

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010**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.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMSF078095
2. Name of Operator BP AMERICA PRODUCTION CO. Contact: CHERRY HLAVA E-Mail: hlavacl@bp.com		6. If Indian, Allottee or Tribe Name
3a. Address HOUSTON, TX 77253	3b. Phone No. (include area code) Ph: 281-366-4081	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 5 T31N R11W SESW 0990FSL 1650FWL 36.92268 N Lat, 108.01588 W Lon		8. Well Name and No. CASE B 1
		9. API Well No. 30-045-11006-00-S1
		10. Field and Pool, or Exploratory BLANCO MESAVERDE
		11. County or Parish, and State SAN JUAN COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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.)

Bradenhead Repair NMOCD Reference: RBDMS KGR0930655072 11/03/2009

The Bradenhead on the above mentioned well is in need of repair.

Please see total of 5 documents including procedure to repair the bradenhead.

RCVD JAN 27 '10

OIL CONS. DIV.  
DIST. 3**Notify NMOCD 24 hrs  
prior to beginning  
operations****CASING TEST MUST MEET REQUIREMENTS OF NMOCD RULE 19.15.25.14**

14. I hereby certify that the foregoing is true and correct. Electronic Submission #80404 verified by the BLM Well Information System For BP AMERICA PRODUCTION CO., sent to the Farmington Committed to AFMSS for processing by STEVE MASON on 01/25/2010 (10SXM0069SE)	
Name (Printed/Typed) CHERRY HLAVA	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 01/21/2010

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

Approved By STEPHEN MASON	Title PETROLEUM ENGINEER	Date 01/25/2010
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 Farmington

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.

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

NMOCD 10



## BP - San Juan Wellwork Procedure

### Case B1- MV Intermediate Remedial Procedure (Version 1)

#### General Information:

Formation:	MV	Job Objective:	Remediate
Project #:		Date:	Intermediate pressure 1/7/2010
Engineer:	Anne Hansford	p. 281.366.8691	c. 713-540-3386
Production Contact:	Rocky Deromedi	p. 505.326.9471	c. 505.486.0942
Optimizer:	Mike McMahon	p. 505.326.9231	
Backup Engineer:			

#### Well Information:

API Number:	30-045-11006
BP WI:	50%
Run #:	44
Surface Location:	Sec. 5, T31N, R11W
Meter Number:	70573
Well FLAC:	978845
Cost Center:	1000261263
Lease FLAC:	698813
Restrictions:	N/A
Regulatory Agency:	BLM & NMOCD
Compressed (Y/N):	Y

#### Production Data:

Tubing Pressure:	32-73 psi
Casing Pressure:	50-73 psi
Line Pressure:	175 psi
Pre-rig Gas Rate:	80 MCFD
Anticipated Uplift:	0 MCFD
Water Rate:	0.5 to 1 BWPD
CO2 (%):	1.215
H2S (PPM):	N/A
Gas BTU:	1141
Artificial Lift Type:	Plunger (see details)

#### Budget and Work Order Information

Rig Budget:	\$204,000	Total AFE Amount:	\$214,000
P&C Budget:	\$10,000	Work Order #:	
Swabbing Budget:	\$0		

#### Basic Job Procedure:

1. POOH with 2 3/8" tubing.
2. Run Log to determine TOC of 4-1/2" casing.
3. Perform necessary remedial work.
4. Run in hole with 2 3/8" tubing and land at 5160' (depending on hole conditions; if collapsed land tubing @ 4988' – discuss with engineer)

#### Safety and Operational Details:

##### ***ALL work shall comply with DWOP E&P Defined Operating Practice.***

The open hole may have partially collapsed due to wireline tag. Do not pull over 75% tubing strength (~50,000 lbs) without contacting engineering to discuss options. Tubing looks to be around 6 years old.

Superseal plunger and equipment in well - new 2 slip stop @ 5153. Fish plunger and equipment, before setting plugs. Save any scale samples if recovered on equipment.

