

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
OCT 1 1995

Sundry Notices and Reports on Wells

1. Type of Well
GAS

2. Name of Operator
MERIDIAN OIL

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M
1550' FNL, 590' FEL, Sec. 36, T-27-N, R-11-W, NMPM

5. Lease Number
NM-01074
6. If Indian, All. or
Tribe Name
7. Unit Agreement Name
Huerfano Unit
8. Well Name & Number
Huerfano Unit #16
9. API Well No.
30-045-06168
10. Field and Pool
West Kutz Pict. Cliffs
11. County and State
San Juan Co, NM

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 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 checked="" type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other - Stimulate	

13. Describe Proposed or Completed Operations

It is intended to drill to a new TD of 1870', run and cement 3 1/2" casing, perforate and fracture treat the Pictured Cliffs according to the attached procedure and wellbore diagram. The well will then be returned to production.

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OCT - 2 1995
OIL CON. DIV.
DIST. 3

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

Signed [Signature] (PMP1) Title Regulatory Administrator Date 9/20/95

(This space for Federal or State Office use)

APPROVED BY _____ Title _____ Date _____
CONDITION OF APPROVAL, if any:

APPROVED

SEP 22 1995

DISTRICT MANAGER

NMCCD

HUERFANO UNIT #16 PC
 Workover Procedure
 H 36 27 11
 San Juan County, N.M.
 Lat-Long: 36.534592 - 107.947678

1. Comply to all NMOC, BLM, & MOI rules & regulations. MOL and RU completion rig. NU 6" 900 series BOP w/flow tee and stripping head. NU blooie line & 2-7/8" relief line.
2. TOH w/1-1/4" tbg & lay down. TIH w/4-3/4" bit on 2-3/8" work string & C.O. w/air/mist to new TD 1870'. Load hole w/1% KCL water. TOH.
3. MI Blue Jet. Run an advanced integrated data processing GSL neutron log 1870'-1400' & correlate to open hole log.
4. Run 3-1/2"-OD 9.2# J-55 NUE tbg to TD 1870' w/Omega type latching collar above 2' tbg sub w/notched collar on bottom. Cement w/200sx 50-50 Cl"B" POZ w/2% gel & 6-1/2#/sx kolite & 10% salt & 2% Cacl. (yield=1.44 cf/sx). After cmt, break & wash lines, run 2 wiper balls & Omega wiper latching plug, followed by 100 gal 7-1/2% HCL acid. Displace acid w/1%KCL water. Space out using tbg subs & install 3-1/2" csg in new csg spool. Install 6000 psi rental frac valve on 3-1/2" csg.
5. Pressure test csg to 6000 psi. MI Basin Perforating. Run GR-CCL & coorelate to neutron log. Perf PC w/about 16 holes over 130' of PC interval as per Production Engineering Dept. Perf w/2-1/8" SHOGUN SDP STP-2125-401NT 14 gr charges which make a 0.27" hole & 21.8" of penetration in concrete
6. Break down PC perfs down 3-1/2" csg w/2000 gal 15% GCL & 150% excess perf balls. Acidize @ 7 BPM w/max pressure = 6000 psi. Run junk basket to retrieve balls.
7. Spot & fill 2-400 bbl. frac tanks w/2% KCL water. Filter all water to 25 microns. One tank is for gel & one tank is for breakdown water. Usable gel water required for frac is 355 bbls.
8. Frac PC down 3-1/2" csg w/49,000 gals. of 70 quality foam using 30# gel as the base fluid & 80,000# 20/40 Arizona sand. Pump at 55 BPM. Monitor bottomhole & surface treating pressures, rate, foam quality, & sand concentration with computer van. Sand to be tagged w/ 0.4 mCi/1000# Ir-192 tracer. Max. pressure is 6000 psi & estimated treating pressure is 5500 psi. Treat per the folowing schedule:

<u>Stage</u>	<u>Foam Vol. (Gals.)</u>	<u>Gel Vol. (Gals.)</u>	<u>Sand Vol. (lbs.)</u>
Pad	14,000	4,200	---
1.0 ppg	10,000	3,000	10,000
2.0 ppg	10,000	3,000	20,000
3.0 ppg	10,000	3,000	30,000
4.0 ppg	5,000	1,500	20,000
Flush	<u>(629)</u>	<u>(189)</u>	<u>0</u>
Totals	49,000	14,700	80,000#

Shut well in after frac for six hours in an attempt to allow the gel to break. Treat frac fluid w/the following additives per 1000 gallons:

- * 30# J-48 (Guar Gel mix in full tank - 16,000 gal)
- * 1.0 gal. Aqua Flow (Non-ionic Surfactant mix in full tank)
- * 1.0# GVW-3 (Enzyme Breaker mix on fly)

