

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

| | |
|--|---|
| Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum |
|--|---|

| CASING RECORD <input 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 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| 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 <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone | | | | |
| | | | | |

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

| | | | | | |
|---|--|---------|-------------|---------------|---------|
| Date of first Production/Injection or Resumed Production/Injection: | Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____ | | | | |
| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |

| | | |
|---|--|------------------------------------|
| DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> | PRODUCTION INTERVAL: Top Bottom |
|---|--|------------------------------------|

| Shots Per Foot | Perforation Top | Perforation Bottom | Bridge Plug Type | Bridge Plug Set At | Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i> |
|----------------|-----------------|--------------------|------------------|--------------------|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| | | | | |
|----------------|-------|---------|------------|--|
| TUBING RECORD: | Size: | Set At: | Packer At: | |
|----------------|-------|---------|------------|--|

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | Carmen Schmitt, Inc. |
| Well Name | STEIGER UNIT 1-35 |
| Doc ID | 1516941 |

All Electric Logs Run

| |
|----------------|
| |
| Sonic |
| Micro |
| Dual Induction |
| Porosity |

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | Carmen Schmitt, Inc. |
| Well Name | STEIGER UNIT 1-35 |
| Doc ID | 1516941 |

Tops

| Name | Top | Datum |
|-------------|------|-------|
| Anhydrite | 2594 | 379 |
| Tarkio | 3638 | -665 |
| Topeka | 3764 | -791 |
| Heebner Sh. | 3969 | -996 |
| Toronto | 3991 | -1018 |
| Lansing | 4003 | -1030 |
| B/KC | 4264 | -1291 |
| Marmaton | 4276 | -1303 |
| Pawnee | 4372 | -1399 |
| FT. Scott | 4413 | -1440 |
| Cherokee Sh | 4445 | -1472 |
| Mississippi | 4566 | -1593 |

COPELAND

Acid & Cement

POST OFFICE BOX 438
 HAYSVILLE, KS 67060
 (316) 524-1225
 (316) 524-1027 FAX

Invoice

BURRTON, KS ♦ GREAT BEND, KS
 (620) 463-5161 (620) 793-3366
 FAX (620) 463-2104 FAX (620) 793-3536

INVOICE NUMBER:
C60118-IN

BILL TO:
CARMEN SCHMITT, INC.
PO BOX 47
GREAT BEND, KS 67530

LEASE: STEIGER UNIT 1-35

| DATE | ORDER | SALESMAN | ORDER DATE | PURCHASE ORDER | SPECIAL INSTRUCTIONS | |
|---|-------|---------------------------|------------|-----------------------|----------------------|-----------------|
| 04/21/2020 | 60118 | | 04/20/2020 | STEIGER UNIT 1-35 | NET 30 | |
| QUANTITY | U/M | ITEM NO./DESCRIPTION | | D/C | PRICE | EXTENSION |
| 40.00 | MI | MILEAGE CEMENT PUMP TRUCK | | 22.00 | 4.00 | 124.80 |
| 1.00 | EA | PUMP CHARGE SURFACE | | 22.00 | 1,100.00 | 858.00 |
| 225.00 | SK | 60/40 POZ MIX 2% GEL | | 22.00 | 11.25 | 1,974.38 |
| 12.00 | SK | CALCIUM CHLORIDE | | 22.00 | 40.00 | 374.40 |
| 237.00 | EA | BULK CHARGE | | 22.00 | 1.25 | 231.08 |
| 417.12 | MI | BULK TRUCK - TON MILES | | 22.00 | 1.10 | 357.89 |
| <p><i>710/43</i> <i>19772.0135</i> <i>Well Rte</i> <i>Surface Cement</i></p> | | | | | | |
| REMIT TO: P.O. BOX 438 HAYSVILLE, KS 67060 | | COP | | Net Invoice: | | 3,920.55 |
| RECEIVED BY _____ | | NET 30 DAYS | | THOMCO Sales Tax: | | 294.04 |
| | | | | Invoice Total: | | 4,214.59 |

There will be a charge of 1.5% "per month" (18% annual rate) on all accounts over 30 days pas

Copeland Acid & Cement is a subsidiary of Gressel Oil Field Service

Gressel Oil Field Service reserves a security interest in the goods sold until the same are paid for in full and reserve all the rights of a secured party under the Uniform Commercial Code.



FIELD ORDER N° C 60118

BOX 438 - HAYSVILLE, KANSAS 67060
316-524-1225

DATE 20-Apr 20 20

IS AUTHORIZED BY: CARMEN SCHMITT INC. (NAME OF CUSTOMER)

Address _____ City _____ State _____

TO TREAT WELL

AS FOLLOWS Lease STEIGER UNIT Well No. 1 35 Customer Order No. _____

Sec. Twp. _____

Range _____ County THOMAS State KS

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid is to service or treat at owners risk, the hereinbefore mentioned well and is not to be held liable for any damage that may accrue in connection with said service or treatment. Copeland Acid Service has made no representation, expressed or implied, and no representations have been relied on, as to what may be the results or effect of the servicing or treating said well. The consideration of said service or treatment is payable. There will be no discount allowed subsequent to such date. 6% interest will be charged after 60 days. Total charges are subject to correction by our invoicing department in accordance with latest published price schedules.

The undersigned represents himself to be duly authorized to sign this order for well owner or operator.

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED

Well Owner or Operator _____

By _____ Agent

| CODE | QUANTITY | DESCRIPTION | UNIT COST | AMOUNT |
|---------|----------|-----------------------------|------------|------------|
| 20.0002 | 40 | Mileage P.T. | \$4.00 | \$160.00 |
| 20.0005 | 1 | Pump Charge Surface | \$1,100.00 | \$1,100.00 |
| 20.1002 | 225 | 60/40 Poz 2% Gel | \$11.25 | \$2,531.25 |
| 20.1012 | 12 | Calcium Chloride per 50 lb. | \$40.00 | \$480.00 |
| | | | | |
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| | | | | |
| | | | | |
| 20.0011 | 237 | Bulk Charge | \$1.25 | \$296.25 |
| 20.0012 | 417.12 | Bulk Truck Miles | \$1.10 | \$458.83 |
| | | Process License Fee on | Gallons | |
| | | TOTAL BILLING | | \$5,026.33 |

I certify that the above material has been accepted and used; that the above service was performed in a good and workmanlike manner under the direction, supervision and control of the owner, operator or his agent, whose signature appears below. \$3920.54

Copeland Representative GREG C.

Station GB _____ MATT S. _____
Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS

SWIFT



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

| | |
|----------|-----------|
| DATE | INVOICE # |
| 5/3/2020 | 33125 |

| |
|---|
| BILL TO |
| Carmen Schmitt, Inc. P. O. Box 47 915 Harrison Great Bend, KS 67530-0047 |

- Acidizing
- Cement
- Tool Rental

| TERMS | Well No. | Lease | County | Contractor | Well Type | Well Category | Job Purpose | Operator |
|--------|----------|--------------|--------|------------|-----------|---------------|--------------------|----------|
| Net 30 | #1-35 | Steiger Unit | Thomas | Southwind | Oil | Development | Top/Btm Longstr... | David E |

| PRICE REF. | DESCRIPTION | QTY | UM | UNIT PRICE | AMOUNT |
|------------|--|-------|-----------|------------|-----------|
| 575D | Mileage - 1 Way | 100 | Miles | 5.00 | 500.00 |
| 579D | Pump Charge - Two-Stage & Top To Bottom LongString | 1 | Job | 1,900.00 | 1,900.00 |
| 290 | D-Air | 7 | Gallon(s) | 42.00 | 294.00T |
| 221 | Liquid KCL (Clayfix) | 2 | Gallon(s) | 25.00 | 50.00 |
| 281 | Mud Flush | 500 | Gallon(s) | 1.50 | 750.00T |
| 402-5 | 5 1/2" Centralizer | 8 | Each | 75.00 | 600.00T |
| 403-5 | 5 1/2" Cement Basket | 4 | Each | 275.00 | 1,100.00T |
| 406-5 | 5 1/2" Latch Down Plug & Baffle | 1 | Each | 250.00 | 250.00T |
| 407-5 | 5 1/2" Insert Float Shoe With Auto Fill | 1 | Each | 325.00 | 325.00T |
| 330 | Swift Multi-Density Standard (MIDCON II) | 470 | Sacks | 17.00 | 7,990.00T |
| 325 | Standard Cement | 150 | Sacks | 13.50 | 2,025.00T |
| 284 | Calseal | 7 | Sack(s) | 40.00 | 280.00T |
| 283 | Salt | 800 | Lb(s) | 0.25 | 200.00T |
| 292 | Halad 322 | 100 | Lb(s) | 8.50 | 850.00T |
| 276 | Flocele | 155 | Lb(s) | 3.00 | 465.00T |
| 581D | Service Charge Cement | 620 | Sacks | 1.85 | 1,147.00 |
| 583D | Drayage | 3,134 | Ton Miles | 0.95 | 2,977.30 |
| | Subtotal | | | | 21,703.30 |
| | Sales Tax Thomas County | | | 8.25% | 1,248.14 |
| | 19772.0135 Deck 1 | | | | |
| | 710/43 22,951.44 | | | | |
| | "Cement Pdn Casing" | | | | |
| | Well File | | | | |

We Appreciate Your Business!

Total

\$22,951.44



TICKET 033125

CHARGE TO: *Carmen Schmitt*
 ADDRESS
 CITY, STATE, ZIP CODE

PAGE 1 OF 3

SERVICE LOCATIONS
 1. *Harts Co*
 2. *Ness City Ks*
 3.
 4.

WELL/PROJECT NO. *1-35*
 CONTRACTOR *Southwind*
 WELL TYPE *Oil*
 INVOICE INSTRUCTIONS

LEASE *Steiger Unit*
 COUNTY/PARISH *Thomas*
 RIG NAME/NO.
 WELL CATEGORY *development*
 JOB PURPOSE *Top to Bottom Long String*

STATE *KS*
 CITY
 DELIVERED TO *LOCATION*
 WELL PERMIT NO.
 WELL LOCATION

DATE *5-3-2020*
 ORDER NO.
 OWNER

| PRICE REFERENCE | SECONDARY REFERENCE/ PART NUMBER | ACCOUNTING | | DESCRIPTION | QTY. | | QTY. | | UNIT PRICE | AMOUNT |
|-----------------|-------------------------------------|------------|------|--------------------------------------|------------|------------|------------|-----|----------------|----------------|
| | | LOC | ACCT | | U/M | U/M | U/M | U/M | | |
| <i>575</i> | | <i>1</i> | | <i>MILEAGE Trk # 111</i> | <i>100</i> | <i>mi</i> | | | <i>5.00</i> | <i>500.00</i> |
| <i>579</i> | | <i>1</i> | | <i>Pump Charge - Top to Bottom</i> | <i>1</i> | <i>EA</i> | | | <i>1900.00</i> | <i>1900.00</i> |
| <i>290</i> | | <i>1</i> | | <i>D-Air</i> | <i>7</i> | <i>6ac</i> | | | <i>42.00</i> | <i>294.00</i> |
| <i>221</i> | | <i>1</i> | | <i>Liaison Fee</i> | <i>2</i> | <i>6ac</i> | | | <i>25.00</i> | <i>50.00</i> |
| <i>281</i> | | <i>1</i> | | <i>Mudflush</i> | <i>500</i> | <i>6ac</i> | | | <i>1.50</i> | <i>750.00</i> |
| <i>402</i> | | <i>1</i> | | <i>Centralizer</i> | <i>8</i> | <i>EA</i> | <i>5/2</i> | | <i>75.00</i> | <i>600.00</i> |
| <i>403</i> | | <i>1</i> | | <i>Cement Basket</i> | <i>4</i> | <i>EA</i> | | | <i>275.00</i> | <i>1100.00</i> |
| <i>406</i> | | <i>1</i> | | <i>CATCH DOWN Plug & Baffle</i> | <i>1</i> | <i>EA</i> | | | <i>250.00</i> | <i>250.00</i> |
| <i>407</i> | | <i>1</i> | | <i>Insert FLOAT Shoe w/AirD Fill</i> | <i>1</i> | <i>EA</i> | | | <i>325.00</i> | <i>325.00</i> |

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

X

DATE SIGNED _____ TIME SIGNED A.M. P.M.

SWIFT OPERATOR *David Edgerston* APPROVAL

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

| SURVEY | AGREE | UNDECIDED | DISAGREE |
|--|------------------------------|-----------------------------|----------|
| OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? | | | |
| WE UNDERSTOOD AND MET YOUR NEEDS? | | | |
| OUR SERVICE WAS PERFORMED WITHOUT DELAY? | | | |
| WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? | | | |
| ARE YOU SATISFIED WITH OUR SERVICE? | <input type="checkbox"/> YES | <input type="checkbox"/> NO | |
| <input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND | | | |

PAGE TOTAL *5769.00*
15934.30
21703.30

TOTAL *1248.14*
2295.44

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You!



TICKET CONTINUATION

PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET No. 33125

DATE 5-3-20 PAGE 2 OF 5

WEIGHT Steiger Unit 135

CUSTOMER Carmen Schmitt

| PRICE REFERENCE | SECONDARY REFERENCE/ PART NUMBER | ACCOUNTING | | TIME | DESCRIPTION | QTY | | U/M | | UNIT PRICE | AMOUNT |
|-----------------|----------------------------------|------------|------|------|---------------------|------|-----|-----|-----|------------|---------|
| | | LOC | ACCT | | | DF | QTY | U/M | QTY | | |
| 330 | | 2 | | | Swift Multi-Density | 470 | sk | | | 17.00 | 7990.00 |
| 325 | | 2 | | | Standard Cement | 150 | sk | | | 13.50 | 2025.00 |
| 284 | | 2 | | | Calsorec | 7 | sk | | | 40.00 | 280.00 |
| 283 | | 2 | | | SALT | 800 | lbs | | | 85 | 200.00 |
| 272 | | 2 | | | HOARD-322 | 100 | lbs | | | 8.50 | 850.00 |
| 276 | | 2 | | | Flock | 155 | lbs | | | 3.00 | 465.00 |
| 581 | | | | | Cement | 620 | sk | | | 1.85 | 1147.00 |
| 583 | | | | | | 606 | sk | | | 95 | 2977.30 |
| | | | | | SERVICE CHARGE | | | | | | |
| | | | | | MILEAGE CHARGE | | | | | | |
| | | | | | TOTAL WEIGHT | 606 | sk | | | | |
| | | | | | LOADED MILES | 100 | | | | | |
| | | | | | CUBIC FEET | 620 | sk | | | | |
| | | | | | TON MILES | 3134 | | | | | |

CONTINUATION TOTAL 15934.30

JOB LOG

SWIFT Services, Inc.

DATE
5-3-20

PAGE NO.

| CUSTOMER | | WELL NO. | | LEASE | | JOB TYPE | | TICKET NO. | |
|----------------|------|------------|--------------------|---------|---|----------------|--------|--|--|
| Carmen Schmitt | | 1-35 | | Steiger | | Top to Bottom | | 33125 | |
| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS | |
| | | | | T | C | TUBING | CASING | | |
| | | | | | | | | | On location |
| | | | | | | | | | RTD |
| | | | | | | | | | Set @ 4/94 |
| | | | | | | | | | Cetracizers - 4, 6, 12, 14, 16, 18, 20, 45 |
| | | | | | | | | | Baskets - 2, 8, 10, 73 |
| | 4/5 | | | | | | | | Start Running Csg |
| | 700 | | | | | | | | Break circ on Bottom |
| | 750 | 2.5 | 8 | | | 0 | | | plug rat hole - 30 sks |
| | | 2.5 | 4 | | | 0 | | | plug mouse hole - 20 sks |
| | 800 | 6 | 12 | | | 300 | | | pump mudflush - 500 gal |
| | | 6 | 20 | | | 300 | | | pump KCL spacer |
| | | 6 | 232 | | | 500 | | | pump SMD - 420 sks @ 11.2ppg |
| | | 5 | 36 | | | 700 | | | pump EA-2 - 150 sks @ 15.5ppg |
| | | | | | | | | | Drop plug / wash p+L |
| | 910 | 6 | 0 | | | 300 | | | START Disp |
| | | 6 | 85 | | | 800 | | | circ cmt - 50 sks top pit |
| | 930 | 5 | 109 | | | 1300/1800 | | | land plug - lift psi - 1300 # |
| | | | | | | | | | land psi - 1800 # |
| | | | | | | | | | Release psi - Dry |
| | | | | | | | | | Job Complete |
| | | | | | | | | | Thanks |
| | | | | | | | | | Davis, Zach, Kirby & Gideon |



Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Steiger Unit #1-35 - Carmen Schmitt, Inc.
API: 15-193-21076-00-00
Location: SW-NW-NE-NE, Section 35-08S-31W
License Number: KCC #6569
Spud Date: April 20, 2020
Surface Coordinates: 600' FNL & 1250' FEL,
os Sectuin
Bottom Hole Vertical Wellbore
Coordinates:
Ground Elevation (ft): 2963 Ft. K.B. Elevation (ft): 2973 Ft.
Logged Interval (ft): 3600 Ft. To: 4665 Ft. Total Depth (ft): RTD 4665 Ft. LTD 4666 Ft.
Formation: Mississippian at Total Depth
Type of Drilling Fluid: Chemical
Region: Thomas Co., Kansas
Drilling Completed: May 02, 2020
Results: Prod. Casing Set
Field: Wildcat

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

Operator

Company: Carmen Schmitt, Inc.
Address: PO Box 47
Great Bend, Ks 67530 + 0047

Geologist

Name: M. Bradford Rine
Company: Consulting Geologist, Kansas Lic. #204, Wyo #189, AAPG Cert. #2647
Address: 100 South Main, Suite #320A
Wichita, Kansas 67202

Remarks

Based on sample observations, drill stem test results, and electric log evaluation, it was the decision of the Operator, to set production casing on the "Steiger Unit #1-35", on May 02, 2020.

Respectfully,
M. Bradford Rine, geologist

Drilling Information

Rig: Southwind Drlg, Rig #8
Pump: Emsco D-375 6x14
Drawworks: RMI 550
Collars: 463 ft, 2-1/4 x 6-1/4
Drillpipe: 4-1/2" 16.6# XH
Toolpusher: Frank Rome

Mud: Mudco (Reid Atkins)
Gas Detector: None
Drill Stem Tests: Trilobite (Royal Fisher, Bannan Lonsdale)
Logs: Pioneer (Tim Martin)
Water: Farm Pond NW of Location (Midwest Water Line)
Company Representatives:
Office: Carmen Schmitt
Field: Curtis Hitchmann

Daily Drilling Status

| Date: | Operations/Depth/Comments |
|--------------|--|
| 04-20-20 | MIRT, RU, Spud @ 0' |
| 04-21-20 | Drilling Plug @ 265' |
| 04-22-20 | Drilling @ 2473' |
| 04-23-20 | Bit Trip @ 3491' |
| 04-24-20 | Drilling @ 3734' |
| 04-25-20 | Trip in Hole with DST #3 @ 3840' |
| 04-26-20 | Circulate to Condition Hole after DST4 @ 3940' |
| 04-27-20 | Tripping Out of Hole with DST #6 @ 4025' |
| 04-28-20 | Tripping Out of Hole for DST #8 @ 4063' |
| 04-29-20 | Tripping in Hole after DST #9 @ 4082' |
| 04-30-20 | Tripping Out of Hole with DST #11 @ 4160' |
| 05-01-20 | Circulating for Samples @ 4240' |
| 05-02-20 | Drilling @ 4605' |
| 05-03-20 | Run and Cement Production Casing @ 4665' |

| | Results: Oil | | | (Well A) | D & A | (Well B) | D & A | | |
|-----------------|----------------------|-------|-------|----------------------|-------|----------------------|-------|---------------|--------|
| | Carmen Schmitt, Inc. | | | Murfin Drlg Co, Inc. | | Marexco | | | |
| | Steiger Unit #1-35 | | | Steiger #1-35 | | Swart #1-2 | | | |
| | 600' FNL & 1250' FEL | | | 330' FWL & 1650' FNL | | 1980' FSL & 660' FEL | | | |
| | Sec. 35-08S-31W | | | Sec. 35-08S-31W | | Sec. 02-09S-31W | | | |
| | KB 2973 | | | KB 2985 | | KB 2957 | | Well A | Well B |
| Formations | Sample | E-Log | Datum | E-Log | Datum | E-Log | Datum | Comparison(s) | |
| Anhydrite | 2592 | 2594 | 379 | 2610 | 375 | 2567 | 390 | 4 | -11 |
| B/Anhydrite | 2626 | 2626 | 347 | 2641 | 344 | 2598 | 359 | 3 | -12 |
| Tarkio | 3638 | 3638 | -665 | 3660 | -675 | NA | | 10 | |
| Topeka | 3762 | 3764 | -791 | 3786 | -801 | 3754 | -797 | 10 | 6 |
| Oread | 3923 | 3927 | -954 | 3950 | -965 | 3921 | -964 | 11 | 10 |
| Heebner Sh | 3968 | 3969 | -996 | 3989 | -1004 | 3964 | -1007 | 8 | 11 |
| Toronto | 3990 | 3991 | -1018 | 4014 | -1029 | 3987 | -1030 | 11 | 12 |
| Lansing | 4004 | 4003 | -1030 | 4030 | -1045 | 4003 | -1046 | 15 | 16 |
| Muncie Creek Sh | 4125 | 4125 | -1152 | 4150 | -1165 | 4124 | -1167 | 13 | 15 |
| Stark Sh. | 4210 | 4210 | -1237 | 4235 | -1250 | 4211 | -1254 | 13 | 17 |
| B/Kansas City | 4265 | 4264 | -1291 | 4294 | -1309 | 4268 | -1311 | 18 | 20 |
| Marmaton | 4276 | 4276 | -1303 | 4308 | -1323 | 4283 | -1326 | 20 | 23 |
| Pawnee | 4373 | 4372 | -1399 | 4410 | -1425 | 4394 | -1437 | 26 | 38 |
| Ft. Scott | 4411 | 4413 | -1440 | 4445 | -1460 | 4431 | -1474 | 20 | 34 |
| Cherokee Sh | 4444 | 4445 | -1472 | 4475 | -1490 | 4457 | -1500 | 18 | 28 |
| Cherokee Sd | NP | NP | | NC | | NC | | | |
| Mississippi | 4566 | 4566 | -1593 | 4602 | -1617 | 4600 | -1643 | 24 | 50 |
| Total Depth | 4665 | 4666 | -1693 | 4662 | -1677 | 4650 | -1693 | -16 | 0 |

Casing Record, Bit Record, Deviation Surveys

CASING:

CONDUCTOR: None

SURFACE: Ran 6 jts 8-5/8" 23# new, set at 253 ft. (Copeland) Cement with 225 sx 60//40 POZ, 3% CCV, 2% gel. Plug down at 9:00 PM, April 20, 2020. Cement did circulate.

PRODUCTION:

Ran production casing as follows: Ran 5-1/2" 14# new casing. Set @ 4494.35 ft. (Swift) Flush with 500 gal mud flush followed by 20 bbls KCL flush. Cement with 420 sx SMD followed by 150 sx EA2. Cement circulated to surface. Landed plug with 1500#, plug held. Circulated approximately 50 sx to pit.

BITS:

| No. | Size | Make | Model | Depth In | Depth Out | Hours |
|-----|--------|-------|-----------|----------|-----------|-------|
| 1 | 12-1/4 | -- | RR | 0 | 265 | 02.50 |
| 2 | 7-7/8 | Logic | 516 (PDC) | 265 | 3491 | 32.50 |
| 3 | 7-7/8 | JZ | RX-23 | 3491 | 4665 | 48.75 |

DEVIATION SURVEYS:

| Deviation: | Depth: | Deviation: | Depth: |
|------------|--------|------------|--------|
| 0.75* | 265' | 0.50* | 3940' |
| 1.00* | 3491' | 0.75* | 4082' |
| 1.25* | 3690' | 1.00* | 4665' |

PIPE STRAPS:

| Difference: | Depth: |
|-------------|--------|
| 3.16' long | 3491' |

DISPLACE & MUDUP:

Begin: 3427'
Finish: 3435'

DST #1: 3641-3690 (Tarkio)

Times: 15-30-10-out

Initial Open: Wk Blow, built to 1-3/4" i.b.

Final Open: No Blow

Rec: 31' mud

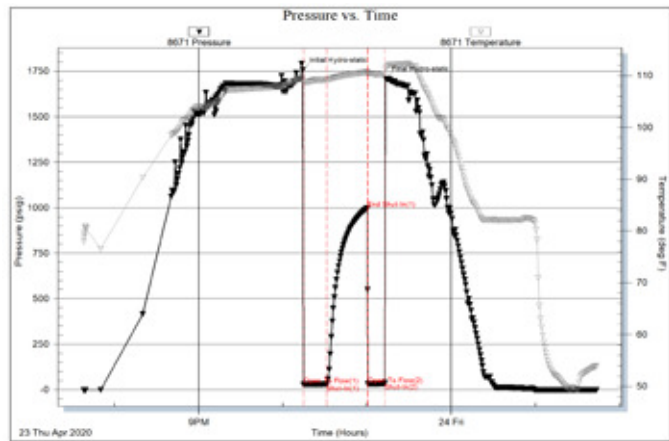
IHP: 1756 FHP: 1706

IFP: 29-31 FFP: 32-38

ISIP: 998 FSIP: NA

BHT: 111°F

(Slid tool 6' to bottom)



DST #2: 3720-3777 (L Howard, Topeka A)

Times: 15-30-45-60

Initial Open: Wk Blow, built to 3" i.b.

Final Open: Wk Blow, built to 2-1/4" i.b.

Rec: 92' oil specked mud

IHP: 1781 FHP: 1775

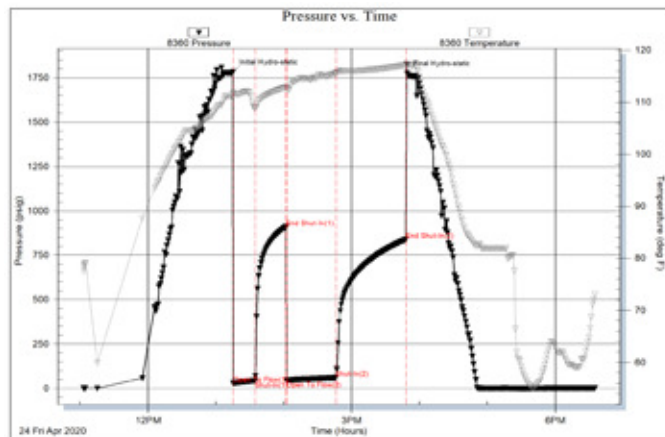
IFP: 29-43 FFP: 45-60

ISIP: 910 FSIP: 837

BHT: 117°F

***(Hit bridge at 2971' on trip in with tool.**

Slid tool 6 ft.)



DST #3: 3773-3840 (Topeka)

Times: 15-30-15-30

Initial Open: Stg Blow, b.o.b. 4 min.

No Return Blow

Final Open: Stg Blow, b.o.b. 5 min.

No Return Blow

Rec: 940' Total Fluid

410' MCW: 90%w 10%m

235' MCW: 70%w 30%m

225' MCW: 55%w 45%m

10' WCM: 20%w 80%m

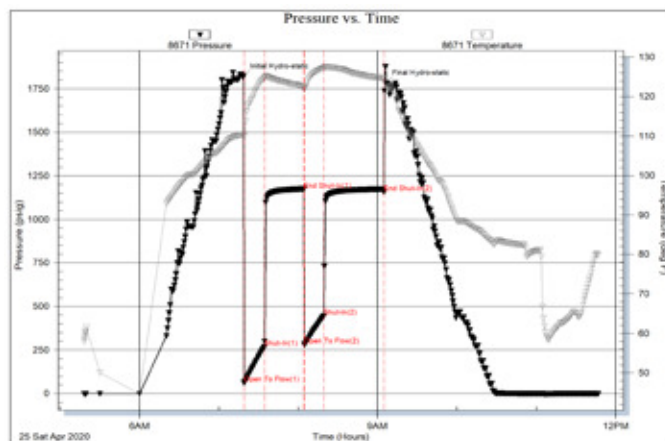
(chl/wtr 28000 ppm, chl mud 2400 ppm)

IHP: 1821 FHP: 1782

IFP: 61-268 FFP: 281-445

ISIP: 1172 FSIP: 1156

BHT: 125°F



DST #4: 3860-3940 (Lwr Topeka, Oread)

Times: 15-30-45-60

Initial Open: Stg Blow, b.o.b. 10 min,

No Return Blow

Final Open: Stg Blow, b.o.b. 10 min,

No Return Blow

Rec: 771' Total Fluid

386' OSMCW: 80%w 20%m with oil spots

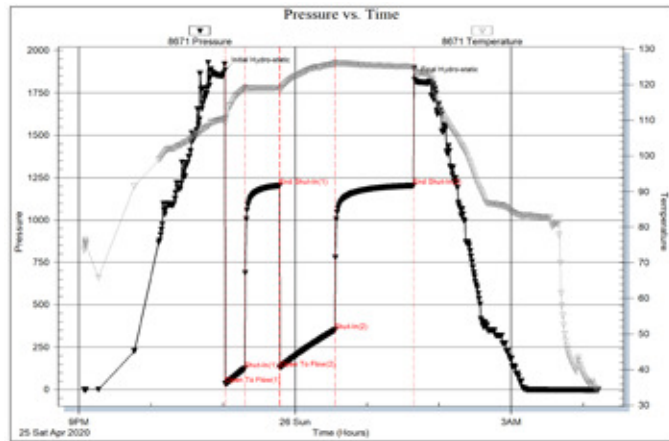
385' OSMCW: 60%w 40%m with oil spots

IHP: 1883 FHP: 1827

IFP: 35-123 FFP: 129-350

ISIP: 1204 FSIP: 1204

BHT: 125°F



DST #5: 3954-3999 (Toronto)

Times: 15-30-60-90

Initial Open: Wk Blow, built to 1-3/4" i.b.,

No Return Blow

Final Open: Wk Blow, built to 5-1/4" i.b.,

No Return Blow

Rec: 75' MCW: 80%w 20%m

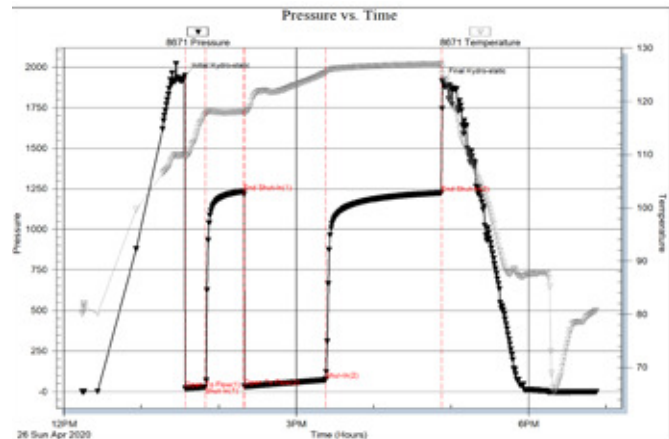
(chl/wtr 55000 ppm)

IHP: 1948 FHP: 1915

IFP: 20-29 FFP: 33-77

ISIP: 1235 FSIP: 1225

BHT: 127°F



DST #6: 3997-4025 (Lansing A)

Times: 15-30-60-90

Initial Open: Fr Blow, built to 6-1/2" i.b.,

No Return Blow

Final Open: Stg Blow, b.o.b. in 40 min.,

No Return Blow

Rec: 223' Total Fluid, 95' gas in pipe

10' Oil

213' MCW/oil scum: 85%w 15%m

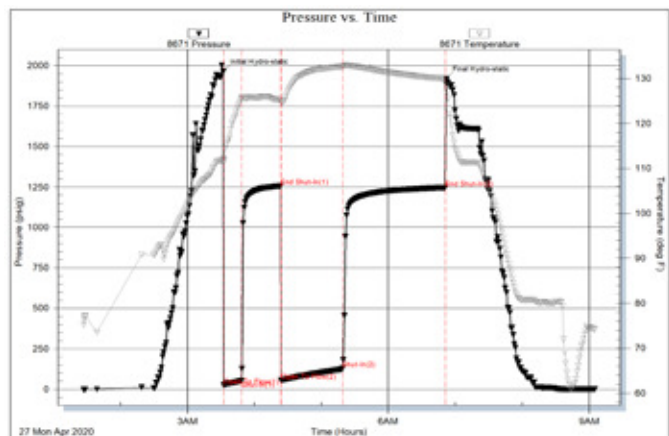
(chl/wtr 36900 ppm)

IHP: 1963 FHP: 1918

IFP: 25-53 FFP: 56-129

ISIP: 1257 FSIP: 1247

BHT: 130°F



DST #7: 4019-4050 (Lansing C)

Times: 15-30-30-60

Initial Open: Stg Blow, b.o.b. 1 min.,

Return Blow b.o.b. 5 min.

