

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Designation and Serial No. SFO78905
2. Name of Operator BHP Petroleum (Americas) Inc.		6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. 5847 San Felipe, Suite 3600, Houston, Texas 77057/(713) 780-5000		7. If Unit or CA, Agreement Designation Gallegos Canyon Unit
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2470' FSL and 845' FWL / Section 13, T-28-N, R-12-W		8. Well Name and No. GCU #418
		9. API Well No. 30-0450-28760
		10. Field and Pool, or Exploratory Area Basin Fruitland Coal
		11. County or Parish, State San Juan, New Mexico

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Completion</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

SEE ATTACHED - WELL COMPLETION HISTORY

RECEIVED
MAR 25 1993
OIL CON. DIV.
DIST. 3

RECEIVED
BLM
MAR 22 AM 11:26
OTD HALL, NEW MEX.

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

Signed Carl Kelbe Title Regulatory Affairs Rep. Date 3/17/93

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any: _____

ACCEPTED FOR RECORD

Title 18 U.S.C. Section 1001, makes 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.

*See Instruction on Reverse Side

BY Jim FARMINGTON DISTRICT OFFICE

GCU No. 418 Basin Fruitland Coal San Juan, New Mexico BHP WI 50%
NRI 39% AFE: #9301110 \$138,000

09/24/92- Day 1 Depth 148' MIRU Aztec Rig No. 184. Spud well at 2:15 pm 9/23/92. Drl 8 3/4" hole to 148' KB w/one survey. RU & run 3 jts of 7" 20# csg and landed at 144' KB. RU Western and cmt w/80 sxs of Class "B" w/3% CaCl and 1/4# sx Cello Seal. Obtained full returns w/7 bbl good cmt circ to surf. Plug dn at 7:30 pm on 9/23/92. WOC and nipple up BOPE. Bit No. 1 8 3/4" Smith J33F Ser 36348 in @ 15' out @ 148'. WOB all RPM 100 psi 950 SPM 104 . DC: \$14,000 CC: \$14,000

09/25/92- Day 2 Depth 1530' Drill 6 1/4" hole to 1530' w/two surveys. Circ and cond hole, short trip 10 stands. POOH to log. RU Schlumberger to log. Bit #2 6 1/4" Varel V517 in @ 148' out @ 1530'. WOB 1800 RPM 75 psi 1000 SPM 104 MW 8.9 Vis 63 PV/YP 18/14 Gels 6/20. DC: \$17,950 CC: \$31,950

09/26/92- Day 3 Depth 1620' Logs on btm. Well not deep enough. POOH w/tools. TIH w/bit and drill from 1530' to 1620'. Cond & circ. TOH for logs. RU Schlumberger and ran DIL/FDC/CNL/GR logs f/1619' to 144'. TIH circ & cond. POH laying dn DP. RU and ran 38 jts 4 1/2" 10.5# K-55 8R, R-3 ST&C csg & landed at 1614'. RU Western & cemented w/240 sxs Cello Seal and tallied w/20 sx Class "B" low fluid loss. Obtained full returns w/10 bbl good cmt to surf. Plug dn @ 8:45 pm and held. ND BOPE and jet pits, rig released @ 1:00 am on 9/26/92. Bit #2 6 1/4" Varel V517 in @ 148' out @ 1620' WOB 1800 RPM 75 psi 1000 SPM 104 MW 8.7 Vis 65 PV/YP 25/20 Gels 15/32 WL 10.8 pH 10 FC/32 2 solids 4 % sand .25. DC: \$27,150 CC: \$59,100 WOCT.

01/27/93- MIRU JC Well Service and NU BOPE. PU bit and csg scraper on 2 3/8" tbg. Tally in hole. Tag cmt at 1516' KB. RU power swivel and drill cmt to 1585' KB. Circ hole cl w/2% KCL wtr. Pressure tst csg and BOPE to 2500 psi. OK. POOH w/bit and csg scraper. MI set, fill and filter frac tank. SDFN. DC: \$4,900 TACC: \$4,900 CC: \$64,000 Day 1

01/28/93- RU Elec line and ran a gR/CCL log from 1582' to 1200'. POH and LD tools. GIH and perf Fruitland Coal from 1488' to 1498' and 1500' to 1502' w/ a 3-1/8" csg gun loaded 4 JSPF, 90° phasing shooting a .38 hole. POH all shots fired, no gas to surf. RD Elec Line. Instal 10,000 psi casing isolation tool. Heat frac water. WO frac crew. Day 2 DC: \$3,450 TACC: \$8,350 CC: \$67,450

