

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R355.5.

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG \***

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

**RECEIVED**

2. NAME OF OPERATOR  
BHP Petroleum (Americas), Inc.

MAR 06 1986

3. ADDRESS OF OPERATOR  
P.O. Box 3280, Casper, Wyoming 82602

**BUREAU OF LAND MANAGEMENT  
WASHINGTON RESOURCE AREA  
MAR 13 1986  
OIL CON. DIV.  
DIST. 3**

4. LOCATION OF WELL (Report location clearly and in accordance with any local requirements)  
At surface 1820' FSL & 1490' FWL  
At top prod. interval reported below  
At total depth

5. LEASE DESIGNATION AND SERIAL NO.  
SF-078309

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Brannon Federal

9. WELL NO.  
2-E

10. FIELD AND POOL, OR WILDCAT  
Basin Dakota

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Sec. 29 T25N-R9W

12. COUNTY OR PARISH  
San Juan

13. STATE  
New Mexico

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED \_\_\_\_\_  
15. DATE SPUNDED 1-2-86 16. DATE T.D. REACHED 1-10-86 17. DATE COMPL. (Ready to prod.) 2-20-86 18. ELEVATIONS (DF, RSB, RT, GR, ETC.)\* G.R. 5752'; K.B. 5764' 19. ELEV. CASINGHEAD 5752

20. TOTAL DEPTH, MD & TVD 6606' 21. PLUG, BACK T.D., MD & TVD 6531' 22. IF MULTIPLE COMPL., HOW MANY\* \_\_\_\_\_ 23. INTERVALS DRILLED BY \_\_\_\_\_ ROTARY TOOLS 0-T.D. CABLE TOOLS - 0 -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
Dakota 6405'-6443' 25. WAS DIRECTIONAL SURVEY MADE  
No

26. TYPE ELECTRIC AND OTHER LOGS RUN  
SP - DIL; GR-FDC-CNL 27. WAS WELL CORED  
No

28. 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#	315'	12-1/4"	250 sx (295ft <sup>3</sup> ) Class "B" 2% CaCl <sub>2</sub> & 1/4#/sx Flocele	w/
4-1/2"	10.5#	6605'	7-7/8"	- see back -	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8"	6447'	

31. PERFORATION RECORD (Interval, size and number)

6405'-10' - 6 shots - 0.39" diameter  
6413'-28' - 16 shots - 0.39" diameter  
6436'-43' - 8 shots - 0.39" diameter

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6405'-6443'	750 gals 7-1/2% HCl - Fe acid Frac'd w/70,000 gals 30# cross-linked gel w/122,240# 20-40 sand.

33.\* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
-----	Flowing	Shut-In					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
2-20-86	3	1/2"	→	1/2	219	1/2	438,000
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
280	640	→	4	1754	4	N/A	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
Vented TEST WITNESSED BY  
T.C. Durham

35. LIST OF ATTACHMENTS  
None

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Paul C. Bertoglio TITLE Petroleum Engineer DATE 3-4-86

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

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Interval, or intervals, top(s), bottom (s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** "Nack's Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

**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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	GEOLOGIC MARKERS	
					MEAS. DEPTH	TRUE VERT. DEPTH
			<p>28. Long string cement record</p> <p>1st stage - 670 sx (824.1 ft<sup>3</sup>) 50-50 pozmix w/2% gel, 10% salt, 1/4#/sx Celloflake, 0.5% D-31, 0.5% FL-19, and 1% R-5.</p> <p>2nd stage - D.V. tool @ 4557' 670 sx (1883 ft<sup>3</sup>) Class "B" w/3% I<sub>o</sub> Dense &amp; 1/4#/sx Celloflake followed by 100 sx (118 ft<sup>3</sup>) Class "B" w/1/4#/sx Celloflake</p>	<p>Nacimienta</p> <p>Ojo Alamo</p> <p>Kirtland</p> <p>Fruitland</p> <p>P.C.</p> <p>Chacra</p> <p>Cliff House</p> <p>Paint Lookout</p> <p>Mancos</p> <p>Gallup</p> <p>Dakota</p> <p>T.D. Driller</p> <p>T.D. Logger</p>	<p>surface</p> <p>955'</p> <p>1242'</p> <p>1529'</p> <p>1883'</p> <p>2625'</p> <p>3460'</p> <p>4285'</p> <p>4450'</p> <p>5363'</p> <p>6380'</p> <p>6606'</p> <p>6606'</p>	