

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

CONFIDENTIAL

Operator: License # 3882

Name: SAMUEL GARY JR. & ASSOC.

Address 1670 BROADWAY, SUITE 3300

City/State/Zip DENVER CO 80202

Purchaser: KOCH & GPM

Operator Contact Person: TOM FERTAL

Phone (303) 831-4673 **RELEASED**

Contractor: Name: DUKE DRILLING

License: 5929 **JAN 29 1999**

Wellsite Geologist: DALE PADGETT

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGH
 Dry Other (Cofe, USW, Expl, Cathodic, etc)

If Workover:
Operator: JAN 26 1998

Well Name: _____

Comp. Date CONSERVATION DIVISION
WICHITA, KS

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

9/29/97 10/16/97 12/09/97
Spud Date Date Reached TD Completion Date

API NO. 15- 033-20941-0000

County COMANCHE

SE-SE NW Sec. 16 Twp. 34S Rge. 20 **X** ^E _W

2140 Feet from **S** (circle one) Line of Section

2440 Feet from **E** (circle one) Line of Section

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

Lease Name SELZER Well # 16-2X

Field Name SCHUMACHER NORTH

Producing Formation SWOPE & LANSING KC

Elevation: Ground 1757' KB 1770'

Total Depth 6316' PBTB 6276'

Amount of Surface Pipe Set and Cemented at 707 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 5356 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan Att. 1, 7-7-98 U.C.
(Data must be collected from the Reserve Pit) **KCC**

Chloride content _____ ppm Fluid volume JAN 23 bbls

Dewatering method used _____ **CONFIDENTIAL**

Location of fluid disposal if hauled offsite: _____

Operator Name KBW OIL & GAS

Lease Name HARMON SWD License No. 5993

Quarter 11 Sec. 11 Twp. 33 S Rng. 20 E/W

County COMANCHE Docket No. 22304

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, 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 Thomas G. Fertal

Title Senior Geologist Date 1/20/98

Subscribed and sworn to before me this 20th day of January, 19 98.

Notary Public Thomas G. Shea

Date Commission Expires 3-24-98

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)

Operator Name SAMUEL GARY JR. & ASSOC.

Lease Name SELZER

Well # 16-2X

Sec. 16 Twp. 34S Rge. 20

East
 West

County CGMANCHE

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

Drill Stem Tests Taken Yes No
(Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy.)

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
STONE CORRAL	786'	985'
WABAUNSEE	3185'	-1415'
BASE HEBNER SHALE	4096'	-2326'
LANSING	4264'	-2485'
CHEROKEE	4944'	-3174'
MISSISSIPPIAN	5031'	-3261'
VIOLA	5904'	-4134'
ARBUCKLE	6198'	-4428'

List All E.Logs Run:
ARRAY INDUCTION, SONIC, MICRO RESISTIVITY
SPECTRAL GAMMA RAY, COMPENSATED NEUTRON-Density

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
CONDUCTOR	30"	20"		37'	REDIMIX	24	
SURFACE	12 1/4"	8 5/8"	23 #	707'	CL A	450	CC, GEL
PRODUCTION	7 7/8"	5 1/2"	15.5 #	6316'	50/50POZ	225	GEL, SALT

ADDITIONAL CEMENTING/SQUEEZE RECORD 2ND STAGE 50/50POZ 475 GEL, SALT

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	6200-02, 6215-16, 6233-34, 6254-55	NO ACID CIBP-6175'	
	6271-71'		
4	4900-4916' CIBP - 4875'	3000 GAL ACID	
4	4675-80, 4690-94, 4727-30'		

TUBING RECORD Size 2 7/8" Set At 4770' Packer At 4201' Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. 12/15/97 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	80	80	300	1000-1	

Disposition of Gas: **METHOD OF COMPLETION** Vented Sold Used on Lease (If vented, submit ACO-18.) Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval

ORIGINAL

CONFIDENTIAL

Selzer 16-2X
Section 16-T34S-R20W
Comanche County, Kansas

Perforation Record Continued

4 SPF 4269-4274', 4306-4310', 4313-4317' 1800 gal acid

15-033-20941-0000

RELEASED

JAN 29 1999

FROM CONFIDENTIAL

KCC

JAN 23

CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 26 1998

CONSERVATION DIVISION
WICHITA, KS



ORIGINAL

CEMENTING LOG

STAGE NO.

Date 10-15-91 District Medicine Lodge Ticket No. 6376
 Company SAM Gary Jr + Assoc Rig Duke 7
 Lease Selzer Well No. 211-2X
 County Comanche State KS
 Location Protection S. & W Field 25 SW 45 4E

CASING DATA: PTA Squeeze
 Surface Intermediate Production 2 stage Liner
 Size 52 Type _____ Weight 15.5 Collar _____

Casing Depths: Top 43 Bottom 6321

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 7 7/8 T.D. 6321 ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. .0238 Lin. ft./Bbl. 42.01
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. .0309 Lin. ft./Bbl. 32.40
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

COMPANY REPRESENTATIVE David Rice

CEMENT DATA:
 Spacer Type: 500 Gal Mud Clean
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG _____

CONFIDENTIAL

LEAD: Pump Time _____ hrs. Type CLASS H
50:50:2+10% salt - 5% salt + 5% KCl - Seal
 Amt. 235 Skys Yield 1.51 ft³/sk Density 13.8 PPG _____
 TAIL: Pump Time _____ hrs. Type _____

Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG _____
 WATER: Lead 6.0 gals/sk Tail _____ gals/sk Total 32 Bbls.

