

SIDE ONE

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

API NO. 15- 009-24,454 ✓

County Barton ✓

W/2 W/2 W/2 Sec. 7 Twp. 20 Rge. 11 X East West

2471' ✓ Ft. North from Southeast Corner of Section

4941' ✓ Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

Lease Name Koch ✓ Well # 1

Field Name Chase-Silica

Producing Formation Arbuckle

Elevation: Ground 1786' KB 1790'

Total Depth 3332' PBDT

Operator: License # 6039

Name: L. D. Drilling, Inc

Address RR 1 Box 183 B

Great Bend, Kansas 67530

City/State/Zip

Purchaser: Clear Creek

Operator Contact Person: L. D. Davis

Phone (316) 793-3051

Contractor: Name: VAL Energy, Inc.

License: 5822

Wellsite Geologist: Todd Morgenstern

Designate Type of Completion

X New Well Re-Entry Workover

X Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If ~~CMO~~ old well info as follows:

Operator:

Well Name:

Comp. Date Old Total Depth

Drilling Method:

X Mud Rotary Air Rotary Cable

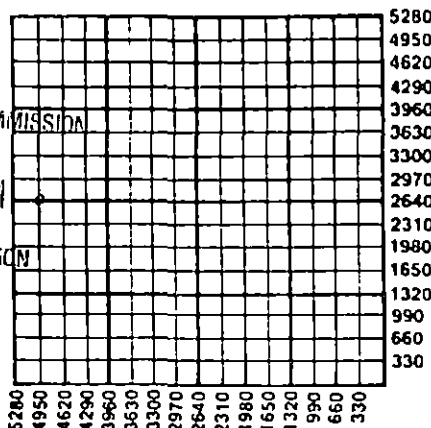
1-02-91 1-07-91 1-10-91

Spud Date Date Reached TD Completion Date

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Wichita, Kansas



Amount of Surface Pipe Set and Cemented at 310' Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set Feet

If Alternate II completion, cement circulated from

feet depth to w/ sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 L. D. Davis L. D. Davis

Title President Date 5-28-91

Subscribed and sworn to before me this 28 day of May, 19 91.

Notary Public Bessie M. DeWerff

Bessie M. DeWerff

Date Commission Expires 5-20-93

K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached

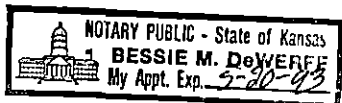
C Wireline Log Received

C Drillers Timelog Received

✓ Distribution

KCC SWD/Rep NGPA

KGS Plug Other (Specify)



SIDE TWO

Operator Name L. D. Drilling, Inc. Lease Name Koch Well # 1
 Sec. 7 Twp. 20S Rge. 11 East County Barton 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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets.) Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Submit Copy.) DST #1 <u>3305-3332</u> <u>Arbuckle</u> Times <u>45-45-45-45</u> Blow: 1st open: off bb in 30 min. 2nd open: weak blow bldg for 4" Recovery: 50' cgo, 100' ho&gcm, 60' gip IFP: 91-91 FFP: 102-102 ISIP: 1097 FSIP: 1097	<p style="text-align: center;">Formation Description</p> <p style="text-align: center;"><input type="checkbox"/> Log <input checked="" type="checkbox"/> Sample</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Bottom</th> </tr> </thead> <tbody> <tr><td>Anhy</td><td>554-566</td><td>(+1236)</td></tr> <tr><td>Heebner</td><td>2944</td><td>(-1154)</td></tr> <tr><td>Toronto</td><td>2963</td><td>(-1173)</td></tr> <tr><td>Douglas</td><td>2976</td><td>(-1186)</td></tr> <tr><td>Brown LM</td><td>3068</td><td>(-1278)</td></tr> <tr><td>L. K/C</td><td>3086</td><td>(-1296)</td></tr> <tr><td>B. K/C</td><td>3300</td><td>(-1510)</td></tr> <tr><td>Arbuckle</td><td>3328</td><td>(-1538)</td></tr> <tr><td>RTD</td><td>3332</td><td>(-1542)</td></tr> </tbody> </table>	Name	Top	Bottom	Anhy	554-566	(+1236)	Heebner	2944	(-1154)	Toronto	2963	(-1173)	Douglas	2976	(-1186)	Brown LM	3068	(-1278)	L. K/C	3086	(-1296)	B. K/C	3300	(-1510)	Arbuckle	3328	(-1538)	RTD	3332	(-1542)
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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"	28	310'	60/40 poz	250	2% gel, 3% CC
Production	7 7/8	5 1/2"	14	3329 1/2	60/40 poz	125	18% salt, 5% gilsonite

