

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. 15-135-23,561-0000

County Ness

NW SE SE Sec. 13 Twp. 16S Rge. 26 X East West

Operator: License # 7200

Name: Scott T. Lutz

Address P. O. Drawer D

City/State/Zip Shell Knob, Missouri 65747

Purchaser: Koch Oil Wichita, Ks

Operator Contact Person: H.L. Maddox

Phone (316) -653-4178

Contractor: Name: Emphasis Oil Operations

License: 8241

Wellsite Geologist: Ron Nelson

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If OWMO: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

4/4/91 4/12/91 5-1-91
Spud Date Date Reached TD Completion Date

990 Ft. North from Southeast Corner of Section

990 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

Lease Name Evel 'B' Well # 1

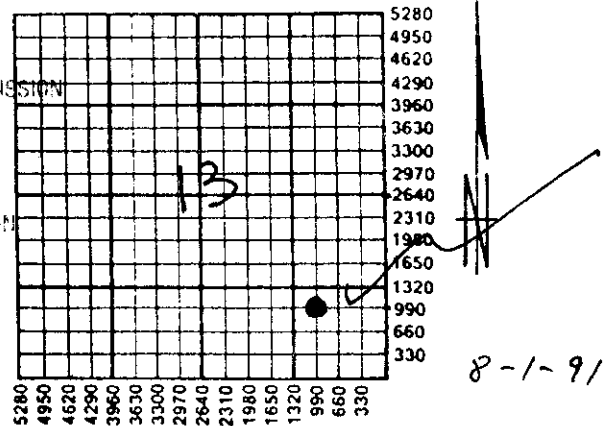
Field Name Arnold SW

Producing Formation Mississippi

Elevation: Ground 2252' KB 2257'

Total Depth 4560' PBD _____

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8-1-91
CONSERVATION DIVISION
Wichita, Kansas



Amount of Surface Pipe Set and Cemented at 264 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 1976 Feet

If Alternate II completion, cement circulated from 1976

feet depth to surface w/ 350 550 sx amt.

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-111 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 [Signature]

Title OPERATOR Date 7-26-91

Subscribed and sworn to before me this 26 day of July, 1991.

Notary Public Linda K. Phillips

Date Commission Expires 9-11-92

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 Scott T. Lutz Lease Name Evel 'B' Well # 1

Sec. 13 Twp. 16S Rge. 26 East West
 County Ness

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 Yes No
 (Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
 (Submit Copy.)

Formation Description		
Name	Top	Bottom
TOP ANHYDRITE	1953	+604
BASE ANHYDRITE	1984	+573
HEEBNER	3839	-1276
TORONTO	3856	-1294
LKC	3883	-1318
BKC	4186	-1621
MARMATON	4235	-1669
PAWNEE	4321	-1756
FT. SCOTT	4390	-1827
CEEROKEE	4414	-1851

CASING RECORD New Used
MISSISSIPPI DOLO 4488 -1924
 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
Prod Casing		5 1/2	15#	4550	60/40	250	
Surface Cas		8 5/8	24#	267	Class A	225	

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
2 spf	4494-4500	treat perms 500 gal	MCA

TUBING RECORD Size 2 / 2 Set At 3/38 4520 Packer At none Liner Run Yes No

Date of First Production 5-7-91 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity
	8	BELS			8	BBLs		

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 _____



BULK MATERIALS DELIVERY AND TICKET CONTINUATION

ORIGINAL
 FOR INVOICE AND
 TICKET NO. **125865**

DATE 4-12-91	CUSTOMER ORDER NO.	WELL NO. AND FARM Evil B-1	COUNTY Ness	STATE Kansas
CHARGE TO Scott Lutz		OWNER Same	CONTRACTOR No. B 904120	
MAILING ADDRESS		DELIVERED FROM Hays, Ks	LOCATION CODE 25525	PREPARED BY Kuhn
CITY & STATE		DELIVERED TO H/E Utica, Ks	TRUCK NO. 0818 0530	RECEIVED BY <i>[Signature]</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
		L	D		QTY.	MEAS.	QTY.	MEAS.			
504-316		2	N	Halliburton Light Cement	350				5.21	1,823	50
				200 Cu. Ft. Pozmix Cement							
504-308	516.00261	2	N	Standard Cement	120				5.45	654	00
506-105	516.00286	2	N	Pozmix 'A'	80				3.00	240	00
506-121	516.00259	2	N	3sk Halliburton Gel							n/a
509-968	516.00215	2	N	Salt Blended	1724	lb			.10	172	40
507-775	516.00144	2	N	Halad-322 Blended	126	lb			6.15	774	90
507-210	690.50871	2	N	Flecole Blended	178	lb			1.30	179	40

