

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

30-045-28250
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL	5. LEASE NUMBER SF-03598
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 BLANCO
4. LOCATION OF WELL 790' FSL, 1755' FWL	9. WELL NO. 330
10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL	11. SEC. T. R. M OR BLK. SEC. 5 T31N R08W NMPM
14. DISTANCE IN MILES FROM NEAREST TOWN 10 MILES N. OF GOBERNADOR	12. COUNTY SAN JUAN
	13. STATE NM
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE. 790'	16. ACRES IN LEASE 17. ACRES ASSIGNED TO WELL 160 w/ 321.36
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. 300' COMPL., OR APPLIED FOR ON THIS LEASE.	19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS 3323' ROTARY
21. ELEVATIONS (DF, FT, GR, ETC.) 6418' GL	22. APPROX. DATE WORK WILL START

23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS PLAN

24. AUTHORIZED BY:

REG. DRILLING ENGR. OIL CON. DIV.

DIST. 3

SEP 24 1990

9/6/90
DATE

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

APPROVED
AS AMENDED

SEP 18 1990

NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160-8

AREA MANAGER

HOLD C-104 FOR CA

AMOCOD

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 Blanco (NM-03598)		Well No. 330
Unit Letter N	Section 5	Township 31 North	Range 8 West	County NMPM San Juan	
Actual Footage Location of Well: 790 feet from the South line and 1755 feet from the West line					
Ground level Elev. 6418'		Producing Formation Fruitland Coal		Pool Basin	
					Dedicated Acreage: 321.36 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hectare 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 communitization agreement will be obtained
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.

OPERATOR CERTIFICATION

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

Peggy Bradford
Signature

Peggy Bradford
Printed Name

Regulatory Affairs
Position

Meridian Oil Inc.
Company

9-6-90
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.

