

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

API NO. 15- 187-20707 0001 ORIGINAL

County STANTON  
NW Sec. 28 Twp. 29S Rge. 39 X W

Operator: License # 5952

1980 Feet from S (N) (circle one) Line of Section

Name: AMOCO PRODUCTION COMPANY

1980 Feet from E (W) (circle one) Line of Section

Address P. O. BOX 800 ROOM 925

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

City/State/Zip DENVER, CO 80201

Lease Name R&L FARMS Well # 1-28

Purchaser: \_\_\_\_\_

Field Name SAND ARROYO

Operator Contact Person: ELLEN HARTZLER

Producing Formation MORROW

Phone (303) 830-5130

Elevation: Ground 3184' KB 3196'

Contractor: Name: CHEYENNE DRILLING

Total Depth 5800' PBDT 5600'

License: 5382

Amount of Surface Pipe Set and Cemented at 1663 Feet

Wellsite Geologist: \_\_\_\_\_

Multiple Stage Cementing Collar Used? Yes X No

Designate Type of Completion

If yes, show depth set \_\_\_\_\_ Feet

X New Well \_\_\_\_\_ Re-Entry \_\_\_\_\_ Workover

If Alternate II completion, cement circulated from \_\_\_\_\_

Oil \_\_\_\_\_ SWD \_\_\_\_\_ SLOW \_\_\_\_\_ Temp. Abd.  
X Gas \_\_\_\_\_ ENHR \_\_\_\_\_ SIGW \_\_\_\_\_  
Dry \_\_\_\_\_ Other (Core, WSW, Expl., Cathodic, etc)

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

If Workover:

Drilling Fluid Management Plan ALT 1 9/94 3-17-95  
(Data must be collected from the Reserve Pit)

Operator: HARRIS OIL & GAS

Chloride content 5000 ppm Fluid volume 2500 bbls

Well Name: R&L FARMS 1-28

Dewatering method used CUT WINDOWS IN WALL TO AID IN NATURAL EVAPORATION.

Comp. Date 1/7/94 Old Total Depth 5800

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Deepening \_\_\_\_\_ Re-perf. \_\_\_\_\_ Conv. to Inj/SWD \_\_\_\_\_  
Plug Back 5600' PBDT \_\_\_\_\_  
Commingle \_\_\_\_\_ Docket No. \_\_\_\_\_  
Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
Other (SWD or Inj?) \_\_\_\_\_ Docket No. \_\_\_\_\_

Operator Name \_\_\_\_\_

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

11/19/93 \_\_\_\_\_ 12/01/93 \_\_\_\_\_ 4/28/94 \_\_\_\_\_  
Spud Date Date Reached TD Completion Date

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

County \_\_\_\_\_ Docket No. \_\_\_\_\_

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby 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 N. E. Ellen Hartzler  
Title SR. STAFF ASSISTANT \_\_\_\_\_ Date 9/27/94  
Subscribed and sworn to before me this 27th day of September, 19 94.  
Notary Public Dina R. Harris  
Date Commission Expires 11-10-96

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other (Specify)

Form ACO-1 (7-91)

RECEIVED  
KANSAS CORPORATION COMMISSION  
1-17-95  
JAN 17 1995

81

SIDE TWO

Operator Name AMOCO PRODUCTION COMPANY Lease Name R&L FARMS Well # 1-28  
 Sec. 28 Twp. 29S Rge. 39  East County STANTON  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  Yes  No  Log Formation (Top), Depth and Datums  Sample

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No

Name	Top	Datum
BASE HEEBNER	3759	-563
LANSING	3775	-579
MARMATON	4426	-1230
MORROW	5138	-1942
L. MARROW	5410	-2214
CHESTER	5502	-2306
ST. GENEVIEVE	5576	-2400

List All E.Logs Run:  
*Dual Induction - SFL;  
 Compensated Neutron; Borehole  
 Compensated Sonic; microlog*

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	12 1/4"	8 5/8"	24#	1663	LITE	535	2% CC 171 lbs <i>locote</i>
Production	7 7/8"	5 1/2"	15.5#	5796	Class H	150	15% KCL .6% HALAD 322

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	5456-5474;	FRAC W/111,200# 16/30 SAND & 16,247 GALS 700	5456-5474
	<i>CIBP @ 5600'</i>		

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		2 3/8	5477					
Date of First, Resumed Production, SMD or Inj. <u>4/28/94</u>			Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)					
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity
			700					

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)  Open Hole  Perf.  Dually Comp.  Commingled 5456-5474

