

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- 033209050000
County Comanche
NW - SW - NE Sec. 1 Twp. 33 Rge. 19 X W

Operator: License # 3882

CONFIDENTIAL

Name: Samuel Gary Jr & Assoc., Inc

Address 1775 Sherman St.

Suite 1925

City/State/Zip Denver, CO 80203

Purchaser: Kansas Gathering Systems - Koch

Operator Contact Person: Craig Ambler

Phone (303) 831-4673

Contractor: Name: Eagle Drilling

License: 5380

Wellsite Geologist: Tim McCoy

Designate Type of Completion
 New Well Re-Entry Workover

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

If Workover:

Operator: MAH 23 1998

Well Name:

Comp. Date FROM CONFIDENTIAL

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

4/26/95 5/10/95 7/28/95
Spud Date Date Reached TD Completion Date

1500 Feet from (circle one) Line of Section

2000 Feet from (circle one) Line of Section

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

Lease Name Phillips Well # 1-7

Field Name Wildcat

Producing Formation Viola

Elevation: Ground 2048 KB 2061

Total Depth 6400 PBSD

Amount of Surface Pipe Set and Cemented at 646 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set Feet

If Alternate II completion, cement circulated from

feet depth to w/ sx cmt.

Drilling Fluid Management Plan ALT 1 896 4-9-96
(Data must be collected from the Reserve Pit)

Chloride content 11,000 ppm Fluid volume 3200 bbls

Dewatering method used None

Location of fluid disposal if hauled offsite: 9

Operator Name KBW OIL & Gas

Lease Name Harmon SWD License No. CD 98329

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

County Comanche Docket No. 5993

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.

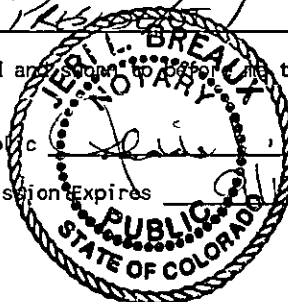
Signature

Title Date 8/21/95

Subscribed and sworn to before me this 21 day of August, 1995.

Notary Public

Date Commission Expires 11/30/95



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)

AUG 22 1995

8-22-95
CONSERVATION DIVISION
WICHITA, KS

Operator Name Samuel Gary Jr. and Assoc. Lease Name Phillips Well # 1-7

Sec. 1 Twp. 33 Rge. 19 East West
 County Comanche

CONFIDENTIAL

ORIGINAL

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 Datums Sample
 Name Top Datum
 Mississippian 5128 -0367
 Osage 5225 -0361
 Viola 5889 -3828
 Simpson 6062 -4001
 Arbuckle 6194 -4133

Geol. Report Attached.

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 KANSAS CORPORATION COMMISSION

List All E.Logs Run: Borehole Compensated Sonic Integrated Transit Time, Compensated Neutron Compensated Photo-Density, Array Induction Shallow Focused Electric.

AUG 22 1995
 8-22-95

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							CONSERVATION DIVISION WICHITA, KS	
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	20	16		20	Neat		None	
Surface	12.25	8 5/8	24	646	Class A	325	3% CC + 1/4# Floc 2% gel	
Production	7 7/8	5 1/2	14	6039	Class H	250	50/50 Poz 2% gel	

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing	None			
<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	5891 - 5899 RELEASED	500 gal MCA Acid	5895
	MAR 23 1998		
	FROM CONFIDENTIAL		

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2 3/8	5889	5889	
Date of First, Resumed Production, SWD or Inj.	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
7/28/95				
Estimated Production Per 24 Hours	Oil 50 Bbls.	Gas 170 Mcf	Water 5 Bbls.	Gas-Oil Ratio 3810 Gravity 34°

Disposition of Gas: Vented Sold Used on Lease (if vented, submit ACO-18.)
 METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled 5891'-5899'
 Other (Specify) _____

RECEIVED

ALLIED CEMENTING COMPANY, INC.

913-483-2627

P. O. BOX 31

RUSSELL, KANSAS 67665

MAY 05 1995

ORIGINAL

SAMUEL GARY JR. & ASSOCIATES INC.

SAMUEL GARY JR. & ASSOC., INC.

DPLE COMPL PROD

TO: Cement for

Surface Casing

TO: Samuel Gary Jr., & Assoc., Inc.

GLACCT# 700-60

1775 Sherman, Suite #1925

APPROVED BY: AGJ

Denver, CO 80203

Invoice No. 68756

Purchase Order No. _____

Lease Name Phillips 1-7

Date 4-26-95

CONFIDENTIAL

Service and Materials as Follows:

Common 100 sks @\$6.10	\$610.00
Gel 2 sks @\$9.50	19.00
Chloride 11 sks @28.00	308.00
Litewate 225 sks @\$5.05 ⁰²¹⁹⁷	1,271.25
FloSeal 56# @\$1.15	64.40

\$2,272.65

Handling 325 sks @\$1.05	341.25
Mileage (45) @\$.04¢ per sk per mi	585.00
Surface	445.00
Extra Footage 346' @\$.41¢	141.86
Mi @\$2.35 pmp trk chg	105.75
1 plug	90.00

1,708.86

If Account CURRENT, a	
Discount of \$ <u>992.30</u>	1 Sawtooth Shoe-----\$240.00
Will Be Allowed ONLY If	1 AFU Insert----- 258.00
Paid Within <u>30</u> Days From	2 Centralizers----- 122.00
Date of Invoice.	2 Cement Baskets----- <u>360.00</u>

980.00

Thank You! Total

\$4,961.51

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter

KCC

OCT 9
CONFIDENTIAL

RELEASED

RECEIVED
KANSAS CORPORATION COMMISSION

MAR 23 1998

AUG 22 1995

FROM CONFIDENTIAL

CONSERVATION DIVISION
WICHITA, KS

ALLIED CEMENTING COMPANY, INC.

913-483-2627

P. O. BOX 31

RUSSELL, KANSAS 67665

ORIGINAL

To: *Samual Gary Jr., & Assoc., Inc.*
760-60
1775 Sherman, Suite #1925
MEB
Denver, CO 80203

Invoice No. 88755
Purchase Order No. _____
Lease Name Phillips 1-7
Date 4-26-95

CONFIDENTIAL

Service and Materials as Follows:

Common 100 sks @ \$6.10	\$610.00	
Gel 2 sks @ \$9.50	19.00	
Chloride 11 sks @ \$28.00	308.00	
Litewate 225 sks @ \$5.65	1,271.25	
FloSeal 56" @ \$1.15	64.40	22,272.65
Handling 325 sks @ \$1.05	341.25	
Mileage (45) @ \$.040 per sk per mi	585.00	
Surface	445.00	
Extra Footage 345' @ \$.410	141.36	
Mi @ \$2.35 pmp trk chg	105.75	
1 plug	90.00	1,708.36
992.30		
1 Sawtooth Shoe-----	\$240.00	
1 AFU Insert-----	250.00	
2 Centralizers-----	122.00	
2 Cement Baskets----	360.00	980.00

Thank You! Total

64,961.51

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1 1/2% Charged Thereafter

RELEASED

MAR 23 1998

FROM CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION

AUG 22 1995

CONSERVATION DIVISION
WICHITA, KS

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OCT 9
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ALLIED CEMENTING CO., INC.