7-26-90

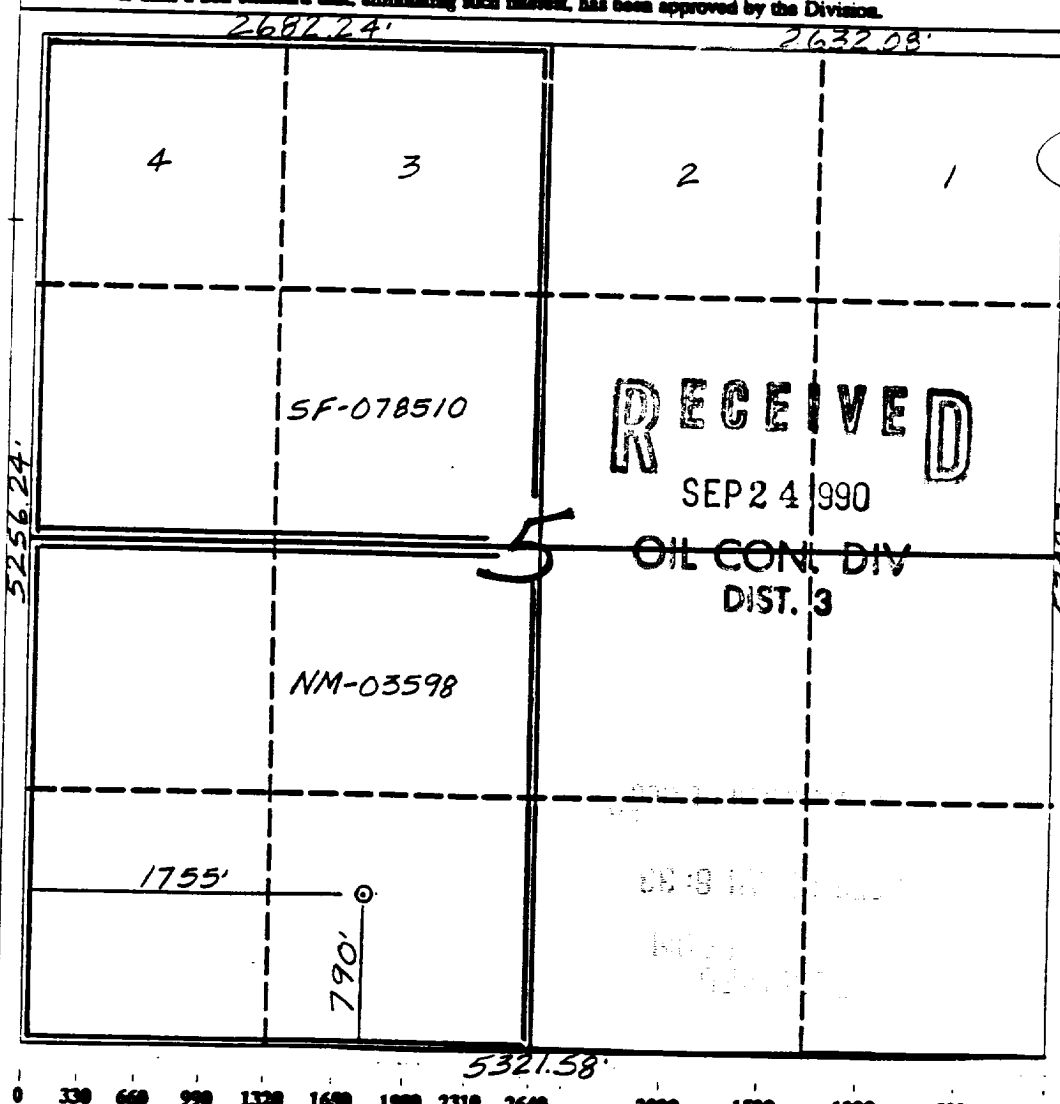
Date Surveyed

Neale C. Edwards
Signature of Surveyor



Certificate No.

Neale C. Edwards



Well Name: 330 BLANCO
 Sec. 5 T31N R08W
 BASIN FRUITLAND COAL

790' FSL 1755' FWL
 SAN JUAN NEW MEXICO
 Elevation 6418' GL

Formation tops: Surface- SAN JOSE
 Ojo Alamo- 2050
 Kirtland- 2105
 Fruitland- 2940
 Fruitland Coal Top- 2971
 Fruitland Coal Base- 3321
 Pictured Cliffs- 3324

Intermediate TD- 2942
 Total Depth- 3323

Logging Program: Mud logs from intermediate to total depth.

Mud Program:	Interval	Type	Weight	Visc.	Fl. Loss
	0 - 400	Spud	8.4 - 8.9	40-50	no control
	400 - 2942	Non-dispersed	8.4 - 9.1	30-60	no control
	2942 - 3323	Formation Water	8.4		no control

Casing Program:	Hole Size	Depth Interval	Csg. Size	Weight	Grade
	12 1/4"	0 - 400	9 5/8"	32.3#	H-40
	8 3/4"	0 - 2942	7"	20.0#	K-55
	6 1/4"	2892 - 3323	5 1/2"	15.5#	K-55
Tubing Program:		0 - 3323	2 7/8"	6.5#	J-55

Float Equipment: 9 5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

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. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2105'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

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.

