

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

API NO. 15- 077-21282-00 ORIGINAL
County Harper
C W/2, E/2, NW/4 Sec. 16 Twp. 32S Rge. 7 W

Operator: License # 31480

1320 Feet from (S) (circle one) Line of Section

Name: Little River Energy Company

1650 Feet from (E) (circle one) Line of Section

Address P. O. Box 1113

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

City/State/Zip Drumright, OK 74030

Lease Name Zimmerman Well # 1

Purchaser: Not yet determined.

Field Name Zuercher

Operator Contact Person: Steve Crowder

Producing Formation Mississippi Chat

Phone (918) 352-4444

Elevation: Ground 1419 KB 1427

Contractor: Name: Allen Drilling

Total Depth 4815 PSTD 4766

License: 5418

Amount of Surface Pipe Set and Cemented at 268 Feet

Wellsite Geologist: Jeff Zoller

Multiple Stage Cementing Collar Used? Yes X No

Designate Type of Completion
 New Well Re-Entry Workover

If yes, show depth set _____ Feet

Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, VSW, Expl., Cathodic, etc)

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

If Workover/Re-Entry: old well info as follows:

Drilling Fluid Management Plan ALT 1 2-14-96 JK
(Data must be collected from the Reserve Pit)

Operator: _____

Chloride content 6500 ppm Fluid volume 640 bbls

Well Name: _____

Dewatering method used hauled fluids to disposal

Comp. Date _____ Old Total Depth _____

Location of fluid disposal if hauled offsite: _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PSTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

Operator Name Nicholas Water Service

7-17-94 7-25-94 10-6-94

Lease Name Hostetler SWDW License No. 30952

Spud Date Date Reached TD Completion Date

Quarter Sec. 9 Twp. 32 S Rge. 8 (E)

County Harper Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado
Bercy Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well.
Rule 82-3-130, 82-3-106 and 82-3-107 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 geologist well report 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.

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 R. Steve Crowder

RECEIVED
KANSAS CORPORATION COMMISSION
DEC 08 1994
12-08-1994

Title President Date 10-14-94

Subscribed and sworn to before me this 14th day of November
19 94

Notary Public Catherine A. Towell

Date Commission Expires 1-14-96

WICHITA, KANSAS OFFICE USE ONLY
Letter of Confidentiality Attached
Wireline Log Received
Geologist Report Received
Distribution
 KCC SWD/Rep NEPA
 EGS Plug Other
(Specify)

Operator Name Little River Energy Company

Lease Name Zimmerman

Well # 1

Sec. 16 Twp. 32S Rge. 7W

East West

SIDE TWO

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 pressure, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheets if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)

Yes No

Samples Sent to Geological Survey

Yes No

Cores Taken

Yes No

Electric Log Run (Submit Copy.)

Yes No

List All Logs Run

Dual Induction Density Neutron

DST Information sheets are attached.

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 casing	12.25	8.625	20	268	Standard	160	2% gel 3% cacl 100 sacks of topped off w/ 100 sacks of premium thru tubing.
Production	7.875	5.5	15.5	4809	50/50 poz	215	8% gtl 10% salt 100 sacks of floccle

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth	Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
X perforate	4749	4750	Standard	50	No additives
plug back TD					
plug off zone					

PERFORATION RECORD - Bridge Plugs Set/Type	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)
Sand Jet 4739-4740 (Simpson)	No stimulation
4 HPF 4749-4750	Squeeze (50 sacks cement)
2 HPF 4395-4400 (Mississippi)	No stimulation

TUBING RECORD	Size	Set At	Packer At	Liner Run	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
2 HPF	4395-4400 (Mississippi)	4357	4357		
4 HPF	CIBP @ 4680				
Sand Jet	4739-4740 (Simpson)				

Estimated Production Per 24 Hours	Oil	Gas	Water	None	Gas-Oil Ratio	Gravity
Not yet producing						N.A.

Disposition of Gas: It will eventually be sold used on lease vented (if vented, submit ACO-18.)

