

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: | |
|----------------|-------|---------|------------|--|

| | |
|-----------|---------------------------|
| Form | ACO1 - Well Completion |
| Operator | Shakespeare Oil Co., Inc. |
| Well Name | SCHAFFER 1-3 |
| Doc ID | 1488190 |

Tops

| Name | Top | Datum |
|--------------|------|-------|
| Anhydrite | 1597 | +843 |
| Heebner | 4010 | -1570 |
| Muncie Creek | 4261 | -1821 |
| Hushpuckney | 4418 | -1978 |
| Marmaton | 4510 | -2070 |
| Pawnee | 4578 | -2138 |
| Ft Scott | 4638 | -2198 |
| Conglomerate | 4712 | -2272 |
| Mississpiian | 4735 | -2295 |

SWIFT



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



Invoice

| | |
|------------|-----------|
| DATE | INVOICE # |
| 10/25/2019 | 32654 |

| |
|---|
| BILL TO |
| Shakespeare Oil Company, Inc 202 West Main Street Salem, IL 62881 |

- Acidizing
- Cement
- Tool Rental

INT

| TERMS | Well No. | Lease | County | Contractor | Well Type | Well Category | Job Purpose | Operator |
|------------|---|----------|----------|------------------|-----------|---------------|-------------|-----------|
| Net 30 | #1-3 | Schaffer | Hodgeman | Duke Drlg Rig #4 | Oil | Development | Surface | Jonathan |
| PRICE REF. | DESCRIPTION | | | | QTY | UM | UNIT PRICE | AMOUNT |
| 575D | Mileage - 1 Way | | | | 40 | Miles | 5.00 | 200.00 |
| 576D-S | Pump Charge - Shallow Surface (< 500 Ft.) | | | | 1 | Job | 925.00 | 925.00 |
| 290 | D-Air | | | | 2 | Gallon(s) | 42.00 | 84.00T |
| 325 | Standard Cement | | | | 175 | Sacks | 13.50 | 2,362.50T |
| 278 | Calcium Chloride | | | | 8 | Sack(s) | 40.00 | 320.00T |
| 279 | Bentonite Gel | | | | 3 | Sack(s) | 30.00 | 90.00T |
| 581D | Service Charge Cement | | | | 175 | Sacks | 1.85 | 323.75 |
| 583D | Drayage | | | | 343 | Ton Miles | 0.95 | 325.85 |
| | Subtotal | | | | | | | 4,631.10 |
| | Sales Tax Hodgeman County | | | | | | 7.65% | 218.52 |

RECEIVED

NOV 01 2019

*502-5
OK*

We Appreciate Your Business!

Total

\$4,849.62

DW



CHARGE TO: *Shakespeare Oil Co*
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 032654

PAGE 1 OF 1

WELL/PROJECT NO. *13* LEASE *Schaffer* COUNTY/PARISH *Houma* STATE *KS* CITY *Location* DATE *10/25/19* OWNER
 TICKET TYPE SERVICE SALES CONTRACTOR *Dale Drilling* RIG NAME/NO. *#4* SHIPPED VIA *CT* DELIVERED TO
 WELL TYPE *Oil* WELL CATEGORY *New* JOB PURPOSE *Surface* WELL PERMIT NO.
 REFERRAL LOCATION INVOICE INSTRUCTIONS

| PRICE REFERENCE | SECONDARY REFERENCE/ PART NUMBER | ACCOUNTING | | DESCRIPTION | QTY. | U/M | QTY. | U/M | UNIT PRICE | AMOUNT |
|-----------------|-------------------------------------|------------|------|---|------|-----|------|-----|------------|---------|
| | | LOC | ACCT | | | | | | | |
| 575 | | 1 | | | 40 | mi | | | 5.00 | 200.00 |
| 576.5 | | 1 | | MILEAGE # 13 | 1 | EA | | | 925.00 | 925.00 |
| 290 | | 1 | | Pump Charge - Shallow Surface Dr Air | 2 | gal | | | 42.00 | 84.00 |
| 325 | | 2 | | Standard Cement | 175 | sks | | | 13.50 | 2362.50 |
| 278 | | 2 | | Calcium Chloride | 8 | sks | | | 40.00 | 320.00 |
| 279 | | 2 | | Bentonite Gel | 3 | sks | | | 30.00 | 90.00 |
| 581 | | 2 | | Service Charge Cement | 175 | sks | | | 1.85 | 323.75 |
| 583 | | 2 | | Drayage | 343 | TM | | | 0.15 | 51.45 |

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.

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

SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? AGREE DISAGREE
 WE UNDERSTOOD AND MET YOUR NEEDS? YES NO
 OUR SERVICE WAS PERFORMED WITHOUT DELAY? YES NO
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? YES NO
 ARE YOU SATISFIED WITH OUR SERVICE? YES NO
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 4631.00

TOTAL 4849.00

Hudgeman 218 52

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

SWIFT OPERATOR *[Signature]* APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 10/25/19 PAGE NO. 1

CUSTOMER Shakespeare Oil Co WELL NO. 1-3 LEASE Schatter JOB TYPE Surface TICKET NO. 32654

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
|-----------|------|------------|--------------------|-------|---|----------------|--------|--|
| | | | | T | C | TUBING | CASING | |
| | 1515 | | | | | | | On location, set up truck, Rig Running Casing, 1 st JT, 264' of 8 5/8 x 23 [#] |
| | 1600 | | | | | | | Break Circulation |
| | 1615 | | | | | | | Hook up to Swift |
| | | 4 | 5 | | | 200 | | Start Water ahead |
| | | 4 | | | | 200 | | Start Cmt |
| | | 4 | 42 | | | 250 | | Fin Cmt, Start Displacement |
| | | 4 | 15 1/2 | | | 250 | | Fin Displacement, Cmt Circulated. |
| | 1645 | | | | | | | Shut in Release Truck Washup Pack up |
| | 1700 | | | | | | | Job Complete |

Thanks
Jon, Austin, Isaac

SWIFT



Services, Inc.

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



Invoice

| | |
|-----------|-----------|
| DATE | INVOICE # |
| 11/4/2019 | 32803 |

| |
|---|
| BILL TO |
| Shakespeare Oil Company, Inc 202 West Main Street Salem, IL 62881 |

- Acidizing
- Cement
- Tool Rental

INT
~~PAID~~

| TERMS | Well No. | Lease | County | Contractor | Well Type | Well Category | Job Purpose | Operator |
|------------|-----------------------------|----------|----------|------------------|-----------|---------------|-------------------|-----------|
| Net 30 | #1-3 | Schaffer | Hodgeman | Duke Drlg Rig #4 | Oil | Development | Cement Longstring | Blaine |
| PRICE REF. | DESCRIPTION | | | | QTY | UM | UNIT PRICE | AMOUNT |
| 575D | Mileage - 1 Way | | | | 40 | Miles | 5.00 | 200.00 |
| 578D-L | Pump Charge - Long String | | | | 1 | Job | 1,400.00 | 1,400.00 |
| 325 | Standard Cement | | | | 175 | Sacks | 13.50 | 2,362.50T |
| 284 | Calseal | | | | 8 | Sack(s) | 40.00 | 320.00T |
| 283 | Salt | | | | 900 | Lb(s) | 0.25 | 225.00T |
| 277 | Gilsonite (Coal Seal) | | | | 875 | Lb(s) | 1.25 | 1,093.75T |
| 292 | Halad 322 | | | | 165 | Lb(s) | 8.50 | 1,402.50T |
| 276 | Flocele | | | | 25 | Lb(s) | 3.00 | 75.00T |
| 280 | Flocheck 21 | | | | 500 | Gallon(s) | 3.50 | 1,750.00T |
| 221 | Liquid KCL (Clayfix) | | | | 2 | Gallon(s) | 25.00 | 50.00 |
| 419-5 | 5 1/2" Rotating Head Rental | | | | 1 | Each | 250.00 | 250.00T |
| 290 | D-Air | | | | 2 | Gallon(s) | 42.00 | 84.00T |
| 581D | Service Charge Cement | | | | 175 | Sacks | 1.85 | 323.75 |
| 583D | Drayage | | | | 384.3 | Ton Miles | 0.95 | 365.09 |
| | Subtotal | | | | | | | 9,901.59 |
| | Sales Tax Hodgeman County | | | | | | 7.65% | 578.55 |

RECEIVED
NOV 11 2019

502-5
DH

We Appreciate Your Business!

Total

\$10,480.14

DW



TICKET 032803

CHARGE TO: Shakespeare
 ADDRESS
 CITY, STATE, ZIP CODE

PAGE 1 OF 2

SERVICE LOCATIONS
 1. Neosho KS WELL/PROJECT NO. 1-3 LEASE Schaffer COUNTY/PARISH Hodgeeman STATE KS CITY Jetmore DATE 4 Nov 19 OWNER
 2. SERVICE CONTRACTOR DUKE RIG NAME/NO. 4 SHIPPED VIA ET DELIVERED TO location ORDER NO.
 3. WELL TYPE oil WELL CATEGORY Development JOB PURPOSE cement log string WELL PERMIT NO. 3-24-23 WELL LOCATION
 4. INVOICE INSTRUCTIONS

| PRICE REFERENCE | SECONDARY REFERENCE/PART NUMBER | ACCOUNTING | | DESCRIPTION | QTY. | U/M | QTY. | U/M | UNIT PRICE | AMOUNT |
|-----------------|---------------------------------|------------|------|---------------------------|------|-----|------|-----|------------|---------|
| | | LOC | ACCT | | | | | | | |
| 575 | 1 | | | MILEAGE | 40 | mi. | | | 5.00 | 200.00 |
| 578 | 1 | | | Pump Charge | 1 | ea | | | 1400.00 | 1400.00 |
| 325 | 1 | | | Standard Cement (loc est) | 175 | sk | | | 13.00 | 2362.50 |
| 284 | 1 | | | casual | 800 | lb | 8 | sk | 40.00 | 3200.00 |
| 283 | 1 | | | salt | 900 | lb | | | 0.25 | 225.00 |
| 277 | 1 | | | Gilsonite | 875 | lb | | | 1.25 | 1093.75 |
| 292 | 1 | | | Water-322 | 165 | lb | | | 8.50 | 1402.50 |
| 276 | 1 | | | Floclor | 25 | lb | | | 3.00 | 75.00 |
| 280 | 1 | | | Floclor | 500 | gal | | | 3.50 | 1750.00 |
| 221 | 1 | | | KCL - Liquid | 2 | gal | | | 25.00 | 50.00 |
| 419 | 1 | | | Rotating head rental | 5 | hr | 1 | ea | 250.00 | 250.00 |

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.

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

SURVEY
 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?
 YES NO CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 9128.75
 772.84
 9901.59

TOTAL 10480.14

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

SWIFT OPERATOR ABall APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 4 NOV 19 PAGE NO. 1

CUSTOMER Shakespeare WELL NO. 1-3 LEASE Schaffer JOB TYPE Cement long string TICKET NO. 32803

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
|-----------|------|------------|-----------------------|-------|---|----------------|--------|---|
| | | | | T | C | TUBING | CASING | |
| | | | | | | | | 175 sk EA-2 cement w/ #5 Gilsomite 5 1/2 x 1 1/4" casing 4826' TD = 4817 PC - 1551' shoejt 42.35' |
| | 1300 | | | | | | | onloc TR 114 |
| | 1324 | | | | | | | start 5 1/2 x 1 1/4" casing in well |
| | 1630 | | | | | | | Drop ball - circulate - ROTATE |
| | 1730 | 3 | 15 | | | 100 | | pump 15 bbl KCL flush |
| | | 3 | 12 | | | 100 | | 500 gal Flocheck 21 |
| | | 3 | 5 | | | 100 | | 5 bbl KCL flush |
| | 1740 | | 7 | | | | | Plug RH - ### 305k - 205k |
| | 1745 | 3 1/2 | 35 | | | 200 | | MIX EA2 cement 145sk @ 15.3ppg |
| | 1802 | | | | | | | Drop patch DOWN plug wash out Pump & Line |
| | 1808 | 6 1/2 | | | | 200 | | Displace plug |
| | | 6 | 110 | | | 1000 | | |
| | 1830 | 5 1/2 | 117 100 | | | 1700 | | Land plug |
| | | | | | | | | Release pressure to truck - dried up wash truck Rack up |
| | 1850 | | | | | | | job complete thanks blane, Flit & spatch |

SWIFT



Services, Inc.

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



Invoice

| | |
|------------|-----------|
| DATE | INVOICE # |
| 11/13/2019 | 32810 |

| |
|---|
| BILL TO |
| Shakespeare Oil Company, Inc 202 West Main Street Salem, IL 62881 |

- Acidizing
- Cement
- Tool Rental

INT

| TERMS | Well No. | Lease | County | Contractor | Well Type | Well Category | Job Purpose | Operator |
|-------------------------------------|---|----------|----------|------------|-----------|---------------|--------------------|------------|
| Net 30 | #1-3 | Schaffer | Hodgeman | Cheyenne | Oil | Development | Cement Port Collar | Blaine |
| PRICE REF. | DESCRIPTION | | | | QTY | UM | UNIT PRICE | AMOUNT |
| 575D | Mileage - 1 Way | | | | 40 | Miles | 5.00 | 200.00 |
| 576D-D | Pump Charge - Deep Surface (> 500 Ft.) & Port Collars | | | | 1 | Job | 1,400.00 | 1,400.00 |
| 330 | Swift Multi-Density Standard (MIDCON II) | | | | 210 | Sacks | 17.00 | 3,570.00T |
| 276 | Flocele | | | | 50 | Lb(s) | 3.00 | 150.00T |
| 290 | D-Air | | | | 1 | Gallon(s) | 42.00 | 42.00T |
| 288 | Sand (20/40 Brady) | | | | 2 | Sack(s) | 22.00 | 44.00T |
| 581D | Service Charge Cement | | | | 225 | Sacks | 1.85 | 416.25 |
| 583D | Drayage | | | | 447.8 | Ton Miles | 0.95 | 425.41 |
| | Subtotal | | | | | | | 6,247.66 |
| | Sales Tax Hodgeman County | | | | | | 7.65% | 291.16 |
| | | | | | | | | |
| We Appreciate Your Business! | | | | | | | Total | \$6,538.82 |

502-5
DH

DW



CHARGE TO: Shakespear
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

TICKET 032810
 PAGE 1 OF 1

1. SERVICE LOCATIONS Wichita Ks WELL/PROJECT NO. 13 LEASE Schleser COUNTY/PARISH Hodgeman STATE KS CITY Jeter DATE 13 Nov 19 OWNER
 2. TICKET TYPE SERVICE SALES CONTRACTOR _____ RIG NAME/NO. _____ SHIPPED VIA OT DELIVERED TO location ORDER NO. _____
 3. WELL TYPE oil WELL CATEGORY Development JOB PURPOSE cannot put in use WELL PERMIT NO. _____
 4. REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

| PRICE FERENCE | SECONDARY REFERENCE/ PART NUMBER | ACCOUNTING | | | DESCRIPTION | MILEAGE | QTY. U/M | QTY. U/M | UNIT PRICE | AMOUNT |
|---------------|----------------------------------|------------|------|----|--------------------------|---------|----------|----------|------------|--------|
| | | LOC | ACCT | DF | | | | | | |
| 515 | | 1 | | | TRR 114 | 4D | 100 | | 515 | 20000 |
| 576D | | 1 | | | Fluid Charge (Post hole) | 1 | 10 | | 1400 | 14000 |
| 336 | | 1 | | | SWD cement | 210 | 62 | | 1700 | 357000 |
| 270 | | 1 | | | Fluide | 50 | 16 | | 3100 | 15000 |
| 290 | | 1 | | | D-ARE | 1 | 901 | | 4200 | 42000 |
| 288 | | 1 | | | SAND | 2 | 52 | | 2200 | 4400 |
| 581 | | 1 | | | SAND | 225 | 52 | | 185 | 41625 |
| 583 | | 1 | | | SAND, charge Drayage | 22389 | 16 | | 4778 | 107541 |

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.

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

SURVEY

| | | | |
|--|-------|-----------|----------|
| OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? | AGREE | UNDECIDED | DISAGREE |
| WE UNDERSTOOD AND MET YOUR NEEDS? | | | |
| OUR SERVICE HAS PERFORMED WITHOUT DELAY? | | | |
| WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? | | | |

ARE YOU SATISFIED WITH OUR SERVICE? YES NO
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 6 TOTAL 1588882

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR Bobell APPROVAL [Signature]
 Thank You!

JOB LOG

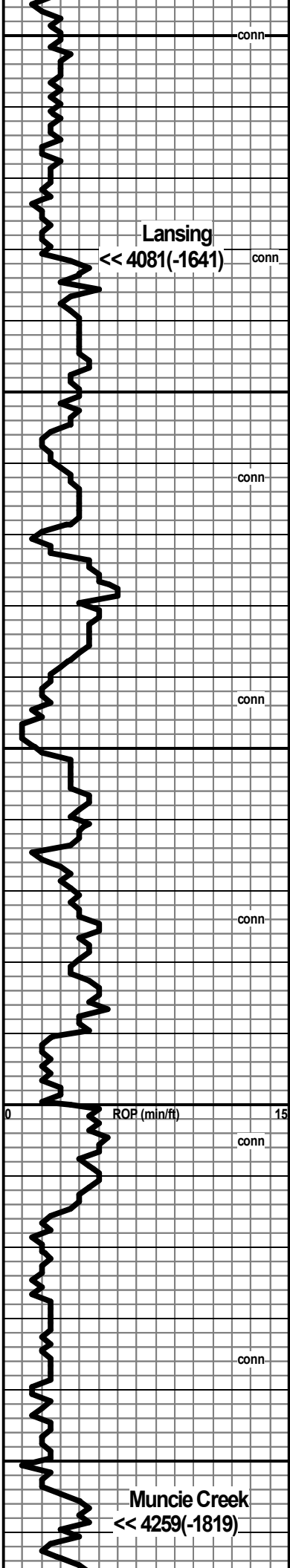
SWIFT Services, Inc.

DATE 13 NOV 14 PAGE NO. 1

CUSTOMER *Shakespeare* WELL NO. *1-3* LEASE *Schaffer* JOB TYPE *cement port collar* TICKET NO. *32810*

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
|-----------|-------------|--------------|--------------------|-------|---|----------------|-------------|---|
| | | | | T | C | TUBING | CASING | |
| | | | | | | | | <i>225 sk SMD cement w/ 1/4" floccule</i> <i>2 3/4 x 5 1/2 RFP - 38510 Port Collar 1552'</i> |
| | <i>0900</i> | | | | | | | <i>on loc 82K 114</i> |
| | <i>0930</i> | | <i>112</i> | | | | | <i>Roll hole</i> |
| | <i>1015</i> | | | | | <i>1000</i> | <i>1000</i> | <i>tubing to 3858 test to 1000 psi - hold</i> |
| | <i>1100</i> | | <i>8</i> | | | | | <i>spot 2 sks sand</i> <i>pull tubing to 1552'</i> |
| | <i>1240</i> | | | | | <i>1000</i> | <i>1000</i> | <i>Retest to 1000 psi - hold</i> |
| | | <i>3 1/2</i> | <i>3</i> | | | <i>350</i> | | <i>open port collar</i> <i>inj rate 3 1/2 bpm @ 350 psi</i> |
| | <i>1250</i> | <i>3 1/2</i> | | | | <i>350</i> | | <i>Mix SMD cement @ 11.2 ppg</i> <i>circulate fluid to port</i> |
| | | | | | | | | <i>→ cement to surface ←</i> |
| | <i>1319</i> | <i>3 1/2</i> | <i>112</i> | | | <i>200</i> | | <i>210 sk mixed</i> |
| | | <i>3 1/2</i> | <i>5 1/2</i> | | | <i>200</i> | | <i>Displace 5 1/2 bbl H₂O</i> <i>close port collar</i> |
| | <i>1340</i> | | | | | | | <i>Run 5 joints</i> |
| | <i>1405</i> | | | | | | | <i>Reverse hole clean</i> <i>- 2 cement plugs</i> |
| | <i>1430</i> | | | | | | | <i>Run down to wash sand off plug</i> |
| | <i>1510</i> | | <i>40</i> | | | | | <i>wash sand off plug</i> <i>Jan/off tool</i> |
| | <i>1540</i> | | | | | | | <i>back up</i> |
| | <i>1555</i> | | | | | | | <i>job complete</i> <i>Thanks</i> <i>Blaine Stone, Jr. P.M.T.</i> |

| <p>ROP (min/ft)</p> <p>ROP (min/ft) ———</p> | Depth | Lithology | Geological Descriptions | Remarks |
|---|-------------------------------------|--------------|---|--|
| <p>Anhydrite << 1595(+ 845)</p> <p>B/Anhydrite << 1620(+ 820)</p> <p>Heebner << 4006(-1566)</p> | <p>3900</p> <p>3950</p> <p>4000</p> | <p>Shows</p> | <p>Start 1' Drill Time & 10' Samples @ 3900'</p> <p>LS, cm-wh, fxln, foss & ool, F ipart por, NS, sft</p> <p>LS, gy-tan, vf-micln, chty, stly foss, NV por, hd</p> <p>LS AA + Abnt Shale, mar, gy & blk</p> <p>LS, bm-gy, ool-foss, F ipart por & F ixln por, NS + Cht, gy, opq</p> <p>LS, gy-tan, vf-micln, stly foss, NV por, dns + Shale, mar & gy w/ few pc's Cht, gy, opq</p> <p>Shale, blk carb</p> <p>LS, gy-tan, vf-micln, NV por, dns</p> <p>Shale, blk, gy & gn + Sltst, gy-gn</p> <p>LS, bm-gy, fxln, foss, Pixln por, m sft, NS</p> <p>LS, cm-wh, fxln, gran, ool & foss, chky IP, P-F ixln por, NS</p> | <p>Ran 16 stand short trip @ 3802' and 7th stand was very tight</p> <p>Vis 51 Wt 9.0 LCM 3#</p> <p>Geologist on location @ 3940'</p> |



4050
4100
4150
4200
4250

Most Shale, mar, gn & gy

Shale, gy, gn & mar

LS, cm-off wh, f-vfxln, ool-foss, chky-dns, rP oom por, NS
LS, tan-lt gy, vf-micxln, chky IP, NV por, m hd

Shale, gy-gn, silty

LS, wh-cm, f-vfxln, chky IP, sltly foss, rP vgy-pp por, NS, m hd-dns
LS, off wh-lt gy, vf-micxln, sltly foss, NV por, dns + Cht, gy-tan, opq-tmsl

LS AA+Shale, gy-gn & blk

LS, cm-gy, f-vfxln, sub ool-foss, rP pp por, chky-dns, NV por+LS, gy, fxln, arg, NV por, hd

LS, wh-lt gy, f-vfxln, NV por, chky IP-dns + few pc's Cht, gy-tan, tmsl

LS, gy-tan, fxln, ool, few pc's P iool por, NS, most LS, tan-gy, f-vfxln, chty IP, sltly foss, NV por, dns + Cht gy, opq

Shale, gy-gn

Abnt Cht, gy-tan, opq-tmsl + few pc's Dol, cm-wh, f-vfxln, F ixln por, NS

LS, cm-wh, f-vfxln, chky-ghty IP, NV por, dns

Dol, cm-wh, fxln, F ixln por, NS+LS, tan-wh, fxln, ool-foss, P ipart por, NS & Cht, tan-gy, opq

LS, tan-wh, fxln, ool & foss, P ipart & iool por, m hd, NS + few pc's Dol, wh, f-vfxln, F-P ixln por, NS & Cht, gy-tan, opq

Shale, blk, carb (flood 4280 spl)

Vis 49 Wt 9.2 LCM 2#

Ran 16 Stand Short Trip @4174'

Vis 47 Wt 9.2 LCM 1#

Lansing
-<< 4081(-1641)

Muncie Creek
-<< 4259(-1819)

ROP (min/ft)

conn

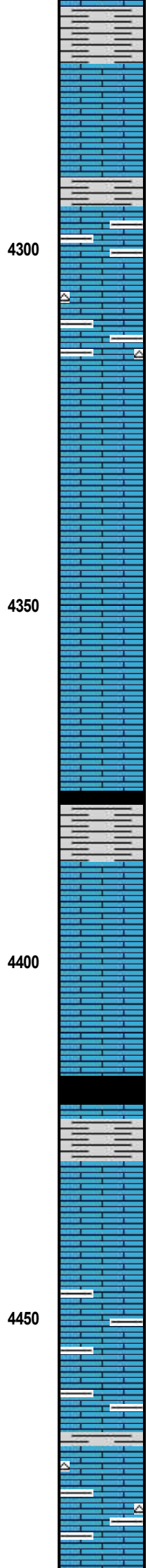
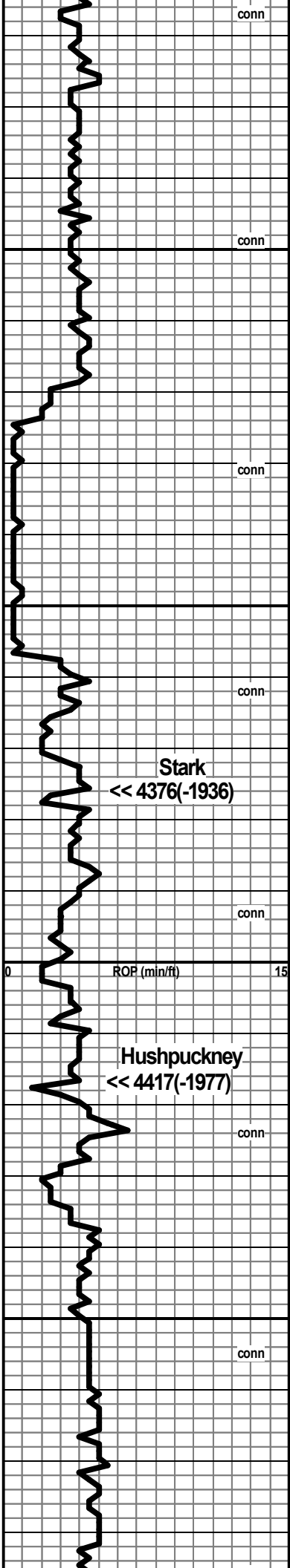
conn

conn

conn

conn

conn



Most shale, blk, gy & gn + LS, bm-gy, sub ool, P vgy por, hd, NS

LS, wh-cm, micxn, sharp, NV por, dns + LS, bm-cm, f-vfxn, sltly foss, NV por, hd & Abnt shale, vcol AA

Shale, blk & gn + LS, wh-lt gy, fxn, chky, ool, r P oom por, NS, most NV por, hd

LS, bm-cm, vf-micxn, chty IP, NV por, hd + Shale, blk & gn

LS, cm-wh, fxn, ool, G ooc & oom por, NSFO, N fluor, N odor

AA

LS, cm-wh-bm, fxn, ool, F-G ooc & oom por, NSFO, N fluor, N odor

LS, bm-tan, vf-micxn, ool, NV por, dns

LS, vf-micxn, chty IP, ool, sharp, P oom por, hd, NS

Shale, blk carb

Shale, blk, gy, gn & mar

LS, lt gy, vfxn, arg, NV por

LS, tan-lt gy-wh, f-vfxn, chky-arg, NV por, m hd

LS, gy-tan, vf-micxn, sltly foss, NV por, dns

Shale, blk carb

Shale, gy-gn

LS, gy-bm, vf-fxn, chky IP, sub ool-foss, r P vgy-pp por, NS, hd

LS, wh-lt gy-cm, vfxn, chky-chty IP, NV por, m hd

Most LS, wh-tan, vf-micxn, chky IP, sharp, NV por, hd + Shale, vcol

Abnt Shale, gy + LS, tan-gy, vf-micxn, chky-chty, NV por, m hd

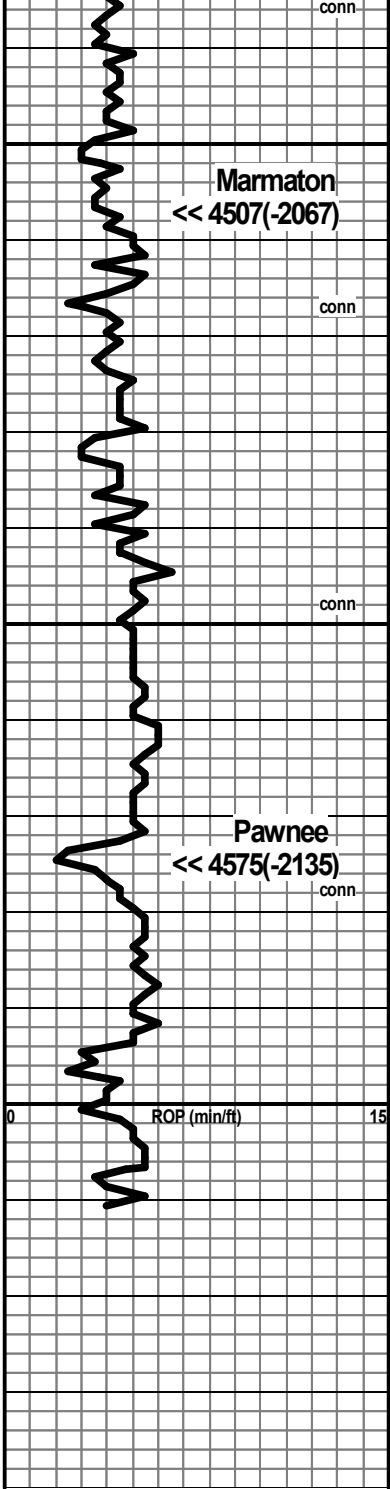
Shale, blk, gy-gn & mar + LS, wh-lt gy, vfxn, sharp, sub ool, NV por, hd + few pc's Cht, gy-bm, opq

AA

Vis 46 Wt 9.2 Fil 7.6 PH 11.0
 Chl 4,950 LCM 1#
 10/31/2019 @ 4296'

Vis 49 Wt 9.4 LCM 1#

Vis 45 Wt 9.5 LCM 1#



Marmaton
 << 4507(-2067)

Pawnee
 << 4575(-2135)

4500
 4550
 4600



Shale, blk sub carb, turq & gy +few pc's pyr

LS, gy-tan, f-vfxln, arg, few foss frag + Shale, gy & Stst gy-gn

LS, bm-wh, f-vfxln, NV por, chky IP-dns

Shale, blk carb

Shale, gy-gn & blk

LS, cm-tan, vf-micxn, stly foss, NV por, dns + Cht, tan, omg, vgt, opq-trmsl

LS, wh, f-vfxln, rP pp por, NS, dns

Shale, blk carb

Vis 43 Wt 9.3 LCM 1#

ROP (min/ft)

0 15



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil

3-24S-23W Hodgeman KS

202 W Main
Salem, IL 62881

Schaffer 1-3

ATTN: Steve Davis

Job Ticket: 65920

DST#: 1

Test Start: 2019.11.02 @ 00:27:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:35:47

Time Test Ended: 09:38:47

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Interval: 4710.00 ft (KB) To 4738.00 ft (KB) (TVD)

Reference Elevations: 2440.00 ft (KB)

Total Depth: 4738.00 ft (KB) (TVD)

2431.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8672

Inside

Press@RunDepth: 123.37 psig @ 4711.00 ft (KB)

Capacity: psig

Start Date: 2019.11.02

End Date:

2019.11.02

Last Calib.:

2019.11.02

Start Time: 00:27:01

End Time:

09:38:47

Time On Btm:

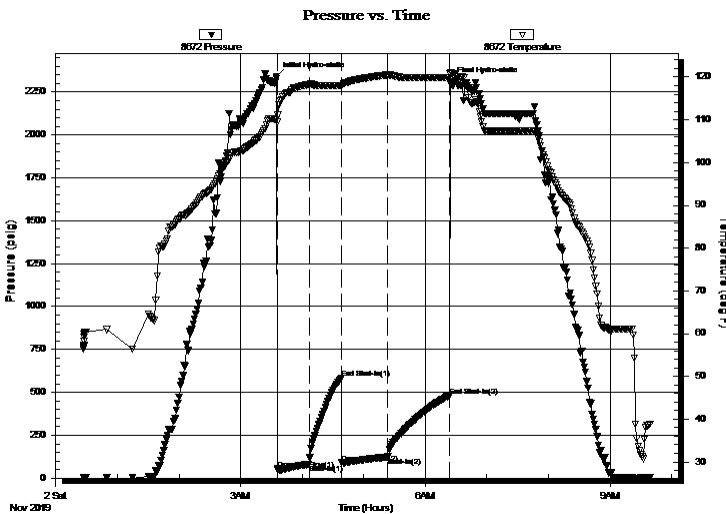
2019.11.02 @ 03:34:47

Time Off Btm:

2019.11.02 @ 06:24:17

TEST COMMENT: IF: Fair Blow , BOB in 14 minutes, Built to 23 inches
IS: No Blow Back
FF: Fair Blow , BOB in 14 minutes, Built to 26 inches
FS: No Blow Back

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2340.40 | 110.06 | Initial Hydro-static |
| 1 | 53.88 | 109.44 | Open To Flow (1) |
| 32 | 82.00 | 118.26 | Shut-In(1) |
| 64 | 580.75 | 117.96 | End Shut-In(1) |
| 64 | 89.10 | 117.77 | Open To Flow (2) |
| 109 | 123.37 | 120.48 | Shut-In(2) |
| 169 | 479.82 | 119.88 | End Shut-In(2) |
| 170 | 2309.14 | 120.88 | Final Hydro-static |

Recovery

Gas Rates

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 0.00 | 346 GIP | 0.00 |
| 125.00 | GOCM 10%G 20%O 70%M | 1.75 |
| 94.00 | GMCO 20%G 22%M 58%O | 1.32 |
| | | |
| | | |

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil

3-24S-23W Hodgeman KS

202 W Main
Salem, IL 62881

Schaffer 1-3

Job Ticket: 65920

DST#: 1

ATTN: Steve Davis

Test Start: 2019.11.02 @ 00:27:00

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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5100.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------------|---------------|
| 0.00 | 346 GIP | 0.000 |
| 125.00 | GOCM 10%G 20%O 70%M | 1.753 |
| 94.00 | GMCO 20%G 22%M 58%O | 1.319 |

