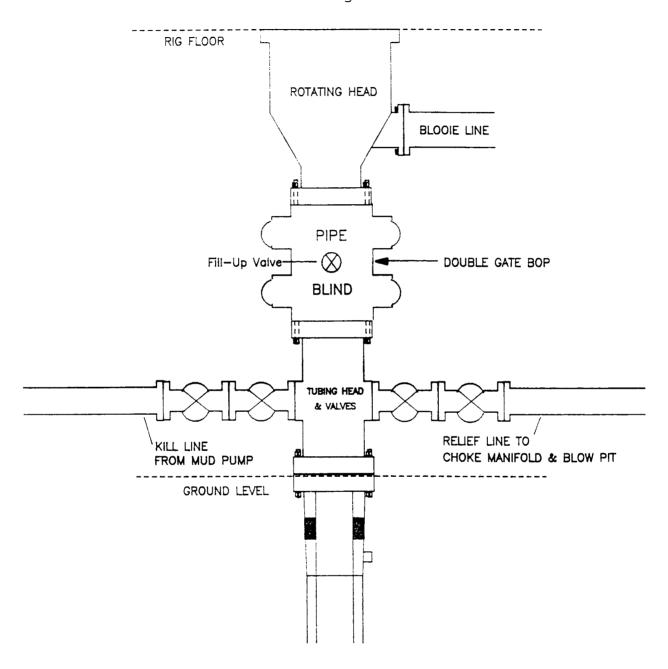
- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The North half of Section 7 is dedicated to this well.
- This gas is dedicated.

Mesaverde Well BOP Configuration



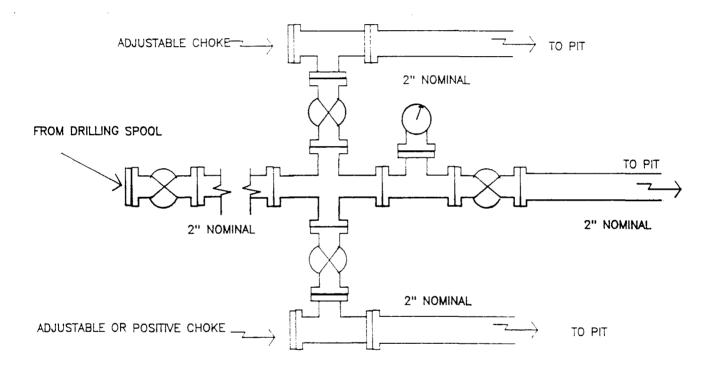
Minimum BOP installation for a Mesaverde well from Surface to Total Depth. 11" Bore, 2000psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A Schaffer Type 50 or equivalent rotating nead to be installed on the top of the BOP. All equipment is 2000psi working pressure or greater.

Mesaverde Well — Completion Rig BOP Configuration



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.

Mesaverde Well Choke Manifold Configuration



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. 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 Hart Canyon Water Well located in NW/4 Section 28, T-31-N, R-10-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.