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	?	150 gals 28% acid DSFE	open hole

TUBING RECORD Size 2 7/8" Set At 3326' Packer At _____ Liner Run Yes No

Date of First Production <u>1-12-91</u>	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
Estimated Production Per 24 Hours	Oil Bbls. <u>21.54</u> Gas Mcf _____ Water Bbls. <u>170</u> Gas-Oil Ratio _____ Gravity _____

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole Perforation Dually Completed Commingled Other (Specify) _____

Production Interval Arbuckle

last 50
sax

HALLIBURTON SERVICES

A Halliburton Company

DALLAS, TX 75395-1046

15.009.24454.0000

ORIGINAL

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
KOCH 1		BARTON		KS	SAME	
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE	
GREAT BEND		VAL ENERGY	CEMENT SURFACE CASING		01/02/1991	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.	
489450	DALE SMITH			COMPANY TRUCK	08342	

L D DRILLING CO
ROUTE 1 BOX 183-B
GREAT BEND, KS 67530

DIRECT CORRESPONDENCE TO:
FIRST OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2050
OKLAHOMA CITY, OK 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	MILEAGE	10	MI	2.35	23.50
		1	UNT		
000-118	MILEAGE SURCHARGE-CEMENT-LAND	10	MI	.40	4.00
		1	UNT		
001-016	CEMENTING CASING	311	FT	480.00	480.00
		1	UNT		
030-503	WOODEN PLUG	8 5/8	IN	59.00	59.00
		1	EA		
504-308	STANDARD CEMENT	150	SK	5.35	802.50 *
506-105	POZMIX A	100	SK	2.79	279.00 *
506-121	HALLIBURTON-GEL 2%	4	SK	.00	N/C *
509-406	ANHYDROUS CALCIUM CHLORIDE	7	SK	26.25	183.75 *
500-307	MILEAGE SURCHARGE-CEMENT MAT.	112.45	TMI	.10	11.25
500-207	BULK SERVICE CHARGE	264	CFT	1.10	290.40 *
500-306	MILEAGE CMTG MAT DEL OR RETURN	112.45	TMI	.75	84.34 *
	INVOICE SUBTOTAL				2,217.74
	DISCOUNT-(BID)				443.54-
	INVOICE BID AMOUNT				1,774.20
	*-KANSAS STATE SALES TAX				55.77
	*-BARTON COUNTY SALES TAX				13.11
	INVOICE TOTAL - PLEASE PAY THIS AMOUNT				\$1,843.08

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CONSERVATION DIVISION
Wichita, Kansas

517500020

TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE. UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED, CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM. IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.



ORIGINAL

TICKET

NO. 091914-9

FORM 1906 R-11

15.009.24454.0000

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

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Halliburton warrants only that the goods, supplies and materials that the same are free from defects in workmanship. It does not warrant that the goods, supplies and materials are fit for any particular purpose or otherwise which extend beyond those stated in the immediately preceding paragraph. It does not warrant that the goods, supplies and materials are free from defects in workmanship or that they will conform to any specifications or standards of any governmental agency or authority. It does not warrant that the goods, supplies and materials are free from defects in workmanship or that they will conform to any specifications or standards of any governmental agency or authority. It does not warrant that the goods, supplies and materials are free from defects in workmanship or that they will conform to any specifications or standards of any governmental agency or authority.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
560-117		1		MILEAGE	10	mi			2.25	22.50
500-118		1		4000 P&H Service	10	hr			4.00	40.00
500-118		1		Pump Service	330	hr			1.50	495.00
500-118		1		5 1/2" Pump	1	hr			52.00	52.00
124	825-205	1		5 1/2" pump	1	hr			167.00	167.00
214	815-1757	1		5 1/2" pump	1	hr			32.00	32.00
257	815-1731	1		1/2" pipe	1	hr			32.00	32.00
40	857-1000	1		5 1/2" pump	3	hr			44.00	132.00

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CONSERVATION DIVISION
Wichita, Kansas

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

B- 702023

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.

