

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 # 9262

Name: Lowry Exploration, Inc.

Address Box 1847

City/State/Zip Liberal, KS 67905-1847

Purchaser: Panhandle Eastern Pipeline Co.

Operator Contact Person: Ned Lowry

Phone (316) 624-8141

Contractor: Base: Gabbert & Jones, Inc.

License: 5842 STATE CORPORATION COMMISSION

Wellsite Geologist: _____

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If OWD: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

¹³
10/2/90 Spud Date 10/16/90 Date Reached TD 11/27/90 Completion Date

API NO. 15- 189-21,450-00-00

County Stevens

NW SE SE Sec. 16 Twp. 34 Rge. 37 East West

1250 Ft. North from Southeast Corner of Section

1250 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

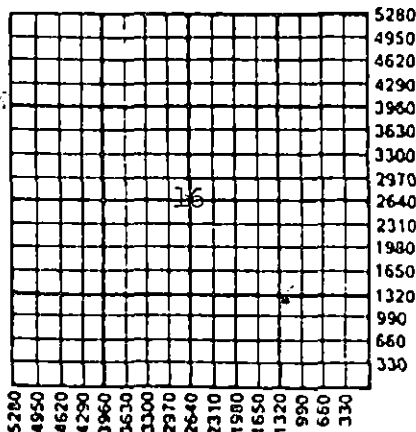
Lease Name Dunne-Hoffmann Well # G-2

Field Name Ptarmigan

Producing Formation Chase series

Elevation: Ground 3150' KB _____

Total Depth 3067' PBDT 3021'



Amount of Surface Pipe Set and Cemented at 781 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set N/A Feet

If Alternate II completion, cement circulated from N/A

feet depth to _____ w/ _____ sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers time log shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Ned E. Lowry Ned E. Lowry

Title Pres. Date 2/4/91

Subscribed and sworn to before me this 4th day of February, 1991.

Notary Public V. Kay Lucas

Date Commission Expires _____

NOTARY PUBLIC - State of Kansas
V. KAY LUCAS
My Appt. Exp. 10-22-92

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 Lowry Exploration, Inc.

Lease Name Dunne-Hoffmann

Well # G-2

East

County Stevens

Sec. 16 Twp. 34S Rge. 37 West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<p style="text-align: center;">Formation Description</p> <p><input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Bottom</th> </tr> </thead> <tbody> <tr> <td>Herrington</td> <td>2702</td> <td>2719</td> </tr> <tr> <td>Krider</td> <td>2732</td> <td>2780</td> </tr> <tr> <td>Winfield</td> <td>2790</td> <td>2827</td> </tr> <tr> <td>Towanda</td> <td>2852</td> <td>2902</td> </tr> <tr> <td>Ft. Riley</td> <td>2912</td> <td>2948</td> </tr> </tbody> </table>	Name	Top	Bottom	Herrington	2702	2719	Krider	2732	2780	Winfield	2790	2827	Towanda	2852	2902	Ft. Riley	2912	2948
Name	Top		Bottom																	
Herrington	2702		2719																	
Krider	2732		2780																	
Winfield	2790	2827																		
Towanda	2852	2902																		
Ft. Riley	2912	2948																		
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																			
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																			
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																			

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface Casing	12 1/4"	8 5/8"	24#	781	PremPlus Lite	325	2%CC, 1/4# flocele
Long String	7 7/8"	5 1/2"	15.5#	3065.87	HalcoLitePlus	195	1/4# flocele
					50-50 Pozmix	155	2%CC, 1/4# flocele
					plus thix-set		
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used) Depth			
3	Herrington	2704-17'		200 gal 75" acid			
3	Krider	2734-78'		1800 gal. 7 1/2% acid			
3	Winfield	2792-2825'					
3	Towanda	2854-2900'		112,000 gal. TWL-30 water			
3	Ft. Riley	2914-46'		320,000# 10-20 sand			
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
	Size	Set At	Packer At				
Date of First Production	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)						
1/22/91							
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio
			590				
							Gravity

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

METHOD OF COMPLETION: Open Hole Perforation Dually Completed Coningled Other (Specify) _____

Production Interval: _____

ORIGINAL

GABBERT-JONES, INC.
DRILLERS' WELL LOG

WELL NAME: DUNNE-HOFFMAN G-2
SEC. 16-34S-37W
STEVENS COUNTY, KANSAS

COMMENCED: 10-13-90

COMPLETED: 10-16-90

OPERATOR: HOFFMAN OIL CO.

