

ORIGINAL

SIDE ONE

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

Operator: License # 4689

Name: Thomas C. Lutz

Address P.O. Drawer 0940

City/State/Zip Fayetteville, AR 72701

Purchaser: Koch Oil Wichita, Kansas

Operator Contact Person: H.L. Maddox

Phone (316) 653-4178

Contractor: Name: Red Tiger Drilling

License: 5302

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

4-13-90 4-27-90 6-30-90

Spud Date Date Reached TD Completion Date

API NO. 15- 135-23,450 - 0000

County Ness

SE SE NE/4 Sec. 14 Twp. 16 Rge. 26W East West

2970 Ft. North from Southeast Corner of Section

330 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

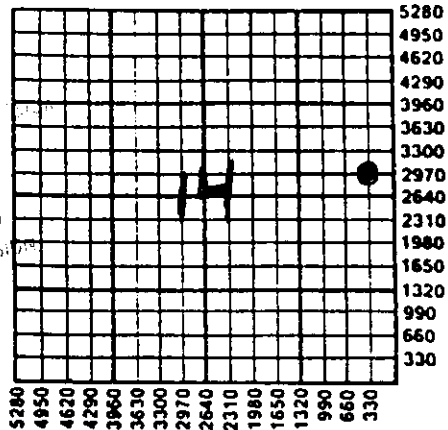
Lease Name Evel "E" Well # 1

Field Name ARNOLD

Producing Formation Mississippi

Elevation: Ground 2543 KB 2548

Total Depth 4590' P8TD _____



Amount of Surface Pipe Set and Cemented at 252 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from GL

feet depth to ~~300~~ 900 w/ ~~200~~ 300 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 Thomas C. Lutz

Title Owner-Operator Date _____

Subscribed and sworn to before me this 13th day of August, 19 90.

Notary Public Patricia K. Franke

Date Commission Expires November 8, 1991

K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached

C Wireline Log Received

C Drillers Time Log Received

Distribution

KCC SMD/Rep NGPA

KGS Plug Other

(Specify)

SIDE TWO

Operator Name Thomas C. Lutz Lease Name Evel "E" Well # 1
 Sec. 14 Twp. 16 Rge. 26W 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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Attach Additional Sheets.) Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.)	<p style="text-align: center;">Formation Description</p> <p style="text-align: center;"><input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample</p> <table 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>ANHYDRITE</td><td>1949</td><td>+599</td></tr> <tr><td>HEEBNER</td><td>3817</td><td>+566</td></tr> <tr><td>TORONTO</td><td>3832</td><td>-1269</td></tr> <tr><td>LKC</td><td>3858</td><td>-1310</td></tr> <tr><td>BKC</td><td>4168</td><td>-1620</td></tr> <tr><td>MARMOTON</td><td>4212</td><td>-1664</td></tr> <tr><td>PAWNEE</td><td>4307</td><td>-1759</td></tr> <tr><td>FT. SCOTT</td><td>4374</td><td>-1826</td></tr> <tr><td>CHEROKEE SHALE</td><td>4400</td><td>-1852</td></tr> <tr><td>MISSISSIPPI DOLO</td><td>4484</td><td>-1936</td></tr> <tr><td>T.D.</td><td>4591</td><td>-2043</td></tr> </tbody> </table>	Name	Top	Bottom	ANHYDRITE	1949	+599	HEEBNER	3817	+566	TORONTO	3832	-1269	LKC	3858	-1310	BKC	4168	-1620	MARMOTON	4212	-1664	PAWNEE	4307	-1759	FT. SCOTT	4374	-1826	CHEROKEE SHALE	4400	-1852	MISSISSIPPI DOLO	4484	-1936	T.D.	4591	-2043
Name	Top	Bottom																																			
ANHYDRITE	1949	+599																																			
HEEBNER	3817	+566																																			
TORONTO	3832	-1269																																			
LKC	3858	-1310																																			
BKC	4168	-1620																																			
MARMOTON	4212	-1664																																			
PAWNEE	4307	-1759																																			
FT. SCOTT	4374	-1826																																			
CHEROKEE SHALE	4400	-1852																																			
MISSISSIPPI DOLO	4484	-1936																																			
T.D.	4591	-2043																																			

