

ORIGINAL

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- 075-20,423-0000

County Hamilton

C NE/4 Sec. 27 Twp. 21S Rge. 41 X East West

3960 Ft. North from Southeast Corner of Section

1320 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

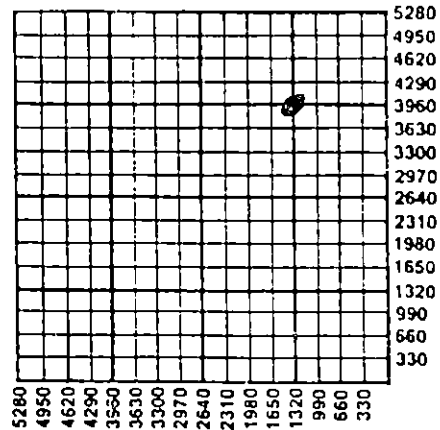
Lease Name HCU Well # 2711-B

Field Name Bradshaw

Producing Formation Winfield

Elevation: Ground 3630 KB

Total Depth 2769 PBDT



Amount of Surface Pipe Set and Cemented at 237 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 237-2728

feet depth to Surface w/ 6255X 175 sx cmt. DPW KCC

Operator: License # 04680

Name: American Exploration Company

Address 2100 NCNB Center

City/State/Zip Houston, Texas 77002

Purchaser: KN Energy

Operator Contact Person: Marty B. McClanahan

Phone (713) 220-8251

Contractor: Name: Cheyenne Drilling Co.

License: 5382

Wellsite Geologist: Gary Oliver

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If **OWNO**: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

9/25/89 9/27/89 2/09/90

Spud Date Date Reached TD Completion Date

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 Marty B. McClanahan

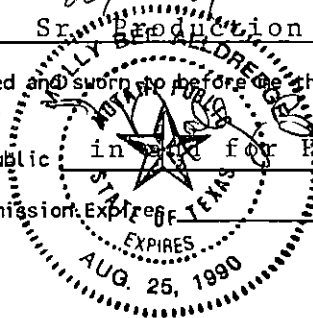
Title Sr. Production Analyst Date 8/07/90

Subscribed and sworn to before me this 9 day of August

19 90

Notary Public Alfred in and for Harris County, Texas

Date Commission Expires _____



K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input type="checkbox"/>	Drillers Timelog Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
		<input type="checkbox"/> NGPA
		<input type="checkbox"/> Other (Specify)

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ORIGINAL

SIDE TWO

Operator Name American Exploration Co. Lease Name HCU Well # 2711-B
 Sec. 27 Twp. 21S Rge. 41 East
 West
 County Hamilton

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

Log Sample

Name	Top	Bottom
Herrington	2200	
Krider	2708	
Winfield	2753	

CASING RECORD New Used
 Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4	8-5/8	24#	237	Class "A"	175	2% CaCl w/ 1/4# Flocele
Production	7-7/8	5-1/2	14 & 15.5#	2725	Halco Lt + Class "A"	525 100	1/4# Flocele

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth
	2758-67	35,000# 12/20 sd. & 12,000 gals. Baragel cross linked H2O

TUBING RECORD Size 2-3/8 Set At 2341 Packer At _____ Liner Run Yes No

Date of First Production 2/9/90 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil ---- Bbls. Gas 51 Mcf Water 30 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 _____



15-075.20423.0000

TICKET NO. 818028-2

ORIGINAL

long string

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME 27-11-B HCU		COUNTY Hamilton	STATE KS	CITY / OFFSHORE LOCATION	DATE 7-26-89
CHARGE TO AMERICAN EXPLORATION		OWNER SAME		TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>	
ADDRESS		CONTRACTOR Cheyenne		NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
CITY, STATE, ZIP		SHIPPED VIA Mexico		LOCATION 1 LAMER 50119	
WELL TYPE 02		WELL CATEGORY 01		FREIGHT CHARGES PPD <input type="checkbox"/> COLLECT <input type="checkbox"/>	
WELL PERMIT NO.		DELIVERED TO LOC		LOCATION 2	
TYPE AND PURPOSE OF JOB 035		ORDER NO.		LOCATION 3	
		B-		REFERRAL LOCATION	

