

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL
1b. TYPE OF WELL

2. OPERATOR
MERIDIAN OIL INC.

3. ADDRESS & PHONE NO. OF OPERATOR
P O BOX 4289
FARMINGTON, NM 87499

4. LOCATION OF WELL
1310'S 1330'W

5. LEASE NUMBER
SF-078050
6. IF INDIAN, ALL. OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
TURNER HUGHES
9. WELL NO.
273

10. FIELD, POOL, OR WILDCAT
BASIN FRUITLAND COAL
11. SEC. T. R. M OR BLK.
N SEC. 4 T27N R09W NMPM

12. COUNTY
SAN JUAN
13. STATE
NM

14. DISTANCE IN MILES FROM NEAREST TOWN
20 miles S. of Blanco NM

15. DISTANCE FROM
PROPOSED LOCATION 1310'
TO NEAREST PROPERTY
OR LEASE LINE.

16. ACRES IN LEASE
1195.05
17. ACRES ASSIGNED TO WELL
306.98

18. DISTANCE FROM
PROPOSED LOCATION
TO NEAREST WELL DR. 300'
COMPL., OR APPLIED
FOR ON THIS LEASE.

19. PROPOSED DEPTH
2433'
20. ROTARY OR CABLE TOOLS
ROTARY

21. ELEVATIONS (DF, FT, GR, ETC.)
6393'GL

22. APPROX. DATE WORK WILL START

23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS PLAN

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

24. AUTHORIZED BY: [Signature]
REGULATORY AFFAIRS

5-18-89
DATE

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY _____ TITLE _____ DATE _____

NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160-5

HOLD COPY FOR PRR OF
TURNER HUGHES & NMOCDE

Well Name: 273 TURNER HUGHES 1310'S 1330'W
 Sec. 4 T27N R09W SAN JUAN NEW MEXICO
 FRUITLAND COAL Elevation 6393'GL

Formation tops: Surface- Nacimiento
 Ojo Alamo- 1480
 Kirtland- 1573
 Fruitland- 2056
 Fruitland Coal Top- 2294
 Fruitland Coal Base- 2432
 Intermediate TD- 2275
 Total Depth- 2433
 Pictured Cliffs- 2437

Logging Program: Mud logs from intermediate to total depth.

Mud Program:	Interval	Type	Weight	Visc.	Fl. Loss
	0 - 200	Spud	8.4 - 8.9	40-50	no control
	200 - 2275	Non-dispersed	8.4 - 9.1	30-60	no control
	2275 - 2433	Formation Water	8.4		no control

Casing Program:	Hole Size	Depth Interval	Csg. Size	Weight	Grade
	12 1/4"	0 - 200	9 5/8"	32.3#	H-40
	8 3/4"	0 - 2275	7"	20.0#	K-55
	6 1/4"	2225 - 2433	5 1/2"	15.5#	K-55
Tubing Program:		0 - 2433	2 7/8"	6.5#	J-55

Float Equipment: 9 5/8" surface casing - saw tooth guide shoe.

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 the guide shoe.

5 1/2" production casing - float shoe on bottom and a 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 7/8" x 11" 3000 psi xmas tree assembly.

Cementing:

9 5/8" surface casing - cement with 106 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (125 cu ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

7" intermediate casing - lead with 116 sacks of 65/35 class "B" poz with 6% gel, 2% calcium chloride and 1/2 cu ft. Perlite/sack (10.3 gallons of water/sack) tail with 100 sacks of class "B" with 2% calcium chloride. 342 cu ft. of slurry, of sufficient volume to circulate to surface. As necessary, run temperature survey at 8 hours. WOC 12 hours. Test casing to 1500 psi for 30 minutes.

5 1/2" liner - do not cement.