Production Interval  Other (Specify) \_\_\_\_\_



**JOB LOG FORM 2013 R-4**

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Harris Oil Gas	1-28	R&L Farms Matthewson Colledge	SRP SSK Surface	649682

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0800							Called out on location Rig up Safety meeting
								ORIGINAL
	1525		196.2		✓	150		Start head cement 535 SKs
	1553		35.2		✓	250		Start tail cement 150 SKs
	1600							Release plug
			103.2		✓	150/500		Displace Plug
	1622				✓	1000		Land Plug
						0		Release psi check flowt OK
								Circulated 26 BBL cement

**RECEIVED**  
KANSAS CORPORATION COMMISSION

MAR 17 1995

CONSERVATION DIVISION  
WICHITA, KS



HALLIBURTON

HALLIBURTON ENERGY SERVICES

CHARGE TO:  
ADDRESS  
CITY, STATE, ZIP CODE

COPY

TICKET

No.

649682 - 0

PAGE 1 OF

FORM 1906 R-13

1. SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY/OFFSHORE LOCATION	DATE	OWNER
1. 1120-93	1-25	R&L Farms SRP	Tarrant	Ks		1120-93	Emile
2. HIGGON	TICKET TYPE	NITROGEN JOB?	CONTRACTOR	HIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.
	<input type="checkbox"/> SERVICE	<input type="checkbox"/> YES	T. M. Co	2		Higgon	
3.	<input type="checkbox"/> SALES	<input checked="" type="checkbox"/> NO					
4.	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION		
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT.	DF.							
000-117					MILEAGE	36	mi	1		2.75	99.00
001-016	ORIGINAL				Pump Charge	1667	ft				1220.00
020-015					5 in per TOP Plug	1	Pa	8 1/2	in		130.00
12 A	825-217				Grade shoe	1	Pa	8 1/2	in		216.00
24 A	815-19502				last bit	1	Pa	8 1/2	in		171.00
27	815-19415				A To fill	1	Pa	8 1/2	in		550.00
40					Control lines	3	Pa	8 1/2	in	72.00	216.00

RECEIVED  
KANSAS CORPORATION COMMISSION  
MAR 17 1995  
CONSERVATION DIVISION  
WICHITA, KS

**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**

DATE SIGNED: 1120-93  
TIME SIGNED: 1400

do  do not require IPC (Instrument Protection).  Not offered

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: 2107  
FROM CONTINUATION PAGE(S): 5539

SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE

**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): **X** Emile  
CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): [Signature]  
HALLIBURTON OPERATOR/ENGINEER: [Signature]  
EMP #: 41525  
HALLIBURTON APPROVAL:



# JOB SUMMARY

DIVISION Liberal Ks  
HALLIBURTON LOCATIONBILLED ON TICKET NO. 649691

## WELL DATA

FIELD \_\_\_\_\_ SEC. \_\_\_\_\_ TWP. \_\_\_\_\_ RING \_\_\_\_\_ COUNTY Stanton 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

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>11-20-93</u> TIME <u>0530</u>	DATE <u>11-20-93</u> TIME <u>1230</u>	DATE <u>11-20-93</u> TIME <u>1525</u>	DATE <u>11-20-93</u> TIME <u>1825</u>

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE <u>Insert</u>	<u>1</u>	<u>H</u>
GUIDE SHOE <u>Reg</u>	<u>1</u>	<u>O</u>
CENTRALIZERS <u>34</u>	<u>3</u>	<u>W</u>
BOTTOM PLUG		
TOP PLUG <u>5/8 in</u>	<u>1</u>	<u>Co</u>
HEAD <u>PC</u>		
PACKER		
OTHER		

### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>O Nicholas</u>	<u>37458</u>	<u>LIBERAL</u>
<u>H1525</u>		
<u>T Bond foot</u>	<u>52947</u>	<u>11</u>
<u>D4604</u>	<u>75496</u>	
<u>C Cornelison</u>	<u>3625</u>	<u>Hugoton</u>
<u>G2728</u>	<u>5529</u>	
<u>A Clark</u>	<u>4449</u>	
<u>G2724</u>	<u>4734</u>	

### MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB./GAL. °API

DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB./GAL. °API

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

SURFACTANT TYPE \_\_\_\_\_ IN

NE AGENT TYPE \_\_\_\_\_ 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 \_\_\_\_\_

