



CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
1	0500							Called out
	0630							on loc
	0645							Rig up (Sally running)
	0734	1.0	-			1500		Start pumping start disp
	1025	-	50			-		Shut down Change Bits
	1033	1.0	-			1200		Start pumping R2H.
	1248	1.0	70			4400		END 11/2 TBG C 5515
	1249	1.5	-			4400		Start gel water
	1306	1.5	25			4400		END gel water
	1306	1.0	-			4400		Start Bline
2	1645	1.0	225			-		END Bline 7.2 Bline to surface
	1647	1.0	-			4400		Start Flush
	1654	1.0	5			4400		END Flush
	1654	-	-			-		max cant 16.4 ft 1.06 mps
	1655	.8	-			4700		Start cant
	1705	1.5	9.4			4700		END cant
	1705	1.5	-			4700		Start Disp
	1716	-	11.5			-		END Disp
	1716	-	-			-		P.O.O.h
	1723	1.5	-			1500		Start pumping 7.2 Bline
	1738	1.5	20			1500		END Bline Start Flush
	1807	-	12			-		END Flush TBG Chan
	1830	-	-			-		Released for day
								7-28-72
3	0530							Called out
	0700							on loc
	0715							R2H to R2H
	0710							guns went 20 to bottom
	0817	1.0	-			4000		R2H with Bit start pump gel water
	0830		103			2700		TBG C 500'
	0900		49			2700		P.O.O.h.
	0908		57			-		Shut down
	0931							Pressure @ 3310
	0934					700		Pressure up 559 No Rate
	1000					1000		Pressure up
	1001					650		Blind off
	1002					1000		Pressure up



# HALLIBURTON SERVICES

## JOB LOG

WELL NO. 2 LEASE Hilly C13 TICKET NO. 234157  
 CUSTOMER Champion U.S.A PAGE NO. 2  
 JOB TYPE P.T.A. DATE 7-29-12

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
3	1020						1200	Pressure up
	1021						700	Shut down
	1025						700	Pressure Hld @ 700 PSI
	1026							Single Well 1200 PSI to 0
	1057	1.0	-				1050	Injection Rate
	1077	1.0	10				1100	END RATE 1 BPM @ 1100 PSI
	1078	-	-				-	Shut down well flowing
	1126	.5	-			1200		R/W Start Pumping Blind
	1204		20			-	-	Tbg @ 3315' Shut down well flowing
4	1319	1.0	-			4400		Start flush
	1323	1.0	5			4400		END FLUSH
	1323	-	-			-		Pressure @ 16.4 gpm 1.06 m³/hr
	1324	1.0	-			4800		Start Cont (150 SKS)
	1401	.5	28.3			4900		END CONT T.O.C @ 2576'
	1401	.5	-			4900		Start DISP P.H.S @ 3310
	1415	-	11.5			-		END DISP
	1415	.5	-			2500		P.O.C. Start Pumping
	1427	1.0	"			4500		Clean Tbg.
5	1459	-	22			-		Shut down
	1455	.4	-			200		Pressure up 15g SQUELGE CONT
	1501	-	5			550		Shut down
	1508		5			400		Pressure up
	1509		5.5			550		Shut down
	1510		5.5			470		Pressure up
	1521		6.0			550		Shut down
	1525		6.0			480		Pressure up
	1526		6.5			560		Shut down
	1530		6.5			500		Pressure up
	1535		8.0			600		Shut down
	1554		8.0			450		Pressure up
	1557		7.0			620		Shut down
	1617		7.0			450		Pressure up
	1620		10.0			620		Shut down
	1650		10.0			400		Pressure up
	1653		11.0			700		Shut down



## JOB LOG

CUSTOMER Chickasaw U.S.A. PAGE NO. 3

JOB TYPE P. I. H. DATE 1-28-72

PUMPS	PRESSURE (PSI)	

