

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
BLM

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK AM 9:56

<p>1a. TYPE OF WORK PLUG BACK</p> <p>1b. TYPE OF WELL GAS</p> <hr/> <p>2. OPERATOR MERIDIAN OIL INC.</p> <hr/> <p>3. ADDRESS &amp; PHONE NO. OF OPERATOR P.O. BOX 4289 FARMINGTON, NM 87499 (505) 326-9700</p> <hr/> <p>4. LOCATION OF WELL  1090' FNL, 1840' FWL</p> <hr/> <p>14. DISTANCE IN MILES FROM NEAREST TOWN</p>	<p>5. LEASE NUMBER NM 0433</p> <p>6. IF INDIAN, ALL. OR TRIBE NAME</p> <hr/> <p>7. UNIT AGREEMENT NAME HUERFANO UNIT</p> <hr/> <p>8. FARM OR LEASE NAME HUERFANO UNIT</p> <p>9. WELL NO. 215</p> <hr/> <p>10. FIELD, POOL, OR WILDCAT ANGEL PEAK GALLUP <i>EXT</i></p> <p>11. SEC. T. R. M OR BLK. <i>C</i> SECTION 9, T26N, R10W</p> <hr/> <p>12. COUNTY SAN JUAN</p> <p>13. STATE N.M.</p> <hr/> <p>15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE.</p> <p>16. ACRES IN LEASE</p> <p>17. ACRES ASSIGNED TO WELL 320.00</p> <hr/> <p>18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. COMPL., OR APPLIED FOR ON THIS LEASE.</p> <p>19. PROPOSED DEPTH</p> <p>20. ROTARY OR CABLE TOOLS</p> <hr/> <p>21. ELEVATIONS (DF, FT, GR, ETC.) 6640' GR</p> <p>22. APPROX. DATE WORK WILL START</p>
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23. PROPOSED CASING AND CEMENTING PROGRAM

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\*SEE OPERATIONS PLAN

24. AUTHORIZED BY: *[Signature]* (SHL)  
REGULATORY AFFAIRS

*6-27-91*  
DATE

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

NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160-3.  
(NO ADDITIONAL DIRT WORK WILL BE REQUIRED)

APPROVED

JUL 15 1991

*[Signature]*  
AREA MANAGER  
FARMINGTON RESOURCE AREA

*Hold 5-10-91 For 115L*

Submit to Acreage  
District Office  
State Lease - 4 copies  
Fee Lease - 3 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

