

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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30-045-28969

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED JUN 18 1993	5. Lease Number NM-02988
1b. Type of Well GAS		6. If Indian, All. or Tribe Navajo
2. Operator SOUTHLAND ROYALTY COMPANY <i>21281</i>	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 Whitley A - <i>10609</i>
4. Location of Well 2010'FSL, 1090'FWL Latitude 36° 34' 25", Longitude 108° 01' 54"		9. Well Number 100
14. Distance in Miles from Nearest Town 10 miles to Bloomfield, NM		10. Field, Pool, Wildcat <i>7/6/29</i> Basin Fruitland Coal ✓ <i>19680</i> W. Kutz Pic.Cliffs ✓
15. Distance from Proposed Location to Nearest Property or Lease Line 1090'		11. Sec., Twn, Rge, Mer. Sec 17, T27N, R11W NMPM
16. Acres in Lease <i>320</i>		12. County San Juan
17. Acres Assigned to Well <i>320/160 W/2 SW/4</i>		13. State NM
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1200'		17. Acres Assigned to Well 320/160 W/2 SW/4
19. Proposed Depth 2100'		20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6168'GR ✓		22. Approx. Date Work will Start 2nd quarter 1993
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <i>[Signature]</i> Regional Drilling Engineer		Date <i>2-19-93</i>

PERMITS SPECIALLY AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"SPECIAL CONDITIONS"

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

Archaeological Report previously done on NAPI Project
Threatened and Endangered Species Report submitted

3-10-94 For N/SK
(5)

APPROVED
AS AMENDED
JUN 16 1993
[Signature]
DISTRICT MANAGER

Schedule to Appraisement
 District Office
 State Lease - 4 copies
 Fee Lease - 3 copies

State of New Mexico
 Energy, Minerals and Natural Resources Department

Form C-102
 Revised 1-1-90
 CLM

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

RECEIVED
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 OTO FARMINGTON, NM

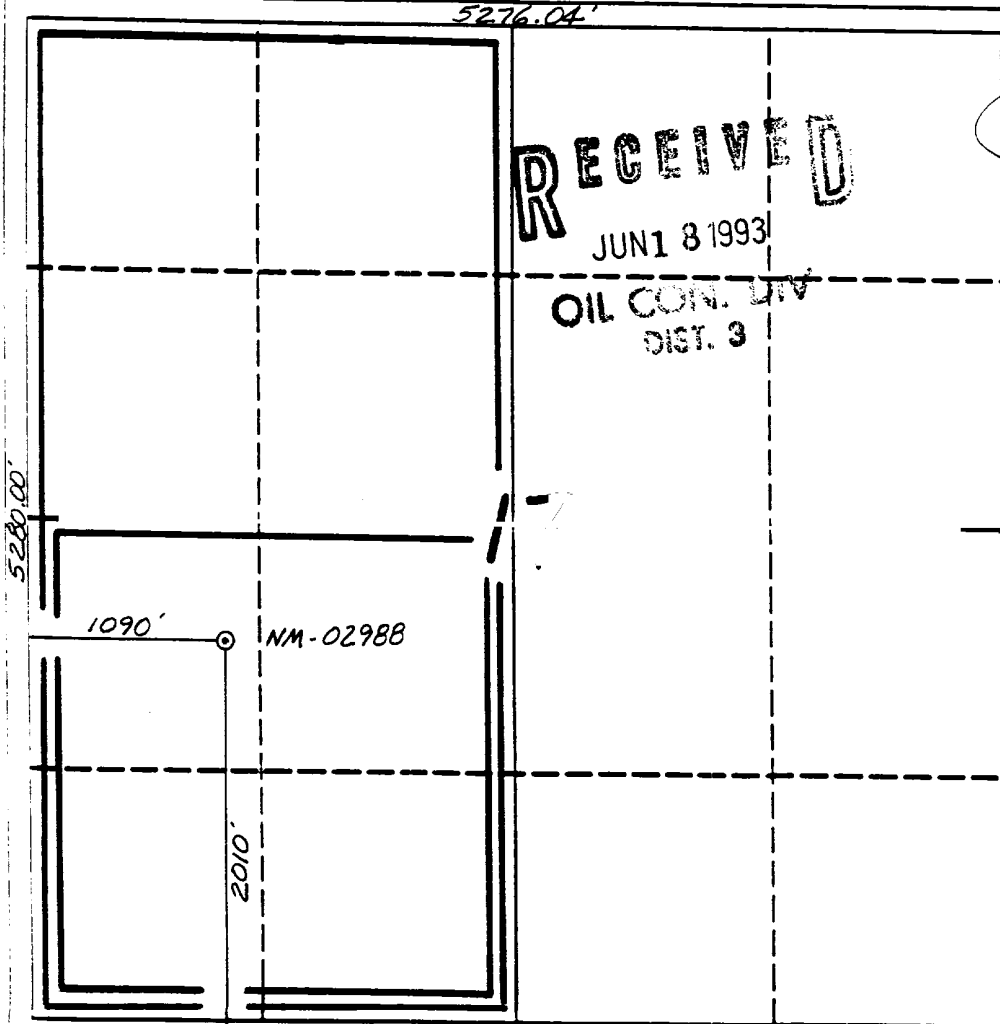
DISTRICT I
 P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
 P.O. Drawer DD, Artesa, 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 Co.		Lease Whitley A		Well No. 100
Unit Lease L	Section 17	Township 27 North	Range 11 West	County San Juan
Actual Footage Location of Well: 2010 feet from the South line and 1090 feet from the West line				
Ground level Elev. 6168'	Producing Formation Fruitland Coal/Pic. Cliffs	Pool Basin/West Kutz	Dedicated Acreage: 320/160 Acres	
1. Outline the acreage dedicated to the subject well by colored pencil or ink on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. 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.? <input type="checkbox"/> Yes <input type="checkbox"/> 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 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 interests, 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

