

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

API No. 15- 033-21042-0000

County Comanche

ap - NW - SE - SW Sec. 23 Twp. 32S Rge. 19 X W

1130 Feet from South Line of Section

1800 Feet from West Line of Section

Footages calculated from nearest outside section corner: SW

Lease Name Rich Well # 23-14

Field Name Wildcat

Producing Formation Viola

Elevation: Ground 1980' KB 1993'

Total Depth 6170' PBSD 6085'

Amount of Surface Pipe Set and Cemented at 640 Feet

Multiple Stage Cementing Collar Used? X Yes No

If yes, show depth set 5271 Feet

If Alternate II completion, cement circulated from KCC
feet depth to w/ sx cmt.

Drilling Fluid Management Plan ALT 1 7-6-00
(Data must be collected from the Reserve Pit)

Chloride content 9000 ppm Fluid Volume 0 bbls

Dewatering method used used steel pits, hauled mud & cuttings

Location of fluid disposal if hauled offsite: hauled to "haul-off" pit
located in Sw/4 Sec. 1-33S-19W

Operator Name Samuel Gary Jr. & Associates, Inc.

Lease Name Colter "haul-off" pit

SW Quarter Sec. 1 Twp. 33S Rng. 19 W

County Comanche Docket No.

Operator: License # 3882

Name: Samuel Gary Jr. & Associates, Inc.

Address 1670 Broadway, Suite 3300

City/State/Zip Denver, CO 80202-4838

Purchaser: Reliant Energy

Operator Contact Person: Tom Fertal

Phone 303-831-4673

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Dale Padgett

Designate Type of Completion

X New Well Re-Entry Workover

 Oil SWD SIOW Temp. Abd.

X Gas ENHR SIGW

 Dry Other (Core, WSW, Expl., Cathodic, etc.)

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

Operator:

Well Name:

Comp. Date Old Total Depth

 Deepening Re-Perf. Conv. To Inj/SWD

 Plug Back PBSD

 Commingled Docket No.

 Dual Completion Docket No.

 Other (SWD or Inj?) Docket No.

11/29/99 12/13/99 2/15/00

Spud Date Date Reached TD Completion Date

CONFIDENTIAL

RECEIVED

MAR 14 2000

3-14-00

**CONSERVATION DIVISION
WICHITA, KS**

RELEASED

APR 25 2002

FROM CONFIDENTIAL

MAR 13 2000

CONFIDENTIAL

INSTRUCTIONS: An original and two copies of this information shall be filed with the Kansas Corporation Commission, 130 South Market, Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82030196 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 geological well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 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 Thomas H. Fertal

Title Senior Geologist Date Mar 13, 2000

Subscribed and sworn to before me this 13th day of March 2000.

Notary Public Judith D. Harmon

**MY COMMISSION EXPIRES:
FEBRUARY 04, 2003**

My Commission Expires

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

X

CONFIDENTIAL

ORIGINAL

Operator Name Samuel Gary Jr. & Associates, Inc. Lease Name Rich Well # 23-14

Sec. 23 Twp. 32S Rge. 19 East West County Comanche

Instructions: Show important tops and base of formation 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 checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum Name	Top	<input type="checkbox"/> Sample Datum
Sample Sent to Geological Survey	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		STONE CORRAL	978	(1015)
Cores Taken	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		WABAUNSEE	3378	(-1385)
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		BASE HEEBNER SHALE	4247	(-2254)
List all E. Logs Run:	dual induction			STARK SHALE	4747	(-2754)
	comp neutron-density			CHEROKEE SHALE	5041	(-3048)
	micro log			TOP MISS UNCONFORMITY	5131	(-3138)
	sonic log			VIOLA	5784	(-3791)
				SIMPSON	5923	(-3934)
				ARBUCKLE	6073	(-4080)

RELEASED

APR 25 2002

RECEIVED
KANSAS CORPORATION COMMISSION

MAR 14 2000

KCC

FROM CONFIDENTIAL

CONSERVATION DIVISION
WICHITA, KS

MAR 15 2000

Report all strings set - conductor, surface, intermediate, production, etc.

CONFIDENTIAL

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
conductor	30"	20"		80'	10 sk grout	7 yds	
surface	12-1/4"	8-5/8"	25	640'	250 sx 65-35 poz & 100 sx class "A"	350	3% CC
production	7-7/8"	5-1/2"	15.5	6170'	Midcon II	290	2% CC, 1/4#/sk flocele, 5#/sk gilsonite, 0.4% H-344 & 0.5% CFR-3

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth		Type of Cement	# Sacks Used	Type and Percent Additives
	Top	Bottom			
Perforate					
Protect Casing					
Plug Back TD					
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
		Amount	Kind	
4	5787-94	500 gal	28% DSFe	5787-94'
4	5796-5800'			

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2-3/8"	5762'	5759'	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.		Producing Method			
2/15/00		<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.
			435		

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

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval: 5787-5800'

CONFIDENTIAL ORIGINAL
ALLIED CEMENTING CO., INC. 2194

Federal Tax I.D.# 48-0727860

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Medicine Lodge

DATE <u>11-29-99</u>	SEC. <u>23</u>	TWP. <u>32S</u>	RANGE <u>19W</u>	CALLED OUT <u>10:00 pm</u>	ON LOCATION <u>11:45 pm</u>	JOB START <u>4:00 AM</u>	JOB FINISH <u>4:35 AM</u>
LEASE <u>Rich</u>	WELL # <u>23-14</u>	LOCATION <u>Coldwater Car wash</u>		COUNTY <u>Comanche</u>	STATE <u>KS.</u>		
OLD OR NEW (Circle one)	RELEASED <u>12/24, 1/25, 4/5</u>						

CONTRACTOR Duke #7 APR 25 2002
TYPE OF JOB Surface
HOLE SIZE 12 1/4
CASING SIZE 8 7/8 x 25'
TUBING SIZE _____
DRILL PIPE _____
TOOL _____
PRES. MAX 500 MINIMUM _____
MEAS. LINE _____ SHOE JOINT 40-60
CEMENT LEFT IN CSG. _____
PERFS. _____
DISPLACEMENT 39 BBls Freshwater

OWNER SAM GARY JR + ASSOC

EQUIPMENT
PUMP TRUCK CEMENTER Carl Bolding
#261-265 HELPER Stane Winsor
BULK TRUCK
#259-250 DRIVER Mark Brungardt
BULK TRUCK
DRIVER _____

CEMENT			
AMOUNT ORDERED			
<u>250</u> Sx <u>65:35:6+3%cc + 1/4" Flo-seal</u>			
<u>100</u> Sx <u>CLASS A + 3%cc + 2%gel</u>			
COMMON A	<u>100</u>	@ <u>6.35</u>	<u>635.00</u>
POZMIX		@	
GEL	<u>2</u>	@ <u>9.50</u>	<u>19.00</u>
CHLORIDE	<u>12</u>	@ <u>28.00</u>	<u>336.00</u>
<u>ALW</u>	<u>250</u>	@ <u>6.00</u>	<u>1500.00</u>
<u>Flo-seal</u>	<u>63#</u>	@ <u>1.15</u>	<u>72.45</u>
		@	
		@	
HANDLING	<u>350</u>	@ <u>1.05</u>	<u>367.50</u>
MILEAGE	<u>350 x 40</u>	<u>.04</u>	<u>560.00</u>

RECEIVED
KANSAS CORPORATION COMMISSION

TOTAL \$3489.95

REMARKS:

SERVICE

MAR 14 2000

Pipe on bottom break circulation.
pump 5 BBls freshwater
250 Sx 65:35:6+3%cc + 1/4 Flo-seal
100 Sx CLASS A + 3%cc + 2%gel
Release plug.
Displace with 39' BBls freshwater.
Cement did circulate. Shut in

DEPTH OF JOB	<u>640'</u>		
PUMP TRUCK CHARGE	<u>0-300'</u>		<u>470.00</u>
EXTRA FOOTAGE	<u>340'</u>	@ <u>.43</u>	<u>146.20</u>
MILEAGE	<u>40</u>	@ <u>2.85</u>	<u>114.00</u>
PLUG	<u>Rubber 8" x 18"</u>	@ <u>90.00</u>	<u>90.00</u>
		@	
		@	
		@	

KCC

MAR 15 2000

TOTAL \$820.20

CHARGE TO: SAM GARY JR + ASSOC % CARSON ENG.
STREET 562 WEST HWY 4
CITY OLMITZ STATE KANSAS ZIP 67564

CONFIDENTIAL

FLOAT EQUIPMENT

<u>1-BAFFLE plate</u>	@ <u>45.00</u>	<u>45.00</u>
<u>2-BASKETS</u>	@ <u>150.00</u>	<u>300.00</u>
<u>2-Centralizers</u>	@ <u>30.00</u>	<u>60.00</u>
	@	
	@	

