

Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

|   |
|---|
| WELL API NO.<br>30-045-28119  |
| 5. Indicate Type of Lease<br>STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> |
| 6. State Oil & Gas Lease No.  |
| 7. Lease Name or Unit Agreement Name<br>Gallegos Canyon Unit  |
| 8. Well No.<br>502  |
| 9. Pool name or Wildcat<br>W. Kutz Pictured Cliffs  |
| 10. Elevation (Show whether DF, RKB, RT, GR, etc.)<br>5422' GR                                      |

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A  
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"  
(FORM C-101) FOR SUCH PROPOSALS.)

|   |
|---|
| 1. Type of Well:<br>OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER  |
| 2. Name of Operator<br>BHP Petroleum (Americas), Inc.   |
| 3. Address of Operator<br>5847 San Felipe, Suite 3600, Houston, TX 77057  |
| 4. Well Location<br>Unit Letter <u>18</u> : <u>1580</u> Feet From The <u>South</u> <u>N</u> Line and <u>2315</u> <u>980</u> Feet From The <u>East</u> <u>W</u> Line<br>Section <u>15</u> <u>18</u> Township <u>29N</u> Range <u>12W</u> <u>12W</u> NMPM San Juan County |
| 10. Elevation (Show whether DF, RKB, RT, GR, etc.)<br>5422' GR  |

|   |   |
|---|---|
| 11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data |   |
| NOTICE OF INTENTION TO:   | SUBSEQUENT REPORT OF:   |
| PERFORM REMEDIAL WORK <input type="checkbox"/>                                | REMEDIAL WORK <input type="checkbox"/>                        |
| TEMPORARILY ABANDON <input type="checkbox"/>                                  | ALTERING CASING <input type="checkbox"/>                      |
| PULL OR ALTER CASING <input type="checkbox"/>                                 | COMMENCE DRILLING OPNS. <input type="checkbox"/>              |
| OTHER: <input type="checkbox"/>   | PLUG AND ABANDONMENT <input type="checkbox"/>                 |
|   | CASING TEST AND CEMENT JOB <input type="checkbox"/>           |
|   | OTHER: Completion History <input checked="" type="checkbox"/> |

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

The daily history of the completion operations and deviation survey information performed at the subject well are attached.

RECEIVED  
JUN 3 1991  
OIL CON. DIV.  
DIST. 3

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Beverly Comer TITLE Production Technician DATE 5/20/91  
TYPE OR PRINT NAME Beverly Comer TELEPHONE NO. 713/ 780-5000

(This space for State Use)

Original Signed by FRANK T. CHAVEZ SUPERVISOR DISTRICT # 3 DATE JUN 03 1991  
APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

BHP PETROLEUM (AMERICAS), INC.  
GALLEGOS CANYON UNIT NO. 502  
SEC. 18, T29N-R12W (SW/NW)  
WEST KUTZ PICTURED CLIFFS FIELD  
SAN JUAN COUNTY, NEW MEXICO

WELL COMPLETION HISTORY

11/19/90 - TD: 148' MIRU SPUD well at 6:00pm on 11/18/90. Drill 8 3/4" hole to 148' KB using 3 bits. POOH, PU 8-3/34" mill and ream bottom 10' of hole. Bit No. 1 8-3/34": HTC J1 RR in @ 10', out @ 50'. Bit No. 2 8-3/4" HTC A45 RR in @ 50', out @ 80'. Bit No. 3 8-3/4" HTC J22 Ser No. 57858 in @ 80' out @ 148'. POOH, WT. all, RPM 100, psi 1000, SPM 60, MW 8.3, Vis 28, 14-4 3/4" DCs. Drill 8-1/2 hrs, reaming 1 hr, cond & circ 1/4 hr, trip 3 hrs, lub rig 1/4 hr. DMC: \$400 DC: 6,011.

11/20/90 - Drlg @ 255' (107') LD DC RU 3 jts 7" 20# J-55 8R ST&C csg & land @ 143' KB. Cmt'd w/130 sxs Class "B" w/2% CaCL & 1/4# sk cello seal. Obtained full returns w/ 10 BBL cmt circ to surface. Plug dn @ 9:00am on 11/19/90. WOC Nu BOPE test csg & blind rams to 2000 psi, pipe rams to 1500 psi & annular to 500 psi. TIH drill out cmt & drill 6 1/4" hole to 255' using 3 bits. Drilling on metal. WT. all, RPM 100, psi 1000, SPM 60, lxs 5.5 Bit No. 4 6-1/4" Varel V517 RR in @ 148' out @ 195'. Bit No. 5 6-1/4" Varel V517 RR in @ 195' out @ 200'. Bit No. 6 6-1/4" Varel V517 RR jets 3/13 in @ 200'. WOB all, RPM 100, psi 1000, SPM 60, MW 8.3 Vis 28, PV/YP 5/2, gels 0/1, WL 14.2, pH 10.5, solids 3.5. Drlg 3 3/4 hrs, Reaming 5-3/4 hrs, Trips 2 1/4 hrs, rig repair 1/2 hr. run csg & cmt 1-1/2 hrs, WOC 5 hrs, NUBOP/Test 4-1/4 hrs, drl cmt 1/2 hr, lay dn DP 1/2 hr. DMC: \$300 CMC: \$700 DC: \$6,822 TAC: \$ 12,833

