

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

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 _____ SIOW _____ Temp.Abd. _____
 Gas _____ ENHR _____ SIGW _____
 Dry _____ Other (Core, WSW, Expl., Cathodic, etc.) _____

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

Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
 Deepening _____ Re-perf. _____ Conv. to Inj/SWD _____
 Plug Back _____ PBDT _____
 Commingled _____ Docket No. _____
 Dual Completion _____ Docket No. _____
 Other (SWD or Inj?) _____ Docket No. _____
5/30/93 6/2/93 7/6/93
Spud Date Date Reached TD Completion Date

API No. 15 - 129-21189-0000
County Morton
SE - SE - NW - NW Sec. 23 Twp. 32 Rge. 40 East West
4030 Feet from (S)N (circle one) Line of Section
4030 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 Tennis G.U. Well # 3HI
Field Name Hugoton
Producing Formation Chase
Elevation: Ground 3313' KB 3324'
Total Depth 2654' PBDT _____
Amount of Surface Pipe Set and Cemented at 570 Feet
Multiple Stage Cementing Collar Used? _____ Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan Alt 1 7-22-93 JZ
(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. _____

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 July 7, 1993
Subscribed and sworn to before me this 7 day of July, 1993
Notary Public Natalie M. Wood
Date Commission Expires December 26, 1994

K.C.C. OFFICE USE ONLY
F Letter of confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
RECEIVED
STATE CORPORATION COMMISSION
Distribution
 KCC _____ SWD/Rep _____ NGPA
_____ KGS JUL 14 1993 Other _____
7-14-93 (Specify)
KANSAS CORPORATION COMMISSION
Wichita, Kansas

SIDE TWO

Operator Name Amoco Production Company Lease Name Tennis G.U. Well # 3HI
 County Morton
 Sec. 23 Twp. 32 Rge. 40 East West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run (Submit Copy.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datums <input checked="" type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Herington</td> <td>2,396'</td> <td></td> </tr> <tr> <td>Krider</td> <td>2,422'</td> <td></td> </tr> <tr> <td>Winfield</td> <td>2,456'</td> <td></td> </tr> <tr> <td>Towanda</td> <td>2,532'</td> <td></td> </tr> <tr> <td>Ft. Riley</td> <td>2,586'</td> <td></td> </tr> </tbody> </table>	Name	Top	Datum	Herington	2,396'		Krider	2,422'		Winfield	2,456'		Towanda	2,532'		Ft. Riley	2,586'	
Name	Top	Datum																	
Herington	2,396'																		
Krider	2,422'																		
Winfield	2,456'																		
Towanda	2,532'																		
Ft. Riley	2,586'																		

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"	24#	570'	Class C	350	
Production	7-7/8"	5-1/2"	15.5#	2,654'	Class C	450	

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
4	2396-2400'; 2426-2444'; 2456-2494'; 2534-2572'; 2588-2614'	Frac with 245,700# 12/20 sand and 1519 Bbls gel

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj		Producing Method			
N/A		<input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		1500			

Disposition of Gas:	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled	2396-2614
(If vented, submit ACO-18)	<input type="checkbox"/> Other (Specify) _____	

ORIGINAL

DRILLERS LOG

AMOCO PRODUCTION COMPANY
TENNIS GU NO. 3 HI
SECTION 23-T32S-R40W
MORTON COUNTY, KANSAS

COMMENCED: 05-30-93
COMPLETED: 06-02-93

SURFACE CASING: 560' OF 8 5/8"
CMTD W/125 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- 570
RED BED	570-1026
RED BED, SAND & ANHYDRITE	1026-1656
RED BED & SHALE	1656-2226
LIME & SHALE	2226-2654 RTD

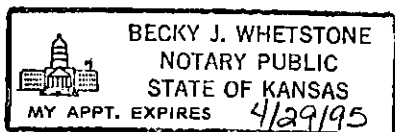
I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.

A.J. Jacques
A.J. JACQUES

STATE OF KANSAS :ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 2ND DAY OF JUNE, 1993.