Final Open: Stg Blow, b.o.b. 1 min, gts 12 min,

Return Blow b.o.b. 7 min, then died back to 8"

Rec: 2944' GCO: 30%g 70%o. (36* API)

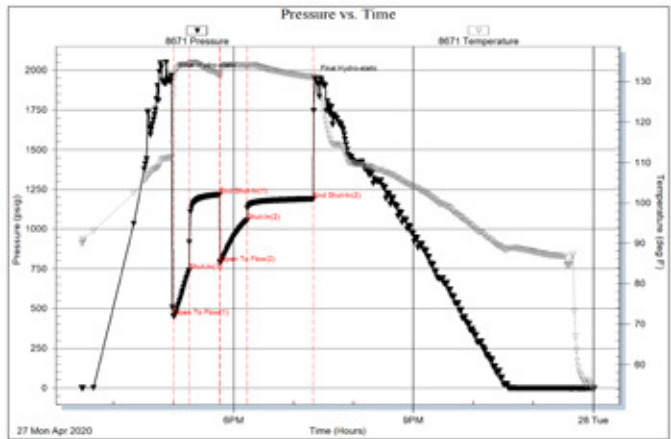
With 1008' gas in pipe

IHP: 1966 FHP: 1949

IFP: 451-739 FFP: 789-1054

ISIP: 1217 FSIP: 1191

BHT: 131°F



DST #8: 4050-4063 (Lansing D)

Times: 15-30-45-60

Initial Open: Wk Surf Blow

Final Open: Wk Blow, built to 1-3/4",
died back to 1"

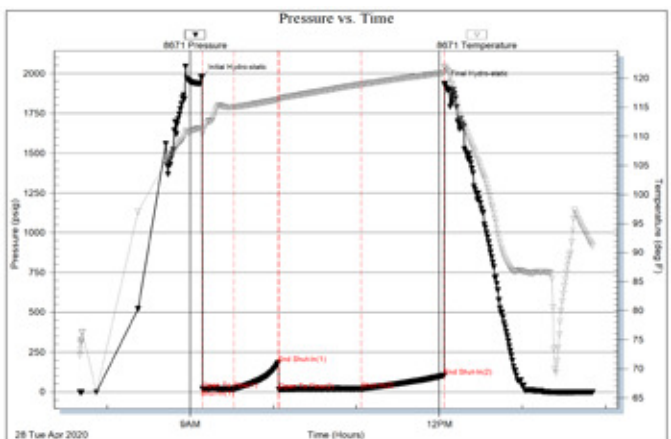
Rec: 31' OCM: 30%o 70%m and 31' gip

IHP: 1978 FHP: 1935

IFP: 19-19 FFP: 13-19

ISIP: 182 FSIP: 103

BHT: 121°F



DST #9: 4060-4082 (Lansing E)

Times: 15-30-30-30

Initial Open: Wk Blow, built to 1",
died back to 3/4"

Final Open: Built to Wk Surf Blow

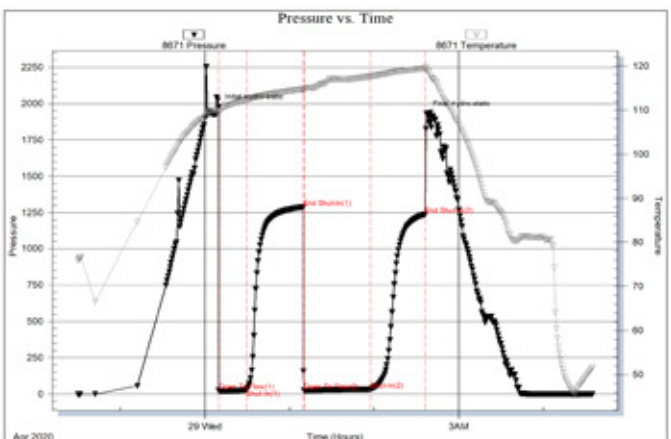
Rec: 30' SOCM: 10%o 90%m

IHP: 1977 FHP: 1930

IFP: 24-31 FFP: 25-32

ISIP: 1288 FSIP: 1238

BHT: 119°F



DST #10: 4082-4092 (Lansing F)

Times: 15-30-10-out

Initial Open: Wk Surf Blow

Final Open: Wk Intermittent Surf Blow

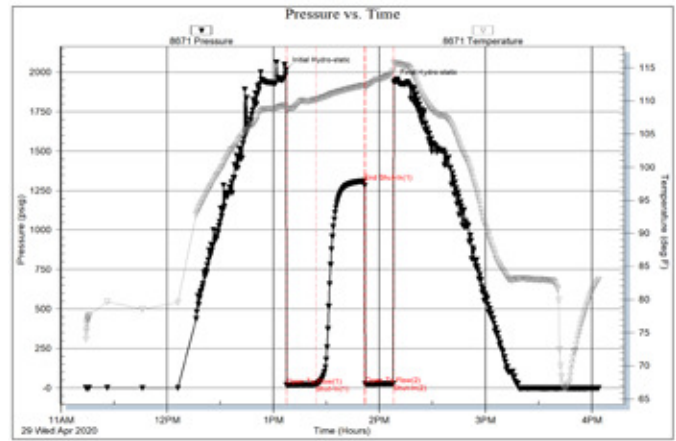
Rec: 15' OSM

IHP: 2015 FHP: 1935

IFP: 18-22 FFP: 23-26

ISIP: 1311 FSIP: NA

BHT: 115°F



DST #11: 4118-4160 (LKC H)

Times: 15-30-15-45

**Initial Open: Stg Blow, b.o.b. 1 min.,
Return Blow b.o.b. 9 min.**

**Final Open: Stg Blow, b.o.b. 2 min.,
Return Blow b.o.b. 10 min.**

Rec: 665' Total Fluid, 2925' gas in pipe

190' GOCM: 30%g 30%o 40%

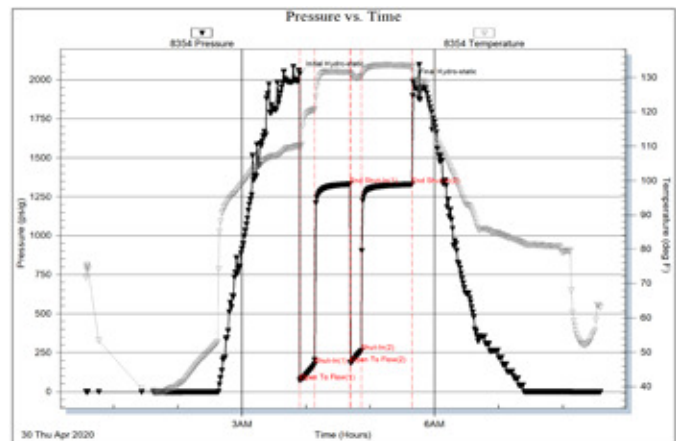
475' GCO: 50%g 50%o (Oil Gravity 39* API)

IHP: 2036 FHP: 1987

IFP: 69-173 FFP: 182-260

ISIP: 1330 FSIP: 1329

BHT: 133°F



DST #12: 4178-4210 (LKC J)

Times: 15-30-10-out

Initial Open: V Wk Blow, built to 1/4" i.b.

Final Open: No Blow

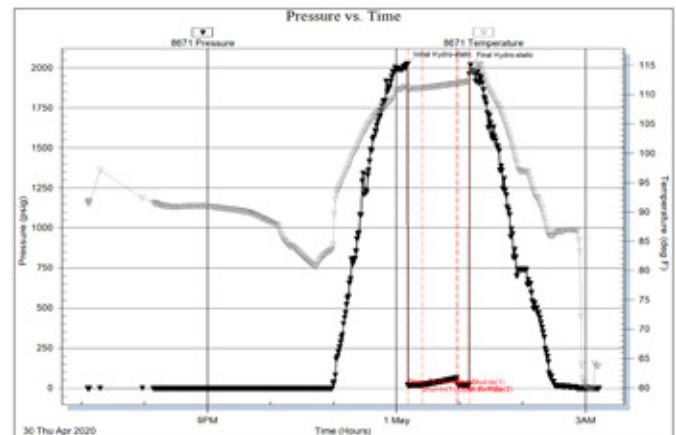
Rec: 10' OSM

IHP: 2020 FHP: 2015

IFP: 18-20 FFP: 21-21

ISIP: 62 FSIP: NA

BHT: 112°F



Rock Types

| | | | | |
|----------------|-------------|-------|--------|------------|
| Cgl/gran wash | Bent | Dol | Salt | Till |
| Dol ls/lmy dol | Brec | Gyp | Shale | Siltysh |
| New symbol 1 | Cht | Igne | Shcol | Shlysiltst |
| Dol ls/lmy dol | Clyst | Lmst | Shgy | Sandyls |
| New symbol 2 | Blk sh/coal | Meta | Siltst | |
| Anhy | Congl | Mrlst | Ss | |

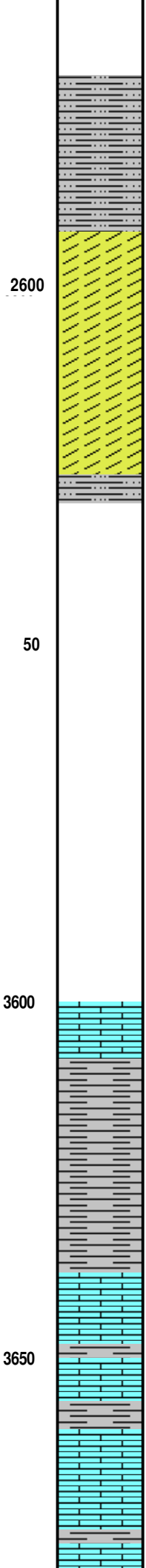
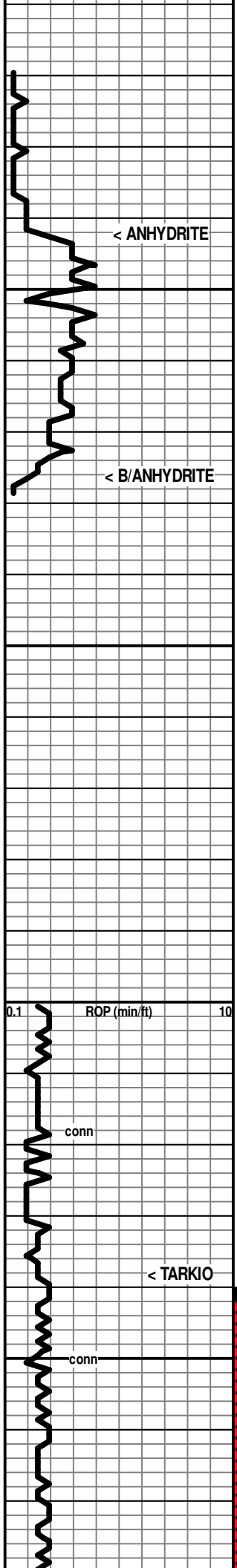
Accessories

| | | | | |
|----------------|---------|---------------|-----------------|----------------|
| MINERAL | Gyp | FOSSIL | Ostra | Siltstrg |
| Anhy | Hvymin | Algae | Pelec | Ssstrg |
| Arggrn | Kaol | Amph | Pellet | TEXTURE |
| Arg | Marl | Belm | Pisolite | Boundst |
| Bent | Minxl | Bioclst | Plant | Chalky |
| Bit | Nodule | Brach | Strom | Cryxln |
| Brecfrag | Phos | Bryozoa | STRINGER | Earthy |
| Calc | Pyr | Cephal | Anhy | Finexln |
| Carb | Salt | Coral | Shale | Grainst |
| Chtdk | Sandy | Crin | Bent | Lithogr |
| Chtlt | Silt | Echin | Coal | Microxln |
| Dol | Sil | Fish | Dol | Mudst |
| Feldspar | Sulphur | Foram | Gyp | Packst |
| Ferrpel | Tuff | Fossil | Ls | Wackest |
| Ferr | | Gastro | Mrst | |
| Glau | | Oolite | | |

Other Symbols

| | | | |
|-----------------|-----------------------|------|-----------------|
| OIL SHOW | Even | Dead | INTERVAL |
| Oil & gas show | Spotted | Gas | Core |
| Gas show | Trace or questionable | | Dst |

| ROP (min/ft) | | MD | Lithology | Geological Descriptions | Remarks |
|--------------|--------------|------|-----------|-------------------------|---------|
| ROP (min/ft) | ROP (min/ft) | | | | |
| 0.1 | 10 | 2500 | | | |
| | | 50 | | | |



← 2592 (+381)

Anhydrite Interval: based on drill time only!

← 2626 (+347)

2600

50

3600

3650

Displace & Mudup:
Begin: 3427'
Finish: 3435'

Bit Trip @ 3491'!

Pipe Strap @ 3491':
3.61 ft long!

* (Begin Wet & Dry Samples @ 3640 ft!)

75% Sh gy-grmish gy-grn, subsilty to silty to mic text; 25% Ls cr-gy, fn xln, dns

70% Sh gy-grmish gy-grn, subsilty to silty to mic text; 30% Ls wh-cr-gy, fn xln, dns to pr xl por, foss in pt

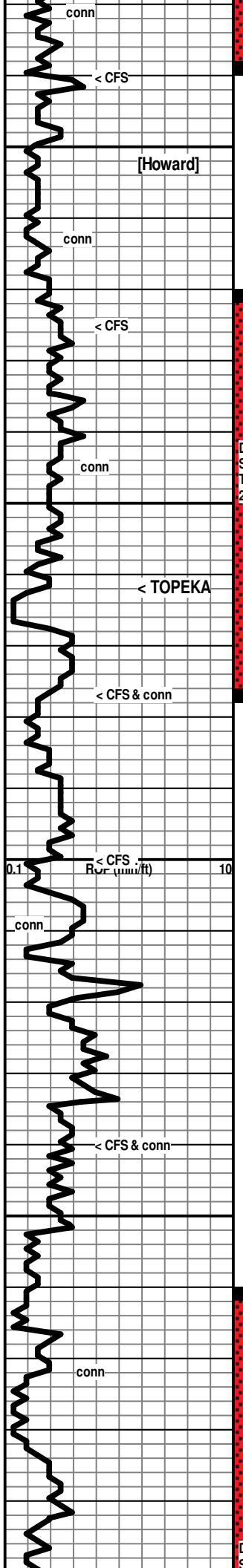
← 3638 (-665)

60% Ls wh-cr-gy, fn xln, pr xln por, foss (much weath to gy); 40% Sh gy-dk gy-grmish

3680' & 3690' Spl: abund Ls wh, fn xln, pr xln por with mod amt of inter foss pp pores, scatt sm foss vugs, abund foss, ool in pt (fn, cem to scatt interool pores)

[3680', 3690', & 3690' CFS: V Fnt Odor, Odor, Scatt v dull flour, abund spotty dk stn with: mix of Sli-Fr-Gd shows of Dk deadish oil-NVL oil, with mostly sli to some Fr shows of brn-dk brn FO. spotty-patchy dk stn

DST #1: 3641-3690 (Tarkio)
Times: 15-30-10-out
Initial Open: Wk Blow, built to 1-3/4" i.b.
Final Open: No Blow
Rec: 31' mud
IHP: 1756 FHP: 1706
IFP: 29-31 FFP: 32-38
ISIP: 998 FSIP: NA
BHT: 111°F
(Slid tool 6' to bottom)



in dry spls
 Ls as above with addition of scatt oom pcs
 [V Fnt Odor, no flour, scatt brn stn with sli shows of DO-NVL oil-dk FO]
 80% Sh red-gy-gm, silty in pt; 20% Ls wh, fn xln, pr xln por to dns, foss
 [No Odor, No flour, tr of scatt lt stn, NSFO]

98% Ls wh-cr-pl gy, fn xln, pr-fr xln por in pt, chalky in pt, scatt sm vugs & foss molds, foss (washes sli white)

95% Ls wh-cr-pl gy, fn xln, pr xln por to dns, chalky in pt, foss

80% Ls wh-cr-gy, fn xln, pr xln por to dns with scatt sm vugs, some chalky and soft, foss; 20% Sh gy-gmish gy

80% Ls wh-cr-gy, fn xln, dns to pr xln por to dns with scatt sm vugs, some chalky and soft, foss; 20% Sh gy-gmish gy

[No Odor, No flour, mod % of ls with spotty brn stn and sli shows of dead-NVL oil and tr shows of brn FO]

← 3762 (-789)
 Ls wh-cr, fn xln, pr vis xln por with scatt pp pores & sm vugs, foss, ool (md sz) with abund interool pores, becomes dns with depth
 Show Descr. →

Ls wh, fn xln, pr xln por, scatt pp pores & sm vugs, foss
 [V Fnt Odor, No flour, low % pcs with spotty dk brn stn, mostly hvy thick DO, some dk hvy NVL oil]

Ls wh-cr, fn xln, dns to pr xln por, scatt pp pores & sm vugs, foss in pt, Rr scatt pl gm glauc stn
 [No Odor, No flour, low % pcs with black spotty stn of thick asphaltic dead oil, and tr of thick hvy NVL oil on crush]
 Ls wh-cr, fn xln, dns to pr xln por, foss to abund foss, scatt v sm vugs, 10% Shales gy-dk gy-gmish

60% Ls cr-gy, fn xln, pr xln por, foss to abund foss; 20% Siltstone, wh-gy; 20% Sh gy-dk gy-gmish-blk

Ls cr-cr, fn xln, pr xln por, dns in pt where not ool, scatt interfoss & interool pores, foss, ool
 [3840' spl: V Fnt Odor, Rr scatt dull fluor specks, Abund pcs with spotty-patchy dk stn, abund sli shows of NVL oil & dk brn FO, some pcs with Fr shows dk brn FO; 3840' 20-min spl: 98% barren]
 Ls in circ spls mostly dns, some subchalky, some pr xln por, foss in pt

Ls wh-cr, fn xln, dns to pr xln por in pt, chalky in pt, scatt sm vugs, foss in pt
 [No Odor, No flour, scatt dk spots of stn in sm vugs, thick hvy asphaltic, deadish, NVL]

Ls wh-cr-tan, fn xln dol text in pt, chalky in pt, pr-fr xln por in pt

Sh black to dk gy
 Ls wh-cr, fn xln dns in pt, pr xln por in pt, scatt patches of pp pores, foss to abund foss
 [V Fnt Odor, No flour, scatt spotty to patch brn to dk stn, tr to sli shows of dead oil & NVL oil on crush]
 Abund siltstone wh-gy, vfn gm, some shale gmish to gy
 Ls wh-cr-tan, fn xln, dns in pt, pr xln por in pt, foss
 [No odor, No flour, scatt speckled dk stn, Tr of NVL & dead oil]

Sh gy-gm-black
 3910' spl: Ls wh-cr, fn xln, dns -pr xln por with scatt sm vugs and interool/interfoss pores

Mud Check, TIH after DST1 @ 3690':

| Vis | Wt | WL | LCM | PV | YP |
|------|-----|------|--------|----|----|
| 50 | 8.7 | 6.8 | 1 | 16 | 14 |
| Chl | Hd | pH | Solids | | |
| 2400 | 20 | 11.0 | 2.4 | | |

7:00 AM, April 24, 2020

DST #2: 3720-3777 (L Howard, Topeka A)
 Times: 15-30-45-60
 Initial Open: Wk Blow, built to 3" i.b.
 Final Open: Wk Blow, built to 2-1/4" i.b.
 Rec: 92' oil specked mud
 IHP: 1781 FHP: 1775
 IFP: 29-43 FFP: 45-60
 ISIP: 910 FSIP: 837
 BHT: 117°F
 *(Hit bridge at 2971' on trip in with tool. Slid tool 6 ft.)

[3752-3757: Mild Odor, Scatt dull fluor, Abund spotty-patchy brn-dk brn-blk stn, some blk dead Res, mod amt of sli-fr shows of brn-dk brn NVL oil to FO, few pcs with fr-gd shows of NVL oil & gassy FO]

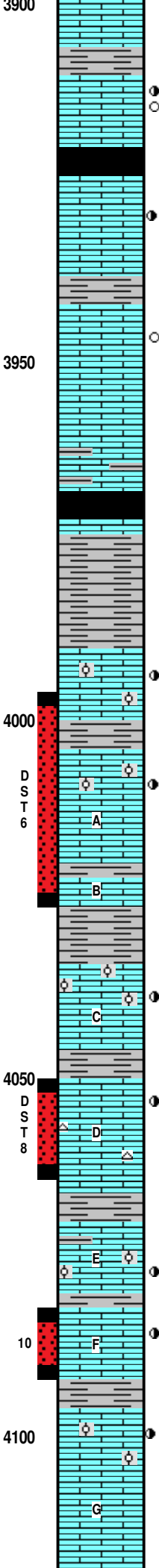
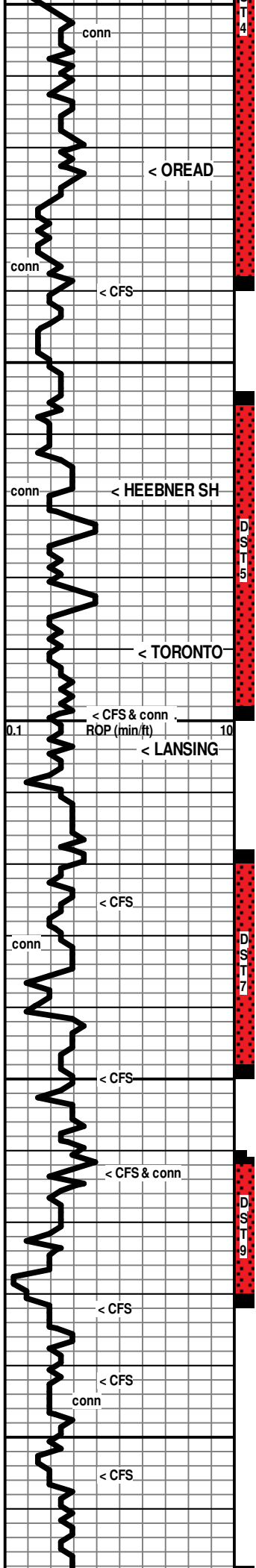
DST #3: 3773-3840 (Topeka)
 Times: 15-30-15-30
 Initial Open: Stg Blow, b.o.b. 4 min.
 No Return Blow
 Final Open: Stg Blow, b.o.b. 5 min.
 No Return Blow
 Rec: 940' Total Fluid
 410' MCW: 90%w 10%m
 235' MCW: 70%w 30%m
 225' MCW: 55%w 45%m
 10' WCM: 20%w 80%m
 (chl/wtr 28000 ppm, chl mud 2400 ppm)
 IHP: 1821 FHP: 1782
 IFP: 61-268 FFP: 281-445
 ISIP: 1172 FSIP: 1156
 BHT: 125°F

7:00 AM, April 25, 2020

Mud Check, CTCH @ 3840' after DST3:

| Vis | Wt | WL | LCM | PV | YP |
|------|-----|------|--------|----|----|
| 56 | 9.1 | 8.8 | 1 | 17 | 15 |
| Chl | Hd | pH | Solids | | |
| 3500 | 40 | 10.5 | 5.8 | | |

DST #4: 3860-3940 (Lwr Topeka, Oread)
 Times: 15-30-45-60
 Initial Open: Stg Blow, b.o.b. 10 min,
 No Return Blow
 Final Open: Stg Blow, b.o.b. 10 min,
 No Return Blow
 Rec: 771' Total Fluid
 386' OSMCW: 80%w 20%m with oil spots
 385' OSMCW: 60%w 40%m with oil spots
 (chl/wtr 38000 ppm)
 IHP: 1883 FHP: 1827
 IFP: 35-123 FFP: 129-350



[No odor, no fluor, scatt blk spots & patches of resid/tarry/asph dead oil, NSFO]
 3920' spl: mix of siltstones and Ls wh, fn xln, dns to pr xln por, foss in pt

3930' spl: Ls wh-cr, fn xln, mostly dns to pr xln por with scatt sm vugs & interfoss pp pores, foss in pt

Show Descr. —————>
 3923 (-950)
 Ls wh-cr-tan, fn xln, dns to pr xln por, widely scatt vugs, chalky in pt, foss in pt
 [V Fnt Odor, No Fluor, Low % pcs with patches of dk stn & hvy thick oily vugs, scatt shows in low % of pcs with hvy thick deadish oil & NVL hvy oil, tr with dk brn FO, v sli gassy]

Ls wh-cr, fn xln, pr xln por, scatt interfoss pores
 [No odor, no fluor, few pcs per tray with spotty stn and trace shows of NVL oil on crush, could be from above?]

Ls wh-cr, fn xln, chalky in pt, pr xln por to dns in pt, foss in pt

Ls, wh-cr, fn xln, shaley in pt

3968 (-995)
 Sh black, carb (first arrival in 3980' spl. Arrived in abundance)

Sh gy-dk gy-grnish

3990 (-1017)
 Ls wh-cr,fn xln, pr xln por with abund pp & interfoss & interool pores, widely scatt sm vugs, subchalky in pt, abund foss, some fn ool

Show Descr. —————>
 4004 (-1031)
 Sh av-pl arn-arn-red

Ls wh-cr, fn xln, mostly dns to pr xln por with scatt sm vugs & pp pores & foss molds, foss in pt, ool in pt, becomes more dns with depth
 [A zn: V Fnt Odor, fr am't of speckled to patchy dull to mod fluor, mod am't pcs with scatt brn stn, with mostly sli shows of lt brn-brn FO, few pcs with Fr shows of brn FO, v sli gassy]

7:00 AM, April 27, 2020
 Sh gy-grn-red (washes reddish)

Ls wh-cr, fn xln, pr vis xln por, Rr fr xln por, abund pp pores, foss molds & vugs, ool in pt with fr am't of interool pores

[C zn: Mod Odor, Mod am't pcs with dull to mod spotty to patchy fluor, Abund brn-dk brn stn, abund sli-fr shows of dk hvy NVL oil and lt brn-brn gassy FO, a few pcs with gd shows, Rr barren pores]

Ls wh-cr, fn xln, dns-pr xln por, abund pp pores & vugs, abund foss with interfoss pores, foss molds, chert
 [D zn: Stg Odor, scatt mod fluor, abund pcs with spotty-patchy-even brn to dk brn stn, abund sli-fr shows of NVL oil & gassy FO, some pcs with gd shows gassy oil]

Ls wh-cr-tan, fn xln, mostly dns, scatt pr-fr xln por in pt, scatt pp pores, silty/dolom text in pt, Rr ool
 [E zn: Stg Sli Sour odor-from mud?, mod am't of dull fluor, abund pcs with tan-lt brn stn, with mostly sli shows of lt brn FO, few pcs with fr show FO, gassy in pt, few pcs with dk NVL oil]

Ls wh-cr, fn xln, mostly pr xln por with patches & pcs better, some dns, abund pp pores & interfoss pores, scatt sm vugs, foss

Show Descr. —————>
 Ls wh-cr, fn xln, dns-pr xln por, Rr fr xln por, subchalky in pt, with scatt pp pores & s vugs, ool in in patches & pcs with scatt interool pores

[G zn: Mild Odor, mod % pcs with show in top, low % of pcs overall, with spotty-patchy brn stn, with mostly sli shows of gassy lt brn-brn FO, few pcs fr show FO, some NVL oil, becoming nearly barren with depth]

ISIP: 1204 FSIP: 1204
 BHT: 125°F

[3930'spl: Fnt Odor, Rr specks & patches of dull fluor, Low % pcs with scatt lt brn-brn spotty-patchy stn, tr to sli shows of lt brn-brn FO, v sli gassy in pt]

7:00 AM, April 26, 2020

Mud Check, Drlg @ 3951':
 Vis Wt WL LCM PV YP
 66 9.2 8.8 1 16 17
 Chl Hd pH Solids
 3700 80 10.0 6.1

DST #5: 3954-3999 (Toronto)
 Times: 15-30-60-90
 Initial Open: Wk Blow, built to 1-3/4" i.b.,
 No Return Blow
 Final Open: Wk Blow, built to 5-1/4" i.b.,
 No Return Blow
 Rec: 75' MCW: 80%w 20%m
 (chl/wtr 55000 ppm)
 IHP: 1948 FHP: 1915
 IFP: 20-29 FFP: 33-77
 ISIP: 1235 FSIP: 1225
 BHT: 127°F

[Mild Odor, scatt dull-mod fluor, abund % pcs with spotty-patchy-some even, lt brn-brn-dk brn stn, with abund sli shows of lt brn-brn NVL oil & sli gassy FO, some pcs with Fr show of brn FO, some oily film on crush]

DST #6: 3997-4025 (Lansing A)
 Times: 15-30-60-90
 Initial Open: Fr Blow, built to 6-1/2" i.b.,
 No Return Blow
 Final Open: Stg Blow, b.o.b. in 40 min.,
 No Return Blow
 Rec: 223' Total Fluid, 95' gas in pipe
 10' Oil
 213' MCW/oil scum: 85%w 15%m
 (chl/wtr 36900 ppm)
 IHP: 1963 FHP: 1918
 IFP: 25-53 FFP: 56-129
 ISIP: 1257 FSIP: 1247
 BHT: 130°F

Mud Check, TOOH/DST #6 @ 4025':
 Vis Wt WL LCM PV YP
 56 9.3 10.4 1 15 17
 Chl Hd pH Solids
 6000 100 9.5 6.5

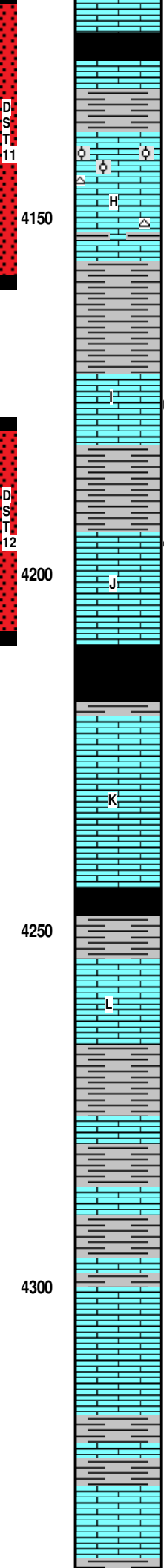
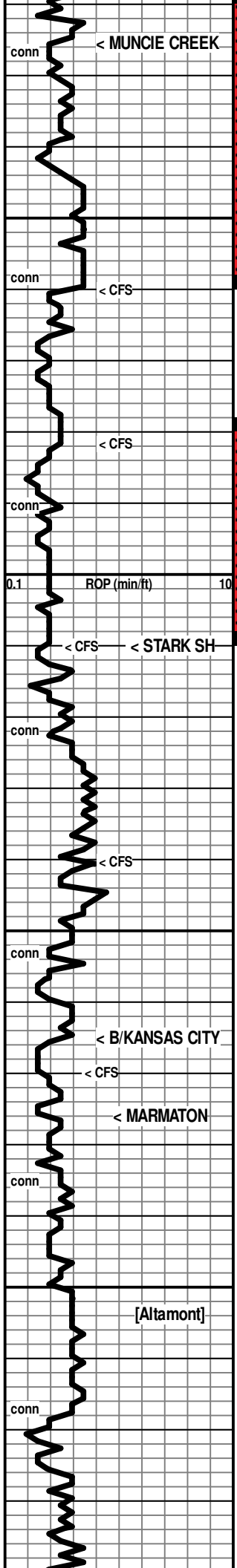
7:00 AM, April 28, 2020

Mud Check, TIH/DST #8 @ 4063':
 Vis Wt WL LCM PV YP
 54 9.1 7.2 1 18 14
 Chl Hd pH Solids
 4000 40 11.0 5.3

7:00 AM, April 29, 2020

[F zn: 4082-4092: Mod Odor, Abund dull-brt fluor, abund spotty-patchy stn, some even stn, with abund sli-fr shows of lt brn-brn FO on crush, sli gassy in pt]

DST #7: 4019-4050 (Lansing C)
 Times: 15-30-30-60
 Initial Open: Stg Blow, b.o.b. 1 min.,
 Return Blow b.o.b. 5 min.
 Final Open: Stg Blow, b.o.b. 1 min, gas to surf 12 min,
 Return Blow b.o.b. 7 min,
 then died back to 8"



4125 (-1152)
 Sh black, carb
 Ls cr-tan, vfn-fn xln, dns
 Sh gy-grn
 Ls wh-cr-tan, fn xln, chalky in pt, dns to pr xln por with scatt fr xln por, widely scatt patches of pp pores & sm vugs, foss, ool in pt (scatt interool pores) chert: fresh, tan transl, foss
 [Mild odor, abund mod fluor, mod % pcs with patches of spotty brn-dk brn stn, with trace to sli shows of NVL oil & FO on crush, gassy in pt]
 7:00 AM, April 30, 2020
 Sh gy-grnsh-grn-red
 Ls wh-cr-tan-gy, fn xln, mostly dns, some chalky, foss in pt
 [No Odor, No fluor, V Rr pcs with scant spots & patches brn stn, some blk spotty dead stn, NSFO]
 Sh gy-grn with some red, silty in pt
 Ls wh-cr-tan-gy, fn xln, mostly pr xln por, some patches of fr xln por, widely scatt pp pores & foss molds, some chalky, ool in pt with scatt interool pores, foss in pt
 [Fnt Odor, high % of pcs with dull-mod speckled-patchy-even fluor, abund pcs with tr-sli shows of lt brn-brn gassy FO on crush, with spotty-patchy lt brn-brn stn,
 4210 (-1237)
 Sh gy-dk gy-black, crb in pt
 Ls wh-cr-tan-brn, vfn-fn xln, chalky in pt, dns in great pt, Rr patches of pr xln por, foss
 [No Odor, No fluor, few pcs with with scant spots of stn, a few of those pcs with trace of micro-drops dk brn FO on crush]
 Ls wh-cr, frxln, dns in pt, chalk in pt, foss in pt
 7:00 AM, May 01, 2020
 Sh Black, carb in pt, gy-grnsh in pt
 Ls wh-cr-tan, fn xln, pr-fr xln por in pt, dns in pt, subchalky-chalky in pt, foss-abund foss
 [No Odor, No fluor, a few pcs total with scant spots of stn, found one pc with tr of a micro-drop of FO on crush]
 4265 (-1292)
 Sh gy-grnsh
 4276 (-1303)
 Ls wh-cr, fn xln, dns
 Ls wh-cr-gy, vfn-fn xln, dns to pr vis xln por, foss in pt; Sh gy-dk gy-grnsh
 Ls wh-cr-tan, fn xln, dns-pr xln por, foss in pt
 Sh gy-reddish
 50% Ls wh-cr,fn xln, dns-pr xln por, foss in pt; 50% Sh gy-grn to pinkish, silty text in pt
 4350' spl: 90% ls wh-cr. fn xln. subchalky in pt. dns in pt. some

Rec: 2944' GCO: 30%g 70%o. (36* API)
 With 1008' gas in pipe
 IHP: 1966 FHP: 1949
 IFP: 451-739 FFP: 789-1054
 ISIP: 1217 FSIP: 1191
 BHT: 131°F

DST #8: 4050-4063 (Lansing D)
 Times: 15-30-45-60
 Initial Open: Wk Surf Blow
 Final Open: Wk Blow, built to 1-3/4", died back to 1"
 Rec: 31' OCM: 30%o 70%g and 31' gip
 IHP: 1978 FHP: 1935
 IFP: 19-19 FFP: 13-19
 ISIP: 182 FSIP: 103
 BHT: 121°F

DST #9: 4060-4082 (Lansing E)
 Times: 15-30-30-30
 Initial Open: Wk Blow, built to 1", died back to 3/4"
 Final Open: Built to Wk Surf Blow
 Rec: 30' SOCM: 10%o 90%g
 IHP: 1977 FHP: 1930
 IFP: 24-31 FFP: 25-32
 ISIP: 1288 FSIP: 1238
 BHT: 119°F

Mud Check, Drlg @ 4083':

| Vis | Wt | WL | LCM | PV | YP |
|------|-----|------|--------|----|----|
| 59 | 9.1 | 8.0 | 1 | 16 | 18 |
| Chl | Hd | pH | Solids | | |
| 4600 | 80 | 10.5 | 4.5 | | |