Depth		Formation	Remarks
From	To		
0	783	Redbed	Ran 18 jts of 24# 8 5/8"
283	1850	Redbed Shale	csg LD @ 781' w/200 sks
1850	2635	Shale	Prinlite - 2% CC- 1/4# CF
2635	3067	Shale - Lime	125 sks Prim - 2% CC 1/4# CF
	3067 TD		PD @ 6:00 AM 10-14-90
			Ran 70 jts of 15 1/2# 5 1/2"
			csg. set @ 3065' W/ 195 sks Halco Lite Premium 1/4# FS - 155 sks 50/50 Posmix Premium + Thickset Additives - 2% CC - 1/4# FS PD @ 11:00 PM 10-16-90 RR @ 12:00 PM 10-16-90

RECEIVED
STATE CORPORATION COMMISSION

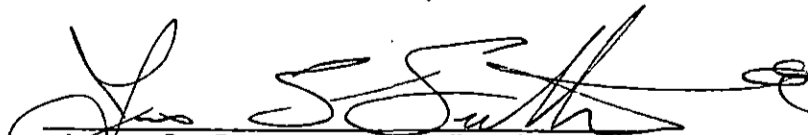
FEB 5 1991

CONSERVATION DIVISION
Wichita, Kansas

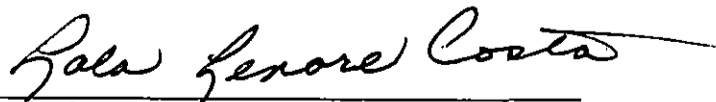
STATE OF KANSAS
COUNTY OF SEDGWICK

) I, the undersigned, being duly sworn on oath,
) state that the above Drillers' Well Log is true
) and correct to the best of my knowledge and
belief and according to the records of this office.

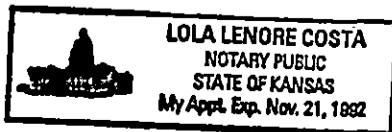
GABBERT-JONES, INC.


James S. Sutton, II. -- President

Subscribed & sworn to before me this
23rd day of October, 1990


Lola Lenore Costa

My commission expires Nov. 21, 1992



DAILY DRILLING REPORT 43

ORIGINAL

WED.

CONTRACTOR GABBERT & JONES INC

DATE 10-17-90

COMPANY Lowery Exp Co

LEASE Duane Hoffman

WELL NO. G-2

RIG NO. A11

DISTRICT Hugoton

COUNTY STEVENS

STATE KANSAS

D. P. STRING NO. 1

SIZE 4 1/2

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRG.
						DM Duane Hitchcock	8
						EM Ronnie Rist Jr	8
						H Herbert Morton	8
						H	
SLOPE TEST		ACCIDENT:- (GIVE NAME)					
@	FT.						
DEG. OFF		Rig Down				DRLR Duane Hoffman	

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	
SIZE		VISC.		CORING	1	SIZE COLL.	
MAKE		WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN		PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)			Big Down 7	TOTAL	FT.

REMARKS: 1100 - 7:00 Rig Down & DIG - CELLAR @ Duane - Hoffman J-2

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRG.
0	95	Sand	120	ALL	800	DM Johnnie Pineda	8
						EM Ken Dunman	8
						H Artemio Olivas	8
						H	
SLOPE TEST		ACCIDENT:- (GIVE NAME)					
@	FT.						
DEG. OFF						DRLR Subal Danks Jr	

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING	3/4	SIZE D. P.	
SIZE	1 1/4	VISC.		CORING		SIZE COLL.	
MAKE	HTC RT	WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.	BT 3102	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	0	PH.		TRIP		COLLARS	FT.
HOURS RUN	3/4	MTL. ADDED (REMARKS)			Rig up 7/4	TOTAL	FT.

