

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 TCores aken <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: | |
|----------------|-------|---------|------------|--|

Sean Deenihan

Petroleum Geologist

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY **Triple Crown Operating, LLC**
LEASE **Keilman #1A**

ELEVATIONS
KB 2391'

FIELD **Wildcat**

LOCATION **330° FSL & 1800° FEL**

SEC **30** TWSP **17 S** RGE **24 W**

COUNTY **Ness** STATE **Kansas**

CONTRACTOR **W.W. Drilling Rigs #4**

SPUD **6/5/17** COMP **6/12/16**

RTD **4460'** LTD **4462'**

MUD UP **3200'** TYPE MUD **Chemical**

SAMPLES SAVED FROM **3500'** TO **RTD**

DRILLING TIME KEPT FROM **3500'** TO **RTD**

SAMPLES EXAMINED FROM **3500'** TO **RTD**

GEOLOGICAL SUPERVISION FROM **3700'**

REFERENCE WELL **Schaben B1**

CND/DIL. MIC

CONDUCTOR

SURFACE **8'-5/8"** at **348'**

PRODUCTION **5.5" @ TD**

ELECTRICAL SURVEYS

Gemini

Measurements Are All From Kelly Bushing

GL 2386'

DF

Measurements Are All From Kelly Bushing

CASING

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SURFACE **8'-5/8"** at **348'**

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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1882

| | | | | | | | | | | | | | | | |
|--|---------|-------|----|----------------------|----|--------|----|--|------|-------|----|---|--|--------|--------|
| Date | 6-12-17 | Sec. | 30 | Twp. | 17 | Range | 24 | County | Ness | State | KS | On Location | | Finish | 3:00PM |
| Location | | | | | | | | Ransom 3W 5S 1W 1S Wingo | | | | | | | |
| Lease | | | | Keilman | | | | Well No. | | #1 | | Owner | | | |
| Contractor | | | | ww 10 | | | | To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. | | | | | | | |
| Type Job | | | | Production | | | | Charge To Triple Crown Operating | | | | | | | |
| Hole Size | | 7 7/8 | | T.D. | | 4460' | | Street | | | | | | | |
| Csg. | | 5 1/2 | | Depth | | 4460' | | City | | | | | | | |
| Tbg. Size | | | | Depth | | | | State | | | | | | | |
| Tool Port Collar | | | | Depth 1640' | | | | The above was done to satisfaction and supervision of owner agent or contractor. | | | | | | | |
| Cement Left in Csg. | | | | 44.05 | | | | Shoe Joint | | 44.05 | | Cement Amount Ordered 205 sk com 10% Salt | | | |
| Meas Line | | | | Displace 102 1/2 bbl | | | | 5% Gilsenite | | | | | | | |
| EQUIPMENT | | | | | | | | Common 205 | | | | | | | |
| Pumptrk | | 5 | | No. Cementer | | Brett | | Poz. Mix | | | | | | | |
| Bulktrk | | 15 | | No. Driver | | Travis | | Gel. | | | | | | | |
| Bulktrk | | | | No. Driver | | Jordan | | Calcium | | | | | | | |
| JOB SERVICES & REMARKS | | | | | | | | Hulls KCL 1 gal | | | | | | | |
| Remarks: | | | | | | | | Salt 17 | | | | | | | |
| Rat Hole - 30 sk | | | | | | | | Flowseal | | | | | | | |
| Mouse Hole | | | | | | | | Kol-Seal 900# | | | | | | | |
| Centralizers - 2, 3, 4, 6, 8, 10, 13, 17, 20, 65 | | | | | | | | Mud CLR 48 - 500 Gal | | | | | | | |
| Baskets - 5, 21, 66 | | | | | | | | CFL-117 or CD110 CAF 38 KCL - 10 bbl | | | | | | | |
| Port Collar @ 1640 on J+66 | | | | | | | | Sand | | | | | | | |
| | | | | | | | | Handling 231 | | | | | | | |
| | | | | | | | | Mileage | | | | | | | |
| Ran 4460' 5 1/2" Est cir | | | | | | | | 5 1/2" FLOAT EQUIPMENT | | | | | | | |
| Mix 500 gal Mud Flush | | | | | | | | Guide Shoe | | | | | | | |
| Followed by 10 bbl KCL | | | | | | | | Centralizer - 10 | | | | | | | |
| Plugged Rat hole w/ 30 sk | | | | | | | | Baskets - 3 | | | | | | | |
| Mixed 175 sk down 5 1/2" | | | | | | | | AFU Inserts | | | | | | | |
| Displaced 102 1/2 bbl | | | | | | | | Float Shoe - 1 | | | | | | | |
| | | | | | | | | Latch Down - 1 | | | | | | | |
| Lift pressure @ 700 lbs | | | | | | | | 1 Limit clamp | | | | | | | |
| Landed @ 1500 lbs | | | | | | | | Pumptrk Charge prod string | | | | | | | |
| | | | | | | | | Mileage 25 | | | | | | | |
| Plugs did hold | | | | | | | | Tax | | | | | | | |
| | | | | | | | | Discount | | | | | | | |
| X Signature <i>[Signature]</i> | | | | | | | | Total Charge | | | | | | | |

QUALITY OILWELL CEMENTING, INC.

