

District I  
 PO Box 1980, Hobbs NM 88241-1980  
 District II  
 PO Drawer KK, Artesia, NM 87211-0719  
 District III  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV  
 PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
 Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
 PO Box 2088  
 Santa Fe, NM 87504-2088

Form C-102  
 Revised February 21, 1994  
 Instructions on back  
 Submit to Appropriate District Office  
 State Lease - 4 Copies  
 Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number <b>30-045-31620</b>		2 Pool Code <b>71629</b>		3 Pool Name <b>Basin Fruitland Coal</b>	
4 Property Code <b>570</b>		5 Property Name <b>Gallegos Canyon Unit</b>			6 Well Number <b># 597</b>
7 OGRID No. <b>778</b>		8 Operator Name <b>BP AMERICA PRODUCTION COMPANY</b>			9 Elevation <b>5554</b>

10 Surface Location

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>J (Lot 8)</b>	<b>21</b>	<b>29 N</b>	<b>12 W</b>		<b>2200</b>	<b>SOUTH</b>	<b>2310</b>	<b>EAST</b>	<b>SAN JUAN</b>

11 Bottom Hole Location If Different From Surface

7 UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres <b>288.51</b>		13 Joint or Infill		14 Consolidation Code		15 Order No.			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Cherry Hlava</i>        Signature        Cherry Hlava        Printed Name        Regulatory Analyst        Title        4-7-03        Date</p>	
	<p>18 SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>March 19, 2003        Date of Survey</p> <p><i>GARY D. VAUGHN</i>        Signature and Seal of Professional Surveyor</p>	
	<p>7016        Certificate Number</p>	

**BP AMERICA PRODUCTION COMPANY  
DRILLING AND COMPLETION PROGRAM**

**Prospect Name:** GCU 597  
**Lease:** GALLEGOS CANYON UNIT  
**County:** San Juan  
**State:** New Mexico  
**Date:** April 8, 2003

**Well No:** 597  
**Surface Location:** 2200' FSL & 2310' FEL  
 Sec. 21, 29N-12W  
**Field:** Basin Fruitland Coal

**OBJECTIVE:** Drill 200' into the Pictured Cliffs, set 4 1/2" casing to TD, perf & stimulate Fruitland Coal interval

METHOD OF DRILLING		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER			
TYPE OF TOOLS	DEPTH OF DRILLING	Estimated GL: 5554		Estimated KB: 5558	
Rotary/Top Drive	0 - TD	MARKER		SUBSEA	MEAS. DEPTH
<b>LOG PROGRAM</b>		Ojo Alamo		5324	241
TYPE	DEPTH INVERAL	Kirtland		5238	327
Open Hole (Platform Express)	TD to base of surface casing	Fruitland Coal	#	4060	1505
		Pictured Cliffs	*	4021	1544
REMARKS: - Please report any flares (magnitude & duration).		TOTAL DEPTH		3821	1744
		# Completion interval		* Possible Pay	
SPECIAL TESTS		DRILL CUTTING SAMPLES		DRILLING TIME	
TYPE		FREQUENCY	DEPTH	FREQUENCY	DEPTH
None		None		Geolograph	0-TD
REMARKS:					

**MUD PROGRAM:**

Approx. Interval	Type Mud	Weight, #/gal	Vis, sec/qt	W/L cc's/30 min	Other Specification
0 - 120-135	3 jts. Spud	8.6-9.2			
120-135 - TD	(1) Water/LSND	8.6-9.2			

REMARKS:  
 (1) The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.

