

Submit 3 Copies To Appropriate District  
Office  
District I  
1625 N. French Dr , Hobbs, NM 88240  
District II  
1301 W. Grand Ave., Artesia, NM 88210  
District III  
1000 Rio Brazos Rd , Aztec, NM 87410  
District IV  
1220 S St. Francis Dr , Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-103  
May 27, 2004

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS )		WELL API NO. 30-0 <b>39-05238</b>
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Benson Montin Greer Drilling Company		6. State Oil & Gas Lease No. E 1207
3. Address of Operator 4900 College Boulevard, Farmington, NM 87402 505-325-8874		7. Lease Name or Unit Agreement Name NCRA State
4. Well Location Unit Letter <u>I</u> : <u>1816</u> feet from the <u>South</u> line and <u>990</u> feet from the <u>East</u> line Section <u>36</u> Township <u>24 N</u> Range <u>6W</u> NMPM Rio Arriba County		8. Well Number <u>6</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6829' GL		9. OGRID Number
Pit or Below-grade Tank Application <input checked="" type="checkbox"/> or Closure <input type="checkbox"/>		
Pit type <u>Lined</u> Depth to Groundwater <u>&gt;100</u> Distance from nearest fresh water well <u>&gt;1000</u> Distance from nearest surface water <u>&gt;1000</u>		
Pit Liner Thickness: <u>12 mil</u> Below-Grade Tank: Volume _____ bbls; Construction Material _____		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☒  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

① Operator proposes to plug and abandon this well per the attached procedure.

RCVD JUL31'07

OIL CONS. DIV.

DIST. 3

~~Operator requests approval to dig a work over pit to hold waste fluid during the plugging activities.~~

This pit will be 10' x 15' by 6' deep; lined with 12 mill poly film and fenced. Pit will be closed in accordance with NMOCD Regulations.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE ZACH STRADLING TITLE Engineer DATE 7/31/07

Type or print name ZACH STRADLING

E-mail address:

Telephone No. ext 5

For State Use Only

Deputy Oil & Gas Inspector,  
District #3

APPROVED

BY: H. Villanueva TITLE \_\_\_\_\_

DATE AUG 01 2007

Conditions of Approval (if any): He approves the P/A procedure.

Work over pit must be submitted on separate C-103

## PLUG AND ABANDONMENT PROCEDURE

July 30, 2007

### NCRA State #6

Ballard Pictured Cliffs

1816' FSL, 990' FEL, Section 36, T24N, R6W, Rio Arriba County, New Mexico

API 30-039-05238 / Lat: 36.26717 N / Long: 107.41382 W

Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be ASTM Type III, mixed at 14.8 ppg with a 1.32 cf/sx yield,

1. Project will require a Pit Permit (C103) from the NMOCD.
2. Prepare waste fluid holding pit. Comply with all NMOCD, BLM and BMG safety rules and regulations. Conduct safety meeting for all personnel on location. MOL and RU daylight pulling unit. NU relief line and blow well down; kill with water as necessary. ND wellhead and NU BOP and stripping head; test BOP.
3. TOH and tally 71 joints 1.25" tubing, total 2296'. If tubing is IJ or NU, then LD and PU a workstring. Round-trip 5.5" casing scraper or wireline gauge ring to 2250'.
4. **Plug #1 (Pictured Cliffs open hole interval and Fruitland and Kirtland tops, 2246' – 1865'):** TIH and set 5.5" CR at 2246'. Pressure test tubing to 1000#. Load casing with water and circulate well clean. Pressure test casing to 500#. *If the casing does not test, then spot or tag subsequent plugs as appropriate.* [Also if the casing does not test then increase the cement by 10 sxs cement to 55 sxs.] Mix 45 sxs Type III cement and spot a balanced plug inside the casing above the CR to isolate the Pictured Cliffs interval and cover the Fruitland and Kirtland tops. TOH with tubing.
5. **Plug #2 (Ojo Alamo top, 1760' – 1660'):** Perforate 3 squeeze holes at 1760'. Attempt to establish rate into squeeze holes if the casing pressure tested. Set 5.5" cement retainer at 1710'. Establish rate into squeeze holes. Mix and pump 43 sxs Type III cement, squeeze 27 sxs outside the casing and leave 16 sxs inside casing. TOH and LD tubing.
6. **Plug #3 (8.625" Surface casing shoe, 150' - Surface):** Perforate 3 squeeze holes at 150'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 45 sxs cement and pump down the 5.5" casing to circulate good cement out bradenhead. Shut in well and WOC.
7. ND BOP and cut off wellhead below surface casing flange. Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location per BLM stipulations.