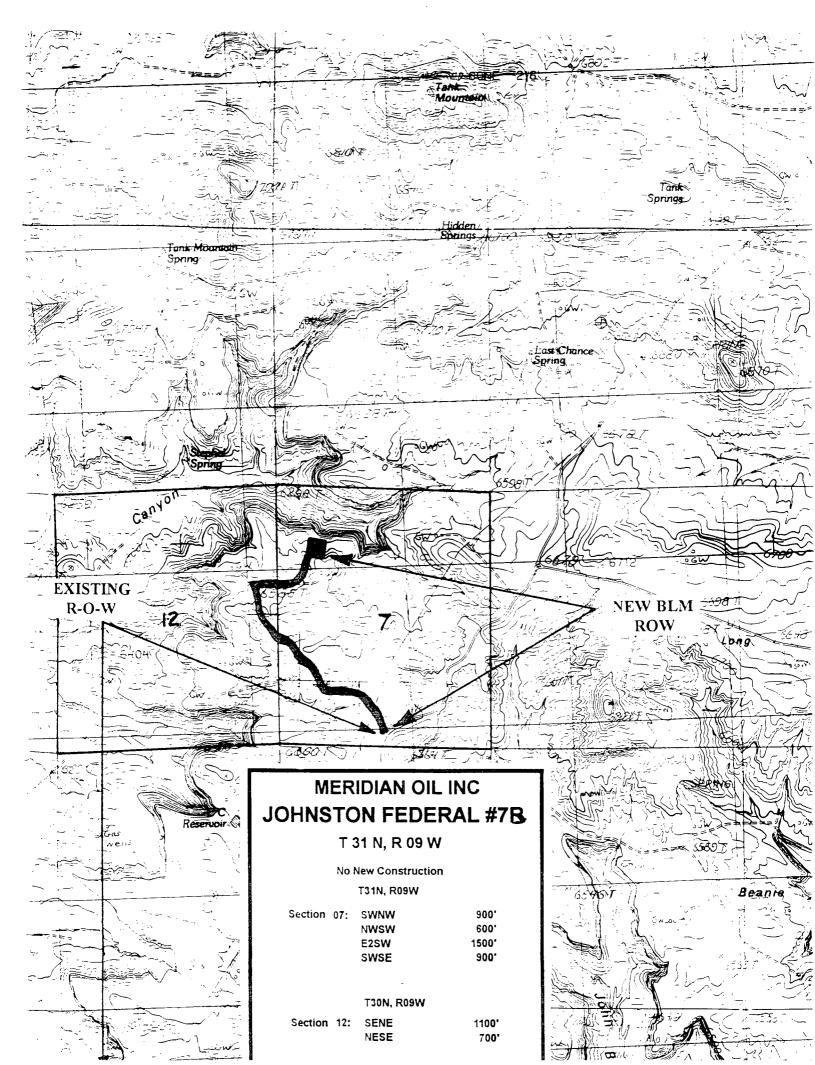
- 10. Plans for Restoration of the Surface After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed mixture as designated by the responsible government agency will be 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.

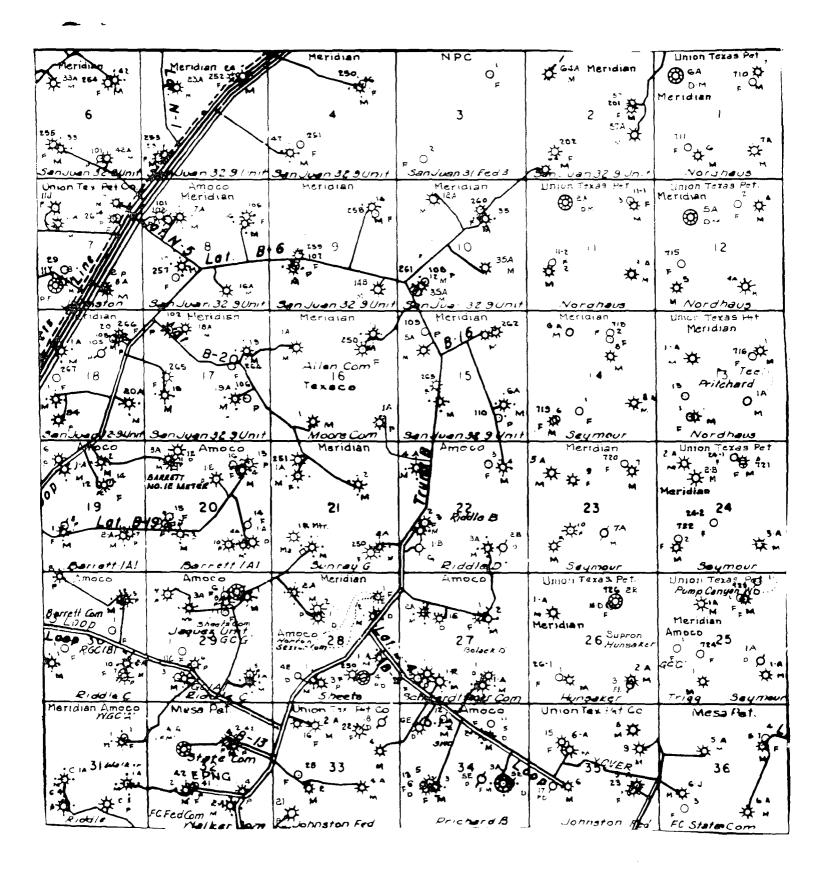
Regional Drilling Engineer

Date

4/21/93

JWC:pb





MERIDIAN OIL INC.
Pipeline Map
T-31-N, R-09-W
San Juan County, New Mexico

Johnston Federal #7B Map #1A WELL PAD BOUNDARY Well Head CATHODIC PROTECTION Earthen Berm \*xxxxxxxxxxxxxxxx Separator Tanks (As required) **қхххххххххххххх**ххххх Dehydrator Fiberglass Pit Chemical Facility Meter Run 

