

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. 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 790' FNL - 790' FEL Sec 27 T24N R7W NMPM	8. FARM OR LEASE NAME Lybrook
14. PERMIT NO.	9. WELL NO. #1 7
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6939 DF	10. FIELD AND POOL, OR WILDCAT Escrito Gallup
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 27, T24N, R7W NMPM
	12. COUNTY OR PARISH Rio Arriba
	13. STATE NM

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) See Below

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 pertinent to this work.)

Set plugs for abandonment behind existing production casing and ran full-length 3 1/2" liner inside original casing. Liner was cemented from top to bottom.

Gallup was then perforated and fracture stimulated.

A detail of the work performed is attached.

RECEIVED

SEP 15 1992

OIL CON. DIV
DIST

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

SIGNED [Signature] TITLE Petroleum Engineer

DATE September 9, 1992

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

ACCEPTED FOR RECORD

DATE
SEP 14 1992

FARMINGTON RESOURCE AREA

BY [Signature]

*See Instructions on Reverse Side

NMOCD

Attachment to Sundry Notice
Lybrook 7-27 No. 1 aka Lybrook 7 (OCD)
Workover Summary

- 08/10/92 - Nipped up BOP. Pulled tubing and production packer. Replaced 75 bad collars (severe erosion). Ran in hole with RTTS packer and bridge plug. Isolated bad casing from 4298'-3193'. Found second leak below 600' but did not isolate. Had good pipe between 3161' and 2213'.
- 08/11/92 - Discussed situation with Wayne Townsend of BLM. Planned to set plugs for abandonment behind 4-1/2" casing then make slim-hole completion with new 3-1/2" pipe.
- 08/12/92 - No rig activity.
- 08/13/92 - Pulled packer and bridge plug. Changed out all bad collars on tubing.
- 08/14/92 - Ran in hole with washover pipe and catchers and retrieved fish from bottom of hole. (Mud anchor, perforated sub, and 1/2 joint of tubing.) Shut down for weekend.
- 08/17/92 - Marko Kechman of BLM on location to witness abandonment cementing operations. Rigged up Great Guns Logging unit. Ran cement bond log across Gallup. Perforated for abandonment with 2 shots each at 2996', 2404' and 1740'. Ran in hole with 25 jts tailpipe and packer. Spotted 40 sx (46 ft³) Class "G" cement (1.15 ft³/sx, 15.8 lb/gal) across Gallup from 5744' to 5240'. Attempted to squeeze cement into Gallup but could not set packer. Later found that Gallup had taken 2 bbl of cement.
- Pulled up hole and spotted 1 bbl balanced plug from 3165'-3100' using 10 sx class "B". Pulled packer and shut down for night.
- 08/18/92 - Marko Kechman of BLM on location to witness abandonment cementing operations. RIH w/ packer and tagged temporary plug at 3130'. Set packer at 2592' and pumped with communication between annulus and tubing. Pumped dye followed by 53 bbl water and had no dye in returns. Determined that fluid was entering hole at 2996' and communicating behind casing so okay to cement. Cemented Mesa Verde with 40 sx (47 ft³) Class "B" cement with 2% CaCl₂ at 15.6 lb/gal. Displaced with 16 bbl water and held squeeze for 1 hr. No flowback when pressure released.

Waited on cement for total of 1.5 hrs until surface sample was hard. Set packer at 2213' and established injection into perf at 2400' with 100% returns. Cemented PC/Fruitland with 97 sx (115 ft³) Class "B" w/ 2% CaCl₂ at 15.6 lb/gal. Displaced with 11.3 bbl water. Held squeeze for 45 minutes until no flowback. Reversed to ensure packer clear then pulled packer. Waited on cement for 1 hr and 45 minutes.

Set packer at 663' to cement Ojo Alamo through perf at 1740'. Broke circulation and cemented with 110 sx (130 ft³) Class "B" w/ 2% CaCl₂ at 15.6 lb/gal. Displaced with 19.4 bbl water. Released packer after 1 hr. Waited on cement for 2 hrs and 15 minutes.

Pulled packer and pumped surface plug via casing through hole in casing at 632'. Established rate with intermittent full and partial returns out bradenhead. Cemented down casing with 175 sx (207 ft³) class "B" w/ 2% CaCl₂ and 1/2 lb per sack floccle. Displaced with 9.5 bbl water. Did not circulate cement.