- * 1.0# B - 5 (Breaker mix on fly)
 - * 3.0 gal Fracfoam I (Foamer mix on fly)
 - * 0.38# FracCide 20 (Bacteriacide mix on full tank)
9. Open well through choke manifold & monitor flow. Flow @ 20 bbl/hr. or less if sand is observed. Take pitot gauges when possible.
10. Change out frac valve w/tbg head. TIH w/notched collar on 1-1/4" IJ tbg & C.O. to 1868'. Monitor gas & water returns & take pitot gauges when possible.
11. When wellbore is sufficiently clean, TOH & run after frac gamma-ray log from 1868'-1400'.
12. TIH w/1-1/4" IJ tbg w/standard seating nipple one joint off bottom & again cleanout to 1868'. Use expendable check if necessary. When wellbore is sufficiently clean, land tbg @ 1730' KB. Take final water & gas samples & rates.
13. ND BOP & NU wellhead & tree. Rig down & release rig.

Approve: _____
Drilling Superintendent

VENDORS:

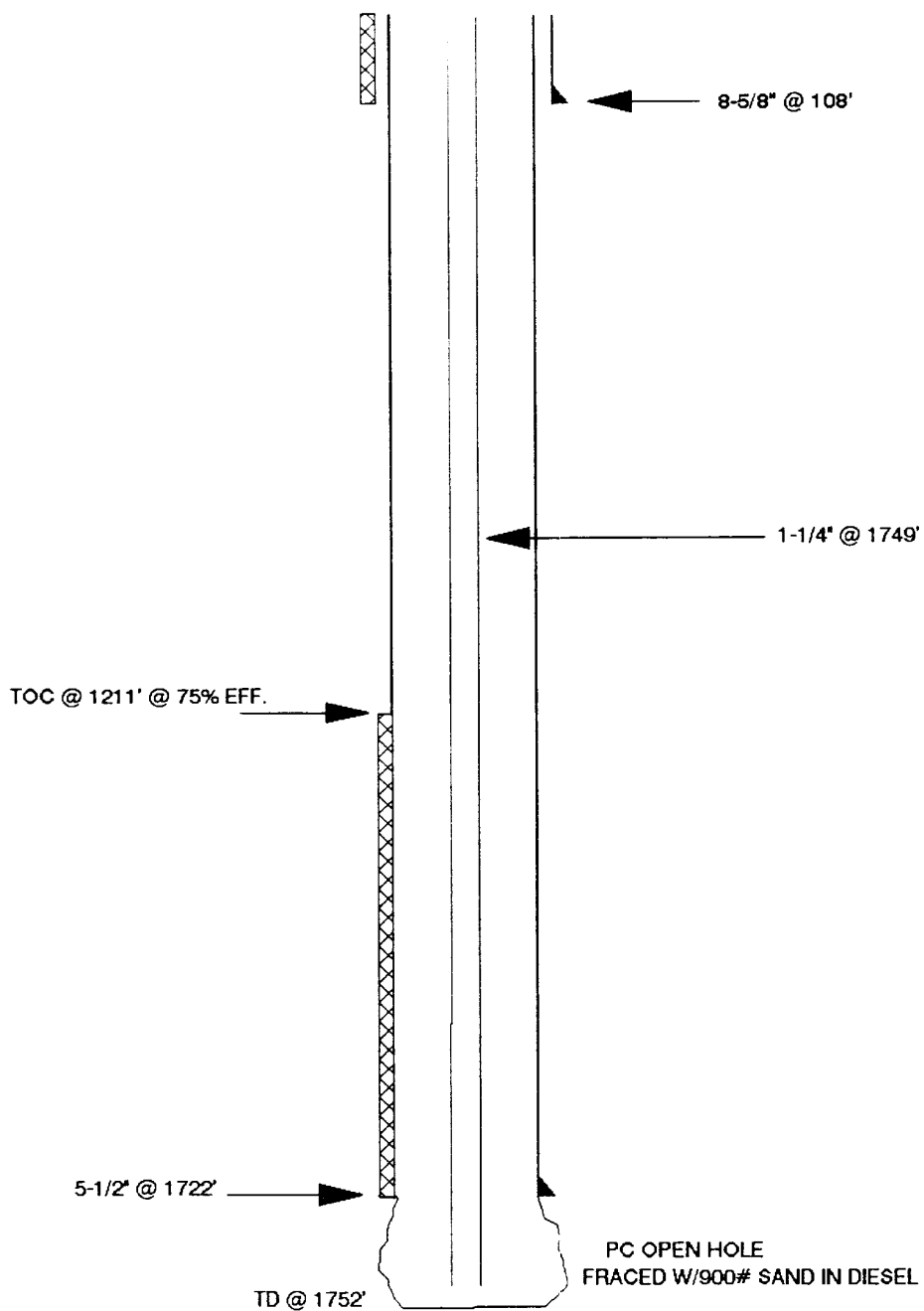
Logging:	Blue Jet	325-5584
Perfing	Basin	327-5244
Fracturing:	Howco	325-3575
RA Tag:	Pro-Technics	326-7133
Csg Equip:	Howco	325-3575
Cmt	Howco	325-3575