RECEIVED  
BLM  
Form C-102  
Revised 1-1-89

OIL CONSERVATION DIVISION

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

91 JUN 28 AM 9:56

019 FARMINGTON, N.M.

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

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

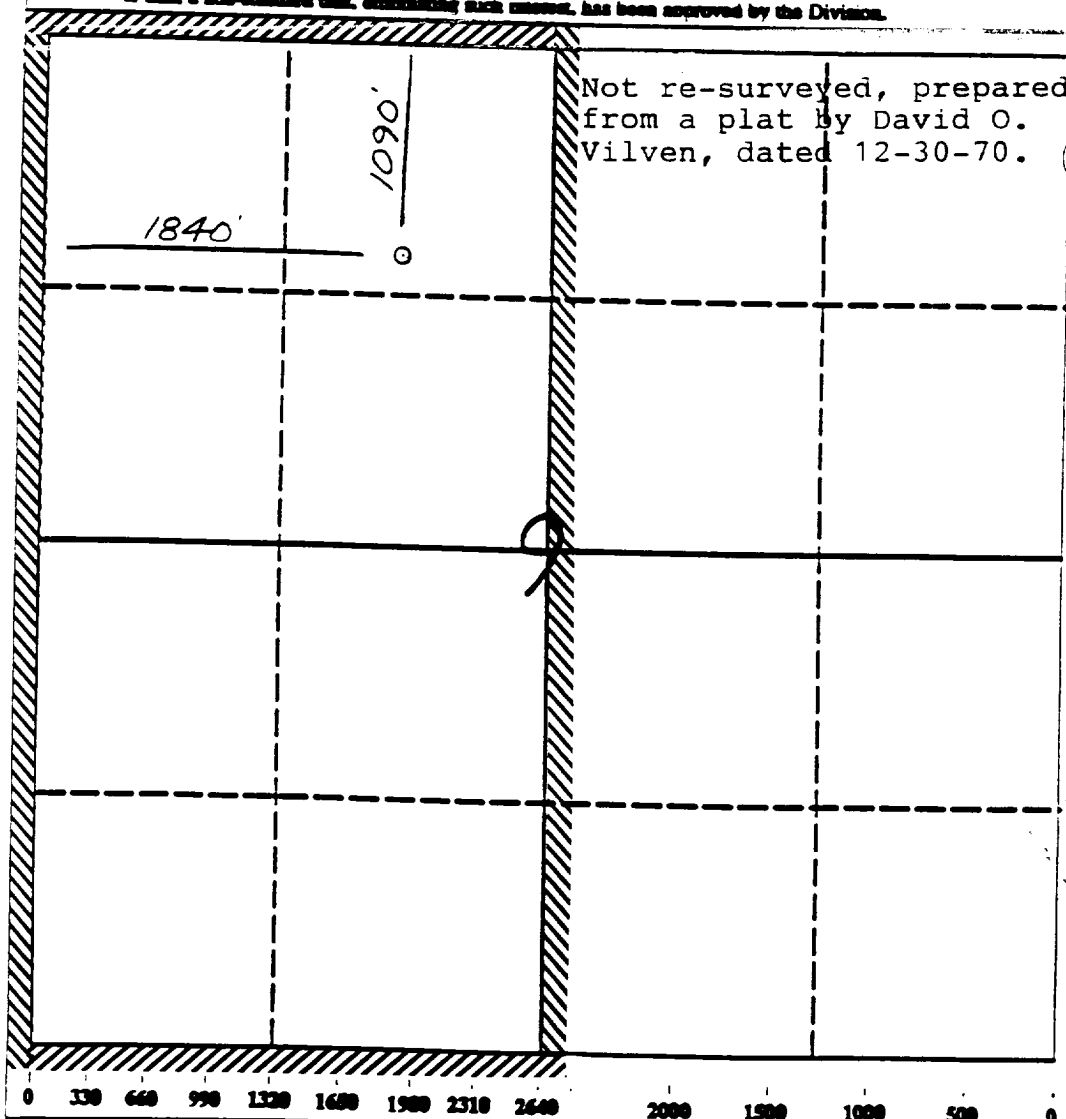
DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Meridian Oil Inc.			Lease Heurfano Unit			Well No 215		
Unit Letter C	Section 9	Township 26 North	Range 10 West	County San Juan		NMPM		
Actual Footage Location of Well: 1090 feet from the North line and 1840 feet from the West line								
Ground level Elev. 6640'			Producing Formation Gallup			Pool Angel Peak <i>EXT</i>		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 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, 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.

*Peggy Bradfield*  
Signature

Peggy Bradfield

Printed Name

Regulatory Affairs

Position

Meridian Oil Inc.

Company

6-27-91

Date

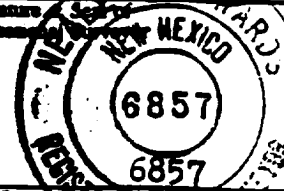
SURVEYOR CERTIFICATION

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.

