

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
OCT 11 1995  
OCS FARMINGTON, NM

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 37499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M  
1150' FSL, 850' FEL, Sec.27, T-27-N, R-10-W, NMPM

- 5. Lease Number  
SF-077951A
- 6. If Indian, All. or Tribe Name
- 7. Unit Agreement Name
- 8. Well Name & Number  
Frost #2
- 9. API Well No.  
30-045-06219
- 10. Field and Pool  
Fulcher 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"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input checked="" type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other - Stimulate
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Conversion to Injection

13. Describe Proposed or Completed Operations

It is intended to drill to a new TD of 2450', 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 - 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  
[Signature]  
DISTRICT MANAGER



FROST #2 PC  
Workover Procedure  
P 27 27 10  
San Juan County, N.M.  
Lat-Long: 36.541916 - 107.876221

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" work string & C.O. w/air/mist to new TD 2450'. Load hole w/1% KCL water. TOH.
3. MI Blue Jet. Run an advanced integrated data processing GSL neutron log 2450'-2000'.
4. Run 3-1/2"-OD 9.2# J-55 NUE tbg to TD 2450' w/Omega type latching collar above 2' tbg sub w/notched collar on bottom. Cement w/250sx 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 14 holes over 100' 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:

<b>Stage</b>	<b>Foam Vol. (Gals.)</b>	<b>Gel Vol. (Gals.)</b>	<b>Sand Vol. (lbs.)</b>
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	( 840)	(252)	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# GVW-3 (Enzyme Breaker mix on fly)
- \* 1.0# B - 5 (Breaker mix on fly)



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

- \* 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 2448'. Monitor gas & water returns & take pitot gauges when possible.
11. When wellbore is sufficiently clean, TOH & run after frac gamma-ray log from 2448'-2000'.
12. TIH w/1-1/4" IJ tbg w/standard seating nipple one joint off bottom & again cleanout to 2448'. Use expendable check if necessary. When wellbore is sufficiently clean, land tbg @ 2330' 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