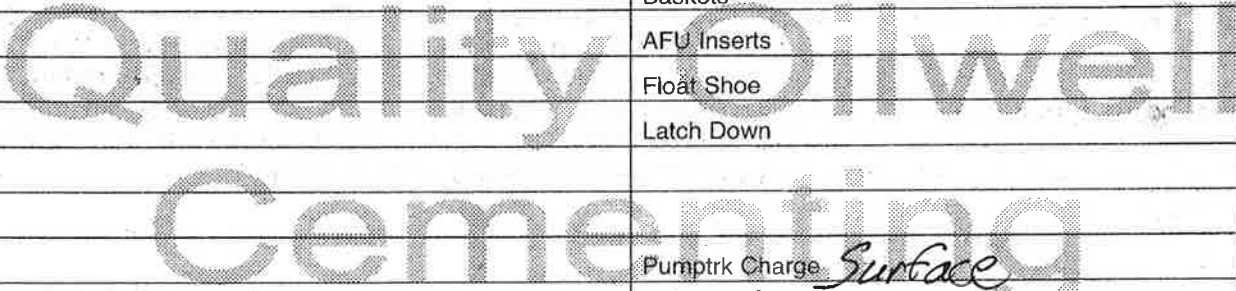
Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 249

| | | | | | | | |
|---|-------------------|--|------------------|---|-----------------|---|-------------------------|
| Date: <u>6-5-17</u> | Sec. <u>30</u> | Twp. <u>17</u> | Range <u>24</u> | County <u>NESS</u> | State <u>KS</u> | On Location | Finish <u>11:45p.m.</u> |
| Lease <u>Keilman</u> | | | | Well No. <u>1-A</u> | | Location <u>Ransom 3w Rd N 55 2100 1w 15 Wite</u> | |
| Contractor <u>WU #4</u> | | Type Job <u>Surface</u> | | Owner To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. | | | |
| Hole Size <u>12 1/4</u> | Csg. <u>8 5/8</u> | T.D. <u>219</u> | Depth <u>218</u> | Charge To <u>Triple Crown</u> | | | |
| Tbg. Size | Tool | Depth | Street | City _____ State _____ | | | |
| Cement Left in Csg. <u>10</u> | Shoe Joint | The above was done to satisfaction and supervision of owner agent or contractor. | | | | | |
| Meas Line | | Displace <u>13 1/4 BCL</u> | | Cement Amount Ordered <u>1.50 com 3:1 LL 2:1 GEL</u> | | | |
| EQUIPMENT | | | | Common <u>150</u> | | | |
| Pumptrk <u>20</u> | No. <u>1</u> | Cement Helper <u>Craig</u> | | Poz. Mix | | | |
| Bulktrk | No. <u>1</u> | Driver <u>Brett</u> | | Gel. <u>3</u> | | | |
| Bulktrk <u>15</u> | No. <u>1</u> | Driver <u>Jordan</u> | | Calcium <u>6</u> | | | |
| JOB SERVICES & REMARKS | | | | Hulls | | | |
| Remarks: | | | | Salt | | | |
| Rat Hole | | | | Flowseal | | | |
| Mouse Hole | | | | Kol-Seal | | | |
| Centralizers | | | | Mud CLR 48 | | | |
| Baskets | | | | CFL-117 or CD110 CAF 38 | | | |
| D/V or Port Collar | | | | Sand | | | |
| <u>8 5/8 on bottom - Est. Circulation</u> | | | | Handling <u>159</u> | | | |
| <u>Mix 150% & Displace</u> | | | | Mileage | | | |
| <u>Cement Circulated.</u> | | | | FLOAT EQUIPMENT | | | |
| | | | | Guide Shoe <u>8 5/8 Swage</u> | | | |
| | | | | Centralizer | | | |
| | | | | Baskets | | | |
| | | | | AFU Inserts | | | |
| | | | | Float Shoe | | | |
| | | | | Latch Down | | | |
| | | | | Pumptrk Charge <u>Surface</u> | | | |
| | | | | Mileage <u>25</u> | | | |
| X Signature <u>Walt Brown</u> | | | | Tax | | | |
| | | | | Discount | | | |
| | | | | Total Charge | | | |





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Triple Crown Operating, LLC

30 17s 24w Ness, Ks

2201 S Utica Pl. Ste 100
Tulsa, Ok 74114

Keilman 1-A

Job Ticket: 61367

DST#: 1

ATTN: Sean Deenihan

Test Start: 2017.06.10 @ 15:56:00

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:38:30
 Time Test Ended: 23:16:45
 Interval: **4296.00 ft (KB) To 4395.00 ft (KB) (TVD)**
 Total Depth: 4345.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 2387.00 ft (KB)
 2382.00 ft (CF)
 KB to GR/CF: 5.00 ft

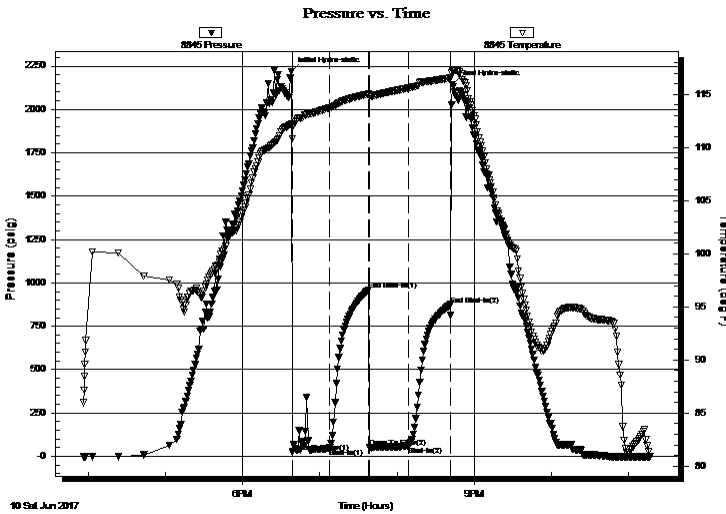
Serial #: 8845

Outside

Press@RunDepth: 59.02 psig @ 4297.00 ft (KB)
 Start Date: 2017.06.10 End Date: 2017.06.10
 Start Time: 15:56:05 End Time: 23:16:44
 Capacity: 8000.00 psig
 Last Calib.: 2017.06.10
 Time On Btm: 2017.06.10 @ 18:38:00
 Time Off Btm: 2017.06.10 @ 20:43:15

TEST COMMENT: IF: 3" blow.
 IS: No return.
 FF: 2" blow.
 FS: No return.

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2217.06 | 112.21 | Initial Hydro-static |
| 1 | 23.50 | 110.80 | Open To Flow (1) |
| 30 | 44.78 | 113.73 | Shut-In(1) |
| 60 | 959.21 | 115.05 | End Shut-In(1) |
| 61 | 49.62 | 114.85 | Open To Flow (2) |
| 92 | 59.02 | 115.61 | Shut-In(2) |
| 124 | 874.33 | 116.55 | End Shut-In(2) |
| 126 | 2142.83 | 117.22 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 60.00 | ocm 25o 75m | 0.30 |
| 70.00 | Oil 100o | 0.43 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Triple Crown Operating, LLC

30 17s 24w Ness, Ks

2201 S Utica Pl. Ste 100
Tulsa, Ok 74114

Keilman 1-A

Job Ticket: 61367

DST#: 1

ATTN: Sean Deenihan

Test Start: 2017.06.10 @ 15:56:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|-------------|----------------|
| 60.00 | ocm 25o 75m | 0.295 |
| 70.00 | Oil 100o | 0.426 |