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

Halliburton warrants only 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 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, 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				MILEAGE	65	mi			20	143.00
001-016				PUMP CHG.	2728	FT				927.00
5A	8370680			SUBA SEAL 11 F.S.	1	EA	5 1/2		194.00	194.00
110	407.9302			5-11 CENTRAL 1200	5	EA	5 1/2		44.00	220.00
350	890-10802			weld-A	1	#			11.00	11.00
030.016				TAP	1	EA	5 1/2		46.00	46.00

THIS IS NOT AN INVOICE

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

B- 814882

5492.96

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

X _____
CUSTOMER OR HIS AGENT (PLEASE PRINT)

X _____
CUSTOMER OR HIS AGENT (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.

JM Krum
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL _____
CUSTOMER

SUB TOTAL

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

HALLIBURTON SERVICES
JOB LOG

WELL NO. 27-11-B LEASE HCU TICKET NO. 818028

CUSTOMER AMER. EXP. PAGE NO.

JOB TYPE 5 1/2 L.S. DATE 9-26-89

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	
	19:30							Called out
	22:00							on log
	00:15							5+ Pipe
	02:45	5						Hook up to CIR w/ Rig
	03:15	5	0					500 5+ cmt
	04:00	5	205					400 finish cmt
	04:00							0 DROP PIG
	04:01	5	50					100 wash pump + lines
	04:05	5	0					0 start DISP
	04:40	2	65					1300 finish DISP
								cmt CIR <u>yes</u>
								float did not hold
	04:45		65					400 shut valve

CUSTOMER

HALLIBURTON SERVICES JOB SUMMARY

FORM 2025

HALLIBURTON DIVISION Wichita
HALLIBURTON LOCATION Lamar

BILLED ON TICKET NO. 318028

WELL DATA

FIELD _____ SEC. 27 TWP. 21 RNG. 41 COUNTY Hamilton STATE KS

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
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

CALLER	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>7-26</u> TIME <u>19:30</u>	DATE <u>7-26</u> TIME <u>22:00</u>	DATE <u>7-27</u> TIME <u>00:15</u>	DATE <u>7-27</u> TIME <u>04:40</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>SUPER SEAL</u>	<u>1</u>	<u>HOUCCO</u>
FLOAT SHOE		
GUIDE SHOE	<u>1</u>	<u>HOUCCO</u>
CENTRALIZERS <u>5-11</u>	<u>5</u>	<u>5-11</u>
BOTTOM PLUG		
TOP PLUG <u>FRP</u>	<u>1</u>	<u>11</u>
HEAD		
PACKER		
OTHER <u>WELD</u>	<u>1</u>	<u>11</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>Don Krieter</u>	<u>P.U.</u>	<u>Lamar</u>
<u>Randy Palmer</u>	<u>3801</u>	<u>11</u>
<u>Heriman Skotton</u>	<u>1543</u>	<u>11</u>
<u>Dave McIntire</u>	<u>1147</u>	<u>11</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 CHIT

DESCRIPTION OF JOB CHIT 5 1/2 L.S.

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

CUSTOMER REPRESENTATIVE X Frank Padon

HALLIBURTON OPERATOR Don Krieter COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>525</u>	<u>H&H Std</u>	<u>Idcol</u>	<u>B</u>	<u>1/4#</u>	<u>Flu-cel</u>	<u>1.97</u>	<u>12.4</u>
<u>2</u>	<u>100</u>	<u>NEAT Std</u>	<u>11</u>	<u>B</u>	<u>11</u>	<u>11</u>	<u>1.18</u>	<u>15.6</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

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

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

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 66

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____ CEMENT SLURRY: BBL.-GAL. 205

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. 271

ORDERED _____ AVAILABLE _____ USED _____ REMARKS _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 0 REASON _____