REMARKS: 7:00 TO 2:15 Rig down - Move - Rig up dull kelly 2:15 TO 3:00 Only

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRG.
95	710	Sand & Red Bed	120	5-15	800	DM Roy Beer	12
						EM Charles Stephens	12
						H Lonnie Margus	12
						H	
SLOPE TEST		ACCIDENT:- (GIVE NAME)					
@	FT.						
DEG. OFF		Gel-30 Lime-2 Huls-10				CONSERVATION DIVISION Winchita, Kansas	
		Mud Cast #292 50				DRLR Kevin Clifty	

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	1	WEIGHT		DRILLING	5 1/2	SIZE D. P.	
SIZE	1 1/4	VISC.		CORING	1/2	SIZE COLL.	
MAKE	HTC RT	WTR. LOSS-C.C.		OTHER	3 1/4	JTS. D. P.	FT.
SERIAL NO.	BT 3102	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	0	PH.		TRIP	1 1/4	COLLARS	FT.
HOURS RUN	6 1/4	MTL. ADDED (REMARKS)			5 1/4	TOTAL	FT.

REMARKS: 1100 - 2:15 Rig Up 2:15 - 3:00 Only 3:00 - 5:00 - Drlg w 1/2 hr
Rig Serv & Circ. 5:00 5:30 T.O.H.P. Plugged Bit & Jet 5:30 - 9:30 Drlg
9:30 - 9:45 CIR. - 9:45 - 10:30 T.O.H. - 10:30 - 11:00 Rig up + RAN C.S.G.

APPROVED Willie Nesbitt

ORIGINAL

SUN.

DAILY DRILLING REPORT
 43

CONTRACTOR

Gabbert & Jones Drilling, Inc.

DATE

10-14-90

COMPANY

Lowrey Exp. Inc.

LEASE

Dunne Hoffman

WELL NO.

6-2

RIG NO.

11

DISTRICT

COUNTY

Stevens

STATE

Ks

D. P. STRING NO.

SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRG.
480	783	Red Beds	120	3-15	1000	W.H. Roy Beer ✓	8
	571					W.H. Charles Stephens ✓	8
						W.H. Lonnie Marquis ✓	8

SLOPE TEST

ACCIDENT:—
(GIVE NAME)

1/4 @ 783 FT.

DEG. OFF

W.H. Kevin Clift ✓ 8

BIT AND COREHEAD RECORD

MUD RECORD

TIME RECORD

DRILL STEM RECORD

RUN NO.	SIZE	MAKE	SERIAL NO.	DEPTH IN	HOURS RUN	WEIGHT	VISC.	WTR. LOSS-C.C.	FILTER CAKE	PH.	MTL. ADDED (REMARKS)	DRILLING	CORING	OTHER	REPAIRS	TRIP	SIZE D. P.	SIZE COLL.	JTB. D. P.	KELLY DOWN	COLLARS	TOTAL	
1	1 1/4	HHC RB	BT 3102	0	0							2 1/2											

REMARKS: 11:00-11:15 Rig Serv 11:15-1:45 Drilling 1:45-2:15 Circ. 2:15-3:00

T.O.H. 3:00-6:00 RIG UP + RAN 18 JTS. NEW 24# 8 5/8 C.S.B. TAIL 24

CEM. W/200 S.S. PREMIUM PLUS AITE - 2 1/2 C.C. + 1/4 "/S.K. CELLULOSE FLAKE - TAIL IN

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	SPINNER FLAKE	NAME	HRG.
12:50	1:00	PREMIUM PLUS	120	3-15	1000	DM	Johannie Pineda ✓	8
6:00	7:00	W.O.C.				EM	Kim Inman ✓	8
7:30	8:00	W.O.C.				H	Artemis Olivas ✓	8

SLOPE TEST

ACCIDENT:—
(GIVE NAME)

@ . . . FT.

DEG. OFF

DRLR

Wilbert Doolittle ✓ 8

BIT AND COREHEAD RECORD

MUD RECORD

TIME RECORD

DRILL STEM RECORD

RUN NO.	SIZE	MAKE	SERIAL NO.	DEPTH IN	HOURS RUN	WEIGHT	VISC.	WTR. LOSS-C.C.	FILTER CAKE	PH.	MTL. ADDED (REMARKS)	DRILLING	CORING	OTHER	REPAIRS	TRIP	SIZE D. P.	SIZE COLL.	JTB. D. P.	KELLY DOWN	COLLARS	TOTAL	
1	7/8	SEC	585F	783	0																		

REMARKS: 7:00 TO 3:00 W.O.C Nipple up @ 12:00 A.M.

