

SIDE ONE

ORIGINAL

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

Operator: License # 9911  
Name: Har-Ken Oil Company  
Address 2932 NW 122nd - Unit 16

City/State/Zip Oklahoma City, OK 73120

Purchaser: \_\_\_\_\_

Operator Contact Person: M. Stuart Kirk

Phone (405) 752-0318

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Paul D. Willis

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  Temp. Abd.

Gas  Inj  Delayed Completion

Dry  Other (Core, Water Supply, etc.)

If **OWMO**: old well info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Drilling Method:

Mud Rotary  Air Rotary  Cable

2-05-90 2-10-90 7-25-90

Spud Date Date Reached TD Completion Date

API NO. 15- 009-24,406 0000  
County Barton ✓

NE SE NW Sec. 28 Twp. 16 Rge. 11  East  West

3630 ✓ Ft. North from Southeast Corner of Section

2970 ✓ Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

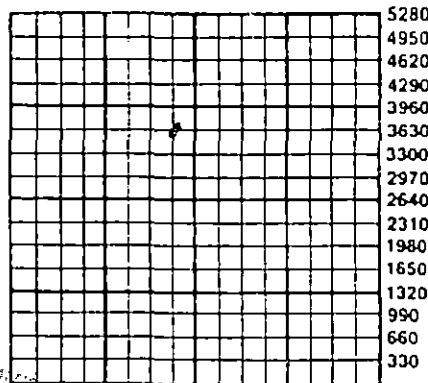
Lease Name Rous ✓ Well # 1

Field Name Kraft-Prusa

Producing Formation Lansing, Conglomerate, Arbuckle

Elevation: Ground 1918 KB 1923

Total Depth 3455' PBDT \_\_\_\_\_



*Rec'd*  
*08-13-90*

RECEIVED

*Aug 13 1990*

CONSERVATION DIVISION  
Wichita

Amount of Surface Pipe Set and Cemented at 401' Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cm.

**INSTRUCTIONS:** This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers time log shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature M. Stuart Kirk  
Title Agent Date 8-10-90

Subscribed and sworn to before me this 10th day of August

19-90  
Notary Public Paul D. Willis

Date Commission Expires February 20, 1994

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Drillers Timelog Received  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other  
(Specify)

*y pl*

SIDE TWO

Operator Name Har-Ken Oil Company Lease Name Rous Well # 1  
 East County Barton  
 Sec. 28 Twp. 16 Rge. 11  West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Formation Description</b> <input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample <table border="0"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Bottom</th> </tr> </thead> <tbody> <tr> <td>Anhydrite</td> <td>765</td> <td>793</td> </tr> <tr> <td>Howard</td> <td>2639</td> <td>2654</td> </tr> <tr> <td>Topeka</td> <td>2674</td> <td>2968</td> </tr> <tr> <td>Heebner</td> <td>2968</td> <td>2971</td> </tr> <tr> <td>Toronto</td> <td>2984</td> <td>2997</td> </tr> <tr> <td>Douglas</td> <td>2997</td> <td>3064</td> </tr> <tr> <td>Brown Lime</td> <td>3064</td> <td>3073</td> </tr> <tr> <td>Lansing</td> <td>3085</td> <td>3326</td> </tr> <tr> <td>Conglomerate</td> <td>3352</td> <td>3387</td> </tr> <tr> <td>Arbuckle</td> <td>3387</td> <td>--</td> </tr> </tbody> </table>	Name	Top	Bottom	Anhydrite	765	793	Howard	2639	2654	Topeka	2674	2968	Heebner	2968	2971	Toronto	2984	2997	Douglas	2997	3064	Brown Lime	3064	3073	Lansing	3085	3326	Conglomerate	3352	3387	Arbuckle	3387	--
Name	Top		Bottom																																
Anhydrite	765		793																																
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Lansing	3085	3326																																	
Conglomerate	3352	3387																																	
Arbuckle	3387	--																																	
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																		
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No																																		
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																		

CASING RECORD <input checked="" type="checkbox"/> New <input checked="" type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8-5/8"	20#	401'	60/40poz	195	2%gel 3% cc.
Production	7-7/8"	5 1/2"	15.5#	3451'	60/40poz	150	18% salt .75% Halad 322

