

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 Grande 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. 30-045-28605
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOGS	
1a. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/>	7. Lease Name or Unit Agreement Name Gallegos Canyon Unit
b. Type of Completion: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DEEP RESERVOIR <input type="checkbox"/> OTHER <input type="checkbox"/>	8. Well No. 521
2. Name of Operator BHP Petroleum (Americas), Inc.	9. Pool name or Wildcat W. Kutz Pictured Cliffs
3. Address of Operator 5847 San Felipe, Suite 3600, Houston, TX 77095	
4. Well Location Unit Letter <u>L</u> : <u>1613</u> Feet From The <u>South</u> Line and <u>584</u> Feet From The <u>West</u> Line Section <u>36</u> Township <u>29N</u> Range <u>12W</u> NMPM San Juan County	

10. Date Spudded 11/4/91	11. Date T.D. Reached 11/7/91	12. Date Compl. (Ready to Prod.) 12/11/91	13. Elevations (DF & RKB, RT, GR, etc.) 5393' GR	14. Elev. Casinghead 5393'
15. Total Depth 1550'	16. Plug Back T.D. 1490'	17. If Multiple Compl. How Many Zones? N/A	18. Intervals Drilled By Rotary Tools 0 - TD	Cable Tools -0-
19. Producing Interval(s), of this completion - Top, Bottom, Name Pictured Cliffs 1372' - 1401'				20. Was Directional Survey Made Yes
21. Type Electric and Other Logs Run LDT/CNL/GR/DIT/HRL/COAL LOGS				22. Was Well Cored No

23. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
7"	20#	139' KB	8-3/4"	125 sxs "B" + Additives	-0-
4-1/2"	10.5#	1551' KB	6-1/4"	225 sxs 50/50 POZ	-0-
				20 sxs "B" + Additives	

24. LINER RECORD					25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-3/8"	1427'	

26. Perforation record (interval, size, and number) 1372' - 1401' @ 4 JSPF (116 holes @ .4" in diameter)	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	1372' - 1401'	Frac dn 4-1/2" csg w/ 333 bbls 70 Q foam and 85,600# 12/20 Brady sand.

28. PRODUCTION							
Date First Production WOPLC		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) SI	
Date of Test 12/11/91	Hours Tested 13	Choke Size 12/64"	Prod'n For Test Period	Oil - Bbl. N/A	Gas - MCF 250	Water - Bbl. 7	Gas - Oil Ratio N/A
Flow Tubing Press. 395	Casing Pressure 470	Calculated 24-Hour Rate	Oil - Bbl. N/A	Gas - MCF 461	Water - Bbl. 13	Oil Gravity - API - (Corr.) N/A	

29. Disposition of Gas (Sold, used for fuel, vented, etc.) Vented	Test Witnessed By Fred Lowery
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30. List Attachments	
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 <u>Beverly Comer</u>	Printed Name <u>Beverly Comer</u> Title <u>Production Tech.</u> Date <u>12/18/91</u>

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	88'	T. Penn. "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	1069'	T. Penn. "C"
B. Salt	T. Atoka	T. Pictured Cliffs	1372'	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House		T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee		T. Madison
T. Queen	T. Silurian	T. Point Lookout		T. Elbert
T. Grayburg	T. Montoya	T. Mancos		T. McCracken
T. San Andres	T. Simpson	T. Gallup		T. Ignacio Otzte
T. Toriata	T. McKee	Base Greenhorn		T. Granite
T. Lock	T. Ellenburger	T. Dakota		T.
T. Embury	T. Gr. Wash	T. Morrison		T.
T. 1000	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. Penn	T.	T. Permian		T.
T. Cisco (Bough C)	T.	T. Penn "A"		T.

OIL OR GAS SANDS OR ZONES

No. 1, from.....1372'.....to.....1401'.....
 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
			No cores or samples were taken.				

BHP PETROLEUM (AMERICAS), INC.
GALLEGOS CANYON UNIT #521
SECTION 36-T29N-R12W
W. KUTZ PICTURED CLIFFS
SAN JUAN COUNTY, NEW MEXICO

COMPLETION HISTORY

11/05/91 - MIRU Fruitland Drilling rig No. 2. Spud 8-3/4" hole at 5:30 pm on 11/4/91. Hit boulders at 35'.

11/06/91 - Day 2 Depth 143 (44') Bit #2 8-3/4" Reed RR Jets 3-13. MW 9.1 Vis 72 WB all @ 60 RPM SPM 65 psi 600. 18-4-3/4" DCs. Drlg on boulders. Trip for bit at 107'. Drlg to 143'. Circ. trip out w/bit. Run 3 jts. 20# 7" land at 139' KB. Rig up Western Co. cement w/125 SKS class "B" w/3% CACL2 & 1/4# cello seal. Circ. 5 bbl cement to pit, plug down at 3:15 p.m. 11/05/91 WOC-NU BOPE. Test blinds 2000 psi, held ok. Pipe 1000 psi, hydril to 500 psi. Pick up 6-1/4" bit-start drlg.

11/07/91 - Day 3 Depth 1550' (1407') Bit #3 6-254" Varel V517 Ser No. 56645. Jets 3-12. MW 9.1 Vis 72 WB all @ 65 RPM SPM 65. DCs 18-4-3/4". Drill 6-1/4" hole to 1550'. Water flow at 300' with gas to surface at 350' and 600'. Surveys at 143' and 500'. TD well at 6:00 am on 11/7/91. Mixing mud. Drlg 23 hrs, cond & circ 1 hr.

