

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

**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.**

5. Lease Serial No.  
JIC 90

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.  
CHRIS 2

9. API Well No.  
30-039-21390

10. Field and Pool, or Exploratory  
BLANCO MESAVERDE

11. County or Parish, and State  
RIO ARRIBA COUNTY, NM

1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
CONOCOPHILLIPS CO.

Contact: DEBORAH MARBERRY  
E-Mail: deborah.marberr@conocophillips.com

3a. Address  
P O BOX 2197 WL3 6108  
HOUSTON, TX 77252

3b. Phone No. (include area code)  
Ph: 832-486-2326

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 10 T27N R3W NESW 1450FSL 1850FWL

**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 type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Workover Operations
	<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.)

ConocoPhillips requests approval to repair the bradenhead in this well as per the attached procedure.

**CONDITIONS OF APPROVAL**  
Adhere to previously issued stipulations.

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

Electronic Submission #55154 verified by the BLM Well Information System  
For CONOCOPHILLIPS CO., sent to the Rio Puerco

Name (Printed/Typed) DEBORAH MARBERRY

Title SUBMITTING CONTACT

Signature (Electronic Submission)

Date 03/18/2005

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

Approved By

Title

Date

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.

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

NMOC



## **San Juan Workover Procedure**

***'Our work is never so urgent or important that we cannot take time to do it safely.'***

**WELL: Chris #2 (MV)**

**Objective:** Bradenhead / Casing Repair

**PROCEDURE:**

Note: All cement for squeezing will be ASTM Type III, mixed at 14.8 ppg with a 1.32 cf/sx yield.✓

**Notify the BLM before any doing any cementing work.**

Minimize the use of pipe dope during workover operations to protect the formation.

1. Notify Lease Operator. Determine if well is equipped with a piston. Have lease operator remove piston or if necessary have slick line unit recover piston and BH spring assembly.✓
2. Set and fill 400 bbl water tank with 2% KCL fluid. Place biocide and scale inhibitor (Techni-  
hib 763) in the water tank with the first load.✓
3. Install and test location rig anchors. Set flowback tank. Comply with all NMOC, BLM,  
and ConocoPhillips safety regulations. MOL and RU daylight pulling unit.✓
4. **Conduct safety meeting for all personnel on location.** Complete JSA as appropriate  
for the work at hand. ✓
5. Blow well down and if necessary, kill well with 2% KCL water. DO NOT USE FRESH  
WATER. ND tree, install BPV, and NU BOP. Test BOPE to 250 PSI low and 2500 PSI ✓  
high.
6. PU additional tubing and tag fill. LD additional joints. TOH with 185 joints 2.375" tubing,  
standing back. Visually inspect tubing and note any corrosion, mud or scale. ✓
7. Round-trip 4.5" casing scraper to 5680' or as deep as possible. Set a 4.5" RBP (on  
wireline or on tubing) at 5600'✓ TIH with 4.5" full bore packer to 5598'. Load the casing  
with 2% KCl water. Then set the packer and pressure test the RBP to 1000 PSI. Unset  
the packer and pressure test the casing to 8000#. If casing leaks, then isolate casing /  
wellhead leak with a packer (and an additional RBP if necessary). ✓
8. If the casing does not leak, then TOH with packer and rig up a wireline unit and run a CBL  
log to determine the top of cement outside the 4.5" casing. Contact the Engineer for  
squeezing or repair recommendations. If the casing annulus is squeezed with cement,

attempt to bring cement to surface out the Bradenhead casing valve. **Note: Notify BLM / NMOCD 24 Hrs before pumping cement.** ✓

9. Drop or spot 10' of sand on the RBP. Squeeze the casing annulus as directed. WOC. If the squeeze was shallow then PU 3.125" drill collars and 3.875" mill tooth bit. Drill out the cement and check for stringers below. Pressure test the squeeze to 500# for 30 minutes. ✓
10. TOH with the bit and then LD the drill collars. PU and TIH with a 4.5" casing scraper to 1' above the RBP. Reverse circulate the well with clean 2% KCl water. TOH with scraper. ✓
11. TIH and retrieving head and circulate well clean above the RBP. Swab down the fluid level. Then retrieve the RBP. TOH and LD the RBP. .
12. If some of the perforations are covered with fill, then TIH with a bailer and CO as deep as possible. May acidize the perforations if scale is present.
13. Make up muleshoe collar and F nipple. TIH with 2.375" tubing to 6060' +/- KB. Land tubing. **Note: Apply pipe dope to pin ends only and minimize amount used. Rabbit tubing per ConocoPhillips "Tubing Drift Procedure".** ✓
14. ND BOP and NU wellhead and flow line.
15. If necessary swab well to kick off production. If expendable check used, load tubing with 2% inhibited KCL and blow off expendable check.
16. RD and MOL. Return well to production. ✓

**Notify cathodic protection personnel after job is complete so cathodic protection equipment can be re-activated. Ensure pit closures done.**



"Bill Clark"  
<bill@apluswell.com>  
04/13/2005 10:08 AM

To "Matt Halbet" <matthew\_halbert@nm.blm.gov>  
cc "'Bishop, Ron C.'" <Ron.C.Bishop@conocophillips.com>  
bcc  
Subject ConocoPhillips repair procedures

Hi Matt,

Ron Bishop called me and said you had some questions about why or how the attached wells were planned to be repaired.

Attached are wellbore diagrams that show the tops of cement in the annuli for each well.

Chris #1A – BH test has pressure, will blow down but does not affect the casing pressure. Plan to run a CBL and then squeeze cement. Hopefully, circulate cement to surface out the BH valve.

