

Expires: February 28, 1995

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Submit in Duplicate*
(See other instructions
on reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL ☐ GAS ☒ DRY ☐ OTHER ☐		5. LEASE DESIGNATION AND SERIAL NO. SF078707	
b. TYPE OF COMPLETION: NEW ☒ WORK ☐ DEEP- ☐ PLUG ☐ DIFF. ☐ OTHER ☐ WELL OVER EN BACK RESVR		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR CORDILLERA ENERGY, INC.		7. UNIT AGREEMENT NAME	
3. ADDRESS AND TELEPHONE NO. 5802 HIGHWAY 64, FARMINGTON, NM 87401		8. FARM OR LEASE NAME, WELL NO. DUKE #1B	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 660' FSL & 1850' FEL - UL "O" At top prod. interval reported below same At total depth same		9. API WELL NO. 30-045-31062	
14. PERMIT NO.		12. COUNTY OR PARISH SAN JUAN	
DATE ISSUED		13. STATE NEW MEXICO	
15. DATE SPUNDED 07/29/2002	16. DATE T.D. REACHED 08/05/2002	17. DATE COMPL. (Ready to prod.) 09/01/2002	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5851' GR 5866' KB
19. ELEV. CASINGHEAD	20. TOTAL DEPTH, MM & JJJ 6870' KB		
21. PLUG, BACK T.D., MD & TTT 6820' KB	22. IF MULTIPLE COMPL., HOW MANY? 2	23. INTERVALS DRILLED BY	ROTARY TOOLS X
24. PRODUCTION INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD) 4578' - 4841'			25. WAS DIRECTIONAL SURVEY MADE NO
26. TYPE ELECTRIC AND OTHER LOGS RUN IND/GR/CAL/DEN/NEUT/CMT			27. WAS WELL CORED NO

28. CASING RECORD (Report all strings set in well)					
CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36# J55	273'	12-1/4"	TOC UNKNOWN. 210sx (44bbl) Cls B w/2% CaCl ₂ , 1/4# sx cellophane	17 bbl circ
7"	23# J55	4148'	8-3/4"	1st Stage: 52 bbl (195 sx) Cls B Poz w/2% CaCl ₂ , 104# cellophane	35 bbl circ
				2nd Stage: 252 bbl (700 sx) 65/35 Cls B Poz w/2% CaCl ₂ , 1/4# cellophane	
4-1/2"	11.60# N80	6855'	6-1/4"	TOC 3900' 340 sx (87 bbl) 50/50 Poz w/2% gel, 5#sx Gils, 1/4# cellophane.	0.6 % Halad 9, 0.1% HR 5

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8"	6770.31' KB	4894.97' KB
31. PERFORATION RECORD (Interval, size and number) 4578' - 4841' 0.38 33 HOLES				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) 4578' - 4841' AMOUNT AND KIND OF MATERIAL USED 2500 gal 15% HCL w/additives, 50 7/8" ball sealers. Displace acid w/ 2% KCL wtr. Frac w/120,000# 20/40 Mesh Super LC sand			

33. PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing				WELL STATUS (Producing or shut-in) SI	
DATE OF TEST 9/16/2002	HR'S TESTED 3	CHOKE SIZE 1.250	PROD'N FOR TEST PERIOD	OIL—BBL -0-	GAS—MCF 212	WATER—BBL 0.75	GAS-OIL RATIO n/a
FLOW TUBING PRESS SI 705#	CSG PRESS 406	CALCULATED 24-HOUR RATE	OIL—BBL -0-	GAS—MCF 1,695	WATER—BBL 6.0	OIL GRAVITY—API (CORE.) n/a	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented thru orifice on test separator. Avg. 32 psig				TEST WITNESSED BY Daryl Wright			
---	--	--	--	-----------------------------------	--	--	--

35. LIST OF ATTACHMENTS Deviation Survey							
---	--	--	--	--	--	--	--

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.							
SIGNED <u>Kay Schuster</u>				TITLE <u>PRODUCTION TECHNICIAN</u>			
				FARMINGTON FIELD OFFICE			
				September 17, 2002			

*(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	TOP		TRUE VERT. DEPTH				
					MEAS. DEPTH						
				OJO ALAMO	445'		445'				
				KIRTLAND	1455'		1455'				
				PICTURED CLIFFS	2215'		2215'				
				CLIFF HOUSE	3770'		3770'				
				MENEFE	4070'		4070'				
				POINT LOOKOUT	4500'		4500'				
				DAKOTA	6670'		6670'				