

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well
GAS

Lease Number

LF-078092

If Indian, All. or
Tribe Name

2. Name of Operator

MERIDIAN OIL

Unit Agreement Name

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

Well Name & Number

Douthit #4

API Well No.

10-045-06284

4. Location of Well, Footage, Sec., T, R, M

990' FNL, 1700' FEL, Sec. 26, T-27-N, R-11-W, NMPM

Field and Pool

West Kutz Pict. Cliffs

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

☒ Notice of Intent

☐ Abandonment

☐ Change of Plans

☐ Subsequent Report

☐ Recompletion

☐ New Construction

☐ Plugging Back

☐ Non-Routine Fracturing

☐ Casing Repair

☐ Water Shut off

☐ Final Abandonment

☒ Altering Casing

☐ Conversion to Injection

☒ Other -

13. Describe Proposed or Completed Operations

It is intended to drill to a new TD of 2270', 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.

RECEIVED
OCT 11 1995
OIL CON. DIV.

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

Signed [Signature] (PMP) 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

NMOCD

DOUTHIT #4 PC
Workover Procedure
B 26 27 11
San Juan County, N.M.
Lat-Long: 36.550598 - 107.969543

1. Comply to all NMOCD, 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" tbg & lay down. TIH w/4-3/4" bit on 2-3/8" rental tbg & C.O w/air/mist to new TD 2270'. Load hole w/1% KCL water. TOH.
3. MI Blue Jet. Run an advanced integrated data processing GSL neutron log 2270'-1800' & coorelate to open hole log.
4. Run 3-1/2"-OD 9.2# J-55 NUE tbg to TD 2270' w/Omega type latching collar above 2' tbg sub w/notched collar on bottom. Cement w/250sx 50-50 CI"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 150' 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	(752)	(226)	0
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# GVV-3 (Enzyme Breaker mix on fly)

DOUTHIT #4 PC - CEMENT 3-1/2" CSG, PERF PC, & FRAC

- * 1.0# B - 5 (Breaker mix on fly)
 - * 3.0 gal Fracfoam I (Foamer mix on fly)
 - * 0.38# FracCide 20 (Bactericide 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 2268'. Monitor gas & water returns & take pitot gauges when possible.
11. When wellbore is sufficiently clean, TOH & run after frac gamma-ray log from 2268'-1300'.
12. TIH w/1-1/4" IJ tbg w/standard seating nipple one joint off bottom & again cleanout to 2268'. Use expendable check if necessary. When wellbore is sufficiently clean, land tbg @ 2100' KB. Take final water & gas samples & rates.
13. ND BOP & NU wellhead & tree. Rig down & release rig.

Approve: _____
Drilling Superintendent

VENDORS:

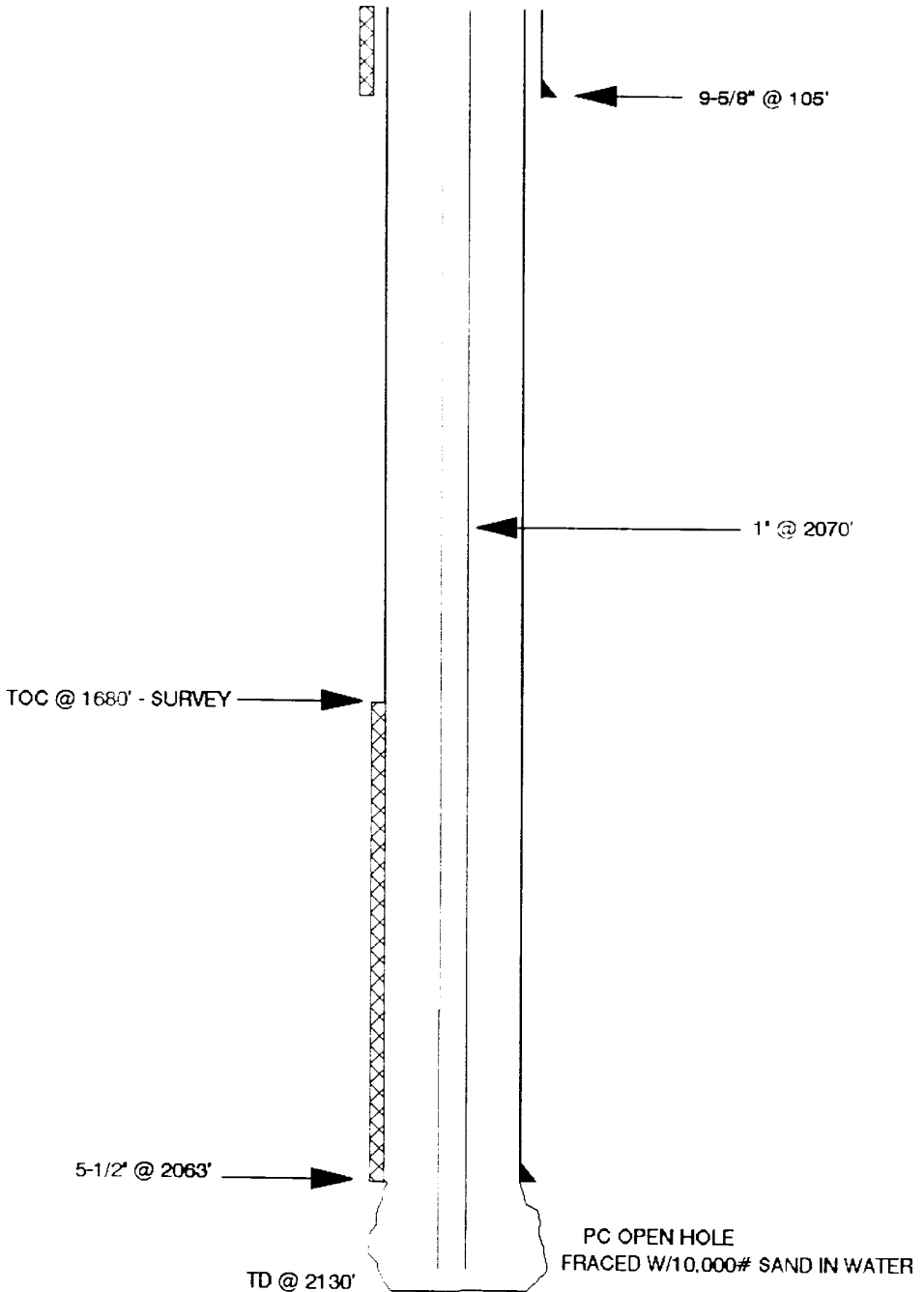
Logging:	Blue Jet	325-5584
Perfing	Basin	327-5244
Fracturing:	Howco	325-3575
RA Tag:	Pro-Technics	326-7133
Csg Equip:	Howco	325-3575
Cmt	Howco	325-3575