# NCRA State #6 Current

Ballard Pictured Cliffs

1816' FSL & 990' FEL, Section 36, T-24-N, R-6-W, Rio Arriba County, NM

Lat: N 36.26717 / Long: W 107.41382 / API 30-039-05238

Today's Date: 7/30/07  
Spud: 3/4/56  
Comp: 7/26/56  
Elevation: 6829' GL

12.25" Hole

8.625" 24#, J-55 Casing set @ 100'  
Cement with 70 sxs, circulated to surface

## Well History

Feb '99: Cleaned out to 2311' TD in preparation to P&A well. Well starting making gas. Ran tubing to 2296' and put well back online.

Ojo Alamo @ 1710' \* est.

TOC @ 1782' (Calc, 75%)

Kirtland @ 1915' \* est.

1.25" Tubing set at 2296'  
(71 joints, connection not reported)

Fruitland @ 2110' \* est.

Pictured Cliffs @ 2293'

7.875" Hole

5.5" 14#/15.5#, J-55 Casing @ 2296'  
Cement with 100 sxs

Pictured Cliffs Open Hole:  
2293' - 2311'

2311' TD  
2311' COTD

# NCRA State #6 Proposed P&A

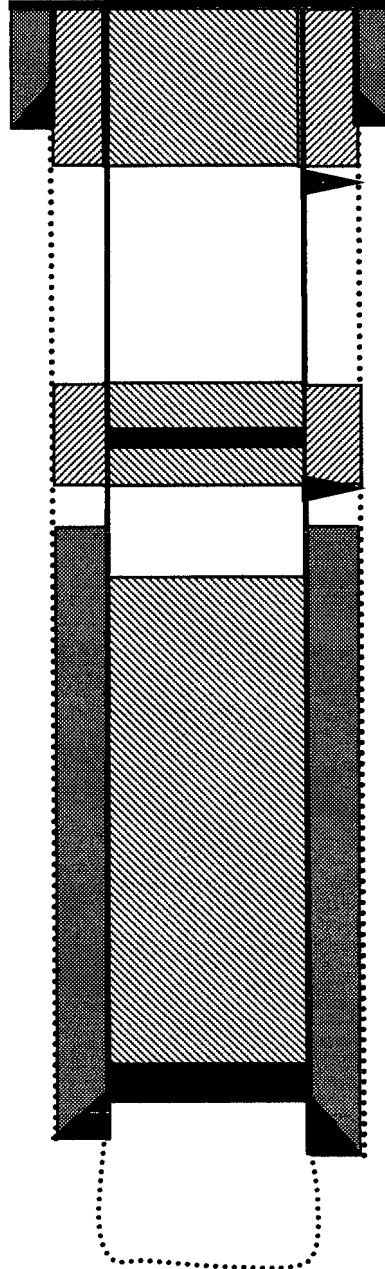
Ballard Pictured Cliffs

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Lat: N 36.26717 / Long: W 107.41382 / API 30-039-05238

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Elevation: 6829' GL

12.25" Hole



8.625" 24#, J-55 Casing set @ 100'  
Cement with 70 sxs, circulated to surface

Perforate @ 150' Plug #3: 150' - 0'  
Type III cement, 45 sxs

Plug #2: 1760' - 1660'  
Type III cement, 43 sxs:  
27 outside and 16 inside

Cement Retainer @ 1710'  
Perforate @ 1760'

TOC @ 1782' (Calc, 75%)  
TOC @ 1782' (Calc, 75%)

Plug #1: 2246' - 1865'  
Type III cement, 45 sxs

Set CR @ 2246'

5.5" 14#/15.5#, J-55 Casing @ 2296'  
Cement with 100 sxs

Pictured Cliffs Open Hole:  
2293' - 2311'

Ojo Alamo @ 1710' \* est.

Kirtland @ 1915' \* est.

Fruitland @ 2110' \* est.

Pictured Cliffs @ 2293'

7.875" Hole

2311' TD  
2311' COTD