

ORIGINAL

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

API NO. 15- 033-20921 0000

County Comanche County, Kansas

SW - SE - SW. Sec. 34 Twp. 32S Rge. 19 XX W

Operator: License # 3882

CONFIDENTIAL

350 Feet from S/N (circle one) Line of Section

Name: Samuel Gary & Associates

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

Address 1670 Broadway, S Suite 3300

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

Denver, Colorado 80202

Lease Name Herd Well # 34-14

City/State/Zip

Field Name Colter West

Purchaser: Koch

Producing Formation Arbuckle

Operator Contact Person: Tom Fertal

Elevation: Ground 1926' KB 1939'

Phone (303) 831-4673

Total Depth 6142 PBTD 6142

Contractor: Name: Duke Drilling Co., Inc.

Amount of Surface Pipe Set and Cemented ^{653'} at Set at 666' Feet

License: 5929

Multiple Stage Cementing Collar Used? Yes X No

Wellsite Geologist: Dale Padgett

If yes, show depth set NA Feet

Designate Type of Completion

If Alternate II completion, cement circulated from

New Well Re-Entry Workover

feet depth to _____ w/ _____ sx cmt.

Oil SWD SLOW Temp. Abd.

Gas ENHR SIGW

Dry Other (Core, WSW, Exp. Other etc)

Drilling Fluid Management Plan ALT 1 DAW 7-21-97
(Data must be collected from the Reserve Pit)

If Workover:

Operator: NA MAY 18 1999

Chloride content _____ ppm Fluid volume _____ bbls

Well Name: FROM CONFIDENTIAL

Dewatering method used Evaporation

Comp. Date _____ Old Total Depth _____

Location of fluid disposal if hauled offsite:

Deepening Re-perf. Conv. to Inj/SWD

Plug Back _____ PBTD

Coningled _____ Docket No. _____

Dual Completion _____ Docket No. _____

Other (SWD or Inj?) _____ Docket No. _____

Operator Name KCC

Lease Name APR 18 License No. _____

Quarter _____ Sec. _____ Rng. _____

County _____ Docket No. _____

12-27-96 2-8-97 2-14-97
Spud Date Date Reached TD Completion Date

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 Fertal
Title Dr. Geologist Date April 18, 1997
Subscribed and sworn to before me this 18th day of APRIL, 1997.
Notary Public Judith D. Harmon
My Commission Expires January 30, 1999

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 & Associates

Lease Name Herd

Well # 34-14

Sec. 34 Twp. 32S Rge. 19

East
 West

County Comanche County, Kansas

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.)

List All E.Logs Run: Array induction
shallow focused compensated
neutron-compensated phot density
1 cement bond log Borehole
compensated sonic

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Stone Corral	908'	+1031'
wabaunsee	3317'	-1378'
Lansing	4367'	-2430'
Cherokee	5024'	-3085'
Mississippian	5124'	-3185'
Viola	5832'	-3893'
Simpson	5986'	-4047'
Arbuckle	6113'	-4174'

CASING RECORD

New Used

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

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4'	8-5/8"	24#	666'	CLA 65/35	225	2%Gel 3% CACL
Production	7-7/8	5-1/2	15.5#	6098'	50/50 Poz	20	10% salt 2% gel

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
Perforate	6030 6031'	50/50 poz	40	5% Gel 10% Salt 5# Koseal
Protect Casing Plug Back TD	5969 5970'	50/50 poz	405	2% Gel 10% Salt 5# Koseal 5% FL-62
<input checked="" type="checkbox"/> Plug Off Zone	6052-6053'	Clas H	50	NONE

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	6030 6031' 5969-5970' Squeeze perfs.	250 Sodium Silicate + 40sx 50-50poz	6030-6031' 5969-5970'
4	5870-5871'	"	5870-5871'
4	6052-6053'	"	6052-6053'
4	6131-6124, 6121-6119' 6116-6112	50X CL'H" NEAT	6112-6132'

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2 3/8	6102'	NA	

Date of First, Resumed Production, SMD or Inj. 2014-97 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	100	None	None		47

Disposition of Gas: NA METHOD OF COMPLETION

Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
(If vented, submit ACO-18.) Other (Specify) _____



ORIGINAL CEMENTING LOG

STAGE NO.

