

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ATTACH TO
INVOICE & TICKET NO. 381911

DISTRICT Farmington New Mex

DATE 11-19-72

TO: HALLIBURTON SERVICES

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

THE SAME AS AN INDEPENDENT CONTRACTOR TO: BCO Inc

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

WELL NO. Judy #1 LEASE Essex to G. H. Up SEC. 17 TWP. 24 N RANGE 7 W

FIELD _____ COUNTY Rea STATE New Mex OWNED BY BCO Inc

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO 5160
PACKER: TYPE E2SV SET AT 5900
TOTAL DEPTH _____ MUD WEIGHT _____
BORE HOLE _____
INITIAL PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF
PRESENT PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	<u>US-1</u>		<u>5 1/2</u>	<u>0</u>	<u>5900</u>	
LINER						
TUBING	<u>US-1</u>	<u>4.7</u>	<u>2 3/8</u>	<u>0</u>	<u>5160</u> <u>5900</u>	
OPEN HOLE						SHOTS/FT.
PERFORATIONS					<u>5200</u>	<u>2</u>
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

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

Squeeze 2 Sets Per.

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

THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

As consideration, the above-named Customer agrees:

- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists.
- Halliburton shall not be responsible for and Customer shall secure Halliburton against any liability for damage to property of Customer and of the well owner (if different from Customer), unless caused by the willful misconduct or gross negligence of Halliburton, this provision applying to but not limited to subsurface damage and surface damage arising from subsurface damage.
- Customer shall be responsible for and secure Halliburton against any liability for reservoir loss or damage, or property damage resulting from subsurface pressure, losing control of the well and/or a well blowout, unless such loss or damage is caused by the willful misconduct or gross negligence of Halliburton.
- Customer shall be responsible for and secure Halliburton against any and all liability of whatsoever nature for damages as a result of subsurface trespass, or an action in the nature thereof, arising from a service operation performed by Halliburton hereunder.
- Customer shall be responsible for and secure Halliburton against any liability for injury to or death of persons, other than employees of Halliburton, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole, unless such damage shall be caused by the willful misconduct or gross negligence of Halliburton.
- Halliburton makes no guarantee of the effectiveness of the products, supplies or materials, nor of the results of any treatment or service.
- 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.
- 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 accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be responsible for any damages arising from the use of such information except where due to Halliburton's gross negligence or willful misconduct in the preparation or furnishing of it.
- 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.
- Upon Customer's default in the payment of Customer's account 60 days after date of invoice, such account will thereafter be subject to interest until paid. In the event it becomes necessary to employ an attorney to enforce collection of such account, Customer agrees to pay all collection costs and attorney fees in the amount of 20 per cent of the amount of the unpaid account.
- 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 X Harry X 22 CUSTOMER

DATE 11-19-1972

TIME 15:30

JOB LOG

CUSTOMER BCO Inc

PAGE NO. 1

JOB TYPE Squeeze

DATE 11-19-72

FORM 2013

CHART NO	TIME	RATE (BPM)	VOLUME (BBL) (GALL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
1	4:10	5	125	1		1300		Ch. Hole w/ Fresh Water
	4:55	1/2	1 1/2	1		3000		Test Tubing
	4:57	3	3		1	25	2500	Test Casing
	5:05	6	4	1		1800	900	Inj Rate
	5:07	5	21	1		2000		Mix Cement
	5:12	5				2000	900	Thru mix Start Disp
	5:20	4	23	1		3600	900	Disp In Tool Clear
								2000 ± Standing Pressure
	1:05	4	5			1500		Break Down
	1:08	4	51	1		1700	500	Mix Cement
	1:23			1		2000	500	Thru mix
	1:24	2		1		1300	500	Displace
	1:33			1		1800	500	Thru Displacement
								Thru Displacement Pull Tubing

Thank You
Larry

HALLIBURTON SERVICES JOB SUMMARY

FORM 2012

HALLIBURTON DIVISION Milling Tools

HALLIBURTON LOCATION Freeport N.M.

