

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-043260B #76387
1b. TYPE OF WELL GAS SINGLE ZONE	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 ROSS COM
4. LOCATION OF WELL 1350'S 1225'W	9. WELL NO. 502
14. DISTANCE IN MILES FROM NEAREST TOWN 5 MILES FROM AZTEC	10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL
	11. SEC. T. R. M OR BLK. L SEC. 33 T30N R11W NMPM
15. DISTANCE FROM PROPOSED LOCATION 1225' TO NEAREST PROPERTY OR LEASE LINE.	12. COUNTY SAN JUAN
16. ACRES IN LEASE 433.79	13. STATE NM
17. ACRES ASSIGNED TO WELL 320.2289	
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. 3600' COMPL., OR APPLIED FOR ON THIS LEASE.	19. PROPOSED DEPTH 2120'
	20. ROTARY OR CABLE TOOLS ROTARY
21. ELEVATIONS (DF, FT, GR, ETC.) 5866'GL	This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.
	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".

CON. DIV.

24. AUTHORIZED BY: *[Signature]*
REGULATORY AFFAIRS

DATE

Held C-104 For CA (E)

"Approval of this action does
NOT WARRANT THAT THE BUREAU
HELDS LEGAL OR EQUITABLE RIGHTS
OR TITLE TO THIS LAND."

BLM/ACC

FOR AREA

Linda Rundell

OPERATIONS PLAN

DATE: MAR 15, 1989

Well Name: 502 ROSS COM 1350'S 1225'W
 Sec. 33 T30N R11W SAN JUAN NEW MEXICO
 BASIN FRUITLAND COAL Elevation 5866'GL

Formation tops: Surface- NACIMIENTO
 Ojo Alamo- 724
 Kirtland- 881
 Fruitland- 1730
 Fruitland Coal Top- 1910
 Fruitland Coal Base- 2118
 Intermediate TD- 1890
 Total Depth- 2120
 Pictured Cliffs- 2126

Logging Program: Mud logs from intermediate to total depth.

Mud Program: Low solid non-dispersed mud from surface to total depth.

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 - 1890	7"	20.0#	K-55
	6 1/4"	1840 - 2120	5 1/2"	15.5#	K-55
Tubing Program:		0 - 2120	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 liner - 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 120 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. 350 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.

The Fruitland coal formation will be completed.

A 3000 psi WP and 6000 psi test double gate preventer equipped with blind and pipe rams will be used for blow out prevention on this well. This gas is dedicated.

The W/2 of Section 33 is dedicated to this well.

All distances must be from the outer boundaries of the Section.

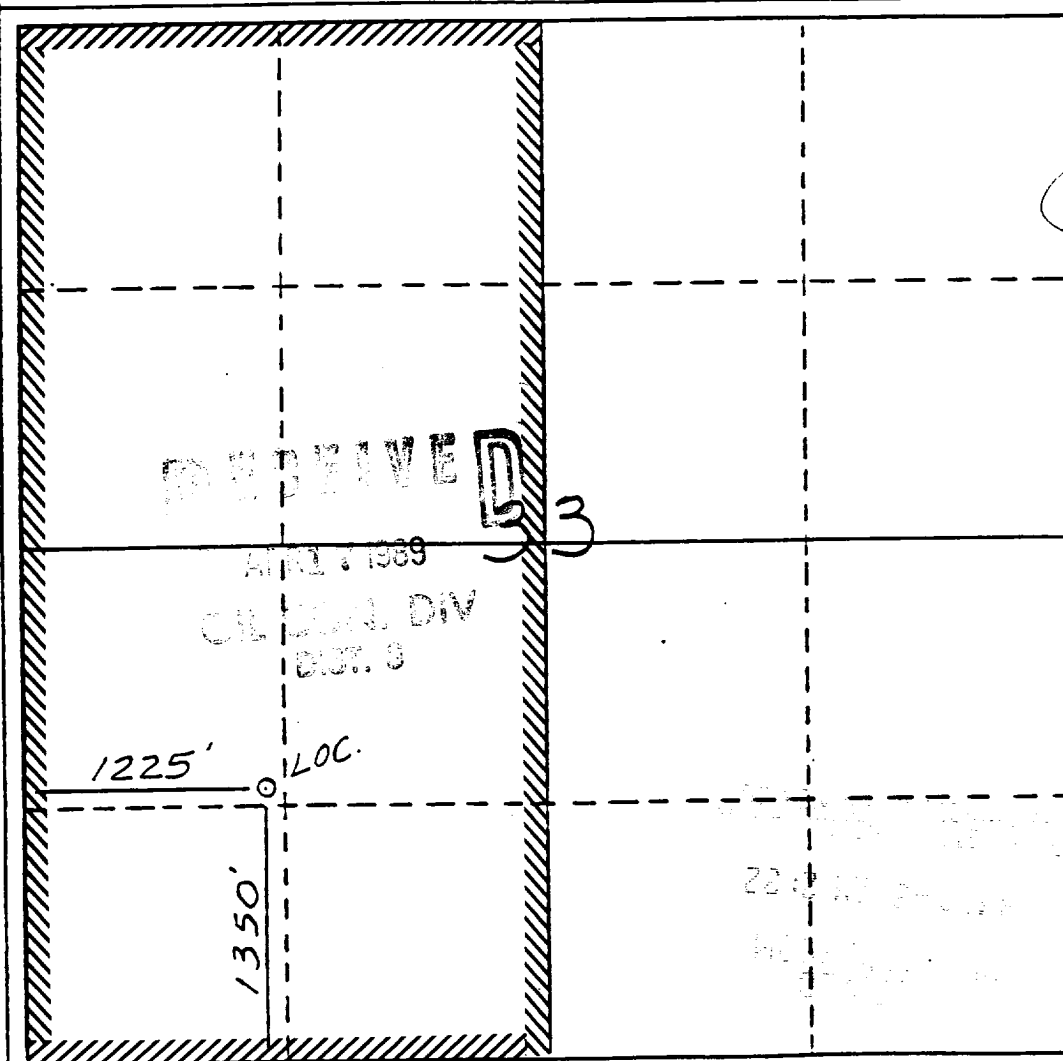
Operator Meridian Oil Inc.		Lease Ross Com (SF-43260B)		Well No. 502
Unit Letter L	Section 33	Township 30 North	Range 11 West	County San Juan
Actual Footage Location of Well: 1350 feet from the South line and 1225 feet from the West line				
Ground Level Elev. 5866	Producing Formation Fruitland Coal	Pool Basin	Dedicated Acreage: 320.82 A	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 work interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☒ No If answer is "yes," type of consolidation _____ Communitization agreement be prepared.

