

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an  
Abandoned well Use Form 3160-3 (APD) for such proposals.*

FORM APPROVED  
OMB No 1004-0135  
Expires July 31, 2010

5 Lease Serial No

**NMSF 080112**

6 If Indian, Allottee or tribe Name

**RCVD DEC 6 '07**

7 If Unit or CA/Agreement, Name and/or No

**OIL CONS. DIV.**

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1 Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

8 Well Name and No

**DIST. 3**

**Riddle F LS 4**

2 Name of Operator

**BP America Production Company Attn: Cherry Hlava**

9 API Well No

**30-045-07186**

3a Address

**P.O. Box 3092 Houston, TX 77253**

3b. Phone No (include area code)

**281-366-4081**

10 Field and Pool, or Exploratory Area

**Blanco Mesaverde**

4 Location of Well (Footage, Sec., T., R., M., or Survey Description)

**1000' FNL & 1550' FEL SEC 29 T28N R08W**

11 County or Parish, State

**San Juan County, New Mexico**

12 CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OR NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Water Disposal

☐ Water shut-Off

☐ Well Integrity

☒ Other Repair

- 13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

While working on the above mentioned well doing a clean out for downhole commingling it was discover the braden head pressure between the 7 5/8" and 10 3/4" builds up to 100 psi and bleeds off with small flow of water and overnight pressure builds up again. The 7 5/8" casing has been tested to 500 psi and is not leaking.

It was determined to do Braden head repair. Cement bond log was run and found cement @848'

**12/4/07** After speaking with Steve Mason and discussing repair the BLM gave verbal approval to proceed. Please see attached the procedure for repairs

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

Name (Printed/typed)

**Cherry Hlava**

Title **Regulatory Analyst**

Signature *Cherry Hlava*

Date **12/4/2007**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

**Original Signed: Stephen Mason**

Title

Date

**DEC 0 5 2007**

Conditions of approval, if any, are attached. Approval of this notice does not warrant or Certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**NMOCD**

**Work Procedure:**

**Procedure: Continuing operation with AWS 488 on location**

1. Run magnet and recover metal junk from hole on top of bridge plug.
2. Pick up 7 5/8" Retrievable Bridge Plug and RIH with packer and set RBP at 1900'.
3. TOH 1 joint and test RBP to 1000 psi.
4. Pressure test the casing above the packer to 1000 psi. Isolate the leak if any, by moving packer up hole and repeating pressure test of packer. If no casing leak is found a cement bond log will be run to determine the top of cement. **Spot 10' of sand on RBP.**
5. POOH with packer and run CBL to surface. Note: Ensure that hole is full with 2% KCL water to run CBL.
6. Transmit the log data to Richard Pomrenke at [pomrrw@bp.com](mailto:pomrrw@bp.com) and call to confirm transmission 281 455 8449.
7. The original temperature survey run in 1957 indicate that Top of Cement to be 980'. If that is the case then proceed as follows:
8. Perforate the 7 5/8" 26.4# J55 casing 4 SPF at 100' above the indicated cement top on CBL. If top of cement is 980' then 2 ft @ 4 spf will be placed at 880'. 8 holes will give a pump through area of 1.57" area or equivalent diameter of 1.4".  
**12-03-2007 top of cement is 848'. Perforated 2 FT 4 spf at 648'.**
9. Establish injection rate and attempt circulation to surface with 2 % KCL water.
10. RU cementers and place cement to the surface using 200 ft<sup>3</sup> of 12.5 ppg cement with tail in of 50 sxs (57.5 ft<sup>3</sup>) of Class G + 2 % CaCl<sub>2</sub> mixed to 15.8 ppg. Cement calculations are for 10" hole and 50% excess.
11. Place 5 bbls fresh water ahead and behind the cement. Displace cement to 100' above the perforated holes or 548' and hold final displace pressure for 24 hours. Expect 100 to 200 psi final displacement pressure.
12. RIH with bit drill cement out and test casing to 500 psi.
13. POOH and lay down bit and collars.
14. RIH and wash out 10' of sand on RBP and recover same at 1900'.
15. TIH with 2 3/8" tubing and bit for 5 1/2". Cleanout any fill to 4400' cast iron bridge plug drill out bridge plug at 4400'. RIH and cleanout to PBTB 4615' if possible or at least to bottom of Mesa Verde perforations 4602. POOH

## **SJ Basin Well Work Procedure**

**Well Name:** Riddle F LS 4  
**API #:** 30-045-07186  
**Date:** December 2, 2007  
**Repair Type:** Payadd  
**Location:** T28N-R8W-Sec29  
**County:** San Juan  
**State:** New Mexico  
**Horizon:** Mesaverde/Chacra/PC  
**Engr:** Richard W. Pomrenke  
ph (281) 366-5023 cell 281 455 8449  
fax (281) 366-0700

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**Problem:** Well bradenhead pressure between the 7 5/8" and 10 3/4" builds up to 100 psi and bleeds off with small flow of water and overnight pressure builds up again. The 7 5/8" casing has been tested to 500 psi and is not leaking.

**Objective:** Eliminate bradenhead pressure and DHC Menefee perforations with Mesa Verde Perforations

1. Evaluate condition of 7 5/8" casing
2. Determine top of cement in annulus behind 7 5/8"
3. Place cement from TOC in annulus behind 7 5/8" to surface
4. Clean out well and return to production as Mesa Verde Menefee completion

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**Pertinent Information:** Gas BTU content for this well is above 950. Venting and Flaring document needs to be followed.

