



A Division of Halliburton Company
DUNCAN, OKLAHOMA 73336

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

FORM 1908 R-3

ATTACH TO INVOICE & TICKET NO. 412375

DISTRICT LIBERAL KS DATE 11-3-82

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: Amoco Oil Co (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 4 LEASE S.H. County Storage Well SEC. _____ TWP. _____ RANGE _____
FIELD _____ COUNTY CANAWA STATE KS OWNED BY Amoco Oil Co

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.
FORMATION THICKNESS	FROM TO						
PACKER TYPE	SET AT						
TOTAL DEPTH	MUD WEIGHT						
OPEN HOLE							SHOTS/FT.
INITIAL PROD: OIL BPD, H ₂ O BPD, GAS MCF							
PRESENT PROD: OIL BPD, H ₂ O BPD, GAS MCF							
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

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

plug Back.

CUSTOMER OR HIS AGENT WARRANTS 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:
- (a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists.
 - (b) 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.
 - (c) 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.
 - (d) 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.
 - (e) 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.
 - (f) Halliburton makes no guarantee of the effectiveness of the products, supplies or materials, nor of the results of any treatment or service.
 - (g) 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.
 - (h) 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.
 - (i) 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.
 - (j) Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
 - (k) This contract shall be governed by the law of the state where services are performed or equipment or materials are furnished.
 - (l) 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 _____ CUSTOMER
DATE _____
TIME _____ A.M. P.M.

We 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

HALLIBURTON SERVICES JOB SUMMARY

FORM 2022

HALLIBURTON
DIVISION

Wichita Ks

HALLIBURTON
LOCATION

Liberal Ks

BILLED ON
TICKET NO.

412375

WELL DATA

WELL ID: _____ SEC. _____ TWP. _____ RNO. _____ COUNTY GRAVIT STATE Ks

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS FROM _____ TO _____

VITAL PRODI OIL _____ SPD. WATER _____ SPD. GAS _____ MCFD

PRESENT PRODI OIL _____ SPD. WATER _____ SPD. GAS _____ MCFD

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

ACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

LOG DATA _____ TOTAL DEP. 1660

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>V</u>	<u>20"</u>	<u>7"</u>	<u>6.2</u>	<u>1660</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>11-3-82</u>	DATE <u>11-3-82</u>	DATE <u>11-4-82</u>	DATE <u>11-4-82</u>
TIME <u>06:00</u>	TIME <u>8:15</u>	TIME <u>1233</u>	TIME <u>1415</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
LOAD COLLAR		
LOAD SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
ACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>E. DAVID</u>	<u>7183</u>	<u>Liberal Ks</u>
<u>Erich Prosser</u>	<u>29459</u>	<u>Liberal Ks</u>
<u>Harlow</u>	<u>CMT</u>	<u>Hugo, Tex Ks</u>

MATERIALS

REAT. FLUID _____ DENSITY _____ LB/GAL API

HEPL. FLUID _____ DENSITY _____ LB/GAL API

ROP. TYPE _____ SIZE _____ LB.

ROP. TYPE _____ SIZE _____ LB.

CID TYPE _____ GAL _____ %

CID TYPE _____ GAL _____ %

CID TYPE _____ GAL _____ %

URFACTANT TYPE _____ GAL _____ IN

E AGENT TYPE _____ GAL _____ IN

FLUID LOSS ADD. TYPE _____ GAL-LB. _____ IN

ELLING AGENT TYPE _____ GAL-LB. _____ IN

RIC. RED. AGENT TYPE _____ GAL-LB. _____ IN

REARER TYPE _____ GAL-LB. _____ IN

LOCKING AGENT TYPE _____ GAL-LB. _____

EFFAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT CMT

DESCRIPTION OF JOB plug back

JOB DONE THRU: TUBING CASING ANNULUS TRO. ANN.

