

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 Jic Contract 105
1b. Type of Well GAS	6. If Indian, All. or Tribe Jicarilla Apache
2. Operator SOUTHLAND ROYALTY 21281	7. Unit Agreement Name OIL CON. DIV. DIST. 3
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Jicarilla 103 17347 9. Well Number 18
4. Location of Well 900' FSL, 1995' FEL Latitude 36° 28' 03", Longitude 107° 16' 20"	10. Field, Pool, Wildcat Basin Ft Coal 71629- 11. Sec., Twn, Rge, Mer. 0 Sec 20, T-26-N, R-4-W NMPM
14. Distance in Miles from Nearest Town 15 miles to Counselors	12. County Rio Arriba 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 900' FSL	
16. Acres in Lease	17. Acres Assigned to Well 320 E/2
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 270'	
19. Proposed Depth 3522	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6790' GR	22. Approx. Date Work will Start 3rd quarter 1994
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by:  Regional Drilling Engineer	6/1/94 Date

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY Joe Incardine TITLE Chief, Lands and Mineral Resources DATE AUG 7 1995

Archaeological Report submitted by Jicarilla Apache Archaeological Services Report CR-94-407 1-6-94
Threatened and Endangered Species Report to be submitted
NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

Held C-104 For New Plan & NSL (P)

Schedule to Application
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. Denver CO, Arama, NM 88210

DISTRICT III

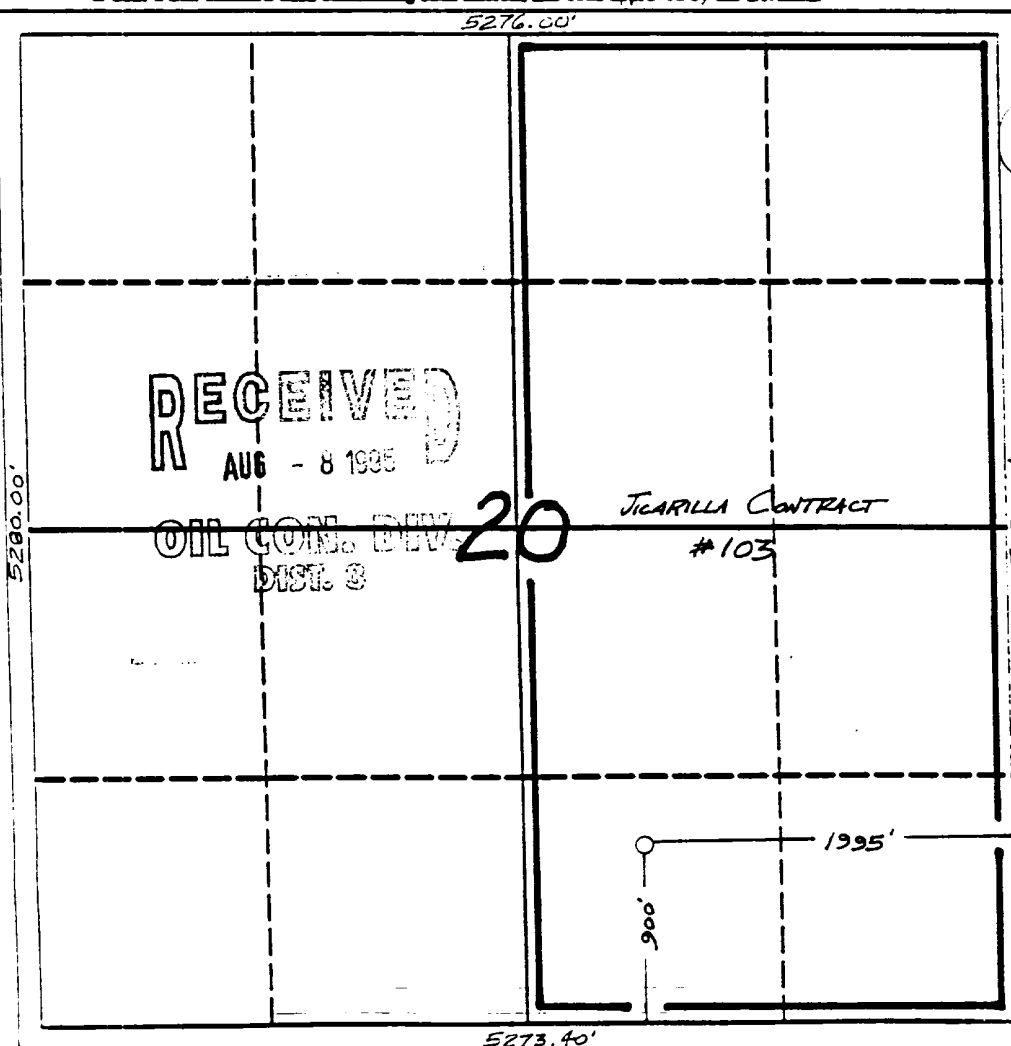
1000 Rio Grande Rd., Alamogordo, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Southland Royalty Company		Lease 21281 Jicarilla 103		Well No. 18
Unit Letter 0	Section 20	Township 26 North	Range 4 West	County NM/PM Rio Arriba
Actual Footage Location of Well: 900 feet from the South line and 1995 feet from the East line.				
Ground level Elev. 6790	Producing Formation Fruitland Coal	Pool 716.29 Basin	Dedicated Acreage: 320 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 commutation, unitization, force-pooling, etc.?
☐ Yes ☐ No If answer is "yes" type of consolidation _____
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary).
No allowance 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
Regulatory Representative

Position
Meridian Oil Inc.