DEPARTMENT Cement

DESCRIPTION OF JOB 8 5/8 surface

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

CUSTOMER REPRESENTATIVE X Ewert Brubly

HALLIBURTON OPERATOR Camille & Nicholas COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>535</u>	<u>Best Light</u>		<u>20%</u>	<u>CC 1/4" Flocite</u>	<u>2.06</u>	<u>12.2</u>
	<u>150</u>	<u>Best</u>		<u>2%</u>	<u>CC</u>	<u>1.32</u>	<u>1.49</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. 103.2

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY: BBL.-GAL. 231.4

HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ REMARKS

AVERAGE RATES IN BPM \_\_\_\_\_

TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_

CEMENT LEFT IN PIPE \_\_\_\_\_

FEET 43 REASON Block

CUSTOMER

CUSTOMER Harris 010905  
 LEASE Phillips 66  
 WELL NO. 1-28  
 JOB TYPE 8 5/8 Surface  
 DATE 11-20-93



TICKET CONTINUATION

COPY

13

TICKET No. 1048041

FORM 1911 R-8

CUSTOMER		WELL		DATE		PAGE		OF						
Harris Oil & Gas		R & L Farms 1-28		12-1-93		2		2						
PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M	QTY.	U/M	UNIT PRICE	AMOUNT	
		LOC	ACCT	DF										
504-043	516.00272					Premium Cement	150	sk				8.05	1,342	50
507-775	516.00144					Halad-322 B/ .6% W/ 150	85	lb				6.90	586	50
508-002	70.15302					Potassium Chloride B/ 5% W/ 150	250	lb				.27	67	50
ORIGINAL														
<p>RECEIVED KANSAS CORPORATION COMMISSION MAR 17 1995 CONSERVATION DIVISION WICHITA, KS</p>														
500-207						SERVICE CHARGE								
500-306						MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES		CUBIC FEET	TON MILES			
							14,435	17		150		1.35	202	50
										122,698		.95	116	56

CONTINUATION TOTAL 2315.56



HALLIBURTON ENERGY SERVICES

FORM 1906 R-13

CHARGE TO: HARDY OIL & GAS  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

COPY

TICKET

No. 648041 - 9

PAGE 1 OF 2

SERVICE LOCATIONS 1. 025540	WELL/PROJECT NO: 1-28	LEASE Arl Farms	COUNTY/PARISH CRAWFORD	STATE KS	CITY/OFFSHORE LOCATION	DATE 12-1-93	OWNER Sams
2. 025535	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR Trowspac	RIG NAME/NO. 2	SHIPPED VIA Duro	DELIVERED TO LAWRENCE	ORDER NO. 5-A
3.	WELL TYPE 01	WELL CATEGORY 01	JOB PURPOSE 035	WELL PERMIT NO.	WELL LOCATION 5 Big Bear KS		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING LOC ACCT DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
000-117			MILEAGE	1	U	160	ME	2.75	440.00
001-016			Pump Charge	6	HR	3803	FR		1850.00
030-016			5-WELPER TOW PING	5 1/2	DN	1	EA		60.00
218-738			CIRY FCA II	1	QAL	16	CA	24.00	384.00
213-009			MUD F-1356	1	QAL	470	LD	65	273.00

ORIGINAL

RECEIVED  
 KANSAS CORPORATION COMMISSION  
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 CONSERVATION DIVISION  
 WICHITA, KS

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CUSTOMER OR CUSTOMER'S AGENT SIGNATURE  
 X E. E. Dettmer  
 DATE SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_

A.M.  P.M.

do  do not require IPC (Instrument Protection).  Not offered

SUB SURFACE SAFETY VALVE WAS:  
 PULLED & RETURN  PULLED  RUN

TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	✓	UN-DECIDED		PAGE TOTAL 3,007.00 FROM CONTINUATION PAGE(S) 2,315.56 SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE 5,322.56
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?	✓			
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?	✓			
TUBING SIZE	TUBING PRESSURE	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	✓			
TUBING PRESSURE	WELL DEPTH	ARE YOU SATISFIED WITH OUR SERVICE?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
TREE CONNECTION	TYPE VALVE	<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				

**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) E E DETTMER	CUSTOMER OR CUSTOMER'S AGENT SIGNATURE X <u>E. E. Dettmer</u>	HALLIBURTON OPERATOR/ENGINEER R. Elwood	EMP # 04360	HALLIBURTON APPROVAL
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**JOB LOG FORM 2013 R-4**