Winterized ALL MOTORS

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRG.
783	1160	RED BED - SNARE	70	30/35	1000	W.H. Barry Inman ✓	8
						W.H. Duane Hitchcock ✓	8

SLOPE TEST

ACCIDENT:—
(GIVE NAME)

@ . . . FT.

DEG. OFF

FEB 5 1991

DRLR

Paul Conservation Division ✓ 8

BIT AND COREHEAD RECORD

MUD RECORD

TIME RECORD

DRILL STEM RECORD

RUN NO.	SIZE	MAKE	SERIAL NO.	DEPTH IN	HOURS RUN	WEIGHT	VISC.	WTR. LOSS-C.C.	FILTER CAKE	PH.	MTL. ADDED (REMARKS)	DRILLING	CORING	OTHER	REPAIRS	TRIP	SIZE D. P.	SIZE COLL.	JTB. D. P.	KELLY DOWN	COLLARS	TOTAL	
1	5 1/2	SEC - 585F	574922	783	4						W.O.C.	4 1/2	1/4			3							

REMARKS: 3:00-6:00 W.O.C. - 6:00-6:45 DRAG. PULL + CEMENT
 6:45-11:00 DRAG. W/14HR. SET #1

DAILY DRILLING REPORT
 43

CONTRACTOR: **GABBERT & JONES INC.**
 LEASE: **DUNNE-MOEFEMAN**
 DATE: **MONDAY 10/15/90**
 COMPANY: **LOWERY EXP. INC.**
 WELL NO.: **G-2**
 RIG NO.: **11**
 DISTRICT: **HUGOTON**
 COUNTY: **STEVENS**
 STATE: **KANSAS**
 D. P. STRING NO.: **1**
 SIZE: **1 1/2**

OCT 18 1990

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.		NAME	HRG.
1160	1850	RED BED SHALE	70	30/35	1000	DM	BARRY INMAN	8
						EM	DUNNE HITCHCOCK	8
		G. SAND				H		
SLOPE TEST		ACCIDENT:—		40 gal 2 line 30 hulls				
@ 1500 FT.		(GIVE NAME)						
1/2 DEG. OFF				Mud Cost \$573.60		DLR: PAUL YORK		8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	R.R.	WEIGHT	8.9	DRILLING	7 3/4	SIZE D. P.	
SIZE	7 7/8	VISC.	31	CORING		SIZE COLL.	
MAKE	SEC SRF	WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.	514972	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	783	PH: KCM		TRIP		COLLARS	FT.
HOURS RUN	7 3/4	MTL. ADDED (REMARKS)		SERV RIG	1/4	TOTAL	FT.

REMARKS: 11:00 - 7:00 DRIG. w/1/4HR. SERV. RIG. - WIRELINE SURVEY

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.		NAME	HRG.
1850	2295	Shale	70	30/35	1000	DM	Johanie Pineda	8
						EM	Kim Amador	8
						H	Artemio Olivas	8
SLOPE TEST		ACCIDENT:—		20 gal 1 line				
@ 1998 FT.		(GIVE NAME)						
3/4 DEG. OFF				\$136.80		DLR: Dilbert Davila Jr.		8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	1 1/2	WEIGHT		DRILLING		SIZE D. P.	
SIZE	7 7/8	VISC.		CORING		SIZE COLL.	
MAKE	SEC SRF RR	WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.	514972	FILTER CAKE		REPAIRS	1/4	KELLY DOWN	FT.
DEPTH IN	783	PH:		TRIP	1/2	COLLARS	FT.
HOURS RUN	18 3/4	MTL. ADDED (REMARKS)		JET SURVEY	1/4	TOTAL	FT.

REMARKS: 7:00 TO 3:00 Only w/0 (1/4) Ser. Rig (1/2) Jet (1/4) SURVEY

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.		NAME	HRG.
2295	2635	Shale	70	30/35	1000	DM	Roy Beer	8
						EM	Charles Stephens	8
						H	Loanne	8
SLOPE TEST		ACCIDENT:—		Gel-60 5/16" - 2 Hulls-25				
@ 2616 FT.		(GIVE NAME)		Mud Cost \$536.88				
3/4 DEG. OFF						DLR: KERR CONSERVATION		8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	1	WEIGHT		DRILLING	1 1/4	SIZE D. P.	
SIZE	7 7/8	VISC.		CORING	1/4	SIZE COLL.	
MAKE	SEC SRF RR	WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.	514972	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	783	PH:		TRIP		COLLARS	FT.
HOURS RUN	2.6	MTL. ADDED (REMARKS)		SURVEY	1/4	TOTAL	FT.

