

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)</i> <i>(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: | |
|----------------|-------|---------|------------|--|



TICKET 34362

CHARGE TO: Stewart Producers
 ADDRESS
 CITY, STATE, ZIP CODE

PAGE 1 OF 1

| | | | | | |
|--|------------------------------|-----------------------------|--------------------------|---------------------------------|-------|
| WELL/PROJECT NO. 1-30 | LEASE H & H | COUNTY/PARISH Ness | CITY Ness City | DATE 12-1-2021 | OWNER |
| TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES | CONTRACTOR Pickrell | RIG NAME/NO. | DELIVERED TO Location | ORDER NO. | |
| WELL TYPE Oil | WELL CATEGORY Development | JOB PURPOSE Surface Pipe | WELL PERMIT NO. | WELL LOCATION Ness City Co-W | |
| INVOICE INSTRUCTIONS N + W INTD | | | | | |

| PRICE REFERENCE | SECONDARY REFERENCE/ PART NUMBER | ACCOUNTING | | DESCRIPTION | QTY. | U/M | QTY. | U/M | UNIT PRICE | AMOUNT |
|-----------------|-------------------------------------|------------|------|------------------------|------|-----|------|-----|------------|---------|
| | | LOC | ACCT | | | | | | | |
| 576 | | 1 | | | | | 10 | mi | 6.00 | 60.00 |
| 5765 | | 1 | | MILEAGE Trk # 114 | | | 1 | job | 1000.00 | 1000.00 |
| 326 | | 1 | | Pump Charge - Surface | | | 150 | sk | 14.00 | 2175.00 |
| 279 | | 1 | | Standard Cement | | | | | | |
| 278 | | 1 | | Bentonite Gel | | | 3 | sk | 30.00 | 90.00 |
| 290 | | 1 | | Calcium Chloride | | | 17 | sk | 40.00 | 680.00 |
| | | 1 | | D-Air | | | 2 | gal | 42.00 | 84.00 |
| 581 | | 1 | | CMT Service Charge | | | 150 | sk | 2.00 | 300.00 |
| 582 | | 1 | | Minimum Drayage Charge | | | 1 | EA | 300.00 | 300.00 |

| | |
|---|--|
| <p>REMIT PAYMENT TO:</p> <p>SWIFT SERVICES, INC. P.O. BOX 466 NESS CITY, KS 67560 785-798-2300</p> | <p>SURVEY</p> <p>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?</p> <p>AGREE <input type="checkbox"/> DISAGREE <input type="checkbox"/></p> |
| <p>DATE SIGNED 12-1-2021</p> <p>TIME SIGNED 3:30</p> | <p>ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p><input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND</p> |
| <p>PAGE TOTAL</p> <p>4289.00</p> | <p>TOTAL</p> <p>4459.89</p> |

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.

DATE SIGNED 12-1-2021

TIME SIGNED 3:30

A.M.
 P.M.

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

SWIFT OPERATOR Julieann Fuchs APPROVAL

The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 12-1-2021 PAGE NO. 1

CUSTOMER Stewart Producers WELL NO. 1-30 LEASE H+H JOB TYPE Surface Pipe TICKET NO. 34362

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
|-----------|------|------------|--------------------|-------|---|----------------|--------|--|
| | | | | T | C | TUBING | CASING | |
| | 0130 | | | | | | | ON LOCATION 8 5/8" 2316/16 |
| | | | | | | | | RTP: 247' |
| | 0145 | | | | | | | START 8 5/8" 2316/16 Csg IN well |
| | 0245 | | | | | | | BREAK Circulation |
| | 0250 | 4 | 5 | | ✓ | 200 | | Pump 5 bbl H ₂ O SPACER |
| | 0255 | 3 | 36 | | ✓ | 150 | | Mix 150 sks of STANDARD CMT w/ 2% gel, 3% CC @ 14.7ppg |
| | | 4 | 0 | | ✓ | 100 | | Begin Displacement |
| | | 4 | 11 | | ✓ | 300 | | Circulate CMT to Surface * |
| | 0315 | 4 | 14.75 | | ✓ | 200 | | KO Pump * Shut IN * - Release PSI * Hold * |
| | 0320 | | | | | | | Wash up Trk #114 |
| | 0330 | | | | | | | Job Complete |
| | | | | | | | | 150 sks of STANDARD 2% gel, 3% CC used |
| | | | | | | | | * 15 sks to the Pit * |
| | | | | | | | | THANKS! |
| | | | | | | | | Goodman, Kirby, Mack |

FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

TICKET NUMBER 0470
 LOCATION Hoxie
 FOREMAN Tom Williams

FIELD TICKET & TREATMENT REPORT CEMENT

| DATE | CUSTOMER # | WELL NAME & NUMBER | SECTION | TOWNSHIP | RANGE | COUNTY |
|--|------------|--------------------|---------|----------|-------|--------|
| 12-07-21 | 34996 | H#H 1-30 | 30 | 19 | 24 | Ness |
| CUSTOMER Stewart Producers Inc. | | | TRUCK # | | | |
| MAILING ADDRESS 301 N 27 th SE. PO Box 546 | | | DRIVER | | | |
| CITY Mt. Vernon | | | TRUCK # | | | |
| STATE IL | | | DRIVER | | | |
| ZIP CODE 62964 | | | TRUCK # | | | |
| | | | DRIVER | | | |

JOB TYPE Running Plug HOLE SIZE _____ HOLE DEPTH _____ CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4 1/2" TUBING _____ OTHER _____
 SLURRY WEIGHT 11.7 SLURRY VOL 2.3 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: safety meeting & rig up on Pickwell Drilling. Plug as ordered.
1st 1640' 50 sy
2nd 930' 50 sy
3rd 270' 50 sy
4th 624' 20 sy
RH 30 sy