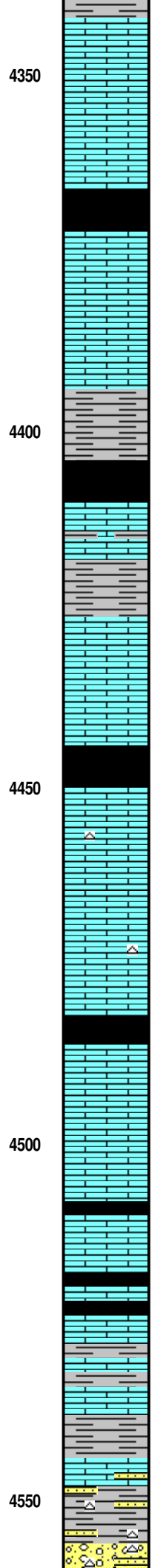
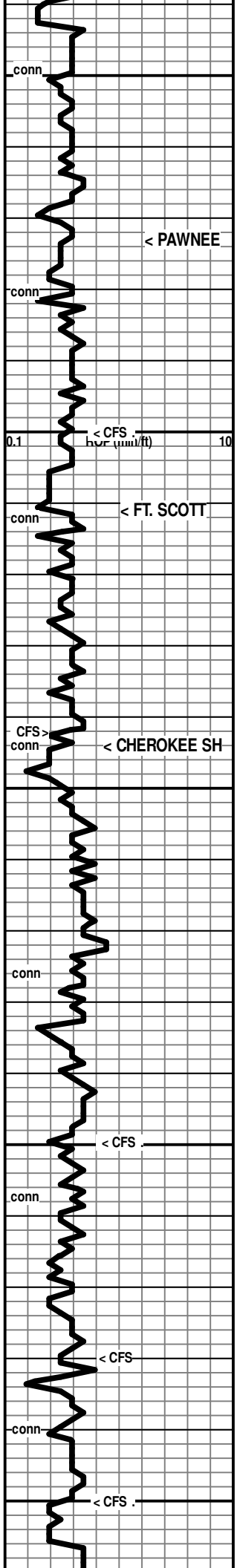
DST #10: 4082-4092 (Lansing F)
 Times: 15-30-10-out
 Initial Open: Wk Surf Blow
 Final Open: Wk Intermittent Surf Blow
 Rec: 15' OSM
 IHP: 2015 FHP: 1935
 IFP: 18-22 FFP: 23-26
 ISIP: 1311 FSIP: NA
 BHT: 115°F

DST #11: 4118-4160 (LKC H)
 Times: 15-30-15-45
 Initial Open: Stg Blow, b.o.b. 1 min., Return Blow b.o.b. 9 min.
 Final Open: Stg Blow, b.o.b. 2 min., Return Blow b.o.b. 10 min.
 Rec: 665' Total Fluid, 2925' gas in pipe
 190' GOCM: 30%g 30%o 40%
 475' GCO: 50%g 50%o (Oil Gravity 39* API)
 IHP: 2036 FHP: 1987
 IFP: 69-173 FFP: 182-260
 ISIP: 1330 FSIP: 1329
 BHT: 133°F

Mud Check, TOOH/DST11 @ 4160':

| Vis | Wt | WL | LCM | PV | YP |
|------|-----|------|--------|----|----|
| 52 | 9.3 | 8.8 | 1 | 13 | 16 |
| Chl | Hd | pH | Solids | | |
| 5000 | 120 | 10.0 | 6.7 | | |

DST #12: 4178-4210 (LKC J)
 Times: 15-30-10-out
 Initial Open: V Wk Blow, built to 1/4" i.b.
 Final Open: No Blow
 Rec: 10' OSM
 IHP: 2020 FHP: 2015
 IFP: 18-20 FFP: 21-21
 ISIP: 62 FSIP: NA
 BHT: 112°F



grainy text with pr vis xln por, ool in pt (well cem)

4350
Ls wh-cr-tan-gy, vfn-fn xln, mostly dns, some subchalky, some silty/grainy dns text, foss in pt

Sh dk gy-black, carb in pt

← 4373 (-1400)

Ls wh-cr-tan, fnxln, mostly dns, some pr xln por, Rr scatt pp pores, Rr scatt sm vugs ool in pt (vfn) with Rr interool pores, foss in pt

[V Fnt Odor, Scatt spots of dull fluor, a few pcs per tray with spots of brn stn, a few of those pcs had trace to sli shows of micro-drops of brn FO on crush, v sli gassy]

4400
Sh gy-dk gy

Sh black, carb

← 4411 (-1438)

Ls wh-cr-tan-brn, vfn-fn xln, mostly dns & firm, some chalky & softer, foss

Sh dk gy

Ls wh-cr-tan, fn xln, much dns & firm, increased chalky & softer, foss to abund foss

4450
← 4444 (-1471)

Sh black, carb

Ls wh-cr-tan, vfn-fn xln, mix of dns & hard to softer & chalky, some pr xln por, foss, chert: fresh, tan, trans

Ls wh-cr-tan, vfn-fn xln, mix of dns & hard to softer & chalky, foss, chert: fresh, tan, trans

Sh black, carb

Ls cr-tan-gy-dk gy, vfn-fn xln, dns in pt, chalky in patches & pcs, foss in pt

4500
Ls wh-cr, fnxln, dns & firm to softer & subchalky-chalky, foss in pt, (washes white); some dk gy-blk shales

Ls wh-cr, fnxln, dns & firm to softer & subchalky-chalky, foss in pt, (washes white); some dk gy-blk shales

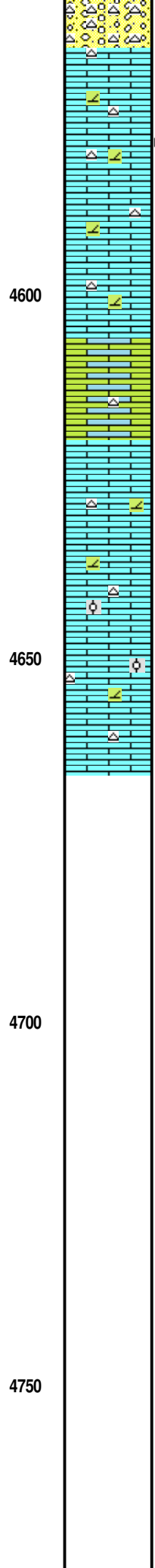
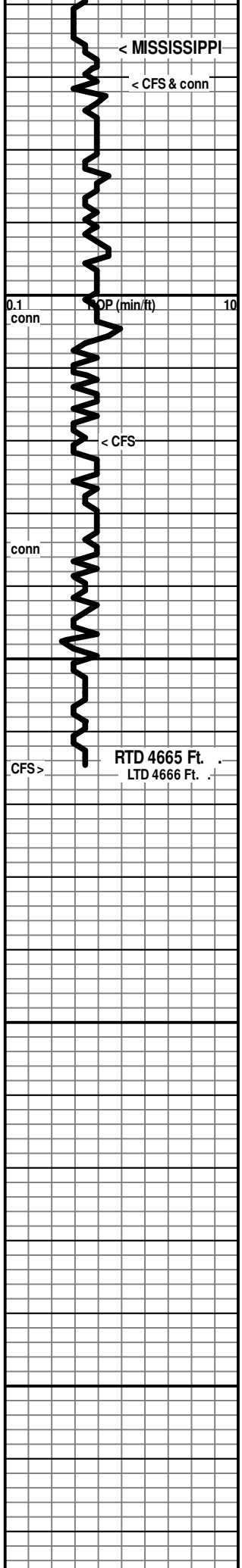
4550' spl: shale % incr. Red-gy-grm, argill to silty; some Ls wh-cr, fnxln, sdy in patches, dns

A few white sd clusters, fn gm, fr sort, subrd, gd fri

Mix of: Sd wh, vfn-fn gm, gd sort, gd fri, subed; Shales: red-gy-grm-yell-lav; Chert: fresh to grainy, wh-tan-cr-orange-salmon, trans-subtr, spiculitic in pt

Mud Check, CFS @ 4240':

| Vis | Wt | WL | LCM | PV | YP |
|------|-----|------|--------|----|----|
| 59 | 9.1 | 7.2 | 2 | 18 | 16 |
| Chl | Hd | pH | Solids | | |
| 4400 | 60 | 11.0 | 5.2 | | |



← 4566 (-1593)

Ls wh-cr-tan-pl gy, fnxln, dns, silty/grainy/dolom text, cherty: fresh. transl, spic.

Ls wh-cr-tan-pl gy, fnxln, dns, silty/grainy/dolom text in pt, some blocky text, some chalky in patches & pcs, less cherty: fresh. transl, spic.
 [No Odor, No fluor, a few pcs with scant spotty stn of dead oil]

Ls wh-cr-tan-pl gy, fnxln, dns, silty/grainy/dolom text in pt, some blocky text, some chalky in patches & pcs, Rr scatt glauc specks, less cherty: fresh. transl, spic.

Ls-dol Ls Limey Dol tan-gy, fn xln, mostly dns, some pr xln por, foss in pt, cherty, fresh, transl, spic in pt

Ls wh-cr-tan-pl gy, fnxln, dns, silty/grainy/dolom text in pt, some blocky text, some chalky in patches & pcs, less cherty: fresh. transl, spic.

Ls cr-tan, with some white chalky pcs, dns to pr xln por, foss, some ool (well cem), chert: fresh to grainy, transl to opa, foss, spic in pt

Ls cr-tan-gy, with some white chalky pcs, dns to pr xln por, foss, some ool (well cem), incr in chert: fresh to grainy, mostly wh-cr, transl to opa, foss, spic in pt

7:00 AM, May 02, 2020

Mud Check, CFS @ 4620':

| Vis | Wt | WL | LCM | PV | YP |
|------|-----|------|--------|----|----|
| 61 | 9.3 | 8.8 | 1 | 18 | 17 |
| Chl | Hd | pH | Solids | | |
| 5000 | 80 | 10.0 | 6.4 | | |

Reached RTD 4665 Ft.,
10:45 AM, May 02, 2020

| | | | | |
|---------------------|------|--|--|--|
| 0.1 ROP (min/ft) 10 | 4800 | | | |
|---------------------|------|--|--|--|



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Steiger Unit #1-35

35-8S-31W Thomas,KS

Start Date: 2020.04.23 @ 19:38:00

End Date: 2020.04.24 @ 01:43:45

Job Ticket #: 66858 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.05.04 @ 11:39:17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530
 ATTN: Brad Rine

35-8S-31W Thomas,KS

Steiger Unit #1-35

Job Ticket: 66858 **DST#: 1**
 Test Start: 2020.04.23 @ 19:38:00

GENERAL INFORMATION:

Formation: **Tarkio**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:14:30
 Time Test Ended: 01:43:45
 Interval: **3641.00 ft (KB) To 3690.00 ft (KB) (TVD)**
 Total Depth: 3690.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Royal Fisher
 Unit No: 77
 Reference Elevations: 2973.00 ft (KB)
 2963.00 ft (CF)
 KB to GR/CF: 10.00 ft

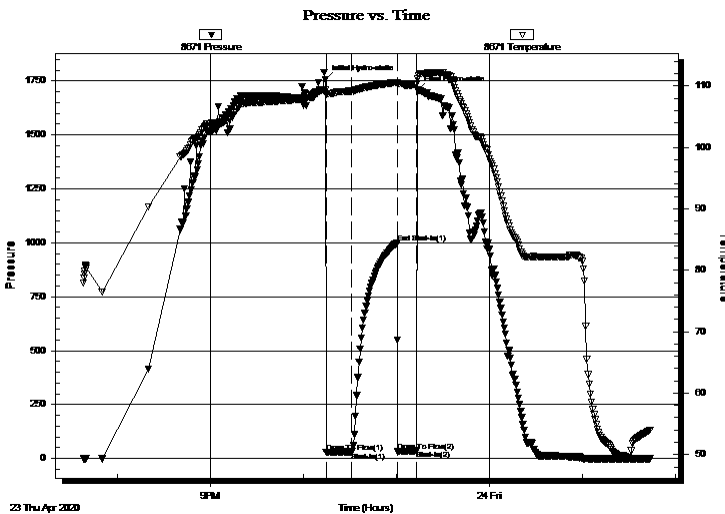
Serial #: 8671

Outside

Press@RunDepth: 30.87 psig @ 3642.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.04.23 End Date: 2020.04.24 Last Calib.: 2020.04.24
 Start Time: 19:38:05 End Time: 01:43:44 Time On Btm: 2020.04.23 @ 22:14:00
 Time Off Btm: 2020.04.23 @ 23:13:15

TEST COMMENT: 15 - IF - chased tool 6 ft to bottom - blow built up to 1 3/4"
 30 - ISI - No Return
 10 - FF - No Blow - Pulled Tool

PRESSURE SUMMARY



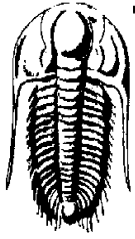
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1756.17 | 109.35 | Initial Hydro-static |
| 1 | 29.01 | 108.67 | Open To Flow (1) |
| 17 | 30.87 | 109.16 | Shut-In(1) |
| 47 | 998.21 | 110.60 | End Shut-In(1) |
| 47 | 31.61 | 110.30 | Open To Flow (2) |
| 59 | 38.19 | 110.30 | Shut-In(2) |
| 60 | 1706.84 | 111.25 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 31.00 | Mud - 100%m | 0.32 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
| | | |



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530
 ATTN: Brad Rine

35-8S-31W Thomas,KS

Steiger Unit #1-35

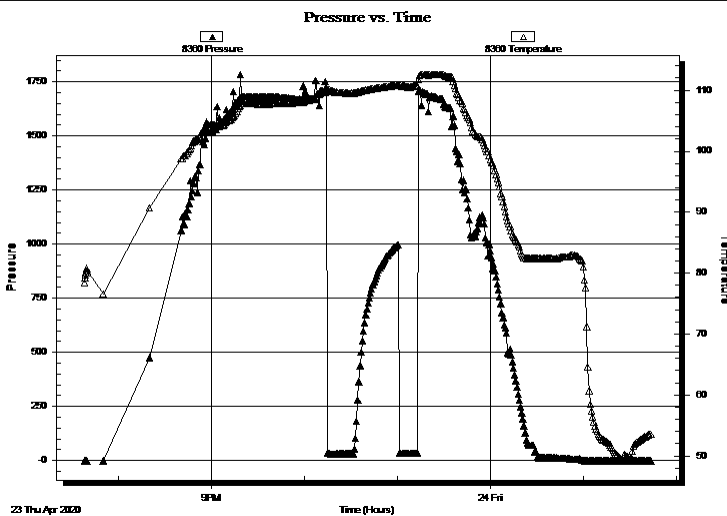
Job Ticket: 66858 **DST#: 1**
 Test Start: 2020.04.23 @ 19:38:00

GENERAL INFORMATION:

Formation: **Tarkio**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:14:30
 Time Test Ended: 01:43:45
 Interval: **3641.00 ft (KB) To 3690.00 ft (KB) (TVD)**
 Total Depth: 3690.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches
 Hole Condition:
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Royal Fisher
 Unit No: 77
 Reference Elevations: 2973.00 ft (KB)
 2963.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8360 Inside
 Press@RunDepth: psig @ 3642.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.04.23 End Date: 2020.04.24 Last Calib.: 2020.04.24
 Start Time: 19:38:05 End Time: 01:43:44 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15 - IF - chased tool 6 ft to bottom - blow built up to 1 3/4"
 30 - ISI - No Return
 10 - FF - No Blow - Pulled Tool



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------|--------------|
| 31.00 | Mud - 100% m | 0.32 |
| | | |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
| | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

35-8S-31W Thomas,KS
Steiger Unit #1-35
Job Ticket: 66858 **DST#: 1**
Test Start: 2020.04.23 @ 19:38:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3623.00 ft | Diameter: 3.25 inches | Volume: 37.17 bbl | Tool Weight: 2500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 60000.00 lb |
| | | | <u>Total Volume: 37.17 bbl</u> | Tool Chased 6.00 ft |
| Drill Pipe Above KB: | 15.00 ft | | | String Weight: Initial 46000.00 lb |
| Depth to Top Packer: | 3641.00 ft | | | Final 48000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 49.00 ft | | | |
| Tool Length: | 82.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|-------------------------|--------------------|-------------------|-----------------|-------------------|-----------------------|
|-------------------------|--------------------|-------------------|-----------------|-------------------|-----------------------|

| | | | | | |
|-----------------|-------|------|---------|---------|------------------------------------|
| Shut In Tool | 5.00 | | | 3613.00 | |
| Hydraulic tool | 5.00 | | | 3618.00 | |
| Em Tool | 5.00 | | | 3623.00 | |
| Jars | 5.00 | | | 3628.00 | |
| Safety Joint | 3.00 | | | 3631.00 | |
| Packer | 5.00 | | | 3636.00 | 33.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3641.00 | |
| Stubb | 1.00 | | | 3642.00 | |
| Recorder | 0.00 | 8360 | Inside | 3642.00 | |
| Recorder | 0.00 | 8671 | Outside | 3642.00 | |
| Perforations | 12.00 | | | 3654.00 | |
| Change Over Sub | 1.00 | | | 3655.00 | |
| Drill Pipe | 31.00 | | | 3686.00 | |
| Change Over Sub | 1.00 | | | 3687.00 | |
| Bullnose | 3.00 | | | 3690.00 | 49.00 Bottom Packers & Anchor |

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

35-8S-31W Thomas,KS
Steiger Unit #1-35
Job Ticket: 66858 **DST#: 1**
Test Start: 2020.04.23 @ 19:38:00

Mud and Cushion Information

| | | | |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 61.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 6.36 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 2000.00 ppm | | | |
| Filter Cake: 1.00 inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 31.00 | Mud - 100%m | 0.318 |

Total Length: 31.00 ft Total Volume: 0.318 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

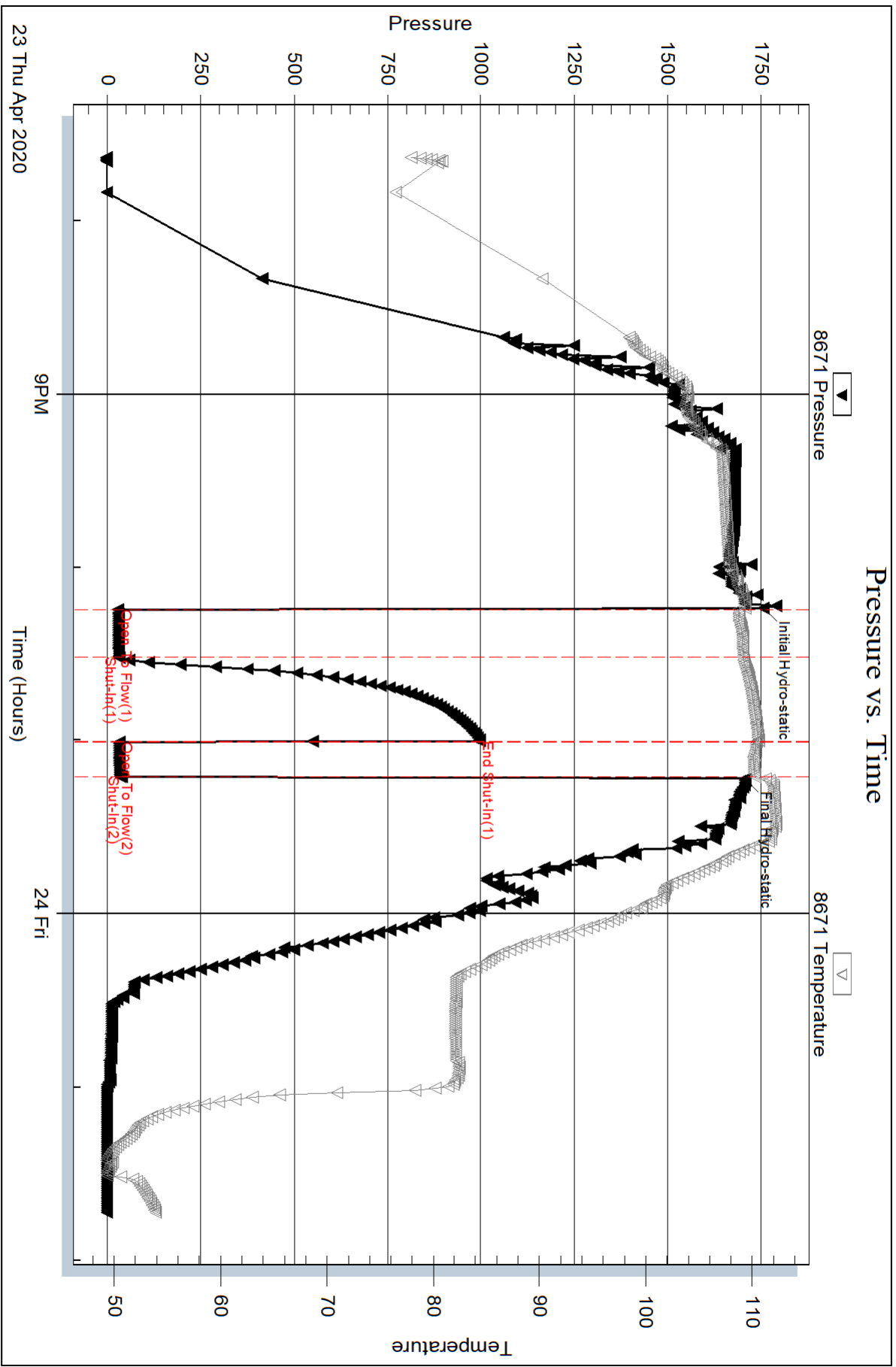
Recovery Comments:

Serial #: 8671

Outside Carmen Schmitt, Inc.

Steiger Unit #1-35

DST Test Number: 1



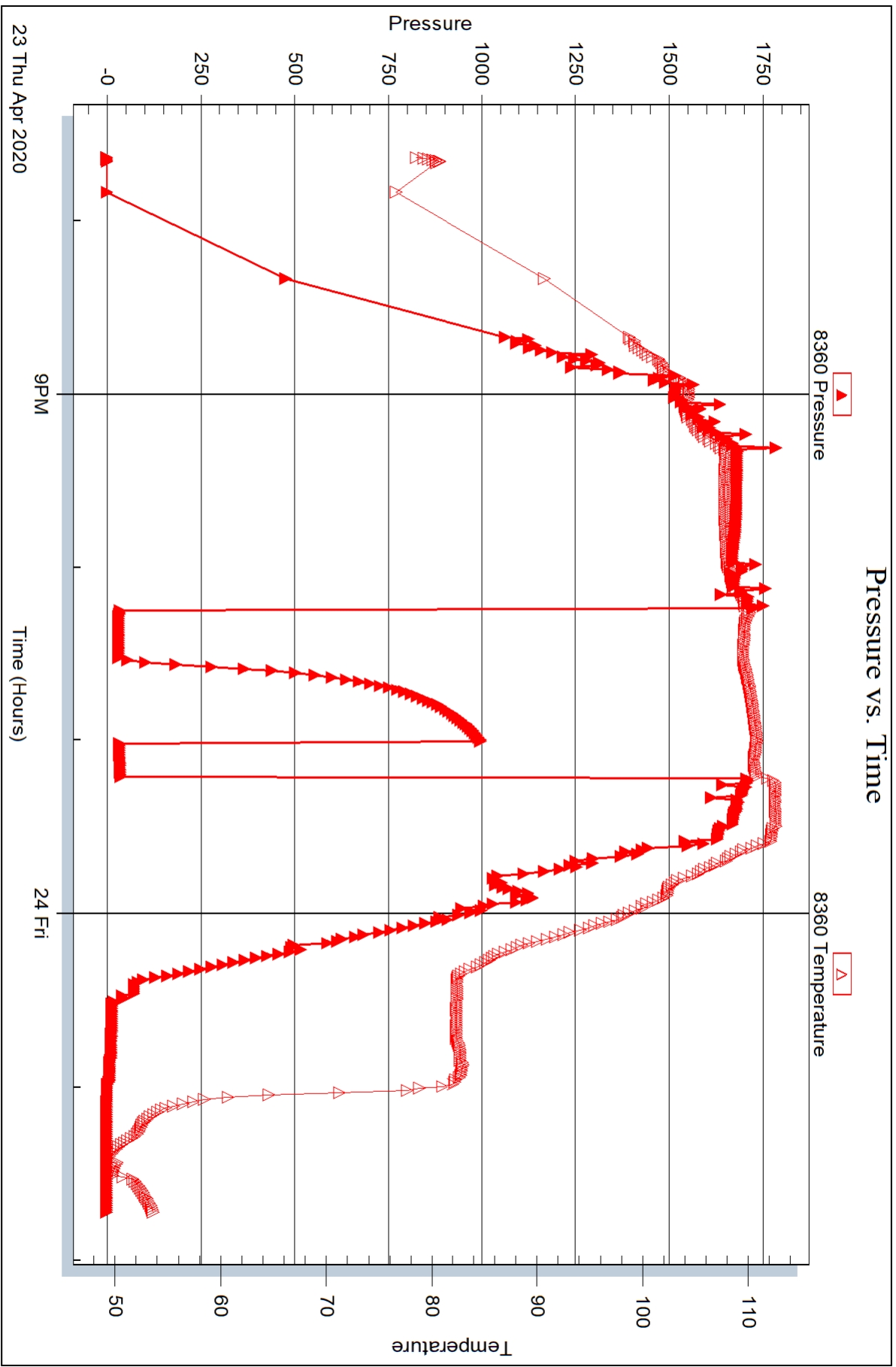
Serial #: 8360

Inside

Carmen Schmitt, Inc.

Steiger Unit #1-35

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 66858

Printed: 2020.05.04 @ 11:39:18



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Steiger Unit #1-35

35-8S-31W Thomas,KS

Start Date: 2020.04.29 @ 11:14:00

End Date: 2020.04.29 @ 16:03:45

Job Ticket #: 66867 DST #: 10

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.05.04 @ 11:34:59



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530
 ATTN: Brad Rine

35-8S-31W Thomas,KS

Steiger Unit #1-35

Job Ticket: 66867 **DST#: 10**
 Test Start: 2020.04.29 @ 11:14:00

GENERAL INFORMATION:

Formation: **LKC F**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 13:07:15 Tester: Royal Fisher
 Time Test Ended: 16:03:45 Unit No: 77
 Interval: **4082.00 ft (KB) To 4092.00 ft (KB) (TVD)** Reference Elevations: 2973.00 ft (KB)
 Total Depth: 4092.00 ft (KB) (TVD) 2963.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

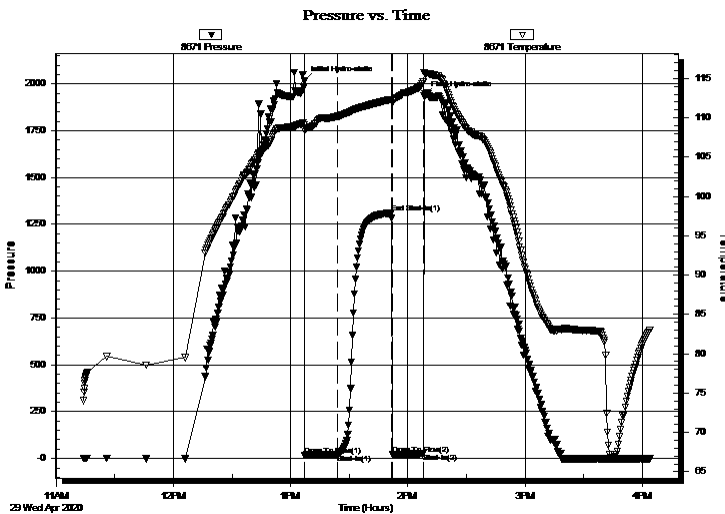
Serial #: 8671

Outside

Press@RunDepth: 22.03 psig @ 4083.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.04.29 End Date: 2020.04.29 Last Calib.: 2020.04.29
 Start Time: 11:14:05 End Time: 16:03:44 Time On Btm: 2020.04.29 @ 13:07:00
 Time Off Btm: 2020.04.29 @ 14:08:15

TEST COMMENT: 15 - IF - Blow stayed at a weak surface
 30 - ISI - No Return
 10 - Blow built to a Faint blow
 FSI - pulled tool

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2014.92 | 109.10 | Initial Hydro-static |
| 1 | 18.17 | 108.40 | Open To Flow (1) |
| 17 | 22.03 | 110.17 | Shut-In(1) |
| 45 | 1310.72 | 112.34 | End Shut-In(1) |
| 45 | 23.49 | 111.87 | Open To Flow (2) |
| 61 | 26.24 | 114.59 | Shut-In(2) |
| 62 | 1934.95 | 115.77 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------------------|--------------|
| 15.00 | OSM - Oil Spots - 100% _m | 0.15 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
| | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

35-8S-31W Thomas,KS
Steiger Unit #1-35
Job Ticket: 66867 **DST#: 10**
Test Start: 2020.04.29 @ 11:14:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4067.00 ft | Diameter: 3.25 inches | Volume: 41.73 bbl | Tool Weight: 2500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 60000.00 lb |
| | | | <u>Total Volume: 41.73 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 18.00 ft | | | String Weight: Initial 50000.00 lb |
| Depth to Top Packer: | 4082.00 ft | | | Final 50000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 10.00 ft | | | |
| Tool Length: | 43.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|-------------------------|--------------------|-------------------|-----------------|-------------------|-----------------------|
|-------------------------|--------------------|-------------------|-----------------|-------------------|-----------------------|

| | | | | | |
|----------------|------|------|---------|---------|------------------------------------|
| Shut In Tool | 5.00 | | | 4054.00 | |
| Hydraulic tool | 5.00 | | | 4059.00 | |
| EM Tool | 5.00 | | | 4064.00 | |
| Jars | 5.00 | | | 4069.00 | |
| Safety Joint | 3.00 | | | 4072.00 | |
| Packer | 5.00 | | | 4077.00 | 33.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 4082.00 | |
| Stubb | 1.00 | | | 4083.00 | |
| Recorder | 0.00 | 8360 | Inside | 4083.00 | |
| Recorder | 0.00 | 8671 | Outside | 4083.00 | |
| Perforations | 6.00 | | | 4089.00 | |
| Bullnose | 3.00 | | | 4092.00 | 10.00 Bottom Packers & Anchor |

Total Tool Length: 43.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

35-8S-31W Thomas,KS
Steiger Unit #1-35
Job Ticket: 66867 **DST#: 10**
Test Start: 2020.04.29 @ 11:14:00

Mud and Cushion Information

| | | | |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 59.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 7.98 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 4600.00 ppm | | | |
| Filter Cake: 1.00 inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------------|---------------|
| 15.00 | OSM - Oil Spots - 100%m | 0.154 |

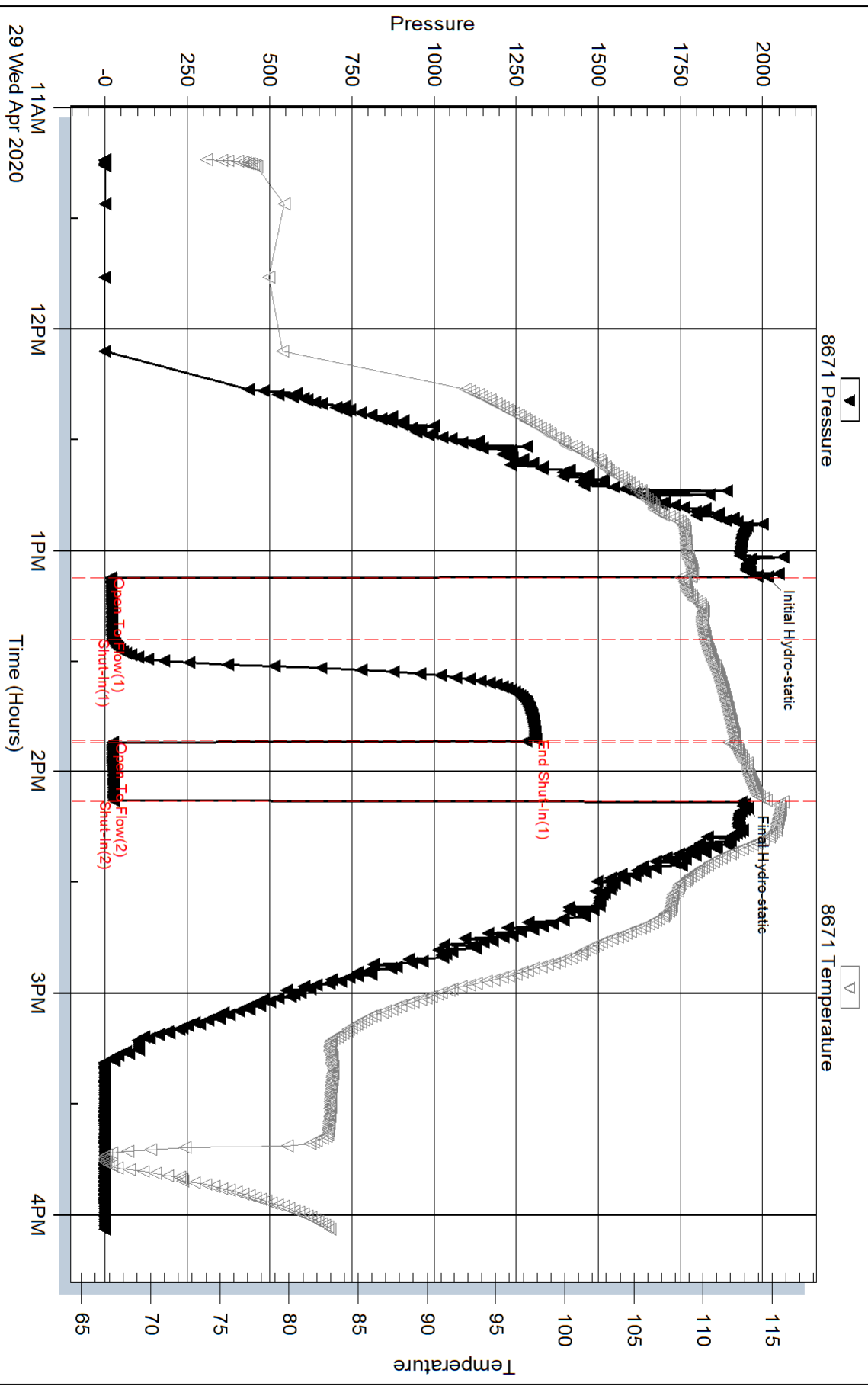
Total Length: 15.00 ft Total Volume: 0.154 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Steiger Unit #1-35

35-8S-31W Thomas,KS

Start Date: 2020.04.30 @ 00:34:08

End Date: 2020.04.30 @ 08:35:23

Job Ticket #: 66868 DST #: 11

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.05.04 @ 11:32:19



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530
 ATTN: Brad Rine

35-8S-31W Thomas,KS

Steiger Unit #1-35

Job Ticket: 66868 **DST#: 11**
 Test Start: 2020.04.30 @ 00:34:08

GENERAL INFORMATION:

Formation: **LKC H**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:53:53
 Time Test Ended: 08:35:23
 Interval: **4118.00 ft (KB) To 4160.00 ft (KB) (TVD)**
 Total Depth: 4160.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 77
 Reference Elevations: 2973.00 ft (KB)
 2963.00 ft (CF)
 KB to GR/CF: 10.00 ft