TOTAL \$405.00

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____
TOTAL CHARGE \$ 4715.15
DISCOUNT 943.03 IF PAID IN 30 DAYS
3772.12

SIGNATURE Kenneth McGuire

KENNETH M'GUIRE
PRINTED NAME

ALLIED CEMENTING CO., INC.
 P.O. BOX 31
 RUSSELL, KS 67665
 PH (785) 483-3887
 FAX (785) 483-5566

CONFIDENTIAL

V22174

***** ORIGINAL *****
 * INVOICE *

KCC

Invoice Number: 080169

MAR 15 2000

Invoice Date: 11/29/99

CONFIDENTIAL

RELEASED

DRLG COMP W/O LOE

Sold Samuel Gary, Jr. & Assoc.
 To: % Larson Engineering, Inc.
 562 W. Highway #4
 Olmitz, KS
 67561-8561

APR 25 2002

AFE # 2314

ACCT # 135/60

FROM CONFIDENTIAL

APPROVED BY T.C. Larson

Cust I.D.....: Gary
 P.O. Number.. Rich #23-14
 P.O. Date....: 11/29/99

Due Date.: 12/29/99
 Terms.....: Net 30

Item I.D./Desc.	Qty. Used	Unit	Price	Net	TX
Common	100.00	SKS	6.3500	635.00	E
Gel	2.00	SKS	9.5000	19.00	E
Chloride	12.00	SKS	28.0000	336.00	E
ALW	250.00	SKS	6.0000	1500.00	E
FloSeal	63.00	LBS	1.1500	72.45	E
Handling	350.00	SKS	1.0500	367.50	E
Mileage (40)	40.00	MILE	14.0000	560.00	E
350 sks @\$.04 per sk per mi					
Surface	1.00	JOB	470.0000	470.00	E
Extra Footage	340.00	PER	0.4300	146.20	E
Mileage pmp trk	40.00	MILE	2.8500	114.00	E
Rubber plug	1.00	EACH	90.0000	90.00	E
Baffle Plate	1.00	EACH	45.0000	45.00	E
Baskets	2.00	EACH	150.0000	300.00	E
Centralizers	2.00	EACH	30.0000	60.00	E

All Prices Are Net, Payable 30 Days Following
 Date of Invoice. 1 1/2% Charged Thereafter.
 If Account CURRENT take Discount of \$ 943.03
 ONLY if paid within 30 days from Invoice Date

Subtotal: 4715.15
 Tax.....: 0.00
 Payments: 0.00
 Total....: 4715.15

RECEIVED
 KANSAS CORPORATION COMMISSION

<943.03>
3772.12

MAR 14 2000

CONSERVATION DIVISION
 WICHITA, KS

CONFIDENTIAL

V22790 ORIGINAL



Halliburton Energy Services, Inc.

Remit to: P.O. Box 951046
Dallas, TX 75395-1046

INVOICE

SAMUEL GAY JR & ASSOCIATES INC
12/21/1999

Site/Well Address: SAM GARY JR RICH 23-14, COMA RICH COLDWATER KS 67029	DIRECT CORRESPONDENCE TO: P.O. Box 1598 Liberal, KS 67905-1598 (316) 624-3879	Invoice No.	Date
		90237314	12/21/1999
		Customer PO No.	Date
		N/A	
		Delivery No.	Date
		80421654	12/14/1999
		Order/Ticket No.	Date
		337828	12/13/1999
		Shipping Point	Manual Ticket No.
		LIBERAL Shipping Poi	
		Service Location	Customer No.
		Liberal, KS, USA	305241
		Payment Terms	Payment Due Date
		Net due in 20 days	01/10/2000

TO:
SAM GARY JR & ASSOC
1670 BROADWAY SUITE 3300
DENVER CO 80202-4838
USA

Job Location	Order/Ticket No.	Date
Land	337828	12/13/1999
Shipping Point	Manual Ticket No.	
LIBERAL Shipping Poi		
Service Location	Customer No.	
Liberal, KS, USA	305241	
Payment Terms	Payment Due Date	
Net due in 20 days	01/10/2000	

Reference Number	Description	QTY	U/M	Unit Price	Amount
7523	PSL-CMT CEMENT PRODUCTION CASING-BOM JP035	1	JOB		
1	MILEAGE FROM NEAREST HES BASE,/UNIT,ZI Discount : \$245.28- With the following configuration: Number of Units 000-117	140	MI		511.00
2	MILEAGE FOR CEMENTING CREW,ZI Discount : \$144.48- With the following configuration: Number of Units 000-119	140	MI	2.15	301.00
15	MULTIPLE STAGE CEMENTING - 1ST STAGE Discount : \$1,264.32- With the following configuration: CHARGE BY FT OR RANGE OF FEET 007-013 <input type="checkbox"/> DRLG <input checked="" type="checkbox"/> COMP <input type="checkbox"/> W/O <input type="checkbox"/> LOE AFE # <u>2314</u> ACCT # <u>137/32</u> APPROVED BY <u>J.C. [Signature]</u>	1	UN	2,634.00	2,634.00
		6,170	ft		

KANSAS CORPORATION COMMISSION
MAR 14 2000
CONSERVATION DIVISION
WICHITA, KS
RELEASED
APR 25 2002
FROM CONFIDENTIAL
KCC
MAR 15 2000
CONFIDENTIAL

Terms: If customer does not have an approved open account with Halliburton, all sums are payable in cash at the time of performance of services or delivery of equipment, products, or materials. If customer has an approved open account, Invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any amount, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

CONFIDENTIAL

ORIGINAL



Continuation	
Invoice No.	Date
90237314	12/21/1999

INVOICE

Halliburton Energy Services, Inc.

KCC

MAR 15 2000

RELEASED

APR 23 2002

FROM CONFIDENTIAL

Reference Number	Description	QTY	U/M	Unit Price	Amount
16	MULTIPLE STAGE CEMENTING - 2ND STAGE Discount : \$900.00- With the following configuration: Number of Units 007-161	1	STG	1,875.00	1,875.00
132	PORTABLE DAS,/DAY/JOB,ZI Discount : \$364.80- With the following configuration: NUMBER OF DAYS 045-050	1	JOB	760.00	760.00
100003639	CHEMICAL - HALLIBURTON SUPER FLUSH Discount : \$1,935.36- 516.00114 CHEMICAL - HALLIBURTON SUPER FLUSH	36	SK	112.00	4,032.00
86	CSG SWIVEL,ROTATG HEAD,W/O RW CLNR,ZI Discount : \$148.80- With the following configuration: NUMBER OF JOBS 019-241	1	EA	310.00	310.00
15077	SBM MIDCON 2 PREMIUM Discount : \$2,487.50- 504-281	290	SK	17.87	5,182.30
100005053	CALCIUM CHLORIDE - HI TEST PELLETT - Discount : \$135.07- 509-406890.50812 CALCIUM CHLORIDE - HI TEST PELLETT - 94-97% CACL 2 - 80# BAG	6	SK	46.90	281.40

RECEIVED
KANSAS CORPORATION COMMISSION

MAR 14 2000

CONSERVATION DIVISION

WICHITA, KS

Terms: If customer does not have an approved open account with Halliburton, all sums are payable in cash at the time of performance of services or delivery of equipment, products, or materials. If customer has an approved open account, Invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any amount, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

CONFIDENTIAL

ORIGINAL



Continuation	
Invoice No.	Date
90237314	12/21/1999

INVOICE

Halliburton Energy Services, Inc.

KCC

MAR 15 2000

CONFIDENTIAL

Reference Number	Description	QTY	U/M	Unit Price	Amount
100003653	CHEMICAL - CFR-3 - 50 LB SACK Discount : \$404.42- 507-153516.00161 CHEMICAL - CFR-3 - 50 LB SACK	137	LB	6.15	842.55
100005049	FLOCELE - 3/8 - 25 LB SACK Discount : \$73.23- XXXXXXX 890.50071 FLOCELE - 3/8 - 25 LB SACK	73	LB	2.09	152.57
100003700	CHEMICAL-Gilsonite (Bulk) Discount : \$403.68- 508-292516.00337 CHEMICAL - GILSONITE - BULK	1,450	LB	0.58	841.00
100003670	CHEMICAL - HALAD-344 - 50 LB SACK Discount : \$1,720.80- XXXXXXX 516.00227 CHEMICAL - HALAD-344 - 50 LB SACK	109	LB	32.89	3,585.01
3965	HANDLE&DUMP SVC CHR, CMT&ADDITIVES,ZI Discount : \$278.88- With the following configuration: NUMBER OF EACH 500-207	350	CF	1.66	581.00
3975	MILEAGE,CMTG MTLs DEL/RETURNED,ZI Discount : \$642.00- With the following configuration: NUMBER OF TONS 500-306	1,070	TMI	1.25	1,337.50

APR 25 2002

FROM CONFIDENTIAL

RECEIVED KANSAS CORPORATION COMMISSION

MAR 14 2000

CONSERVATION DIVISION WICHITA, KS

Terms: If customer does not have an approved open account with Halliburton, all sums are payable in cash at the time of performance of services or delivery of equipment, products, or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any amount, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.