Made plans to cement surface plug down bradenhead during cement job of 3-1/2" casing.

Picked up bit and drill collars and started drilling cement. Tagged cement at 538', drilled to 633' and fell through. Shut down for night.

08/19/92 - Continued in hole and tagged and drilled cement from Ojo Alamo plug at 1644', drilled PC/Fruitland plug at 2339', and drilled Mesa Verde plug at 2940'. Tagged and drilled out cement across Gallup from 5384' to 5768'. PBTD is now 5768'. Layed down 2-3/8" tubing and prepared to run 3-1/2" casing.

08/20/92 - Began welding and running 3-1/2" 6.65# .188" wall grade X-42 pipe in hole. Pipe has no threads and collars. Each joint is welded together. Ran 1/2 of string and shut down for weekend and heavy rains. No activity 8/21 through 8/24.

08/25/92 - Finished running 3-1/2" casing. Tagged bottom at 5768' and landed at 5762' (128 joints). Set slips. Sheared expendable check valve using sinker bars.

08/26/92 - Established circulation down 3-1/2" x 4-1/2" annulus and up 3-1/2" casing. Prepared for cementing.

08/27/92 - Cemented 3-1/2" casing by reverse cementing technique. Pumped 130 sx Class "G" with 2% CaCl₂ at 15.8 lb/gal down 3-1/2" x 4-1/2" annulus. Have cement from top to bottom. Measured 26 bbl returns from casing using displacement tanks.

Cemented down 4-1/2" x 8-5/8" bradenhead with 45 sx (53 ft³) class "B" w/ 2% CaCl₂. This fulfills plugging requirements for 4-1/2" casing.

08/28/92 - Tagged cement inside 3-1/2" casing at 5420' and drilled out to 5762' PBTD.

08/31/92 - Performed mechanical integrity test on new casing. Pressure tested to 3978 psig and held 20 minutes. No loss. Rigged up Petro Wireline and perforated with 0.34" holes at 5584', 5587', 5590', 5710', 5713', 5716', 5719', 5722', 5725', 5728', and 5731' (11 holes).

- 09/01/92 - Broke down perfs 5584'- 5731' individually with 7.5% HCl.
- 09/02/92 - Fracture stimulated well with 148,828 lb 16/30 Brady sand in 105,000 gal 70 quality N₂ foam. Screen out occurred in 3# stage with 148,828 lb sand in formation. Pumped pad and sand through 2.5# at 20 BPM and pumped 3# sand at 18 to 12 bbl/minute. Avg treating pressure 3600 psig. Opened well on 1/2" choke after 1 hr.
- 09/03/92 - RIH w/ tubing and cleaned out sand from 5592' to 5762' using nitrogen. Landed 2-1/16" tubing at 5710' (178 jts).
- 09/04/92 - Replaced crimped joint of 2-1/16" tubing. Swabbed well in.
- 09/09/92 - Testing well. Operating on piston.

HALLIBURTON SERVICES

JOB LOG

ORM 2013 R-2

WELL NO. 7-27 LEASE Lybuck TICKET NO. 229342
 CUSTOMER BCU Inc. PAGE NO. 1 of 4
 JOB TYPE Set Plugs & Squeeze DATE 8-17-92

