

(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

Budget Bureau No. 1004-013
Expires August 31, 1985

6. LEASE DESIGNATION AND SERIAL NO.

SF-078562

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

LYBROOK

9. WELL NO.

2R

10. FIELD AND POOL, OR WILDCAT

ESCRITO GALLUP EXT.

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

SEC 22 T24N R7W

12. COUNTY OR PARISH 13. STATE

RIO ARRIBA. NEW MEXICO

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 ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

BCO, INC.

3. ADDRESS OF OPERATOR

135 GRANT

SANTA FE, NEW MEXICO 87501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

1695' FSL - 820' FEL.

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

GL 6748'

16.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(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 perti-
nent to this work.)*

Performed remedial cementing of production casing
to correct deficiency left by failed primary cement
job. Chronological log of operations is attached.

Other Attachments:

Copy of Halliburton Job Log.

Copy of Temperature Survey by Tefteller, Inc.

RECEIVED
OIL CON. DIV.
JUL 14 1992
14:11:30

RECEIVED
JUL 15 1992
OIL CON. DIV.
DIST. 3

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 July 13, 1992
ACCEPTED FOR RECORD

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

DATE JUL 15 1992

NMOCD

*See Instructions on Reverse Side

WASHINGTON RESOURCE AREA

ATTACHMENT TO SUNDRY NOTICE
FEDERAL LYBROOK 2-R SF-078562
(AKA Lybrook 22-2R)

Objective: Perform remedial cementing of 4-1/2" casing string to correct deficiency left by failed primary cement job.

07/07/92 - Rigged up and pulled tubing. Discussed job and time operation would begin with Wayne Townsend of BLM.

07/08/92 - Set tubing retrievable 4-1/2" bridge plug at 4300' using wireline. Capped plug with 10 gallons 24/40 sand and tested to 3000 psig.

Perforated casing at 3830' with two 0.38" holes. Set packer at 3420' and pumped fresh water w/ clay stabilizer. Obtained partial returns out bradenhead. Made attempts to gain full returns by pumping down bradenhead and up tubing but were unsuccessful in improving returns.

Cemented down tubing and into perfs at 3830' with 910 sx (1702 cubic feet) 65/35 poz w/ 6% gel, 4 lb/sx gilsonite, 1/4 lb/sx flocele and 0.6% Halad-322 (Yield 1.87 ft³/sx, density 12.3-12.4 lb/gal). Tailed w/ 12 sx class "B" + 2% CaCl₂ at 14.2 lb/gal with 1.3 ft³/sx yield. (Had attempted to tail in with 50 sx at 15.6 lb/gal with yield of 1.18 ft³/sx but Halliburton could not achieve target density so tail slurry was aborted.) Had partial returns during entire cement job.

Displaced cement 150' below packer and obtained hesitation squeeze to 1850 psi with cement level inside casing at 3697'. Shut well in for night.

07/09/92 - Ran Tefteller temperature survey and found top of cement at 1680' (Copy attached). Discussed with Wayne Townsend. BLM agrees that cement top is sufficient until abandonment. Discussed with Ernie Busch and Charles Gholson of NMOCD. Gholson concurs with BLM decision.

Ran in hole with bit and started drilling cement.

07/10/92 - Completed drilling of cement. Tested squeeze hole to 500 psig for 15 minutes and had no pressure loss. Circulated sand off of bridge plug and swabbed well down. Retrieved plug. Landed tubing and swabbed well.

07/11/92 - Pressures: Casing-390 Tubing-70. Anticipate having sufficient pressure to run piston on 7/12/92.