11/21/90- Drlg @ 1227' (972') Drilling on junk. Mill and fish junk out of hole. TIH and drill to 275'. POOH, look at bit. TIH w/new bit and drill 6-1/4" hole to 1227' with surveys at 546' and 1012'. Bit No. 8 6-1/4" Varel V517 2/14 Ser No. 56649 in @ 275'. WOB all, RPM 100, psi 1000, SPM60, MW 8.5, Vis 29. Dev survey 1/2° @ 546' and 1012'. Drill 11-1/2 hrs, trip 1 hr, lub rig 1/4 hr, survey 1/4 hr, fishing 11 hrs. DMC: \$250 CMC: \$950 DC: \$10,284 TAC: \$23,117

11/22/90- TD: 1595' (368') Drill 6-1/4" hole to 1595'. Circ and cond for logs. Short trip to 143', POH RU HLS and log well log TD 1595'. Ran DIL/SP/GR/SDL/DSN/Coal logs. TIH POH, LD DP & DC. RU and ran 39 jts 4-1/2" 8R 10.5# J-55 ST&C csg and landed at 1586' KB. Cmt'd w/185 sx lead 50/50 poz 2% gel, 10% salt, 1/4# sx cello Seal and 30 sx trail Class "B" low fluid loss. Obtained full returns w/3 bbl cmt to surf. Bump plug and float held. Plug dn @ 2:00 am on 11/22/90. ND BOPE and jet pit. Release rig at 6:00 am on 11/22/90. Bit No. 8 6-1/4" Varel V517 Ser No. 56649 in @ 275' out @ 1595'. WOB all, RPM 100, psi 1000, SPM 60. MW 8.9, Vis 68, PV/YP 18/12 Gels 4/15, WL 8.0, pH 9.0, FC/32 2, Solids 5, % Sand 1/2. DCs 14-4 3/4. Drill 3-3/4 hrs, cond & circ 2-1/4 hrs, trip 4-1/2 hrs, lub rig 1/4 hr, survey 1/4 hr, WL logs 3-1/4 hrs, run csg & cmt 3 hrs, lay DN DP 1-3/4 hrs, ND BOP & jet 4 hrs. DMC: \$750 CMC: \$1,700 DC: \$28,235 TAC: \$51,352 WOCT

12/28/90- TD: 1595' WOCT.

12/29/90- TD: 1595' WOCT.

**12/30/90-** TD: 1595' WOCT.

**01/15/91-** TD: 1595' PBTD: 1539' Perfs 1429-1444' MIRU. NU BOPE, PU 3-7/8" bit, 4-1/2" csg scraper on 2-3/8" tbg and TIH. Tag PBTD at 1539' KB. Circulate hole clean with 2% KCL and additives. Pressure test csg and BOPE to 2500 psi. RU Electric Line and ran a GR/CCL log. Perforate the Pictured Cliffs from 1429' to 1444' with 3-1/8" 90° phased premium charged csg gun at 4 JSPF. All shots fired, no pressure to surface. DC: \$4,500 TACC: \$4,500 TAC: \$55,852

**01/16/91-** TD: 1595' PBTD: 1539' Perfs 1429-1444' MI frac tank. Fill with 2% KCL and heat. WO frac crew. DC: \$2,000 TACC: \$6,500 TAC: \$57,852

**01/17/91-** TD: 1595' PBTD: 1539' Perfs 1429-1444' RU BJ no pressure on well. Fracture stimulate the Pictured Cliffs dn 4-1/2" csg with 10,080 gal 30# linerar gel and 61,800# of 12/20 Brady sand at 25 BPM. Max pressure 1454 psi, avg 1300 psi avg rate 25 BPM. Max sand conc 5 ppg. ISIP 1316 psi. Bled back for closure. 15 min 1130 psi, load to recover 240 bbl. 4 hour SICP 400 psi. Open well to frac tank on a 3/8" choke. DC: \$22,600 TACC: \$27,300 TAC: \$80,452

**01/18/91-** TD: 1595' PBTD: 1539' Perfs 1429-1444' 17 hours flowing well on a 3/8" choke. FCP 0 psi. Recovered 40 bbl load. DC: \$300 TACC: \$27,600 TAC: \$80,752