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 production	12 1/2	8 5/8	20#	252'	60/40 poz	170	2%gel, 3%cc
	7 7/8	5 1/2	14#	4588'	60/40 poz	200	2%gel, 12%salt, 1%CFR-3

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth
2	4504-06 4490-4500	500 gal Mud Acid

TUBING RECORD Size 2 3/8 Set At _____ Packer At _____ Liner Run Yes No

Date of First Production _____ Producing Method Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil 5 Bbls.	Gas Mcf	Water 5 Bbls.	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 _____

ORIGINAL



REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046

INVOICE

HALLIBURTON SERVICES

A Halliburton Company

INVOICE NO.	DATE
908329	04/13/1990

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
EVEL 'E' 1		NESS		KS	SAME	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
NESS CITY		RED TIGER		CEMENT SURFACE CASING		04/13/1990
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.	
527734	MIKE WAGGONER			COMPANY TRUCK	93517	

THOMAS C. LUTZ
P. O. DRAWER 0940
FAYETTEVILLE, AR 72702

DIRECT CORRESPONDENCE TO:
SUITE 600
COLORADO DERBY BUILDING
WICHITA, KS 67202-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	PRICING AREA - MID CONTINENT MILEAGE	29	MI	2.20	63.80
		1	UNT		
001-016	CEMENTING CASING	252	FT	395.00	395.00
		1	UNT		
030-503	CMTG PLUG LA-11,CP-1,CP-3, TOP	8	5/8 IN	59.00	59.00
		1	EA		
504-308	STANDARD CEMENT	102	SK	5.45	555.90
506-105	POZMIX A	68	SK	2.88	195.84
506-121	HALLIBURTON-GEL 2%	3	SK	.00	N/C
509-406	ANHYDROUS CALCIUM CHLORIDE	4	SK	26.25	105.00
500-207	BULK SERVICE CHARGE	178	CFT	.95	169.10
500-306	MILEAGE CMTG MAT DEL OR RETURN	220.98	TMI	.70	154.69
	INVOICE SUBTOTAL				1,698.33
	DISCOUNT-(BID)				339.65-
	INVOICE BID AMOUNT				1,358.68
	*-KANSAS STATE SALES TAX				40.14
	INVOICE TOTAL - PLEASE PAY THIS AMOUNT				\$1,398.82

RECEIVED
STATE DEPARTMENT OF CONSERVATION

AUG 15 1990

CONSERVATION DIVISION
Wichita Kansas

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 LEGAL 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.

WORK ORDER CONTRACT
AND PRE-TREATMENT DATA

ATTACH TO INVOICE & TICKET NO. **908329**

DISTRICT Hays, KS

DATE 7-13-90

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

WELL NO. #1 LEASE Eupl E SEC. 14 TWP. 16S RANGE 26W

FIELD _____ COUNTY Ness STATE KS OWNED BY SAMP

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
PACKER: TYPE _____ SET AT _____
TOTAL DEPTH 256' MUD WEIGHT _____
BORE HOLE 12 1/4"
INITIAL PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF
PRESENT PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	11	20*	8 5/8	YB	252'	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED _____
Cement casing to surface with 170 yds 40/11 Pbz, 2% sol, 3% C.C.

CUSTOMER OR HIS AGENT WARRANTS THE WELLS 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 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.
 - 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 Tom Luke CUSTOMER
DATE 7-13-90
TIME 11:10 AM P.M.

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.