23031 Thanks Tom & crew

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL |
|--------------|-------------------|------------------------------------|-----------------|------------|
| PC005 | 1 | PUMP CHARGE PTA | \$1500.00 | \$1500.00 |
| MA01 | 90 | MILEAGE | \$6.50 | \$585.00 |
| MA02 | 10.24 tons | Ton Mileage delivery | \$1382.40 | \$1382.40 |
| CB010 | 230 sy | 60/40' 4% gal 1/4# 10 | \$16.75 | \$3,852.98 |
| | | | sub total | \$7,319.90 |
| | | | less 20% disc. | \$1463.98 |
| | | | sub total | 5,855.92 |
| | | | SALES TAX | 200.33 |
| | | | ESTIMATED TOTAL | 6056.25 |

AUTHORIZATION [Signature] TITLE _____ DATE _____

mailed to M. Thompson 12/17/21

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



DRILL STEM TEST REPORT

Prepared For: **Stewart Producers**

PO Box 546
MT. Vernon, IL 62864

ATTN: Aaron Young

H&H #1-30

30-18-24w Ness,KS

Start Date: 2021.12.06 @ 08:06:16

End Date: 2021.12.06 @ 17:21:46

Job Ticket #: 47664 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2021.12.09 @ 12:08:00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Stewart Producers

30-18-24w Ness,KS

PO Box 546
MT. Vernon, IL 62864

H&H #1-30

Job Ticket: 47664

DST#: 1

ATTN: Aaron Young

Test Start: 2021.12.06 @ 08:06:16

GENERAL INFORMATION:

Formation: **Ft. Scott - Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:36:46

Time Test Ended: 17:21:46

Test Type: Conventional Straddle (Initial)

Tester: Kevin Webster

Unit No: 75

Interval: 4300.00 ft (KB) To 4398.00 ft (KB) (TVD)

Reference Elevations: 2356.00 ft (KB)

Total Depth: 4466.00 ft (KB) (TVD)

2349.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8957

Inside

Press@RunDepth: 132.04 psig @ 4317.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.12.06 End Date: 2021.12.06

Last Calib.: 2021.12.06

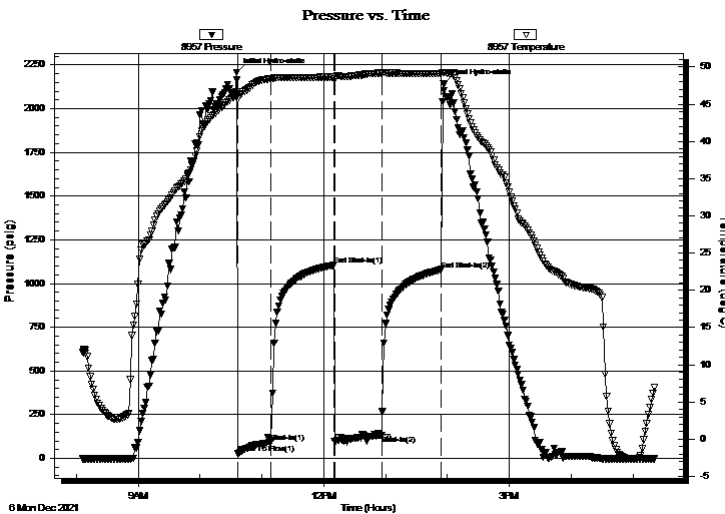
Start Time: 08:06:17 End Time: 17:21:46

Time On Btm: 2021.12.06 @ 10:35:16

Time Off Btm: 2021.12.06 @ 13:56:16

TEST COMMENT: 30 IF-WSB built to 7"
60 ISL- No returns
45 FF- WSB built to 6.5"
60 FSI- No returns

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg C) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2207.31 | 46.07 | Initial Hydro-static |
| 2 | 26.89 | 45.78 | Open To Flow (1) |
| 33 | 92.23 | 48.40 | Shut-In(1) |
| 95 | 1104.81 | 48.62 | End Shut-In(1) |
| 95 | 96.35 | 48.45 | Open To Flow (2) |
| 141 | 132.04 | 49.17 | Shut-In(2) |
| 199 | 1079.24 | 49.09 | End Shut-In(2) |
| 201 | 2140.88 | 49.26 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------|--------------|
| 237.00 | 1% Oil 99% Mud | 2.27 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Stewart Producers

30-18-24w Ness, KS

PO Box 546
MT. Vernon, IL 62864

H&H #1-30

Job Ticket: 47664

DST#: 1

ATTN: Aaron Young

Test Start: 2021.12.06 @ 08:06:16

GENERAL INFORMATION:

Formation: **Ft. Scott - Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:36:46

Time Test Ended: 17:21:46

Test Type: Conventional Straddle (Initial)

Tester: Kevin Webster

Unit No: 75

Interval: 4300.00 ft (KB) To 4398.00 ft (KB) (TVD)

Reference Elevations: 2356.00 ft (KB)

Total Depth: 4466.00 ft (KB) (TVD)

2349.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8969 Below (Straddle)

Press@RunDepth: psig @ 4404.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.12.06

End Date: 2021.12.06

Last Calib.: 2021.12.06

Start Time: 08:18:43

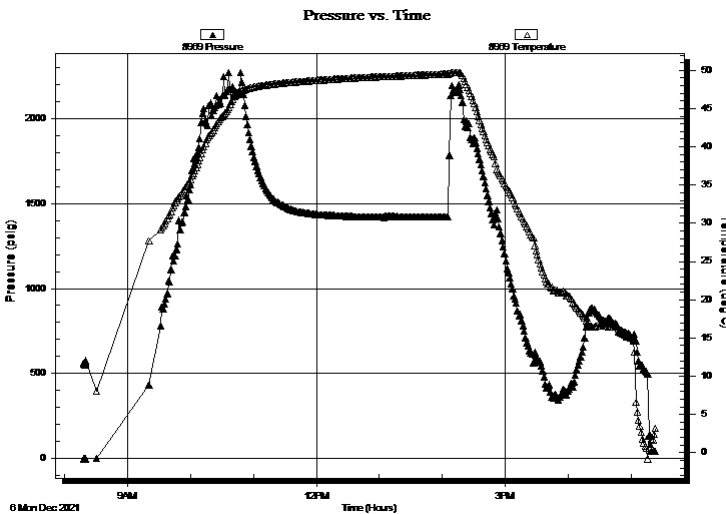
End Time: 17:23:12

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 IF-WSB built to 7"
60 ISL- No returns
45 FF- WSB built to 6.5"
60 FSI- No returns