6-27-91

Date Surveyed

*Neale C. Edwards*  
Signature  
Professional Surveyor



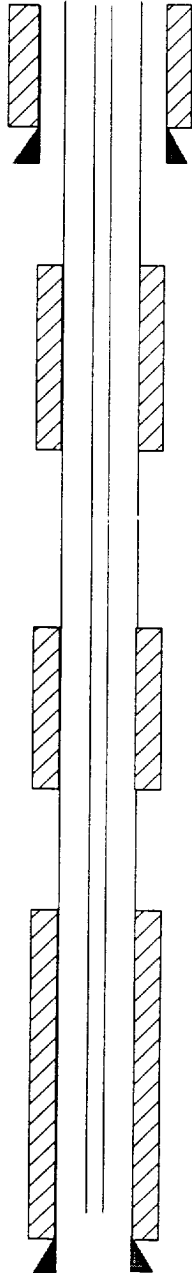
Certificate  
Neale C. Edwards

# HUERFANO UNIT #215

## WELLBORE DIAGRAMS

BEFORE W/O

AFTER W/O



8.625" 24# CSG SET @ 208'

OJO ALAMO 1138'

TOC 1450' (TS)

FRUITLAND 1738'

PC 2190'

DV TOOL @ 2413'

TOC 3989'

CLIFF HOUSE 4138'

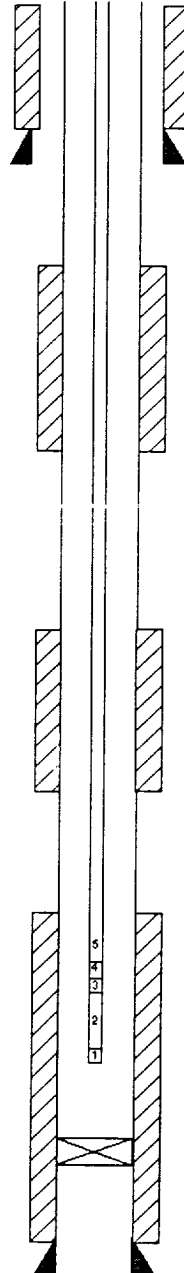
DV TOOL @ 4999'

GALLUP 5700'

TOC 5870'

GRANEROS 6648'

DAKOTA 6808'  
2-3/8" 4.7# TBG SET @ 6811'  
4.5" 10.5# CSG SET @ 6919'



### TBG RUN ORDER

- 1) 1/2" TAPPED BULLPLUG
- 2) 1 JOINT 2-3/8" TBG
- 3) 3' PERF. SUB @ 6090'
- 4) SEATING NIPPLE
- 5) 2-3/8" TBG TO SURFACE

CIBP @ 6695'

RECOMPLETION PROCEDURE  
HUERFANO UNIT #215

**\*\*NO WORK IS TO BE PERFORMED OR EQUIPMENT TO BE LOCATED OFF APPROVED WELL PAD\*\***

1. Prepare location for workover. Set tanks and fill with water.
2. MOL and RU. NU BOP with flow tee and stripping head, and test. NU blowlines. Load hole with 2% KCl water.
3. TOOH with tubing. TIH with 4-1/2" casing scraper to 6695'. TOOH. TIH with CIBP and set at 6695'. TIH with 4-1/2" packer on 2 joints of tubing. Pressure test CIBP to 3800 psi. TOOH with packer.

