

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

30-45-28593
RECEIVED
BLM

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 03

1a. TYPE OF WORK DRILL	5. LEASE NUMBER SF-078422
1b. TYPE OF WELL GAS	6. IF INDIAN, ALL. OR TRIBE NAME
2. OPERATOR MERIDIAN OIL INC. ✓	7. UNIT AGREEMENT NAME HUERFANO UNIT ✓
3. ADDRESS & PHONE NO. OF OPERATOR P O BOX 4289 FARMINGTON, NM 87499	8. FARM OR LEASE NAME HUERFANO UNIT
4. LOCATION OF WELL 815' FNL 1515' FWL ✓	9. WELL NO. 302 ✓
10. FIELD, POOL, OR WILDCAT ANGEL PEAK GALLUP ✓	11. SEC. T. R. M OR BLK. C SEC. 31 T27N R10W NMPM
12. COUNTY SAN JUAN ✓	13. STATE NM
14. DISTANCE IN MILES FROM NEAREST TOWN 12 MILES S OF BLOOMFIELD	15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE. 815'
16. ACRES IN LEASE 656.08	17. ACRES ASSIGNED TO WELL N/327.90 ✓
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. COMPL., OR APPLIED FOR ON THIS LEASE. 850'	19. PROPOSED DEPTH 5920'
20. ROTARY OR CABLE TOOLS ROTARY	21. ELEVATIONS (DF, FT, GR, ETC.) 6165' GL ✓
22. APPROX. DATE WORK WILL START	23. PROPOSED CASING AND CEMENTING PROGRAM

24. AUTHORIZED BY: [Signature] REG. DRILLING ENGR. **RECEIVED** SEP 18 1991 6/17/91 DATE

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

NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160-3 SEP 17 1991
ARCH REPORT SUBMITTED 05/30/91

156-3046 ✓

NMOOD

APPROVED AS AMENDED
[Signature]
AREA MANAGER

Submit to Appropriate
District Office
State Leases - 4 copies
Fee Leases - 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. Drawer DD, Artesa, 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 Huerfano Unit		Well No. 302
Unit Lease C	Section 31	Township 27 North	Range 10 West	County San Juan	
Actual Footage Location of Well: 815 feet from the North line and 1515 feet from the West line					
Ground level Elev. 6165'		Producing Formation Gallup		Pool Angel Peak	Dedicated Acreage: 327.90 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or indelible marks 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.?

☒ Yes ☐ No If answer is "yes" type of consolidation unitization

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 interest, has been approved by the Division.

1449.04		1320.00		2640.00	
1515'		815'		USA SF 078422	
2		31			
3					
4					
1457.28'		1320.00'		2640.00	

OPERATOR CERTIFICATION

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

Signature
Peggy Bradfield

Printed Name
Regulatory Affairs

Position
Meridian Oil Inc.

Company

Date
6-18-91

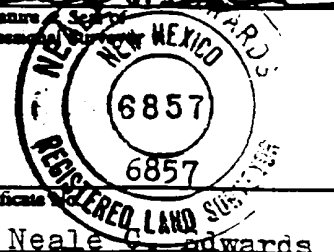
SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes 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.

5-14-91

Date Surveyed

Signature
Professional Surveyor



Certificate
Neale C. Edwards

Well Name: 302 HUERFANO UNIT
 Sec. 31 T27N R10W
 ANGEL PEAK GALLUP

815'FNL 1515'FWL
 SAN JUAN NEW MEXICO
 Elevation 6165'GL

Formation tops: Surface- NACIMIENTO

Ojo Alamo-	763	Lewis-	2108	Mancos-	4453
Kirtland-	873	Mesaverde-	3173	Niobrara-	5648
Fruitland-	1538	Menefee-	3343	Juana Lopez-	5818
Pictured Cliffs-	1758	Pictured Lewis-	4178		

Total Depth- 5920
 Longstring

Logging Program: Mud logs from 5000 to total depth.

Mud Program:	Interval	Type	Weight	Visc.	Fl. Loss
	0 - 200	Spud	8.4 - 8.9	40-50	no control
	200 - 5920	Non-dispersed	8.4 - 9.5	30-60	no control

Casing Program:	Hole Size	Depth Interval	Csg. Size	Weight	Grade
	12 1/4"	0 - 200	8 5/8"	24.0#	K-55
	7 7/8"	0 - 5920	4 1/2"	10.5#	K-55
Tubing Program:		0 - 5920	2 3/8"	4.7#	J-55

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 turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 873'. 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 211 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (248 cu ft. of slurry, 200% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

4 1/2" production casing - First stage: Lead with 160 sacks of 65/35 Class "B" pozmix with 6% gel, 2% CaCl₂, 5#/sack gilsonite, and 1/4#/sack Flocele. Tail with 240 sacks of Class "B" cement with 2% CaCl₂, (570 cu. ft., 75% excess to circulate stage tool @ 4500'). Second stage: Lead with 290 sacks of 65/35 Class "B" pozmix with 6% gel, 2% CaCl₂, 5#/sack gilsonite, and 1/4#/sack Flocele. Tail with 435 sacks of Class "B" cement with 2% CaCl₂, (1025 cu. ft., 100% excess to circulate stage tool @ 2250'). Third stage: Lead with 290 sacks of 65/35 Class "B" pozmix with 6% gel, 2% CaCl₂, 5#/sack gilsonite, and 1/4#/sack Flocele. Tail with 436 sacks of Class "B" cement with 2% CaCl₂, (1030 cu. ft., 100% excess to circulate surface).