

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- 15-033-20960-0000

County COMANCHE

SW - SW - SW - Sec. 34 Twp. 32 Rge. 19 X E

330 Feet from S/ (circle one) Line of Section

330 Feet from /W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
 (circle one)

Lease Name HERD Well # 34-13

Field Name COLTER WEST

Producing Formation MISSISSIPPI/FT SCOTT

Elevation: Ground 1922 KB 1935

Total Depth 5500 PBSD 5424

Amount of Surface Pipe Set and Cemented at 662 Feet

Multiple State Cementing Collar Used? Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan Att. 1, 9-23-98 etc.
(Data must be collected from the Reserve Pit)

Chloride content _____ ppm Fluid Volume _____ bbls

Dewatering method used _____

Location of fluid disposal if RELEASED

Operator Name MAY 08 2001

Lease Name _____

Quarter Sec. FROM CONFIDENTIAL Twp. 32 Rge. 19 X W

County _____ Docket No. _____

Operator: License # 3882

Name: SAMUEL GARY JR. & ASSOCIATES, INC.

Address 1670 BROADWAY

SUITE 3300

City/State/Zip DENVER CO 80202-4838

Purchaser: PACIFIC GAS & ELECTRIC

Operator Contact Person: TOM FERTAL

Phone 303-831-4673

Contractor: Name: DUKE DRILLING CO., INC.

License: 5929

Wellsite Geologist: DALE PADGETT

Designate Type of Completion

X New Well _____ Re-Entry _____ Workover _____

_____ Oil _____ SWD _____ SIOW _____ Temp. Abd.

X Gas _____ ENHR _____ SIGW _____

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

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

Operator: SEP 10 1998

Well Name: _____

Comp. Date _____ Old Total Depth _____

_____ Deepening _____ Re-Perf. _____ Conv. to Inj/SWD

_____ Plug Back _____ PBSD

_____ Commingled _____ Docket No. _____

X Dual Completion _____ Docket No. NO DOCKET #

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

5/21/98 6/2/98 6/30/98
Spud Date Date Reached TD Completion Date

CONFIDENTIAL

OIL & GAS CONSERVATION DIVISION
WICHITA, KANSAS

SEP 15 1998

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INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 South Market, Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 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 geological 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 Senior Geologist Date Sept. 10, 1998

Subscribed and sworn to before me this 10 day of SEPTEMBER, 1998.

Notary Public Ann O'Shea

Date Commission Expires 8-24-2002

| | | |
|------------------------|------------------------------------|-----------------------|
| K.C.C. OFFICE USE ONLY | | |
| F <u>Yes</u> | Letter of Confidentiality Attached | |
| C <u>Yes</u> | Wireline Log Received | |
| C _____ | Geologist Report Received | |
| <u>✓</u> | KCC | _____ SWD/Rep |
| _____ | KGS | _____ Plug |
| _____ | _____ | _____ NGPA |
| _____ | _____ | _____ Other (Specify) |

X

JAN 1990

Operator Name SAMUEL GARY JR. & ASSOCIATES, INC. Lease Name HERD Well # 34-13

Sec. 34 Twp. 32 Rge. 19 East West County COMANCHE

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

| | | | | |
|---|---|---|-----------------------------------|---------------------------------|
| Drill Stem Tests Taken (Attach Additional Sheets.) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Log | Formation (Top), Depth and Datums | <input type="checkbox"/> Sample |
| Samples Sent to Geological Survey | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Name | Top | Datum |
| Cores Taken | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | STONE CORRAL | 903 | +1032 |
| Electric Log Run (Submit Copy.) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | WABAUNSEE | 3316 | -1381 |
| List All E. Logs Run: | | BASE HEEBNER SH | 4199 | -2264 |
| DUAL INDUCTION | | LANSING | 4364 | -2429 |
| COMP NEUTRON DENSITY | | MARMATON | 4908 | -2973 |
| MICROLOG | | CHEROKEE | 5015 | -3080 |
| BHC LONG SPACED SONIC | | MISSISSIPPI | 5097 | -3162 |
| | | TD | 5500 | |

| CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used | | | | | | | |
|---|-------------------|---------------------------|-----------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. | | | | | | | |
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs./Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| CONDUCTOR | | 20" | | 35' | | 3 YDS | |
| SURFACE | 12-1/4" | 8-5/8" | 24 | 662 | CLASS A | 325 | 3% CC, 2% GEL, 1/4# floeal |
| PRODUCTION | 7-7/8" | 5-1/2" | 15.50 | 5501 | CLASS H 50/50 | 250 | 10% SALT & floeal |

| ADDITIONAL CEMENTING/SQUEEZE RECORD | | | | | 5% FLOEAL |
|---|------------------|----------------|--------------|----------------------------|-----------|
| 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 | 5214-20, 5224-29 | 500 GAL 15% | |
| 4 | { 5192-96, 5180-82, 5170-77 5162-66, 5154-58 } | 2000 GAL 15% | |
| 4 | 5005-11 | 600 GAL 15% | |
| TUBING RECORD | | Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| | Size 2-3/8" Set At 5138 Packer At 5138 | | |
| Date of First, Resumed Production, SWD or Inj. | | Producing Method | |
| 6/29/98 | | <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) | |
| Estimated Production Per 24 Hours | Oil Bbls. TRC | Gas Mcf 300MCF | Water Bbls. Gas-Oil Ratio Gravity |

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

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

Production Interval: 5154-5229 OA
5005-5011

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : Samuel Gary Jr.&
WELL NAME: Herd #34-13
LOCATION : 39-32s-19w Comanche KS
INTERVAL : 4704.00 To 4726.00 ft

DATE 05/29/98
KB 1935.00 ft
GR 1922.00 ft
TD 4726.00 ft
TICKET NO: 10790
FORMATION: Swope
DST #1
TEST TYPE: CONVENTIONAL

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RECORDER DATA

| Mins | Field | 1 | 2 | 3 | 4 | TIME DATA----- |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 15 Rec. | 10332 | 10332 | 2350 | | | PF Fr. 0108 to 0123 hr |
| SI 90 Range(Psi) | 4025.0 | 4025.0 | 4995.0 | 0.0 | 0.0 | IS Fr. 0123 to 0253 hr |
| SF 45 Clock(hrs) | 12hr. | 12hr. | elec. | | | SF Fr. 0253 to 0338 hr |
| FS 90 Depth(ft) | 4723.0 | 4723.0 | 4710.0 | 0.0 | 0.0 | FS Fr. 0338 to 0508 hr |