METHOD OF COMPLETION Open Hole Part. Quality Comp. Commingled Other (Specify)

Production Interval 4395-4400

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

Well Name ZIMMERMAN #1 Test No. 1 Date 7/24/94
 Company LITTLE RIVER ENERGY COMPANY Zone MISSISSIPPI
 Address PO BOX 1113 DRUMRIGHT OK 74030 Elevation 1427
 Co. Rep./Geo. JEFF ZOLLER Cont. ALLEN #1 Est. Ft. of Pay _____
 Location: Sec. 16 Twp. 32S Rge. 7W Co. HARPER State KS

Interval Tested	<u>4391-4417</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>26</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>4386</u>	Drill Collar - 2.25 Ft. Run	_____
Bottom Packer Depth	<u>4391</u>	Mud Wt.	<u>9.3</u> lb/Gal.
Total Depth	<u>4417</u>	Viscosity	<u>47</u> Filtrate <u>9.6</u>

Tool Open @ 1:55AM Initial Blow STRONG BLOW - GAS TO SURFACE IN 8 MINUTES

Final Blow STRONG BLOW

Recovery - Total Feet 15 Flush Tool? _____

Rec. <u>4370</u>	Feet of	<u>GAS IN PIPE</u>
Rec. <u>15</u>	Feet of	<u>DRILLING MUD</u>
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____

BHT 119 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 5500 ppm System

(A) Initial Hydrostatic Mud 2136.7 PSI AK1 Recorder No. 13788 Range 4650

(B) First Initial Flow Pressure 42.4 PSI @ (depth) 4414 w/ Clock No. 22993

(C) First Final Flow Pressure 49.2 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 1606.8 PSI @ (depth) 4409 Clock No. 30410

(E) Second Initial Flow Pressure 41.3 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 41.3 PSI @ (depth) _____ Clock No. _____

(G) Final Shut-in Pressure 1564.1 PSI Initial Opening 30 Final Flow 30

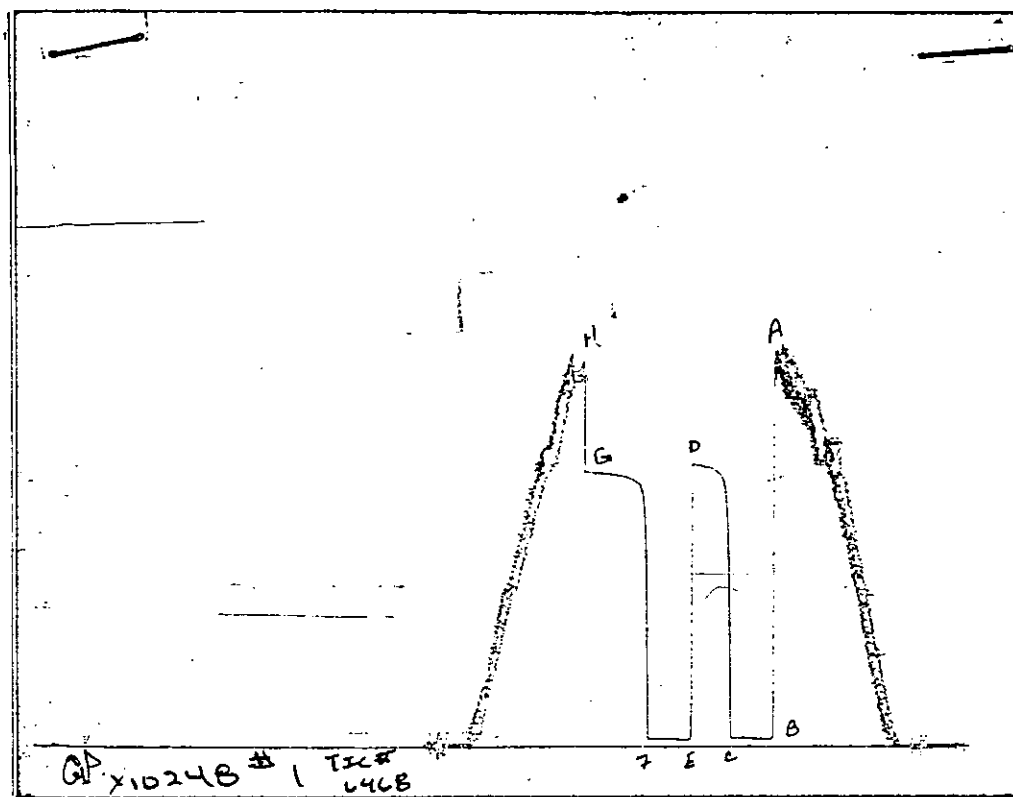
(H) Final Hydrostatic Mud 2112.4 PSI Initial Shut-in 30 Final Shut-in 45

