

ORIGINAL

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

API No. 15 - 129-21204-0000

County Morton

NW - NW - SE - SE Sec. 27 Twp. 32 Rge. 40  East  West

1250 / Feet from (S)N (circle one) Line of Section

1250 / 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 Federal Land Bank G.U. B Well # 3HI

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3330' KB 3341'

Total Depth 2631' PBDT

Amount of Surface Pipe Set and Cemented at 603 / Feet

Multipple 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 ALI  
(Data must be collected from the Reserve Pit)

Chloride content 5800 ppm Fluid Volume 2140 bbls

Dewatering method used dried and filled

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 # 5952

Name: Amoco Production Company

Address P.O. Box 800, Rm. 2118

City/State/Zip Denver, CO 80201

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

Operator Contact Person: Julie Victor /

Phone (303) 830-4009

Contractor: Name: Cheyenne Drilling

License: 5382

Wellsite Geologist: \_\_\_\_\_

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 \_\_\_\_\_ PBDT

Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_

Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_

Other (SWD or Inj?) \_\_\_\_\_ Docket No. \_\_\_\_\_

6/13/93 / 6/15/93 8/27/93

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 to the best of my knowledge.

Signature Julie Victor

Title Permitting Representative Date August 31, 1993

Subscribed and sworn to before me this 31 day of August, 1993

Notary Public Natalie M. Wood

Date Commission Expires December 26, 1994

RECEIVED K.C.C. OFFICE USE ONLY  
STATE CORPORATION COMMISSION  
Letter of confidentiality Attached   
Wireline Log Received   
Timelog Received   
SEP 08 1993  
89-6-93  
DISTRIBUTION  
CONSERVATION DIVISION  
Wichita, Kansas  
SWD/Rep \_\_\_\_\_ NGPA  
Plug \_\_\_\_\_ Other \_\_\_\_\_  
(Specify)

SIDE TWO

Operator Name Amoco Production Company

Lease Name Federal Land Bank G.U. B Well # 3HI

Sec. 27 Twp. 32 Rge. 40  East  West

County Morton

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.)  Yes  No

Log Formation (Top), Depth and Datums  Sample

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run (Submit Copy.)  Yes  No

List All E. Logs Run:

Name	Top	Datum
Herington	2258'	
Krider	2290'	
Winfield	2334'	
Towanda	2398'	
Ft. Riley	2454'	
Council Grove	2554'	

CASING RECORD  New  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"	24#	603'	Class C	290	
Production	7-7/8"	5-1/2"	15.5#	2,379'	Class C	400	

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
4	2258-2268'; 2290-2308'; 2334-2354'; (slotted liner: 2379-2507')	Frac with 63,578 gal. gel and 245,780# 12/20 Brady sand	2334-2488'

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
N/A					
Date of First Resumed Production, SWD or Inj	Producing Method		<input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
SI					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		217			

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled 2258-2507'  
 (If vented, submit ACO-18)  Other (Specify) slotted liner

# ORIGINAL

## DRILLERS LOG

AMOCO PRODUCTION COMPANY  
FEDERAL LAND BANK GJ "B" NO. 3 HI  
SECTION 27-T32S-R40W  
MORTON COUNTY, KANSAS

API # 15-129-21204

COMMENCED: 06-13-93  
COMPLETED: 06-15-93

SURFACE CASING: 593' OF 8 5/8"  
CMTD W/140 SX LT. "C", 2% C.C.,  
1/4#/SX FLO-CELE; TAILED IN W/  
150 SX "C", 2% C.C., 1/4#/SX FLO-CELE.

FORMATION	DEPTH
SURFACE HOLE	0- 603
RED BED & SAND	603- 740
RED BED, SHALE, SAND & ANHYDRITE	740-1544
RED BED & SHALE	1544-2179
RED BED	2179-2379     RTD

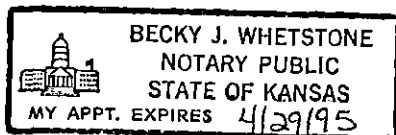
I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.