PRESSURE SUMMARY



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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------|--------------|
| 237.00 | 1% Oil 99% Mud | 2.27 |
| | | |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stewart Producers

30-18-24w Ness,KS

PO Box 546
MT. Vernon, IL 62864

H&H #1-30

Job Ticket: 47664

DST#: 1

ATTN: Aaron Young

Test Start: 2021.12.06 @ 08:06:16

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 4164.00 ft | Diameter: 3.80 inches | Volume: 58.41 bbl | Tool Weight: | 2000.00 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: 116.00 ft | Diameter: 2.25 inches | Volume: 0.57 bbl | Weight to Pull Loose: | 72000.00 lb |
| | | | <u>Total Volume: 58.98 bbl</u> | Tool Chased | 0.00 ft |
| Drill Pipe Above KB: | 10.00 ft | | | String Weight: Initial | 70000.00 lb |
| Depth to Top Packer: | 4300.00 ft | | | Final | 72000.00 lb |
| Depth to Bottom Packer: | 4398.00 ft | | | | |
| Interval between Packers: | 98.00 ft | | | | |
| Tool Length: | 201.00 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 | | | 4275.00 | |
| Hydraulic tool | 5.00 | | | 4280.00 | |
| Jars | 5.00 | | | 4285.00 | |
| Recorder | 3.00 | | | 4288.00 | |
| Safety Joint | 3.00 | | | 4291.00 | |
| Packer | 5.00 | | | 4296.00 | 30.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4300.00 | |
| Stubb | 1.00 | | | 4301.00 | |
| Perforations | 16.00 | | | 4317.00 | |
| Recorder | 0.00 | 8957 | Inside | 4317.00 | |
| Recorder | 0.00 | 6672 | Outside | 4317.00 | |
| Change Over Sub | 1.00 | | | 4318.00 | |
| Drill Pipe | 63.00 | | | 4381.00 | |
| Change Over Sub | 1.00 | | | 4382.00 | |
| Perforations | 16.00 | | | 4398.00 | 98.00 Tool Interval |
| Packer | 4.00 | | | 4402.00 | |
| Stubb | 1.00 | | | 4403.00 | |
| Blank Off Sub | 1.00 | | | 4404.00 | |
| Recorder | 0.00 | 8969 | Below | 4404.00 | |
| Perforations | 1.00 | | | 4405.00 | |
| Change Over Sub | 1.00 | | | 4406.00 | |
| Drill Pipe | 61.00 | | | 4467.00 | |
| Change Over Sub | 1.00 | | | 4468.00 | |
| Bullnose | 3.00 | | | 4471.00 | 73.00 Bottom Packers & Anchor |
| Total Tool Length: | 201.00 | | | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stewart Producers

30-18-24w Ness,KS

PO Box 546
MT. Vernon, IL 62864

H&H #1-30

Job Ticket: 47664

DST#: 1

ATTN: Aaron Young

Test Start: 2021.12.06 @ 08:06:16

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: 5.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|----------------|---------------|
| 237.00 | 1% Oil 99% Mud | 2.268 |

