

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

ORIGINAL

API NO. 15- 15-009-24520 - 000

County BARTON

NE NW SW Sec. 16 Twp. 16S Rge. 11 X E W

2310 Feet from S/N (circle one) Line of Section

4290 Feet from E/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name SAUBER Well # 1

Field Name Kraft-Prusa

Producing Formation

Elevation: Ground 1860' KB 1865'

Total Depth 3375' PBD

Amount of Surface Pipe Set and Cemented at 386' 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 cat.

Drilling Fluid Management Plan ALT 1 OK 12-2-92
(Data must be collected from the Reserve Pit)

Chloride content ppm Fluid volume bbls

Dewatering method used

Location of fluid disposal if hauled offsite:

Operator Name

Lease Name License No.

Quarter Sec. Twp. S Rng. E/W

County Docket No.

Operator: License # 9911

Name: HAR-KEN Oil Company

Address 2932 NW 122nd, Unit 15

City/State/Zip Oklahoma City, OK 73120

Purchaser:

Operator Contact Person: Stuart Kirk

Phone (405) 752-0318

Contractor: Name: L. D. Drilling, Inc.

License: 6039

Wellsite Geologist: Paul Willis

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator:

Well Name:

Comp. Date Old Total Depth

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBD
 Commingled Docket No.
 Dual Completion Docket No.
 Other (SWD or Inj?) Docket No.

7-23-92 7-30-92

Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 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 geologist well report 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.

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
M Stuart Kirk

Title Agent Date 10/16/92

Subscribed and sworn to before me this 16th day of October 1992

Notary Public: Paul D. Willis
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 Geologist Report Received
DISTRIBUTION RECEIVED
STATE CORPORATION COMMISSION
KCC
KGS
NGPA
Other (Specify)
OCT 23 1992

Form ACO-1
CONSERVATION DIVISION
Wichita, Kansas
10-25-92

Operator Name HAR-KEN Oil Company Lease Name SAUBER Well # 1

Sec. 16 Twp. 16 Rge. 11 East West County BARTON

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	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	711	+1154
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Topeka	740	
List All E.Logs Run: Dual Induction Laterolog		Heebner	2608	- 743
Compensated Density-Neutron		Toronto	2902	-1037
CORAL		Douglas	2923	-1058
		Brown Lime	2938	-1073
		Lansing	2997	-1132
		Arbuckle	3016	-1151
			3314	-1449

CASING RECORD <input checked="" type="checkbox"/> New <input 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"	23#	386'	40/60 Poz	175	2% Ge1, 3% CC

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth

TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	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 Perf. Dually Comp. Cemented Other (Specify) _____

Production Interval _____

ORIGINAL

HAR-KEN OIL COMPANY
#1 Sauber
NE NW SW, sec 16, T16S-R11W
Barton County, KS
API No. 15-009-24520

DRILL STEM TESTS

DST #1 3033-3119 (Lansing)

30"-60"-15"-30"

Recovered 20' Gassy Mud (15% gas, 85% mud)

60' SOCGM (3% oil, 20% gas, 77% mud)

IF 36#-40# FF 64#-60#

ISI 286# FSI 158#

IH 1538# FH 1512#

First open - Strong blow, off btm bucket 13".

Second open - Fair blow, 4" in bucket

DST #2 3338-3358 (Arbuckle)

30"-60"-30"-60"

Recovered 20' clean gassy oil (37° @ 60°)

140' VSOCWCM (2% oil, 20% water, 78% mud)

310' water (Chlorides 14,000 ppm)

IF 70#-120# FF 158#-207#

ISI 1133# FSI 1122#

IH 1670# FH 1634#

First open - strong blow, off bottom bucket 11".

Second open - strong blow, off bottom bucket 16".

DST #3 3320-3340 (Arbuckle - straddle)

60"-90"-60"-60"

Recovered 5' free oil

25' SOCM

IF 24#-28# FF 32#-32#

ISI 1084# FSI 976#

IH 1632# FH 1612#

RECEIVED
STATE CORPORATION COMMISSION
OCT 23 1992
CONSERVATION DIVISION
WICHITA, KANSAS

ORIGINAL

DRILLER'S WELL LOG

COMMENCED: 7-23-92
COMPLETED: 7-30-92

HAR-KEN Oil Company
SAUBER #1
NE NW SW Sec. 16-T16S-R11W
Barton County, Kansas

0 - 387 Rock & Shale
387 - 1335 Shale
1335 - 3195 Lime
3195 - 3306 Lime & Shale
3306 - 3375 Lime & Cong.