REMARKS: 3:00-11:00 Only w/1/2hr Rig Serv. & Jet 1/4 SURVEY

DAILY DRILLING REPORT
 43

CONTRACTOR
GABBERT & JONES, INC.

DATE
10/16/90

COMPANY
LOWERY EXP. CO.

LEASE
DUNNE-HITCHCOCK

WELL NO. **G-2** RIG NO. **11**

DISTRICT
HUGOTON

COUNTY
STEVENS

STATE
KANSAS

D. P. STRING NO. **1** G.I.Z. **H/S**

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.		NAME	HRS.
21035	2935	SHALE + LIMESTONE	70	35	1000	DM	DUNNE HITCHCOCK	8
						EM		
						H	HERBERT MORTON	8

SLOPE TEST @ FT. **10 GELL-2-5/8 2-LIG**
 DEG. OFF **1-MIL-PRC 1-0/8 5-HULLS** DRLR **BARRY INMAN** / 8

BIT AND COREHEAD RECORD			MUD RECORD		TIME RECORD		DRILL STEM RECORD		
RUN NO.	1 RR.	MOUD	WEIGHT	89	DRILLING	7/4	SIZE D. P.		
SIZE	7/8		VISC.	38	CORING		SIZE COLL.		
MAKE	SEC-585F	COST	WTR. LOSS-C.C.	15.2	OTHER	1/4	JTS. D. P.		FT.
SERIAL NO.	514972	417.40	REPAIRS	4H	REPAIRS	1/4	KELLY DOWN		FT.
DEPTH IN	783		PH.	90	TRIP		COLLARS		FT.
HOURS RUN	33 1/4		MTL. ADDED (REMARKS)		S. RIG	1/4	TOTAL		FT.

REMARKS: **11:00-7:00 DRLG. W/1/4HR. SERV. RIG - (1/4) Jet - (1/4) Grother pump**

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.		NAME	HRS.
2935	3067	Shale + Lime	70	35	1000	DM	Johnnie Pineda	8
						EM	BARRY INMAN	8
						H	Antonio Olivas	8

T.D. @ **11:30 A.M. 10/16/90** C.I.R. @ **1749-1/4**
 SLOPE TEST @ FT. **10 G-EL-2 LIG. - 1 MIL. PRC**
 DEG. OFF **1 CAUSTIC - 1 S.M.S.H 6 HULLS. M.C. 11-5.00** DRLR **Delbert Davis Jr.** / 8

BIT AND COREHEAD RECORD			MUD RECORD		TIME RECORD		DRILL STEM RECORD		
RUN NO.	1 RR.		WEIGHT	90	DRILLING	2 1/4	SIZE D. P.		
SIZE	7/8		VISC.	36	CORING	1/4	SIZE COLL.		
MAKE	SEC-585F		WTR. LOSS-C.C.	15.2	OTHER	3 1/4	JTS. D. P.		FT.
SERIAL NO.	514972		REPAIRS	4H	REPAIRS		KELLY DOWN		FT.
DEPTH IN	783		PH.	90	TRIP		COLLARS		FT.
HOURS RUN	37 1/2		MTL. ADDED (REMARKS)		L.D.D.P.	2 3/4	TOTAL		FT.

REMARKS: **7:00 TO 11:30 Drlg. W (1/4) Rig 11:30 - 12:15 CIR**
12:15 - 3:00 L.D.D.P. (C.I.R. @ 1749 1/4HR.) - CEMAR WORK
 changed oil + Lubr on light plastic Premier DRAWWORKS

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.		NAME	HRS.
3067	T.D.	- CEM. W/195SKS.				DM	ROY BEARCEIVED	8
						EM	CHARLES STEPHANS	8
						H	LONNIE ARBROUST	8

PLUS W/195SK. FLOCELE - TAIL W/155SKS. 50/50
PREMIUM PLUS W/THICKSET ADDITIVES
20/50 C.I.R. W/195SK. FLOCELE PLUG-DOWN @ (11:00 P.M.)
 By HALCO RIG-RELEASED @ **12:00 P.M.** CONSERVATION DIV. Wichita, Kans. 67202
 DEG. OFF **1-1/2** DRLR **KEVIN CLIFF** / 8

