

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM MAIL ROOM

Sundry Notices and Reports on Wells

95 OCT 23 PM 3:30

070 FARMINGTON, NM

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
890' FNL, 1636' FEL, Sec. 21, T-27-N, R-9-W, NMPM

- 5. Lease Number
NM-011393
- 6. If Indian, All. or
Tribe Name
- 7. Unit Agreement Name
- 8. Well Name & Number
Cleveland #6
- 9. API Well No.
30-045-06405
- 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"/> 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 - Restimulate	

13. Describe Proposed or Completed Operations

It is intended to run and cement 3 1/2" casing, perforate and fracture treat the Pictured Cliffs zone in the subject well according to the attached procedure and wellbore diagram.

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

Signed [Signature] (PMP1) Title Regulatory Administrator Date 10/19/95

(This space for Federal or State Office use)
APPROVED BY _____ Title _____ Date _____
CONDITION OF APPROVAL, if any:

APPROVED

OCT 25 1995

DISTRICT MANAGER

NMOCD

CLEVELAND #6 PC
 Workover Procedure
 B 21 27 9
 San Juan County, N.M.
 Lat-Long: 36.565094 - 107.789825

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/2-3/8" tbg & 5-1/2" PKR.
3. TIH w/4-3/4" bit on tested 2-3/8" tbg & C.O. w/air/mist to new TD 2280'. Load hole w/1% KCL water. TOH lay down.
4. MI Blue Jet. Run an advanced integrated data processing GSL neutron log 2280'-1800' & coorelate to 5-1/2" shoe @ 2129'.
5. 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 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. Install 6000 psi rental frac valve on 3-1/2" csg.
6. 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
7. 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.
8. 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.
9. 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:

Stage	Foam Vol. (Gals.)	Gel Vol. (Gals.)	Sand Vol. (lbs.)
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>(780)</u>	<u>(234)</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)

CLEVELAND #6 PC - CEMENT 3-1/2" CSG, PERF PC, & FRAC

- * 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)

10. Open well through choke manifold & monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. **Take pitot gauges when possible.**
11. 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.**
12. When wellbore is sufficiently clean, TOH & run after frac gamma-ray log from 2278'-1800'.
13. 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 @ 2150' KB. **Take final water & gas samples & rates.**
14. 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

Pertinent Data Sheet - CLEVELAND #6 PC

Location: 990' FNL & 1636' FEL, Unit B. Section 21, T27N. R09W. San Juan County, New Mexico

Field: Fulcher Kutz PC

Elevation: 6211' GL
N/A

TD: 2195'
PBTD: 2195'

Completed: 8/23/55

Spud Date: 7/21/55

DP #: 49325A
Lease: Fed: 011393
GWl: 100%
NRI: 85%
Prop#: 012632900

Initial Potential: AOF=1788 MCF/D. SICP=604 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>
e12-1/4"	9-5/8"	24# J-55	100'	80 sx.	Circ Cmt
e7-7/8"	5-1/2"	14#	2129'	100 sx.	1618' @ 75% EFF.

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	
2-3/8"	4.7# J-55	2176'	73 jts
	Production PKR @	1012'	

Formation Tops:

Ojo Alamo:	810'
Kirtland Shale:	930'
Fruitland:	1740
Pictured Cliffs:	2116'

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

Stimulation: Attempted to frac. Discovered csg leak @ 263'. Spotted calseal plug 334'-296'. Perf 2 sq holes @ 384' & sq w/200 sx cmt. Resq w/200 sx cmt. Resq w/70 sx cmt. Resq w/130 sx cmt. Ran 2-3/8" tbg & pkr. Completed well natural.

