

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 November 30, 2000

5. Lease Serial No.

**NMNM - 04208**

6. If Indian, Allottee or tribe Name

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

8. Well Name and No.

**McCulley LS 4E**

9. API Well No.

**30-045-32511**

Field and Pool, or Exploratory Area

**Basin Dakota/Blanco Mesaverde**

County or Parish, State

**San Juan County, New Mexico**

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

1. Type of Well

☐

Oil Well

☒

Gas Well

☐

Other

2. Name of Operator

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

3a. Address

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

3b. Phone No. (include area code)

**281-366-4081**

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

**NENW 730' FNL & 1510' FWL Sec. 14 T28N, R09W**

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

TYPE OF SUBMISSION

☒

Notice of Intent

☐

Subsequent Report

☐

Final Abandonment Notice

TYPE OF ACTION

☐

Acidize

☐

Deepen

☐

Production (Start/Resume)

☐

Water shut-Off

☐

Alter Casing

☐

Fracture Treat

☐

Reclamation

☐

Well Integrity

☐

Casing Repair

☐

New Construction

☐

Recomplete

☒

Other Rescind Remedial Cmt

☐

Change Plans

☐

Plug and Abandon

☐

Water Disposal

☐

Convert to Injection

☐

Plug Back

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 recomplete 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 recompletion 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.

**On 2/21/06 BP America filed sundry to notify agencies of remedial cement plan prior to completing in the upper Mesaverde formation (due to top of cement @3868')**

**Per the attached MV Completion Procedure the top perforation will now be @ 4485' instead of 4003' as previously planned. Therefore no cement remediation is required at this time.**

**CONDITIONS OF APPROVAL**  
Please see attached the Mesaverde completion.  
~~Adhere to previously issued stipulations.~~

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

14. I hereby certify that the foregoing is true and correct  
Name (Printed/typed)

**Cherry Hlava**

Title **Regulatory Analyst**

Signature

*Cherry Hlava*

Date **02/23/2006**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

*Mark Halbert*

Title

*PETE ENG*

Date

*3/9/06*

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

*BLM-FFO*

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**

# Mesa Verde/Dakota Infill Drilling Well Pay-add/Completion Procedure

Well Name: **McCulley LS 4E**  
Version: **2.2**  
Date: **February 22, 2006**

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## Summary of Objectives

1. RU SU. POOH w/ completion string.
2. Set bridge plug to isolate DK formation.
3. Perforate and frac (one-stage N2 Foam) the MV Pt. Lookout.
4. Clean out MV, perform flow test for production allocation.
5. Drill out isolation plug, commingle MV/DK and clean out wellbore to PBTD.
6. Run completion string. RDSU
7. Turn well back to production.

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## Pertinent Information

Location	Sec14, 28N-9W	Horizon	Basin Dakota/Mesaverde
County	San Juan	Engineer	John Papageorge
State	New Mexico	Phone #s	281-366-5721 wk. 713-822-5053 cell
API Number	30-045-32511	Geologist	Jim Perkins
Well Flac		Phone #	281-366-0713
SAP Number	X5-0040V		

**Note:** BTU content of the produced gas will exceed 1100. Therefore, adhere to requirements as detailed in Venting and Flaring document.

## HSE Observations and Issues

1. Materials and equipment taken to site will be handled with extreme care to reduce any potential hazard to the environment.
2. A safety meeting will be held at the beginning of each event. The site and surrounding area will be kept clean and tidy throughout all operations with appropriate warning signs will be placed around work area.
3. Flare whenever possible to reduce green house gas emissions. Record in DIMS
4. KPI's will be agreed upon on-site prior to perforating and stimulation operations.
5. Risk Assessment to be performed.

4485  
3868  
617 ✓

## Completion Procedure

**Note:** As applicable within the following completion program, reference the following BP DWOP documents for detailed procedures with regard to:

**Under-Balanced Well Control Tripping Procedure** (Proc # NOP-7812, Rev 1)

**Procedure for Flowback Operations** (Proc # NOP-7814)

**Wellbore Air Purge** (Proc # NOP-7804-01, Rev 1)

**Procedure for At-Risk Well Locations** (Proc #NOP-7803-01, Rev 5)

1. Check and record tubing, casing and bradenhead pressures. Ensure production casing has double casing valves installed. Meet with stimulation service company to determine number of frac tanks required and the layout of the site. Locate frac tanks and fill.
2. RU slickline equipment. RIH and set two barriers for isolation.
3. MI RU service unit. Conduct daily and event-specific safety meetings and JHAs with all personnel on site.
4. Blow well down and kill w/2% KCl water only as necessary. Check all casing strings to ensure no pressure exists on any annulus. Note: The operation for removal of wellhead and installation of BOPs will be performed under a dispensation for one barrier on the backside.
5. ND wellhead. NU BOPs and diversion spool with 3" outlet and 3" pipe to the blow tank. Pressure test BOPs.
6. Pull tubing hanger, shut pipe rams and install stripping rubber.
7. PU extra tubing joints as necessary to RIH and tag for fill. Tubing currently set at 6541'. POOH and stand back tubing.
8. Rig up electric line equipment and set 4-1/2" composite bridge plug at 4825' to isolate Dakota. Make sure well is static and all valves are closed when running in the hole with plug and setting tool. Load hole with 2% KCL. Pressure test plug and casing to 1500 psi using rig pump.
9. Conduct risk assessment (JHA) prior to perf and frac operations. **NOTE:** Follow Schlumberger Explosive SOP. Any electronic device that transmits a signal should be shut off or prohibited from within 300' of location. Also, ensure all vehicle data recorder (VDR) systems are disabled prior to driving on location. Contact control center at 326-9475 for verification.

## **LOWER MESA VERDE (Pt. Lookout) Stage**

10. Perforate the lower Mesa Verde (*Point Lookout formation*) with **120°** phasing as follows:

**4623, 4622, 4621, 4620, 4619, 4618, 4617, 4616, 4615, 4614, 4613, 4612, 4611, 4610, 4609' @ 2 spf = 30 holes**

**4499, 4498, 4497, 4496, 4495, 4494, 4493, 4492, 4491, 4490, 4489, 4488, 4487, 4486, 4485' @ 2 spf = 30 holes**

11. POOH with plug/gun assembly and check firing rate of guns. Immediately report to Houston if firing rate less than 100% to determine if additional runs need to be made.
12. RU wellhead isolation tool and Service Company equipment. Pressure test all lines and equipment. Frac the Mesa Verde Pt. Lookout interval as per service company schedule.
13. Rig down stinger and frac equipment. Open well up on ¼" choke and flowback overnight to clean up MV frac. After initial 8 hour flowback, open on ½" choke for 8 hours and then ¾" choke until stabilized.
14. RIH w/bit on 2-3/8" tubing and clean out wellbore to the top of bridge plug at 4825'.
15. When Mesaverde has been cleaned sufficiently, perform the 12-hour governmental flow test. Contact Houston regarding necessity of running BHPBP survey.
16. RIH with 2 3/8" tubing and drill out plug at 4825'. Proceed with RIH to PBTD. Clean out fill as necessary. Flow back MV/Dakota to clean up. When well has cleaned up sufficiently, POOH with tubing and bit.
17. RIH w/ 2 3/8" production tubing. Bottom assembly made up of: 2-3/8" expendable pump thru-check valve (ball shear type), 2' sub, "F" landing nipple, 4' sub, "X" landing nipple with plug. Land tubing in lower section of Dakota formation at approximately 6675'.
18. Install do-nut (wrap-around), and land into wellhead. Set lockdown screws on donut. Make sure that donut is landed in hanger correctly.
19. Send appropriate information to Cherry Hlava (281-366-4081) to file the C-104.
20. Check pressures on all casing strings.

- 21.** The operation of removal of BOPs and installation of wellhead will be performed under a dispensation for one (1) barrier on the backside. Nipple down BOP's, install Xmas tree and test to 3000 psi. If wellhead tests ok, retrieve "X"plug. If not, check seals on wellhead and re-test. Pump out pump-through check valve and unload well. SI.
- 22.** RDMO Service rig
- 23.** Return well to production.

# McCulley LS 4E

Sec. 14, T28N R 9W

API: 30-045-32511

GL: 5832'  
KB: 5846'

9-5/8" 32#, H-40  
ST&C, @ 234'  
cmt to surf

7" 20#, J55 ST&C  
@ 2526'  
cmt to surf

TOC @ 3868'

**Mesa Verde Completion**  
(Menefee)  
4004-4379' future  
(Point Lookout)  
4485-4623' 60 holes

Tubing: 2-3/8"  
4.7#, J55 @ 6541'  
orig, new depth  
~6675'

**Dakota Completion**  
6523-6710'  
61 holes

PBTD to 6722'  
TD @ 6730'

4-1/2" 11.6#, P-110  
LT&C @ 6724'  
marker jts @ 3301' & 6373'

Updated: 2/22/06 JLP/JMP

## **Bureau of Land Management Conditions of Approval:**

- 1) Remedial cement work will be required prior to proceeding with the upper Mesaverde (Menefee) completion. Remedial cement work will be required to isolate the Chacra interval in this well bore. The FFO feels the remedial cement work should be completed within a six month time frame (9/9/06). Please contact Matt Halbert @ (505) 599-6350 before starting the remedial cement work.**
- 2) Pits must be lined with an impervious material at least 12 mils thick. The pit must be fenced on three (3) sides during workover operations and on the 4<sup>th</sup> side after the rig moves off location. Pits must be closed within 90 days of completion of the workover operations. Prior to closing the pit the liner must be cut off at mud level.**