**Well History:**

The Case B1-MV was completed in 9/1953 as an open hole. The SITP at the time was 674 psi. The well was next intervened in 11/2002 to retrieve a fish. The wellbore was also cleaned out to 5260' (which is different PBTD). The last intervention occurred in 7/2004. Wireline was done in 11/2009. Old 2 slip stop was removed and no fluid was found. 1.61" impression block tagged at 5172' (EOT!). RIH with sample bailer and retrieved no sample. Worked several times. Hard packed. RIH with SB running tool and set new 2 slip stop @ 5153'. Dropped plunger back in well. Casing opened 12/16 – 12/17 to determine if open hole was completely collapsed. Production did not indicated a completely collapsed wellbore.

---

**Standard Location Work:**

1. Perform pre-rig site inspection, size of location, gas taps, other wells, other operators, running equipment, wetlands, wash, H2S barriers if needed for equipment. Landowner issues, buried lines in pits, raptor nesting, critical location, check anchors. Check ID wellhead, determine if equipment is acceptable or obsolete and replace if necessary, if digging is required have One Call made 48 hours. Follow ground disturbance policy.
2. Perform second site visit, checking anchors and barriers if needed. Ensure lines are marked so that they clearly designate pit locations. Discuss and turnover handover sheet with someone from operations team and wells team. LOTO all necessary equipment including but not limited to: meter run, automation, separator, and water line.