Thanks, Pauline




**HALLIBURTON SERVICES**  
 Duncan, Oklahoma 73536

A Division of Halliburton Company

**TICKET**  
**NO. 234957-8**

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME <b>Z Hickey C+S</b>		COUNTY <b>Rio Blanco</b>	STATE <b>Colo</b>	CITY / OFFSHORE LOCATION	DATE <b>7-27-92</b>
CHARGE TO <b>Cheslon U.S.A.</b>	OWNER <b>SANAL</b>	TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>		NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
ADDRESS <b>TZ 72DLRTBS055</b>	CONTRACTOR <b>OTIS</b>	1 LOCATION <b>UINAL</b>		CODE <b>055685</b>	
CITY, STATE, ZIP	SHIPPED VIA <b>TAK</b>	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT		2 LOCATION	
WELL TYPE <b>01</b>	WELL CATEGORY <b>02</b>	WELL PERMIT NO.	DELIVERED TO <b>loc</b>	3 LOCATION	
TYPE AND PURPOSE OF JOB <b>115 PTA</b>		<b>B- 967178</b>	ORDER NO.	REFERRAL LOCATION	

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices payable NET by the 20th of the following month after date of invoice. 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. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

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 FOR A PARTICULAR PURPOSE 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, product liability, 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.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
					QTY	MEAS	QTY	MEAS			
000-117				MILEAGE ROAD (TAKIN)						NC	
000-117				Crew mileage	50	mi			1.35	67	50
009-018				PUMP CHARGE	1	EA	8	HRS.		2040	00
009-027				ADDITIONAL HRS	4	EA			230. <sup>00</sup>	920	00
128-546				SQUEEZE MANDRILL	1	EA				165	00
				7-28-92							
000-117				Crew mileage	50	mi			1.35	67	50
009-019				PUMP CHARGE	1	EA	3315	FT		1670	00
009-027				ADDITIONAL HRS	4	HRS			230. <sup>00</sup>	920	00
128-546				SQUEEZE MANDRILL	1	EA				165	00
				7-27-92							
000-117				Crew mileage	50	mi			1.35	67	50
009-019				PUMP CHARGE	1	EA	500	FT		760	00
128-546				SQUEEZE MANDRILL	1	EA				165	00
				TOTAL COST - 12,522.35							
				SPECIAL DISCOUNT							1878 35

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.


**B-**

5514 85

WAS JOB SATISFACTORILY COMPLETED?

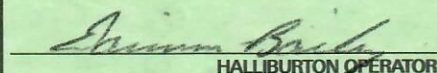
WAS OPERATION OF EQUIPMENT SATISFACTORY?

WAS PERFORMANCE OF PERSONNEL SATISFACTORY?

 X   
 CUSTOMER OR HIS AGENT (PLEASE PRINT)

 X **PTA2-7146-32-S**  
 CUSTOMER OR HIS AGENT (SIGNATURE)

 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.

  
 HALLIBURTON OPERATOR
HALLIBURTON  
APPROVAL

FIELD OFFICE

SUB  
TOTALAPPLICABLE TAXES WILL  
BE ADDED ON INVOICE.

10,644 00



# **WORK ORDER CONTRACT AND PRE-TREATMENT DATA**

ATTACH TO  
INVOICE & TICKET NO. 234757

DISTRICT Vernal

DATE 7-27-92

TO: **HALLIBURTON SERVICES**

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

THE SAME AS AN INDEPENDENT CONTRACTOR TO: Chesapeake U.S.A. (CUSTOMER)  
AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 2 LEASE Haley C+S SEC. 2 TWP. 1N RANGE 102W

FIELD Ranley COUNTY Rio Blanco STATE Colo OWNED BY SANAC

**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						
BORE HOLE							
INITIAL PROD:	OIL BPD, H <sub>2</sub> O BPD, GAS MCF						
PRESENT PROD:	OIL BPD, H <sub>2</sub> O BPD, GAS MCF						
CASING		<u>U</u>	<u>23</u>	<u>7"</u>	<u>0</u>	<u>P&amp;D</u>	
LINER							
TUBING		<u>U</u>	<u>ENDLESS TBS</u>	<u>1 1/2</u>	<u>0</u>	<u>5585</u>	
OPEN HOLE							SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

PREVIOUS TREATMENT: DATE TYPE MATERIALS

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

Provide area equipment, materials to P.T.A. well as instructed.