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
Shots Per Foot	Specify Footage of Each Interval Perforated	Amount and Kind of Material Used	Depth
2	3393-95	Dumped 1 bbl acetic acid plus 1 bbl wtr.	3393-95
4	3388-92	200 gal 15% NE acid, 350 max press @ 1/4 BPM 1000 gal 15% NE acid w/250 gal diverter, used 750 gal diesel pad	3388-92

TUBING RECORD Size Set At Packer At Liner Run  Yes  No

Date of First Production Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls. D & A	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION:  Open Hole  Perforation  Dually Completed  Commingled  Other (Specify) Plugged 7-25-90

Production Interval

ORIGINAL

8. Drill Stem Tests:  Yes  No

Dst # 1 Formation Lansing Test Interval 3065 to 3120 ft. Times: OP 10" SI 20" OP 10" SI 20"  
 Recovery: 20' Mud

Pressures: ISIP 224 IFP 72-36 IHP 1561 BHT 103°  
 FSIP 65 FFP 65-36 FHP 1547

Dst # 2 Formation Arbuckle Test Interval 3356 to 3393 ft. Times: OP 30" SI 60" OP 60" SI 60"  
 Recovery: 200' Gas in pipe, 80' clean gassy oil, 120' gas cut mud

Pressures: ISIP 1036 IFP 43-58 IHP 1669 BHT 102°  
 FSIP 957 FFP 72-94 FHP 1647

Dst # \_\_\_\_\_ Formation \_\_\_\_\_ Test Interval \_\_\_\_\_ to \_\_\_\_\_ ft. Times: OP \_\_\_\_\_ SI \_\_\_\_\_ OP \_\_\_\_\_ SI \_\_\_\_\_  
 Recovery: \_\_\_\_\_

Pressures: ISIP \_\_\_\_\_ IFP \_\_\_\_\_ IHP \_\_\_\_\_ BHT \_\_\_\_\_  
 FSIP \_\_\_\_\_ FFP \_\_\_\_\_ FHP \_\_\_\_\_

Dst # \_\_\_\_\_ Formation \_\_\_\_\_ Test Interval \_\_\_\_\_ to \_\_\_\_\_ ft. Times: OP \_\_\_\_\_ SI \_\_\_\_\_ OP \_\_\_\_\_ SI \_\_\_\_\_  
 Recovery: \_\_\_\_\_

Pressures: ISIP \_\_\_\_\_ IFP \_\_\_\_\_ IHP \_\_\_\_\_ BHT \_\_\_\_\_  
 FSIP \_\_\_\_\_ FFP \_\_\_\_\_ FHP \_\_\_\_\_

Dst # \_\_\_\_\_ Formation \_\_\_\_\_ Test Interval \_\_\_\_\_ to \_\_\_\_\_ ft. Times: OP \_\_\_\_\_ SI \_\_\_\_\_ OP \_\_\_\_\_ SI \_\_\_\_\_  
 Recovery: \_\_\_\_\_

Pressures: ISIP \_\_\_\_\_ IFP \_\_\_\_\_ IHP \_\_\_\_\_ BHT \_\_\_\_\_  
 FSIP \_\_\_\_\_ FFP \_\_\_\_\_ FHP \_\_\_\_\_

9. Well Completion:

Perforation record:	Formation	Depth	Treatments	Swab Test
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

10. Final Status:

Oil Well \_\_\_\_\_ Gas Well \_\_\_\_\_ D & A X SWDW \_\_\_\_\_  
 Initial Production \_\_\_\_\_  
 Date Completed 7 25 90

RECEIVED  
 STATE COOPERATION COMMISSION

AUG 13 1990

CONSERVATION DIVISION  
 Wichita, Kansas

ORIGINAL

DRILLER'S WELL LOG

DATE COMMENCED: February 5, 1990  
DATE COMPLETED: February 10, 1990

Har-Ken Oil Company  
ROUS #1  
NE SE NW  
Sec. 28, T16S, R11W  
Barton County, Ks.

