

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

Form C-103  
May 27, 2004

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

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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. 30-039-05456
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <input type="checkbox"/>		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>K</u> : <u>1450</u> feet from the <u>South</u> line and <u>1650</u> feet from the <u>West</u> line Section <u>16</u> Township <u>24 N</u> Range <u>6W</u> NMPM Rio Arriba County		8. Well Number <u>7</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6812' 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 <u>          </u> bbls; Construction Material <u>          </u>		

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 ☐

**SUBSEQUENT REPORT OF:**  
REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐

OTHER: ☐ 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.

RCVD MAR 26 '08  
OIL CONS. DIV.

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

DIST. 3

Operator requests approval to dig a workover 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 03/24/2008

Type or print name Zach Stradling  
E-mail address: zstradling@bmgdrilling.com

505-325-8874 ex 5  
Telephone No.

**For State Use Only**

APPROVED BY: A. Villanueva TITLE Deputy Oil & Gas Inspector,  
District #3 DATE 3/26/08

Conditions of Approval (if any): HV Approve plugging only

## PLUG AND ABANDONMENT PROCEDURE

March 21, 2008

### NCRA State #7

Ballard Pictured Cliffs

1450' FSL, 1650' FWL, Section 16, T24N, R6W, Rio Arriba County, New Mexico

API 30-039-05456 / Lat: 36.30966 N / Long: 107.47667

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 G, mixed at 15.8 ppg with a 1.15 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 1.25" tubing, total 2327'. If tubing is IJ or NU, then LD and PU a workstring. Round-trip 5.5" casing scraper or wireline gauge ring to 2248'.
4. **Plug #1 (Pictured Cliffs perforations and top, 2248' – 2148')**: TIH and set 5.5" CR at 2248'. 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.* Mix 18 sxs Type G cement and spot a balanced plug inside the casing above the CR to isolate the Pictured Cliffs interval. TOH with tubing.
5. **Plug #2 (Fruitland top, 1882' – 1782')**: Perforate 3 squeeze holes at 1882'. Attempt to establish rate into squeeze holes if the casing pressure tested. Set 5.5" cement retainer at 1832'. Establish rate into squeeze holes. Mix and pump 49 sxs Type G cement, squeeze 31 sxs outside the casing and leave 18 sxs inside casing to cover the Fruitland top. TOH with tubing.
5. **Plug #3 (Kirtland and Ojo Alamo tops, 1396' – 1115')**: Perforate 3 squeeze holes at 1396'. Attempt to establish rate into squeeze holes if the casing pressure tested. Set 5.5" cement retainer at 1346'. Establish rate into squeeze holes. Mix and pump 124 sxs Type G cement, squeeze 85 sxs outside the casing and leave 39 sxs inside casing to cover through the Ojo Alamo top. TOH and LD tubing.
6. **Plug #4 (8.625" Surface casing shoe, 151' - Surface)**: Perforate 3 squeeze holes at 151'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 70 sxs cement (excess cement due to possible bradenhead leak) 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 #7 Proposed P&A

Ballard Pictured Cliffs

1450' FSL & 1650' FWL, Section 16, T-24-N, R-6-W, Rio Arriba County, NM

Lat: N 36.30966 / Long: W 107.47667 / API 30-039-05456

Today's Date: 3/21/08  
Spud: 10/22/56  
Comp: 11/12/56  
Elevation: 6812' GL

Ojo Alamo @ 1165' \* est.

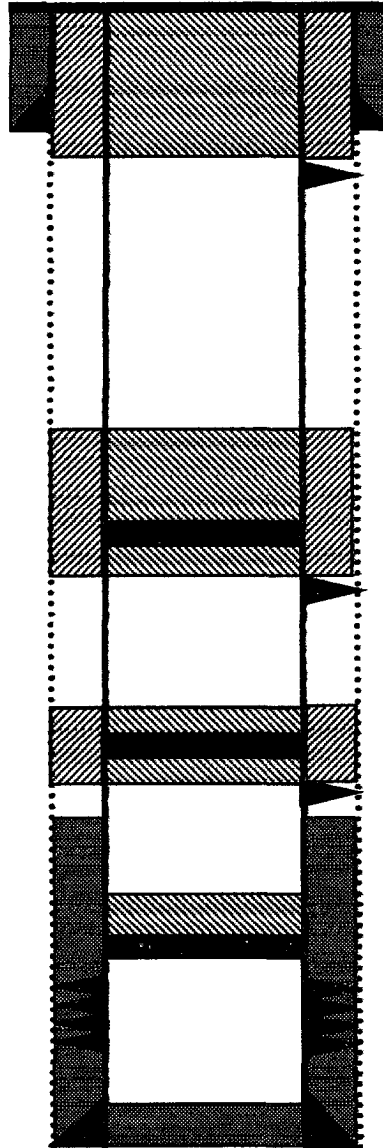
Kirtland @ 1346' \* est.

Fruitland @ 1832' \* est.

Pictured Cliffs @ 2294' \* est

12.25" Hole

7.875" Hole



8.625" 24#, J-55 Casing set @ 101'  
Cement with 70 sxs, circulated to surface

Perforate @ 151'

Plug #4: 151' - 0'  
Type G cement, 70 sxs  
(excess cement due to  
possible bradenhead leak)

Set CR @ 1346'

Plug #3: 1396' - 1115'  
Type G cement, 124 sxs:  
85 outside and 39 inside

Perforate @ 1396'

Set CR @ 1832'

Plug #2: 1882' - 1782'  
Type G cement, 49 sxs:  
31 outside and 18 inside

Perforate @ 1882'

TOC @ 1907' (Calc, 75%)

Set CR @ 2248'

Plug #1: 2248' - 2148'  
Type G cement, 18 sxs

Pictured Cliffs Perforations:  
2298' - 2314', 2319' - 2338'

5.5" 15.5#, J-55 Casing @ 2418'  
Cement with 100 sxs (118 cf)

2419' TD  
2360' COTD

# NCRA State #7 Current

Ballard Pictured Cliffs

1450' FSL & 1650' FWL, Section 16, T-24-N, R-6-W, Rio Arriba County, NM

Lat: N 36.30966 / Long: W 107.47667 / API 30-039-05456

Today's Date: 3/21/08  
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