


UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

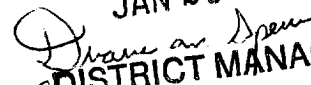
1a. Type of Work DRILL FARMINGTON, NM	5. Lease Number SF-078103 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator MERIDIAN OIL 14538	7. Unit Agreement Name Huerfano Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name 7139 Huerfano Unit 9. Well Number 523 ✓
4. Location of Well 1100' FNL, 1485' FEL Latitude 36° 28.7, Longitude 107° 45.2	10. Field, Pool, Wildcat 71629 Basin Ft Coal ✓ 11. Sec., Twn, Rge, Mer. (NMPM) 13 Sec 23, T-26-N, R-9-W ✓ API# 30-045-29342 ✓
14. Distance in Miles from Nearest Town 6 miles from Huerfano Trading Post	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1100'	17. Acres Assigned to Well 320 E/2 ✓
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 1850'	20. Rotary or Cable Tools Rotary
19. Proposed Depth 2250'	22. Approx. Date Work will Start 1st quarter 1996
21. Elevations (DF, FT, GR, Etc.) 6358' GR	23. Proposed Casing and Cementing Program See Operations Plan attached
24. Authorized by:  Regional Drilling Engineer	DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS" 12/7/95 Date

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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

APPROVED  
AS AMENDED

JAN 25 1996

For   
DISTRICT MANAGER

NMOC

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-102  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1 API Number 30-045-29342		2 Pool Code 71629		3 Pool Name Basin Fruitland Coal		
4 Property Code 7139		5 Property Name Huerfano Unit			6 Well Number 523	
7 OGRID No. 14538		8 Operator Name MERIDIAN OIL INC.			9 Elevation 6358'	

**10 Surface Location**


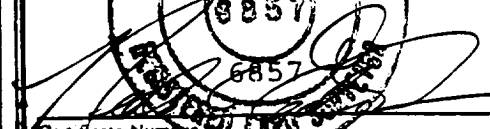
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	23	26 N	9 W		1100	North	1485	East	S.J.

**11 Bottom Hole Location If Different From Surface**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres E/320	13 Joint or Infill	14 Consolidation Code	15 Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<div>16</div> <div>5203.44'</div> <div>1100'</div> <div>1485'</div> <div>5280.00'</div> <div>5216.64'</div> <div>23</div> <div>SF - 078103</div> <div>RECEIVED JAN 30 1996 OIL CON. DIV. DIST. 3</div>	<div>17 OPERATOR CERTIFICATION</div> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <div> Signature Peggy Bradfield Printed Name Regulatory Administrator Title 12-05-95 Date</div>
	<div>18 SURVEYOR CERTIFICATION</div> <p>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 belief.</p> <div>11-15-95 Date of Survey</div> <div> Signature and Seal of Professional Surveyor 8857 Certificate Number</div>

OPERATIONS PLAN

**Well Name:** Huerfano Unit #523  
**Location:** 1100' FNL, 1485' FEL Section 23, T-26-N, R-9-W  
 San Juan County, New Mexico  
 Latitude 36° 28.7, Longitude 107° 45.2  
**Formation:** Basin Fruitland Coal  
**Elevation:** 6358' GL

Formation:	Top	Bottom	Contents
Surface	Nacimiento	1253'	
Ojo Alamo	1253'	1338'	aquifer
Kirtland	1338'	1755'	
Fruitland	1755'	2011'	
Fruitland Coal	1885'	2011'	
Pictured Cliffs	2011'		
Total Depth	2250'		

**Logging Program:** Mud logs: 1700' to TD  
 Dens/Neut/Por; Density/Corr; Micro/GR; Numar MR: 1700-TD  
 Ind/SP/GR: to TD

**Mud Program:**

Interval	Type	Weight	Vis.	Fluid Loss
0- 200'	Spud	8.4-8.9	40-50	no control
200-2250'	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#	H-40
7 7/8"	0 - 2250'	4 1/2"	10.5#	K-55