ORIGINAL

Halliburton Energy Services, Inc.

ITEM	MATERIAL	LOCATION	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
40	15	Liberal, KS, USA Hwy 54 West	MULTIPLE STAGE CEMENTING - 1ST STAGE	1.00	UN	2,634.00	2,634.00
				1.00	UN	1,264.32-	1,264.32-
				1.00	UN	1,369.68	1,369.68
			007-013				
			With the following configuration:				
			CHARGE BY FT OR RANGE OF FEET	6,170	ft		
50	16	Liberal, KS, USA Hwy 54 West	MULTIPLE STAGE CEMENTING - 2ND STAGE	1.00	STG	1,875.00	1,875.00
				1.00	STG	900.00-	900.00-
				1.00	STG	975.00	975.00
			007-161				
			With the following configuration:				
			Number of Units	1	unit		
60	132	Liberal, KS, USA Hwy 54 West	PORTABLE DAS,/DAY/JOB,ZI	1.00	JOB	760.00	760.00
				1.00	JOB	364.80-	364.80-
				1.00	JOB	395.20	395.20
			045-050				
			With the following configuration:				
			NUMBER OF DAYS	1	Days		
70	100003639	Liberal, KS, USA Hwy 54 West	CHEMICAL - HALLIBURTON SUPER FLUSH	36.00	SK	112.00	4,032.00
				36.00	SK	53.76-	1,935.36-
				36.00	SK	58.24	2,096.64
			516.00114				
			CHEMICAL - HALLIBURTON SUPER FLUSH				
80	15077	Hugoton, KS, USA	SBM MIDCON 2 PREMIUM	290.00	SK	17.87	5,182.30
				290.00	SK	8.58-	2,487.50-
				290.00	SK	9.29	2,694.80
			504-281				

RECEIVED
KANSAS CORPORATION COMMISSION

MAR 14 2000

CONSERVATION DIVISION
WICHITA, KS

CONFIDENTIAL

MAR 15 2000

KCC

CONFIDENTIAL

FROM CONFIDENTIAL

APR 25 2002

RELEASED

ORIGINAL



HALLIBURTON® CONFIDENTIAL

HALLIBURTON ORDER NO: 337828 Cont. SAM GARY JR & ASSOC

ORIGINAL

Halliburton Energy Services, Inc.

ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
120	100005053 Hugoton, KS, USA	CALCIUM CHLORIDE - HI TEST PELLET -	6.00	SK	46.90	281.40
			6.00	SK	22.51-	135.07-
			6.00	SK	24.39	146.33
			509-406890.50812			
130	100003653 Hugoton, KS, USA	CHEMICAL - CFR-3 - 50 LB SACK	137.00	LB	6.15	842.55
			137.00	LB	2.95	404.42-
			137.00	LB	3.20	438.13
			507-153516.00161			
140	100005049 Hugoton, KS, USA	FLOCELE - 3/8 - 25 LB SACK	73.00	LB	2.09	152.57
			73.00	LB	1.00-	73.23-
			73.00	LB	1.09	79.34
			XXXXXXXX 890.50071			
150	100003700 Hugoton, KS, USA	CHEMICAL-Gilsonite (Bulk)	1,450.00	LB	0.58	841.00
			1,450.00	LB	0.28-	403.68-
			1,450.00	LB	0.30	437.32
			508-292516.00337			
160	100003670 Hugoton, KS, USA	CHEMICAL - HALAD-344 - 50 LB SACK	109.00	LB	32.89	3,585.01
			109.00	LB	15.79-	1,720.80-
			109.00	LB	17.10	1,864.21
			XXXXXXXX 516.00227			
		CHEMICAL - HALAD-344 - 50 LB SACK				

RECEIVED
KANSAS CORPORATION COMMISSION

MAR 14 2000

CONSERVATION DIVISION
WICHITA, KS

CONFIDENTIAL

FROM CONFIDENTIAL

APR 25 2002

RELEASED

CONFIDENTIAL

MAR 13 2000

KCC

ORIGINAL

BURTON

JOB SUMMARY

CONFIDENTIAL

TICKET # **337828** TICKET DATE **12-14-99**

North America	NWA/COUNTRY Midcontinent	BDA / STATE KS	COUNTY Comanche
EMP # McIntyre 105943	EMPLOYEE NAME R. Crist	PSL DEPARTMENT ZI	
LOCATION Liberal KS	COMPANY Sam Gary Assoc	CUSTOMER REP / PHONE Tom Larsen	
TICKET AMOUNT 12,625.66	WELL TYPE O1	API / UWI #	
WELL LOCATION Land	DEPARTMENT ZI	JOB PURPOSE CODE 035	
LEASE / WELL Rich 23-14	SEC / TWP / RNG 23-32S-19W		

ORIGINAL

HES EMP NAME/EMP#/(EXPOSURE HOURS) ;HRS R Crist 105942 //	HES EMP NAME/EMP#/(EXPOSURE HOURS) ;HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) ;HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) ;HRS KCC
B McIntyre //			
D Bennett //			

RELEASED

MAR 13 2000

HES UNIT NUMBERS 426621	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
54038-77941							
57947-6611							

FROM CONFIDENTIAL

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type **DL** Set At **5270**
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth **6170**

	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE	12-13-99	12-14-99	12-14-99	12-14-99
TIME	2330	0410	0645	1500

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar C		
Float Shoe		
Guide Shoe O		
Centralizers M A		
Bottom Plug		
Top Plug		
Head		
Packer		
Other		

WELL DATA

NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing N	15.5	5 1/2	KB	6170	
Liner					
Liner					
Tbg/D.P.					
Tbg/D.P.					
Open Hole					SHOTS/FT.
Perforations					
Perforations					
Perforations					

MATERIALS

Treat Fluid _____ Density _____ Lb/Gal	
Disp. Fluid _____ Density _____ Lb/Gal	
Prop. Type _____ Size _____ Lb.	
Prop. Type _____ Size _____ Lb.	
Acid Type _____ Gal. _____ %	
Acid Type _____ Gal. _____ %	
Surfactant _____ Gal. _____ In	
NE Agent _____ Gal. _____ In	
Fluid Loss _____ Gal/Lb _____ In	
Gelling Agent _____ Gal/Lb _____ In	
Fric. Red. _____ Gal/Lb _____ In	
Breaker _____ Gal/Lb _____ In	
Blocking Agent _____ Gal/Lb	
Perfpac Balls _____ Qty.	
Other _____	
Other _____	
Other _____	
Other _____	

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				RECEIVED
				KANSAS CORPORATION COMMISSION
				MAR 13 2000
				CONSERVATION DIVISION
				WICHITA, KS
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER

ORDERED	Avail.	Used
TREATED	AVERAGE RATES IN BPM	Overall
FEET 87	CEMENT LEFT IN PIPE	Reason Slave

CEMENT DATA

TAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	110	Midcon H	B	2% cc, 1/4" Flacel, 5% Gilsomite, 5% CTRC, 1/16" P. Haled 344	1.92	13.00
	150	Midcon H	B	Same as Above	1.92	13.00

Circulating _____ Displacement **144 125** Preflush: Gal - BBI **15 X 2** Type **Super 645**
 Breakdown _____ Maximum _____ Load & Bkdn: Gal - BBI _____ Pad: BBI - Gal
 Average _____ Frac Gradient _____ Treatment Gal - BBI _____ Disp: BBI - Gal
 Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal - BBI _____
 Total Volume Gal - BBI _____

3c Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____
 THE INFORMATION STATED HEREIN IS CORRECT CUSTOMER'S REPRESENTATIVE SIGNATURE **T. C. Person**

BURTON

CONFIDENTIAL

JOB LOG

ORDER NO. 70006

TICKET #

TICKET DATE

North America	NWA/COUNTRY	BDA / STATE	COUNTY
MBU ID / EMP #	EMPLOYEE NAME	PSL DEPARTMENT	
LOCATION	COMPANY	CUSTOMER REP / PHONE	KCC
TICKET AMOUNT	WELL TYPE	API / UWI #	MAR 15 2000
WELL LOCATION	DEPARTMENT	JOB PURPOSE CODE	CONFIDENTIAL
LEASE / WELL #	SEC / TWP / RNG		

