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JUL 26 1993

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OIL CON. DIV
DIST. 2

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

30-039-25287

1a. Type of Work DRILL	5. Lease Number SF-079519
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator MERIDIAN OIL 14538	7. Unit Agreement Name San Juan 28-5 Unit 7460
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name San Juan 28-5 Unit 9. Well Number 228
4. Location of Well 715' FNL, 755' FEL Latitude 36° 38' 24", Longitude 107° 16' 55"	10. Field, Pool, Wildcat Basin Fruitland Coal 71629 So. Blanco Pic. Cliffs 66725 11. Sec., Twn, Rge, Mer. A Sec 24, T-28-N, R-5-W NMPM
14. Distance in Miles from Nearest Town 5 miles to Gobernador, NM	12. County Rio Arriba 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 715'	17. Acres Assigned to Well 343.91 - 142 183.91 NE/4 Unit A
16. Acres in Lease 171.890 This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.	18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this lease 80'
19. Proposed Depth 4600'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 7414' GR	22. Approx. Date Work will Start 2nd quarter 1993
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>[Signature]</u> Regional Drilling Engineer	6/4/93 Date

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY _____ TITLE _____ DATE _____

APPROVED
AS AMENDED

Archaeological Report to be submitted
Threatened and Endangered Species Report to be submitted
NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

JUL 22 1993
DISTRICT MANAGER

156-3277 (251) (4) NMOCN

Schedule as Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

RECEIVED Form C-182
BLM Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

93 JUN 10 PM 3:19

070 FARMINGTON, NM

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

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

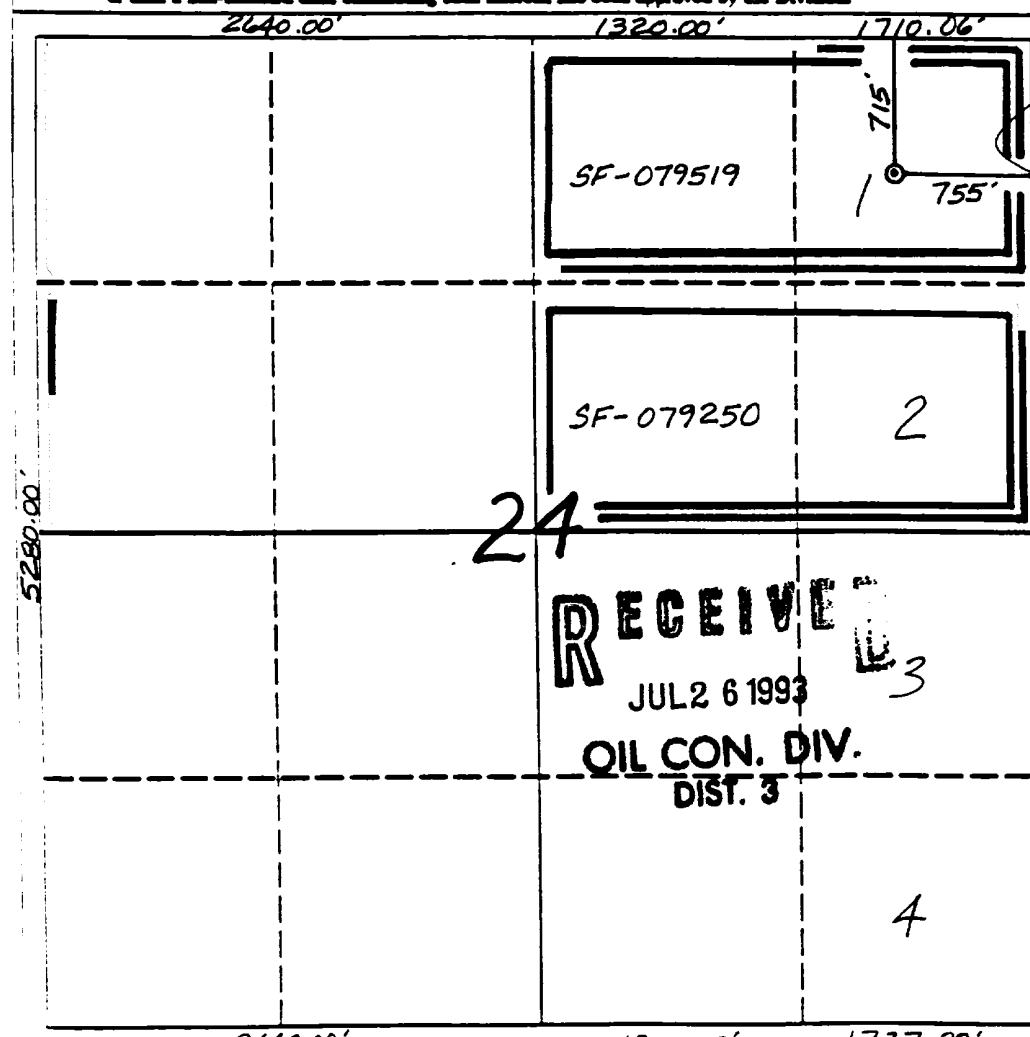
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator	Meridian Oil Inc.	Lease	San Juan 28-5 Unit	Well No.	228
Unit Letter	A	Section	24	Township	28 North
				Range	5 West
				County	Rio Arriba
				NMNM	
Actual Footage Location of Well:					
715'	feet from the	North	line and	755'	feet from the
					East
Ground level Elev.	Producing Formation	Pool	Dedicated Acreage		
7414'	Fruitland Coal/Pic. Cliffs	Basin/Sa. Blanco	343.91/183.91 Acres		