ELEVATION: 1860 GR 1865 KB

FORMATION DATA:

Anhy.	716	(+1149)
Topeka	2608	(-743)
Heebner	2902	(-1037)
Toronto	2923	(-1058)
Douglas	2938	(-1073)
Brown Lime	2998	(-1133)
Lansing	3016	(-1151)
Arbuckle	3318	(-1453)
RTD	3375	(-1510)

SURFACE CASING:

8 5/8" set @ 386 W/175 sx. 40/60
Pozmix, 2% Gel, 3% CC

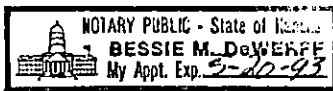
A F F I D A V I T

STATE OF KANSAS)
COUNTY OF BARTON) ss

L. D. DAVIS, of lawful age, does swear and state that the facts and statements herein are true and correct to the best of his knowledge.

L. D. Davis
L. D. DAVIS

Subscribed and sworn to before me this 5th day of August, 1992



Bessie M. DeWerff
Notary Public: Bessie M. DeWerff

My Commission expires: 5-20-93

COPY



WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ORIGINAL

FORM 1908 R-7

A Division of Halliburton Company

ATTACH TO INVOICE & TICKET NO. 245832

DISTRICT _____

DATE 7-23-92

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

THE SAME AS AN INDEPENDENT CONTRACTOR TO: H. K. O. I. Co. (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. #1 LEASE Seabuck SEC. 16 TWP. 16 RANGE 11

FIELD _____ COUNTY Barton STATE KS OWNED BY S. M. C.

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

Table with columns: FORMATION NAME, TYPE, THICKNESS, FROM, TO, PACKER, SET AT, TOTAL DEPTH, MUD WEIGHT, BORE HOLE, INITIAL PROD., PRESENT PROD., and a detailed well log table with columns: NEW USED, WEIGHT, SIZE, FROM, TO, MAX. ALLOW. P.S.I., and PERFORATIONS.

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

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

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: [Signature] DATE: 7-23-92

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

RECEIVED DIVISION OF CONSERVATION DIVISION OCT 25 1992



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION Great Bend

BILLED ON TICKET NO. 245822

ORIGINAL WELL DATA
FIELD 16 SEC. 16 TWP. 16 RNG. 16 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	4	23.2	8 7/8	KB	386	
LINER						
TUBING						
OPEN HOLE			12 1/4	306	389	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 <u>Wood 8 7/8</u>	<u>1</u>	<u>Hercules</u>
HEAD <u>1 1/2</u>	<u>1</u>	<u>"</u>
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>7-25-92</u>	DATE <u>7-25-92</u>	DATE <u>7-25-92</u>	DATE <u>00:30</u>
TIME <u>18:00</u>	TIME <u>19:00</u>	TIME <u>23:00</u>	TIME <u>7:24</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>C. Byrd</u>	<u>85050</u>	<u>51771</u>
<u>S. B. ...</u>	<u>89071</u>	<u>Cumb</u>
<u>M.L.</u>	<u>51252</u>	<u>Thys</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API
 DISPL. FLUID _____ DENSITY _____ LB/GAL. API
 PROP. TYPE _____ SIZE _____ LB.
 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 _____

DEPARTMENT Cement
 DESCRIPTION OF JOB 3 1/2" surface pipe
 JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.
 CUSTOMER REPRESENTATIVE X
 HALLIBURTON OPERATOR How Byrd COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>175</u>	<u>40/60</u>		<u>B</u>	<u>32CC 27.5% L.L.</u>	<u>127</u>	<u>11.30</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

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 15 REASON Keyhole

PRESLUSH: BBL.-GAL. _____ TYPE _____
 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPL. BBL.-GAL. 6.8
 CEMENT SLURRY: BBL.-GAL. 27.6
 TOTAL VOLUME: BBL.-GAL. _____
 REMARKS _____

RECEIVED
 STATE CORPORATION COMMISSION
 OCT 25 1992
 WICHITA, KANSAS

JOB LOG

ORIGINAL

WELL NO. 1 LEASE Scriber TICKET NO. 215362
 CUSTOMER H. K. W. PAGE NO. 1
 JOB TYPE Surface Pipe DATE 7-23-92