0 - 110' Surface Soil, Shale, Post Rock  
110 - 550' Shale  
550 - 759' Red Bed  
759 - 795' Anhydrite  
795 - 1390' Shale  
1390 - 1931' Shale & lime  
1931 - 2634' Lime & Shale  
2634 - 2645' Lime  
2645 - 2669' Shale & Lime  
2669 - 2966' Lime  
2966 - 2971' Shale  
2971 - 2986' Lime & Shale  
2986 - 2996' Lime  
2996 - 3063' Shale  
3063 - 3082' Lime & Shale  
3082 - 3321' Lime  
3321 - 3387' Shale, Lime, Congl.  
3387 - 3455' Dolomite

ELEVATION: 1923 K.B.

Surface Pipe: Set new  
8-5/8", 20# pipe @401'  
w/195 sacks 60/40 pozmix  
2% gel 3% cc.

Production pipe: Set  
new & used 5 1/2", 15.5#  
@3451' w/150 sacks 60/40  
pozmix w/18% salt & .75%  
Halid 322 w/5# Gilsonite  
per sack in last 100 sacks,  
w/20 bbls. salt flush ahead.

A f f i d a v i t

State of Kansas, County of Barton SS:

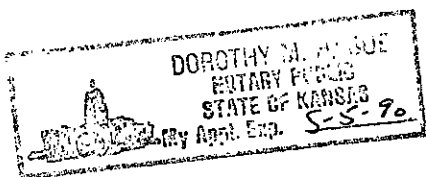
Leonard Williamson, of lawful age, does swear and state that the facts and statements contained herein are true and correct to the best of his knowledge.

*Leonard Williamson*  
Leonard Williamson

Subscribed and sworn to before me this 30 day of February 1990.

My Comm. Expires: 5-5-1990

*Dorothy M. Hague*  
Notary Public



RECEIVED  
STATE OF KANSAS  
CONSERVATION DIVISION

AUG 13 1990

CONSERVATION DIVISION  
Wichita, Kansas



Duncan, Oklahoma 73536  
A Division of Halliburton Company

FORM 1908 R-7

# WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ATTACH TO  
INVOICE & TICKET NO.

290875

DISTRICT GT Bond

DATE 2-5-70

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

THE SAME AS AN INDEPENDENT CONTRACTOR TO: Duke Dalg Co (CUSTOMER)

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

WELL NO. 1 LEASE Rous SEC. 28 TWP. 16 RANGE 11

FIELD \_\_\_\_\_ COUNTY Bartow STATE KS OWNED BY Har-Ken

## 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 _____	CASING <u>N</u>	<u>20</u>	<u>8 7/8</u>	<u>KB</u>	<u>400</u>	
PACKER: TYPE _____ SET AT _____	LINER					
TOTAL DEPTH _____ MUD WEIGHT _____	TUBING					
BORE HOLE _____	OPEN HOLE			<u>400</u>	<u>401</u>	SHOTS/FT.
INITIAL PROD: OIL _____ BPD, H <sub>2</sub> O _____ BPD, GAS _____ MCF _____	PERFORATIONS					
PRESENT PROD: OIL _____ BPD, H <sub>2</sub> O _____ BPD, GAS _____ MCF _____	PERFORATIONS					
	PERFORATIONS					

PREVIOUS TREATMENT: DATE \_\_\_\_\_ TYPE \_\_\_\_\_ MATERIALS \_\_\_\_\_

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

Set 400' 8 7/8" SW/ 195 XS 40/60 TOZ 320CC

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

- a) 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.
- b) 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:
  - 1. 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.
  - 2. Reservoir, formation, or well loss 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 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.
- 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.
- 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.
- 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.
- 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 \_\_\_\_\_ CUSTOMER

DATE 2-5-70

TIME 1630 A.M. P.M.

