

State of New Mexico  
Energy, Minerals and Natural Resources Department  
Oil Conservation Division

Sundry Notices and Reports on Wells

<p>1. Type of Well GAS</p> <hr/> <p>2. Name of Operator <b>MERIDIAN OIL</b></p> <hr/> <p>3. Address &amp; 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 1650' FSL, 990' FEL, Sec. 36, T-27-N, R-8-W, NMPM, San Juan County</p>	<p>API # (assigned by OCD) 3C-045-06123</p> <p>5. Lease Number</p> <p>6. State Oil &amp; Gas Lease # E-3148-20</p> <p>7. Lease Name/Unit Name Brookhaven Com E</p> <p>8. Well No. 6</p> <p>9. Pool Name or Wildcat Sc Blanco Pictured Cliff</p> <p>10. Elevation: 6028 GR</p>
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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 squeeze casing leak, fish junk, run and cement 3 1/2" casing to new total depth. The well will then be perforated and fracture treated according to the attached procedure and wellbore diagram.

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

SIGNATURE *[Signature]* (PMP1) Regulatory Administrator September 29, 1995

(This space for State Use)  
Approved by *[Signature]* Title DEPUTY OIL & GAS INSPECTOR, DIST. 43 Date OCT - 2 1995

BROOKHAVEN COM E #6 PC  
Workover Procedure  
I 36 27 8  
San Juan County, N.M.  
Lat-Long: 36.526779 - 107.628494

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/2-7/8" tbg & 5-1/2" PKR. TIH w/5-1/2" ret BP - pkr combo on 2-7/8" tbg & locate csg leak. Set ret BP 100' below csg leak & top w/1 sx sand. W/ pkr 200' above csg leak, sq w/cmt as required. Attempt to circ out bradenhead valve. Max pressure is 1500 psi. Release pkr, reverse out cmt, & repressure. WOC. TOH w/tbg & pkr.
  3. TIH w/4-3/4" bit on 2-7/8" tbg & drill & C.O. cmt w/water. TOH. TIH w/retrieving head on 2-7/8" tbg & retrieve BP & TOH.
  4. (Assume 31' fish w/3-1/2" looking up @ 2125'). Run impression block to locate & size top of fish. Run 4-1/2" wash pipe on 2-7/8" tbg & wash over fish. Continue fishing operations for 2 full days. If fishing is unsuccessful, run cmt ret on 2-7/8" tbg, set @ 2120', sq PC open hole w/ ONLY 10 sx CI "B" cmt. Cut window in 5-1/2" csg & drill w/air/mist to new TD 2280'. Load hole w/1% KCL water. TOH lay down.
  5. If fishing is successful, TIH w/4-3/4" bit on 2-7/8" tbg & C.O. w/air/mist to new TD 2280'. Load hole w/1% KCL water. TOH lay down.
  6. MI Blue Jet. Run an advanced integrated data processing GSL neutron log 2280'-1800' & coorelate to 5-1/2" shoe @ 2140'.
  7. Run 3-1/2"-OD 9.2# J-55 NUE tbg to TD 2280' w/Omega type latching collar above 2' tbg sub w/notched collar on bottom. Space out using tbg subs & install 3-1/2" csg in new csg spool. Cement w/160sx 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. Install 6000 psi rental frac valve on 3-1/2" csg.
  8. 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
  9. Break down PC perfs down 3-1/2" csg w/2000 gal 15% HCL & 150% excess perf balls. Acidize @ 7 BPM w/max pressure = 6000 psi. Run junk basket to retrieve balls.
  10. 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.
  11. 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:
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<u>Stage</u>	<u>Foam Vol.</u> <u>(Gals.)</u>	<u>Gel Vol.</u> <u>(Gals.)</u>	<u>Sand Vol.</u> <u>(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	( 780)	(234)	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)
- \* 3.0 gal Fracfoam I (Foamer mix on fly)
- \* 0.38# FracCide 20 (Bacteriacide mix on full tank)

