

SIDE ONE

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

API NO. 15- 051-24,635-00-00

County Ellis

C SW NW Sec. 1 Twp. 12S Rge. 16 X East West

3300 Ft. North from Southeast Corner of Section

4620 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

Lease Name NATIONAL LOAN CO Well # 3-1

Field Name Blue Hill NW

Producing Formation Lansing

Elevation: Ground 1815 KB 1820

Total Depth 3450' PBTD 3399'

Operator: License # 5418

Name: ALLEN DRILLING COMPANY

Address 7950 E. Prentice, Ste 100

City/State/Zip Englewood, CO 80111

Purchaser: Koch Oil Company

Operator Contact Person: Doug Hoisington

Phone (303) 796-7350

Contractor: Name: ALLEN DRILLING COMPANY

License: 5418

Wellsite Geologist: Tim Pierce

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  Temp. Abd.

Gas  Inj  Delayed Comp.

Dry  Other (Core, Water Supply, etc.)

If OAWO: old well info as follows:

Operator: N/A

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

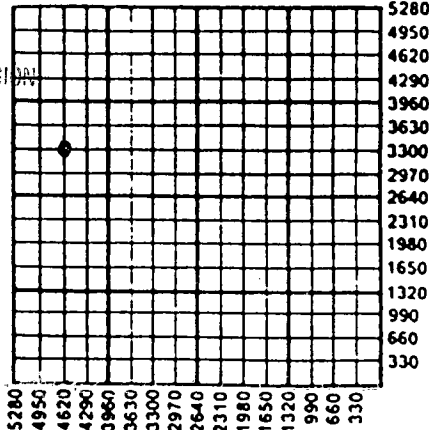
Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Drilling Method:

Mud Rotary  Air Rotary  Cable

2/27/90 3/04/90 3/25/90

Spud Date Date Reached TD Completion Date



Amount of Surface Pipe Set and Cemented at 614 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.

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, 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: \_\_\_\_\_ Date: 3/27/90

Title: Operator, Production

Subscribed and sworn to before me this 27th day of March, 19 90.

Notary Public: Cynthia L. Woolery

Cynthia L. Woolery

Date Commission Expires 1-17-94

K.C.C. OFFICE USE ONLY

- Letter of Confidentiality Attached
- Wireline Log Received
- Drillers Timelog Received

Distribution

- KCC  SWD/Rep  NGPA
- KGS  Plug  Other (Specify)

SIDE TWO

Operator Name ALLEN DRILLING COMPANY Lease Name NATIONAL LOAN CO. Well # 3-1  
 Sec. 1 Twp. 12S Rge. 16  East  West  
 County Ellis

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.)

Formation Description  
 Log  Sample  
 Name Top Bottom  
 "SEE ATTACHED"

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" NEW	23#	614'	60/40 Poz	300	2%gel, 3%cc
Production	7-7/8"	4-1/2" NEW	10.5#	3449'	Howco Lite 60/40 Poz	50 75	2%gel, 18%salt 75%CFR3,5#gil/sx

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)		Depth
		Amount	Kind	
3	3313.5 - 3317.5	500 gal.	15% NE HCL	---
3	3246 - 3250	180 gal.	15% NE HCL	---
3	2085 - 2089	500 gal.	15% NE HCL	---
3	3066 - 3072	500 gal.	15% NE HCL	---
3	3047 - 3049	500 gal.	15% NE HCL	---

TUBING RECORD Size 2-3/8" Set At 3387' Packer At --- Liner Run  Yes  No

Date of First Production 3/25/90 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)  
 Estimated Production Per 24 Hours Oil 20 Bbls. Gas TSTM Mcf Water 20 Bbls. Gas-Oil Ratio N/A

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)  
 METHOD OF COMPLETION  Open Hole  Perforation  Dually Completed  Commingled  
 Other (Specify) \_\_\_\_\_  
 Production Interval 3047' - 3317.5'



DSTS

15-051-24635-00-00

ORIGINAL

DST	Interval	IFP/Time	ISIP/Time	FFP/Time	FISIP/Time	IP	Recovery
1	3165 - 3265 LAN H-K	36-41 30	510 45	52-57 45	562 60	1543 - 1533	90' GIP, 90' HEAVY OIL & GAS CUT MUD (31% OIL, 7% GAS, 62% MUD) WK Blow INCR. To 3 1/2 in.
2	3283 - 3330	20-20 15	208 15	26-26 15	229 15	1617 - 1596	5' Slt Oil Cut Mud WK Blow DEAD IN 12 Min FLUSHED TOOL 2nd FLOW - No HELP
3							
4							
5							
6							
7							
8							