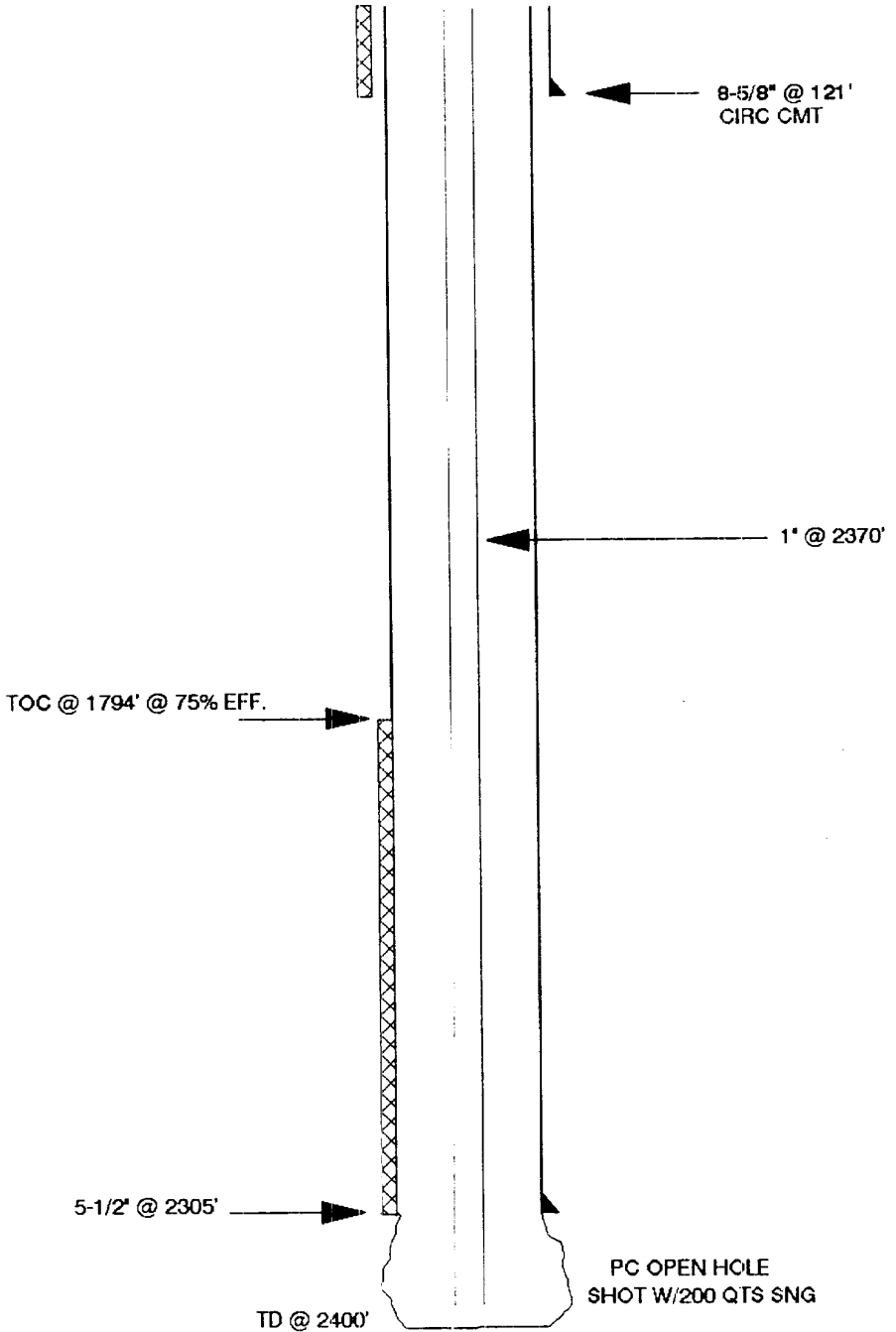
PMP



# FROST #2 PC

UNIT P SECTION 27 T27N R10W  
SAN JUAN COUNTY, NEW MEXICO

PRESENT



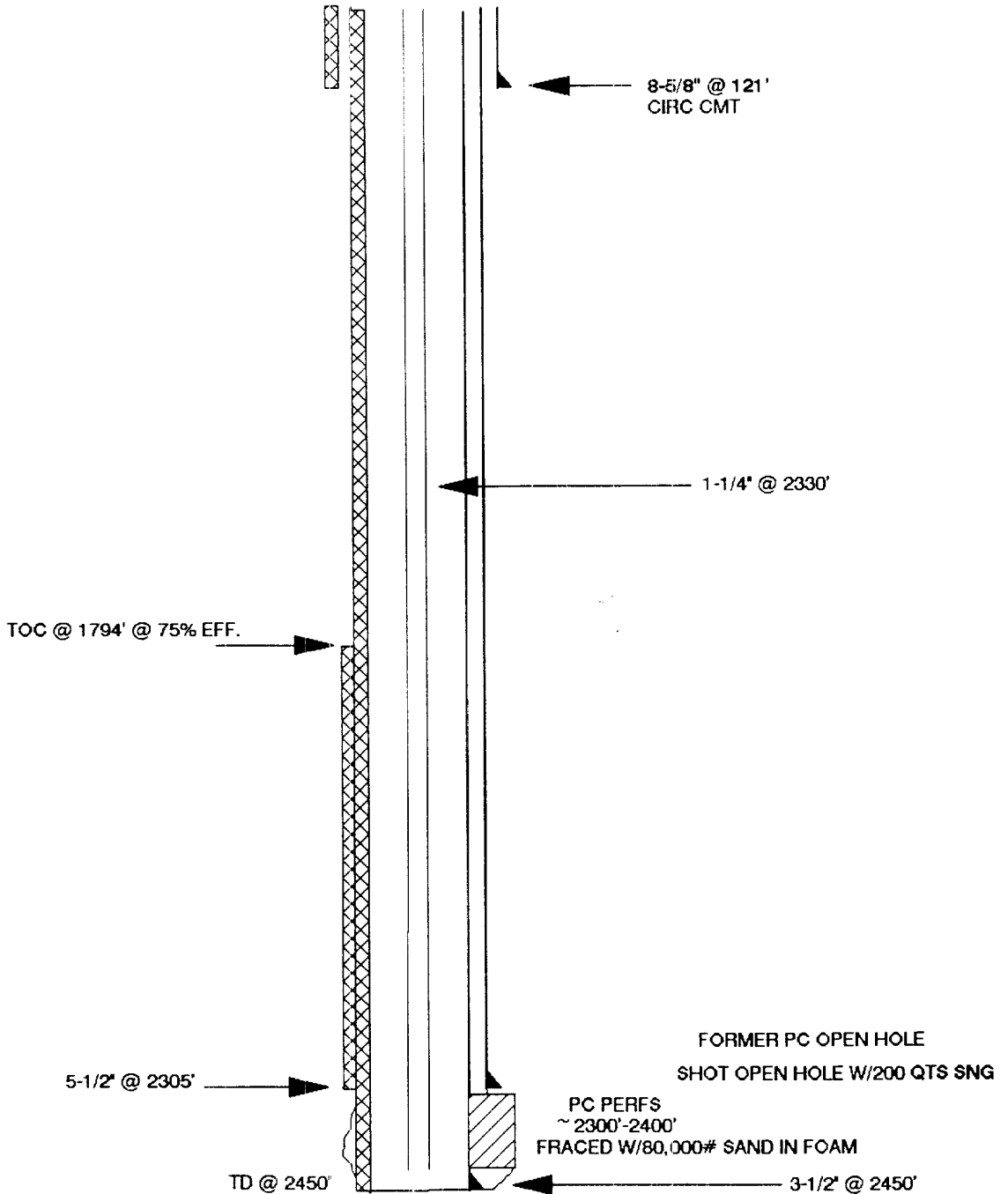




# FROST #2 PC

UNIT P SECTION 27 T27N R10W  
SAN JUAN COUNTY, NEW MEXICO

PROPOSED





**Pertinent Data Sheet - FROST #2 PC**

**Location:** 1150' FSL & 850' FEL, Unit P, Section 27, T27N, R10W, San Juan County, New Mexico

**Field:** Fulcher-Kutz PC

**Elevation:** 6550' GL  
6' KB

**TD:** 2400'  
**PBTD:** 2400'

**Completed:** 12/29/51

**Spud Date:** 12/18/51

**DP #:** 50855A  
**Lease:** Fed: SF 077951  
**GWl:** 100%  
**NRI:** 86.50%  
**Prop#:** 012569100

**Initial Potential:** Initial Potential = 62 MCF/D, SICP=479 psi

**Casing Record:**

<u>Hole Size</u>	<u>Csq Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cement (Top)</u>
12-1/4"	8-5/8"	38# J-55	121'	60 sx.	Circ Cmt
7-7/8"	5-9/16"	14.65# L.W. Line Pipe	2305'	100 sx.	1794' @ 75% Eff.

**Tubing Record:**

<u>Tbg. Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>
1"	1.68#	2370'

**Formation Tops:**

Ojo Alamo:	1260'
Kirtland Shale:	1440'
Fruitland:	2010'
Pictured Cliffs:	2300'