Pump Trucks Used 233-302
 Bulk Equip. 201

CONFIDENTIAL

FROM CONFIDENTIAL

Floater Equip: Manufacturer General
 Shoe: Type Regular Guide shoe Depth 6321
 Float: Type DFV Flood Collar Depth 6283
 Centralizers: Quantity 14 Plugs Top _____ Btm. _____
 Stage Collars (1) stage tool + 1 plug - bottom plug
 Special Equip. 2 Baskets
 Disp. Fluid Type Freshwater Amt. 150.75 Bbls. Weight 8.34 PPG _____
 Mud Type _____ Weight _____ PPG _____

CEMENTER Carl Balding

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
1:40						Stage collar 5312 Pipe on bottom mark circulation w/ Rig Pump Circulate for 40 minutes
2:20	400		12	12	6	start mud clean flush
2:23	350		72	60	6	start cement Cement IN stop pumps switch valves + wash pumps + lines Release bottom stage plug
2:35	150		95	23	6	start displacement w/ freshwater start mud displacement
2:40	150		149	34	6	mud clean turn shoe
			161.5	125	4	Cement turn shoe - slow rate
3:00	300		187	253	4	see lift + pressure
	400		196	9	3	slow rate top plug to glass tool
	500		201	5	4	Increase rate
3:08	400		222.75	21.75		dump plug Hold pressure + Release float held
						Drop stage tool Dart + let fall for 26 minutes pump 2 @ 100 psi to open stage tool at 1000 psi circulate with rig for 6 hours

RECEIVED
 KANSAS CORPORATION COMMISSION

JAN 26 1992

CONSERVATION DIVISION
 WICHITA, KS

FINAL DISP. PRESS: 300 PSI BUMP PLUG TO 900 PSI BLEEDBACK 2 BBLs. THANK YOU

ALLIED CEMENTING CO., INC. 6377

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

ORIGINAL

SERVICE POINT:

Medicine Lodge

DATE 1-17-99	SEC. 16	TWP. 34S	RANGE 20W	CALLED OUT 6:00 Am	ON LOCATION 10:30	JOB START 9:15 am	JOB FINISH 10:20 am
LEASE Selzer	WELL # 16-2A	LOCATION Protection S.S. 6W 2S 20W 15 4E		COUNTY Comanche	STATE Kansas		

OLD OR NEW (Circle one)

CONFIDENTIAL

CONTRACTOR Duke Rig 7
 TYPE OF JOB 2nd stage of two stage
 HOLE SIZE 7 7/8" T.D. 6321
 CASING SIZE 5 1/2" DEPTH
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL steel collar DEPTH 5312
 PRES. MAX 2300 MINIMUM 100
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG.
 PERFS. RELEASED

OWNER Sam Gary Jr + Assoc

CEMENT

RELEAS

EQUIPMENT

JAN 29 1999

PUMP TRUCK CEMENTER Carl Daldine
 # 253-302 HELPER Justin Hart
 BULK TRUCK
 # 240 DRIVER Randie Handwehr
 BULK TRUCK
 # DRIVER

AMOUNT ORDERED
500 x Class H 50:50:2 + 10% salt
+ 3 CF 162 + 5" Kel-Seal

COMMON H	<u>250</u>	@	<u>7.90</u>	<u>1975.00</u>
POZMIX	<u>250</u>	@	<u>3.25</u>	<u>812.50</u>
GEL	<u>8</u>	@	<u>9.50</u>	<u>76.00</u>
CHLORIDE		@		
SALT	<u>50</u>	@	<u>7.00</u>	<u>350.00</u>
Kel-Seal	<u>2500#</u>	@	<u>.38</u>	<u>950.00</u>
FL-62	<u>210#</u>	@	<u>5.38</u>	<u>1129.80</u>

HANDLING 500 @ 1.05 525.00
 MILEAGE 500 x 60 .04 1200.00

TOTAL \$7018.30

REMARKS:

2nd Half of two stage
Rig circulated 6 hours, pump 255x
0:50 in Rat + mouse hole, pump 4755x
0:50:2 + 10% salt + 3 CF 162 + 5" Kel-Seal
put in steel pumps, wash pumps + lines,
release plug, start displacement,
replace with 129.5 Bbls Freshwater, load
1000 psi, over pump pressure to close tool

CONFIDENTIAL SERVICE

DEPTH OF JOB 5312'
 PUMP TRUCK CHARGE 580.00
 EXTRA FOOTAGE @
 MILEAGE @
 PLUG @
 @
 @

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 KANSAS CORPORATION COMMISSION

TOTAL \$580.00

CHARGE TO Sam Gary Jr + Assoc
 STREET
 CITY STATE ZIP

JAN 25 1999

FLOAT EQUIPMENT

CONSERVATION DIVISION		@	
WICHITA, KS		@	
		@	
		@	
		@	

TOTAL

TAX
 TOTAL CHARGE \$7593.30

DISCOUNT \$1139.75 IF PAID IN 30 DAYS

\$6458.55

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.

