

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED AUG - 8 1994	5. Lease Number Jicarilla Cont 447 ✓
1b. Type of Well GAS		6. If Indian, All. or Tribe Jicarilla Apache
2. Operator SOUTHLAND ROYALTY 21281	OIL CON. DIV. DIST. 3	7. Unit Agreement Name
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name 10528 Jicarilla 447 9. Well Number 1A ✓
4. Location of Well 630' FSL, 1420' FEL Latitude 36° 33' 15", Longitude 107° 10' 55"		10. Field, Pool, Wildcat TAPATIO 859.20 Chaco Mesa-PCI EXT. 72319 Blanco Mesa Verde 11. Sec., Twn, Rge, Mer. 0 Sec 19, T-27-N, R-3-W NMMP
14. Distance in Miles from Nearest Town 40 miles from Counselors	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 630'		
16. Acres in Lease	17. Acres Assigned to Well 160 SE/4; 301.76 S/2	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 2500'		
19. Proposed Depth 6650	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 7210' 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 _____

Acting AREA MANAGER

APPROVED BY Yolanda Vega

TITLER RIO PUERCO RESOURCE AREA

DATE AUG 5 1994

Archaeological Report to be submitted by Jicarilla Apache Archaeological Services

Threatened and Endangered Species Report to be submitted

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

Handwritten note: Handwritten signature

NMOC

Schedule to Accompany
District Office
State License - 4 copies
Fee License - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-182
Revised 1-1-88

OIL CONSERVATION DIVISION

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

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

DISTRICT II
P.O. Drawer 100, Arama, NM 88210

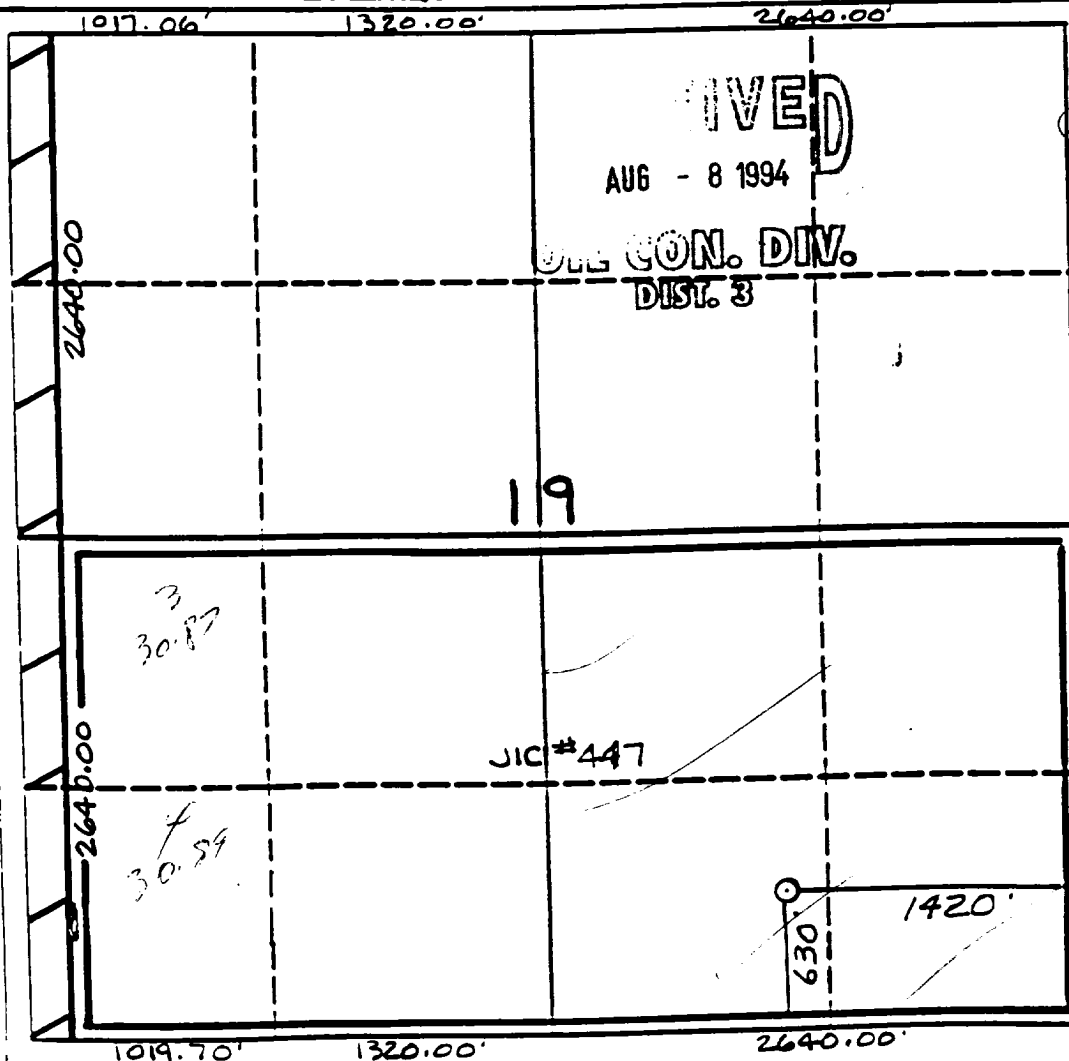
DISTRICT III
1000 Rio Arriba Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Southland Royalty Company		Well No. Jicarilla 447 10528		1A	
Unit Letter O	Section 19	Township 27 North	Range 3 West	County Rio Arriba	
Actual Footage Location of Well: 630 feet from the South line and 1420 feet from the East line.					
Common level Elev. 7210'		Pitheading Formation Pic.Cliffs/Mesa Verde		Dedicated Acreage 160/301.76 Acres	

