

30-045-28098

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-078386
1b. TYPE OF WELL GAS	6. IF INDIAN, ALL. OR TRIBE NAME
2. OPERATOR MERIDIAN OIL INC.	7. UNIT AGREEMENT NAME SAN JUAN 32-9 UNIT
3. ADDRESS & PHONE NO. OF OPERATOR P O BOX 4289 FARMINGTON, NM 87499	8. FARM OR LEASE NAME SAN JUAN 32-9 UNIT
4. LOCATION OF WELL 980' FSL 1085' FEL	9. WELL NO. 110
14. DISTANCE IN MILES FROM NEAREST TOWN 19 MILES FROM AZTEC	10. FIELD, POOL, OR WILDCAT UNDESIGNATED PICTURED CLIFFS
15. DISTANCE FROM PROPOSED LOCATION 980' TO NEAREST PROPERTY OR LEASE LINE.	11. SEC. T. R. M OR BLK. SEC. 15 T31N R09W NMPM
16. ACRES IN LEASE 17. ACRES ASSIGNED TO WELL 157.64	12. COUNTY SAN JUAN
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. 600' COMPL., OR APPLIED FOR ON THIS LEASE.	13. STATE NM
21. ELEVATIONS (DF, FT, GR, ETC.) 6542' GL	22. APPROX. DATE WORK WILL START

23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS PLAN

24. AUTHORIZED BY: *[Signature]* **RECEIVED** AUG 08 1990 7/20/90
REG. DRILLING ENGR. DATE

OIL CON. DIV.

PERMIT NO. _____ APPROVAL DATE _____ DIST. 3

APPROVED BY _____ TITLE _____ DATE _____

NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160-3.

NMOOD

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 4-1-89

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 00, Artesia, NM 88210

DISTRICT III

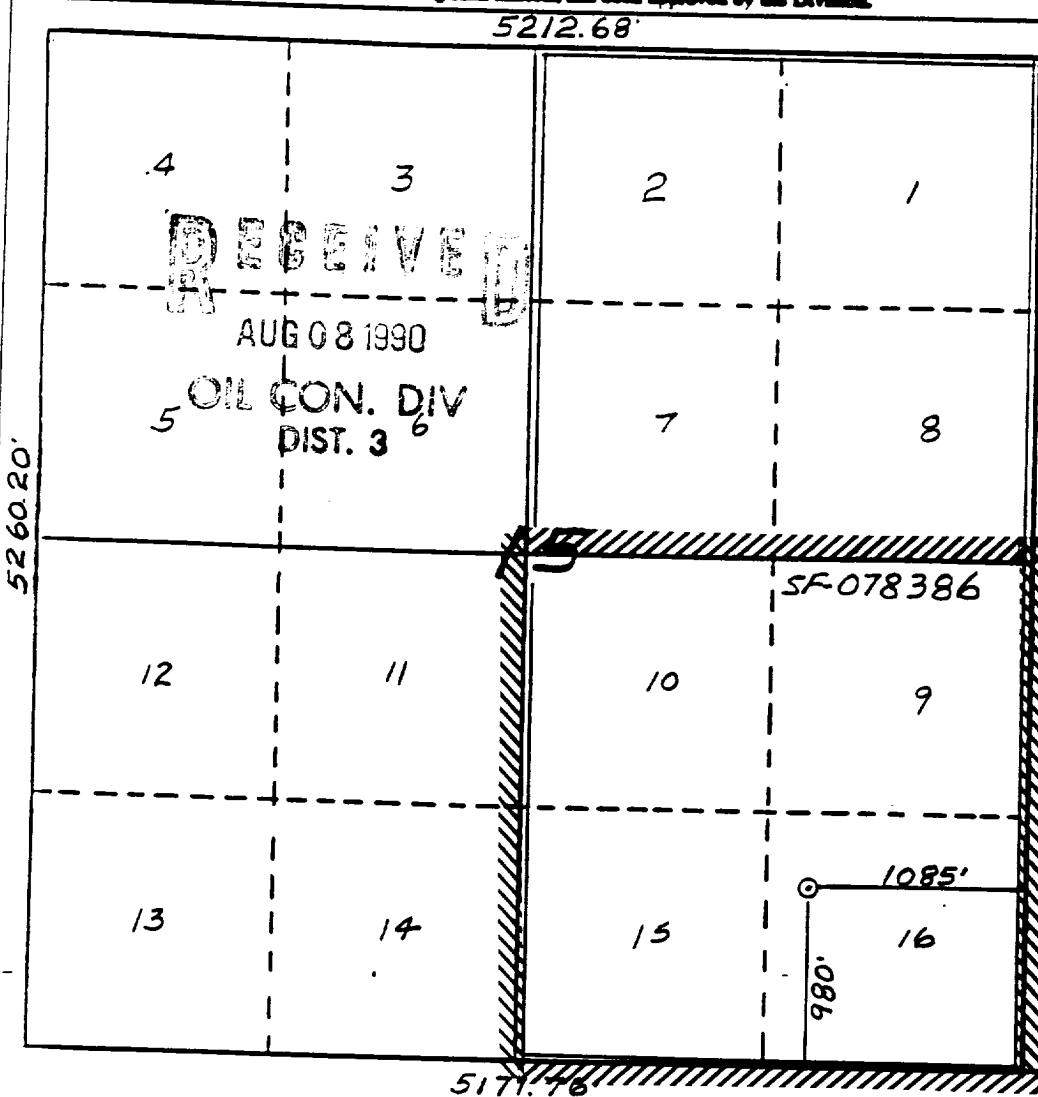
1000 Rio Grande Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Meridian Oil Inc.			Lease San Juan 32-9 Unit (SF-078386)		Well No. 110
Unit Letter P	Section 15	Township 31 North	Range 9 West	County San Juan	
Actual Footage Location of Well: 980 feet from the South line and 1085 feet from the East line					
Ground level Elev. 6542'		Producing Formation Pictured Cliffs		Pool Unders	Dedicated Acreage 157.64 Acres