Southland Royalty
 Company

2-15-93
 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.

1-12-93
 Date Surveyed

C. EDWARDS
 Signature

Professional Surveyor
 8857

Commission No. _____

OPERATIONS PLAN

Well Name: Whitley A #100
Location: 2010'FSL, 1090'FWL Section 17, T-27-N, R-11-W
 San Juan County, New Mexico
 Latitude 36° 34' 25", Longitude 108° 01' 54"
Formation: Basin Fruitland Coal/West Kutz Pictured Cliffs
Elevation: 6168'GL

Formation Tops:	Top	Bottom	Contents
Surface	Nacimiento	726'	
Ojo Alamo	726'	816'	aquifer
Kirtland	816'	1621'	
Fruitland	1621'	1701'	
Fruitland Coal Top	1701'	1831'	salt water & gas
Pictured Cliffs	1859'	2100'	salt water & gas
Total Depth	2100'		

Logging Program: NGT, HR Dens, Mud logs from 1600' to Total Depth.
 DIL surface to Total Depth
 CNL-LDT 650' to Total Depth

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
200-2100'	Non-dispersed	8.4-9.1	30-60	no 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'	8 5/8"	24.0#	K-40
7 7/8"	0' - 2100'	4 1/2"	10.5#	K-55

Tubing Program:

0' - 2100'	2 3/8"	4.7#	J-55
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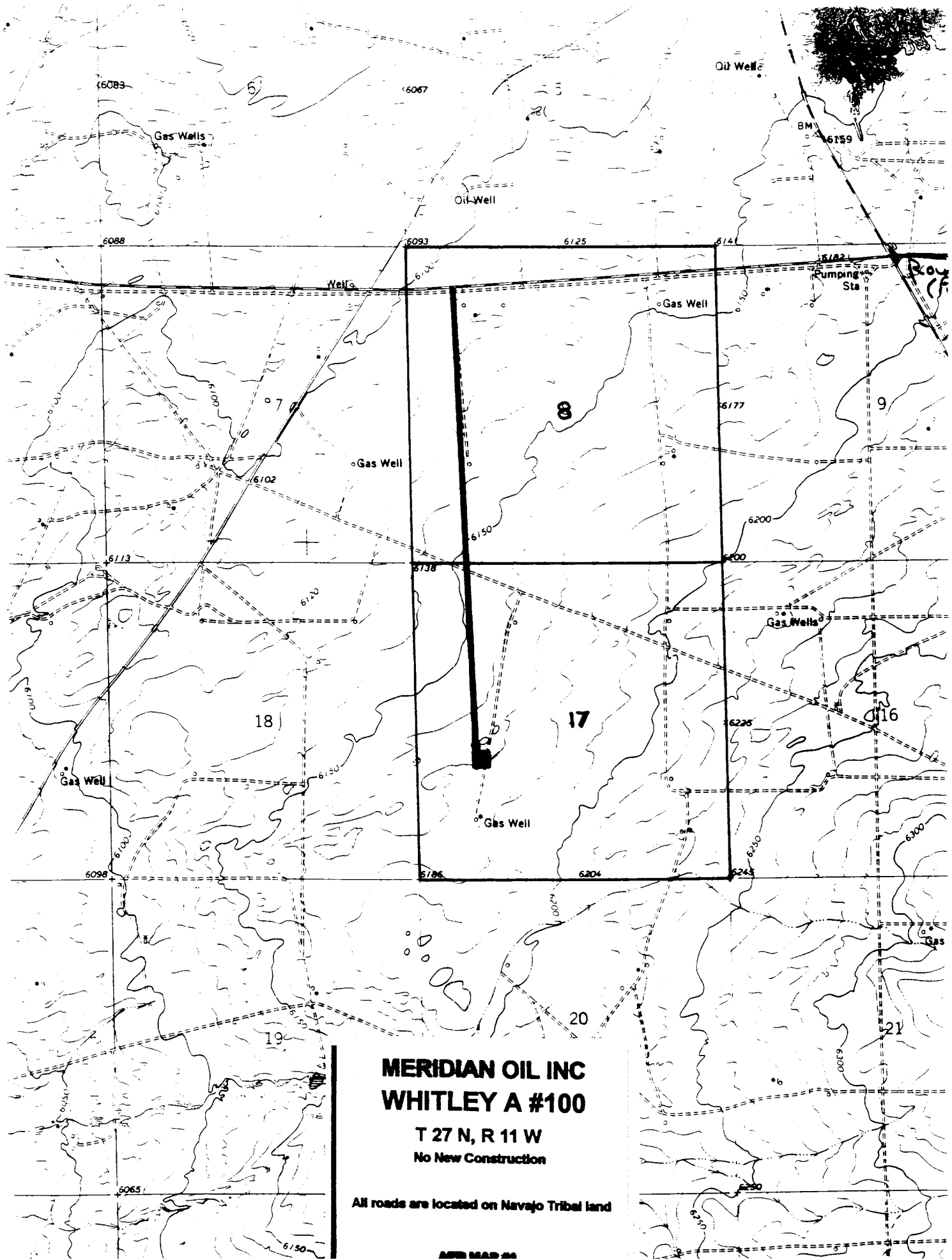
Float Equipment: 8 5/8" surface casing - saw tooth guide shoe.
 Centralizers will be run in accordance with Onshore Order #2.

4 1/2" production casing - float shoe on bottom. Three (3) centralizers run every other joint above shoe. Two (2) turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 816'. 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.

Cementing:

8 5/8" surface casing - cement with 210 sx Class "B" cement with 1/4# flocele/sx and 3 3/8 calcium chloride (250 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test casing to 600 psi/30 minutes.



**MERIDIAN OIL INC
WHITLEY A #100**

**T 27 N, R 11 W
No New Construction**

All roads are located on Navajo Tribal land