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 Wichita, Kansas

		Returned Mileage Charge		TOTAL WEIGHT	LOADED MILES	TON MILES			
500-207	2	N	SERVICE CHARGE				583 CU. FEET	1.15 670 45	
500-307	2	N	Mileage Charge	51,758 TOTAL WEIGHT	28 LOADED MILES	724.612 TON MILES	.80	579 69	
No. B904120			CARRY FORWARD TO INVOICE				SUB-TOTAL		5,094 34

FORM 1911 - R6 REV. 8-85

CUSTOMER



2020 Cont'd BNA FE
FORM 1908-R-11

WELL NO. - FARM OR LEASE NAME B#1 Evcl	COUNTY Ness	STATE Ks	CITY / OFFSHORE LOCATION	DATE 4-12-91
CHARGE TO Scott Lutz	OWNER Some	TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>		NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS	CONTRACTOR Emphases Rig #7	LOCATION 1 Ness City, Ks		CODE 25553
CITY, STATE, ZIP Fayetteville, Ark	SHIPPED VIA Ness City, Ks	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT	LOCATION 2 Hays, Ks	CODE 25525
WELL TYPE 01	WELL CATEGORY 01	WELL PERMIT NO.	DELIVERED TO NW of Ulatka, Ks	LOCATION 3
TYPE AND PURPOSE OF JOB 030	ORDER NO. B-90420		REFERRAL LOCATION	

All consideration, the above-named Customer agrees to pay Halliburton in accordance with the rates and terms stated in Halliburton's current price list. Payment payable NET by the 25th of the following month after date of invoice. Upon Customer's default in payment of Contractor's account, the last day of the month following the month in which the invoice is dated, Contractor agrees to pay interest amount of the highest lawful rate applicable, but not to exceed 18% per annum, on the amount in arrears, in interest on the amount of such 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 whose services are performed or equipment or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defect in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any case of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
000-117		1		MILEAGE 3530	27	mi			2.60	70.20
607-013	001-016	1		Pump Service	1	hr			1365.00	1365.00
007-161		1		Additional Stage	1	ea			1025.00	1025.00
018-315		1		Mud flush	1000	gal			.45	450.00
26	847.16316	1		Insert Valve Float shoe	1	ea	5 1/2	in	245.00	245.00
27	815.17311	1		Fill up Assy	1	ea	5 1/2	in	30.00	30.00
71	813.80300	1		Multiple Stage Cementer	1	ea	5 1/2	in	2450.00	2450.00
75	813.16510	1		Free Fall Plug Set	1	ea	5 1/2	in	439.00	439.00
40	807.93022	1		Centrifuges	3	ea	5 1/2	in	119.00	357.00
320	800.8883	1		Cement Basket	1	ea	5 1/2	in	90.00	90.00

NOT THIS IS AN INVOICE

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AUG 1 1991

CORPORATION DIVISION
WICHITA, KANSAS

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. **B-90420**

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

CUSTOMER OR HIS AGENT (PLEASE PRINT)
Scott Lutz

CUSTOMER OR HIS AGENT (SIGNATURE)
[Signature]

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

[Signature]
HALLIBURTON OPERATOR

[Signature]
HALLIBURTON APPROVAL
CUSTOMER

5044.31

SUB TOTAL

APPLICABLE TAXES WILL BE ADDED ON INVOICE

DISTRICT Hays, Ks DATE 4-12-91

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

WELL NO. B#1 LEASE Evel SEC. 13 TWP. 16 RANGE 26
FIELD _____ COUNTY Ness STATE Ks OWNED BY Simon

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.
CASING		<u>u</u>	<u>14</u>	<u>5 1/2</u>	<u>6L</u>	<u>4558</u>	
LINER							
TUBING							
OPEN HOLE					<u>4558</u>	<u>4560</u>	SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

FORMATION THICKNESS FROM _____ TO _____
PACKER TYPE D.V. SET AT 1965ft
TOTAL DEPTH 4560 MUD WEIGHT _____
BORE HOLE _____
INITIAL PROD. OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF
PRESENT PROD. OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____
TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED

Two-stage long string Bottom stage 200stk 60/40 permix w/ 22qpt
Wash 3-2-1/2 22 qpt 1/2 # Elorate, 500qpt mud flush ahead
Top stage = 350 stk HLL w/ 1/2 # Elorate 500qpt mud flush ahead

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

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

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

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.
- c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. 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.
- d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. 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.
- e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
- f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act to the extent permitted by law.
- g) That this contract shall be governed by the law of the state in which the materials are furnished.
- h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

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

CONSERVATION DIVISION
Wichita, Kansas

SIGNED _____ CUSTOMER
DATE 4-12-91
TIME 7:00 A.M. P.M.