**CASING PROGRAM:** (Normally, tubular goods allocation letter specifies casing sizes to be used. Hole sizes will be governed by Contract)

Casing String	Estimated Depth	Casing Size	Grade	Weight	Hole Size	Landing Point, Cement, Etc.
Surface/Conductor	120-135	7"	J 55 ST&C	23#	8.75"	1
Production	1744	4 1/2"	J 55 ST&C	10.5#	6.25"	1,2

REMARKS:  
 (1) Circulate Cement to Surface  
 (2) Set casing 200' below top of Pictured Cliffs

**CORING PROGRAM:**  
 None

**COMPLETION PROGRAM:**  
 Rigless, Single Stage Hydraulic Frac

**GENERAL REMARKS:**  
 Notify BLM/NMOCDD 24 hours prior to Spud, BOP testing, and Casing and Cementing.

Form 46 Reviewed by: \_\_\_\_\_ Logging program reviewed by: DLJ

<b>PREPARED BY:</b> HGJ/JLP	<b>APPROVED:</b>	<b>DATE:</b>
Form 46		

# BOP Test Pressure

## BP America Production Company BOP Pressure Testing Requirements

Well Name: GCU 597  
County: San Juan

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	234		
Kirtland	320		
Fruitland Coal	1498		
PC	1537		

\*\* Note: Determined using the following formula:  $ABHP - (.22 * TVD) = ASP$

Requested BOP Pressure Test Exception: 750 psi

**SAN JUAN BASIN  
Basin Fruitland Coal  
Pressure Control Equipment**

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### Background

The objective Fruitland Coal formation maximum surface pressure is anticipated to be less than 1000 psi, based on shut-in surface pressures from adjacent wells. Pressure control equipment working pressure minimum requirements are therefore 2000 psi. Equipment to be used will conform to API RP-53 (Figure 2.C.2) for a 2000 psi system per Federal Onshore Order No. 2. Due to available conventional equipment within the area, 3000 psi rated pressure control equipment will typically be utilized in a double ram type arrangement. Regional drilling rights to be utilized have substructure height limitations which exclude the use of annular preventers; therefore a rotating head will be installed above these rams. This pressure control equipment will be utilized for conventional drilling below conductor to total depth in the Basin Dakota. No abnormal temperature, pressure, or H2S anticipated.

### Equipment Specification

#### Interval

#### BOP Equipment

Below conductor casing to total depth	11" nominal or 7 1/16", 3000 psi double ram preventer with rotating head.
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All ram type preventers and related control equipment will be hydraulically tested to 250 psi (low pressure) and 2000 psi (high pressure), upon installation, following any repairs or equipment replacements, or at 30 day intervals. Accessories to BOP equipment will include kelly cock, upper kelly cock with a handle available, floor safety valves and choke manifold which will also be tested to equivalent pressure.

**Gallegos Canyon Unit 597**  
**New Drill Subsequent Report**  
**07/15/2003**

**06/26/03** MIRU SU TIH w/3.125 GUN & PERF FRUITLAND COAL 1460' – 1510' w/2 JSPF.  
TOTAL OF 48 HOLES.

**7/7/03** RU SU & FOAM FRAC FC w/60,000 gal. YF 120 70Q XL FOAM & 75,400 lb 16/30 BRADY  
SND. LAST 21,000 lb w/PROPNET. SPEARHEAD 500 gal ACID 15% HCL.

**7/8/03** SPOT EQUIPMENT

**7/9/03** CSG PRESS 100 psi BH 0 psi. ND FV & NUBOP. W/3" FLW LINES. TIH TAG FILL @1585'.  
RU & TST LINES, UNLOAD WELL w/AIR @1585'. RECOVERED 10 bbls FLUID MAKING MED.  
SND. TOH ABOVE PERFS. SDFN.

**7/10/03** 25 psi CSG, 0 BH. TAG FILL @1585'. C/O TO PBTD. Pull above perfs, SDFN.

**7/11/03** 50 PSI CSG, BH 0 PSI. TIH TAG FILL @1692' PBTD. UNLOAD w/AIR-MIST, DEWTR  
WELL, RECOVERED 20 – 30 bbls WTR. MAKING LIGHT TRACE OF SND. PULL ABOVE PERFS.  
SDFN.

**7/14/03** 100 psi CSG. BH 0 psi. TIH TAG FILL @1692. UNLOAD. TIH & LAND TBG @1545'.

**7/14/03** NDBOP. NUWH. PU/PMP RUN ¾" RODS, SEAT & SPACE PMP LOAD TBG. PRESS. TEST  
500 psi. RD.