AUG 13 1990

CONSERVATION DIVISION  
Wichita, Kansas

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

**JOB LOG**

WELL NO. 1 LEASE Row TICKET NO. 870875  
 CUSTOMER Duke D216 PAGE NO. \_\_\_\_\_  
 JOB TYPE 678's DATE 2-5-90

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								Called out on hole
	1920							BREAK CIRC
	1932	7	0				300	Start mixing 4375 bbl's SL
	1941		4375					Release Plug
	1943	to	4375				400	Start 25.6 bbl's Disp
	1947	3	255				500	Plug Down by live circ'd 25 SKS TO PIT
	1950							CLOSE IN
	2030							Job Complete
								THANK YOU
								JAMES 74221
								SHAW 79501
								BOB D5055

STATE OF KANSAS RECEIVED  
 AUG 13 1990  
 CONSERVATION DIVISION  
 Wichita Kansas

CUSTOMER



# JOB SUMMARY

HALLIBURTON DIVISION  
HALLIBURTON LOCATION

BILLED ON TICKET NO. 810875

## WELL DATA

FIELD \_\_\_\_\_ SEC. 28 TWP. 16 RNG. 11 COUNTY BARTON STATE KS

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 \_\_\_\_\_

MISC. DATA \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		<u>20</u>	<u>675</u>	<u>K15</u>	<u>400</u>	
LINER						
TUBING						
OPEN HOLE				<u>400</u>	<u>101</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

## JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>2-5</u>	DATE <u>2-5</u>	DATE <u>2-5</u>	DATE <u>2-5</u>
TIME <u>1:00</u>	TIME <u>3:30</u>	TIME <u>19:20</u>	TIME <u>20:30</u>

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J.M. [unclear]</u>	<u>2771</u>	<u>50,200</u>
<u>GURSWIRE</u>	<u>4110</u>	
<u>B.F. [unclear]</u>	<u>4171</u>	<u>Truck</u>

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG	<u>1</u>	<u>Hogers</u>
HEAD		
PACKER		
OTHER		

## MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. API

DISPL. FLUID \_\_\_\_\_ DENISTY \_\_\_\_\_ 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. \_\_\_\_\_ IN

PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

DEPARTMENT Oil

DESCRIPTION OF JOB 20 675

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.

CUSTOMER REPRESENTATIVE Leonard Williams

HALLIBURTON OPERATOR [unclear] COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>115</u>	<u>402</u>	<u>410</u>	<u>D</u>	<u>3500</u>	<u>1.26</u>	<u>14.15</u>

## PRESSURES IN PSI

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_

BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_

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 \_\_\_\_\_ REASON \_\_\_\_\_

## SUMMARY

PRESLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_

LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_

TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL. BBL.-GAL. 256

CEMENT SLURRY: BBL.-GAL. 4375

TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

## REMARKS

STATE OIL FIELD REVENUE COMMISSION

AUG 13 1990

CONSERVATION DIVISION

Wichita, Kansas

CUSTOMER  
LEASE  
WELL NO.  
JOB TYPE  
DATE

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

ATTACH TO INVOICE & TICKET NO. 890974

DISTRICT GREAT BEND

DATE 2-10-90

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

THE SAME AS AN INDEPENDENT CONTRACTOR TO: HAC-KOIL CO. (CUSTOMER)  
AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1 LEASE RAUS SEC. 28 TWP. 16S RANGE 11W

FIELD \_\_\_\_\_ COUNTY BARBOR STATE KS. OWNED BY SAME

**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 <u>9.4</u>						
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>15 1/2</u>	<u>5 1/2</u>	<u>0</u>	<u>3459</u>	<u>T.P.</u>
LINER			<u>8 7/8</u>	<u>KB</u>	<u>401'</u>	
TUBING						
OPEN HOLE				<u>401</u>	<u>3455'</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE \_\_\_\_\_ TYPE \_\_\_\_\_ MATERIALS \_\_\_\_\_

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

INT. PROD. ESC.

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 in 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) 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.
- (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.

