

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. SF080844-A
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 C.A. Agreement Designation Gallegos Canyon Unit
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2035' FNL and 1695' FEL Section 19, T-28-N, R-11-W	8. Well Name and No. GCU #416
	9. API Well No. 30-045-28757
	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 11:28
OIL CON. DIV., NM

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

Signed _____ Title Regulatory Affairs Rep. Date 3/17/93

(This space for Federal or State office use)

Approved by Carl Kolbe 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

NMOCD

FARMINGTON DISTRICT OFFICE
MAR 23 1993
SM



ACCEPTED FOR RECORD

APPROPRIATE NOTATION

GCU No. 416 Basin Fruitland Coal San Juan, New Mexico BHP WI 100%

AFE: #9301109 \$138,000

09/21/92 - Day 1 Depth 150' MIRU Aztec Rig No. 184. Spud well at 6:30 PM on 9/20/92. Drill 8 3/4" surf hole to 150' KB w/one survey. RU and ran 3 jts (7") 20# surf csg and landed at 145' KB. RU Western and cmtd w/150 sxs Class "B" plus 3% CaCl, 1/4# sx cello seal. Obtained full returns w/7 bbl good cmt circ to surf. Plug dn at 12:01 AM on 9/21/92. WOC. Bit No.(1) 8 3/4" Smith J33F Ser No 36348 in @ 15' out @ 135'. Jets 3/12 WOB all RPM 75 psi 1000 SPM 90. DC: \$13,950 CC: \$13,950

09/23/92 - Day 2 Depth 1700' Drl 6 1/4" hole to 1700' w/ one survey. Cond hole and short trip 10 stands. POOH RU Schlumberger and ran DIL/FDC/CNL/GR from 1700' to 144'. RD Elect Line & TIH. Cond & circ. TOH laying dn DP. RU and ran 40 jts 4 1/2" 10.5# K-55 8R R-3 ST&C csg. Landed @ 1695' KB. RU Western and cmt w/280 sxs 50/50 poz w/2% gel, 10% salt, 1/4# pr sx cello seal and tailed w/20 sx Class "B" low fluid loss. Obtained partial returns. Plug dn @ 11:59 pm on 9/22/92 & float held. ND & jet pits. Rel rig at 4:00 AM on 9/23/92. Bit #2 6 1/4" Varel V517 3/10 Ser #64420 in @ 150' out @ 1700'. WOB 18 RPM 75 psi 1000 SPM 104. MW 8.8 Vis 62 PV/YP 18/15 Gels 6/22 WL 11.4 pH 10 FC/32 2% sand .25. DC: \$27,890 CC: \$58,140

01/30/93 - MIRU JC Well Serv and NU BOPE. PU bit and csg scraper on 2 3/8" tbg and tally in hole. Tag up at 1583' KB. Set, fill and filter frac tank. SDFN. Day 1 DC: \$3,950 TACC: \$3,950 CC: \$62,090

01/31/93 - RU power swivel and drill from 1583' to 1641'. Circ hole clean w/2% KCL, test csg BOPE to 2500 psi, OK. RU Electric Line and ran CBL/GR/CCL log from 1641' to 25' with 0 psi on well. Reran CBL w/900 psi on csg, 1st log showed only 4' of cmt above zone of interst. Cmt top is at 240'. RU and perf the Fruitland Coal from 1527' to 1539' w/ a 3-1/8" csg gun loaded 4 JSPF 90° phasing shooting a .38 hole. POH all shots fired, no pressure to surf. RD Electric Line. Heat frac water and SDFN. Day 2 DC: \$4,400 TACC: \$8,350 CC: \$66,490

