

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

30-239-249-48
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL	5. LEASE NUMBER NM-012709
1b. TYPE OF WELL GAS	6. IF INDIAN, ALL. OR TRIBE NAME
2. OPERATOR MERIDIAN OIL INC.	7. UNIT AGREEMENT NAME SAN JUAN 30-6 UNIT
3. ADDRESS & PHONE NO. OF OPERATOR P O BOX 4289 FARMINGTON, NM 87499	8. FARM OR LEASE NAME SAN JUAN 30-6 UNIT
4. LOCATION OF WELL 1665' FSL 1150' FWL	9. WELL NO. 499
14. DISTANCE IN MILES FROM NEAREST TOWN 2 MILES S NAVAJO DAM	10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL
15. DISTANCE FROM PROPOSED LOCATION 1150' TO NEAREST PROPERTY OR LEASE LINE.	11. SEC. T. R. M OR BLK. K SEC. 30 T30N R07W NMPM
16. ACRES IN LEASE 17. ACRES ASSIGNED TO WELL 1420.68 w/ 209.36	12. COUNTY RIO ARRIBA
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. 200' COMPL., OR APPLIED FOR ON THIS LEASE.	13. STATE NM
19. PROPOSED DEPTH 3081'	20. ROTARY OR CABLE TOOLS ROTARY
21. ELEVATIONS (DF, FT, GR, ETC.) 6251' GL	22. APPROX. DATE WORK WILL START
23. PROPOSED CASING AND CEMENTING PROGRAM	

*SEE OPERATIONS PLAN

24. AUTHORIZED BY: [Signature]
REG. DRILLING ENGR.

7/18/90
DATE

PERMIT

RECEIVED

APPROVAL DATE

APPROVED OCT 1 1990

TITLE

DATE

OIL CON. DIV.

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

Held on 15K NSL 1051 @ NMOC

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 2083

Santa Fe, New Mexico 87504-2088

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

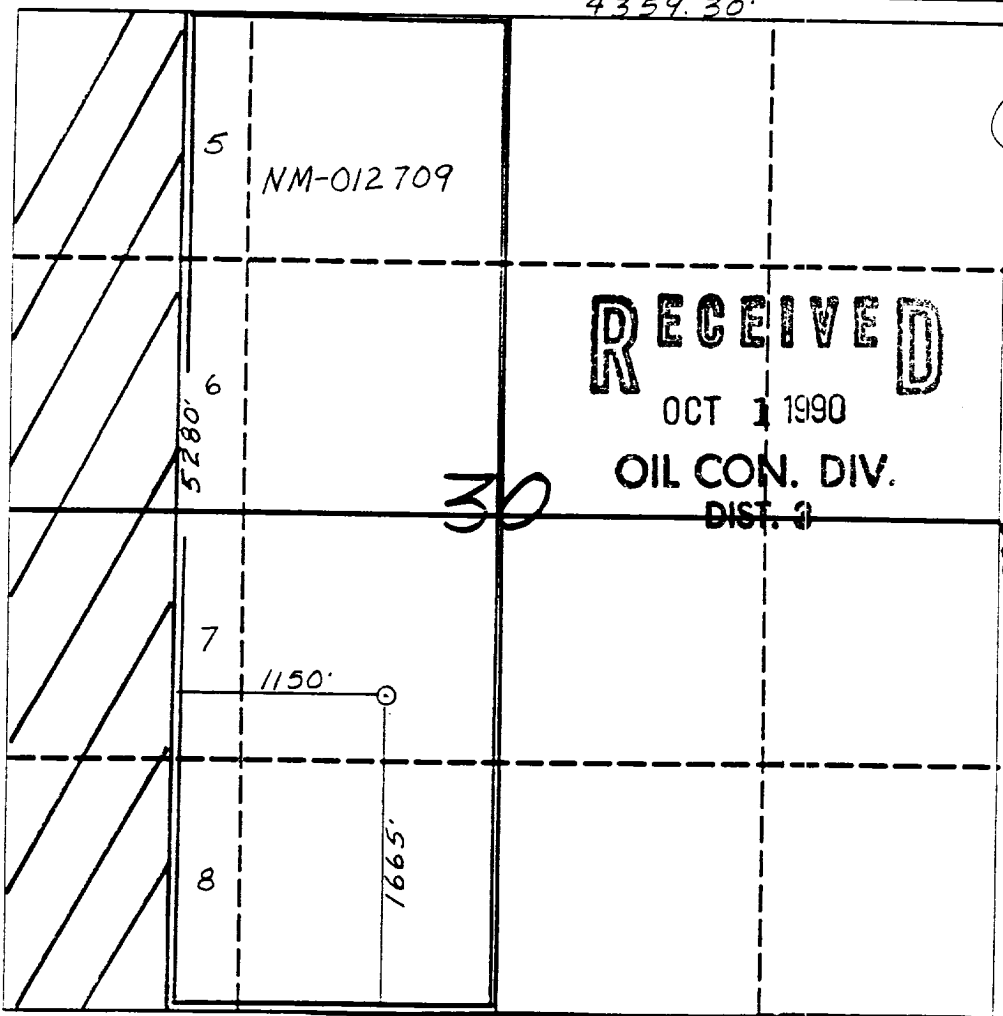
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Meridian Oil Inc.		Lease (NM-012709)		Well No. 499
Unit Letter -	Section 30	Township 30 North	Range 7 West	County Rio Arriba
Actual Footage Location of Well: 1665 feet from the South line and 1150 feet from the West line				
Ground level Elev. 6251'	Producing Formation Fruitland Coal		Pool Basin	Dedicated Acreage: 209.36 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hectare 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 communitization, 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 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
7-18-90