**Rig Procedure:**

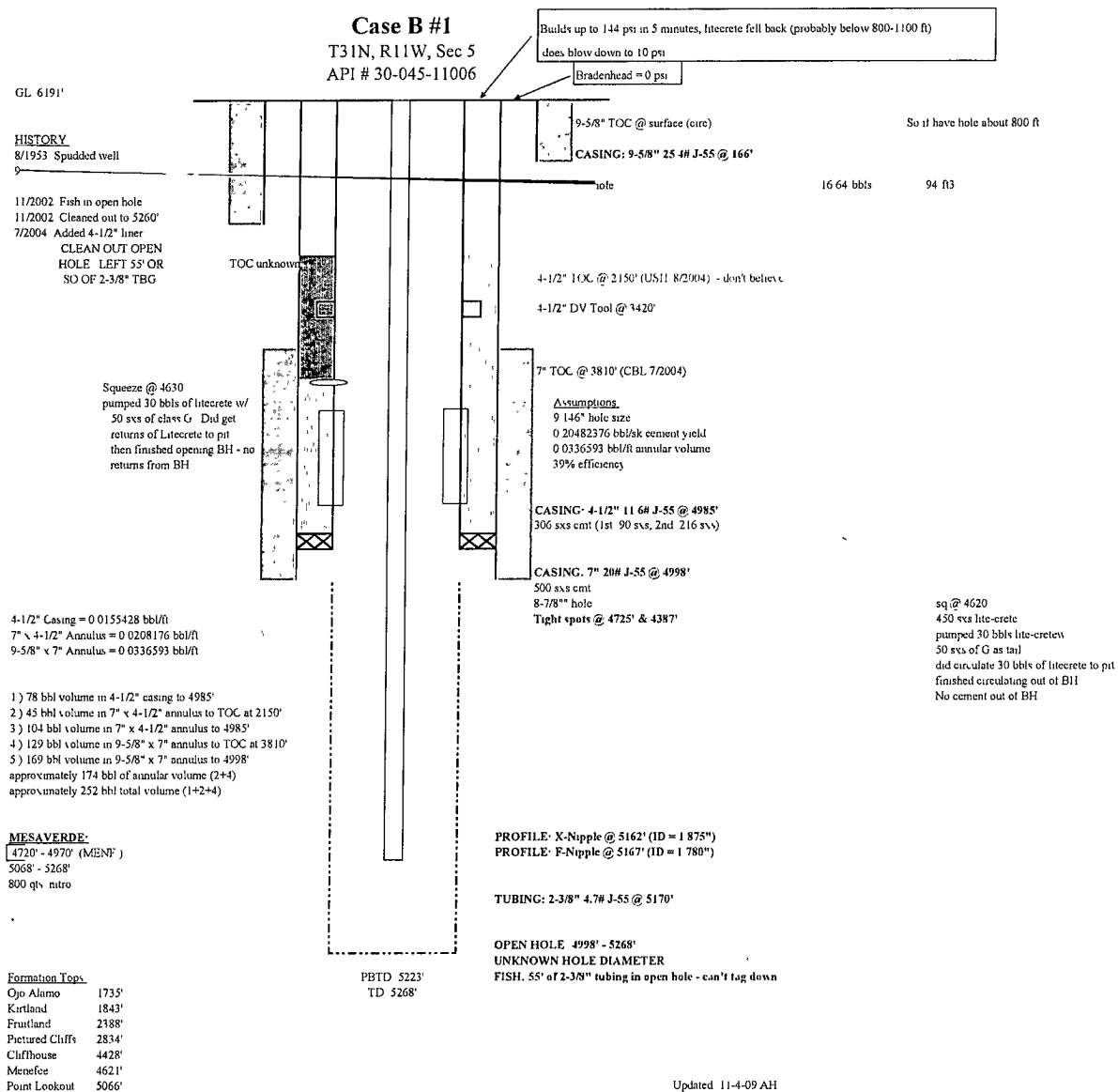
3. Notify NMOCD 24 hours prior to performing the work.
4. Hold pre-job safety meeting and discuss JSA with everyone on location. JSA should cover: heavy lifts, pinch points, location hazards, pressure hazards, proper PPE and 8 golden rules of safety/IFF. Make sure everyone has preformed their LOTO and knows they have the right to stop the job.
5. Check and record casing pressure, intermediate, and Bradenhead pressures. Record all pressures into DIMS. Notify engineer if Bradenhead pressures exist. Check gas H2S content and treat if the concentration is > or equal to 10 ppm.
6. MIRU workover rig.
7. Insure double casing valves are installed. Spot and lay 3" line and tank to blow down well, record pressures while blowing well down if possible.
8. Move in Wireline unit, equipment and crew. Be sure to fill out necessary work orders. Wireline must perform LOTO and JSA. RU unit with a lubricator and BOP. Pressure test lubricator and BOP to 250psi for 5 min and 700psi full test. Chart results and record passing test in DIMS.
9. Retrieve plunger and plunger equipment. Two barriers will need to set in order to break containment – There are profile plugs downhole (X @ 5162' and F @ 5167'). (Plugs in downhole profiles, CW plugs with triple slip stop, or Plug in profile). Each time the lubricated connection is broken, it will need to be pressure tested for a quick 5 min test and document in DIMS. Contact engineering if these barriers cannot be used. If wellhead has profile for

Back Pressure valve, rig up High Tech, pressure test lubricator and equipment to set two-way check in wellhead profile. Test will need to be charted and recorded in DIMS.

10. Blow down backside to flow back tank.
11. Nipple down Wellhead. NU BOPs and diversion spool with 3" outlets and 3" pipe to the flow back tank. Pressure test BOPs. Monitor flowing casing pressure with gauge (with casing flowing to blow tank) throughout workover. Remove wellhead back pressure valve if used.
12. Pull tubing hanger and shut pipe rams and install stripping rubber.
13. POOH with 2-3/8" J-55 4.7#/ft production tubing currently set @ 5170'.