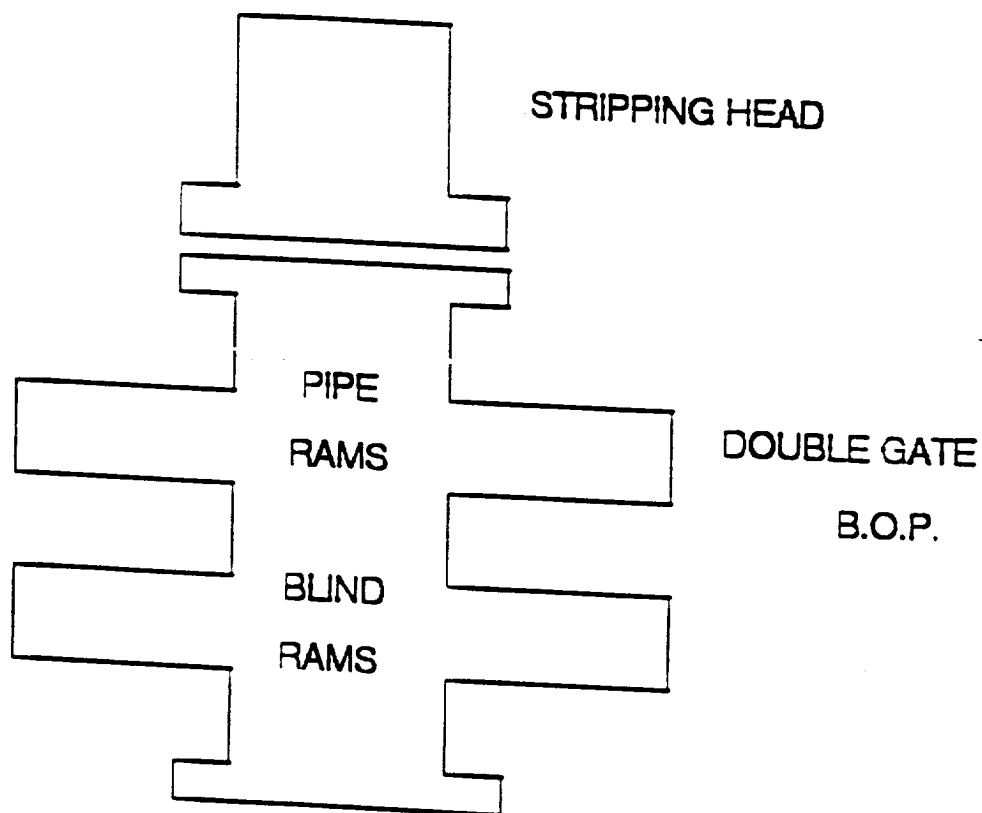
**\*\*\*STAGE ONE\*\*\***

4. Perforate first stage. Shoot 2 SPF for a total of 66 holes over the following intervals: 5978-81', 5984-88', 5994-6001', 6009-19', 6072-77', 6081-85'
5. Wash perforations with HCl acid.
6. TIH with 4-1/2" fullbore packer on 2 joints of 2-7/8" tubing.
7. RU for fracture treatment. Hold safety meeting with all personnel. Pressure test surface lines to 4800 psi. Fracture treat first stage with nitrogen, sand, and water.

**\*\*\*STAGE TWO\*\*\***

8. TOOH with packer. TIH with gauge ring. TOOH. TIH with top drillable bridge plug. Set at 5965'. TIH with 4-1/2" fullbore packer on 2 joints of 2-7/8" tubing.
9. Pressure test bridge plug to 3800 psi. Release pressure. TOOH with packer.
10. Perforate second stage. Shoot 2 SPF for a total of 58 holes over the following intervals: 5894-97', 5906-23', 5932-36', 5947-52'
11. Wash perforations with HCl acid.
12. TIH with 4-1/2" fullbore packer on 2 joints of 2-7/8" tubing.
13. RU for fracture treatment. Hold safety meeting with all personnel. Pressure test surface lines to 4800 psi. Fracture treat second stage with nitrogen, sand, and water.
14. Clean out upper zone until sand flow stops. Drill out top drillable bridge plug. Clean out lower zone until sand flow stops.
15. TIH with 1/2" tapped 2-3/8" bullplug, 1 full joint 2-3/8" tubing, 3' perforated sub, seating nipple, and 2-3/8" tubing to surface.
16. Test well for production capacity. After production capacity has been determined, design pump assembly.

# WORKOVER / RECOMPLETION B.O.P. SCHEMATIC



MINIMUM: 6" 2000 PSI DOUBLE GATE B.O.P.  
MAXIMUM ANTICIPATED SHUT-IN WELLHEAD  
PRESSURE IS LESS THAN 2000 PSI