| | Field | 1 | 2 | 3 | 4 | |
|----------------|--------|--------|--------|-----|-----|-------------------|
| A. Init Hydro | 2258.0 | 2253.0 | 2263.0 | 0.0 | 0.0 | T STARTED 2239 hr |
| B. First Flow | 304.0 | 300.0 | 248.0 | 0.0 | 0.0 | T ON BOTM 0105 hr |
| Bl. Final Flow | 344.0 | 348.0 | 326.0 | 0.0 | 0.0 | T OPEN 0108 hr |
| C. In Shut-in | 1763.0 | 1775.0 | 1788.0 | 0.0 | 0.0 | T PULLED 0508 hr |
| D. Init Flow | 364.0 | 360.0 | 290.0 | 0.0 | 0.0 | T OUT 0800 hr |
| E. Final Flow | 476.0 | 480.0 | 470.0 | 0.0 | 0.0 | |
| F. Fl Shut-in | 1753.0 | 1763.0 | 1787.0 | 0.0 | 0.0 | |
| G. Final Hydro | 2248.0 | 2232.0 | 2246.0 | 0.0 | 0.0 | |
| Inside/Outside | 0 | 0 | I | | | |

RECOVERY

Tot Fluid 672.00 ft of 236.00 ft in DC and 436.00 ft in DP
30.00 ft of Mud cut water 42% water 58% mud
642.00 ft of 100%water
4032.00 ft of Gas in pipe
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 80000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
Strong blow bottom of bucket in 15 secs. Gas to surface
Initial Shut-in:
Bled down for 20 mins. blow back to 1.4"
Final Flow:
Strong blow bottom of bucket in 10-15 secs. Guage gas
Final Shut-in:
Bled down for 30 mins blow back to 1/2" in H2O bucket.

SAMPLES: Caraway Analytical, Liberal ks,
SENT TO:

Test Successful: Y

TOOL DATA-----

| | |
|------------------|-------------|
| Tool Wt. | 2100.00 lb |
| Wt Set On Packer | 20000.00 lb |
| Wt Pulled Loose | 98000.00 lb |
| Initial Str Wt | 72000.00 lb |
| Unseated Str Wt | 77000.00 lb |
| 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 | 236.00 ft |
| D.P. Length | 4468.00 ft |

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Wichita, Kansas

SEP 15 1998

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CORPORATION INFORMATION

MUD DATA-----

| Mud Type | Chemical |
|----------------|----------------|
| Weight | 9.00 lb |
| Vis. | 44.00 S/ |
| W.L. | 12.40 in |
| F.C. | 0.32 in |
| Mud Drop N | |
| Amt. of fill | 0.00 ft |
| Btm. H. Temp. | 119.00 F |
| Hole Condition | good |
| % Porosity | 0.00 |
| Packer Size | 6.75 in |
| No. of Packers | 2 |
| Cushion Amt. | 0.00 n |
| Cushion Type | none |
| Reversed Out N | |
| Tool Chased N | |
| Tester | Darren Amerine |
| Co. Rep. | Bill Padget |
| Contr. | Duke |
| Rig # | 7 |
| Unit # | none |
| Pump T. | no |

CONFIDENTIAL ORIGINAL

GAS RECOVERY

COMPANY: Samuel Gary Jr. & DATE: 05/29/98
 WELL NAME: Herd #34-13 KB Elev: 1935.00 ft TICKET #10790 DST #1
 WELL LOCATION: 39-32s-19w Comanche KS GR Elev: 1922.00 ft FORMATION: Swope
 INTERVAL Fr.: 4704.00 To 4726.00 T.D.: 4726.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Adj. Choke

*** GAS RATES FOR FLOW #1

| Time (min) | Orifice (in) | Pressure (Psi) | H2O (in) | Rate (cf/d) |
|------------|--------------|----------------|----------|-------------|
| 5 | 0.75 | 13 | 0 | 303000.0 |
| 10 | 0.75 | 30 | 0 | 522000.0 |
| 12 | 0.75 | 45 | 0 | 697000.0 |

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*** GAS RATES FOR FLOW #2

| Time (min) | Orifice (in) | Pressure (Psi) | H2O (in) | Rate (cf/d) |
|------------|--------------|----------------|----------|-------------|
| 5 | 0.75 | 45 | 0 | 697000.0 |
| 10 | 0.75 | 55 | 0 | 814000.0 |
| 15 | 0.75 | 60 | 0 | 872000.0 |
| 20 | 0.75 | 60 | 0 | 872000.0 |
| 25 | 0.75 | 60 | 0 | 872000.0 |
| 30 | 0.75 | 60 | 0 | 872000.0 |
| 35 | 0.75 | 60 | 0 | 872000.0 |
| 40 | 0.75 | 60 | 0 | 872000.0 |
| 45 | 0.75 | 60 | 0 | 872000.0 |

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*** TOOL DIAGRAM *** CONVENTIONAL

CONFIDENTIAL

WELL NAME: Herd #34-13

LOCATION : 39-32s-19w Comanche KS

TICKET No. 10790 D.S.T. No. 1 DATE 05/29/98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 22

TOTAL TOOL 52

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands4 Single Total 236

D.P. ABOVE TOOLS.Stands71 Single 1 Total 4468

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4756

TOTAL DEPTH 4726

TOTAL DRILL PIPE ABOVE K.B. 29

REMARKS:

FLUID SAMPLER DATA
+++++

| | |
|-------------------------|----------------------|
| pit mud analysis | Sampler recovery |
| Clorides--7200-----ppm. | ~~~~~ |
| Res..8--ohms@--80--F. | Gas---3.5 cu.ft |
| Vis--44----- | oil-----ML. |
| Mud weight--9.0----- | mud-----Ml. |
| Filtrate--12.4----- | water-----ML. |
| Other----- | other-----ML. |
| | pressure--500---Psi. |
| | total.---4000---Ml. |

| | |
|------------------------|------|
| P.O. SUB | 4674 |
| C.O. SUB Top of tool @ | 4675 |
| S.I. TOOL | 4680 |
| SAMPLER | 4683 |
| HMV | 4688 |
| JARS | 4693 |
| SAFETY JOINT | 4695 |
| PACKER | 4699 |
| PACKER | 4704 |
| DEPTH 4704 | |
| STUBB 1'stubb to | 4705 |
| ANCHOR 5'perfs to | 4710 |
| Alpine rec.@ 4710 | |
| RELEASED | |
| MAY 0.8 2001 | |
| FROM CONFIDENTIAL | |
| T.C. DEPTH | |
| 11'ofperfs.to | 4710 |
| Ak-1 rec.@4723 | 4721 |
| BULLNOSE 5'Bullnose to | 4726 |
| T.D. | |

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Pressure (PSig)

CONFIDENTIAL

TK#10790 DST#1 Herd #34-13 Sam Gary Jr.