CUSTOMER Scott Lutz
LEASE Cue
WELL NO. B#1
JOB TYPE Two-stage long string

WELL DATA

FIELD _____ SEC. 13 TWP. 16 RNG. 26 COUNTY Ness STATE OK

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 OV Tool SET AT 166ft

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH 4560 ft

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>u</u>	<u>14.0</u>	<u>5 1/2</u>	<u>62</u>	<u>4558</u>	
LINER						
TUBING						
OPEN HOLE				<u>4558</u>	<u>4560</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>4-12-91</u>	DATE <u>4-12-91</u>	DATE <u>4-12-91</u>	DATE <u>4-12-91</u>
TIME <u>05:30</u>	TIME <u>07:30</u>	TIME <u>09:00</u>	TIME <u>14:00</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE <u>Inset</u> <u>5 1/2</u>	<u>1</u>	<u>Howco</u>
GUIDE SHOE		
CENTRALIZERS <u>S-4</u> <u>5 1/2</u>	<u>8</u>	<u>Howco</u>
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER <u>OV</u> <u>5 1/2</u>	<u>1</u>	<u>Howco</u>
OTHER <u>Cmt Bucket</u> <u>5 1/2</u>	<u>1</u>	<u>Howco</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>T. Fuchs</u>	<u>40072</u>	
<u>D. Lemmon</u>	<u>Pickup</u>	<u>Ness City, OK</u>
<u>E. Gomez</u>	<u>3500</u>	
<u>Ash</u>	<u>Comb</u>	<u>Ness City, OK</u>
<u>1/2</u>	<u>OB18</u>	
	<u>Bulk</u>	<u>Hays, OK</u>
	<u>0550</u>	
	<u>Bulk</u>	<u>Hays, OK</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API

DISPL. FLUID _____ DENSITY _____ LB/GAL. API

PROP. TYPE _____ SIZE _____ LB

PROP. TYPE _____ SIZE _____ LB

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

SURFACTANT TYPE _____ GAL. _____ IN

NE AGENT TYPE _____ GAL. _____ IN

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

GELLING AGENT TYPE _____ GAL.-LB. _____ IN

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

BREAKER TYPE _____ GAL.-LB. _____ IN

BLOCKING AGENT TYPE _____ GAL.-LB. _____ IN

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT Cmt

DESCRIPTION OF JOB Two-stage - Long string

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X

HALLIBURTON OPERATOR Scott Lutz

COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>200</u>	<u>60/40</u>	<u>Pemix</u>	<u>B</u>	<u>2 bags 1625 lb 3/20th 322 1/2 #100</u>	<u>1.29</u>	<u>14.4</u>
	<u>350</u>	<u>HCC</u>	<u>Pemix</u>	<u>B</u>	<u>4 # Elcote</u>	<u>1.84</u>	<u>12.7</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH 1000 GAL. TYPE Hand pump

BREAKDOWN _____ MAXIMUM _____ STATE CORPORATION COMMISSION

AVERAGE _____ FRACTURE GRADIENT _____ DISPL. 111.66 GAL.

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____ CEMENT SLURRY: 11761 GAL.

