

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

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  
1400'FNL, 1400'FEL, Sec.32, T-26-N, R-8-W, NMPM, San Juan County

API # (assigned by OCD)  
30-045-05628  
5. Lease Number  
E-8248-2  
6. State Oil&Gas Lease #  
E-8248-2  
7. Lease Name/Unit Name  
State A Com  
8. Well No.  
2  
9. Pool Name or Wildcat  
Ballard Pictured Cliffs  
10. Elevation: 6462 GR

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

13. Describe Proposed or Completed Operations

REVISED

It is intended to squeeze cement behind the 5 1/2" casing, drill out, run 3 1/2" casing, cement to surface, perforate and fracture treat this Pictured Cliffs open hole completion per the attached procedure and wellbore diagram.

**RECEIVED**  
APR - 5 1995  
**OIL CON. DIV.**  
DIST. 3

SIGNATURE *[Signature]* (PMP1) Regulatory Affairs April 5, 1995

(This space for State Use)  
Approved by *[Signature]* Title DEPUTY OIL & GAS INSPECTOR, DIST. 3 Date APR - 6 1995

STATE A COM #2 PC  
Pictured Cliffs Refrac  
G 32 26 8  
San Juan County, N.M.

Revised 4/5/95

1. Comply to all NMOCED, 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. Set 5-1/2" retrievable BP @ 1300' on wireline & top w/2 sx sand.
3. Perf 2 sq holes @ 1145' (50' below top Ojo Alamo). Run 5-1/2" pkr on 2-3/8" work string & set @ 800'. Establish rate & sq w/22 sx cmt. This will cover 50' above and below the Ojo Alamo behind the 5-1/2" csg w/50% excess. If circ is obtained out bradenhead valve, continue pumping & circ cmt (about 168 sx).
4. If circ was not obtained, perf 2 sq holes @ 149' (50' below surface csg shoe) & circ cmt out bradenhead valve. WOC.
5. TIH w/4-3/4" bit on 2-3/8" tbg & drill & C.O. cmt to ret BP. TOH.
6. TIH w/retrieving head & retrieve RBP @ 1300'. TOH.  
  
TIH w/4-3/4" bit on 2-3/8" & C.O. w/air/mist to TD 2210'. TOH.
7. Load hole w/500 gal 1% KCL water. Run an advanced integrated data processing GSL neutron log 2210'-1700. Correlate log to open hole Electric logs from offset wells.
8. Run 3-1/2"-OD 9.2# J-55 NUE tbg to TD 2210' w/Omega type locking collar above 2' tbg sub w/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.
9. 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.

## STATE A COM #2 PC - PC WORKOVER

Page 2

10. 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.
11. 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.
12. 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:

<u>Stage</u>	<u>Foam Vol. (Gals.)</u>	<u>Gel Vol. (Gals.)</u>	<u>Sand Vol. (lbs.)</u>
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	<u>( 712 )</u>	<u>( 214 )</u>	<u>          </u>
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.

13. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. Take pitot gauges when possible.
14. Change out frac valve w/tbg head. TIH w/notched collar on 1-1/4" IJ tbg & C.O. to 2205'. Monitor gas and water returns and take pitot gauges when possible.
15. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 2205'-1700'.
16. TIH with 1-1/4" IJ tbg w/SN one jt above open ended bottom and again cleanout to 2205' (use expendable check, if necessary). When wellbore

STATE A COM #2 PC - PC WORKOVER  
Page 3

is sufficiently clean, land tbg at 2100'KB. Take final water and gas samples & rates.

17. 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

Pertinent Data Sheet - STATE A COM #2 PC

Location: 1400'FNL 1400' FEL SEC. 32 T26N R08W, SAN JUAN COUNTY, N.M.

Field: Ballard Pictured Cliffs

Elevation: 6462'      TD: 2200'

PBTD: 2200'

Prop#: 012657900

Lease: State E-8248

DP#: 50994A

GWI: 97.50%

NRI: 84.19%

Completed: 12-6-55

Initial Potential:

Gauge: 2122 MCF/D, SIP: 609 PSI

Casing Record:

<u>Hole Size</u>	<u>Csg. Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cmt</u>
12-3/4"	8-5/8"	24# J-55	99'	80 sx	N/A
7-7/8"	5-1/2"	14# J-55	2128'	100 sx	1617'@ 75% EFF.

Tubing Record:      1"      1.7#      2153'

Formation Tops:

Ojo Alamo	1095'	(Ernie Bush)
Pictured Cliffs	2123'	

Logging Record: No Logs in Section

Stimulation: Fraced Open Hole @ 2128'-2200'w/30,000# sand in oil.

Workover History: NONE

Production History: PC cumulative = 738 MMCF. Current Capacity= 27 MCF/D.

Pipeline: EPNG

PMP

# STATE A COM #2 PC

UNIT G SECTION 32 T26N R8W  
SAN JUAN COUNTY, NEW MEXICO