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

SERVICE POINT:
Medicine Lodge

ORIGINAL

DATE <i>4/26/95</i>	SEC. <i>1</i>	TWP. <i>33s</i>	RANGE <i>19W</i>	CALLED OUT <i>7:00 AM</i>	ON LOCATION <i>10:30 AM</i>	JOB START <i>3:15 PM</i>	JOB FINISH <i>4:00 PM</i>
LEASE <i>Phillips</i>	WELL # <i>1-7</i>	LOCATION <i>Coldwater 4 1/2 S W/S</i>			COUNTY <i>Comanche</i>	STATE <i>KS</i>	

OLD OR NEW (Circle one)

CONTRACTOR *Eagle Drilling Rig #1*

TYPE OF JOB *CMT 8 3/4 Surface CSG*

HOLE SIZE *12 1/4* T.D. *680*

CASING SIZE *8 3/4 24"* DEPTH *688*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX *600* MINIMUM *50*

MEAS. LINE SHOE JOINT *41*

CEMENT LEFT IN CSG. *41*

PERFS.

CONFIDENTIAL

OWNER *Same*

CEMENT

COMMON *100*

POZMIX

GEL *2*

CHLORIDE *11*

LITENATE *22S*

FLO-SEAL *56#*

AMOUNT ORDERED			
<i>225 SKS 65/35.6% gel 3% cacl² 4" # Flo-seal</i>			
<i>100 SKS Class A + 2% gel 3% cacl²</i>			
COMMON <i>100</i>	@ <i>6.10</i>		<i>610.00</i>
POZMIX	@		
GEL <i>2</i>	@ <i>9.50</i>		<i>19.00</i>
CHLORIDE <i>11</i>	@ <i>28.00</i>		<i>308.00</i>
LITENATE <i>22S</i>	@ <i>5.65</i>		<i>1271.25</i>
FLO-SEAL <i>56#</i>	@ <i>1.15</i>		<i>64.40</i>
	@		
	@		
HANDLING <i>32S</i>	@ <i>1.05</i>		<i>341.25</i>
MILEAGE <i>325 x 4S</i>	@ <i>.04</i>		<i>585.00</i>

RELEASED

MAR 23 1998

EQUIPMENT

FROM CONFIDENTIAL

PUMP TRUCK CEMENTER *Max Hall*

234 HELPER *Justin Hart*

BULK TRUCK DRIVER *John Kelly*

257

BULK TRUCK DRIVER

#

RECEIVED
KANSAS CORPORATION COMMISSION

AUG 22 1995

TOTAL *\$3198.90*

REMARKS:

CONSERVATION DIVISION
WICHITA, KS

SERVICE

CMT 8 3/4 Surface CSG with 225 SKS 65/35.6% gel 3% cacl² 4" # Flo-seal + 100 SKS Class A + 2% gel 3% cacl² Drop Plug Displace 38.5 BBL Land Plug Float Head

DEPTH OF JOB <i>688</i>		
PUMP TRUCK CHARGE <i>0-300'</i>		<i>445.00</i>
EXTRA FOOTAGE <i>346'</i>	@ <i>.41</i>	<i>141.86</i>
MILEAGE <i>45 Mi</i>	@ <i>2.35</i>	<i>105.75</i>

KUL

OCT 9

CONFIDENTIAL

ALLIED CEMENTING COMPANY, INC.

913-483-2627

P. O. BOX 31

RUSSELL, KANSAS 67665

RECEIVED

ORIGINAL

MAY 18 1995

To: Sanuel Gary Jr., & Associates, Inc.
1775 Sherman, St. #1925
Denver, CO 80203

Invoice No. 68827
Purchase Order No. _____
Lease Name Phillips 1-7
Date 5-11-95

SAMUEL GARY JR.
& ASSOCIATES INC.

CONFIDENTIAL

Service and Materials as Follows:

Common 125 sks @\$7.20	\$ 900.00
Pozmix 125 sks @\$3.15	393.75
Gel 4 sks @\$9.50	38.00
Salt 16 sks @\$7.00	112.00
FL-62 105# @\$5.38	564.90
KolSeal 3750# @\$.38¢	1,425.00
Mud Clean 500 gal @\$.75¢	375.00
Handling 250 sks @\$1.05	262.50
Mileage (45) @\$.04¢ per sk per mi	450.00
Production Casing	1,394.00
Mi @\$2.35 pmp trk chg	105.75
1 plug	50.00

05021993

Out prodcsg
750-32
APPROVED BY: *MSB*

\$3,808.65

2,262.25

1,162.00

Total \$7,232.90

If Account CURRENT, a
Discount of \$1,446.58
Will Be Allowed ONLY if
Paid Within 30 Days From
Date of Invoice.

1 Guide Shoe-----	\$125.00
1 AFU FLoat Collar-----	315.00
12 Centralizers-----	672.00
1 Stop Ring-----	20.00
1 Thread Lock-----	30.00

Thank You!

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1 1/2% Charged Thereafter

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KANSAS CORPORATION COMMISSION

AUG 22 1995

CONSERVATION DIVISION
WICHITA, KS

RELEASED

MAR 23 1998

FROM CONFIDENTIAL

ALLIED CEMENTING CO., INC.

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

ORIGINAL

SERVICE POINT: Medicine Lodge

DATE <u>5/11/98</u>	SEC. <u>1</u>	TWP. <u>33S</u>	RANGE <u>19W</u>	CALLED OUT <u>1:00 PM</u>	ON LOCATION <u>3:00 PM</u>	JOB START <u>7:00 PM</u>	JOB FINISH <u>9:00 PM</u>
LEASE <u>Phillips</u>	WELL # <u>1-7</u>	LOCATION <u>Coldwater 4 1/2 S 2 W 4 N</u>			COUNTY <u>Comanche</u>	STATE <u>KS</u>	

OLD OR NEW (Circle one)

CONTRACTOR <u>Eagle Drilling</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Cmt 5 1/2 prod. Csg</u>	CEMENT
HOLE SIZE <u>7 7/8</u>	T.D. <u>6300</u>
CASING SIZE <u>5 1/2 15.50" x 14.5"</u>	DEPTH <u>6042</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX <u>1325</u>	MINIMUM <u>100</u>
MEAS. LINE	SHOE JOINT <u>31.46</u>
CEMENT LEFT IN CSG.	
PERFS.	

CONFIDENTIAL

EQUIPMENT	
PUMP TRUCK	CEMENTER <u>Max Hall</u>
# <u>266</u>	HELPER <u>Carl Balding</u>
BULK TRUCK	
# <u>256</u>	DRIVER <u>Dwight Lynch Tim Sample</u>
BULK TRUCK	
#	DRIVER

AMOUNT ORDERED <u>500gal Mud Clean</u>	
<u>250 sks 50' 50" H 27 gal 10 7/8 salt 15" Kol seal .57 FL-62</u>	
COMMON <u>"H" 125</u>	@ <u>7.20</u> <u>900.00</u>
POZMIX <u>125</u>	@ <u>3.15</u> <u>393.75</u>
GEL <u>4</u>	@ <u>9.50</u> <u>38.00</u>
CHLORIDE	@
<u>SALT 16</u>	@ <u>7.00</u> <u>112.00</u>
<u>FL-62 105*</u>	@ <u>5.39</u> <u>564.90</u>
<u>Kol Seal 3750*</u>	@ <u>.38</u> <u>1425.00</u>
<u>Mud Clean 500gal</u>	@ <u>.75</u> <u>375.00</u>
	@
HANDLING <u>250</u>	@ <u>1.05</u> <u>262.50</u>
MILEAGE <u>250 x 45</u>	@ <u>.04</u> <u>450.00</u>
RELEASED	
	TOTAL <u>4521.15</u>

MAR 25 1998

REMARKS: FROM CONFIDENTIAL SERVICE

Cmt 5 1/2 Prod. Csg with 500gal Mud Clean
250sks 50/50 H+27gal 10 7/8 salt 15" Kol Seal
.57 FL-62 Washup Pump & Lines Drop Plug
Displace 146.25 BBL Lead Plug Float
Held