- Outline the acreage dedicated to the subject well by colored pencil or inkline marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by commutation, unitization, force-pooling, etc.?
☒ Yes ☐ No If answer is "yes" type of consolidation unitization
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 commutation, 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.

Signature Peggy Bradfield

Printed Name Peggy Bradfield

Position Regulatory Affairs

Company Meridian Oil Inc.

Date 7-20-90

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.

Date Surveyed 4-19-90

Signature NEAL E. EDWARDS

Professional Seal 6857

Professional Seal 6857

Professional Seal 6857

Professional Seal 6857

Professional Seal 6857

Professional Seal 6857

Professional Seal 6857

Professional Seal 6857

Professional Seal 6857

Well Name: 110 SAN JUAN 32-9 UNIT
 Sec. 15 T31N R09W
 UNDESIGNATED PICTURED CLIFFS

980'FSL 1085'FEL
 SAN JUAN NEW MEXICO
 Elevation 6542'GL

Formation tops: Surface- SAN JOSE

Ojo Alamo- 1949

Kirtland- 2121

Fruitland- 3004

Fruitland Coal Base- 3379

Total Depth- 3670

Logging Program: Mud logs from 3004 to total depth.

Mud Program:	Interval	Type	Weight	Visc.	Fl. Loss
	0 - 200	Spud	8.4 - 8.9	40-50	no control
	200 - 3670	Non-dispersed	8.4 - 9.5	30-60	no control

Casing Program:	Hole Size	Depth Interval	Csg. Size	Weight	Grade
	12 1/4"	0 - 200	8 5/8"	24.0#	K-40
	7 7/8"	0 - 3670	4 1/2"	10.0#	K-55
Tubing Program:		0 - 3670	2 3/8"	4.7#	J-55

