

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

Operator: License # 5952

Name: Amoco Production Company

Address PO Box 800 Room 924

City/State/Zip Denver, CO 80201

Purchaser: N/A-Dry Hole

Operator Contact Person: Susan R. Potts

Phone (303) 830-5323

Contractor: Name: Cheyenne Drilling

License: 5382

Wellsite Geologist: Charles Schmaltz

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:

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

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

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

Deepening  Re-perf.  Conv. to Inj/SWD

Plug Back  PBT

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

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

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

3/27/96 4/6/96 4/6/96  
Spud Date Date Reached TD Completion Date

API NO. 15- 075-20580-0000

County Hamilton

SW NE SE Sec. 31 Twp. 21S Rge. 39 X W

1500 Feet from S/N (circle one) Line of Section

800 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 Silverheels Well # 1-31

Field Name Wildcat

Producing Formation Dry

Elevation: Ground 3482.43' KB 3493'

Total Depth 5425' PBT 2332'

Amount of Surface Pipe Set and Cemented at 493 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 cnt.

Drilling Fluid Management Plan None 6-14-96  
(Data must be collected from the Reserve Pit) RU

Chloride content 15,000 ppm Fluid volume 2000 bbls

Dewatering method used Dried and Filled

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name None

Lease Name MAY 2 License No. \_\_\_\_\_

Quarter 2 Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

County CONFIDENTIAL Docket No. \_\_\_\_\_

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, 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 Josua P. B.A.B.

Title Senior Staff Assistant Date 5/2/96

Subscribed and sworn to before me this 2nd day of May 19 96.

Notary Public Kevin R. Harris

Date Commission Expires 11-10-96

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

RECEIVED  
KANSAS CORPORATION COMMISSION Form ACO-1 (7-91)

MAY 03 1996  
5-3-96  
CONSERVATION DIVISION  
WICHITA, KS

Operator Name Amoco Production Company Lease Name Silverheels Well # 1-31

Sec. 31 Twp. 21S Rge. 39  East  West  
 County Hamilton

**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 (No outside analysis)  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy.)  
 List All E.Logs Run: Microlog, Long Spaced Sonic, Spectral Density Dual Spaced Neutron II, High Resolution Induction

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Name	Top	Datum
Base Stone Corral	2318'	KB
Chase	2701'	
Council Grove	2924'	
Admire	3374'	
Base Heebner	3980'	
Lansing	4029'	
Base Kansas City	4479'	
Marmaton	4527'	
Cherokee	4682'	
Morrow	4980'	
Mississippian	5225'	

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	12.25"	8.625"	20	493'	Premium Plus Lite	150	2%CC+1/4#Flocele
					Premium Plus	100	2%CC+1/4#Flocele

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 Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	N/A		

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
N/A				
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
N/A-Dry				
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  Dry

Production Interval  Other (Specify) \_\_\_\_\_

CONFIDENTIAL

ORIGINAL

DRILLERS LOG

AMOCO PRODUCTION COMPANY  
SILVERHEELS #1-31  
SECTION 31-T21S-R39W  
HAMILTON COUNTY, KANSAS

15-075-20580

RELEASED

COMMENCED: 03-26-96  
COMPLETED: 04-06-96

SEP 16 1998

SURFACE CASING: 493' OF █████ CMTD  
██████ SKS PREMIUM PLUS LITE+ 2% CC + 1/4  
#/SK FLOCELE. TAILED IN W7100 SKS  
PREMIUM PLUS + 2% CC + 1/4 #/SK FLOCELE.

FROM CONFIDENTIAL

FORMATION

DEPTH

SURFACE HOLE	0 - 493
SHALE	493 - 1861
SHALE & LIMESTONE	1861 - 2710
STONE CORRAL	2710 - 3795
HEBNER	3795 - 4022
LANSING	4022 - 4405
MARMATON	4405 - 4976
MORROW	4976 - 5203
ST. LOUIS	5203 - 5425 RTD

KCC  
MAY 2  
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I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.

*Wray Valentine*

WRAY VALENTINE

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 9TH DAY OF APRIL, 1996



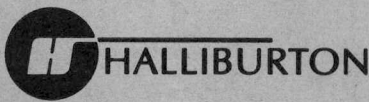
JOLENE K. RUSSELL

*Jolene K. Russell*  
NOTARY PUBLIC

RECEIVED  
KANSAS CORPORATION COMMISSION

MAY 03 1996

CONSERVATION DIVISION  
WICHITA, KS



Tight  
15,075-20,580 plugged  
0000

**JOB LOG** HAL-2013-C

DATE 4-6-96 PAGE NO.