CUSTOMER

JOB LOG

FORM 2013 R-2

WELL NO. 1 LEASE Euel E TICKET NO. 709329
 CUSTOMER Ann Lutz PAGE NO. 1
 JOB TYPE Constant Surface Casing DATE 7-13-90

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								Call out @ 0930 Ready @ 1200
	1140							In location - Rig pulling D.P. Set up Howro equip.
	1150							Rig start 5 5/8" csug
	1230							Fin running csug. Hook up to circ.
	1235							Rig start circ, csug
	1245							Fin circ csug
								Hook to Howro equip
	1250	5				450		Start mixing 170 SES/60/90 Per,
						550		2% gal, 3% C.C.
	1257		38 3/4			600		Fin mixing cont.
								Release pump top plug
	1259	5				350		Start Displ.
	1302		15.1			400		Fin Displ. - 5 BBL cont. circ to Gt.
	1303					150		chase in @ Head
						0		Release psi @ PT.
	1305							Wash up & Pack up.
	1330							Job complete
								Thank You
								D. Lemman 71718
								B. Crosswhite 89543
								R. Bessant 57220
								Tik 3580 P.
								Tik 51252 P.

CUSTOMER

ORIGINAL



REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046

INVOICE

HALLIBURTON SERVICES

A Halliburton Company

INVOICE NO.	DATE
908492	04/27/1990

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION	STATE	WELL/PLANT OWNER	
EVEL 1 E		NESS	KS	SAME	
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
NESS CITY		RED TIGER	TOP OUTSIDE PRODUCTION CASING		04/27/1990
ACCT NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
527734	KENNY RUPP			COMPANY TRUCK	94167

THOMAS C. LUTZ
P. O. DRAWER 0940
FAYETTEVILLE, AR 72702

DIRECT CORRESPONDENCE TO:
SUITE 600
COLORADO DERBY BUILDING
WICHITA, KS 67202-0000

PRICE REF NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	PRICING AREA - MID CONTINENT MILEAGE	29	MI	2.20	63.80
		1	UNT		
001-016	CEMENTING CASING	4586	FT	1,111.00	1,111.00
		1	UNT		
030-016	CEMENTING PLUG 5W ALUM TOP	5	1/2 IN	47.00	47.00 *
		1	EA		
213-009	MUD FLUSH	500	GAL	.45	225.00
12A	GUIDE SHOE - 5 1/2" BRD THD.	1	EA	104.00	104.00 *
825.205					
24A	INSERT FLOAT VALVE - 5 1/2" BRD	1	EA	83.00	83.00 *
815.19251					
27	FILL-UP UNIT 5 1/2"-6 5/8"	1	EA	30.00	30.00 *
815.19311					
40	CENTRALIZER 5-1/2" MODEL S-4	7	EA	44.00	308.00 *
807.93022					
320	CEMENT BASKET 5 1/2"	1	EA	90.00	90.00 *
800.8883					
504-308	STANDARD CEMENT	120	SK	5.45	654.00 *
506-105	POZMIX A	80	SK	2.88	230.40 *
506-121	HALLIBURTON-GEL 2%	3	SK	.00	N/C *
509-968	SALT	1150	LB	.073	83.95
507-153	CFR-3	84	LB	3.90	327.60 *
500-207	BULK SERVICE CHARGE	217	CFT	.95	206.15 *
500-306	MILEAGE CMTG MAT DEL OR RETURN	271.643	TMI	.70	190.15 *
	INVOICE SUBTOTAL				3,754.05
	DISCOUNT-(BID)				750.81-
	INVOICE BID AMOUNT				3,003.24
	*-KANSAS STATE SALES TAX				77.20
	INVOICE TOTAL - PLEASE PAY THIS AMOUNT				\$3,080.44

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.

DISTRICT Hays, KS

DATE 4-27-90

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

WELL NO. #1 LEASE Evel E SEC. 14 TWP. 16 RANGE 26

FIELD _____ COUNTY Ness STATE KS OWNED BY June

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____ FROM _____ TO _____ Packer: TYPE _____ SET AT _____ TOTAL DEPTH 4586 MUD WEIGHT _____ BORE HOLE _____ INITIAL PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF PRESENT PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	<u>N</u>	<u>14</u>	<u>5 1/2</u>	<u>KB</u>	<u>4534</u>	
LINER						
TUBING						
OPEN HOLE				<u>4584</u>	<u>4586</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED Long string - cont csg w/ 200sk, 60/40 Perm. w/ 200gal 12% salt & 2% CER, Run 500gal 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 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.
- 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 where services are performed 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.

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

SIGNED [Signature] CUSTOMER

DATE 4-27-90 TIME 2:00 A.M. PM

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.