02/01/93 - No operation - Sunday. Day 3 DC \$0 TACC: \$8,350 CC: \$66,490

02/02/93 - RU BJ TO FRACTURE STIMULATE THE FRUITLAND COAL DOWN 4 1/2" CSG. WITH A 70 QUALITY NITROGEN FOAM 30# LINEAR GEL SYSTEM. PUMPED 14 BBL'S OF PAD AND PRESSURED OUT AT 2542 PSI. SHUT DOWN. WAIT ON ACID. RU AND BULL HEAD 12 BBL 15% HCL ACID AND DISPLACE WITH 30# LINEAR GEL. PUMPING 1 BPM AT 2500 PSI. SLIGHT BREAK WITH ACID ON PERFS. PUMPED 6 BBL'S ACID AWAY AND SHUT DOWN FOR 15 MIN. PUMPED BALANCE OF ACID IN 3 STAGES WITH 5 MIN. BETWEEN STAGES. START 70 QUALITY 30# LINEAR GEL PAD AT 15 BPM WITH 2300 PSI ON CSG. FRACTURE STIMULATE THE FRUITLAND COAL DOWN 4 1/2" CSG. WITH 285 BBL 30# LINEAR GEL, 57,180# 20/40 BRADY SAND WITH A 70 QUALITY N/2 FOAM. MAX. PRESSURE 2500 PSI, AVG. 1750 PSI. AVG. RATE 17 BPM. MAX. SAND CONC. 6 PPG. ISIP 1041 PSI. BLEED BACK TO INDUCE CLOSURE. LOAD TO RECOVER 321 BBL SHUT WELL IN FOR GEL BREAK. 4 HOUR SICP 730 PSI. OPEN WELL TO FRAC TANK ON A 3/8" POS. CHOKE. DC: \$18,700 TACC: \$27,050 CC: \$85,190

02/03/93 - 15 hrs flowing on a 3/8" choke. Recovered 178 bbl load

wtr w/ 160 psi FCP. Changed out 1 choke insert in 15 hrs. Kill well w/50 bbl KCL wtr and TIH w/tbg and pump out plug. Tag sand at 1545'. Clean out to PBTD w/ N/2, pull back and land tbg w/47 jts 2 3/8" 4.7# J-55 8R EUE at 1545' KB. ND BOPE and NU well head. Pump off plug and unload well with N/2. Well flowing on a 3/8" pos choke. Rig down and move out. DC: \$8,800 TACC: \$25,850 CC: \$93,990

02/04/93- 21 hrs flowing on a 3/8" choke. Recovered 145 bbl load wtr w/ an estimated gas rate of 200 MCF/D. FTP 190 psi Csg 225 psi. DC: \$200 TACC: \$26,050 CC: \$94,190

02/05/93- 24 hrs flowing on a 3/8" choke. Recovered 102 bbl wtr w/ an estimated gas rate of 300 MCF/D. FTP 190 psi Csg 237 psi. TBLR 475 BLTR +104 Day 7 DC: \$100 TACC: \$36,150 CC: \$94,290

02/06/93- 24 hrs flowing thru a test separator w/ a 2" meter run. Recovered 83 bbl wtr w/gas rate of 200 MCF/D. FTP 75 psi Csg 265 psi. TBLR 558 BLTR +187 Day 8 DC: \$100 TACC: \$36,250 CC: \$94,390

02/07/93- 24 hrs flowing thru a test separator w/ a 2" meter run. Recovered 100 bbl wtr w/gas rate of 165 MCF/D. FTP 50 psi Csg 200 psi. TBLR 658 BLTR +287 Day 9 DC: \$100 TACC: \$36,350 CC: \$94,490

02/08/93- 24 hrs flowing thru a test separator w/ a 2" meter run. Recovered 98 bbl wtr w/gas rate of 165 MCF/D. FTP 60 psi Csg 150 psi. TBLR 756 BLTR +385 Day 10 DC: \$100 TACC: \$36,450 CC: \$94,590

02/09/93- 24 hrs flowing thru a test separator w/ a 2" meter run. Recovered 70 bbl wtr w/gas rate of 165 MCF/D. FTP 60 psi Csg 150 psi. TBLR 826 BLTR +455 Day 11 DC: \$100 TACC: \$36,550 CC: \$94,690

02/10/93- 24 hrs flowing thru a test separator w/ a 2" meter run. Recovered 85 bbl wtr w/gas rate of 131 MCF/D. FTP 52 psi Csg 140 psi. TBLR 911 BLTR +540 Day 12 DC: \$400 TACC: \$36,950 CC: \$95,090

