

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

Sundry Notices and Reports on Wells

1. Type of Well GAS	API # (assigned by OCD) 30-045-24675
	5. Lease Number FEE
	6. State Oil&Gas Lease #
2. Name of Operator BURLINGTON RESOURCES OIL & GAS COMPANY	7. Lease Name/Unit Name Harper
	8. Well No. #3
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	9. Pool Name or Wildcat Aztec PC/Basin Frt Coa.
4. Location of Well, Footage, Sec., T, R, M 970' FSL, 1090' FEL, Sec. 14, T-31-N, R-12-W, NMPM, San Juan County, NM	10. Elevation: <i>6145 FRT SD</i>

Type of Submission	Type of Action	
<input checked="" type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other	

13. Describe Proposed or Completed Operations

It is intended to plug and abandon the subject well according to the attached procedure and wellbore diagram.

RECEIVED
MAR 16 1998
OIL CON. DIV.
DIST. 3

SIGNATURE *Don Stadler* Regulatory Administrator March 12, 1998

VKH

(This space for State Use)

Approved by *Johnny Robinson* Title DEPUTY OIL & GAS INSPECTOR, DIST. #3 Date MAR 16 1998

* As Noted on procedure

NOTIFY AZTEC OCD
IN TIME TO WITNESS *EFA*

PLUG AND ABANDONMENT PROCEDURE

11-3-97

Harper #3

Blanco Pictured Cliffs / Fruitland Coal
970' FSL and 1090 FEL / SE, Sec. 14, T31N, R12W
San Juan County, New Mexico

Note: All cement volumes use 100% excess outside pipe and 50' excess inside pipe. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures.

1. Install and test rig anchors. Prepare blow pit. Comply with all NMOC, BLM and Burlington safety rules and regulations.
2. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. NU relief line to blow well down; kill with water as necessary. ND wellhead and NU BOP and stripping head; test BOP.
3. Open bradenhead valve. Establish rate down the Fruitland 2-7/8" casing with 20 bbls water, record pump rate and pressure. Monitor bradenhead for flow. If no flow or blow then pump 4 frac balls in additional water and monitor pressure, rate and volumes pumped, to confirm perforations taking water and there is not a casing leak. If bradenhead flows water or there are other indications of a casing leak, then use 1-1/4" tubing to plug well. Repeat pump in procedure for the Pictured Cliffs 2-7/8" casing; monitor bradenhead. If either casing string has a leak, then spot or tag subsequent plugs as appropriate.
4. **Plug #1 (Pictured Cliffs perforations and Fruitland top, 2810' - 2162'):** With the Pictured Cliffs' casing, establish rate into Pictured Cliffs perforations with water. Mix and pump 50 sxs. Class B cement down 2-7/8" casing (20% excess), displace to 1300'. Shut in well and WOC. Rig up wireline and RIH and tag cement.
5. **Plug #2 (Fruitland perforations to surface, 2550' - Surface):** With the Fruitland's casing, establish rate into Fruitland Coal perforations with water. Mix and pump 84 sxs. Class B cement down 2-7/8" casing (20% excess); do not displace. Shut in well and WOC. Tag cement, fill as necessary.
6. **Plug #3 (Kirtland and Ojo Alamo tops, 1075' - 855'):** With the Pictured Cliffs' casing, pressure test to 500#. Perforate 2 squeeze holes at 1075'. Establish rate into squeeze holes. Mix 138 sxs. Class B cement and squeeze 122 sxs. outside 2-7/8" casing and leave 16 sxs. inside, displace to 500', to cover Kirtland and Ojo Alamo tops. * Tag cement @ 855'
7. **Plug #4 (Surface Casing at 139'):** With the Pictured Cliffs' casing, pressure test to 500#. Perforate 2 squeeze holes at 189'. Establish rate out bradenhead. Mix and pump approximately 61 sxs. Class cement inside casing from 189' to surface, circulate good cement out bradenhead. Shut well in and WOC.
8. ND BOP and cut off wellhead below surface casing flange. Install P&A marker with cement to comply with regulations. RD, MOL, cut off anchors and restore location.

Recommended: M.E. Gortey
Operations Engineer

Approval: W.S. F. 1/22
Drilling Superintendent

Harper #3

Proposed P & A

DPNO 27284 & 27285

Blanco Pictured Cliffs / Fruitland SS

SE Section 14, T-31-N, R-12-W, San Juan County, NM

Today's Date: 11-3-97

Spud: 2-19-81

Completed: 10-6-81

Elevation: 6178' (GL)

Logs: IES, GR-Density

Workovers: None

12-1/4" Hole

9-5/8" 32.3#, K-55, Csg set @ 139'
Cmt w/ 90 sxs (Circulated to Surface)

Perforate @ 189'

Plug #4 189' - Surface
Cmt with 61 sxs Class B

Ojo Alamo @ 905'

Kirtland @ 1025'

Plug #3 1075' - 855'
Cmt with 138 sxs Class B,
122 sxs outside casing
and 16 sxs inside (displace
to 500').

Perforate @ 1075'

TOC @ 1300' (TS)

Fruitland @ 2212'

Plug #2 2550' - Surface
Cmt with 84 sxs Class B,
(20% excess,
do not displace)

Fruitland SS Perforations:
2483' - 2550'

8-3/4" Hole
to 2650'

2-7/8" 6.4#, J-55, Csg Set @ 2637'
Cmt w/ 205 sxs

Pictured Cliffs @ 2660'

Pictured Cliffs Perforations:
2712' - 2810'

Plug #1 2810' - 2162'
Cmt with 50 sxs Class B,
(20% excess,
displace to 1300')

2-7/8" 6.4#, J-55, Csg Set @ 2909'
Cmt w/ 365 sxs

6-3/4" Hole

PBTD 2899'

TD 2920'

Harper #3

Current

DPNO 27284 & 27285

Blanco Pictured Cliffs / Fruitland SS

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Kirtland @ 1025'

TOC @ 1300' (TS)

Fruitland @ 2212'

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2483' - 2550'

8-3/4" Hole
to 2650'

2-7/8" 6.4#, J-55, Csg Set @ 2637'
Cmt w/ 205 sxs

Pictured Cliffs @ 2660'

Pictured Cliffs Perforations:
2712' - 2810'

6-3/4" Hole

2-7/8" 6.4#, J-55, Csg Set @ 2909'
Cmt w/ 365 sxs

PBTD 2899'

TD 2920'