Chris #2 – same as Chris #1A.

SJ 28-7 #54 – the intermediate has high pressure. Plan is to determine where this gas is coming from and then repair.

SJ 29-5 #55 – the intermediate annulus and the casing communicate. Plan to determine if the wellhead or casing has a leak and then repair.

Please review these diagrams and the BH Tests. If you have additional questions or concerns, please call me. Please note, A-Plus prepared these diagrams and the proposed procedures for ConocoPhillips.

Thanks for your cooperation in this matter

Bill Clark  
A-Plus Well Service  
505-325-2627



Chris #1A - current 2005.ppt Chris #2 - current 2005.ppt SJ 29-5 #55 - current.ppt SJ 28-7 Unit #54 - current 2005.ppt

# Chris #2 Current

Blanco Mesaverde

1450' FNL & 1850' FWL, Section 10, T-27-N, R-3-W, Rio Arriba County, NM

Lat: 36° 35' 4.164" N & Long: 107° 8' 3.84" / API #30-039-21390

Today's Date: 3/17/05  
Spud: 6/28/77  
Completed: 7/10/77  
Elevation: 7008' GL  
7020' KB

12.25" hole

Nacimiento @ 1320'

Ojo Alamo @ 3275'

Kirtland @ 3458'

Fruitland @ 3578'

Pictured Cliffs @ 3737'

Chacra @ 4585'

Mesaverde @ 5582'

7.875" hole

TD 6200'  
PBTD 6165'

8.625" 24#, K-55 Casing set @ 198'  
Cement with 140 sxs (Circulated to Surface)

## Well History

Dec '04: Bradenhead Test: Shut in BH  
pressure - 41#; steady gas blow.

TOC @ Unknown, lost circulation  
while mixing cement, did not regain.

2.375" Tubing set at 6061'  
(185 joints, 4.7#, EUE)

DV Tool set @ 3916'  
Cement with 1000 cf,  
350 sxs with 12% gel then  
100 sxs with 4% gel;  
TOC Unknown, lost cir while mixing.

TOC @ Unknown, lost circulation  
while mixing cement, did not regain.

BP a 5600

Mesaverde Perforations:  
5684' - 6118"

4.5" 10.5#, K-55 Casing set @ 6198'  
Cement with 300 sxs (555 cf)  
TOC Unknown, lost cir while mixing.

JIC # 90

CHRIS #2

## 2004 Bradenhead Test

Well Name & # Chris 2 API 3003921390 The name & API are required.  
 I will return form if missing.

Unit K Sec. 10 Twn 27N Range 3W

Date of Test 12-17-2004 Well Status: Prod X SI    TA     
 (place X in appropriate box)

Initial Pressures  
 Tbg 144 Interm. N/A Casing 191 BH 38  
 (N/A indicates doesn't apply, 0 means no pressure on that string. Only indicate N/A or a Number)

First Test			
Test Time in	Bradenhead		
Minutes	BH	Csg	Intm
5 minutes	12	202	
10 minutes	12	212	
15 minutes	11	222	
20 minutes	11	224	
25 minutes	9	229	
30 minutes	8	230	
5 Minute SI	16		

2nd Test	
Intermediate	
Intm	Csg

Flow		
Characteristics	BH	Intm.
Steady flow	X	
Surges		
Down to nothing		
No flow		
Gas	X	
Water		
Gas & water		

Water flow	
Clear	
Fresh	
Salty	
Sulfur	
Black	
Muddy	

Remarks Braden head did not blow down to nothing. Sample Taken Tested by Augustine Gomez CenocoPhillips Co.

Witnessed by \_\_\_\_\_

Drilled 5-4-77

CUSTOMER NAME CONOCO PHILLIPS COMPANY  
WELL NAME CHRIS 2  
COUNTY/ STATE RIO ARRIBA NM  
LOCATION  
FIELD  
FORMATION MESA VERDE  
CUST. STN. NO.

SOURCE  
PRESSURE 36 PSI G  
SAMPLE TEMP DEG. F  
WELL FLOWING Y  
DATE SAMPLED 12/1/04  
SAMPLED BY AUGUSTINE GOMEZ  
FOREMAN/ENGR. BRAD COLE

REMARKS API NO. 30-039-21390  
METER NO: 8502801

# ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.149	0.0000	0.00	0.0014
CO2	0.764	0.0000	0.00	0.0118
METHANE	85.185	0.0000	862.33	0.4719
ETHANE	7.408	1.9801	131.40	0.0769
PROPANE	3.467	0.9548	87.44	0.0528
I-BUTANE	0.776	0.2638	26.29	0.0156
N-BUTANE	1.049	0.3307	34.30	0.0211
I-PENTANE	0.403	0.1475	16.16	0.0100
N-PENTANE	0.301	0.1090	12.09	0.0075
HEXANE PLUS	0.498	0.2191	25.60	0.0160
TOTAL	100.000	3.8947	1,194.61	0.6849

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z) 1.0032  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z) 1,198.7  
BTU/CU.FT (WET) CORRECTED FOR (1/Z) 1,180.6  
REAL SPECIFIC GRAVITY 0.6872

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650 1,192.2  
DRY BTU @ 14.696 1,195.9  
DRY BTU @ 14.730 1,198.7  
DRY BTU @ 15.025 1,222.7

CYLINDER # 304L  
CYLINDER PRESSURE 32 PSIG  
DATE RUN 12/15/04  
ANALYSIS RUN BY JANA CARANTA