CONFIDENTIAL

Date 12-27-96 District Med. Lodge Ticket No. 6589
 Company Sam Gary Jo. Ass. Rig Duke #7
 Lease Hero Well No. 34-14
 County Comanche State KS.
 Location Coldwater ss. to Tot Field 34-32-19w
3w-1/2n-E/s

CEMENT DATA:
 Spacer Type: _____
 Amt. _____ Ska Yield _____ ft³/sk Density _____ PPG

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 8 5/8 Type _____ Weight 25 Collar _____

LEAD: Pump Time _____ hrs. Type CLASS A 65/35/
6+3% CACI² + 1/4# Flo-sol Excess _____
 Amt. 225 Ska Yield 1.97 ft³/sk Density 12.5 PPG
 TAIL: Pump Time _____ hrs. Type CLASS A
3% CACI² + 2% Gcl Excess _____
 Amt. 200 Ska Yield 1.34 ft³/sk Density 15.2 PPG
 WATER: Lead 10.9 gals/sk Tail 6.5 gels/sk Total _____ Bbla.

Casing Depths: Top _____ Bottom _____
 MAY 18 1990

Pump Trucks Used 263 CAR B.
 Bulk Equip. 240 STAMES H.

FROM CONFIDENTIAL

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

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. 0.637 Lin. ft./Bbl. 15.70
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. 0.735 Lin. ft./Bbl. 13.6037
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type BAFFLE Depth 628.20
 Centralizers: Quantity 2 Plugs Top Rubber Btm. _____
 Stage Collars _____
 Special Equip. 2-Baskets
 Disp. Fluid Type Fresh H₂O Amt. 41 Bbla. Weight 8.34 PPG
 Mud Type loss circ. Weight _____ PPG

COMPANY REPRESENTATIVE Harvey Moore

CEMENTER Harry Quilling

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	ANNULUS	DRILL PIPE (CASING)	TOTAL FLUID	Pumped Per Time Period	RATE Bbla Min.	
2:06A.		200				Pipe on Bottom - Pump Capacity Csg.
2:05		150	5		4	Start Fresh H ₂ O
2:20		100				Start lead 225xs. 65/35/6+3%CACI ²
		100	79		5 1/2	1/4# Flo-sol
						Start TAIL 100xs. CLASS A 3% CACI ²
2:38		100	24		5 1/2	2% Gcl. Cement. In. Stop Pumps
2:40						Release Plug
2:40		75	15		4	Start Fresh H ₂ O Displace
		150	38		4	Slight PSI Increase
			40		3	Slow Rate
2:50		400	41		2	Bump Plug
						Shott In.
						loss Returns
3:30		400	24	NOG	2	Rig up to run 100' of 1"
						Cement w/100xs. CLASS A 3% CACI ² + 2% Gcl
						no Fill up. w. o. c.
7:30		400			3	Run 100' 1"
						Cement w/100xs. CLASS A + 3% CACI ²
						no Fill up. wait 2 Hrs. on cement to set.
						Cement w/100xs. CLASS A + 3% CACI ²
10:00		400	24		3	Cement Circ. to surface
						Cemented w/225xs. 65/35/6+3%CACI ² + 1/4# Flo-sol
						200xs. CLASS A 3% CACI ² + 2% Gcl
						200xs. CLASS A + 3% CACI ²

FINAL DISP. PRESS: _____ PSI BUMP PLUG TO _____ PSI BLEEDBACK _____ BBLs.

THANK YOU

ALLIED CEMENTING CO., INC. 6589

CONFIDENTIAL

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

SERVICE POINT: med lodge

ORIGINAL

DATE: <u>12-07-96</u>	SEC: <u>34</u>	TWP: <u>32S</u>	RANGE: <u>19W</u>	CALL OUT: <u>2:00 P.M.</u>	ON LOCATION: <u>12:00 A.M.</u>	JOB START: <u>2:00 A.M.</u>	JOB FINISH: <u>10:30 A.M.</u>
LEASE: <u>Hiero</u>	WELL #: <u>34-14</u>	LOCATION: <u>Coldwater ss to Jct 3w</u>	COUNTY: <u>Comanche</u>	STATE: <u>KS</u>			

CONTRACTOR: Duke #7

TYPE OF JOB: Surface

HOLE SIZE: 13/4 TD: 671

CASING SIZE: 8 5/8 x 2.5 DEPTH: 670.92

TUBING SIZE: _____ DEPTH: _____

DRILL PIPE: 4 1/2 x hole DEPTH: 671

TOOL: _____ DEPTH: _____

PIES MAX: 500 MINIMUM: 100

MEAS IN DEPTH: _____ SHOE JOINT: 42.72

CEMENT LEFT IN CSG: _____ RELEASED

PERFS: _____

OWNER: Sam Gary Jr + Associates
CEMENT

AMOUNT ORDERED: 225sxs. 65/35/6 + 3% CaCl₂ + 1/4 Flo-Seal 200sxs. CLASS A + 3% CaCl₂ + 2% Gel 200sxs. CLASS A + 3% CaCl₂

COMMON A	<u>400</u>	@	<u>6.10</u>	<u>2440.00</u>
POZ MIX		@		
GEL	<u>2</u>	@	<u>9.50</u>	<u>19.00</u>
CHLORIDE	<u>21</u>	@	<u>28.00</u>	<u>588.00</u>
ALW	<u>225</u>	@	<u>5.65</u>	<u>1271.25</u>
Flo-Seal	<u>56#</u>	@	<u>1.15</u>	<u>64.40</u>
HANDLING	<u>625</u>	@	<u>1.05</u>	<u>656.25</u>
MILEAGE	<u>625 x 45</u>	@	<u>.04</u>	<u>1125.00</u>

MAY 18 1999

EQUIPMENT

PUMP TRUCK: CEMENTER Arny Drelling
HELPER Carl Balding

BULK TRUCK: DRIVER James Holt

BULK TRUCK: DRIVER Shane Winsor

TOTAL \$ 6163.90

REMARKS:

Pipe on Bottom - Pump Capacity Csg.

Start Cement 225sxs. 65/35/6 + 3% CaCl₂ + 1/4 Flo-Seal - 100sxs. CLASS A

3% CaCl₂ + 2% Gel Cement in Stop Pumps

Released Plug Displace Plug w/ 41 Bbls

Fresh Blow Pump Plug Shut In. NO

Release cement in stop CLASS A 3% CaCl₂ + 2% Gel Cement

Class A + 3% CaCl₂ Cement Circ to Surface ✓

DEPTH OF JOB	<u>670</u>			
PUMP TRUCK CHARGE 0-300'	<u>5</u>	@	<u>445.00</u>	
EXTRA FOOTAGE 370'	<u>41</u>	@	<u>151.70</u>	
MILEAGE 45	<u>2.85</u>	@	<u>128.25</u>	
PLUG Rubber 85/8	<u>90.00</u>	@	<u>90.00</u>	

TOTAL \$ 814.95

CHARGE TO: Sam Gary Jr + Associates

STREET: 1670 Broadway Suite 3300

CITY: Denver STATE: Co. ZIP: 80203

FLOAT EQUIPMENT

1-Baffle Plate	@	<u>135.00</u>	<u>135.00</u>
2-Centerizers	@	<u>61.00</u>	<u>122.00</u>
2-Baskets	@	<u>200.00</u>	<u>400.00</u>

TOTAL \$ 657.00

TAX: _____

TOTAL CHARGE \$ 7635.85

DISCOUNT \$ 1145.37 IF PAID IN 30 DAYS

NET \$ 6490.48

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: Harvey Moore - Harvey Moore

APR 18 1999

CONFIDENTIAL

SERVICE

RECEIVED
KANSAS CORP. CDMM
APR 21 P 10

Date 1-9-97 District med. lodge Ticket No. 6594
 Company Sam Gary + Associates Rig Duke #7
 Lease Heard Well No. 34-14
 County Comanche State Ks.
 Location Coldwater 5s to 7ct Field 34-32s-19w
3w-1/2n-E/s

CEMENT DATA:
 Spacer Type: 500 Gallons mud clean
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG
Did not use - Pumped In
Reserve Pit
 LEAD: Pump Time _____ hrs. Type _____
 Excess _____

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 5 1/2 Type ST-55 Weight 15.5 Collar _____

Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG
 TAIL: Pump Time _____ hrs. Type CLASS H 50/50
2% Gel - 10# Kol-Seal - 10% salt Excess 15%
 Amt. 44.5 Skys Yield 1.51 ft³/sk Density 13.8 PPG
 WATER: Lead _____ gals/sk Tail 6.61 gals/sk Total 150 Bbls.

Burst Collaps RELEASED
4,810 PSI 4,040 PSI
 Casing Depths: Top 838-670 Bottom _____

Pump Trucks Used 265 Carl Balding
 Bulk Equip. 314 John Kelley

FROM CONFIDENTIAL

Drill Pipe: Size 4 1/2 Weight 16.60 Collars X-hole
 Open Hole: Size 7 7/8 T.D. 6126 ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. .0238 Lin. ft./Bbl. 42.01
 Open Holes: Bbls/Lin. ft. .0602 Lin. ft./Bbl. 16.5993
 Drill Pipe: Bbls/Lin. ft. .0142 Lin. ft./Bbl. 70.32
 Annulus: Bbls/Lin. ft. .0369 Lin. ft./Bbl. 32.4065
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

Float Equip: Manufacturer _____
 Shoe: Type Packer Shoe Depth 6103
 Float Type FLOAT Collar Depth 6061
 Centralizers: Quantity LS Plugs Top Latch Btm. _____
 Stage Collars Stop Ring - Thread lok
 Special Equip. BASKET
 Disp. Fluid Type KCL 2% Amt. 150 Bbls. Weight 8.43 PPG
 Mud Type CHEMICAL Weight 9.1 PPG

COMPANY REPRESENTATIVE David Rice CEMENTER Larry Dreiling

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
<u>6:30</u>	<u>750</u>					<u>Pipe on Bottom - Pump Capacity (59</u>
	<u>500</u>					<u>Open Packer Shoe</u>
<u>8:30</u>						<u>Load Head w/ Latch Plug. w.o.o.</u>
						<u>mix + Pump mud pill - no Circ</u>
<u>11:30</u>						<u>Shear Packer - Still no Returns</u>
<u>3:30</u>	<u>200</u>		<u>30</u>	<u>APR 18</u>	<u>6</u>	<u>mix + Pump mud pill</u>
			<u>5.3</u>	<u>CONFIDENTIAL</u>		<u>mix + Pump 20sxs Cement</u>
<u>4:00</u>	<u>100</u>		<u>5.3</u>		<u>3</u>	<u>to Pit Get weight up.</u>
						<u>mix + Pump 20sxs Cement</u>
						<u>ment In. Displace 1/4 Bbl Fresh</u>
<u>4:15</u>	<u>0</u>		<u>10</u>		<u>1 1/4</u>	<u>H₂O. Stop Pumps. Release Plug</u>
	<u>0</u>		<u>100</u>		<u>1 1/4</u>	<u>Start Displace 1# 10 Bbls Fresh</u>
	<u>100</u>		<u>140</u>		<u>1 1/4</u>	<u>H₂O Followed By 2% KCL Water</u>
<u>6:15</u>	<u>150</u>		<u>150</u>			<u>Slight PST Increase</u>
						<u>Bump Plug</u>
						<u>Release PST</u>
						<u>Float Held</u>
						<u>no Returns</u>
						<u>Pumped mud - clean to Pit</u>
						<u>Used 40sxs CLASS H 50/50 2% Gel</u>
						<u>10# Kol-Seal, 10% salt + 15% F-1-62</u>

ALLIED CEMENTING CO., INC. 6595

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

CONFIDENTIAL

SERVICE POINT: med lodge

DATE <u>1-9-97</u>	SEC. <u>34</u>	TWP. <u>32S</u>	RANGE <u>19W</u>	CALLED OUT <u>8:00 PM</u>	ON LOCATION <u>12:00 AM</u>	JOB START <u>6:30 AM</u>	JOB FINISH <u>7:30 PM</u>
LEASE <u>Herd</u>		WELL# <u>34-14</u>		LOCATION <u>Coldwater 55th St. 3W - 1 1/2 N - E/S</u>		COUNTY <u>Comanche</u>	STATE <u>KS</u>

CONTRACTOR <u>Duke #7</u>		OWNER <u>Sam Gary Jr. + Associates</u>	
TYPE OF JOB <u>Prod. Csg.</u>		CEMENT	
HOLE SIZE <u>7 7/8</u>	T.D. <u>6106</u>	AMOUNT ORDERED <u>500 Gallons med clean</u>	
CASING SIZE <u>5 1/2 x 5.5</u>	DEPTH <u>6103</u>	<u>4455x5 CLASS H SC/SC 2 1/2 G-1-16% SNT</u>	
TUBING SIZE	DEPTH	<u>10# Rd. Seal + 50% FI-62</u>	
DRILL PIPE <u>4 1/2</u>	DEPTH	<u>Used 405x5</u>	
TOOL	DEPTH	COMMON @	
PRES. MAX <u>1000</u>	MINIMUM <u>0</u>	POZMIX @	
MEAS. LINE	SHOE JOINT <u>41.97</u>	GEL @	
CEMENT LEFT IN CSG.		CHLORIDE @	
PERFS.		ORIGINAL	

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Larry Drilling</u>	HANDLING @	
# <u>257-265</u>	HELPER <u>Carl Bading</u>	MILEAGE @	
BULK TRUCK		RELEASED <u>NO</u>	
# <u>259-314</u>	DRIVER <u>John Kelley</u>		
BULK TRUCK			
#	DRIVER		

APR 18 1997
MAY 18 1999
TOTAL

REMARKS:

Pipe on Bottom - Pump Capacity Csg
Drop Ball on Packer Shoe - No Returns
load Head w/ Latch Down. w.o.o.c.
8:30am - 3:30pm Pump med - Pillw/Pig
Pump mbd - Clean to P. + Cement 205x5
to P. + Get weight up. Pump 205x5
Cement Displace 41 Bl Ensh H₂O Release Plug
KCl Displace 150 Bls. Pump Pig
Release PSI Float Hold

DEPTH OF JOB	<u>6103</u>
PUMP TRUCK CHARGE	@ <u>0</u>
EXTRA FOOTAGE	@ <u>0</u>
MILEAGE	@ <u>0</u>
PLUG Latch Down	@ <u>0</u>
	@ <u>0</u>
	@ <u>0</u>
	@ <u>0</u>
TOTAL	@ <u>0</u>

CHARGE TO: Sam Gary Jr. + Associates
STREET _____
CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

<u>Packer Shoe 5/2</u>	
<u>Float collar</u>	@ <u>0</u>
<u>15-Centralizers</u>	@ <u>0</u>
<u>1-Stop Ring</u>	@ <u>0</u>
<u>1-Basket</u>	@ <u>0</u>
<u>1-Thread-10K</u>	@ <u>0</u>
TOTAL	@ <u>0</u>

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 _____
DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE x David Eric

1997 APR 18
KANSAS CITY

ALLIED CEMENTING CO., INC. 6600

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

ORIGINAL

SERVICE POINT
med. ledge, ks.

DATE <u>1-17-97</u>	SEC. <u>34</u>	TWP. <u>32S</u>	RANGE <u>19W</u>	CALLED OUT <u>6:00 A.M.</u>	ON LOCATION <u>8:45 A.M.</u>	JOB START <u>11:00 A.M.</u>	JOB FINISH <u>6:00 P.M.</u>
LEASE <u>Herd</u>		WELL # <u>34-14</u>	LOCATION <u>Coldwater, 55 to 7ct. 3W-1/4N</u>			COUNTY <u>Comanche</u>	STATE <u>KS.</u>
OLD OR NEW (Circle one) E/S							

CONTRACTOR <u>Clarke Corp.</u>	OWNER <u>Sam Gary Jr + Associates</u>
TYPE OF JOB <u>Squeeze</u>	CEMENT
HOLE SIZE _____ T.D. _____	AMOUNT ORDERED <u>25 Gallons Flo-Stop</u>
CASING SIZE <u>5/8 x 15.5</u> DEPTH <u>6103'</u>	<u>40sxs. 50/50 CLASS H, 10% SALT + 5%</u>
TUBING SIZE <u>2 3/4 x 4.70</u> DEPTH <u>5532</u>	<u>Rd-Seal + 5% Gel</u>
DRILL PIPE _____ DEPTH _____	COMMON _____
TOOL Packer _____ DEPTH <u>5502</u>	POZMIX _____
PRES. MAX <u>800</u> MINIMUM _____	GEL _____
MEAS. LINE _____ SHOE JOINT _____	CHLORIDE _____
CEMENT LEFT IN CSG. _____	_____
PERFS. _____	_____

CONFIDENTIAL

EQUIPMENT

PUMP TRUCK CEMENTER <u>Jerry Drelling</u>	HANDLING _____
# <u>257-265</u> HELPER <u>Carl Balding</u>	MILEAGE _____
BULK TRUCK # _____ DRIVER _____	RELEASED <u>NO</u>
BULK TRUCK # _____ DRIVER _____	MAY 18 1999 APR 18
	TOTAL _____

REMARKS:

FROM CONFIDENTIAL SERVICE

Perfs. - 60.30-31, Try to Break Cinc. 50 Bbls
24 Bbls @ 250 PSI. W.O.O. meet w/chemical
Mix + Pump 250 Gallons Flo-Stop, 5 Bbls Fresh H₂O
40sxs. 50/50 5% Gel + 10% SALT + 5% Rd-Seal
Perse. Cement In. Displace 10 Bbls Fresh H₂O
16 Bbls 2% LCL water. PSI up 1600 PSI. Slow
Bleed off 500 PSI shut in.