**Reference:**

**NOP 7812-01** Normal Operating Procedure Under balanced Well Control Tripping Procedure.  
**NOP 7804-01** Normal Operating Procedure Wellbore Air Purge.  
**NOP 7803-01** Procedure for At Risk Well Locations.  
**NOP 7814** Procedure for Flowback Operations

16. Rabbit tubing and RIH with 2-3/8" production tubing (with muleshoe, F-nipple with plug, 4 ft pup, X-nipple with plug).
17. Land 2-3/8" production tubing at +/-4,560'. Lock down 2 3/8" tubing hanger and bonnet.
18. Pressure test tubing to 500 psi with air unit, make sure tubing spool valves are open. Care should be taken during pressure testing of the tubing due to potential problem caused if tubing parts close to surface or above the hanger. Check all casing string for pressure. **The operations of removal of wellhead and installation of BOP's will be performed under a dispensation for one (1) barrier on the backside.**
19. ND BOP's. NU Wellhead. During Master valve placement ensure the top of hanger has spacer nipple in place to bottom of bonnet flange so plunger equipment will not hang up through tree. Pressure test Wellhead.
20. RU WL unit. Run gauge ring for 2-3/8" tubing. Pull plugs and set tubing stop for plunger. Communicate plunger equipment status to IC room personnel.
21. RD slickline unit.
22. Test well for air. Return well to production and downhole tri-mingle PC, Mesaverde.

***Richard W. Pomrenke***

Production Engineer-Consultant  
Capital Deployment Well Work  
San Juan South & North  
WL 19.113  
281-366-5023 office  
281 455 8449 cell

# Final Completion Wellbore Diagram

## Riddle F LS 004 PC/MV

API# 3004507186

Sec 29, T28N, R8W

GL 5831'

### History

- Drilled & completed in 12/1957

### PC Perforation

2146' - 2162' (sqzd w/ 100 sxs)

2160' - 2220'

### Formation Tops

Ojo Alamo 1190

PC 2157

CHACRA

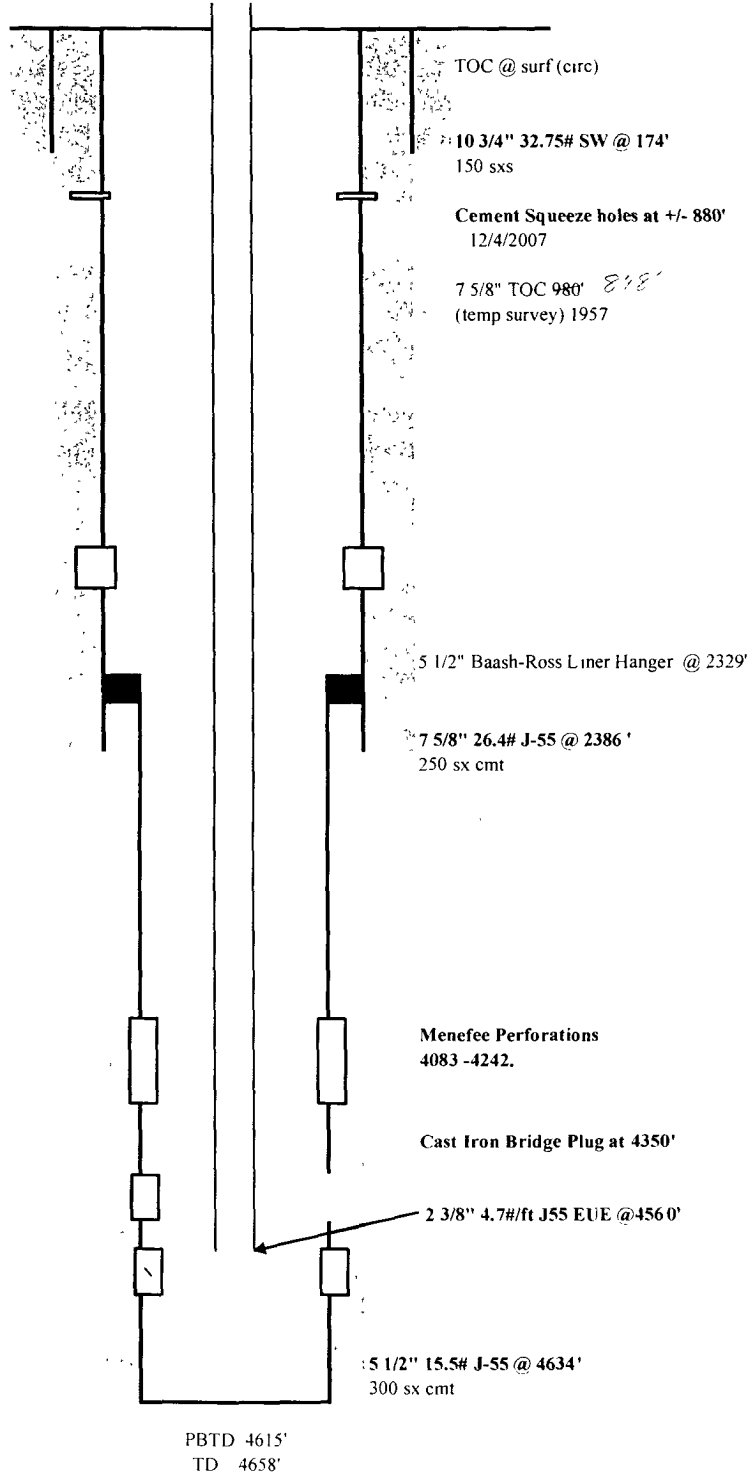
CLFH 3814

MEN 3848

PT LK 4403

### Mesaverde perforations:

4440' - 4602', frac'd w/ 60 klbs sand



updated 12/02/2007 RWP

12/4/2007 2:15:39 PM

Riddle F LS 4 Chacra / Menefee PayAdd Bradenhead Cementing and Cleanout Procedure

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