PLAT #1

# MERIDIAN OIL

ANTICIPATED
PRODUCTION FACILITIES
FOR A
MESA VERDE WELL

# Name: MOI JOHNSTON FEDERAL **MERIDIAN OIL** -W NMPM Plat 5 Elevation: 6556 Date: 1-26-93 Blow Pit o deep SO'x1 20'x8' deep N-75°-W LAYDOWN Wellhead to front Wellnead to back 120 F2: CONSTRUCTION ZONE C/L 6566 6556 6546 C/L B - B. 6566 6556 6546 C/L C - C, 6566 6556 6546

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

#### State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

## OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

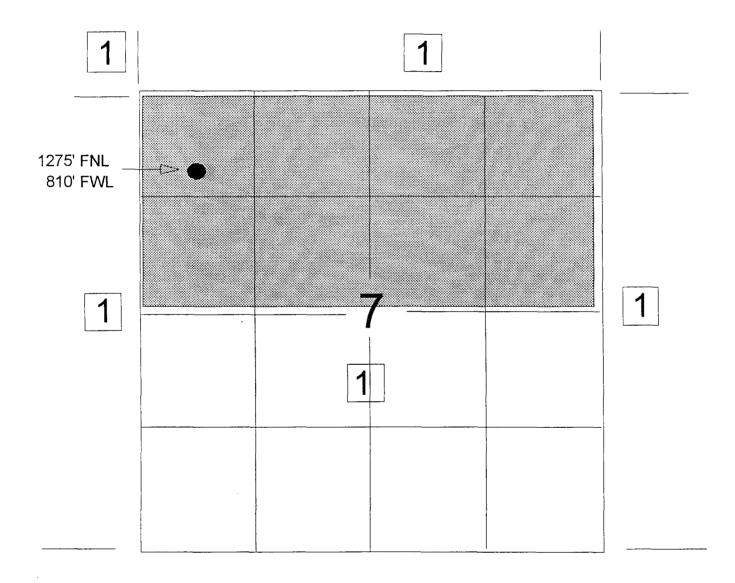
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

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

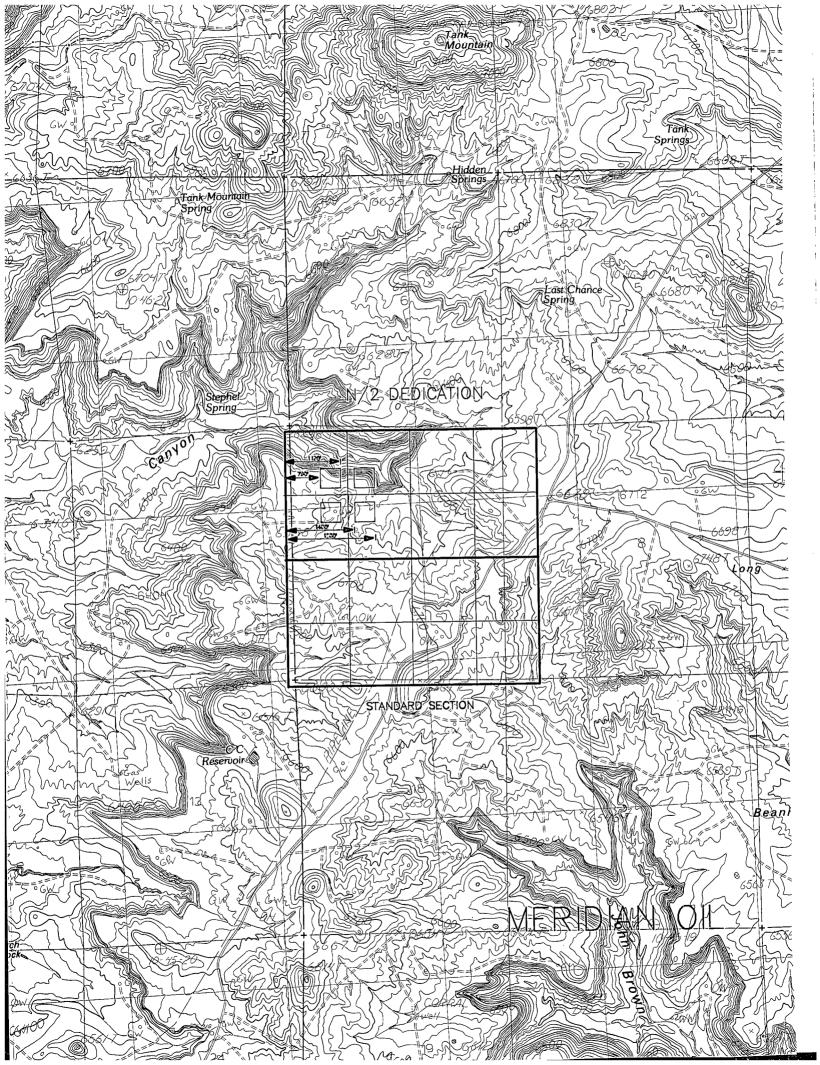
### WELL LOCATION AND ACREAGE DEDICATION PLAT