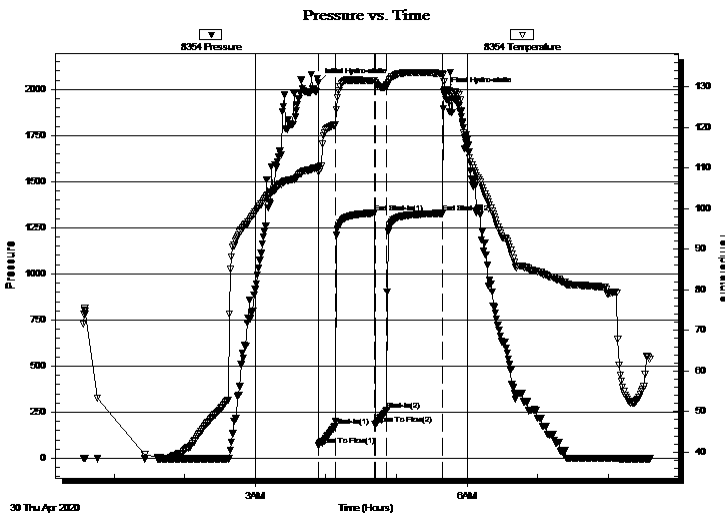
Serial #: 8354

Inside

Press@RunDepth: 260.05 psig @ 4119.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.04.30 End Date: 2020.04.30 Last Calib.: 2020.04.30
 Start Time: 00:34:13 End Time: 08:35:22 Time On Btm: 2020.04.30 @ 03:53:38
 Time Off Btm: 2020.04.30 @ 05:40:08

TEST COMMENT: 15- IF- BOB 1 min. Built to 93.48"
 30- IS- BOB 9 mins. Built to 29.77"
 15- FF- BOB 2 mins. Built to 38.31"
 45- FSI- BOB 10 mins. Built to 28.77"

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2036.14 | 110.20 | Initial Hydro-static |
| 1 | 68.94 | 109.02 | Open To Flow (1) |
| 14 | 173.15 | 120.57 | Shut-In(1) |
| 48 | 1330.43 | 131.47 | End Shut-In(1) |
| 48 | 182.32 | 131.01 | Open To Flow (2) |
| 58 | 260.05 | 130.19 | Shut-In(2) |
| 106 | 1329.14 | 133.17 | End Shut-In(2) |
| 107 | 1986.98 | 131.25 | Final Hydro-static |

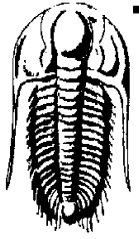
Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------|--------------|
| 190.00 | GHOCM, 30%G 30%O 40%M | 2.69 |
| 475.00 | VGCO, 50%G 50%O | 6.73 |
| 0.00 | 2925' GIP | 0.00 |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
| | | | |



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530
 ATTN: Brad Rine

35-8S-31W Thomas,KS

Steiger Unit #1-35

Job Ticket: 66868

DST#: 11

Test Start: 2020.04.30 @ 00:34:08

GENERAL INFORMATION:

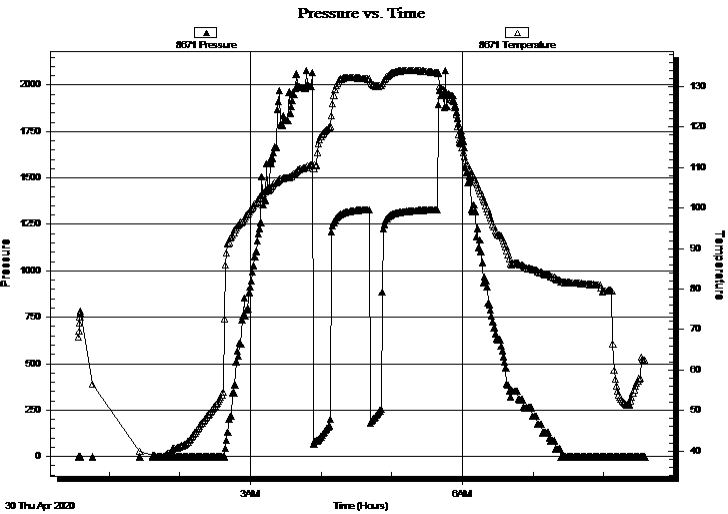
Formation: **LKC H**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:53:53
 Time Test Ended: 08:35:23
 Interval: **4118.00 ft (KB) To 4160.00 ft (KB) (TVD)**
 Total Depth: 4160.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 77
 Reference Elevations: 2973.00 ft (KB)
 2963.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8671

Outside

Press@RunDepth: psig @ 4119.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.04.30 End Date: 2020.04.30 Last Calib.: 2020.04.30
 Start Time: 00:34:07 End Time: 08:35:16 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15- IF- BOB 1 min. Built to 93.48"
 30- IS- BOB 9 mins. Built to 29.77"
 15- FF- BOB 2 mins. Built to 38.31"
 45- FS- BOB 10 mins. Built to 28.77"



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
| | | | |
| | | | |
| | | | |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------|--------------|
| 190.00 | GHOCM, 30%G 30%O 40%M | 2.69 |
| 475.00 | VGCO, 50%G 50%O | 6.73 |
| 0.00 | 2925' GIP | 0.00 |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
| | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

35-8S-31W Thomas,KS

Steiger Unit #1-35

Job Ticket: 66868

DST#: 11

Test Start: 2020.04.30 @ 00:34:08

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4100.00 ft | Diameter: 3.82 inches | Volume: 58.12 bbl | Tool Weight: 2500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: 58000.00 lb |
| | | | <u>Total Volume: 58.12 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 15.00 ft | | | String Weight: Initial 48000.00 lb |
| Depth to Top Packer: | 4118.00 ft | | | Final 51000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 42.00 ft | | | |
| Tool Length: | 75.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| Change Over Sub | 1.00 | | | 4086.00 | |
| Shut In Tool | 5.00 | | | 4091.00 | |
| Hydraulic tool | 5.00 | | | 4096.00 | |
| Gap Sub | 5.00 | | | 4101.00 | |
| Jars | 5.00 | | | 4106.00 | |
| Safety Joint | 3.00 | | | 4109.00 | |
| Packer | 5.00 | | | 4114.00 | 33.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4118.00 | |
| Stubb | 1.00 | | | 4119.00 | |
| Recorder | 0.00 | 8354 | Inside | 4119.00 | |
| Recorder | 0.00 | 8671 | Outside | 4119.00 | |
| Perforations | 2.00 | | | 4121.00 | |
| Change Over Sub | 1.00 | | | 4122.00 | |
| Drill Pipe | 32.00 | | | 4154.00 | |
| Change Over Sub | 1.00 | | | 4155.00 | |
| Perforations | 2.00 | | | 4157.00 | |
| Bullnose | 3.00 | | | 4160.00 | 42.00 Bottom Packers & Anchor |
| Total Tool Length: | 75.00 | | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

35-8S-31W Thomas,KS
Steiger Unit #1-35
Job Ticket: 66868 **DST#: 11**
Test Start: 2020.04.30 @ 00:34:08

Mud and Cushion Information

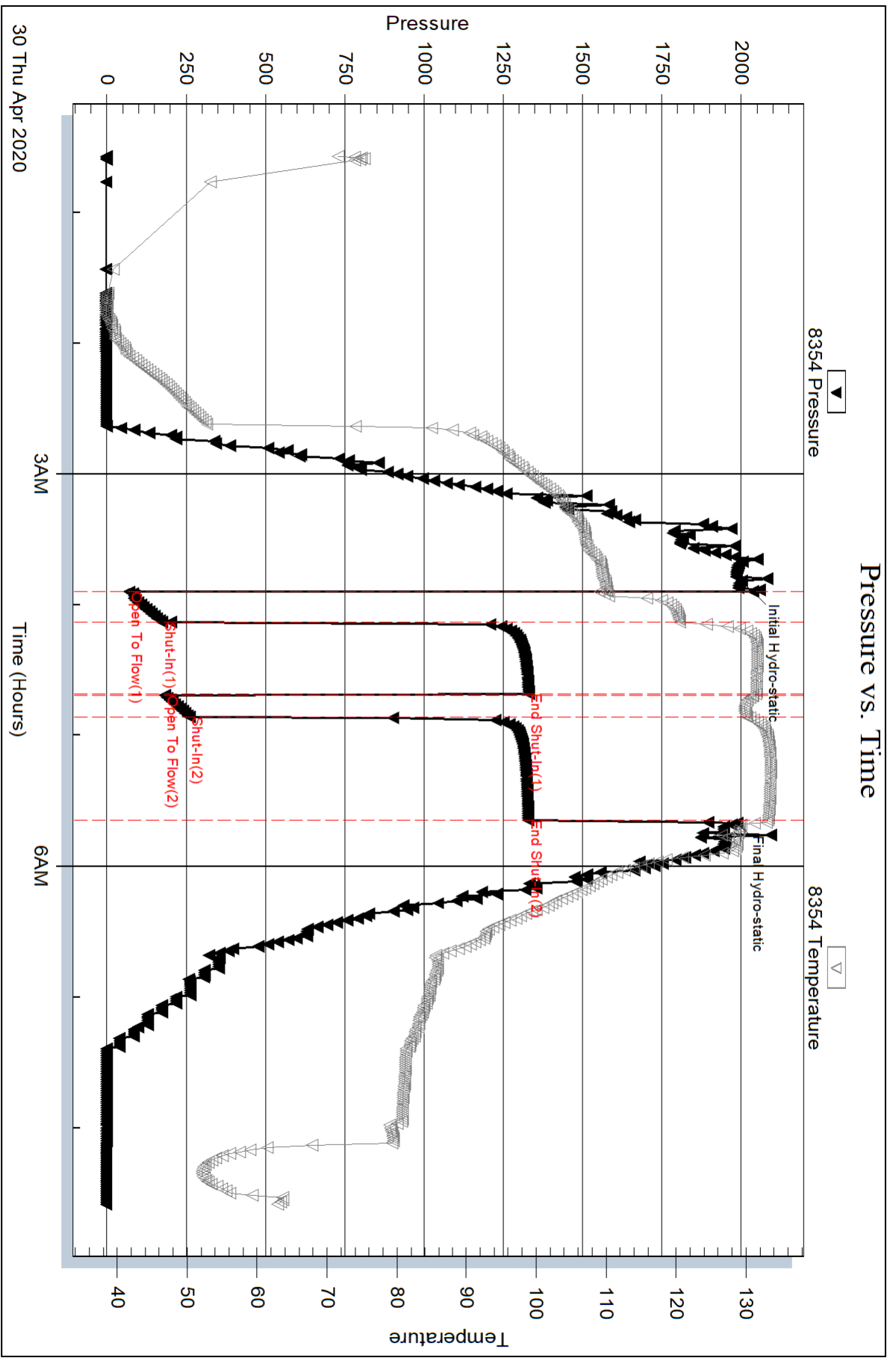
| | | |
|----------------------------------|----------------------------|---------------------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: 39 deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: ppm |
| Viscosity: 59.00 sec/qt | Cushion Volume: bbl | |
| Water Loss: 7.97 in ³ | Gas Cushion Type: | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | |
| Salinity: 4600.00 ppm | | |
| Filter Cake: inches | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-----------------------|---------------|
| 190.00 | GHOCM, 30%G 30%O 40%M | 2.693 |
| 475.00 | VGCO, 50%G 50%O | 6.733 |
| 0.00 | 2925' GIP | 0.000 |

Total Length: 665.00 ft Total Volume: 9.426 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

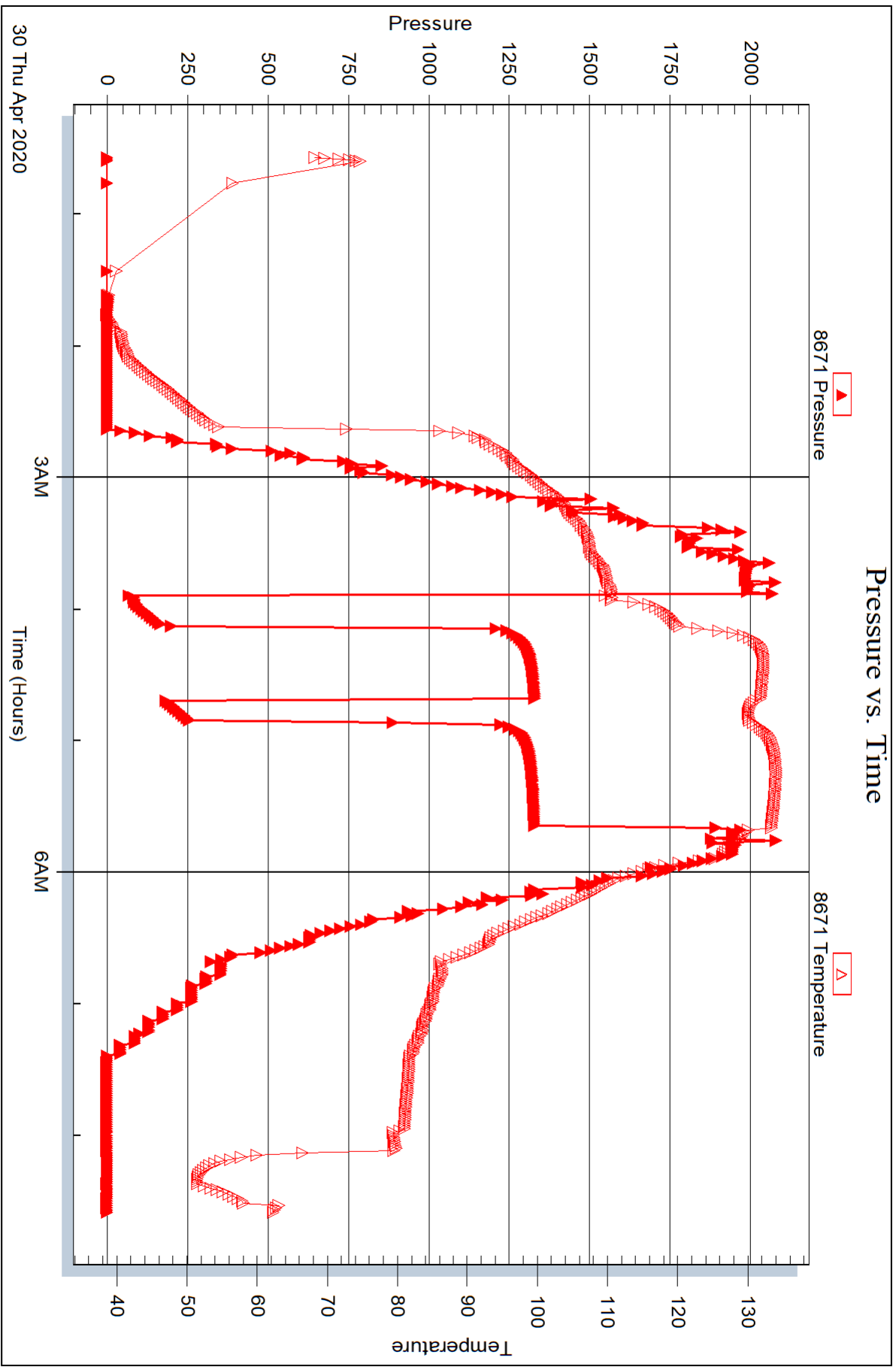


Serial #: 8671

Outside Carmen Schnitt, Inc.

Steiger Unit #1-35

DST Test Number: 11





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Steiger Unit #1-35

35-8S-31W Thomas,KS

Start Date: 2020.04.30 @ 16:05:42

End Date: 2020.05.01 @ 03:12:42

Job Ticket #: 66869 DST #: 12

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.05.04 @ 11:31:51



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530
 ATTN: Brad Rine

35-8S-31W Thomas,KS

Steiger Unit #1-35

Job Ticket: 66869 **DST#: 12**
 Test Start: 2020.04.30 @ 16:05:42

GENERAL INFORMATION:

Formation: **LKC J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:10:42
 Time Test Ended: 03:12:42
 Interval: **4178.00 ft (KB) To 4210.00 ft (KB) (TVD)**
 Total Depth: 4210.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 77
 Reference Elevations: 2973.00 ft (KB)
 2963.00 ft (CF)
 KB to GR/CF: 10.00 ft

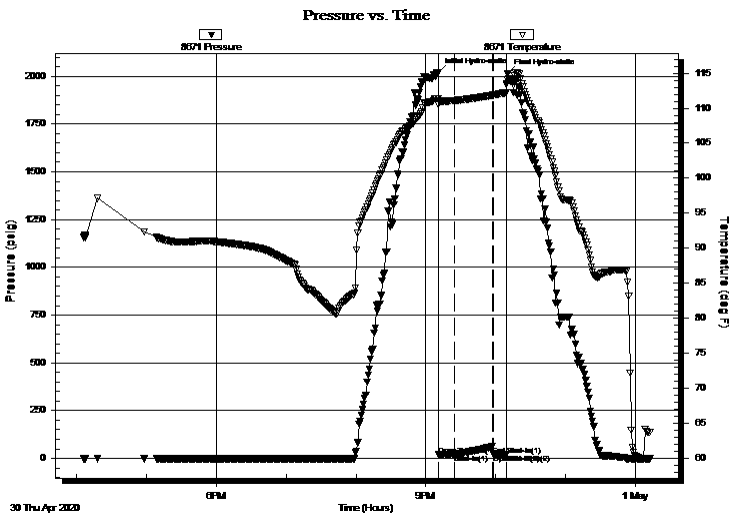
Serial #: 8671

Outside

Press@RunDepth: 20.22 psig @ 4179.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.04.30 End Date: 2020.05.01 Last Calib.: 2020.05.01
 Start Time: 16:05:47 End Time: 00:12:41 Time On Btm: 2020.04.30 @ 21:10:27
 Time Off Btm: 2020.04.30 @ 22:10:27

TEST COMMENT: 15- IF- 1/4" blow
 30- IS- No blow
 15- FF- No blow . Pulled tool

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2019.89 | 111.39 | Initial Hydro-static |
| 1 | 18.30 | 110.47 | Open To Flow (1) |
| 15 | 20.22 | 111.09 | Shut-In(1) |
| 47 | 62.36 | 111.86 | End Shut-In(1) |
| 48 | 20.55 | 111.88 | Open To Flow (2) |
| 59 | 21.01 | 112.23 | Shut-In(2) |
| 60 | 2014.66 | 114.02 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 10.00 | OSM | 0.14 |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
| | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

35-8S-31W Thomas,KS

Steiger Unit #1-35

Job Ticket: 66869

DST#: 12

Test Start: 2020.04.30 @ 16:05:42

GENERAL INFORMATION:

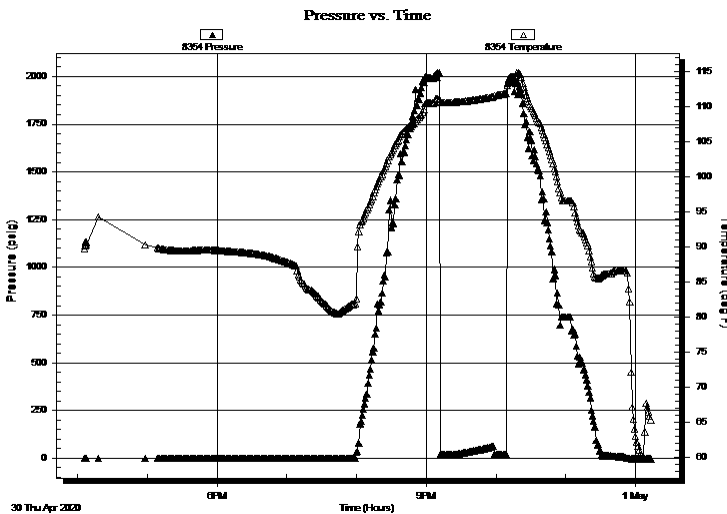
Formation: **LKC J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:10:42
 Time Test Ended: 03:12:42
 Interval: **4178.00 ft (KB) To 4210.00 ft (KB) (TVD)**
 Total Depth: 4210.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 77
 Reference Elevations: 2973.00 ft (KB)
 2963.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8354

Inside

Press@RunDepth: psig @ 4179.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.04.30 End Date: 2020.05.01 Last Calib.: 2020.05.01
 Start Time: 16:06:12 End Time: 00:13:06 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15- IF- 1/4" blow
 30- IS- No blow
 15- FF- No blow . Pulled tool



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 10.00 | OSM | 0.14 |
| | | |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
| | | |

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

35-8S-31W Thomas,KS

Steiger Unit #1-35

Job Ticket: 66869

DST#: 12

Test Start: 2020.04.30 @ 16:05:42

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4163.00 ft | Diameter: 3.82 inches | Volume: 59.01 bbl | Tool Weight: 2500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: 68000.00 lb |
| | | | <u>Total Volume: 59.01 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 18.00 ft | | | String Weight: Initial 51000.00 lb |
| Depth to Top Packer: | 4178.00 ft | | | Final 51000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 32.00 ft | | | |
| Tool Length: | 65.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub | 1.00 | | | 4146.00 | |
| Shut In Tool | 5.00 | | | 4151.00 | |
| Hydraulic tool | 5.00 | | | 4156.00 | |
| Gap Sub | 5.00 | | | 4161.00 | |
| Jars | 5.00 | | | 4166.00 | |
| Safety Joint | 3.00 | | | 4169.00 | |
| Packer | 5.00 | | | 4174.00 | 33.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4178.00 | |
| Stubb | 1.00 | | | 4179.00 | |
| Recorder | 0.00 | 8354 | Inside | 4179.00 | |
| Recorder | 0.00 | 8671 | Outside | 4179.00 | |
| Perforations | 28.00 | | | 4207.00 | |
| Bullnose | 3.00 | | | 4210.00 | 32.00 Bottom Packers & Anchor |

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

35-8S-31W Thomas,KS

PO Box 47
Great Bend, KS 67530

Steiger Unit #1-35

Job Ticket: 66869

DST#: 12

ATTN: Brad Rine

Test Start: 2020.04.30 @ 16:05:42

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 10.00 | OSM | 0.142 |

Total Length: 10.00 ft Total Volume: 0.142 bbl

Num Fluid Samples: 0

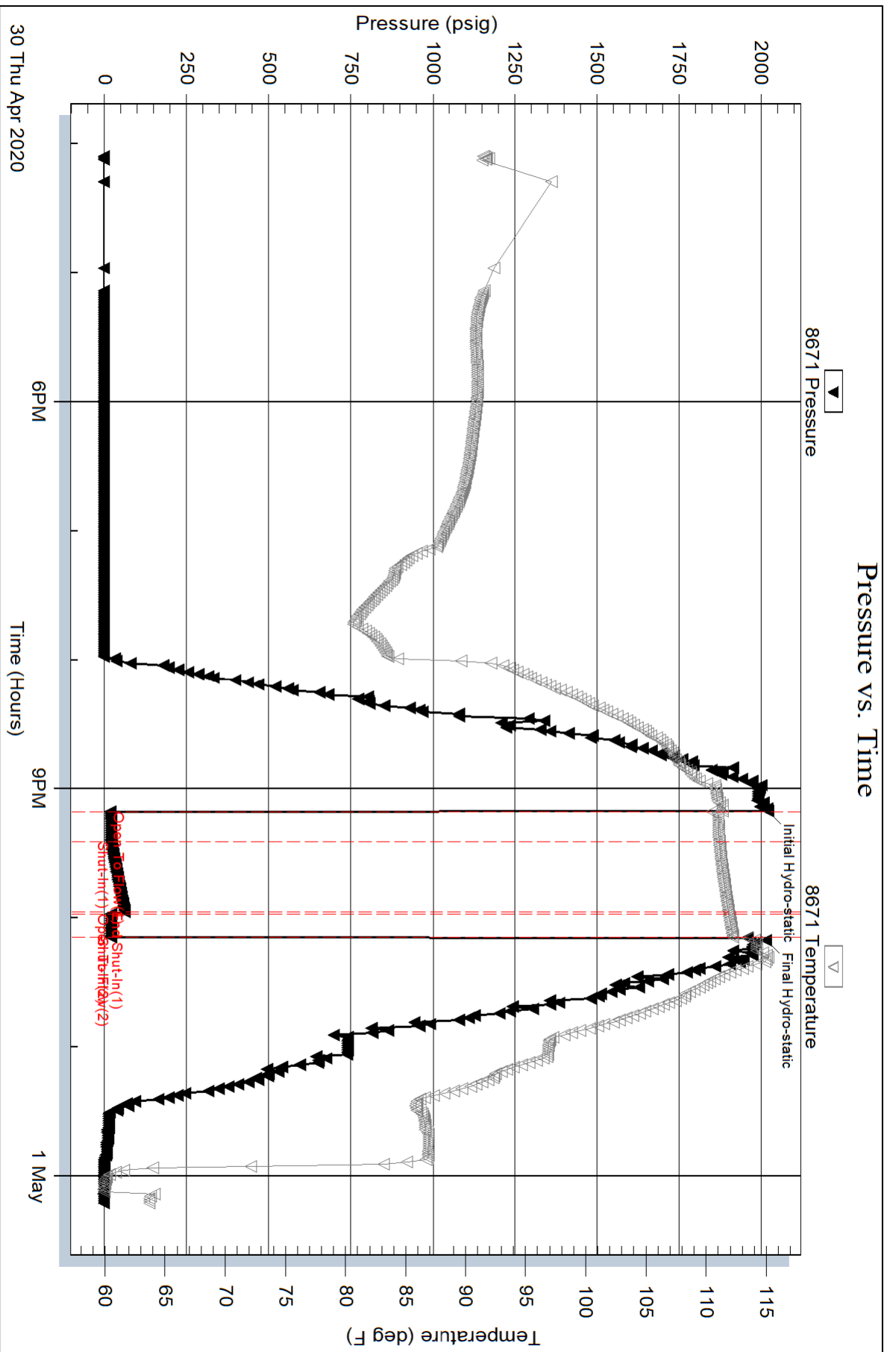
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



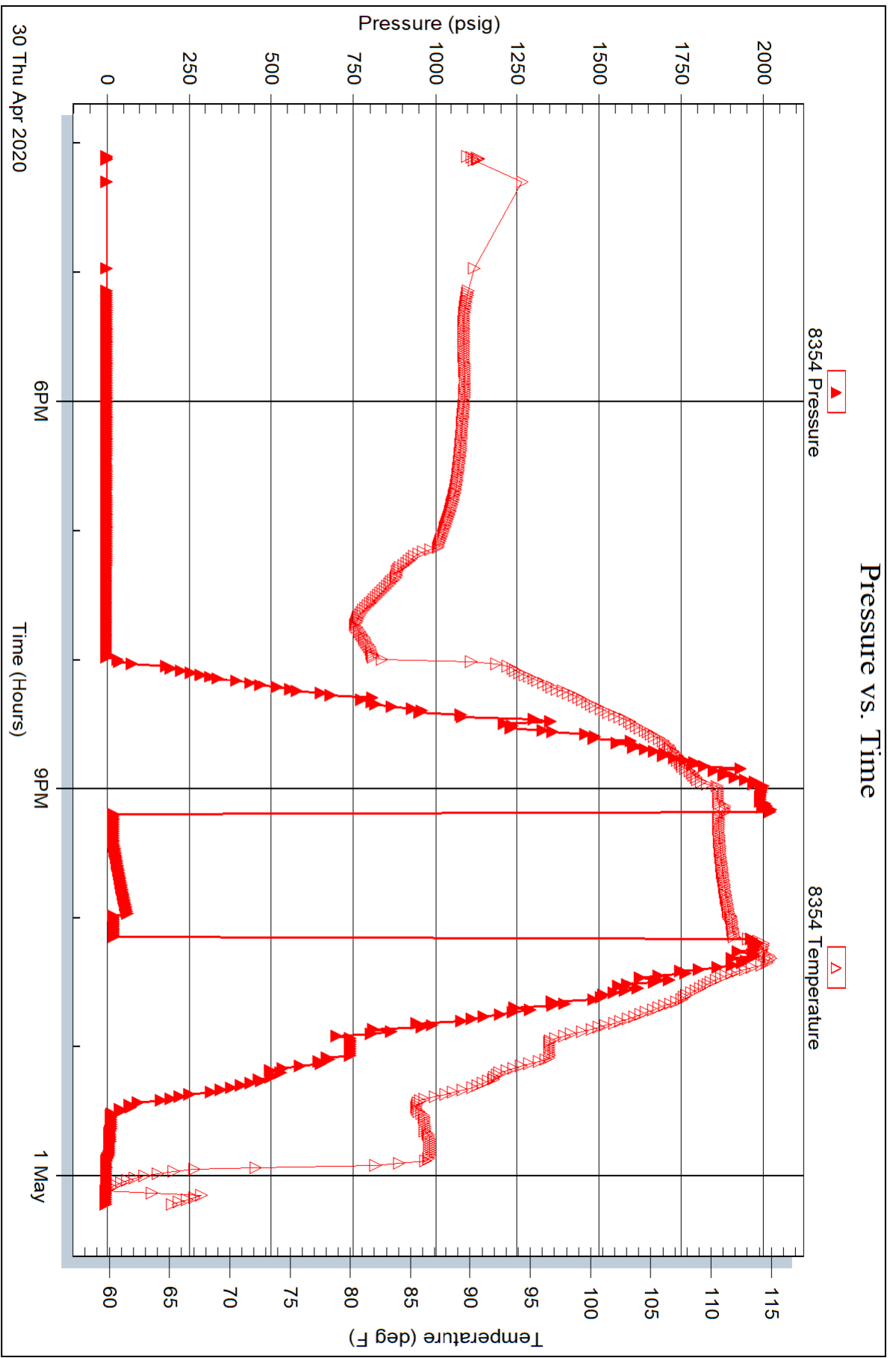
Serial #: 8354

Inside

Carmen Schmitt, Inc.

Steiger Unit #1-35

DST Test Number: 12



Trilobite Testing, Inc

Ref. No: 66869

Printed: 2020.05.04 @ 11:31:52



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Steiger Unit #1-35

35-8S-31W Thomas,KS

Start Date: 2020.04.24 @ 11:03:00

End Date: 2020.04.24 @ 18:35:15

Job Ticket #: 66859 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.05.04 @ 11:38:53

Carmen Schmitt, Inc.