Total Length: 130.00 ft

Total Volume: 0.721 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

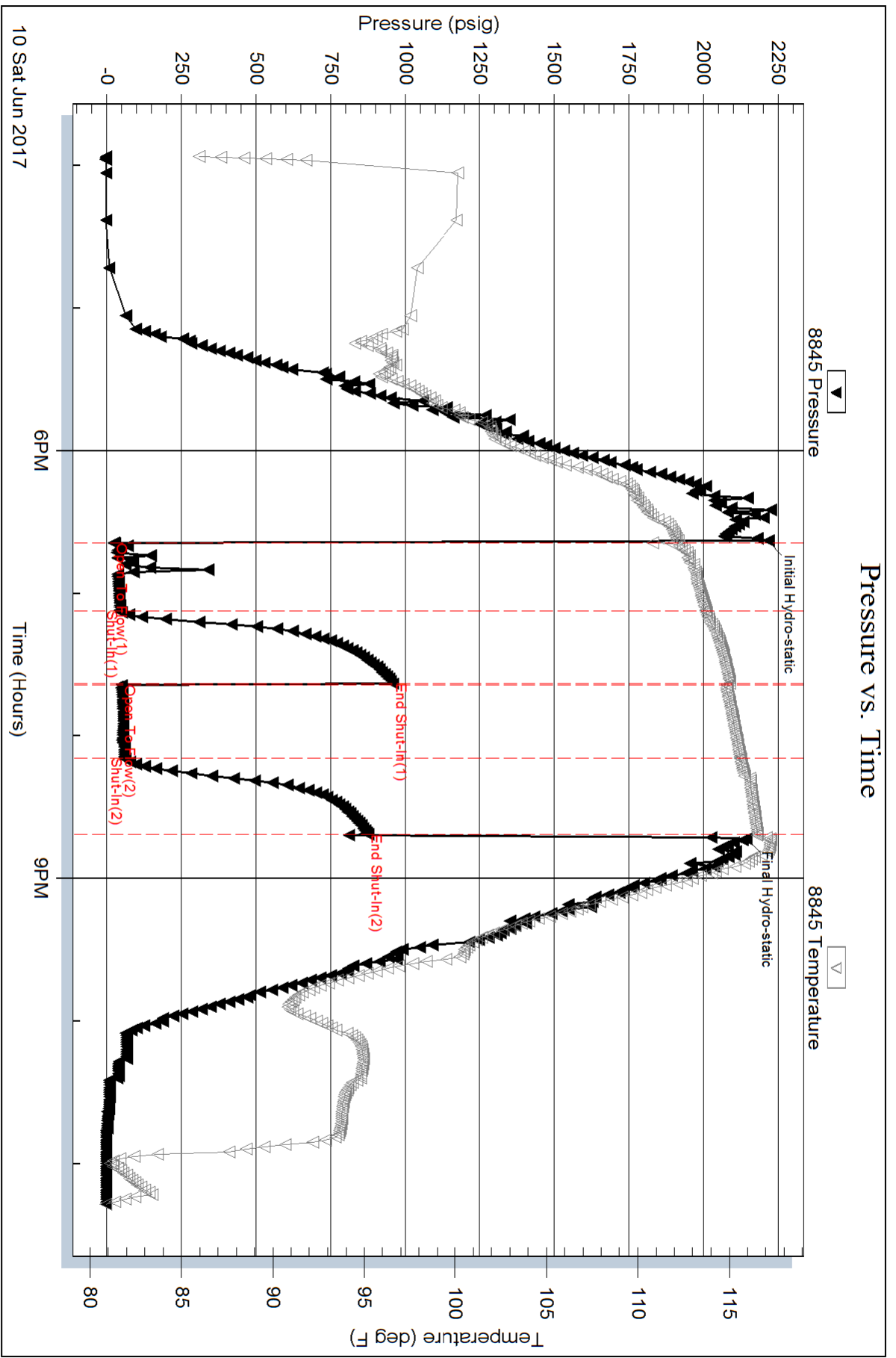
Recovery Comments:

Serial #: 8845

Outside Triple Crown Operating, LLC

Keilman 1-A

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 61367

Printed: 2017.06.11 @ 07:17:02

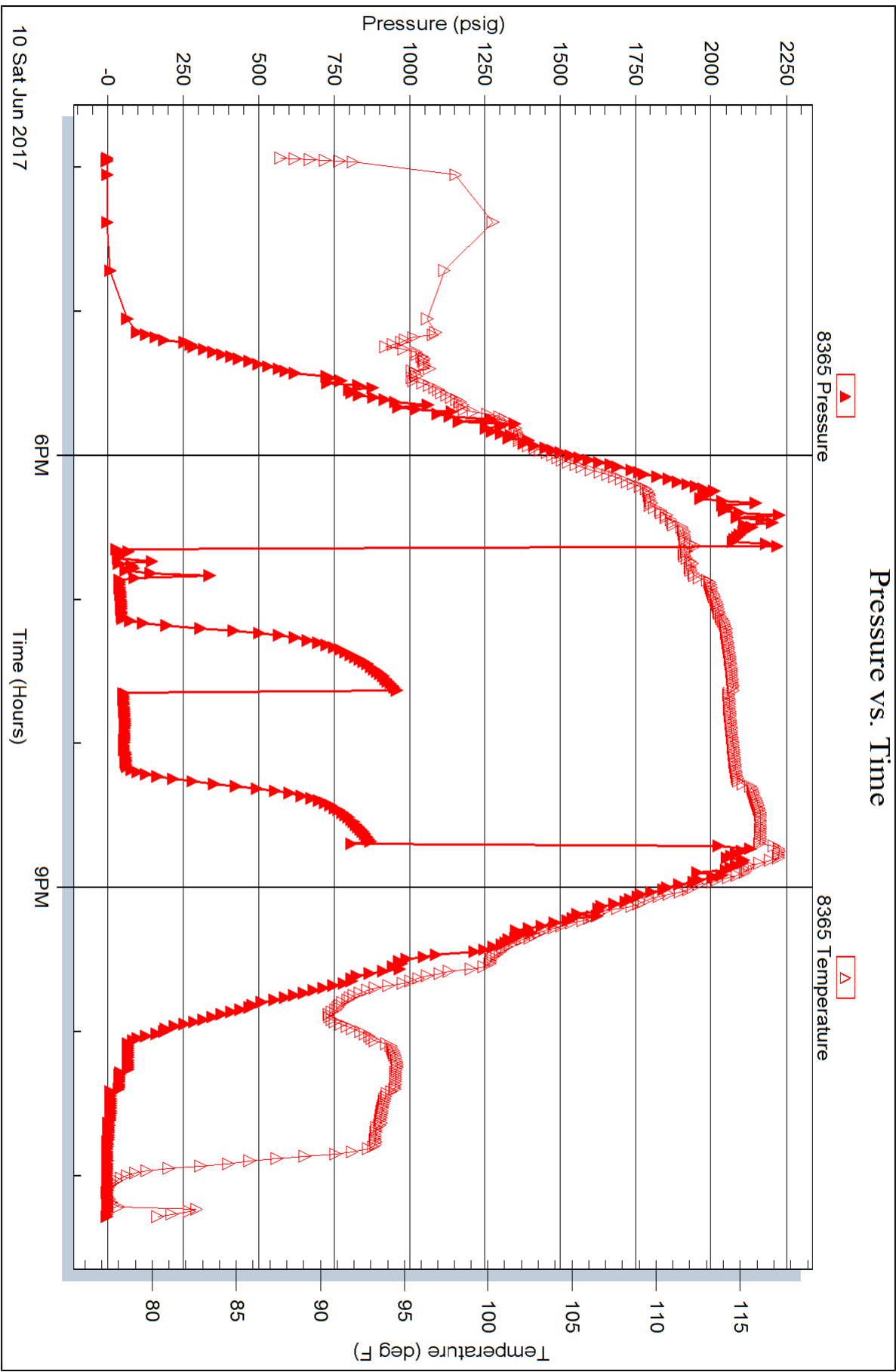
Serial #: 8365

Inside

Triple Crown Operating, LLC

Keilman 1-A

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Triple Crown Operating, LLC

30 17s 24w Ness, Ks

2201 S Utica Pl. Ste 100
Tulsa, Ok 74114

Keilman 1-A

Job Ticket: 61368

DST#: 2

ATTN: Sean Deenihan

Test Start: 2017.06.11 @ 04:56:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:13:45

Time Test Ended: 13:39:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4345.00 ft (KB) To 4351.00 ft (KB) (TVD)

Reference Elevations: 2387.00 ft (KB)

Total Depth: 4351.00 ft (KB) (TVD)

2382.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8845 Outside

Press@RunDepth: 74.53 psig @ 4346.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.11

End Date:

2017.06.11

Last Calib.:

2017.06.11

Start Time: 04:56:05

End Time:

13:39:45

Time On Btm:

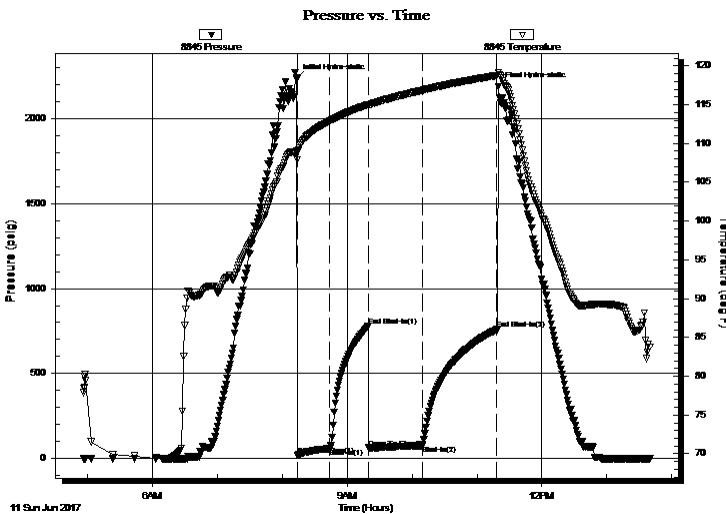
2017.06.11 @ 08:13:15

Time Off Btm:

2017.06.11 @ 11:19:45

TEST COMMENT: IF: 7" blow.
IS: No return.
FF: 6 1/2" blow.
FS: No return.

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2234.48 | 108.99 | Initial Hydro-static |
| 1 | 19.58 | 107.88 | Open To Flow (1) |
| 31 | 56.78 | 112.90 | Shut-In(1) |
| 66 | 777.31 | 115.01 | End Shut-In(1) |
| 67 | 61.16 | 114.94 | Open To Flow (2) |
| 116 | 74.53 | 116.85 | Shut-In(2) |
| 185 | 759.11 | 118.75 | End Shut-In(2) |
| 187 | 2187.80 | 119.15 | Final Hydro-static |

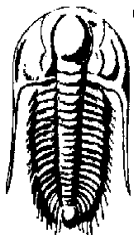
Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 25.00 | ocm 40o 60m | 0.12 |
| 140.00 | oil 100o | 1.09 |
| | | |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Triple Crown Operating, LLC

30 17s 24w Ness, Ks

2201 S Utica Pl. Ste 100
Tulsa, Ok 74114

Keilman 1-A

Job Ticket: 61368

DST#: 2

ATTN: Sean Deenihan

Test Start: 2017.06.11 @ 04:56:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:13:45

Time Test Ended: 13:39:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4345.00 ft (KB) To 4351.00 ft (KB) (TVD)

Reference Elevations: 2387.00 ft (KB)

Total Depth: 4351.00 ft (KB) (TVD)

2382.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8365

Inside

Press@RunDepth: psig @ 4346.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.11

End Date:

2017.06.11

Last Calib.:

2017.06.11

Start Time: 04:56:05

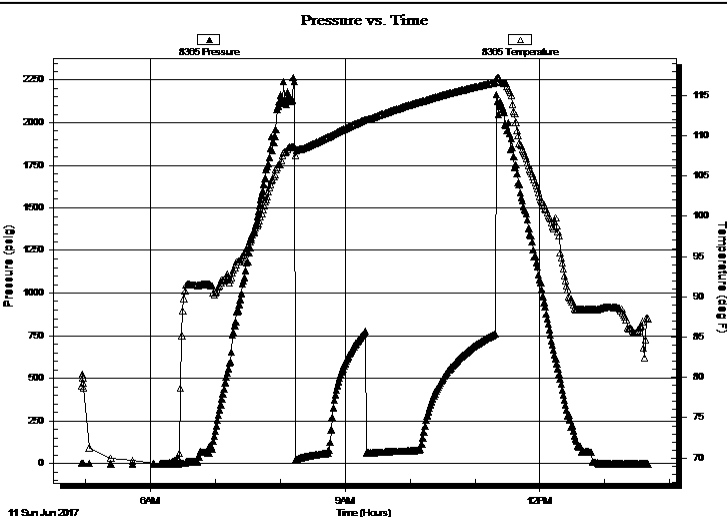
End Time:

13:39:45

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 7" blow .
IS: No return.
FF: 6 1/2" blow .
FS: No return.



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 25.00 | ocm 40o 60m | 0.12 |
| 140.00 | oil 100o | 1.09 |
| | | |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Triple Crown Operating, LLC

30 17s 24w Ness, Ks

2201 S Utica Pl. Ste 100
Tulsa, Ok 74114

Keilman 1-A

Job Ticket: 61368

DST#: 2

ATTN: Sean Deenihan

Test Start: 2017.06.11 @ 04:56:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 25.00 | ocm 40o 60m | 0.123 |
| 140.00 | oil 100o | 1.089 |