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	232							Call out
	0710							on loc
	0645							Csg Run Hook To Circulate
	0700							Circulate on Bottom Safety meeting
	0830							Hook To CNT
	0858							Press Test 2400 PSI
	0902	3	5					Pump H2O
	0903	6	18			300		Pump Super-Flush
	0905	6	5			300		Pump H2O
	0907	7	38			400		Pump CNT
	0917							Shut Down Drop Plug
	0923	7	184					Pump Disp
	0951	2	10					Bump Plug
	1000							Drop Opening Tool
	1030							Open DV Tool (Circ with Pig)
	1330							Mix Super-Flush
	1342							Plug Rat + Mouse Hole
	1357	2	5			240		Pump H2O
	1402	7	18			200		Pump Super-Flush
	1403	2	5			200		Pump H2O
	1408	7	61			230		Pump CNT
	1415							Wash Pump Lines Drop Plug
	1418	7	115			0-472		Pump Displacement
	1434	3	71			470-600		Slow Rate
						600-1200		Bump Plug Close DV Tool

RELEASED

APR 25 2002

FROM CONFIDENTIAL

Thank you

RECEIVED
KANSAS CORPORATION COMMISSION

MAR 14 2000

CONSERVATION DIVISION
WICHITA, KS

CONFIDENTIAL

ORIGINAL

TRILOBITE TESTING L.L.C.

OPERATOR : Samuel Gary Jr.Assoc. DATE 12-06-99
 WELL NAME: Rich #23-14 Comanche Co. KB 1993.00 ft TICKET NO: 12397 DST #1
 LOCATION : 23-32s-19w Comanche co KS GR 1980.00 ft FORMATION: Pawnee/Ft.Scott
 INTERVAL : 5006.00 To 5042.00 ft TD 5042.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 10	Rec.	10248	10248	2342			PF Fr. 1905 to 1915 hr
SI 90	Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 1915 to 2045 hr
SF 75	Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 2045 to 2200 hr
FS 210	Depth(ft)	5039.0	5039.0	5012.0	0.0	0.0	FS Fr. 2200 to 0130 hr

	Field	1	2	3	4	
A. Init Hydro	2426.0	2441.0	2398.0	0.0	0.0	T STARTED 1649 hr
B. First Flow	18.0	23.0	47.0	0.0	0.0	T ON BOTM 1900 hr
B1. Final Flow	18.0	23.0	32.0	0.0	0.0	T OPEN 1905 hr
C. In Shut-in	1769.0	1761.0	1782.0	0.0	0.0	T PULLED 0133 hr
D. Init Flow	28.0	45.0	25.0	0.0	0.0	T OUT 0350 hr
E. Final Flow	28.0	45.0	45.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	1853.0	0.0	0.0	
G. Final Hydro	0.0	0.0	2348.0	0.0	0.0	
Inside/Outside	0	0	I	T		

TOOL DATA-----

Tool Wt.	2100.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	78000.00 lbs
Initial Str Wt	72000.00 lbs
Unseated Str Wt	72000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	295.00 ft
D.P. Length	4704.00 ft

RECOVERY

Tot Fluid 60.00 ft of 60.00 ft in DC and 0.00 ft in DP
 2800.00 ft of Gas in pipe.
 60.00 ft of Drilling mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of Rw n.c. ohms @ degrees F.
 0.00 ft of EST.FT. of PAY-----8
 SALINITY 8000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	48.00 S/L
W.L.	7.60 in3
F.C.	0.20 in
Mud Drop N	

BLOW DESCRIPTION

Initial Flow:
 Strong blow bottom of bucket in
 9 mins.
 Initial Shut-in:
 No blow.
 Final Flow:
 Strong blow bottom of bucket in
 10 secs.
 Final Shut-in:
 No blow

KCC

MAR 13 2000

CONFIDENTIAL

RECEIVED

KANSAS CORPORATION COMMISSION

RELEASED

MAR 14 2000

APR 25 2002

CONSERVATION DIVISION
WICHITA, KS

Amt. of fill	0.00 ft
Btm. H. Temp.	120.00 F
Hole Condition	good
% Porosity	10.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased N	
Tester	Gary Pevoteaux
Co. Rep.	Dale Padgett
Contr.	Duke Drlg.
Rig #	7
Unit #	
Pump T.	LCM 3#/bl

Test Successful: Y

SAMPLES: none

SENT TO: Caraway/

FROM CONFIDENTIAL

CONFIDENTIAL

*** TOOL DIAGRAM *** CONVENTIONAL

ORIGINAL

WELL NAME: Rich #23-14 Comanche Co.
 LOCATION : 23-32s-19w Comanche co KS
 TICKET No. 12397 D.S.T. No. 1 DATE 12-06-99
 TOTAL TOOL TO BOTTOM OF TOP PACKERS 30
 INTERVAL TOOL
 BOTTOM PACKERS AND ANCHOR 36
 TOTAL TOOL 66
 DRILL COLLAR ANCHOR IN INTERVAL
 D.C. ANCHOR STND.Stands Single Total
 D.P. ANCHOR STND.Stands Single Total
 TOTAL ASSEMBLY 66
 D.C. ABOVE TOOLS.Stands5 Single Total 295
 D.P. ABOVE TOOLS.Stands75 Single 1 Total 4704
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5065
 TOTAL DEPTH 5042
 TOTAL DRILL PIPE ABOVE K.B. 23

REMARKS:
 Comments:AK-1 chart stops approx. 30 mins
 in to second open.

FLUID SAMPLER DATA

GAS----- 3.35cubic ft
 OIL----- none ML.
 MUD----- trace ML.
 WATER----- none ML.
 OTHER----- cuttings
 PRESSURE----- 910 PSI
 Rw -----n.c ohms @ deg. F.
 CHLORIDES----- n/a ppm.
 GRAVITY----- n/a deg.API

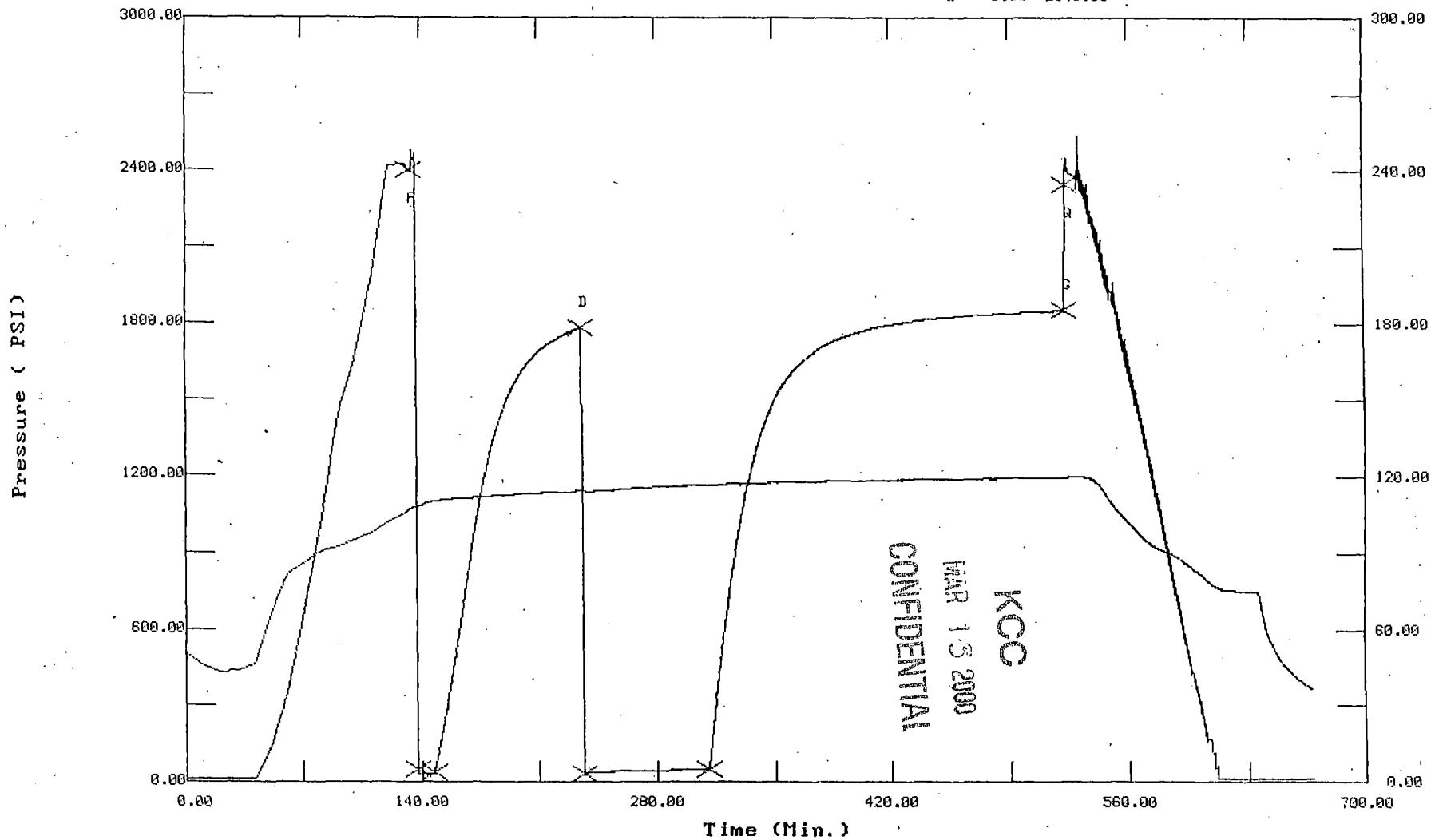
P.O. SUB
 C.O. SUB @ top of tool 4976
 S.I. TOOL Sterling 4982
 Sampler 4985
 HMV Sterling 4990
 JARS Bowen 4995
 SAFETY JOINT Bowen 4997
 PACKER Top 5001
 PACKER Btm. 5006
 DEPTH 5006
 1 ft. 5007
 ANCHOR
 perfs
 Alpine rec. @ 5012
 KCC
 MAR 13 2000
 CONFIDENTIAL
 30' perfs to 5037
 AK-1 rec. @ 5039
 BULLNOSE 5 ft. perforated 5042
 T.D.