- Outline the acreage dedicated to the subject well by crosses points or measure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (lease 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 extinguished by commutation, unitization, force-pooling, etc.?
☐ Yes ☐ No If answer is "yes" type of extinguishment _____
If answer is "no" list the owners and their descriptions which have actually been extinguished. (Use reverse side of this form if necessary).
No allowance will be assigned to the well until all interests have been extinguished (by commutation, unitization, force-pooling, or otherwise) or until a acre-consent unit, encompassing such interest, has been approved by the Division.



OPERATOR CERTIFICATE

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

Signature
Peggy Bradfield

Printed Name
Peggy Bradfield

Regulatory Representative
Southland Royalty

Company
Southland Royalty

County
Rio Arriba

Date
5-25-94

Signature
Peggy Bradfield

Printed Name
Peggy Bradfield

Regulatory Representative
Southland Royalty

Company
Southland Royalty

County
Rio Arriba

Date
5-25-94

SURVEYOR CERTIFICATE

I hereby certify that the well location on this plat was plotted from field notes and/or survey made by me or my representative, and that the same is correct to the best of my knowledge and belief. 10-14-93

Date
10-14-93

Signature
C. Edwards

Printed Name
C. Edwards

Professional Surveyor
3857

Signature
C. Edwards

Printed Name
C. Edwards

Professional Surveyor
3857

Signature
C. Edwards

Printed Name
C. Edwards

Professional Surveyor
3857

Signature
C. Edwards

Printed Name
C. Edwards

Professional Surveyor
3857

OPERATIONS PLAN

Well Name: Jicarilla 447 #1A
Location: 630'FSL, 1420'FEL Section 19, T-27-N, R-3-W
 Rio Arriba County, New Mexico
 Latitude: 36° 33' 15", Longitude 107° 10' 55"
Formation: Gavilan Pictured Cliffs/Blanco Mesa Verde
Elevation: 7210'GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	3455'	
Ojo Alamo	3455'	3685'	aquifer
Kirtland	3685'	3820'	
Fruitland	3820'	4005'	gas
Pictured Cliffs	4005'	4010'	gas
Lewis	4010'	4185'	
Intermediate TD	4335'		
Chacra	4185'	5725'	
Upper Cliff House	5725'	5850'	gas
Menefee	5850'	6130'	gas
Point Lookout	6130'		gas
Total Depth	6650'		

Logging Program:

Openhole Wireline Logging -
 Surface to Intermediate : DIL-GR, FDC-CNL & ML
 Intermediate TD to Total Depth : DIL-GR, FDC-CNL & Temp
 Mud Logs/Coring/DST -
 Mud logs - 3375' to Intermediate Depth
 Coring - none
 DST - none

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 200'	Spud	8.4-8.9	40-50	no control
200-4335'	LSND	8.4-9.1	30-60	no control
4335-6650'	Gas/Mist	n/a	n/a	n/a