CUSTOMER

CUSTOMER: HIMEX
LEASE: HCH
WELL NO.: 20-11-B
JOB TYPE: 5 1/2 L.S.
DATE: 7-26-98

**BULK MATERIALS DELIVERY
AND
TICKET CONTINUATION**



FOR INVOICE AND TICKET NO. 818028

ORIGINAL

DATE 9-26-89	CUSTOMER ORDER NO.	WELL NO. AND FARM 27-11-B HCU	COUNTY Hamilton	STATE KS.
CHARGE TO American Exploration		OWNER Same	CONTRACTOR Cheyenne	
MAILING ADDRESS		DELIVERED FROM Lamar	LOCATION CODE 50415	PREPARED BY MCINTYRE
CITY & STATE		DELIVERED TO LOC.	TRUCK NO. 1543-6607 4149-5070	RECEIVED BY Krieger

No. **B814882**

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
		L	D		QTY.	MEAS.	QTY.	MEAS.			
504-316				Halliburton Light Cement	525	sks			5.30	2782.50	
504-308				Standard Cement	100	sks			5.90	590.00	
507-210				Flocele 1/4#	156	#			1.27	198.12	
				Returned Mileage Charge	TOTAL WEIGHT	LOADED MILES		TON MILES			
				SERVICE CHARGE ON MATERIALS RETURNED				CU. FEET			
500-207				SERVICE CHARGE				CU. FEET	625 .95	593.75	
500-306				Mileage Charge	57961 TOTAL WEIGHT	65 LOADED MILES		TON MILES	1883.73 .70	1318.61	
No. B 814882				CARRY FORWARD TO INVOICE					SUB-TOTAL		5482.98

THIS IS NOT AN INVOICE

CUSTOMER

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ORIGINAL

ATTACH TO INVOICE & TICKET NO. 716026

DISTRICT LIBERAL

DATE 7-26-89

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO: AMERICAN EXPLORATION (CUSTOMER)
AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 27-11-B LEASE HCH SEC. 27 TWP. 21 RANGE 41

FIELD _____ COUNTY HAMILTON STATE KS OWNED BY SAME

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						
PACKER: TYPE	SET AT						
TOTAL DEPTH	MUD WEIGHT						
BORE HOLE							SHOTS/FT.
INITIAL PROD: OIL _____ BPD, H ₂ O _____ BPD, GAS _____ MCF							
PRESENT PROD: OIL _____ BPD, H ₂ O _____ BPD, GAS _____ MCF							
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED _____

5 1/2" CASING 41' 525 345 HCH
1/4" LB. + LP
100 5+5 1/4" = +10

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

THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

As consideration, the above-named Customer agrees:

- (a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists.
- (b) Halliburton shall not be responsible for and Customer shall secure Halliburton against any liability for damage to property of Customer and of the well owner (if different from Customer), unless caused by the willful misconduct or gross negligence of Halliburton, this provision applying to but not limited to subsurface damage and surface damage arising from subsurface damage.
- (c) Customer shall be responsible for and secure Halliburton against any liability for reservoir loss or damage, or property damage resulting from subsurface pressure, losing control of the well and/or a well blowout, unless such loss or damage is caused by the willful misconduct or gross negligence of Halliburton.
- (d) Customer shall be responsible for and secure Halliburton against any and all liability of whatsoever nature for damages as a result of subsurface trespass, or an action in the nature thereof, arising from a service operation performed by Halliburton hereunder.
- (e) Customer shall be responsible for and secure Halliburton against any liability for injury to or death of persons, other than employees of Halliburton, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole, unless such damage shall be caused by the willful misconduct or gross negligence of Halliburton.
- (f) Halliburton makes no guarantee of the effectiveness of the products, supplies or materials, nor of the results of any treatment or service.
- (g) 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.
- (h) 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 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 responsible for any damages arising from the use of such information except where due to Halliburton's gross negligence or willful misconduct in the preparation or furnishing of it.
- (i) 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 in 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.
- (j) 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.
- (k) This contract shall be governed by the law of the state where services are performed or equipment or materials are furnished.
- (l) 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 _____ CUSTOMER

DATE 7-26-89

TIME 2:30 A.M. 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

Cust. ID _____
Service Location Liberal Houston, Texas 77242-2800

Well No. & Farm H C U 2711-B County Hamilton State Ks Within: City/Offshore Block N.A. Date 9-26-89

Charge To American Exploration Co. Owner Same Contractor Cheyenne Rig 4 Assisting Location N.A.