Sample Description

MARKERS	SAMPLE	E. LOG.	DATUM
ANH	950	978	+842
B/ANH	1015	1014	+806
TOPEKA	2748	2744	-924
K. HILL SH.	2858	2854	-1034
Q HILL SH.	2916	2914	-1094
HEEBNER SH.	2992	2991	-1171
TORONTO LS.	3013	3013	-1193
LANSING	3043	3041	-1221
G ZONE $\phi$	3136	3131	-1311
DRUM	3180	3174	-1354
STARK SH.	3243	3235	-1415
BASE K.C.	3286	3283	-1463
MARMATON	3296	3294	-1474
CONG.			
SIMPSON SH.	3396	3394	-1574
SIMPSON SD.	3411	3407	-1587
ARBUCKLE	3416	3415	-1595
RTD	3450	3447	-1627
LTD	DIL 3447	CD-DSN 3446	

RECEIVED  
STATE COMMISSION  
3-30-1990  
COMMISSION  
Wichita, Kansas

15-051-24635-00-00

HALLIBURTON SERVICES  
Duncan, Oklahoma 73022

WORK ORDER CONTRACT  
AND PRE-TREATMENT DATA

ORIGINAL

FORM 1908 R-7

A Division of Halliburton Company

ATTACH TO INVOICE & TICKET NO. 908376

DISTRICT Hays Ks

DATE 2-27-90

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

THE SAME AS AN INDEPENDENT CONTRACTOR TO: Allen Dale Co (CUSTOMER)  
AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 3-1 LEASE National Lease Co SEC 1 TWP. 12 RANGE 16

FIELD Blue Hill COUNTY Ellis STATE Kansas 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, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF  
PRESENT PROD: OIL \_\_\_\_\_ BPD, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	<u>N</u>	<u>20</u>	<u>5 1/2</u>	<u>KB</u>	<u>L14</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

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

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

Cont. @ 500 Sur. Acc. Log

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
    - 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.

3-30-1990  
MAR 30 1990

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 2-27-90

TIME 19:30 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

15-051-24635-00-00

HALLIBURTON SERVICES  
JOB LOG

WELL NO. 3-1 LEASE National Lease TICKET NO. 918374  
 CUSTOMER Allen Dils Co PAGE NO. 1  
 JOB TYPE Cmt 8 5/8 Surface Csg DATE 2-27-90

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	15:30							Called Out
	19:00							On loc - Rig Circ
	19:25							Spot & Set up Equip - Plan Job
	20:25							Start 8 5/8 x 23 7/8 Csg in Hole
								Csg in Hole
								Hack up PC & Manifold
	20:30							Start <del>Water</del> Circ w/ Rig Pump
								Hack up to P.T.
	20:44							Start Mix Cmt
								300 sk 60-40 Pot / 2" Gal. 3" CC
	20:58							Finish Mix Cmt
								Release Plug
	21:00							Start Displ
	21:01							Stop Displ - Plug Down
								Cmt Did Circ
								Job Complete
								Thank you Johnny Rong

RECEIVED  
STATE COMMISSION  
3-30-1990  
DIVISION  
Wichita, Kansas

J Becker 43000  
M Childers 27383  
R B... 57822



# JOB SUMMARY

DIVISION \_\_\_\_\_  
HALLIBURTON LOCATION Hays, Ks

BILLED ON TICKET NO. 905376

## WELL DATA

FIELD \_\_\_\_\_ SEC 1 TWP 12 RNG 16 COUNTY Ellis STATE Kansas

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 \_\_\_\_\_

## JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>2-27-90</u>	DATE <u>2-27-90</u>	DATE <u>2-27-90</u>	DATE _____
TIME <u>15:30</u>	TIME <u>19:00</u>	TIME <u>20:30</u>	TIME _____

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J Backer</u>	<u>6000</u>	<u>Hays, Ks</u>
<u>M Childers</u>	<u>51071</u>	<u>Hays, Ks</u>
<u>R Babin</u>	<u>B.T.</u>	
	<u>0530</u>	

### TOOLS AND ACCESSORIES

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

### 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 Cementing

DESCRIPTION OF JOB Run in pipe Surfactant

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.

CUSTOMER REPRESENTATIVE X [Signature]

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

## CEMENT DATA

STAGE	NUMBER OF BAGS	CEMENT	BRAND	BULK SACKED	ADDITIVES RECEIVED	YIELD CU.FT/SK	MIXED LBS./GAL
	<u>300</u>	<u>60-10R</u>		<u>R</u>	<u>276.1-3700</u>	<u>1.27</u>	<u>14.5</u>
					<u>3-30-1990</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 20 REASON Request

### SUMMARY

PRELUSH: BBL-GAL \_\_\_\_\_ TYPE \_\_\_\_\_

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

TREATMENT: BBL-GAL \_\_\_\_\_ DISPL: BBL-GAL 38.25

CEMENT SLURRY: BBL-GAL 67.9

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

### REMARKS

See Job Log

Thank you Mark & Ron

Schul

CUSTOMER: Allco Oil Co.  
LEASE: McPherson Lease No. 3-1  
WELL NO. 3-1  
JOB TYPE: Cementing  
DATE: 2-27-90