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: 4544 GAL. REMARKS HCC

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 15 REASON shoe joint

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HALLIBURTON SERVICES
JOB LOG

WELL NO. **B #1** LEASE **Euel**

TICKET NO. **125865**

CUSTOMER **Scott Lutz**

PAGE NO. **#1 ORIGINAL**

FORM 2013 R-2

JOB TYPE **Treat Pests**

DATE **4-12-91**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
1	05:00							Called out
	07:30							On location 1 R ₃ layer down D.P
	09:30							Start cag & float equip
								Insert float valve, bit, 7 Centralizers
								on 1 st , 2 nd , 3 rd , 4 th , 5 th , 6 th , 7 th collars
								D.V. Tool set 1960ft on 63 rd collar
								Cut Busher stringer joint 62
	11:20							Cage on bottom - Deep ball
	11:25							Hook up to well head
	11:30							Circulate 1hr & ball then insert
	11:50							Done circulating
	11:53	4	12					500gal mud flush
	11:59	5	46					200skts 60/40 permix
	12:06							Done mixing out
	12:07							Released plug
	12:09							Start displ 6260ft with lines
	12:25	7	111			700		Done w/ displacement
	12:26					1600		Load Plug at 1600
	12:27					0		Released pressure - Float held
	12:30							Dropped bomb
	12:45							Opened D.V.
	12:49	5	20					Pumped 20 bbls mud w/ gal corr
	12:52	4	12					500 gal mud flush
	12:53							350 skts ALC
	1:16	5	117					Done mixing out 4" Flocc
	1:19							Released plug
	12:19							Started displ
	13:30	5	49			1700	1700	Done w/ displ. - Closed D.V.
	13:28							Cut direct circulate - stop bit, but not flush
	13:29							But lost returns last 5 bbls
	13:40							Plugged rat hole w/ 15 skts
	13:50							Plugged mouse hole w/ 10 skts
								Racked up 5 T.C.
	14:00							Job completed
								Thank you - J.L.

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J. Fuchs = 81493
D. Lemmer = 891418
E. Gomez =

D. Ash =

CUSTOMER

JOB SUMMARY

HALLIBURTON DIVISION OKLAHOMA CITY, OK
 HALLIBURTON LOCATION N51 City, KS

ORIGINAL
 FILED ON TICKET NO. 22426

CUSTOMER Scott T. Lutz
 LEASE FUW
 WELL NO. B-1
 JOB TYPE Tool
 DATE 4-23-91

WELL DATA

FIELD _____ SEC. 13 TWP. 16 RNG. 26W COUNTY N51 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 3/2 RTIS SET AT 4470
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 MISC. DATA _____ TOTAL DEPTH 4531 PB

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>0</u>	<u>14</u>	<u>3 1/2</u>	<u>TOP</u>	<u>4531</u>	<u>PB</u>
LINER						
TUBING	<u>u</u>		<u>3 1/2</u>	<u>TOP</u>	<u>4470</u>	
OPEN HOLE						SHOTS/FT.
PERFORATIONS				<u>4491</u>	<u>4500</u>	
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER <u>RTIS 3/2</u>	<u>1</u>	<u>Mudco</u>
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>4-23-91</u>	DATE <u>4-23-91</u>	DATE <u>4-23-91</u>	DATE <u>4-23-91</u>
TIME <u>0630</u>	TIME <u>0800</u>	TIME <u>0810</u>	TIME _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>B. Crosswhite</u>	<u>2653 Tools</u>	<u>Miss Pitt</u>

MATERIALS

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

DEPARTMENT TOOLS

DESCRIPTION OF JOB Run 3/2 RTIS To Test and Treat Perfs

JOB DONE THRU: TUBING CASING ANNULUS TSG/ANN.

CUSTOMER REPRESENTATIVE [Signature]

HALLIBURTON OPERATOR B. Crosswhite COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL-GAL _____ TYPE _____
 BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____
 AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL _____ DISPL: BBL-GAL _____
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL-GAL _____
 ORDERED _____ AVAILABLE _____ TOTAL VOLUME: BBL-GAL _____
 AVERAGE RATES IN BPM _____

RECEIVED
 STATE CORPORATION COMMISSION

AUG 01 1991

REMARKS

See Job Log
THANK-YOU!

