

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	5. LEASE DESIGNATION AND SERIAL NO. NM-6682
2. NAME OF OPERATOR BCO, INC.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 135 GRANT, SANTA FE, NEW MEXICO 87501	7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2270' FNL - 1650' FEL	8. FARM OR LEASE NAME FEDERAL B
14. PERMIT NO.	9. WELL NO. 12
15. ELEVATIONS (Show whether DF, RT, GR, etc.) GL: 7308'	10. FIELD AND POOL, OR WILDCAT LYBROOK GALLUP
	11. SEC., T., R., M., OR BLK. AND SUBVY OR AREA SEC 27 T23N R7W NM
	12. COUNTY OR PARISH SANDOVAL
	13. STATE NEW MEXICO

RECEIVED
MAY 20 1992
OIL CON. DIV.
DIST. 3

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

TEST WATER SHUT-OFF	DRILL OR REPER CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE	ABANDONMENT	SHOOTING OR ACIDIZING	ABANDONMENT
REPAIR WELL	CHANGE PLANS	(Other) Complete & place in production	XX
(Other)		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

4/28/92 Great Guns logged cement (Cement Bond - VII Gamma Ray Log) from 1350' - 1700'; 1900' - 2250'; 4250' - 4550'; 4800' - 5760'. PBDT determined to be 5760'. Perforated with one 0.38" select fire shot with 3 7/8" gun at 5278', 5444', 5448', 5452', 5560', 5566', 5570', 5574', 5589', 5614', 5630', 5646', 5658', and 5662'.

5/01/92 Rigged up Big A completion rig.

5/04/92 Picked up PPI Packer with 6' spacing. Ran packer on 2 3/8" tubing to 5266'.

5/05/92 Installed Halliburton on-off tool. Set packer at 5266'. Tested casing to 4000 pounds. Casing held. With packer at 5386' pumped 400 gallons 15% FE HCL and followed with 45 barrels water to clean tubulars. Broke down each perforation with straddle packer and total of 1300 gallons of 7 1/2% FE HCL. Came out of hole with packer and tubing.

18. I hereby certify that the foregoing is true and correct

SIGNED Elizabeth B. Keeshan TITLE President

(This space for Federal or State office use)

DATE May 13, 1992

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE
MAY 18 1992

ACCEPTED FOR RECORD

*See Instructions on Reverse Side
NMOCD

FARMINGTON RESOURCE AREA
BY Sm

BCO, Inc.
135 Grant
Santa Fe, New Mexico 87501

SUNDRY NOTICES AND REPORTS ON WELLS

Lease No: NM-6682

Page Two

5/06/92 Because of results of breakdown indicating erratic hole sizes, perforated with one 0.32" hole at 5569. Spearheaded 500 gallons 7 1/2% NE HCL ahead of 60 quality foam pad. Pumped approximately 15,000 gallons of pad and had to shut down because unable to achieve sheduled nitrogen rate.

5/07/92 Fracture stimulated Gallup (5278' - 5662') with 325,000 pounds 16/30 Brady sand in 154,000 gallons 60 quality internal phase fraction foam. Average injection rate 35 foam barrels per minute. Average treating pressure 3800 PSIG. Flushed with water. ISIP 1020, 5 minute 856, 10 minute 806, 15 minute 729. Opened well on 1/2" choke. Put well to flow to tank when pressures were appropriately reduced.

5/08/92 Well flowing to tank. Killed well with 20 barrels water. Went in hole with tubing and tagged sand at 5640'. Cleaned out sand to 5760' PBTD with 124,000 scf of nitrogen. Landed tubing at 5648' KB. Pumped out expendable check. Placed well in production to clean out.

