

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. 30-045-28170
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Gallegos Canyon Unit
8. Well No. 509
9. Pool name or Wildcat W. Kutz Pictured Cliffs

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: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER
2. Name of Operator BHP Petroleum (Americas), Inc.
3. Address of Operator 5847 San Felipe, Suite 3600, Houston, TX 77057

4. Well Location Unit Letter D : 978 Feet From The North Line and 1148 Feet From The West Line Section 28 Township 29N Range 12W NMPM San Juan County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)
5329' 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 5/30/91
TYPE OR PRINT NAME Beverly Comer TELEPHONE NO. 713/780-5000

(This space for State Use)

APPROVED BY Original Signed by FRANK T. CHAVEZ TITLE SUPERVISOR DISTRICT # 3 DATE JUN 0 1991

CONDITIONS OF APPROVAL, IF ANY:

**BHP PETROLEUM (AMERICAS) INC.
GALLEGOS CANYON UNIT NO. 509
API NO. 30-045-28170**

ROSEMARIE MURPHY
NOTARY PUBLIC, STATE OF TEXAS
MY COMMISSION EXPIRES
APR. 20, 1993

**BHP PETROLEUM (AMERICAS), INC.
GALLEGOS CANYON UNIT NO. 509
SEC 28, T29N-R12W (NE/NW)
WEST KUTZ PICTURED CLIFFS FIELD
SAN JUAN COUNTY, NEW MEXICO**

WELL COMPLETION HISTORY

01/07/91- MIRU Spud well at 11:00 pm on 1/6/91. Drill 8-3/4" hole to 143' KB. LD DC. Bit No 1 STCEL 8-3/4" 33SF Ser No 11265 Jets 1/32 3/12 in @ 10' out at 70". Bit No 2 8-3/4" Varel V527 Ser No 57946 in @ 70' out @ 134'. Jets 1/32 3/12. WOB all RPM 80 psi 600 SPM 60 MW 8.6 Vis 60 14-4 3/4 DCs. Drill 3 hrs, lub rig 1/4 hr, repair rig 3-3/4 hrs, lay dn DP 1 hr. DMC: \$400 DC: \$9,200 TAC: \$9,200

01/08/91- Drlg 350' (216') RU and ran 3 jts 7" 20# K-55 8R ST&C csg and landed at 130' KB. RU Western and cemented with 125 sxs Class "B" with 3% CaCl and 1/4# sx cello seal. Obtained full returns with 10 bbl cement circulated to surface. Plug down at 8:30 am on 1/7/91. WOC NU BOPE test csg and blind rams to 2000 psi, pipe rams to 1500 psi and annular to 500 psi. Drill out cement and drill 6-1/4" hole to 350'. Bit No 2 8-3/4" Varel V527 Ser No 57946 in at 70' out at 134', Jets 1/32 3/12. Bit No 3 6-1/4" Varel V517 Ser No 55704 in at 134'. Jets 1/32 2/14. DCs 14-4 3/4. WOB all RMP 80 psi 800 SPM 60 MW 8.7 Vis 30. Drill 5-1/2 hrs, lub rig 1/2 hr, rep rig 5 hrs, run csg & cmt 1-1/2 hrs, WOC 5 hrs, NU BOP/Test 6 hrs. DMC: \$600 CMC: \$1,000 DC: \$5,850 TAC: \$15,050

01/09/91- Drlg 1415' (1065') Drill 6-1/4" hole to 1415' with one survey, 1/2° @ 607'. Circulate and condition, short trip to DC. Circulate and condition, POOH for logs. Bit No 3 6-1/4" Varel V517 Ser No 55704 in at 134', out at 1415'. Jets 1/32 2/14. DCs 14-4 3/4. WOB all RMP 80 psi 800 SPM 60 MW 10.6 Vis 66. Drill 16-1/4 hrs, cond & circ 4-3/4 hrs, trip 1-1/4 hrs, lub rig 1 hr, rep rig 1/2 hr, dev survey 1/4 hrs. DMC: \$600 CMC: \$1,600 DC: \$13,000 TAC: \$28,050