HALLBURTON SERVICES
JOB LOG

WELL NO. **B-1** LEASE **Evil**
CUSTOMER **Scott T. Lutz**
JOB TYPE **Acid**

TICKET NO. **125005**
PAGE NO. **1**
DATE **4-23-91**

FORM 2013 R-2

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0630							Called Out
	1000							On Loc. at Rig. Time
	1030		19					PKR UNSIT AT 4500
	1048		19.5					SPOT Acid on Bottom
	1105					500		Pull 1 Joint Sit RTTS at 4470
	1148					500		St. Disp
	1157					1000		Have Loaded 1/2 DBL
						1100		incr PSI To 500 #
								incr PSI To 900 #
								incr PSI To 1000 #
								incr PSI To 1100 #
								UNSET PKR
	1215		19.5					Run 1 Joint and 8' Subs
	1276							SPOT 1 DBL Acid around PKR
								Pull sub! The Bit RTTS at 4470
								St. Disp
								St. To Frac
		1/4				800		1/4 BPM at 500 #
	1238	1/2				1000		incr Rate To 1/2 BPM at 1000 #
	1241	2				1000		incr Rate To 2 BPM at 1000 #
	1243	3				1000		incr Rate To 3 BPM at 1000 #
	1245		34					FLUSH IN
								ISIP = 350
								5 min = vac
								Rollup Tax
	1300							Job Complete
								THANK YOU
								CRAIG RICKS
								RECEIVED
								COMMISSION
								AUG 01 1991

CUSTOMER

HALLIBURTON SERVICES
JOB LOG

WELL NO. **B-1** LEASE **CUCU**
CUSTOMER **SCOTT T. LUTZ**
JOB TYPE **Tool**

TICKET NO. **125826**
PAGE NO. **1 ORIGINAL**
DATE **4-29-91**

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0630							CRANED OUT
	0900							ON LOC. AT REG. TIME
	0910							PICKUP ! MAKEUP TOOLS
								ST. TUBING
								TRY BOTTOM WITH RTTS.
	1025							PER UNSET AT 4300
	1030							SPOT ACID ON BOTTOM
								PULL 1 JOINT
	1045							SET RTTS AT 4470 FT
								TREAT WELL REFER TO TREAT # 125827
	1200							UNSET RTTS.
								RUN 1 JOINT ! 8' SUPS
								SPOT 100L ACID AROUND
								PULL JOINT ! SUPS
	1220							SET RTTS AT 4470'
								TREATED WELL
	1300							FINISH ACID JOB
								RY SWABING
								UNSET RTTS
								MAKE TOOLS
								JOB COMPLETE

THANK-YOU
Gene

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STATE CORPORATION COMMISSION
AUG 01 1991
CONSERVATION DIVISION
Wichita, Kansas

CUSTOMER

ORIGINAL

HALLIBURTON SERVICE

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ATTACH TO INVOICE & TICKET NO. 19372

FORM 1008 H

DISTRICT Hwy. K1

DATE 8-23-91

TO: HALLIBURTON SERVICE YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO SCOTT T. LUTZ (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. B-1 LEASE Curr SEC. 13 TWP. 16 RANGE 26W
FIELD COUNTY Atch STATE Ks. OWNED BY SNAIC

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.
CASING		<u>0</u>	<u>11</u>	<u>5 1/2</u>	<u>TOP</u>	<u>1531</u>	<u>1910</u>
LINER							
TUBING		<u>2</u>		<u>2 3/4</u>	<u>TOP</u>	<u>4470</u>	
OPEN HOLE							SHOTS/FT.
PERFORATIONS					<u>4474</u>	<u>4500</u>	
PERFORATIONS							
PERFORATIONS							

FORMATION FROM TO
 PROCKER TYPE SA RTS SET AT 4470
 TOTAL DEPTH 1000 MUD WEIGHT
 BORE HOLE
 INITIAL PROD. OIL SPD, H₂O SPD, GAS MCF
 PRESENT PROD. OIL SPD, H₂O SPD, GAS MCF

PREVIOUS TREATMENT: DATE TYPE MATERIALS
 TREATMENT INSTRUCTIONS: TREAT THROUGH ANNULAR CASING TUBING ANNULAR HYDRAULIC HORSEPOWER ORDERED
RUN 1/2 RTS TO TRAP AND TEST POINTS.

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

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

a) To pay Halliburton in accordance with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum in the event it becomes necessary to employ attorneys to enforce collection of said account. Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.

b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:

- 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 seepage 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.

c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials nor the results of any treatment or service, nor the accuracy of any chart, interpretation, research analysis, job recommendation or other data furnished by Halliburton. 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.

d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCES. 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.

e) That Customer shall, at his 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 the 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 the replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments, which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.

f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.

g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.

h) That Halliburton shall not be bound by any charges or modifications to this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

STATE COMMERCE COMMISSION

AUG 1 1991

SIGNED [Signature] CUSTOMER

DATE _____

TIME _____ A.M. P.M.

WE CERTIFY THAT THE FEE LISTER COMPLIES WITH THE ACT OF 1980, AS AMENDED, HAS BEEN FORMULATED WITH THE PROVISION OF GOODS AND/OR SERVICES DESCRIBED HEREIN AND IS ACCURATE.

