

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. SF 080614
2. Name of Operator BHP Petroleum (Americas), Inc.	8. Well Name and No. Gallegos Canyon Unit 500
3. Address and Telephone No. 5847 San Felipe, Suite 3600, Houston, TX 77057	9. API Well No. 30-045-28414
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) (NE/NW) 1175' FNL & 1585' FWL C Section 13-T29N-R13W	10. Field and Pool, or Exploratory Area W. Kutz Pictured Cliffs
	11. County or Parish, State San Juan, NM

12. 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 history</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.)*

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

RECEIVED

MAY 31 1991

OIL CON. DIV.
DIST. 3

ACCEPTED FOR RECORD

MAY 31 1991

FARMINGTON FIELD AREA

BY 5-20

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

Signed

Beverly Comer

Title Production Technician

Date 5/13/91

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

BHP PETROLEUM (AMERICAS) INC.
GALLEGOS CANYON UNIT NO. 500
API NO. 30-045-28414

<u>DEPTH</u>	<u>DEVIATION</u>
640'	1/2°
1106'	1/2°

This is to certify that to the best of my knowledge the above tabulation details the deviation tests taken in the BHP PETROLEUM (AMERICAS) INC.'S Gallegos Canyon Unit No. 500 located 1175' FNL & 1585' FWL of Section 13, T29N-R13W in San Juan County, New Mexico.

Signed Beverly Comer
Beverly Comer

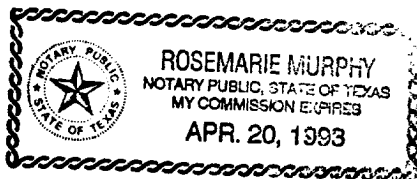
THE STATE OF TEXAS))
COUNTY OF HARRIS) SS.

BEFORE ME, the undersigned authority, on this day personally appeared Beverly Comer known to me to be Production Technician for BHP Petroleum (Americas) Inc. and to be the person whose name is subscribed to the above statement, who, being by me duly sworn on oath, states that he has knowledge of the facts stated herein and that said statement is true and correct.

SUBSCRIBED AND SWORN TO before me, a Notary Public in and for said County and State this 10th day of April 1991.

Rosemarie Murphy
Notary Public

My Commission Expires 4/20/93



BHP PETROLEUM (AMERICAS), INC.
GALLEGOS CANYON UNIT NO. 500
SEC. 13, T29N-R13W (NE/NW)
WEST KUTZ PICTURED CLIFFS FIELD
SAN JUAN COUNTY, NEW MEXICO

WELL COMPLETION HISTORY

11/24/90- MIRU, spud well at 4:00 pm on 11/23/90. Drill 8-3/5" hole to 171' KB. POOH, RU and ran 4 jts 7" 20# K-55 ST&C csg and landed at 161' KB. RU and cement with 130 sxs Class "B" w/2% CaCl and 1/4# sx cello sela. Obtained full returns with 12 bbl cement circ to surface. Plug dn at 12:20 am on 11/24/90. WOC NU BOPE. Bit No. 1 8-3/4" Smith DJG Ser No 965J2 in @ 10', out @ 148'. Jets 1/32 2/14. Bit No. 2 8-3/4" Smith S86P Ser No. 73846 in at 148', out @ 171'. WOB all, @ 100 RPM, psi 1000, SPM 60, MW 8.2, Vis 29. DCs 14-4/34". Drilling 6-1/4 hrs, cond & circ 1/4 hr, trip 1 hr, run csg & cmt 2 hrs, WOC 5 hrs, NUBOP 1/2 hr. DMC: \$400 DC: \$10,930 TAC: \$10,930

11/25/90- Depth 1011' (840') NU BOPE and test with Quadco. Change out flange on bottom of BOP and nipple on choke manifold. Tested csg and blind rams to 2,000 psi, pipe rams to 1,500 psi and annular to 500 psi. Testing witnessed by City Fire Marshal. Drill out cmt and drill 6-1/4" hole to 1011' with one survey. Bit No. 3 in @ 148 6-1/4" Varel V517 Ser No. 55727. WOB all, 80 RPM, psi 750, SPM 60, MW 8.4, Vis 28, WL 10.6. DCs 14-4 3/4". Dev survey 1/2° @ 640'. Drill 10-1/2 hrs, lub rig 1/2 hr, dev survey 1/4 hr, NU BOP/Test 11-3/4 hrs, drl cmt 1 hr. DMC: \$400 CMC: \$800 DC: \$11,080 TAC: \$22,010.

