

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- 15-009-24519-0000

County BARTON

SW NE NW Sec. 7 Twp. 16S Rge. 11 X E
W

4290 Feet from S/N (circle one) Line of Section

3530 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 SCHREMMER Well # 1

Field Name Kraft-Prusa

Producing Formation _____

Elevation: Ground 1870 KB 1875

Total Depth 3375' PBTB _____

Amount of Surface Pipe Set and Cemented at 380 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 cmt.

Drilling Fluid Management Plan ALTI OJA 10-7-92
(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 122, 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 _____ SIOW _____ 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 _____ PBTB

_____ Casingled _____ Docket No. _____

_____ Dual Completion _____ Docket No. _____

_____ Other (SWD or Inj?) _____ Docket No. _____

7-31-92 8-06-92 _____

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
RECEIVED
DISTRIBUTION COMMISSION
STATE CORPORATION Rep 10-20-92
KCC _____ Plug _____ NSPA _____
XGS _____ Other _____
OCT 26 1992
(Specify)
CONSERVATION DIVISION
Wichita, Kansas

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

Sec. 7 Twp. 16S 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 Yes No
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit copy.)
 List All E.Logs Run: Dual Induction Laterolog
 Spectral Density Neutron
 CORAL

Log Formation (Top), Depth and Datum Sample

| Name | Top | Datum |
|------------|------|-------|
| Heebner | 2915 | -1040 |
| Brown Lime | 3014 | -1139 |
| Lansing | 3021 | -1146 |
| CGL | 3302 | -1427 |
| Arbuckle | 3322 | -1447 |

DST #1 3284-3312 (Cgl) DST #2 3335-45 (Arbuckle)
 45-60-30-60 6" blow 15-30-15-30, strg blo off
 Rec 50' cln gssy oil + btm 3", 2d op str blo off
 20" HG&OCM btm 5", Rec 800' water
 IH 1694 FH 1672 IH 1672, FH 1651
 IF 82-106 FF 106-110 IF 108-227 FF286-365
 ISI 118 FSI 116 ISI 1137 FSI 1135

| 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# | 380' | 60/40 Poz | 170 | 2% Gel, 3% QC |

| 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 <input type="checkbox"/> Yes <input type="checkbox"/> No |
|--|-----------|---|-------------|---------------|--|
| Date of First, Resumed Production, SMD or Inj. | | Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> 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. Commingled Other (Specify) _____

Production Interval _____

ORIGINAL

DRILLER'S WELL LOG

COMMENCED: 7-31-92
COMPLETED: 8-06-92

0 - 330 Rock
330 - 750 Red Bed
750 - 2655 Lime & Shale
2655 - 2855 Lime
2855 - 3270 Lime & Shale
3270 - 3312 Lime & Cong.
3312 - 3375 Lime
3375 RTD

HAR-KEN Oil Company
SCHREMMER #1
SW NE NW Sec. 7-16S-11W
Barton County, Kansas

ELEVATION: 1870' GL 1875' KB

FORMATION DATA: (sample)

| | | |
|------------|--------|---------|
| Anhydrite | 738-63 | (+1138) |
| Heebner | 2916 | (-1041) |
| Brown Lime | 3005 | (-1130) |
| Lansing | 3022 | (-1147) |
| Base K/C | 3234 | (-1359) |
| T/Congl | 3300 | (-1425) |
| Arbuckle | 3322 | (-1447) |
| RTD | 3375 | (-1500) |

SURFACE CASING:

8 5/8" set @ 380' W/170 sx.
60/40 Pozmix, 2% Gel, 3% CC

A F F I D A V I T

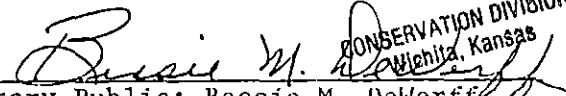
STATE OF KANSAS) ss
COUNTY OF BARTON)

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

Subscribed and sworn to before me this 11th day of August, 1992.

My Commission expires: 5-20-93


Notary Public: Bessie M. DeWerry

RECEIVED
STATE CORPORATION COMMISSION

OCT 26 1992

CONSERVATION DIVISION
Wichita, Kansas

DISTRICT ProH, Ks

DATE 7-31-92

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

WELL NO. 1 LEASE Schrammer SEC. 7 TWP. 16 RANGE 11W
FIELD _____ COUNTY Barton STATE Ks OWNED BY Some