TEST HISTORY

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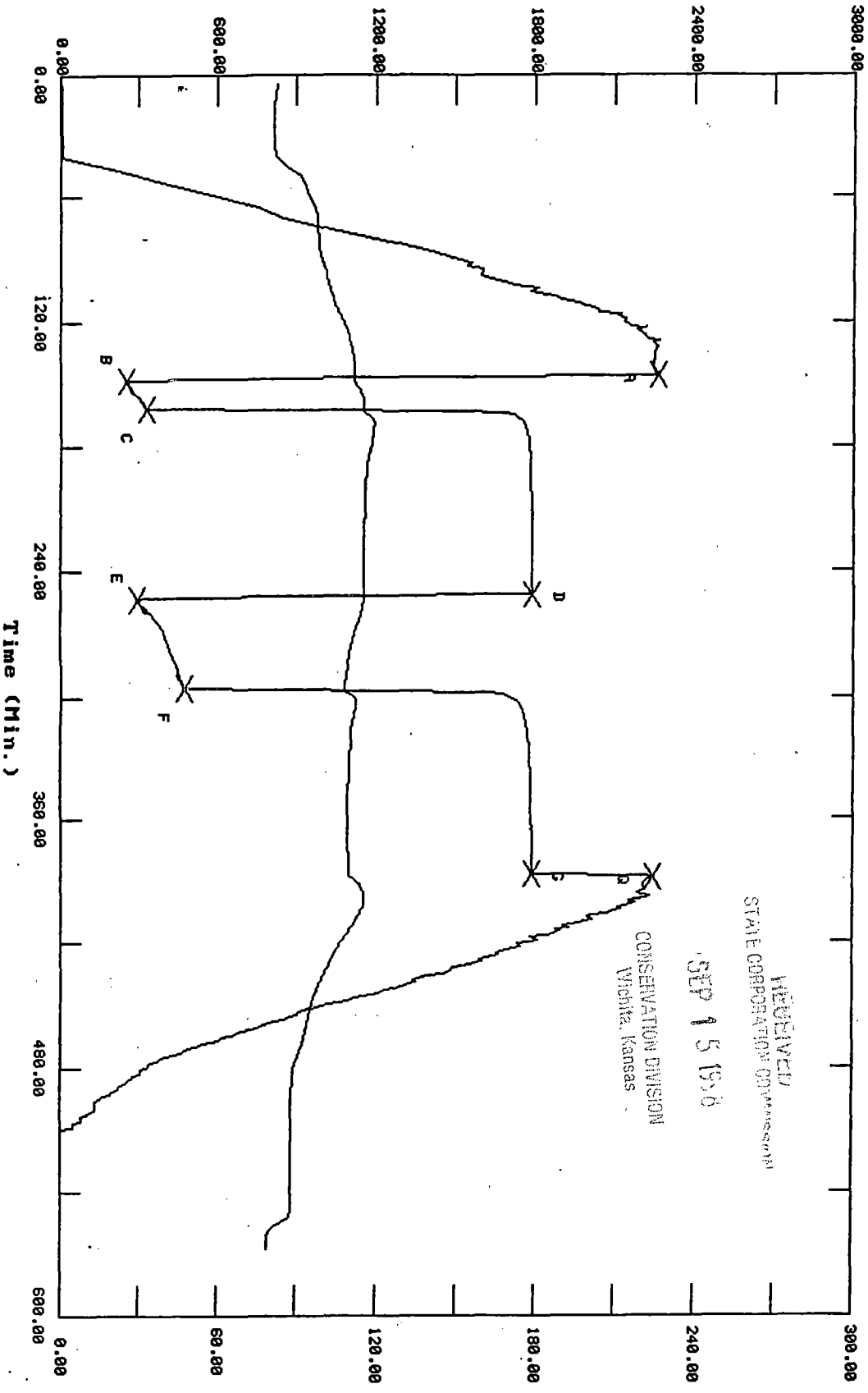
FROM CONFIDENTIAL

| Flag Points | Time (Min.) | Pressure (PSig) |
|-------------|-------------|-----------------|
| R | 0.00 | 2262.77 |
| B | 0.00 | 248.33 |
| C | 14.00 | 326.39 |
| D | 90.00 | 1788.16 |
| E | 0.00 | 290.21 |
| F | 42.00 | 470.32 |
| G | 91.00 | 1787.23 |
| H | 0.00 | 2245.65 |

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Wichita, Kansas



Temperature (DEG F)

TRILOBITE TESTING L.L.C.

CONFIDENTIAL

OPERATOR : Samuel Gary Jr. &
 WELL NAME: Herd #34-13
 LOCATION : 39-32s-19w Comanche KS
 INTERVAL : 4994.00 To 5012.00 ft

DATE 05/31/98
 KB 1935.00 ft TICKET NO: 10791 DST #2
 GR 1922.00 ft FORMATION: Fort Scott
 TD 501226.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

| Mins | Field | 1 | 2 | 3 | 4 | TIME DATA----- |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 10 Rec. | 10332 | 10332 | 2350 | | | PF Fr. 1238 to 1248 hr |
| SI 90 Range(Psi) | 4025.0 | 4025.0 | 4995.0 | 0.0 | 0.0 | IS Fr. 1248 to 1418 hr |
| SF 45 Clock(hrs) | 12hr. | 12hr. | elec. | | | SF Fr. 1418 to 1503 hr |
| FS 90 Depth(ft) | 5009.0 | 5009.0 | 5000.0 | 0.0 | 0.0 | FS Fr. 1503 to 1633 hr |

| | Field | 1 | 2 | 3 | 4 | |
|----------------|--------|--------|--------|-----|-----|-------------------|
| A. Init Hydro | 2408.0 | 2393.0 | 2415.0 | 0.0 | 0.0 | T STARTED 1031 hr |
| B. First Flow | 111.0 | 99.0 | 96.0 | 0.0 | 0.0 | T ON BOTM 1234 hr |
| B1. Final Flow | 101.0 | 99.0 | 120.0 | 0.0 | 0.0 | T OPEN 1238 hr |
| C. In Shut-in | 1196.0 | 1190.0 | 1223.0 | 0.0 | 0.0 | T PULLED 1633 hr |
| D. Init Flow | 111.0 | 98.0 | 95.0 | 0.0 | 0.0 | T OUT 1840 hr |
| E. Final Flow | 101.0 | 90.0 | 97.0 | 0.0 | 0.0 | |
| F. Fl Shut-in | 1196.0 | 1183.0 | 1208.0 | 0.0 | 0.0 | |
| G. Final Hydro | 2398.0 | 2345.0 | 2348.0 | 0.0 | 0.0 | |
| Inside/Outside | 0 | 0 | I | | | |

RECOVERY

Tot Fluid 45.00 ft of 45.00 ft in DC and 0.00 ft in DP
 45.00 ft of Very slight water cut mud 2%water 98%mud
 4940.00 ft of Gas in pipe
 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 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

IF: Strong blow. B.O.B in 10 sec. G.T.S in 2-1/2 mins. Gauge gas.

