

FORM MUST BE TYPED

ORIGINAL SIDE ONE

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

API No. 15 129-21232-0000

County Morton

SW NE NE Sec. 9 Twp. 32 Rge. 40 East West

4030 Foot from S (circle one) Line of Section

1250 Foot from E/W (circle one) Line of Section

Footage Calculated from Nearest Outside Section Corner:
 NE, NW, or SW (circle one)

Lease Name Bishop GU Well # 2HI

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3317' KB 3328'

Total Depth 2487' PBD 2485.50'

Amount of Surface Pipe, Saturated Cemented at 572 Feet

Amount of Cementing Collar Used? Yes No

If yes, how deep? _____ Feet

Completion, cement circulated from _____

Foot depth to _____ w/ _____ sx cmt.

Operator: License # 5952

Name: Amoco Production Company

Address P O Box 800

Room 925

City/State/Zip Denver, Co 80201

Purchaser: _____

Operator Contact Person: Ellen Hartzler

Phone (303) 830-5130

Contractor: Name: Cheyenne Drilling

License: 5832 5382

Wellsite Geologist: None

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SIOW Temporary
Gas ENHR SIGW Other
Dry Other (Core, WSW, Expl., Cathodic, etc.)

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

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening _____ Re-perf. _____ Conn. to Inj/SWD _____

Plug Back _____

Commingled _____ Docket No. _____

Dual Completion _____ Docket No. _____

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

10/20/93 10/22/93 12/10/93
Spud Date Date Reached TD Completion Date

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ALT 1 JWH 9-14-94

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 PERMITTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

I certify that 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: Ellen Hartzler

Title Sr. Staff Assistant

Date April 25, 1994

Subscribed and sworn to before me this 22nd day of April 1994

Notary Public [Signature]

My Commission Expires August 02, 1994

K.C.C. OFFICE USE ONLY
F Letter of confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution
KCC _____ SWD/Rep _____ NGPA _____
SGS _____ Plug _____ Other _____
(Specify)

Operator Name Amoco Production Company Lease Name Bishop GU Well # 2H1
 County Morton
 Sec. 9 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.) 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: **COMPENSATED SPECTRAL GAMMA**

Name	Top	Datum
Herrington	2186	KB
Krider	2202	
Winfield	2250	
Towanda	2318	
Ft. Riley	2380	

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#	572	Class C	300	2% CaCl ₂ 75 lbs Flocc
Production	7 7/8"	5 1/2"	15.5#	2487	Class C	400	100 lbs Flocc

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Perforate				
Protect Casing				
Plug Back TD				
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	2190-2196'; 2210-2230'; 2250-2266';		Frac with 44,540# 10/20 Brady Sand. Acicize with 1000 gal 15% HCL.	

UBING RECORD: N/A Size: Set At Packer At Liner Run Yes No

Date of First, Resumed Production, SWD or Inj Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours: Oil Bbls. Gas 200 Mcf Water Bbls. Gas-Oil Ratio Gravity

Disposition of Gas: Vented Sold Used on Lease Open Hole Perf. Dually Compressed Commingled 2190-2266
 (If vented, submit ACO-18). Other (Specify)

WELL DATA

FIELD *N. Rella* SEC. *9* TWP. *32* RNG. *40* COUNTY *Madison* 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	<i>N</i>	<i>15.5</i>	<i>5 1/2</i>	<i>K.B.</i>	<i>2450</i>	
LINER						
TUBING	<i>U</i>	<i>21</i>	<i>8 1/2</i>	<i>K.B.</i>	<i>592</i>	
OPEN HOLE			<i>7 1/2</i>	<i>5900</i>	<i>2450</i>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <i>10-22-93</i>	DATE <i>10-22-93</i>	DATE <i>10-22-93</i>	DATE <i>10-22-93</i>
TIME <i>02:30</i>	TIME <i>06:00</i>	TIME <i>10:30</i>	TIME <i>15:30</i>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<i>R Taylor</i>	<i>40028</i>	<i>Liberal</i>
<i>L. Williams</i>	<i>52938</i>	<i>Liberal</i>
<i>Larsen</i>	<i>4461</i>	<i>Huyton</i>
<i>G2089</i>	<i>5303</i>	<i>Huyton</i>
	<i>3626</i>	<i>Huyton</i>
	<i>2649</i>	<i>Huyton</i>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		<i>H</i>
FLOAT SHOE	<i>1</i>	<i>o</i>
GUIDE SHOE		<i>o</i>
CENTRALIZERS	<i>5</i>	<i>o</i>
BOTTOM PLUG	<i>1</i>	<i>o</i>
TOP PLUG	<i>1</i>	<i>o</i>
HEAD	<i>1</i>	<i>o</i>
PACKER		<i>o</i>
OTHER <i>Well A</i>	<i>1</i>	<i>o</i>

