

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

- | <p>1. Type of Well
GAS</p> <hr/> <p>2. Name of Operator
Meridian Oil Inc.</p> <hr/> <p>3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499 (505) 326-9700</p> <hr/> <p>4. Location of Well, Footage, Sec., T, R, M
1450'N, 1450'E Sec.29, T-27-N, R-10-W, NMPM</p> <hr/> <p>12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA</p> <table border="0" style="width: 100%;"> <tr> <th style="text-align: left;">Type of Submission</th> <th style="text-align: left;">Type of Action</th> </tr> <tr> <td><input checked="" type="checkbox"/> Notice of Intent</td> <td><input type="checkbox"/> Abandonment</td> </tr> <tr> <td><input type="checkbox"/> Subsequent Report</td> <td><input checked="" type="checkbox"/> Recompletion</td> </tr> <tr> <td><input type="checkbox"/> Final Abandonment</td> <td><input type="checkbox"/> Plugging Back</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Casing Repair</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Altering Casing</td> </tr> </table> | Type of Submission | Type of Action | <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Abandonment | <input type="checkbox"/> Subsequent Report | <input checked="" type="checkbox"/> Recompletion | <input type="checkbox"/> Final Abandonment | <input type="checkbox"/> Plugging Back | | <input type="checkbox"/> Casing Repair | | <input type="checkbox"/> Altering Casing | <p>5. Lease Number
SF-080810</p> <p>6. If Indian, All. or
Tribe Name</p> <p>7. Unit Agreement Name
Huerfano Unit</p> <p>8. Well Name & Number
Huerfano Unit #217</p> <p>9. API Well No.</p> <p>10. Field and Pool
Angels Peak Gallup</p> <p>11. County and State
San Juan County, NM</p> <hr/> <p>13. Describe Proposed or Completed Operations</p> |
|--|--|----------------|--|--------------------------------------|--|--|--|--|--|--|--|--|---|
| Type of Submission | Type of Action | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Abandonment | | | | | | | | | | | | |
| <input type="checkbox"/> Subsequent Report | <input checked="" type="checkbox"/> Recompletion | | | | | | | | | | | | |
| <input type="checkbox"/> Final Abandonment | <input type="checkbox"/> Plugging Back | | | | | | | | | | | | |
| | <input type="checkbox"/> Casing Repair | | | | | | | | | | | | |
| | <input type="checkbox"/> Altering Casing | | | | | | | | | | | | |

It is intended to plug and abandon the Dakota formation and recomplete the wellbore to the Gallup formation according to the attached procedure and wellbore diagram.

MAR 26 1992
OIL CON. DIV.

RECEIVED
ELM
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BUREAU OF LAND MGMT., N.M.

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

Signed *[Signature]* (KAS) Title Regulatory Affairs Date 3-18-92

(This space for Federal or State Office use)

APPROVED BY _____ Title _____ Date _____

CONDITION OF APPROVAL, if any:

APPROVED

Date _____

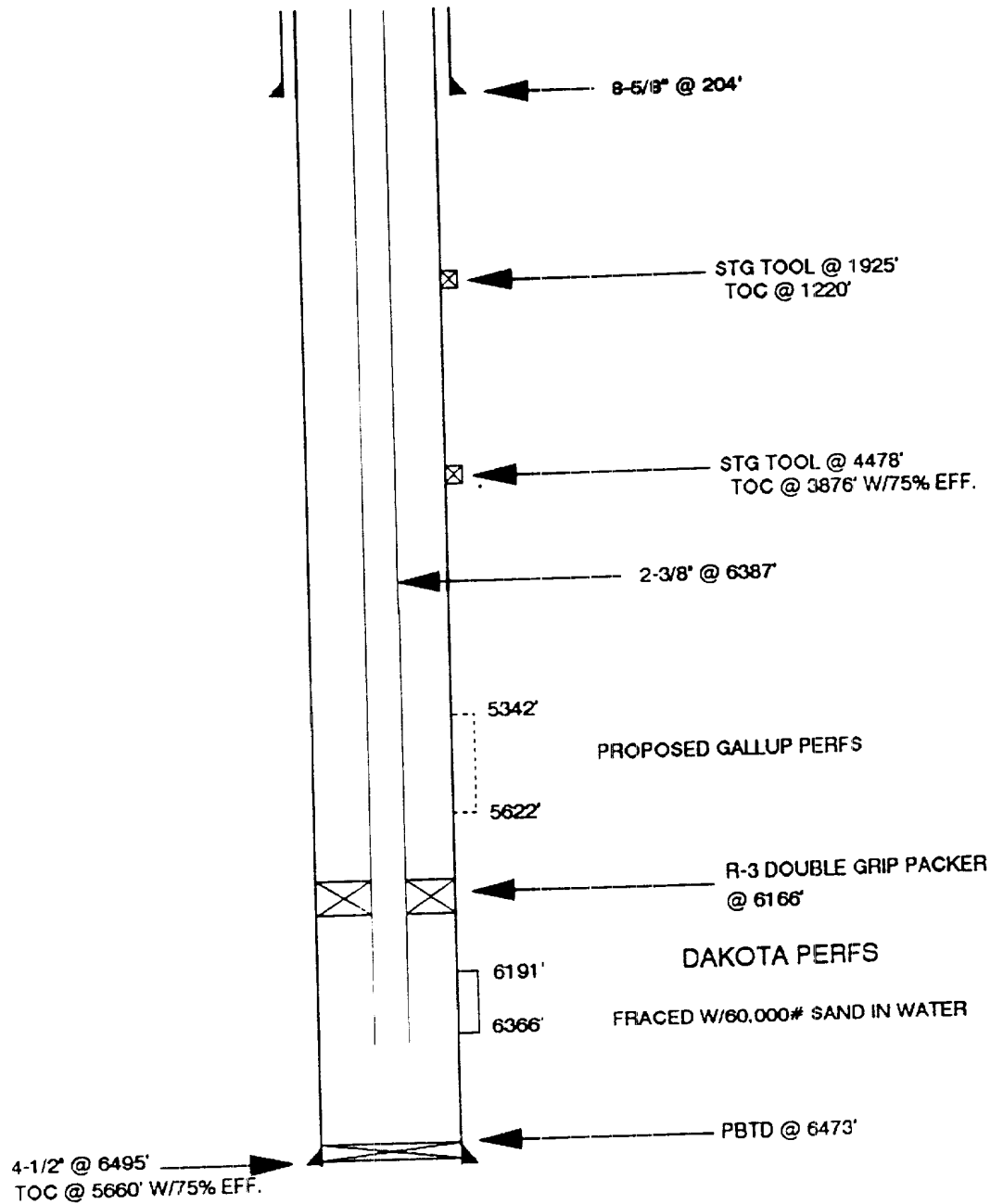
MAR 24 1992

[Signature]
AREA MANAGER

NAFOOD

HUERFANO UNIT #217 DK

UNIT G SECTION 29 T27N R10W
SAN JUAN COUNTY, NEW MEXICO



HUERFANO UNIT #217 DK
Recommended Procedure
G 29 27 10

1. Comply to all NMOC, BLM, & MOI, rules & regulations.
MOL and RU completion rig. NU 6" 900 series BOP with flow tee and stripping head. Test operation of rams. NU blooie line and 2-7/8" relief line. Blow well down.
2. Set blanking plug in PKR @ 6166' (ID=1.66"). Test tbq to 4500 psi. TOH W/6387' 2-3/8" tbq & R-3 Double Grip pkr. Run 4-1/2" csg scraper on 2-3/8" tbq to 6050'. This well has a csg leak most likely located above 1220'. TOH. Set 4-1/2" cement retainer on 2/3-8" tbq @ 6050' & squeeze w/40 sx cmt. This will fill the Dakota perfs with 100% excess cmt. Sting out of cmt ret, pump 4 sx cmt on top ret. TOH.
3. Run CBL from 6050'-1100'.
4. Using fullbore pkr, locate csg leak (anticipate leak 204'-1220'). TOH.
5. Initiate squeeze procedures to block proposed Gallup perfs above & below if bond log warrants.
6. Set pkr 200' above csg leak, establish rate, & sq w/cmt w/2% CaCl₂ as required. Sq w/bradenhead valve open & attempt to circ cmt out bradenhead valve. PU & reverse out tbq. Reset, pressure up, & WOC.
7. TOH w/tbq & pkr. TIH w/3-7/8" bit on 2-3/8" tbq. Drill cmt & C.O. w/air/mist to 5800'. Pressure test csg leak (& sq perfs) to 3500 psi. Resq if necessary. If csg holds 3500 psi, and prepare to frac down csg. If csg cannot be made to hold 3500 psi, sq to hold 1000 psi and prepare to frac down frac string.
8. Perf Gallup w/1- 0.32" spf @ 5622'-10' (13 holes), 5556', 51', 47', 36', 30', 24', 18', 12', 5451', 46', 40', 5344', 42'. Total 26 holes.
9. TIH w/pkr on 2-3/8" tbq & set @ 5100'. Breakdown & attempt to balloff Gallup perfs w/2000 gal HCL acid & 54 perf balls. Max pressure = 4500 psi. Acid to contain 1 gal/1000 aqua flow, 2 gal/1000 LT-21 (clay & silt suspenders), 5 gal/1000 XA-2L (Fe control), and 2 gal/1000 I17 (corrosion inhibitor). Lower pkr to 5650' to knock off balls. TOH w/ tubing and pkr.
