

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well GAS	5. Lease Number SF-078001B 6. If Indian, All. or Tribe Name 7. Unit Agreement Name Huerfano Unit 8. Well Name & Number Huerfano Unit #131 9. API Well No.
2. Name of Operator Meridian Oil Inc.	10. Field and Pool Angels Peak Gl/ Basin Dakota 11. County and State San Juan Co, NM
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	
4. Location of Well, Footage, Sec., T, R, M 800'N, 990'W Sec.34, T-26-N, R-10-W, NMPM	

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission	Type of Action	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other -	

13. Describe Proposed or Completed Operations

It is intended to open the Gallup formation and commingle with the Dakota per the attached procedure and wellbore diagram. Also attached is a revised C-102 plat for the Gallup - Dakota formations.

RECEIVED

MAY 11 1992

CON. DIV.]

DIST 3

RECEIVED
BLM
MAY -5 AM 11:37
FARMINGTON, N.M.

14. I hereby certify that the foregoing is true and correct.

Signed *James Bradford* (JAS) Title Regulatory Affairs Date 5-4-92

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any:

APPROVED

MAY 08 1992

AREA MANAGER

NMOOD

MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-100
 Supersedes C-12
 Effective 1-1-61

All distances must be from the outer boundaries of the Section

RECEIVED

BLM

131

92 MAY 5 AM 11:37

SAN JUAN
 019 FARMINGTON, N.M.

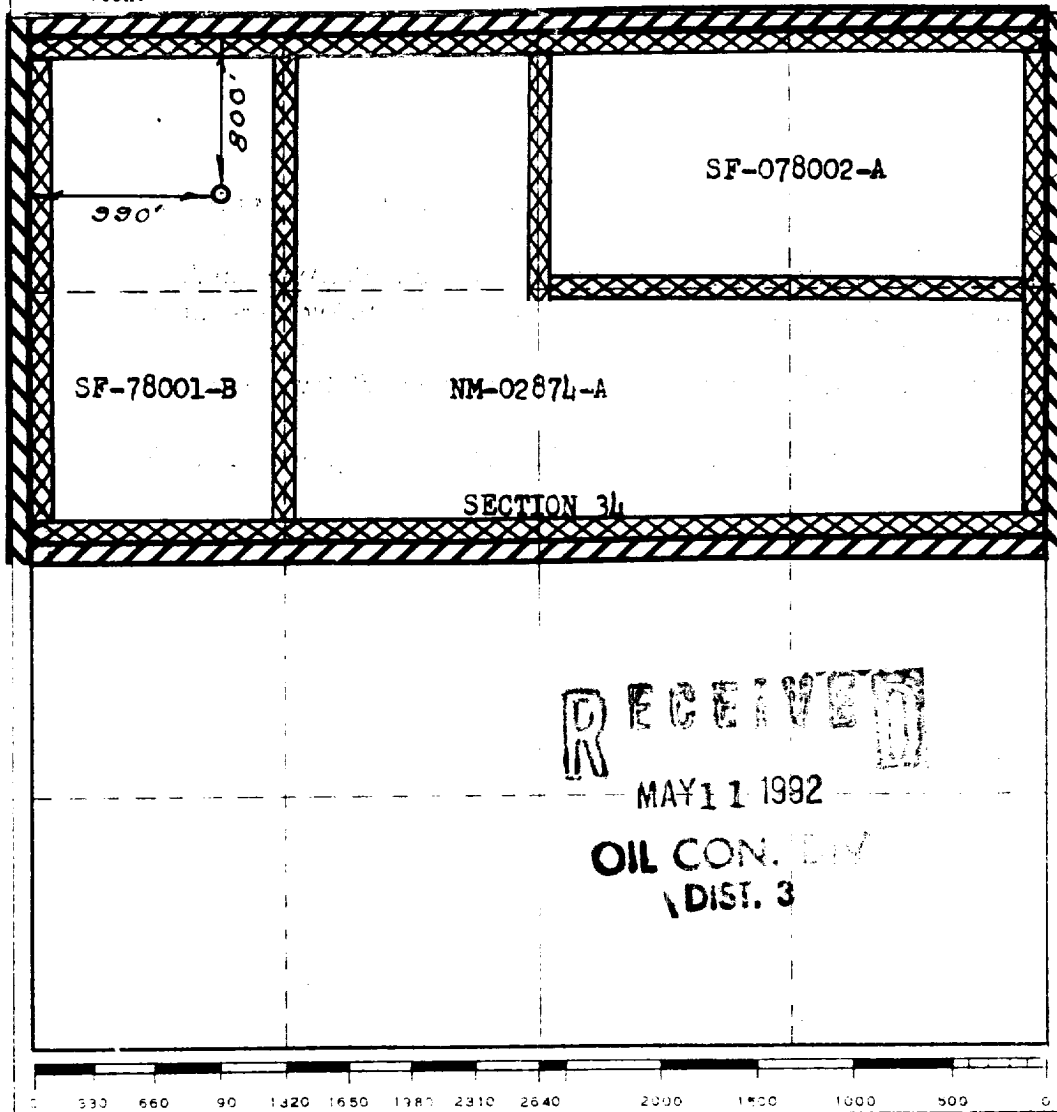
Operator Meridian Oil Inc.		Lease HUERFANO UNIT (SF-078001-B)	
Tract Letter D	Section 34	Township 26-N	Range 10-W
Acres in Section 800		Acres in Tract 990	
Feet from the 6704		Feet from the 320.00	
Direction DAKOTA/GALLUP		Direction BASIN/ANGELS PEAK	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 interests 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 interests, has been approved by the Commission.