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 _____

| | NEW USED | WEIGHT | SIZE | FROM | TO | MAX. ALLOW. P.S.I. |
|--------------|----------|--------|--------|------|-----|--------------------|
| CASING | 4 | 23 | 8 5/8 | KB | 381 | |
| LINER | | | | | | |
| TUBING | | | | | | |
| OPEN HOLE | | | 12 1/4 | 381 | 382 | SHOTS/FT. |
| PERFORATIONS | | | | | | |
| PERFORATIONS | | | | | | |
| PERFORATIONS | | | | | | |

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

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

Set 8 5/8 @ 381' w/ 170 sks (40-60) Pozmix 2% gel, 3% ssc

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 which the 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, the same shall be 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 _____ DATE 7-31-92 TIME 2300 A.M. P.M.
CUSTOMER _____
STATE COMMUNICATIONS DIVISION
Wichita, Kansas
10-26-1992

HALLIBURTON SERVICES
JOB LOG

WELL NO. 1 LEASE Scheemmer TICKET NO. 245834
 CUSTOMER Harken Oil Co. PAGE NO. 1
 JOB TYPE 5 1/2 Surface DATE 7-31-92

FORM 2013 R-2

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
|-----------|------|------------|--------------------|-------|---|----------------|-----------|--|
| | | | | T | C | TUBING | CASING | |
| | 2100 | | | | | ORIGINAL | | Called out |
| | 2245 | | | | | | | On location |
| | 2250 | | | | | | | Set up truck |
| | 0100 | | | | | | | Break circulation |
| | 0115 | 7 | 1 | | ✓ | | 350 | Start mixing cement |
| | 0122 | 7 | 38.5 | | ✓ | | 200 | Finish mixing cement |
| | 0123 | — | | | | | — | Release Plug |
| | 0125 | 1 | 1 | | ✓ | | 100 | Start displacement |
| | 0130 | 7 | 23.6 | | ✓ | | 250 No | Plug down @ 366' By Wireline |
| | 0129 | | | | | | OK | Good cement returns |
| | 0135 | | | | | | | Wash + Rack up |
| | 0200 | | | | | | | Job complete |
| | | | | | | | | Thank You |
| | | | | | | | | 51936 |
| | | | | | | | | 81870 Terry Bennett |
| | | | | | | | | 08500 Kevin Bradley |

RECEIVED
STATE CORPORATION COMMISSION

OCT 26 1992

CONSERVATION DIVISION
Wichita, Kansas

CUSTOMER



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

Eastern Area 1
Great Bend, Ks

BILLED ON TICKET NO. 245

ORIGINAL

WELL DATA

FIELD _____ SEC. 7 TWP. 16 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 _____ 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 | 8 7/8 | KB | 381 | |
| LINER | | | | | | |
| TUBING | | | | | | |
| OPEN HOLE | | | 12 1/4 | 381 | 382 | 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 | Wood | Howco |
| HEAD | Memfold | Howco |
| PACKER | | |
| OTHER | | |

| CALLED OUT | ON LOCATION | JOB STARTED | JOB COMPLETED |
|------------|-------------|-------------|---------------|
| DATE 7-31 | DATE 7-31 | DATE 7-31 | DATE 8-1 |
| TIME 2100 | TIME 2245 | TIME 0100 | TIME 0200 |

PERSONNEL AND SERVICE UNITS

| NAME | UNIT NO. & TYPE | LOCATION |
|-----------|-----------------|----------|
| J Bennett | REM-ABC | |
| K Gordley | 51936 | 25520 |
| Mil | 51252 | 25525 |

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. _____
 PERFPAC BALLS TYPE _____ QTY. _____
 OTHER _____
 OTHER _____

DEPARTMENT 505
 DESCRIPTION OF JOB Set 8 7/8 Surface
 JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.
 CUSTOMER REPRESENTATIVE X [Signature]

HALLIBURTON OPERATOR Terry Bennett COPIES REQUESTED _____

CEMENT DATA

| STAGE | NUMBER OF SACKS | CEMENT | BRAND | BULK SACKED | ADDITIVES | YIELD CU.FT./SK. | MIXED LBS./GAL. |
|-------|-----------------|--------|--------|-------------|------------|------------------|-----------------|
| | 170 | 40-60 | Pozmix | B | 2%gel 3%cc | 1.27 | 14.3 |

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 15 REASON Request

SUMMARY

PRESLUSH: BBL.-GAL. _____ TYPE _____
 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPL. 23.6 BBL.-GAL.
 CEMENT SLURRY: 38.5 BBL.-GAL.
 TOTAL VOLUME: BBL.-GAL. _____

REMARKS

RECEIVED
 STATE CORPORATION COMMISSION

OCT 26 1992

CONSERVATION DIVISION
 Wichita, Kansas

CUSTOMER: Herken Oil Company
 LEASE: Schrammer
 WELL NO. #1
 JOB TYPE: 8 7/8 Surface
 DATE: 7-31-92



WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ORIGINAL

FORM 1908 R-7

A Division of Halliburton Company

ATTACH TO INVOICE & TICKET NO. 263832

DISTRICT Great Bend

DATE 8-6-92

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

THE SAME AS AN INDEPENDENT CONTRACTOR TO: Harker O.I. Co (CUSTOMER)

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

WELL NO. 1 LEASE Schrenker SEC. 7 TWP. 16s RANGE 11w

FIELD COUNTY Barton STATE KS OWNED BY Same

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

Table with columns: FORMATION NAME, TYPE, NEW USED, WEIGHT, SIZE, FROM, TO, MAX. ALLOW. P.S.I. Rows include CASING, LINER, TUBING, OPEN HOLE, and PERFORATIONS.

PREVIOUS TREATMENT: DATE TYPE MATERIALS

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

PTA with 175 sks 40/60 P02 67 gal 1/4" fluoride 25 sks at 3280, 25 sks at 750, 100 sks at 480, 10 sks at 70, 15 sks Rthlc

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.
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] CUSTOMER

DATE 8-6-92

TIME 12:45 A.M. P.M.

RECEIVED STATE CONSERVATION COMMISSION OCT 26 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
HALLIBURTON LOCATION

Eastern Area II
Great Bend

BILLED ON TICKET NO. 263832

WELL DATA

FIELD _____ SEC. 7 TWP. 16S 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 _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH _____

| | NEW USED | WEIGHT | SIZE | FROM | TO | MAXIMUM PSI ALLOWABLE |
|--------------|----------|--------|-------|------|------|-----------------------|
| CASING | | | 8 7/8 | 0 | 381 | |
| LINER | | | | | | |
| TUBING | | | 4 1/2 | 0 | 3290 | |
| OPEN HOLE | | | | 381 | 3375 | 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 |
|------------|-------------|-------------|---------------|
| 8-6 | 8-6-72 | 8-6-72 | 8-6-72 |
| DATE | DATE | DATE | DATE |
| TIME 10 45 | TIME 12 45 | TIME 13 30 | TIME 18 00 |

PERSONNEL AND SERVICE UNITS

| NAME | UNIT NO. & TYPE | LOCATION |
|----------------|-----------------|----------|
| G Byerly 85826 | 50797 | BT |
| W Wilson 84377 | 6065 mm | Bend |
| Lenny | 51252 | HAYS |

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL-⁰API

DISPL. FLUID _____ DENISTY _____ LB/GAL-⁰API

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 Cement

DESCRIPTION OF JOB PTA

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X BEG WILSON

HALLIBURTON OPERATOR Alan Byerly COPIES REQUESTED _____

CEMENT DATA

| STAGE | NUMBER OF SACKS | CEMENT | BRAND | BULK SACKED | ADDITIVES | YIELD CU.FT./SK. | MIXED LBS./GAL. |
|-------|-----------------|--------|-------|-------------|-----------|------------------|-----------------|
| | 175 | 40/60 | 902 | B | 67.6L | 153 | 13.20 |

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. _____ CEMENT SLURRY: BBL.-GAL. 47.7

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

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET _____ REASON _____

REMARKS

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OCT 26 1992

CONSERVATION DIVISION
Wichita, Kansas

CUSTOMER
HARRIS OIL CO
LEASE
Schramm
WELL NO.
JOB TYPE
PTA
DATE

HAI SUTTON SERVICES
JOB LOG

WELL NO. 1 LEASE Schremmer TICKET NO. 263832
 CUSTOMER Harker PAGE NO. 1
 JOB TYPE PT A ORIGINAL DATE 8-6-92

FORM 013 R-2

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
|-----------|-------|------------|--------------------|-------|---|----------------|--------|--|
| | | | | T | C | TUBING | CASING | |
| | 12 45 | | | | | | | On Location |
| | 13 30 | | 6.8 | | | | | Mix 1st Plug 25 sks |
| | 13 45 | | 44.0 | | | | | Spot at 3280' |
| | 14 00 | | 6.8 | | | | | Mix 2nd Plug 25 sks |
| | 16 05 | | 8.8 | | | | | Spot at 750' |
| | 16 10 | | 27.2 | | | | | Mix 3rd Plug 100 sks |
| | 16 20 | | 1.0 | | | | | Spot at 480' |
| | | | 2.7 | | | | | Plug Top 40' 10 sks |
| | 17 30 | | 4.1 | | | | | Plug Rathole 15 sks |
| | 17 35 | | | | | | | Wash up |
| | 18 00 | | | | | | | Job Complete |
| | | | | | | | | Thanks |
| | | | | | | | | Gler, Wayne |

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CUSTOMER