**01/19/91-** TD: 1595' PBTD 1539' Perfs 1429-1444' MIRU PU tbg with expendable check on bottom and TIH. Tag sand at 1500', clean to PBTD with N/2. Pull up and land tbg with 45 jts 2-3/8" 4.7# 8R J-55 EUE at 1465' KB with SN at 1433; KB. Kill well with 50 bbl 2% KCL. ND BOPE NU well head. Drop ball and pump off expendable check. RU and swab back 20 bbl. Well kicked off flowing. Left well flowing on a 3/8" pos choke. FTP 100 psi. TBLR 60 BLTR 230 Days 5 DC: \$9,200 TACC: \$36,800 TAC: \$89,952

**01/20/91-** TD: 1595' PBTD 1539' Perfs 1429-1444' 14 hours flowing through a 3/8" pos choke. FTP 180 psi, csg 260 psi. Recovered 255 bbl water with an est gas rate of 300 MCF/D. DC: \$0 TACC: \$36,800 TAC: \$89,952

**01/21/91-** TD: 1595' PBTD 1539' Perfs 1429-1444' 24 hours flowing through a 3/8" pos choke. FTP 145 psi, csg 250 psi. Recovered 150 bbl water with an est gas rate of 250 MCF/D. DC: \$500 TACC: \$37,300 TAC: \$90,452

**01/22/91-** TD: 1595' PBTD 1539' Perfs 1429-1444' 24 hours flowing through a 3/8" pos choke. FTP 142 psi, csg 250 psi. Recovered 138 bbl water with an est gas rate of 225 MCF/D. DC: \$0 TACC: \$37,300 TAC: \$90,452

**01/23/91-** TD: 1595' PBTD 1539' Perfs 1429-1444' 24 hours flowing through a 3/8" pos choke. FTP 142 psi, csg 242 psi. Recovered 123 bbl water with an est gas rate of 225 MCF/D. Move in and hook up test separator with gas meter run. TBLR 726 BLTR +436 Days 9 DC: \$0 TACC: \$37,300 TAC: \$90,452

**01/24/91-** TD: 1595' PBTD 1539' Perfs 1429-1444' 24 hours flowing through a 3/8" pos choke. FTP 150 psi, csg 232 psi. Recovered 105 bbl water with an est gas rate of 300 MCF/D. TBLR 831 BLTR +541 Days 10 DC: \$1,500 TACC: \$38,800 TAC: \$91,952

**01/25/91-** TD: 1595' PBTD 1539' Perfs 1429-1444' 24 hours flowing through test separator. FTP 152 psi, csg 238 psi. Recovered 140

bbl water with an est gas rate of 289 MCF/D. TBLR 971 BLTR +681  
Days 11 DC: \$300 TACC: \$39,100 TAC: \$92,252

01/26/91- TD: 1595' PBTD 1539' Perfs 1429-1444' 24 hours flowing  
through test separator. FTP 160 psi, csg 230 psi. Recovered 90 bbl  
water with an est gas rate of 277 MCF/D. TBLR 1061 BLTR +771 Days  
12 DC: \$500 TACC: \$39,600 TAC: \$92,752

01/27/91- TD: 1595' PBTD 1539' Perfs 1429-1444' 24 hours flowing  
through test separator. FTP 135 psi, csg 215 psi. Recovered 120  
bbl water with an est gas rate of 367 MCF/D. TBLR 1181 BLTR +891  
Days 13 DC: \$0 TACC: \$39,600 TAC: \$92,752

01/28/91- TD: 1595' PBTD 1539' Perfs 1429-1444' 24 hours flowing  
through test separator. FTP 120 psi, csg 220 psi. Recovered 137  
bbl water with an est gas rate of 367 MCF/D. TBLR 1318 BLTR +1028  
Days 14 DC: \$0 TACC: \$39,600 TAC: \$92,752

01/29/91- TD: 1595' PBTD 1539' Perfs 1429-1444' 24 hours flowing  
through test separator. FTP 135 psi, csg 210 psi. Recovered 106  
bbl water with an est gas rate of 372 MCF/D. TBLR 1424 BLTR +1134  
Days 15 DC: \$0 TACC: \$39,600 TAC: \$92,752

01/30/91- TD: 1595' PBTD 1539' Perfs 1429-1444' 24 hours flowing  
through test separator. FTP 118 psi, csg 205 psi. Recovered 127  
bbl water with an est gas rate of 372 MCF/D. Shut in waiting in  
pipeline. TBLR 1551 BLTR +1261 Days 16 DC: \$1,000 TACC: \$40,600  
TAC: \$93,752 DROP FROM REPORT.