CERTIFICATION

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

Peggy Bradfield

Peggy Bradfield

Regulatory Affairs

Meridian Oil Inc.

Date 5-4-92

RECEIVED

MAY 11 1992

OIL CON. DIV
 DIST. 3

I hereby certify that the well location shown on this plat was plotted from field notes of official surveys made by me or under my supervision and that there are no other claims to the best of my knowledge and belief.

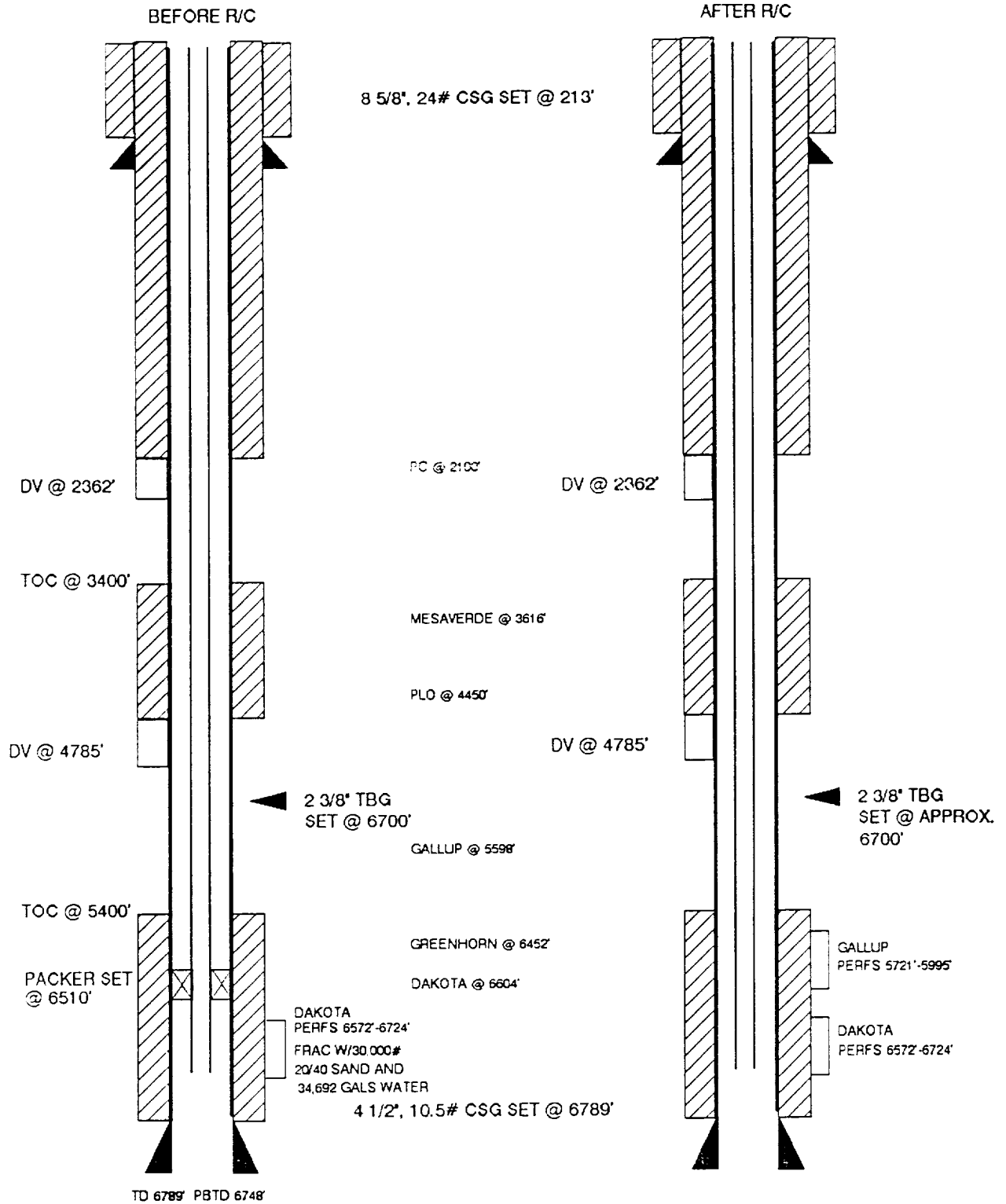
DECEMBER 12, 1970

David O. Jones

1760

HUERFANO UNIT #131

BASIN DAKOTA
UNIT D SECTION 34, T26N-R10W



**RECOMPLETION PROCEDURE
HUERFANO UNIT #131**

***** G A L L U P - D A K O T A C O M M I N G L E *****

COMPLY WITH ALL BLM, NMOCD AND MERIDIAN OIL RULES AND REGULATIONS

1. Prepare location for workover. Set 3-400 bbl tanks and fill with 2% KCL water.
 2. MOL and RU. NU BOP with flow tee and stripping head, and test. NU 2-7/8" blowline with 5000# gate valve on tubing head and one 7" Blooie Line.
 3. Flow test Dakota formation to establish production capability (swab if needed to kick off). Obtain fluid sample for compatibility analysis. Confirm gauge with Meridian office before proceeding to next step.
 4. Load backside with 2% KCL water and pressure test to *1000 psi. Release pressure and TOOH with Baker Loc-set packer (216 joints, 6700') 2-3/8", 4.7#, J-55 8rd EUE tubing. TIH with 4-1/2" casing scraper to 6740'. Circulate hole clean. TOOH.
 5. RU wireline unit. TIH with wireline and P.O.T top-drillable bridge plug, set at 6100'. Run CBL from 6100' to 4100'. TIH with 4-1/2" fullbore packer on 2 joints of 2-7/8" tubing to protect wellhead from pressure. Pressure test CIBP and casing to *3800 psi. Release pressure, TOOH.
- * A modified procedure will be provided if pressure test fails or CBL shows insufficient cement coverage across Gallup interval.