**\*STOP and Contact engineering if tubing is stuck and cannot be pulled. Run free point to help make decisions regarding tubing cut.\***

14. RIH and set RBP @ 4670'. Load hole with fluid and pressure test 4-1/2" casing. If no fluid or pressure loss is apparent, RIH with scraper to ensure logging tool does not get stuck.
15. RU E-Line, pressure test lubricator. Pressure test lubricator and BOP to 250psi for 5 min and 700psi full test. Chart results and record passing test in DIMS.
16. Run logging tool from 4620' to surface instead the 4-1/2" casing. Based on results, contact engineer for remedial work.
17. Contact engineer to determine if any cleanout needs to be conducted.
18. RIH with 2-3/8" production tubing (with wireline entry guide, 1.78" profile 'F-nipple' with plug, 4 ft pup, 1.875" ID profile 'X-nipple with plug).
19. If openhole is not collapsed, land 2-3/8" production tubing at +/- 5160'. Lock down hanger. Using standard BHA with plugs in place (Muleshoe on bottom, F nipple = 1.780" ID profile, ~4' tubing sub, X nipple = 1.880" ID profile on top).
20. Pressure test tubing to 500 psi with air unit, install seal nipple in top of tubing hanger. Pressure test will need to be charted and recorded undisturbed for 30 minutes. Check all casing string for pressure.
21. 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 if capable.
22. RU WL unit, pressure test and chart as necessary. **Run Broach for 2-3/8" tubing.** Pull plugs and set tubing stop for plunger. Communicate plunger equipment status to IC room personnel. RD slickline unit.
23. Purge well, test well for air. Return well to production.
24. Ensure all reports are loaded into DIMS. Print out summary of work and place in Wellfile. Have discussion with production engineer/optimizer about particulars of well when handing off the well file.



## BRADENHEAD TEST REPORT

(Submit 2 copies to above address)

Date of Test: 09/30/2009 Operator: BP America Production Co API# 3004511006

Property Name: CASE B 001-MV Location: Unit: N Section: 05 Township: 31N Range: 11W  
Property Name: CASE B 001-MV Location: Unit: N Section: 5 Township: 31N Range: 11W

Producing: Tubing: 25.000 Intermediate: 300.000 Casing: 45.000 Bradenhead: 0.000

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Time	Bradenhead			Intermediate			Bradenhead	Intermediate
	BH Blowdown	Casing Monitor	Intermediate Monitor	Intermediate Blowdown	Casing Monitor		Flowed (SECS)	Flowed (SECS)
5 Minutes		45.000	300.000	40.000	45.000	Steady Flow		Y
10 minutes		45.000	300.000	25.000	45.000	Surges		
15 minutes		45.000	300.000	25.000	45.000	Down to Nothing (Sec)		
20 minutes						No Flow	Y	
25 minutes						Gas		Y
30 minutes						Gas & Water		
5 minute SI		45.000	300.000	135.000	45.000	Water		

If Bradenhead flowed water, check all of the description that apply below:

Clear Fresh Salty Sulfur Black

REMARKS:

By \_\_\_\_\_ Witness \_\_\_\_\_

(Position)



NEW MEXICO ENERGY, MINERALS  
AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC, NM 87410  
(505) 334-6178 FAX: (505) 334-6170  
<http://www.emnrd.state.nm.us/ocd/>

**BRADENHEAD TEST REPORT**

(Submit 2 copies to above address)

Date of Test 7-14-08 Operator BP America Production Company API # 3004511006

Property Name CASE B 001-MV Location: Unit N Section 5 Township 31 Range 11  
(Well Name and Number)

Pressure (Shut-in or Producing) Tubing 50 Intermediate 260 Casing 50 Bradenhead 1

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Time	Bradenhead			Intermediate			Bradenhead Intermediate Flowed Flowed	
	BH Blowdown	Casing Monitor	Intermediate Monitor	Intermediate Blowdown	Casing Monitor			
5 minutes	<u>0</u>	<u>50</u>	<u>260</u>	<u>10</u>	<u>50</u>	Steady Flow		<u>X</u>
10 minutes	<u>0</u>	<u>50</u>	<u>260</u>	<u>10</u>	<u>50</u>	Surges		
15 minutes	<u>0</u>	<u>50</u>	<u>260</u>	<u>10</u>	<u>50</u>	Down to Nothing	<u>13 sec</u>	
20 minutes						No Flow		
25 minutes						Gas	<u>X</u>	<u>X</u>
30 minutes						Gas and Water		
5 minute SI	<u>T.L.T.R</u>	<u>50</u>	<u>260</u>	<u>144</u>	<u>50</u>	Water		