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	17:20							DN Location
								Casing on Bottom
	2:40							Break Circulation
	23:45							200 Start Mixing
	23:50		39.6					200 Finish Mixing
	23:53							Release Plug
	23:54							100 Start Displacement
	23:57		23.8					200 Plug Down
12	24:00							Cement in Cellar
								Shut In
								Wash up
								Job Complete
								Thanks
								blew, worse

CUSTOMER

RECEIVED
 STATE CONSERVATION COMMISSION

OCT 23 1992

CONSERVATION DIVISION
 Wichita, Kansas



HALLIBURTON SERVICES
Duncan, Oklahoma 73229

FORM 1908 R-7

A Division of Halliburton Company

WORK ORDER CONTRACT
AND PRE-TREATMENT DATA

ORIGINAL
ATTACH TO
INVOICE & TICKET NO. 263828

DISTRICT Great Bend DATE 7-30-92

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

WELL NO. 1 LEASE Squbcr SEC. 16 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	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 ₂ O _____ BPD, GAS _____ MCF							
PRESENT PROD: OIL _____ BPD, H ₂ O _____ BPD, GAS _____ MCF							
CASING				<u>3 7/8</u>	<u>0</u>	<u>385</u>	
LINER							
TUBING				<u>4 1/2</u>	<u>0</u>	<u>3325</u>	
OPEN HOLE				<u>7 7/8</u>	<u>KB</u>	<u>3375</u>	SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED _____
PTA with 155 SKS 40/60 P02 67.6GL & 1/2 FLOCLE

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. 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.
- 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. The term "well owner" shall include working and royalty interest owners.
 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.

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.
- 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. 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.
- 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 _____ CUSTOMER
DATE 7-29-92
TIME 20 00 A.M. P.M.

RECEIVED
CONSERVATION COMMISSION
OCT 23 1992
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 SUMMARY

HALLIBURTON DIVISION Eastern Area
HALLIBURTON LOCATION Great Bend

BILLED ON TICKET NO. 263828

CUSTOMER Hartford O.I. Co
LEASE Sandbar
WELL NO. 1
JOB TYPE PTA
DATE 7-27-72

ORIGINAL

WELL DATA

FIELD _____ SEC. 11 TWP. 16S RNG. 11 W COUNTY Barton STATE KS

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING				<u>8 7/8</u>	<u>0</u>	<u>585</u>	
LINER							
TUBING				<u>4 1/2 X</u>	<u>0</u>	<u>5325</u>	
OPEN HOLE				<u>7 1/8</u>	<u>385</u>	<u>5375</u>	SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

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 _____

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
<u>7-29</u>	<u>7-29</u>	<u>7-29</u>	<u>7-30-72</u>
DATE	DATE	DATE	DATE
TIME <u>1830</u>	TIME <u>2000</u>	TIME <u>2100</u>	TIME <u>0300</u>

TOOLS AND ACCESSORIES

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

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>G Byerly</u>	<u>51797</u>	<u>GT</u>
<u>w Wilson</u>	<u>6umb</u>	<u>Bend</u>
	<u>3703</u>	<u>"</u>
	<u>Bulk</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. _____ IN

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT Cement

DESCRIPTION OF JOB PTA

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X

HALLIBURTON OPERATOR Alan Byerly

COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK-SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>155</u>	<u>40/60</u>	<u>Poz</u>	<u>B</u>	<u>67 Gal. K₂O Mucic</u>	<u>1.55</u>	<u>15.5</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: 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. 42.2

ORDERED _____ AVAILABLE _____ USED _____ TOTAL VOLUME: BBL.-GAL. _____

AVERAGE RATES IN BPM _____ REMARKS _____

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

FEET _____ REASON _____

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Wichita, Kansas

FORM 2013 R-2

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2000							On Location
	2115		54					Mix 1st Plug 205ks
	2130		458					SPOT AT 3325'
	0036		54					Mix 2nd Plug 205ks
	0035		8.8					SPOT AT 720'
	0105		215					Mix 3rd Plug 90skS
	0105		10					SPOT AT 435'
	0155		27					Plug TOP 40' 40skS
	0200		40					Plug Rathole - 15skS
	0210							Wash up
	0300							Job Complete
								Thanks
								Glen, Wayne

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TOPEKA, KANSAS

CUSTOMER