X L. D. DOW
CUSTOMER OR HIS AGENT (PLEASE PRINT)

X [Signature]
CUSTOMER OR HIS AGENT (SIGNATURE)

[Signature] HALLIBURTON OPERATOR

HALLIBURTON APPROVAL

CUSTOMER

SUB TOTAL

APPLICABLE TAXES WILL BE ADDED ON INVOICE.



BULK MATERIALS DELIVERY ORIGINAL AND TICKET CONTINUATION

FOR INVOICE AND TICKET NO. 091914

15.009.24454.0000

DATE 1-7-90	CUSTOMER ORDER NO.	WELL NO. AND FARM Koch 1	COUNTY Barton	STATE Ks.
CHARGE TO L.D. Drilling		OWNER Same	CONTRACTOR Val Energy	No. B 917673
MAILING ADDRESS		DELIVERED FROM Gt. Bend, Ks.	LOCATION CODE 25520	PREPARED BY J.M. Sheets
CITY & STATE		DELIVERED TO Location	TRUCK NO. 2656-6605	RECEIVED BY <i>W.R. Belgrave</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT		
		L	D		QTY.	MEAS.	QTY.	MEAS.				
				140 40% Pozmix 60% Cement 2% Gel								
504-308	516.00261	1	b	Standard Cement	84	sk			5.35	449.40		
506-105	516.00286	1	b	Pozmix A	56	sk			2.79	156.24		
506-121	516.00259	1	b	2 Halliburton Gel 2% allowed						NC		
509-968	516.00315	1	b	Salt Blended 18% w/140	1250	lb.			.10	125.00		
509-968	516.00158	1	b	Salt not mixed	400	lb.			.10	40.00		
508-292	70.15573	1	b	Gilsonite lended 5# w/50	250	lb.			.47	117.50		
507-775	516.00144	1	b	Halad 322 Blended .75% w/140	90	lb.			5.95	535.50		
500-307		1	b	Surcharge	71.36				.10	7.14		
				Returned Mileage Charge	TOTAL WEIGHT		LOADED MILES	TON MILES				
				SERVICE CHARGE ON MATERIALS RETURNED			CU. FEET					
500-207		1	b	SERVICE CHARGE			CU. FEET 169		1.10	185.90		
500-308		1	b	Mileage Charge	14,271	TOTAL WEIGHT	10	LOADED MILES	71.36	TON MILES	.75	53.52
No. B 917673		CARRY FORWARD TO INVOICE					SUB-TOTAL		1670.20			

THIS IS NOT AN INVOICE

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STATE CORPORATION COMMISSION
JUN 05 1991
CONSERVATION DIVISION
Wichita, Kansas

CUSTOMER

DISTRICT GREAT BEND DATE 1-7-91

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

WELL NO. 1 LEASE KOEN SEC. 7 TWP. 20 RANGE 11W

FIELD _____ COUNTY BARTON STATE KS. OWNED BY SARVE

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
FORMATION THICKNESS	FROM TO			<u>5/2</u>	<u>0</u>	<u>3330</u>	<u>PERF.</u>
PACKER: TYPE	SET AT						
TOTAL DEPTH	MUD WEIGHT						
BORE HOLE					<u>10</u>	<u>3330</u>	<u>SHOTS/FT.</u>
INITIAL PROD: OIL BPD, H ₂ O BPD, GAS MCF							
PRESENT PROD: OIL BPD, H ₂ O BPD, GAS MCF							

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED SET @ 3330

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STATE CORPORATION COMMISSION

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

- As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED
- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the month following the month in which the invoice is dated. Customer agrees to pay the full amount of the invoice at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer shall pay the collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
 - To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
 - Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
 - Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 - Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
 - That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
 - That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty, or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
 - That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
 - To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
 - That this contract shall be governed by the law of the state where services are performed or materials are furnished.
 - That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

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

SIGNED L.D. Dick CUSTOMER

DATE 1-7-91

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

TIME 0900 A.M. P.M.