A.J. JACQUES

STATE OF KANSAS :ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 18TH DAY OF JUNE, 1993.



Becky J. Whetstone  
RECEIVED  
BECKY J. WHETSTONE, NOTARY PUBLIC  
STATE CORPORATION COMMISSION

SEP 06 1993  
07

CONSERVATION DIVISION  
Wichita, Kansas

**JOB LOG**

WELL NO. S-112 LEASE Ed Land Bank Co. TICKET NO. 345647

CUSTOMER Chrysalis Drilling PAGE NO. \_\_\_\_\_

FORM 2013 R-2

JOB TYPE 8 1/2 SURFACE DATE 6-13-93

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	11:00							Called
	13:00							ON location - Rig Drilling
	15:15							Run 8 1/2 casing
	16:10							Casing in - Circulate w/br
	16:15							Hook up to pump truck
	16:20	6	10			25		Pump 10 psi H <sub>2</sub> O
	16:22	6	51			250		140 sk Perm Plus H <sub>2</sub> O (21 cc, 1 1/2" Throats)
	16:31	6	35			300		150 sk Perm Plus (21 cc, 1 1/2" Throats)
	16:40							Map Plug
	16:41	6					150	Displace
	16:48		36			215/200		Plug Down - Shut in H <sub>2</sub> O
	16:50							Rig Down - Job Complete
								Rate - Lead - 6 BPM
								Trail - 6 BPM
								Avg - 4 BPM Average
								Pressure Lead - 250 psi
								Trail - 250 psi
								Avg - 200 psi Average
								Plug Inching, Pressure 300 psi
								Circulated 100 sk CEMENT to SURFACE ✓
								36 BBLs.

RECEIVED  
STATE CORPORATION COMMISSION

SEP 06 1993

# JOB SUMMARY

HALLIBURTON DIVISION Eastern Area 1  
 HALLIBURTON LOCATION Liberal, KS

BILLED ON TICKET NO. 345147

ORIGINAL

### WELL DATA

FIELD \_\_\_\_\_ SEC. 27 TWP. 32S RNG. 40W COUNTY Morton STATE KS

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
FORMATION THICKNESS _____	FROM _____ TO _____	CASING <u>N</u>	<u>21</u>	<u>2 1/2</u>	<u>KB</u>	<u>603</u>	
INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____		LINER					
PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____		TUBING					
COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____		OPEN HOLE		<u>12 1/2</u>	<u>KB</u>	<u>603</u>	SHOTS/FT.
PACKER TYPE _____ SET AT _____		PERFORATIONS					
BOTTOM HOLE TEMP. _____ PRESSURE _____		PERFORATIONS					
MISC. DATA _____ TOTAL DEPTH _____		PERFORATIONS					

### JOB DATA

#### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>Aluminum Drifts</u>		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS <u>S-1</u>		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER <u>Well 1-11</u>		

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>6-13-93</u>	DATE <u>6-13-93</u>	DATE <u>6-13-93</u>	DATE <u>6-13-93</u>
TIME <u>1100</u>	TIME <u>1300</u>	TIME <u>1120</u>	TIME <u>1655</u>

#### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>Eric Sisk</u>	<u>40076</u>	<u>Liberal, KS</u>
<u>Don Hill</u>	<u>52276-1010</u>	<u>"</u>
<u>Chris</u>	<u>52277-9001</u>	<u>Morton, KS</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. \_\_\_\_\_

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

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

DEPARTMENT Cement

DESCRIPTION OF JOB Cement 11 2 1/2" surface casing

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

CUSTOMER REPRESENTATIVE X John Berger

HALLIBURTON OPERATOR J. F. ... COPIES REQUESTED \_\_\_\_\_

### CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>140</u>	<u>Prem Plus HAC</u>	<u>B</u>	<u>27 CC, 1/4" Flocite</u>		<u>2.05</u>	<u>12.3</u>
<u>2</u>	<u>150</u>	<u>Premium Plus</u>	<u>B</u>	<u>24 CC, 1/4" Flocite</u>		<u>1.32</u>	<u>14.5</u>