Total Length: 237.00 ft Total Volume: 2.268 bbl

Num Fluid Samples: 0

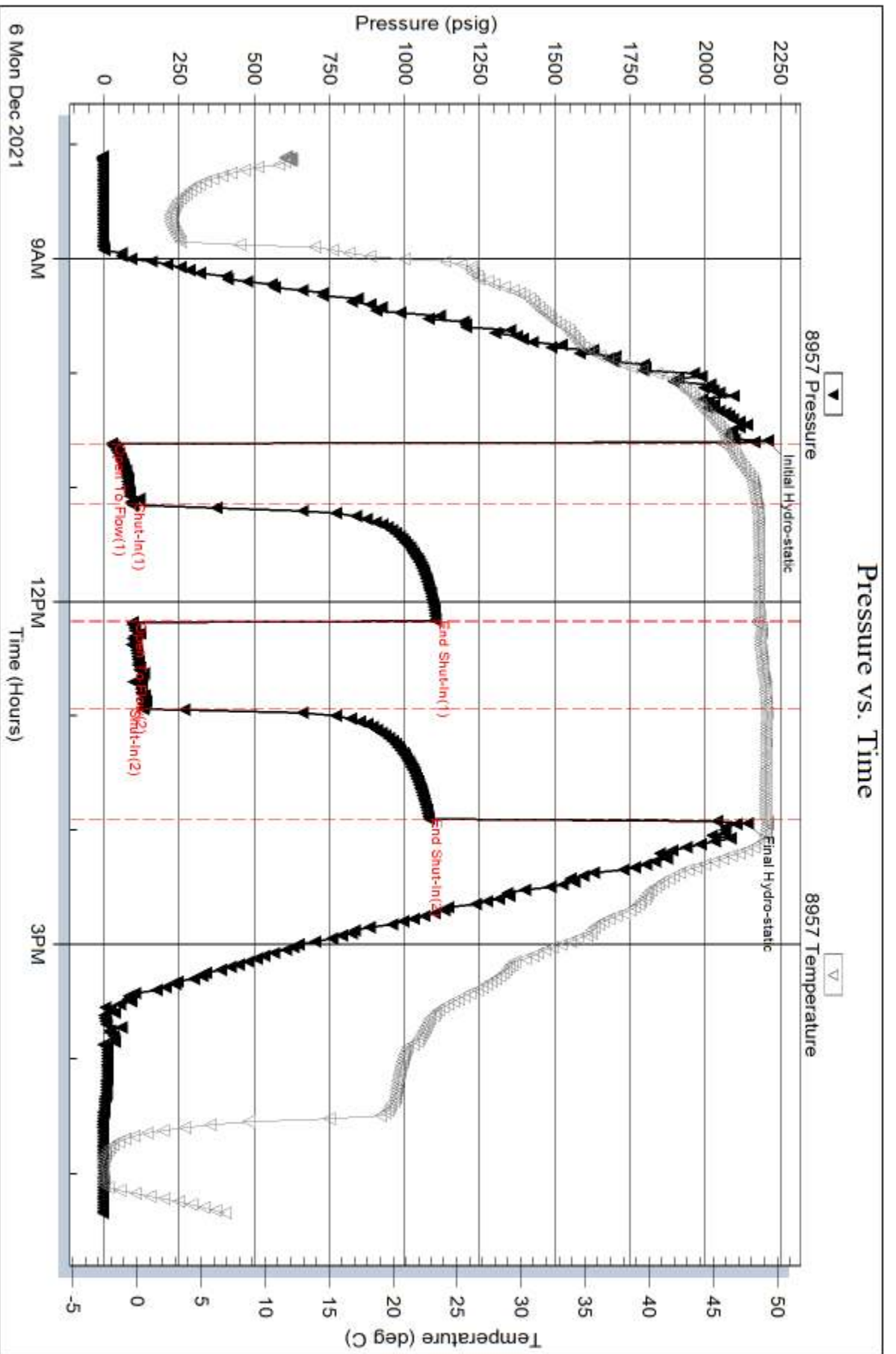
Num Gas Bombs: 0

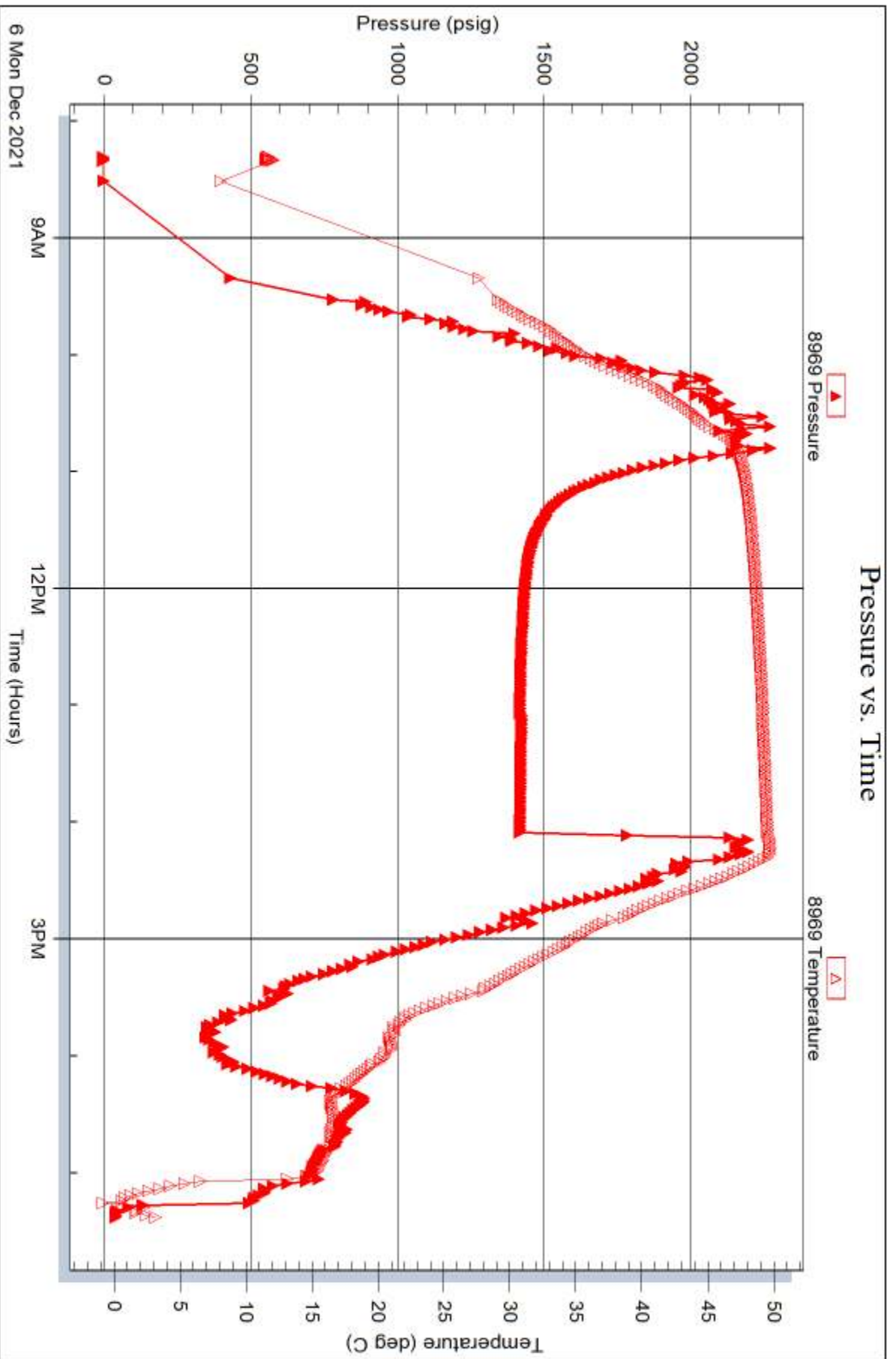
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2# LCM





Test Ticket

NO. 47664

TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Well Name & No. H 2 H #1-30 Test No. 1 Date 12/6/21
 Company Stewart Products Elevation 2356 KB 2349 GL
 Address 301 N 27 ST PO BOX 546 MT. VERNON, IA 62864
 Co. Rep / Geo. Aaron Young Rig Pickrell 10
 Location: Sec. 30 Twp. 18 Rge. 24W Co. Miss State Ks

Interval Tested 4300 - 4398 Zone Tested FT. Scott - Cherokee
 Anchor Length 98' Drill Pipe Run 4164 Mud Wt. 9.2
 Top Packer Depth 4300 Drill Collars Run 116 Vis 54
 Bottom Packer Depth 4398 Wt. Pipe Run 0 WL 5.8
 Total Depth 4466 Chlorides 4800 ppm System LCM 2 #

Blow Description IF - Wsb built to 7"
ISI - NO blow back
EF - Wsb built to 6.5"
FSI - NO returns