10. Fill 9 - 400 bbl. frac tanks with 2% KCL water. Filter all water to 25 microns. Gel needed for frac is 2466 bbls.

HUERFANO UNIT #217 - RECOMPLETION PROCEDURE
Page 2

11. a) If csg holds 3500 psi, fracture treat Gallup down csg with 100,000 gals of 30# delayed X-linked gel and 150,000# 20/40 Brady sand. Pump @ 25 BPM. Monitor bottomhole and surface treating pressures, rate, & sand concentration, with computer van. All sand to be tagged with 0.4 mCi/1000# Ir-192 tracer. Max pressure is 3500 psi and estimated treating pressure is 3200 psi.
- b) If csg can only be made to hold 1000 psi, with ^{6.4K psi 10K} 500 psi held on backside & recorded, fracture treat Gallup down 2-7/8" IJ or shave collar tbg w/ pkr set @ 4400' or higher depending on CBL and location of leak. Perform frac as stated in step 11a with a Max of 5000 psi and an estimated treating pressure of 3500 psi.

Treat per the following schedule:

<u>Stage</u>	<u>Gel Vol. (Gals.)</u>	<u>Sand Vol. (lbs.)</u>
Pad	40,000	----
1.0 ppg	10,000	10,000
2.0 ppg	20,000	40,000
3.0 ppg	20,000	60,000
4.0 ppg	10,000	40,000
<u>Flush</u>	<u>3,600</u>	<u>----</u>
Totals	100,000	150,000#

Treat frac fluid with the following additives per 1000 gallons:

- | | |
|----------------------|------------------------|
| * 30# J-4L | (Base Gel) |
| * 0.75 gals CL-30 | (X-Linker) |
| * 3.0 gals 5-L | (PH Buffer) |
| * 1.0 gal. Aqua-Flow | (Non-ionic Surfactant) |
| * 1.0# Ultra Perm | (Breaker) |
| * 0.5# B-5 | (Breaker) |
| * 0.35# Fracide 20 | (Bacteriacide) |
| * 2% KCL | |

12. Shut-in well for eight hours to allow gel to break and obtain closure.
13. Blow down & TOH w/tbg & pkr. TIH w/notched collar on 2-3/8" tbg & C.O. to 5800' w/air/mist. Take pitot gauges when possible.
14. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 5800'-5000'. Also check location of squeezed csg leak.

HUERFANO UNIT #217 -- RECOMPLETION PROCEDURE
Page 3

15. TIH with 2-3/8" tbg with standard seating nipple one joint off open ended bottom. Land tbg @ 5600'.
16. ND BOP and NU wellhead. Rig down & release rig.

Approve: _____

R. F. Headrick

VENDORS:

Wireline:	Basin	327-5244
Fracturing:	Western	327-6222
RA Tagging:	Pro-Technics	326-7133

PMP