DEPTH OF JOB <u>6042'</u>	
PUMP TRUCK CHARGE	<u>1394.00</u>
EXTRA FOOTAGE	@
MILEAGE <u>45 mi</u>	@ <u>2.35</u> <u>105.75</u>
PLUG <u>5 1/2 Rubber</u>	@ <u>50.00</u> <u>50.00</u>
	@
	@
	TOTAL <u>1549.75</u>

CHARGE TO: Samuel Gary Jr & Associates Inc.
STREET 1775 Sherman Suite 1925
CITY Denver STATE Co. ZIP 80203

FLOAT EQUIPMENT

<u>1-5 1/2 Guide Shoe</u>	@ <u>125.00</u> <u>125.00</u>
<u>1-5 1/2 AFU Float Collar</u>	@ <u>315.00</u> <u>315.00</u>
<u>12-5 1/2 Centralizers</u>	@ <u>56.00</u> <u>672.00</u>
<u>1-5 1/2 Stop Ring</u>	@ <u>20.00</u> <u>20.00</u>
<u>1-Thread Lock</u>	@ <u>30.00</u> <u>30.00</u>
	TOTAL <u>1162.00</u>

TAX <u>— 0 —</u>	
TOTAL CHARGE <u>\$ 7232.90</u>	
DISCOUNT <u>\$ 1446.59</u>	IF PAID IN 30 DAYS

Net \$

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 Larry G. Benedict

ALLIED CEMENTING CO., INC.

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

ORIGINAL

SERVICE POINT: Medicine Lodge

DATE <u>5/11/95</u>	SEC <u>1</u>	TWP. <u>33S</u>	RANGE <u>19W</u>	CALLED OUT <u>1:00 PM</u>	ON LOCATION <u>3:00 PM</u>	JOB START <u>7:00 PM</u>	JOB FINISH <u>9:00 PM</u>
LEASE <u>Phillips</u>	WELL # <u>1-7</u>	LOCATION <u>Coldwater 4 1/2 S 2 W 4 N</u>			COUNTY <u>Comanche</u>	STATE <u>KS</u>	

OLD OR NEW (Circle one)

CONFIDENTIAL

CONTRACTOR <u>Eagle Drilling</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Cmt 5 1/2 prod. Csg</u>	CEMENT
HOLE SIZE <u>7 7/8</u>	T.D. <u>6300</u>
CASING SIZE <u>5 1/2 15.50" x 14"</u>	DEPTH <u>6042</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX <u>1325</u>	MINIMUM <u>100</u>
MEAS. LINE	SHOE JOINT <u>31.46</u>
CEMENT LEFT IN CSG.	
PERFS.	

AMOUNT ORDERED 500gal Mud Clean
250 sks 50' 50" H 27 gal 1070 salt 15" Kol Seal .570 FL-62

COMMON "H"	125	@	7.20	900.00
POZMIX	125	@	3.15	393.75
GEL	4	@	9.50	38.00
CHLORIDE		@		
SALT	16	@	7.00	112.00
FL-62	105*	@	5.39	564.90
Kol Seal	3750*	@	.38	1425.00
Mud Clean	500gal	@	.75	375.00
		@		
HANDLING	250	@	1.05	262.50
MILEAGE	250 x 45		.04	450.00

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Max Hall</u>
# <u>266</u>	HELPER <u>Carl Balding</u>
BULK TRUCK	
# <u>256</u>	DRIVER <u>Dwight Lynch Tim Sample</u>
BULK TRUCK	
#	DRIVER

RELEASED

MAR 25 1998

TOTAL 4521.15

REMARKS:

FROM CONFIDENTIAL SERVICE

Cmt 5 1/2 Prod. Csg with 500gal Mud Clean
250 sks 50/50 H 27 gal 1070 salt 15" Kol Seal
.570 FL-62 Washup Pump + Lines Drop Plug
Displace 146.25 BBL Lead Plug Float
Held

DEPTH OF JOB	<u>6042'</u>		
PUMP TRUCK CHARGE			<u>1394.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>45 mi</u>	@	<u>2.35 105.75</u>
PLUG <u>5 1/2 Rubber</u>		@	<u>50.00 50.00</u>
		@	
		@	

TOTAL 1549.75

CHARGE TO: Samuel Gary Jr & Associates Inc.

STREET 1775 Sherman Suite 1925

CITY Denver STATE Co. ZIP 80203

FLOAT EQUIPMENT

1-5 1/2 Guide Shoe	@	125.00	125.00
1-5 1/2 AFU Float Collar	@	315.00	315.00
12-5 1/2 Centralizers	@	56.00	672.00
1-5 1/2 Stop Ring	@	20.00	20.00
1-Thread Lock	@	30.00	30.00

TOTAL 1162.00

TAX — 0 —

TOTAL CHARGE \$ 7232.90

DISCOUNT \$ 1446.59 IF PAID IN 30 DAYS

Net \$

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 Larry G. Benedict

CONFIDENTIAL

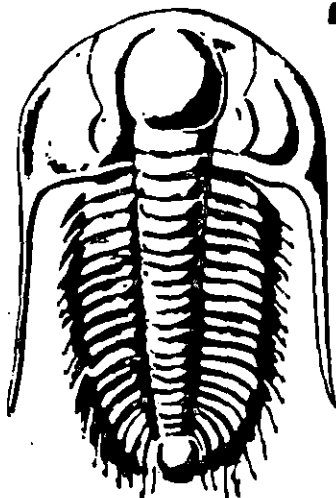
DRILL-STEM TEST DATA

ORIGINAL

Well Name: PHILLIPS #1-7
Company : SAM GARY JR & ASSOC
Location - Sec: 1 **Twp:** 33S **Rge:** 19W
County: COMANCHE **State:** KS
Date: 05/08/95

API# 15-033-20905

KCC
OCT 9
CONFIDENTIAL



**TRILOBITE
TESTING, L.L.C.**

RECEIVED
KANSAS CORPORATION COMMISSION

AUG 22 1995

CONSERVATION DIVISION
WICHITA, KS

RELEASED

MAR 23 1998

FROM CONFIDENTIAL

TEST REPORT

(Includes All DST's)

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : SAMUEL GARY JR. & ASSOC.

DATE 5-3-95

WELL NAME: PHILLIPS #1-7

KB 2061.00 ft

TICKET NO: 8315 DST #1

LOCATION : 1-33S-19W

GR 2048.00 ft

FORMATION: MISSISSIPPI

INTERVAL : 5134.00 To 5240.00 ft

TD 5240.00 ft

TEST TYPE: CONVENTIONAL

CONFIDENTIAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13788	13788	2346			PF Fr. 30 to hr
SI 90	Range(Psi)	4650.0	4650.0	4995.0	0.0	0.0	IS Fr. 0 to 1.5 hr
SF 60	Clock(hrs)	22993	22993				SF Fr. 0 to 1 hr
FS 120	Depth(ft)	5237.0	5237.0	5210.0	0.0	0.0	FS Fr. 0 to 2 hr

	Field	1	2	3	4	
A. Init Hydro	2484.0	2529.0	2510.0	0.0	0.0	T STARTED 1638 hr
B. First Flow	130.0	149.0	135.0	0.0	0.0	T ON BOTM 1840 hr
B1. Final Flow	137.0	149.0	144.0	0.0	0.0	T OPEN 1841 hr
C. In Shut-in	696.0	710.0	715.0	0.0	0.0	T PULLED 2341 hr
D. Init Flow	88.0	110.0	94.0	0.0	0.0	T OUT 0220 hr
E. Final Flow	128.0	141.0	140.0	0.0	0.0	
F. Fl Shut-in	1827.0	1848.0	1859.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2437.0	2468.0	2454.0	0.0	0.0	Tool Wt. 2000.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 28000.00 lbs
						Wt Pulled Loose 102000.00 lbs
						Initial Str Wt 91000.00 lbs
						Unseated Str Wt 91000.00 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 495.00 ft
						D.P. Length 4617.00 ft

RECOVERY

Tot Fluid 240.00 ft of 240.00 ft in DC and 0.00 ft in DP
 4870.00 ft of GAS IN PIPE
 240.00 ft of DRILLING MUD
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 6000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

INITIAL BLOW

STRONG BLOW, BOTTOM OF BUCKET IN 85
 SEC, GAS TO SURFACE IN 14 MIN

FINAL BLOW

STRONG BLOW

SAMPLES: gas sample caught
 SENT TO: THURMOND-MCGLOTHLIN

MUD DATA-----

Mud Type CHEMICAL
 Weight 9.10 lb/cf
 Vis. 46.00 S/L
 W.L. 9.60 in3
 F.C. 0.00 in
 Mud Drop

Amt. of fill 4.00 ft
 Btm. H. Temp. 122.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased Y 2.00 ft
 Tester GARY PEVOTEAUX
 Co. Rep. LARRY BENEDICT
 Contr. EAGLE DRLG.
 Rig # 1
 Unit #
 Pump T.

