

WELL NAME AND NUMBER S. E. Dean "10" Federal #1-A 1000/N & 1100/E 3004

LOCATION Section 10, T16S, R37E, Lea County, New Mexico
(New Mexico give U.S.T.&R. - Texas give S, BLK, SURV. and TWP)

OPERATOR BHP Petroleum (Americas) Inc.

DRILLING CONTRACTOR MORANCO Drilling, Inc.

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above-described well and that he has conducted deviation tests and obtained the following results:

<u>Degrees and Depth</u>	<u>Degrees and Depth</u>	<u>Degrees and Depth</u>	<u>Degrees and Depth</u>
<u>1/2 250</u>	<u>3/4 5201</u>	<u>3/4 10465</u>	<u> </u>
<u>1/2 512</u>	<u>1/2 5701</u>	<u>1 10960</u>	<u> </u>
<u>3/4 1012</u>	<u>1/2 6197</u>	<u>1 3/4 11454</u>	<u> </u>
<u>1 1545</u>	<u>3/4 6664</u>	<u>3 1/2 11760</u>	<u> </u>
<u>1 2044</u>	<u>1/2 7161</u>	<u>1 3/4 11930</u>	<u> </u>
<u>1/2 2213</u>	<u>3/4 7658</u>	<u> </u>	<u> </u>
<u>3/4 2730</u>	<u>3/4 7981</u>	<u> </u>	<u> </u>
<u>1 1/4 3210</u>	<u>1 8471</u>	<u> </u>	<u> </u>
<u>1 3692</u>	<u>3/4 8593</u>	<u> </u>	<u> </u>
<u>1 4195</u>	<u>3/4 9066</u>	<u> </u>	<u> </u>
<u>1 4502</u>	<u>1 1/4 9453</u>	<u> </u>	<u> </u>
<u>1 4700</u>	<u>1 9966</u>	<u> </u>	<u> </u>

Drilling Contractor MORANCO Drilling, Inc.

By Wiley Gilmore
Wiley Gilmore - Marketing Manager

Subscribed and sworn to before me this 27th day of May 19 87

My Commission expires:

January 30, 1989

Susie Branyon
Notary Public Susie Branyon
Lea County, New Mexico

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Artesia, NM 88270
SUBMIT IN DUPLICATE

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐		1b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REVR. ☐ Other ☐		2. NAME OF OPERATOR BHP Petroleum Company, Inc.		3. ADDRESS OF OPERATOR 6 Desta Drive Suite 3200 Midland, Texas 79705-5510		4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1000' FNL & 1100' FEL Section 10 T-16-S, R-37-E At top prod. interval reported below 1000' FNL & 1100' FEL Sec 10, T16S, R37E At total depth 1000' FNL & 1100' FEL Sec 10, T16S, R37E		5. LEASE DESIGNATION AND SERIAL NO. NM 54013		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -		7. UNIT AGREEMENT NAME -		8. FARM OR LEASE NAME S.E. Dean 10 Federal No. 1		9. WELL NO. 1		10. FIELD AND POOL, OR WILDCAT NE Lovington Penn		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Section 10, T16S, R37E		12. COUNTY OR PARISH Eddy LEA		13. STATE New Mexico																																			
14. PERMIT NO. -		DATE ISSUED 8/6/86		15. DATE SPUDDED 4/27/87		16. DATE T.D. REACHED 5/23/87		17. DATE COMPL. (Ready to prod.) 6/4/87		18. ELEVATIONS (DF, RKB, RT, OR, ETC.)* 3797' GR		19. ELEV. CASINGHEAD 3797'		20. TOTAL DEPTH, MD & TVD 11,930'		21. PLUG, BACK T.D., MD & TVD 11,794'		22. INTERVALS DRILLED BY ROTARY TOOLS 11,930'		23. CABLE TOOLS -		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Strawn 11676'-84'		25. WAS DIRECTIONAL SURVEY MADE No		26. TYPE ELECTRIC AND OTHER LOGS RUN CNL/LDT, DIL, BHC, Dipmeter		27. WAS WELL CORRED No																																	
28. CASING RECORD (Report all strings set in well)																																																													
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED																																																			
13 3/8		61,54.5, 48		514		17 1/2		525 sx cmt circ		none																																																			
9 5/8		40 & 36		4690		12 1/2		1730 sx cmt circ		none																																																			
5 1/2		17 & 20		11930		7 7/8		650 sx TOC @ 9100'		none																																																			
								by temp survey																																																					
29. LINER RECORD																																																													
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*		SCREEN (MD)		30. TUBING RECORD																																																			
										SIZE		DEPTH SET (MD)		PACKER SET (MD)																																															
										2 7/8		11310'		11310'																																															
31. PERFORATION RECORD (Interval, size and number)																																																													
Strawn: 11676'-84' 18 holes																																																													
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.																																																													
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED																																																											
11676'-84'		300 gallons 15% NeFe																																																											
33. PRODUCTION																																																													
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)												WELL STATUS (Producing or shut-in)																																															
6/4/87		Pumping 2 1/2 x 1 3/4 x 28 RHBC												Producing																																															
DATE OF TEST		HOURS TESTED		CHOKE SIZE		PROD'N. FOR TEST PERIOD		OIL—BBL.		GAS—MCF.		WATER—BBL.		GAS-OIL RATIO																																															
6/27/87		24		-		→		129		268		110		2078																																															
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL—BBL.		GAS—MCF.		WATER—BBL.		OIL GRAVITY-API (CORR.)																																																	
-		-		→		129		268		110		46																																																	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)																																																													
Vented → waiting on contract sjs																																																													
35. LIST OF ATTACHMENTS																																																													
(3) Sundry Notices; (2) copies of CNL/LDT, DIL, BHC, Dipmeter Logs																																																													
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records																																																													
SIGNED		Hal Crabb												TITLE												Petroleum Engineer												DATE												7/1/87											
Hal Crabb																																																													

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

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	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Yates	3350'	5182'		Yates	3350'	3350'
San Andres	5182'	6584'		San Andres	5182'	5182'
Glorieta	6584'	7250'		Glorieta	6584'	6584'
Yeso	7250'	7892'		Yeso	7250'	7250'
Tubb	7892'	8628'		Tubb	7892'	7892'
Wolfcamp	8628'	10144'		Abo	8628'	8628'
Penn Lime	10144'	10950'		Wolfcamp	10144'	10144'
Penn Shale	10950'	11171'		Penn Lime	10950'	10950'
Strawn 'A'	11171'	11570'		Strawn 'A'	11570'	11570'
Strawn Shale	11570'	11630'		Strawn Bank	11570'	11570'
Strawn Bank	11630'	11661'			11661'	11661'
Strawn Biostrome	11661'	11746'				
Strawn Clastics	11746'	11870'				
	11870'	11930'				

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