Company
5-25.94

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.

1-4-94

Date Surveyed
C. EDWARDS

Need a Affidavit

Signature
Professional Surveyor

6857

Professional Surveyor

6857

6857

6857

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OPERATIONS PLAN

Well Name: Jicarilla 103 #18
Location: 900'FSL, 1995'FEL Section 20, T-26-N, R-4-W
 Rio Arriba County, New Mexico
 Latitude 36° 28' 03", Longitude 107° 16' 20"
Formation: Basin Fruitland Coal
Elevation: 6790'GL

Formation:	Top	Bottom	Contents
Surface	San Jose	2730'	
Ojo Alamo	2730'	3070'	aquifer
Kirtland	3070'	3222'	
Fruitland	3222'	3380'	gas
Fruitland Coal	3305'	3377'	gas
Pictured Cliffs	3380'		
Total Depth	3522'		

Logging Program: Mud logs from 3000' to Total Depth.
 Dens/Neut/GL; Dens/GR; Micro/GR: 2900-TD
 Ind/GR/SP: surface-TD

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 200'	Spud	8.4-8.9	40-50	no control
200-3522'	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 - 3522'	4 1/2"	10.5#	K-55

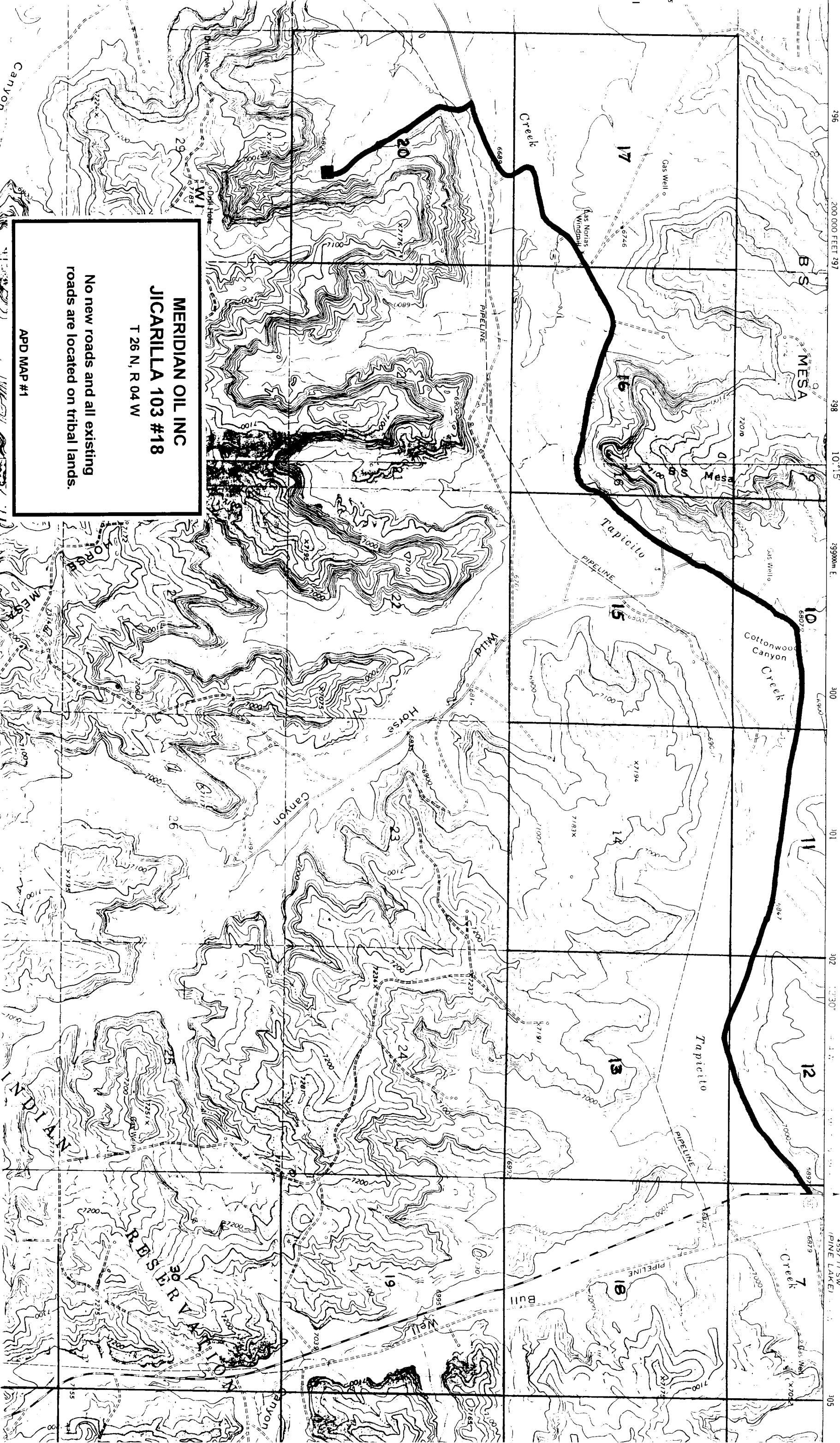
Tubing Program:

0 - 3522'	2 3/8"	4.7#	J-55
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Float Equipment: 3 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 centralizers run every 3rd joint to the base of the Ojo Alamo @ 3070'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 3070'. 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" 2000 psi xmas tree assembly.



MERIDIAN OIL INC
JICARILLA 103 #18
T 26 N, R 04 W

No new roads and all existing
roads are located on tribal lands.

APD MAP #1