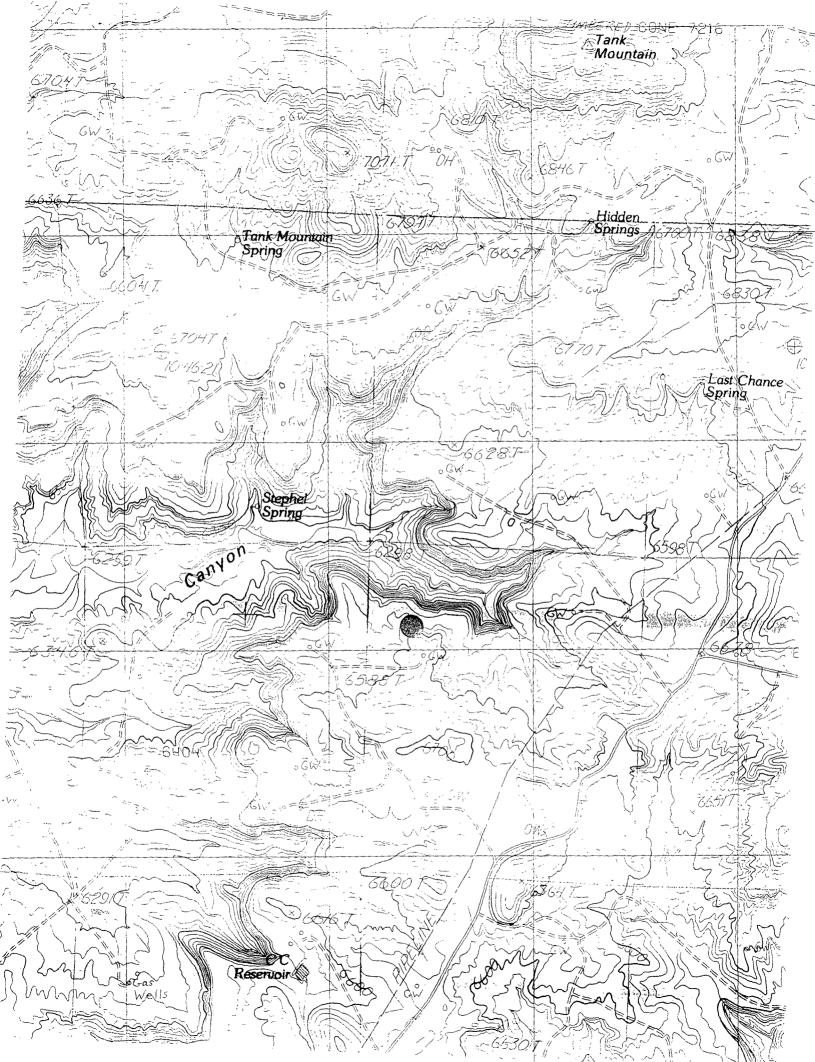
Round level Elev. Producing Formation Pool  1. Outline the acreage dedicated to the subject well by colored peacil or hackure marks on the plat below.  2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest of all owners been consolidated to unstriction, force-pooling, etc.?  Yes No If answer is "yes" type of consolidation  If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if neccessary.  No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced or until a non-standard unit, eliminating such interest, has been approved by the Division.  387.42' 1335.84' 2671.02'  OPI  Containing the part of the plat below.	Wall No
Towaship  C  Towaship  All North  Section  Section  Towaship  All North  Section  Towaship  Section  Towaship  North  Section  Section  Towaship  Section  Section  Towaship  Mesa Verde  Blanco  Section  Section  Section  Section  Section  Towaship  Mesa Verde  Blanco  Section  Section  Section  Section  Section  Section  Section  Towaship  Section  Section  Towaship  Towaship  Towaship  Section  Towaship  Towa	Well No.
C 7 31 North 9 West NMPM  all Foctage Location of Well:  1275 feet from the North line and 810 feet from the Wind Isvel Elev.  Producing Formation Pool 6556' Mesa Verde Blanco  1. Outline the acreage dedicated to the subject well by colored pencil or hackure marks on the plat below.  2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest).  3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by unstitution, force-pooling, etc.?  Yes No If answer is "yes" type of consolidation.  If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if neccessary.  No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced or until a non-standard unit, eliminating such interest, has been approved by the Division.  387.42' 1335.84' 2671.02' OPI	7в
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and level Elev.  Producing Formation  Blanco  1. Outline the acreage dedicated to the subject well by colored peacil or hackure marks on the plat below.  2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest.)  3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by unitization, force-pooling, etc.?  Yes No If answer is "yes" type of consolidation.  If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necoessary.  No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced or until a non-standard unit, eliminating such interest, has been approved by the Division.  387. 42' 1335. 84' 2671.02'  OPI  Contains the sum of the sum o	est <sub>line</sub>
1. Outline the acreage dedicated to the subject well by colored pencil or hackure marks on the plat below.  2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest.)  3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by unitization, force-pooling, etc.?  Yes No If answer is "yes" type of consolidation  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, forced or until a non-standard unit, eliminating such interest, has been approved by the Division.  387. 42' 1335.84' 2671.02' OPI  Community  Community  Peqq  Printed N	Dedicated Acreage:
1. Outline the acreage dedicated to the subject well by colored pencil or hackure marks on the plat below.  2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest.)  3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by unitization, force-pooling, etc.?  Yes No If answer is "yes" type of consolidation  If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if neccessary.  No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced or until a non-standard unit, eliminating such interest, has been approved by the Division.  387. 42' 1335. 84' 2671. 02'  OPI  Contains  Signature  Pegg  Printed N	266.77 Acres
this form if neccessary.  No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced or until a non-standard unit, eliminating such interest, has been approved by the Division.  387. 42' /335. 84' 2671. 02' OPI  contains been of many part of the part	
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	y Bradfield
Meri   Company	dian Oil Inc.  5-5-93  RVEYOR CERTIFICATION
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390.72' /334.52' 2669.04'	