35-8S-31W Thomas,KS

Steiger Unit #1-35

DST # 2

L. Howard - Topeka A

2020.04.24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530
 ATTN: Brad Rine

35-8S-31W Thomas,KS

Steiger Unit #1-35

Job Ticket: 66859 **DST#: 2**
 Test Start: 2020.04.24 @ 11:03:00

GENERAL INFORMATION:

Formation: **L. Howard - Topeka A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:15:15

Time Test Ended: 18:35:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 77

Interval: **3720.00 ft (KB) To 3777.00 ft (KB) (TVD)**

Reference Elevations: 2973.00 ft (KB)

Total Depth: 3777.00 ft (KB) (TVD)

2963.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 10.00 ft

Serial #: 8360

Inside

Press@RunDepth: 59.94 psig @ 3721.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.04.24 End Date: 2020.04.24

Last Calib.: 2020.04.24

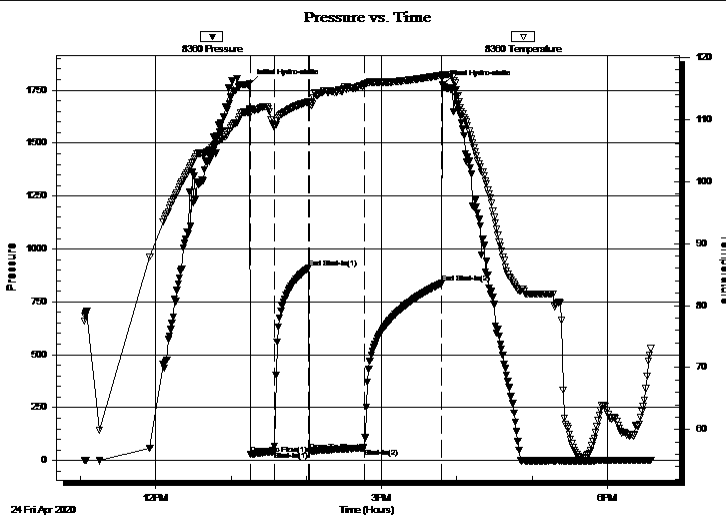
Start Time: 11:03:05 End Time: 18:35:14

Time On Btm: 2020.04.24 @ 13:15:00

Time Off Btm: 2020.04.24 @ 15:49:00

TEST COMMENT: 15 - IF - chased tool 6 ft to bottom blow built to 3"
 30 - ISI - No Return
 45 - FF - Surface blow built up to 2 1/4"
 60 - FSI - No Return

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1781.82 | 111.72 | Initial Hydro-static |
| 1 | 28.82 | 110.92 | Open To Flow (1) |
| 20 | 42.54 | 108.85 | Shut-In(1) |
| 47 | 910.25 | 112.88 | End Shut-In(1) |
| 48 | 44.59 | 112.60 | Open To Flow (2) |
| 91 | 59.94 | 115.61 | Shut-In(2) |
| 153 | 837.48 | 117.11 | End Shut-In(2) |
| 154 | 1774.70 | 117.04 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------|--------------|
| 92.00 | OSM - Oil Spots - 100%m | 0.94 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
| | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

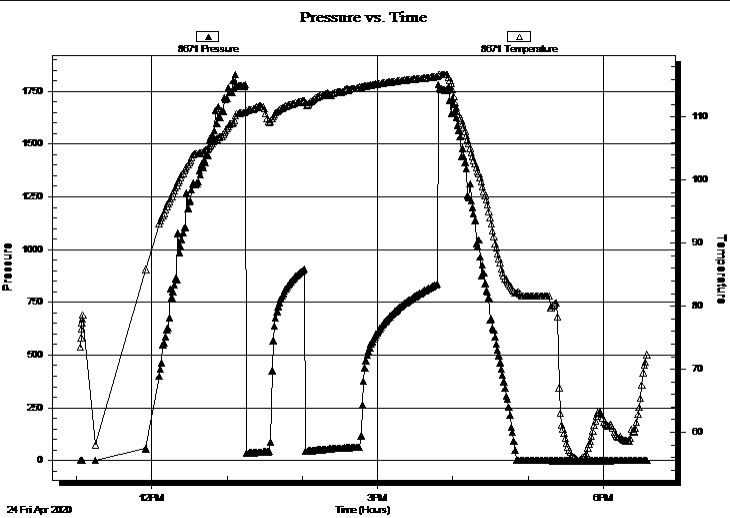
35-8S-31W Thomas,KS
Steiger Unit #1-35
Job Ticket: 66859 **DST#: 2**
Test Start: 2020.04.24 @ 11:03:00

GENERAL INFORMATION:

Formation: **L. Howard - Topeka A**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 13:15:15 Tester: Royal Fisher
Time Test Ended: 18:35:15 Unit No: 77
Interval: 3720.00 ft (KB) To 3777.00 ft (KB) (TVD) Reference Elevations: 2973.00 ft (KB)
Total Depth: 3777.00 ft (KB) (TVD) 2963.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 10.00 ft

Serial #: 8671 Outside
Press@RunDepth: psig @ 3721.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2020.04.24 End Date: 2020.04.24 Last Calib.: 2020.04.24
Start Time: 11:03:05 End Time: 18:34:59 Time On Btm: Time Off Btm:

TEST COMMENT: 15 - IF - chased tool 6 ft to bottom blow built to 3"
30 - ISI - No Return
45 - FF - Surface blow built up to 2 1/4"
60 - FSI - No Return



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------|--------------|
| 92.00 | OSM - Oil Spots - 100%m | 0.94 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
| | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

35-8S-31W Thomas,KS

Steiger Unit #1-35

Job Ticket: 66859

DST#: 2

Test Start: 2020.04.24 @ 11:03:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3718.42 ft | Diameter: 3.25 inches | Volume: 38.15 bbl | Tool Weight: 2500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 54000.00 lb |
| | | | <u>Total Volume: 38.15 bbl</u> | Tool Chased 6.00 ft |
| Drill Pipe Above KB: | 31.42 ft | | | String Weight: Initial 47000.00 lb |
| Depth to Top Packer: | 3720.00 ft | | | Final 48000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 57.00 ft | | | |
| Tool Length: | 90.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments: Had a row of 7 stds and 6 dst stds left to run in and hit a bridge

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Shut In Tool | 5.00 | | | 3692.00 | |
| Hydraulic tool | 5.00 | | | 3697.00 | |
| EM Tool | 5.00 | | | 3702.00 | |
| Jars | 5.00 | | | 3707.00 | |
| Safety Joint | 3.00 | | | 3710.00 | |
| Packer | 5.00 | | | 3715.00 | 33.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3720.00 | |
| Stubb | 1.00 | | | 3721.00 | |
| Recorder | 0.00 | 8360 | Inside | 3721.00 | |
| Recorder | 0.00 | 8671 | Outside | 3721.00 | |
| Perforations | 20.00 | | | 3741.00 | |
| Change Over Sub | 1.00 | | | 3742.00 | |
| Drill Pipe | 31.00 | | | 3773.00 | |
| Change Over Sub | 1.00 | | | 3774.00 | |
| Bullnose | 3.00 | | | 3777.00 | 57.00 Bottom Packers & Anchor |

Total Tool Length: 90.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

35-8S-31W Thomas,KS
Steiger Unit #1-35
Job Ticket: 66859 **DST#: 2**
Test Start: 2020.04.24 @ 11:03:00

Mud and Cushion Information

| | | | |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 50.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 6.76 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 2400.00 ppm | | | |
| Filter Cake: 1.00 inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------------|---------------|
| 92.00 | OSM - Oil Spots - 100%m | 0.944 |

Total Length: 92.00 ft Total Volume: 0.944 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8360

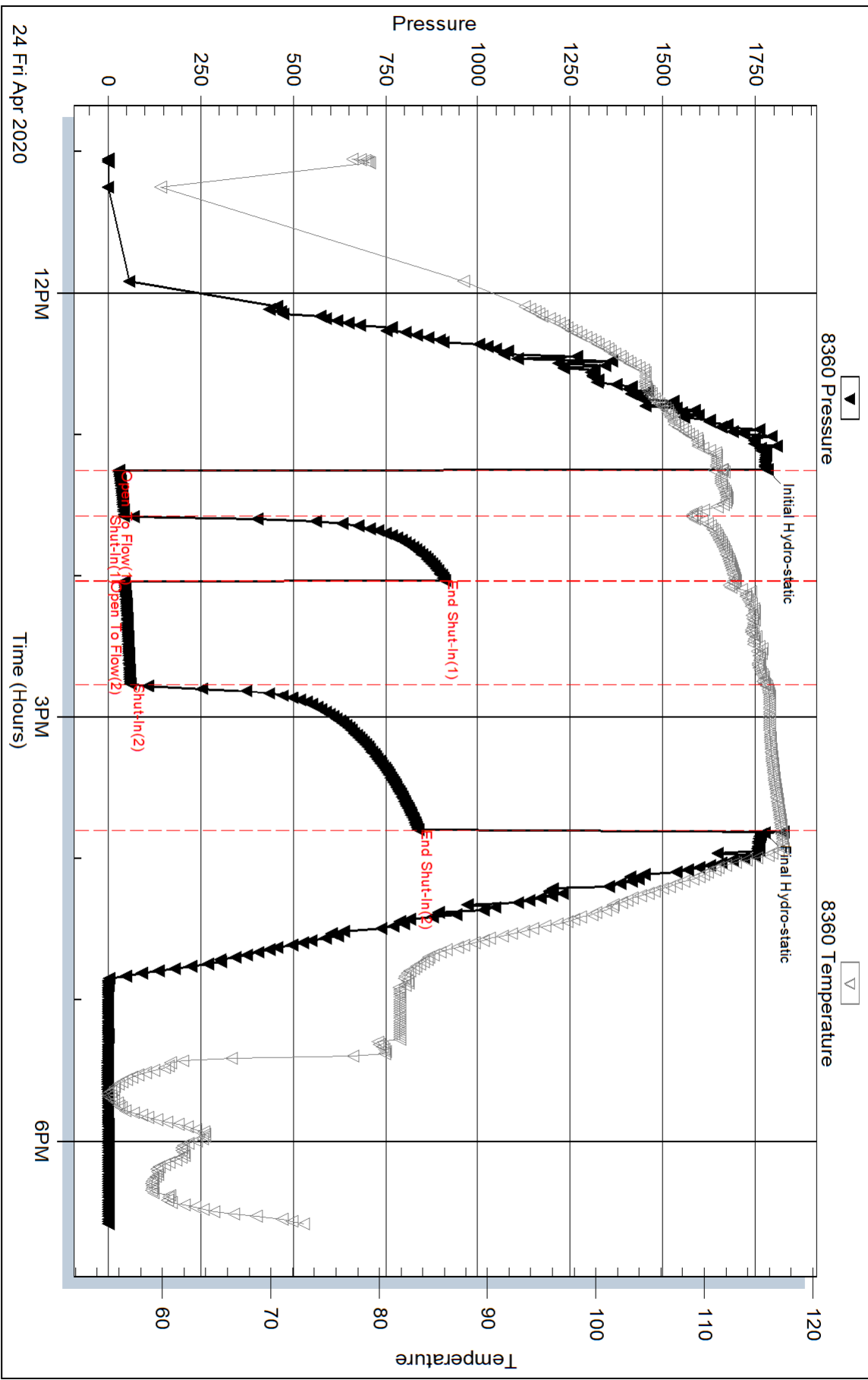
Inside

Carmen Schmitt, Inc.

Steiger Unit #1-35

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 66859

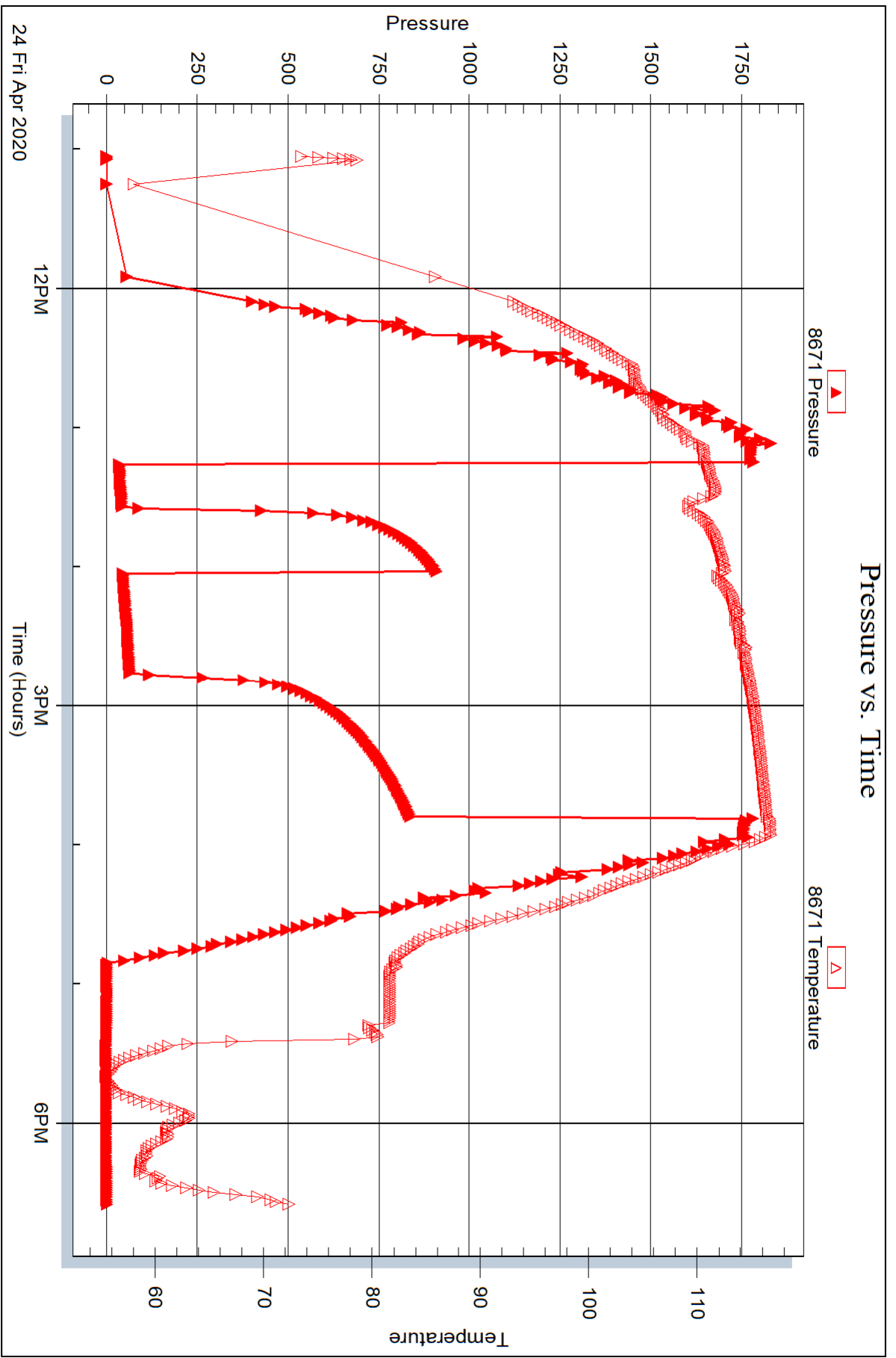
Printed: 2020.05.04 @ 11:38:54

Serial #: 8671

Outside Carmen Schmitt, Inc.

Steiger Unit #1-35

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Steiger Unit #1-35

35-8S-31W Thomas,KS

Start Date: 2020.04.25 @ 05:18:00

End Date: 2020.04.25 @ 11:47:00

Job Ticket #: 66860 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.05.04 @ 11:38:19



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

35-8S-31W Thomas,KS

Steiger Unit #1-35

Job Ticket: 66860 **DST#: 3**
Test Start: 2020.04.25 @ 05:18:00

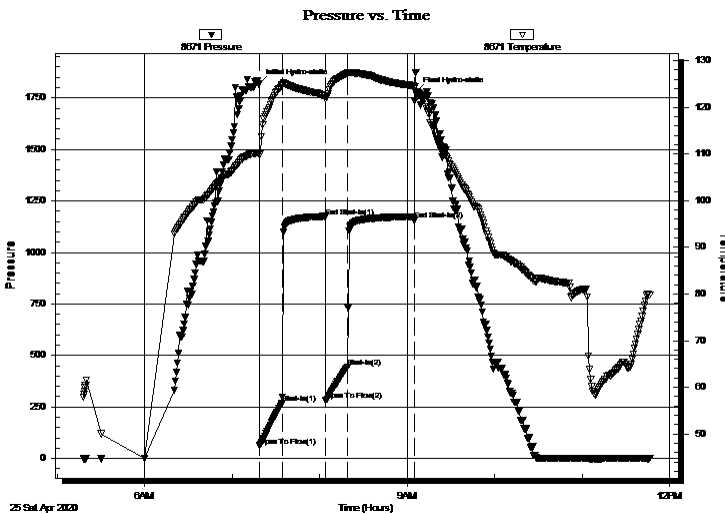
GENERAL INFORMATION:

Formation: **Topeka**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:18:45
Time Test Ended: 11:47:00
Interval: **3773.00 ft (KB) To 3840.00 ft (KB) (TVD)**
Total Depth: 3840.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Royal Fisher
Unit No: 77
Reference Elevations: 2973.00 ft (KB)
2963.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8671 Outside
Press@RunDepth: 444.61 psig @ 3774.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2020.04.25 End Date: 2020.04.25 Last Calib.: 2020.04.25
Start Time: 05:18:05 End Time: 11:46:59 Time On Btm: 2020.04.25 @ 07:18:30
Time Off Btm: 2020.04.25 @ 09:06:30

TEST COMMENT: 15 - IF - Surface blow built to B.o.B. in 4 mins.
30 - ISI - No Return
15 - FF - Blow built up to B.o.B. in 5 mins.
30 - FSI - No Return

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1820.87 | 110.34 | Initial Hydro-static |
| 1 | 61.24 | 109.71 | Open To Flow (1) |
| 16 | 267.64 | 124.72 | Shut-In(1) |
| 46 | 1172.38 | 122.37 | End Shut-In(1) |
| 46 | 281.06 | 121.88 | Open To Flow (2) |
| 61 | 444.61 | 127.25 | Shut-In(2) |
| 107 | 1156.20 | 124.61 | End Shut-In(2) |
| 108 | 1782.09 | 122.72 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------|--------------|
| 470.00 | MW - 10%m - 90%w | 4.82 |
| 235.00 | MW - 30%m - 70%w | 2.41 |
| 225.00 | MW - 45%m - 55%w | 2.31 |
| 10.00 | WM - 20%w - 80%m | 0.10 |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
| | | | |



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530
 ATTN: Brad Rine

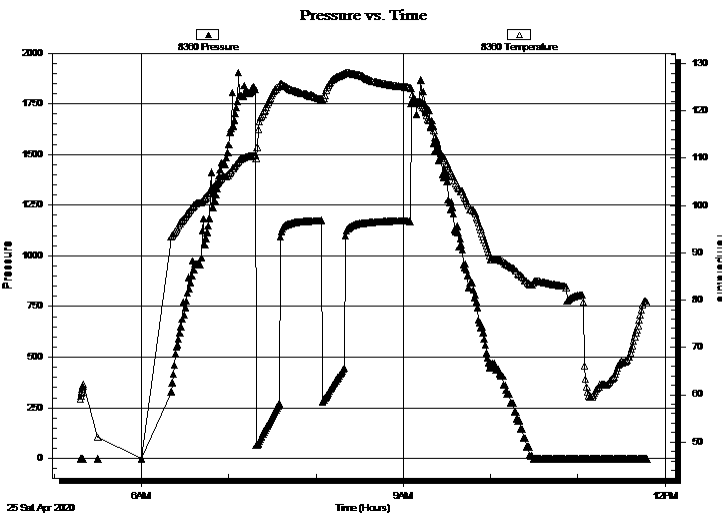
35-8S-31W Thomas,KS
Steiger Unit #1-35
 Job Ticket: 66860 **DST#: 3**
 Test Start: 2020.04.25 @ 05:18:00

GENERAL INFORMATION:

Formation: **Topeka**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 07:18:45 Tester: Royal Fisher
 Time Test Ended: 11:47:00 Unit No: 77
 Interval: **3773.00 ft (KB) To 3840.00 ft (KB) (TVD)** Reference Elevations: 2973.00 ft (KB)
 Total Depth: 3840.00 ft (KB) (TVD) 2963.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

Serial #: 8360 Inside
 Press@RunDepth: psig @ 3774.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.04.25 End Date: 2020.04.25 Last Calib.: 2020.04.25
 Start Time: 05:18:05 End Time: 11:47:14 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15 - IF - Surface blow built to B.o.B. in 4 mins.
 30 - ISI - No Return
 15 - FF - Blow built up to B.o.B. in 5 mins.
 30 - FSI - No Return



| PRESSURE SUMMARY | | | |
|------------------|-----------------|--------------|------------|
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Recovery | | |
|-------------|------------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 470.00 | MW - 10%m - 90%w | 4.82 |
| 235.00 | MW - 30%m - 70%w | 2.41 |
| 225.00 | MW - 45%m - 55%w | 2.31 |
| 10.00 | WM - 20%w - 80%m | 0.10 |
| | | |
| | | |

| Gas Rates | | | |
|-----------|----------------|-----------------|------------------|
| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
| | | | |
| | | | |
| | | | |
| | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

35-8S-31W Thomas,KS

PO Box 47
Great Bend, KS 67530

Steiger Unit #1-35

Job Ticket: 66860

DST#: 3

ATTN: Brad Rine

Test Start: 2020.04.25 @ 05:18:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3750.25 ft | Diameter: 3.25 inches | Volume: 38.48 bbl | Tool Weight: 2500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 56000.00 lb |
| | | | <u>Total Volume: 38.48 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 10.25 ft | | | String Weight: Initial 47000.00 lb |
| Depth to Top Packer: | 3773.00 ft | | | Final 52000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 67.00 ft | | | |
| Tool Length: | 100.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

| | | | | | |
|-----------------|-------|------|---------|---------|-------------------------------|
| Shut In Tool | 5.00 | | | 3745.00 | |
| Hydraulic tool | 5.00 | | | 3750.00 | |
| EM Tool | 5.00 | | | 3755.00 | |
| Jars | 5.00 | | | 3760.00 | |
| Safety Joint | 3.00 | | | 3763.00 | |
| Packer | 5.00 | | | 3768.00 | 33.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3773.00 | |
| Stubb | 1.00 | | | 3774.00 | |
| Recorder | 0.00 | 8360 | Inside | 3774.00 | |
| Recorder | 0.00 | 8671 | Outside | 3774.00 | |
| Perforations | 30.00 | | | 3804.00 | |
| Change Over Sub | 1.00 | | | 3805.00 | |
| Drill Pipe | 31.00 | | | 3836.00 | |
| Change Over Sub | 1.00 | | | 3837.00 | |
| Bullnose | 3.00 | | | 3840.00 | 67.00 Bottom Packers & Anchor |

Total Tool Length: 100.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

35-8S-31W Thomas,KS
Steiger Unit #1-35
Job Ticket: 66860 **DST#: 3**
Test Start: 2020.04.25 @ 05:18:00

Mud and Cushion Information

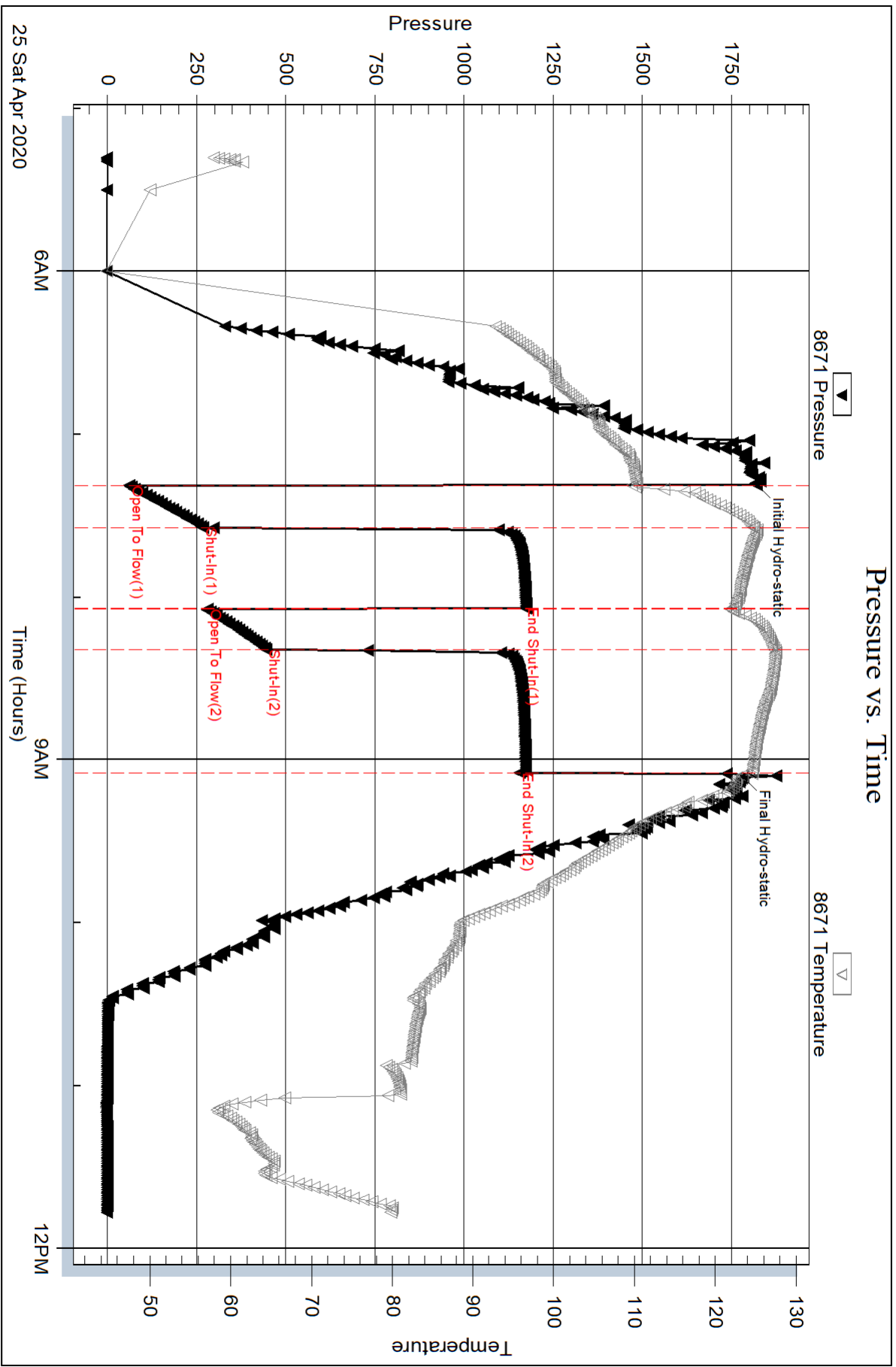
| | | | |
|----------------------------------|----------------------------|-----------------|-----------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | 28000 ppm |
| Viscosity: 50.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 6.76 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 2400.00 ppm | | | |
| Filter Cake: 1.00 inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|------------------|---------------|
| 470.00 | MW - 10%m - 90%w | 4.823 |
| 235.00 | MW - 30%m - 70%w | 2.411 |
| 225.00 | MW - 45%m - 55%w | 2.309 |
| 10.00 | WM - 20%w - 80%m | 0.103 |

Total Length: 940.00 ft Total Volume: 9.646 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: .331 @ 51 deg.



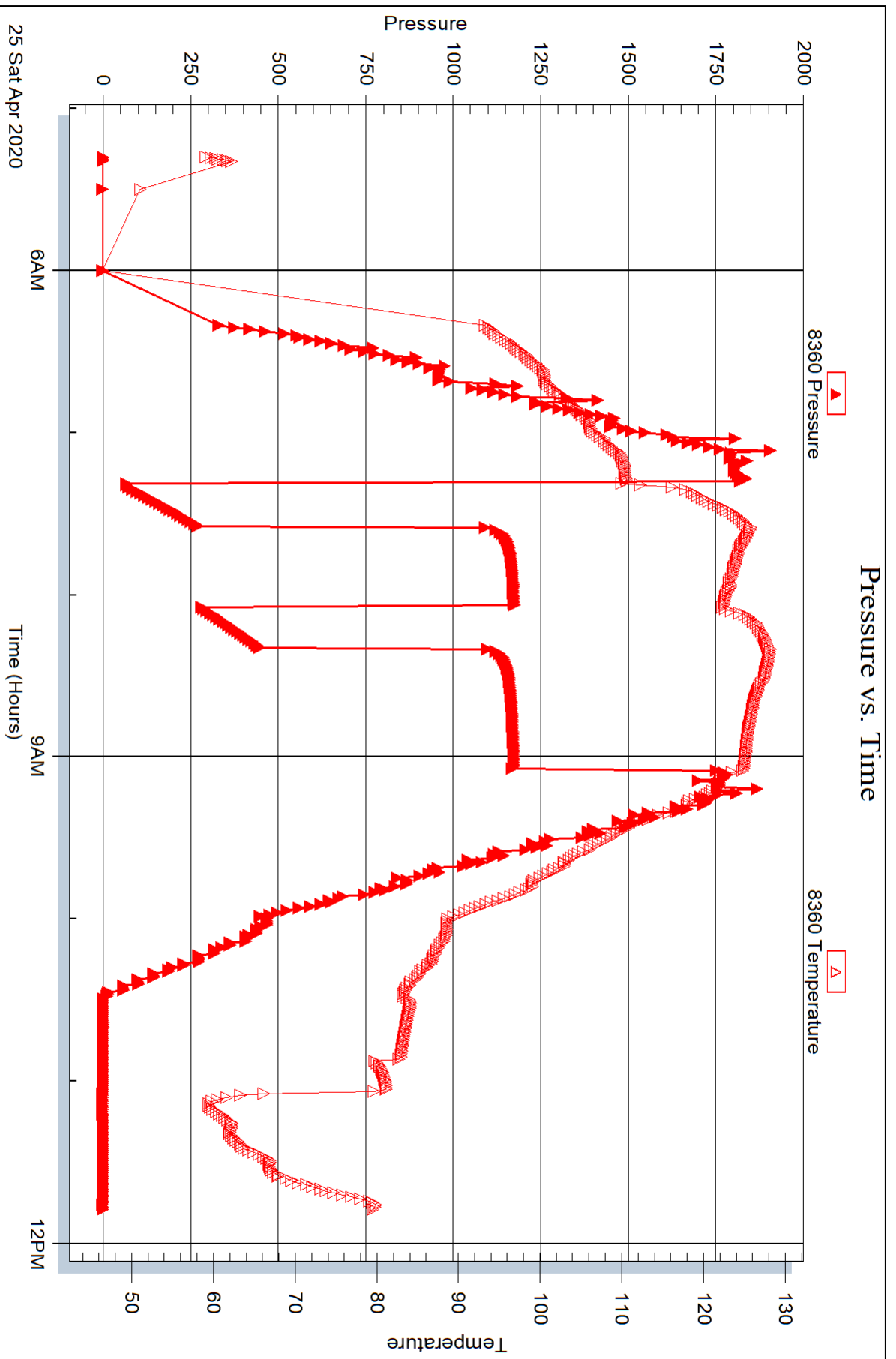
Serial #: 8360

Inside

Carmen Schmitt, Inc.

Steiger Unit #1-35

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 66860

Printed: 2020.05.04 @ 11:38:21



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Steiger Unit #1-35

35-8S-31W Thomas,KS

Start Date: 2020.04.25 @ 21:04:00

End Date: 2020.04.26 @ 04:12:45

Job Ticket #: 66861 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.05.04 @ 11:37:48

Carmen Schmitt, Inc.

35-8S-31W Thomas,KS

Steiger Unit #1-35

DST # 4

L. Topoka - Oread

2020.04.25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530
 ATTN: Brad Rine

35-8S-31W Thomas,KS

Steiger Unit #1-35

Job Ticket: 66861 **DST#: 4**
 Test Start: 2020.04.25 @ 21:04:00

GENERAL INFORMATION:

Formation: **L. Topeka - Oread**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:01:45
 Time Test Ended: 04:12:45
 Interval: **3860.00 ft (KB) To 3940.00 ft (KB) (TVD)**
 Total Depth: 3940.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Royal Fisher
 Unit No: 77
 Reference Elevations: 2973.00 ft (KB)
 2963.00 ft (CF)
 KB to GR/CF: 10.00 ft

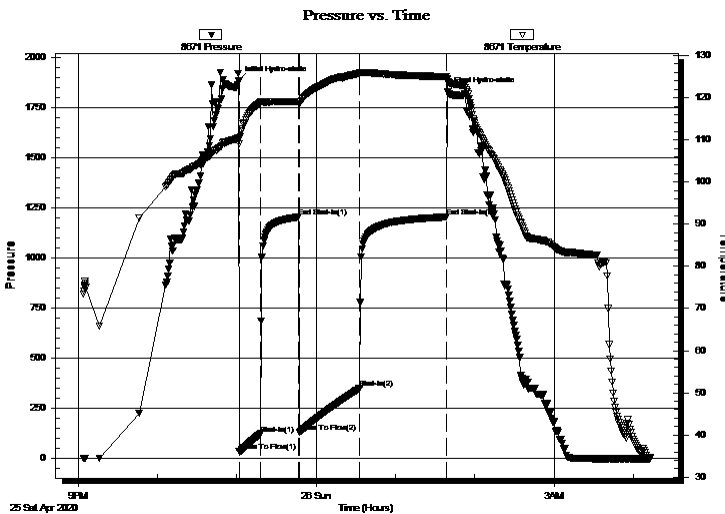
Serial #: 8671

Outside

Press@RunDepth: 350.07 psig @ 3861.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.04.25 End Date: 2020.04.26 Last Calib.: 2020.04.26
 Start Time: 21:04:05 End Time: 04:12:44 Time On Btm: 2020.04.25 @ 23:01:30
 Time Off Btm: 2020.04.26 @ 01:39:30

TEST COMMENT: 15 - IF - Blow built to B.o.B. in 10 mins.
 30 - ISI - No Return
 45 - FF - Blow built to B.o.B. in 10 mins.
 60 - FSI - No Return

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1883.05 | 110.28 | Initial Hydro-static |
| 1 | 35.32 | 109.12 | Open To Flow (1) |
| 17 | 122.63 | 118.84 | Shut-In(1) |
| 46 | 1203.62 | 119.11 | End Shut-In(1) |
| 46 | 129.26 | 118.66 | Open To Flow (2) |
| 92 | 350.07 | 125.76 | Shut-In(2) |
| 157 | 1203.79 | 125.04 | End Shut-In(2) |
| 158 | 1826.59 | 123.83 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------------------|--------------|
| 386.00 | OSMW - Oil Spots - 20% m - 80% w | 3.96 |
| 385.00 | OSMW - Oil Spots - 40% m - 60% w | 3.95 |
| | | |
| | | |
| | | |

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
| | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

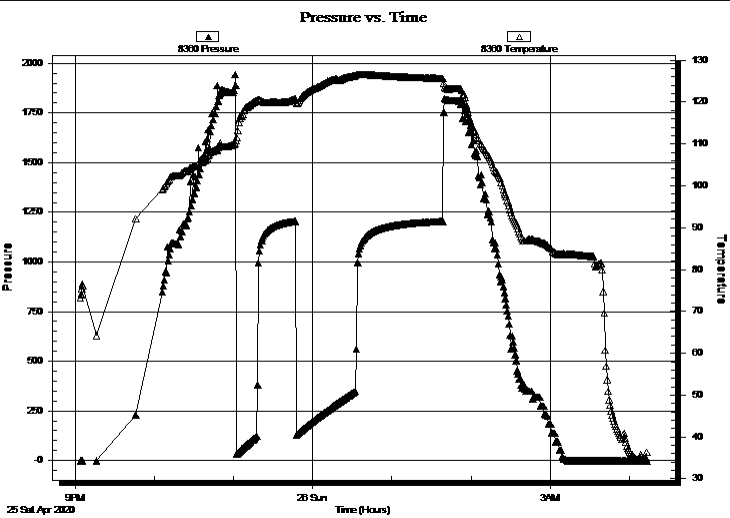
35-8S-31W Thomas,KS
Steiger Unit #1-35
Job Ticket: 66861 **DST#: 4**
Test Start: 2020.04.25 @ 21:04:00

GENERAL INFORMATION:

Formation: **L. Topeka - Oread**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 23:01:45 Tester: Royal Fisher
 Time Test Ended: 04:12:45 Unit No: 77
 Interval: **3860.00 ft (KB) To 3940.00 ft (KB) (TVD)** Reference Elevations: 2973.00 ft (KB)
 Total Depth: 3940.00 ft (KB) (TVD) 2963.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

Serial #: 8360 **Inside**
 Press@RunDepth: psig @ 3861.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.04.25 End Date: 2020.04.26 Last Calib.: 2020.04.26
 Start Time: 21:04:05 End Time: 04:12:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15 - IF - Blow built to B.o.B. in 10 mins.
 30 - ISI - No Return
 45 - FF - Blow built to B.o.B. in 10 mins.
 60 - FSI - No Return



| PRESSURE SUMMARY | | | |
|------------------|-----------------|--------------|------------|
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
| | | | |

| Recovery | | |
|-------------|----------------------------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 386.00 | OSMW - Oil Spots - 20% m - 80% w | 3.96 |
| 385.00 | OSMW - Oil Spots - 40% m - 60% w | 3.95 |
| | | |
| | | |
| | | |

| Gas Rates | | | |
|-----------|----------------|-----------------|------------------|
| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
| | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

35-8S-31W Thomas,KS
Steiger Unit #1-35
Job Ticket: 66861 **DST#: 4**
Test Start: 2020.04.25 @ 21:04:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3850.62 ft | Diameter: 3.25 inches | Volume: 39.51 bbl | Tool Weight: 2500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 56000.00 lb |
| | | | <u>Total Volume: 39.51 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 18.62 ft | | | String Weight: Initial 47000.00 lb |
| Depth to Top Packer: | 3860.00 ft | | | Final 52000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 80.00 ft | | | |
| Tool Length: | 108.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

| | | | | | |
|-----------------|-------|------|---------|---------|------------------------------------|
| Shut In Tool | 5.00 | | | 3837.00 | |
| Hydraulic tool | 5.00 | | | 3842.00 | |
| Jars | 5.00 | | | 3847.00 | |
| Safety Joint | 3.00 | | | 3850.00 | |
| Packer | 5.00 | | | 3855.00 | 28.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3860.00 | |
| Stubb | 1.00 | | | 3861.00 | |
| Recorder | 0.00 | 8360 | Inside | 3861.00 | |
| Recorder | 0.00 | 8671 | Outside | 3861.00 | |
| Perforations | 11.00 | | | 3872.00 | |
| Change Over Sub | 1.00 | | | 3873.00 | |
| Drill Pipe | 63.00 | | | 3936.00 | |
| Change Over Sub | 1.00 | | | 3937.00 | |
| Bullnose | 3.00 | | | 3940.00 | 80.00 Bottom Packers & Anchor |

Total Tool Length: 108.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

35-8S-31W Thomas,KS

PO Box 47
Great Bend, KS 67530

Steiger Unit #1-35

Job Ticket: 66861

DST#: 4

ATTN: Brad Rine

Test Start: 2020.04.25 @ 21:04:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

38000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------------------------|---------------|
| 386.00 | OSMW - Oil Spots - 20%m - 80%w | 3.961 |
| 385.00 | OSMW - Oil Spots - 40% m - 60%w | 3.950 |

Total Length: 771.00 ft Total Volume: 7.911 bbl

Num Fluid Samples: 0

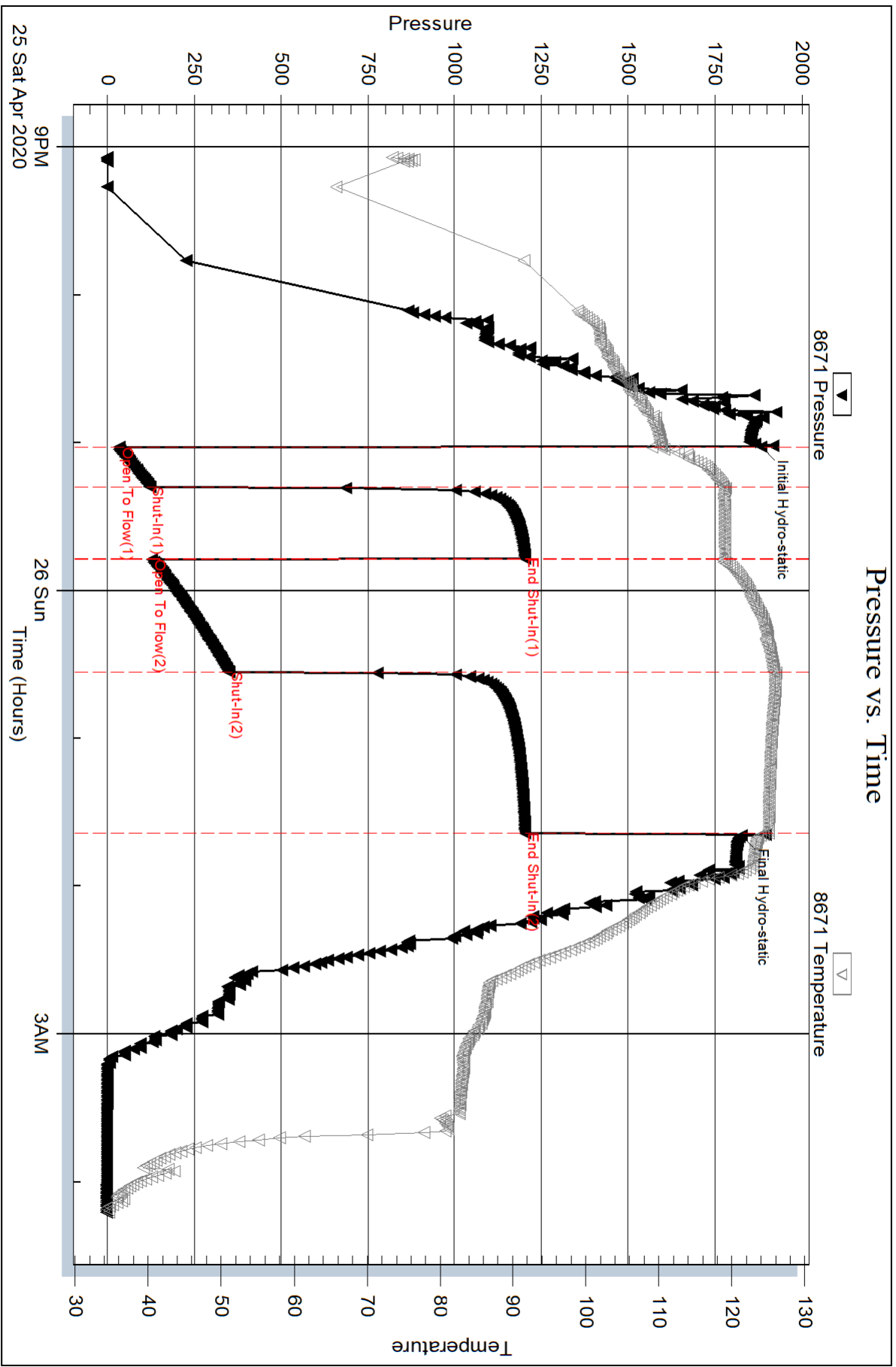
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .333 @ 40deg.