DEPTH OF JOB _____	<u>6031</u>
PUMP TRUCK CHARGE _____	_____
EXTRA FOOTAGE _____	@ _____
MILEAGE _____	@ _____
PLUG _____	@ _____
_____	@ _____
_____	@ _____
	TOTAL _____

CHARGE TO: Sam Gary Jr. + Associates
 STREET _____
 CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
	TOTAL _____

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 Dewey E Rice

TAX _____
 TOTAL CHARGE _____
 DISCOUNT _____

RECEIVED
 KANSAS CEMENTING CO. INC.
 1997 APR 21 P. 05

IF PAID IN 30 DAYS



CEMENTING LOG

STAGE NO. **CONFIDENTIAL**

Date 1-21-97 District Med. Lodge Ticket No. 6602
 Company SAM GARY ASSOCIATES Rig CLARKE
 Lease HERD Well No. 34-14
 County COMANCHE State KS.
 Location Coldwater, Sst to Fct. Field 34-325-146
3W-1/2N-8/S

CEMENT DATA:

Spacer Type: _____
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

ORIGINAL

LEAD: Pump Time _____ hrs. Type _____
 Excess _____

Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

TAIL: Pump Time _____ hrs. Type _____
 Excess _____

Amt. 405 Skys Yield 1.51 ft³/sk Density 13.8 PPG

WATER: Lead 6.8 gals/sk Tail _____ gals/sk Total 67 Bbls.

Pump Trucks Used 257-265 CARL BAKING

Bulk Equip. 259 JOHN KELLEY

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 5 1/2 Type F55 Weight 15.5 Collar _____

RELEASED

Casing Depths: Top _____ Bottom MAY 10 1999

FROM CONFIDENTIAL

Drill Pipe: Size 2 3/8 Weight 4.76 Collars upset
 Open Hole: Size 7 7/8 T.D. 6123 ft. P.B. to _____ ft.

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. .0238 Lin. ft./Bbl. 42.61

Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

Drill Pipe: Bbls/Lin. ft. .0039 Lin. ft./Bbl. 258.6

Annulus: Bbls/Lin. ft. .0309 Lin. ft./Bbl. 32.4065

Bbls/Lin. ft. .0108 Lin. ft./Bbl. 54.58

Perforations: From 5870 ft. to _____ ft. Amt. _____

Float Equip: Manufacturer _____

Shoe: Type _____ Depth _____

Float Type _____ Depth _____

Centralizers: Quantity _____ Plugs Top _____ Btm. _____

Stage Collars _____

Special Equip. _____

Disp. Fluid Type Fresh H₂O Amt. 28 1/4 Bbls. Weight 8.34 PPG

Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE DAVID RICE

CEMENTER LARRY DREILING

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
9:50	1000		20		1	Perfs. 5870' Packer 5502'
10:45		500	2		2	Try to Break Circ.
11:00	1000	500				PSI up - Steady Rate + PSI
11:20	2200	350	30		1 1/2	W.O.O. Load Annulus
11:24	1500	300	20		2	Cement 405 sks. CLASSH 50/50/129/G
12:30	1500	100	108		2	10% SALT 5# Kol-Seal + .5% FL-62
12:28	1500	100	15		2	PSI Increase Stop Pumps - Bleedoff
12:40	1900	100	28 1/4		1 1/2	Start Cement Steady Rate + PSI
1:00	700	100				Cement In. Start Fresh H ₂ O
						Displace Steady Rate
						PSI Increase
						Displace In. Stop Pumps
						Shut In

CONFIDENTIAL

RECEIVED
 KANSAS CORP CORM
 1977 APR 21 2 1 06

5671.38

ALLIED CEMENTING CO., INC. 6602

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

CONFIDENTIAL

SERVICE POINT: Med Lodge, ks.

DATE <u>1-21-97</u>	SEC. <u>34</u>	TWP. <u>32S</u>	RANGE <u>14W</u>	CALLED OUT <u>6:00 A.M.</u>	ON LOCATION <u>7:30 A.M.</u>	JOB START <u>7:50 A.M.</u>	JOB FINISH <u>1:00 P.M.</u>
LEASE <u>Herd</u>	WELL # <u>34-14</u>	LOCATION <u>Coldwater 55 to 9ct. - 36-</u>		COUNTY <u>Donalich</u>	STATE <u>Ks.</u>		

OLD OR (NEW) (Circle one) 1/211- E/S

CONTRACTOR Clarke Corp OWNER SAM GARY Jr + Associates

TYPE OF JOB <u>Squeeze</u>	CEMENT		
HOLE SIZE <u>T.D.</u>			
CASING SIZE <u>5/8 x 15.5</u>	DEPTH <u>6103'</u>	AMOUNT ORDERED <u>405 sxs. 50/50/296 Gel</u>	
TUBING SIZE <u>2 3/8 x 4.70</u>	DEPTH <u>5502</u>	<u>10% SALT + 5% KOL-SEAL + 5% FL-62</u>	
DRILL PIPE	DEPTH		
TOOL	DEPTH		
PRES. MAX <u>2000</u>	MINIMUM <u>1000</u>	COMMON	
MEAS. LINE	SHOE JOINT	POZMIX	
CEMENT LEFT IN CSG. <u>85'</u>		GEL	
PERFS. <u>5870'</u>		CHLORIDE	

ORIGINAL

EQUIPMENT

PUMP TRUCK CEMENTER <u>Larry Drilling</u>	HANDLING	
# <u>257-265</u> HELPER <u>Carl Balding</u>	RELEASED	
BULK TRUCK # _____ DRIVER _____		
BULK TRUCK # _____ DRIVER _____		

MAY 18 1999 KCC TOTAL _____

REMARKS:

Perfs. 5870' Packer set 5502'
Try to Break Circ. 1 RPM @ 1000 PSI.
w. c.c. Cement w/ 40 sxs. 50/50 CLASS "H"
+ 2% Gel + 5% KOL-seal + 10% SALT + 5% FL-62
Cement In. Displace 2 3/8 LBs Fresh H₂O
Shutt. In.

DEPTH OF JOB _____	
PUMP TRUCK CHARGE _____	
EXTRA FOOTAGE _____ @ _____	
MILEAGE _____ @ _____	
PLUG _____ @ _____	
_____ @ _____	
_____ @ _____	

APR 18 1999
 CONFIDENTIAL
 SERVICE
 TRANSFERRED
 TO
 ALLIED CEMENTING CO.
 6602
 RUSSELL, KANSAS

CHARGE TO: SAM GARY Jr + Associates

STREET _____
CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	

TOTAL _____

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 _____
DISCOUNT _____ IF PAID IN 30 DAYS

5671.88

SIGNATURE x David E. Rice



CEMENTING LOG

STAGE NO.

ORIGINAL

Date 1-28-97 District Med Lodge Ticket No. 6606
 Company Sam Gary + Assoc Rig CLARK
 Lease Hard Well No. 34-14
 County Comanche State KS.
 Location Coldwater, State St Field 34-32-14w
3w-1/21-EX

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 5 1/2 Type J-55 Weight 15.5 Collar _____

RELEASED

Casing Depths: Top _____ Bottom MAY 10 1999

FROM CONFIDENTIAL

Drill Pipe: Size 2 3/8 Weight 4.70 Collars upset
 Open Hole: Size 7 7/8 T.D. 6123 ft. P.B. to _____ ft.

CAPACITY FACTORS:

Casing: Bbbs/Lin. ft. 62.38 Lin. ft./Bbl. 42.01
 Open Holes: Bbbs/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbbs/Lin. ft. 60.39 Lin. ft./Bbl. 258.6
 Annulus: Bbbs/Lin. ft. _____ Lin. ft./Bbl. _____
 Bbbs/Lin. ft. 618.3 Lin. ft./Bbl. 54.58
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:

Spacer Type: _____ Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

LEAD: Pump Time _____ hrs. Type _____
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

TAIL: Pump Time _____ hrs. Type CLASS "H"
 Amt. 56 Skys Yield 1.17 ft³/sk Density 15.6 PPG

WATER: Lead _____ gals/sk Tail 52 gals/sk Total 6 Bbbs.