- Outline the acreage dedicated to the subject well by colored pencil or ink 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 their 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 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 Bradfield
Signature

Peggy Bradfield

Printed Name

Regulatory Affairs

Position

Meridian Oil Inc.

Company

6-1-93

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.

4-27-93

Date Surveyed

C. Edwards
Name

Professional Surveyor

3357

Signature

Professional Surveyor

Signature

Professional Surveyor

Signature

Professional Surveyor

6857

OPERATIONS PLAN

Well Name: San Juan 28-5 Unit #228
Location: 715' FNL, 755' FEL Section 24, T-28-N, R-05-W
 Rio Arriba County, New Mexico
 Latitude 36° 38' 24", Longitude 107° 16' 55"
Formation: Basin Fruitland Coal/So. Blanco Pictured Cliffs
Elevation: 7414'GL

Formation:	Top	Bottom	Contents
Surface	San Jose	3760'	
Ojo Alamo	3760'	3890'	aquifer
Kirtland	3890'	4100'	
Fruitland	4100'	4368'	
Fruitland Coal Top	4205'	4365'	gas
Pictured Cliffs	4368'	4600'	gas
Total Depth	4600'		

Logging Program: Mud logs from 3750' to Total Depth.
 IND, Dens, Neut, GR, ML to TD.

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 200'	Spud	8.4-8.9	40-50	no control
200-4600'	Non-dispersed	8.4-9.5	30-60	no control

Casing Program:

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
12 1/4"	0 - 200'	8 5/8"	24.0#	K-40
7 7/8"	0 - 4600'	4 1/2"	10.5#	K-55