BIT AND COREHEAD RECORD			MUD RECORD		TIME RECORD		DRILL STEM RECORD		
RUN NO.			WEIGHT		DRILLING		SIZE D. P.		
SIZE			VISC.		CORING		SIZE COLL.		
MAKE	A. 15-	10:00-11:00	WTR. LOSS-C.C.		OTHER	W/195SK	JTS. D. P.		FT.
SERIAL NO.			REPAIRS		REPAIRS		KELLY DOWN		FT.
DEPTH IN			PH.		TRIP		COLLARS	(88)	FT.
HOURS RUN			MTL. ADDED (REMARKS)			1/2	TOTAL		FT.

REMARKS: **3:00 - 3:30 L.D.D.P. CEMAR WORK - 3:30 - 4:45 RIG UP +**
RAN 70 LITS. NEW 15.5# 5 1/2 CSG. TALLY 3060.87 - SET @ 3065.87
9:15 - 10:00 C.I.R. - 10:00 - 11:00 CEMENT ABOVE

CUSTOMER: 111111 WELL NO: 111111 JOB TYPE: 111111 DATE: 11-11-91

WELL DATA

FIELD D-H-G-2 SEC 16 TWP 34 RNG 37 COUNTY Stark STATE Ks

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		<u>N</u>	<u>8 1/2"</u>	<u>8 3/8</u>	<u>MR2</u>	<u>781</u>	
LINER							
TUBING							
OPEN HOLE				<u>12 1/4</u>	<u>KR2</u>	<u>783</u>	SHOTS/FT.
PERFORATIONS							
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 <u>10-13-91</u> TIME <u>2:00</u>	DATE <u>10-14-91</u> TIME <u>01:30</u>	DATE <u>10-14-91</u> TIME <u>03:12</u>	DATE <u>10-14-91</u> TIME <u>07:00</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>William 5/8</u>	<u>1</u>	<u>H</u>
FLOAT SHOE		<u>C</u>
GUIDE SHOE		<u>W</u>
CENTRALIZERS <u>5-4</u>	<u>1</u>	<u>C</u>
BOTTOM PLUG		<u>H</u>
TOP PLUG <u>5-11</u>	<u>1</u>	<u>O</u>
HEAD <u>BCPC</u>	<u>1</u>	<u>W</u>
PACKER		<u>C</u>
OTHER <u>1/2" 3/4" 1" 1 1/2" 2" 3" 4" 5" 6" 8" 10" 12" 14" 16" 18" 20" 22" 24" 26" 28" 30" 32" 34" 36" 38" 40" 42" 44" 46" 48" 50" 52" 54" 56" 58" 60" 62" 64" 66" 68" 70" 72" 74" 76" 78" 80" 82" 84" 86" 88" 90" 92" 94" 96" 98" 100"</u>	<u>1</u>	<u>O</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>Bill Young</u>	<u>70075</u>	
<u>D. Miller</u>	<u>216</u>	<u>Liberal, Mo</u>
<u>Richard Taylor</u>	<u>1512-1181</u>	
<u>D. Miller</u>	<u>75 TOL 2511</u>	<u>"</u>
<u>ANSONG 151115</u>	<u>2505-664</u>	
<u>E. Miller</u>	<u>8174</u>	<u>Wright, Mo</u>

MATERIALS

TREAT. FLUID DENSITY LB/GAL-API
DISPL. FLUID DENSITY LB/GAL-API
PROP. TYPE SIZE LB
PROP. TYPE SIZE LD
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-LD IN
FRIC. RED. AGENT TYPE GAL-LB IN
BREAKER TYPE GAL-LD IN
BLOCKING AGENT TYPE GAL-LD
PERFPAC BALLS TYPE QTY.
OTHER
OTHER

DEPARTMENT Chemical
DESCRIPTION OF JOB CEMENT SURFACE CEMENT W/ADDITIVES
PROM + 111111 + 111111 + 111111
111111 + 111111 + 111111 + 111111
Disperse 5-111111 pills w/111111
JOB DONE THRU: TUBING CASING ANNULUS TRG/ANN.
CUSTOMER REPRESENTATIVE X Ned E. Sawyer
HALLIBURTON OPERATOR Bill Young COPIES REQUESTED