15-051-24635-00-00



AND  
TICKET CONTINUATION

FOR INVOICE AND  
TICKET NO. 908376

DATE <b>2-27-90</b>	CUSTOMER ORDER NO.	WELL NO. AND FARM <b>National Loan Co.3-1</b>	COUNTY <b>Ellis</b>	STATE <b>Kansas</b>
CHARGE TO <b>Allen Drilling Col.</b>		OWNER <b>Same</b>	CONTRACTOR <b>Co. Tools</b>	No. <b>B 848079</b>
MAILING ADDRESS		DELIVERED FROM <b>Hays, Ks</b>	LOCATION CODE <b>50325</b>	PREPARED BY <b>Kuhn</b>
CITY & STATE		DELIVERED TO <b>N/E Hays, Ks</b>	TRUCK NO. <b>0530</b>	RECEIVED BY <i>John E Becker</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
		L	D		QTY.	MEAS.	QTY.	MEAS.			
				<b>300 Cu. Ft. Pozmix Cement 2% Gel</b>							
<b>504-308</b>	<b>516.00261</b>	<b>1</b>	<b>B</b>	<b>Standard Cement</b>	<b>180</b>				<b>5.45</b>	<b>981</b>	<b>00</b>
<b>506-105</b>	<b>516.00286</b>	<b>1</b>	<b>B</b>	<b>Pozmix 'A'</b>	<b>120</b>				<b>2.88</b>	<b>345</b>	<b>60</b>
<b>506-121</b>	<b>516.00259</b>	<b>1</b>	<b>B</b>	<b>5ak Halliburton Gel 02%</b>							<b>n/c</b>
<b>509-406</b>	<b>890.50812</b>	<b>1</b>	<b>B</b>	<b>Calcium Chloride Blended</b>	<b>8</b>				<b>26.025</b>	<b>210</b>	<b>00</b>
<b>THIS IS NOT AN INVOICE</b>											
				Returned Mileage Charge	TOTAL WEIGHT		LOADED MILES	TON MILES			
					<b>30 1900</b>						
				SERVICE CHARGE ON MATERIALS RETURNED	Wichita, Kansas		CU. FEET				
<b>500-207</b>		<b>1</b>	<b>B</b>	SERVICE CHARGE			<b>316</b>	<b>.95</b>		<b>300</b>	<b>20</b>
<b>500-306</b>		<b>1</b>	<b>B</b>	Mileage Charge	<b>26,940</b>	<b>25</b>	<b>336.750</b>	<b>.70</b>		<b>235</b>	<b>75</b>
No. <b>B 848079</b>							CARRY FORWARD TO INVOICE	SUB-TOTAL	<b>2,172 53</b>		

CUSTOMER



DISTRICT: Great Bend, Ks.

DATE: 3-5-90

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

WELL NO. 3-1 LEASE National Loan Co. SEC. 1 TWP. 12S RANGE 16W

FIELD Blue Hills NW COUNTY Ellis 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, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF \_\_\_\_\_  
PRESENT PROD: OIL \_\_\_\_\_ BPD, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF \_\_\_\_\_

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	N	10.5	4 1/2	KB	3449	
LINER						
TUBING						
OPEN HOLE			7 7/8	3449	3450	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

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

TREATMENT INSTRUCTIONS: TREAT THRU TUBING  ANNULUS  CASING  TUBING/ANNULUS  HYDRAULIC HORSEPOWER ORDERED \_\_\_\_\_  
Set 4 1/2 at 3449' w/ 50 sks Howard lite  
75 sks (40-60) Permox 18% salt 75 CFR-3

400' salt for 30 bbl 12 bbl Super Flush K

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

- As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED
- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
  - To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
    - Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
    - Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
    - Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
  - That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
  - That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
  - That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
  - To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
  - That this contract shall be governed by the law of the state where services are performed or materials are furnished.
  - That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

MAR 30 1990  
3-30-1990  
CONSERVATION DIVISION  
I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.  
SIGNED \_\_\_\_\_ CUSTOMER

DATE 3-5-90  
TIME 1300 A.M. P.M.