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

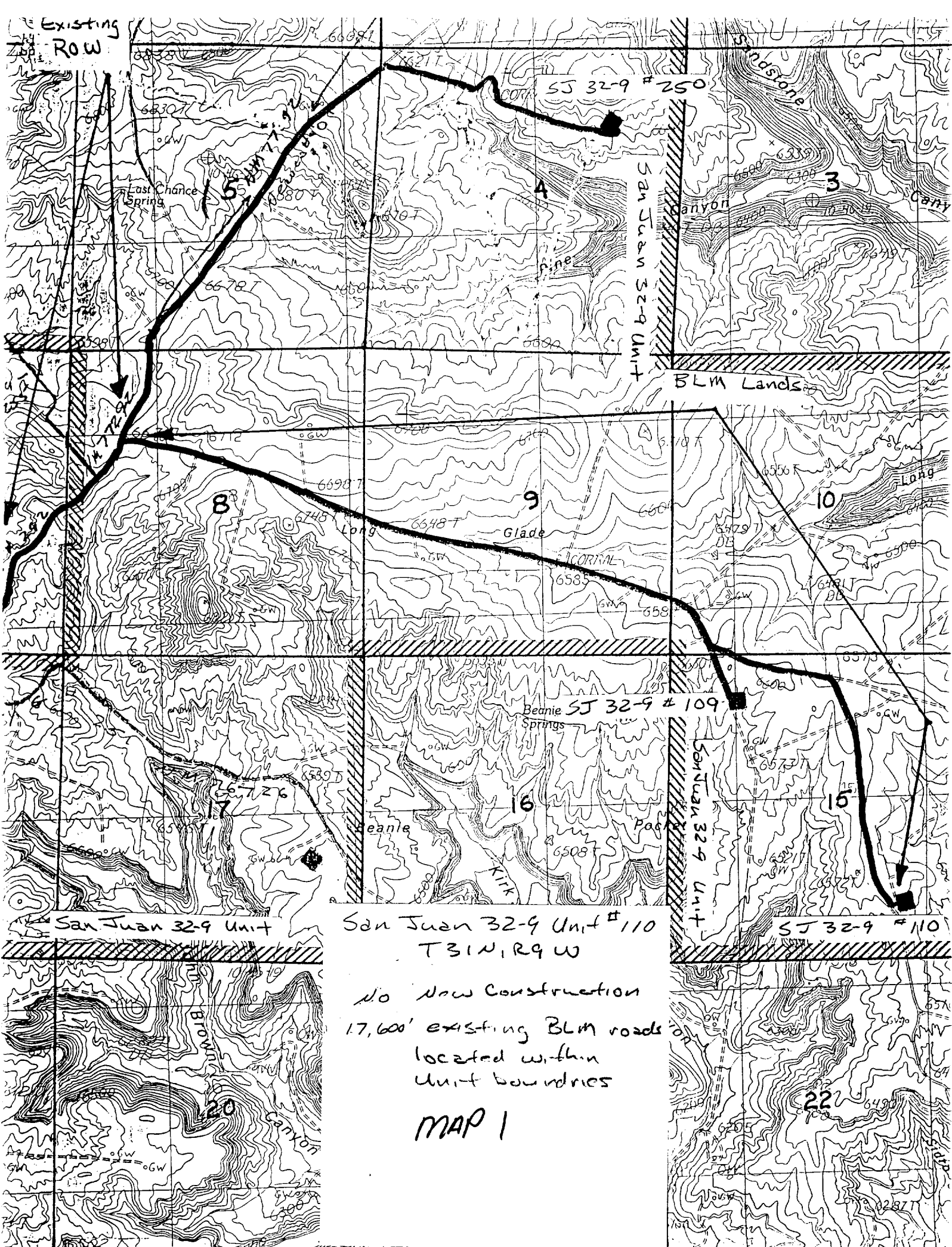
4 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2121'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 8 5/8" x 4 1/2" x 2 3/8" x 11" 3000 psi xmas tree assembl

Cementing:

8 5/8" surface casing - cement with 211 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (248 cu ft. of slurry, 200% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

4 1/2" production casing - lead with 809 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. 1679 cu ft. of slurry, 100% 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.



San Juan 32-9 Unit #110
T31N, R9W

No New Construction
17,600' existing BLM roads
located within
Unit boundaries

MAP 1