CONSERVATION DIVISION  
Wichita, Kansas

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

SIGNED Paul W. Miller CUSTOMER

DATE 2-10-90

TIME 12:15 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**





FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME <b>1 ROUS</b>		COUNTY <b>BARTON</b>	STATE <b>KS.</b>	CITY / OFFSHORE LOCATION	DATE <b>2-10-90</b>
CHARGE TO <b>HAR-KEN OIL CO.</b>		OWNER <b>SAME</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		CONTRACTOR <b>DUKE DRILL</b>	LOCATION <b>1 GREAT BEND</b>		CODE <b>50320</b>
CITY, STATE, ZIP		SHIPPED VIA <b>51579</b>	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT	LOCATION <b>2</b>	CODE
WELL TYPE <b>01 OIL</b>	WELL CATEGORY <b>01 DEVEL.</b>	WELL PERMIT NO.	DELIVERED TO <b>LOCATION</b>	LOCATION <b>3</b>	CODE
TYPE AND PURPOSE OF JOB <b>035 Cont. Prod. CSG.</b>		<b>B- 879283</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		1		MILEAGE	28	MI.			2.20	61.60
001-016		1		Pump CHARGE	3453	FL.			990.	990.00
030-018		1		5 1/2 SW PLUG	1	EA.			53.00	53.00
12A	825.205	1		5 1/2" REG. GUIDE SHOC	1	EA.			104.00	104.00
24A	815.19251	1		5 1/2" INSERT FLOAT VALVE	1	EA.			83.00	83.00
27	810.19311	1		AUTO FILL UP ASSM.	1	EA.			30.00	30.00
40	867.93022	1		5 1/2" S-4 CENTRALIZERS	4	EA.			44.00	176.00

THIS IS NOT AN INVOICE

RECEIVED  
STATE COMMISSION  
AUG 13 1990  
CONSERVATION DIVISION  
Wichita, Kansas

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

**B- 879283**

**178176**

WAS JOB SATISFACTORILY COMPLETED? \_\_\_\_\_

WAS OPERATION OF EQUIPMENT SATISFACTORY? \_\_\_\_\_

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? \_\_\_\_\_

X **PAUL D. WILLIS**  
CUSTOMER OR HIS AGENT (PLEASE PRINT)

X **Paul D. Willis**  
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.

**M.R. Bahard + W.E. Wilson**  
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL \_\_\_\_\_

CUSTOMER

SUB TOTAL \_\_\_\_\_  
APPLICABLE TAXES WILL BE ADDED ON INVOICE.



# JOB SUMMARY

HALLIBURTON DIVISION WICHITA  
 HALLIBURTON LOCATION GREAT BEND

BILLED ON TICKET NO. 890974

## WELL DATA

FIELD \_\_\_\_\_ SEC. 28 TWP. 11S RNG. 11W COUNTY BARTON STATE KS

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 CHEM. MUD WT. 9.1

PACKER TYPE \_\_\_\_\_ SET AT \_\_\_\_\_

BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_

MISC. DATA \_\_\_\_\_ TOTAL DEPTH 3455

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		<u>13 1/2</u>	<u>3 1/2</u>	<u>0</u>	<u>3459</u>	<u>7.7</u>
LINER	<u>SURT.</u>		<u>8 3/4</u>	<u>KB</u>	<u>401</u>	
TUBING						
OPEN HOLE				<u>401</u>	<u>3455</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

## JOB DATA

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>125007</u>	<u>1</u>	<u>Howco</u>
FLOAT SHOE <u>FULL WPT</u>	<u>1</u>	<u>"</u>
GUIDE SHOE	<u>1</u>	<u>"</u>
CENTRALIZERS	<u>4</u>	<u>"</u>
BOTTOM PLUG	<u>1</u>	<u>"</u>
TOP PLUG	<u>1</u>	<u>"</u>
HEAD <u>P.L.</u>	<u>1</u>	<u>"</u>
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>2-10</u>	DATE <u>2-10</u>	DATE <u>2-10</u>	DATE <u>2-10</u>
TIME <u>10:00</u>	TIME <u>11:00</u>	TIME <u>13:20</u>	TIME <u>14:30</u>

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>M. Bolyard 5084</u>	<u>Contd.</u>	<u>GB</u>
<u>W. Wicks 89377</u>	<u>51879</u>	<u>GB</u>

## MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. API \_\_\_\_\_

DISPL. FLUID \_\_\_\_\_ DENISTY \_\_\_\_\_ 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. \_\_\_\_\_ IN

PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

DEPARTMENT Contd.

