

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

APRIL 15 093-21297 0000
County Kearny

NE SW SW Sec. 8 Twp 25S Rge. 38 East West
1250 Foot from S (circle one) Line of Section
4030 Foot from E (circle one) Line of Section

Footage: Calculated from Hugot Outside Section Corner:
(SE, NW, or SW (circle one))

Lease Holder R. T. Beaty /A/ Well # 3HI
Field Name Hugoton

Producing Formation Chase
Elevation: Ground 3155' KB 3166'

Total Depth 2611' PBTD 2609.50

Amount of Surface Pipe Set and Cemented at 627 Foot
Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Foot

If Alternative II completion, cement circulated from _____
Foot depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan ALT 1 8H 9-15-94
(Data must be collected from the Reservoir Pit)

Chloride content 5800 ppm Fluid Volume 2140 bbls
Dewatering method used dried and filled

Location of RECEIVED if hauled offsite:
KANSAS CORPORATION COMMISSION

Operator Name _____ License No. _____
APR 26 1994

Lease Name _____ Twp. _____ S. Rng. _____ E/W _____
CONSERVATION DIVISION WICHITA, KS
County _____ Docket No. _____

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

Wellsite Geologist: None

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.
Gas ENHR SIGW
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-parf. Conn. to Inj/SWD

Plug Back _____

Commingle Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

12/14/93 12/16/93 02/10/94
Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months.). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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 Susan Callahan

Notary 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 SVO/Rep NGPA
KCG Plug Other (Specify)

Operator Name Amoco Production Company Lease Name R. T. Beaty /A/ Well # 3HI

County Kearny
 Sec. 8 Twp. 25 Rge. 38 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: <p style="text-align: center;">COMPENSATED SPECTRAL DENSITY</p>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Herrington</td> <td>2340</td> <td>KB</td> </tr> <tr> <td>Krider</td> <td>2350</td> <td></td> </tr> <tr> <td>Winfield</td> <td>2386</td> <td></td> </tr> <tr> <td>Towanda</td> <td>2454</td> <td></td> </tr> <tr> <td>Ft. Riley</td> <td>2496</td> <td></td> </tr> </table>	Name	Top	Datum	Herrington	2340	KB	Krider	2350		Winfield	2386		Towanda	2454		Ft. Riley	2496	
Name	Top	Datum																	
Herrington	2340	KB																	
Krider	2350																		
Winfield	2386																		
Towanda	2454																		
Ft. Riley	2496																		

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#	627' 634'	Class C	300	2% CaCl ₂ 75 lbs Flocele
Production	7 7/8"	5 1/2"	15.5#	2602' 2611'	Class C	575	144 lbs Flocele

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth		Type of Cement	# Sacks Used	Type and Percent Additives
	Top	Bottom			
<input type="checkbox"/> Perforate					
<input type="checkbox"/> Protect Casing					
<input type="checkbox"/> Plug Back TD					
<input type="checkbox"/> Plug Off Zone					

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
4	2340-2360'; 2386-2410'; 2454-2476';		Frac w/ 245,100# 10/20 Sand	2340-2526'
	2496-2526';			

TUBING RECORD. Size N/A Set At _____ Packer At _____ Liner Run Yes No

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

Estimated Production Per 24 Hours Oil _____ Bbls. Gas 456 Mcf Water _____ Bbls. Gas-Oil Ratio _____ Gravity _____

Disposition of Gas: Vented Sold Used on Lease
 METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled 2340-2526
 Other (Specify) _____
 (If vented, submit ACO-18)

ORIGINAL

DRILLERS LOG

AMOCO PRODUCTION COMPANY
R.T. BEATY GU "A" NO. 3 HI
SECTION 8-T25S-R38W
KEARNY COUNTY, KANSAS

API# 15-093-21297

COMMENCED: 12-14-93
COMPLETED: 12-17-93

SURFACE CASING: 627' OF 8 5/8"
CMTD W/150 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
CONDUCTOR CASING	0- 80
SURFACE HOLE	80- 637
RED BED	637-2070
SHALE	2070-2585
COUNCIL GROVE	2585-2611 RTD

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KANSAS CORPORATION COMMISSION

APR 26 1994

CONSERVATION DIVISION
WICHITA, KS

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

CHEYENNE DRILLING, INC.