Test Successful: Y

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : SAMUEL GARY JR. & ASSOC.
 WELL NAME: PHILLIPS #1-7
 LOCATION : 1-33S-19W
 INTERVAL : 5134.00 To 5240.00 ft

DATE 5-3-95
 KB 2061.00 ft
 GR 2048.00 ft
 TD 5240.00 ft

TICKET NO: 8315 DST #1
 FORMATION: MISSISSIPPI
 TEST TYPE: CONVENTIONAL

CONFIDENTIAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA
PF 30 Rec.	13788	13788	2346			PF Fr. 30 to hr
SI 90 Range(Psi)	4650.0	4650.0	4995.0	0.0	0.0	IS Fr. 0 to 1.5 hr
SF 60 Clock(hrs)	22993	22993				SF Fr. 0 to 1 hr
FS 120 Depth(ft)	5237.0	5237.0	5210.0	0.0	0.0	FS Fr. 0 to 2 hr

	Field	1	2	3	4
A. Init Hydro	2484.0	2529.0	2510.0	0.0	0.0
B. First Flow	130.0	149.0	135.0	0.0	0.0
B1. Final Flow	137.0	149.0	144.0	0.0	0.0
C. In Shut-in	696.0	710.0	715.0	0.0	0.0
D. Init Flow	88.0	110.0	94.0	0.0	0.0
E. Final Flow	128.0	141.0	140.0	0.0	0.0
F. Fl Shut-in	1827.0	1848.0	1859.0	0.0	0.0
G. Final Hydro	2437.0	2468.0	2454.0	0.0	0.0
Inside/Outside	0	0	I		

T STARTED 1638 hr
 T ON BOTM 1840 hr
 T OPEN 1841 hr
 T PULLED 2341 hr
 T OUT 0220 hr

TOOL DATA

Tool Wt. 2000.00 lbs
 Wt Set On Packer 28000.00 lbs
 Wt Pulled Loose 102000.00 lbs
 Initial Str Wt 91000.00 lbs
 Unseated Str Wt 91000.00 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 495.00 ft
 D.P. Length 4617.00 ft

RECOVERY

Tot Fluid 240.00 ft of 240.00 ft in DC and 0.00 ft in DP
 4870.00 ft of GAS IN PIPE
 240.00 ft of DRILLING MUD
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 6000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

INITIAL BLOW

STRONG BLOW, BOTTOM OF BUCKET IN 85
 SEC, GAS TO SURFACE IN 14 MIN

FINAL BLOW

STRONG BLOW

SAMPLES: gas sample caught
 SENT TO: THURMOND-MCGLOTHLIN

MUD DATA

Mud Type CHEMICAL
 Weight 9.10 lb/cf
 Vis. 46.00 S/L
 W.L. 9.60 in3
 F.C. 0.00 in
 Mud Drop

Amt. of fill 4.00 ft
 Btm. H. Temp. 122.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased Y 2.00 ft
 Tester GARY PEVOTEAUX
 Co. Rep. LARRY BENEDICT
 Contr. EAGLE DRLG.
 Rig # 1
 Unit #
 Pump T.

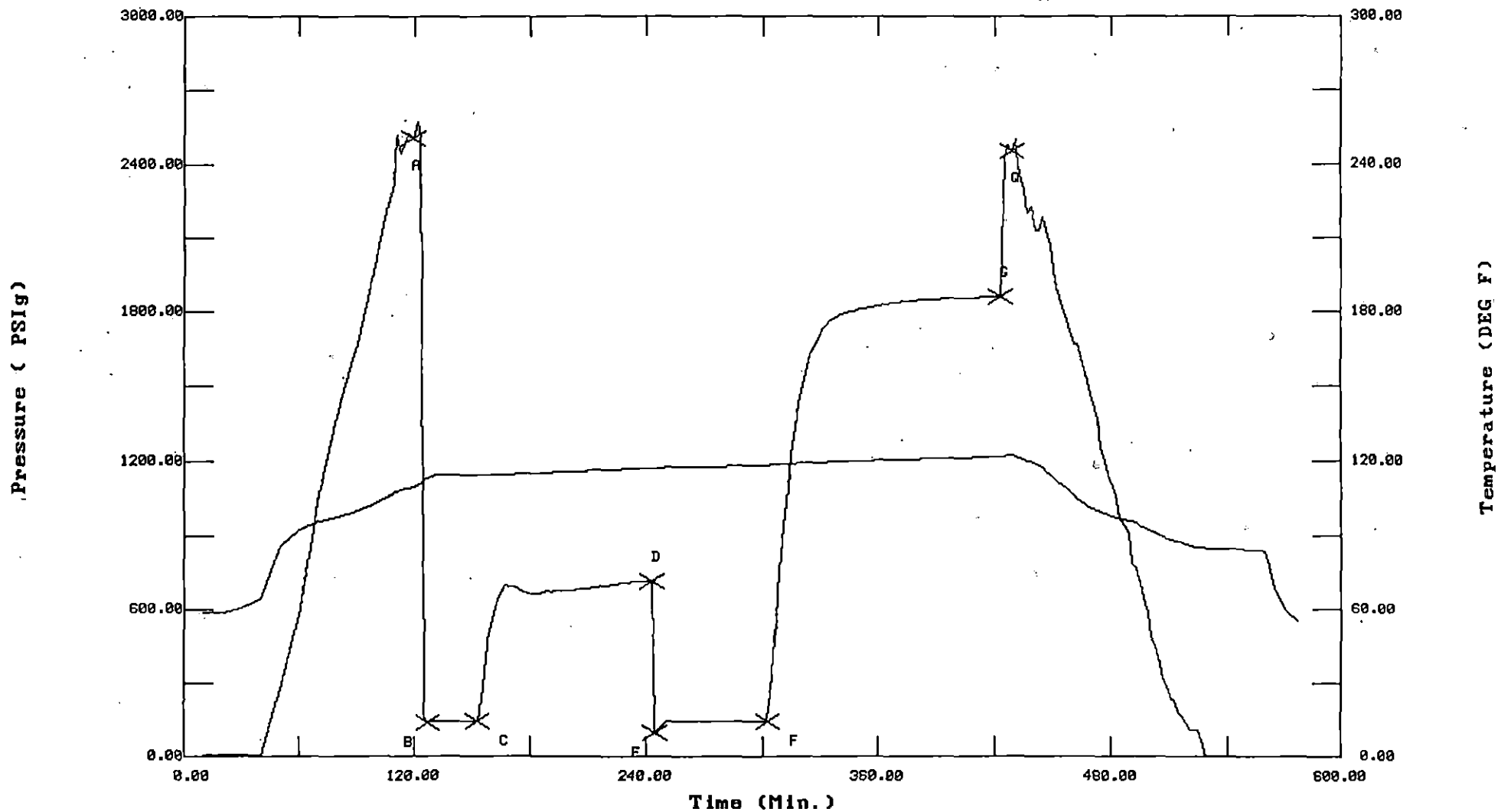
Test Successful: Y

TEST HISTORY

SAMUEL GARY JR. & ASSOC. INC. PHILLIPS#1-7 DST #1

Flag Points
t (Min.) P (PSig)

R:	0.00	2510.44
B:	0.00	135.12
C:	26.00	144.10
D:	90.00	715.14
E:	0.00	93.82
F:	50.00	139.90
G:	120.00	1858.82
Q:	0.00	2454.21



GAS RECOVERY

COMPANY: SAMUEL GARY JR. & ASSOC.