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	06:00							Called out For Job
	10:00							ON Location w/ Cementing Equipment
	10:07							tail Gate Safety Meeting with Halliburton Cementing Personnel
	10:15							Set up Cementing Equipment For Job
	11:00							"Rigged-up" - Stand-by
	13:07	2				⊗	⊗	Pump to Break Circulation
	13:10	2	5			130		Caught BE
	13:11	2	6.8			180		Circulating, mix cement
	13:28	2	17	Total 1170	After	150		Pump cement @ 15.6 L/GAL
	13:32	2	-			-		Shut Down, Wash Pumps
	13:34	2 1/2	7.5	cut		50	50	START Displacement
	13:42	-	20.0	Displ		280	280	Displacement in, Shut Down
	13:43	-				⊗	⊗	open Release, Flow Back 18BBL
		-				-	-	Pull up Hole to 500' (Bottom of tubing)
	14:01	2 1/2				⊗	⊗	Pump to Reverse out
	14:15	-	30	1170		-	280	Reversed - Circulate H ₂ O to Surface
								Then Drilling Mud, - Set Packer
reset PKR	14:17	2	2			100	100	Pump to Squeeze, Circulating - Shut Down
reset PKR	14:22	2	2			110	110	Pump to Squeeze, " " " "
reset PKR	14:25	2	2			110		Pump to Squeeze, " " " "
								check tally: T.I.H. 1 1/2 stands
	14:37	2 1/2	18				340	Pump to Reverse, Intermittent Returns
	14:53	2	2			310		Pump Down tubing to clear (Pulled 1 1/2 stands)
	14:54							Pump to Rev. - OK
								T.I.H. w/ 1 1/2 stands 5058' Bottom of tubing -
	14:58		1.0			300		Pump Down tubing - Clear
	15:02	2.6				180		Pump to Rev. out
	15:22		56			180		Circulating Drilling mud - Shut Down
								Set Packer
	15:25	1.8	2			⊗	⊗	Pump to Squeeze, (Circulating - S.D.), Reset Packer
	15:28	2	1					Pump to Squeeze, (Circulating - S.D.)
								Go to Page 2

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HALLIBURTON SERVICES

JOB LOG

FORM 2013 R-2

WELL NO. 7-27 LEASE Lybrook TICKET NO. 229342
 CUSTOMER BCC Inc. PAGE NO. 2 of 4
 JOB TYPE Set Plugs & Squeeze DATE 8-17-52

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	15:28							T.I. Ho 1 more stand, to Put
								Pecker @ 4298'
	15:47					732		Pump to test Pecker Set - OK!
	15:50							Release Pecker - Pump to Rev. CUF.
	15:51							NO Good.
	15:52	2 1/4				285		Down tubing - OK
	15:53	4				380		Pump to Reverse
	15:59	1 1/2	17 - H ₂ O					Shut Down, Set Pecker
	16:00					2600/4 -		Pump to squeeze, Brake Back
	16:01							Communicating - Shut Down.
								Pull 36.5 stands
	16:37	2	19 H ₂ O			214		Break circulation
	16:40					-		Mix Cont @ 15.6 1/2 gal + (Fusit Circle)
	16:47	1 1/4				-		Pump 1 BBL Cement
	16:51		1 CUF			-		Shut Down, wash Pump & liner.
	16:53	2 1/2				50		Pump H ₂ O to Balance
	16:55					-		Shut Down, Bal. OK P.O.O.H.
								Remove Pecker ^{Tax} Pecker. I.O. Ho w/PRK.
	18:00							Crew Released, Thru For Day
								8-18-52
	07:00							On Location, Safety meeting - "Big up"
	07:15							Ready to Pump, stand - ing
	07:40							TAG 1 H ₂ O @ 3130', Pull up
								Set Pecker @ 2592
	08:15							Est Inj. Rate
	08:17	1 1/2				300		
	08:18	1 1/2						Communicating, Shut Down, Rev. - 1 H ₂ O
	08:20		6.5 - H ₂ O			340/6		Shut Down, Reset Pecker
	08:22							EIR.
	08:23							Shut Down, Communicating, Pull 15'
	08:37	1	1 H ₂ O					EIR, same, Shut Down
								GO in hie 15' Ho,
	09:00	1.5				280		Pump 1/2 Sweep
	09:30	1.5	53 H ₂ O			350/6		Shut Down, Communicating Thru Parts

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HALLIBURTON SERVICES

JOB LOG

ORM 2013 R-2

WELL NO. 7-27 LEASE Lybrook TICKET NO. 279342
 CUSTOMER B.C.O. PAGE NO. 3 of 4
 JOB TYPE Set Plugs and Squeeze DATE 8-17-92