CUSTOMER



TICKET NO. 125827-9 ORIGINAL

FORM 1008-R-11

WELL NO. - FARM OR LEASE NAME B-1 Cucc		COUNTY Neos	STATE Ks	CITY / OFFSHORE LOCATION	DATE 4-23-91
CHARGE TO Scott T. Lutz		OWNER Samc		TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>	NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS		CONTRACTOR Plain's Inc		LOCATION 1 Neos City Ks	CODE 23553
CITY, STATE, ZIP		SHIPPED VIA 3530	FREIGHT CHARGES <input type="checkbox"/> FTD <input type="checkbox"/> COLLECT	LOCATION 2	CODE
WELL TYPE 01	WELL CATEGORY 01	WELL PERMIT NO.	DELIVERED TO Loc	LOCATION 3	CODE
TYPE AND PURPOSE OF JOB 143		ORDER NO.	REFERRAL LOCATION		

An acknowledgment of the above-stated Customer's agreement to pay Halliburton is deemed valid if the same and terms stated in Halliburton's contract price list, business practice MET by the 25th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the 25th of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon at the highest banked commercial rate in effect, but never to exceed 18% per annum, or the amount of the unpaid amount, whichever is greater, until payment in full is received. Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid amount. These terms and conditions shall be governed by the law of the state whose services are performed or equipment or materials are supplied.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTENDS BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
					QTY	MEAS	QTY	MEAS			
200-006		1		MILEAGE 3530	27	mi			2.60	70	20
200-004		1		Pump Unload	1	HR			500	500	00
205-009		1		MCA Acid	500	gal	12	%	1.02	540	00
210-013		1		HAI-85m	1/2	gal			38.00	19	50
219-016		1		FE-1A	2	gal			8.75	17	50
219-505		1		Pon-88	1/2	gal			20.00	10	50

NOT THIS IS AN INVOICE

RECEIVED
STATE CORPORATION COMMISSION
AUG 1 1991
CONSERVATION DIVISION
Wichita, Kansas

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. **B-**

WAS JOB SATISFACTORILY COMPLETED? WAS OPERATION OF EQUIPMENT SATISFACTORY? WAS PERFORMANCE OF PERSONNEL SATISFACTORY? CUSTOMER OR HIS AGENT (PLEASE PRINT) CUSTOMER OR HIS AGENT (SIGNATURE)	WAS COUNTRY WITH THE FULL LABEL OPERATING ACT OF 1988, AS AMENDED HAS BEEN FURNISHED WITHIN THE WORKING AND ON WITH RESPECT TO SERVICE PROVIDED UNDER THIS CONTRACT? <i>Bruce Crossen</i> HALLIBURTON OPERATOR HALLIBURTON APPROVAL CUSTOMER	SUB TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------



TICKET NO. 125826-8 ORIGINAL

FORM 1808 R-11

WELL NO. - FARM OR LEASE NAME B-1 LUTZ		COUNTY NESS	STATE Ks	CITY / OFFSHORE LOCATION	DATE 4-23-91
CHARGE TO SCOTT T. LUTZ			OWNER SNMC	TENURE TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>	INTEREST JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS			CONTRACTOR PLANN'S INC	1 LOCATION NESS CITY KS	CODE 05553
CITY, STATE, ZIP			SHIPPED VIA 36653	FREIGHT CHARGES <input type="checkbox"/> FTD <input type="checkbox"/> OTHER	2 LOCATION
WELL TYPE 01	WELL CATEGORY 01	WELL PERMIT NO.	DELIVERED TO Loc.	3 LOCATION	CODE
TYPE AND PURPOSE OF JOB 195		B-	ORDER NO.	REFERRAL LOCATION	

As distribution, the above-named Customer agrees to pay Halliburton...
Halliburton warrants only title to the products, supplies and materials...
FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTENDS BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
					QTY	MEAS	QTY	MEAS			
100-115		1		MILEAGE 36653	27	mi			1.32	36	45
109-017		1		RTTS	4470	Ft	3/4	in	1255	1255	00
117-000		1		Tubing SUB	1	IN	2 1/2	in	12	12	00

NOT THIS IS AN INVOICE

RECEIVED
STATE CORPORATION COMMISSION

AUG 04 1991

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. **B-**

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

WE CERTIFY THAT THE FOLLOWING DESCRIBED ACT OF THEE, AS ADVISED HAS BEEN COMPLETED WITHIN THE PRODUCTION OF GOODS AND OR SERVICES PURSUANT TO THIS CONTRACT.