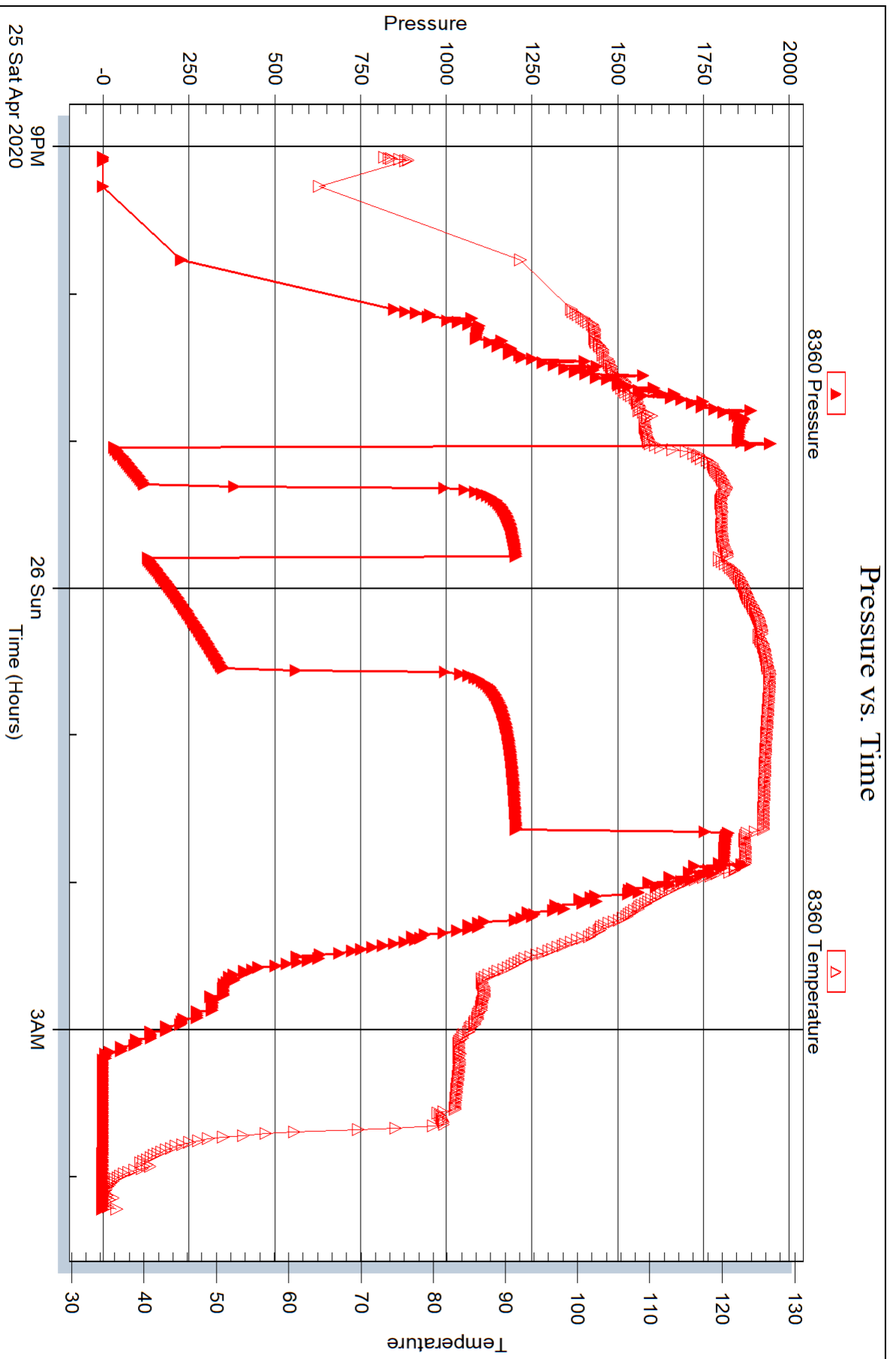
Serial #: 8360

Inside

Carmen Schmitt, Inc.

Steiger Unit #1-35

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Steiger Unit #1-35

35-8S-31W Thomas,KS

Start Date: 2020.04.26 @ 12:14:00

End Date: 2020.04.26 @ 18:52:45

Job Ticket #: 66862 DST #: 5

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.05.04 @ 11:37:21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530
 ATTN: Brad Rine

35-8S-31W Thomas,KS

Steiger Unit #1-35

Job Ticket: 66862 **DST#: 5**
 Test Start: 2020.04.26 @ 12:14:00

GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:34:00
 Time Test Ended: 18:52:45
 Interval: **3954.00 ft (KB) To 3999.00 ft (KB) (TVD)**
 Total Depth: 3999.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Royal Fisher
 Unit No: 77
 Reference Elevations: 2973.00 ft (KB)
 2963.00 ft (CF)
 KB to GR/CF: 10.00 ft

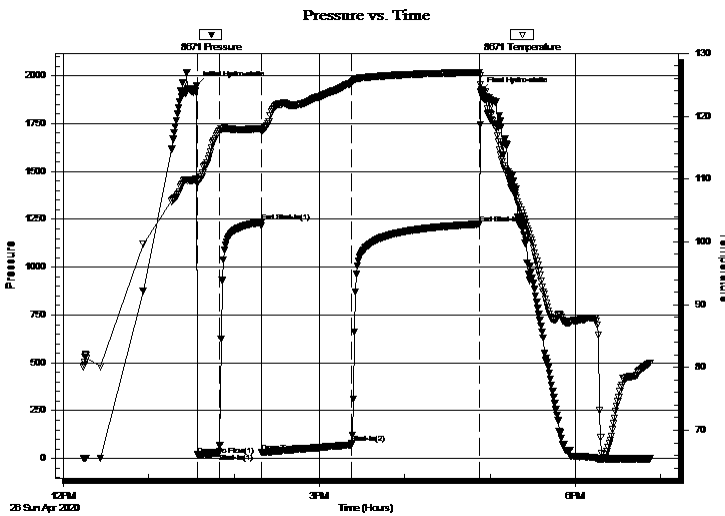
Serial #: 8671

Outside

Press@RunDepth: 77.08 psig @ 3955.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.04.26 End Date: 2020.04.26 Last Calib.: 2020.04.26
 Start Time: 12:14:05 End Time: 18:52:44 Time On Btm: 2020.04.26 @ 13:33:45
 Time Off Btm: 2020.04.26 @ 16:53:15

TEST COMMENT: 15 - IF - Surface blow built up to 3 1/2"
 30 - ISI - No Return
 60 - FF - Blow built up to 5 1/2"
 90 - FSI - No Return

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1948.05 | 110.10 | Initial Hydro-static |
| 1 | 19.68 | 109.21 | Open To Flow (1) |
| 16 | 29.13 | 117.59 | Shut-In(1) |
| 46 | 1234.61 | 118.03 | End Shut-In(1) |
| 46 | 32.97 | 117.61 | Open To Flow (2) |
| 109 | 77.08 | 125.40 | Shut-In(2) |
| 199 | 1225.32 | 126.97 | End Shut-In(2) |
| 200 | 1914.60 | 125.04 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------|--------------|
| 75.00 | MW - 20%m - 80%w | 0.77 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
| | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

35-8S-31W Thomas,KS

Steiger Unit #1-35

Job Ticket: 66862

DST#: 5

Test Start: 2020.04.26 @ 12:14:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:34:00

Time Test Ended: 18:52:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 77

Interval: **3954.00 ft (KB) To 3999.00 ft (KB) (TVD)**

Total Depth: 3999.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2973.00 ft (KB)

2963.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8360

Inside

Press@RunDepth: psig @ 3955.00 ft (KB)

Start Date: 2020.04.26

End Date:

Start Time: 12:14:05

End Time:

Capacity: 8000.00 psig

Last Calib.:

2020.04.26

Time On Btm:

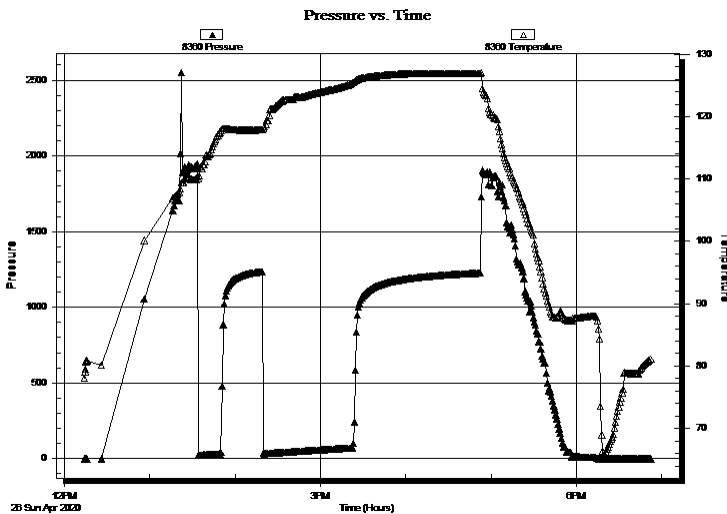
Time Off Btm:

TEST COMMENT: 15 - IF - Surface blow built up to 3 1/2"

30 - ISI - No Return

60 - FF - Blow built up to 5 1/2"

90 - FSI - No Return



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
| | | | |
| | | | |
| | | | |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------|--------------|
| 75.00 | MW - 20%m - 80%w | 0.77 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
| | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

35-8S-31W Thomas,KS
Steiger Unit #1-35
Job Ticket: 66862 **DST#: 5**
Test Start: 2020.04.26 @ 12:14:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3941.17 ft | Diameter: 3.25 inches | Volume: 40.44 bbl | Tool Weight: 2500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 56000.00 lb |
| | | | <u>Total Volume: 40.44 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 20.17 ft | | | String Weight: Initial 47000.00 lb |
| Depth to Top Packer: | 3954.00 ft | | | Final 50000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 45.00 ft | | | |
| Tool Length: | 78.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|-------------------------|--------------------|-------------------|-----------------|-------------------|-----------------------|
|-------------------------|--------------------|-------------------|-----------------|-------------------|-----------------------|

| | | | | | |
|-----------------|-------|------|---------|---------|------------------------------------|
| Shut In Tool | 5.00 | | | 3926.00 | |
| Hydraulic tool | 5.00 | | | 3931.00 | |
| EM Tool | 5.00 | | | 3936.00 | |
| Jars | 5.00 | | | 3941.00 | |
| Safety Joint | 3.00 | | | 3944.00 | |
| Packer | 5.00 | | | 3949.00 | 33.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3954.00 | |
| Stubb | 1.00 | | | 3955.00 | |
| Recorder | 0.00 | 8360 | Inside | 3955.00 | |
| Recorder | 0.00 | 8671 | Outside | 3955.00 | |
| Perforations | 8.00 | | | 3963.00 | |
| Change Over Sub | 1.00 | | | 3964.00 | |
| Drill Pipe | 31.00 | | | 3995.00 | |
| Change Over Sub | 1.00 | | | 3996.00 | |
| Bullnose | 3.00 | | | 3999.00 | 45.00 Bottom Packers & Anchor |

Total Tool Length: 78.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

35-8S-31W Thomas,KS
Steiger Unit #1-35
Job Ticket: 66862 **DST#: 5**
Test Start: 2020.04.26 @ 12:14:00

Mud and Cushion Information

| | | | |
|----------------------------------|----------------------------|-----------------|-----------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | 55000 ppm |
| Viscosity: 66.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 9.56 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 3700.00 ppm | | | |
| Filter Cake: 1.00 inches | | | |

Recovery Information

Recovery Table

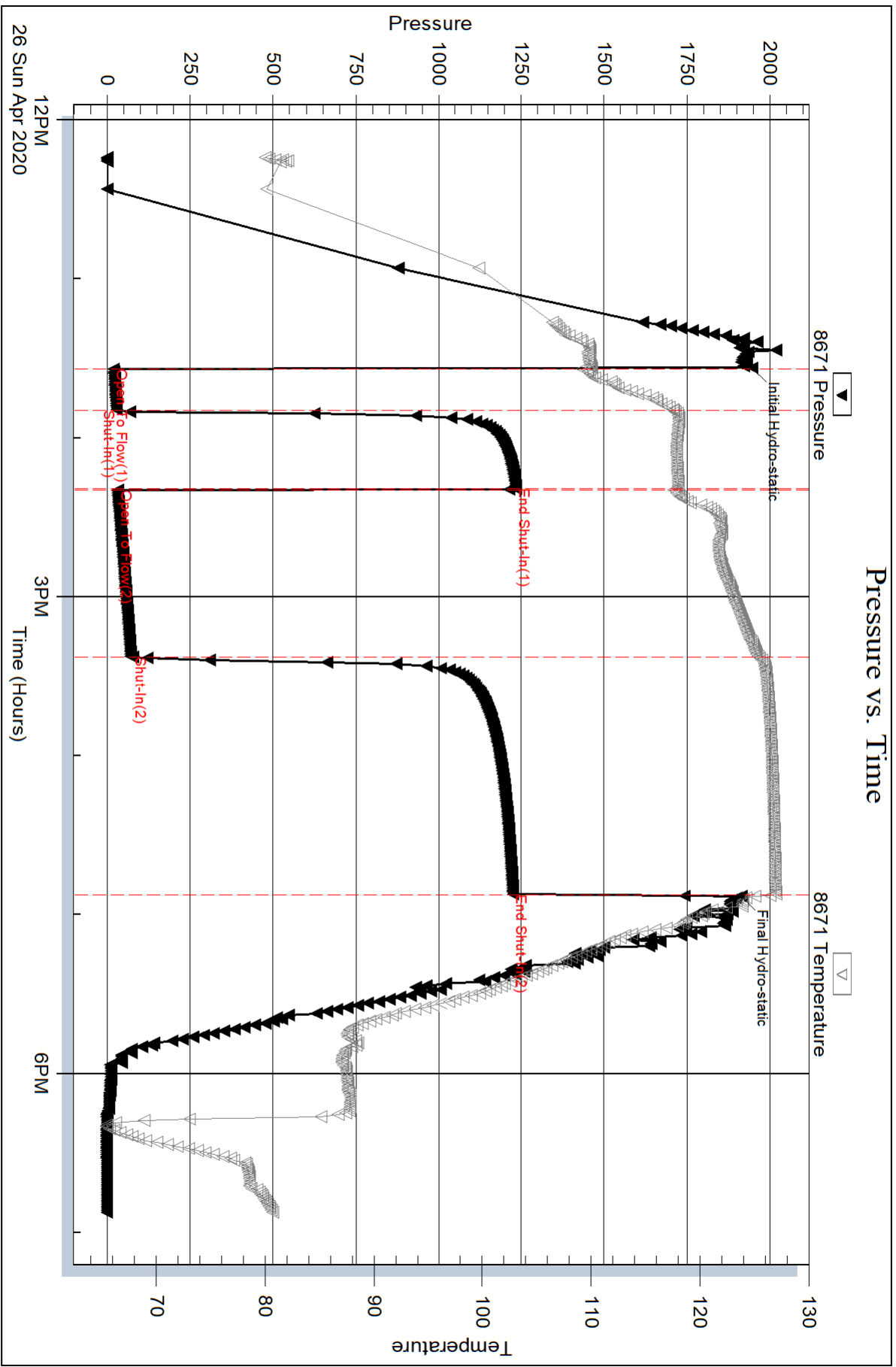
| Length ft | Description | Volume bbl |
|--------------|------------------|---------------|
| 75.00 | MW - 20%m - 80%w | 0.770 |

Total Length: 75.00 ft Total Volume: 0.770 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: .155 @ 62 deg.



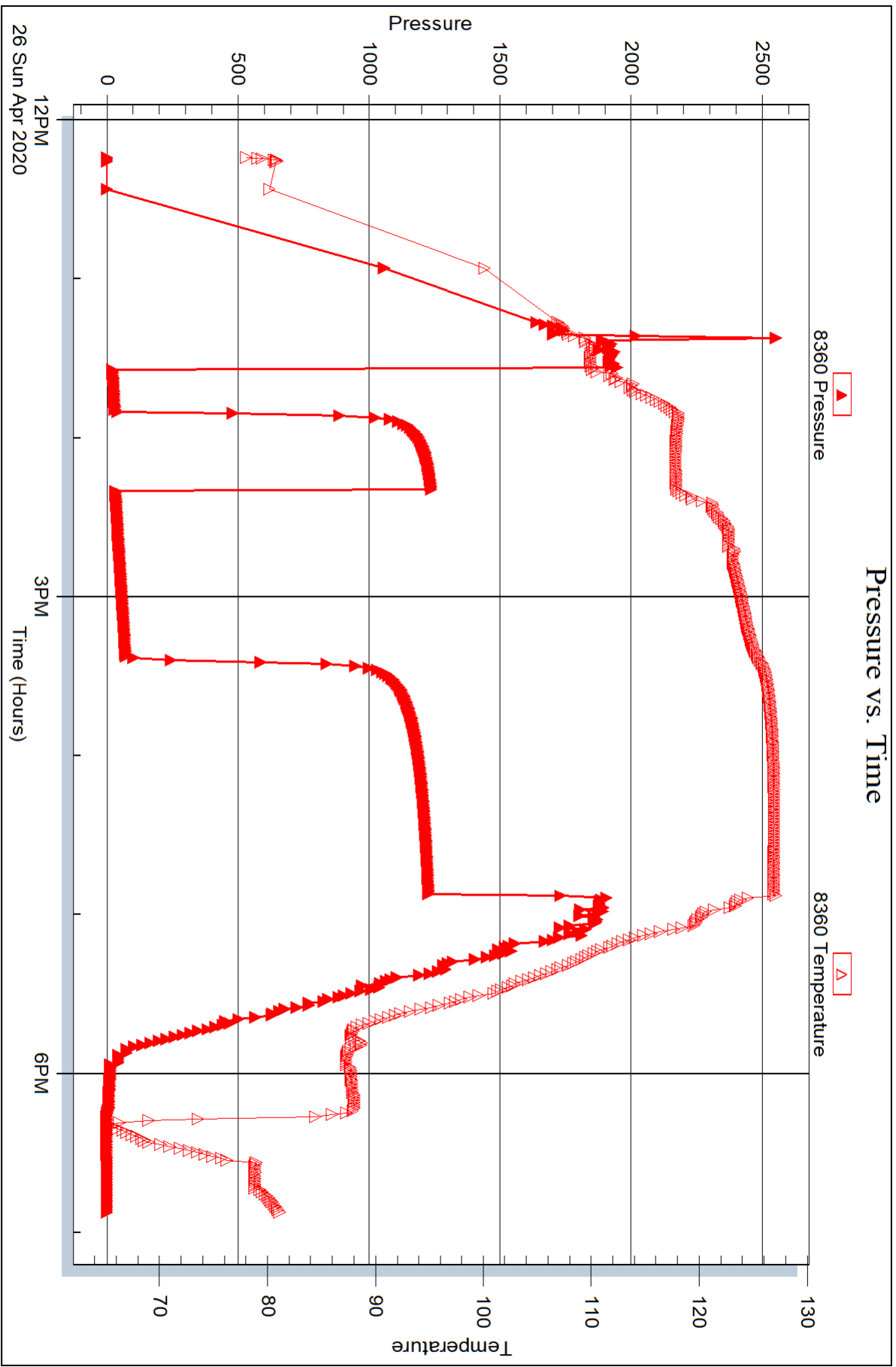
Serial #: 8360

Inside

Carmen Schmitt, Inc.

Steiger Unit #1-35

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 66862

Printed: 2020.05.04 @ 11:37:22



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Steiger Unit #1-35

35-8S-31W Thomas,KS

Start Date: 2020.04.27 @ 01:27:00

End Date: 2020.04.27 @ 09:05:15

Job Ticket #: 66863 DST #: 6

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.05.04 @ 11:36:56

Carmen Schmitt, Inc.
35-8S-31W Thomas,KS
Steiger Unit #1-35
DST # 6
LKC A
2020.04.27



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530
 ATTN: Brad Rine

35-8S-31W Thomas,KS

Steiger Unit #1-35

Job Ticket: 66863 **DST#: 6**
 Test Start: 2020.04.27 @ 01:27:00

GENERAL INFORMATION:

Formation: **LKC A**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:32:30
 Time Test Ended: 09:05:15
 Interval: **3997.00 ft (KB) To 4025.00 ft (KB) (TVD)**
 Total Depth: 4025.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Royal Fisher
 Unit No: 77
 Reference Elevations: 2973.00 ft (KB)
 2963.00 ft (CF)
 KB to GR/CF: 10.00 ft

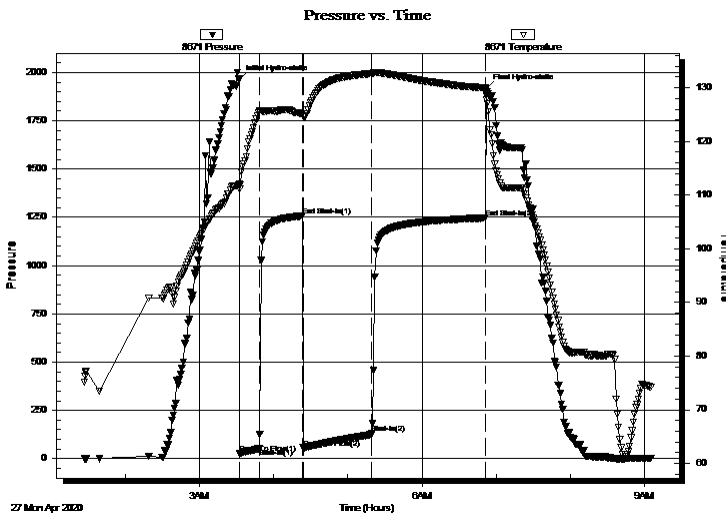
Serial #: 8671

Outside

Press@RunDepth: 129.39 psig @ 3998.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.04.27 End Date: 2020.04.27 Last Calib.: 2020.04.27
 Start Time: 01:27:05 End Time: 09:05:14 Time On Btm: 2020.04.27 @ 03:32:15
 Time Off Btm: 2020.04.27 @ 06:52:00

TEST COMMENT: 15 - IF - Blow built up to 3 1/2"
 30 - ISI - No Return
 60 - FF - Blow built to B.O.B. in 40 mins.
 90 - FSI - No Return

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1963.18 | 112.17 | Initial Hydro-static |
| 1 | 25.48 | 111.21 | Open To Flow (1) |
| 16 | 52.67 | 125.59 | Shut-In(1) |
| 51 | 1257.29 | 125.21 | End Shut-In(1) |
| 52 | 55.64 | 124.71 | Open To Flow (2) |
| 107 | 129.39 | 132.64 | Shut-In(2) |
| 199 | 1246.52 | 129.94 | End Shut-In(2) |
| 200 | 1917.99 | 127.85 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------------------------|--------------|
| 10.00 | Free Oil - 100% | 0.10 |
| 213.00 | OScumMW - Scum of Oil - 15% m - 85% w | 2.19 |
| 0.00 | 95' - GIP | 0.00 |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
| | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

35-8S-31W Thomas,KS

Steiger Unit #1-35

Job Ticket: 66863

DST#: 6

Test Start: 2020.04.27 @ 01:27:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3972.39 ft | Diameter: 3.25 inches | Volume: 40.76 bbl | Tool Weight: 2500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 62000.00 lb |
| | | | <u>Total Volume: 40.76 bbl</u> | Tool Chased 3.00 ft |
| Drill Pipe Above KB: | 8.39 ft | | | String Weight: Initial 49000.00 lb |
| Depth to Top Packer: | 3997.00 ft | | | Final 50000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 28.00 ft | | | |
| Tool Length: | 61.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

| | | | | | |
|----------------|-------|------|---------|---------|-------------------------------|
| Shut In Tool | 5.00 | | | 3969.00 | |
| Hydraulic tool | 5.00 | | | 3974.00 | |
| EM Tool | 5.00 | | | 3979.00 | |
| Jars | 5.00 | | | 3984.00 | |
| Safety Joint | 3.00 | | | 3987.00 | |
| Packer | 5.00 | | | 3992.00 | 33.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3997.00 | |
| Stubb | 1.00 | | | 3998.00 | |
| Recorder | 0.00 | 8360 | Inside | 3998.00 | |
| Recorder | 0.00 | 8671 | Outside | 3998.00 | |
| Perforations | 24.00 | | | 4022.00 | |
| Bullnose | 3.00 | | | 4025.00 | 28.00 Bottom Packers & Anchor |

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

35-8S-31W Thomas,KS
Steiger Unit #1-35
Job Ticket: 66863 **DST#: 6**
Test Start: 2020.04.27 @ 01:27:00

Mud and Cushion Information

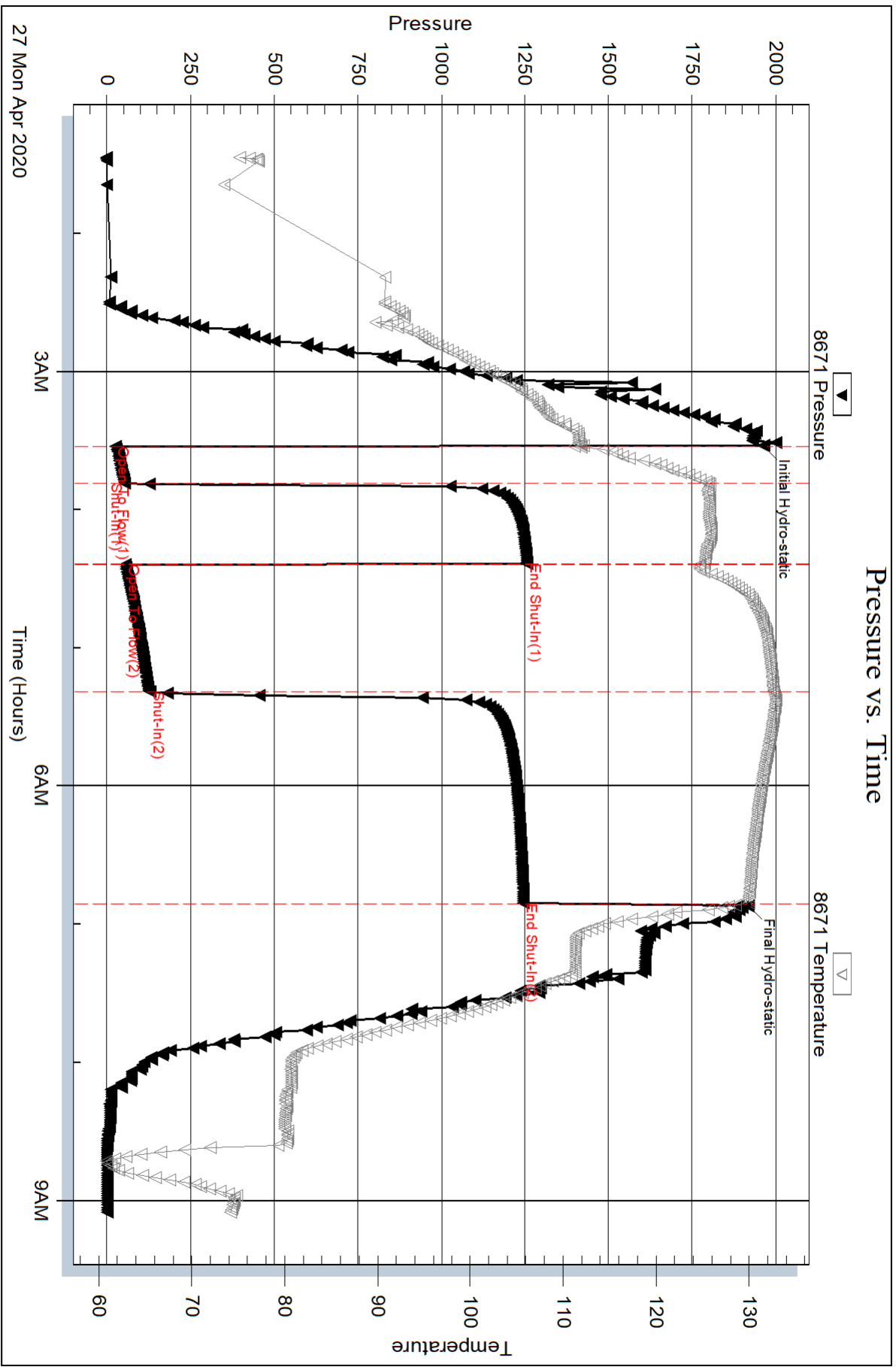
| | | |
|----------------------------------|----------------------------|---------------------------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: 35 deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: 36900 ppm |
| Viscosity: 66.00 sec/qt | Cushion Volume: bbl | |
| Water Loss: 9.56 in ³ | Gas Cushion Type: | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | |
| Salinity: 3700.00 ppm | | |
| Filter Cake: 1.00 inches | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------------------------|---------------|
| 10.00 | Free Oil - 100%o | 0.103 |
| 213.00 | OScumMW - Scum of Oil - 15%m - 85%w | 2.186 |
| 0.00 | 95' - GIP | 0.000 |

Total Length: 223.00 ft Total Volume: 2.289 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: .210 @ 60
 Gravity - 35@60 deg.







