

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL	5. LEASE NUMBER SF-077383
1b. TYPE OF WELL GAS	6. IF INDIAN, ALL. OR TRIBE NAME
2. OPERATOR MERIDIAN OIL INC.	7. UNIT AGREEMENT NAME
3. ADDRESS & PHONE NO. OF OPERATOR P O BOX 4289 FARMINGTON, NM 87499	8. FARM OR LEASE NAME J. C. DAVIDSON J. C. F.
4. LOCATION OF WELL 2295'N 1000'E	9. WELL NO. 502
14. DISTANCE IN MILES FROM NEAREST TOWN 10 MILES FROM BLOOMFIELD	10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL
	11. SEC. T. R. M OR BLK. H SEC. 27 T28N R10W NMPM
15. DISTANCE FROM PROPOSED LOCATION 1000' TO NEAREST PROPERTY OR LEASE LINE.	12. COUNTY 13. STATE SAN JUAN NM
	16. ACRES IN LEASE 17. ACRES ASSIGNED TO WELL 1280 320.00
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. 400' COMPL., OR APPLIED FOR ON THIS LEASE.	19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS 1885' ROTARY
21. ELEVATIONS (DF, FT, GR, ETC.) 5844'GL	22. APPROX. DATE WORK WILL START

23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS PLAN

OPERATIONS AUTHORITY ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".

24. AUTHORIZED BY: *Mark B. Miller*
REGULATORY AFFAIRS

5-5-89
DATE

PERMIT ~~Approval of this action does~~ APPROVAL DATE

APPROVED BY *not warrant that the applicant*
holds legal or equitable

DATE

NOTE: THIS FORM IS ISSUED IN LIEU OF US BLM FORM 3160-*1* *APFA MANAGER*

Well Name: 502 DAVIDSON J. C. F. 2295'N 1000'E
 Sec. 27 T28N R10W SAN JUAN NEW MEXICO
 BASIN FRUITLAND COAL Elevation 5844'GL

Formation tops: Surface- NACIMIENTO

Ojo Alamo- 845
 Kirtland- 981
 Fruitland- 1558
 Fruitland Coal Top- 1740
 Fruitland Coal Base- 1882
 Intermediate TD- 1720
 Total Depth- 1885
 Pictured Cliffs- 1888

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 - 1720	Non-dispersed	8.4 - 9.1	30-60	no control
	1720 - 1885	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 - 1720	7"	20.0#	K-55
	6 1/4"	1670 - 1885	5 1/2"	15.5#	K-55
Tubing Program:		0 - 1885	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 75 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. 263 cu ft. of slurry, 100% excess to cover the Ojo Alamo. 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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Meridian Oil Inc.		Lease J.C. Davidson F (SF-077383)		Well No. 502	
Unit Letter H	Section 27	Township 32 North	Range 10 West	County San Juan	
Actual Footage Location of Well: 2295 feet from the North line and 1000 feet from the East line					
Ground level Elev. 5844	Producing Formation Fruitland coal		Pool Basin	Dedicated Acreage: 320 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.

Reissued to show moved location.

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

5-5-89

Date

SURVEYOR CERTIFICATION

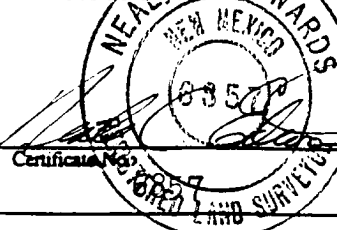
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

3-18-89

Date Surveyed

Neale C. Edwards

Signature & Seal of
Professional Surveyor



Certificate No.

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

27

BLM ROW

Section	27: E2SE	2750'
	34: NENE	1300'
	NWNE	250'
	SWNE	1400'
	SE NW	700'
	NE SW	1200'
	SE SW	900'
	SW SW	600'
	33: W2E2	5500'
	28: W2SE	2700'

Section 3: E2NW 3000'
SWNW 500'
NWSW 1000'

4: E2NE 2000'
NWNE 1000'

Map 2