TEST HISTORY

12397 DST#1 RICH #23-14 SAMUEL GARY JR. & ASSOC.

Flag Points

	t (Min.)	P (PSI)
A:	0.00	2397.90
B:	0.00	46.92
C:	9.83	32.14
D:	89.33	1781.96
E:	0.00	25.09
F:	73.83	45.32
G:	212.83	1852.71
Q:	0.00	2348.30



CONFIDENTIAL

ORIGINAL

CONFIDENTIAL

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : Samuel Gary Jr.Assoc. DATE 12-07-99
 WELL NAME: Rich #23-14 Comanche Co. KB 1993.00 ft TICKET NO: 12398 DST #2
 LOCATION : 23-32s-19w Comanche co KS GR 1980.00 ft FORMATION: Miss.
 INTERVAL : 5121.00 To 5180.00 ft TD 5180.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA
PF 10 Rec.	10248	10248	2342			PF Fr. 1918 to 1285 hr
SI 90 Range (Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 1928 to 2058 hr
SF 90 Clock (hrs)	12 hr	12 hr	batt.			SF Fr. 2058 to 2228 hr
FS 300 Depth(ft)	5177.0	5177.0	5131.0	0.0	0.0	FS Fr. 2228 to 0328 hr

	Field	1	2	3	4	
A. Init Hydro	2536.0	2530.0	2551.0	0.0	0.0	T STARTED 1653 hr
B. First Flow	200.0	200.0	401.0	0.0	0.0	T ON BOTM 1912 hr
B1. Final Flow	171.0	189.0	176.0	0.0	0.0	T OPEN 1918 hr
C. In Shut-in	1813.0	1810.0	1831.0	0.0	0.0	T PULLED 0329 hr
D. Init Flow	205.0	157.0	312.0	0.0	0.0	T OUT 0550 hr
E. Final Flow	100.0	96.0	97.0	0.0	0.0	
F. Fl Shut-in	1732.0	1740.0	1750.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2470.0	2491.0	2456.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I	T		Wt Set On Packer 20000.00 lbs

RECOVERY

Tot Fluid 130.00 ft of 130.00 ft in DC and 0.00 ft in DP
 0.00 ft of Gas in all fluid free pipe.
 130.00 ft of Drilling mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of Rw n.c. ohms @ degrees F.
 0.00 ft of EST.FT. of PAY-----24
 SALINITY 8000.00 P.P.M. A.P.I. Gravity 0.00

Wt Pulled Loose 78000.00 lbs
 Initial Str Wt 72000.00 lbs
 Unseated Str Wt 72000.00 lbs
 Bot Choke 0.75 in
 Hole Size 7.88 in
 D Col. ID 2.25 in
 D. Pipe ID 3.80 in
 D.C. Length 295.00 ft
 D.P. Length 4799.00 ft

MUD DATA-----
 Mud Type Chemical
 Weight 9.10 lb/cf
 Vis. 50.00 S/L
 W.L. 9.60 in3
 F.C. 0.20 in
 Mud Drop N

Amt. of fill 0.00 ft
 Btm. H. Temp. 120.00 F
 Hole Condition good
 % Porosity 10.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00 N
 Cushion Type None
 Reversed Out N
 Tool Chased N
 Tester Gary Pevoteaux
 Co. Rep. Dale Padgett
 Contr. Duke Drlg.
 Rig # 7
 Unit #
 Pump T. LCM 2#/bl

BLOW DESCRIPTION

Initial Flow:
 Strong blow gas to surface in 3 mins.
 (see gas volume report)
 Initial Shut-in:
 No blow
 Final Flow:
 Strong blow (see gas volume report)
 Final Shut-in:
 No blow

RECEIVED
 KANSAS CORPORATION COMMISSION

MAR 14 2000

CONSERVATION DIVISION
 WICHITA, KS

KCC

MAR 13 2000

CONFIDENTIAL

SAMPLES: Gas sample
 SENT TO: Caraway/Liberal

Test Successful: Y

CONFIDENTIAL GAS RECOVERY

ORIGINAL

COMPANY: Samuel Gary Jr. Assoc.

DATE: 12-07-99

WELL NAME: Rich #23-14 Comanche Co.

KB Elev: 1993.00 ft TICKET #12398 DST #2

WELL LOCATION: 23-32s-19w Comanche co KS

GR Elev: 1980.00 ft FORMATION: Miss.

INTERVAL Fr.: 5121.00 To 5180.00 T.D.: 5180.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Adjusting Choke

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.75	28	0	619400.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.75	34	0	706600.0
20	0.75	27	0	604900.0
30	0.75	22	0	532200.0
40	0.75	20	0	503100.0
50	0.75	18	0	474000.0
60	0.75	17	0	459500.0
70	0.75	16	0	444900.0
80	0.75	16	0	444900.0
90	0.75	15	0	430400.0

KCC
MAR 15 2000
CONFIDENTIAL

CONFIDENTIAL

ORIGINAL

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Rich #23-14 Comanche Co.
 LOCATION : 23-32s-19w Comanche co KS
 TICKET No. 12398 D.S.T. No. 2 DATE 12-07-99
 TOTAL TOOL TO BOTTOM OF TOP PACKERS 30
 INTERVAL TOOL
 BOTTOM PACKERS AND ANCHOR 28
 TOTAL TOOL 58
 DRILL COLLAR ANCHOR IN INTERVAL
 D.C. ANCHOR STND.Stands Single Total
 D.P. ANCHOR STND.Stands Single 1 Total 31
 TOTAL ASSEMBLY 89
 D.C. ABOVE TOOLS.Stands5 Single Total 295
 D.P. ABOVE TOOLS.Stands77 Single Total 4799
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5183
 TOTAL DEPTH 5180
 TOTAL DRILL PIPE ABOVE K.B. 3
 REMARKS:
 Comments:

FLUID SAMPLER DATA

GAS----- 9.4 cubic ft
 OIL----- none ML.
 MUD----- none ML.
 WATER----- none ML.
 OTHER----- cuttings
 PRESSURE----- 600 PSI
 Rw -----n.c ohms @ deg. F.
 CHLORIDES----- n/a ppm.
 GRAVITY----- n/a deg.API

P.O. SUB
 C.O. SUB @ top of tool 5091
 S.I. TOOL Sterling 5097
 Sampler 5100
 HMV Sterling 5105
 JARS Bowen KCC 5110
 SAFETY JOINT Bowen 5112
 PACKER Top 5116
 PACKER Btm. 5121
 DEPTH 5121
 1 ft. 5122
 ANCHOR
 perfs
 Alpine rec. @ 5131
 21'perfs & sub to 5143
 1 jt.pipe & sub to 5175
 AK-1 rec. @ 5177
 BULLNOSE 5 ft. perforated 5180
 T.D.