DESCRIPTION OF JOB Contd. Prod. etc.

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.

CUSTOMER REPRESENTATIVE X Paul D. Wicks

HALLIBURTON OPERATOR M R Bolyard COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>100</u>	<u>40 Ppc 40 STANDARD</u>			<u>2% (CL. 15% SALT 70% HALAD) 322</u>	<u>1.32</u>	<u>14.17</u>
	<u>30</u>	<u>40 Ppc 60 STANDARD</u>			<u>2% (CL. 15% SALT 70% HALAD) 322</u>	<u>1.43</u>	<u>14.58</u>
					<u>5% BK GILSONITE</u>		

## PRESSURES IN PSI

## SUMMARY

## VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRES LUSH: BBL.-GAL. 20 TYPE SALT

BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. 82.01

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY: BBL.-GAL. 23.47 + 18.75 = 42.22

HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_

AVERAGE RATES IN BPM \_\_\_\_\_

TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ CEMENT LEFT IN PIPE \_\_\_\_\_

FEET 13 REASON 125007

## REMARKS

400# SALT FOR WIPERUSH

160T ON COLLARS 1-3-5-8

LEAD 34000-3446

CUSTOMER: HALLIBURTON OIL CO.  
 LEASE: 2005  
 WELL NO: 1  
 JOB TYPE: WMT  
 DATE: 2-10-90

RECEIVED  
 STATE CORPORATION COMMISSION  
 AUG 13 1990  
 CONSERVATION DIVISION  
 WICHITA, KANSAS

# HALLIBURTON SERVICES JOB LOG

WELL NO. 1 LEASE Rous TICKET NO. 890974  
 CUSTOMER HAR-KEN OIL CO. PAGE NO. 1  
 JOB TYPE CONT TRON. CSC. DATE 2-10-90

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	10:00							CALLED OUT
	11:00							ON LOCATION
	12:00							START CSC.
								BREAK CIRC.
1	0720	7	0				300	RWD START PRE-FLUSH 2000L.
	0725	8	20				300	MIX CONT. 150SKS 4 1/2" 7oz. (34.22 BBL)
	1332							FLUSH LINES
	1335	8	54.22				600 <sup>ADJ.</sup>	RELEASE PLUG START DISC. (82.01 BBL)
	1352		130.72				1000	PLUG DOWN
	1353							RELEASE + HOLD
								WASH UP TRK
								RACK UP
	1436							JOB COMP.

THANK YOU  
 M. Bolyard  
 W. W. S. Co.

STATE OF KANSAS  
 AUG 13 1990  
 CONSERVATION DIVISION  
 WICHITA, Kansas

CUSTOMER

# BULK MATERIALS DELIVERY AND TICKET CONTINUATION



FOR INVOICE AND TICKET NO. 590974

DATE <b>2-10-90</b>	CUSTOMER ORDER NO.	WELL NO. AND FARM <b>Rous #1</b>	COUNTY <b>Barton</b>	STATE <b>Ks.</b>
CHARGE TO <b>Har-Ken</b>		OWNER <b>Har-Ken</b>	CONTRACTOR <b>Duke Drlg.</b>	
MAILING ADDRESS		DELIVERED FROM <b>Great Bend, Ks.</b>	LOCATION CODE <b>50320</b>	PREPARED BY <b>S.C. Henry</b>
CITY & STATE		DELIVERED TO <b>Location</b>	TRUCK NO. <b>0977-6660</b>	RECEIVED BY <i>[Signature]</i>
No. <b>B879283</b>				

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
		L	D		QTY.	MEAS.	QTY.	MEAS.		
				150 40% Pozmix/60% Cement						
504-308	516.00261	1	B	standard Cement	90	sk			5.35	481.50
506-105	516.00286	1	B	Pozmix A	60	sk			2.79	167.40
506-121	516.00259	1	B	3 Halliburton Gel 2% allowed%						NC
509-968	516.00315	1	B	salt Blended 18%W/150	1300	lb.			.052	67.60
509-968	516.00158	1	B	salt not mixed	400	lb.			.052	20.80
508-291	70.15573	1	B	Gilsonite Blended 5%W/100	500	lb.			.35	175.00
507-775	516.00144	1	B	Halad-322 Blended .75%W/150	97	lb.			5.60	543.20