DATE: 5-3-95

WELL NAME: PHILLIPS #1-7

KB Elev: 2061.00 ft TICKET #8315 DST #1

WELL LOCATION: SEC.1-33S-19W

GR Elev: 2048.00 ft FORMATION: MISS.

INTERVAL Fr.: 5134.00 To 5240.00 T.D.: 5240.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH MERLA

*** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
15	0.50	0	18	26600.0
20	0.50	0	26	31900.0
30	0.50	0	30	34300.0

*** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.50	0	42	40700.0
20	0.50	0	28	33200.0
30	0.50	0	28	33200.0
40	0.50	0	28	33200.0
50	0.50	0	28	33200.0
60	0.50	0	28	33200.0

THURMOND - MCGLOTHLIN, INC
 P. O. BOX 885 LIBERAL, KS 67901
 (316) 626-4218

fractional Analysis *

Date Run: 09-May-95

Components		Mol %	Gpm
Carbon Dioxide	C02	0.0319	
Nitrogen	N2	2.0945	
Ethane	C1	92.8169	15.6732
Propane	C2	2.9114	0.7744
iso-Butane	C3	0.7988	0.2189
n-Butane	IC4	0.1581	0.0515
iso-Pentane	NC4	0.3284	0.1030
n-Pentane	IC5	0.1221	0.0444
Hexane +	NC5	0.0874	0.0315
Helium	C6+	0.4932	0.2112
	He	0.1573	
		100.0000	

Company: SAMUEL GARY JR
 Producer:
 Lease: PHILLIPS 1-24
 Station:
 Pressure:
 Temperature:
 Cylinder No.: #51
 Analysis By: TM-LIBERAL
 Secured By: TRILOBITE
 Date Sampled: 5/95

Gasoline Content @ 14.65 Psia & 60 F

	GPM
Propane & Heavier	0.6605
Butane & Heavier	0.4416
Pentane & Heavier	0.2872

Remarks:

Wet @ 14.65 Psia & 60 F

Dry	1056.57
Wet	1038.08

Results To:
 TRILOBITE TESTING
 ATTN: TINA
 FAX: 913/625-5620

SPECIFIC GRAVITY
 0.6090

* Based on GPA 2145 & 2172

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: PHILLIPS #1-7
 LOCATION : SEC.1-33s-19w
 TICKET No. 8315 D.S.T. No. 1 DATE 5-3-95
 TOTAL TOOL TO BOTTOM OF TOP PACKERS 28
 INTERVAL TOOL
 BOTTOM PACKERS AND ANCHOR 43
 TOTAL TOOL 71
 RILL COLLAR ANCHOR IN INTERVAL 106
 .C. ANCHOR STND.Stands1 Single 0 Total 63
 .P. ANCHOR STND.Stands 0 Single 0 Total
 TOTAL ASSEMBLY 134
 .C. ABOVE TOOLS.Stands8 Single 0 Total 495
 .P. ABOVE TOOLS.Stands74 Single 1 Total 4617
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5246
 TOTAL DEPTH 5240
 TOTAL DRILL PIPE ABOVE K.B. 6
 REMARKS:

P.O. SUB	
C.O. SUB C.O. SUB	5109
S.I. TOOL S.I. TOOL	5114
HMV HMV HYD. TOOL	5119
JARS JARS	5124
SAFETY JOINT SFTY. JT.	5126
PACKER TOP PKR.	5129
PACKER BTM. PKR. DEPTH 5134	5134
STUBB STUBB	5135
ANCHOR 5' PERF TO	5140
1' C.O.SUB TO	5141
DRILL COLLAR FROM	5141
1 STAND	
63' TO	5204
1' C.O.SUB	5205
T.C. DEPTH	
30' PERF FROM	5205
ALPINE REC. AT	5210
30' PERF CONT. TO	5235
AK-1 REC. AT	5237
BULLNOSE	
T.D. 5' BULL PLUG	5240

TRILOBITE TESTING L.L.C.

OPERATOR : SAMUEL GARY JR. & ASSOC.
 WELL NAME: PHILLIPS #1-7
 LOCATION : 1-33s-19w
 INTERVAL : 5264.00 To 5320.00 ft

DATE 5-4-95

KB 2061.00 ft TICKET NO: 8316 DST #2
 GR 2048.00 ft FORMATION: MISSISSIPPI
 TD 5320.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	13788	13788	2346			PF Fr. 15 to hr
SI 60 Range(Psi)	4650.0	4650.0	4995.0	0.0	0.0	IS Fr. 0 to 1 hr
SF 60 Clock(hrs)	22993	22993				SF Fr. 0 to 1 hr
FS 120 Depth(ft)	5278.0	5278.0	5270.0	0.0	0.0	FS Fr. 0 to 2 hr

	Field	1	2	3	4	
A. Init Hydro	2516.0	2518.0	2531.0	0.0	0.0	T STARTED 1801 hr
B. First Flow	291.0	304.0	297.0	0.0	0.0	T ON BOTM 2020 hr
B1. Final Flow	95.0	122.0	105.0	0.0	0.0	T OPEN 2021 hr
C. In Shut-in	1696.0	1702.0	1728.0	0.0	0.0	T PULLED 0040 hr
D. Init Flow	305.0	319.0	311.0	0.0	0.0	T OUT 0250 hr
E. Final Flow	44.0	58.0	64.0	0.0	0.0	
F. Fl Shut-in	1848.0	1873.0	1883.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2460.0	2435.0	2485.0	0.0	0.0	Tool Wt. 2000.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 23000.00 lbs

RECOVERY

Tot Fluid 75.00 ft of 75.00 ft in DC and 0.00 ft in DP
 5163.00 ft of GAS IN PIPE
 75.00 ft of DRLG. MUD
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

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 278.00 ft
 D.P. Length 4960.00 ft

SALINITY 11000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

INITIAL BLOW -
 STRONG BLOW, BOTTOM OF BUCKET
 IMMEDIATELY, GAS TO SURFACE IN 2 MIN

FINAL BLOW -
 STRONG BLOW

MUD DATA-----

Mud Type CHEMICAL
 Weight 9.20 lb/cf
 Vis. 48.00 S/L
 W.L. 10.80 in3
 F.C. 0.00 in
 Mud Drop

Amt. of fill 0.00 ft
 Btm. H. Temp. 127.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester GARY PEVOTEAUX
 Co. Rep. BENEDICT /McCOY
 Contr. EAGLE DRLG.
 Rig # 1
 Unit #
 Pump T.