01/29/93- RU Western to Frac stimulate the Fruitland Coal dn 4-1/2" csg w/ a 30# linear gel, 70 quality N/2 foam. Pmpd 16 bbl pad and pressured out at 4,000 psi. Bleed back and pmpd 50 bbl 30# linear gel w/no N/2. Rate was 15 BPM at 1700 psi. RU and bull head 500 gal 15% HCl acid. Let acid soak 30 min. RU and fracture stimulate the Fruitland Coal dn 4-1/2" csg pmping 300 bbl 30# linear gel, 55,000# 20/40 Brady sand w/ a 70 quality N/2 foam. Max press 4000 psi min 1270 psi avg 1500 psi avg rate 15 BPM max sand conc 6 ppg. ISIP 690 psi bleed back to induce closure. RD Western and left well shut in for 4 hrs. 4 hr SICP 485 psi. Open well to frac tank on a 3/8" pos choke. Load to recover is 378 bbl. Day 3 DC: \$22,200 TACC: \$30,550 TAC: \$89,650

01/30/93- 15 hrs flowing on a 3/8" choke. Recovered 150 bbl load wtr w/ 75 psi FCP. Changed out 3 choke inserts in 15 hrs. Kill

well w/60 bbl KCL wtr and TIH w/tbg and pmp out plug. Tag sand at 1467'. Clean out to PBTD w/ N/2, pull back and land tbg w/ 48 jts 2-3/8" 4.7# J-55 8R EUE at 1510' KB. ND BOPE and NU well head. Pmp off plug and unload well w/ N/2. Well flowing on a 3/8" pos choke. Rig dn and move out. TBLR 200 BLTR 238 Day 4 DC: \$8,550 TACC: \$39,100 CC: \$98,200

01/31/93- Well dead, MIRU swab unit. Ran swab and found FL 700' from surface. Swab well 5 hrs and recvd 55 bbl wtr. FL constant at 1000'. Well kicked off flowing, left flowing through a 3/8" pos choke. FTP 40 pswi csg 250 psi. TBLR 255 BLTR 183 Day 5 DC: \$1,600 TACC: \$40,700 CC: \$99,800

02/01/93- 17 hrs flowing through a 3/8" pos choke. Rec 130 bbl wtr. FTP 80 psi, csg 180 psi. Estimated gas volume 125 MCF/D. TBLR 385 BLTR 53 Day 6 DC: \$500 TACC: \$41,200 CC: \$100,300

02/02/93- 24 hrs flowing through a 3/8" pos choke. Rec 88 bbl wtr. FTP 85 psi csg 180 psi. Estimated gas volume 175 MCF/D TBLR 473 BLTR 35 Day 7 DC: \$500 TACC: \$41,700 CC: \$100,800

02/03/93- 24 hrs flowing through a 3/8" pos choke. Rec 100 bbl wtr. FTP 85 psi csg 180 psi. Estimated gas volume 175 MCF/D TBLR 573 BLTR +65 Day 8 DC: \$000 TACC: \$41,700 CC: \$100,800

02/04/93- 24 hrs flowing through a 3/8" pos choke. Rec 90 bbl wtr. FTP 85 psi, csg 180 psi. Estimated gas volume 175 MCF/D. TBLR 663 BLTR +155 Day 9 DC: \$200 TACC: \$41,900 CC: \$101,800

02/05/93- 24 hrs flowing through a test separator with a 2" meter run. Rec 117 bbl wtr with a gas rate of 200 MCF/D. FTP 80 psi, csg 165 psi. TBLR 780 BLTR +272 Day 10 DC: \$100 TACC: \$42,000 CC: \$101,100

02/06/93- 24 hrs flowing through a test separator with a 2" meter run. Rec 100 bbl wtr with a gas rate of 190 MCF/D. FTP 75 psi, csg 165 psi. TBLR 880 BLTR +372 Day 11 DC: \$100 TACC: \$42,100 CC: \$101,200

02/07/93- 24 hrs flowing through a test separator with a 2" meter run. Rec 57 bbl wtr with a gas rate of 190 MCF/D. FTP 80 psi, csg 160 psi. TBLR 937 BLTR +429 Day 12 DC: \$100 TACC: \$42,200 CC: \$101,300

02/08/93- 24 hrs flowing through a test separator with a 2" meter run. Rec 46 bbl wtr with a gas rate of 190 MCF/D. FTP 80 psi, csg 160 psi. TBLR 983 BLTR +475 Day 13 DC: \$100 TACC: \$42,300 CC: \$101,400

02/09/93- 24 hrs flowing through a test separator with a 2" meter run. Rec 95 bbl wtr with a gas rate of 190 MCF/D. FTP 75 psi, csg 160 psi. Shut well in. TBLR 1078 BLTR +570 Day 14 DC: \$000 TACC: \$42,300 CC: \$101,400

02/10/93- Well shut in 24 hours. SITP 211 psi SICP 285 psi. TBLR 1078 BLTR +570 Day 15 DC: \$300 TACC: \$42,600 CC: \$101,700

02/11/93- 48 hour SITP 220 psi SICP 293 psi. TBLR 1078 BLTR +570 Day 16 DC: \$000 TACC: \$42,600 CC: \$101,700