THIS IS NOT AN INVOICE

		Returned Mileage Charge	<div style="border: 1px solid black; padding: 2px;"> <b>RECEIVED</b>              STATE CORPORATION COMMISSION  <b>AUG 13 1990</b> </div>	TOTAL WEIGHT	LOADED MILES	TON MILES			
			<div style="border: 1px solid black; padding: 2px;">             CONSERVATION DIVISION              Wichita, Kansas           </div>						
500-207		1 B	SERVICE CHARGE				CU. FEET		
							184	.95	
500-306		1 B	Mileage Charge	15,455	28	216.37		.70	
				TOTAL WEIGHT	LOADED MILES	TON MILES			
No. <b>B 879283</b>		CARRY FORWARD TO INVOICE					SUB-TOTAL		1781.76

CUSTOMER

*PLUGGING*



**HALLIBURTON SERVICES**  
Duncan, Oklahoma 73536

**H** A Division of Halliburton Company

TICKET NO. **015626-6**

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME #1 Rous		COUNTY Barton	STATE Ks	CITY / OFFSHORE LOCATION	DATE 7-25-90
CHARGE TO Har-Ken Agent OK		OWNER Same	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		CONTRACTOR None	LOCATION 1 Great Bend, Ks		CODE 50320
CITY, STATE, ZIP		SHIPPED VIA Co Trk	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT		LOCATION 2
WELL TYPE 01	WELL CATEGORY 06	WELL PERMIT NO.	DELIVERED TO Location		LOCATION 3
TYPE AND PURPOSE OF JOB 115		B-909288	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		1		MILEAGE	20	mi			2.35	47 00
090 910		1		Pump Charge	2	hr			370.00	370 00
<b>THIS IS NOT AN INVOICE</b>										

RECEIVED  
STATE CORPORATION COMMISSION

AUG 13 1990

CONSERVATION DIVISION  
Wichita, Ks

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

B- 909288

2011 75

WAS JOB SATISFACTORILY COMPLETED? \_\_\_\_\_

WAS OPERATION OF EQUIPMENT SATISFACTORY? \_\_\_\_\_

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? \_\_\_\_\_

X L. D. DAVIS  
CUSTOMER OR HIS AGENT (PLEASE PRINT)

X [Signature]  
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.

Jerry Bennett  
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL

CUSTOMER

SUB TOTAL

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

# BULK MATERIALS DELIVERY AND TICKET CONTINUATION



FOR INVOICE AND  
TICKET NO. 015626

DATE <b>7-25-90</b>	CUSTOMER ORDER NO.	WELL NO. AND FARM <b>#7 ROUSE</b>	COUNTY <b>BARTON</b>	STATE <b>KS.</b>
CHARGE TO <b>HAR-KEN AGENT OK</b>		OWNER <b>HAR-KEN AGENT OK</b>	CONTRACTOR <b>No. B 909288</b>	
MAILING ADDRESS		DELIVERED FROM <b>GREAT BEND M. KS.</b>	LOCATION CODE <b>50320</b>	PREPARED BY <b>W.R. MOUSER</b>
CITY & STATE		DELIVERED TO <b>LOCATION</b>	TRUCK NO. <b>2656-6605</b>	RECEIVED BY <i>Jerry Bennett</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT		
		L	D		QTY.	MEAS.	QTY.	MEAS.				
504-316		1	B	HALLIBURTON LIGHT CEMENT	250	SK			5.64	1,410	00	
507-277	516.00259	1	B	4 HALLIBURTON GEL 2% ADDED	4	SK			13.75	55	00	
507-210	890.50071	1	B	FLOCELE BLENDED 1/4 LB W/250	63	LB			1.30	81	90	
THIS IS NOT AN INVOICE												
				Returned Mileage Charge	TOTAL WEIGHT		LOADED MILES		TON MILES			
				SERVICE CHARGE ON MATERIALS RETURNED					CU. FEET			
500-207		1	B	SERVICE CHARGE					CU. FEET	262	1.10 288 20	
500-306		1	B	Mileage Charge	23,553	TOTAL WEIGHT	20	LOADED MILES	TON MILES	235.53	.75 176 65	
No. <b>B909288</b>				CARRY FORWARD TO INVOICE					SUB-TOTAL		<b>2,011 75</b>	

CUSTOMER



WORK ORDER CONTRACT AND PRE-TREATMENT DATA

FORM 1908 R-7

A Division of Halliburton Company

ATTACH TO INVOICE & TICKET NO. 015626

DISTRICT Great Bend, Ks.