PMP

DOUTHIT #4 PC

UNIT 8 SECTION 26 T27N R11W
SAN JUAN COUNTY, NEW MEXICO

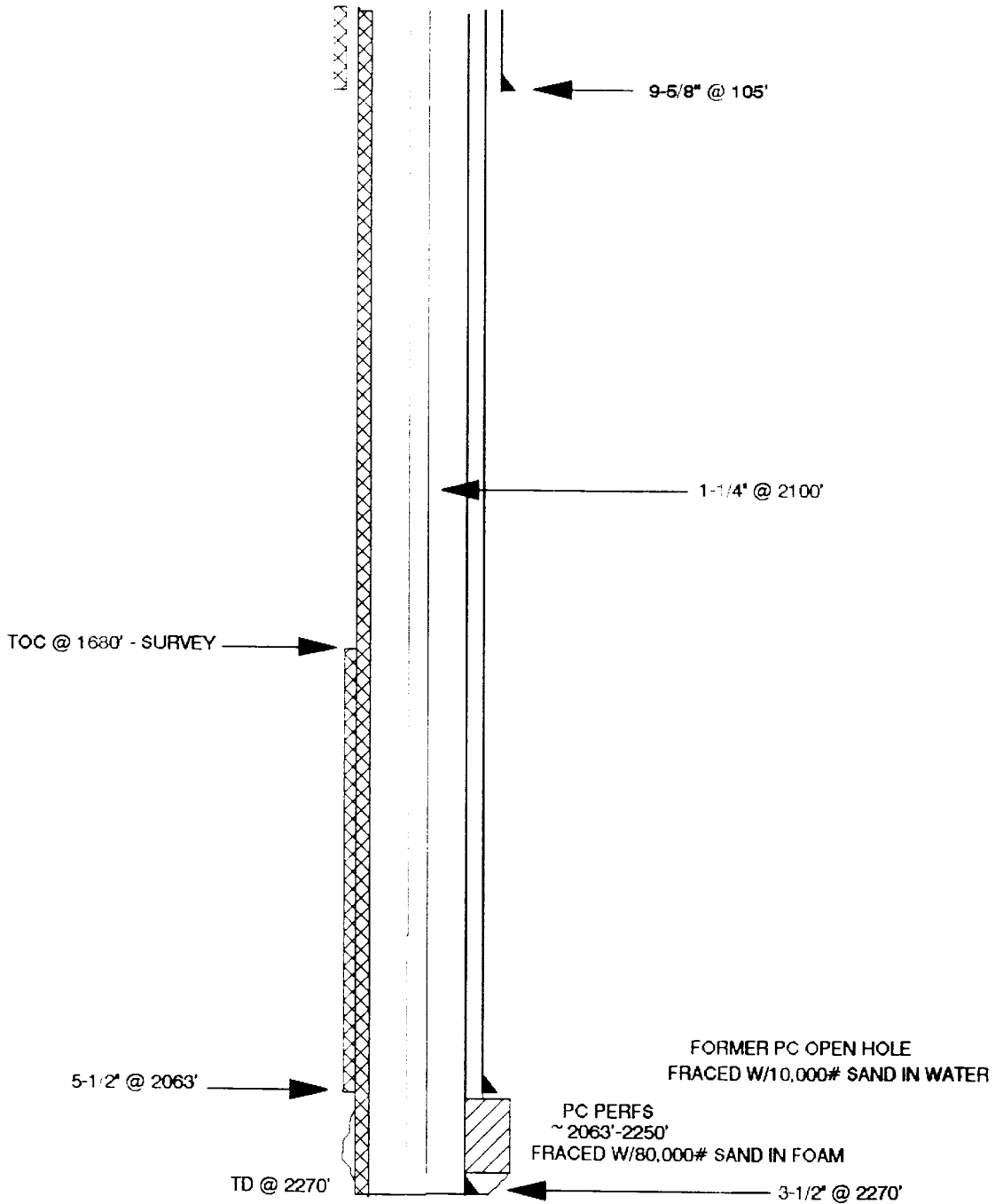
PRESENT



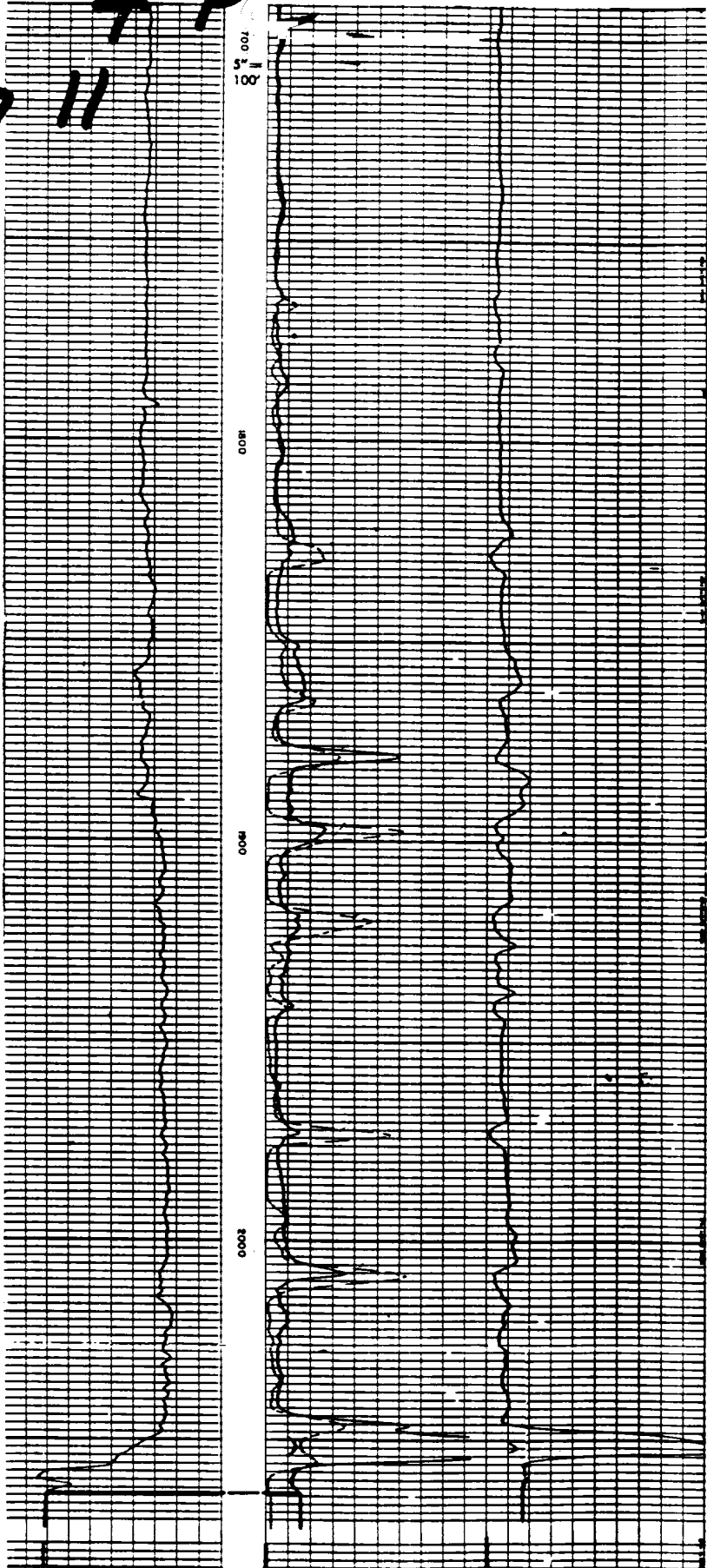
DOUTHIT #4 PC

UNIT B SECTION 26 T27N R11W
SAN JUAN COUNTY, NEW MEXICO

PROPOSED



DOUTHIT #4 P
 B 26 27 11



Pertinent Data Sheet - DOUTHIT #4 PC

Location: 990' FNL & 1700' FEL, Unit B. Section 26, T27N, R11W. San Juan County, New Mexico

Field: West Kutz PC

Elevation: 6447' GL
6' KB

TD: 2130'
PBTD: 2130'

Completed: 12/28/55

Spud Date: 12/6/55

DP #: 17504A
Lease: Fed: SF 078092
GWl: 50%
NRI: 43.25%
Prop#: 071183600

Initial Potential: Initial Potential = 5,250 MCF/D. SICP=395 psi

Casing Record:

<u>Hole Size</u>	<u>Csq Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cement (Top)</u>
13-3/4"	9-5/8"	32.3# H-40	105'	100 sx.	N/A
e7-7/8"	5-1/2"	14# J-55	2063'	75 sx.	1680' - Survey

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>
1	N/A	2070'

Formation Tops:

Ojo Alamo	1004'
Kirtland Shale:	1110'
Fruitland:	1763
Pictured Cliffs:	2058'

Logging Record: E-Log

Stimulation: Fraced open hole w/10,000# sand in water.

Workover History: None

Production history: PC 1st delivered 5/56. Current PC capacity is 0 MCF/D. PC cum is 2435 MMCF..

Pipeline: SUG

DOUTH IT #1

~~26~~ 27 11

OFF SE

TO:

DOUTH = 4 PC

B 26 27 11

