

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

Operator: License # 5208
Name: Mobil Oil Corporation
Address P.O. Box 2173
2319 North Kansas Avenue
City/State/Zip Liberal, KS 67905-2173

Purchaser: _____

Operator Contact Person: Rae Kelly **KCC**
Phone (316) 626-1160

Contractor: Name: Cheyenne Drilling **FEB 21**
License: 5382 **CONFIDENTIAL**

Wellsite Geologist: W. H. Jamieson

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:

Operator: _____ **RECEIVED**
Well Name: _____ **STATE CORPORATION COMMISSION**
Comp. Date _____ Old Total Depth 29 3/4
2-22-94 Conv. to Inj/SWD
 Deepening Re-perf. **CONSERVATION DIVISION**
 Plug Back **Wichita, Kansas**
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____
10-30-93 Spud Date 11-01-93 Date Reached TD 11-20-93 Completion Date

API NO. 15- 189-21588-00-00
County Stevens
SE - NE - NE - NW Sec. 1 Twp. 34S Rge. 36 X W
4698.5FSL Feet from SW (circle one) Line of Section
2736.2FEL Feet from EW (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)
Lease Name Mills #1 Unit Well # 2
Field Name Hugoton
Producing Formation Chase
Elevation: Ground 3032.9 KB 3045
Total Depth 2950 PBDT 2950
Amount of Surface Pipe Set and Cemented at 830' Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set NA Feet
If Alternate II completion, cement circulated from NA
feet depth to NA w/ NA sx cmt.

Drilling Fluid Management Plan 4-21-94 CB
(Data must be collected from the Reserve Pit)

Chloride content 9000 ppm Fluid volume 1800 bbls
Desalting method used Evaporation
Location of fluid disposal if hauled offsite:
RELEASED
Operator Name NA
Lease Name NA License No. MAY 24 1995
Quarter NA Sec. NA Twp. NA S Rng. NA E/W
County NA Docket No. NA
FROM CONFIDENTIAL

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 and correct to the best of my knowledge.

Signature R. Kelly R. Kelly
Title ER Technician Date _____
Subscribed and sworn to before me this 21st day of February, 19 94.
Notary Public Sharon A. Cook Sharon A. Cook
Date Commission Expires October 1, 1994

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

BEW94086.RK

SHARON A. COOK
NOTARY PUBLIC
STATE OF KANSAS
My Comm. Exp. 10-1-94

PI

SIDE TWO

Operator Name Mobil Oil Corporation Lease Name Mills #1 Unit Well # 2

Sec. 1 Twp. 34S Rge. 36W East West
 County Stevens

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	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample <table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Datum</th> </tr> </thead> <tbody> <tr> <td>Glorietta</td> <td>1232</td> <td>1420</td> </tr> <tr> <td>Stone Corral</td> <td>1708</td> <td>1772</td> </tr> <tr> <td>Sumner</td> <td>2282</td> <td>2664</td> </tr> <tr> <td>Chase</td> <td>2664</td> <td>---</td> </tr> </tbody> </table>	Name	Top	Datum	Glorietta	1232	1420	Stone Corral	1708	1772	Sumner	2282	2664	Chase	2664	---
Name	Top		Datum														
Glorietta	1232		1420														
Stone Corral	1708		1772														
Sumner	2282	2664															
Chase	2664	---															
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: Dual Induction Laterolog Neutron II Log Resistivity Log																	

CASING RECORD <input 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 Casing	12 1/4"	8 5/8"	24#	830	Class C	200	Howco Light 3% CACL2
					Class C	200	2% CACL2
Production Casing	7 7/8"	5 1/2"	14#	2950	Class C	300	3% Econolite

ADDITIONAL CEMENTING/SQUEEZE RECORD				
		Class C	150	2% CACL2
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 checked="" 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 SPF	2792-2802		Acidize: 1000 gals 7.5% HCL Frac'd: w/309 bbls and 28,000# sand.
	2782-2792			
4 SPF	2732-2742	2666-2674	Acidized: w/1500 gals 7.5% HCL	
	2702-2710		Frac'd: w/440 bbls and 15,000# sand.	