*****STAGE ONE*****

6. RU wireline unit and perforate first stage (Tocito and Regressive Gallup) with a 3-1/8" HSC gun (0.49" hole, 16 gram GOEX or equivalent charge). Shoot 1 shot per foot **top-down** over the following intervals:

<u>Holes</u>	<u>Interval</u>	<u>Net Feet</u>	<u>Shot Density</u>	<u>Zone</u>
6	5843'-5848'	5	1 per ft	Tocito
11	5863'-5883'	20	1 per 2ft	Tocito
5	5914'-5918'	4	1 per ft	Reg. Gallup
5	5932'-5936'	4	1 per ft	"
5	5939'-5943'	4	1 per ft	"
4	5946'-5949'	3	1 per ft	"
16	5972'-5987'	15	1 per ft	"
<u>5</u>	5991'-5995'	<u>4</u>	1 per ft	"
57 Holes		59 Feet		

RECOMPLETION PROCEDURE-pg 2
HUERFANO UNIT #131

7. RD wireline. TIH with 4-1/2" fullbore packer to 5800' on 2-3/8" tubing. Displace tubing with inhibited HCL acid. Set packer. Test backside to 1000 psi to insure packer is set. Breakdown and ball off the Regressive Gallup with a total of 70-1.3 S.G., 7/8" RCN ball sealers (seven sets of ten) and 1700 gallons 15% inhibited HCL acid. **Maximum pressure 3800 psi.** Treat acid with the following additives per 1000 gallons:

- * 2 gallons corrosion inhibitor
- * 2 gallon silt suspender
- * 5 gallons Citric Acid (Iron sequestering agent)
- * 1 gallon quaternary amine-type clay stabilizer

* Monitor pressure on backside during job.

8. Release pressures and TIH with packer to 6050' to knock off balls. TOOH.
9. TIH and set 4-1/2" fullbore packer on 2 joints of 2-7/8" tubing.

SHUT DOWN OVER NIGHT. BE PREPARED TO FRACTURE STIMULATE FIRST STAGE AT DAYLIGHT.

PURPOSE IS TO GET BOTH STAGES COMPLETED IN ONE (1) DAY.

10. **Stimulation Company should be ready to pump at daylight.** Hold safety meeting with all personnel on location. Pressure test surface lines to 4800 psi. Fracture treat first stage (Regressive Gallup) according to attached schedule at 40 BPM with 80,600 lbs. of sand and 22,600 gallons of gelled water. Exact flush to top perf is critical to second stage top drillable bridgeplug placement. **MAXIMUM PRESSURE IS LIMITED TO 3800 PSI!**
11. Flow well back slowly until closure is seen. Shut well in immediately after closure. RD Stimulation Company.

*****STAGE TWO*****

12. Release pressure. TOOH with packer. RU wireline unit. TIH with P.O.T. top drillable bridge plug. Set at 5830'. TOOH with wireline. TIH with 4-1/2" fullbore packer on 2 joints of 2-7/8" tubing.
13. Pressure test bridge plug to 3800 psi. Release pressure. TOOH with packer.

RECOMPLETION PROCEDURE-pg 3
HUERFANO UNIT #131

14. RU wireline unit and perforate second stage (Niobrara "A", "B", and "C") with a 3-1/8" HSC gun (0.49" hole, 16 gram GOEX or equivalent charge). Shoot top down, over the following intervals:

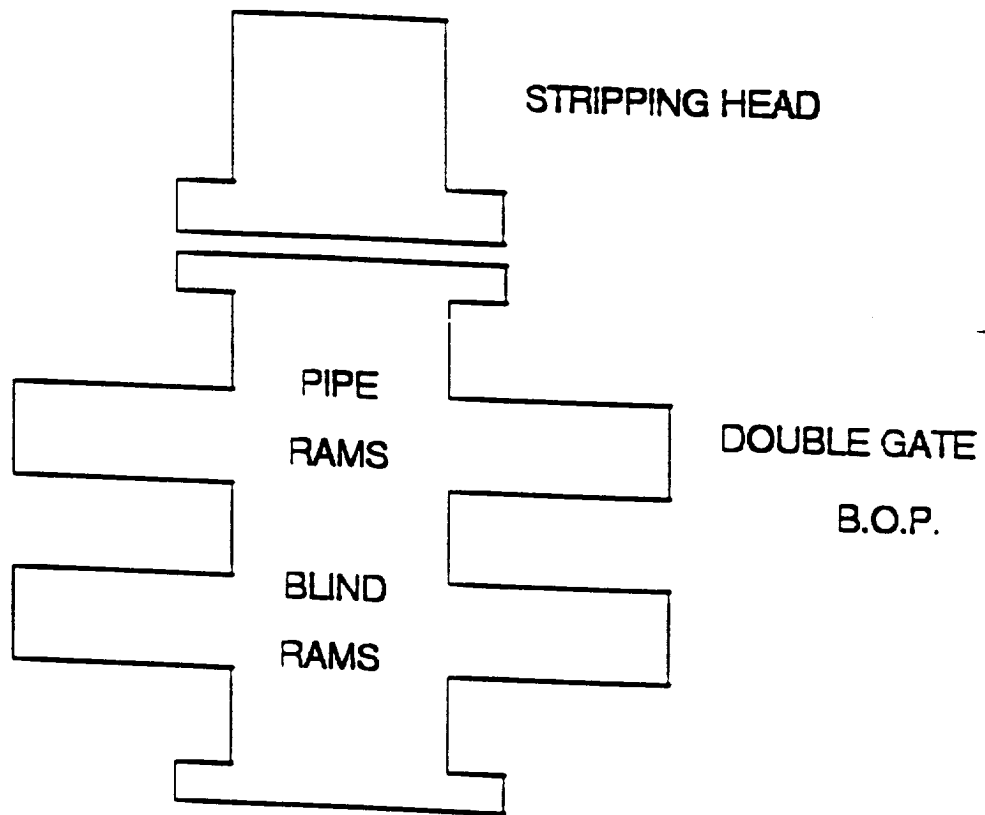
<u>Holes</u>	<u>Interval</u>	<u>Net Feet</u>	<u>Shot Density</u>	<u>Zone</u>
5	5624'-5628'	4	1 per ft	A
7	5721'-5727'	6	1 per ft	B
11	5737'-5747'	10	1 per ft	B
7	5782'-5788'	6	1 per ft	C
<u>8</u>	5794'-5808'	<u>14</u>	1 per 2ft	C
38 Holes		40 Feet		

15. RD wireline. TIH with 4-1/2" fullbore packer to 5550' on 2-3/8" tubing. Displace tubing with inhibited HCL acid. Set packer. Test backside to 1000 psi insure packer is set. Breakdown and bail off the "B" "C" and Tocito with a total of 50-1.3 S.G., 7/8" RCN ball sealers (five sets of ten) and 1600 gallons 15% inhibited HCL acid. **Maximum pressure 3800 psi. * Monitor pressure on backside during job.** Treat acid with the following additives per 1000 gallons:

- * 2 gallons corrosion inhibitor
- * 2 gallon silt suspender
- * 5 gallons Citric Acid (Iron sequestering agent)
- * 1 gallon quaternary amine-type clay stabilizer

16. Release pressures and TIH with packer to 5830' to knock off balls. TOOH. TIH and set 4-1/2" fullbore packer on 2 joints of 2-7/8" tubing.
17. RU Stimulation Company for fracture treatment. Hold safety meeting with all personnel on location. Pressure test surface lines to 4800 psi. Fracture stimulate second stage according to attached schedule at 40 BPM with 118,000 lbs. of sand and 26,900 gallons of gelled water. **MAXIMUM PRESSURE IS LIMITED TO 3800 PSI!**
18. Flow well back slowly until closure is seen. RD Stimulation Company. Release pressure TOOH with packer. TIH with 3-7/8" concave flat bottom mill, bit sub, and (4) 3-1/8" drill collars on 2-3/8" tubing, cleaning out with gas. Clean out upper zone until sand flow stops. Leave flowing over night (with gas).
19. TIH and check for fill. Gauge well. Drill out the first of two top drillable bridge plugs. Clean out lower zone with gas until sand flow stops. Wash down to lower bridge plug at 6100'. **Do Not Drill Lower Bridge Plug At This Time !**

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