SAMPLES: gas sample caught
 SENT TO: THURMOND-MCGLOTHLIN

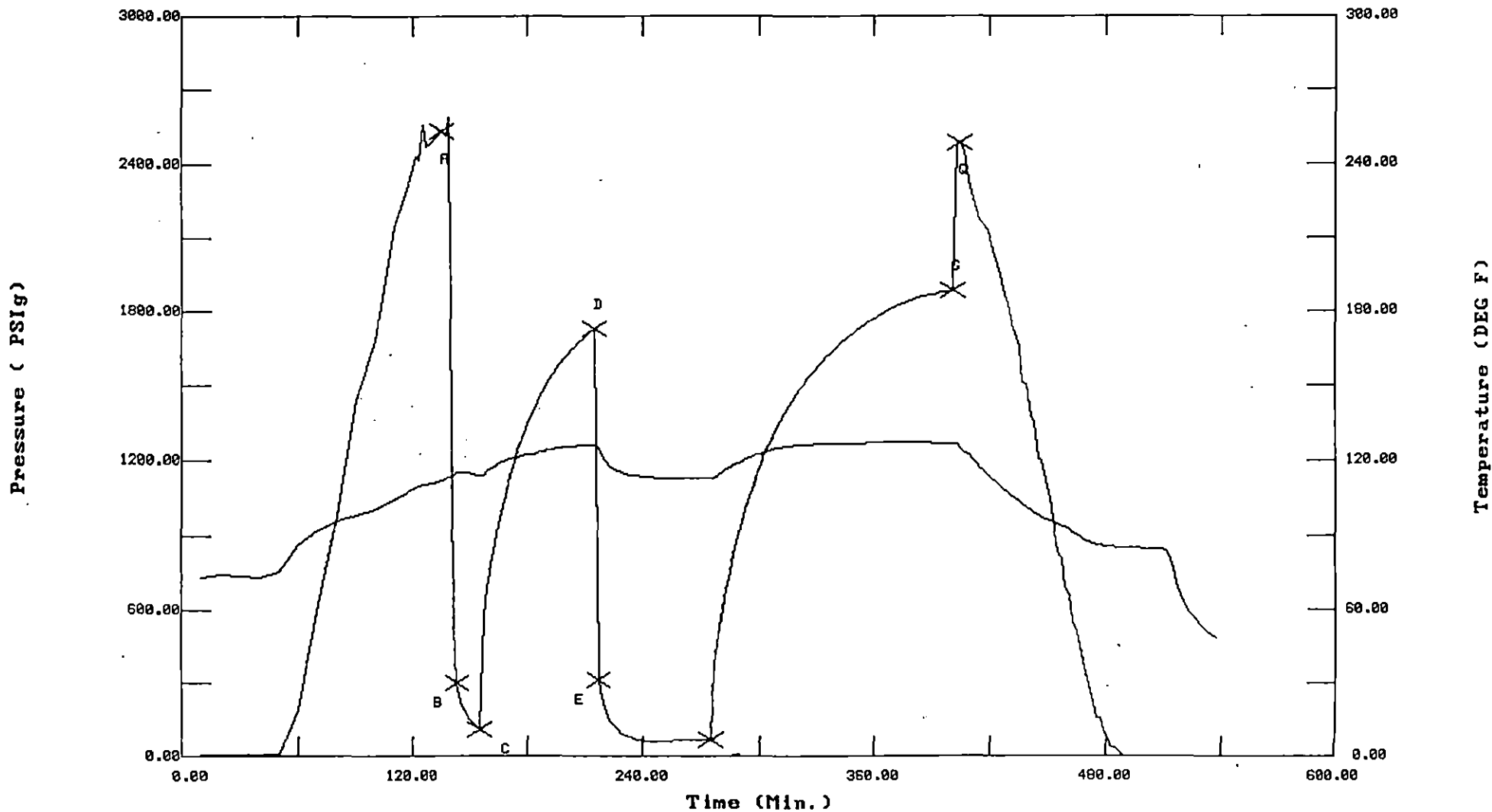
Test Successful: Y

TEST HISTORY

SAMUEL GARY JR. & ASSOC. PHILLIPS#1-7 DST#2

Flag Points

	t (Min.)	P (PSig)
A	0.00	2530.67
B	0.00	296.84
C	12.00	104.73
D	60.00	1727.81
E	0.00	310.61
F	58.00	64.82
G	126.00	1882.66
Q	0.00	2484.84



Operator.....: SAMUEL GARY JR & ASSOC
Well Name.....: PHILLIPS #1-7
DST Number.....: 2

Location.: 1-33S-19W Recorder No...: 2346
Test Type: CONVENTIONAL Recorder Depth: 5270
Formation: MISSISSIPPI Test Interval.: 5264-5320

RESERVOIR CALCULATIONS: Gas calculations based on shut-in #2

RESERVOIR PARAMETERS USED:

Net Pay.....: 12.00 ft
Porosity.....: 5.00 %
Bottom Hole Temp.....: 127.00 F
Specific Gravity.....: 0.662
Z factor.....: %7/3f %s
Compressibility.....: 0.000008 /psi
Viscosity.....: 0.0169 cp
Total Flowing Time.....: 75.00 min.
Flow Rate.....: 193.00
Final Flowing Pressure.....: 64.00 psi
Horner Slope.....: 4.4657 *10⁶ psi²/cycle
Extrapolated Pressure.....: 2099.00 psi
Assumed Drainage Radius.....: 1666.00 ft
Well Bore Radius.....: 3.94 in

RESULTS:

Effective Permeability.....: 0.057980 md
Flow Capacity.....: 0.6958 md.ft
Transmissibility.....: 41.1690 md.ft/cp
Skin Factor.....: -1.8412
Pressure Drop Across Skin.....: -64.0000 psi
Radius of Investigation.....: 92.1198 ft
Damage Ratio.....: 0.2259
Absolute Open Flow.....: 193.2483
Absolute Open Flow W/O Damage.: 193.2483
Estimated Stabilized AOF.....: 18.0237

Operator.....: SAMUEL GARY JR & ASSOC
Well Name.....: PHILLIPS #1-7
DST Number.....: 2

Location.: 1-33S-19W Recorder No...: 2346
Test Type: CONVENTIONAL Recorder Depth: 5270
Formation: MISSISSIPPI Test Interval.: 5264-5320

RESERVOIR CALCULATIONS: Gas calculations based on shut-in #2

RESERVOIR PARAMETERS USED:

Net Pay.....: 17.00 ft
Porosity.....: 10.00 %
Bottom Hole Temp.....: 127.00 F
Specific Gravity.....: 0.662
Z factor.....: %7/3f %s
Compressibility.....: 0.000008 /psi
Viscosity.....: 0.0169 cp
Total Flowing Time.....: 75.00 min.
Flow Rate.....: 193.00
Final Flowing Pressure.....: 64.00 psi
Horner Slope.....: 4.4657 *10⁶ psi²/cycle
Extrapolated Pressure.....: 2099.00 psi
Assumed Drainage Radius.....: 1666.00 ft
Well Bore Radius.....: 3.94 in

RESULTS:

Effective Permeability.....: 0.040927 md
Flow Capacity.....: 0.6958 md.ft
Transmissibility.....: 41.1690 md.ft/cp
Skin Factor.....: -1.3207
Pressure Drop Across Skin.....: -64.0000 psi
Radius of Investigation.....: 54.7273 ft
Damage Ratio.....: 0.2520
Absolute Open Flow.....: 193.2289
Absolute Open Flow W/O Damage.: 193.2289
Estimated Stabilized AOF.....: 18.0237

GAS RECOVERY

COMPANY: SAMUEL GARY JR. & ASSOC.