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Amoco Prod (ST-1)	1-31	SILVERDALE	PTM	921314

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	

	0930							Called out - Pump down
	1230							Call out - L.A. 8 P
	1425							1425 - 1st Pump 23327
	1426	3.5	10					START 1st Pump
	1425	5.5	15					START 2nd Pump
	1430	2.5	3.5					START 3rd Pump
	1431	2.5	26					START 4th Pump
	1436							START 5th Pump
	1500							11 Pump - D.P.
	1515	4.5	10					START 6th Pump
	1517	4.5	24					START 7th Pump
	1527	4.5	3.5					START 8th Pump
	1523	4.5	7					START 9th Pump
	1525							Call out - Pump down to 620 FT
	1540							11 Pump - D.P.
	1546	5.0	30					START 10th Pump
	1552	5.0	15					START 11th Pump
	1553	5.0	5					START 12th Pump
	1626							START 13th Pump
	1645							Call out - Pump down to 4 FT
	1646		3					Run P. out.
	1648							START OFF MOVE TO 4 FT
	1650		3					Run P. out
	1653							START OFF MOVE TO 4 FT
	1658		4.5					Pump out.
	1700							11 Pump - D.P.

ORIGINAL

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RELEASED

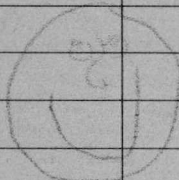
SEP 16 1998

FROM CONFIDENTIAL

KCC

MAY 2

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RECEIVED  
KANSAS CORPORATION COMMISSION

MAY 03 1996

CONSERVATION DIVISION  
WICHITA, KS

THANKS FOR CALLING AND RETURNING  
READY SERVICE. L. CRAMER  
HAVE A GOOD DAY

BREASTPUMP - CHECK N-CURRENTING

THIS IS RELATED TO COMPANY

RETAIN











## TERMS AND CONDITIONS

For good and valuable consideration received, Customer (as identified on the face of this document) and Halliburton Energy Services, a division of Halliburton Company (hereinafter "Halliburton") agree as follows:

A. **CUSTOMER REPRESENTATION** - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton.

B. **PRICE AND PAYMENT** - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices are exclusive of taxes. If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If Customer has an approved open account, invoices are payable on the twentieth day after the date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

C. **RELEASE AND INDEMNITY** - CUSTOMER AGREES TO RELEASE HALLIBURTON GROUP FROM ANY AND ALL LIABILITY FOR ANY AND ALL DAMAGES WHATSOEVER TO PROPERTY OF ANY KIND OWNED BY, IN THE POSSESSION OF, OR LEASED BY CUSTOMER AND THOSE PERSONS AND ENTITIES CUSTOMER HAS THE ABILITY TO BIND BY CONTRACT. CUSTOMER ALSO AGREES TO DEFEND, INDEMNIFY, AND HOLD HALLIBURTON GROUP HARMLESS FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, COSTS, EXPENSES, ATTORNEY FEES AND DAMAGES WHATSOEVER FOR PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE AND LOSS RESULTING FROM:

LOSS OF WELL CONTROL; SERVICES TO CONTROL A WILD WELL WHETHER UNDERGROUND OR ABOVE THE SURFACE; RESERVOIR OR UNDERGROUND DAMAGE, INCLUDING LOSS OF OIL, GAS, OTHER MINERAL SUBSTANCES OR WATER; SURFACE DAMAGE ARISING FROM UNDERGROUND DAMAGE; DAMAGE TO OR LOSS OF THE WELL BORE; SUBSURFACE TRESPASS OR ANY ACTION IN THE NATURE THEREOF; FIRE; EXPLOSION; SUBSURFACE PRESSURE; RADIOACTIVITY; AND POLLUTION AND ITS CLEANUP AND CONTROL.

CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS WILL APPLY EVEN IF THE LIABILITY AND CLAIMS ARE CAUSED BY THE SOLE, CONCURRENT, ACTIVE OR PASSIVE NEGLIGENCE, FAULT, OR STRICT LIABILITY OF ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, THE UNSEAWORTHINESS OF ANY VESSEL OR ANY DEFECT IN THE DATA, PRODUCTS, SUPPLIES, MATERIALS OR EQUIPMENT FURNISHED BY HALLIBURTON GROUP WHETHER IN THE DESIGN, MANUFACTURE, MAINTENANCE OR MARKETING THEREOF OR FROM A FAILURE TO WARN OF SUCH DEFECT. "HALLIBURTON GROUP" IS DEFINED AS HALLIBURTON, ITS PARENT, SUBSIDIARY, AND AFFILIATED COMPANIES AND ITS/THEIR OFFICERS, DIRECTORS, EMPLOYEES, AND AGENTS. CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS APPLY WHETHER THE PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE OR LOSS IS SUFFERED BY ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, CUSTOMER, OR ANY OTHER PERSON OR ENTITY AND THE CUSTOMER WILL SUPPORT SUCH OBLIGATIONS ASSUMED HEREIN WITH LIABILITY INSURANCE TO THE MAXIMUM EXTENT ALLOWED BY APPLICABLE LAW.