DATE 7-25-90

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

WELL NO. #1 LEASE Rous SEC. 28 TWP. 16 RANGE 11

FIELD COUNTY Barton STATE Ks OWNED BY Same

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

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

Table with columns: NEW USED, WEIGHT, SIZE, FROM, TO, MAX. ALLOW. P.S.I. Rows include CASING (U, 21, 8 5/8, GL), LINER, TUBING, OPEN HOLE, and PERFORATIONS.

PREVIOUS TREATMENT: DATE TYPE MATERIALS

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED PTA w/ 250 SKS (65-35) Pozmix 8% gel, 1/4" Floccle

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. a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. b) 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. 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. d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. 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. 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.

CONSERVATION DIVISION Wichita, Kansas

SIGNED L.D. Davi CUSTOMER DATE 7-25-90

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

TIME 1000 A.M. P.M.



# JOB SUMMARY

HALLIBURTON DIVISION  
 HALLIBURTON LOCATION

Wichita  
 Great Bend

BILLED ON TICKET NO. 015626

## WELL DATA

FIELD \_\_\_\_\_ SEC 28 TWP. 16 RNG. 11 COUNTY Barton STATE Ks

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 \_\_\_\_\_

MISC. DATA \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		20	8 7/8	GL		
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

## JOB DATA

### TOOLS AND ACCESSORIES

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

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>7-25</u>	DATE <u>7-25</u>	DATE <u>7-25</u>	DATE <u>7-25</u>
TIME <u>0630</u>	TIME <u>0845</u>	TIME <u>0915</u>	TIME <u>1030</u>

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
J Bennett	RCM	
W Wilson	51936	50320
S Guesnier	Bulk	
B Mouses	2656	50320

### 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 Cmt

DESCRIPTION OF JOB PTA

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

CUSTOMER REPRESENTATIVE **X** L.D. Devin

HALLIBURTON OPERATOR Jerry Bennett COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>250</u>	<u>Howco</u>	<u>l.t.c</u>	<u>B</u>	<u>8% gel, 1/4" Flocc</u>	<u>1.84</u>	<u>12.8</u>

## PRESSURES IN PSI

## SUMMARY

## VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_

BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_

SHUT-IN: INSTANT 350 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_

TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_

FEET \_\_\_\_\_ REASON \_\_\_\_\_

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

AUG 13 1990

CONSERVATION DIVISION  
 Wichita, Kansas

CUSTOMER: Her-Ken Agent OK  
 LEASE: Ross  
 WELL NO: #1  
 JOB TYPE: PTA  
 DATE: 7-25-90



**JOB LOG**

WELL NO. #1 LEASE Rous TICKET NO. 015626

CUSTOMER Har-Ken Agent OK PAGE NO. 1

FORM 2013 R-2

JOB TYPE PTA DATE 7-25-90

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0600							Called out
	0845							On location
	0848							Set up truck
	0918	3	0		✓		150	Start mixing cement
	0931	3	41		✓		850	Mixed 500 lbs hulls in 125 lbs
	0945	3	81.9		✓		550	Finished mixing cement
	0945						350	ISIP
	0947						350	Clear Valve - Shut in
	1005							Wash + Rock up
	1030							Job complete
								Thank You
								51936-P
								81810 Jerry Bennett
								89877 Wayne Wilson
								79501 Shawn Guesmer
								82625 Bill Mouser

RECEIVED  
STATE CONSERVATION COMMISSION  
AUG 13 1990  
CONSERVATION DIVISION  
Wichita, Kansas

CUSTOMER