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

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

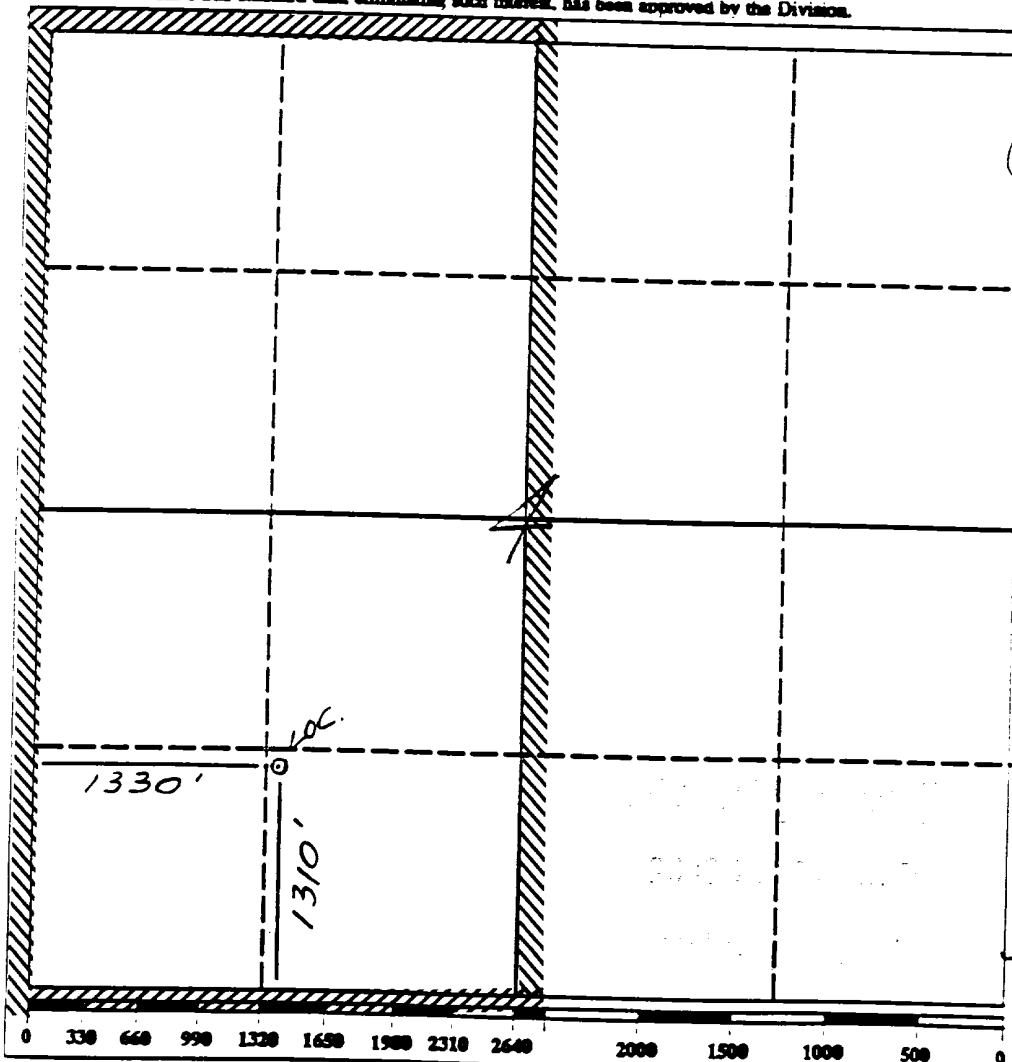
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Meridian Oil Inc.			Lease Turner Hughes (SF-078050)			Well No. 273		
Unit Letter A	Section 4	Township 37 North	Range 9 West	County San Juan				
Actual Footage Location of Well: 1310 feet from the South line and 1330 feet from the West line								
Ground level Elev. 6393		Producing Formation Fruitland Coal			Pool Basin		Dedicated Acreage: 306.98 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or ballpoint 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 and royalty).
3. 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 _____
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 Affairs

Position

Meridian Oil Inc.

Company

5-17-89

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.

4-21-89

Date Surveyed

Neale C. Edwards

Signature of Sealer

Professional Surveyor

REGISTERED LAND SURVEYOR

6857

Certificate No.

6857

State Lands

SF078050

303

BLM ROW
TURNER HUGHES 213

T 27 u, 29 w

Section 9: $uvw \in \mathbb{N}^3$

9: NWNE 100'
NE NE 1700'
NW NE 1500'