Form 3160-4
(November 1983)
(formerly 9-330)

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

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*

5. LEASE DESIGNATION AND SERIAL NO.: NM-8005

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Federal D

2. NAME OF OPERATOR: BCO, Inc.

9. WELL NO.: 4

3. ADDRESS OF OPERATOR: 135 Grant, Santa Fe, NM 87501

10. FIELD AND POOL, OR WILDCAT: South Bisti Gallup EXT

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)
At surface: 960' FNL and 865' FEL
At top prod. interval reported below: Same
At total depth: Same

RECEIVED
AUG 21 1991
OIL CON. DIV.
DIST. 3

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec 10 T23N R9W NMPM

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
		San Juan	NM

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
2/20/91	2/25/91	7/11/91	6893 GL	6896

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5130	5085		→	XX	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 4792 - 5006 Gallup

25. WAS DIRECTIONAL SURVEY MADE: Yes to OCD 2/27/9

26. TYPE ELECTRIC AND OTHER LOGS RUN: Induction Log and Dual Compensated Porosity Log, CBL.

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 #	362	12 1/4"	225 Sacks	
4 1/2"	11.6#	5124	7 7/8"	1140 Sacks	

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"	4969	

31. PERFORATION RECORD (*Interval, size and number*)
One 0.32" shot at 4792, 4900, 4906, 4912, 4944, 4950, 4956, 4982, 4988, 4994, 5006

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4792 - 5006	500 gallons 7 1/2% FeHCl
	175,226 gallons 70% foam,
	327,000 # 16-30 Grady sand
	with 2,300,000 scf N_2

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
7/11/91	Gas lift	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
7/16/91	24	40/64		38	57 MCF Gas 57 MCF N_2	5	1500

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
120	400		38	57 MCF Gas 57 MCF N_2		40

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Vented

TEST WITNESSED BY: R. Ramirez

35. LIST OF ATTACHMENTS: Cement job details

ACCEPTED FOR RECORD
AUG 13 1991
FARMINGTON RESOURCE AREA
BY

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

SIGNED Elizabeth B. Keesha TITLE President DATE 7/17/91

*(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

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.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Ojo Alamo	710	710
Kirtland	818	818
Fruitland	974	974
Pictured Cliffs	1362	1362
Chacra	1700	1700
Cliff House	2758	2758
Menefee	2790	2790
Point Lookout	3744	3744
Mancos	3901	3901
Gallup	4580	4580

ATTACHMENT TO FORM 3160-4

Federal D #4
(Well Name)

SEc 10 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 362 ' 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 266 cubic feet. Cement circulated to surface.

4-1/2" casing, Stage 1: T.D. to 3925 '. 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. 280 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 386 cubic feet. Cement was designed to circulate above cement stage tool. Circulated 15 barrels slurry when opened cement stage tool.

4-1/2" casing, Stage 2: 3925 ' 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. 810 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 1183 cubic feet. Cement was designed to circulate. Circulated 37 barrels slurry.