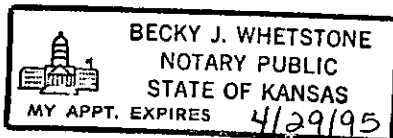
A.J. JACQUES

STATE OF KANSAS :ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 17TH DAY OF DECEMBER, 1993.

Becky J. Whetstone

BECKY J. WHETSTONE, NOTARY PUBLIC



JOB LOG FORM 2013 R-4

 DATE **12-16-93** PAGE NO.

 CUSTOMER **Amoco Production** WELL NO. **3 HI** LEASE **RT Party Gd. A** JOB TYPE **52 Long string** TICKET NO. **574504**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1230							Called out on locust. re Rig up Safety Meeting Discus Job with Sam Carmack Run pipe
								Circulate with Rig Pump Hook up Cement Team
	2128	6	174.2		✓		250	Start head cement 425 SKS
	2154	6	23.5		✓		250	Start tail cement 110 SKS
	2157		5				0	Wash up Tank
	2200				✓		0	Release plug
	2201	6	1-		✓		150 250	Displace plug
	2212	6	56		✓		750	Circulate cement
	2215	1	62.2		✓		1300	Head Plug Release Check float OK
								Circulate 6 BBL cement

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 CONSERVATION DIVISION
 WICHITA, KS



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

OK City
Liberal KS

BILLED ON TICKET NO. 594504

CUSTOMER
A-1000
PRODUCTION LEASE
RT BATTY SU
WELL NO. 2 HI
JOB TYPE
5 1/2" Long String
DATE 11-16-93

WELL DATA

FIELD _____ SEC. 8 TWP. 25 RNG. 38W COUNTY Keeney 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	N	155	5 1/2	KB	2613	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE <u>Supersol II</u>	<u>1</u>	<u>H</u>
GUIDE SHOE		<u>0</u>
CENTRALIZERS <u>34</u>	<u>5</u>	<u>L</u>
BOTTOM PLUG		
TOP PLUG <u>Swiper</u>	<u>1</u>	<u>C</u>
HEAD <u>PC</u>		<u>0</u>
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>12-16-93</u>	DATE <u>12-16-93</u>	DATE <u>12-16-93</u>	DATE <u>12-16-93</u>
TIME <u>1230</u>	TIME <u>1630</u>	TIME <u>2125</u>	TIME <u>2215</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>D Nicholas</u>	<u>40078</u>	<u>Liberal</u>
<u>W Fox</u>	<u>50404</u>	<u>"</u>
<u>H Todd</u>	<u>50737</u>	<u>Huyton</u>
<u>C Connelton</u>	<u>3626</u>	<u>"</u>
<u>G 2569</u>	<u>4714</u>	<u>"</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API

DISPL. FLUID _____ DENSITY _____ LB/GAL. API

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL. _____ %

SURFACTANT TYPE _____ GAL. _____ %

NE AGENT TYPE _____

FLUID LOSS ADD. TYPE _____

GELLING AGENT TYPE _____ GAL.-LB.

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

BREAKER TYPE _____ GAL.-LB.

BLOCKING AGENT TYPE _____

PERFPAC BALLS TYPE _____

OTHER _____

OTHER _____

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DEPARTMENT Contract

DESCRIPTION OF JOB _____

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

CUSTOMER REPRESENTATIVE X

HALLIBURTON OPERATOR Orville A. ... COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>475</u>	<u>C Light</u>			<u>1/4" Fluorite</u>	<u>2.04</u>	<u>12.3</u>
	<u>100</u>	<u>C</u>			<u>1 1/2" Fluorite</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. 622

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL.-GAL. 197.7

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

ORDERED _____ AVAILABLE _____ USED _____ REMARKS Circulated 6 PBI Cement

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 0 REASON _____



TICKET CONTINUATION

COPY 111

TICKET No. _____

HALLIBURTON ENERGY SERVICES

FORM 1911 R-9

CUSTOMER Amoco Production	WELL R.T. BEATY A #3 HI	DATE 12-16-93	PAGE 	OF
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PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	OF							
504-050	516.00265				Premium Plus Cement	100	sk			9 22	922 00
504-120					Halliburton light Cement	475	sk			8 21	3,899 75
504-050	516.00265										
506-105	516.00286										
506-121	516.00259										
507-210	890.50071				Flocele B/ $\frac{1}{2}$ W/ 575	144	lb			1 40	201 60
500-207					SERVICE CHARGE					CUBIC FEET 585	1 35 789 75
500-305					MILEAGE CHARGE	TOTAL WEIGHT 53,349#	LOADED MILES 42			TON MILES 1,120.329	95 1,064 31

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 CONSERVATION DIVISION
 WICHITA, KS

CONTINUATION TOTAL _____



HALLIBURTON ENERGY SERVICES

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

COPY

TICKET

No.

574504 - 7

PAGE 1 OF

FORM 1906 R-13

SERVICE LOCATIONS 1. LV	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY/OFFSHORE LOCATION	DATE	OWNER
2.	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.
3.	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
					MILEAGE						211
					Pump	1				(187)	179
SA	820-1710				FL 7 31	1		54			55
40	811-11022				WST 112	5		520		4410	22050
20	890-105 2				WST 112	1					14 530

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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.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE
 X *Sam C. ...*

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE
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	2145100
FROM CONTINUATION PAGE(S)	687741
SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	4122111

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) X

HALLIBURTON OPERATOR/ENGINEER _____ EMP # _____ HALLIBURTON APPROVAL _____

w/39% disc 5442.98

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.

CUSTOMER **PHILLIPS 66** WELL NO. **3HI** LEASE **R.T. BRAVING, U.S. SURFACE CSG.** TICKET NO. **574527**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBQ) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	1400							Called out ready 1000
	1700							oil lost still drilling
	2100							START CSG IN HOLE DIDNT GO TRIP OUT DRILL BACK T BT FM
								START CSG AGT DIDNT GO DRILL BACK T BT FM
	0230							START CSG
	0415							Hook up HEAD & CIRCULATE
	0425							CIRCULATE TO P.T. - MEETING
	0440							Hook up to casing line
	0454	7	55			150		START LEAD CRT 12 3'
	0502	8	35			200		START TAIL CRT 14 5"
	0506	0	0			0		SHUT DOWN DRIP PLUG
	0510	5.5	27.5			40		START DISPLACEMENT H ₂ O
	0515	1	37.5			200/300		SLOW RATE DOWN 37.5 GAL
	0525					500		PLUG LANDED - SHUT IN
	0530							JOB OVER
								THANK YOU FOR CALLING HALLIBURTON ENERGY SERVICES LIBERAL KS. TIM BROADFOOT & CREW HAPPY HOLIDAYS
								AVG LEAD RATE 7 AVG TAIL RATE 8 AVG DISPLACEMENT RATE 3.2
								AVG LEAD PRESSURE 150 AVG TAIL PRESSURE 200 AVG DISPLACEMENT PRESSURE 380
								CMT TO P.T IS 800 415/6

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APR 26 1994

CONSERVATION DIVISION
WICHITA, KS



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATIONMILD CONCRETE
LIBERAL KS

BILLED ON TICKET NO

574527

WELL DATA

FIELD _____ SEC. 8 TWP 25S RNG. 38W COUNTY KEARNY 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	N	27	8 1/2	K2	637	
LINER						
TUBING						
OPEN HOLE			12 1/4 KB	637		SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>12-14-93</u>	DATE <u>12-14-93</u>	DATE <u>12-14-93</u>	DATE <u>12-14-93</u>
TIME <u>1400</u>	TIME <u>1800</u>	TIME <u>0454</u>	TIME <u>0530</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
BROANANT	D464	LIBERAL Ks.
T. DAVIS	F4550	" "
MARIN	F4549	HUGHTON Ks.

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		A
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS S-Y 8 1/8	3	W
BOTTOM PLUG		
TOP PLUG 5W	1	
GRIND HONING WHEEL 12B	1	
PACKER		
OTHER		

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. °API
 DISPL. FLUID _____ DENSITY _____ LB/GAL. °API
 PROP. TYPE _____ SIZE _____ LB.
 PROP. TYPE _____ SIZE _____ LB.
 ACID TYPE _____ GAL. _____ %
 ACID TYPE _____ GAL. _____ %
 ACID TYPE _____ GAL. _____ %
 SURFACTANT TYPE _____ GAL. _____ IN
 NE AGENT TYPE _____
 FLUID LOSS ADD. TYPE KANSAS CORPORATION COMMISSION
 GELLING AGENT TYPE _____ GAL.-LB. _____ IN
 FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN
 BREAKER TYPE APR 26 1994 GAL.-LB. _____ IN
 BLOCKING AGENT TYPE _____ GAL.-LB. _____
 PERFPAC BALLS TYPE CONSERVATION DIVISION WICHITA, KS
 OTHER _____
 OTHER _____