11/26/90- Depth 1486' (475') Drill 6-1/4" hole to 1454' w/one survey. Circ and cond, short trip to DC. POH, RU HLS and log. Log TD 1454'. Ran DIL/GR/SDL/DSN & Coal Analysis. RD, TIH & drill to 1486'. Circ and cond for csg. POH, LD DP & DC. RU & ran 36 jts 4-1/2" 8R 10.5# J-55 ST&C csg and landed @ 1482' KB. RU BJ and cmted w/180 sxs lead, 50/50 Poz, 2% gel, 10% salt, 1/4# sx Cello Seal and tail in w/25 sx Class "B", 1.2% FL19 low fluid loss. Obtained full returns w/2 bbl cmt to surface. Bump plug, float held. Plug down at 5:30 am on 11/26/90. ND BOPE. Bit No. 3 6-1/4" Varel V517 Ser No. 55727 in at 148', out at 1486'. Survey 1/2° at 1106'. 14-4 3/4 DCs. WOB all, RPM 80, psi 1000, SPM 60, MW 9.2, Vis 58, PV/YP 18/12, Gels 5/14, WL 8.4, pH 10, FC/32 2, Solids 5, % sand 1/2. Drill 6 hrs, cond & circ 1-1/2 hr, trip 5-1/2 hrs, lub rig 1/4 hr, rep rig 2-1/4 hrs, dev survey 1/4 hr, WL logs 3-1/4 hrs, run csg & cmt 3-1/2 hrs, ND BOP & jet 1-1/2 hrs. DMC: \$750 CMC: \$1,550. DC: \$26,707 TAC: \$48,717

11/27/90- TD: 1486' Finish ND BOPE and jet pit. Release rig at 9:30 am on 11/26/90. WOCT. ND BOP & jet 2-1/2 hrs. CMC: \$1,550 DC: \$438 TAC: \$49,155

12/28/90- TD: 1486' WOCT. CMC: \$1,550 DC: \$438 TAC: \$49,155

12/29/90- TD: 1486' WOCT. CMC: \$1,550 DC: \$438 TAC: \$49,155

12/30/90- TD: 1486' WOCT. CMC: \$1,550 DC: \$438 TAC: \$49,155

01/05/91- TD: 1486' PBTB: 1423' Perfs 1310-1325'. MIRU NU BOPE PU 3-7/8" bit, 4-1/2" csg scraper on 2-3/8" tbq and tally in hole.

Tag PBTD at 1423' KB. Circulate hole clean with 2% KCL and additives. Test csg and BOPE to 2500 psi. TOH w/tbg. RU and ran GR/CCL log and perforate the Pictured Cliffs from 1310- to 1325' with 3-1/8", 90 deg phased premium charged csg gun at 4 JSPF. All shots fired, no pressure to surface. Heat frac water. SDFN. DC: \$5,000 TACC: \$5,000 TAC: \$54,155

01/06/91- TD: 1486' PBTD: 1423' Perfs 1310-1325' . 0 pressure on well. RU BJ and fracture stimulate the Pictured Cliffs dn 4-1/2" csg with 10,122 gal 30# linear gel, 70 quality foam and 52,400# 12/20 mesh sand at 22 BPM. Max pressure 1118 psi, avg 1050 psi, avg rate 22 BPM. Max sand conc 5 ppg, ISIP 1088 psi, bled back to induce closure. 15 min 910 psi, 4 hr SICP 400 psi. Open well to frac tank on a 3/8" pos choke. BBL load to recover 241 bbl. TBLR 0 BLTR 241 Days 2. DC: \$22,600 TACC: \$27,600 TAC: \$76,755