Our Representative _____

RECEIVED
 CORPORATION CO. W/ DIVISION
 NOV 21 1994
 WICHITA, KANSAS

CHART PAGE

ORIGINAL



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2129	2136.7
(B) FIRST INITIAL FLOW PRESSURE	27	42.4
(C) FIRST FINAL FLOW PRESSURE	34	49.2
(D) INITIAL CLOSED-IN PRESSURE	1581	1606.8
(E) SECOND INITIAL FLOW PRESSURE	34	41.3
(F) SECOND FINAL FLOW PRESSURE	34	41.3
(G) FINAL CLOSED-IN PRESSURE	1548	1564.1
(H) FINAL HYDROSTATIC MUD	2098	2112.4

RECEIVED 1606.8
1581
REGISTRATION COMMISSION

NOV 21 1994 41.3

REGISTRATION DIVISION 41.3
34-HITA, KANSAS

ORIGINAL

COMPUTER GAS EVALUATION BY TRILOBITE TESTING, L.L.C.

LITTLE RIVER ENERGY COMPANY

ZIMMERMAN #1

DST 1

16 32S 7W

HARPER

KS

ELEVATION:	1427 KB	EST. PAY:	9 FT.
DATUM:	-2983	ZONE TESTED:	MISSISSIPPI
TEST INTERVAL:	4391-4417	TIME INTERVALS:	30-30-30-45
RECORDER DEPTH:	4409	VISCOSITY:	0.01499 CP
BOTTOM HOLE TEMP:	119	HOLE SIZE:	7.875 IN
COMPRESSIBILITY:	0.9976	GAS GRAVITY:	0.6731

TEMPERATURE RANKINE:	579.00	&
TRANSMISSIBILITY:	1228.49	Kh/%
THEORITICAL FLOW CAPICITY:	18.41	Kh
AVERAGE EFFECTIVE PERMEABILITY:	2.05	K(md.)
RADIUS OF INVESTIGATION:	11.08	FT.
DAMAGE RATIO:	4.10	
ABSOLUTE OPEN FLOW(MAX)	147.10	MCFD
ABSOLUTE OPEN FLOW(MIN)	147.05	MCFD
THEORITICAL OPEN FLOW(MAX)	603.77	MCFD
THEORITICAL OPEN FLOW(MIN)	603.57	MCFD
POTENTIOMETRIC SURFACE	568.09	(FT.)

INITIAL SHUT-IN VALUES:

SLOPE	91698.33
THEORETICAL STATIC PRESSURE	1635.09

FINAL SHUT-IN VALUES:

SLOPE	113143.14
THEORETICAL STATIC PRESSURE	1599.86

DRAWDOWN FACTOR:

RECEIVED
OIL COMMISSION
NOV 21 1985 (*)
OIL DIVISION
WICHITA, KANSAS

API # 15-077-21282

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

Well Name ZIMMERMAN #1 Test No. 2 Date 7/25/94
 Company LITTLE RIVER ENERGY COMPANY Zone SIMPSON
 Address PO BOX 1113 DRUMRIGHT OK 74030 Elevation 1427 KB
 Co. Rep./Geo. JEFF ZOLLER Cont. ALLEN #1 Est. Ft. of Pay 5
 Location: Sec. 16 Twp. 32S Rge. 7W Co. HARPER State KS