SIGNATURE Daniel E Rice

ORIGINAL

Date 9-30-97 District med. ledge Ticket No. 6358
 Company SAM GARY + ASSOC. Rig Duke #7
 Lease Selder Well No. 16-2x
 County Comanche State KS
 Location Protection 6s-1/2w Field 16-34s-22w
2s-1/2w-1/4s-1/4E

CEMENT DATA:
 Spacer Type: Fresh H₂O
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG _____

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 8 5/8 Type J-55 Weight 23 Collar _____

LEAD: Pump Time _____ hrs. Type CLASS A + ALW
3% CaCl₂ + 1/4# Flo-seal Excess _____
 Amt. 250 Skys Yield 1.97 ft³/sk Density 12.5 PPG _____

Burst Collaspe
2,950 1370
 Casing Depths: Top _____ Bottom _____

TAIL: Pump Time _____ hrs. Type CLASS A
3% CaCl₂ + 2% Gel Excess _____
 Amt. 200 Skys Yield 1.34 ft³/sk Density 15.2 PPG _____
 WATER: Lead 10.9 gals/sk Tail 6.5 gals/sk Total 96 Bbls.

Pump Trucks Used 233-302 Justin H.
 Bulk Equip. 257-251 John K.

RELEASED

Drill Pipe: Size 4 1/2 Weight 16.60 Collars x-hole
 Open Hole: Size 12 1/4 T.D. 708 ft. P.B. to _____ ft.

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth JAN 29 1999
 Float: Type Baffle Plate Depth _____
 Centralizers: Quantity 2 Plugs Top Plugs Bottom _____
 Stage Collars _____
 Special Equip. Basket
 Disp. Fluid Type Fresh H₂O Amt. _____ Bbls. Weight 8.34 PPG _____
 Mud Type loss Circ. Weight _____ PPG _____

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 0.637 Lin. ft./Bbl. 15.70
 Open Holes: Bbls/Lin. ft. 1.458 Lin. ft./Bbl. 6.8599
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. 0.735 Lin. ft./Bbl. 13.6037
 Bbls/Lin. ft. 2.830 Lin. ft./Bbl. 3.53
 Perforations: From _____ ft. to _____ ft. Amt. _____

COMPANY REPRESENTATIVE Ken McGuire

CEMENTER Nancy Drexling

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE (CASING)	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
8:50	200					Pipe on Bottom - Pump Capacity Log
9:10	150		25	5/2	5/2	Cement 250sx. ALW + 3% CaCl ₂
9:23	150		24	5/2	5/2	1/4# Flo-seal.
9:33	150					100sx. CLASS A + 3% CaCl ₂ + 2% Gel
9:34	100		10	4	4	Cement In. Stop Pumps.
	150		25	4	4	Release plug.
	250		40	3	3	Pump + Displace Plug w/ Fresh H ₂ O
9:45	400		43	3	3	Slight PSI Increase
						Slow Rate
						Bump Plug
						Shut In
						Cement Did not Circ.
						Rig up to Run 1"
10:30	500		24	3	3	Cement 100sx. CLASS A + 3% CaCl ₂ + 2% Gel.
						Cement In. Stop Pumps
						Cement Circ. to Surface

RECEIVED
 KANSAS CORPORATION COMMISSION

JAN 26 1998

CONSERVATION DIVISION
 WICHITA, KS

ALLIED CEMENTING CO., INC.

6358

ORIGINAL

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

SERVICE POINT:
med. ledge, ks

DATE 9-30-97	SEC. 16	TWP. 34S	RANGE 20W	CALLED OUT 2:30AM	ON LOCATION 5:30AM	JOB START 8:50AM	JOB FINISH 11:50AM
LEASE Selzer	WELL # 16-2X	LOCATION Protection, ks - 12w-2s-			COUNTY Comanche	STATE KS	
OLD OR NEW (Circle one)		12w-14s-14E					

CONTRACTOR Duke Drilg #7
 TYPE OF JOB Surface CSG
 HOLE SIZE 12 1/4 T.D. 708
 CASING SIZE 8 5/8 x 24 DEPTH 706
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX 400 MINIMUM 150
 MEAS. LINE SHOE JOINT 42.51
 CEMENT LEFT IN CSG.
 PERFS.

OWNER Sam Gary Jr. + Associates
CEMENT

AMOUNT ORDERED 200sxs ALW + 3% CALL + 1/4" Flt-Seal. 200sxs CLASS A
3% CALL + 2% Gel

COMMON @
 POZMIX @
 GEL @
 CHLORIDE @
 RELEASE @
 JAN 29 1998 @
 HANDLING FROM CONFIDENTIAL @
 MILEAGE @

EQUIPMENT

PUMP TRUCK CEMENTER Harry Dreiling
 #233-302 HELPER Justin Hart
 BULK TRUCK
 #257-251 DRIVER John Kelley
 BULK TRUCK
 # DRIVER TOTAL

REMARKS:

SERVICE

Pipe on Bottom - Pump Capacity CSG.
 Cement 250sxs ALW + 3% CALL + 1/4" Flt-Seal. 100sxs CLASS A + 3% CALL + 2% Gel
 Stop Pumps. Release Plug. Pump + Displace Plug w/ 4.3 Bbls. Fresh H₂O.
 Bump Plug. Shut In. Cement did not Circ. Rig up to Run 1" Cement 100sxs. CLASS A + 3% CALL + 2% Gel. Cement Circ. to Surface.