Address 2100 Republic Bank Ctr Cust. Order No. _____ Referral Loc. N.A. Well Type 01-02 Well Category 01

City, State, Zip Houston TX 77002 Type and Purpose of Job 621 Price Schedule Land

Max. Serv. Depth 2705 Casing Depth _____ Tubing Size N.A. Casing Size 8.62

Drill Bit Size 7.87 Gun Size N.A. Truck/Skid No. 2883 Truck/Skid Type PLS M17

Mud Weight 10.0 Mud Type FM Well Pressure Ø Bottom Hole Temp. 100

Code Ø API Code 15-075-20423 Hole Type OH Previous Ticket: L

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 covered by this invoice.
PAYMENT TERMS: Invoice 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. See Work Order Contract for additional Terms and Conditions.

Price Reference	Secondary Reference	Assist LOC	Description	Depth		Units		Unit Price	Amount	
				From	To	Qty	Meas.			
720500			OH Ser. Chg			1	EA.	1065	1065	00
721840			DSN dep	0	2705	2705	FT	.37	1000	85
721841			DSN op	2705	0	2705		.37	1000	85
722330			GR dep	0	2705	2705		.10	270	50
722331			GR op	2705	0	2705		.10	270	50
722370			Caliper dep	0	2705	2705		.10	270	50
722371			caliper op	2705	0	2705		.12	324	60
720785			IPC			1		100	100	00

Received by Customer: Field Prints () Film () Tape () Book Price 4302 80

Miscellaneous Information _____ Sub Total _____

Applicable Taxes Will Be Added On Invoice

X Frank Pardue
Customer or His Agent (Please Print)
The Above Job Was Satisfactorily Performed X Frank Pardue
Customer or His Agent (Signature)

Engineer/Operator No. 1 _____ Emp. # _____ %
Engineer/Operator No. 2 _____ Emp. # _____ %
District Manager _____

TO: Halliburton Logging Services, Inc., You are hereby requested to furnish equipment and servicemen to deliver and operate the same as an independent contractor to (CUSTOMER) American Explo. Co. and deliver and sell products, supplies and materials for the purpose of performing services as follows:

TYPE OF JOB <u>DSN / Coliper</u>		LOG UNIT NO. <u>2883</u>
WELL NO. <u>2711-B</u>	LEASE <u>HCU</u>	OWNED BY <u>Same</u>

As consideration the above named Customer agrees:

- (a) To pay Halliburton Logging Services, Inc. (Hereinafter "HLS") in accord with the rates and terms stated in HLS' current price schedules.
- (b) To defend, indemnify, release and hold harmless HLS, 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 HLS' negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by HLS or any defect in the data, products, supplies, materials, or equipment of HLS 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 HLS. The term "HLS" as used in said Sections (b) and (c) shall mean HLS, 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, HLS 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 log or chart interpretation, research analysis, job recommendation or other data furnished by HLS. HLS personnel will use their best efforts in gathering such information and their best judgement in interpreting it, but Customer agrees that HLS shall not be liable for and Customer shall indemnify HLS against any damages arising from the use of such information.
- (d) That Customer shall, at its risk and expense, attempt to recover any HLS equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay HLS its replacement cost unless such loss is due to the sole negligence of HLS. If HLS equipment, tools or instruments are damaged in the well, Customer shall pay HLS the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of HLS. 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 HLS' 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 HLS.
- (e) To furnish at its expense any transportation for HLS marine services personnel to and from point of embarkation.
- (f) That HLS 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, EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. HLS' 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 HLS or, at HLS' option, to the allowance to the Customer of credit for the cost of such items. In no event shall HLS be liable for special, incidental, indirect, punitive or consequential damages.
- (g) 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.
- (h) These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.
 - (i) HLS 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 HLS.
 - (j) Customer, or his agent, warrants the well is in proper condition to receive the products, supplies, materials and services.
 - (k) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
- (l) Notwithstanding anything contained herein to the contrary, in the event a logging tool containing a radioactive source or a radioactive source utilized in any other manner by HLS becomes lost or lodged in a well, Customer shall be responsible for meeting all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations concerning retrieval and, if necessary, abandonment of lost or lodged sources and to permit HLS to monitor the recovery efforts.