Interval Tested 4733-4740 Drill Pipe Size 4.5" XH
 Anchor Length 7 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 4728 Drill Collar - 2.25 Ft. Run _____
 Bottom Packer Depth 4733 Mud Wt. 9.3 lb/Gal.
 Total Depth 4740 Viscosity 50 Filtrate 10.0

Tool Open @ 5:38 A.M. Initial Blow STRONG BLOW (GAS TO SURFACE IN 6 MIN) SEE
GAS BLOW REPORT

Final Blow STRONG BLOW (SEE GAS FLOW REPORT)

Recovery - Total Feet 2400 Flush Tool? NO

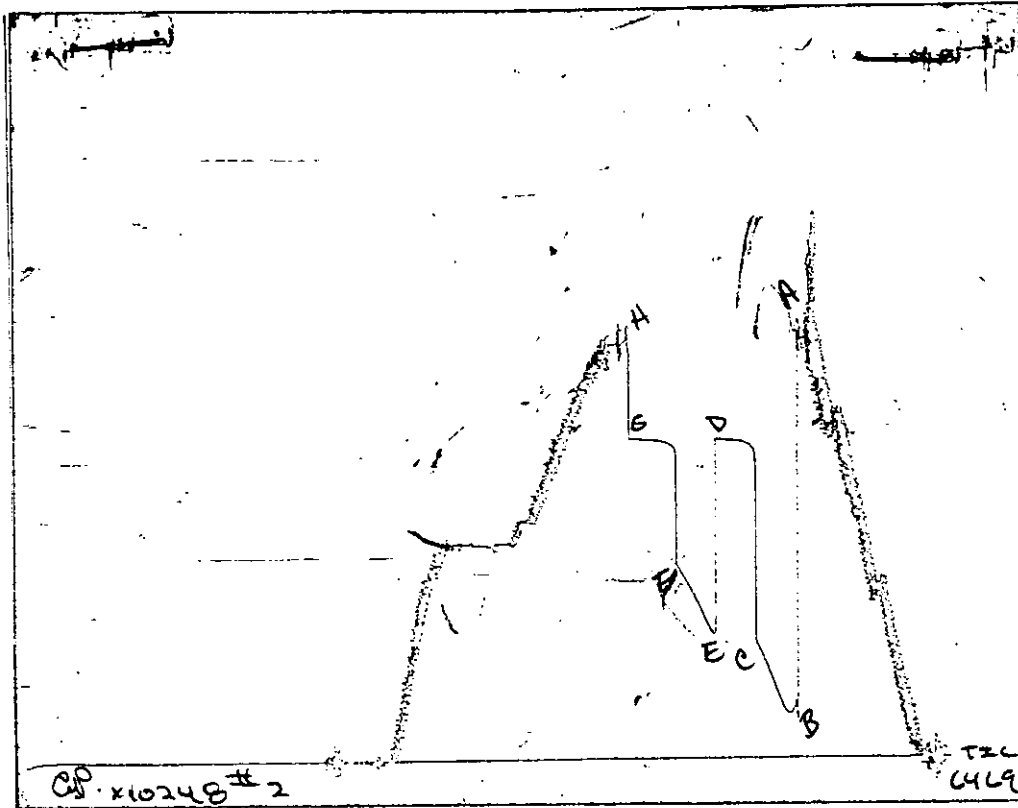
Rec. 2340 Feet of GAS IN PIPE
 Rec. 960 Feet of CLEAR GASSY OIL 10%GAS/90%OIL
 Rec. 1440 Feet of GASSY SALT WATER 3%GAS/97%WATER
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

BHT 127 °F Gravity 47 °API @ 74 °F Corrected Gravity 46 °API
 RW 0.26 @ 78 °F Chlorides 99000 ppm Recovery Chlorides 7000 ppm System