Becky J. Whetstone
BECKY J. WHETSTONE, NOTARY PUBLIC

RECEIVED
STATE COOPERATION COMMISSION

JUN 14 1993

STATE COOPERATION DIVISION
MORTON COUNTY, KANSAS

HALLIBURTON SERVICES
JOB LOG

WELL NO. 2HE LEASE Tanning C-11 TICKET NO. 545-50

CUSTOMER Chesapeake PAGE NO. 1

FORM 2013 R-2

JOB TYPE 8 5/8 surface DATE 5-20-93

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								(1) 11 1/2" bit
								(2) 11 1/2" bit, 11 1/2" DP
								Start casing, 11 1/2" casing, 11 1/2" DP
								Casing on bit
								hookup 11 1/2" casing, 11 1/2" DP
								hookup 11 1/2" casing, 11 1/2" DP
	17:58	4	47			100		Start 1st cement
	18:16	6	32			100		Start 2nd cement
	18:51							Start 3rd cement
	19:24	6	18			100		Start 4th cement
	19:56	6	6			150		Cement circulated to surface
	19:59	3	12			150		Shut in rate
	20:10					150		plug tested
	20:22					200		pressured up
	20:26							shut in point
	20:28							job complete
								Thanks for Call
								H. H. Hester
								Robert & Co.
								String circulated = 16 BBL =
								Plug tested PST = 150 #
								(1) 1st cement = 100 #
								Average PST { 2nd cement = 100 #
								{ 3rd cement = 150 #
								(1) 1st cement = 6 BPM
								Average Rate { 2nd cement = 6 BPM
								{ 3rd cement = 55 BPM
								{ Overall = 6 BPM

RECEIVED
STATE CORPORATION COMMISSION

MAY 14 1993

CONSERVATION DIVISION
Wichita, Kansas

RETAIN

FORM 1906 R-11

WELL NO.—FARM OR LEASE NAME		COUNTY	STATE	CITY / OFFSHORE LOCATION	DATE
CHARGE TO		OWNER		TICKET TYPE (CHECK ONE)	NITROGEN JOB
ADDRESS		CONTRACTOR		SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>
CITY, STATE, ZIP		SHIPPED VIA	FREIGHT CHARGES		1 LOCATION CODE
WELL TYPE		WELL CATEGORY	WELL PERMIT NO.	DELIVERED TO	2 LOCATION CODE
TYPE AND PURPOSE OF JOB		B-	ORDER NO.	REFERRAL LOCATION	3 LOCATION CODE

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		
				MILEAGE	1					

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

B-

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

HALLIBURTON APPROVAL

HALLIBURTON OPERATOR

RECEIVED
 STATE CORPORATION COMMISSION

SUB TOTAL
 4 1993

APPLICABLE TAXES WILL BE ADDED ON INVOICE.
 CONSERVATION DIVISION
 Wichita, Kansas

RETAIN



JOB SUMMARY

HALLIBURTON DIVISION Liberal Area
 HALLIBURTON LOCATION Liberal, Ks.

BILLED ON TICKET NO. 31750

WELL DATA

FIELD N. 24th SEC. 30NE TWP. 27N RNG. 17W COUNTY Wichita 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>7-10-93</u>	DATE <u>7-10-93</u>	DATE <u>7-10-93</u>	DATE <u>7-20-93</u>
TIME <u>14:00</u>	TIME <u>16:00</u>	TIME <u>16:30</u>	TIME <u>18:00</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS <u>8 7/8</u>	<u>3</u>	<u>HULLCO</u>
BOTTOM PLUG		
TOP PLUG		
HEAD <u>Aluminum bit</u>	<u>1</u>	
PACKER		
OTHER <u>1 1/2" A.</u>	<u>116</u>	

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>R. Taylor</u>	<u>10018</u>	<u>Liberal</u>
<u>L. Williams</u>	<u>50936</u>	<u>Liberal</u>
<u>R. Stone</u>	<u>12821</u>	<u>Hugobon</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API _____
 DISPL. FLUID _____ DENSITY _____ LB/GAL. API _____
 PROP. TYPE _____ SIZE _____ LB.
 ACID TYPE _____ GAL. _____ %
 SURFACTANT TYPE _____ GAL. _____ IN.
 NE AGENT TYPE _____ GAL. _____ IN.
 FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN.
 GELLING AGENT TYPE _____ GAL.-LB. _____ IN.
 FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN.
 BREAKER TYPE _____ GAL.-LB. _____ IN.
 BLOCKING AGENT TYPE _____ GAL.-LB. _____
 PERFPAC BALLS TYPE _____ QTY. _____
 OTHER _____

DEPARTMENT Cement
 DESCRIPTION OF JOB ch. water

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X Dominic Bartello

HALLIBURTON OPERATOR W. L. COPIES REQUESTED 2

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>150</u>	<u>110C</u>	<u>C</u>	<u>B</u>	<u>26CC - 4 1/2" thick</u>	<u>21</u>	<u>143</u>
<u>2</u>	<u>150</u>	<u>Brann P.</u>	<u>C</u>	<u>B</u>	<u>26CC - 4 1/2" thick</u>	<u>126</u>	<u>147</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL.-GAL. _____ TYPE _____
 BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. _____
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL.-GAL. _____
 HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. 546
 ORDERED _____ AVAILABLE _____ USED _____ AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____ CEMENT LEFT IN PIPE _____
 FEET _____ REASON _____