INSTRUMENT PROTECTION NOT OFFERED ACCEPTED DECLINED

I have read and understand this contract and represent that I am authorized to sign the same as Customer's agent

9-26-89 DATE
16:00 TIME SIGNED
 A.M. P.M.

[Signature]
Customer

DISTRICT Liberal

THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED.

HALLIBURTON SERVICES
Duncan, Oklahoma 73838

TICKET NO. **817938-1**

A Division of Halliburton Company

ORIGINAL

Surface

FORM 1908 R-11

WELL NO. - FARM OR LEASE NAME 27-11 B HCU		COUNTY Hamilton	STATE Ks	CITY / OFFSHORE LOCATION		DATE 9-24-85
CHARGE TO American Exploration		OWNER American Exp		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 Chycum		LOCATION 1 LAMAR		CODE 5041
CITY, STATE, ZIP		SHIPPED VIA Costek		FREIGHT CHARGES PPD <input type="checkbox"/> COLLECT <input type="checkbox"/>		LOCATION 2
WELL TYPE		WELL CATEGORY		WELL PERMIT NO.		DELIVERED TO N. SYRACUSE KS
TYPE AND PURPOSE OF JOB		B-814878		ORDER NO.		REFERRAL LOCATION 3

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

Halliburton warrants only 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 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, 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				MILEAGE	65	mi			2.20	143.00
001-016				Pump Charge	248	ST	8	hrs		395.00
030-SD3				Wooden Plug	1	CA	8 7/8	in		52.00
4D	807.93054			Centralizer S4	1	CA	8 7/8	in		53.00
16A	830.2171			Type M Shoe	1	CA	8 7/8	in		161.00
3SD	870.10802			Halliburton Wildcat	1	CA				11.00

THIS IS NOT AN INVOICE

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. **B-814878** 1731 35

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

CUSTOMER OR HIS AGENT (PLEASE PRINT)
James L. Redburn

CUSTOMER OR HIS AGENT (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

HALLIBURTON APPROVAL _____

-CUSTOMER

SUB TOTAL
2552 35

APPLICABLE TAXES WILL BE ADDED ON INVOICE.



BULK MATERIALS DELIVERY

AND

TICKET CONTINUATION

ORIGINAL

FOR INVOICE AND
TICKET NO.

817938

HALLIBURTON SERVICES

Denver, Colorado 80202

A Division of Halliburton Company

DATE 9-24-89	CUSTOMER ORDER NO.	WELL NO. AND FARM 27-11B HCU	COUNTY Hamilton	STATE KS
CHARGE TO American Expl.	OWNER American Expl.	CONTRACTOR Chapman		No. B814878
MAILING ADDRESS	DELIVERED FROM Lamar, CO	LOCATION CODE 50415	PREPARED BY G.D. MOORE	
CITY & STATE	DELIVERED TO N. SYRACUSE	TRUCK NO. 1020 4169	RECEIVED BY J.P. Moore	

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
		L	D		QTY.	MEAS.	QTY.	MEAS.		
504-308				STANDARD CEMENT	175	KG			590	1032.50
509-406				CALCIUM CHLORIDE	25	KG			29.50	89.50
507-210				1/4" X FLOCS	44	KS			1.27	55.88
THIS IS NOT AN INVOICE										
				Returned Mileage Charge						
				TOTAL WEIGHT		LOADED MILES		TON MILES		
				SERVICE CHARGE ON MATERIALS RETURNED				CU. FEET		
500-207				SERVICE CHARGE				181	.95	171.95
300-306				Mileage Charge	16,814	65		546.76	.70	382.52
				TOTAL WEIGHT		LOADED MILES		TON MILES		
No. B 814878				CARRY FORWARD TO INVOICE				SUB-TOTAL		1731.35