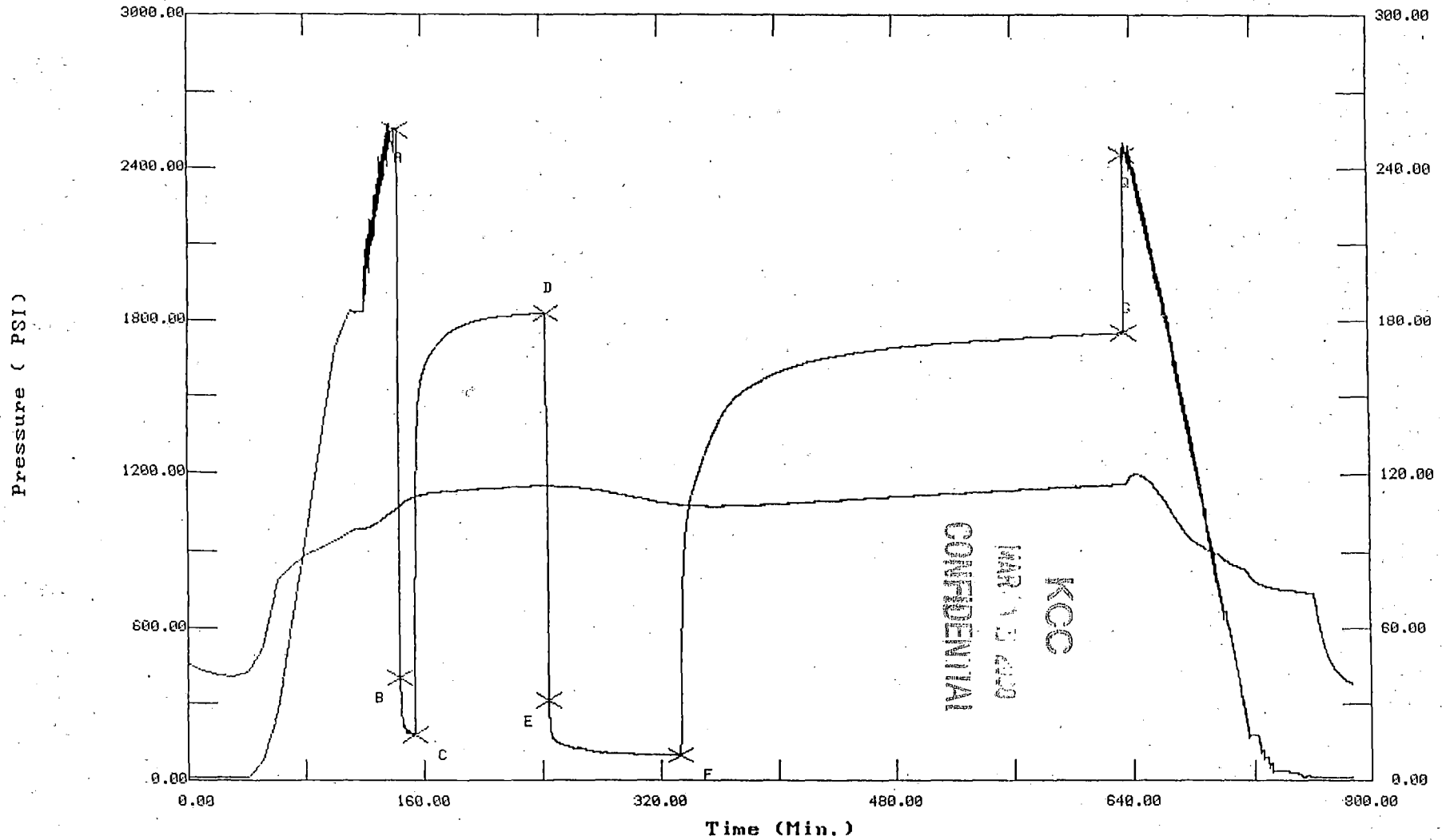
KCC
 MAR 13 2000
 CONFIDENTIAL

TEST HISTORY

12398 DST#2 RICH #23-14 SAMUEL GARY JR.

Flag Points

	t (Min.)	P (PSI)
A:	0.00	2550.99
B:	0.00	400.59
C:	9.75	176.33
D:	90.00	1830.72
E:	0.00	312.38
F:	89.75	96.74
G:	301.00	1749.90
Q:	0.00	2456.06



CONFIDENTIAL

Temperature (DEG F)

ORIGINAL

CONFIDENTIAL

ORIGINAL

TRILOBITE TESTING L.L.C.

OPERATOR : Samuel Gary Jr.Assoc.

DATE 12-10-99

WELL NAME: Rich #23-14 Comanche Co. KB

1993.00 ft

TICKET NO: 12399 DST #3

LOCATION : 23-32s-19w.Comanche co KS GR

1980.00 ft

FORMATION: Viola

INTERVAL : 5780.00 To 5798.00 ft TD

5798.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 10 Rec.	10248	10248	2342			PF Fr. 1540 to 1550 hr
SI 90 Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 1550 to 1720 hr
SF 30 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 1720 to 1750 hr
FS 90 Depth(ft)	5795.0	5795.0	5785.0	0.0	0.0	FS Fr. 1750 to 1920 hr

	Field	1	2	3	4
A. Init Hydro	2801.0	2777.0	2837.0	0.0	0.0
B. First Flow	1401.0	1410.0	1461.0	0.0	0.0
B1. Final Flow	1522.0	1508.0	1583.0	0.0	0.0
C. In Shut-in	2085.0	2069.0	2126.0	0.0	0.0
D. Init Flow	1329.0	1325.0	1356.0	0.0	0.0
E. Final Flow	1522.0	1514.0	1560.0	0.0	0.0
F. Fl Shut-in	2078.0	2070.0	2107.0	0.0	0.0
G. Final Hydro	2783.0	2763.0	2822.0	0.0	0.0
Inside/Outside	O	O	I	T	

T STARTED 1320 hr
T ON BOTM 1535 hr
T OPEN 1540 hr
T PULLED 1922 hr
T OUT 2150 hr

TOOL DATA-----
Tool Wt. 2100.00 lbs
Wt Set On Packer 20000.00 lbs
Wt Pulled Loose 88000.00 lbs
Initial Str Wt 78000.00 lbs
Unseated Str Wt 78000.00 lbs
Bot Choke 0.75 in
Hole Size 7.88 in
D Col. ID 2.25 in
D. Pipe ID 3.80 in
D.C. Length 295.00 ft
D.P. Length 5485.00 ft

RECOVERY

Tot Fluid 35.00 ft of 35.00 ft in DC and 0.00 ft in DP
0.00 ft of Gas in all fluid free pipe.
35.00 ft of Clean condensate.
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of Rw n.c. ohms @ degrees F.
0.00 ft of EST.FT. of PAY-----12

SALINITY 0.00 P.P.M. A.P.I. Gravity 51.00

RECEIVED
KANSAS CORPORATION COMMISSION
MAR 14 2000
CONSERVATION DIVISION
WICHITA, KS

BLOW DESCRIPTION

Initial Flow:
Strong blow gas to surface in
2 mins. (see gas volume report)
Initial Shut-in:
Weak blow. (1/2 - 1")
Final Flow:
Strong blow (see gas volume report)
Final Shut-in:
Weak blow 1 - 2"

MUD DATA-----
Mud Type
Weight 9.20 lb/cf
Vis. 57.00 s/L
W.L. 6.80 in3
F.C. 0.20 in
Mud Drop N
Amt. of fill 0.00 ft
Btm. H. Temp. 130.00 F
Hole Condition good
% Porosity 22.00
Packer Size 6.75 in
No. of Packers 2
Cushion Amt. 0.00 N
Cushion Type None
Reversed Out N
Tool Chased N
Tester Gary Pevoteaux
Co. Rep. Dale Padgett
Contr. Duke Drlg.
Rig # 7
Unit #
Pump T. LCM 6#/bl

KCC
MAR 15 2000
CONFIDENTIAL

SAMPLES: Gas sample
SENT TO:Caraway/Liberal

Test Successful: Y

CONFIDENTIAL

ORIGINAL

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Rich #23-14 Comanche Co.
 LOCATION : 23-32s-19w Comanche co KS
 TICKET No. 12399 D.S.T. No. 3 DATE 12-10-99
 TOTAL TOOL TO BOTTOM OF TOP PACKERS 30
 INTERVAL TOOL
 BOTTOM PACKERS AND ANCHOR 18
 TOTAL TOOL 48
 DRILL COLLAR ANCHOR IN INTERVAL
 D.C. ANCHOR STND.Stands Single Total
 D.P. ANCHOR STND.Stands Single Total
 TOTAL ASSEMBLY 48
 D.C. ABOVE TOOLS.Stands5 Single Total 295
 D.P. ABOVE TOOLS.Stands88 Single Total 5485
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5828
 TOTAL DEPTH 5798
 TOTAL DRILL PIPE ABOVE K.B. 30

REMARKS:
Comments:

FLUID SAMPLER DATA

GAS----- 16.1cubic ft
 OIL----- none ML.
 MUD----- none ML.
 WATER----- none ML.
 OTHER----- condensate - 54 ML.
 PRESSURE----- 1405 PSI
 Rw -----n.c. ohms @ deg. F.
 CHLORIDES----- n/a ppm.
 GRAVITY----- 51 deg.API

P.O. SUB
 C.O. SUB @ top of tool 5750
 S.I. TOOL Sterling 5756
 Sampler 5759
 HMV Sterling 5764
 JARS Bowen 5769
 SAFETY JOINT Bowen 5771
 PACKER Top 5775
 PACKER Btm. 5780
 DEPTH 5780
 1 ft. 5781
 ANCHOR
 perfs
 Alpine rec. @ 5785
 12' perfs to 5793
 AK-1 rec. @ 5795
 BULLNOSE 5 ft. perforated 5798
 T.D.

