

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other In-
structions on
reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other <input type="checkbox"/>		1b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM-8005	
2. NAME OF OPERATOR BCO, Inc.				6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 135 Grant, Santa Fe, NM 87501				7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 475' FSL & 2185' FEL At top prod. interval reported below Same At total depth Same				8. FARM OR LEASE NAME Federal D	
14. PERMIT NO. Dist. 3 DATE ISSUED AUG 21 1991 OIL CON. DIV.				9. WELL NO. 3	
15. DATE SPUNDED 2/27/91 16. DATE T.D. REACHED 3/06/91 17. DATE COMPL. (Ready to prod.) 7/22/91 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6815 GL 19. ELEV. CASINGHEAD 6818				10. FIELD AND POOL, OR WILDCAT South Bisti Gallup Ext.	
20. TOTAL DEPTH, MD & TVD 5050 21. PLUG, BACK T.D., MD & TVD 4992 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY XX 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4718 - 4928 Gallup				11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec 3 T23N R9W NMFM	
25. TYPE ELECTRIC AND OTHER LOGS RUN Induction Guard, Dual Compensated Porosity, CBL				12. COUNTY OR PARISH San Juan	
26. CASING RECORD (Report all strings set in well)				13. STATE NM	
27. WAS WELL CORED No				28. WAS DIRECTIONAL SURVEY MADE Yes - to OGD 3/11/91	
29. LINER RECORD				30. TUBING RECORD	
31. PERFORATION RECORD (Interval, size and number) One 0.32" perforation at 4718, 4822, 4828, 4834, 4866, 4872, 4878, 4902, 4908, 4914, 4928				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 4718 - 4928 500 gallons 7 1/2% FEHCL 53,565 treated gallons of water, 2,780,650 scf N ₂ , 327,000# 16/30 Brady sand, 171,223 gallons of 70% foam	
33. PRODUCTION DATE FIRST PRODUCTION 7/22/91 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Gas Lift DATE OF TEST 7/25/91 HOURS TESTED 24 CHOKE SIZE 19/64 PROD'N. FOR TEST PERIOD 47 OIL—BBL. 70 MCF Gas 70 MCF N ₂ GAS—MCF. 70 MCF Gas 70 MCF N ₂ WATER—BBL. 25 OIL GRAVITY-API (CORR.) 40				34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented	
35. LIST OF ATTACHMENTS Cement job details				36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records	
SIGNED Elizabeth B. Keeshan TITLE President				DATE 7/26/91	

*(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	MEAS. DEPTH	TOP TRUE VERT. DEPTH
				Ojo Alamo	652	652
				Kirtland	772	772
				Fruitland	882	882
				Pictured Cliffs	1312	1312
				Chacra	1660	1660
				Cliff House	2732	2732
				Menefee	2766	2766
				Point Lookout	3750	3750
				Mancos	3902	3902
				Gallup	4466	4466

ATTACHMENT TO FORM 3160-4

Federal D #3

(Well Name)

Sec 3 T23N R9W

(Sec, T, R)

NM-8005

(Lease No.)

The following summarizes the cement job on the above well as required by item 28 of 3160-4 and the approved APD.

8-5/8" surface casing 365 ' to surface. 225 sacks Class B, 2% CaCl, 1/4# flocele per sack mixed at 15.6 lbs with a yield of 1.18 or 263 cubic feet. Cement circulated to surface.

4-1/2" casing, Stage 1: T.D. to 3935 '. Ran 20 barrels mud flush, 50 sacks Class G mixed with 8 lbs salt per sack, 1/2# flocele per sack, 6 1/4 lbs Gilsonite per sack. Mixed at 15.2 lbs per gallon. Yield 1.377 cubic feet per sack or a total of 69 cubic feet. 290 sacks Class G mixed with 2% CaCl, 8# salt per sack, 6 1/4# Gilsonite per sack, 1/2# flocele per sack, mixed at 15.2# with a yield of 1.377 or 399 cubic feet. Cement was designed to circulate above cement stage tool. Circulated 2 barrels slurry when opened cement stage tool.

4-1/2" casing, Stage 2: 3935 ' to surface'. Pumped 5 barrels of water, pumped 10 barrels CaCl water, pumped 10 barrels water spacer, pumped 20 barrels Superflush, pumped 10 barrels water. 920 sacks of 50/50 Class G poz mix mixed with 2% gel, 2% KCL by weight of water, 12# Gilsonite per sack. Mixed at 12.8 lbs per gallon with a yield of 1.46 cubic feet per sack or a total of 1343 cubic feet. Cement was designed to circulate. Circulated 52 barrels slurry.