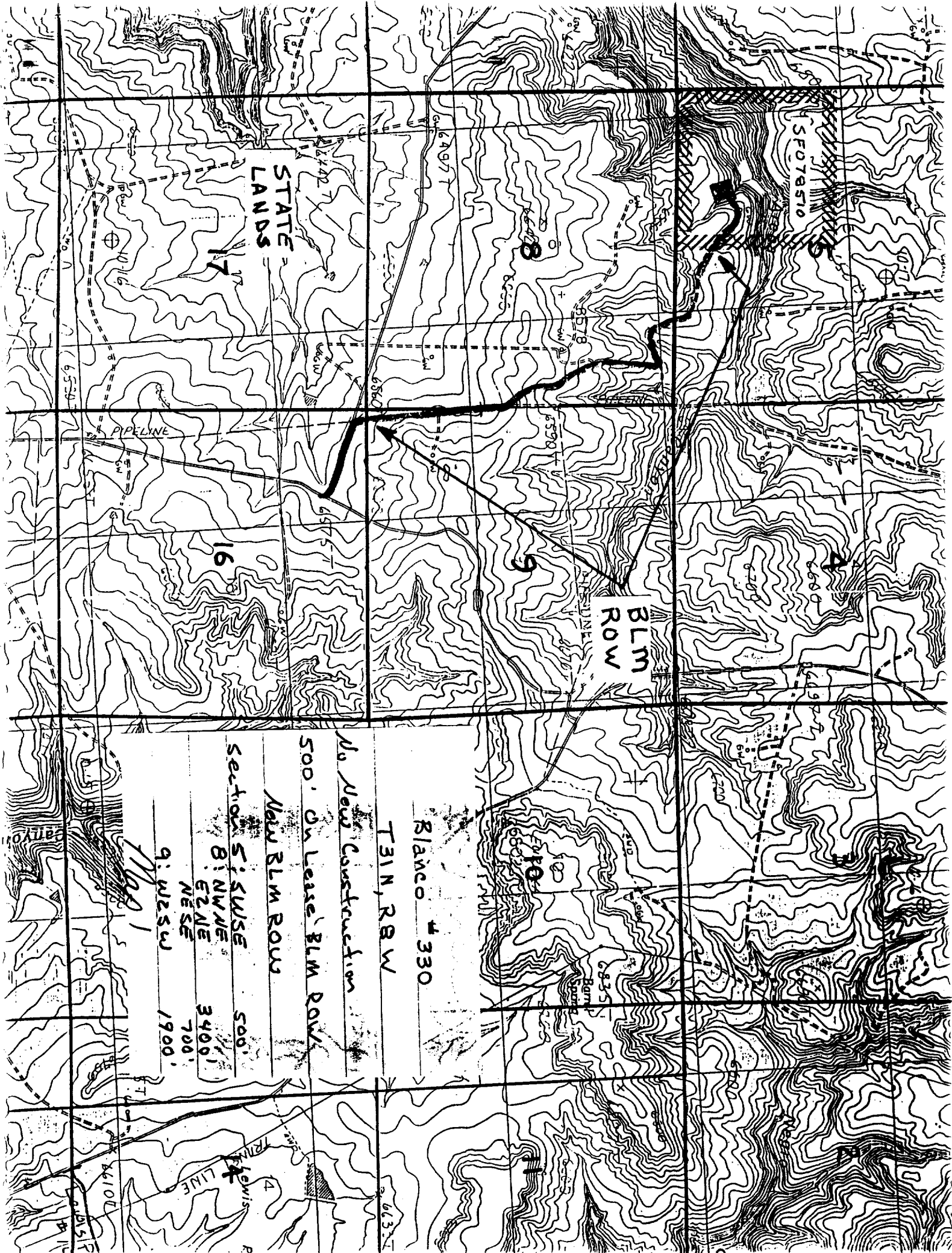
Wellhead Equipment: 9 5/8" x 7" x 2 7/8" x 11" 3000 psi xmas tree assembly.

Cementing:

9 5/8" surface casing - cement with 319 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (376 cu ft. of slurry, 200% excess to circulate to surface). WOC 12 hours. Test casing to 800 psi for 30 minutes.

7" intermediate casing - lead with 430 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. 949 cu ft. of slurry, 110% excess to circulate to surface. If hole conditions permit, a 600 ft spacer will be run ahead of the cement slurry to avoid mud contamination of the cement. WOC 12 hours. If cement does not circulate to surface, a temperature log will be run after 8 hours to determine TOC.

5 1/2" liner - do not cement.



STATE
LANDS

BLM
ROW

PIPELINE

New Construction

500' On Lease BLM ROW

New BLM ROW

Section 5, S1/4 SE 1/4

BLM ROW

NE 1/4

9: W2SW

Rancho # 330

T31N, R8W

1100

1900