PMP

HUERFANO UNIT #16 PC

UNIT H SECTION 36 T27N R11W
SAN JUAN COUNTY, NEW MEXICO

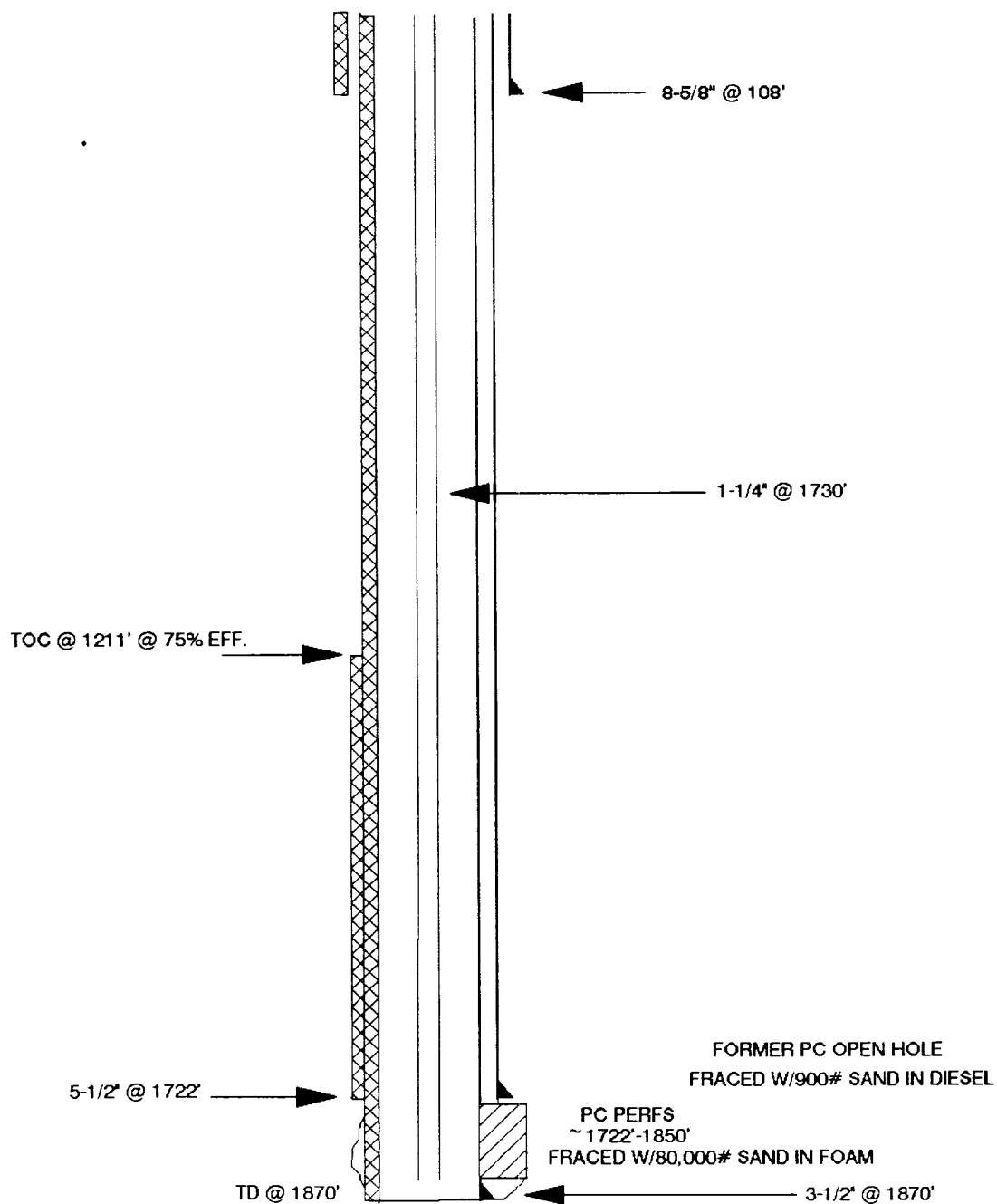
PRESENT



HUERFANO UNIT #16 PC

UNIT H SECTION 36 T27N R11W
SAN JUAN COUNTY, NEW MEXICO

PROPOSED

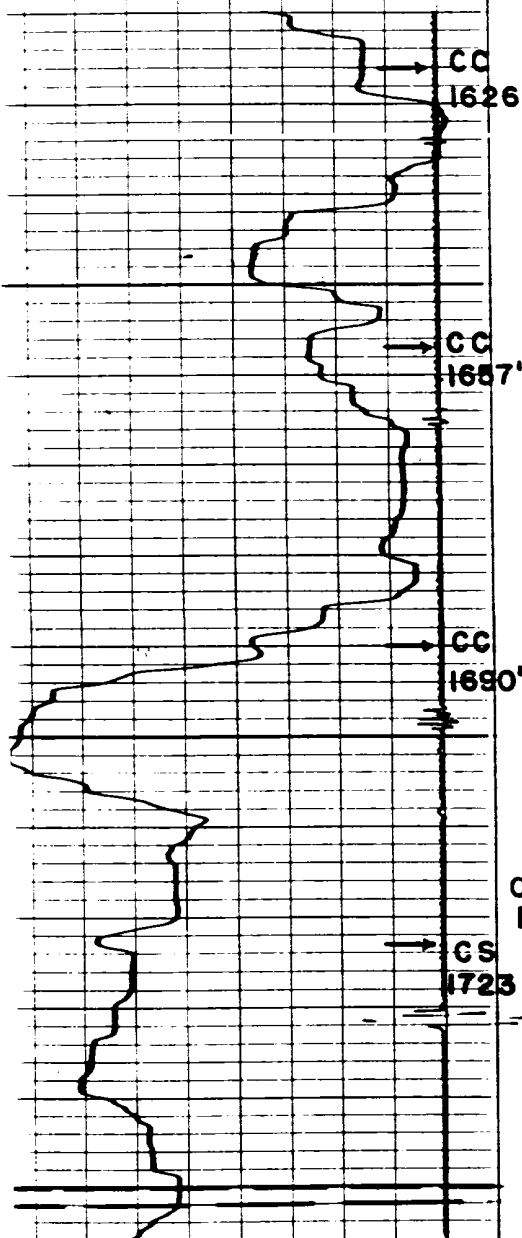


HFO # 16
H 36 27 11

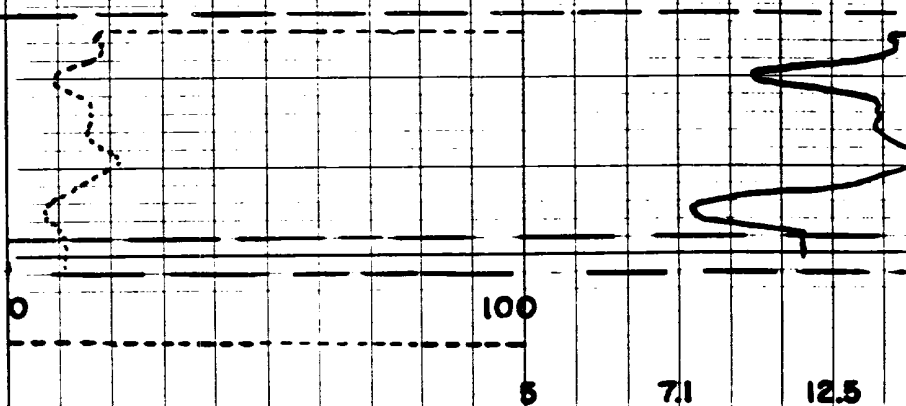
GAMMA RAY

CASING COLLARS

INDUCTION LOG



ACTIVITY INCREASES



FIRST READING 1750'
TOTAL DEPTH REACHED 1752'

FIRST READING 1748
TOTAL DEPTH REACHED 1752'

Pertinent Data Sheet - HUERFANO UNIT #16 PC

Location: 1550' FNL & 590' FEL, Unit H, Section 36, T27N, R11W, San Juan County, New Mexico

Field: West Kutz PC

Elevation: 6155' GL
11' KB

TD: 1752'
PBTD: 1752'

Completed: 10/8/52 **Spud Date:** 9/28/52

DP #: 50946A
Lease: Fed: NM 01074
GWl: 62.55%
NRI: 45.35%
Prop#: 007971100

Initial Potential: Initial Potential = 1,981 MCF/D, SICP=451 psi

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cement (Top)</u>
N/A	8-5/8"	28# N/A	108'	75 sx.	N/A
e7-7-8"	5-1/2"	14# N/A	1722'	75 sx.	1211' @ 75% EFF.

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>
1-1/4"	2.3# Line Pipe	1749'

Formation Tops:

Ojo Alamo:	686'
Kirtland Shale:	815'
Fruitland:	1405
Pictured Cliffs:	1717'

Logging Record: E-Log

Stimulation: Fraced open hole w/900# sand in diesel.

Workover History: None

Production history: PC 1st delivered 10/52. Current PC capacity is 0 MCF/D. PC cum is 902 MMCF..

Pipeline: EPNG

HFO

1600

78

E 31 27 10

OFFSET

TO:

HFO

#16

H36

27 11

1658

1680

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