If bradenhead flowed water, check all of the descriptions that apply below:

Clear \_\_\_\_\_ Fresh \_\_\_\_\_ Salty \_\_\_\_\_ Sulfur \_\_\_\_\_ Black \_\_\_\_\_

5 Minute Shut-in Bradenhead T.L.T.R Intermediate 144

REMARKS: 1" VALVE ON B.H NO DIG  
1" VALVE ON I.M.

M.F. Name 100 YDS to WASH

By Watchdog Witness \_\_\_\_\_

(Position)



2030 AFTON PLACE

FARMINGTON, N.M. 87401

3 U\* 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

ANALYSIS NO. BP290033

CUST. NO. 12305 - 10520

## WELL/LEASE INFORMATION

CUSTOMER NAME	BP AMERICA/FARMINGTON	SOURCE	CASING INTERMED
WELL NAME	CASE B1	PRESSURE	295 PSI A
COUNTY/ STATE	NM	SAMPLE TEMP	80 DEG.F
LOCATION		WELL FLOWING	N/A
FIELD		DATE SAMPLED	11/10/2009
FORMATION	MESA VERDE	SAMPLED BY	V. LAUER
CUST.STN.NO.	70573	FOREMAN/ENGR.	CHUCK ANDERSON
	0080		

## REMARKS

ANALYSIS				
COMPONENT	MOLE %	GPM**	B.T.U *	SP.GR *
NITROGEN	0.439	0.0000	0.00	0.0042
CO2	0.002	0.0000	0.00	0.0000
METHANE	83.472	0.0000	845.01	0.4624
ETHANE	9.959	2.6619	176.65	0.1034
PROPANE	3.972	1.0937	100.17	0.0605
I-BUTANE	0.444	0.1452	14.47	0.0089
N-BUTANE	0.948	0.2989	31.00	0.0190
I-PENTANE	0.218	0.0798	8.74	0.0054
N-PENTANE	0.225	0.0815	9.04	0.0056
HEXANE PLUS	0.321	0.1432	16.81	0.0103
TOTAL	100.000	4.5042	1,201.89	0.6798

\* @ 14.730 PSIA DRY &amp; UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA &amp; 60 DEG. F

COMPRESSIBILITY FACTOR	(1/Z)	1.0030
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,205.7
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,185.6
REAL SPECIFIC GRAVITY		0.6816

ANALYSIS RUN AT 14.730 PSIA &amp; 60 DEGREES F

DRY BTU @ 14.650	1,199.2	CYLINDER #	1506
DRY BTU @ 14.696	1,202.9	CYLINDER PRESSURE	279 PSIG
DRY BTU @ 14.730	1,205.7	DATE RUN	11/12/2009
DRY BTU @ 15.025	1,229.9	ANALYSIS RUN BY	DAWN BLASSINGAME



BP AMERICA/FARMINGTON  
WELL ANALYSIS COMPARISON

---

LEASE :	CASE B1	CASING INTERMED	11/12/2009
STN.NO. :	70573	MESA VERDE	12305 - 10520
MTR.NO. :	0080		

---

SMPL DATE	11/10/2009
TEST DATE	11/12/2009
RUN NR.	BP290033

NITROGEN	0.439
CO2	0.002
METHANE	83.472
ETHANE	9.959
PROPANE	3.972
I-BUTANE	0.444
N-BUTANE	0.948
I-PENTANE	0.218
N-PENTANE	0.225
HEXANE +	0.321

BTU	1,205.7
GPM	4.5042
SP.GRAV	0.6816