ISI: Bled down for 20 mins. No B.B.

FF: Strong blow. B.O.B in 10 sec. Gauge gas

FSI: Bled down for 20 mins. No B.B.

SAMPLES: Caraway Analytical, Liberal ks,
 SENT TO:

Test Successful: Y

TOOL DATA-----

| | |
|------------------|-------------|
| Tool Wt. | 2100.00 lb |
| Wt Set On Packer | 20000.00 lb |
| Wt Pulled Loose | 80000.00 lb |
| Initial Str Wt | 77000.00 lb |
| Unseated Str Wt | 77000.00 lb |
| 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 | 266.00 ft |
| D.P. Length | 4219.00 ft |

MUD DATA-----

| Mud Type | Chemical |
|------------|----------|
| Weight | 9.10 lb |
| Vis. | 49.00 S/ |
| W.L. | 9.80 in |
| F.C. | 0.32 in |
| Mud Drop N | |

| | |
|----------------|----------------|
| Amt. of fill | 0.00 ft |
| Btm. H. Temp. | 115.00 F |
| Hole Condition | good |
| % Porosity | 0.00 |
| Packer Size | 6.75 in |
| No. of Packers | 2 |
| Cushion Amt. | 0.00 n |
| Cushion Type | none |
| Reversed Out N | |
| Tool Chased N | |
| Tester | Darren Amerine |
| Co. Rep. | Bill Padget |
| Contr. | Duke |
| Rig # | 7 |
| Unit # | none |
| Pump T. | no |

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CONSERVATION DIVISION
 Wichita, Kansas

SEP 15 1998

RECEIVED
 STATE CORPORATION COMMISSION

GAS RECOVERY

CONFIDENTIAL

COMPANY: Samuel Gary Jr. &

DATE: 05/31/98

WELL NAME: Herd #34-13

KB Elev: 1935.00 ft TICKET #10791 DST #2

WELL LOCATION: 39-32S-19W Comanche KS

GR Elev: 1922.00 ft FORMATION: Fort Scott

INTERVAL Fr.: 4994.00 To 5012.00 T.D.: 501226.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Adj. Choke

*** GAS RATES FOR FLOW #1

| Time (min) | Orifice (in) | Pressure (Psi) | H2O (in) | Rate (cf/d) |
|------------|--------------|----------------|----------|-------------|
| 5 | 0.75 | 16 | 0 | 425000.0 |
| 6 | 0.75 | 22 | 0 | 502000.0 |

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*** GAS RATES FOR FLOW #2

| Time (min) | Orifice (in) | Pressure (Psi) | H2O (in) | Rate (cf/d) |
|------------|--------------|----------------|----------|-------------|
| 5 | 0.75 | 17 | 0 | 439000.0 |
| 10 | 0.75 | 22 | 0 | 509000.0 |
| 15 | 0.75 | 23 | 0 | 523000.0 |
| 20 | 0.75 | 23 | 0 | 523000.0 |
| 25 | 0.75 | 23 | 0 | 523000.0 |
| 30 | 0.75 | 22 | 0 | 516000.0 |
| 35 | 0.75 | 22 | 0 | 509000.0 |
| 40 | 0.75 | 22 | 0 | 502000.0 |
| 45 | 0.75 | 21 | 0 | 495000.0 |

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CONSERVATION DIVISION
Wichita, Kansas

SEP 15 1998

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*** TOOL DIAGRAM *** CONVENTIONAL

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WELL NAME: Herd #34-13
 LOCATION : 39-32s-19w Comanche KS
 TICKET No. 10791 D.S.T. No. 2 DATE 05/31/98
 TOTAL TOOL TO BOTTOM OF TOP PACKERS 30
 INTERVAL TOOL
 BOTTOM PACKERS AND ANCHOR 18
 TOTAL TOOL 48
 DRILL COLLAR ANCHOR IN INTERVAL
 D.C. ANCHOR STND.Stands Single Total
 D.P. ANCHOR STND.Stands Single Total
 TOTAL ASSEMBLY
 D.C. ABOVE TOOLS.Stands4 Single 1 Total 266
 D.P. ABOVE TOOLS.Stands75 Single 1 Total 4219
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5033
 TOTAL DEPTH 5012
 TOTAL DRILL PIPE ABOVE K.B. 21

REMARKS:

FLUID SAMPLER DATA
 ++++++

| | |
|-------------------------|----------------------|
| pit mud analysis | Sampler recovery |
| Chlorides-1000-----ppm. | Gas----.5 cu.ft-ML. |
| Res.0.5-ohms@--85--F. | oil-----ML. |
| Vis-49--Weight--9.1+ | mud-----ML. |
| Filtrate-9.8--no LCM | water-----ML. |
| Sampler analysis | other-----ML. |
| Res.-----Ohms.@----F. | pressure---85---Psi. |
| Chlorides-----PPM. | total.---4000---ML. |

| | |
|------------------------|------|
| P.O. SUB | 4961 |
| C.O. SUB Top of tool @ | 4962 |
| S.I. TOOL | 4967 |
| SAMPLER | 4970 |
| HMV | 4975 |
| JARS | 4980 |
| SAFETY JOINT | 4982 |
| PACKER | 4986 |
| PACKER | 4994 |
| DEPTH 4994 | |
| STUBB 1'stubb to | 4995 |
| ANCHOR 5'perfs to | 5000 |
| Alpine rec.@5000 | |
| | 5000 |
| | 5010 |
| | 5012 |
| T.C. DEPTH | |
| 10'ofperfs.to | 5010 |
| Ak-1 rec.@5009 | |
| BULLNOSE 2'Bullnose to | 5012 |
| T.D. | |

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STATE OF KANSAS
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 SEP 15 1998
 CONSERVATION DIVISION
 Wichita, Kansas

TEST HISTORY

TK#10791 DST#2 Herd #34-13 Sam Gary Jr.