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Steiger Unit #1-35

35-8S-31W Thomas,KS

Start Date: 2020.04.27 @ 15:28:00

End Date: 2020.04.28 @ 00:00:45

Job Ticket #: 66864 DST #: 7

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.05.04 @ 11:36:23



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530
 ATTN: Brad Rine

35-8S-31W Thomas,KS

Steiger Unit #1-35

Job Ticket: 66864 **DST#: 7**
 Test Start: 2020.04.27 @ 15:28:00

GENERAL INFORMATION:

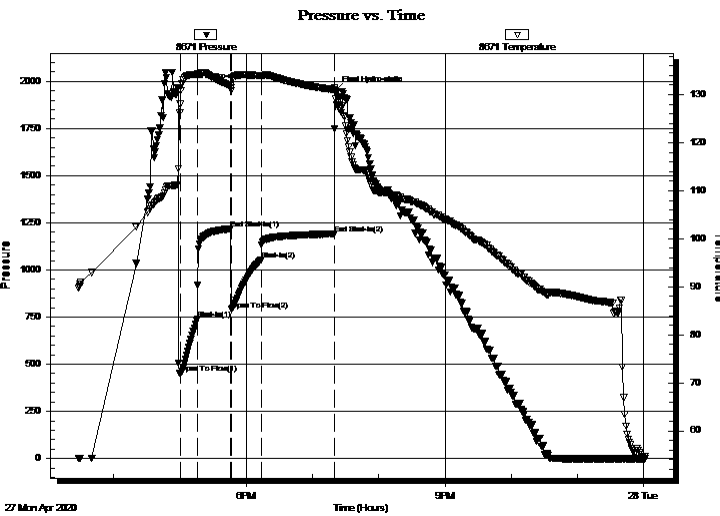
Formation: **LKC C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:00:00
 Time Test Ended: 00:00:45
 Interval: **4019.00 ft (KB) To 4050.00 ft (KB) (TVD)**
 Total Depth: 4050.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Royal Fisher
 Unit No: #77
 Reference Elevations: 2973.00 ft (KB)
 2963.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8671

Outside

Press@RunDepth: 1054.10 psig @ 4020.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.04.27 End Date: 2020.04.28 Last Calib.: 2020.04.28
 Start Time: 15:28:05 End Time: 00:00:45 Time On Btm: 2020.04.27 @ 16:58:00
 Time Off Btm: 2020.04.27 @ 19:20:45

TEST COMMENT: 15 - IF - Blow built to B.o.B. in 1 min.
 30 - ISI - Return built to B.o.B. in 5 mins.
 30 - FF - Blow built to B.o.B. in 1 min. and had Gas to surface in 12 mins.
 60 - FSI - Return built to B.o.B. in 7 mins. then slowly died off to 8"



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1968.37 | 111.28 | Initial Hydro-static |
| 2 | 450.90 | 128.05 | Open To Flow (1) |
| 18 | 738.57 | 134.22 | Shut-In(1) |
| 48 | 1217.14 | 131.78 | End Shut-In(1) |
| 49 | 788.89 | 130.81 | Open To Flow (2) |
| 76 | 1054.10 | 133.91 | Shut-In(2) |
| 142 | 1191.01 | 131.03 | End Shut-In(2) |
| 143 | 1948.50 | 129.06 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 2944.00 | GO - 30%g - 70%o | 30.21 |
| 0.00 | 1008' - GIP - 100%g | 0.00 |
| | | |
| | | |
| | | |

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
| | | |



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

35-8S-31W Thomas,KS

Steiger Unit #1-35

Job Ticket: 66864 **DST#: 7**
Test Start: 2020.04.27 @ 15:28:00

GENERAL INFORMATION:

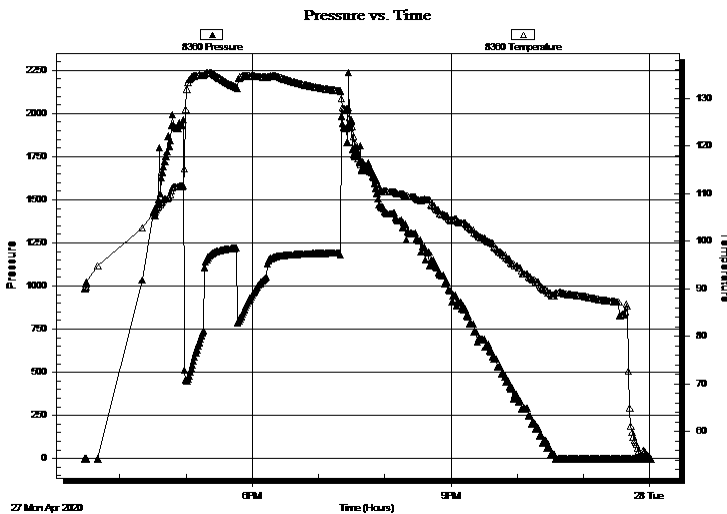
| | | |
|---|----------------------|---|
| Formation: LKC C | | Test Type: Conventional Bottom Hole (Initial) |
| Deviated: No Whipstock: ft (KB) | | Tester: Royal Fisher |
| Time Tool Opened: 17:00:00 | | Unit No: #77 |
| Time Test Ended: 00:00:45 | | |
| Interval: 4019.00 ft (KB) To 4050.00 ft (KB) (TVD) | | Reference Elevations: 2973.00 ft (KB) |
| Total Depth: 4050.00 ft (KB) (TVD) | | 2963.00 ft (CF) |
| Hole Diameter: 7.88 inches | Hole Condition: Poor | KB to GR/CF: 10.00 ft |

Serial #: 8360

Inside

| | |
|--|-------------------------|
| Press@RunDepth: psig @ 4020.00 ft (KB) | Capacity: 8000.00 psig |
| Start Date: 2020.04.27 End Date: 2020.04.28 | Last Calib.: 2020.04.28 |
| Start Time: 15:28:05 End Time: 00:01:00 | Time On Btm: |
| | Time Off Btm: |

TEST COMMENT: 15 - IF - Blow built to B.o.B. in 1 min.
30 - ISI - Return built to B.o.B. in 5 mins.
30 - FF - Blow built to B.o.B. in 1 min. and had Gas to surface in 12 mins.
60 - FSI - Return built to B.o.B. in 7 mins. then slowly died off to 8"



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 2944.00 | GO - 30%g - 70%o | 30.21 |
| 0.00 | 1008' - GIP - 100%g | 0.00 |
| | | |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
| | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

35-8S-31W Thomas,KS
Steiger Unit #1-35
Job Ticket: 66864 **DST#: 7**
Test Start: 2020.04.27 @ 15:28:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4004.76 ft | Diameter: 3.25 inches | Volume: 41.09 bbl | Tool Weight: 2500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 64000.00 lb |
| | | | <u>Total Volume: 41.09 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 18.76 ft | | | String Weight: Initial 50000.00 lb |
| Depth to Top Packer: | 4019.00 ft | | | Final 58000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 31.00 ft | | | |
| Tool Length: | 64.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|-------------------------|--------------------|-------------------|-----------------|-------------------|-----------------------|
|-------------------------|--------------------|-------------------|-----------------|-------------------|-----------------------|

| | | | | | |
|----------------|-------|------|---------|---------|------------------------------------|
| Shut In Tool | 5.00 | | | 3991.00 | |
| Hydraulic tool | 5.00 | | | 3996.00 | |
| EM Tool | 5.00 | | | 4001.00 | |
| Jars | 5.00 | | | 4006.00 | |
| Safety Joint | 3.00 | | | 4009.00 | |
| Packer | 5.00 | | | 4014.00 | 33.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 4019.00 | |
| Stubb | 1.00 | | | 4020.00 | |
| Recorder | 0.00 | 8360 | Inside | 4020.00 | |
| Recorder | 0.00 | 8671 | Outside | 4020.00 | |
| Perforations | 27.00 | | | 4047.00 | |
| Bullnose | 3.00 | | | 4050.00 | 31.00 Bottom Packers & Anchor |

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

35-8S-31W Thomas,KS

PO Box 47
Great Bend, KS 67530

Steiger Unit #1-35

Job Ticket: 66864

DST#: 7

ATTN: Brad Rine

Test Start: 2020.04.27 @ 15:28:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.36 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------------|---------------|
| 2944.00 | GO - 30%g - 70%o | 30.207 |
| 0.00 | 1008' - GIP - 100%g | 0.000 |

Total Length: 2944.00 ft Total Volume: 30.207 bbl

Num Fluid Samples: 0

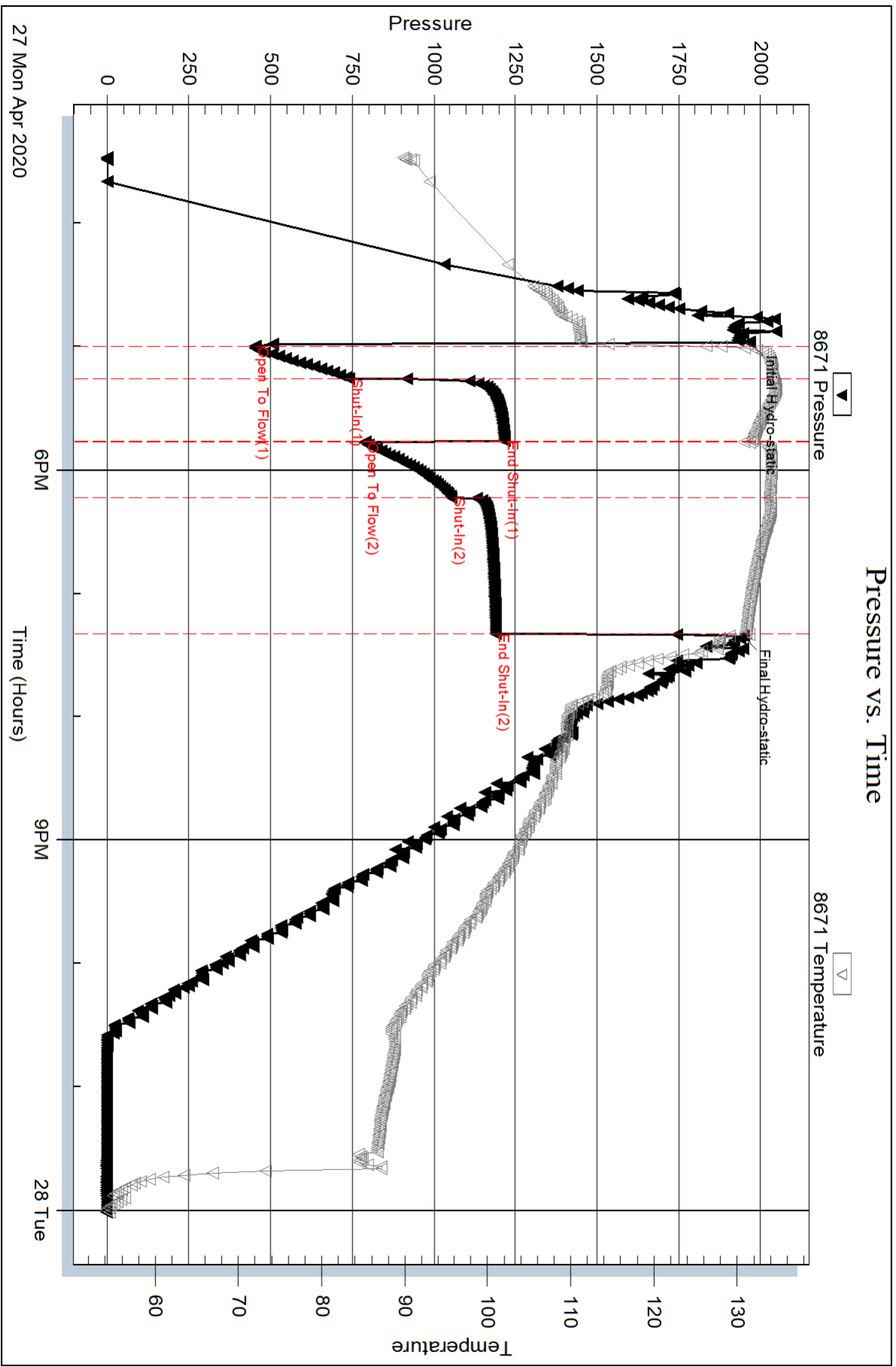
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 36



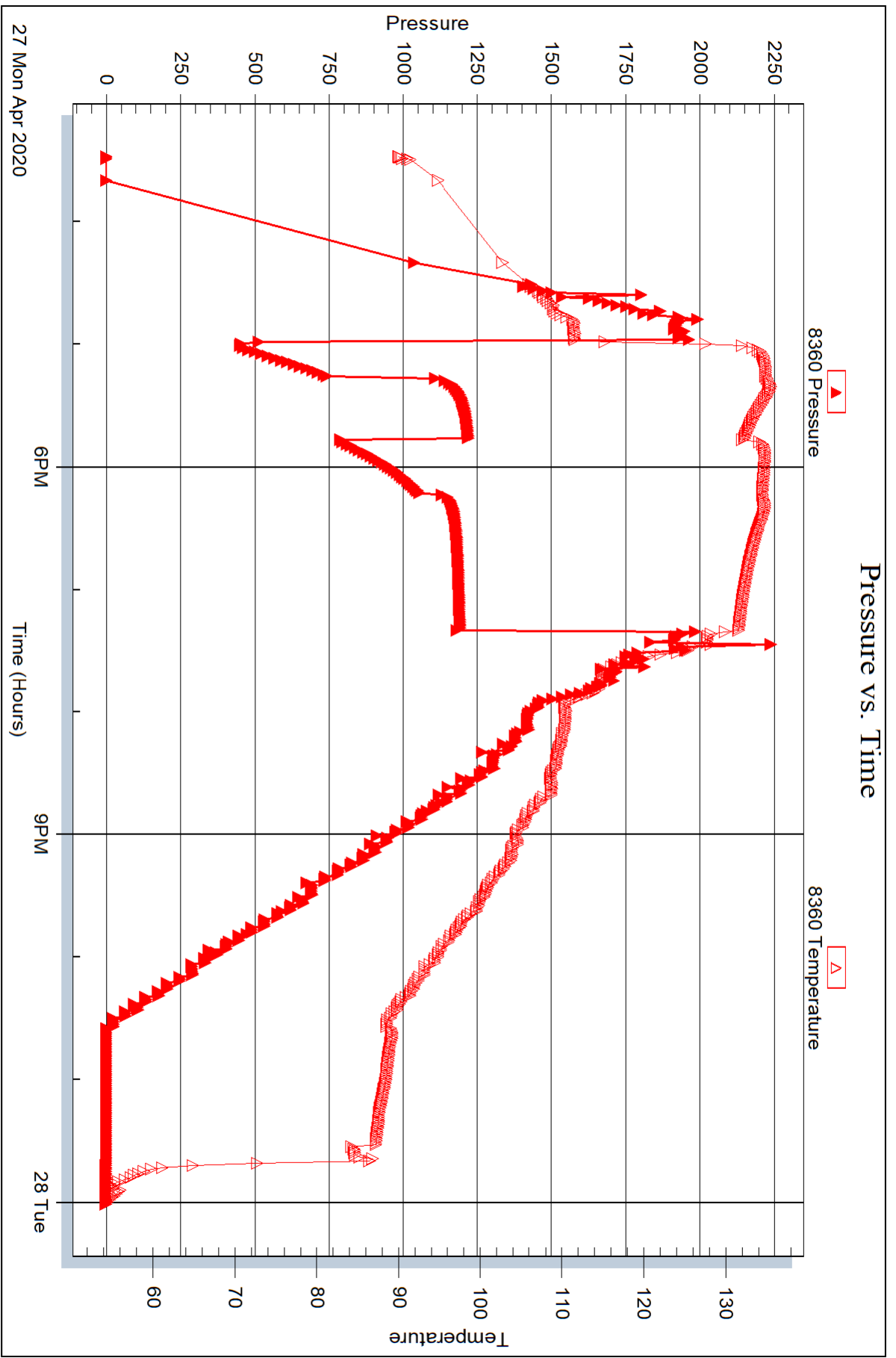
Serial #: 8360

Inside

Carmen Schmitt, Inc.

Steiger Unit #1-35

DST Test Number: 7





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Steiger Unit #1-35

35-8S-31W Thomas,KS

Start Date: 2020.04.28 @ 07:40:00

End Date: 2020.04.28 @ 13:51:00

Job Ticket #: 66865 DST #: 8

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.05.04 @ 11:35:51

Carmen Schmitt, Inc.
35-8S-31W Thomas,KS
Steiger Unit #1-35
DST # 8
LKC D
2020.04.28



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

35-8S-31W Thomas,KS

Steiger Unit #1-35

Job Ticket: 66865 **DST#: 8**
Test Start: 2020.04.28 @ 07:40:00

GENERAL INFORMATION:

Formation: **LKC D**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:08:30
Time Test Ended: 13:51:00
Interval: **4050.00 ft (KB) To 4063.00 ft (KB) (TVD)**
Total Depth: 4063.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Royal Fisher
Unit No: 77
Reference Elevations: 2973.00 ft (KB)
2963.00 ft (CF)
KB to GR/CF: 10.00 ft

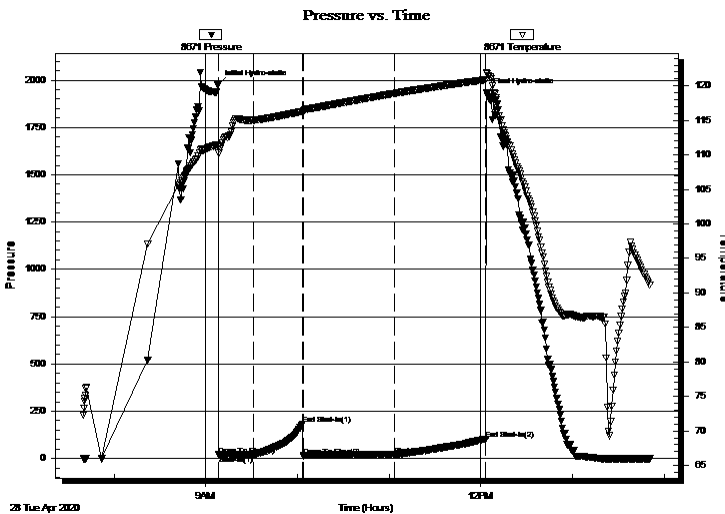
Serial #: 8671

Outside

Press@RunDepth: 19.48 psig @ 4051.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2020.04.28 End Date: 2020.04.28 Last Calib.: 2020.04.28
Start Time: 07:40:05 End Time: 13:50:59 Time On Btm: 2020.04.28 @ 09:08:15
Time Off Btm: 2020.04.28 @ 12:03:45

TEST COMMENT: 15 - IF - Weak surface blow started 12 mins into and stayed at a weak blow
30 - ISI - No Return
45 - FF - Blow built up to 1 3/4" then died off to 1"
60 - FSI - No Return

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1977.99 | 111.30 | Initial Hydro-static |
| 1 | 19.25 | 110.25 | Open To Flow (1) |
| 23 | 18.73 | 115.02 | Shut-In(1) |
| 55 | 181.73 | 116.30 | End Shut-In(1) |
| 56 | 12.71 | 116.33 | Open To Flow (2) |
| 116 | 19.48 | 118.89 | Shut-In(2) |
| 175 | 102.82 | 120.88 | End Shut-In(2) |
| 176 | 1934.79 | 121.94 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------|--------------|
| 31.00 | OCM - 30%o - 70%m | 0.32 |
| 0.00 | 31' - GIP | 0.00 |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
| | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

35-8S-31W Thomas,KS

PO Box 47
Great Bend, KS 67530

Steiger Unit #1-35

Job Ticket: 66865

DST#: 8

ATTN: Brad Rine

Test Start: 2020.04.28 @ 07:40:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4036.00 ft | Diameter: 3.25 inches | Volume: 41.41 bbl | Tool Weight: 2500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 60000.00 lb |
| | | | <u>Total Volume: 41.41 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 19.00 ft | | | String Weight: Initial 50000.00 lb |
| Depth to Top Packer: | 4050.00 ft | | | Final 50000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 13.00 ft | | | |
| Tool Length: | 46.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

| | | | | | |
|----------------|------|------|---------|---------|-------------------------------|
| Shut In Tool | 5.00 | | | 4022.00 | |
| Hydraulic tool | 5.00 | | | 4027.00 | |
| EM Tool | 5.00 | | | 4032.00 | |
| Jars | 5.00 | | | 4037.00 | |
| Safety Joint | 3.00 | | | 4040.00 | |
| Packer | 5.00 | | | 4045.00 | 33.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 4050.00 | |
| Stubb | 1.00 | | | 4051.00 | |
| Recorder | 0.00 | 8360 | Inside | 4051.00 | |
| Recorder | 0.00 | 8671 | Outside | 4051.00 | |
| Perforations | 9.00 | | | 4060.00 | |
| Bullnose | 3.00 | | | 4063.00 | 13.00 Bottom Packers & Anchor |

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

35-8S-31W Thomas,KS

PO Box 47
Great Bend, KS 67530

Steiger Unit #1-35

Job Ticket: 66865

DST#: 8

ATTN: Brad Rine

Test Start: 2020.04.28 @ 07:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------|---------------|
| 31.00 | OCM - 30%o - 70%m | 0.318 |
| 0.00 | 31' - GIP | 0.000 |

Total Length: 31.00 ft Total Volume: 0.318 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

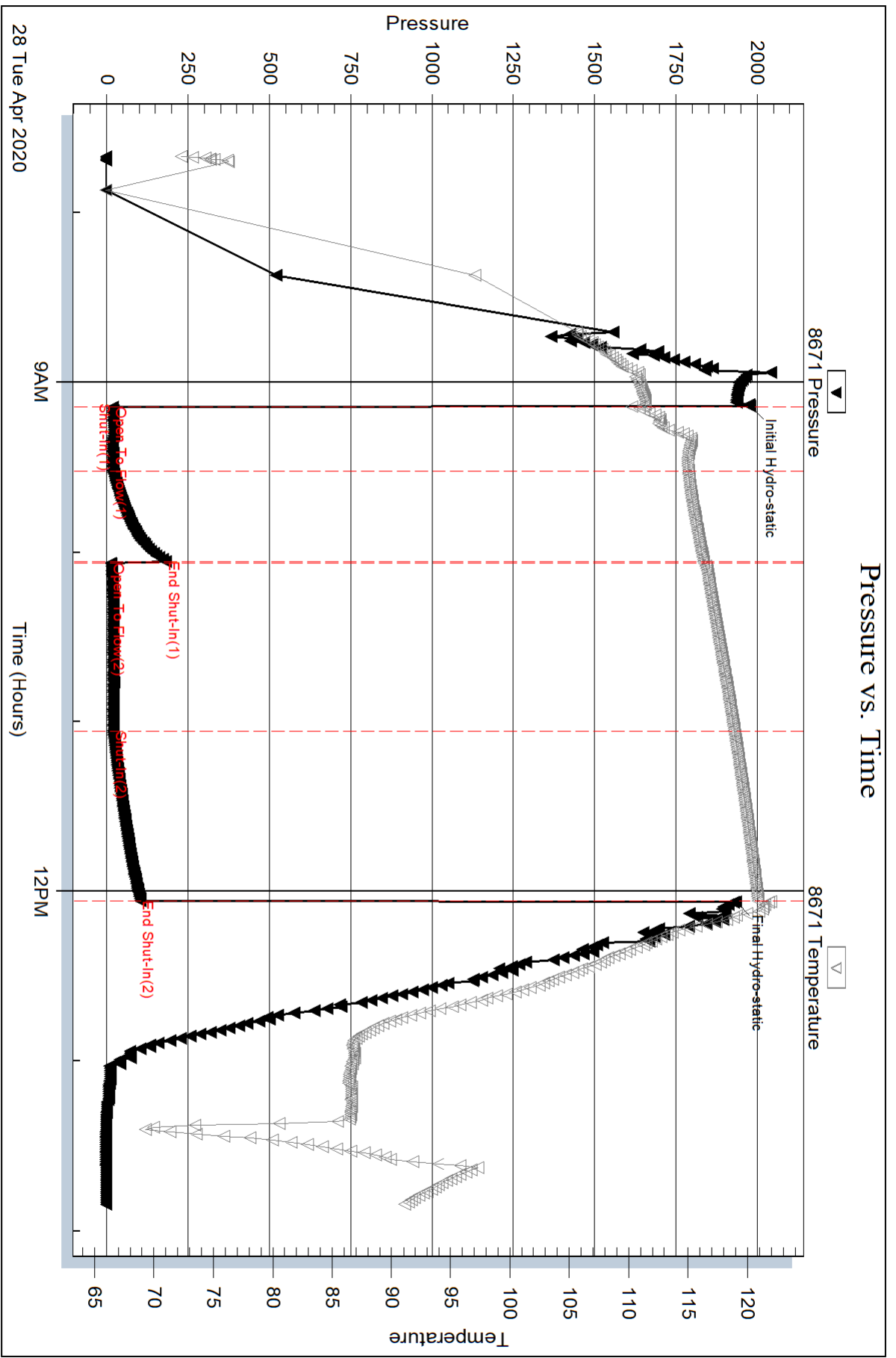
Recovery Comments:

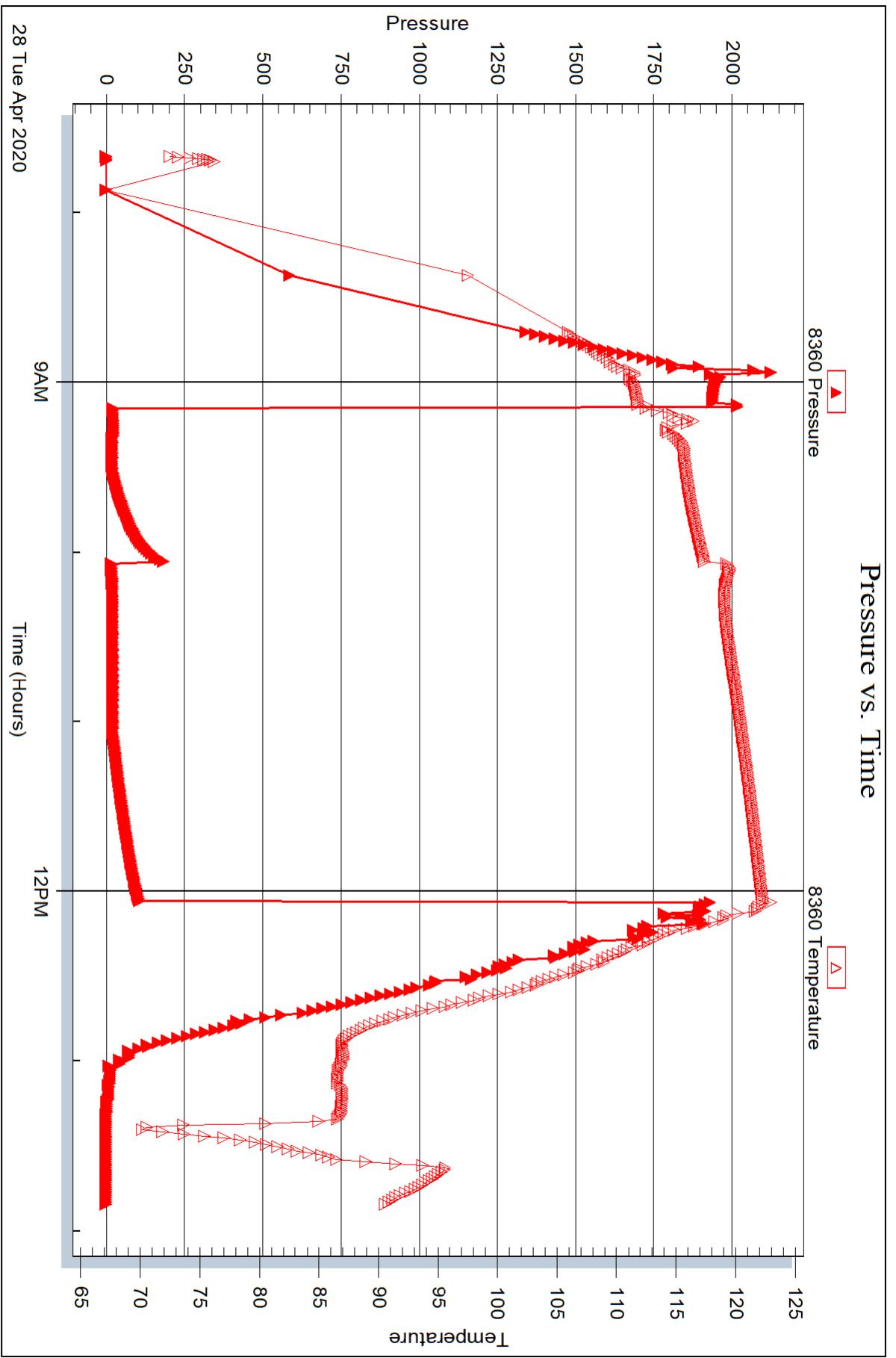
Serial #: 8671

Outside Carmen Schmitt, Inc.

Steiger Unit #1-35

DST Test Number: 8







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Steiger Unit #1-35

35-8S-31W Thomas,KS

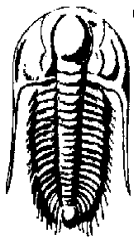
Start Date: 2020.04.28 @ 22:30:00

End Date: 2020.04.29 @ 04:35:00

Job Ticket #: 66866 DST #: 9

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.05.04 @ 11:35:25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530
 ATTN: Brad Rine

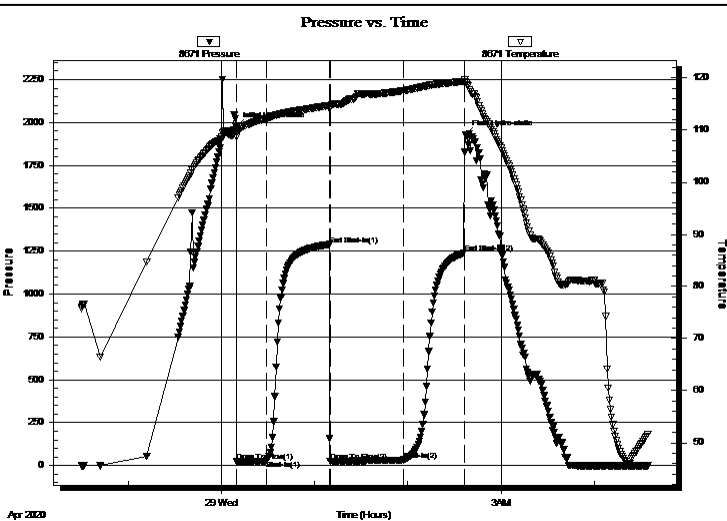
35-8S-31W Thomas,KS
Steiger Unit #1-35
 Job Ticket: 66866 **DST#: 9**
 Test Start: 2020.04.28 @ 22:30:00

GENERAL INFORMATION:

Formation: **LKC E**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:09:45 Tester: Royal Fisher
 Time Test Ended: 04:35:00 Unit No: 77
 Interval: **4060.00 ft (KB) To 4082.00 ft (KB) (TVD)** Reference Elevations: 2973.00 ft (KB)
 Total Depth: 4082.00 ft (KB) (TVD) 2963.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

Serial #: 8671 Outside
 Press@RunDepth: 32.48 psig @ 4061.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.04.28 End Date: 2020.04.29 Last Calib.: 2020.04.29
 Start Time: 22:30:05 End Time: 04:34:59 Time On Btm: 2020.04.29 @ 00:09:30
 Time Off Btm: 2020.04.29 @ 02:37:15

TEST COMMENT: 15 - IF - blow built to 1" then died to 3/4"
 30 - ISI - No Return
 30 - FF - blow built to a weak blow
 30 - FSI - No Return



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1976.95 | 109.98 | Initial Hydro-static |
| 1 | 24.16 | 108.67 | Open To Flow (1) |
| 20 | 31.28 | 112.29 | Shut-In(1) |
| 60 | 1288.45 | 114.73 | End Shut-In(1) |
| 61 | 24.51 | 114.44 | Open To Flow (2) |
| 108 | 32.48 | 117.59 | Shut-In(2) |
| 147 | 1238.45 | 119.37 | End Shut-In(2) |
| 148 | 1930.39 | 119.24 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------|--------------|
| 30.00 | OCM - 10%o - 90%m | 0.31 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
| | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

35-8S-31W Thomas,KS

Steiger Unit #1-35

Job Ticket: 66866

DST#: 9

Test Start: 2020.04.28 @ 22:30:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4035.00 ft | Diameter: 3.25 inches | Volume: 41.40 bbl | Tool Weight: 2500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 55000.00 lb |
| | | | <u>Total Volume: 41.40 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 8.00 ft | | | String Weight: Initial 49000.00 lb |
| Depth to Top Packer: | 4060.00 ft | | | Final 49000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 22.00 ft | | | |
| Tool Length: | 55.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

| | | | | | |
|----------------|-------|------|---------|---------|-------------------------------|
| Shut In Tool | 5.00 | | | 4032.00 | |
| Hydraulic tool | 5.00 | | | 4037.00 | |
| EM Tool | 5.00 | | | 4042.00 | |
| Jars | 5.00 | | | 4047.00 | |
| Safety Joint | 3.00 | | | 4050.00 | |
| Packer | 5.00 | | | 4055.00 | 33.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 4060.00 | |
| Stubb | 1.00 | | | 4061.00 | |
| Recorder | 0.00 | 8360 | Inside | 4061.00 | |
| Recorder | 0.00 | 8671 | Outside | 4061.00 | |
| Perforations | 18.00 | | | 4079.00 | |
| Bullnose | 3.00 | | | 4082.00 | 22.00 Bottom Packers & Anchor |

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

35-8S-31W Thomas,KS

PO Box 47
Great Bend, KS 67530

Steiger Unit #1-35

Job Ticket: 66866

DST#: 9

ATTN: Brad Rine

Test Start: 2020.04.28 @ 22:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------|---------------|
| 30.00 | OCM - 10%o - 90%m | 0.308 |