DEPTH OF JOB 706
 PUMP TRUCK CHARGE
 EXTRA FOOTAGE @
 MILEAGE @
 PLUG Rubber @
 @

TOTAL

CHARGE TO: Sam Gary Jr. + Associates

FLOAT EQUIPMENT

STREET
 CITY STATE ZIP

1- Baffle Plate @
 2- Cent erlizers @
 1- Basket @
 @

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 26 1998

CONSERVATION DIVISION
WICHITA, KS

TOTAL

TAX
 TOTAL CHARGE
 DISCOUNT IF PAID IN 30 DAYS

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.

SIGNATURE X *Kenneth M. Lane*

ALLIED CEMENTING CO., INC. 6376

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

ORIGINAL

SERVICE POINT:

Medicine Lodge

DATE/1-18-99	SEC: 16	TWP: 34S	RANGE: 20W	CALLED OUT: 6:00 AM	ON LOCATION: 10:30	JOB START: 2:20 pm	JOB FINISH: 5:10 pm
LEASE: 225	WELL # 16-2X	LOCATION: Protection Ss, h.w., 2s, 2, 2, 454E	COUNTY: LeFlore	STATE: KS.			

OLD OR NEW (Circle one)

CONTRACTOR: Duke Rig 7	OWNER: Sam Gary Jr. + Assoc
TYPE OF JOB: 2 Stage production	CEMENT
HOLE SIZE: 7 7/8" T.D. 6321	
CASING SIZE: 5 1/2 x 13.5" DEPTH 6321	
TUBING SIZE: DEPTH	
DRILL PIPE: DEPTH	
TOOL: stage collar DEPTH 5312	
PRES. MAX: 1000 MINIMUM 150	
MEAS. LINE: SHOE JOINT 37.61	
CEMENT LEFT IN CSG. 37.6	
PERFS.	

AMOUNT ORDERED	500 Gal mud clean		
	225 x Cks H 5" 50 + 21 gal + 10% salt		
	52 FL 62 + 5" Kcl seal		
COMMON H	113	@ 7.90	892.70
POZMIX	112	@ 3.25	364.00
GEL	4	@ 9.50	38.00
CHLORIDE		@	
SALT	23	@ 7.00	161.00
KCL SEAL	1125*	@ .38	427.50
FL-62	95*	@ 5.28	511.10
MUD CLEAN	500 Gals	@ .75	375.00
HANDLING	225	@ 1.05	236.25
MILEAGE	225 x 60	.04	540.00

EQUIPMENT

PUMP TRUCK	CEMENTER: Carl Building
# 233-302	HELPER: Justin Hart
BULK TRUCK	
# 501	DRIVER: Randie Landwehr
BULK TRUCK	
#	DRIVER

RELEASED

TOTAL \$ 3545.55

JAN 29 1999

REMARKS:

FROM CONFIDENTIAL

SERVICE

pipe on bottom, circulate w/ rig for 40 minutes
pump 500 Gal mud clean, pump 225 x Cks
+ 50:50 + cement. cement in 5' & pump + wash
pumps + lines. stop pumps. Release plug. pump
380s Freshwater Displacement + 120' @ 11bls
+ mud Displacement, plug 500 over pump
issue (float held) Drop Dart for stage tool
5312, wait 26 minutes, pump to open tool (1000 psi)

DEPTH OF JOB	6321'		
PUMP TRUCK CHARGE			1464.00
EXTRA FOOTAGE		@	
MILEAGE	60	@ 2.85	171.00
PLUG		@	
		@	
		@	

TOTAL \$ 1635.00

CHARGE TO Sam Gary Jr. + Assoc

STREET _____
CITY _____ STATE RECEIVER ZIP _____
KANSAS CORPORATION COMMISSION

JAN 26 1998

CONSERVATION DIVISION
WICHITA, KS

FLOAT EQUIPMENT

1-THREAD LOCK 1/2"	30.00	30.00
1-Stage Collar / Auto	@ 3949.00	3949.00
1-AFD float collar	@ 298.00	298.00
14-Centralizer	@ 56.00	784.00
2-Baskets	@ 142.00	284.00
1-Guide shoe	@ 160.00	160.00
1-STOP RING	30.00	30.00

TOTAL \$ 5525.00

TAX	
TOTAL CHARGE	\$ 10,705.55
DISCOUNT	\$ 1605.83
IF PAID IN 30 DAYS	
Net	\$ 9,099.72

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.

SIGNATURE X Lanil E Rice

COPY

Selzer 16-2X
Section 16-T34S-R20W
Comanche County, Kansas

CONFIDENTIAL

Perforation Record Continued

4 SPF 4269-4274', 4306-4310', 4313-4317' 1800 gal acid

15-033-20941

RUC

JAN 25

CONFIDENTIAL

RELEASED

JAN 29 1999

FROM CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 26 1998

CONSERVATION DIVISION
WICHITA, KS

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Test Ticket

No. 9898

CONFIDENTIAL

Well Name & No. Selzer 16-2x Test No. 1 Date 10-5-97
 Company Sam Gary Jr. & Associates Zone Tested Douglas
 Address Denver CO. Elevation 1770 KB 1757 GL
 Co. Rep / Geo. David Rice Cont. Duke # 7 Est. Ft. of Pay 3 Por. %
 Location: Sec. 16 Twp. 34s Rge. 20w Co. Pomanche State KS
 No. of Copies Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 4105-4177' **RELEASED** Initial Str Wt./Lbs. 60,00 Unseated Str Wt./Lbs. 63,000
 Anchor Length 72' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 95,000
 Top Packer Depth 4100 **JAN 29 1999** Tool Weight 1,800
 Bottom Packer Depth 4105 Hole Size — 7 7/8" X Rubber Size — 6 3/4" X
 Total Depth 4177 **FROM CONFIDENTIAL** Wt. Pipe Run Drill Collar Run 2130
 Mud Wt. 8.7 LCM 1.5 Vis. 56 WL 10.8 Drill Pipe Size 4 1/2 x hole **RECEIVED 3081**
 Blow Description FF - Fair blow. B.O.B in 12 min **KANSAS CORPORATION COMMISSION**