DATE: 5-4-95

WELL NAME:

KB Elev: 2061.00 ft TICKET #8316 DST #2

WELL LOCATION: 1-33s-19w

GR Elev: 2048.00 ft FORMATION: MISSISSIPPI

INTERVAL Fr.: 5264.00 To 5320.00 T.D.: 5320.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH MERLA

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	1.25	25	0	1421000.0
10	1.25	21	0	1270000.0
15	1.25	11	0	847000.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	1.00	36	0	1076000.0
10	1.00	26	0	865000.0
15	0.75	21	0	411000.0
20	0.75	17	0	357000.0
25	0.75	13	0	303000.0
30	0.75	11	0	274000.0
40	0.50	23	0	193000.0
50	0.50	23	0	193000.0
60	0.50	23	0	193000.0

THURMOND - McGLATHLIN, INC
 P. O. BOX 885 LIBERAL, KS 67901
 (316) 626-4218

Component Analysis *

Components		Mol %	Gpm
Carbon Dioxide	CO2	0.0420	
Nitrogen	N2	2.6704	
Ethane	C1	88.3412	14.9275
Propane	C2	4.1520	1.1044
Isobutane	C3	1.7356	0.4756
Normal Butane	IC4	0.2634	0.0857
Normal Pentane	NC4	0.7004	0.2196
Normal Pentane	IC5	0.2456	0.0894
Normal Hexane	NC5	0.3001	0.1081
Normal Hexane +	C6+	1.3398	0.5738
Helium	He	0.2095	
		100.0000	

Date Run: 09-May-95
 Company: SAMUEL GARY JR
 Producer:
 Lease: PHILLIPS 1-24
 Station:
 Pressure:
 Temperature:
 Cylinder No.: #107
 Analysis By: TM-LIBERAL
 Secured By: TRILOBITE
 Date Sampled: 5/95

Gasoline Content @ 14.65 Psia & 60 F

	GPM
Ethane & Heavier	1.5523
Propane & Heavier	1.0767
Isobutane & Heavier	0.7713

Remarks:

@ 14.65 Psia & 60 F
 1129.10
 1109.34

Results To:
 TRILOBITE TESTING
 ATTN: TINA
 FAX: 913/625-5620

DENSITY GRAVITY
 0.6623

Based on GPA 2145 & 2172

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME:

LOCATION : 1-33s-19w

TICKET No. 8316 D.S.T. No. 2 DATE 5-4-95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 31

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 24

TOTAL TOOL 55

DRILL COLLAR ANCHOR IN INTERVAL 56

D.C. ANCHOR STND.Stands Single 1 Total 32

D.P. ANCHOR STND.Stands 0 Single 0 Total

TOTAL ASSEMBLY 87

D.C. ABOVE TOOLS.Stands4 Single 1 Total 278

D.P. ABOVE TOOLS.Stands80 Single 0 Total 4960

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5325

TOTAL DEPTH 5320

TOTAL DRILL PIPE ABOVE K.B. 5

REMARKS:

FLUID SAMPLER DATA

SAMPLER RECOVERY -

GAS .94 CU FT; MUD 210 ML; WATER 21 ML;

PRESSURE 495 PSI; TOTAL FLUID - 231 ML

SAMPLER ANALYSIS -

RESISTIVITY 3.39 OHMS @ 73 F;

CHLORIDES 11,000 PPM

PIT MUD ANALYSIS -

CHLORIDES 9,500 PPM; RESIS 4.05 OHMS @ 65F

VISCOSITY 48; MUD WT 9.2; FILTRATE 10.8

PIPE RECOVERY -

BOTTOM - 75' DRILLING MUD

RESISTIVITY 3.39 OHMS @ 73 F;

CHLORIDES 11,000 PPM

P.O. SUB	
C.O. SUB C.O. SUB	5227
S.I. TOOL S.I. TOOL	5233
SAMPLE CHAMBER	5236
HMV HMV HYD. TOOL	5249
JARS JARS	5254
SAFETY JOINT SFTY. JT.	5256
PACKER TOP PKR.	5259
PACKER BTM. PKR.	5264
DEPTH 5264	
STUBB STUBB	5265
ANCHOR 16' P	
E ALPINE	5270
R	
F AK-1	5278
TO	5281
1'C.O.SUB	5282
1 JT.DRILL COLLAR	
TO	
T.C.	5314
DEPTH	
1'C.O.	5315
BULLNOSE	
T.D. 5' BULL PLUG	5320

TRILOBITE TESTING L.L.C.

OPERATOR : SAMUEL GARY JR. & ASSOC.
 WELL NAME: PHILLIPS #1-7
 LOCATION : SEC.1-33a-19w
 INTERVAL : 5890.00 To 5905.00 ft

DATE 05/08/95

KB 2061.00 ft TICKET NO: 8317 DST #3
 GR 2048.00 ft FORMATION: VIOLA
 TD 5905.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	13788	13788	2346			PF Fr. 15 to hr
SI 90 Range(Psi)	4650.0	4650.0	4995.0	0.0	0.0	IS Fr. 0 to 1.5 hr
SF 120 Clock(hrs)	22993	22993				SF Fr. 0 to 2 hr
FS 240 Depth(ft)	5902.0	5902.0	5895.0	0.0	0.0	FS Fr. 0 to 4 hr

	Field	1	2	3	4	
A. Init Hydro	2834.0	2898.0	2887.0	0.0	0.0	T STARTED 0025 hr
B. First Flow	93.0	109.0	91.0	0.0	0.0	T ON BOTM 0234 hr
B1. Final Flow	123.0	133.0	141.0	0.0	0.0	T OPEN 0235 hr
C. In Shut-in	2063.0	2074.0	2082.0	0.0	0.0	T PULLED 1020 hr
D. Init Flow	135.0	157.0	132.0	0.0	0.0	T OUT 1610 hr
E. Final Flow	500.0	521.0	521.0	0.0	0.0	
F. Fl Shut-in	2042.0	2052.0	2056.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2782.0	2778.0	2782.0	0.0	0.0	Tool Wt. 2000.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 95000.00 lbs
						Initial Str Wt 85000.00 lbs
						Unseated Str Wt 90000.00 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 310.00 ft
						D.P. Length 5566.00 ft

RECOVERY

Tot Fluid 2720.00 ft of 310.00 ft in DC and 2410.00 ft in DP
 3156.00 ft of GAS IN PIPE
 2600.00 ft of GASSY OIL - 55% GAS, 45% OIL
 120.00 ft of GASSY OIL CUT MUD - 20% GAS, 15% OIL, 15% H2O
 0.00 ft of 50% MUD
 0.00 ft of
 0.00 ft of REVERSED 10.8 BBLs OIL TO FRACK TANK; DUMPED
 0.00 ft of APPROX 4 BBLs ON RIG FLOOR
 0.00 ft of
 SALINITY 9000.00 P.P.M. A.P.I. Gravity 32.00

MUD DATA-----	
Mud Type	CHEMICAL
Weight	9.10 lb/c
Vis.	53.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop	

BLOW DESCRIPTION

INITIAL BLOW -
 STRONG BLOW, BTM OF BUCKET IN 40 SEC
 GAS TO SURFACE IN 9 MIN

FINAL BLOW -
 STRONG BLOW

Amt. of fill	0.00 ft
Btm. H. Temp.	138.00 F
Hole Condition	good
% Porosity	10.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	Y
Tool Chased	N
Tester	GARY PEVOTEAUX
Co. Rep.	BENEDICT /McCOY
Contr.	EAGLE DRLG.
Rig #	1
Unit #	
Pump T.	