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|--------------|------|------|--------|-----------|
| <u>237</u> | <u>VSOCM</u> | | | | <u>99</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 237 BHT Gravity 1450 API RW 1450 @ 830 °F Chlorides 4800 ppm

(A) Initial Hydrostatic 2207 Test 1450 T-On Location 830
 (B) First Initial Flow 26 Jars 250 T-Started 11:00
 (C) First Final Flow ~~1492~~ 92 Safety Joint 75 T-Open 13:29
 (D) Initial Shut-In ~~1104~~ 1104 Circ Sub _____ T-Pulled 1644
 (E) Second Initial Flow ~~132~~ 96 Hourly Standby _____ T-Out 20:00
 (F) Second Final Flow ~~1079~~ 132 Mileage 98rt 122.50 Comments EM Tool 350
 (G) Final Shut-In 1079 Sampler _____ EM TOOL didn't work
 (H) Final Hydrostatic 21040 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 2497.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 2497.50

Initial Open 30
 Initial Shut-In 60
 Final Flow 45
 Final Shut-In 60

Approved By _____ Our Representative Kevin Webster

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.

Geologic Report
Aaron L. Young

Drilling Time and Sample Log

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

Well Name: H&H #1-30
API: 15-135-26122
Location: Section 30 - T18S - R24W
License Number: 34996
Spud Date: 11 / 30 / 2021
Surface Coordinates: 1271' FSL and 2253 FEL
Approx. NE - NW - SW - SE
Region: Ness Co., KS
Drilling Completed: 12 / 5 / 2021

**Bottom Hole
Coordinates:**
Ground Elevation (ft): 2348' **K.B. Elevation (ft):** 2355'
Logged Interval (ft): 4000' **To:** 4466' **Total Depth (ft):** 4466'
Formation: Mississippian
Type of Drilling Fluid: Chemical - Mud-Co

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

OPERATOR

Company: Stewart Producers, Inc
Address: PO BOX 546
Mt. Vernon, IL 62864

GEOLOGIST

Name: Aaron L. Young, M.S.
Company: Young Consulting, LLC
Address: 100 S. Main, Suite 505
Wichita, Kansas 67202

General Info

CONTRACTOR: Pickrell Drilling, Rig #10

BIT RECORD:

| No. | Size | Make | Jets | Out | Feet | Hours |
|-----|--------|-------------|----------|------|------|-------|
| 1 | 12-1/4 | Smith | 15-15-15 | 247 | 247 | 5.5 |
| 2 | 7-7/8 | Smith MI616 | 15-15-15 | 4466 | 4219 | 72.5 |

SURVEYS: 247'-.75, 762'-.25, 1397'-.75, 1937'-.75, 2254'-.50, 4466'-1.25

GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 10,000 - 14,000 lbs. on bit and approx 80-90 RPM.
Running 9 stands of collars; 530.44'
Pumping approx 800 psi at standpipe.

Daily Status

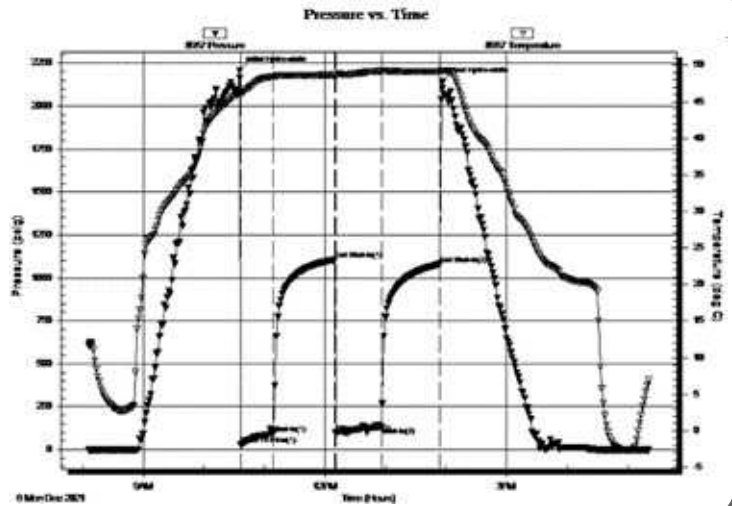
11/30/21 - Spud at 7:00pm. Ran 6 jts of 8 5/8" 23# casing set at 245'(tally 236'). Cem w/ 150 sx Standard 3% cc & 2% gel. Cem did Circulate. PD @ 3:15am 12/01/21
 12/01/21 - WOC @ 247'
 12/02/21 - Drilling @ 1032'
 12/03/21 - Drilling @ 2571'
 12/04/21 - Drilling @ 3475'
 12/05/21 - Drilling @ 4255'
 12/06/21 - RTD @ 4466', Running E-logs, Ran straddle DST #1 4300' - 4398'
 12/07/21 - P&A as follows: 50sx @ 1640', 80sx @ 1640', 80sx @ 930', 50sx @ 270', 20sx @ 60', 30sx in RH, 60-40 Pozmix, 4% gel, 1/4# floeal/sx. PD @ 4:55am, 12/07/21

DST #1 FT. SCOTT & CHEROKEE
 4300'-4398'
 30" - 60" - 45" - 60"

IF: Weak surface blow, built to 7"
 ISI: No return
 FF: Weak surface blow, built to 6.5"
 FSI: No return

Rec'd: 237' Oil spotted mud (1% O, 99% M)

SIPs: 1105-1079 FPs: 27-92#, 96-132# HPs: 2207-2141#



ROCK TYPES

| | |
|--|-------|
| | Anhy |
| | Bent |
| | Brec |
| | Cht |
| | Clyst |
| | Coal |
| | Congl |
| | Dol |

| | |
|--|-------|
| | Gyp |
| | Igne |
| | Lmst |
| | Meta |
| | Mrlst |
| | Salt |
| | Shale |
| | Shcol |

| | |
|--|---------|
| | Shgy |
| | Slstst |
| | Ss |
| | Till |
| | Carb sh |
| | Dol |
| | Dtd |
| | Gry sh |

| | |
|--|----------|
| | Sandylms |
| | Shale |
| | Slststn |
| | Shlyslts |
| | Sltysh |
| | Lms |