CEMENT DATA

STAGE	NUMBER OF BAGS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>200</u>	<u>111111</u>	<u>Prom Plus</u>	<u>X</u>	<u>270 cc + 1/2" 1/4" thick</u>	<u>2.81</u>	<u>12.1</u>
<u>2</u>	<u>100</u>	<u>111111</u>	<u>Prom Plus</u>	<u>X</u>	<u>270 cc + 1/2" 1/4" thick</u>	<u>1.32</u>	<u>11.8</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING 150 DISPLACEMENT 200 PRESLUSH: BBL-GAL. TYPE
BREAKDOWN MAXIMUM LOAD & BKDN: BBL-GAL. FEB 5 1991
AVERAGE 150 FRACTURE GRADIENT TREATMENT: BBL-GAL. DISPL./BBL-GAL. 16.9
SHUT-IN: INSTANT 5-MIN. 18-MIN. CEMENT SLURRY: BBL-GAL. 11.1
HYDRAULIC HORSEPOWER TOTAL VOLUME: BBL-GAL. 11.1
ORDERED AVAILABLE AVERAGE RATES IN BPM USED
TREATING 1.0 DISPL. 1.0 OVERALL 5.25 REMARKS
FEET 13.00 REASON Stop * CIP approx 200 lbs to surface *

JOB LOG

WELL NO: 62 LEASE: *Dunn Northman*
 CUSTOMER: *Moody Lease Management*

TICKET NO: 5014501

PAGE NO: 1

FORM 2013 R-2

JOB TYPE: *Cont. 8 1/2 surface csq*

DATE: 10-11-90

ORIGIN

CHART NO.	TIME	RATE (BPM)	VOLUME (BBU) (GAL.)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
10/13	0100							Called out. Ready @ 0900 hrs !!!
10/14	0130							On location. Daily ahead.
	0145							T.O. 12 1/4 hole. C.O.H.
	0215							T.O. C.H. Rig up to run csq.
	0312							Start csq.
	0510							Csq in. Hook up to circ. drilling pump.
	0523							Shut down rig. pump. Hook up to cont.
	0527	6.5	72.7		✓		100	Start 8055's Perm + water interface.
								2 1/2" Per fl. mixed @ 12.4 ppq.
	0538	10	87.1		✓		100	Start 125' 2 1/2" Perm + water interface.
								fl. mixed @ 14.8 ppq.
	0613							Cont in. Shut down pumps.
	0641							Drop 5' water top plug.
	0645	1.5	37		✓		0	Start water displacement.
	0653	2	10		✓		200	Slow rate.
	0658				✓		700	Level plug.
	0700							Release pressure. Flood held.
								Job completed.
								* Lit approx 8055's cont. to surface.
								Thanks for calling Halliburton !!!
								Bill, Richard & Gregg

REGISTRATION COMMISSION
 FEB 5 1991
 CONVENTION CENTER
 LANSING, MICHIGAN

DISTRICT: Liberal Ks DATE: 10-11-90

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

WELL NO. G 2 LEASE Duane Hoffman SEC 16 TWP 34S RANGE 37W

FIELD COUNTY Stevens STATE Ks OWNED BY Same

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, and PERFORATIONS.

PREVIOUS TREATMENT: DATE TYPE MATERIALS

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED. Cont 8 5/8 surface casing w/ 200 SLS Prem. Plus Lightweight cement w/ 120 cc + 1/4" BK floacle, 125 SLS Prem. Plus w/ 270 cc + 1/4" BK floacle. Displace 5-wiper top plug w/ water.

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.
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.
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.

- 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.
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.
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.
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: 10-11-90

STATE OF KANSAS CONSERVATION COMMISSION FEB 5 1991

FORM 1803 R-11

WELL NO. - FARM OR LEASE NAME 2 Duane Hoffman		COUNTY Stevens	STATE Ks	CITY / OFFSHORE LOCATION	DATE 10-14-90
CHARGE TO Loupy Lease Management		OWNER Same	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 Gabbert + Jones	LOCATION 1 Liberal Ks		CODE 25510
CITY, STATE, ZIP		SHIPPED VIA Co. Trk	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT	LOCATION 2 Hugerton Ks	CODE 20525
WELL TYPE 02	WELL CATEGORY 01	WELL PERMIT NO.	DELIVERED TO Loc 5 1/2 Est Hugerton	LOCATION 3	CODE
TYPE AND PURPOSE OF JOB 010		B- 8572 1/2	ORDER NO.	REFERRAL LOCATION	