CUSTOMER

WELL DATA

FIELD _____ SEC 14 TWP 16 RNG 26 COUNTY NESS 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 4586

NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>N</u>	<u>2 1/4</u>	<u>5 1/2</u>	<u>KB</u>	<u>4534</u>
LINER					
TUBING					
OPEN HOLE			<u>4584</u>	<u>4586</u>	SHOTS/FT.
PERFORATIONS					
PERFORATIONS					
PERFORATIONS					

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>4-27-90</u>	DATE <u>4-27-90</u>	DATE <u>4-27-90</u>	DATE <u>4-27-90</u>
TIME <u>04:30</u>	TIME <u>14:00</u>	TIME <u>15:30</u>	TIME <u>20:00</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
FLLOAT COLLAR		
FLLOAT SHOE		
GUIDE SHOE <u>Reg 5 1/2"</u>	<u>1</u>	<u>Hawco</u>
CENTRALIZERS <u>5 1/2 5 1/2</u>	<u>1</u>	<u>Hawco</u>
BOTTOM PLUG		
TOP PLUG <u>5-1/2 5 1/2</u>	<u>1</u>	<u>Hawco</u>
HEAD <u>Transport Head/L.H. Plug</u>	<u>1</u>	<u>Hawco</u>
PACKER		
SEAL <u>Cmt Basket 5 1/2</u>	<u>1</u>	<u>Hawco</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 _____

PERFPAC BALLS TYPE _____ QTY _____

OTHER _____

OTHER _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>F. Luck</u>	<u>51145</u>	
<u>R. Carter</u>	<u>Combr</u>	<u>Ness City, Ks</u>
<u>R. Barcas</u>	<u>0818</u>	<u>Hays, Ks</u>

DEPARTMENT Cmt

DESCRIPTION OF JOB Long string

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE [Signature]

HALLIBURTON OPERATOR [Signature] COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF BAGS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./BK.	MIXED LBS/GAL.
<u>1</u>	<u>200</u>	<u>60/40</u>	<u>Pacard B</u>	<u>27 gal</u>	<u>127.50 lb (57.0 CFR)</u>	<u>1.29</u>	<u>14.5</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 _____ REASON shoe joint

SUMMARY

VOLUMES

PREFLUSH med flush TYPE 500 gal

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

TREATMENT: BBL-GAL _____ DISPL BBL-GAL 113

CEMENT SLURRY: BBL-GAL 46

TOTAL VOLUME: BBL-GAL _____

REMARKS

CUSTOMER: Tom Lutz
 LEASE: C-1
 WELL NO: #1
 JOB TYPE: Long string
 DATE: 4-27-90

ORIGINAL

Thomas C. Lutz
Oil Producer
P.O. Drawer 0940
Fayetteville, AR 72702
(501) 443-5430

September 5, 1990

Mr. Dennis Anderson
Kansas Corporation Commission
200 Colorado Derby Building
202 W. 1st Street
Wichita, Kansas 67202-1286

Re: Evel "E" # 1
API # 15-135-23,450
Ness County

Dear Dennis

Please find enclosed the Halliburton cement tickets you have requested concerning the above well.

The back side was cemented with 350 sacks of cement and it was my understanding when I ran the bond log that job was sucessfull.

If further work is needed to be done on this well please contact me so I can schedule same.

Sincerely



Thomas C. Lutz

SEP 10 1990



INVOICE

HALLIBURTON SERVICES

ORIGINAL

A Halliburton Company

910476 05/08/1990

WELL/PLANT/LOCATION		STATE	
WELL # 1		KS SANE	
WELL CITY		DATE	
CHEYENNE		05/08/1990	
CONTRACTOR		JOB PURPOSE	
THOMAS LUTZ		ACIDIZE FORMATION	
ENDOR NO.		CUSTOMER P.O. NUMBER	
		COMPANY TRUCK 94843	