KCC
 MAR 13 2000
 CONFIDENTIAL

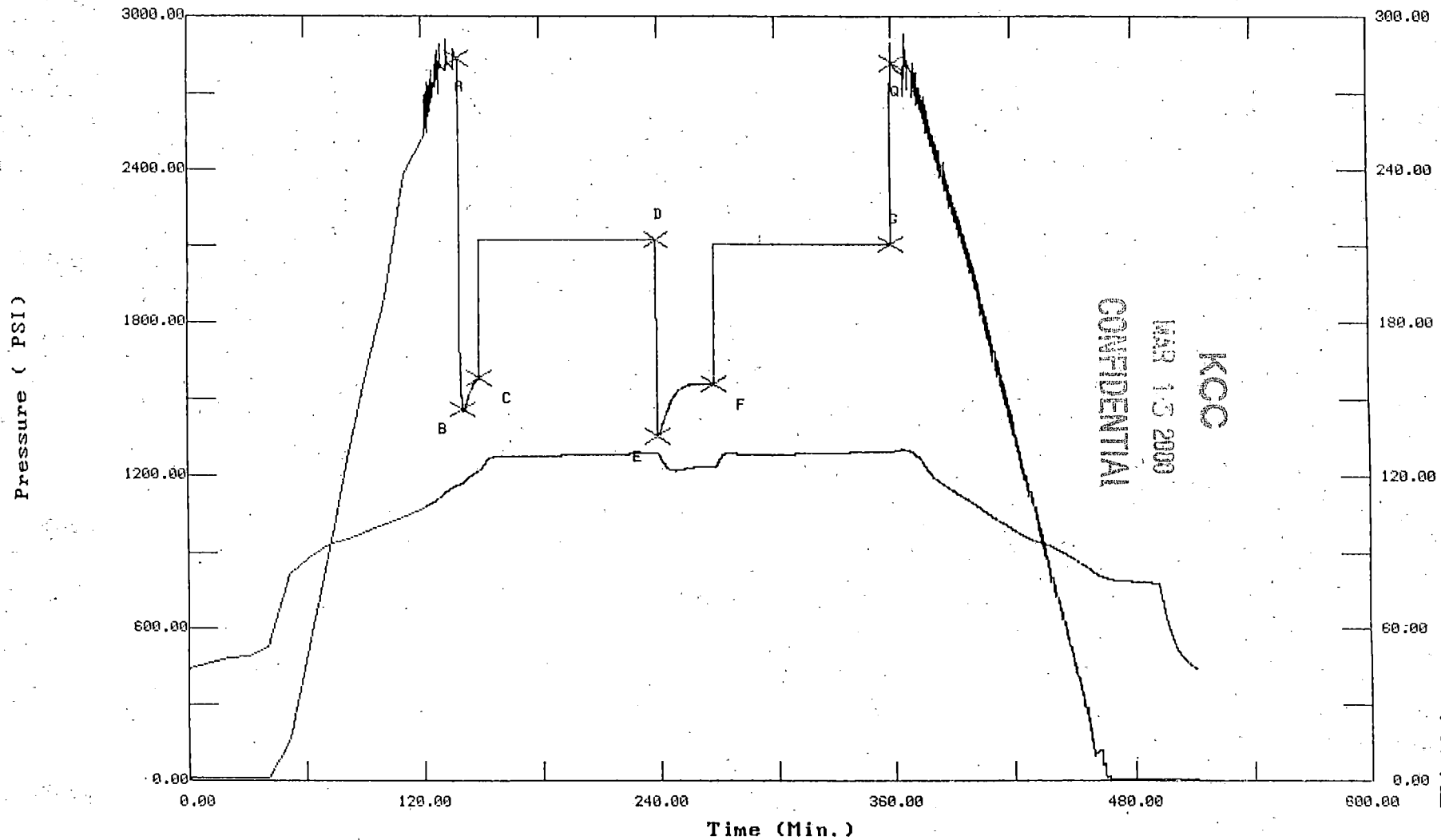
TEST HISTORY

12399 DST#3 RICH #23-14 SAMUEL GARY JR.

Flag Points

t(Min.) P(PSI)

A:	0.00	2838.77
B:	0.00	1460.51
C:	8.42	1583.47
D:	90.08	2125.61
E:	0.00	1355.52
F:	29.08	1559.97
G:	90.58	2106.56
Q:	0.00	2821.99



CONFIDENTIAL

ORIGINAL

CONFIDENTIAL

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : Samuel Gary jr. & Ass.

DATE 12/11/199

WELL NAME: Rich 23-14

KB 1980.00 ft

TICKET NO: 12340

DST #4

LOCATION : 23-32s-19w Comanche co KS

GR 1993.00 ft

FORMATION: Simpson

INTERVAL : 5927.00 To 5940.00 ft

TD 5940.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 10 Rec.	10332	10332	3246			PF Fr. 1915 to 1925 hr
SI 90 Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 1925 to 2055 hr
SF 60 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 2055 to 2155 hr
FS 120 Depth(ft)	5937.0	5937.0	5933.0	0.0	0.0	FS Fr. 2155 to 2355 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	2994.0	0.0	0.0	T STARTED 1638 hr
B. First Flow	0.0	0.0	93.0	0.0	0.0	T ON BOTM 1912 hr
B1. Final Flow	0.0	0.0	343.0	0.0	0.0	T OPEN 1915 hr
C. In Shut-in	0.0	0.0	2175.0	0.0	0.0	T PULLED 2355 hr
D. Init Flow	0.0	0.0	355.0	0.0	0.0	T OUT 0300 hr
E. Final Flow	0.0	0.0	1256.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	2175.0	0.0	0.0	
G. Final Hydro	0.0	0.0	2902.0	0.0	0.0	TOOL DATA-----
Inside/Outside	0	0	I			Tool Wt. 2100.00 lbs

RECOVERY

Tot Fluid 2660.00 ft of 294.00 ft in DC and 2366.00 ft in DP
 120.00 ft of Mud cut water 60%water 40%mud
 2420.00 ft of Salt water 100%water
 120.00 ft of Slight mud cut water 96%water 4%mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	90000.00 lbs
Initial Str Wt	80000.00 lbs
Unseated Str Wt	88000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	294.86 ft
D.P. Length	5610.14 ft

SALINITY 150000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----	
Mud Type	Chemical
Weight	9.30 lb/c
Vis.	56.00 S/L
W.L.	5.60 in3
F.C.	0.32 in
Mud Drop N	

BLOW DESCRIPTION

Initial Flow:
 Fair blow bottom of bucket in 3 mins.
 Initial Shut-in:
 Bled down for 4 mins. built back to-
 2-1/2 ins. slowly died off throughout
 shut in.
 Final Flow:
 Fair blow built to bottom of bucket in
 4 1/2 mins.
 Final Shut-in:
 Bled down for 1-1/2 mins built back-
 to

RECEIVED
KANSAS CORPORATION COMMISSION

MAR 14 2000

CONSERVATION DIVISION
WICHITA, KS

KCC

MAR 13 2000

CONFIDENTIAL

SAMPLES:
SENT TO:

Test Successful: Y

Amt. of fill	0.00 ft
Btm. H. Temp.	143.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out Y	
Tool Chased N	
Tester	Darren L. Amerine
Co. Rep.	Dale Padgett
Contr.	Duke
Rig #	7
Unit #	no
Pump T.	none

CONFIDENTIAL

ORIGINAL

TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Rich 23-14

LOCATION : 23-32s-19w Comanche co KS

TICKET No. 12340 D.S.T. No. 4 DATE 12/11/199

TOTAL TOOL TO BOTTOM OF TOP PACKERS 31

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 13

TOTAL TOOL 44

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.	Stands	Single	Total
D.P. ANCHOR STND.	Stands	Single	Total
TOTAL ASSEMBLY			44
D.C. ABOVE TOOLS.	Stands	5	Single Total 294.86
D.P. ABOVE TOOLS.	Stands	90	Single Total 5610.14

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5949

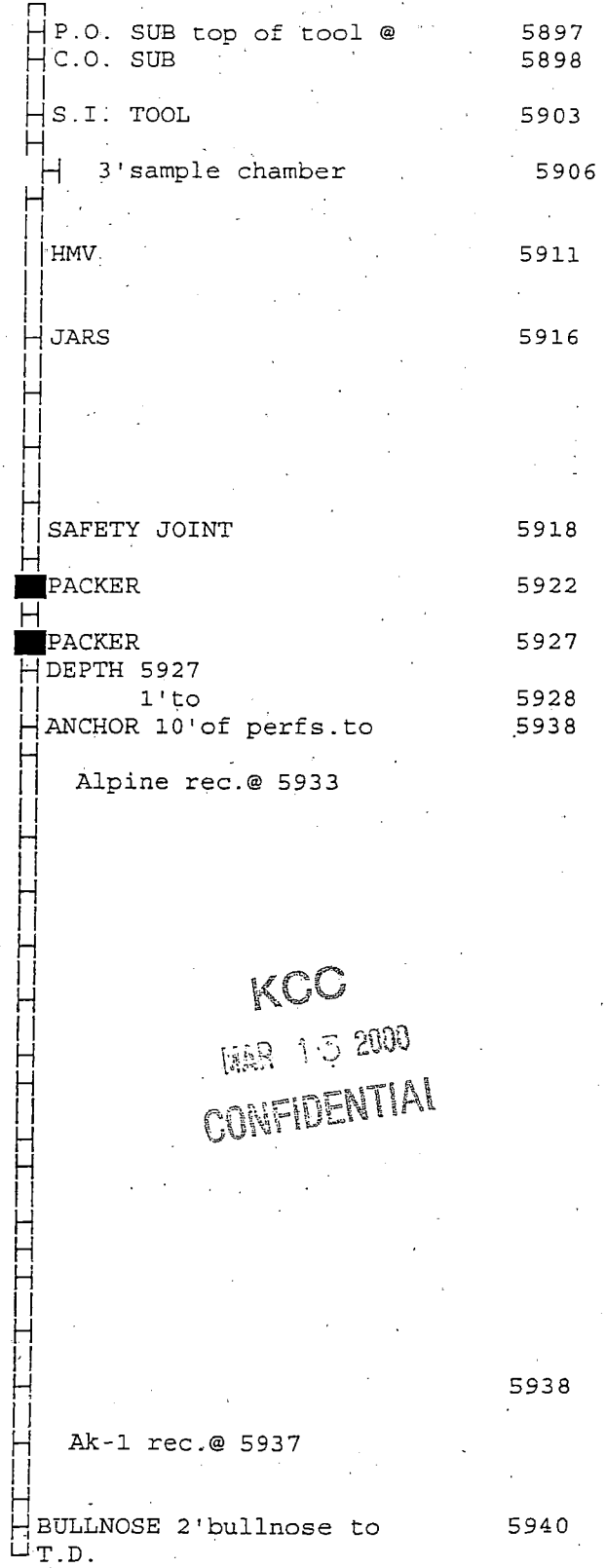
TOTAL DEPTH 5940

TOTAL DRILL PIPE ABOVE K.B. 9

REMARKS:

Fluid sampler data

Sampler recovery	pit mud analysis
Gas-----ML.	chlorides---6800--ppm
oil-----ML.	res-.1--ohms@--68'--F'
mud-----ML.	viscosity---56-----
water--4000--ML.	mud wt.---9.3-----
other-----ML.	filtrate---5.6-----
pressure-300-PSI.	other-----6#LCM-----
total-4000---ML.	



KCC
 MAR 13 2000
 CONFIDENTIAL

TEST HISTORY

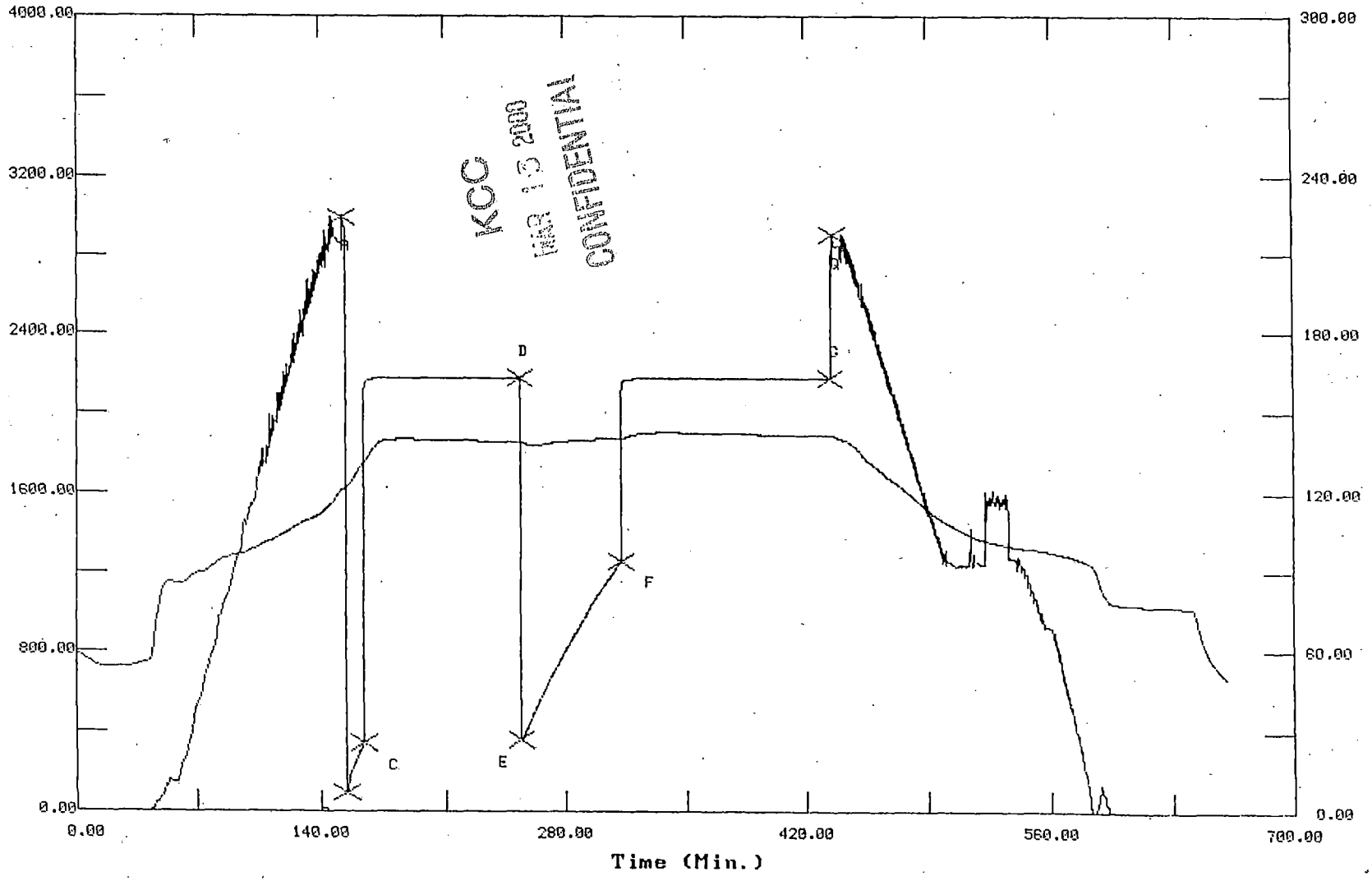
Yk#12340 DST#4 Rich #23-14 Sam Gary, Jr. & Ass.

Flag Points
t(Min.) P(PSig)

A:	0.00	2994.26
B:	0.00	93.47
C:	9.50	342.81
D:	90.50	2174.76
E:	0.00	354.89
F:	58.50	1256.07
G:	121.25	2174.99
Q:	0.00	2902.29

ORIGINAL

CONFIDENTIAL Pressure (PSig)



Temperature (DEG F)

Time (Min.)