

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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. SF-078562	
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 1695' FSL - 820' FEL.		8. FARM OR LEASE NAME LYBROOK	
14. PERMIT NO.		9. WELL NO. 22-2R	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) GL 6748'		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 RIO ARRIBA.	
		13. STATE NEW MEXICO	

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

NOTICE OF INTENTION TO RECEIVED JUN - 9 1992 OIL CON. DIV. DIST 2		SUBSEQUENT REPORT OF: WATER SHUT-OFF <input type="checkbox"/> FRACTURE TREATMENT <input type="checkbox"/> SHOOTING OR ACIDIZING <input type="checkbox"/> (Other) Complete & place in production <input checked="" type="checkbox"/> (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	
TEST WATER SHUT-OFF <input type="checkbox"/> FRACTURE TREATMENT <input type="checkbox"/> SHOOT OR ACIDIZE <input type="checkbox"/> REPAIR WELL <input type="checkbox"/> (Other) <input type="checkbox"/>		REPAIRING WELL <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> ABANDONMENT* <input type="checkbox"/>	
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 to be re-drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)			

5/20/92 Rigged up Triple "P" Well Service. Ran in hole with 2 3/8" tubing with 2 3/8" collar on bottom. Circulated contaminated mud out of hole. Mud had PH of 11.8 - 12.0 and a marsh funnel viscosity of 200 + sec/quart. Very high gel strength.

Mechanically opened stage collar. Rigged up Halliburton on casing/tubing annulus and established injection through stage collar ports. Broke at 2000 PSIG. Injected 4.5 BPM @ 1862 PSIG and 0.5 BPM at 1459 PSIG. ISIP 1360 PSIG. Observed no communication with Bradenhead. Apparently injecting into the Mancos formation. Shut down for night.

RECEIVED
BLM
JUN - 3 PM 12:41
FARMINGTON, N.M.

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

SIGNED <u>Elizabeth B. Keeshan</u>	TITLE <u>PRESIDENT</u>	DATE <u>6/2/92</u>
(This space for Federal or State office use)		
APPROVED BY _____	TITLE _____	DATE <u>JUN 14 1992</u>
CONDITIONS OF APPROVAL, IF ANY:		

FARMINGTON RESOURCE AREA
BY MT

*See Instructions on Reverse Side

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- 5/21/92 Mixed 120 barrels mud with 35 sacks sodium bentonite plus 1 sack soda ash plus 11 sacks cedar fiber. Vis = 40-50 sec/qt. Mud very uniform. 11:25 a.m. - rig up to spot mud. Spotted mud down tubing to stage collar w/packer. Set packer at 4503'. Began pumping down tubing w/casing valve open and Bradenhead valve open. Pumped 2 barrels mud into DV tool at 1500 PSIG then had sudden rise in pressure to 3000 PSIG with no injection. Attempted injection at 3500 PSIG - but could not inject. Tied on to Bradenhead and loaded with 14 barrels mud. Pumped 1 additional bbl and pressure climbed to 500 PSI. Shut down to repair casinghead. Pumped additional 5 bbl mud down Bradenhead at 800 PSI. Had slight communication with casing when pressure was released. Pumped down tubing into tool and pressured up to 2500 PSI with slight communication but no established rate. Pumped down Bradenhead @ 900 PSI with 4 bbl mud and had improved communication but still only 5 gal/min. Bled back pressure and 2 bbl mud. Pumped through tubing into tool to 2000 PSI with no communication at all. Pumped 9 bbl mud down Bradenhead @ 1650 PSIG with only trickle of communication. Reversed mud out of hole with CF water. Swabbed 18 bbl water in 5 runs and had no fluid entry. Shut down for night.
- 5/22/92 Casing 0 PSI, tubing 0 PSI, Bradenhead strong vacuum. Made 1 swab run but no fluid. Fluid @ seating nipple. Rigged up Halliburton nitrogen. Pumped down tubing to stage collar. Pressured up to 4000 PSIG and could not establish injection. Released packer and ran in hole to top of DV tool bomb. Jetted stage tool with nitrogen (2300 SCF over tubing volume). Set packer on top of stage collar and pressurized to 4000 PSIG but could not establish injection. Pulled out of hole with Packer. Rigged in hole with 3 7/8" bit. Tagged stage tool at 4542' and closed. Drilled out stage tool in 29 minutes. Tagged debris from stage collar at 4860'. Worked to 4900' in 1 hour with rotation and circulation. Shut down.

