

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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
1650'FNL, 790'FWL, Sec.15, T-26-N, R-9-W, NMPM

5. Lease Number
SP-03154
6. ~~ff~~ Indian, All. or
Tribe Name
7. Unit Agreement Name
8. Well Name & Number
Ballard #7
9. API Well No.
30-045-05863
10. Field and Pool
Ballard Pictured Cliffs
11. County and State
San Juan Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment

Type of Action

☐ Abandonment ☐ Change of Plans
☐ Recompletion ☐ New Construction
☐ Plugging Back ☐ Non-Routine Fracturing
☐ Casing Repair ☐ Water Shut off
☒ Altering Casing ☐ Conversion to Injection
☒ Other - Stimulate

13. Describe Proposed or Completed Operations

It is intended to run casing, cement casing to surface, perf and fracture treat this Pictured Cliffs open hole completion per the attached procedure and wellbore diagram.

RECEIVED
MAR 20 1995

OIL CON. DIV.
DIST. 3

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

Signed [Signature] (PMP1) Title Regulatory Affairs Date 3/9/95

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any:

Date **APPROVED**

MAR 15 1995

[Signature]
DISTRICT MANAGER

NMOCD

BALLARD #7 PC
Pictured Cliffs Refrac
E 15 26 9
San Juan County, N.M.

1. Comply to all NMOCDC, BLM, & MOI rules & regulations. MOL and RU completion rig. NU 6" 900 series BOP W/offset rams, flow tee and stripping head. NU blooie line and 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 TD 2060'. TOH.
3. Load hole w/500 gal 1% KCL water. Run an advanced integrated data processing GSL neutron log 2060'-1700. Correlate log to open hole Electric log.
4. Run 3-1/2"-OD 9.2# J-55 NUE tbg to TD 2060' w/Omega type locking collar & Texas guide shoe on bottom. Cement w/100 sx 50-50 Cl "B" POZ w/2% gel & 6-1/2#/sx kolite and 10% salt and 2% CaCl. (Yield=1.44 cf/sx). After cmt, run 2 wiper balls & Omega wiper latching plug, followed by 100 gal 7-1/2% HCL acid. Space out using tbg subs & install 3-1/2" csg in new csg spool. Install 5000 psi rental frac valve on 3-1/2" csg.
5. Role hole w/1% KCL water. Run GR-CCL & coorelate to neutron log. Perf about 50' of PC interval as per Production Engrineering Dept. Perf using 2-1/8" formed wire w/ 22 gr #307 Owen charges which make a 0.38" hole and have 20.73" of penetration.
6. Break down PC perfs down 3-1/2" csg w/2500 gal 15% HCL and 150% excess perf balls. Acidize @ 7 BPM w/ max pressure = 6000 psi. Run junk basket to retrieve balls.
7. Spot and fill 2 - 400 bbl. frac tanks with 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 240 bbls.
8. Frac Pictured Cliffs down 3-1/2" csg w/33,000 gals. of 70 quality foam using 30# gel as the base fluid & 60,000# 20/40 Arizona sand. Pump at 40 BPM. Monitor bottomhole and surface treating pressures, rate, foam quality, & sand concentration with computer van. Sand to be tagged with 0.4 mCi/1000# Ir-192 tracer. Max. pressure is 6000 psi and estimated treating pressure is 3000 psi. Treat per the following schedule:

BALLARD #7 PC - PC WORKOVER
Page 2

Stage	Foam Vol. (Gals.)	Gel Vol. (Gals.)	Sand Vol. (lbs.)
Pad	8,000	2,400	----
1.0 ppg	5,000	1,500	5,000
2.0 ppg	10,000	3,000	20,000
3.0 ppg	5,000	1,500	15,000
4.0 ppg	5,000	1,500	20,000
Flush	(712)	(214)	-----
Totals	33,000	9,900	60,000#

Treat frac fluid with the following additives per 1000 gallons:

- * 30# J-48 (Gel)
- * 1.0 gal. Aqua Flow (Non-ionic Surfactant)
- * 1.0# GVW3 (Enzyme Breaker)
- * 1.0# B-5 (Breaker)
- * 5.0 gal Fracfoam I (Foamer)
- * 0.38# FracCide 20 (Bacterialcide)

Shut well in after frac for six hours to allow the gel to break.

11. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. Take pitot gauges when possible.
12. Change out frac valve w/tbg head. TIH w/notched collar on 1-1/4" IJ tbg & C.O. to 2060'. Monitor gas and water returns and take pitot gauges when possible.
13. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 2060'-1700'.
14. TIH with 1-1/4" IJ tbg w/SN one jt above open ended bottom and again cleanout to 2060' (use expendable check, if necessary). When wellbore is sufficiently clean, land tbg at 1950'KB. Take final water and gas samples & rates.
15. Repair or replace any bad wellhead valves and connections. ND BOP and NU wellhead & tree. Rig down & release rig.