#### PRESSURES IN PSI

#### SUMMARY

#### VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRESLUSH: BBL-GAL. 10 TYPE Water

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

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL-GAL. \_\_\_\_\_ DISPL. BBL-GAL. 35.9

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

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ TOTAL VOLUME: BBL-GAL. \_\_\_\_\_

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

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

CEMENT LEFT IN PIPE \_\_\_\_\_

FEET 30.5 REASON Shut In

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STATE COMMISSION  
07  
SEP 26 1993

CONSERVATION DIVISION  
Wichita, Kansas

CUSTOMER: Cherokee Drilling LEASE: 211 Land Rook Co WELL NO: 3-WZ JOB TYPE: 92% solvent DATE: 6-13-93

DISTRICT LIBERAL, KS

DATE 6-13-93

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

WELL NO. 3-H-I LEASE FEDERAL LAND BANK B.U. SEC. 27 TWP. 32S RANGE 4W  
FIELD \_\_\_\_\_ COUNTY MORTON STATE KS OWNED BY AMOCO

**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	24	8 5/8	KB	603	
LINER						
TUBING						
OPEN HOLE			12 1/4	KB	603	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

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

TREATMENT INSTRUCTIONS: TREAT THRU TUBING  ANNULUS  CASING  TUBING/ANNULUS  HYDRAULIC HORSEPOWER ORDERED \_\_\_\_\_  
CEMENT 8 5/8 SURFACE CASING

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.
- c) 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.
- 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 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 expressed in the agreement 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.

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STATE CORPORATION COMMISSION  
07  
SEP 07 1993  
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 \_\_\_\_\_ CUSTOMER  
DATE 6-13-93

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.

TIME 1300 A.M. P.M.

**RETAIN**



**BULK MATERIALS DELIVERY  
AND  
TICKET CONTINUATION**

**ORIGINAL**  
FOR INVOICE AND TICKET NO. **345647**

DATE <b>06-13-93</b>	CUSTOMER ORDER NO.	WELL NO. AND FARM <b>Federal Land Bank 3HI</b>	G.U. <b>Morton</b>	COUNTY	STATE <b>Ks.</b>
CHARGE TO <b>Cheyenne Drlg.</b>		OWNER <b>Amoco</b>	CONTRACTOR <b>Cheyenne #2</b>		No. <b>B 171220</b>
MAILING ADDRESS		DELIVERED FROM <b>Hugoton, Ks.</b>	LOCATION CODE <b>025535</b>	PREPARED BY <b>Pierce</b>	
CITY & STATE		DELIVERED TO <b>N/ Rolla</b>	TRUCK NO.	RECEIVED BY <i>E. E. Sole</i>	

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
		L	D		QTY.	MEAS.	QTY.	MEAS.			
504-120		2	B	Halliburton Light Cement	140	sk			8.05	1127	00
504-050	516.00265										
506-105	516.00286										
506-121	516.00259										
504-050	516.00265			Premium Plus Cement	150	sk			8.95	1342	50
509-406	890.50812			Calcium Chloride @ 2% in all	6	sk			28.25	169	50
507-210	890.50071			Flocele @ 1/8 in all	73	lb			1.40	102	20
					Returned Mileage Charge						
					TOTAL WEIGHT	LOADED MILES	TON MILES				
					SERVICE CHARGE ON MATERIALS RETURNED			CU. FEET			
500-207										307	383 75
					SERVICE CHARGE			CU. FEET			
500-306					Mileage Charge					337.82	117 15
					TOTAL WEIGHT	LOADED MILES	TON MILES				
No. <b>B 171220</b>								CARRY FORWARD TO INVOICE		SUB-TOTAL	
										<b>RECEIVED</b> STATE CORPORATION COMMISSION <b>SEP 06 1993</b> CONSERVATION DIVISION Wichita, Kansas	