SAMPLES: gas sample caught
 SENT TO: THURMOND-MCGLOTHLIN

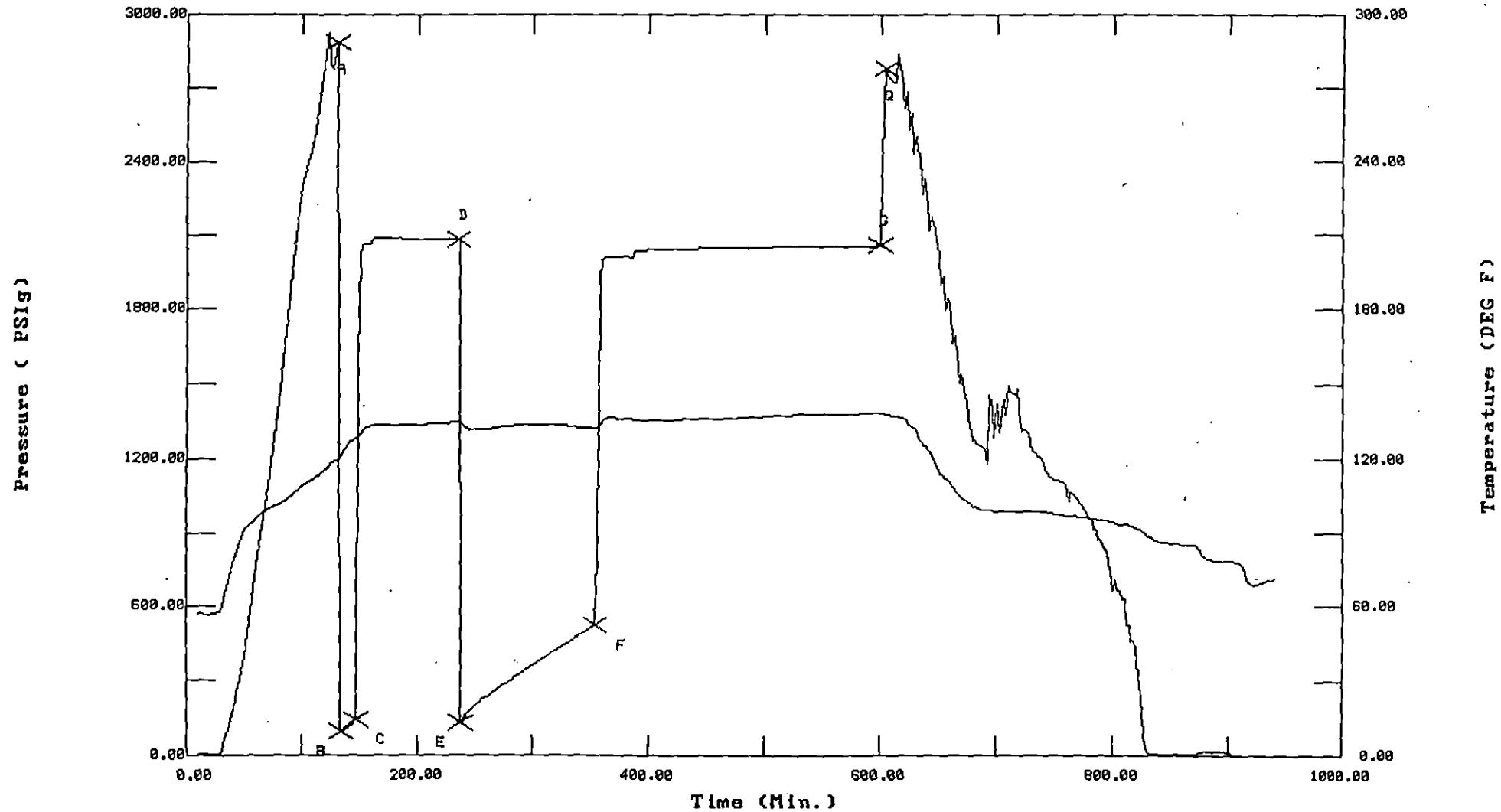
Test Successful: Y

TEST HISTORY

SAMUEL GARY JR. & ASSOC. PHILLIPS#1-7 DST#-3

Flag Points
t (Min.) P (PSig)

A:	0.00	2887.02
B:	0.00	91.30
C:	12.00	140.82
D:	90.00	2002.06
E:	0.00	131.76
F:	116.00	520.76
G:	246.00	2055.64
Q:	0.00	2781.61



Operator.....: SAMUEL GARY JR & ASSOC
Well Name.....: PHILLIPS 1-7
DST Number.....: 3

Location.: 1-33S-19W
Test Type: CONVENTIONAL
Formation: VIOLA
Recorder No...: 2346
Recorder Depth: 5895
Test Interval.: 5890-5905

RESERVOIR CALCULATIONS: Fluid calculations based on shut-in #2

RESERVOIR PARAMETERS USED:

Net Pay.....: 8.00 ft
Porosity.....: 12.00 %
Bottom Hole Temp.....: 140.00 F
Specific Gravity.....: 0.865
API Gravity.....: 32.00
Compressibility.....: 0.000009 /psi
Viscosity.....: 1.7677 cp
Total Recovery.....: 2720.00 ft
Total Flowing Time.....: 135.00 min.
Flow Rate.....: 157.87 bbls/d
Final Flowing Pressure.....: 521.00 psi
Horner Slope.....: 46.5606 psi/cycle
Extrapolated Pressure.....: 2062.12 psi
Formation Volume Factor.....: 1.15 Reservoir/Surface
Well Bore Radius.....: 3.94 in

RESULTS:

Effective Permeability.....: 140.093504 md
Flow Capacity.....: 1120.7480 md.ft
Transmissibility.....: 634.0148 md.ft/cp
Skin Factor.....: 31.6777
Radius of Investigation.....: 372.63367 ft
Damage Ratio.....: 5.9346
Productivity Index.....: 0.1024 bbls/psi.d
Productivity Index W/O Damage.: 0.6079 bbls/psi.d

GAS RECOVERY

COMPANY: SAMUEL GARY JR. & ASSOC.

DATE: 05/08/95

WELL NAME: PHILLIPS#1-7

KB Elev: 2061.00 ft TICKET #8317 DST #3

WELL LOCATION: SEC.1-33s-19w

GR Elev: 2048.00 ft FORMATION: VIOLA

INTERVAL Fr.: 5890.00 To 5905.00 T.D.: 5905.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH MERLA

**** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.75	2	0	121000.0
15	0.75	3	0	133000.0

**** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.75	3	0	133000.0
10	0.75	4	0	166000.0
15	0.75	6	0	185000.0
20	0.75	6	0	202000.0
25	0.75	6	0	194000.0
30	0.75	6	0	194000.0
40	0.75	5	0	175000.0
50	0.75	4	0	166000.0
60	0.75	4	0	166000.0
70	0.75	4	0	156000.0
80	0.75	4	0	156000.0
90	0.75	4	0	144000.0
110	0.75	4	0	144000.0
120	0.75	4	0	144000.0

NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L.L.C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:
Caraway Analytical, L.L.C.
728 North Roosevelt
Liberal, Kansas 67901
Phone: 316-324-5389
Fax: 316-626-7108

Lab Number:	950225	Analyzed:	05/08/95
Sample From:	Phillips #1-7 DST 3	Pressure:	
Producer:	Samuel Gary Jr. & Associates	Temperature:	
Date:		Location:	1-33S-19W
Time:		County:	Comanche
Sampler:		State:	Kansas
Source:		Formation:	Viola

		Mole %	GPM
Helium	He:	0.199	0.000
Oxygen	O2:	0.000	0.000
Nitrogen	N2:	4.154	0.000
Carbon Dioxide	CO2:	0.157	0.000
Methane	C1:	81.465	0.000
Ethane	C2:	6.557	1.754
Propane	C3:	3.503	0.965
Iso Butane	iC4:	0.530	0.173
Normal Butane	nC4:	1.544	0.487
Iso Pentane	iC5:	0.333	0.122
Normal Pentane	nC5:	0.526	0.191
Hexanes Plus	C6+:	1.032	0.450

TOTAL:	100.000	4.142
Z Fact:	0.9969	
SP.GR.:	0.7139	
BTU (SAT):	1167.6	@ 14.73 psia
BTU (DRY):	1188.3	@ 14.73 psia
OCTANE RATING:	118.7	

COMMENTS:

