

Submit to Appropriate  
District Office  
State Lease - 6 copies  
Fee Lease - 5 copies  
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

State of New Mexico  
Energy, Minerals and Natural Resources Department

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

Form C-105  
Revised 1-1-89

WELL API NO.

30-045-28601

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:  
OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER Salt Water Disposal

7. Lease Name or Unit Agreement Name

b. Type of Completion:

NEW  
WELL ☒

WORK  
OVER ☐

DEEPEN ☐

PLUG  
BACK ☐

DIFF  
RESVR ☐

OTHER ☐

Gallegos Canyon Unit

2. Name of Operator

BHP Petroleum (Americas) Inc.

8. Well No.

13 SWD #1

3. Address of Operator

5847 San Felipe, Suite 3600, Houston, Texas 77057

9. Pool name or Wildcat

Mesa Verde

4. Well Location

Unit Letter J : 1467 Feet From The South Line and 2350 Feet From The East Line

Section 13 Township 29N Range 13W NMPM San Juan County

10. Date Spudded

11/21/91

11. Date T.D. Reached

12/1/91

12. Date Compl. (Ready to Prod.)

1/12/92

13. Elevations (DF & RKB, RT, GR, etc.)

GR 5416

14. Elev. Casinghead

15. Total Depth

4008

16. Plug Back T.D.

3973

17. If Multiple Compl. How Many Zones?

18. Intervals Drilled By

Rotary Tools

Cable Tools

0-4008'

19. Producing Interval(s), of this completion - Top, Bottom, Name

Point Lookout 3736'-3762'/Menefee 3291'-3604'/Cliff House 2870-2972'

20. Was Directional Survey Made

No

21. Type Electric and Other Logs Run

DIGL AND DSNL; CBE GR & CL

22. Was Well Cored

No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24	337'	12-1/4"	2155 sx TS Class B	
5-1/2"	155	4007'	7-7/8" / 112	1st 650 sx 50/50 Poz around shoe	
				2nd 280 sx 65/35 Poz followed by	
				180 sx Class B circ. thru Dy tool	
				w/full returns & 25 bbls. cmt. T.S.	

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	25. TUBING RECORD	SIZE	DEPTH SET	PACKER SET
					2-7/8" 8rd	2800'	2770'	

26. Perforation record (interval, size, and number)

3736'-3762' w/8 JSPF 4" csg gun 208 holes  
3291'-3604' w/8 JSPF 4" csg gun 1032 holes  
2870'-2972' w/8 JSPF 4" csg gun 632 holes

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL

AMOUNT AND KIND MATERIAL USED

28. PRODUCTION

Date First Production

Production Method (Flowing, gas lift, pumping - Size and type pump)

Well Status (Prod. or Shut-in)

Date of Test

Hours Tested

Choke Size

Produ For  
Test Period

Oil - Bbl.

Gas - MCF

Water - Bbl.

Gas - Oil Ratio

Flow Tubing Press.

Casing Pressure

Calculated 24-  
Hour Rate

Oil - Bbl.

Gas - MCF

Water - Bbl.

Oil Gravity - API - (Corr.)

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Test Witnessed By

30. List Attachments

Logs listed above

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature

Carl Kolbe

Printed

Name Carl Kolbe

Regulatory Affairs

Title Coordinator

Date 4/21/92

## INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

## Southeastern New Mexico

## Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House 2868'	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee 2978'	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout 3734'	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Otzbe _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinberry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Delaware Sand _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Bone Springs _____	T. Entrada _____	T. _____
T. Abo _____	T. _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Perm _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn "A" _____	T. _____

## OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....  
No. 2, from.....to.....  
No. 3, from.....to.....  
No. 4, from.....to.....

## IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet

No. 2, from.....to.....feet

No. 3, from.....to.....feet

## LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology

From	To	Thickness in Feet	Lithology

GCU #13-1 SWD (BHP) AFE #9206202 SE Sec 13-T29N-R13W Gallegos Canyon San Juan, New Mexico (BHP WI 84.82% NRI 65.59%)

TAC: \$309,700

01/03/92- Depth 4008' PBTD: 3973' MIRU Bayless Completion Unit. Set rig tank, pump and frac tank. Unload 129 jts 2-3/8" 4.7# J-55 8R EUE tbg and tally. (4042.43'). NU BOPE and test to 2000 psi using Quadco testing. PU 4-3/4" bit on 4 3-1/2" drill collars and tally in hole w/58 jts tbg. Tag cmt at 1946'. RU power swivel and drld cmt to DV tool at 1977'. Drld 1.5' and fell 4', started drlg hard. Circ hole clean and lay dn 1 jt. Drain lines for night. SDFN. DMC: \$00 CMC: \$5,900 DC: \$3,205 TACC: \$3,205 TAC: \$165,875

01/04/92- Depth 4008' PBTD: 3973' Finish drg DV tool, work bit through area. LD swivel and TIH to 3914'. RU swivel and drld to 3969'. Circ clean and RD swivel. POOH w/bit and LD drl collars. TIH w/bit and csg scraper to 3955'. Press test csg to 2000 psi, held OK. Roll hole w/2% KCL wtr and TOOH. LD scraper and bit. Drain up. SDFN. DC: \$2,500 TACC: \$5,705 TAC: \$168,375

01/05/92- Depth 4008' PBTD: 3973'. MIRU Schlumberger Elect Line. Run in hole w/4.375" gauge ring and junk basket to 3971'. (Note: Schlumberger was told to run a 4.6" gauge ring). Fill hole w/2% KCL wtr and ran a GR/CCL/CBL from 3962' to surface. Cement bond looked OK. GIH and perf the Point Lookout from 3736' to 3762' w/8 JSPF in 2 runs using HEGS guns. No change in fluid level. GIH w/surge disk assembly, packer and 2-3/8" tbg. Pkr hung up in DV tool, could not work through. POOH, btm rubber tore. PU and GIH w/ a 4-3/4" tapered mill on 23 stds. SDFN. DC: \$7,655 TACC: \$13,360 TAC: \$176,030

01/06/92- Depth 4008' PBTD: 3973'. SIP 0 psi. Finish TIH w/tapered mill to DV tool. RU power swivel and dress off DV tool. Circ hole clean and trip out w/mill. GIH w/ surge disk assembly, pkr and 2-3/8" tbg. Set pkr at 3697' and test pkr, csg to 1000 psi. Held OK. Drop bar and surge perfs. RU to swab, found FL at 3400'. Swab back a total of 4.5 bbl wtr, 3 bbl over volume.

2:00 pm Sample had a 8.5 ph w/chlorides of 15,271

3:00 pm Sample had a 7.5 ph w/chlorides of 20,754

4:00 pm Sample had a 7.5 ph w/chlorides of 21,145

Pull samples at 4:00 pm for analysis.

Had approx 200' of entry each hour of swabbing. RD swab and rel pkr. POOH and LD pkr. PU 5-1/2" bridge plug and TIH to 1800'. SDFN. SDFN. DC: \$4,750 TACC: \$18,110 TAC: \$180,780

01/07/92- Depth 4008' PBTD: 3973'. SITP 50 psi, SICP 50 psi. Blow off gas. TIH w/RBP. Could not set. TOOH. PU new RBP. TIH and set at 3695'. Pressure test to 500 psi. OK. TOOH. RU Schlumberger. RIH w/4" csg guns and perf the Menefee formation w/8 JSPF, 90 deg phasing, 22 gram charged guns as follows:

<u>ZONE</u>	<u>JSPF</u>	<u>FL @ START</u>	<u>FL @ END</u>	<u>COMMENTS</u>
3590-3604	8	300	300	
3541-3549	8	300	300	
3509-3526	4	300	300	
3509-3526	4	150	150	Had failure & slight gas blow
3490-3502	8	150	150	
3434-39,3416-30	8	150	150	
3339-3361	8	Surface	Surface	Started flowing

head  
 BLTR +3 DC: \$4,650 TACC: \$22,760 TAC: \$185,430  
01/08/92- Depth 4008' PBTD: 3973'. SICP 50 psi. Blow off gas.  
 Continue perforating as before:

<u>ZONE</u>	<u>JSPF</u>	<u>FL @ START</u>	<u>FL @ END</u>	<u>COMMENTS</u>
3306-3332	4	400	400	
3306-3332	-	400	400	Head failure
3306-3332	4	Gas Cut	Gas Cut	-started
3291-3302	-	Gas Cut	Gas Cut	Heading
3291-3302	4	Gas Cut	Gas Cut	Gun wet
3291-3302	4	Gas Cut	Gas Cut	
				HJ2 HSC Gun-
				Select Fire

RD Schlumberger. PU and RIH w/pkr, BHA as before w/tbg disc. Isolate Menefee formation (3291-3604') w/pkr @ 3269'. Csg vol below pkr @ 8 bbl. Press test pkr to 500 psi, OK. Drop bar. Gas to surface in 2 min. RU swb. Too gassy to see FL. Swabbed dn to SN in 8 runs. Good blow. Rec 12 BW 2 pm SAMPLE = PH 7.5 CHLORIDES 43, 857. Sample for lab at 3 pm. Total rec 18 bbl. Fill hole. TOOH. LD pkr. RIH w/ret head. Stuck 40' above RBP. Worked loose. Tbg plugged. Dragging something up hole. Tbg held 1000 psi. Make short swb run to prevent surf ice plug. SIFN. Have LD 1 jt. BLTR +21 Day 6 DC: \$12,900 TACC: \$35,660 TAC: \$198,330

01/09/92- Depth 4008' PBTD: 3973'. Slight water flow on tbg and slight gas blow on csg. Latch on RBP and release. Unplug tbg and circ back dn to RBP. Latch on RBP and POOH. Did not have RBP. RIH w/ret head and found RBP at 1680'. Latch on and work free. POOH w/bridge plug. Had perforating port and surge disk material on top of RBP. Strip in hole with new bridge plug, casing flowing. Set bridge plug at 3150' and test to 500 psi. Held OK. Pull half way out of hole. SDFN. BLTR+21 Day 7 DC: \$2,300 TACC: \$37,960 TAC: \$200,630

01/10/92- Depth 4008' PBTD: 3969'. Finish trip out. RU Schlumberger & GIH w/a 4.625" guage ring & junk basket. POOH no recovery. GIH w/& perforate the Cliff House sand from 2870' to 2972' w/8 JSPF in 2 runs using 4" 90 deg phased HEGS guns. Well started flowing on last run. GIH with surge disk assembly, packer & 2 3/8" work string. Set packer @ 2837' & pressure test to 500 psi, held OK. Drop bar to surge perfs, good blow to surface. RU to swab, found fluid level at 1200'. Rec 10 bbl over load & pulled sample. 1st sample had a pH of 7.5 w/14,488 chlorides. Flowed 5 bbl & pulled 2nd sample. 2nd sample has a pH of 7.5 w/14,488 chlorides. Pull samples @ 3 p.m. For analysis. RD swab & release packer. Kill well w/30 bbl of 20% KCL water & TOH w/packer. PU Ret. Head & TIH to 2835'. SDFN. BLTR +21 Day 8 DC: \$12,025 TACC: \$49,985 TAC: \$212,655

01/11/92- Depth 4008' PBTD: 3969'. SITP 0 psi, SICP 150 psi. Circ dn to bridge plug and release. POOH and LD work string and bridge plug. Change out pipe rams and RU Hydro Tester. PU and tally in Model A-2 Lok-Set pkr w/pump out plug, 1 jt 2-7/8" tbg, 2.25" SN and 95 jts 2-7/8" 6.5# 8R J-55 EUE. All dn hole equipment is internally coated. Hydro tested tbg to 5000 psi. No leaks. RD

tester. Mis and pump inhibited 2% KCL pkr fluid. Could not set  
pkr. SDFN. BLTR +21 Day 9 DC: \$28,875 TACC: \$78,860 TAC: \$241,530  
01/12/92- Depth 4008 PBDT 3969. SITP 0 psi, SICP 80 psi. Having  
trouble setting packer. LD 1 jt and pump 10 bbl 2% KCl wtr dn tbq.  
Set pkr at ~~2770'~~ w/5000# dn. Press test pkr and csg to 1000 psi,  
held OK. ND BOPE and NU well head. Rel rig. **NOTE: ALUMINUM PUMP**  
**OUT PLUG ON BOTTOM. FINAL.**

2770'