01/10/91- Drlg 1415' (0') Spot 14# pill at 450'. POH, RU HLS, log TD 1413'. Ran FDC/CNL/GR/DIL/Coal logs. TIH drop survey & circ. TOH, LD DP. RU and ran 34 jts 4-1/2" 10.5# J-55 8R ST&C csg and landed at 1412' KB. RU Western and cement lead 260 sxs 50/50 Poz, 2% gel, 10% salt, 1/4# Cello Seal and tail in w/20 sxs "B" w/ 1.5% CF-18 low fluid loss. Obtained full returns w/18 bbl cement circ to surface. Bump plug, float held. Plug dn @7:15 pm on 1/9/91 cond & circ 1/12 hrs, trip 1-3/4 hrs, lub rig 1/4 hr, log 3-1/2 hrs, run csg & cmt 3 hrs, survey 1/4 hrs. MW 11.2 Vis 62 PV/YP 25/16 Gels 12/30 WL 7.6 pH 9 FC/32 2 Solids 6 % Sand 1. DMC: \$2,400 CMC: \$4,000 DC: \$24,250 TAC: \$52,300

02/15/91- Depth 1415' (MIRU PU Bit & csg scraper on 2 3/8' tbg & tally in hole. Tagged PBTD @ 1363' KB Circ. hole w/2% KCL & add. Pressure test csg & BOPE to 2500 psi. POOH w/tbg. Rig up elec line & ran GR/CCL. Perforate Pictured Cliffs fm from 1273' to 1289' w/3 1/8" premium charged, 90 deg. phased csg gun @ 4 jspf no pressure to surface. RD elec line, all shots fired. SI, MI set frac tank, fill & heat. SDFN. DC: \$4,400 TAC: \$56,700

02/16/91- TD: 1415' PBTD:1363' Perfs 1273-1289'. 0 Pressure on

well. RU BJ and fracture stimulate the Pictured Cliffs dn 4-1/2" csg w/8600 gal 30# Linear gel, 70 quality foam and 62,000# 20/40 Brady Sand at 25 BPM inj. IR 192 in fluid and SC 46 in propant. Max pressure 1700 psi, avg 800 psi. Avg rate 25 BPM ISIP 973 psi. Bled back to induce closure. Load to recover 204 bbl. 15 min. 787 psi. 4 hr SICP 395 psi. Open well to frac tank on a 3/8" choke. Well died in 2 hrs. Rec 12 bbl fluid. TBLR:12 BLTR 192 Days 2 DC: \$25,600 TACC: \$30,000 TAC: \$82,300

02/17/91- TD: 1415' PBDT: 1363' Perfs: 1273-1289' Well dead. RU GIH w/tbg. Tag sand at 1256' KB. Clean out to PBDT w/2% KCL and additives. RU Electric Line and ran tracer check log from PBDT to 1200'. Frac in zone. RD Electric Line TIH w/452 jts 2-3/8" 4.7# 8RD J-55 EUE tbg. and land at 1211' KB w/SN at 1299' KB. ND BOPE. NU well head. RU to swab. Swab 65 bbl fluid. No gas to surface. SDFN. TBLR 77 TLTR 127 Days 3 DC: \$6,000 TACC: \$36,000 TAC \$88,300

02/18/91- TD: 1415' PBDT: 1363; Perfs: 1273-1289' No operation. TBLR 77 BLTR 127 Days 4 DC: \$0 TACC: \$36,000 TAC: \$88,300

02/19/91- TD: 1415' PBDT: 1363; Perfs: 1273-1289' SITP 0, SICP 150. Ran swab tagged fluid at 800'. Swab back 10 bbl in 3 runs. Well kicked off flowing at 160 psi. Flow well to frac tank through a 3/8" pos choke. TBLR 87 BLTR 117 Days 5 DC: \$800 TACC: \$36,800

02/20/91- TD: 1415' PBDT: 1363; Perfs: 1273-1289' 20 HRS Flowing through a 3/8" pos choke FTP 155 psi, FCP 275 rec. 82 BBLs. Water w/estimated gas rate of 250/mcf/d. TBLR 169 BLTR 35 Days 6 DC: \$00 TACC: \$36,800 TAC: \$89,100

02/21/91- TD: 1415' PBDT: 1363; Perfs: 1273-1289' 24 hrs flowing through a 3/8" pos choke. FTP 125 psi, FCP 239. Rec 167 bbls water w/estimated gas rate of 215 MCF/D. TBLR 336 BLTR +132 Days 7 DC: \$600 TACC: \$37,400 TAC: \$89,700

02/22/91- TD: 1415' PBDT: 1363; Perfs: 1273-1289' 24 hrs flowing through a 3/8" pos choke. FTP 149 psi, FCP 240. Rec 167 bbls water w/estimated gas rate of 241 MCF/D. TBLR 481 BLTR +277 Days 8 DC: \$00 TACC: \$37,400 TAC: \$89,700