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Flag Points
 t(Min.) P(PSIg)

| | | |
|----|-------|---------|
| R: | 0.00 | 2414.68 |
| B: | 0.00 | 96.34 |
| C: | 8.00 | 120.43 |
| D: | 90.00 | 1223.49 |
| E: | 0.00 | 94.91 |
| F: | 41.00 | 96.68 |
| G: | 92.00 | 1207.80 |
| Q: | 0.00 | 2347.70 |

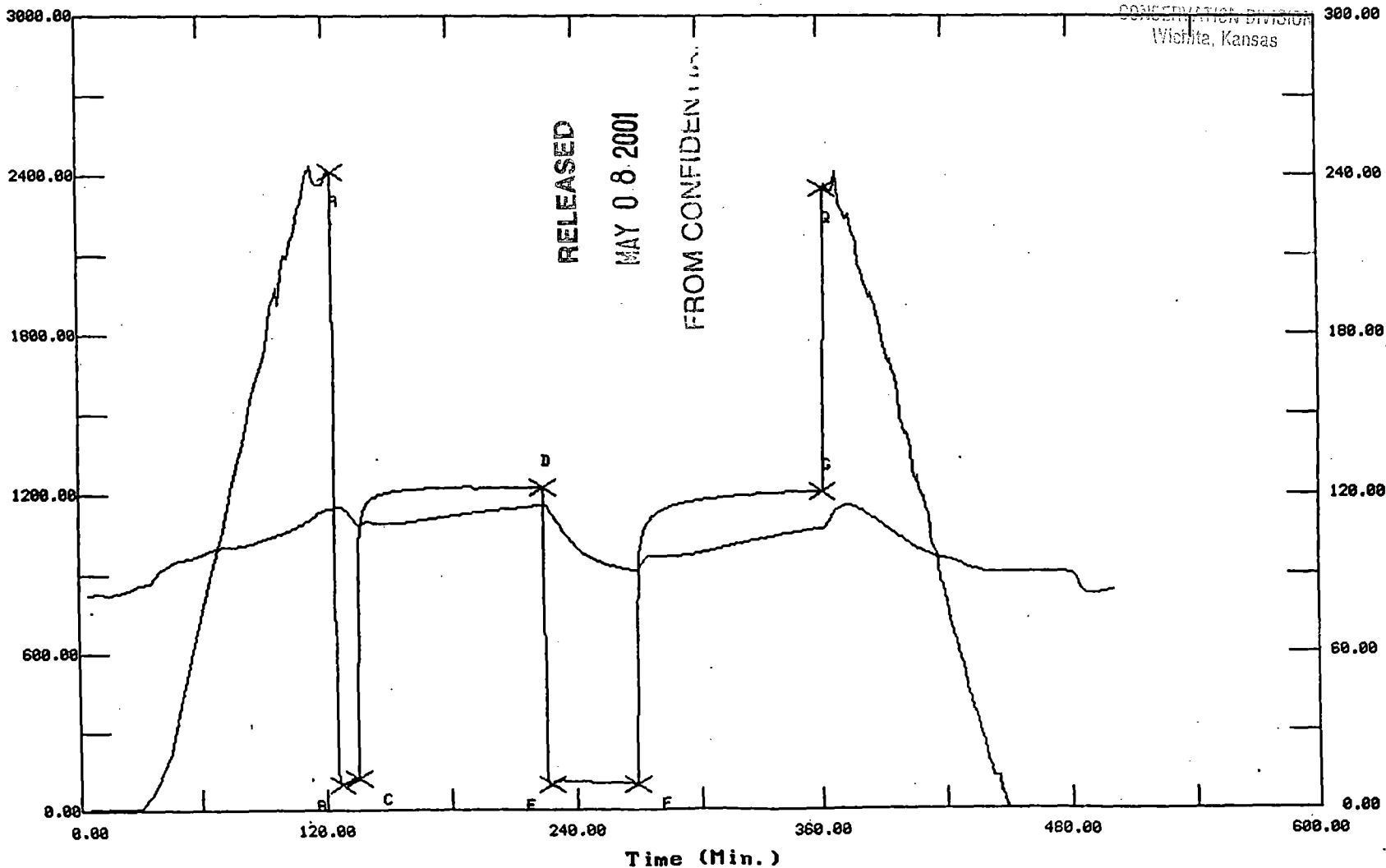
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 STATE CORPORATION COMMISSION

SEP 15 1998

CONSERVATION DIVISION
 Wichita, Kansas

CONFIDENTIAL

Pressure (PSIg)



Temperature (DEG F)

TRILOBITE TESTING L.L.C.

CONFIDENTIAL

OPERATOR : Samuel Gary Jr & Assoc.
WELL NAME: Herd #34-13
LOCATION : 39-32s-19w Comanche KS
INTERVAL : 5164.00 To 5190.00 ft

DATE 06/01/98

KB 1935.00 ft TICKET NO: 10792 DST #3
GR 1922.00 ft FORMATION: Miss.
TD 5190.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

| Mins | Field | 1 | 2 | 3 | 4 | TIME DATA----- |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 10 Rec. | 10332 | 10332 | 2350 | | | PF Fr. 1757 to 1807 hr |
| SI 90 Range(Psi) | 4025.0 | 4025.0 | 4995.0 | 0.0 | 0.0 | IS Fr. 1807 to 1937 hr |
| SF 45 Clock(hrs) | 12hr. | 12hr. | elec. | | | SF Fr. 1937 to 2037 hr |
| FS 90 Depth(ft) | 5187.0 | 0.0 | 5170.0 | 0.0 | 0.0 | FS Fr. 2037 to 2237 hr |

| | Field | 1 | 2 | 3 | 4 |
|----------------|--------|--------|--------|-----|-----|
| A. Init Hydro | 2468.0 | 2465.0 | 2475.0 | 0.0 | 0.0 |
| B. First Flow | 111.0 | 119.0 | 94.0 | 0.0 | 0.0 |
| B1. Final Flow | 130.0 | 131.0 | 130.0 | 0.0 | 0.0 |
| C. In Shut-in | 1397.0 | 1391.0 | 1401.0 | 0.0 | 0.0 |
| D. Init Flow | 122.0 | 115.0 | 93.0 | 0.0 | 0.0 |
| E. Final Flow | 162.0 | 161.0 | 168.0 | 0.0 | 0.0 |
| F. Fl Shut-in | 1407.0 | 1393.0 | 1392.0 | 0.0 | 0.0 |
| G. Final Hydro | 2468.0 | 2462.0 | 2475.0 | 0.0 | 0.0 |
| Inside/Outside | 0 | 0 | I | | |

T STARTED 1555 hr
T ON BOTM 1755 hr
T OPEN 1757 hr
T PULLED 2237 hr
T OUT 0120 hr

TOOL DATA-----

Tool Wt. 2100.00 lb
Wt Set On Packer 20000.00 lb
Wt Pulled Loose 100000.00
Initial Str Wt 77000.00 lb
Unseated Str Wt 77000.00 lb
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 266.00 ft
D.P. Length 4873.00 ft

