

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

PERMIT IN DUPLICATE

Form approved,
Budget Bureau No. 1304-0137
Expires August 31, 1985

WELL DESIGNATION AND SERIAL NO.
SF-078019

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1. TYPE OF WELL ☐ NEW WELL ☒ WORK OVER		2. NAME OF OPERATOR BHP Petroleum (Americas) Inc.		3. ADDRESS OF OPERATOR 5847 San Felipe, Suite 3600 Houston, TX 77057-3005		4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements). At surface 1118' FNL & 1413' FEL (NW/NE) At top prod. interval reported below At total depth		5. FIELD AND POOL, OR WILDCAT Basin Fruitland		6. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA Section 36, T28-R11W					
7. DATE SPUDDED 1/1/90		8. DATE T.D. REACHED 1/18/90		9. DATE COMPL. (ready to prod.) 3/20/90		10. ELEVATIONS (OF RNB, RT, GR, ETC.) 5687'		11. ELEV. CASINGHEAD 5679'		12. COUNTY OR PARISH San Juan		13. STATE NM			
14. PERMIT NO. API No. 30-045-27552		15. DATE SPUDDED 1/1/90		16. DATE T.D. REACHED 1/18/90		17. DATE COMPL. (ready to prod.) 3/20/90		18. ELEVATIONS (OF RNB, RT, GR, ETC.) 5687'		19. ELEV. CASINGHEAD 5679'		20. COUNTY OR PARISH San Juan		21. STATE NM	
22. TOTAL DEPTH, MD & TVD 1817'		23. PLUG BACK T.D., MD & TVD 1762'		24. MULTIPLE COMPLETION HOW MANY?		25. INTERVALS CALLED BY 0-TD		26. CABLE TOOLS		27. WAS DIRECTIONAL SURVEY MADE No		28. WAS WELL CORED Yes		29. TYPE ELECTRIC AND OTHER LOGS RUN DIL, SDL/ DSN, Microlog	
30. CASING RECORD (Report all strings set in well)															
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED					
8 5/8"		24		135		12 1/4		98 sx (113 ft) "G" w/ 1/4# / sx Flocele, 3% CaCl ₂		-0-					
4 1/2"		10.5		1811		7 7/8		*See back		-0-					
31. LINER RECORD															
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*		SCREEN (MD)		32. TUBING RECORD					
						APR 23 1990				SIZE		DEPTH SET (MD)		PACKER SET (MD)	
										2 3/8"		1622		None	
33. PERFORATION RECORD (Interval, size and number)															
1603'-1618' w/4 JSPF-0.5"		1512'-1515' " "		1434'-1436' " "		1427'-1431' " "		34. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.							
								35. DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED					
								1603-1618		48K gals 70Q N ₂ Foam					
								1427-1436		5K# 40-70; 53K# 20-40					
										43K gals 70Q N ₂ foam					
										5K# 40-70, 39K# 20-40					
36. PRODUCTION															
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)		WELL STATUS (Producing or shut-in)											
W.O.P.L.		Flowing		Shut-in											
DATE OF TEST		HOURS TESTED		CHOKE SIZE		PROD'N FOR TEST PERIOD		OIL—BBL		GAS—MCF		WATER—BBL		GAS-OIL RATIO	
3/19/90		24		1/2"				-0-		388		-0-		NA	
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL—BBL		GAS—MCF		WATER—BBL		OIL GRAVITY-API (CORR.)			
60		100				0		388		-0-		N/A			
37. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)															
Vented															
38. LIST OF ATTACHMENTS															
None															
39. I hereby certify that the foregoing and attached information is complete and correct as determined from FARMINGTON RESOURCE AREA															
SIGNED <u>Paul C. Bertoglio</u>		TITLE <u>Sr. Petroleum Engineer</u>		BY <u>[Signature]</u>		DATE <u>4/4/90</u>									

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP VERT. DEPTH
Fruitland Coal	1416	1437	Not available yet - still running absorption/desorption tests	Nacimiento	Surface	Surf
				Ojo Alamo	544	544
				Kirtland	640	640
				Fruitland	1390	1390
				Pictured Cliffs	1622	1622
				Total Depth	1817	1817
			4 1/2" Casing Cement Record			
			285 sx (482 ft) 65/35 pozmix with			
			6% gel, 10% salt, 0.2% dispersant &			
			1/4#/sx floccul			
			283 sx (325 ft) 'G' with 0.5% D59,			
			4% D65, 0.2% D136, 0.25% D79			
		Lead				
		Tail				