CUSTOMER REPRESENTATIVE [Signature]

HALLIBURTON OPERATOR [Signature]

COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF BAGS	TYPE	API CLASS	BRAND	BULK BAGGED	ADDITIVES	YIELD CU. FT./SK.	MIXED LBS./GAL.
	<u>320</u>	<u>H</u>	<u>H</u>	<u>Harlow</u>	<u>B</u>	<u>WOWL</u>	<u>1.18</u>	<u>15.6</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

INSULATING _____ DISPLACEMENT _____ PRESURING BBL-GAL _____ TYPE _____

BEARDOWN _____ MAXIMUM _____ LOAD & BROKE BBL-GAL _____ PAID BBL-GAL _____

VENASE _____ FRACTURE GRADIENT _____ TREATMENT BBL-GAL _____ DISPLI BBL-GAL _____

MUT-INI INSTANT _____ 5-MIN. _____ 15-MIN. _____ CEMENT SLURRY 67 BBL-GAL _____

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME 67 BBL-GAL _____

ORDERED _____ AVAILABLE _____ USED _____ REMARKS _____

AVERAGE RATES IN BPM _____

REATING _____ DISPL. _____ OVERALL _____ CEMENT LEFT IN PIPE _____

KEY _____

CUSTOMER

JOB LOG

WELL NO. 4

LEASE

TICKET NO. 4133 95

CUSTOMER Amoco Oil Co.

PAGE NO. 1

JOB TYPE plug Back

DATE 11-3-92

FORM 1013 R-2

CHART NO.	TIME	RATE (OPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	06:00							called out
	08:15							on loc.
	08:20							wait on Perforators
								set up TRK
	10:00							Get + dunk in 1.6
	12:00							Run out From loc time
								until 114-92 due to completion
	11:45							On location 11-4-92
								Run Crew Preparation to scrub hole
	12:15							Swabbing completed
	12:30							Miner Connect
1	12:33	1	4			0	0	Shot 1st Plug
	12:33							All Plug Check "H" sized at 15.5 1/2 in
	12:37							R. Pullin 3 joints
2	12:41	1	4			0	0	Pumpin 2nd Plug
	12:45							R. Pullin 3 joints
3	12:47	1	4			0	0	Pumpin 3rd Plug
	12:51							R. Pullin 4 joints
4	12:54	1	4			0	0	Pumpin 4th Plug
	12:58							R. Pullin 3 jts
5	13:00	1	4			0	0	Pumpin 5th Plug
	13:04							R. Pullin 3 jts
6	13:06	1	4			0	0	Pumpin 6th Plug
	13:10							R. Pullin 4 joints
7	13:12	1	4			0	0	Pumpin 7th Plug
	13:16							R. Pullin 3 joints
8	13:18	1	4			0	0	Pumpin 8th Plug
	13:22							R. Pullin 4 joints
9	13:26	1	4			0	0	Pumpin 9th Plug
	13:30							R. Pullin 3 joints
10	13:32	1	4			0	0	Pumpin 10th Plug
	13:36							R. Pullin 3 joints
11	13:38	1	4			0	0	Pumpin 11th Plug
								R. Pullin 4 joints

JOB LOG

WELL NO. 1 LEASE _____ TICKET NO. 412375

CUSTOMER A-1000 PAGE NO. 2

JOB TYPE Plug Back DATE 11-3-92

FORM 2013 R-2

CHART NO.	TIME	RATE (DPM)	VOLUME (DDL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
12	1345	1	4			0		Pumping 12th Plug
	1349							Rig pulling 2 1/2
13	1351							Pumping 13th Plug
	1352							From returning at surface through
	1356							annulus
	1358	1	4			0		Rig Pulling 3 joints
14	1358							Pumping 14th Plug
	1309							Rig Pulling 5 joints
								Cement in tubing at surface
								and filling
15	1401	1	3			0		Pump 15th Plug with 1 joint of
	1413							Tubi left in hole
								P. & D. 1st joint
								Cement at surface
								Job completed
								Thank you
								to Billie Halliburton