(A) Initial Hydrostatic Mud 2467.9 PSI AK1 Recorder No. 13788 Range 4650
 (B) First Initial Flow Pressure 256.3 PSI @ (depth) 4737 w/ Clock No. 22993
 (C) First Final Flow Pressure 664.1 PSI AK1 Recorder No. 10248 Range 4400
 (D) Initial Shut-in Pressure 1788.5 PSI @ (depth) 4731 Clock No. 30410
 (E) Second Initial Flow Pressure 707.2 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 1092.0 PSI @ (depth) _____ w/ Clock No. _____
 (G) Final Shut-in Pressure 1788.4 PSI Initial Opening 30 Final Flow 30
 (H) Final Hydrostatic Mud 2426.0 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative GARY PEVOTEAUX

RECEIVED
 OIL FIELD CORPORATION COMMISSION
 NOV 21 1994
 WICHITA KANSAS



	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2369	2467.9
(B) FIRST INITIAL FLOW PRESSURE	227	256.3
(C) FIRST FINAL FLOW PRESSURE	674	664.1
(D) INITIAL CLOSED-IN PRESSURE	1797	1788.5
(E) SECOND INITIAL FLOW PRESSURE	714	707.2
(F) SECOND FINAL FLOW PRESSURE	1100	1092
(G) FINAL CLOSED-IN PRESSURE	1797	1788.4
(H) FINAL HYDROSTATIC MUD	2344	2426

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STATE CORPORATION COMMISSION

NOV 21 1994

CONSERVATION DIVISION
WICHITA, KANSAS

ORIGINAL

COMPUTER OIL EVALUATION BY TRILOBITE TESTING, L.L.C.

LITTLE RIVER ENERGY COMPANY

ZIMMERMAN #1

DST 2

16 32S 7W

HARPER KS

ELEVATION:	1427 KB	KB	EST. PAY	5 FT
DATUM:	-4498		ZONE TESTED:	SIMPSON
TEST INTERVAL:	4733-4740		TIME INTERVALS:	30-60-60-120
RECORDER DEPTH:	4497		VISCOSITY:	2.95 CP
BOTTOM HOLE TEMP:	127		HOLE SIZE:	7.875 IN

CUBIC FEET OF GAS IN PIPE:	6			
TOTAL FEET OF RECOVERY:	1145.00	CORRECTED PIPE FILLUP:	1360.290	
TOTAL BARRELS OF RECOVERY:	16.28	CORR. BARRELS OF RECOVERY:	18.330	BBL
BARRELS IN DRILL PIPE:	16.28	API GRAVITY:	46	
BARRELS IN WEIGHT PIPE:	0.00	FLUID GRADIENT:	0.345	
BARRELS IN DRILL COLLARS:	0.00			
GAS OIL RATIO:	0.34	CU.FT/BBL		
BUBBLE POINT PRESSURE:	4			
UNCORRECTED INITIAL PRODUCTION:			260.51	BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE:			293.27	BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:			164.933	

INITIAL SLOPE	87.28	PSI/CYCL	FINAL SLOPE	11.49	PSI/CYCLE
INITIAL P*	1016.96	PSI	FINAL P*	987.59	PSI

TRANSMISSIBILITY	4150.06	(MD.-FT./CP.)
PERMEABILITY	2448.80	(MD.)
INDICATED FLOW CAPACITY	12244.00	(MD.FT)
PRODUCTIVITY INDEX	4.69	(BARREL/DAY/PSI)
DAMAGE RATIO	8.25	
RADIUS OF INVESTIGATION	469.46	(FT,)
POTENTIOMETRIC SURFACE	-2206.77	(FT.)
DRAWDOWN FACTOR	2.888	(%)
THEORETICAL POTENTIAL FROM FINAL FLOW PRESSURE	2420.80	
THEORETICAL POTENTIAL FROM PSEUDO STEADY FLOW STATE	1361.43	