01/07/91- TD: 1486' PBTD: 1423' Perfs 1310-1325' . 16 Hours flowing on a 3/8" pos choke. FCP 280 psi. Recovered 252BBL load with an est gas rate of 600 MCF/D. TBLR 252 BLTR +11 Days 3. DC: \$600 TACC: \$28,200 TAC: \$77,355

01/08/91- TD: 1486' PBTD: 1423' Perfs 1310-1325' . 24 Hours flowing on a 3/8" pos choke. FCP 250 psi. Recovered 50 BBL load with an est gas rate of 550 MCF/D. Kill well with 25 bbl 2% KCL water & additives. TIH with tbg and tag up at 1323' KB. Clean out to PBTD. Land tbg with 42 jts 2-3/8" 4.7# J-55 8R EUE at 1323' KB with SN at 1292' KB. ND BOPE, NU well head. RU and swab back 7 bbl and well kicked off flowing. Left well flowing through a 3/8" pos choke. TBLR 309 BLTR +43 Days 4. DC: \$7,600 TACC: \$35,800 TAC: \$84,955

01/09/91- TD: 1486' PBTD: 1423' Perfs 1310-1325' . 12 Hours flowing through a test separator on a 21/64" choke. FTP 225 psi, csg 300 psi. Recovered 93 BBL water with an est gas rate of 272 MCF/D. TBLR 402 BLTR +136 Days 5. DC: \$1,600 TACC: \$37,400 TAC: \$86,555

01/10/91- TD: 1486' PBTD: 1423' Perfs 1310-1325' . 24 Hours flowing through a test separator on a 48/64" choke. FTP 160 psi, csg 270 psi. Recovered 264 BBL water with an est gas rate of 500 MCF/D. TBLR 666 BLTR +400 Days 6. DC: \$600 TACC: \$38,000 TAC: \$87,155

01/11/91- TD: 1486' PBTD: 1423' Perfs 1310-1325' . 24 Hours flowing through a test separator on a 48/64" choke. FTP 160 psi, csg 255 psi. Recovered 190 BBL water with an est gas rate of 550 MCF/D. TBLR 856 BLTR +590 Days 7. DC: \$600 TACC: \$38,600 TAC: \$87,755

01/12/91- TD: 1486' PBTD: 1423' Perfs 1310-1325' . 24 Hours flowing through a test separator on a 48/64" choke. FTP 160 psi, csg 265 psi. Recovered 182 BBL water with an est gas rate of 550 MCF/D. TBLR 1038 BLTR +772 Days 8. DC: \$600 TACC: \$39,200 TAC: \$88,355

01/13/91- TD: 1486' PBTD: 1423' Perfs 1310-1325' . 24 Hours flowing through a test separator on a 48/64" choke. FTP 160 psi, csg 265 psi. Recovered 163 BBL water with an est gas rate of 575 MCF/D. TBLR 1201 BLTR +935 Days 9. DC: \$600 TACC: \$39,800 TAC: \$88,955

01/14/91- TD: 1486' PBTD: 1423' Perfs 1310-1325' . 24 Hours flowing through a test separator on a 48/64" choke. FTP 160 psi, csg 260 psi. Recovered 160 BBL water with an est gas rate of 600 MCF/D. TBLR 1361 BLTR +1095 Days 10. DC: \$600 TACC: \$40,400 TAC: \$89,555

01/15/91- TD: 1486' PBTD: 1423' Perfs 1310-1325' . 24 Hours SITP 340 psi, SICP 340 psi. TBLR 1361 BLTR +1095 Days 11. DC: \$0 TACC: \$40,400 TAC: \$89,555 DROP FROM REPORT.