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sltly

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram

- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh

- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

OIL SHOWS

- Even
- Spotted
- Ques
- Dead
- Gas show

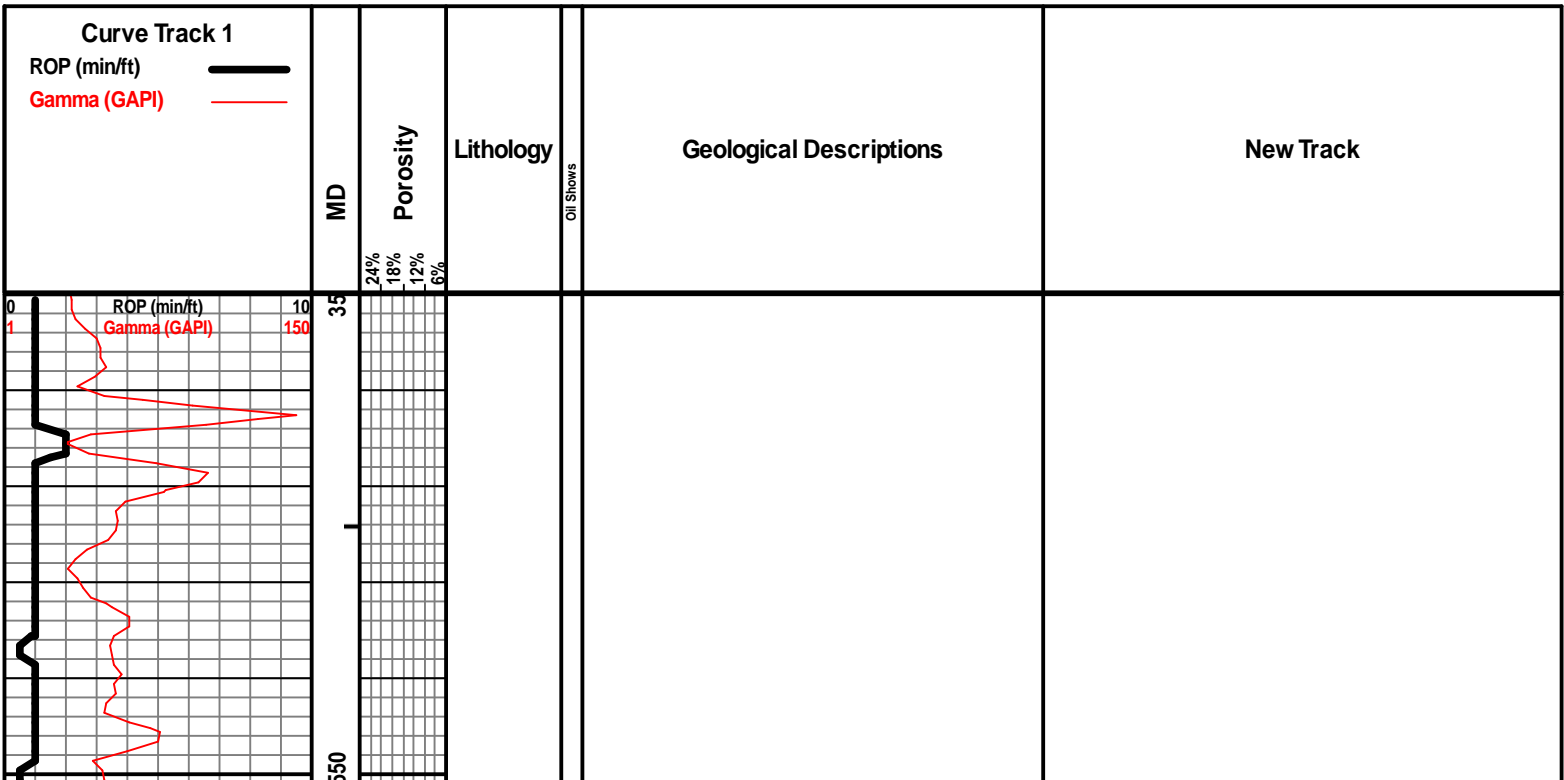
INTERVALS

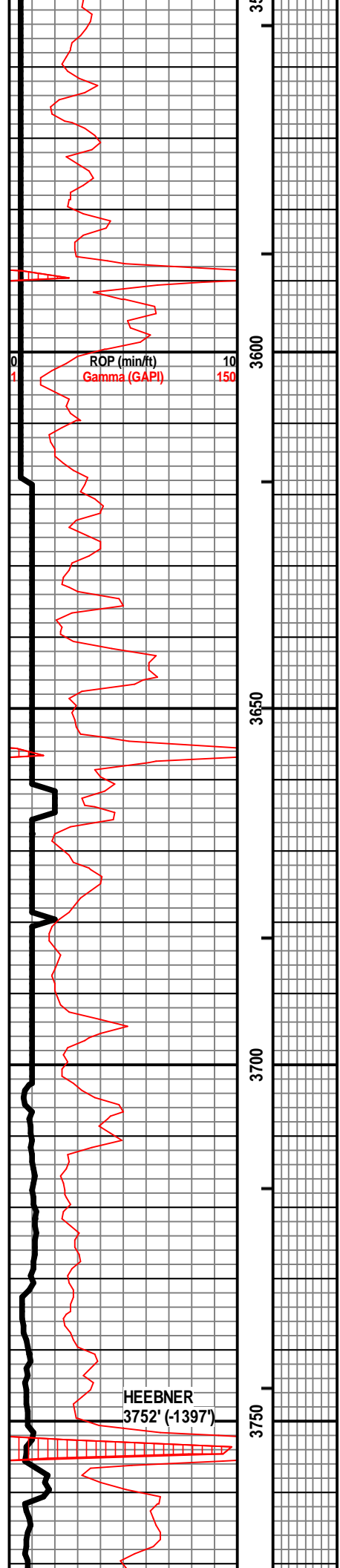
- Core
- Dst

- Dst

EVENTS

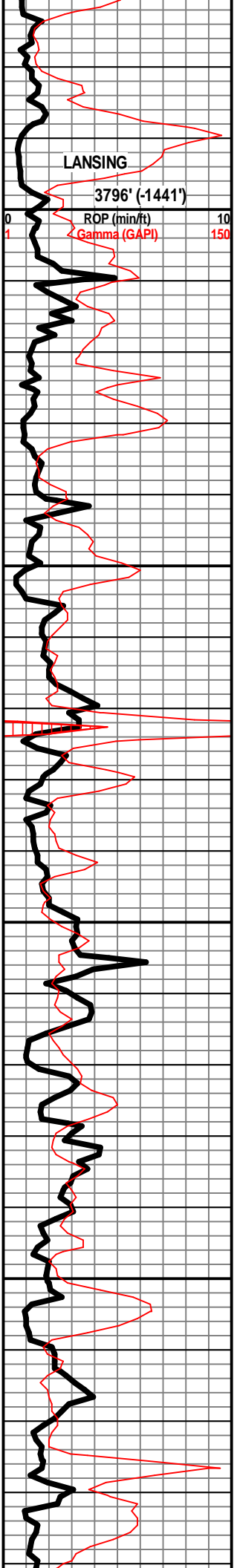
- Rft
- Sidewall
- Conn





WT 8.6
VIS 60
LCM 3#

WT 8.7
VIS 65
LCM 2#



LANSING

3796' (-1441')

ROP (min/ft)

Gamma (GAPI)

3800

3850

3900

3950

WT 8.4
VIS 60
LCM 3#

LS - CRM, F / VF XLN, MOD DNS / DNS,
SUBCHKY IN FEW PIECES

SH - CRM / MAR / RD-ORNG, W/ LS - CRM, VF / F

XLN, SUBCHKY / MOD DNS

WT 8.6
VIS 53
LCM 1#

LS - CRM / TAN, F / VF XLN, MOD DNS,
SUBCHKY, W/ SH - GRN / GY / MAR

SH - GRN, W/ LS - CRM / TAN, F XLN, MOD DNS
/ DNS

LS - CRM / TAN, F / VF XLN, MOD DNS /
SUBCHKY, W/ SH - GRN / GY / MAR

LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS, V FOSS IN PT,
W/ SH - GY / GRN, W/ FEW SCAT PIECES OF CHT - WHT / GY,
SLI TRANSLUCNT, FRSH, OOLITIC

LS - CRM, F / M XLN, DNS / V DNS, FOSS IN PT,
W/ FEW PIECE OF LS - WHT, V CHKY