RECEIVED
 STATE CORPORATION COMMISSION
 NOV 21 1994
 CONSERVATION DIVISION
 WICHITA, KANSAS

Phone 913-483-2627, Russell, KS

Phone 913-625-5516, Hays, KS

Phone 316-886-5926, Medicine Lodge, KS

Phone 316-793-5861, Great Bend, KS

Phone 913-672-3471, Oakley, KS

Phone 913-788-3843, Ness City, KS

ALLIED CEMENTING CO., INC. 666439

Home Office P. O. Box 31

Russell, Kansas 67665

NEW

Date	7/17/94	Sec	10	Twp	32S	Range	7W	Called Out	10:30 PM	On Location	12:00 AM	Job Start	6:00 AM	Finish	10:15 AM
Lease	Zimmerman	Well No.	1	Location	160414 Set 3 SW 1/4 N.E. 1/4			County	Harper	State	KS				
Contractor	Allen Drilling Rig #1											Owner	Little River Energy Co.		
Type Job	8" Surface Csg														
Hole Size	12 1/4		ID	275											
Csg	8 3/4 20"		Depth	275											
Tbg Size			Depth												
Drill Pipe			Depth												
Tool			Depth												
Cement Left in Csg	15		Shoe Joint	15											
Press Max			Minimum												
Meas Line			Displace	17 DAL											
Perf															

To: Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.

Charge To: Allen Drilling
Street
City

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. *Concrete Supply*
X *Concrete Supply*
CEMENT

Amount Ordered: 160 sks Class A
Consisting of:

Common	
Poz. Mix	
Gel	
Chloride	
Quickset	

Handling
Milage

Sub Total
Total

Flooring Equipment

EQUIPMENT

No.	Cementer	<i>Max Hall</i>
Pumpjack 266	Helper	<i>Justin Hart</i>
No.	Cementer	
Pumpjack	Helper	
227	Driver	<i>Joshua Kelly</i>
Bulkhead	Driver	

DEPTH of Job		Sub Total	Tax	Total
Reference				
215 FT	Pump Charge			
29 Mi	Milage			
1 Ec	8 3/4 Wooden Plug			

Remarks: 8" Surface Csg with 160 sks Class A
Preceded by 3% cacl² Deep Plug Displace 17 DAL
Close in Head. Cmt Did Not Circulate
Top off Three 1" Tbg with 100 sks Class A



CEMENTING LOG

STAGE NO. _____

Date: 11/17/94 District: M-8 Dodge Ticket No. 6439
 Company: Hillen Drilling Rig: Hillen #1
 Lease: Limmerman Well No. 1
 County: Harris State: Ks
 Location: 168 325-7W Field: _____
Net 14 Det 3W 14IN EB

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size: 5 7/8 Type: _____ Weight: 20 Collar: _____

Casing Depth: Top 0 Bottom 275

Drill Pipe Size: _____ Weight: _____ Collars: _____
 Open Hole Size: 12 1/4 TD: 275 ft. P.B. to: _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 106.52 Lin. ft./Bbl. 15.34
 Open Hole: Bbls/Lin. ft. 114.58 Lin. ft./Bbl. 6.8579
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. 107.35 Lin. ft./Bbl. 13.6037
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
 Spacer Type: FX-sh H2c D
 Amt. _____ Sko Yield _____ ft³/sk Density _____ PPG

LEAD Pump Time: _____ hrs. Type: 60' 40' 29" 1
3% Coolt Excess _____

Amt. 160 Sko Yield 1.26 ft³/sk Density 14.5 PPG

TAIL Pump Time: _____ hrs. Type: 0' 16" 5" A
 Excess _____

Amt. 100 Sko Yield 1.17 ft³/sk Density 15.6 PPG

WATER: Lead 6.5 gals/sk Tail _____ gals/sk Total 24.70 Bbls

Pump Trucks Used: 266 Justin Hart
 Bulk Equip: 277 John Kelly

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top Wood Btm _____
 Stage Collars _____
 Special Equip _____
 Disp. Fluid Type: H2c Amt. 17 Bbls Weight _____ PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE _____