- 12. Open well through choke manifold & monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. Take pitot gauges when possible.
- 13. Change out frac valve w/tbg head. TIH w/notched collar on 1-1/4" IJ tbg & C.O. to 2278'. Monitor gas & water returns & take pitot gauges when possible.
- 14. When wellbore is sufficiently clean, TOH & run after frac gamma-ray log from 2278'-1800'.
- 15. TIH w/1-1/4" IJ tbg w/standard seating nipple one joint off bottom & again cleanout to 2278'. Use expendable check if necessary. When wellbore is sufficiently clean, land tbg @ 2180' KB. Take final water & gas samples & rates.
- 16. ND BOP & NU wellhead & tree. Rig down & release rig.

Approve: \_\_\_\_\_  
Drilling Superintendent

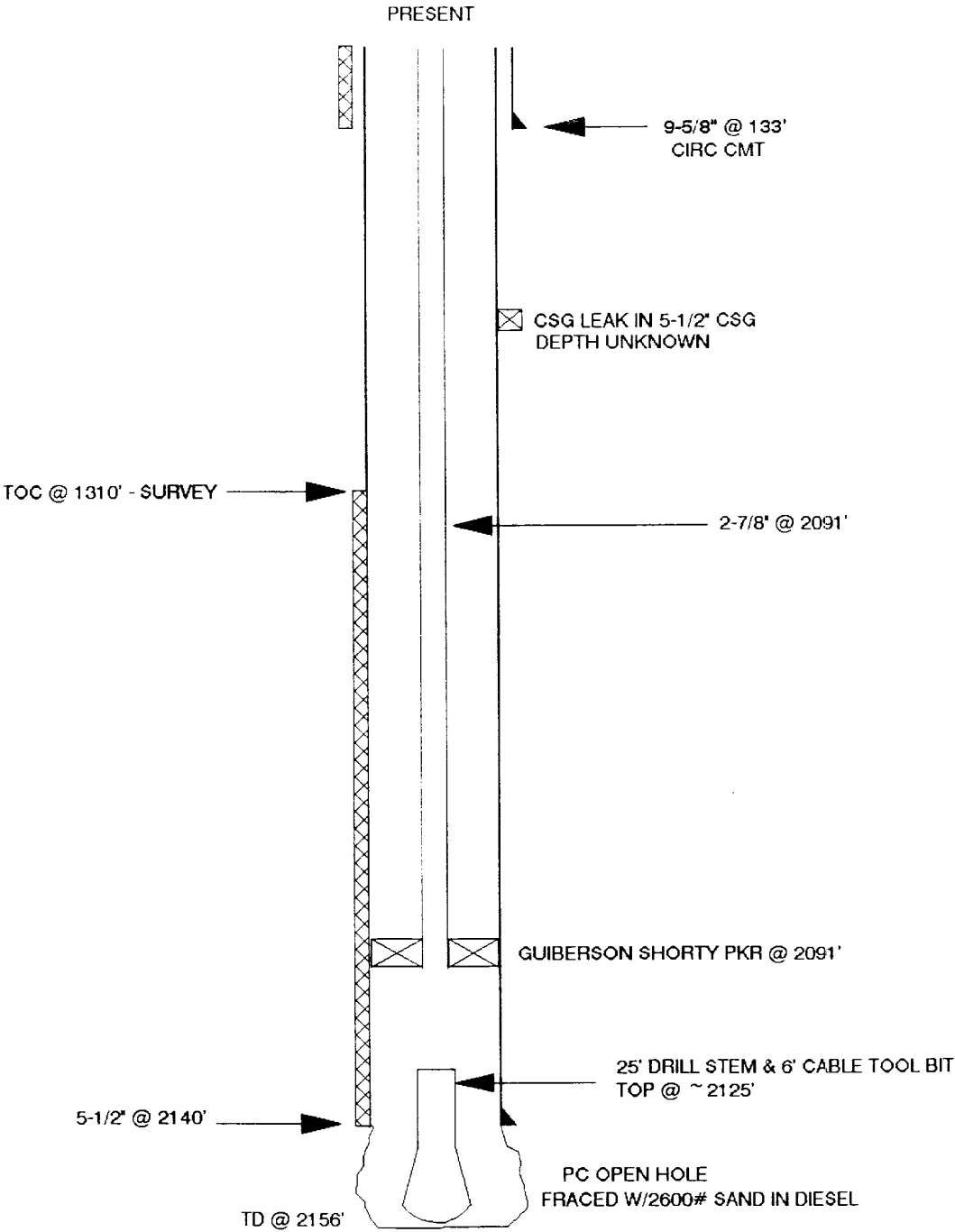
VENDORS:

Logging:	Blue Jet	325-5584
Perfing	Basin	327-5244
Fracturing:	BJ	327-6222
RA Tag:	Pro-Technics	326-7133
Csg Equip:	Howco	325-3575
Cmt	Howco	325-3575

PMP

# BROOKHAVEN COM E #6 PC

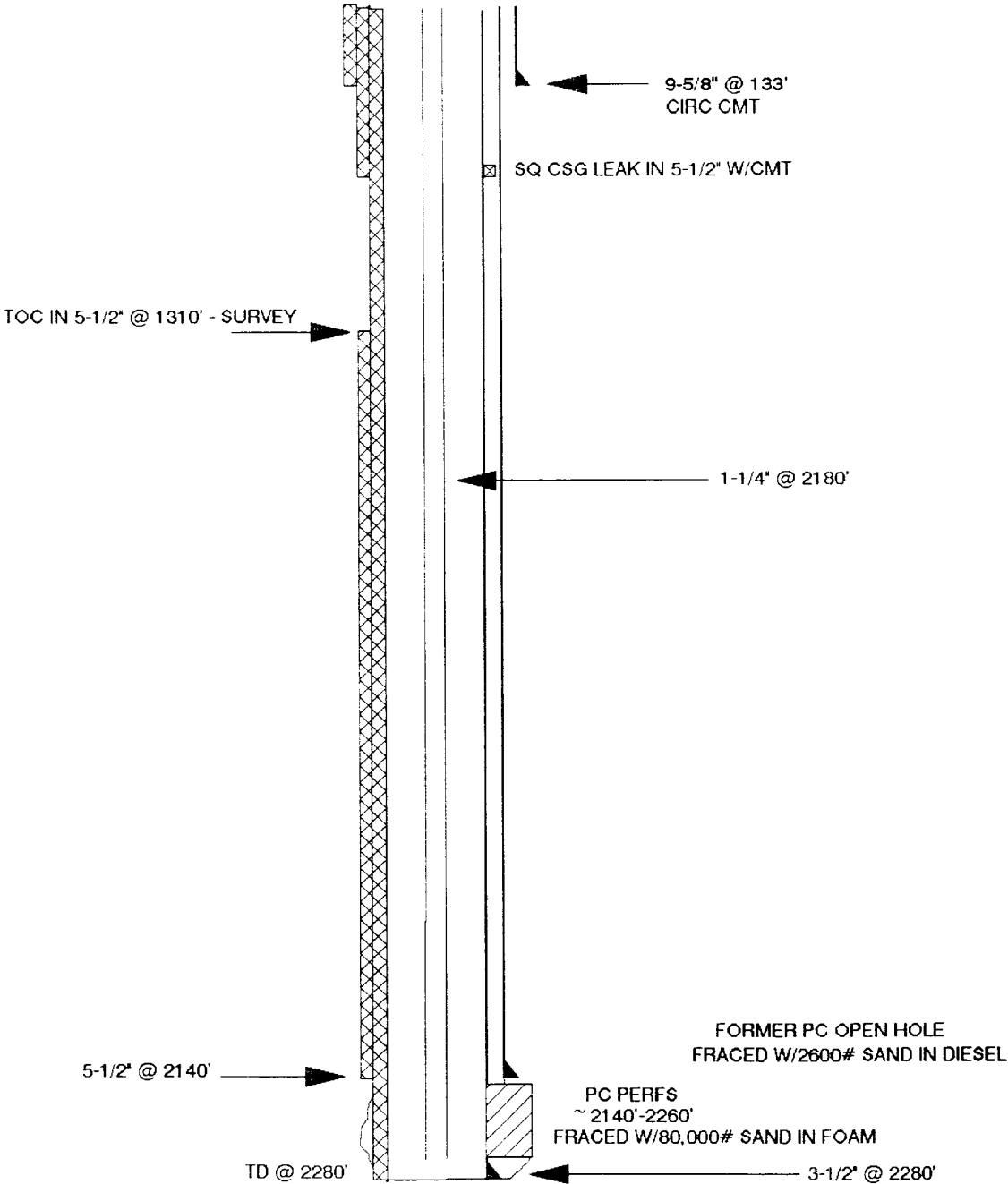
UNIT I SECTION 36 T27N R8W  
SAN JUAN COUNTY, NEW MEXICO