HALLIBURTON SERVICES

Duncan, Oklahoma 73536

A Division of Halliburton Company

ORIGINAL NO. 345647-5

TICKET

PAGE 1 OF 1 PAGES

FORM 1906 R-11

WELL NO.—FARM OR LEASE NAME <i>3-AE Federal Land Bank Co.</i>		COUNTY <i>Moore</i>	STATE <i>KS</i>	CITY / OFFSHORE LOCATION	DATE <i>6-13-93</i>
CHARGE TO <i>Cheyenne Drilling</i>		OWNER <i>Amico</i>	TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>		NITROGEN JOB YES <input type="checkbox"/> NO <input type="checkbox"/>
ADDRESS <i>3497 W. Jones Ave.</i>		CONTRACTOR <i>Cheyenne #2</i>	LOCATION <i>1 Liberal, KS</i>		CODE <i>025540</i>
CITY, STATE, ZIP <i>GARDEN CITY 67846</i>		SHIPPED VIA <i>Howco</i>	FREIGHT CHARGES PPD <input type="checkbox"/> COLLECT <input type="checkbox"/>	LOCATION <i>2 Hugoton, KS</i>	
WELL TYPE <i>02</i>	WELL CATEGORY <i>01</i>	WELL PERMIT NO.	DELIVERED TO <i>location</i>	LOCATION <i>3</i>	
TYPE AND PURPOSE OF JOB <i>010</i>		ORDER NO. <b>B- 171220</b>	REFERRAL LOCATION		

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
					QTY	MEAS	QTY	MEAS			
000-117				MILEAGE	10	M.			2.75	27	50
001-016				Pump Charge	6.03	hr				7.35	00
030-018				SW Top Plug	1	EA	1	EA		130	00
40	807-93059			S-d Centralizers	3	EA			72.00	216	00
597	925-12090			ALUMINUM BASKET	1	EA				45	00
350	890-10902			WELL-A	1	LB				14	50

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

B- 171220

RECEIVED 242 10

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.

*J. E. FREASALE*

HALLIBURTON OPERATOR

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

STATE CORPORATION COMMISSION

SEP 06 1993

SUB TOTAL 242 10

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

CONSERVATION DIVISION  
Wichita, Kansas

EXTRA COPY



**JOB LOG**

WELL NO. PH1 LEASE Fed. Land Bank G.V.P. TICKET NO. 345807

CUSTOMER Cheyanne Delq. PAGE NO. \_\_\_\_\_

JOB TYPE 5 1/2 C.S. DATE 1-15-93

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0300							Called-out - requested 0300
	0130							ON loc. - Drilling
	0500							Rig-up Run Csg. Hook-up to circulate Safety meeting
	0717							Hook-up cont. lines
	0720	3-6	10				150	Pump 10 BBL preflush
	0723	6	110				250	Pump lead cont.
	0740	6	35				250	Pump trail cont.
	0748							Drop plug wash-up pump & lines
	0751	5-6	45				1250	Start Displ.
	0759	6-2	10				1150	Reduce Rate
	0803						1250	Plug landed
	0804							Release press. - float held
								Thank you,
								to crew
								Approx. 15 BBLs of cement to the pit. 40 ex to pit

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STATE CONSERVATION COMMISSION  
07

SEP 26 1993

CONSERVATION DIVISION  
Wichita, Kansas



WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ORIGINAL

FORM 1908 R-7

A Division of Halliburton Company

ATTACH TO INVOICE & TICKET NO. 345807

DISTRICT EASTERN

DATE 6-15-93

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

WELL NO. 3 HI LEASE Tidwell Land Bank G.V. B SEC. 27 TWP. 32 S RANGE 40 W FIELD COUNTY Morton STATE KS OWNED BY Amoco Production

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, LINER, TUBING, OPEN HOLE, PERFORATIONS.