CEMENTER: Max Hall

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
12:00						ON LOC RIG UP
6:12	125			5	5	Mix H2c H2c
6:13	175			3.6	5	Mix CMT 166 sks 60' 40' 29" 1 3% coolt
6:24						CMT mixed SHUT DOWN Deep Plug
6:27	50			1.7	4	Start Displacement
6:37	175					Plug in Place SHUT DOWN Close in Head
						CMT did NOT circulate Wait on CMT
						To 1" with
9:50	275			20.8	2	Mix CMT Pump thru 40' 1" Koss class A
10:01						CMT mixed SHUT DOWN CMT circulate
						To 1" with

FINAL DISP. PRESS. 135 PSI BUMP PLUG TO _____ PSI BLEEDBACK _____ BBLs THANK YOU



HALLIBURTON

HALLIBURTON ENERGY SERVICES

CHARGE TO: **LITTLE RIVER ENERGY**
 ADDRESS: **P.O. Box 1113**
 CITY, STATE, ZIP CODE: **Drumright, Oklahoma 74030**

COPY

TICKET No. **614361 - 0**

FORM 1906 R-13

SERVICE LOCATIONS 1. 25225	WELL/PROJECT NO. * 1	LEASE ZIMMERMAN	COUNTY/PARISH HARPER	STATE Ks	CITY/OFFSHORE LOCATION Land	DATE 7-26-94	OWNER SANS
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR Allan Drilling Company	RIG NAME/NO. 1	SHIPPED VIA 5120	DELIVERED TO Location	ORDER NO. N/A
3.	WELL TYPE Oil - Oil	WELL CATEGORY Oil Development	JOB PURPOSE 5/2 Logging	WELL PERMIT NO. API # 1507212820000	WELL LOCATION South West of Harper Ks		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF		UM	UM		
000-117					MILEAGE (Round trip)	70	1 TRK	2.75	192.50
001-014					Pump Charge	450-5000		1765.00	765.00
230-016					TOP PLUG	5/2"	1 EA	60.00	60.00
018-315					Mud Flush	500 Gall		65	325.00
019-241					Rotating Head	5/2"	1 EA	185.00	185.00
12A	825.205				Reamur Guide Stave	5/2	1 EA	121.00	121.00
24A	815.1955				Insert Float	5/2	1 EA	110.00	110.00
27	815.19313				Fillup Assembly		1 EA	55.00	55.00
40	806.60022				Centralizers	5/2	1 EA	44.00	596.00

ORIGINAL

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE
X *Steve Crowder*
 DATE SIGNED: **7-26-94** TIME SIGNED: **1530**
 A.M. P.M.

SUB SURFACE SAFETY VALVE WAS:
 PULLED & RETURN PULLED RUN

TYPE LOCK DEPTH

BEAN SIZE SPACERS

TYPE OF EQUALIZING SUB. CASING PRESSURE

TUBING SIZE TUBING PRESSURE WELL DEPTH

TREE CONNECTION TYPE VALVE

SURVEY **AGREE** **UN-DECIDED** **DIS-AGREE**

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

WE UNDERSTOOD AND MET YOUR NEEDS?

OUR SERVICE WAS PERFORMED WITHOUT DELAY?

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?

ARE YOU SATISFIED WITH OUR SERVICE?
 YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	3209.50
FROM CONTINUATION PAGE(S)	4164.64
SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	7374.14

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT): **Steve Crowder** CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): *X Steve Crowder*