Pump Trucks Used 257-265 Carl Balding
 Bulk Equip. 242 John Kelley

Float Equip: Manufacturer _____
 Shoe: Type APR 1 8 Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs, Top _____ Btm. _____
 Stage Collars _____
 Special Equip. Squeeze manifold
 Disp. Fluid Type Fresh H₂O Amt. 21 Bbbs. Weight 8.34 PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE David Rice

CEMENTER Larry Dreiling

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbbs Min.	
	1500					B-Plug 6087' Test o.k.
11:35	1000	-	5		1/4	Perfs. 6052
11:45	400		21		2	Packer set 6082 Inj Rate
						Spot 25x5. SAND
1:50	900	500	2		2	Packer set 5990' Set BY PASS
1:55	800	500	10		1 1/2	Establish Rate
2:30	800	400	7		1 1/2	Cement w/ 50x5. CLASS H neat
						Cement IN. Start Displace
	900	400	12		1 1/2	Set Packer
2:25	1500	400	14		1/2	Displace steady Rate + PST
						PST up stop Pumps
						Squeezed
2:30	400		26		2	Release Packer
						Reverse out
3:00	300		23		2	Pull 10 Jts
3:30	300	-				Reverse out
						Pressure Squeez

RECEIVED
 TRANSAS CO. PPG
 APR 21 1997
 1:06

ALLIED CEMENTING CO., INC. 6606

CONFIDENTIAL

ORIGINAL

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

SERVICE POINT
Med. Lodge, Ks.

DATE <u>1-28-97</u>	SEC. <u>34</u>	TWP. <u>32</u>	RANGE <u>14W</u>	CALLED OUT <u>6:30 A.M.</u>	ON LOCATION <u>10:00 A.M.</u>	JOB START <u>11:00 A.M.</u>	JOB FINISH <u>4:00 P.M.</u>
LEASE <u>Herd</u>	WELL# <u>34-14</u>	LOCATION <u>Coldwater, Sst. Ft. 3W</u>			COUNTY <u>Comanche</u>	STATE <u>Ks.</u>	
OLD OR NEW (Circle one)				<u>1/4 n - 5/8</u>			

CONTRACTOR Clarke Corp. OWNER Sam Gary Jr. & Associates
TYPE OF JOB Squeeze CEMENT

HOLE SIZE <u>7 7/8</u>	TD. <u>6123'</u>	AMOUNT ORDERED <u>200# sand - 50sxs</u>
CASING SIZE <u>5 1/2 x 25.5</u>	DEPTH <u>6163'</u>	CLASS <u>"H" neat</u>
TUBING SIZE	DEPTH	
DRILL PIPE <u>2 3/4 x 4.70</u>	DEPTH <u>5962'</u>	
TOOL <u>B-Plug</u>	DEPTH <u>6087'</u>	
PRES. MAX	MINIMUM	
MEAS. LINE	SHOE JOINT <u>new</u>	
CEMENT LEFT IN CSG.		
PERFS.	<u>APR 1 8</u>	

EQUIPMENT **CONFIDENTIAL**

PUMP TRUCK CEMENTER Larry Dreiling
#257-265 HELPER Carl Balding
BULK TRUCK
#242 DRIVER John Kelley
BULK TRUCK
DRIVER

COMMON <u>"CLASS" H" 50sxs @</u>	<u>7.05</u>	<u>377.50</u>
POZMIX	@	
GEL	@	
CHLORIDE	@	
<u>SAND 25x5</u>	@ <u>5.50</u>	<u>11.00</u>
	@	
	@	
	@	
HANDLING <u>50sxs</u>	@ <u>1.05</u>	<u>52.50</u>
MILEAGE <u>50 x .04 x 45</u>		<u>90.00</u>

RELEASED
MAY 18 1999
TOTAL 531.00

REMARKS:

FROM CONFIDENTIAL

SERVICE

B-Plug 6087, Perfs 6052
Spot 5sxs. Sand 6080', Inj. Rate
1/4 RPM @ 1000 PSI. Spot 50sxs. "CLASS" H"
@ 5990' Displace 7 Bbls. Set Packer
Displace 14 Bbls. Squeezed @ 1500 PSI
Reverse out. Pull 10 starts. Reverse out
Set Packer. Re-pressure squeeze 300 PSI
Shut In.

DEPTH OF JOB <u>6052</u>		
PUMP TRUCK CHARGE		<u>1394.00</u>
EXTRA FOOTAGE	@	
MILEAGE <u>4.5</u>	@ <u>2.85</u>	<u>128.25</u>
PLUG	@	
<u>Squeeze manifold</u>	@ <u>25.00</u>	<u>25.00</u>
	@	

TOTAL 1597.25

CHARGE TO: SAM GARY JR. & ASSOCIATES
STREET _____
CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL _____

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TAX _____
TOTAL CHARGE 2128.20
DISCOUNT 319.23
net 1809.01
IF PAID IN 30 DAYS

SIGNATURE X [Signature]