Total Length: 219.00 ft Total Volume: 3.072 bbl

Num Fluid Samples: 0

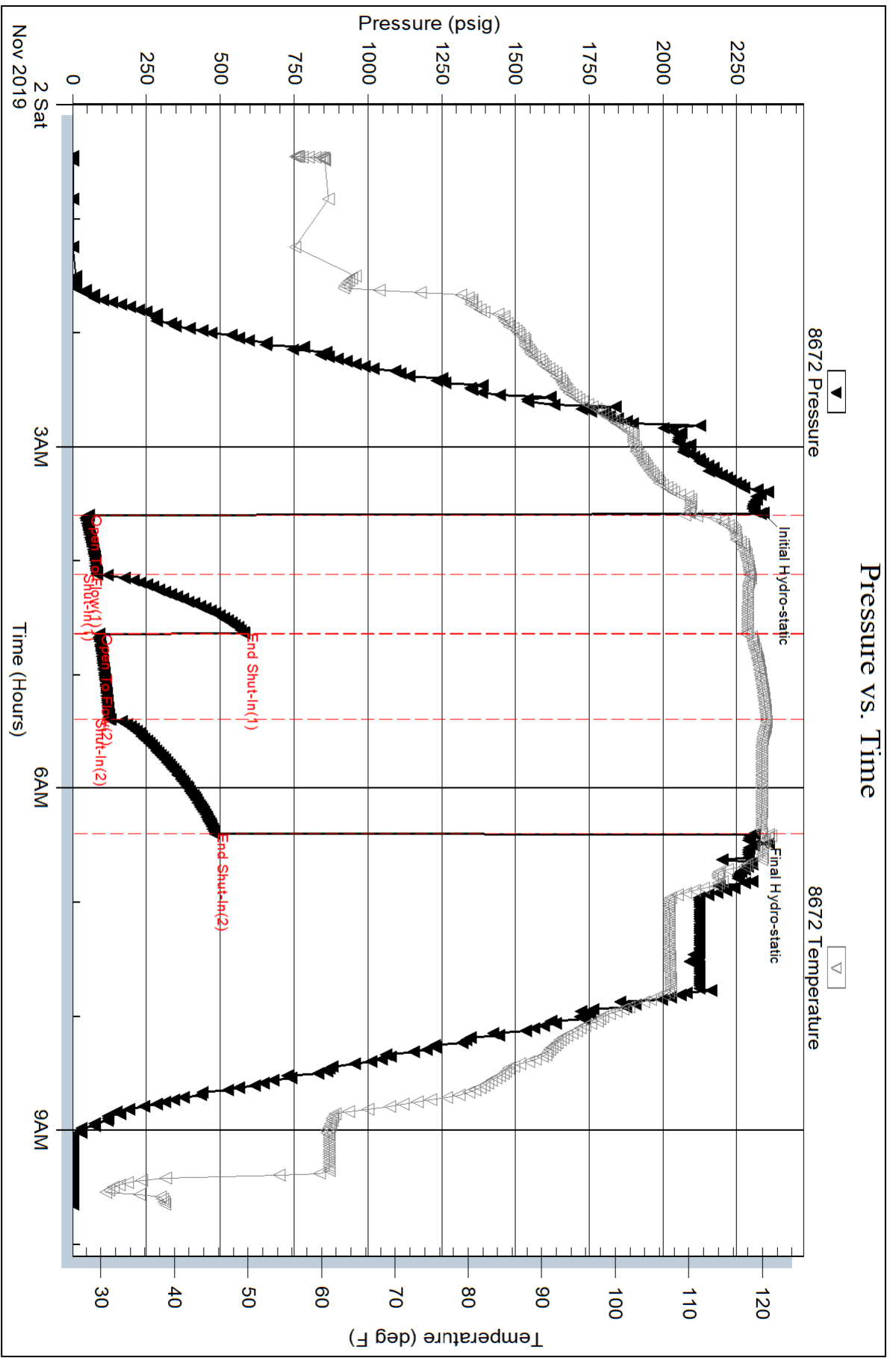
Num Gas Bombs: 0

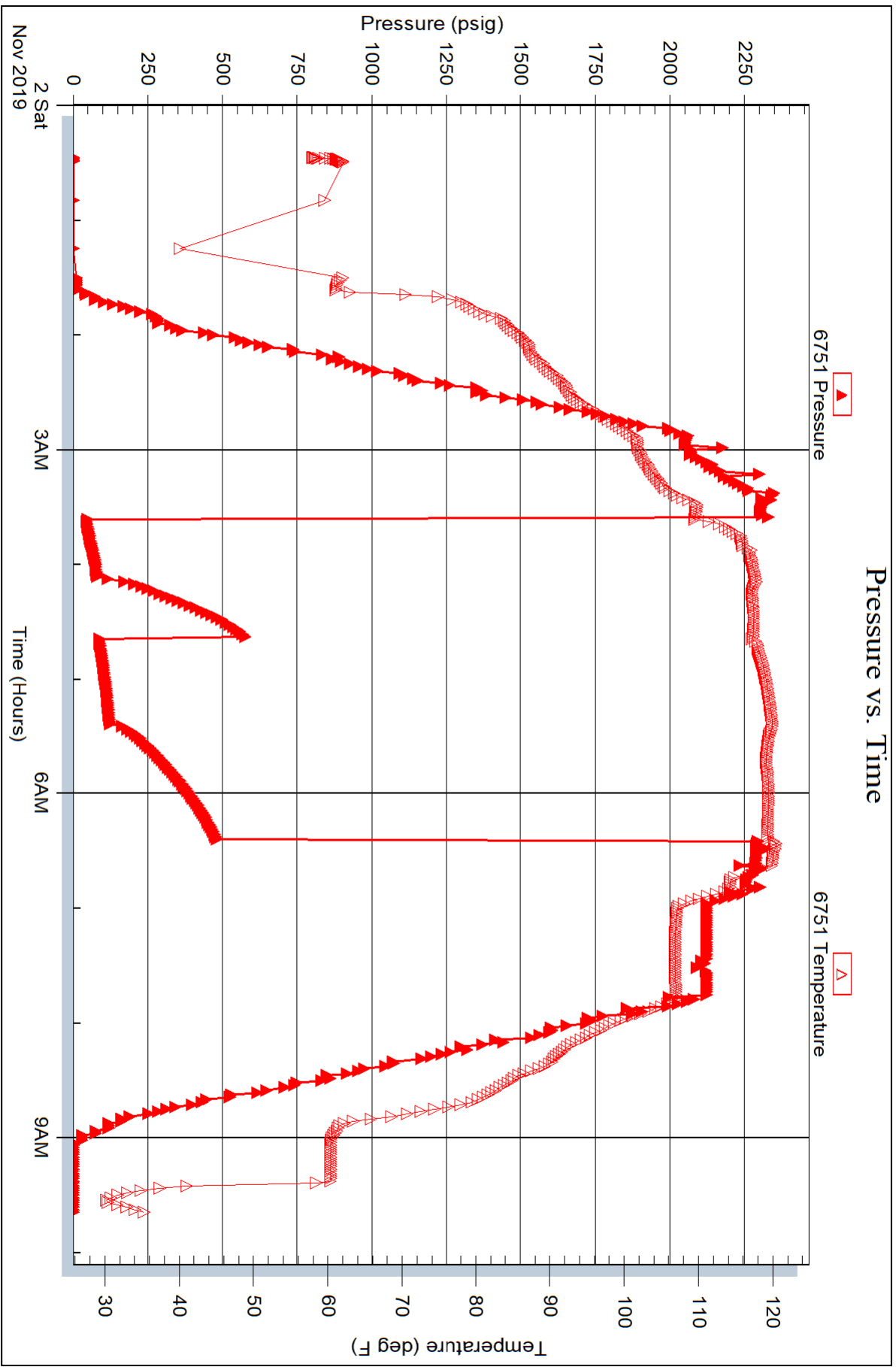
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil

3-24S-23W Hodgeman KS

202 W Main
Salem, IL 62881

Schaffer 1-3

ATTN: Steve Davis

Job Ticket: 65921

DST#: 2

Test Start: 2019.11.03 @ 03:15:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:34:17

Time Test Ended: 11:57:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 4710.00 ft (KB) To 4742.00 ft (KB) (TVD)

Reference Elevations: 2440.00 ft (KB)

Total Depth: 4742.00 ft (KB) (TVD)

2431.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8672

Inside

Press@RunDepth: 120.68 psig @ 4711.00 ft (KB)

Capacity: psig

Start Date: 2019.11.03

End Date:

2019.11.03

Last Calib.:

2019.11.03

Start Time: 03:15:01

End Time:

11:57:02

Time On Btm:

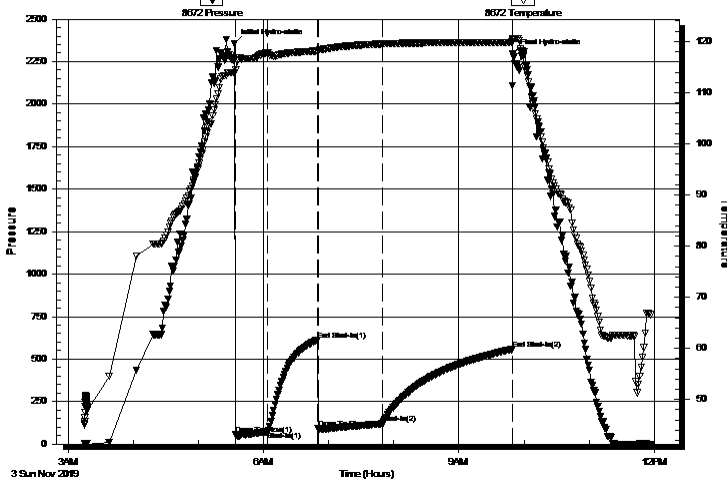
2019.11.03 @ 05:33:02

Time Off Btm:

2019.11.03 @ 09:49:47

TEST COMMENT: IF: Fair Blow, BOB in 18 minutes, Built to 20 inches
IS: No Blow Back
FF: Fair Blow, BOB in 13 minutes, Built to 35 inches
FS: No Blow Back

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2357.76 | 113.92 | Initial Hydro-static |
| 2 | 56.92 | 114.38 | Open To Flow (1) |
| 31 | 73.82 | 117.83 | Shut-In(1) |
| 77 | 613.90 | 118.13 | End Shut-In(1) |
| 78 | 90.51 | 118.23 | Open To Flow (2) |
| 137 | 120.68 | 119.52 | Shut-In(2) |
| 256 | 558.06 | 119.89 | End Shut-In(2) |
| 257 | 2297.79 | 120.44 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------------|--------------|
| 0.00 | 373 GIP | 0.00 |
| 126.00 | GWOCM 12%G 12%W 24%O 52%M | 1.77 |
| 131.00 | GSY Oil 20%G 80%O | 1.84 |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil

3-24S-23W Hodgeman KS

202 W Main
Salem, IL 62881

Schaffer 1-3

Job Ticket: 65921

DST#: 2

ATTN: Steve Davis

Test Start: 2019.11.03 @ 03:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38.6 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

54000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------------------|---------------|
| 0.00 | 373 GIP | 0.000 |
| 126.00 | GWOCM 12%G 12%W 24%O 52%M | 1.767 |
| 131.00 | GSY Oil 20%G 80%O | 1.838 |

Total Length: 257.00 ft Total Volume: 3.605 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

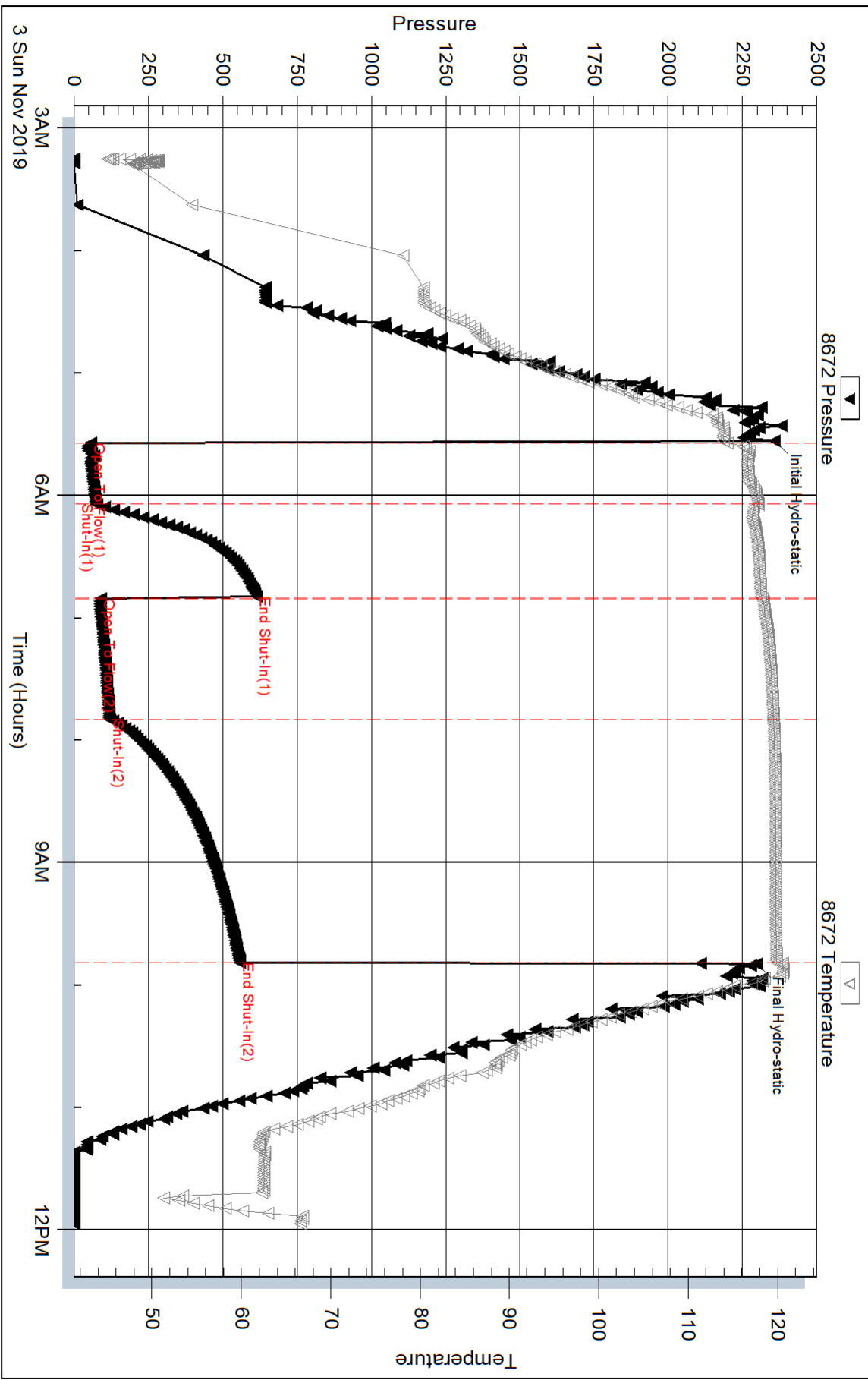
Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity w as 38.8 @ 62 degrees

RW w as .13 @ 77 degrees

Pressure vs. Time



Serial #: 6751

Outside Shakespeare Oil

Schaffer 1-3

DST Test Number: 2