RECEIVED
 STATE CORPORATION COMMISSION
 JUL 14 1993
 DIVISION
 Kansas

CUSTOMER: Liberal Area
 LEASE: 1/2" 50' 93
 WELL NO: 341
 JOB TYPE: 1 1/2" 50' 93



WORK ORDER CONTRACT AND PRE-TREATMENT DATA

FORM 1908 R-7

A Division of Halliburton Company

ATTACH TO INVOICE & TICKET NO. 343580

DISTRICT Liberal

ORIGINAL

DATE 5-30-93

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

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

WELL NO. 3HI LEASE Trane SEC. 27 TWP. 32S RANGE 40W

FIELD U. R. 11. COUNTY Morton STATE KS OWNED BY Amoco

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

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

PREVIOUS TREATMENT: DATE TYPE MATERIALS

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

Cement 8 1/2" surface casing w/ 125 lbs HHC w/ 2% CC, 4 1/2" 7 1/2" floater & 150 lbs Premium Plus w/ 2% CC & 1/2" 5" floater, displace 5 wiper tool plug to Alan Battle w/ 34 3/4" fresh water.

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

As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

- a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice.
b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
1. Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage.
2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
3. Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.
c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton.
d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE.
e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton.
f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

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

SIGNED [Signature] CUSTOMER

DATE 5-30-93

TIME 11:00 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

STATE CORPORATION DIVISION Wichita, Kansas JUL 14 1993

HALLIBURTON SERVICES JOB LOG

WELL NO. 3HI LEASE Tennis TICKET NO. 345701
 CUSTOMER Cheyenne D/ly PAGE NO. 1
 JOB TYPE 5/2" Production DATE 6-1-93

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	03:30							Called Out
	07:00							ON location, rig on last Circulation
	20:00							100' to T.D.
	20:00							R.d T.D. hole, T.O.H.
	22:15							Start casing, run floating cement
	22:45							Safety meeting, Formation Packer @ 2466'
	23:30							Casing run, drop ball
	23:40							hookup iron, Co Trk
	23:45	2	10				500	pressure up, on packer
	23:49	1/2	1/2				700	pressure up
	23:51	1/4	1/4				900	pressure up
	23:52	1/2	1/4				1200	pressure up, ball went thru
	23:52	3	10				100	pressure up, ball went thru
	23:55							⊖ Shut down
	24:10							hookup iron, rig circulating
	24:35							hookup iron, Co Trk
	24:39	6	112				200	Start lead Cement
	24:57	6	35				250	Start Tail Cement
	01:05							⊖ Shut down, drop plug
	01:08							wash pumps & lines
	01:13	6	40				150	Start water displacement, NO Circulation
	01:20	3	19				150	Slowed rate
	01:28						500	plug landed
	01:28						900	pressured up
	01:29							⊖ released pressure, float held
	01:30							Job Complete
								Thanks for calling Halliburton
								Slurry circulated = 0 bbls
								Plug landing PSI = 500 #
								(Lead Cnt = 6 B.P.M
								Average rate & Tail Cnt = 6 B.P.M
								Displ = 5 B.P.M
								(Lead Cnt = 6 B.P.M
								Average PSI & Tail Cnt = 250 #
								Displ = 5 B.P.M
								Overall = 250 #

FIELD OFFICE

STATE CORPORATION COMMISSION
 JUL 5 1993
 CONSERVATION DIVISION
 Wichita, Kansas

**WORK ORDER CONTRACT
AND PRE-TREATMENT DATA**

FORM 1908 R-7

A Division of Halliburton Company

ATTACH TO INVOICE & TICKET NO. 345201

DISTRICT Liberal **ORIGINAL** DATE 6-1-93

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

WELL NO. SHZ LEASE Tenn's SEC. 30 TWP. 32 RANGE 39
FIELD N. Rolka COUNTY Morton STATE KS OWNED BY Amoco Prod

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
FORMATION THICKNESS	FROM TO						
PACKER: TYPE <u>Comp.</u>	SET AT <u>2466'</u>						
TOTAL DEPTH <u>2654'</u>	MUD WEIGHT						
BORE HOLE <u>7 7/8"</u>							SHOTS/FT.
INITIAL PROD: OIL BPD, H ₂ O BPD, GAS MCF							
PRESENT PROD: OIL BPD, H ₂ O BPD, GAS MCF							

PREVIOUS TREATMENT: DATE TYPE MATERIALS

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

Cement 5 1/2" Production casing w/ 300 sks HHC w/ 1/4" BK floater + 150 sks Premium Plus w/ 1/4" BK floater, displace 5 super Top Plug, packer collar w/ 59 balls fresh under

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 seaworthiness 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 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.
- e) 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.
- f) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
- f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
- g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT. **JUN 4 1993**

SIGNED [Signature] CUSTOMER CONSERVATION DIVISION

DATE _____

TIME _____ 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



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION**ORIGINAL**

BILLED ON TICKET NO.