**Logging Record:** Induction

**Stimulation:** SOH w/200 qts SNG. Had csg gauge problems during clean-up.

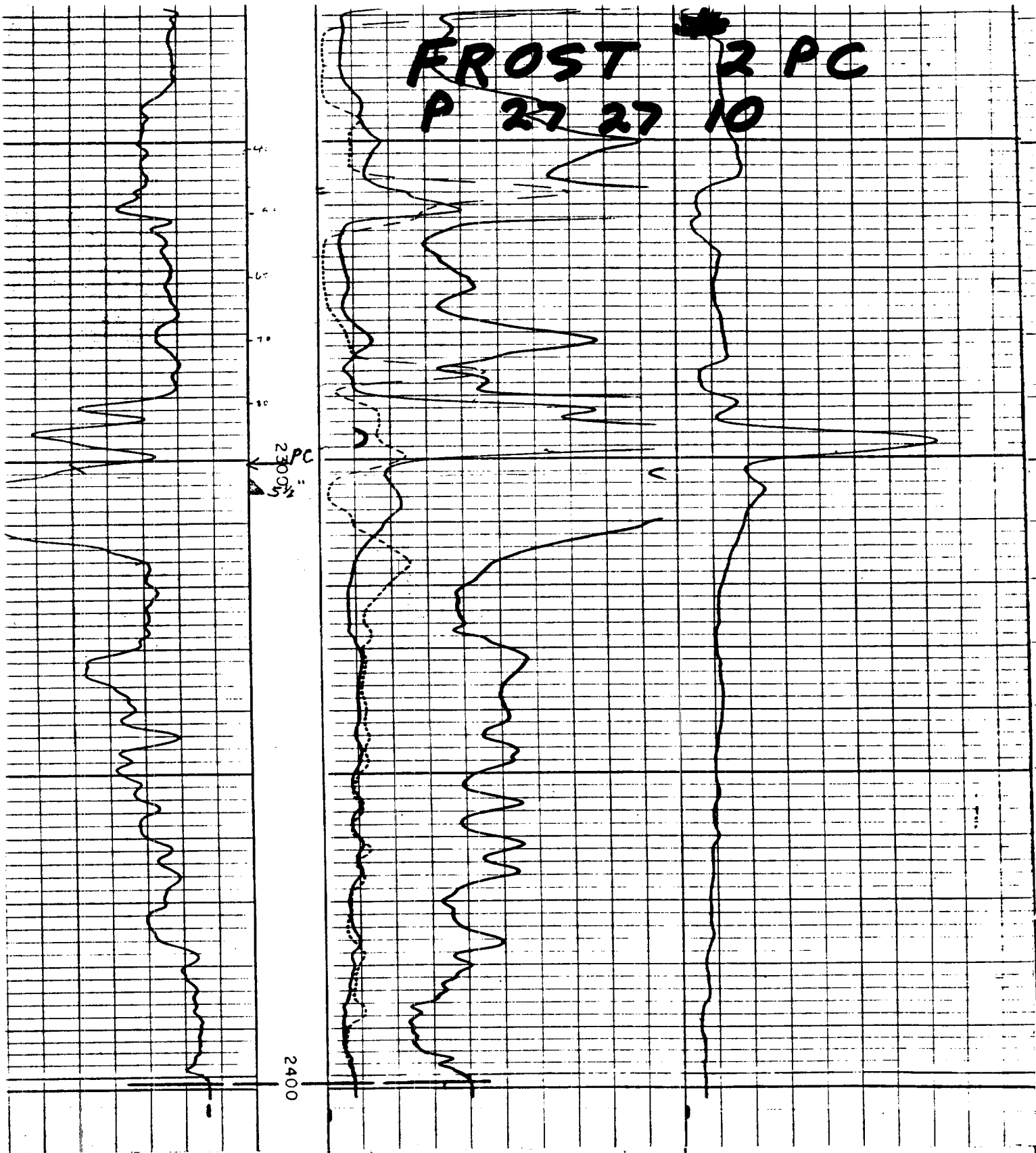
**Workover History:** NONE

**Production history:** PC 1st delivered 1952. Current PC capacity is 0 MCF/D. PC cum is 159 MMCF..

**Pipeline:** EPNG



FROST 2 PC  
 P 27 27 10



F.R.  
 2399

	NORMAL	1000	LONG NORMAL	100
0		10000		1000
0	LATERAL	100		
0		1000		
0	AMPLIFIED NORMAL	20		