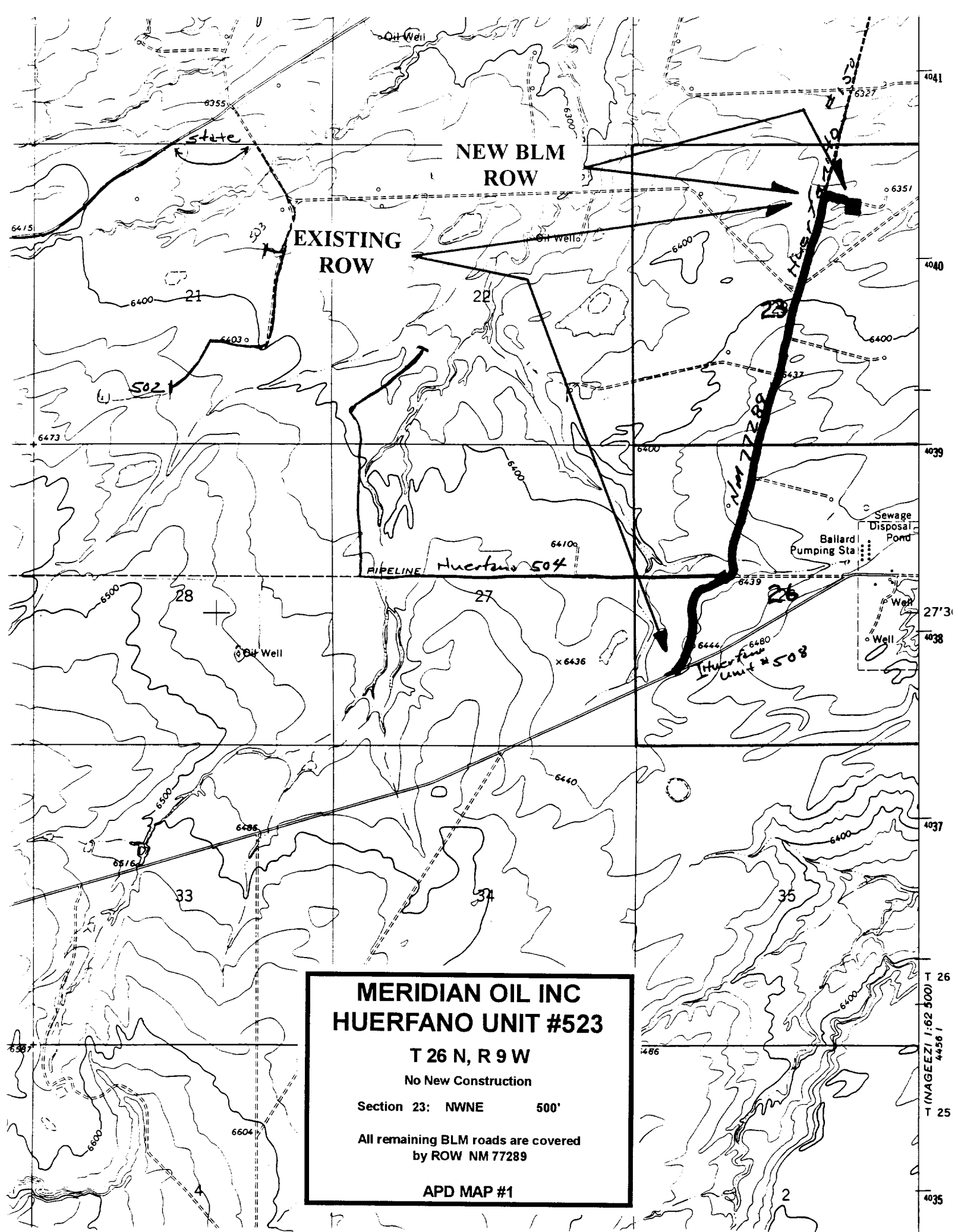
**Tubing Program:**

0 - 2250'	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. Two centralizers run every 3rd joint to the base of the Ojo Alamo @ 1338'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1338'. 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  
HUERTANO UNIT #523**

**T 26 N, R 9 W**

**No New Construction**

**Section 23: NWNE 500'**

**All remaining BLM roads are covered  
by ROW NM 77289**

**APD MAP #1**