5/13/92 Well operating 28 trips a day on piston (gas-lift). Potentialled well 24 hours 5/12/92 - 5/13/92: Oil 38 barrels, recovered frac water 16 barrels, 200 MCF of gas.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions 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"/>	
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"/>	
2. NAME OF OPERATOR BCO, INC.			
3. ADDRESS OF OPERATOR 135 Grant, Santa Fe, NM 87501			
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 2270' FNL - 1650' FEL At top prod. interval reported below Same At total depth Same			
14. PERMIT NO. 30-043-20867		DATE ISSUED	
15. DATE SPUDDED 4/15/92		16. DATE T.D. REACHED 4/21/92	
17. DATE COMPL. (Ready to prod.) 5/07/92		18. ELEVATIONS (IDF, RKB, RT, GR, ETC.)* GL: 7308'	
19. ELEV. CASINGHEAD 7311'		20. TOTAL DEPTH, MD & TVD 5805	
21. PLUG. BACK T.D., MD & TVD 5760		22. IF MULTIPLE COMPL. HOW MANY*	
23. INTERVALS DRILLED BY XX		ROTARY TOOLS CABLE TOOLS	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 5278 - 5662 GALLUP			
25. TYPE ELECTRIC AND OTHER LOGS RUN CEMENT BOND - VIL GAMMA RAY LOG, INDUCTION GUARD LOG, COMPENSATED NEUTRON PE DENSITY LOG			
26. CASING RECORD (Report all strings set in well)			
CASING SIZE		WEIGHT, LB./FT.	
8 5/8		24# J-55	
4 1/2		11.6# J-55	
DEPTH SET (MD)		HOLE SIZE	
365		12 1/4"	
5803		7 7/8"	
CEMENTING RECORD		AMOUNT PULLED	
275 SACKS CLASS B		800 SACKS	
29. LINER RECORD			
SIZE		TOP (MD)	
BOTTOM (MD)		SACKS CEMENT*	
SCREEN (MD)		TUBING RECORD	
SIZE		DEPTH SET (MD)	
PACKER SET (MD)		2 3/8	
5648			
31. PERFORATION RECORD (Interval, size and number) ONE 0.38' SELECT FIRE SHOT AT 5278; 5444, 5448, 5452, 5560; 5566, 5570, 5574, 5589, 5614, 5630, 5646, 5658; 5662. ONE 0.32" SHOT AT 5569.			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
5278 - 5662		325,000 16/30 BRADY SAND.	
		154,000 GALLONS 60 QUALITY	
		INTERNAL PHASE FRACTION FOAM.	
		1,800 GALLONS 7 1/2% FE HCL.	
33. PRODUCTION			
DATE FIRST PRODUCTION 5/7/92		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) GAS LIFT	
WELL STATUS (Producing or shut-in) PRODUCING			
DATE OF TEST 5/12/92		HOURS TESTED 24	
CHOKE SIZE 25/64		PROD'N. FOR TEST PERIOD 38	
OIL—BBL. 38		GAS—MCF. 200	
WATER—BBL. 16		GAS-OIL RATIO 5250	
FLOW. TUBING PRESS. 230		CASING PRESSURE 570	
CALCULATED 24-HOUR RATE 38		OIL GRAVITY-API (CORR.) 40	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) VENTED		TEST WITNESSED BY ROBERT	
35. LIST OF ATTACHMENTS CEMENT JOB SUMMARY.			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.			

RECEIVED
MAY 22 1992

OIL CON. DIV.
DIST. 3

19 FARMINGTON, N.M.
PH 12:57
RECEIVED
MAY 14 1992
WAS DIRECTORIAL SURVEY MADE
YES FILED WITH
CD 4/27/92
WAS WELL LOGGED

ACCEPTED FOR RECORD

SIGNED Elizabeth B. Keshu TITLE President

DATE 5/13/92
FARMINGTON RESOURCE AREA
BY sm

38. SUMMARY OF POROUS ZONES: List all important zones of porosity and contents thereof, cored intervals, and all other pertinent data including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and other pertinent data.

GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
				OJO ALAMO	1424	1424
				KIRTLAND	1704	1704
				FRUITLAND	1858	1858
				PICTURED CLIFFS	2064	2064
				CHACRA	2470	2470
				MENEFEE	3610	3610
				POINT LOOKOUT	4408	4408
				MANCOS	4622	4622
				GALLUP	5272	5272

ATTACHMENT TO FORM 3160-4

FEDERAL B #12
(Well Name)

SEC 27 T23N R7W
(Sec, T, R)

NM-6682
(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 371' to surface. 275 sacks Class B, 2% CaCl₂, 1/4# flocele per sack mixed at 15.6 lbs with a yield of 1.18 or 325 cubic feet. Cement circulated to surface.

Rigged up Halliburton. Pumped 60 bbl pre-flush program then cemented casing in one stage with 640 sx 65/35 poz w/12% gel, 6.25 lb/sx gilsonite, 0.6% Halad-322 and 1/4 lb/sx flocele. (Density 11.3 lb/gal, yield 2.64 ft³ /sx.) Tailed in with 160 sx Class "G" w/6.25 lb/sx gilsonite, 8 lb/sx salt and 1/2 lb/sx flocele. (Density 15.2 lb/gal, Yield 1.38 ft³ /sx.) Plug down at 7:01 a.m. 4/22/92. Circulated 50 bbl (106 sx) good slurry.