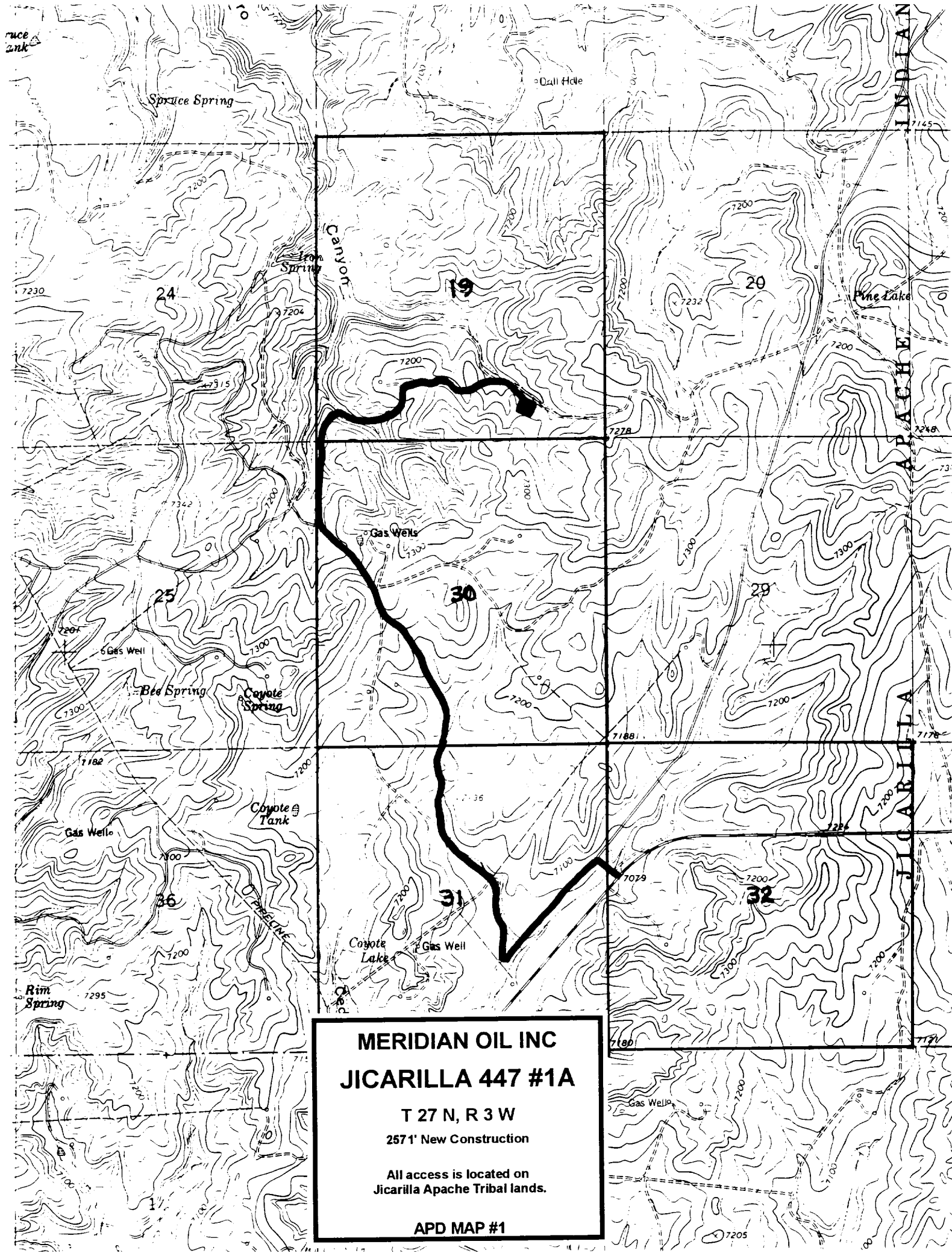
Pit levels will be visually monitored to detect gain or loss of fluid control.

Casing Program:

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 4335'	7"	20.0#	K-55
6 1/4"	4185' - 6650'	4 1/2"	10.5#	K-55

Tubing Program:

0' - 6650' 2 3/8" 4.7# J-55 EUE



MERIDIAN OIL INC
JICARILLA 447 #1A
T 27 N, R 3 W
2571' New Construction

All access is located on
Jicarilla Apache Tribal lands.

APD MAP #1