02/23/91- TD: 1415' PBDT: 1363'; Perfs: 1273-1289' 24 hrs flowing through a test separator with a 2" meter run. FTP 150 psi, FCP 240. Rec 90 bbls water w/estimated gas rate of 151 MCF/D. TBLR 571 BLTR +367 Days 9 DC: \$1,000 TACC: \$38,400 TAC: \$90,700

02/24/91- TD: 1415' PBDT: 1363'; Perfs: 1273-1289' 24 hrs flowing through a test separator with a 2" meter run. FTP 149 psi, FCP 240. Rec 92 bbls water w/estimated gas rate of 115 MCF/D. TBLR 663 BLTR +459 Days 10 DC: \$5,000 TACC: \$43,400 TAC: \$95,700

02/25/91- TD: 1415' PBDT: 1363'; Perfs: 1273-1289' 24 hrs flowing through a test separator with a 2" meter run. FTP 140 psi, FCP 240. Rec 83 bbls water w/estimated gas rate of 164 MCF/D. TBLR 746 BLTR +542 Days 11 DC: \$000 TACC: \$43,400 TAC: \$95,700

02/26/91- TD: 1415' PBDT: 1363'; Perfs: 1273-1289' 24 hrs flowing through a test separator with a 2" meter run. FTP 146 psi, FCP 240. Rec 75 bbls water w/estimated gas rate of 120 MCF/D. TBLR 821 BLTR +617 Days 12 DC: \$000 TACC: \$43,400 TAC: \$95,700

02/27/91- TD: 1415' PBDT: 1363'; Perfs: 1273-1289' 24 hrs flowing through a test separator with a 2" meter run. FTP 149 psi, FCP 240. Rec 80 bbls water w/estimated gas rate of 122 MCF/D. TBLR 901 BLTR +697 Days 13 DC: \$300 TACC: \$43,700 TAC: \$96,700

02/28/91- TD: 1415' PBDT: 1363'; Perfs: 1273-1289' 24 hrs flowing

through a test separator with a 2" meter run. FTP 150 psi, FCP 240. Rec 62 bbls water w/estimated gas rate of 135 MCF/D.

03/01/91- TD: 1415' PBTD: 1363'; Perfs: 1273-1289' 24 hrs flowing through a test separator with a 2" meter run. FTP 150 psi, FCP 240. Rec 58 bbls water w/estimated gas rate of 142 MCF/D. TBLR 1021 BLTR +817 Days 15 DC: \$500 TACC: \$44,200 TAC: \$96,500

03/02/91- TD: 1415' PBTD: 1363'; Perfs: 1273-1289' 24 hrs SITP 215 psi, SICP 58 psi. TBLR 1021 BLTR +817 Days 16 DC: \$000 TACC: \$44,200 TAC: \$96,500

03/03/91- TD: 1415' PBTD: 1363'; Perfs: 1273-1289' 48 hrs SITP 265 psi, SICP 280 psi. TBLR 1021 BLTR +817 Days 17 DC: \$000 TACC: \$44,200 TAC: \$96,500

03/04/91- TD: 1415' PBTD: 1363'; Perfs: 1273-1289' 72 hrs SITP 235 psi, SICP 240 psi. TBLR 1021 BLTR +817 Days 18 DC: \$000 TACC: \$44,200 TAC: \$96,500

03/05/91- TD: 1415' PBTD: 1363'; Perfs: 1273-1289' 96 hrs SITP 240 psi, SICP 265 psi. TBLR 1021 BLTR +817 Days 19 DC: \$000 TACC: \$44,200 TAC: \$96,500

03/06/91- TD: 1415' PBTD: 1363'; Perfs: 1273-1289' 120 hrs SITP 245 psi, SICP 270 psi. TBLR 1021 BLTR +817 Days 20 DC: \$000 TACC: \$44,200 TAC: \$96,500

03/07/91- TD: 1415' PBTD: 1363'; Perfs: 1273-1289' 146 hrs SITP 250 psi, SICP 265 psi. TBLR 1021 BLTR +817 Days 21 DC: \$000 TACC: \$44,200 TAC: \$96,500

03/08/91- TD: 1415' PBTD: 1363'; Perfs: 1273-1289' 170 hrs SITP 265 psi, SICP 265 psi. DROP FROM REPORT. TBLR 1021 BLTR +817 Days 22 DC: \$000 TACC: \$44,200 TAC: \$96,500