HALLIBURTON SERVICES  
**JOB LOG**

15-051-24635-00-00

WELL NO. 3-1 LEASE Natural Loop Co TICKET NO. 711411

CUSTOMER Allan Dalg Co PAGE NO. 1

JOB TYPE 5 1/2 Long String DATE 3 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	
	0930							Called out
	1200							On location
	1210							Set up Truck
	1450							Break circulation
	1519	6	1		✓		200	Start running Salt Flush
	1523	6.5	23		✓		30	Start running Super Flush
	1519	5.5	38		✓		250	Start Mixing cement
	1524	5.8	70.8		✓		100	Finish mixing cement
	1528		—				—	Clear line + Release Plug
	1538	1	0		✓		150	Start displacement
	1545	7	54.4		✓		950	Plug down at 3806'
							OK	By Wireline Release back
							Held	Floot Held
								Wash + Reel
	1630							Job complete

RECEIVED  
 STATE COMMISSION  
 1990  
 3-30-1990  
 CONSTRUCTION DIVISION  
 Wichita, Kansas

81870 Jerry Bennett  
 88500 Kevin Gordley

CUSTOMER

15-051-24635-00-00

HALLIBURTON SERVICES

SUMMARY

HALLIBURTON LOCATION

BILLED ON TICKET NO.

714041

WELL DATA

FIELD \_\_\_\_\_ SEC. 1 TWP. 12S RNG. 15W COUNTY Ellis 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 \_\_\_\_\_

JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>3.5</u>	DATE <u>3.5</u>	DATE <u>3.5</u>	DATE <u>3.5</u>
TIME <u>09:30</u>	TIME <u>12:00</u>	TIME <u>15:20</u>	TIME <u>16:55</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J Bennett</u>	<u>RCM</u>	<u>50320</u>
<u>K Gordley</u>	<u>51736</u>	<u>50320</u>
<u>R O'Gras</u>	<u>Bulk 0815</u>	<u>50325</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE <u>Insert</u>	<u>1</u>	<u>Hansen</u>
GUIDE SHOE	<u>1</u>	<u>"</u>
CENTRALIZERS <u>1-3-5-7-9</u>	<u>5</u>	<u>"</u>
BOTTOM PLUG		
TOP PLUG <u>S-W</u>	<u>1</u>	<u>"</u>
HEAD <u>Manifold</u>	<u>1</u>	<u>"</u>
PACKER		
OTHER <u>Auto Fillup</u>	<u>1</u>	<u>"</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 \_\_\_\_\_

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 Cost

DESCRIPTION OF JOB Set 5 1/2 Lung String

JOB DONE THRU: TUBING  CASING  ANNULARS  TBG/ANN.

CUSTOMER REPRESENTATIVE [Signature]

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>50</u>	<u>Hansen</u>	<u>lbc</u>	<u>B</u>		<u>1.84</u>	<u>13.6</u>
	<u>75</u>	<u>40 LB</u>	<u>Pozmix</u>	<u>B</u>	<u>18% SeH 75% CFR-2 5 gal</u>	<u>1.93</u>	<u>14.32</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRES. FLUSH \_\_\_\_\_ BBL-GAL \_\_\_\_\_ TYPE Salt-Super Flush

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

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT \_\_\_\_\_ BBL-GAL \_\_\_\_\_ DISP. \_\_\_\_\_ BBL-GAL \_\_\_\_\_

SHUT-IN INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_ CEMENT SLURRY \_\_\_\_\_ BBL-GAL \_\_\_\_\_ VOLUME \_\_\_\_\_ BBL-GAL \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ AVERAGE RATES IN BPM \_\_\_\_\_ REMARKS Total Pipe 3465

TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ CEMENT LEFT IN PIPE \_\_\_\_\_ FEET 43.03 REASON Insert

CUSTOMER Allen Oil Company

LEASE Westford Loan Company

WELL NO. 3-1

JOB TYPE Lung String

DATE 3.5.90



HALLIBURTON SERVICES

Duncan, Oklahoma 73536

A Division of Halliburton Company

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME, CHARGE TO, ADDRESS, CITY, STATE, ZIP, WELL TYPE, WELL CATEGORY, WELL PERMIT NO., TYPE AND PURPOSE OF JOB, OWNER, CONTRACTOR, SHIPPED VIA, DELIVERED TO, ORDER NO., TICKET TYPE (CHECK ONE), SERVICE, SALES, NITROGEN JOB, LOCATION, CODE, 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.

Table with columns: PRICE REFERENCE, SECONDARY REF OR PART NO., L O C, ACCOUNT, DESCRIPTION, UNITS 1 (QTY, MEAS), UNITS 2 (QTY, MEAS), UNIT PRICE, AMOUNT. Rows include MILEAGE, Pump Charge, Plug, Guide Shoe, Insert Fleet, Auto Fillup, Centralizer, Super Flush X, Rotating Head.

NOT VALID FOR RECEIVING

RECEIVED STATE COMMISSION 3-30-1990

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. B-848089

WAS JOB SATISFACTORILY COMPLETED?, WAS OPERATION OF EQUIPMENT SATISFACTORY?, WAS PERFORMANCE OF PERSONNEL SATISFACTORY?, CUSTOMER OR HIS AGENT (PLEASE PRINT), 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

SUB TOTAL 1170 07, APPLICABLE TAXES WILL BE ADDED ON INVOICE.