JOB LOG

WELL NO. 221 LEASE 11111111TICKET NO. CC7561CUSTOMER BCO Inc.PAGE NO. 1JOB TYPE SqueezeDATE 7-8-92

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	03:30							Called out for job
	04:00							In yard - Load out for jobs
	05:00							left yard
	05:30							in Bloomfield - stopped to eat and fuel
	06:00							left Bloomfield Headed for jobs
	07:40							on location, check mixing Bud & Jet
	08:30							Safety meeting - Halliburton Personnel
	08:35							Spot & Rig-up Equipment
	09:30							Ready to Pump as Requested
	10:02							Pump to Test Bridge Plug @ 4300'
	10:04	1	2 1/2				1700	Shut Down, Tighten Well Flange
	10:07	1						Pump to test
	10:12	—					2700	Shut Down, clean & Retighten Well Flange
	10:32	1						Pump to test
	10:36	—	5.9				3000	Shut Down, monitor PSI
	10:40	—					3000	Good test on Bridge Plug Release PSI
								Stand-by to Perform & R.E.H. W.P.H.
								@ 3420.63' (Perks @ 3830')
	12:14							Pump to load Backside
	12:15		1				500	Loaded - PSI to 500
	12:16						500	Shut Down, Switch to Tubing
	12:18							Pump to Establish Circulation
								and or Injection Rate
	12:19	4					2400	
	12:21		35-					Intermittent Returns Thru Bridge Head
	12:40		88	TOTAL			2700	Shut Down I S I P - SCOPE
	12:43							Release PSI, Switch to Pump Down Bridge Head
	12:52	1					1350	Pump Down Bridge Head
	12:54		2					Shut Down
	12:57	2					1000	Pump Down Bridge Head
	13:09		2					Shut Down, Switch to Tubing
	13:12	3 1/2					2000	Pump Down Try, Intermittent Returns
	13:28							Shut Down, water dripping out B.H.
								Stand by to De Churn out
								Job
								Go to Page Two

JOB LOG

WELL NO.

21

LEASE

7/10/92

TICKET NO.

227328

CUSTOMER

BCO Inc

PAGE NO.

2

JOB TYPE

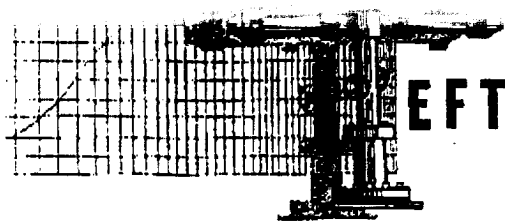
Squeeze

DATE

7-8-92

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	14:45	1 1/2	10			1000		Pump C&A ² H ₂ O
	14:51	1 1/2	5			1100		Pump Fresh H ₂ O
	15:10	3 1/2	18			2075		Pump SuperFlush
	15:16	1	5			2100		Pump H ₂ O
	15:18	4	310			2000		Mix and Pump lead Cont @ 12.3 #/gal
	16:35	1	228					Mix and Pump Tail Cont @ 15.3 #/gal
	16:37							Shut Down with problems, lost
								Prime on Mixing Pump
	16:55					—		Wash Pumps and lines
	16:57	2.8	14.5			1700		Displaced Cont
	17:02	.25				1400		Slow Rate
	17:05		15.5	Total Disp				Shut Down to Hesitate Squeeze
	17:11					1300/1400		Pump to Squeeze
	17:14		+1			1400/950		Shut Down wait 20 min
	17:20					—		Wash tub out
	17:32					1000		PSI lines to 1000
	17:35					950/1700		Pump to Squeeze
	17:40		+1			1200/1150		Shut Down Hesitate 5 min
	17:54					1150/1550		Pump to Squeeze
	17:56		+ 1/2			1550/1400		Shut Down, Close in Well
	18:00							Crew Released
								Thank you for Calling Halliburton Services
								Alan, Wayne & Crew
								Left 1.5 BBLs Tail Cont in CSS
								which put 1.3 BBLs Tail thru H ₂ O's



TEFTELLER, INC.

reservoir engineering data

MIDLAND, TEXAS / FARMINGTON, NEW MEXICO
GRAND JUNCTION, COLORADO

P. O. Box 5278
Midland, Texas 79704-5278
(915) 694-0477

Midland Fax (915) 694-7602
Farmington Fax (505) 325-1148
Grand Junction Fax (303) 241-7634

July 10, 1992

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

Attention: Mr. Neel L. Duncan

Subject: Temperature Survey
Lybrook No. 2-R
Rio Arriba County, New Mexico
File No. 1-12882-TS

Dear Mr. Duncan:

Attached hereto are the results of a temperature survey which was conducted on the above captioned well July 9, 1992.

The data presented are in graphical form.

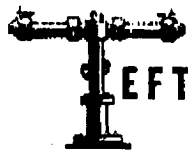
It has been our pleasure to have conducted this service for you. If we may be of further assistance, please call us at any time.

Respectfully submitted,

TEFTELLER, INC.

Neil Tefteller

NT/lw



LEFFELLER, INC.

reservoir engineering data
MIDLAND, TEXAS

Page 1 of 1
File 2-23882-TS

TEMPERATURE SURVEY LOG