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 interests, has been approved by the Division.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name
Regulatory Affairs
Position
Meridian Oil Inc.
Company

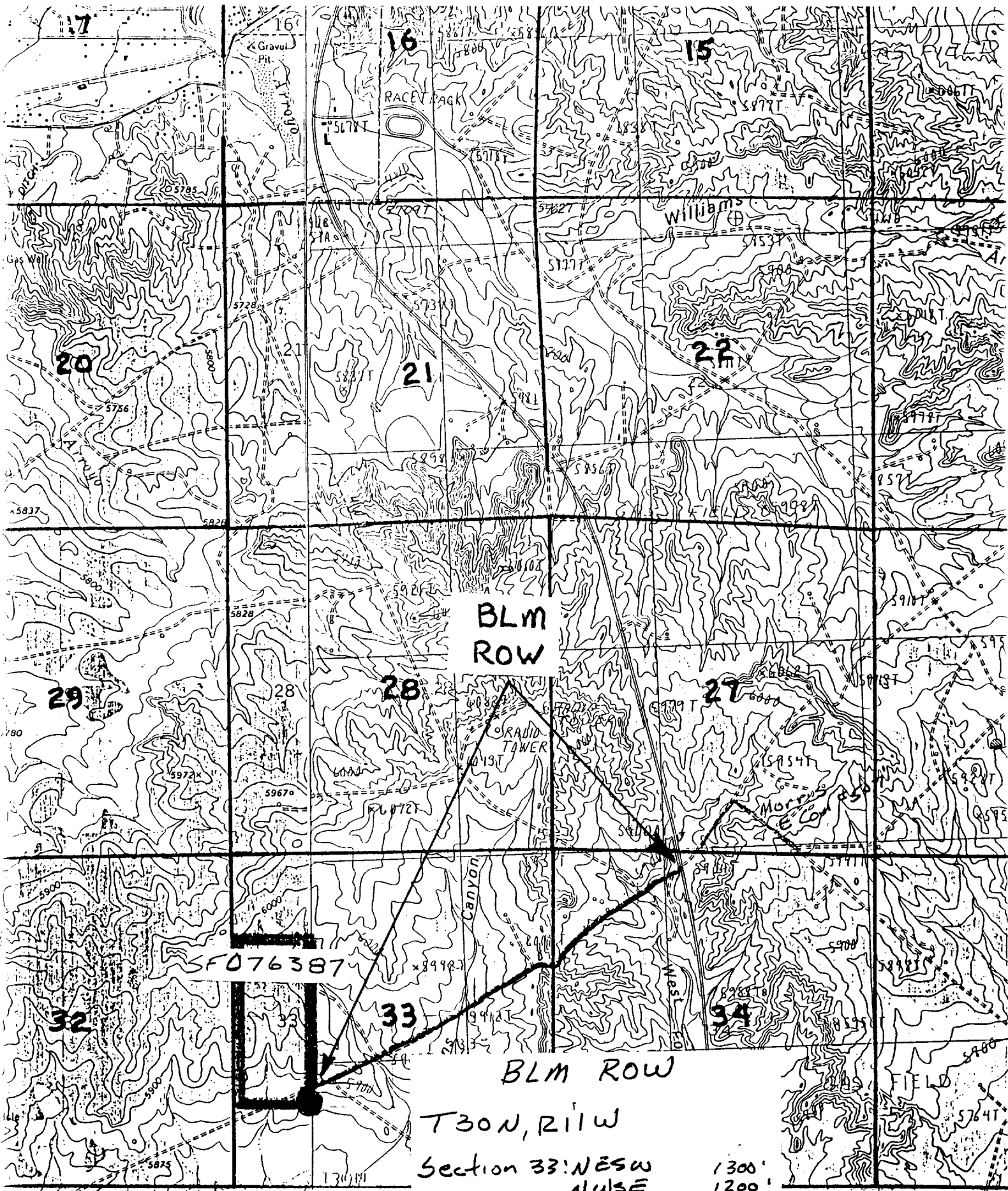
Date

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

Date Surveyed
12-1-88
Registered Professional Engineer and/or Land Surveyor

Neale C. Edwards

Certificate No.
6857



Ross
Com 502

Section 33: NESW
NWSE
SWNE
SENE
34: SWNW
NW NW

1300'
1200'
300'
1500'
600'
1900'

Map 7.