WELL DATA

FIELD _____ SEC _____ TWP _____ RNG _____ COUNTY _____ STATE _____

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						
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR	1	H
FLOAT SHOE		
GUIDE SHOE	1	
CENTRALIZERS	5	
BOTTOM PLUG	1	H
TOP PLUG	1	
HEAD	1	
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 6-1-93	DATE 6-1-93	DATE 6-1-93	DATE 6-2-93
TIME 07:30	TIME 07:00	TIME 23:30	TIME 01:30

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
R. Taylor	04033	Liberal
L. W. H. H.	2934	Liberal
J. H. C.	3700	Liberal
J. D. H.	6612	Houston
F. D. H.	4450	Houston
	2000	Houston

MATERIALS

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

DISPL. FLUID _____ DENSITY _____ LB/GAL-°API

PROP. TYPE _____ SIZE _____ LB.

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

SURFACTANT TYPE _____ GAL. _____ IN

NE AGENT TYPE _____ GAL. _____ IN

FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN

GELLING AGENT TYPE _____ GAL.-LB. _____ IN

FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN

BREAKER TYPE _____ GAL.-LB. _____ IN

BLOCKING AGENT TYPE _____ GAL.-LB. _____ IN

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT _____
DESCRIPTION OF JOB _____JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN CUSTOMER REPRESENTATIVE **X** *John R. ...*

HALLIBURTON OPERATOR _____ COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	300	HRC	C	B	1/2" Thick	2.5	120
2	100	Portland	C	B	1/2" Thick	1.5	110

PRESSURES IN PSI**SUMMARY****VOLUMES**

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL-GAL. _____ TYPE _____

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL-GAL. _____ PAD: BBL-GAL. _____

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL. _____ DISPL: BBL-GAL. _____

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

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

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

FEET _____ REASON _____

REMARKS

RECEIVED
STATE CORPORATION COMMISSION
DATE **JUL 14 1993**
CONSERVATION DIVISION



HALLIBURTON SERVICES

Duncan, Oklahoma 73536

A Division of Halliburton Company

TICKET

NO. 345701-4

PAGE 1 OF PAGES

ORIGINAL

FORM 1906 R-11

WELL NO.—FARM OR LEASE NAME <i>247 JENNAIS B.U</i>		COUNTY <i>Martin</i>	STATE <i>KS</i>	CITY / OFFSHORE LOCATION	DATE <i>6-1-93</i>
CHARGE TO <i>Cheyenne Drilling</i>		OWNER <i>Amoco Prod</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>Cheyenne Drilling #2</i>	LOCATION <i>1 Liberal</i>		CODE <i>025540</i>
CITY, STATE, ZIP		SHIPPED VIA <i>Co. Trk</i>	FREIGHT CHARGES PPD <input type="checkbox"/> COLLECT <input type="checkbox"/>	LOCATION <i>2 Hagan</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- <i>171156</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>000-117</i>				<i>MILEAGE 8408</i>	<i>1</i>	<i>un</i>	<i>10</i>	<i>m</i>	<i>275</i>	<i>27</i>	<i>50</i>
<i>001-016</i>				<i>Pump Charge</i>	<i>8</i>	<i>hr</i>	<i>2660</i>	<i>cl</i>		<i>1225</i>	<i>02</i>
<i>001-018</i>				<i>Additional hours</i>	<i>5</i>	<i>hr</i>			<i>195</i>	<i>975</i>	<i>00</i>
<i>12A</i>	<i>825-205</i>			<i>Guide Shoe</i>	<i>1</i>	<i>ea</i>	<i>5 1/2</i>	<i>in</i>		<i>121</i>	<i>02</i>
<i>40</i>	<i>807-93022</i>			<i>Controlizers</i>	<i>5</i>	<i>ea</i>	<i>5 1/2</i>	<i>in</i>	<i>44</i>	<i>220</i>	<i>02</i>
<i>350</i>	<i>890-10803</i>			<i>Well A</i>	<i>1</i>	<i>ea</i>	<i>1</i>	<i>lb</i>		<i>14</i>	<i>50</i>

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

B- *171156*

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.

Richard L. [Signature]
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL _____

SUB TOTAL

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

EXTRA COPY