BROOKHAVEN COM E #6 PC

UNIT I SECTION 36 T27N R8W  
SAN JUAN COUNTY, NEW MEXICO

PROPOSED



**Pertinent Data Sheet - BROOKHAVEN COM E #6 PC**

**Location:** 1650' FSL & 990' FEL, Unit O, Section 36, T27N, R08W, San Juan County, New Mexico

**Field:** So. Blanco PC

**Elevation:** 6028' GL  
10' DF

**TD:** 2156'  
**PBTD:** 2156'

**Completed:** 12/9/53

**Spud Date:** 11/21/53

**DP #:** 48834A  
**Lease:** State: E-3148-2  
**GWl:** 83.16934%  
**NRI:** 69.778097%  
**Prop#:** 072009600

**Initial Potential:** AOF=7024 MCF/D, SICP=772 PSI

**Casing Record:**

<b><u>Hole Size</u></b>	<b><u>Csg Size</u></b>	<b><u>Wt. &amp; Grade</u></b>	<b><u>Depth Set</u></b>	<b><u>Cement</u></b>	<b><u>Cement (Top)</u></b>
13-3/4"	9-5/8"	25.4# Armco SW	133'	100 sx.	Circ Cmt
8-3/4"	5-1/2"	15.5# J-55	2140'	150 sx.	1310' - Survey

**Tubing Record:**

<b><u>Tbg. Size</u></b>	<b><u>Wt. &amp; Grade</u></b>	<b><u>Depth Set</u></b>	
2-7/8"	6.5# J-55	2091'	68 jts
	Guiberson Shorty PKR @	2091'	

**Formation Tops:**

Ojo Alamo:	855'
Kirtland Shale:	1455'
Fruitland:	1920
Pictured Cliffs:	2137'