Total Length: 165.00 ft Total Volume: 1.212 bbl

Num Fluid Samples: 0

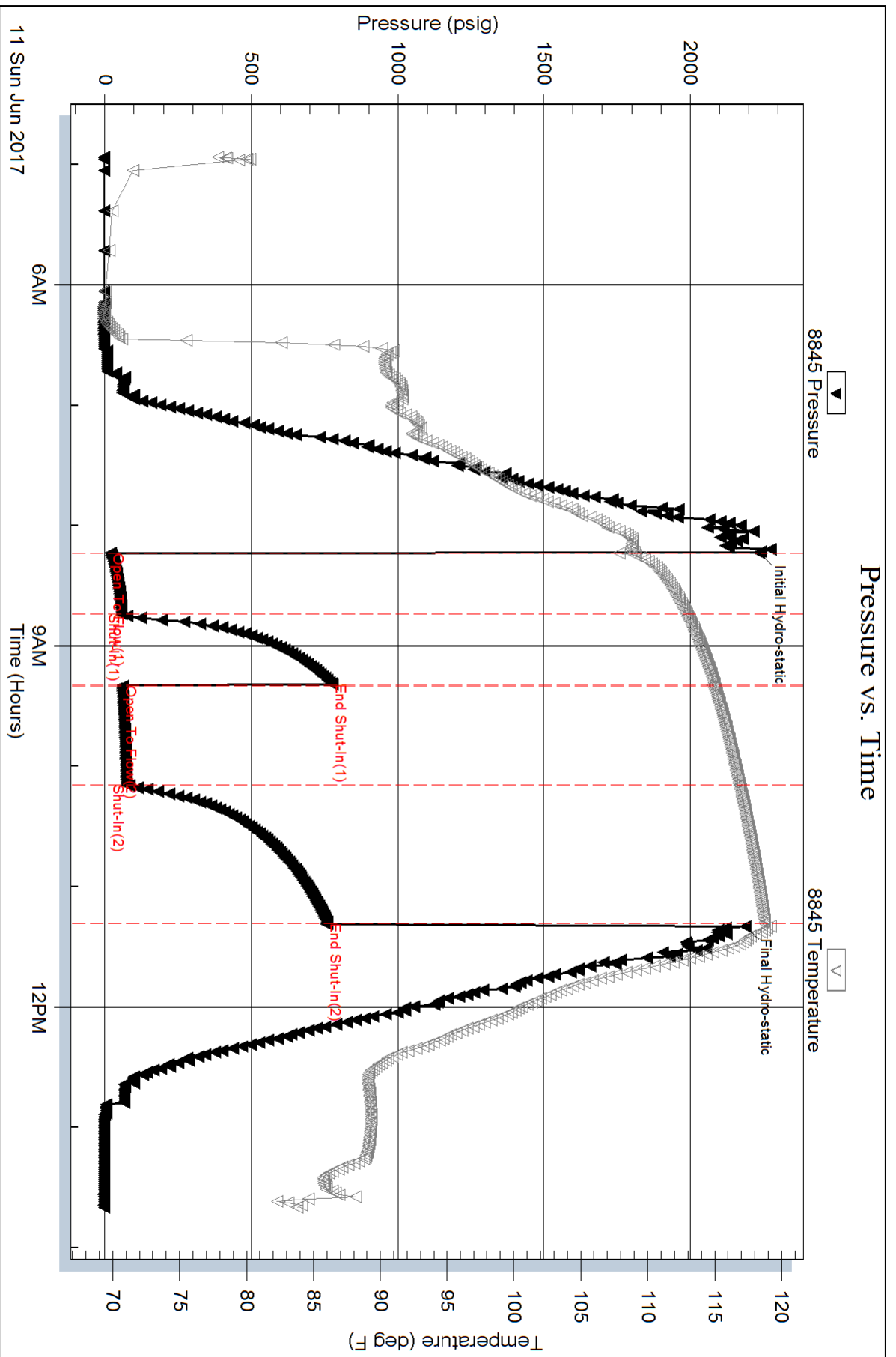
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