CUSTOMER

CUSTOMER
LEASE
WELL NO.
JOB TYPE
DATE

WELL DATA

FIELD _____ SEC. 7 TWP. 22N RNG. 11W COUNTY Polk, Mo. STATE Mo.

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>5 1/2</u>			
LINER						
TUBING						
OPEN HOLE					<u>3022</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLECTOR <u>11500T PLANT</u>	<u>1</u>	<u>Halliburton</u>
FLOAT SHOE <u>11075 5 1/2 1 1/2</u>	<u>1</u>	<u>"</u>
GUIDE SHOE	<u>1</u>	<u>"</u>
CENTRALIZERS	<u>3</u>	<u>"</u>
BOTTOM PLUG		
TOP PLUG	<u>1</u>	<u>"</u>
HEAD <u>P.C.</u>	<u>1</u>	<u>"</u>
PACKER		
OTHER		

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>5/27/91</u>	DATE <u>5/27/91</u>	DATE <u>5/27/91</u>	DATE <u>5/27/91</u>
TIME <u>0600</u>	TIME <u>0700</u>	TIME <u>0745</u>	TIME <u>0900</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL-^oAPI
 DISPL. FLUID _____ DENSITY _____ LB/GAL-^oAPI
 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 _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>M. Johnson 50490</u>	<u>50490</u>	<u>Mo.</u>
<u>R. Golden 15000</u>	<u>15000</u>	<u>Mo.</u>
<u>R.</u>	<u>15000</u>	<u>Mo.</u>

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JUN 05 1991
CONSERVATION DIVISION
Wichita, Kansas

DEPARTMENT 11007
 DESCRIPTION OF JOB Well Head CR
 JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN
 CUSTOMER REPRESENTATIVE X J. J. [Signature]
 HALLIBURTON OPERATOR M. P. [Signature] COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT/SK.	MIXED LBS/GAL.
<u>1st</u>	<u>4000</u>	<u>4000</u>	<u>PORTLAND</u>	<u>2400</u>	<u>18% SACT 20% HOSCHOLD 2%</u>	<u>1.32</u>	<u>14.5</u>
					<u>4000 5000 5000 5000</u>	<u>1.42</u>	<u>14.4</u>

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 14.18 REASON NOSE

SUMMARY

PRESLUSH: BBL-GAL 20 TYPE SACT
 LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____
 TREATMENT: BBL-GAL _____ DISPL: BBL-GAL 81.11
 CEMENT SLURRY: BBL-GAL 17.63 + 12.01 = 30.32
 TOTAL VOLUME: BBL-GAL 3.5300 RHTK

REMARKS

NO NO LOAD PUT TO P.C. [Signature]
NO [Signature]
CONF. ON COLLARS 1-3-91
SET 2' OFF TD

HALLIBURTON SERVICES
JOB LOG

15.009.24454.0000

WELL NO. 1 LEASE KACH TICKET NO. 0900 **ORIGINAL**
 CUSTOMER I. D. DILLG INC. PAGE NO. 1
 JOB TYPE CONT. PUMP OSG DATE 1-4-91

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0100							PAILED OUT
	0300							PAILED OUT RUC 1000000 RUC 1000000
								BREAK CIRC.
	0730	7	0				350	Run select PUC FLUSH
			20					STOP
	0755		0					MIX CONT. Dwell OSG. (12500)
			30.32					STOP select in flush lines
	0802	8 1/2	0				600	REVERSE PUC STOPPED Dwell
		5						slow PUC 3000
	0815		31.11				1000	PUC Dwell
	0845		3.5					Reverse + hold PUC Run Hole 15 SEC. Dwell WASH UP PUC STOP PUC STOP

RECEIVED
STATE CORPORATION COMMISSION

JUN 05 1991

CONSERVATION DIVISION
Wichita, Kansas

[Handwritten signatures and initials]

CUSTOMER