DEPARTMENT CEMENT
 DESCRIPTION OF JOB CAT 5 1/2 SUELL QSG.
 JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
 CUSTOMER REPRESENTATIVE X
 HALLIBURTON OPERATOR JC Buehner COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK	MIXED LBS./GAL.
1	150	PREM PLUS		B	2% C.C. - 1/4" Floca	2.06	12.3
1	150	PREM PLUS		B	2% C.C. - 1/4" Floca	1.32	14.8

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____
 BREAKDOWN _____ MAXIMUM _____
 AVERAGE _____ FRACTURE GRADIENT _____
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____
 HYDRAULIC HORSEPOWER _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET 44.45 REASON SHOE JT

SUMMARY

VOLUMES

PRESLUSH: BBL.-GAL. _____ TYPE _____
 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISP: BBL.-GAL. 37.5
 CEMENT SLURRY: BBL.-GAL. 25-35
 TOTAL VOLUME: BBL.-GAL. _____

REMARKS

15 BBL. CEMENT P.T.
41 - K

CUSTOMER: _____ LEASE: _____ WELL NO.: _____ JOB TYPE: _____ DATE: 12-14-93



HALLIBURTON ENERGY SERVICES

FORM 1908 R-13

CHARGE TO: Accounting
 ADDRESS: 3220 W. 11th St
 CITY, STATE, ZIP CODE: Wichita, KS 67202

COPY

TICKET

No. 574527 - 8

PAGE 1 OF 2

1. SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY/OFFSHORE LOCATION	DATE	OWNER
1. <u>13110 KS</u>	<u>1112</u>	<u>1112</u>	<u>1112</u>	<u>KS</u>	<u>1112</u>	<u>12/1/93</u>	<u>FMCO</u>
2.	TICKET TYPE	NITROGEN JOB?	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.
	<input checked="" type="checkbox"/> SERVICE	<input type="checkbox"/> YES	<u>1112</u>	<u>1112</u>	<u>1112</u>		
3.	<input checked="" type="checkbox"/> SALES	<input type="checkbox"/> NO					
4.	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION		
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<u>1112</u>					MILEAGE	<u>84</u>	<u>1</u>	<u>UN</u>	<u>1</u>	<u>2.50</u>	<u>210</u>
<u>1112</u>					<u>1112</u>	<u>63</u>	<u>1</u>	<u>UN</u>	<u>1</u>	<u>8.25</u>	<u>525</u>
<u>1112</u>					<u>1112</u>	<u>89</u>	<u>1</u>	<u>UN</u>	<u>1</u>	<u>1.50</u>	<u>133</u>
<u>4</u>	<u>1112</u>				<u>1112</u>	<u>11</u>	<u>3</u>	<u>EA</u>	<u>12</u>	<u>21</u>	<u>21</u>
					<u>1112</u>	<u>1</u>	<u>1</u>	<u>UN</u>	<u>1</u>	<u>4</u>	<u>4</u>

RECEIVED
 KANSAS CORPORATION COMMISSION
 APR 26 1994
 SURVEY 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 checked="" type="checkbox"/> RUN		AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	<u>1461</u>
CUSTOMER OR CUSTOMER'S AGENT SIGNATURE	TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				FROM CONTINUATION PAGE(S)	<u>317</u>
<u>X</u>	BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?					
DATE SIGNED	TIME SIGNED	<input checked="" type="checkbox"/> A.M. <input type="checkbox"/> P.M.	OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
<u>12</u>	<u>11</u>		WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
I <input type="checkbox"/> do <input type="checkbox"/> do not require IPC (Instrument Protection). <input type="checkbox"/> Not offered		TUBING SIZE	TUBING PRESSURE	WELL DEPTH	ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO	SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	<u>542.61</u>
	TREE CONNECTION	TYPE VALVE	<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
	<u>X</u>			<u>w/39% disc. 3260.69</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.