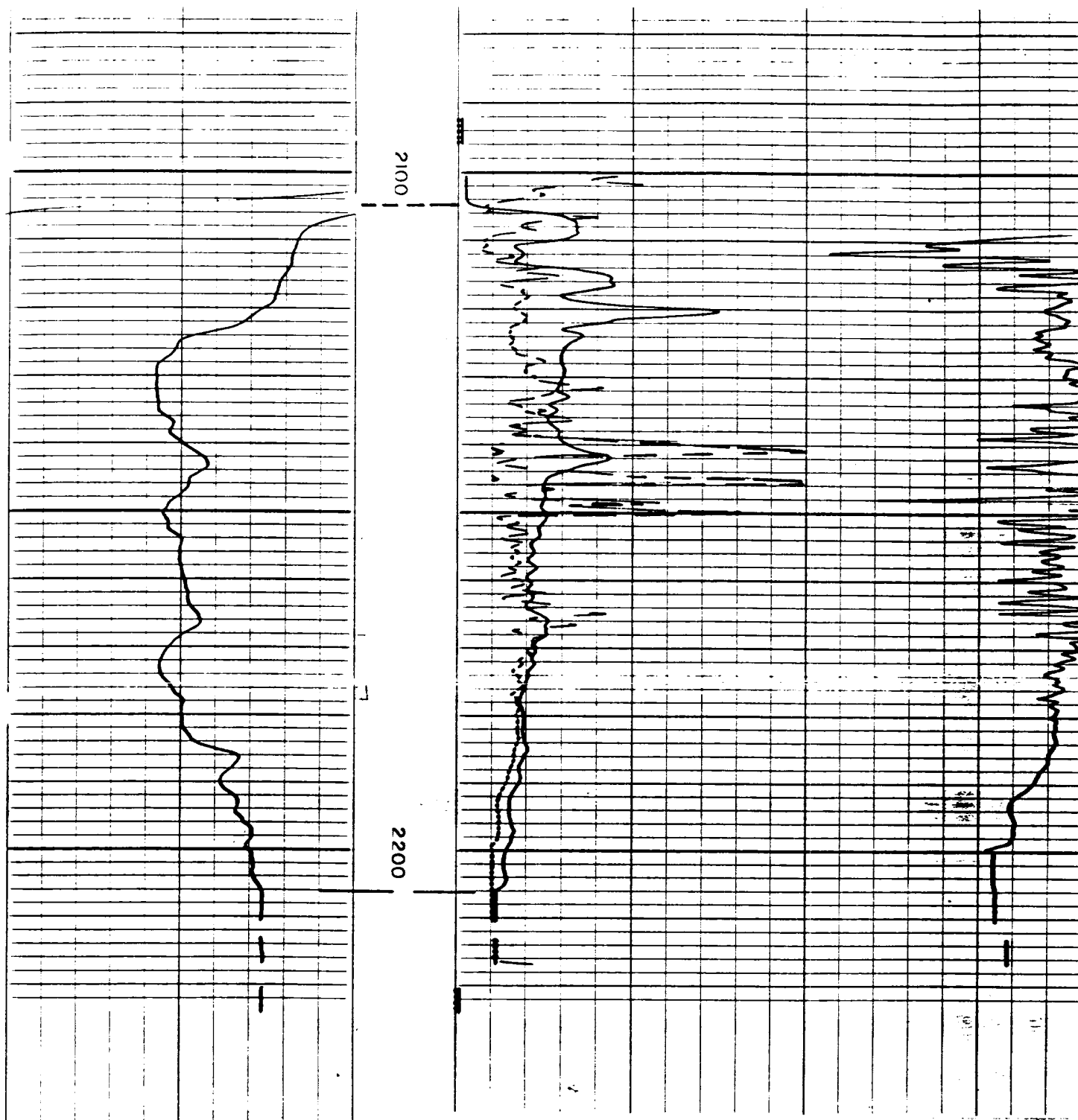
**Logging Record:** E-Log to 5-1/2" shoe

**Stimulation:** Left 25' drill stem & 6' cable tool bit in hole. Bit is most likely @ TD2156' w/top of fish (most likely 3-1/2") @ 2125'. Fraced open hole w/2600# sand in diesel.

**Workover History:** 12/5/92: TOH w/1" tbg. Installed 5-1/2" Larkin csg head. Ran 4-3/4" bit & csg scrapper to 2122'. Set 5-1/2" Guiberson shorty PKR @ 2091' on 2-7/8" tbg. Swabbed well.

**Production history:** 1st delivered 1954. Current Capacity is 10 MCF/D. Cum is 3208 MMCF..

**Pipeline:** EPNG



BURROWS COM #1 PC  
N 36 27 8  
OFFSET TO:  
BROOKHAVEN COM E #6 PC  
I 36 27 8