

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"/>		2. NAME OF OPERATOR BCO, Inc.		5. LEASE DESIGNATION AND SERIAL NO. NM-8005	
b. 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"/>		3. ADDRESS OF OPERATOR 135 Grant, Santa Fe, NM 87501		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirement) At surface 2175' FNL and 600' FWL At top prod. interval reported below Same At total depth Same		14. PERMIT NO. DATE ISSUED		7. UNIT AGREEMENT NAME	
16. DATE T.D. REACHED 3/13/91		17. DATE COMPL. (Ready to prod.) 5/1/91		8. FARM OR LEASE NAME Federal D	
18. ELEVATIONS (IDE, RKB, RT, GE, ETC.)* GL 6878'		19. ELEV. CASINGHEAD 6871'		9. WELL NO. 5	
20. TOTAL DEPTH, MD & TVD 5040		21. PLUG, BACK T.D., MD & TVD 4978		10. FIELD AND POOL, OR WILDCAT South Bisti Gallup Ext	
22. IF MULTIPLE COMPL. HOW MANY*		23. INTERVALS DRILLED BY		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec10T23NR9W NMPM	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* 4517-4927 Gallup		25. WAS DIRECTIONAL SURVEY MADE Yes. Filed with OCD 3/18/91.		12. COUNTY OR PARISH San Juan	
26. TYPE ELECTRIC AND OTHER LOGS RUN Induction Guard Log, Dual Compensated Porosity Log		27. WAS WELL CORED No		13. STATE NM	
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#	363'	12 1/4"	225 sacks	
4 1/2"	11.6#	5039'	7 7/8"	1065 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"	4900'				
31. PERFORATION RECORD (Interval, size and number) One 0.32" Select fire shot at 4517, 4718, 4820, 4826, 4832, 4854, 4864, 4880, 4904, 4910, 4916, 4927, and inadvertently at 4940			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		
			DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	
			4517-4927	500 gallons FE-HCL 7 1/2%	
				162,000 70% quality foam,	
				227,000# 16/30 sand,	
				2,405,767 scf N ₂	
33. PRODUCTION					
DATE FIRST PRODUCTION 5/2/91		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing for test - pumping to produce; 1 1/2" top hole down pump		WELL STATUS (Producing or shut-in) Producing	
DATE OF TEST 5/5/91	HOURS TESTED 24	CHOKE SIZE 18/64	PROD'N. FOR TEST PERIOD 72	OIL—BBL. 50	GAS—MCF. 700'
FLOW. TUBING PRESS. 50	CASING PRESSURE 80	CALCULATED 24-HOUR RATE 72	OIL—BBL. 50	GAS—MCF. 4	OIL GRAVITY-API (CORR.) 40
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented					
35. LIST OF ATTACHMENTS Detail of cement jobs.					
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 5/7/91	

*(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	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
				Ojo Alamo .	614 .	614 .
				Kirtland .	716 .	716 .
				Fruitland .	882 .	882 .
				Pictured Cliffs .	1266 .	1266 .
				Chacra .	1612 .	1612 .
				Cliff House .	2701 .	2701 .
				Menefee .	2714 .	2714 .
				Point Lookout	3672 .	3672 .
				Mancos .	3824 .	3824 .
				Gallup .	4500 .	4500 .

ATTACHMENT TO FORM 3160-4

Federal D #5

(Well Name)

Sect 10, T23N, R9W NMPM

(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 363' 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 4060'. Ran 20 barrels mud flush, 45 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 62 cubic feet. 220 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 303 cubic feet. Did not circulate cement off DV tool but according to bond log top of cement is at DV tool.

4-1/2" casing, Stage 2: 4060' to 466'. Pumped 16 barrels of water, pumped 30 barrels CaCl water, pumped 10 barrels water spacer, pumped 30 barrels Superflush, pumped 10 barrels water. 800 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 1168 cubic feet. Cement was designed to circulate. It did not circulate. Determined top of cement is 466' with bond log.