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. 5-16-90

Date Surveyed

Neale C. Edwards
Signature
Professional Surveyor

NEW MEXICO
6857
REGISTERED LAND SURVEYOR
Neale C. Edwards

Well Name: 499 SAN JUAN 30-6 UNIT 1665' FSL 1150' FWL
 Sec. 30 T30N R07W RIO ARriba NEW MEXICO
 BASIN FRUITLAND COAL Elevation 6251' GL

Formation tops: Surface- San Jose
 Ojo Alamo- 2025
 Kirtland- 2210
 Fruitland- 2820
 Fruitland Coal Top- 2958 Intermediate TD- 2938
 Fruitland Coal Base- 3079 Total Depth- 3081
 Pictured Cliffs- 3090

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 contro
	200 - 2938	Non-dispersed	8.4 - 9.1	30-60	no contro
	2938 - 3081	Formation Water	8.4		no contro

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 - 2938	7"	20.0#	K-55
	6 1/4"	2888 - 3081	5 1/2"	15.5#	K-55
Tubing Program:		0 - 3081	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 @ 2210'. 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.

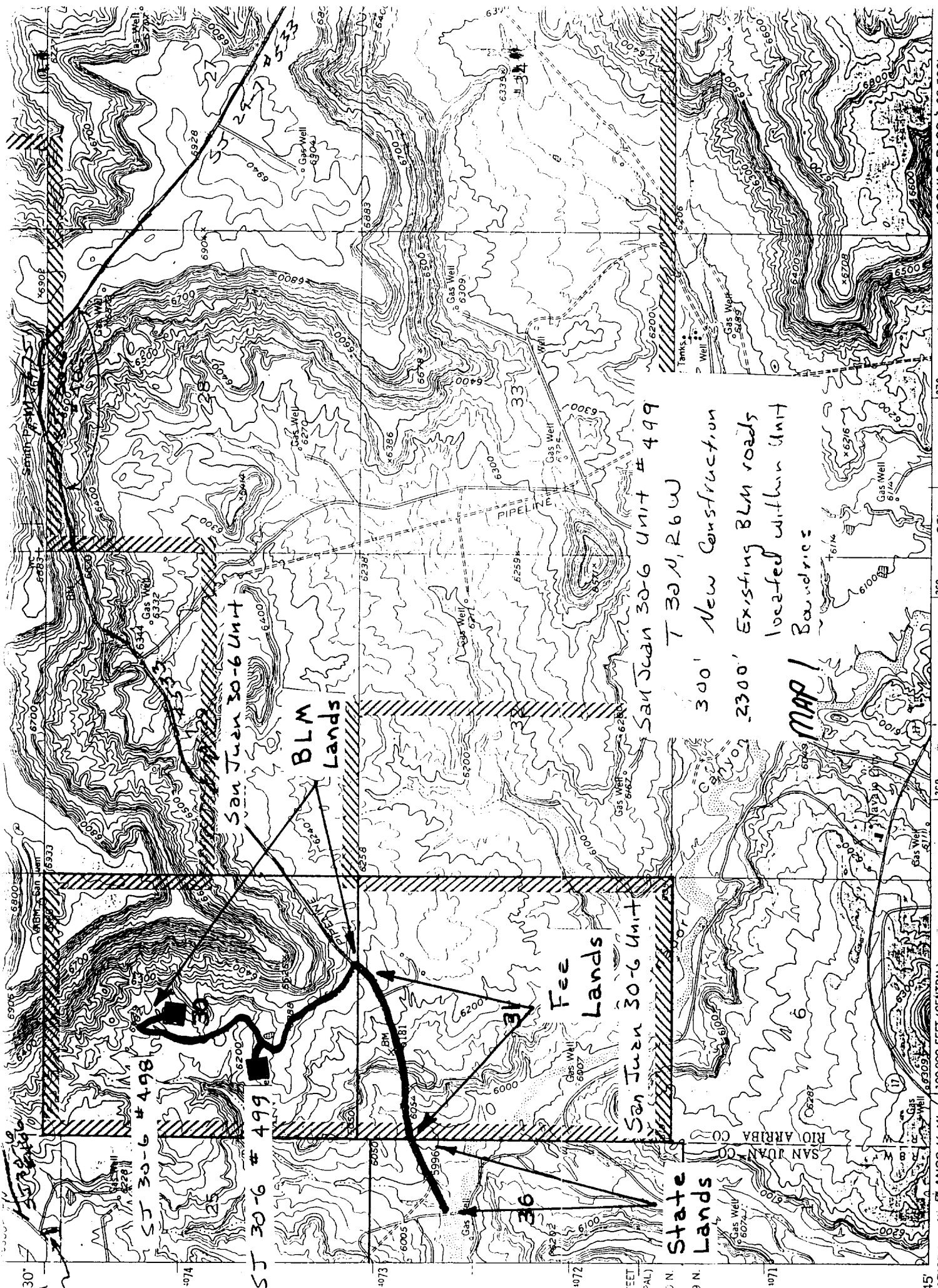
Wellhead Equipment: 9 5/8" x 7" x 2 7/8" x 11" 3000 psi xmas tree assembly.

Cementing:

9 5/8" surface casing - cement with 160 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (189 cu ft. of slurry, 200% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

7" intermediate casing - lead with 424 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. 938 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.



ST 30-6 # 498

ST 30-6 # 499

BLM
Lands

Fee
Lands

San Juan 30-6 Unit

State
Lands

San Juan 30-6 Unit # 499

T 30N, R 6W

300' New Construction

Existing BLM roads

located within Unit

MAP 1

Boundaries

107°37'30" BLANCO 14 MI. / 100,000 FEET (CENTRAL)

(GOULD PASS 7:62 5000 4457 11)

Map edited and published by the Geological Survey