SH - BLK, CARB, SLI SHO OF GAS BUB, W/ LS -
CRM / TAN, VF XLN, MOD DNS, V BRITTLE,
SUBCHKY IN PT, W/ SH - RD / GRN

LS - TAN / GY, F / M XLN, DNS / V DNS

LS - CRM / TAN, F / VF XLN, MOD DNS /
SUBCHKY, DNS IN PT

SH - BLK, CARB, SLI SHO OF GAS BUB

LS - CRM / TAN / GY, F XLN, DNS / MOD DNS,
FOSS IN PT

LS - CRM / TAN / LT GY, VF / F XLN, MOD DNS,
BRITTLE

LS - CRM / TAN, VF / F XLN, MOD DNS /
SUBCHKY

LS - CRM / WHT, VF XLN, SUBCHKY / CHKY, W/
SH - BLK, CARB, SLI SHO OF GAS BUB

LS - CRM / WHT, VF XLN, SUBCHKY / CHKY, W/ SH - GRN /
RD, W/ SCAT PIECES OF CHT - TAN / WHT, SLI
TRANSLUCNT, FRSH, ABUND FOSS

SH - BLK, CARB, W/ LS - CRM / WHT, VF / F
XLN, PRED SUBCHKY / MOD DNS, CHKY IN PT,
DNS IN PT

LS - TAN / CRM, VF / F XLN, MOD DNS / DNS,
W/ SH - LT GRN / LT GY, PYRITIC IN PT

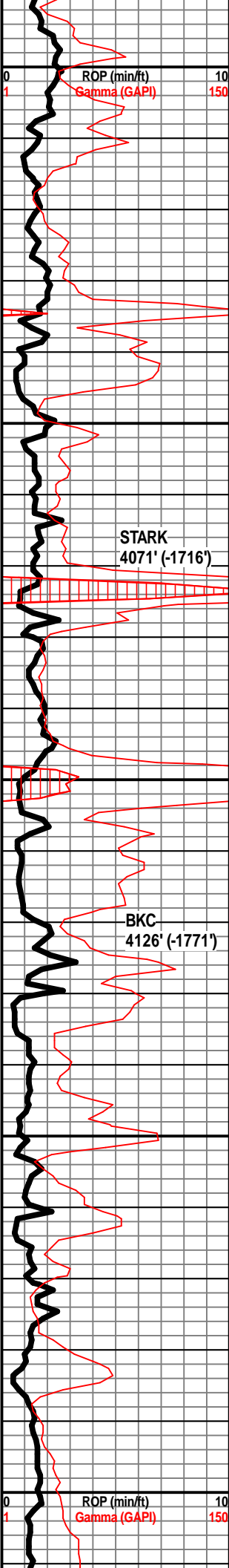
LS - TAN / CRM, F / VF XLN, MOD DNS /
SUBCHKY

LS - CRM, VF XLN, SUBCHKY, W/ SH -
RDISH-BRN, LT GRN IN PT

LS - CRM / TAN / GY, F / VF XLN, DNS / MOD
DNS / SUBCHKY, FOSS IN PT, SNDY IN FEW
PIECES, W/ SH - RDISH-BRN, GRN / GY IN PT

LS - CRM / TAN / GY, VF XLN, MOD DNS

LS - GY, F XLN, MOD DNS / DNS



ROP (min/ft) 0 10
Gamma (GAPI) 1 150

STARK
4071' (-1716')

BKC
4126' (-1771')