HALLIBURTON OPERATOR/ENGINEER: **Kurt D. Ditt** EMP #: **Blakewell**

HALLIBURTON APPROVAL: *[Signature]*



TICKET CONTINUATION

COPY

TICKET No. 6436

FORM 1911 R-8

CUSTOMER		WELL		DATE		PAGE		OF			
LITTLE RIVER ENERGY		ZIMMERMAN 1		07-26-94		2		2			
PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF				U/M			
504-316		1				HALLIBURTON LIGHT CEMENT	30	sk		6.82	204.60
LIGHT CEMENT LOADED ON THE BACK OF TRUCK NUMBER 4142/5621											
504-130		1				50/50 POZMIX W2% GEL	215	sk		5.73	1231.95
508-291	516.00337	1				GILSONITE BLENDED 8#	1720	lb		40	688.00
509-968	516.00158	1				SALT BLENDED 10%	1100	lb		15	165.00
507-210	890.50071	1				FLOCELE BLENDED 1/4#	54	lb		1.65	89.10
507-775	516.00144	1				HALAD-322 BLENDED .75%	131	lb		7.00	917.00
50/50 POZMIX CEMENT LOADED ON THE FRONT OF TRUCK NUMBER 4142/5621											
509-968	516.00158	1				SALT NOT MIXED	400	lb		15	60.00
ORIGINAL											
500-207		1				SERVICE CHARGE	CUBIC FEET			1.35	411.75
500-306		1				MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES	95	397.24
						23.894		35	418.145		

CONTINUATION TOTAL 4164.64



JOB LOG HAL 2015-C

DATE: 7-26-94 PAGE NO:

CUSTOMER		WELL NO.	LEASE	JOB TYPE	TICKET NO.		
Little River Energy		1	Zimmerman	52 hrs/day	614361		
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)	DESCRIPTION OF OPERATION AND MATERIALS
				F	C		
	12:00						Called out
	1:00						on location
	17:00						Re-laying down Drill Pipe
	17:40						Start Circulating fluid equipment
	19:45						Casing on bottom
	19:45						Req up to Circulate
	20:00						Circulate For 1 Hr
	21:00						Thru Circulating
	21:00						Hook up to Start Job
	21:02	6	20 BBL			200	Pump 20 BBL Salt Flud
	21:05	"	12 BBL			200	Pump Mud Flud
	21:08		3 BBL			0	Mix 30% HLC For PTHH & Scavenger Cmt
	21:15	7				300	Start Mixing 50/50 Poz
	21:25	20	160 BBL			0	Cement Mixed
	21:25						Close Valve Releases Plug pump out pump lines
	21:30						open Top Valve
	21:30	8				0	Start Displacement
	21:45	2	112 BBL			1000	Plug held
	21:46					0	Release Plg Plug Held
	22:00						Job Co-Delete
	22:00						Roll up Tool
							Thank you
							Kurt Doherty
							Jale Gumbert
							Larry Connor
							Call again

WELL DATA

FIELD _____ SEC _____ TWP _____ RANG _____ COUNTY **Harper** 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 _____

JOB DATA

CALLED OUT DATE 7-26-91 TIME 12:00	ON LOCATION DATE 7-26-91 TIME 1:50	JOB STARTED DATE 7-26-91 TIME _____	JOB COMPLETED DATE 7-26-91 TIME _____
--	--	--	--

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE Regular S2	1	Monro
CENTRALIZERS S-4 S2	10	
BOTTOM PLUG		
TOP PLUG S-W S2	1	
HEAD P.C. S2	1	
PACKER		
OTHER Insert Float S2	1	

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
Kurt Duet	90129 PU	Paik
Jale Giacometti	Solo Pumpjack	
Larry Caracci	Bulk Tank	

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL API

DISPL. FLUID **Fresh Water** DENSITY _____ LB/GAL API

PROP. TYPE _____ SIZE _____ LB _____

ACID TYPE _____ GAL _____

GURFACANT 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 _____

PERFAC BALLS TYPE _____ QTY _____

OTHER _____

DEPARTMENT **Cement**

DESCRIPTION OF JOB **Cement S2 Piped Casing**

JOB DONE THRU TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE **X**

HALLIBURTON OPERATOR **Kurt Duet**

COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK	MIXED LBS./GAL
	30	HCC	Monro	B			
	DIS	Sys 2.2	11	B	2% Gel 10% Salt 5% DEAN'S FLU 7% H2O2	143	137

PRESSURES IN PSI

SUMMARY

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 **20** REASON **Insert Float**

PRES. IN BBL-GAL **20 BBL SAH**

LOAD & BKDN BBL-GAL _____

TREATMENT BBL-GAL _____

CEMENT SLURRY BBL-GAL **55 Ppt**

TOTAL VOLUME BBL-GAL _____

REMARKS **112-851**