Approve: _____
Drilling Superintendent

VENDORS:

Wireline:	Blue Jet	325-5584
Frac & Cmt:	Howco	325-3575
RA Tagging:	Pro-Technics	326-7133

PMP

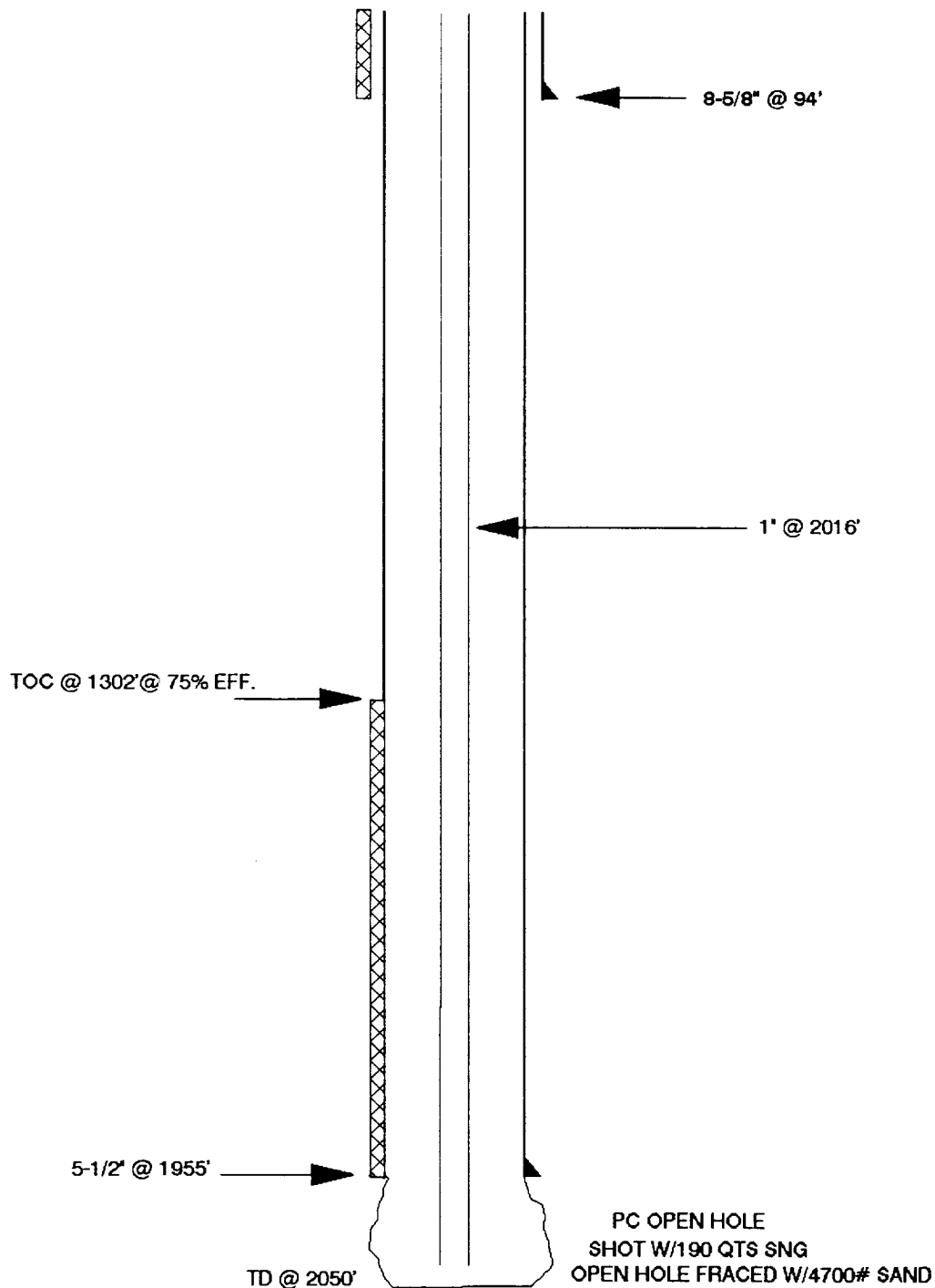
BALLARD #7 PC

UNIT E SECTION 15 T26N R9W
SAN JUAN COUNTY, NEW MEXICO

DATE: 01-03-14

CD: 01-03-14

PRESENT



Pertinent Data Sheet - BALLARD #7 PC

Location: 1650'FNL 790' FWL SEC. 15 T26N R09W, SAN JUAN COUNTY, N.M.

Field: Ballard Pictured Cliffs

Elevation: 6299' TD: 2050'
7'KB PBTD: 2050'

Prop#: 012633400

Lease: Federal SF-03154

DP#: 48966A

GWI: 100.00%

NRI: 64.183%

Completed: 5-6-54

Initial Potential:

Gauge: 816 MCF/D, SIP: 635 PSI

Casing Record:

<u>Hole Size</u>	<u>Csq. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cmt</u>
13-3/4"	8-5/8"	32# H-40	94'	100 sx	N/A
7-7/8"	5-1/2"	17# N/A	1955'	128 sx	1302'@ 75% EFF.

Tubing Record: 1" 1.7# 2016'

Formation Tops:

Ojo Alamo	1135'
Kirtland	1235'
Fruitland	1714'
Pictured Cliffs	1954'

Logging Record: Electric Log, Microlog

Stimulation: Shot Open Hole @ 1962'-2037'w/190 QTS SNG.
Open Hole Fraced w/4,700# sand in oil.

Workover History: NONE

Production History: PC cumulative =1,542 MMCF. Current Capacity= 50 MCF/D.

Pipeline: EPNG

PMP