THOMAS C. LUTZ
P. O. DRAWER 0940
FAYETTEVILLE, AR 72702

DIRECT CORRESPONDENCE TO:
SUITE 500
COLORADO DEBBY BUILDING
WICHITA, KS 67202-0000

DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT				
500-005 MILEAGE	28	MI	2.20	61.60
	1	UNT		
500-024 PUMPING SERVICE FIRST 4 HRS	1	PMP	472.00	472.00
	1	EA		
507-003 FE ACID DOUBLE STRENGTH	15	X	.83	12.45
501-004	1000	GAL		
510-011 HAI-85	1	GAL	39.00	39.00
218-505 PEN - 88	1	GAL	41.00	41.00
218-537 3M	3	GAL	21.80	64.50
218-726 AS-7	5	GAL	23.00	115.00
011-105 MISCELLANEOUS PUMPING JOBS	1000	PSI	590.00	590.00
	1	UNT		
504-118 HALLIBURTON LIGHT CEMENT - PREM	350	SK	4.92	1,722.00
509-406 ANHYDROUS CALCIUM CHLORIDE	9	SK	26.25	236.25
507-210 FLOCLE	175	LB	1.23	215.25
500-207 BULK SERVICE CHARGE	358	CFT	.95	340.10
500-305 MILEAGE CNTG NAT DEL OR RETURN	480.893	THI	.70	336.63
INVOICE SUBTOTAL				5,072.83
DISCOUNT-(BID)				1,056.27-
INVOICE BID AMOUNT				4,007.56
*-KANSAS STATE SALES TAX				133.75
INVOICE TOTAL - PLEASE PAY THIS AMOUNT				4,141.31

RECEIVED
STATE OF KANSAS
SEP 10 1990
CONSERVATION DIVISION
Wichita, Kansas

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.

**HARRIBURTON SERVICES
JOB LOG**

WELL NO. **1** F-# **EWJ E** TICKET NO. **910418**
 CUSTOMER **Tom L...** PAGE NO. **1**
 JOB TYPE **...** DATE **5-8-70**

ORIGINAL

FORM 2013 R.2

CHART NO.	TIME	RATE (BPM)	VOLUME (GAL)	PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				INLET	OUTLET	
0630						Called out
0730						on loc. set up tool
0800						Run Sumb
0830	5	81				5500' 1000' D O.S.P.E.
0900	5					3000' Flush
0930			93			hole loaded 93 rd Flush pumped
0945	3					400' 1000' 400' PST
0955	4					550' Jacking hole 9 th 550' PST
0955						650' 153P 450' PST pumped 10 th over hole
						Work off 10 Cyls in 5 min
						hook up tool
0955						Job Complete
						Thank You
						Ray & Larry
1030						back on loc. set wire line plug @
1115						3500' lead hole with salt water
1130						500' flow on Cyl. 500' PST falling
						hang down binder head 1 st
						0' 9 th 1000' PST wait on flow
1155	6					200' Start mixing 350' 100' PCC with
						6 th Flush, 100' PCC
1155	5	80				500' 80 th cyl. pumped enough pass
						500' 500' PST
1205						400' Finished mixing 153P 450' PST. All
						wash & hook up tool
						Job Complete
						Thank You
						Ray

SEP 10 1970

CONSERVATION DIVISION
Wichita, Kansas

R. Lyman Berry, K. Carter Owsen
 5115 PT
 R. Berry 57770 PC 3703 T

CUSTOMER

DISTRICT Hays, Ks

ORIGINAL

DATE 5-8-90

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

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

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME Mississippi TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
PACKER: TYPE _____ SET AT _____
TOTAL DEPTH _____ MUD WEIGHT _____
BORE HOLE _____
INITIAL PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF
PRESENT PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	<u>N</u>	<u>14</u>	<u>5 1/2</u>	<u>GL</u>		
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS				<u>4486</u>	<u>4494</u>	<u>41FT</u>
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED
Treat Perfs with 1,000gal 15% D.S.F.E. with 1gal R-88
3gal 3 N
3gal MS 7
1gal HAL-85
Cont. Back side with 350 gal HLC
1/2" flocc/1sk, 3% CC

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 for:
 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 where services are performed 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.

SEP 10 1990

CONSERVATION DIVISION
Wichita, Kansas

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

SIGNED _____ DATE 5-8-90 CUSTOMER

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 11:0 A.M. P.M.