Total Length: 30.00 ft Total Volume: 0.308 bbl

Num Fluid Samples: 0

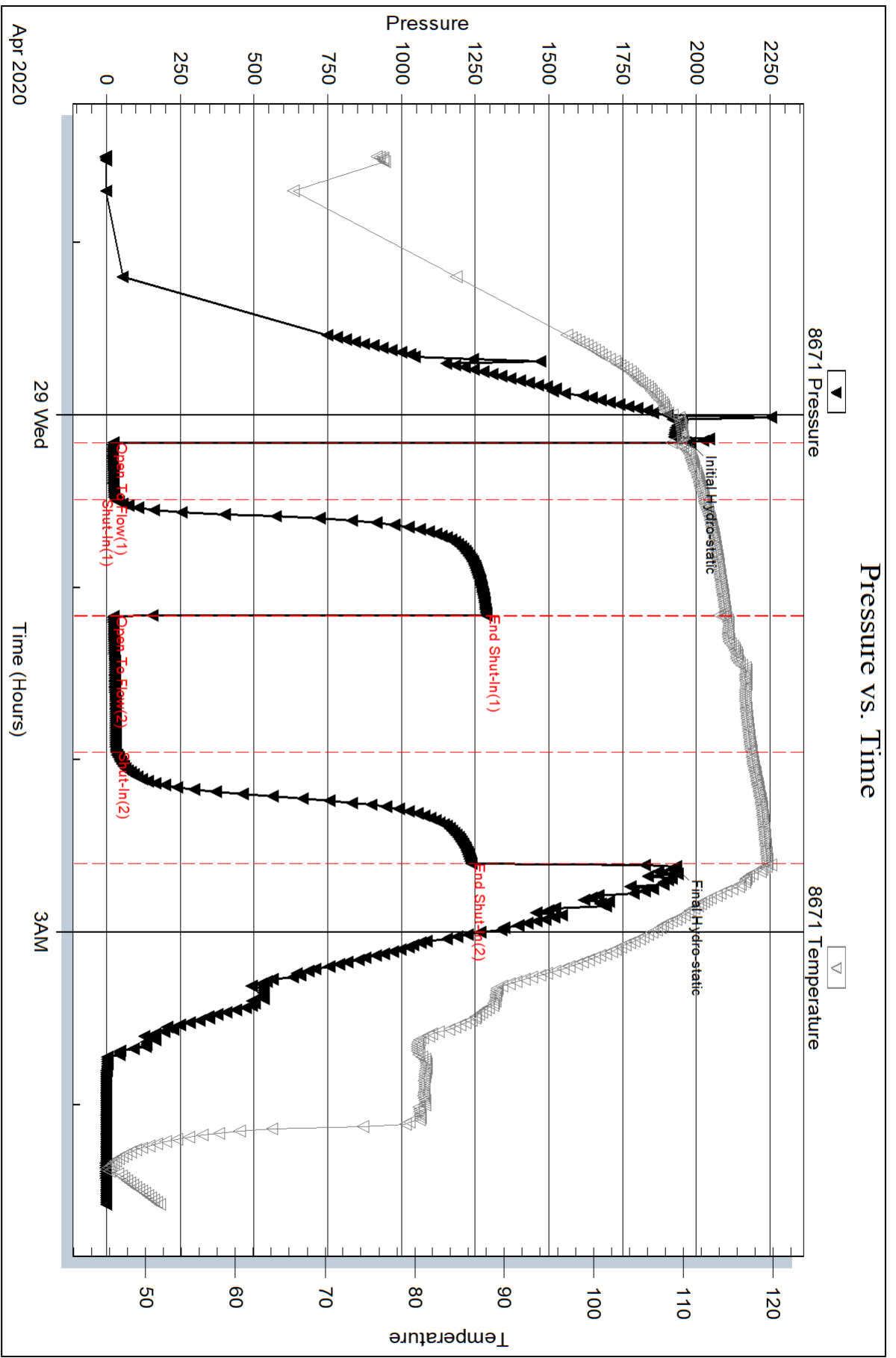
Num Gas Bombs: 0

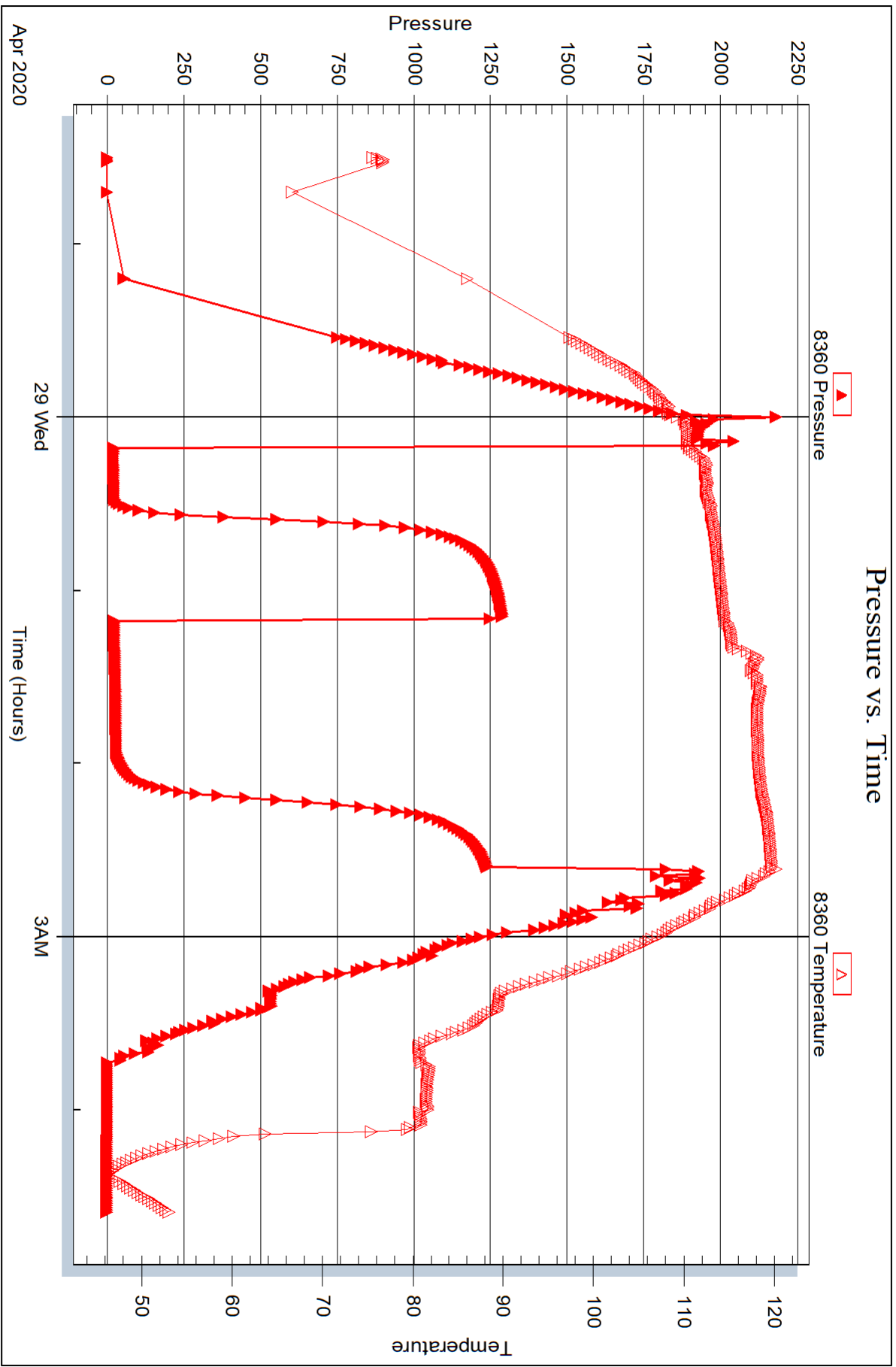
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 66858

Well Name & No. Steiger Unit #1-35 Test No. 1 Date 4-23-2020
 Company Carmen Schmitt, Inc Elevation 2973 KB 2963 GL
 Address PO Box 47 Great Bend ks, 67530
 Co. Rep / Geo. Brad Rine Rig Southwind #8
 Location: Sec. 35 Twp 8S Rge. 3W Co. Thomas State ks

Interval Tested 3641-3690 Zone Tested Tarhia
 Anchor Length 49' Drill Pipe Run 3641' Mud Wt. 8.6
 Top Packer Depth 3636 Drill Collars Run 0 Vis 6.1
 Bottom Packer Depth 3641' Wt. Pipe Run 0 WL 6.4
 Total Depth 3690 Chlorides 2000 ppm System LCM 2#

Blow Description IF - chased tool 6ft to bottom 1 3/4" Blow
ISI - No Return
FF - No Blow
ESI - pulled tool

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|------------|------|------|------------|------|
| <u>31</u> | <u>mud</u> | | | <u>100</u> | |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 31 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1756 Test 1200 T-On Location 6:07pm
 (B) First Initial Flow 29 Jars 250 T-Started 7:38pm
 (C) First Final Flow 31 Safety Joint 75 T-Open 10:14pm
 (D) Initial Shut-In 998 Circ Sub T-Pulled 11:09pm
 (E) Second Initial Flow 32 Hourly Standby T-Out 1:44am
 (F) Second Final Flow 38 Mileage 212 R/T 84rt
 (G) Final Shut-In Sampler
 (H) Final Hydrostatic 1706 Straddle EM Tool 350

Initial Open 15 Ruined Shale Packer
 Initial Shut-In 30 Ruined Packer
 Final Flow 10 Extra Copies
 Final Shut-In pulled tool Day Standby Sub Total 350
 Accessibility Total 1859
 Sub Total 1859 MR/DST Disc't _____

Approved By _____ Our Representative [Signature]

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785-656-0157



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 66859

Well Name & No. Steger Unit #1-35 Test No. 2 Date 4-24-2020
 Company Carmen Schmitt Inc. Elevation 2973 KB 2963 GL
 Address PO Box 47 Great Bend ks 67530
 Co. Rep / Geo. Brad Kline Rig Southwind #8
 Location: Sec. 35 Twp 8S Rge. 31W Co. Thomas State ks

Interval Tested 3720 - 3777 Zone Tested L. Howard, Topeka "A"
 Anchor Length 57 Drill Pipe Run 3718.42 Mud Wt. 8.7
 Top Packer Depth 3715' Drill Collars Run 0 Vis 50
 Bottom Packer Depth 3720' Wt. Pipe Run 0 WL 6.8
 Total Depth 3777' Chlorides 2400 ppm System LCM 1#

Blow Description IF - Chased tool left blow built up to 3"
IST - No Return
FF - Surface blow built to 2 1/4"
FST - No Return

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|------------|--------------|------|------------|------|
| <u>92'</u> | <u>asm</u> | <u>spots</u> | | <u>100</u> | |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 92' BHT 117°F Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1781 Test 1200 T-On Location 10:30 am
 (B) First Initial Flow 29 Jars 250 T-Started 11:03 am
 (C) First Final Flow 43 Safety Joint 75 T-Open 1:15 pm
 (D) Initial Shut-In 910 Circ Sub _____ T-Pulled 3:45 pm
 (E) Second Initial Flow 45 Hourly Standby _____ T-Out 6:44 pm
 (F) Second Final Flow 60 Mileage 212 R/T 84 Comments _____
 (G) Final Shut-In 837 Sampler _____
 (H) Final Hydrostatic 1775 Straddle _____ EM Tool 350
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____

Initial Open 15 Extra Packer _____
 Initial Shut-In 30 Extra Recorder _____
 Final Flow 45 Day Standby _____
 Final Shut-In 60 Accessibility _____
 Sub Total 1859 Sub Total 1859 MP/DST Disc't _____

Approved By _____ Our Representative Royal Fisher

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 66860

Well Name & No. Carmen Schmitting Test No. 3 Date 4-25-2020
 Company Steiner Unit #1-35 1/2 Elevation 2973 KB 2963 GL
 Address PO Box 47 Great Bend Ks 67533
 Co. Rep / Geo. Brad Pine Rig Southwind #8
 Location: Sec. 35 Twp 8S Rge. 31W Co. Thomas State Ks

Interval Tested 3723'-3840' Zone Tested Topeka
 Anchor Length 67' Drill Pipe Run 3750.25 Mud Wt. 8.7
 Top Packer Depth 3768' Drill Collars Run 0 Vis 50
 Bottom Packer Depth 3773' Wt. Pipe Run 0 WL 4.8
 Total Depth 3840' Chlorides _____ ppm System LCM #

Blow Description IF - surface blow built to B.O.B. in 4 mins
ISI - No return
EF - Blow built to B.O.B. in 5 min
FSL - No return

| Rec | Feet of | %gas | %oil | %water | %mud |
|-------------|-----------|------|-----------|-----------|------|
| <u>470'</u> | <u>mw</u> | | <u>90</u> | <u>10</u> | |
| <u>235'</u> | <u>mw</u> | | <u>70</u> | <u>30</u> | |
| <u>225'</u> | <u>mw</u> | | <u>55</u> | <u>45</u> | |
| <u>10'</u> | <u>wm</u> | | <u>20</u> | <u>80</u> | |

Rec Total 940' BHT 125°F Gravity _____ API RW 331 @ 51 °F Chlorides 28,000 ppm

(A) Initial Hydrostatic 1821 Test 1200 T-On Location 4:25am
 (B) First Initial Flow 61 Jars 250 T-Started 5:18am
 (C) First Final Flow 2168 Safety Joint 75 T-Open 7:18
 (D) Initial Shut-In 1172 Circ Sub T-Pulled 9:05am
 (E) Second Initial Flow 281 Hourly Standby T-Out 11:48am
 (F) Second Final Flow 445 Mileage 212 AVT 84 Comments _____
 (G) Final Shut-In 1156 Sampler _____
 (H) Final Hydrostatic 1782 Straddle _____
 Shale Packer 250 EM Tool 350
 Extra Packer Ruined Shale Packer _____
 Extra Recorder Ruined Packer _____
 Day Standby Sub Total 350
 Accessibility Total 1859
 Sub Total 1859 MP/DST Disc't _____

Approved By _____ Our Representative Brad Pine
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 66861

Well Name & No. Steiger Unit #1-35 Test No. 4 Date 4-25-2020
 Company Carmen Schmitt Elevation 2973 KB 2963 GL
 Address PO Box 47 Great Bend ks 67530
 Co. Rep / Geo. Brad Rine Rig Southwind #8
 Location: Sec. 35 Twp 8S Rge. 31W Co. Thomas State ks

Interval Tested 3860'-3940' Zone Tested L. Topeka / Oread
 Anchor Length 80 Drill Pipe Run 3850.62' Mud Wt. 9.1
 Top Packer Depth 3855' Drill Collars Run 0 Vis 56
 Bottom Packer Depth 3860' Wt. Pipe Run 0 WL 8.8
 Total Depth 3940' Chlorides 3500 ppm System LCM 1#

Blow Description IF - Surface blow built to B.O.B in 10 mins
IST - No Return
FF - Surface blow built to B.O.B in 10 mins
FST - No Return

| Rec | Feet of | %gas | Spots | %oil | %water | %mud |
|------------|-------------|------|-----------|------|-----------|------|
| <u>386</u> | <u>OSMW</u> | | <u>80</u> | | <u>20</u> | |
| <u>385</u> | <u>OSMW</u> | | <u>60</u> | | <u>40</u> | |
| Rec | Feet of | %gas | | %oil | %water | %mud |
| Rec | Feet of | %gas | | %oil | %water | %mud |

Rec Total 771' BHT 125°F Gravity _____ API RW 333@40 °F Chlorides 38,000 ppm

(A) Initial Hydrostatic 1883 Test 1200 T-On Location 8:05 pm
 (B) First Initial Flow 35 Jars 250 T-Started 9:04 pm
 (C) First Final Flow 123 Safety Joint 75 T-Open 11:02 pm
 (D) Initial Shut-In 1204 Circ Sub _____ T-Pulled 1:32 am
 (E) Second Initial Flow 129 Hourly Standby _____ T-Out 4:13 am
 (F) Second Final Flow 350 Mileage 212 R/T 84 Comments _____
 (G) Final Shut-In 1204 Sampler _____
 (H) Final Hydrostatic 1827 Straddle _____ EM Tool 350
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 15
 Initial Shut-In 30
 Final Flow 45
 Final Shut-In 160
 Sub Total 1859 MP/DST Disc't _____

Approved By _____ Our Representative Royal Foster

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 66862

Well Name & No. Steiger Unit # 1-35 Test No. 5 Date 4-26-2020
 Company Carmen Schmitt Inc Elevation 2973 KB 2963 GL
 Address PO Box 47 Great Bend Ks 67530
 Co. Rep / Geo. Brad Rine Rig Southwind #8
 Location: Sec. 35 Twp 8S Rge. 31W Co. Thomas State Ks

Interval Tested 3954'-3999' Zone Tested Toronto
 Anchor Length 45' Drill Pipe Run 3941.17' Mud Wt. 9.2
 Top Packer Depth 3949' Drill Collars Run 0 Vis 60
 Bottom Packer Depth 3954' Wt. Pipe Run 0 WL 9.6
 Total Depth 3999' Chlorides 3700 ppm System LCM 1#

Blow Description IF - Surface blow built up to 3 1/2"
ISI - No return
EF - Blow, slowly built up to 5 1/4"
FBI - No return

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|-----------|------|-----------|-----------|------|
| <u>75'</u> | <u>MW</u> | | <u>80</u> | <u>20</u> | |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 75' BHT 127°F Gravity _____ API RW 155 @ 62° F Chlorides 55,000 ppm

(A) Initial Hydrostatic 1948 Test 1200 T-On Location 10:44
 (B) First Initial Flow 20 Jars 250 T-Started 12:14 pm
 (C) First Final Flow 29 Safety Joint 75 T-Open 1:36 pm
 (D) Initial Shut-In 1235 Circ Sub _____ T-Pulled 4:51 pm
 (E) Second Initial Flow 33 Hourly Standby _____ T-Out 6:55 pm
 (F) Second Final Flow 77 Mileage 212 R/T 84 Comments _____
 (G) Final Shut-In 1225 Sampler _____
 (H) Final Hydrostatic 1915 Straddle _____ EM Tool 350
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____

Initial Open 15 Extra Packer _____
 Initial Shut-In 30 Extra Recorder _____
 Final Flow 60 Day Standby _____
 Final Shut-In 90 Accessibility _____
 Sub Total 1859 Total 1859 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 66863

Well Name & No. Steiger Unit #1-35 Test No. 6 Date 4-27-2020
 Company Carmen Schmitt, Inc. Elevation 2973 KB 2963 GL
 Address PO Box 47 Great Bend ks 67530
 Co. Rep / Geo. Brad Rine Rig Southwind #8
 Location: Sec. 35 Twp 8S Rge. 31W Co. Thomas State ks

Interval Tested 3997' - 4025' Zone Tested Lansing A
 Anchor Length 28' Drill Pipe Run 3972.39' Mud Wt. 9.2
 Top Packer Depth 3992' Drill Collars Run Ø Vis 6.6
 Bottom Packer Depth 3997' Wt. Pipe Run Ø WL 9.6
 Total Depth 4025' Chlorides 3700 ppm System LCM 1#

Blow Description IF - Surface blow built up to 3 1/2"
IST - No Return
FF - Blow built to B.O.B. in 40 mins.
FST - No Return

| Rec | Feet of | %gas | %oil | %water | %mud |
|-------------|-----------------|-------------|-----------|-----------|------|
| <u>10'</u> | <u>Free Oil</u> | <u>100</u> | | | |
| <u>213'</u> | <u>OScum NW</u> | <u>Scum</u> | <u>85</u> | <u>15</u> | |
| <u>95'</u> | <u>GIP</u> | <u>100</u> | | | |
| | | | | | |
| | | | | | |

Rec Total 223' BHT 130°F Gravity 35@60 API RW 210 @ 60 °F Chlorides 30,900 ppm

(A) Initial Hydrostatic 1963 Test 1300 T-On Location 1:02 am
 (B) First Initial Flow 25 Jars 250 T-Started 1:27 am
 (C) First Final Flow 53 Safety Joint 75 T-Open 3:32 am
 (D) Initial Shut-In 1257 Circ Sub _____ T-Pulled 6:47 am
 (E) Second Initial Flow 56 Hourly Standby _____ T-Out 9:05 am
 (F) Second Final Flow 129 Mileage 212 R/T 84 Comments _____
 (G) Final Shut-In 1247 Sampler _____
 (H) Final Hydrostatic 1918 Straddle _____ EM Tool 350
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____

Initial Open 15 Extra Packer _____
 Initial Shut-In 30 Extra Recorder _____
 Final Flow 60 Day Standby _____
 Final Shut-In 90 Accessibility _____
 Sub Total 1959 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 66864

Well Name & No. Steiger Unit #1-35 Test No. 7 Date 4-27-2020
 Company Carmen Schmitt Inc. Elevation 2973 KB 2963 GL
 Address PO Box 47 Great Bend Ks 67530
 Co. Rep / Geo. Brad Rine Rig Southwind #8
 Location: Sec. 35 Twp 8S Rge. 31W Co. Thomas State Ks

Interval Tested 4019'-4050' Zone Tested Lans. C
 Anchor Length 31' Drill Pipe Run 4004.76' Mud Wt. 9.3
 Top Packer Depth 4014' Drill Collars Run 0 Vis 56
 Bottom Packer Depth 4019' Wt. Pipe Run 0 WL 10.4
 Total Depth 4050' Chlorides 6000 ppm System LCM 1#

Blow Description IF - Blow built to B.O.B. in 1min.
IST - Return built to B.O.B. in 5mins.
FF - Blow built to B.O.B. in 1min. & had Gas to Surface in 12mins.
EST - Return built to B.O.B. in 7mins. then died to 8"

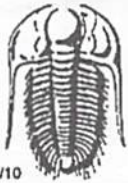
| Rec | Feet of | %gas | %oil | %water | %mud |
|-------------|--------------------|------------|------|--------|------|
| <u>2944</u> | <u>30</u> | <u>70</u> | | | |
| | <u>1008' - GIP</u> | <u>100</u> | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Rec Total 2944 BHT 131°F Gravity 36@60° API RW @ ° F Chlorides ppm
 (A) Initial Hydrostatic 1946 Test 1300 T-On Location 3:00pm
 (B) First Initial Flow 451 Jars 250 T-Started 3:28pm
 (C) First Final Flow 739 Safety Joint 75 T-Open 4:58pm
 (D) Initial Shut-In 1217 Circ Sub T-Pulled 7:13pm
 (E) Second Initial Flow 789 Hourly Standby T-Out 12:01am
 (F) Second Final Flow 1054 Mileage 212 RT 84 Comments
 (G) Final Shut-In 1198 Sampler
 (H) Final Hydrostatic 1949 Straddle EM Tool 350

Initial Open 15 Shale Packer 250 Ruined Shale Packer
 Initial Shut-In 30 Extra Packer Ruined Packer
 Final Flow 33 Extra Recorder Extra Copies
 Final Shut-In 60 Day Standby Sub Total 350
 Accessibility Total 1959
 Sub Total 1959 MP/DST Disc't

Approved By _____ Our Representative Royal V. Suler

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 66865

Well Name & No. Steiger Unit #1-35 Test No. 8 Date 4-28-2020
 Company Carmen Schmitt Inc. Elevation 2973 KB 2963 GL
 Address PO Box 47 Great Bend KS 67530
 Co. Rep / Geo. Brad Rine Rig Southwind #8
 Location: Sec. 35 Twp 8S Rge. 31W Co. Thomas State Ks

Interval Tested 4050'-4063' Zone Tested Lans D
 Anchor Length 13 Drill Pipe Run 4036 Mud Wt. 9.1
 Top Packer Depth 4045' Drill Collars Run 0 Vis 54
 Bottom Packer Depth 4050' Wt. Pipe Run 0 WL 7.2
 Total Depth 4063' Chlorides 4000 ppm System LCM 1#

Blow Description IF - Surface blow started a weak blow 12 mips
ISI - No Return
FF - Blow built up to 1 3/4" then died off to 1"
FST - No Return

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|---------------|-----------|------|-----------|------|
| <u>31'</u> | <u>OCM</u> | <u>30</u> | | <u>70</u> | |
| <u>1</u> | <u>31-GIP</u> | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Rec Total 31' BHT 1219F Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1978 Test 1300 T-On Location 6:00 am
 (B) First Initial Flow 19 Jars 250 T-Started 7:40 am
 (C) First Final Flow 19 Safety Joint 75 T-Open 9:09 am
 (D) Initial Shut-In 182 Circ Sub _____ T-Pulled 12:00 pm
 (E) Second Initial Flow 13 Hourly Standby _____ T-Out 1:47 pm
 (F) Second Final Flow 19 Mileage 212 B/T 84
 (G) Final Shut-In 103 Sampler _____
 (H) Final Hydrostatic 1935 Straddle _____ EM Tool 350
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____

Initial Open 15 Extra Packer _____
 Initial Shut-In 30 Extra Recorder _____
 Final Flow 45 Day Standby _____
 Final Shut-In 60 Accessibility _____
 Sub Total 1959 MP/DST Disc't _____

Approved By _____ Our Representative Brad Rine

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 66866

Well Name & No. Steiger Unit # 1-35 Test No. 9 Date 4-28-2020
 Company Carmen Schmitt Inc. Elevation 2973 KB 2963 GL
 Address PO Box 47 Great Bend Ks 67530
 Co. Rep / Geo. Broad Line Rig South Wind #8
 Location: Sec. 35 Twp 8S Rge. 31W Co. Thomas State Ks

Interval Tested 4060'-4082' Zone Tested Lans. E
 Anchor Length 22 Drill Pipe Run 4035' Mud Wt. 9.1
 Top Packer Depth 4055' Drill Collars Run 0 Vis 54
 Bottom Packer Depth 4060' Wt. Pipe Run 0 WL 7.2
 Total Depth 4082 Chlorides 4000 ppm System LCM 1#
 Blow Description IF - Blow built to 1" then died to 3/4"

ISI - No Return
FF - Blow built to a weak blow
FSI - No Return

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|------------|-----------|------|-----------|------|
| <u>30</u> | <u>00m</u> | <u>10</u> | | <u>90</u> | |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 30 BHT 1190 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1977 Test 1300 T-On Location 10:00 am
 (B) First Initial Flow 24 Jars 250 T-Started 10:30 am
 (C) First Final Flow 31 Safety Joint 75 T-Open 12:11 am
 (D) Initial Shut-In 1288 Circ Sub _____ T-Pulled 2:30 am
 (E) Second Initial Flow 25 Hourly Standby _____ T-Out 4:35 am
 (F) Second Final Flow 32 Mileage 212 R/T 84 Comments _____
 (G) Final Shut-In 1238 Sampler _____
 (H) Final Hydrostatic 1930 Straddle _____ EM Tool 350
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 15
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Sub Total 1959 Sub Total 1959 MP/DST Disc't _____

Approved By _____ Our Representative _____

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 66867

Well Name & No. Steiger Unit #1-35 Test No. 10 Date 4-29-2020
 Company Carmen Schmitt Inc. Elevation 2973 KB 2963 GL
 Address PO Box 47 Great Bend Ks 67530
 Co. Rep / Geo. Broadline Rig Southwind #8
 Location: Sec. 35 Twp 8S Rge. 31W Co. Thomas State Ks

Interval Tested 4082' - 4092' Zone Tested Lans. F
 Anchor Length 10' Drill Pipe Run 4067 Mud Wt. 9.1
 Top Packer Depth 4077' Drill Collars Run 0 Vis 59
 Bottom Packer Depth 4082' Wt. Pipe Run 0 WL 8.0
 Total Depth 4092' Chlorides 4600 ppm System LCM 1#

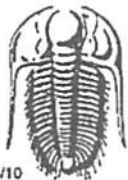
Blow Description FF - Blow stayed at a weak surface
IST - No return
FF - Blow built to a faint blow

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|------------|--------------|------|------------|------|
| <u>15'</u> | <u>OSM</u> | <u>Spots</u> | | <u>100</u> | |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 15' BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

| | | |
|-------------------------------------|--|--|
| (A) Initial Hydrostatic <u>2015</u> | <input checked="" type="checkbox"/> Test 1300 | T-On Location <u>10:30 am</u> |
| (B) First Initial Flow <u>18</u> | <input checked="" type="checkbox"/> Jars 250 | T-Started <u>11:14 am</u> |
| (C) First Final Flow <u>22</u> | <input checked="" type="checkbox"/> Safety Joint 75 | T-Open <u>1:05 pm</u> |
| (D) Initial Shut-In <u>1311</u> | <input type="checkbox"/> Circ Sub _____ | T-Pulled <u>2:05 pm</u> |
| (E) Second Initial Flow <u>23</u> | <input type="checkbox"/> Hourly Standby _____ | T-Out <u>4:02</u> |
| (F) Second Final Flow <u>26</u> | <input checked="" type="checkbox"/> Mileage 84 | Comments _____ |
| (G) Final Shut-In _____ | <input type="checkbox"/> Sampler _____ | |
| (H) Final Hydrostatic <u>1935</u> | <input type="checkbox"/> Straddle _____ | |
| Initial Open <u>15</u> | <input checked="" type="checkbox"/> Shale Packer 250 | <input checked="" type="checkbox"/> EM Tool 350 |
| Initial Shut-In <u>30</u> | <input type="checkbox"/> Extra Packer _____ | <input type="checkbox"/> Ruined Shale Packer _____ |
| Final Flow <u>10</u> | <input type="checkbox"/> Extra Recorder _____ | <input type="checkbox"/> Ruined Packer _____ |
| Final Shut-In <u>pulled</u> | <input type="checkbox"/> Day Standby _____ | <input type="checkbox"/> Extra Copies _____ |
| | <input type="checkbox"/> Accessibility _____ | Sub Total <u>350</u> |
| | Sub Total <u>1959</u> | Total <u>1959</u> |

Approved By _____ Our Representative Ryan York
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 66868

Well Name & No. Steiger Unit #1-35 Test No. 11 Date 4/30/2020
 Company Carmen Schmitt, Inc. Elevation 2973 KB 2963 GL
 Address PO Box 47 Great Bend, KS 67530
 Co. Rep / Geo. Brad Rine Rig Southwind 8
 Location: Sec. 35 Twp 8 S Rge. 31 W Co. Thomas State KS

Interval Tested 4118 - 4160 Zone Tested LKC "H"
 Anchor Length 42' Drill Pipe Run 4100 Mud Wt. 9.1
 Top Packer Depth 4113 Drill Collars Run _____ Vis 59
 Bottom Packer Depth 4118 Wt. Pipe Run _____ WL 8.0
 Total Depth 4160 Chlorides 4,600 ppm System LCM 1 #

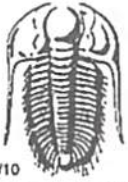
Blow Description FF-BOB 1 min. Built to 93.48"
FST-BOB 9 mins. Built to 29.77"
FF-BOB 2 mins. Built to 38.31"
FST-BOB 10 mins. Built to 28.77"

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|------------------|-----------|-----------|-----------|----------|
| <u>190</u> | <u>CROCMA</u> | <u>30</u> | <u>30</u> | <u>40</u> | <u>0</u> |
| <u>475</u> | <u>VGLO</u> | <u>50</u> | <u>50</u> | <u>0</u> | <u>0</u> |
| ____ | <u>2925' GIP</u> | ____ | ____ | ____ | ____ |
| ____ | ____ | ____ | ____ | ____ | ____ |
| ____ | ____ | ____ | ____ | ____ | ____ |

Rec Total 665' BHT 133° Gravity 39 API RW _____ @ _____ °F Chlorides _____ ppm

| | | | | | |
|-------------------------|-------------|--|-----------------|---|-------------|
| (A) Initial Hydrostatic | <u>2036</u> | <input checked="" type="checkbox"/> Test | <u>1300</u> | T-On Location | <u>0010</u> |
| (B) First Initial Flow | <u>69</u> | <input checked="" type="checkbox"/> Jars | <u>250</u> | T-Started | <u>0034</u> |
| (C) First Final Flow | <u>173</u> | <input checked="" type="checkbox"/> Safety Joint | <u>75</u> | T-Open | <u>0353</u> |
| (D) Initial Shut-In | <u>1330</u> | <input type="checkbox"/> Circ Sub | ____ | T-Pulled | <u>0538</u> |
| (E) Second Initial Flow | <u>182</u> | <input type="checkbox"/> Hourly Standby | ____ | T-Out | <u>0835</u> |
| (F) Second Final Flow | <u>260</u> | <input checked="" type="checkbox"/> Mileage | <u>84 RT</u> 84 | Comments | ____ |
| (G) Final Shut-In | <u>1329</u> | <input type="checkbox"/> Sampler | ____ | ____ | ____ |
| (H) Final Hydrostatic | <u>1987</u> | <input type="checkbox"/> Straddle | ____ | <input checked="" type="checkbox"/> EM Tool | <u>350</u> |
| Initial Open | <u>15</u> | <input checked="" type="checkbox"/> Shale Packer | <u>250</u> | <input checked="" type="checkbox"/> Ruined Shale Packer | <u>350</u> |
| Initial Shut-In | <u>30</u> | <input type="checkbox"/> Extra Packer | ____ | <input type="checkbox"/> Ruined Packer | ____ |
| Final Flow | <u>15</u> | <input type="checkbox"/> Extra Recorder | ____ | <input type="checkbox"/> Extra Copies | ____ |
| Final Shut-In | <u>45</u> | <input type="checkbox"/> Day Standby | ____ | Sub Total | <u>700</u> |
| | | <input type="checkbox"/> Accessibility | ____ | Total | <u>2309</u> |
| | | Sub Total | <u>1959</u> | MP/DST Disc't | ____ |

Approved By _____ Our Representative Brian Lonsdale
 TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 66869

Well Name & No. Steiger Unit #1-35 Test No. 12 Date 4/30/2020
 Company Carmen Schmitt, Inc. Elevation 2973 KB 2963 GL
 Address PO Box 47 Great Bend, KS 67530
 Co. Rep / Geo. Brad Rine Rig Southwind 8
 Location: Sec. 35 Twp 8 S Rge. 31 Wco. Thomas State KS

Interval Tested 4178-4210 Zone Tested LKC "J"
 Anchor Length 32 Drill Pipe Run 4163 Mud Wt. 9.3
 Top Packer Depth 4173 Drill Collars Run --- Vis 52
 Bottom Packer Depth 4178 Wt. Pipe Run --- WL 8.8
 Total Depth 4210 Chlorides 5,000 ppm System LCM 1#
 Blow Description IF-0.25" blow
ISF-No blow
FF-No blow. Pulled tool

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|------------|------|------|--------|------|
| <u>10</u> | <u>OSM</u> | | | | |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 10 BHT 112° Gravity --- API RW --- @ --- °F Chlorides --- ppm

| | | |
|-------------------------------------|---|--|
| (A) Initial Hydrostatic <u>2020</u> | <input checked="" type="checkbox"/> Test <u>1300</u> | T-On Location <u>1545</u> |
| (B) First Initial Flow <u>18</u> | <input checked="" type="checkbox"/> Jars <u>250</u> | T-Started <u>1606</u> |
| (C) First Final Flow <u>20</u> | <input checked="" type="checkbox"/> Safety Joint <u>75</u> | T-Open <u>2111</u> |
| (D) Initial Shut-In <u>62</u> | <input type="checkbox"/> Circ Sub <u>---</u> | T-Pulled <u>2206</u> |
| (E) Second Initial Flow <u>21</u> | <input type="checkbox"/> Hourly Standby <u>---</u> | T-Out <u>5/1</u> <u>0013</u> |
| (F) Second Final Flow <u>21</u> | <input checked="" type="checkbox"/> Mileage <u>84 RT + 48 x 2</u> | Comments <u>Had to get mud</u> |
| (G) Final Shut-In <u>---</u> | <input type="checkbox"/> Sampler <u>---</u> | <u>in shape. Back @</u> |
| (H) Final Hydrostatic <u>2015</u> | <input type="checkbox"/> Straddle <u>---</u> | <u>1900. Tools locked 5/20</u> |
| Initial Open <u>15</u> | <input checked="" type="checkbox"/> Shale Packer <u>250</u> | <input checked="" type="checkbox"/> EM Tool <u>350</u> <u>1350</u> |
| Initial Shut-In <u>30</u> | <input type="checkbox"/> Extra Packer <u>---</u> | <input type="checkbox"/> Ruined Shale Packer <u>---</u> |
| Final Flow <u>10</u> | <input type="checkbox"/> Extra Recorder <u>---</u> | <input type="checkbox"/> Ruined Packer <u>---</u> |
| Final Shut-In <u>---</u> | <input checked="" type="checkbox"/> Day Standby <u>1d .75h NC</u> | <input type="checkbox"/> Extra Copies <u>---</u> |
| | <input type="checkbox"/> Accessibility <u>---</u> | Sub Total <u>350</u> |
| | Sub Total <u>2055</u> | Total <u>2055</u> |
| | | MP/DST Disc't <u>---</u> |

Approved By _____ Our Representative Brannon Lewis Lab
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.