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

Halliburton warrants only 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		1		MILEAGE	1	Co. Trk	60	11/2	2.35	14 10
001-016		1		Pump Charge	8	Hrs	780	PA		630 00
030-016		1		5-Wiper Top Plug	1	Feet	8 3/8	In		98 00
21A	815.19502	1		Insert Floater	1	Feet	8 3/8	In		171 00
87	815.19411	1		Fillup Assembly	1	Feet	8 3/8	In		89 00
40	807.93059	1		5-Neutralizers	2	Feet	8 3/8	In	55.00	110 00
59	807.4011	1		Cable Scratchers	6	Feet	8 3/8	In	22.50	135 00

NOT AN INVOICE

STATE OF KANSAS
REGISTRATION COMMISSION

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

B- 8572 1/2 5-10-91

6919 97

WAS JOB SATISFACTORILY COMPLETED?
 WAS OPERATION OF EQUIPMENT SATISFACTORY?
 WAS PERFORMANCE OF PERSONNEL SATISFACTORY?
 Thad E. Brown
 CUSTOMER OR HIS AGENT (PLEASE PRINT)

 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.
Bill Young
 HALLIBURTON OPERATOR-
 HALLIBURTON APPROVAL
 WICHITA, KANSAS

SUB TOTAL

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

HALLIBURTON SERVICES ORIGINAL

A Halliburton Company

DALLAS, TX 75395-1046

INVOICE NO.	DATE
014691	10/16/1990

WELL LEASE NO./PLANT NAME	WELL/PLANT LOCATION	STATE	WELL/PLANT OWNER		
WINE HOFFMAN G-2	STEVENS	KS	SAME		
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE		
LIBERAL	GABBERT & JONES #3	CEMENT PRODUCTION CASING	10/16/1990		
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
525343	NED C LOWRY			COMPANY TRUCK	04596

LOWRY EXPL., INC.
BOX 1847
LIBERAL, KS 67901

DIRECT CORRESPONDENCE TO:
SUITE 1300
LIBERTY TOWER
100 BROADWAY AVENUE
OKLAHOMA CITY, OK 73102-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE	37	MI	2.35	86.95
		1	UNT		
001-016	CEMENTING CASING	3065	FT	1,095.00	1,095.00
		1	UNT		
030-018	CEMENTING PLUG SW, PLASTIC TOP	5.5	IN	53.00	53.00
		1	EA		
12A	GUIDE SHOE - 5 1/2" 8RD THD.	1	EA	104.00	104.00
825.205					
24A	INSERT FLOAT VALVE - 5 1/2" 8RD	1	EA	83.00	83.00
815.1925					
27	FILL-UP UNIT 5 1/2"-6 5/8"	1	EA	30.00	30.00
815.1931					
40	CENTRALIZER 5-1/2" MODEL S-4	10	EA	44.00	440.00
807.93022					
66	FASGRIP LIMIT CLAMP 5 1/2"	1	EA	11.30	11.30
807.64031					
350	HALLIBURTON WELD-A	1	LB	11.00	11.00
890.10802					
504-050	PREMIUM PLUS CEMENT	75	SK	7.08	531.00
506-105	ROZMIX A	75	SK	3.91	293.25
506-121	HALLIBURTON-GEL 2%	8	SK	.00	N/C
504-120	HALL. LIGHT -PREMIUM PLUS	195	SK	6.29	1,226.55
508-101	THIXSET COMPONENT A	126	LB	5.35	674.10
508-103	THIXSET COMPONENT B	32	LB	7.45	238.40
507-210	FLOCELE	87	LB	1.30	113.10
509-406	ANHYDROUS CALCIUM CHLORIDE	3	SK	26.25	78.75
500-207	BULK SERVICE CHARGE	357	CFT	1.10	392.70
500-306	MILEAGE CMTG MAT DEL OR RETURN	109.790	THX	.75	82.34
INVOICE SUBTOTAL					5,544.44

***** CONTINUED ON NEXT PAGE *****

RECEIVED
CORPORATION COMMISSION
FEB 5 1991
COMMERCE DIVISION
Kansas, Kan

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.