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	09:37	1 1/2						Break Circulation
	09:40	1 1/2						mix Cement @ 15.6 #/gal
	09:43	1 1/2	6	H70		240		Pump Cement @ 15.6 #/gal
	09:47	—	8.4	WT		—		Shut Down, Wash Pumps & Lines
	09:49	1.5				0		Start Displacement
	09:53	2				0		Dye to Surface (70 BBLs dye sweep)
	09:55	2	11			250		Caught Cement
	10:00	—	16	TRAIL VESSEL		350/72		Displacement in, Shut Down - W.O.C.
	10:49					85/0		Release PST, check for backflow - NONE
								Pull up Hole Set Packer @ 2213'
								Stand-by
	11:35	1 1/2						Break Circulation
	11:36	1 1/2	1 1/2					OK
	11:38	1 1/2						mix Cement
	11:40	1 1/2				250		Pump Cement
	11:53	—	20.4	CAT		250		Shut Down - Wash Pumps & Lines
	11:53	1 1/2						St. Displ.
	11:55	1 1/2	46	DISP				Caught Cement
	12:00	—	11.3	TRAIL VESSEL		340/103		Disp. in 5th 1/2 down - wash tools
	12:20	—				138/4		check for flow - YES
	12:21	.5				142		Re Pressure
		—						Check for Flow off bottom
	12:46	—						NO Flow BACK - Pull 1 Stand
	12:50	1 1/2				10/100		Pump to Reverse
	13:05	1 1/2/0	25	H20		230/0		Reversed out - NO Cement Returns
								Pull up Hole and Set Packer
								@ 663' to Squeeze DSU Slime @ 1740'
								- 1450'
	13:42							Break Circulation
	13:43		1	H70		20		Caught PC
	13:44					300		Shut Down
	13:45	1.1				400		ETK
	14:00	.3				425		Established Rate
	14:02	3				700		ETK w/100 PSI MAX
	14:04	3	4	H70		700		mix Cement @ 15.6 #/gal
	14:05	3	23.0	CAT		930		Pump Cement @ 15.6 #/gal

CUSTOMER

CRM 2013 R-2

[illegible]**CUSTOMER**

ATTACH TO
INVOICE & TICKET NO

229 342

DATE 8-17-92

YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

LD Highway 16 COUNTY Rio Arriba STATE N.M. OWNED BY SAME

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ☐ ANNULUS ☐ CASING ☐ TUBING/ANNULUS ☒ HYDRAULIC HORSEPOWER ORDERED

Mix and Pump Cement Plug, Squeeze as necessary in order to prepare well to run 3 1/2" casing

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
DATE 08-11-2010 BY 60322 UCBAW

⁶ To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act to the extent that it may apply to the above-captioned transaction.

g. That this contract shall be governed by the law of the state where services are performed or performed or intended to be performed.

b) That Halliburton shall not be bound by any changes or modifications in this contract except where such change or modification is made in writing by a duly authorized representative of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT
THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT

SIGNED _____

DATE 8-17-92

TIME 12:18 A.M. P.M.

certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

FIELD Lylebrook SEC. 27 TWP. 24N RANG. 7W COUNTY RIC ARIZONA STATE N.M.

FORMATION NAME Callup TYPE OIL

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

PRESENT PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

COMPLETION DATE _____ MUD TYPE NA MUD WT. N/A

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH 5788+

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>U</u>	<u>9.5</u>	<u>4 1/2</u>	<u>0</u>	<u>5788</u>	<u>3000</u>
LINER						
TUBING	<u>U</u>	<u>4.7</u>	<u>2 3/8</u>	<u>0</u>	<u>5744-47</u>	<u>3000</u>
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT		ON LOCATION		JOB STARTED		JOB COMPLETED	
DATE	<u>8-17-92</u>	DATE	<u>8-17-92</u>	DATE	<u>8-17-92</u>	DATE	<u>8-17-92</u>
TIME	<u>06:00</u>	TIME	<u>10:00</u>	TIME	<u>13:07</u>	TIME	<u>18:30</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>Ivan Webster</u>	<u>40553</u>	<u>ARMINGTON</u>
<u>77972</u>	<u>Pack-up</u>	
<u>Randy Snyder</u>	<u>52335-7404</u>	<u>ARMINGTON</u>
<u>88177</u>	<u>Rim (P)</u>	
<u>Jim Schneider</u>	<u>6510</u>	<u>N.M.</u>
<u>F2918</u>	<u>Bulk</u>	
<u>Mike Murvisey</u>	<u>7715</u>	
<u>18653</u>	<u>Bulk</u>	<u>11</u>
<u>Eve Williams</u>	<u>7481</u>	
<u>New</u>	<u>Extra</u>	<u>11</u>
<u>Jim Schneider</u>	<u>7481</u>	<u>11</u>
<u>F2918</u>	<u>Bulk</u>	