Workover History: NONE

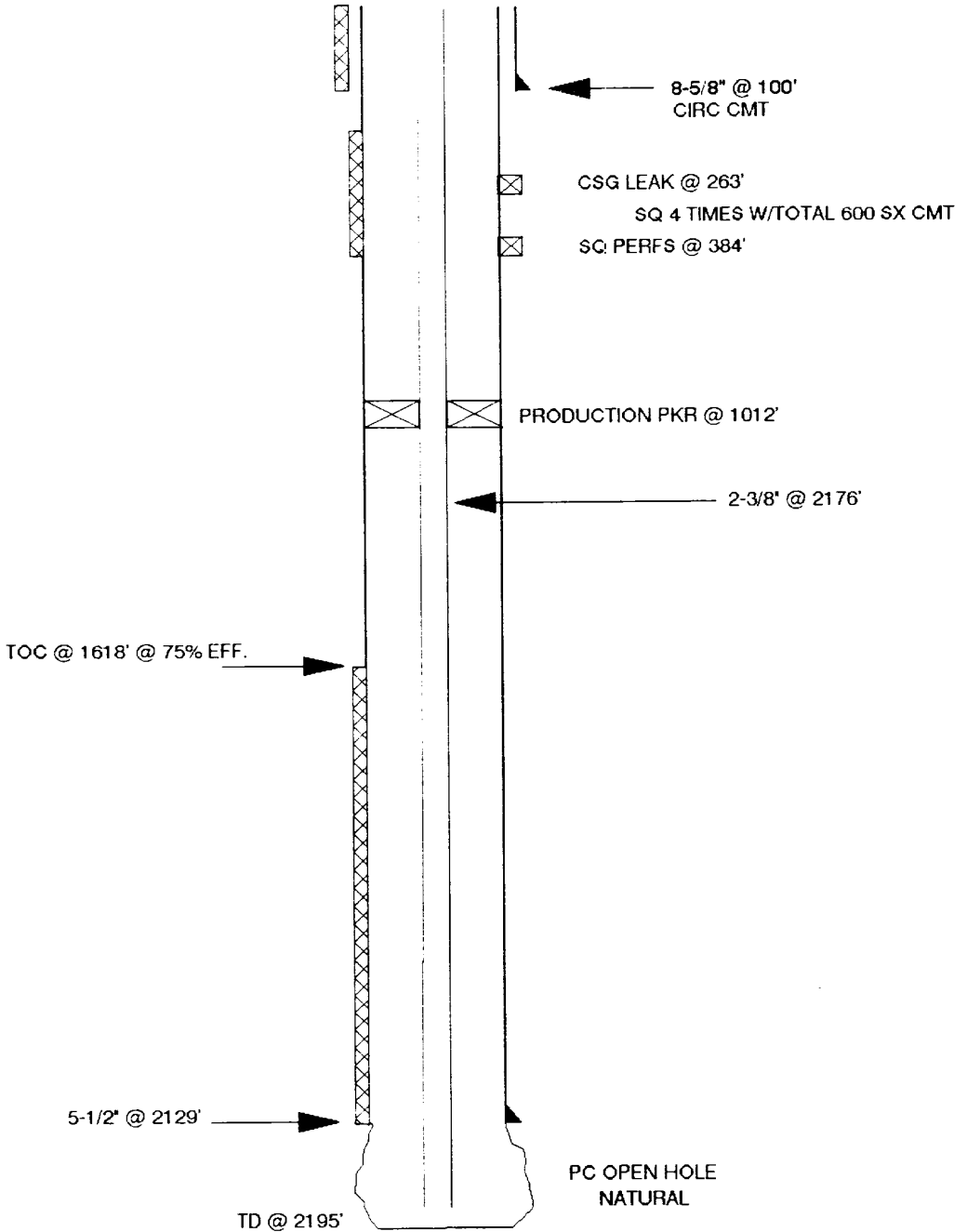
Production history: 1st delivered 1955. Current Capacity is 13 MCF/D. Cum is 467 MMCF..

Pipeline: EPNG

CLEVELAND #6 PC

UNIT B SECTION 21 T27N R9W
SAN JUAN COUNTY, NEW MEXICO

PRESENT



STATE #1

~~K-16~~ 279

OFFSET TO:

CLEVELAND #6 PC

~~S-21~~ 279

1900

2000

2100

2200

2300

2152 (+4086)