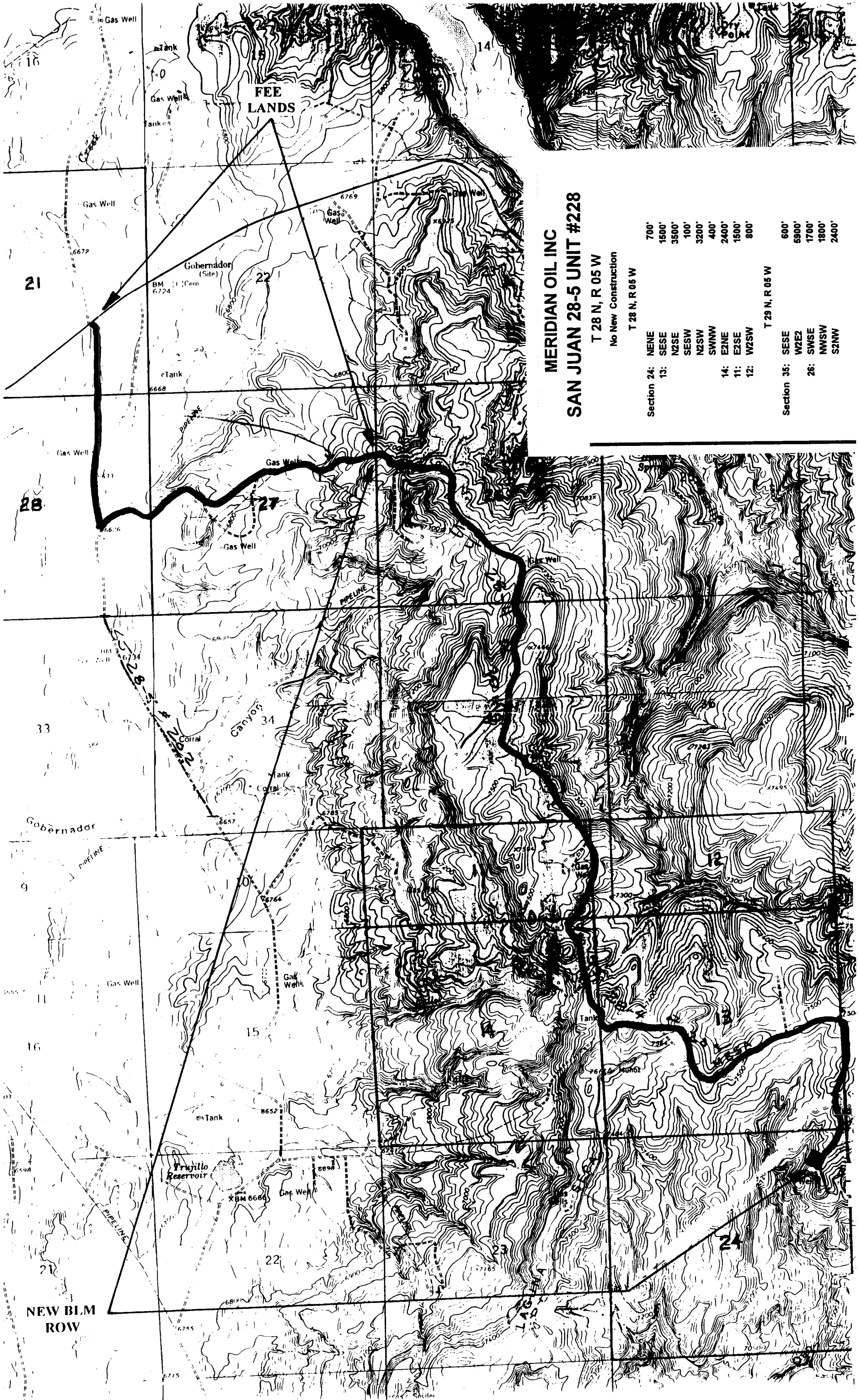
Tubing Program:

0 - 4600'	2 3/8"	4.7#	J-55
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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. Four centralizers run every 3rd joint to the base of the Ojo Alamo @ 3890'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 3890'. 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 assembly.



MERIDIAN OIL INC
SAN JUAN 28-5 UNIT #228

T 28 N, R 05 W		T 28 N, R 05 W		T 29 N, R 05 W	
No New Construction					
Section 24:	NENE	700'			
13:	SESE	1500'			
	N2SE	3500'			
	SESW	100'			
	N2SW	3200'			
	SWNW	400'			
14:	E2NE	2400'			
11:	E2SE	1500'			
12:	W2SW	800'			
Section 35:	SESE	600'			
	W2E2	5900'			
26:	SWSE	1700'			
	NWSW	1800'			
	S2NW	2400'			