02/11/93- 24 hrs flowing thru a test separator w/ a 2" meter run. Recovered 54 bbl wtr w/gas rate of 111 MCF/D. FTP 60 psi Csg 140 psi. TBLR 965 BLTR +594 Day 13 DC: \$100 TACC: \$37,050 CC: \$95,190

02/12/93- 24 hrs flowing thru a test separator w/ a 2" meter run. Recovered 52 bbl wtr w/gas rate of 111 MCF/D. FTP 60 psi Csg 140 psi. TBLR 1017 BLTR +646 Day 14 DC: \$100 TACC: \$37,150 CC: \$95,290

02/13/93- 24 hrs flowing thru a test separator w/ a 2" meter run. Recovered 50 bbl wtr w/gas rate of 111 MCF/D. FTP 60 psi Csg 140 psi. TBLR 1067 BLTR +696 Day 15 DC: \$100 TACC: \$37,250 CC: \$95,390

02/14/93- 24 hrs flowing thru a test separator w/ a 2" meter run. Recovered 57 bbl wtr w/gas rate of 105 MCF/D. FTP 58 psi Csg 138 psi. TBLR 1124 BLTR +753 Day 16 DC: \$100 TACC: \$37,350 CC: \$95,490

02/15/93- 24 hrs flowing thru a test separator w/ a 2" meter run. Recovered 47 bbl wtr w/gas rate of 105 MCF/D. FTP 60 psi Csg 135 psi. TBLR 1171 BLTR +800 Day 17 DC: \$100 TACC: \$37,450 CC: \$95,590

02/16/93- 24 hrs flowing thru a test separator w/ a 2" meter run. Recovered 61 bbl wtr w/gas rate of 110 MCF/D. FTP 60 psi Csg 135 psi. Shut well in for pressure build up. TBLR 1232 BLTR +861 Day 18 DC: \$100 TACC: \$37,550 CC: \$95,690

02/17/93- 24 hours SITP 115 psi SICP 240 psi. TBLR 1232 BLTR +861 Day 19 DC: \$100 TACC: \$37,550 CC: \$95,690

02/18/93- 48 hours SITP 120 psi SICP 270 psi. TBLR 1232 BLTR +861 Day 20 DC: \$100 TACC: \$37,550 CC: \$95,690

02/19/93- 72 hours SITP 125 psi SICP 290 psi. TBLR 1232 BLTR +861 Day 21 DC: \$100 TACC: \$37,550 CC: \$95,690

02/20/93- 96 hours SITP 127 psi SICP 305 psi. TBLR 1232 BLTR +861

Day 22 DC: \$000 TACC: \$37,550 CC: \$95,690

02/21/93- 120 hours SITP 130 psi SICP 312 psi. TBLR 1232 BLTR +861

Day 23 DC: \$000 TACC: \$37,550 CC: \$95,690

02/22/93- 144 hours SITP 135 psi SICP 317 psi. TBLR 1232 BLTR +861

Day 24 DC: \$000 TACC: \$37,550 CC: \$95,690

FINAL REPORT

Spud well at 6:30 pm on 9/20/92. Drill 8 3/4" hole to 150' KB. Ran 3 jts 7" 20# surf csg and land at 145' KB. Cmt w/150 sxs Class 'B' + 3% CaCl, 1/4# sx cello seal. Drill to 1700'. Ran DIL/FDC/CNL/GR from 1700-144'. Ran 40 jts 4 1/2" 10.5# K-55 8R R-3 ST&C csg. Landed at 1695' KB. Cmt w/280 sxs Class 'B', tailed in w/20 sxs Class 'B'. Rel rig at 4:00 am on 9/23/92. Ran CBL/Gr/CCL log from 1641-25'. Perf the Fruitland Coal from 1527-1539' w/ a 3 1/8" csg gun 4 JSPF. Frac w/70 quality nitrogen foam 30#linear gel, 285 bbl 30# linear gel, 57,180# 20/40 brady sand. Est gas rate 105 MCF/D. CC: \$107,690