FIELD BRADSHAW SEC. 27 TWP. 216 RNG. 41W COUNTY HAMILTON STATE KS

FORMATION NAME _____ TYPE _____
 FORMATION THICKNESS _____ FROM _____ TO _____
 INITIAL PROD. OIL _____ SPD. WATER _____ SPD. GAS _____ MCFD
 PRESENT PROD. OIL _____ SPD. WATER _____ SPD. GAS _____ MCFD
 COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
 PACKER TYPE _____ SET AT _____
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	20	2 3/8	KB	244	
LINER						
TUBING						
OPEN HOLE			12 1/4	GL	240	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE: <u>Type M</u>	<u>1</u>	<u>Howco</u>
CENTRALIZERS: <u>1/54</u>	<u>1</u>	<u>Howco</u>
BOTTOM PLUG		
TOP PLUG: <u>WOODRUM</u>	<u>1</u>	<u>Howco</u>
HEAD: <u>3/4"</u>	<u>1</u>	<u>Howco</u>
PACKER		
OTHER		

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE: <u>9-24-89</u>	DATE: <u>9-24-89</u>	DATE: <u>9-24-89</u>	DATE: <u>9-24-89</u>
TIME: <u>1620</u>	TIME: <u>1810</u>	TIME: <u>1950</u>	TIME: <u>2010</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
G.D. MOORE		
E. PAINTER	<u>33670</u>	<u>LAMAR, CO</u>
J. CRAWFORD	<u>1959</u>	<u>LAMAR, CO</u>
	<u>1020</u>	
	<u>4669</u>	<u>LAMAR, CO</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB./GAL. API
 DISPL. FLUID _____ DENSITY _____ LB./GAL. API
 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.
 PERFFAC BALLS TYPE _____ QTY.
 OTHER _____

DEPARTMENT CWT

DESCRIPTION OF JOB
CEMENT 8 1/2" 15000 PSI
W/ 175 SR STANDARD
200CC 1/4" SR FLOCC

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

CUSTOMER REPRESENTATIVE X Frank Padua

HALLIBURTON OPERATOR S.D. Myron COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>175</u>	<u>SR2</u>	<u>SR2</u>	<u>Edkal</u>	<u>B</u>	<u>200CC 1/4" SR FLOCC</u>	<u>1.18</u>	<u>15.6</u>

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____
 BREAKDOWN _____ MAXIMUM _____
 AVERAGE _____ FRACTURE GRADIENT _____
 SHUT-IN INSTANT _____ P-MIN. _____ IS-MIN. _____
 HYDRAULIC HORSEPOWER _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET 15 REASON shoe joint

SUMMARY

PRELUSH: BBL.-GAL. _____ TYPE _____
 LOAD & BKDN: BBL.-GAL. _____ PADI BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPLI. BBL.-GAL. 15
 CEMENT SLURRY: BBL.-GAL. 36.7
 TOTAL VOLUME: BBL.-GAL. 31.7

REMARKS
THANK YOU FOR CALLING HALLIBURTON

CUSTOMER NAME: LAMAR, CO
 WELL NO.: 27-110
 JOB TYPE: EXPLORATION
 DATE: 9-24-89

DISTRICT Liberal ORIGINAL DATE 9-24-89

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

WELL NO: 27-11B LEASE HCU SEC 27 TWP 21S RANGE 41W FIELD Bradshaw COUNTY Hamilton STATE KS OWNED BY American Expl

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT:

FORMATION NAME 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

Table with columns: NEW USED, WEIGHT, SIZE, FROM, TO, MAX. ALLOW. P.S.I. Rows include CASING, LINER, TUBING, OPEN HOLE, PERFORATIONS.

PREVIOUS TREATMENT: DATE TYPE MATERIALS

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED Cement 4 1/2 surface w/ 175 SKS Standard 20% Calcium Chloride Flocc

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... b) To defend, indemnify, release and hold harmless Halliburton... c) That because of the uncertainty of variable well conditions... d) That Halliburton warrants only title to the products, supplies and materials... e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment... f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act... g) That this contract shall be governed by the law of the state where services are performed... h) That Halliburton shall not be bound by any changes or modifications in this contract...

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 9-24-89

TIME 12:10 A.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