PREVIOUS TREATMENT: DATE TYPE MATERIALS

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED Set 5 1/2 L.S. with 10000 lbs 30000 lbs 1 1/2" Lt. wt 14 1/2" floater, 15000 lbs "C" - 1 1/2" floater, displ. H2O

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...
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...
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...
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 representative of Halliburton.

RECEIVED STATE CORPORATION COMMISSION 07

SEP 06 1993

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

SIGNED [Signature] WICHITA, KANSAS CUSTOMER

DATE 6-15-93

TIME 0610 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.

RETAIN



ORIGINAL

NO. 345807-0

FORM 1906 R-11

WELL NO.—FARM OR LEASE NAME <i>Federal Land Bank G.V. B</i>		COUNTY <i>Moatan</i>	STATE <i>KS</i>	CITY / OFFSHORE LOCATION	DATE <i>10-15-93</i>
CHARGE TO <i>Cherokee Dalg</i>		OWNER <i>Amoco</i>	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 <i>Amoco #2</i>	LOCATION <i>1 Liberal</i>		CODE <i>25540</i>
CITY, STATE, ZIP		SHIPPED VIA <i>House</i>	FREIGHT CHARGES PPD <input type="checkbox"/> COLLECT <input type="checkbox"/>	LOCATION <i>2 Hugoton</i>	
WELL TYPE <i>02</i>	WELL CATEGORY <i>01</i>	WELL PERMIT NO.	DELIVERED TO <i>Location</i>	LOCATION <i>3</i>	
TYPE AND PURPOSE OF JOB <i>035</i>		<b>B-</b> <i>171227</i>	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		
<i>000-119</i>				MILEAGE	<i>EA</i>	<i>m</i>	<i>10</i>	<i>m</i>	<i>2.75</i>	<i>27 50</i>
<i>001-016</i>				<i>Pumping mg.</i>	<i>EA</i>	<i>hr</i>	<i>2341</i>	<i>ft</i>		<i>1165 00</i>
<i>12A</i>	<i>825.205</i>			<i>5 1/2 Guide shoe</i>	<i>1</i>	<i>EA</i>	<i>5 1/2</i>	<i>in</i>		<i>121 00</i>
<i>24A</i>	<i>815.19251</i>			<i>insert</i>	<i>1</i>	<i>EA</i>	<i>5 1/2</i>	<i>in</i>		<i>110 00</i>
<i>27</i>	<i>815.19311</i>			<i>F. H. up</i>	<i>1</i>	<i>EA</i>				<i>96 50</i>
<i>40</i>	<i>809.93022</i>			<i>ccnt.</i>	<i>5</i>	<i>EA</i>			<i>44.00</i>	<i>220 00</i>
<i>350</i>	<i>890.10802</i>			<i>Weld-A</i>	<i>1</i>	<i>lb.</i>				<i>14 50</i>

RECEIVED  
STATE CORPORATION COMMISSION

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

**B-** *171227*

SEP 06 1993 *4666 19*

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.

*Tom Royer*  
HALLIBURTON OPERATOR

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

CONSERVATION DIVISION  
Wichita, Kansas  
TOTAL *6370 69*

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

EXTRA COPY



HALLIBURTON SERVICES  
Duncan, Oklahoma 73536

A Division of Halliburton Company

# BULK MATERIALS DELIVERY AND TICKET CONTINUATION

ORIGINAL

FOR INVOICE AND TICKET NO. 315807

DATE 06-14-93	CUSTOMER ORDER NO.	WELL NO. AND FARM #3HI Federal Land Bank G.U. B	COUNTY Morton	STATE Kansas
CHARGE TO Cheyenne Drlg.		OWNER Amoco Production	CONTRACTOR Cheyenne #2	No. <b>B 171227</b>
MAILING ADDRESS		DELIVERED FROM Hugoton, ks	LOCATION CODE 025535	
CITY & STATE		DELIVERED TO NE/Rolla, Ks	TRUCK NO. 4461-4734	RECEIVED BY <i>Tom Rayson</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
		L	D		QTY.	MEAS.	QTY.	MEAS.			
504-050	516.00265	2	B	Premium Plus Cement	150	sk			8.95	1342	50
504-120		2	B	Halliburton Light Cement	300	sk			8.05	2415	00
504-050	516.00265										
506-105	516.00286										
506-121	516.00259										
507-210	890.50071	2	B	Flocele 1/2" W/ 450	113	lb			1.40	158	20