ROP (min/ft) 0 10
Gamma (GAPI) 1 150

PAWNEE
4221' (-1866')

SH - DK GY / BLK, CARB, W/ SH - RD-ORNG / MAR / GRN, W/ LS - TAN / CRM / GY, F XLN, MOD DNS / DNS, FOSS IN PT

LS - GY, VF / F XLN, MOD DNS / DNS, FOSS

LS - GY, VF / F XLN, MOD DNS / DNS

LS - GY / DK GY, VF / F XLN, MOD DNS, ARG IN PT

LS - DK GY, VF XLN, MOD DNS, ARG, V HOMOGENEOUS

WT 8.9
VIS 55
LCM 2#
FILT 7.2
CHL 4,500

FT. SCOTT
4296' (-1941')

SH - BLK, G SHO OF GAS BUB

LS - CRM / TAN, F / M XLN, MOD DNS / DSN, ABUND FOSS, SLI PYRITIC IN FEW PIECES, NO VIS POR, NS

CFS @ 4304'

DST #1 FT. SCOTT & CHEROKEE
4300'-4398'
30" - 60" - 45" - 60"

CHEROKEE
4318' (-1963')

LS - CRM, F XLN, P / F / G INTERXLN & VUG POR, FSFO, V LT BRN OIL, SHO OF GAS WHEN BRKN, SLI CUP ODOR, BRI YEL GRN FLUOR IN SHO ROCKS

SH - BLK, CARB, W/ LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS IN PT

IF: Weak surface blow, built to 7"
ISI: No return
FF: Weak surface blow, built to 6.5"
FSI: No return

CFS @ 4316'

LS - TAN / GY, F / VF XLN, DNS / MOD DNS, FOSS IN TAN ROCKS, W/ SH - GY

SH - BLK, CARB, W/ LS - TAN / GY / CRM, F / M XLN, MOD DNS / DNS, FOSS IN PT

Rec'd: 237' Oil spotted mud (1% O, 99% M)

SH - LT GRN / GY, DNS, W/ LS - CRM, VF XLN, VPINTERXLN POR, VSSFO WHEN BRKN, NO ODOR, BRI YEL-GRN FLUOR IN FEW SHO ROCKS

IH: 2207#
IF: 27-92#
ISI: 1105#
FF: 96-132#
FSI: 1079#
FH: 2141#

4350

SH - GRN / GY / MAR / RD-ORNG / YEL / PURP, W/ LS - CRM / TAN / GY, F XLN, MOD DNS / DNS, FOSS, FEW SCAT SS CLUSTERS - WHT / GY, F XLN, W RND, W SRTD, MOD CEM, ARG IN PT, P INTERGR POR, NS, NO ODOR

CHT - WHT / TAN / YEL / GY, OPAQ, PRED FRSH, P / F / G WEATH POR IN 10%, FSFO, F CUP ODOR, BLEADING LT BRN OIL DROPLETS, OIL HAS G FLUOR, ROCKS HAVE NO FLUOR, SCAT SS CLUSTERS - WHT / YEL / GY, PRED ARG, VF GR, W RND, W SRTD, MOD CEM, NS

CHT - WHT / TAN, OPAQ, FRSH, W/ SCAT SS CLUSTERS, F GR, W RND, W SRTD, PRED ARG, NS, W/ SH - GRN / RD / YEL, FEW PIES OF DOLO - TAN, F XLN, DNS

WT 9.2+
VIS 55
LCM 1.5#

MISS
4393' (-2038')

DOLO - TAN / CRM, F / M XLN, P / F INTERXLN, INTERPART, & VUG POR, FSFO, ABUND FOSS, LT BRN OIL, F CUP ODOR, MOD YEL-GRN FLUOR, CHTY IN PT - TAN, FRSH, SLI TRANSLUNT, FOSS, DNS

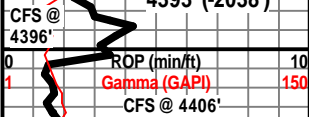
DOLO - TAN / CRM, F / M XLN, P / INTERXLN & INTER PART POR, ABUND OF VUGS, SSFO, ABUND FOSS, F CUP ODOR, MOD YEL-GRN FLUOR

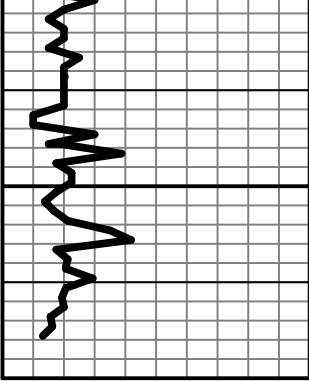
DOLO - TAN / CRM, F / M XLN, P INTERXLN & VUG POR, SSFO WHEN BRKN, PRED LIVE OIL DROPLETS, TWO PIECES HAD DEAD FLAKEY OIL, F CUP ODOR, MOD YEL-GRN FLUOR

WT 9.3
VIS 54
LCM 2#

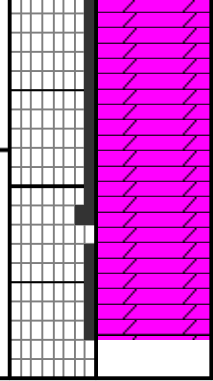
DOLO - TAN, F / M XLN, FOSS, P INTERXLN & VUG POR IN PT, PRED BARREN FEW OIL DROPLETS IN FEW PIECE WHEN BRKN, TIGHT, DEAD OIL IN PT, SLI CUP ODOR, V SLIGHT

4400





4450



YEL-GRN FLUOR

DOLO - CRM / TAN, M / F / VF XLN, PRED DNS, MOD DNS /
SUBCHKY IN PT, P INTERXLN & VUG POR IN PT, NS

DOLO - CRM / TAN, VF / F XLN, PRED MOD DNS / SUBCHKY,
CHKY / V CHKY IN PT

DOLO - TAN / CRM, VF / F XLN, PRED MOD DNS,
SUBCHKY IN PT, P INTERXLN & VUG POR IN
PT, NS

RTD 4466'

WT 9.2
VIS 54
LCM 2#
FILT 5.8
CHL 4,800