11/08/91 - Day 4 Depth 1550'. Mix mud to kill wtr and gas flow circ & short trip. Drop survey. POOH and strap pipe. RU Schlumberger and ran LDT/CNL/GR/DIT/HRL coal log. Logger TD 1558'. RD logger & TIh circ & cond POOH & LD DP. RU & ran 37 jts 4-1/2" 10.5# J-55 8R R-3 ST&C csg & land @ 1551' KB. RU Western & cmt w/225 sxs 50/50 Poz w/2% CaCl, 10% salt, 1/4# per sx cello seal and 20 sxs Class "B" w/1.2% CF-18 low fluid loss. Obtained full returns w/10 bbl cmt to surf. Bumped plug w/1500 & float held. Plug dn @ 6:30 am 11/8/91. ND BOPE.

11/09/91 - Day 5 Depth 1550'. ND BOPE and jet pits. Released rig at 10:30 am on 11/8/91.

12/05/91 - Depth 1551'. PBTD: 1490'. MIRU NU BOPE. PU bit and scraper on 2-3/8" tbg and tally in hole. Clean out to 1490' KB. Circ hole clean. MI frac tank filter and fill w/2% KCL. SDFN.

12/06/91 - Depth 1551'. PBTD: 1490'. TOH w/tbg, bit and scraper. Press test csg and BOPE to 2250 psi. Held OK. RU perforator and ran a GR/CCL correlation log. GIH w/ 3-1/8" csg gun loaded w/4 JSPF, premium charged, 90 deg phased and perf the Pictured Cliffs Sand from 1372' to 1401' in two runs. POH all shots fired. No pressure to surf. Waiting on frac crew.

12/07/91 - Depth 1551'. PBTD: 1490'. 0 Pressure on well. RU Western and frac stimulate the Pictured Cliffs dn 4-1/2" csg w/13,734 gal 70 quality foam and 85,600# 12/20 Brady sand. Max sand conc 6 ppg max treating press 2500 psi, min 1030, avg 1090. Avg rate 24.5 BPM. ISIP 920 psi. Load to recover 327 bbl bleed back to induce closure. 4 hr SICP 695 psi. Open well to frac tank on a 3/8" pos choke. 3 hrs flowing at 160 psi the choke cut out, replace. The 2nd choke cut out after flowing 4 hrs at 150 psi. The choke body ws cut through and well was shut in at 10:00 pm. Rec 70 bbl load fluid. 9 hr SICP 520 psi. TBLR 70 BLTR 257 Days 3

12/08/91 - Depth 1551'. PBTD: 1490'. Attempt to kill well w/20 bbl

of 9.4 ppg KCL in order to ND and land tbg. Could not kill well. Change out all flow back piping and open well to frac tank at noon through a 3/8" pos choke. 6 hrs flowing FCP 400 psi with a light mist of water. Est rate is 1 MMCF/D. TBLR 75 BLTR 252 Days 4

12/09/91 - Depth 1551'. PBTD: 1490'. 12 hours flowing recovered 50 bbl load water w/ a 1.2 MMCF/D rate. FCP 400 psi. Replace 2 choke inserts in 12 hours. TBLR 125 BLTR 202 Days 5

12/10/91 - Depth 1551'. PBTD: 1490'. Kill well with 30 bbl of 2% KCL water. TIH w/tbg and expendable check. Tag sand at 1375' clean out to PBTD at 1490' with N/2. Pull back and land tbg at 1427' KB w/44 jts 2-3/8" 4.7# 8R J-55 EUE tbg. Kill well w/40 bbl 20% KCL water and ND BOPE and NU well head. Pump off check and unload well w/N/2. Put well on test through a test unit. TBLR 125 BLTR 202

12/11/91 - Depth 1551'. PBTD: 1490'. 13 hours flowing through a test unit on a 12/64 choke w/a 3" meter run. FTP 395 PSI, Csg. 470 PSI. Recovered 07 BBL load water w/a gas rate of 250 MCF/D. Due to the amount of frac sand flowing back the volume will be increased. TBLR 132 BLTR 195 Days 7

12/12/91 - Depth 1551'. PBTD: 1490'. 24 hours flowing through a test unit on a 24/64 choke w/a 3" meter run, FTP 300 psi, csg., 415 psi, recovered 73 BBL load water w/a gas rate of 1087 MCF/D, meter 3" run, 1.750" plate, 500# spring and 100" diff. TBLR 205 BLTR +10 Days 8

12/13/91 - Depth 1551'. PBTD: 1490'. 24 hours flowing through a test unit on a 24/64 choke w/a 3" meter run, FTP 300 psi, csg., 410 psi, recovered 51 BBL load water w/a gas rate of 1029 MCF/D, meter 3" run, 1.750" plate, 500# spring and 100" diff., Static 4.7 & diff 4.9, shut well in and RD test unit, WOPL, TBLR 256 BLTR +61 Days 9

12/14/91 - Depth 1551'. PBTD: 1490'. 24 hours SITP 427 psi and SICP 462 psi. TBLR 256 BLTR +61 Days 10

12/15/91 - TD: 1551' PBTD: 1490' 48 hr SITP 436 psi SICP 470 psi TBLR 256 BLTR +61 Days 11

12/16/91 - TD: 1551' PBTD: 1490' 72 hr SITP 450 psi SICP 470 psi. TBLR 256 BLTR +61 Days 12

12/17/91 - TD: 1551' PBTD: 1490' 96 hr SITP 452 psi SICP 485 psi. TBLR 256 BLTR +61 Days 13

12/18/91 - TD: 1551' PBTD: 1490' 120 hour SITP, 452 psi & SICP 485 psi, WOPL TBLR 256 BLTR +61 Days 14 **DROP FROM REPORT.**