BILLED ON TICKET NO. 301911

WELL DATA

FIELD	SEC.	TWP.	RNG.	COUNTY	STATE
				<u>Rio Arriba</u>	<u>New Mexico</u>
FORMATION NAME	TYPE				
FORMATION THICKNESS	FROM	TO			
INITIAL PROD: OIL	BPD.WATER	BPD.GAS	MCPD		
PRESENT PROD: OIL	BPD.WATER	BPD.GAS	MCPD		
COMPLETION DATE	MUD TYPE	MUD WT.			
PACKER TYPE <u>CZ-SV</u>	SET AT <u>5500-5160</u>				
BOTTOM HOLE T. MP.	PRESS: JRE				
MISC. DATA					

JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>11-19-72</u>	DATE <u>11-19-72</u>	DATE <u>11-19-72</u>	DATE <u>11-23-72</u>
TIME <u>1030</u>	TIME <u>1500</u>	TIME <u>1600</u>	TIME <u>1230</u>

PERSONNEL AND SERVICE UNITS

NAME	EMPL. NO.	UNIT NO. & TYPE	LOCATION
<u>G.A.W. Hill</u>	<u>2311</u>	<u>7501</u>	<u>Freeport</u>
<u>T. Beagle</u>		<u>712</u>	<u>Freeport</u>
<u>A.A. Burns</u>			<u>Freeport</u>
<u>C. Tucker</u>		<u>Bull</u>	<u>Freeport</u>
<u>M. Davis</u>		<u>9080</u>	<u>Freeport</u>
<u>J. Shippert</u>		<u>Tool Man</u>	<u>Freeport</u>
		<u>Fls Man</u>	<u>Freeport</u>

DEPARTMENT Cement

DESCRIPTION OF JOB

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

CUSTOMER REPRESENTATIVE X

HALLIBURTON OPERATOR Anthony Halliburton COPIES REQUESTED

CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>125</u>	<u>HEAF</u>	<u>A</u>	<u>Iron</u>	<u>BR</u>		<u>1.18</u>	<u>13.6</u>
<u>2</u>	<u>150</u>	<u>"</u>	<u>C</u>	<u>"</u>	<u>"</u>	<u>47.601 12% H.C. 1.18 75.18</u>	<u>1.93</u>	<u>12.5</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING	DISPLACEMENT	PREFLUSH: BBL-GAL. <u>5-10</u>	TYPE
BREAKDOWN	MAXIMUM	LOAD & BKDN: BBL-GAL.	PAD: BBL-GAL.
AVERAGE	FRACURE GRADIENT	TREATMENT: BBL-GAL.	DISPL: BBL-GAL. <u>25-30</u>
SHUT-IN: INSTANT	5-MIN. 15-MIN.	CEMENT SLURRY: BBL-GAL. <u>72 - 21.5</u>	
HYDRAULIC HORSEPOWER		TOTAL VOLUME: BBL-GAL. <u>131</u>	
ORDERED	AVAILABLE	REMARKS	
AVERAGE RATES IN BPM			
TREATING	DISPL.	OVERALL	
CEMENT LEFT IN PIPE			
FEET	REASON		

FORM 2-12

BILLED ON
TICKET NO. 436797

WELL DATA

JOB DATA

TOOLS AND ACCESSORIES

MATERIALS

CEMENT DATA

PRESSURES IN PSI

SUMMARY

VOLUMES

REMARKS

CUSTOMER BCO, Inc. LEASE 1 WELL NO. 1 JOB TYPE Sandwater DATE 12-5-72

CUSTOMER BCO, Inc.

PAGE NO. 1

JOB TYPE Sandwater

DATE 12-5-72

FORM 2013

CUSTOMER

BCO, Inc.
Judy # 1
Ticket 436797
December 5, 1972

Spot 500-gallons
Acid

Breakdown

Establish rate
Start sand at 1#

Flowrate---

Treating

Drop 8 balls

Balls hit

Drop 8 balls

Balls hit
Start flush

Job completed

CHART 53651

5000 THE FOXBORO COMPANY 10000 FOXBORO, MASS., U.S.A.

16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

100 90 80 70 60 50 40 30 20 10

5000 4500 4000 3500 3000 2500 2000 1500 1000 500

PSI

GPM