CUSTOMER

JOB SUMMARY

Wichita, Ks.
Ness City, Mo.

ORIGINAL

BILLED ON TICKET NO. 910478

CUSTOMER: Tom Hitt
LEASE: E-X-I-E
WELL NO.: 31
JOB TYPE: Acid

WELL DATA

FIELD: 2 SEC: 13 TWP: 16 RNG: 26 COUNTY: Ness STATE: Ks.

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		N	14	5 1/2	GL		
LINER							
TUBING							
OPEN HOLE							SHOTS/FT.
PERFORATIONS					4486	4494	4/FT
PERFORATIONS							
PERFORATIONS							

FORMATION THICKNESS FROM TO

INITIAL PROD: OIL BPD. WATER BPD. GAS MCFD

PRESENT PROD: OIL BPD. WATER BPD. GAS MCFD

COMPLETION DATE MUD TYPE MUD WT.

PACKER TYPE SET AT

BOTTOM HOLE TEMP. PRESSURE

MISC. DATA TOTAL DEPTH

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 5-8-90	DATE 5-8-90	DATE 5-8-90	DATE 5-8-90
TIME 0630	TIME 0730	TIME 0847	TIME 0935

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
R. Legator	Comms 5114	Ness City, Mo.
R. Schuler		
R. Brown	Brill 3703	Hwy. 6

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 DSFE GAL 1,000 % 15

ACID TYPE GAL %

ACID TYPE GAL %

SURFACTANT TYPE ASZ GAL 5 IN 1,000

NE AGENT TYPE 3A GAL 5 IN 1,000

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: No. 9

DESCRIPTION OF JOB: IRON PALS

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE: X. Thomas

HALLIBURTON OPERATOR: Roy B. Legator

COPIES REQUESTED

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	30	HLG		B	1/2" Fluocel, 3% CC	1.84	12.7

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 1,000 DISPL: BBL-GAL 109.5

SHUT-IN: INSTANT 5-MIN. 15-MIN. CEMENT SLURRY: BBL-GAL 114.7

HYDRAULIC HORSEPOWER TOTAL VOLUME: BBL-GAL

ORDERED AVAILABLE USED AVERAGE RATES IN BPM

TREATING DISPL. OVERALL CEMENT LEFT IN PIPE

FEET REASON

REMARKS

See Chart + Job Log RECEIVED

Thank You

SEP 10 1990

BULK MATERIALS DELIVERY

AND

TICKET CONTINUATION

ORIGINAL

OR INVOICE AND
TICKET NO.

910478

HALLIBURTON SERVICES

Wichita, Kansas 67202

A Division of Halliburton Company

DATE 5-8-90	CUSTOMER ORDER NO.	WELL NO. AND FARM Wyal 2-2	COUNTY Wass	STATE Kansas
CHARGE TO Tom Lutz		OWNER Same	CONTRACTOR	No. B 848208
MAILING ADDRESS P.O. Drawer 0940		DELIVERED FROM Hays, Ks	LOCATION CODE 50385	PREPARED BY Kahn
CITY & STATE Fayetteville AR 72702		DELIVERED TO N/E Utica, Ks	TRUCK NO. 3705	RECEIVED BY R. Lyles

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
				QTY.	MEAS.	QTY.	MEAS.		
506-118		2 B	Halliburton Light Cement	350				4.98	1,723 00
507-406 000.50012		2 B	Calcium Chloride Blended	89				2.95	256 85
507-210 000.50071		2 B	Flocote Blended	175	10			1.25	215 85
				Returned Mileage Charge		TOTAL WEIGHT		LOADED MILES	
				SERVICE CHARGE ON MATERIALS RETURNED		CU. FEET			
500-207		2 B	SERVICE CHARGE			360		.95	349 60
500-506		2 B	Mileage Charge	35,165	STATE	29		480.895	.70
				TOTAL WEIGHT		TON MILES			
No B 848208		SEP 10 1990				CARRY FORWARD TO INVOICE		SUB-TOTAL	
								2,859 74	

THIS IS NOT AN INVOICE