RECOVERY

Tot Fluid 30.00 ft of 30.00 ft in DC and 0.00 ft in DP
30.00 ft of Very slight gas cut mud 2%gas 98% mud
4873.00 ft of Gas in pipe
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 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
Strong blow bottom of bucket in 10-15
secs. Gas to surface in 3 1/2 mins.
Initial Shut-in:
Bled down for 20 mins. No blow back
Final Flow:
Strong blow bottom of bucket in
10 secs. Gauge gas
Final Shut-in:
Bled down for 20 mins. no blow back

SAMPLES: Caraway Analytical, Liberal ks,
SENT TO:

RELEASED

MAY 08 2001

Test Successful: Y

FROM CONFIDENTIAL

KCC

SEP 10 1998

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CONSERVATION DIVISION
Wichita, Kansas

SEP 15 1998

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MUD DATA-----

Mud Type Chemical
Weight 9.10 lb
Vis. 44.00 S/
W.L. 8.00 in
F.C. 0.32 in
Mud Drop N

Amt. of fill 0.00 ft
Btm. H. Temp. 119.00 F
Hole Condition good
% Porosity 0.00
Packer Size 6.75 in
No. of Packers 2
Cushion Amt. 0.00 n
Cushion Type none
Reversed Out N
Tool Chased N
Tester Darren Amerine
Co. Rep. Bill Padget
Contr. Duke
Rig # 7
Unit # none
Pump T. no

GAS RECOVERY

CONFIDENTIAL

COMPANY: Samuel Gary Jr & Assoc.

DATE: 06/01/98

WELL NAME: Herd #34-13

KB Elev: 1935.00 ft TICKET #10792 DST #3

WELL LOCATION: 39-32s-19w Comanche KS

GR Elev: 1922.00 ft FORMATION: Miss.

INTERVAL Fr.: 5164.00 To 5190.00 T.D.: 5190.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Adj.Choke

*** GAS RATES FOR FLOW #1

| Time (min) | Orifice (in) | Pressure (Psi) | H2O (in) | Rate (cf/d) |
|------------|--------------|----------------|----------|-------------|
| 5 | 0.75 | 15 | 0 | 425000.0 |
| 6 | 0.75 | 21 | 0 | 495000.0 |

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*** GAS RATES FOR FLOW #2

| Time (min) | Orifice (in) | Pressure (Psi) | H2O (in) | Rate (cf/d) |
|------------|--------------|----------------|----------|-------------|
| 5 | 0.75 | 25 | 0 | 551000.0 |
| 10 | 0.75 | 38 | 0 | 732000.0 |
| 15 | 0.75 | 41 | 0 | 744000.0 |
| 20 | 0.75 | 45 | 0 | 830000.0 |
| 25 | 0.75 | 46 | 0 | 844000.0 |
| 30 | 0.75 | 50 | 0 | 900000.0 |
| 35 | 0.75 | 50 | 0 | 900000.0 |
| 40 | 0.75 | 51 | 0 | 914000.0 |
| 45 | 0.75 | 54 | 0 | 956000.0 |
| 50 | 0.75 | 55 | 0 | 970000.0 |
| 55 | 0.75 | 55 | 0 | 970000.0 |
| 60 | 0.75 | 56 | 0 | 983000.0 |

RELEASED

MAY 08 2001

FROM CONFIDENTIAL

CONSERVATION DIVISION
Wichita, Kansas

SEP 15 1998

RECEIVED
STATE CORPORATION COMMISSION

CONFIDENTIAL

WELL NAME: Herd #34-13
 LOCATION : 39-32s-19w Comanche KS
 TICKET No. 10792 D.S.T. No. 3 DATE 06/01/98
 TOTAL TOOL TO BOTTOM OF TOP PACKERS 30
 INTERVAL TOOL
 BOTTOM PACKERS AND ANCHOR 26
 TOTAL TOOL 56
 DRILL COLLAR ANCHOR IN INTERVAL
 D.C. ANCHOR STND.Stands Single Total
 D.P. ANCHOR STND.Stands Single Total
 TOTAL ASSEMBLY
 D.C. ABOVE TOOLS.Stands4 Single 1 Total 266
 D.P. ABOVE TOOLS.Stands79 Single 1 Total 4873
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5195
 TOTAL DEPTH 5190
 TOTAL DRILL PIPE ABOVE K.B. 5

REMARKS:

FLUID SAMPLER DATA
 ++++++

| | |
|-------------------------|----------------------|
| pit mud analysis | Sampler recovery |
| Clorides--9000-----ppm. | Gas---4000-----ML. |
| Res.0.6-ohms@--82--F. | oil-----ML. |
| Vis-44--Weight--9.1- | mud-----ML. |
| Filtrate-8.0--no LCM | water-----ML. |
| Sampler analysis | other-----ML. |
| Res.-----Ohms.@----F. | pressure--150---Psi. |
| Clorides-----PPM. | total.---4000---ML. |

| | |
|------------------------|------|
| P.O. SUB | 5132 |
| C.O. SUB Top of tool @ | 5133 |
| S.I. TOOL | 5138 |
| SAMPLER | 5143 |
| HMV | 5148 |
| JARS | 5153 |
| SAFETY JOINT | 5155 |
| PACKER | 5159 |
| PACKER | 5164 |
| DEPTH | |
| STUBB 1'stubb to | 5165 |
| ANCHOR 5'perfs to | 5170 |
| Alpine rec.@5170 | |
| | 5170 |
| T.C. | |
| DEPTH | |
| 15'ofperfs.to | 5185 |
| Ak-1 rec.@5187 | |
| BULLNOSE 5'Bullnose to | 5190 |
| T.D. | |

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 SEP 10 1998
 CONFIDENTIAL

RELEASED
 MAY 08 2001

FROM CONFIDENTIAL

CONSERVATION DIVISION
 Wichita, Kansas

SEP 15 1998

RECEIVED
 STATE BUREAU OF MINERALS COMMISSION

Tk#10792 DST#3 Herd #34-13 Sam Gary Jr.

TEST HISTORY

KCC

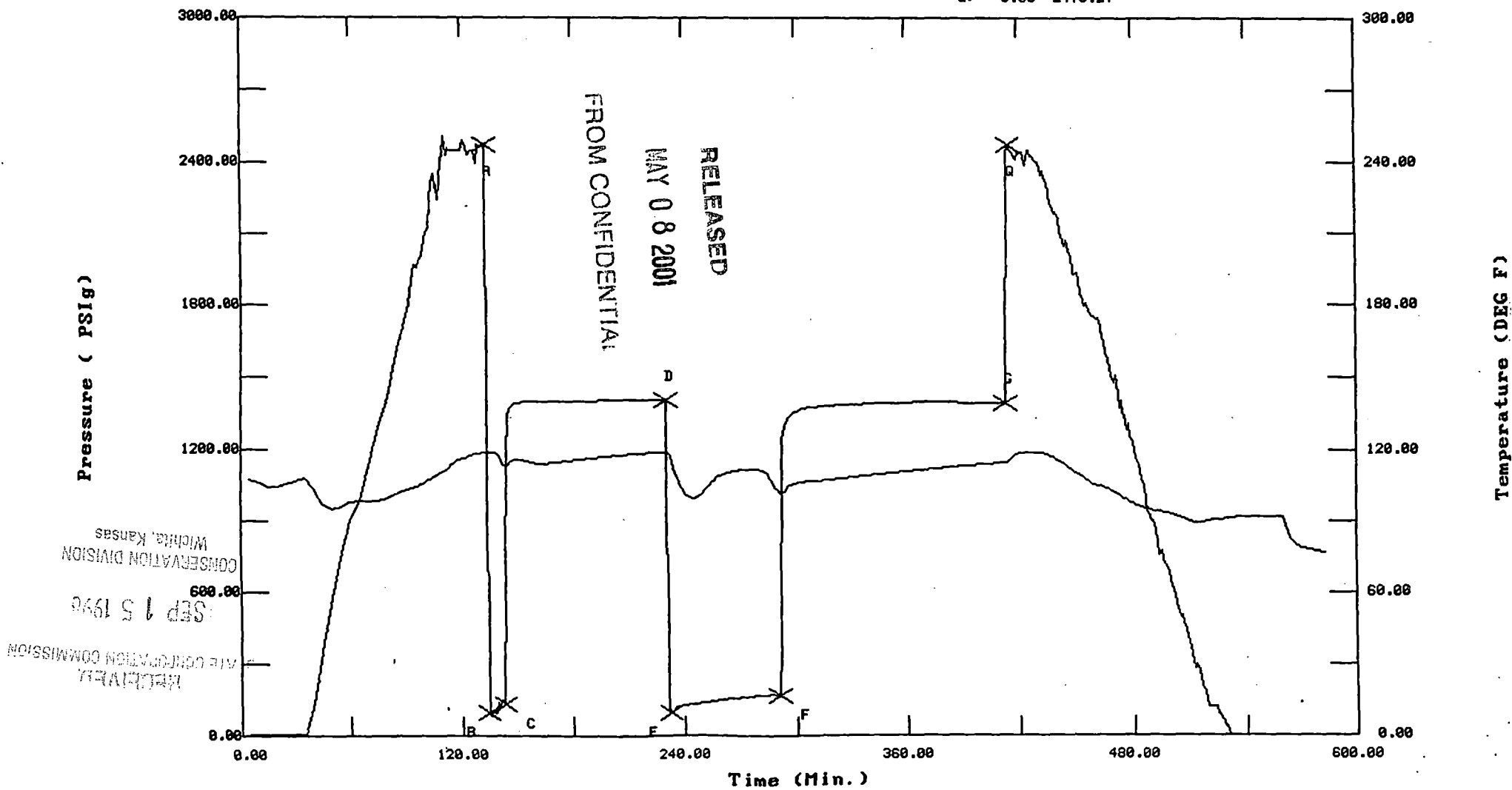
SEP 10 1998

CONFIDENTIAL

Flag Points

| | t (Min.) | P (PSig) |
|----|----------|----------|
| A: | 0.00 | 2474.69 |
| B: | 0.00 | 94.07 |
| C: | 9.00 | 130.33 |
| D: | 88.00 | 1400.79 |
| E: | 0.00 | 93.40 |
| F: | 58.00 | 167.93 |
| G: | 122.00 | 1392.40 |
| Q: | 0.00 | 2475.27 |

CONFIDENTIAL



ALLIED CEMENTING CO., INC.

ORIGINAL

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

CONFIDENTIAL

15-033-20960

SERVICE POINT:
med. lodge, ks.

| | | | | | | | |
|--------------------------------|----------------|---------------------|---|------------------------------|------------------------------|----------------------------|-----------------------------|
| DATE <u>5-21-98</u> | SEC. <u>34</u> | TWP. <u>32s</u> | RANGE <u>19W</u> | CALLED OUT <u>10:00 P.M.</u> | ON LOCATION <u>1:00 A.M.</u> | JOB START <u>9:15 A.M.</u> | JOB FINISH <u>2:00 P.M.</u> |
| LEASE <u>Head</u> | | WELL # <u>34-13</u> | LOCATION <u>Coldwater, S to Ft. 3W-</u> | | COUNTY <u>Comanche</u> | STATE <u>KS.</u> | |
| OLD OR <u>NEW</u> (Circle one) | | | <u>in-eks</u> | | | | |

CONTRACTOR Duke Drq. #7

TYPE OF JOB Surface Csq.

HOLE SIZE 12 1/4 T.D. 665

CASING SIZE 8 5/8 x 24 # DEPTH 662

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX 300 MINIMUM 100

MEAS. LINE _____ SHOE JOINT 43.29

CEMENT LEFT IN CSG. _____

PERFS. _____

OWNER SAM GARY JR + ASSOCIATES
CEMENT

AMOUNT ORDERED 2255x5 ALLW + 3% CALI + 2% Flo-seal. 1005x5 CLASS A 3% CALI + 2% Gel
2005x5 CLASS A + 3% CALI + 2% Gel

| | | | | |
|-----------------|-----------------|---|--------------|----------------|
| COMMON | <u>300</u> | @ | <u>6.35</u> | <u>1905.00</u> |
| POZMIX | | @ | | |
| GEL | <u>6</u> | @ | <u>9.50</u> | <u>57.00</u> |
| CHLORIDE | <u>18</u> | @ | <u>28.00</u> | <u>504.00</u> |
| <u>ALLW</u> | <u>225</u> | @ | <u>6.00</u> | <u>1350.00</u> |
| <u>Flo-Seal</u> | <u>56 #</u> | @ | <u>1.15</u> | <u>64.40</u> |
| | | @ | | |
| | | @ | | |
| HANDLING | <u>525</u> | @ | <u>1.05</u> | <u>551.25</u> |
| MILEAGE | <u>525 x 45</u> | @ | <u>.04</u> | <u>945.00</u> |

EQUIPMENT

PUMP TRUCK CEMENTER Harry Dreiling

343 HELPER Justin Hart

BULK TRUCK

257-251 DRIVER James Holt

BULK TRUCK

_____ DRIVER _____

KGC TOTAL \$5376.65
RELEASED

SEP 10 1990

CONFIDENTIAL

SERVICE

MAY 08 2001

REMARKS:

Pipe on Bottom - Break Circ + Pump Capacity/Csq. Cement 2255x5 ALLW + 3% CALI + 2% Flo-Seal. 1005x5 CLASS A 3% CALI + 2% Gel. Release Plug.

Displace 39 3/4 Bbls Fresh H₂O. Had no Returns

Rig up to Run 1" to 75' Cement 1005x5 CLASS A + 3% CALI + 2% Gel. no Returns 50' Fill-up

Tag 30' Cement 1005x5 CLASS A + 3% CALI + 2% Gel.

Cement Circ to Surface.

| | | |
|-------------------|---------------|-----------------------------|
| DEPTH OF JOB | <u>662'</u> | FROM CONFIDENTIAL |
| PUMP TRUCK CHARGE | <u>0-300'</u> | <u>470.00</u> |
| EXTRA FOOTAGE | <u>362'</u> | @ <u>.43</u> <u>155.66</u> |
| MILEAGE | <u>45</u> | @ <u>2.85</u> <u>128.25</u> |
| PLUG Rubber | <u>8 5/8"</u> | @ <u>90.00</u> <u>90.00</u> |
| | | @ _____ |
| | | @ _____ |

TOTAL \$843.91

CHARGE TO: SAM GARY JR + ASSOCIATES

STREET 1670 Broadway Suite 3300

CITY Denver STATE CO ZIP 80202

FLOAT EQUIPMENT

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

TOTAL \$657.00

To Allied Cementing Co., Inc.

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

SIGNATURE Kenneth McGuire KENNETH M'GUIRE

CONSERVATION DIVISION
Wichita Kansas

SEP 15 1991

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TAX _____

TOTAL CHARGE \$6877.56

DISCOUNT \$1031.63 IF PAID IN 30 DAYS

NET \$5845.93

ALLIED CEMENTING CO., INC.

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

ORIGINAL

SERVICE POINT: Medicine Lodge

15-033-20960

| | | | | | | | |
|--------------------|----------------|---------------------|------------------|--|----------------------------|--------------------------|------------------------|
| DATE <u>6-3-98</u> | SEC. <u>34</u> | TWP. <u>32s</u> | RANGE <u>19W</u> | CALLED OUT <u>1:00 pm</u> | ON LOCATION <u>4:00 pm</u> | JOB START <u>8:40 pm</u> | JOB FINISH <u>9:35</u> |
| LEASE <u>Hero</u> | | WELL # <u>34-13</u> | | LOCATION <u>Coldwater Ss, 3w, 1N, 4s</u> | | COUNTY <u>Comanche</u> | STATE <u>KS.</u> |

OLD OR (NEW) (Circle one)

CONTRACTOR Duke # 7 **CONFIDENTIAL** OWNER SAM GARY JR. + Assoc
 TYPE OF JOB Production CEMENT

| | |
|---------------------------------|-------------------------|
| HOLE SIZE <u>7 7/8</u> | T.D. <u>5500</u> |
| CASING SIZE <u>5 1/2 x 15.5</u> | DEPTH <u>5501</u> |
| TUBING SIZE | DEPTH |
| DRILL PIPE | DEPTH |
| TOOL | DEPTH |
| PRES. MAX <u>12.50</u> | MINIMUM <u>100</u> |
| MEAS. LINE | SHOE JOINT <u>21.40</u> |
| CEMENT LEFT IN CSG. | |
| PERFS. | |

AMOUNT ORDERED 25 sx 60:40:6
250 sx 50:50:2 + 10% SALT + .52 FL-10 + 5% Kol-seal
500 GAL mud clean + 13 GAL Clapro

| | |
|-------------------------------|--------|
| COMMON CLASS H 125 sx @ 7.90 | 987.50 |
| POZMIX 125 sx @ 3.25 | 438.75 |
| GEL 5 sx @ 9.50 | 47.50 |
| CHLORIDE Class A 15 sx @ 6.35 | 95.25 |
| Salt 25 sx @ 7.00 | 175.00 |
| Kol-seal 1250 lbs @ .38 | 475.00 |
| FL-62- 105 lbs @ 5.38 | 564.90 |
| Clapro 13 Gal @ 22.97 | 299.70 |
| Mud clean 500 Gal @ .75 | 375.00 |
| HANDLING 275 sx @ 1.25 | 288.75 |
| MILEAGE 275 sx x .04 x 45 | 495.00 |

EQUIPMENT

| |
|---|
| PUMP TRUCK CEMENTER <u>Carl Balding</u> |
| # <u>255-265</u> HELPER <u>Shane Winsor</u> |
| BULK TRUCK |
| # <u>252-251</u> DRIVER <u>John Kelly</u> |
| BULK TRUCK |
| # DRIVER |

RELEASED TOTAL \$ 4240.35

MAY 08 2001

REMARKS:

SERVICE

FROM CONFIDENTIAL

Pipe on bottom break circulation w/lig. pump 19 Bbl
 mud clean flush plug RA7 + mouse hole w/25 sx
 60:40:6, mix + pump 250 sx 50:50:2 + cement in
 switch valves + wash pump + lines. switch valve + release
 plug. Displace w/1332 Bbls 2% Kch water.
 (Bump plug + float held)

| | |
|-----------------------------------|----------------|
| DEPTH OF JOB <u>5501</u> | |
| PUMP TRUCK CHARGE | <u>1290.00</u> |
| EXTRA FOOTAGE @ | |
| MILEAGE <u>45</u> @ 2.85 | <u>128.25</u> |
| PLUG Rubber <u>5 1/2"</u> @ 50.00 | <u>50.00</u> |
| @ | |
| @ | |

TOTAL 1468.25

CHARGE TO: SAM GARY JR. + Associates
 STREET 1670 Broadway Suite 3300
 CITY Denver STATE CO ZIP 80203

FLOAT EQUIPMENT

| | |
|-----------------------------|--------|
| Regular Guide shoe @ 168.00 | 168.00 |
| APV Float collar @ 298.00 | 298.00 |
| 16 Centralizers @ 56.00 | 896.00 |
| 1- Stop Ring @ 20.00 | 20.00 |
| 1- Baker Lock @ 30.00 | 30.00 |

TOTAL 1412.00

RECEIVED
 STATE CLERK OFFICE
 SEP 15 1998
 CONSERVATION DIVISION
 Wichita Kansas

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 7130.60
 DISCOUNT 1068.09 IF PAID IN 30 DAYS
 NET 6062.51

SIGNATURE David E Rice DAVID E. Rice