MATERIALS

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

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

PROP. TYPE _____ SIZE _____ LB. _____

ACID TYPE _____ GAL. _____ % _____

SURFACTANT TYPE _____ 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 _____

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CONSERVATION DIVISION
WICHITA, KS

DEPARTMENT *Cement*

DESCRIPTION OF JOB *5 1/2 Prod*

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

CUSTOMER REPRESENTATIVE **X**

HALLIBURTON OPERATOR *R Taylor*

COPIES REQUESTED *1*

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<i>1</i>	<i>300</i>	<i>HLC</i>	<i>C</i>	<i>D</i>	<i>1/2 7/8 Floccule</i>	<i>206</i>	<i>123</i>
<i>2</i>	<i>100</i>	<i>Prem Plus</i>	<i>C</i>	<i>B</i>	<i>1/2 7/8 Floccule</i>	<i>132</i>	<i>148</i>

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. *59*

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL.-GAL. *139.5*

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. *192.5*

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET *2* REASON *No shoe joint*

REMARKS

See Job log

CUSTOMER *Amco Production*
LEASE *Liberal*
WELL NO. *041*
JOB TYPE *5 1/2 Production*
DATE *10-22-93*



CHARGE TO: Amoco Production
 ADDRESS:
 CITY, STATE, ZIP CODE:

COPY

TICKET

No.

549206 - 9

PAGE 1 OF 2

FORM 1906 R-12

SERVICE LOCATIONS 1. <u>025540</u>	WELL/PROJECT NO. <u>2HI</u>	LEASE <u>Bibbs G.U.</u>	COUNTY/PARISH <u>Marion</u>	STATE <u>KS</u>	CITY/OFFSHORE LOCATION	DATE <u>12-22-93</u>	OWNER <u>Same</u>
2. <u>025535</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>Cherokee Dr</u>	RIG NAME/NO. <u>2</u>	SHIPPED VIA <u>C.T.</u>	DELIVERED TO <u>Location</u>	ORDER NO.
3.	WELL TYPE	WELL CATEGORY <u>01</u>	JOB PURPOSE <u>035</u>	WELL PERMIT NO.	WELL LOCATION <u>N. Pella</u>		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT		
		LOC	ACCT	DF			QTY.	U/M	QTY.	U/M				
<u>000-117</u>		<u>1</u>				<u>MILEAGE</u>	<u>2408</u>	<u>(RT)</u>	<u>1</u>	<u>hr</u>	<u>48</u>	<u>mi</u>	<u>2.75</u>	<u>132.00</u>
<u>001-016</u>		<u>1</u>				<u>Pump Charge</u>	<u>6</u>	<u>hr</u>	<u>2490</u>	<u>FL</u>			<u>(787)</u>	<u>1290.00</u>
<u>030-016</u>		<u>1</u>				<u>5w Top Plug</u>	<u>1</u>	<u>ea</u>	<u>5 1/2</u>	<u>in</u>				<u>60.00</u>
<u>5A</u>	<u>232.02100</u>	<u>1</u>				<u>Flat Shoe</u>	<u>1</u>	<u>ea</u>	<u>5 1/2</u>	<u>in</u>				<u>225.00</u>
<u>40</u>	<u>407.93022</u>	<u>1</u>				<u>Centralizer</u>	<u>5</u>	<u>ea</u>	<u>5 1/2</u>	<u>in</u>	<u>44</u>	<u>ea</u>		<u>220.00</u>
<u>350</u>	<u>890.10802</u>	<u>1</u>				<u>Weld A</u>	<u>1</u>	<u>ea</u>	<u>1</u>	<u>lb</u>				<u>14.50</u>

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 CONSERVATION DIVISION
 WICHITA, KS

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.		SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		SURVEY		AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	<u>1941</u>	<u>50</u>	
CUSTOMER OR CUSTOMER'S AGENT SIGNATURE X		TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					FROM CONTINUATION PAGE(S)	<u>4498</u>	<u>14</u>	
DATE SIGNED		BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?								
TIME SIGNED		TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?								
<input type="checkbox"/> A.M. <input type="checkbox"/> P.M.		TUBING SIZE	TUBING PRESSURE	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?						<u>64.39</u>	<u>6.4</u>
<input type="checkbox"/> do <input type="checkbox"/> do not require IPC (Instrument Protection). <input type="checkbox"/> Not offered		TREE CONNECTION	TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO					SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE			
				<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND								

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)	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE)	HALLIBURTON OPERATOR/ENGINEER	EMP #	HALLIBURTON APPROVAL	
X	<u>Richard J. High</u>	<u>Richard J. High</u>	<u>DV033</u>	<u>w/39%</u>	<u>3928.18</u>

Disc.

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 FORM 2013 R-4

 CUSTOMER **Amoco Prod.** WELL NO. **2 HE** LEASE **Bishop GU** JOB TYPE **8 1/2 Surface** TICKET NO. **549047**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1630							Time Colled.
	1800							Time Ready
	1900							Time outdr. Rig Ddly Surface Hole
	2015							Start Pump Casing
	2110							Casing in Hole
	2110							Hookup To Circulate Casing
	2120							Circulate Casing w/ Reg Pump.
	2122							Circulate Mhd To Ground Level
	2138							Hookup To Pump Track
	2130							200 Start Mixing Cement
	2140	5.1	54.76					200 Start Tap Cement
	2146	5	35.20					250 Finish Mixing Cement
	2147		90.02	TOTAL BBL				250 % SLT Cement Pump Pkg.
	2148	4.5						50 Start Displacement
		2.8	33.8					wash Pump Lines
	2200							250/400 Pkg Down
								SLT in Head
								Circulate Cement To The P.T
								8 BBL 22 SE

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APR 26 1994

 CONSERVATION DIVISION
 WICHITA, KS

 Thanks For Calling Halliburton
 Energy Service
 Dave G
 Crew

McCart
Liberal, Ks

ORIGINAL

BILLED ON TICKET NO. *5490147*

CUSTOMER: *Amoco Production*
LEASE: *Bishop CU*
WELL NO.: *2 NE*
JOB TYPE: *8 1/2" SURFACE*
DATE: *10-20-93*

WELL DATA

FIELD _____ SEC. *9* TWP. *35* RNG. *40W* COUNTY *Monterey* STATE *Ks*

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING			<i>2.4</i>	<i>8 5/8</i>	<i>KB</i>	<i>575</i>	
LINER							
TUBING							
OPEN HOLE				<i>12 1/4</i>	<i>EL</i>	<i>572</i>	SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

FORMATION THICKNESS _____ FROM _____ TO _____
INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
PACKER TYPE _____ SET AT _____
BOTTOM HOLE TEMP. _____ PRESSURE _____
MISC. DATA _____ TOTAL DEPTH _____

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <i>10-20</i>	DATE <i>10-20</i>	DATE <i>10-20</i>	DATE <i>10-20</i>
TIME <i>1630</i>	TIME <i>1900</i>	TIME <i>2100</i>	TIME <i>2200</i>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<i>D. Lane</i>	<i>40075</i>	<i>Liberal Ks</i>
<i>D. Pierce</i>	<i>59179</i>	<i>"</i>
<i>H. Teedler</i>	<i>13706</i>	<i>Higdon Ks</i>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
<i>8 5/8</i>		<i>Hawco</i>
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG <i>Baffle Plate</i>	<i>3</i>	
TOP PLUG	<i>1</i>	
HEAD	<i>1</i>	
PACKER		
OTHER <i>Hawco Weld</i>	<i>1 / 13</i>	

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 _____ IN
FLUID LOSS ADD. TYPE _____ IN
GELLING AGENT TYPE _____ GAL.-LB.
FRIC. RED. AGENT TYPE _____ GAL.-LB. IN
BREAKER TYPE _____ GAL. _____ IN
BLOCKING AGENT TYPE _____ GAL.-LB.
PERFPAC BALLS TYPE _____ QTY.
OTHER _____
OTHER _____

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APR 26 1994
CONSERVATION DIVISION WICHITA, KS

DEPARTMENT *Cement*
DESCRIPTION OF JOB *8 1/2" SURFACE*
JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
CUSTOMER REPRESENTATIVE *X*
HALLIBURTON OPERATOR *D. Lane* COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<i>150</i>	<i>Prem Plus</i>	<i>LTJST</i>		<i>2% Cell 1/4# Flocc</i>	<i>2.05</i>	<i>12.3</i>
	<i>150</i>	<i>Prem Plus</i>			<i>2% Cell 1/4# Flocc</i>	<i>1.32</i>	<i>14.8</i>

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. *33.8*
SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN. _____ CEMENT SLURRY: BBL.-GAL. *90.02*
HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____
ORDERED _____ AVAILABLE _____ USED _____
AVERAGE RATES IN BPM _____
TREATING _____ DISPL. _____ OVERALL _____
CEMENT LEFT IN PIPE _____
FEET *44 3/4* REASON *Stop Job*

REMARKS



CHARGE TO: Amoco Production
 ADDRESS:
 CITY, STATE, ZIP CODE:

COPY

TICKET

No. 549047-4

PAGE 1 OF 2

FORM 1906 R-12

SERVICE LOCATIONS 1. <u>25540</u>	WELL/PROJECT NO. <u>2 HI</u>	LEASE <u>Bishop GU</u>	COUNTY/PARISH <u>Morton</u>	STATE <u>Ks</u>	CITY/OFFSHORE LOCATION	DATE <u>10-20-93</u>	OWNER <u>Amoco</u>
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>Chasmas Only 2nd</u>	RIG NAME/NO.	SHIPPED VIA <u>Loc.</u>	ORDER NO.	
3.	WELL TYPE	WELL CATEGORY	JOB PURPOSE <u>010 8 3/8 Super</u>	WELL PERMIT NO.	WELL LOCATION <u>E of P. O. Field</u>		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS <u>0203</u>					

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	U/M				
<u>000-117</u>						<u>MILEAGE</u>	<u>20</u>	<u>miles</u>			<u>2.75</u>	<u>55.00</u>
<u>001-016</u>						<u>Pump charge</u>	<u>575</u>	<u>FT</u>			<u>(500)</u>	<u>825.00</u>
<u>030-018</u>						<u>Sub Top Pkg</u>	<u>1</u>	<u>Excl</u>	<u>8 3/4</u>		<u>130.00</u>	<u>130.00</u>
<u>40</u>	<u>807-93059</u>					<u>Centralizers</u>	<u>3</u>				<u>72.00</u>	<u>216.00</u>
<u>597</u>	<u>895-1269</u>					<u>Baffle Plate</u>	<u>1</u>				<u>45.00</u>	<u>45.00</u>
<u>350</u>	<u>890-16802</u>					<u>Huro Weld A</u>	<u>1</u>		<u>LB</u>		<u>14.50</u>	<u>14.50</u>

RECEIVED
 KANSAS CORPORATION COMMISSION
 APR 26 1994
 CONSERVATION DIVISION
 WICHITA, KS

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. CUSTOMER OR CUSTOMER'S AGENT SIGNATURE <u>X Sam Cormack Co Rep.</u> DATE SIGNED _____ TIME SIGNED _____ <input type="checkbox"/> A.M. <input type="checkbox"/> P.M. <input type="checkbox"/> do <input type="checkbox"/> do not require IPC (Instrument Protection). <input type="checkbox"/> Not offered	SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN	SURVEY 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	AGREE UN-DECIDED DIS-AGREE	PAGE TOTAL <u>1285</u> <u>50</u> FROM CONTINUATION PAGE(S) <u>3587</u> <u>58</u> SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE <u>4873.08</u>	
	TYPE LOCK _____ DEPTH _____ BEAN SIZE _____ SPACERS _____ TYPE OF EQUALIZING SUB. _____ CASING PRESSURE _____ TUBING SIZE _____ TUBING PRESSURE _____ WELL DEPTH _____ TREE CONNECTION _____ TYPE VALVE _____				

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)	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE)	HALLIBURTON OPERATOR/ENGINEER	EMP #	HALLIBURTON APPROVAL
	<u>X</u>	<u>DG Wade</u>	<u>59179</u>	<u>w/39% disc. 2972.58</u>

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.