DEPARTMENT SWCDESCRIPTION OF JOB Set Pugs and Squeezes ss
messaging in order to prepare well
to run casingJOB DONE THRU: TUBING ☐ CASING ☐ ANNULUS ☐ TBG/ANN ☒CUSTOMER REPRESENTATIVE X NEEL DUNCANHALLIBURTON OPERATOR Ivan Webster COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	40	Premium	Ideal	13	NEAT	1.15	15.8
2	10	STANDARD	Ideal	13	2% CCLZ	1.18	15.6

PRESSURES IN PSI

SUMMARY

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM 2600

AVERAGE _____ FRACTURE GRADIENT _____

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____

HYDRAULIC HORSEPOWER _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 274' REASON Request

VOLUMES

PRESLUSH 17.9 GAL 6.5 GAL 4.50 TYPE _____

LOSS PREVENT 30.18 GAL 56.25 GAL 17.9 GAL 9.5 GAL

TREATMENT 53 GAL 17.9 GAL 17.9 GAL 17.9 GAL

CEMENT SLURRY 8.2 GAL 1.8 GAL 20.1 GAL 23.1 GAL

TOTAL VOLUME 466.5 GAL

REMARKS See Job Log 11

HALLIBURTON SERVICES

JOB LOG

FORM 2013 R-2

WELL NO. 7-27 LEASE Lybrook TICKET NO. 229144
 CUSTOMER B.C.O. Inc PAGE NO. 1
 JOB TYPE Run 4 1/2 RDS + RBP DATE 8-10-92

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
8-10	0800							On Site. Close down well + full tubing - H.L. release. To be done with pickup + make-up tool trip into hole.
	1245							Set RBP at 4875' Set RBP at 4852 FT. Rig To Pressure Test Plug Held 1500 PSI.
	1430							Pull up 20 stand down. Run stand in to find Bottom of Hole. Bottom of Hole at 4207-4292. Pull up to 3350 connect. Pull up to 3035' Inject. Down tubing at 1500 - 1 RBP. No coming. Injectal down Annulus 2 RBP. 650 No connect. Trip in to find Top of Lower Hole - Hole at 3292-3201. Trying to find Top of Top Hole. Come up Brandon Head. Top Hole is between 600-632. Top of Top Hole wait on orders. Tool Head Release.
	2000							On Site.
	2030							Trip in H.L. To remove RBP. Release RBP + Trip out of hole.
12-13	0745							
	0820							
	0935							

CUSTOMER

JOB SUMMARY

HALLIBURTON Western AREA
DIVISION

HALLIBURTON LOCATION Farmington N.M.

BILLED ON
TICKET NO. 227144

WELL DATA
 ELD Lallop F-50170 SEC 27 TWP 24N RNG 7W COUNTY Rio Arriba STATE NM

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
PACKER TYPE _____ SET AT _____
BOTTOM HOLE TEMP. _____ PRESSURE _____
ISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	4	9.5	4 1/2	0		
LINER						
TUBING	11	48	2 3/4	0		
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES				
TYPE AND SIZE		QTY.	MAKE	
OAT COLLAR				
OAT SHOE				
JIDE SHOE				
ENTRALIZERS				
OTTOM PLUG				
P PLUG				
AD				
CKER	4 TTS 4 1/2	1	Hale	
HER	4 PPS 4 1/2	1	Hale	

CALLED OUT 8-10-92 DATE TIME 0400	ON LOCATION 8-10-92 DATE TIME 0805	JOB STARTED 8-10-92 DATE TIME 1100	JOB COMPLETED 8-12-92 DATE TIME
--	---	---	--

PERSONNEL AND SERVICE UNITS

[illegible]