02/12/93- 72 hour SITP 222 psi SICP 297 psi. TBLR 1078 BLTR +570 Day 17 DC: \$000 TACC: \$42,600 CC: \$101,700

02/13/93- 96 hour SITP 224 psi SICP 298 psi. TBLR 1078 BLTR +570 Day 18 DC: \$000 TACC: \$42,600 CC: \$101,700

02/14/93- 120 hour SITP 225 psi SICP 300 psi. TBLR 1078 BLTR +570 Day 19 DC: \$000 TACC: \$42,600 CC: \$101,700

02/15/93- 144 hour SITP 230 psi SICP 300 psi. TBLR 1078 BLTR +570

day 20 DC: \$000 TACC: \$42,600 CC: \$101,700

****FINAL REPORT****

MIRU and spud well on 23 Sep 92. Drill 8-3/4" hole to 148' KB. RU and ran 3 jts 7" 20# J-55 R-3 8R csg and landed @ 144' KB. RU Western and cemented with 80 sks cement. Obtained full returns with 7 bbls good cement to surface. Plug down on 23 Sep 92. PU 6-1/4" bit and TIH. Drill 6-1/4" hole to 1,620'. C&C hole. Ran DIL/FDC/CNL/GR & Coal logs. C&C. RU and ran 38 jts 4-1/2" 10.5# K-55 R3 ST&C csg. Landed at 1,614' KB. Cement with 240 sks. Tail with 20 sks. Obtained full returns. PD on 25 Sep 92. Release rig on 26 Sep 92. RU 27 Jan 93. NU BOPE. Clean out. Perf'd Fruitland Coal from 1,488'-98' & 1500' -02' 4 spf-90 degree phasing. Fracture Fruitland Coal down csg with 30# gel, 70 Quality foam system. Encountered high injection pressures (4000 psi) and bull-headed 500 gal of 15% HCl acid. Frac'd with 300 bbl 30# gel, 70 Q foam and 55,000 lbs. 20/40 Brady. Flowed back, then killed well. TIH with 48 joints of 2-3/8" 4.7# J-55 8R EUE tbg and land @ 1510'. 9 Feb 93 test: 190 Mcfpd, 95 bwpd, FTP = 75 psi, Csg = 160 psi. Shut in. Waiting on pipeline.



LTR



Job separation sheet

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer DD, Artesia, NM 88211-0719

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-104

Revised February 21, 1994

Instructions on back

Submit to Appropriate District Office

5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator Name and Address Amoco Production Company 1670 Broadway P.O. Box 800 Denver, Colorado 80201		² OGRID Number 000778
		³ Reason for Filing Code CH Effective 5-01-1996
⁴ API Number 30-045-28760	⁵ Pool Name Basin Fruitland Coal	⁶ Pool Code 71629
⁷ Property Code 00570	⁸ Property Name Gallegos Canyon Unit	⁹ Well No. 418

II. ¹⁰ Surface Location

UL or lot no. L	Section 13	Township 28N	Range 12W	Lot Idn	Feet from the 2740	North/South line SOUTH	Feet from the 845	East/West line WEST	County SAN JUAN
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¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Lse Code F	¹³ Producing Method Code Flowing	¹⁴ Gas Connection Date 03/1994	¹⁵ C-129 Permit Number N/A	¹⁶ C-129 Effective Date N/A	¹⁷ C-129 Expiration Date N/A				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID 778	¹⁹ Transporter Name and Address Amoco Production Co. P.O. Box 800 Denver, CO 80201	²⁰ POD 0559930	²¹ O/G G	²² POD ULSTR Location and Description

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description
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V. Well Completion Data

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD	²⁸ PBTD	²⁹ Perforations
³⁰ Hole Size	³¹ Casing & Tubing Size	³² Depth Set	³³ Sacks Cement	

VI. Well Test Data

³⁴ Date New Oil	³⁵ Gas Delivery Date	³⁶ Test Date	³⁷ Test Length	³⁸ Tbg. Pressure	³⁹ Csg. Pressure
⁴⁰ Choke Size	⁴¹ Oil	⁴² Water	⁴³ Gas	⁴⁴ AOF	⁴⁵ Test Method

⁴⁶ I hereby certify that the rules of the Oil Conservation Division have been complied with and the information given above is true and complete to the best of my knowledge and belief.

Signature:

Patty Haefele

Printed Name: Patty Haefele

Title: Staff Assistant

Date: April 10, 1996

Phone: (303) 830-4988

OIL CONSERVATION DIVISION

Approved by:

[Signature]
SUPERVISOR DISTRICT #

Title:

Approval Date:

APR 26 1996

⁴⁷ If this is a change of operator fill in the OGRID number and name of the previous operator

[Signature]
Previous Operator Signature

J.C. Harris

Printed Name

BHP Petroleum (Americas), Inc.

Operations
Superintendent

Title

OGRID Number: 2217

April 4, 1996

Date