ISI - No blow back
SF - B.O.B soon as foil opened. (No gas to surface) **JAN 26 1998**
FSL -

Recovery — Total Feet	GIP	Ft. in DC	CONSERVATION DIVISION WICHITA, KANSAS			
Rec. <u>45'</u>	Feet Of <u>A-O-M NUC</u>	<u>8</u>	%gas <u>2</u>	%oil <u>2</u>	%water <u>90</u>	%mud <u> </u>
Rec. <u>60'</u>	Feet Of <u>G-O-M</u>	<u>50</u>	%gas <u>10</u>	%oil <u>10</u>	%water <u>40</u>	%mud <u> </u>
Rec. <u>60'</u>	Feet Of <u>Muddy oil</u>	<u>23</u>	%gas <u>85</u>	%oil <u> </u>	%water <u>15</u>	%mud <u> </u>
Rec. <u>60'</u>	Feet Of <u>G-M-CONFIDENTIAL</u>	<u>45</u>	%gas <u>30</u>	%oil <u> </u>	%water <u>25</u>	%mud <u> </u>
Rec. <u>30'</u>	Feet Of <u>G-O-M</u>	<u>30</u>	%gas <u>30</u>	%oil <u> </u>	%water <u>40</u>	%mud <u> </u>

BHT 110° °F Gravity 37 °API @ 88° °F Corrected Gravity 34.9 °API
 RW @ °F Chlorides ppm Recovery Chlorides 8,000 ppm System

(A) Initial Hydrostatic Mud invalid 2136 PSI Recorder No. 3024 T-Started 5:45 AM
 (B) First Initial Flow Pressure invalid 76 PSI (depth) 409' T-Open 7:45 AM
 (C) First Final Flow Pressure invalid 76 PSI Recorder No. 1055 T-Pulled 3:30 PM
 (D) Initial Shut-in Pressure invalid 1579 PSI (depth) 4177 T-Out 5:30 PM
 (E) Second Initial Flow Pressure invalid 108 PSI Recorder No.
 (F) Second Final Flow Pressure invalid 129 PSI (depth)
 (G) Final Shut-in Pressure invalid 1549 PSI Initial Opening 15 min Test Conventional
 (H) Final Hydrostatic Mud invalid 1933 PSI Initial Shut-in 90 min Jars
Alpine AK-1 Final Flow 120 min Safety Joint
 Final Shut-in 240 min Straddle

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Approved By David E Rice
 Our Representative David E Rice

Circ. Sub N/C
 Sampler
 Extra Packer
 Elect. Rec.
 Other
 TOTAL PRICE \$ 1200.00 FD.

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TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

CONFIDENTIAL

FLUID SAMPLER DATA

RELEASED

JAN 29 1999

Ticket No. 9898 Date 10-5 ~~FROM~~ CONFIDENTIAL

Company Name Samuel Gary Jr. and Associates

Lease Selzer 16-2x Test No. 1

County Comanche Sec. 16 Twp. 34s Rng. 20w

SAMPLER RECOVERY

Gas 0.05 CF ML

Oil 3000 ML

Mud _____ ML

Water _____ ML

Other ~~3000~~ ML

Pressure 120 psi PSI

Total 4000 ML

PIT MUD ANALYSIS

Chlorides 8,000 ppm.

Resistivity _____ ohms @ _____ F

Viscosity _____

Mud Weight 12.6

Filtrate JAN 23

Other CONFIDENTIAL

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F

Chlorides 30% M - 10% W - 30% O - 30% S ppm.

Gravity 86° @ 37 API corrected @ 60 F 34.9

PIPE RECOVERY

TOP

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

MIDDLE

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

BOTTOM

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

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JAN 26 1998

CONSERVATION DIVISION
TOPEKA, KS

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JAN 29 1999

CONFIDENTIAL

Test Ticket

ORIGINAL

FROM CONFIDENTIAL
10079

Well Name & No. Selzer #16-2X Test No. #2 Date 10/13/97
 Company Samuel Gary Jr. Zone Tested Viola
 Address 1670 Broadway Suite 3300 Denver Co. 80202 Elevation 1770 KB 1757 GL
 Co. Rep / Geo. David Rice Cont. Duke #7 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 16 Twp. 34S Rge. 20W Co. Camarache State KS
 No. of Copies 5 Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 5885 - 5942 Initial Str Wt./Lbs. 78,000 Unseated Str Wt./Lbs. 82,000

Anchor Length 57 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 90,000

Top Packer Depth 5880 JAN 23 Tool Weight 2100

Bottom Packer Depth 5885 Hole Size - 7 7/8" Rubber Size - 6 3/4"

Total Depth 5942 Wt. Pipe Run _____ Drill Collar Run 299'

Mud Wt. 92+ LCM 6# Vis. 65 WL 88 Drill Pipe Size 4 1/2 x H Ft. Run 5582'

Blow Description FF: Weak blow Built to B.O.B. in 8 mins

IST: Bled down for 5 mins. Built back to No bb.

FF: Weak blow Built to B.O.B. in 9 mins.

BT: Bled down for 5 mins. Built back to

Recovery - Total Feet 850' GIP 390 Ft. in DC 300' Ft. in DP 530'

Rec. 210 Feet Of US6CMW 8 %gas %oil 22 %water 70 %mud

Rec. 620 Feet Of SW RECEIVED %gas %oil 98 %water 2 %mud

Rec. _____ Feet Of _____ %gas %oil _____ %water _____ %mud

Rec. _____ Feet Of _____ JAN 26 1998 %gas %oil _____ %water _____ %mud

Rec. _____ Feet Of _____ %gas %oil _____ %water _____ %mud

BHT 138° °F Gravity _____ CONSERVATION DIVISION °F Corrected Gravity _____ °API

RW .06 @ 66' °F Chlorides _____ WICHITA, KS ppm Recovery Chlorides 4,000 ppm System

(A) Initial Hydrostatic Mud 2986 | 2989 PSI Recorder No. 2350 T-Started 3:40 A

(B) First Initial Flow Pressure 127 | 233 PSI (depth) 5892' T-Open 7:18

(C) First Final Flow Pressure 145 | 222 PSI Recorder No. 13849 T-Pulled 2:58

(D) Initial Shut-in Pressure 2180 | 2203 PSI (depth) 5939' T-Out 6:30 AM

(E) Second Initial Flow Pressure 177 | 279 PSI Recorder No. _____

(F) Second Final Flow Pressure 383 | 378 PSI (depth) _____

(G) Final Shut-in Pressure 2018 | 2060 PSI Initial Opening 10 Test

(H) Final Hydrostatic Mud 2753 | 2837 PSI Initial Shut-in 90 Jars

Final Flow 120 Safety Joint

Final Shut-in 240 Straddle _____

Circ. Sub _____

Sampler

Extra Packer _____

Elect. Rec.

Other _____

TOTAL PRICE \$ 1400.00

Approved By David E Rice

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FLUID SAMPLER DATA

CONSERVATION DIVISION
WICHITA, KS

710.715 Wait on Daylight
300 1572
530 #10079 seat locks

Ticket No. 10079 Date 10/13/97

Company Name Samuel O'Leary 3500 S. 5000 - 5900

Lease Schler #16-24 Test No. #2

County Comanche Sec. 16 Twp. 34S Rng. 20W

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JAN 29 1999

FROM CONFIDENTIAL
Rng. 20W

JAN 23

SAMPLER RECOVERY

PIT MUD ANALYSIS

CONFIDENTIAL

Gas 1,000 ML
Oil _____ ML
Mud _____ ML
Water 3,000 ML
Other _____ ML
Pressure 180 PSI
Total 4,000 ML

Chlorides 4,000 ppm.
Resistivity 2 ohms @ 65 F
Viscosity 65
Mud Weight 9.2
Filtrate 8.8
Other LCM 6#
67 20 502.61
1126

SAMPLER ANALYSIS

PIPE RECOVERY

Resistivity 1.5 ohms @ 65 F
Chlorides 9000 ppm.
Gravity _____ corrected @ 60 F

TOP
Resistivity .06 ohms @ 66 F
Chlorides 50000 ppm.
553.87
24

MIDDLE
Resistivity .3 ohms @ 66 F
Chlorides 125,000 ppm.

BOTTOM
Resistivity .3 ohms @ 66 F
Chlorides 125,000 ppm.

770 535F 206136 14 14 19

31000 10-10 1000 6 15 54 1301 332

TRILOBITE TESTING L.L.C.

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JAN 26 1998

CONFIDENTIAL

Test Ticket

ORIGINAL

No 10080

CONSERVATION DIVISION
WICHITA, KS

Well Name & No. Selzer # 16-2X Test No. #3 Date 10/15/97
 Company Samuel Gary Jr. Zone Tested Simpson Arb
 Address 1670 Broadway #3300 Denver Co. 80202 Elevation 1270 KB 1757 GL
 Co. Rep / Geo. David Rice Cont. Duke #7 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 16 Twp. 34S Rge. 20 W Co. Comanche State Ks
 No. of Copies 5 Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) L

Interval Tested 6192 - 6214' Initial Str Wt./Lbs. 89000 Unseated Str Wt./Lbs. 89000
 Anchor Length 22' Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 25000
 Top Packer Depth 6187' Tool Weight 2100
 Bottom Packer Depth 6192' Hole Size — 7 7/8" Rubber Size — 6 3/4" L
 Total Depth 6214' Wt. Pipe Run _____ Drill Collar Run 299'
 Mud Wt. 91 LCM 4 1/2 Vis. 63 WL 8.8 Drill Pipe Size 4 1/2 XH Ft. Run 5897'

Blow Description TF: Strong blow B.O.B in 1 min.
TS: 6.5 min. Blawdied in 15 mins Built to h.ob in 20 mins
FF: Cause Gas Sample Taken 5 min into Flow period
FST: Blawdied 15 mins. B.O.B in 10 mins.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>2300'</u>	<u>3591'</u>	<u>299'</u>	<u>2001'</u>
Rec. <u>369'</u> Feet Of <u>Free Oil</u>	%gas <u>100</u>	%oil	%water
Rec. <u>188'</u> Feet Of <u>H2O</u>	%gas <u>17</u>	%oil	%water <u>25</u>
Rec. <u>1743</u> Feet Of <u>Salt Water</u>	%gas	%oil <u>100</u>	%water
Rec. _____ Feet Of _____	JAN 23	%gas	%oil
Rec. _____ Feet Of _____		%gas	%oil

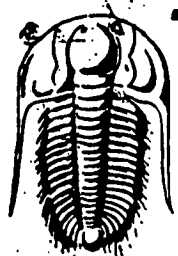
BHT 151 °F Gravity 48 °API D₆₀ _____ °F Corrected Gravity _____ °API
 RW .09 @ 68 °F Chlorides 90000 ppm Recovery Chlorides 7000 ppm System

(A) Initial Hydrostatic Mud	<u>3046</u> <u>3022</u> PSI	Recorder No. <u>2350</u>	T-Started <u>2:30 PM</u>
(B) First Initial Flow Pressure	<u>182</u> <u>222</u> PSI	(depth) <u>6198'</u>	T-Open <u>5:41</u>
(C) First Final Flow Pressure	<u>216</u> <u>233</u> PSI	Recorder No. <u>13849</u>	T-Pulled <u>10:57 PM</u>
(D) Initial Shut-in Pressure	<u>2402</u> <u>2412</u> PSI	(depth) <u>6211'</u>	T-Out <u>4:15 A</u>
(E) Second Initial Flow Pressure	<u>256</u> <u>322</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure	<u>819</u> <u>852</u> PSI	(depth) _____	
(G) Final Shut-in Pressure	<u>2394</u> <u>2423</u> PSI	Initial Opening <u>10</u>	Test <input checked="" type="checkbox"/>
(H) Final Hydrostatic Mud	<u>2940</u> <u>3033</u> PSI	Initial Shut-in <u>60</u>	Jars <input checked="" type="checkbox"/>
	<u>ALINE AK-T</u>	Final Flow <u>60</u>	Safety Joint <input checked="" type="checkbox"/>
		Final Shut-in <u>180</u>	Straddle _____

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Approved By Sub Padgett
 Our Representative Donna Anderson

FROM CONFIDENTIAL
 JAN 29 1999
 TOTAL PRICE \$ 1525.00



TRILOBITE TESTING

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P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

GAS VOLUME REPORT

Samuel Gary Jr.
OPERATOR

Selzer #16 2X
WELL NAME AND NO.

#3
DST NO.

RELEASED

JAN 29 1999

Min.	Ins. of Water PSIG	Orifice Size	MCF/D	Min.	Ins. of Water PSIG	Orifice Size	MCF/D
5	14"	3/8"	13,400				
10	18"	1/4"	7,120				
15	15"	1/4"	6,530				
20	14"	1/4"	6,330				
25	12"	1/4"	5,860				
30	12"	1/4"	5,860				
35	12"	1/4"	5,860				
40	13"	1/4"	6,100				
45	14"	1/4"	6,330				
50	14"	1/4"	6,330				
55	13"	1/4"	6,100				
60	12"	1/4"	5,860				

FROM CONFIDENTIAL

NCC

JAN 23

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JAN 26 1998

CONSERVATION DIVISION
WICHITA, KS

Remarks:

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JAN 26 1998

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

CONSERVATION DIVISION
WICHITA, KS

FLUID SAMPLER DATA

CONFIDENTIAL

Ticket No. 10080 Date 10/15/97
Company Name Samuel Gary Jr
Lease Selzer #16-24 Test No. #3
County Comanche Sec. 16 Twp. 34S Rng. 20W

NUC

SAMPLER RECOVERY

JAN 23

PIT MUD ANALYSIS

Gas 1200 ML Chlorides 7,000 ppm.
Oil 2800 ML Resistivity 9 ohms @ 70° F
Mud ML Viscosity 63
Water ML Mud Weight 9.1
Other ML Filtrate 8.8
Pressure 450 PSI Other LCM 4/6 #
Total ML

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JAN 29 1999

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SAMPLER ANALYSIS

Resistivity No Water ohms @ F
Chlorides ppm.
Gravity 48 1 12 corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity .09 ohms @ 68° F
Chlorides 90000 ppm.

MIDDLE

Resistivity ohms @ F
Chlorides ppm.

BOTTOM

Resistivity .08 ohms @ 68° F
Chlorides 100000 ppm.

Dale Padgett
3111 5830 800

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JAN 26 1998

CONFIDENTIAL

Test Ticket

ORIGINAL

10081

CONSERVATION DIVISION
WICHITA, KS

Well Name & No. <u>Selzer # 16-24</u>	Test No. <u>#4</u>	Date <u>11/17/97</u>
Company <u>Samuel Gary Jr.</u>	Zone Tested <u>Arbuckle</u>	
Address <u>1670 Broadway #3300 Denver, Co. 80202</u>	Elevation <u>1770</u>	KB <u>1757</u> GL
Co. Rep / Geo. <u>David Rice</u>	Cont. <u>Duke #7</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>16</u> Twp. <u>34^S</u> Rge. <u>20 W</u>	Co. <u>Comanche</u>	State <u>Ks</u>
No. of Copies <u>5</u>	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>6247 - 6284</u>	Initial Str Wt./Lbs. <u>8000</u>	Unseated Str Wt./Lbs. <u>83000</u>
Anchor Length <u>37'</u>	Wt. Set Lbs. <u>20000</u>	Wt. Pulled Loose/Lbs. <u>90000</u>
Top Packer Depth <u>JAN 23 6292'</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>CONFIDENTIAL 6284/6247'</u>	Hole Size — <u>7 7/8"</u> ✓	Rubber Size — <u>6 3/4"</u> ✓
Total Depth <u>6316</u>	Wt. Pipe Run _____	Drill Collar Run <u>299'</u>
Mud Wt. <u>9.1</u> LCM <u>5[#]</u> Vis. <u>61</u> WL <u>9.0</u>	Drill Pipe Size <u>4 1/2 x 4</u>	Ft. Run <u>5927</u>

Blow Description TF: Fair blow BOB in 1 min.
TSI: Bled down for 5 mins. BB to 4 in in 1120° bucket
FF: Fair blow. Built to BOB in 45 Sec. GTS 27 min
FSI: Bled down for 5 mins. BB to BOB in 5 mins.

Recovery — Total Feet <u>568'</u>	GIP <u>5359'</u>	Ft. in DC <u>299</u>	Ft. in DP <u>269'</u>
Rec. <u>75'</u> Feet Of <u>HGCMO</u>	<u>16</u> %gas <u>40</u> %oil	%water <u>44</u> %mud	
Rec. <u>120'</u> Feet Of <u>WCGMO</u>	<u>40</u> %gas <u>20</u> %oil	%water <u>40</u> %mud	
Rec. <u>120'</u> Feet Of <u>WCGMO</u>	<u>55</u> %gas <u>6</u> %oil	<u>38</u> %water <u>1</u> %mud	
Rec. <u>120</u> Feet Of <u>MCWO</u>	%gas: <u>3</u> %oil <u>96</u>	%water <u>1</u> %mud	
Rec. <u>133</u> Feet Of <u>SW</u>	%gas _____ %oil <u>99</u>	%water <u>1</u> %mud	

BHT 144° °F Gravity 46 °API D@ _____ °F Corrected Gravity _____ °API
 RW .9 @ 55 °F Chlorides 125000 ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud	<u>3155</u> <u>3165</u> PSI	Recorder No. <u>2350</u>	T-Started <u>11:41 AM</u>
(B) First Initial Flow Pressure	<u>77</u> <u>178</u> PSI	(depth) <u>6253'</u>	T-Open <u>2:10</u>
(C) First Final Flow Pressure	<u>82</u> <u>167</u> PSI	Recorder No. <u>13849</u>	T-Pulled <u>6:10</u>
(D) Initial Shut-in Pressure	<u>1906</u> <u>1917</u> PSI	(depth) <u>6277'</u>	T-Out <u>10:00</u>
(E) Second Initial Flow Pressure	<u>101</u> <u>200</u> PSI	Recorder No. <u>10332</u>	
(F) Second Final Flow Pressure	<u>201</u> <u>233</u> PSI	(depth) <u>6286'</u>	
(G) Final Shut-in Pressure	<u>1746</u> <u>1744</u> PSI	Initial Opening <u>10</u>	Test <input checked="" type="checkbox"/>
(H) Final Hydrostatic Mud	<u>2904</u> <u>2978</u> PSI	Initial Shut-in <u>60</u>	Jars <input checked="" type="checkbox"/>
	<u>ALP.ne</u> <u>AK.1</u>	Final Flow <u>60</u>	Safety Joint <input checked="" type="checkbox"/>
		Final Shut-in <u>120</u>	Straddle <input checked="" type="checkbox"/>
			Circ. Sub _____
			Sampler <input checked="" type="checkbox"/>
			Extra Packer _____
			Elect. Rec. <input checked="" type="checkbox"/>
			Other _____

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RELEASED

JAN 29 1999.

Approved By David E Rice
 Our Representative Daren Flanagan

FROM CONFIDENTIAL

TOTAL PRICE \$ 1750

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TRILOBITE TESTING L.L.C.
P.O. Box 362 - Hays, Kansas 67601

JAN 26 1998

CONSERVATION DIVISION
WICHITA, KS

CONFIDENTIAL
FLUID SAMPLER DATA

Ticket No. #10081 Date 10/17/97
Company Name Samuel Gary Jr.
Lease Selzer #1624 Test No. #4
County Comanche, Co Kansas Sec. 16 Twp. 345 Rng. c

SAMPLER RECOVERY

Gas 1400 ML
Oil 2600 ML
Mud ML
Water ML
Other 4 CUF ML
Pressure 650 PSI
Total 4000 ML

CONFIDENTIAL
JAN 23

PIT MUD ANALYSIS

Chlorides 8000
Resistivity .8 ohms @ 65
Viscosity 61
Mud Weight 9.1
Filtrate 90
Other LCM 5A

SAMPLER ANALYSIS

Resistivity ohms @ F
Chlorides ppm.
Gravity 46

RELEASED
CORRECTED TO 60.F
JAN 29 1999
FROM CONFIDENTIAL

PIPE RECOVERY

TOP
Resistivity Trac (water) ohms @
Chlorides
MIDDLE
Resistivity .09 ohms @
Chlorides 125,000
BOTTOM
Resistivity .09 ohms @
Chlorides 125,000