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

As consideration, the above-named Customer agrees:

THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. 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 attorneys 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.
- To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the 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:
  - Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
  - Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
  - Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), 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 even if caused or contributed to 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 whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall 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.
- 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. 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 liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
- 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.
- 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.
- To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
- That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- 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 [Signature] CUSTOMER

DATE 7-27-92

TIME 8:00 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.

**FIELD OFFICE**



# JOB SUMMARY

 HALLIBURTON  
DIVISION  
HALLIBURTON  
LOCATION

 Denver  
Vernal

 BILLED ON  
TICKET NO. 234737

**WELL DATA**

FIELD Rampley SEC. 2 TWP. 14 RNG. 102W COUNTY Rio Blanco STATE CO

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE	
FORMATION THICKNESS	FROM	TO	CASING	<u>U</u>	<u>23</u>	<u>7</u>	<u>0</u>	<u>PBTD</u>
INITIAL PROD: OIL	BPD. WATER	BPD. GAS	LINER					
PRESENT PROD: OIL	BPD. WATER	BPD. GAS	TUBING	<u>U</u>	<u>23</u>	<u>1.44</u>	<u>0</u>	<u>3585</u>
COMPLETION DATE	MUD TYPE	MUD WT.	OPEN HOLE					SHOTS/FT.
PACKER TYPE	SET AT		PERFORATIONS					
BOTTOM HOLE TEMP.	PRESSURE		PERFORATIONS					
MISC. DATA	TOTAL DEPTH		PERFORATIONS					

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

**JOB DATA**

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>7-27</u>	DATE <u>7-27</u>	DATE <u>7-27</u>	DATE <u>7-27</u>
TIME <u>0500</u>	TIME <u>0830</u>	TIME <u>0934</u>	TIME <u>0950</u>

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
<u>D. Bailey</u>	<u>40736</u>	<u>Vernal</u>
<u>R. P. ...</u>	<u>2100</u>	<u>"</u>
	<u>7061</u>	<u>"</u>
	<u>BUT</u>	<u>"</u>
	<u>52512-3741</u>	<u>"</u>

**MATERIALS**

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB./GAL.-API  
 DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB./GAL.-API  
 PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.  
 PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.  
 ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
 ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
 ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
 SURFACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN.  
 NE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN.  
 FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.  
 GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.  
 FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.  
 BREAKER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.  
 BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_  
 PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_  
 OTHER \_\_\_\_\_  
 OTHER \_\_\_\_\_

DEPARTMENT CRAT  
 DESCRIPTION OF JOB P.T.A.

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

CUSTOMER REPRESENTATIVE X [Signature]

HALLIBURTON OPERATOR D. Bailey COPIES REQUESTED \_\_\_\_\_

**CEMENT DATA**

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>50</u>	<u>H</u>	<u>P.P</u>	<u>B</u>	<u>.6% halad 322</u>	<u>1.06</u>	<u>16.4</u>
<u>2</u>	<u>150</u>	<u>H</u>	<u>P.P</u>	<u>B</u>	<u>.6% halad 322</u>	<u>1.06</u>	<u>16.4</u>
<u>3</u>	<u>105</u>	<u>H</u>	<u>P.P</u>	<u>B</u>	<u>.6% halad 322</u>	<u>1.06</u>	<u>16.4</u>
<u>4</u>	<u>30</u>	<u>H</u>	<u>P.P</u>	<u>B</u>	<u>.6% halad 322 (1/2 on 61 TOP OUTSIDE)</u>		

**PRESSURES IN PSI**
**SUMMARY**
**VOLUMES**

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRESURUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
 BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
 AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. \_\_\_\_\_  
 SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY: BBL.-GAL. \_\_\_\_\_  
 HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_  
 ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ REMARKS  
 AVERAGE RATES IN BPM \_\_\_\_\_  
 TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
 CEMENT LEFT IN PIPE \_\_\_\_\_  
 FEET \_\_\_\_\_ REASON \_\_\_\_\_  
SEE JOB 109.

 CUSTOMER: Chadwick USA  
 LEASE: Harley CTS  
 WELL NO.: 2  
 JOB TYPE: P.T.A.  
 DATE: 7-27-92