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
HARRIS OIL & GAS				R/L FARMS		5 1/2 LONGSTRENG		648041	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	05:30							Called out Renny 10:30	
	10:00							ON LOC. Rig L.P.D.P.	
	12:05							START CSG.	
	13:26							Hook up C&F Log	
	15:41							Hook up Halliburton	
	15:42	5	30		✓	400		Pump 10 BBL 2 1/2 HLL, 10 BBL 2 1/2 HLL, 10 BBL 2 1/2 HLL	
	15:48	5.3	31.8		✓	200		START CMT 140 SHS PRINTER 5% HCL 2 1/2 HLL	
	15:54							SEALED OFF / WASH UP	
	15:58	5.5	130		✓	11-250		Pump Displacement 130 BBL 2 1/2 HLL	
	16:21	2	10		✓	300		Slow Rate 2 B.P.M. 10 BBL 2 1/2 HLL	
	16:26							Plug Down	
ORIGINAL									
<div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 5px;"> <p>RECEIVED KANSAS CORPORATION COMMISSION MAR 17 1995 CONSERVATION DIVISION WICHITA, KS</p> </div> <div style="text-align: right;"> <p>Thank You for Calling Halliburton Robbie - CREW</p> </div> </div>									



# JOB SUMMARY

HALLIBURTON DIVISION WED UNIT  
 HALLIBURTON LOCATION ZENEON KS

BILLED ON TICKET NO. 1078041

## WELL DATA

FIELD \_\_\_\_\_ SEC. 29 TWP. 29 RNG. 09 COUNTY GRANT 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 Chem MUD WT. 9.0  
 PACKER TYPE \_\_\_\_\_ SET AT 3,015'  
 BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_  
 MISC DATA \_\_\_\_\_ TOTAL DEPTH 3800

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>N</u>	<u>14</u>	<u>5 1/2</u>	<u>KB</u>	<u>5803</u>	
LINER						
TUBING						
OPEN HOLE			<u>7 7/8</u>	<u>1067</u>	<u>5800</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

## JOB DATA

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		<u>C</u>
FLOAT SHOE		<u>O</u>
GUIDE SHOE		<u>M</u>
CENTRALIZERS		<u>P</u>
BOTTOM PLUG		<u>C</u>
TOP PLUG		<u>O</u>
HEAD		<u>M</u>
PACKER		<u>P</u>
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>12-1-93</u>	DATE <u>12-1-93</u>	DATE <u>12-1-93</u>	DATE <u>12-1-93</u>
TIME <u>06:30</u>	TIME <u>10:00</u>	TIME	TIME

### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J. J. J. J.</u>	<u>38242</u>	
<u>D. H. H.</u>	<u>P.C.</u>	<u>ZENEON KS</u>
<u>M. H. H.</u>	<u>52276</u>	
<u>D. H. H.</u>	<u>76900</u>	<u>(B)</u>
<u>M. H. H.</u>	<u>51934</u>	
<u>F. H. H.</u>	<u>41313</u>	<u>(B)</u>

ORIGINAL

### 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 KANSAS CORP. GAL.-LB. \_\_\_\_\_ IN  
 GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 BREAKER TYPE MAR 17 1995 GAL.-LB. \_\_\_\_\_ IN  
 BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 TERFPAC BALLS TYPE CONSERVATIVE GAL. \_\_\_\_\_ QTY. \_\_\_\_\_  
 OTHER WICH

DEPARTMENT CMT  
 DESCRIPTION OF JOB 5' 2" LOW SPACING  
 JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.   
 CUSTOMER REPRESENTATIVE X [Signature]  
 HALLIBURTON OPERATOR R. Edwards COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>150</u>	<u>Premium</u>	<u>N</u>	<u>13</u>	<u>5' 2" R.C.L. 4/10 2 1/2 Water 3 1/2</u>	<u>1.47</u>	<u>1.7</u>

### PRESSURES IN PSI

### SUMMARY

### VOLUMES

PLATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRESLUSH: BBL-GAL. 10-10 10 TYPE 3 1/2  
 DOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKDN: BBL-GAL. \_\_\_\_\_ PAD: BBL-GAL. \_\_\_\_\_  
 GE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL-GAL. \_\_\_\_\_ DISPL: BBL-GAL. 1 1/2 9 2 1/2  
 N: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY: BBL-GAL. 21.8  
 HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL-GAL. \_\_\_\_\_  
 D \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ REMARKS \_\_\_\_\_  
 AVERAGE RATES IN BPM \_\_\_\_\_  
 DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
 CEMENT LEFT IN PIPE 415'  
 REASON 200' JOINT

CUSTOMER

CUSTOMER HARRIS OIL & GAS  
 LEASE KS 2 1/2 1/4 N 1/4  
 WELL NO. 1 2 1  
 JOB TYPE 5' 2" LOW SPACING  
 DATE 12-1-93