			Returned Mileage Charge	TOTAL WEIGHT	LOADED MILES	TON MILES	
				SERVICE CHARGE ON MATERIALS RETURNED			
500-207		2	B	SERVICE CHARGE		CU. FEET	
500-306		2	B	Mileage Charge	41,879	10	
				TOTAL WEIGHT	LOADED MILES	TON MILES	
					CARRY FORWARD TO INVOICE		
No. <b>B 171227</b>					Wichita, Kansas SUB-TOTAL		

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 STATE CORPORATION COMMISSION  
 SEP 06 1993  
 CONSERVATION DIVISION



# JOB SUMMARY

HALLIBURTON DIVISION EasternHALLIBURTON LOCATION Liberal**ORIGINAL**BILLED ON TICKET NO. 345807

## WELL DATA

FIELD Morton SEC. 27 TWP. 22S RNG. 40W COUNTY Morton 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>U</u>	<u>15.5</u>	<u>5 1/2</u>	<u>KB</u>	<u>2341</u>	
LINER						
TUBING						
OPEN HOLE			<u>5 3/8</u>	<u>2341</u>		SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

## JOB DATA

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE <u>insert/fill up 5 1/2</u>		<u>Hollowo</u>
GUIDE SHOE <u>regular 5 1/2</u>		
CENTRALIZERS <u>S-4</u>		
BOTTOM PLUG		
TOP PLUG <u>SW 5 1/2</u>		
HEAD <u>Miner Sold</u>		
PACKER		
OTHER <u>Weld-P</u>		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>6-11-93</u>	DATE <u>6-15-93</u>	DATE <u>6-15-93</u>	DATE <u>6-15-93</u>
TIME <u>300</u>	TIME <u>0130</u>	TIME <u>0717</u>	TIME <u>0905</u>

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>Tom Pappas</u>	<u>75496</u>	<u>Liberal</u>
<u>K. Kinsinger</u>	<u>38242</u>	<u>Liberal</u>
<u>W. Thomas</u>	<u>5307</u>	<u>Morton</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 \_\_\_\_\_

DESCRIPTION OF JOB Set 5% L.S.

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.

CUSTOMER REPRESENTATIVE **X** Jodi Pepper

HALLIBURTON OPERATOR Tom Pappas COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>300</u>	<u>C.H.W.</u>		<u>H</u>	<u>W/H Hecite</u>	<u>2.06</u>	<u>17.3</u>
	<u>150</u>	<u>C</u>		<u>H</u>	<u>W/H Hecite</u>	<u>1.32</u>	<u>14.8</u>

## PRESSURES IN PSI

## SUMMARY

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRESLUSH: BBL-GAL. 10 BBL TYPE H<sub>2</sub>O

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

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL-GAL. \_\_\_\_\_ DISPL: BBL-GAL. 55.5

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY: BBL-GAL. Lead Number 741 25.66

HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL-GAL. 210.82 BBLs

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ AVERAGE RATES IN BPM \_\_\_\_\_

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

FEET 46.80 REASON Shut Joint

**RECEIVED**  
STATE COMMISSION  
SEP 07 1993  
CONSERVATION DIVISION  
Wichita, Kansas

## REMARKS

cement to surface approx 15 BBLs

CUSTOMER: Chapman Doby LEASE: Liberal WELL NO: 241 JOB TYPE: 5-1/2 L.S. DATE: 6-15-93