Bruce Crosswhite
 HALLIBURTON OPERATOR

HALLIBURTON AFFIRMAL _____
 CUSTOMER

SUB TOTAL _____
 APPLICABLE TAXES WILL BE ADDED ON INVOICE.

DISTRICT HAYS, Ks

DATE 4-23-91

ORIGINAL

YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO SCOTT T. LUTZ (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. A-1 LEASE CUEL SEC. 13 TWP. 16 RANGE 26W

COUNTY HAYS STATE Ks OWNED BY SMC

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	CASING	<u>14</u>	<u>5 1/2</u>	<u>TOP</u>	<u>9531</u>	<u>10</u>
PACKER TYPE	SET AT	LINER					
TOTAL DEPTH	MUD WEIGHT	TUBING	<u>14</u>	<u>2 3/4</u>	<u>TOP</u>	<u>4470</u>	
BORE HOLE		OPEN HOLE					SHOTS/FT.
INITIAL PROD. OIL BPD, H ₂ O BPD, GAS BPD, MCF		PERFORATIONS			<u>4499</u>	<u>9510</u>	
PRESENT PROD. OIL BPD, H ₂ O BPD, GAS BPD, MCF		PERFORATIONS					
		PERFORATIONS					

PREVIOUS TREATMENT: DATE TYPE MATERIALS

TREATMENT INSTRUCTIONS: TREAT THROUGH TUBING ANNULARS CASING TUBING ANNULARS HYDRAULIC HORSEPOWER ORDERED
Treat Pools with 500 gal 15% MCA Acid as directed

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

- As consideration, the above-named Customer agrees. THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED
- a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
 - b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law:
 - 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 unreasonableness 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.
 - c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. 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.
 - d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY-PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether by 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.
 - e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
 - f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
 - g) That this contract shall be governed by the law of the state where services are rendered or materials are furnished.
 - h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

AUG 01 1991

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



JOB SUMMARY

HALLIBURTON DIVISION OKLAHOMA CITY, OK
HALLIBURTON LOCATION Ness City, Ks

ORIGINAL

CUSTOMER Scott T. Lutz
LEASE Curl
WELL NO.
JOB TYPE Acid
DATE 4-23-91

WELL DATA

FIELD _____ SEC. 13 TWP. 16s RNG. 26w COUNTY Ness STATE Ks

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		<u>N</u>	<u>14</u>	<u>5/2</u>	<u>TOP</u>	<u>4331</u>	<u>PO</u>
LINER							
TUBING		<u>U</u>		<u>2 3/4</u>	<u>TOP</u>	<u>4470</u>	
OPEN HOLE							SHOTS/FT.
PERFORATIONS					<u>4444</u>	<u>4500</u>	
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 5/2 RTIS SET AT 4470

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH 4331 PB

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER <u>RTIS 5/2</u>	<u>1</u>	<u>Henco</u>
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>4-23-91</u>	DATE <u>4-23-91</u>	DATE <u>4-23-91</u>	DATE <u>4-23-91</u>
TIME <u>0630</u>	TIME <u>1000</u>	TIME <u>1030</u>	TIME <u>1300</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>R. Conway</u>	<u>3580</u>	<u>Ness City Ks</u>
<u>B. Crosswhite</u>	<u>20113</u>	<u>Ks</u>

MATERIALS

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

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

PROP. TYPE _____ SIZE _____ LB.

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE MCA GAL 500 % 15

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 1/2 gal Pon 14

OTHER 2 gal FC-1A 1/2 gal HMI-63m

DEPARTMENT Acid

DESCRIPTION OF JOB Treat. Perfs with 500 gal 15% MCA Acid

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE [Signature]

HALLIBURTON OPERATOR B. Crosswhite COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./BK.	MIXED LBS./GAL.

PRESSURES IN PSI

SUMMARY

VOLUMES

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

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

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT _____ GAL 12 DISPL _____ GAL _____

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

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME _____ GAL _____

ORDERED _____ AVAILABLE _____ STATE CORPORATION COMMISSION _____ REMARKS _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL _____ CEMENT LEFT IN PIPE AUG 0 1 1991

FEET _____ REASON _____ CONSERVATION DIVISION Wichita, Kansas