TUBING RECORD		Size <u>None</u>	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. 1-11-94			Producing Method <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 300 Mcf	Water -- Bbls.	Gas-Oil Ratio --	Gravity --

Disposition of Gas: **METHOD OF COMPLETION** Production Interval 2666-2802

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
 (If vented, submit ACO-18.) Other (Specify) _____

WELL DATA

FIELD _____ SEC. 1 TWP. 34S RNG. 36W COUNTY STEVENS STATE KS

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

PRESENT PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>N</u>	<u>24</u>	<u>85/8</u>	<u>K3</u>	<u>838</u>	
LINER						
TUBING						
OPEN HOLE			<u>12 1/4</u>	<u>K3</u>	<u>837</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

CONFIDENTIAL

ORIGINAL

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		<u>Competition</u>
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG	<u>Halliburton 85/8</u>	<u>1</u>
HEAD		
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>10-30-93</u>	DATE <u>10-30-93</u>	DATE <u>10-30-93</u>	DATE <u>10-30-93</u>
TIME <u>1836</u>	TIME <u>2045</u>	TIME <u>2200</u>	TIME <u>2400</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>B. Saubor 64781</u>	<u>110048</u>	<u>Liberal</u>
<u>K. Kinsinger C1393</u>	<u>RCM 75496</u>	<u>Liberal</u>
<u>S. Martin F4549</u>	<u>Bulk 50506-75817</u>	<u>Hugoton</u>

KCC

FEB 21

CONFIDENTIAL

RELEASED

MAY 24 1995

FROM CONFIDENTIAL

DEPARTMENT Cement-85/8 surface CSG

DESCRIPTION OF JOB Cement 85/8 surface CSG

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. _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

RECEIVED
STATE CORPORATION COMMISSION
FEB 22 1994

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

CUSTOMER REPRESENTATIVE X Bill Fauler

HALLIBURTON OPERATOR Bill Fauler COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>200</u>	<u>Prem Plus</u>	<u>LTWT</u>	<u>B</u>	<u>3% cc 1/4" Flocc</u>	<u>1.97</u>	<u>12.4</u>
	<u>200</u>	<u>Prem Plus</u>		<u>B</u>	<u>3% cc 1/4" Flocc</u>	<u>1.30</u>	<u>14.8</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL.-GAL. 5 TYPE FW

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

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL.: BBL.-GAL. 50.3

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN. _____ CEMENT SLURRY: BBL.-GAL. 701 lead 47 tail

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

REMARKS

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 47 REASON Requested for shoe

Shut in HE-01 manifold - no flow

CUSTOMER

CUSTOMER: Mobil Oil Corp
LEASE: Mills
WELL NO: 1-2
JOB TYPE: 85/8 Surface
DATE: 10-30-93

CUSTOMER MOB. Oil Corp WELL NO. 1-2 LEASE mills JOB TYPE Surface TICKET NO. 549239

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1840							called out
	2045							ON LOC Rig Running CSG
	2208							CSG on bottom
	2215							circulate w/rig
	2234							Hook Truck
	2236	3	5				100	FW spacer
	2240	70					250	mix lean cement
	2252	47					250	mix Tail Cement
	2300						0	Drop Plug
	2301						200	start DISP CONFIDENTIAL
	2310	1.5	40				400	Slow Rate
	2319	.5	50.5				510	Plug Down
	2319							Shut in manifold no float
	2320						0	Release pressure to truck
								KCC
								FEB 21
								CONFIDENTIAL Job Complete
								Thank you For calling Halliburton
								Bill Gault and crew
								RECEIVED
								STATE CORPORATION COMMISSION
								FEB 22 1994
								RELEASED
								CONSERVATION DIVISION
								Wichita, Kansas
								MAY 24 1995
								FROM CONFIDENTIAL



CHARGE TO:
 mobil Oil Corporation
 ADDRESS
 PO Box 2173
 CITY, STATE, ZIP CODE
 Liberal Kansas 67905

COPY

TICKET

No.

549239-9

PAGE 1 OF 2

FORM 1906 R-12

SERVICE LOCATIONS 1. Liberal 2. Husoton	WELL/PROJECT NO. 1-2	LEASE mills	COUNTY/PARISH STEVENS	STATE KS	CITY/OFFSHORE LOCATION	DATE 10-30-93	OWNER Same
TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR Cheyenne Drig Cheyenne #4	RIG NAME/NO. Cheyenne #4	SHIPPED VIA TRK	DELIVERED TO Location	ORDER NO.	
WELL TYPE 02	WELL CATEGORY 01	JOB PURPOSE 010 8 5/8 surface	WELL PERMIT NO.	WELL LOCATION			
REFERRAL LOCATION	INVOICE INSTRUCTIONS ZAXX-09-01-01						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	U/M	QTY.	U/M		
000-117						MILEAGE Pump Track	60	mi			2.75	165.00
001-016						Pump Charge	838	FT				825.00
030-018						TOP Plug 5W	1	sq				130.00
FROM CONFIDENTIAL MAY 24 1995 RELEASED RECEIVED FEB 21 1994 CONFIDENTIAL KGC FEB 21 CONFIDENTIAL ORIGINAL CONFIDENTIAL												

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 <i>[Signature]</i> DATE SIGNED 10-30-93 TIME SIGNED 2200 <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 AGREE <input checked="" type="checkbox"/> UN-DECIDED <input type="checkbox"/> DIS-AGREE <input type="checkbox"/>			PAGE TOTAL 1120.00 FROM CONTINUATION PAGE(S) 4465.32 SUB-TOTAL 5585.32 APPLICABLE TAXES WILL BE ADDED ON INVOICE
	TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? <input checked="" type="checkbox"/>			
	BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS? <input checked="" type="checkbox"/>			
	TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY? <input checked="" type="checkbox"/>			
TUBING SIZE	TUBING PRESSURE	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? <input checked="" type="checkbox"/>			
TREE CONNECTION	TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			<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) <i>D. Briggs</i>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) X <i>[Signature]</i>	HALLIBURTON OPERATOR/ENGINEER <i>Bill Jauber</i>	EMP # 64781	HALLIBURTON APPROVAL

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.

WELL DATA

FIELD Hugoton SEC 1 TWP 34S RNG 36W COUNTY Stevens 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	14	5 1/2	KB	2959	
LINER						
TUBING	U	24	8 7/8	2B	830	
OPEN HOLE			7 7/8	830	2950	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>11-2-93</u>	DATE <u>11-2-93</u>	DATE <u>11-2-93</u>	DATE <u>11-2-93</u>
TIME <u>11:30</u>	TIME <u>13:00</u>	TIME <u>17:12</u>	TIME <u>18:15</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>R Taylor</u>	<u>40078</u>	<u>Liberal</u>
<u>L Williams</u>	<u>52938</u>	<u>Liberal</u>
<u>H Tedder</u>	<u>50937</u>	<u>Hugoton</u>
<u>No Driller</u>	<u>3856</u>	<u>Hugoton</u>
	<u>6612</u>	<u>Hugoton</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
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 _____ 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 _____

CONFIDENTIAL

FEB 21

CONFIDENTIAL

DEPARTMENT Cement

DESCRIPTION OF JOB 5 1/2 Pad

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

CUSTOMER REPRESENTATIVE X McConaught

HALLIBURTON OPERATOR R Taylor 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>300</u>	<u>Premix +</u>	<u>C</u>	<u>B</u>	<u>3% Fensholt, 2% D.P.P., 2.5% H.F. Scales</u>	<u>2.70</u>	<u>115</u>
<u>2</u>	<u>150</u>	<u>Premix +</u>	<u>C</u>	<u>A</u>	<u>10% M. Mercant, 8% H.H. 9, 5% S.F. 3, 2% C.C.</u>	<u>1.47</u>	<u>142</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL.-GAL. 20 TYPE water

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

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 71

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN. _____ CEMENT SLURRY: BBL.-GAL. 193

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. 274

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 114 REASON Shut In

REMARKS

See Job Log

CUSTOMER: McConaught
LEASE: Liberal
WELL NO.: 1-2
JOB TYPE: 5 1/2 P.D.
DATE: 11-2-93

JOB LOG FORM 2013 R-4

 DATE: 11-2-93
 PAGE NO.: 1

 CUSTOMER: Mob. 101
 WELL NO.: 1-2
 LEASE: M. 116
 JOB TYPE: 5 1/2 Prod.
 TICKET NO.: 549215

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	11:30							Called out
	13:00							ON location, rig L.D.D.P
	13:30							Softly meeting, Set up Co Tit
	15:00							Start casing
	16:00							Casing on bottom
	16:30							hook up iron, rig circulating
	19:00							hook up iron, Co Tit.
	19:12	6	20				200	Start water ahead
	19:15	6	144				120	Start lead cement
	19:40	5	39				120	Start Tail Cement
	19:48							Shot down, Wash pumps & lines
	17:52							Dead Sw Top Plug cement
	17:54	5	45				100	Start water displacement
	18:03	5	16				250	Cement Circulated to surface
	18:07	3	10				200	Slowed rate
	18:09						250	Plug landed
	18:09						1200	Pressured up
	18:10						6	released pressure, float held
	18:15							Job Complete
								Thanks for calling Halliburton Richard Crew

ORIGINAL

KCC

FEB 21

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 RECEIVED
 STATE CORPORATION COMMISSION

FEB 22 1994

 CONSERVATION DIVISION
 Wichita, Kansas

RELEASED

MAY 24 1995

FROM CONFIDENTIAL