MATERIALS

EAT. FLUID _____ DENSITY _____ LB/GAL. API _____
SPL. FLUID _____ DENSITY _____ LB/GAL. API _____

OP. TYPE _____ SIZE _____ LB. _____
OP. TYPE _____ SIZE _____ LB. _____

IID TYPE _____ GAL. _____ %
IID TYPE _____ GAL. _____ %
IID TYPE _____ GAL. _____ %

RFRACTANT TYPE _____ GAL. _____ IN _____
AGENT TYPE _____ GAL. _____ IN _____

UID LOSS ADD. TYPE _____ GAL. LB. _____ IN _____
LLING AGENT TYPE _____ GAL. LB. _____ IN _____
IC. RED. AGENT TYPE _____ GAL. LB. _____ IN _____

EAKER TYPE _____ GAL. LB. _____ IN _____
OCKING AGENT TYPE _____ GAL. LB. _____

RFPAC BALLS TYPE _____ QTY. _____
HER _____
HER _____

DEPARTMENT Tool

DESCRIPTION OF JOB Run 4 1/2 RTT - ABP T
Final Hole in CS9

JOB DONE THRU: TUBING ☐ CASING ☐ ANNULUS ☐ TBG/ANN. ☒

CUSTOMER REPRESENTATIVE ☒ Tool at Landing F/BW

HALLIBURTON OPERATOR H. H. Smith COPIES REQUESTED

CEMENT DATA

[illegible]

PRESSURES IN PSI

CULATING _____ DISPLACEMENT _____
 EAKDOWN _____ MAXIMUM _____
 ERAGE _____ FRACTURE GRADIENT _____
 UT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____
 HYDRAULIC HORSEPOWER
 DERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM
 EATING _____ DISPL _____ OVERALL _____
 CEMENT LEFT IN PIPE
 IT _____ REASON _____

SUMMARY

PRESLUSH: BBL-GAL _____ TYPE _____
LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____
TREATMENT: BBL-GAL _____ DISPL: BBL-GAL _____
CEMENT SLURRY: BBL-GAL _____
TOTAL VOLUME: BBL-GAL _____

REMARKS

CUSTOMER

LEASE

WELL NO

7.23

JOB TYPE

DATE



HALLIBURTON SERVICES
Oklahoma, Oklahoma 73103

FORM 1908 R-7

A Division of Halliburton Company

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ATTACH TO
INVOICE & TICKET NO. 229144

DISTRICT Farmington N.M.

DATE 8-10-77

HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO: BCO Inc (CUSTOMER)

AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 7-27 LEASE Pybuck SEC 27 TWP. 24N RANGE 24W

LD Pybuck Co. et al COUNTY Lin STATE N.M. OWNED BY BCO Inc

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING		11	9.5	4 1/2	0		
LINER							
TUBING		4	4.7	2 1/2	0		
OPEN HOLE							SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ☐ ANNULUS ☐ CASING ☐ TUBING/ANNULUS ☐ HYDRAULIC HORSEPOWER ORDERED _____

Run 4 1/2 RTTS + RCP to find HL 1059

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

By consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

To pay Halliburton the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month. Payment shall be made by check or money order, payable to Halliburton, or by bank draft, payable to the order of Halliburton, or by credit card, payable to Halliburton, or by any other method approved by Halliburton. Payment shall be made in full by the 20th of the following month, but not to exceed 18% per annum. If the event it becomes necessary to employ attorneys to enforce collection of said account, customer agrees to pay, without limitation, all the reasonable costs of 50% of the amount of the unpaid account.

To extend, defend, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and all of their officers, directors, employees, agents and servants of all of them, from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:

1. Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner, or different from Customer, including, but not limited to, damage to subsurface damage. The term "well owner" shall include working and royalty interest owners.
2. Reservoir formation or wellbore or damage, subsurface trespass or any action in the nature thereof.
3. Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or wellbore or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material).

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b, and Section c below, shall apply to claims or liability, if and only if, such claims or liability are caused by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton, or any defect in the data, products, supplies, materials or equipment of Halliburton, or in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such obligations, including release and hold harmless obligations, of Customer and not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b and c shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them.

c. That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton personnel, and use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.

d. That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy, in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

e. That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing unless such loss or damage is caused by the sole negligence of Halliburton.

f. To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.

g. That this contract shall be governed by the law of the state where services are performed or materials are furnished.

h. That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED Robert E. Felt CUSTOMER

DATE 8-10-77

TIME 8:40 AM P.M.

certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

CUSTOMER