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- 5/23/92 Continued drilling on debris at 4900'. Made 60' in 30 minutes. Made additional 30' in 5 minutes. Rigged down power swivel. Continued in hole to 5677' PBTD. Circulated hole with clayfix II in fresh water. Shut down for Sunday, Monday and Tuesday.
- 5/27/92 Rigged up Petro Wireline. Ran Cement Bond Log and Variable Density Log, Zero pressure pass 5676' - 5300'. Ran 1000 PSI pass 5676' - 5300'. Excellent cement. Logger's TD 5677'. Ran 1000 PSI pass 4650' - 4325'. Top of good cement @ 4434'. Absolute top of cement 4396'. Removed BOP and nipped up swedge. Tested casing to 4025 PSI for 15 minutes with no pressure loss. Nipped up BOP. Perforated Gallup with 0.32" EHD shots in 3 1/8" HC select fire gun at 5436', 5440', 5567', 5570', 5577', 5580'. Ran in hole with straddle packer on 6' spacing. Shut down for night with 10 stands out.
- 5/28/92 Set straddle packer at 5363' and tested to 4000. O.K. Cleaned tubing and casing by circulating 700 gal 10% HCL. (Halliburton made 300 gal error in favor @ loading dock) with packer @ 5582'. Broke down perfs as follows: (Actually pumped bottom to top)

PERF	RATE	x	PRES	ISIP	3-MIN	TUBING	PERFS	EST HOLE SIZE	COM - MUNICATED
5436	3.0	x	3364	519	239	717	2128	.33	No
5440	3.0	x	3500	568	375	717	2214	.32	Yes
5567	3.0	x	3680	528	0	735	2417	.32	No
5570	3.0	x	3300	515	36	733	2052	.33	Yes
5577	3.2	x	3383	550	36	820	2013	.34	Yes
5580	3.0	x	3900	600	35	736	2564	.31	Yes

Reversed remaining acid out of hole with packer at bottom. Pulled out of hole with packer. Shut down for night. Note: Total acid used on Perfs = 1000 gal of 7.5% (167 gal/perf). Used new technique whereby 75 gallons were injected into each perf followed by a 5-minute shut down. Remaining acid and 1.2 bbl water were

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5/28/92 (Continued)

injected following the shut down period. Hole sizes
ISIP's were determined from the second pumping.

5/29/92 Rigged up Halliburton to frac. Fracture stimulated
Gallup 5436' - 5580' down casing with 16/30 Brady sand
70 quality CIP N2 foam at 18 bbl/minute until screen out
occured with 165,000 lb sand and 88,000 gal foam in
formation. Schedule: a) 24,000 PAD @ 3400 PSIG (used
5,000 lb sand @ 1/2 #/gal in last 10,000 gal of PAD).,
b) 6,000 # @ 1#/gal 3180 PSIG, c) 9,000 # @ 1.5 #/gal
@ 3075 PSIG, d) 28,000 # @ 2 #/gal @ 2934 PSIG,
e) 35,000 # @ 2.5 #/gal @ 2850 PSIG, f) 42,000 # @
3 #/gal @ 2885 PSIG, g) 40,000 # @ 4 #/gal @ 3000 PSIG.
(Note: Sand totals represent total sand in formation).
Screened out to 4000 PSIG with 12,300 lb sand in well
bore. Shut in 1 hour and began flow-back on 3/4" choke.

5/30/92 Ran in hole with 2 3/8" tubing and tagged sand at 5401'.
Cleaned out sand to 5677' using nitorgen at a
circulation rate of 600 SCF/min. Landed tubing at 5573'
using sawtooth collar, seating nipple, 169 joints 2 3/8"
4.7# J-55 EUE tubing, one 6' sub and one 8' sub.
Dropped ball and pumped out expendable check value on
bottom of tubing. Cleared wellbore of water using
nitrogen and began charging wellbore. Noted leak in
tubing head (Incorrect cap had been shipped with tubing
head.) Killed tubing and casing w/water and replaced
cap. Cleaned up well with an additional 50,000 SCF N2.
Charged wellbore to 800 PSIG. Bled through perms to 740
PSIG. Attempted to produce but tubing died in 15
minutes with no loss of pressure on casing (remained at
740 PSIG). Suspected that expendable check value had
not sheared and made attempt to manually shear using
sinker bars. No success. Pulled swab and had no fluid
entry. Shut down for night and Sunday.

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6/01/92 Pumped 25 bbl Clayfix water down tubing and tubing would not pressure up. Dropped standing value, loaded and pressure tested tubing to 1500 PSIG for 15 minutes. Held. Made 3 swab runs to unload tubing. Pulled tubing and found that check valve had sheared. Landed tubing at 5573' as originally landed.

Ran in hole with swab cups and tagged fluid at 4500'-5000' feed from surface. Swabbed 30 bbls 98% water in 13 runs. Shut down for night. Will continue swab tests.