# OFFSET OPERATOR/OWNER PLAT JOHNSTON FEDERAL #7B Unorthodox Well Location NW NW Section 7 Township 31 North, Range 9 West



<sup>1)</sup> Meridian Oil Inc., Operator, 3535 East 30th St., P.O. Box 4289, Farmington, New Mexico 87499-4289





#### OIL CONSERVATION COMMISSION

P. O. BOX 871

To All

August 6, 1958

Anderson-Prichard Cil Corporation Charles F. White, Attorney Liberty Bank Building Oklahoma City, Oklahoma

Administrative Order NWU-284

Gentlemen:

Reference is made to your application for approval of a 263.25-acre non-standard gas provation unit in the Blance Mesaverde Gas Pool consisting of the following acreage:

TOWNSHIP 31 NORTH, BANGE 9 WEST, NMPN Section 7: N/2

It is understood that this unit is to be decirated to your Johnston-Federal Well No. 7, located 990 feet from the North Line and 990 feet from the East Line of said Section 7,

By authority granted me under the provisions of Rule 1 (b), Section 15 of the Special Rules and Regulations for the Blance Mesaverie Gas Pool, as set forth in Order R-128-D, you are hereby authorized to operate the above described acreage as a non-standard gas provation unit, with allowable to be assigned therete in accordance with the pool rules, based upon the unit size of 265.25 acres.

Very truly yours,

A. L. PORTER, Jr., Secretary-Ulrecter

ALP/CEP/OR

oo: Oil Conservation Commission - Astes
Oil & Gas Engineering Committee - Hobbs



# ENERGY AND MINERALS DEPARTIMENT OIL CONSCIPATION DIVISION AZTEC DISTRICT OFFICE

THEY CAPRUTHERS GOVERNOR

10xx) PHT BRAZUS BRAD 21EC: PH W MEXICO 07410 4 (5051934-0178

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