D. **EQUIPMENT LIABILITY** - Customer shall at its risk and expense attempt to recover any Halliburton equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs, unless caused by Halliburton's sole negligence. If the equipment is not recovered or is irreparable, Customer shall pay the replacement cost, unless caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and shall permit Halliburton to monitor the recovery or abandonment efforts all at no risk or liability to Halliburton. Customer shall be responsible for damage to or loss of Halliburton equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton equipment damaged by corrosion or abrasion due to well effluents.

E. **LIMITED WARRANTY** - Halliburton warrants only title to the equipment, products, and materials supplied under this agreement and that same are free from defects in workmanship and materials for one year from date of delivery. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's sole 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, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. 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 EQUIPMENT, MATERIALS, 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 GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed to by Halliburton's negligence or fault. Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

F. **GOVERNING LAW** - The validity, interpretation and construction of this agreement shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. **WAIVER** - Customer agrees to waive the provisions of the Texas Deceptive Trade Practices-Consumer Protection Act or any similar federal or state statute to the extent permitted by law.

H. **MODIFICATIONS** - Customer agrees that Halliburton shall not be bound by any modifications to this agreement, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 5151 San Felipe, Houston, Texas 77056.



**JOB LOG** HAL-2013-C

CUSTOMER Amoco	WELL NO. 1-31	LEASE SILVER HILLS	JOB TYPE [REDACTED]	TICKET NO. 921557
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0600							hooked up for job
	0945							on loc rig drilling
	1230							start slip A <b>ORIGINAL</b>
	1318							FROM CONFIDENTIAL
	1642							Start 8 5/8 c/w & PE Hook up 8 5/8 PC 2011 in air Lsg on BOP Hook up 8 5/8 PC & Circ from to rig pump
	1711							13ft c/w wire
	1712							<del>CONFIDENTIAL</del>
	1727							These c/w hook from to PE
	1734	5.5	55					100 start mixing 15000 pt 191 2" pipe 74 ft at 12.2" pipe
	1743	5.5	22.5					180 start mixing 10000 pt 220 1/4" pipe
	1748	0	29.5					Flow mixing start down wire plug
	1749		29.5					50 start mix
	1751	5.0	29.5					130 10 bbls displaced cut to surface
	1756	1.5	29.5					100 21 bbls in stop pipe Land plug did not land. Release float - did not hold Shut in PC.
	1804		29.5					
								Thanks for calling Tyce sunny's crew
								20 bbl cut to surface 54.5 sk to surface max psi 140

**RECEIVED**  
 KANSAS CORPORATION COMMISSION  
 MAY 03 1998  
 CONSERVATION DIVISION  
 WICHITA, KS



HALLIBURTON

# JOB SUMMARY

HALLIBURTON DIVISION Mid Continent Area  
HALLIBURTON LOCATION Liberal KS

BILLED ON TICKET NO. 921557

## WELL DATA

FIELD \_\_\_\_\_ SEC. 31 TWP. 21 RNG. 39 COUNTY Hamilton 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 WT. \_\_\_\_\_

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

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

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>U</u>	<u>32</u>	<del>18</del>	<u>KB</u>	<u>UG3</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

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**ORIGINAL**

## JOB DATA

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>INSURE 8 5/8</u>	<u>1</u>	<u>H</u>
FLOAT SHOE <u>Fill 9.554 8 5/8</u>	<u>1</u>	
GUIDE SHOE		<u>0</u>
CENTRALIZERS <u>54 8 5/8</u>	<u>3</u>	
BOTTOM PLUG		<u>W</u>
TOP PLUG <u>SW 8 5/8</u>	<u>1</u>	
HEAD <u>PCI 8 5/8</u>	<u>1</u>	<u>L</u>
PACKER		
OTHER		<u>0</u>

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>3-27</u>	DATE <u>3-27</u>	DATE <u>3-27</u>	DATE <u>3-27</u>
TIME <u>0600</u>	TIME <u>0945</u>	TIME <u>1735</u>	TIME <u>1805</u>

### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J. Davis</u>	<u>H20042</u>	<u>Liberal KS</u>
<u>F4550</u>	<u>PU</u>	<u>KS</u>
<u>S. Tait</u>	<u>52823</u>	<u>"</u>
<u>E4568</u>	<u>75374 PIM</u>	<u>"</u>
<u>D. Colquhoun</u>	<u>H037</u>	<u>HUGOLINA KS</u>
<u>H2441</u>	<u>7620 Bulk</u>	<u>KS</u>

**MAY 2**

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### 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. \_\_\_\_\_

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 \_\_\_\_\_

DESCRIPTION OF JOB \_\_\_\_\_

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

CUSTOMER REPRESENTATIVE **X**

HALLIBURTON OPERATOR Yucc Davis COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>[redacted]</u>	<u>PT Light</u>		<u>B</u>	<u>2%CC 1/4" F10</u>	<u>2.06</u>	<u>12.3</u>
<u>1</u>	<u>[redacted]</u>	<u>PF</u>		<u>B</u>	<u>2%CC 1/4" F10</u>	<u>1.32</u>	<u>14.8</u>

## PRESSURES IN PSI

## SUMMARY

## VOLUMES

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

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

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL (BBL.-GAL.) 29.5

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_ CEMENT SLURRY BBL.-GAL. 55 L.C. 23.5 TIC

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

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

AVERAGE RATES IN BPM MAY 03 1996

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

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

FEET 41 REASON Shoe joint

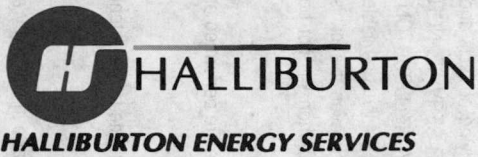
## REMARKS

Give MSPS TO 5441

CUSTOMER Amco  
LEASE Silver Hairs  
WELL NO. 1-31  
JOB TYPE 8 5/8 50  
DATE 3-27-96







CHARGE TO: *Amco Prod*  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE, ZIP CODE: \_\_\_\_\_

CUSTOMER COPY

TICKET

No.

921557 : X

PAGE 1 OF 2

HAL-1906-N

SERVICE LOCATIONS 1. 025540	WELL/PROJECT NO. 1-31	LEASE S. 16 4 1/2 1/2	COUNTY/PARISH Holt	STATE KS	CITY/OFFSHORE LOCATION Hendrick	DATE 3-27-90	OWNER Sams
2. 025535	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR Cheyenne	RIG NAME/NO. 3	SHIPPED VIA Holt	DELIVERED TO Locust	ORDER NO.
3.	WELL TYPE 01	WELL CATEGORY 01	JOB PURPOSE 010	WELL PERMIT NO.	WELL LOCATION LOND.		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

CONFIDENTIAL

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
000-117		1			MILEAGE	125	mi	2	mi	2.85	712.50
000-119		1			CRAN W/ 10090	125	mi	2	mi	1.50	1250.00
001-016		1			PUMP CHARGE			6	hr	630.00	630.00
020-018		1			5W TOP RIG	1	hr	8	hr	170.00	130.00
247	815.19501	1			INSUR	1	hr	8	hr	152.00	182.00
27	815.19414	1			FILL ASSY	1	hr	8	hr	64.00	64.00
41	806.61042	1			CAMP	3	hr	6	hr	61.00	183.00
350	890.10802	1			HOLE W/ 10	1	hr	1	hr	16.75	16.75

ORIGINAL  
RELEASED  
SEP 16 1998  
FROM CONFIDENTIAL

RECEIVED  
KANSAS CORPORATION COMMISSION  
MAY 2  
MAY 03  
CONFIDENTIAL  
CONSERVATION DIVISION

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

**X**  
 DATE SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_  A.M.  P.M.  
 do  do not require IPC (Instrument Protection).  Not offered

SUB SURFACE SAFETY VALVE WAS:  
 PULLED & RETURN  PULLED  RUN

TYPE LOCK	DEPTH	
BEAN SIZE	SPACERS	
TYPE OF EQUALIZING SUB.	CASING PRESSURE	
TUBING SIZE	TUBING PRESSURE	WELL DEPTH
TREE CONNECTION	TYPE VALVE	

<b>SURVEY</b>	AGREE	UN-DECIDED	DIS-AGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

**PAGE TOTAL** 1918 25  
**FROM CONTINUATION PAGE(S)** 4607 82  
**SUB-TOTAL**  
 APPLICABLE TAXES WILL BE ADDED ON INVOICE

**CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES** The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) <b>X</b>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <i>[Signature]</i>	HALLIBURTON OPERATOR/ENGINEER <i>[Signature]</i>	EMP # F4550	HALLIBURTON APPROVAL
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## TERMS AND CONDITIONS

For good and valuable consideration received, Customer (as identified on the face of this document) and Halliburton Energy Services, a division of Halliburton Company (hereinafter "Halliburton") agree as follows:

A. **CUSTOMER REPRESENTATION** - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton.

B. **PRICE AND PAYMENT** - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices are exclusive of taxes. If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If Customer has an approved open account, invoices are payable on the twentieth day after the date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

C. **RELEASE AND INDEMNITY** - CUSTOMER AGREES TO RELEASE HALLIBURTON GROUP FROM ANY AND ALL LIABILITY FOR ANY AND ALL DAMAGES WHATSOEVER TO PROPERTY OF ANY KIND OWNED BY, IN THE POSSESSION OF, OR LEASED BY CUSTOMER AND THOSE PERSONS AND ENTITIES, CUSTOMER HAS THE ABILITY TO BIND BY CONTRACT. CUSTOMER ALSO AGREES TO DEFEND, INDEMNIFY, AND HOLD HALLIBURTON GROUP HARMLESS FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, COSTS, EXPENSES, ATTORNEY FEES AND DAMAGES WHATSOEVER FOR PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE AND LOSS RESULTING FROM:

LOSS OF WELL CONTROL; SERVICES TO CONTROL A WILD WELL WHETHER UNDERGROUND OR ABOVE THE SURFACE; RESERVOIR OR UNDERGROUND DAMAGE, INCLUDING LOSS OF OIL, GAS, OTHER MINERAL SUBSTANCES OR WATER; SURFACE DAMAGE ARISING FROM UNDERGROUND DAMAGE; DAMAGE TO OR LOSS OF THE WELL BORE; SUBSURFACE TRESPASS OR ANY ACTION IN THE NATURE THEREOF; FIRE; EXPLOSION; SUBSURFACE PRESSURE; RADIOACTIVITY; AND POLLUTION AND ITS CLEANUP AND CONTROL.

CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS WILL APPLY EVEN IF THE LIABILITY AND CLAIMS ARE CAUSED BY THE SOLE, CONCURRENT, ACTIVE OR PASSIVE NEGLIGENCE, FAULT, OR STRICT LIABILITY OF ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, THE UNSEAWORTHINESS OF ANY VESSEL OR ANY DEFECT IN THE DATA, PRODUCTS, SUPPLIES, MATERIALS OR EQUIPMENT FURNISHED BY HALLIBURTON GROUP WHETHER IN THE DESIGN, MANUFACTURE, MAINTENANCE OR MARKETING THEREOF OR FROM A FAILURE TO WARN OF SUCH DEFECT. "HALLIBURTON GROUP" IS DEFINED AS HALLIBURTON, ITS PARENT, SUBSIDIARY, AND AFFILIATED COMPANIES AND ITS/THEIR OFFICERS, DIRECTORS, EMPLOYEES, AND AGENTS. CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS APPLY WHETHER THE PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE OR LOSS IS SUFFERED BY ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, CUSTOMER, OR ANY OTHER PERSON OR ENTITY AND THE CUSTOMER WILL SUPPORT SUCH OBLIGATIONS ASSUMED HEREIN WITH LIABILITY INSURANCE TO THE MAXIMUM EXTENT ALLOWED BY APPLICABLE LAW.

D. **EQUIPMENT LIABILITY** - Customer shall at its risk and expense attempt to recover any Halliburton equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs, unless caused by Halliburton's sole negligence. If the equipment is not recovered or is irreparable, Customer shall pay the replacement cost, unless caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and shall permit Halliburton to monitor the recovery or abandonment efforts all at no risk or liability to Halliburton. Customer shall be responsible for damage to or loss of Halliburton equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton equipment damaged by corrosion or abrasion due to well effluents.

E. **LIMITED WARRANTY** - Halliburton warrants only title to the equipment, products, and materials supplied under this agreement and that same are free from defects in workmanship and materials for one year from date of delivery. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's sole 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, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. 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 EQUIPMENT, MATERIALS, 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 GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed to by Halliburton's negligence or fault. Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

F. **GOVERNING LAW** - The validity, interpretation and construction of this agreement shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. **WAIVER** - Customer agrees to waive the provisions of the Texas Deceptive Trade Practices-Consumer Protection Act or any similar federal or state statute to the extent permitted by law.

H. **MODIFICATIONS** - Customer agrees that Halliburton shall not be bound by any modifications to this agreement, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 5151 San Felipe, Houston, Texas 77056.