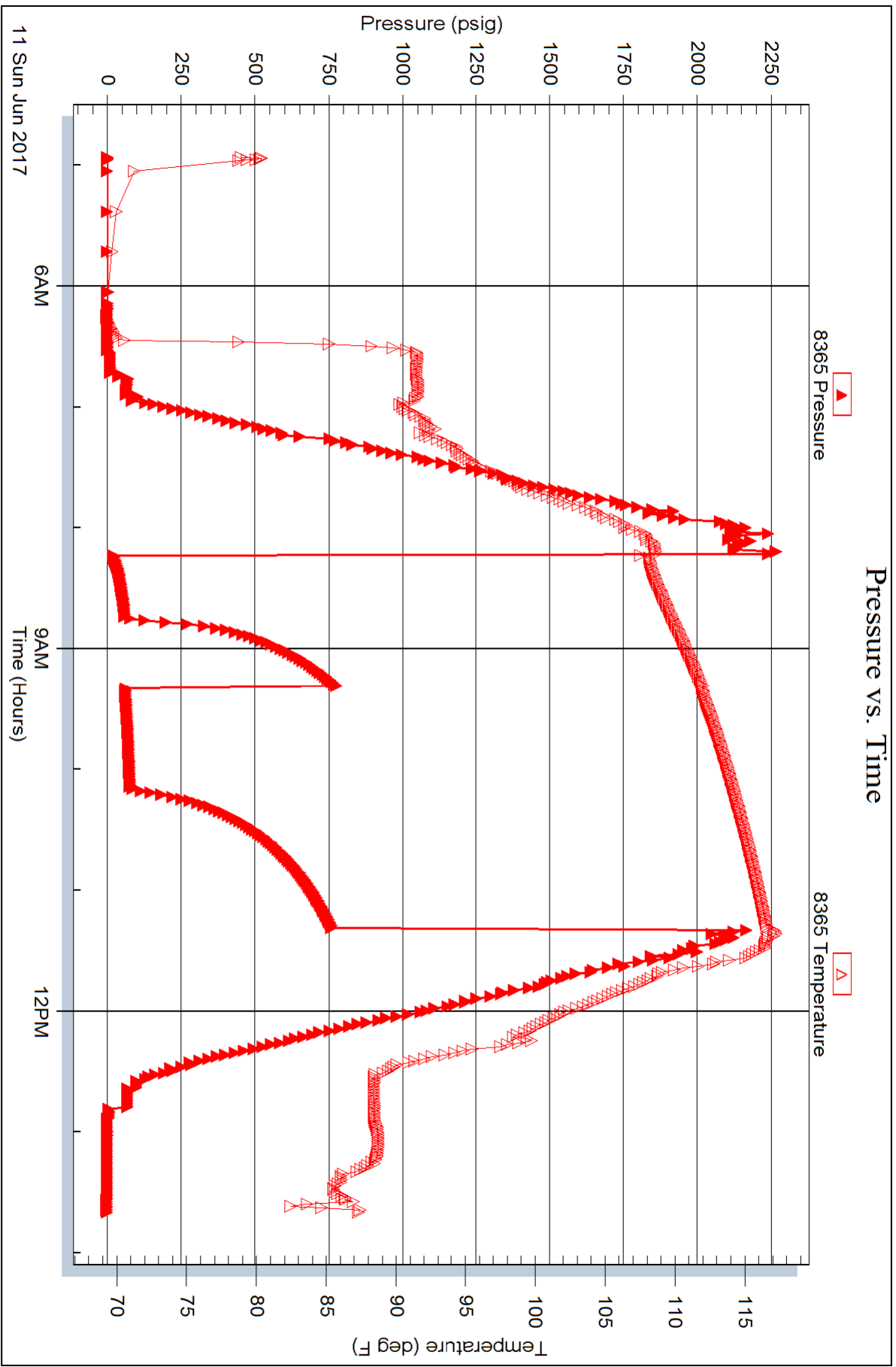
Serial #: 8365

Inside

Triple Crown Operating, LLC

Keilman 1-A

DST Test Number: 2



JOB LOG

SWIFT Services, Inc.

DATE 11-29-17 PAGE NO. 1

CUSTOMER BARRACUDA OPER. Co. WELL NO. #1 LEASE KEILMAN JOB TYPE TOOLS TICKET NO. 30650

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
|-----------|------|------------|--------------------|-------|---|----------------|--------|--|
| | | | | T | C | TUBING | CASING | |
| | 1130 | | | | | | | ON LOCATION |
| | | | | | | | | 2 7/8 x 5 1/2 TOCE 3090 PERFS e (TOP) 4336' PORT COLLAR e 1637' RBP e 3500' (14 STANDS OUT) |
| | 1145 | | | | | | | START TSO-RBP IN WELL |
| | 1315 | | | | | | | SET RBP e 3500 - CIRCULATE WELL CLEAN TEST RBP - 1000 PSI - HOLD |
| | 1400 | | | | | | | PULL TUBING TO PORT COLLAR - LOCATE - OPEN CEMENT PORT COLLAR TO SURFACE CLOSE PORT COLLAR - TEST - HOLD 1000 PSI RUN OUTS - REVERSE CLEAN RUN TUBING - REVERSE SAND OFF RBP LEAVE RBP SET e 3500' PULL LOT TUBING SWAB DOWN 11-30-17 TO 2000' RIG CREW - RELEASE & PULL RBP |
| | 1730 | | | | | | | JOB COMPLETE |

THANK YOU WAYNE

JOB LOG

SWIFT Services, Inc.

DATE 11-29-17 PAGE NO. 1

| CUSTOMER | | WELL NO. | | LEASE | | JOB TYPE | | TICKET NO. | |
|---------------------|------|------------|--------------------|---------|---|----------------|--------|--|--|
| Barracuda Operating | | #1 | | Keilman | | Perf Collar | | #31064 | |
| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS | |
| | | | | T | C | TUBING | CASING | | |
| | 1300 | | | | | | | | on location 2 7/8" x 5 1/2" |
| | | | | | | | | | RBP-3500' P.C. - 1637' |
| | 1330 | 4 | 82 | ✓ | | 300 | | | Roll Hole |
| | 1350 | ∅ | ∅ | ✓ | | 1000 | | | Test Tools * Hold * |
| | 1400 | 2 | 12 | ✓ | | 300 | | | Spot 200# sand (4skt) |
| | 1415 | | | | | | | | Pull up to P.C. |
| | 1445 | | | | | | | | Open P.C. |
| | 1450 | 3 1/2 | 5 | ✓ | | 400 | | | Injection Rate |
| | 1500 | 4 | 70 | ✓ | | 400 | | | Pump 70 bbl Mud |
| | | 4 | 14 | ✓ | | 400 | | | circulate to surface |
| | 1515 | 4 | 77 1/2 | ✓ | | 200 | | | mix 140 skt SMD w/ 1/4" Flu @ 11.2 ppg |
| | | | | | | | | | circulate cement to surface *20skt* |
| | 1545 | 4 | 9 | ✓ | | 400 | | | Displace Cement |
| | 1550 | ∅ | ∅ | ✓ | | 1000 | | | Close P.C. * Hold * |
| | 1555 | 3 1/2 | 25 | ✓ | | 300 | | | Run 6 Jts * 140skt total * |
| | | | | | | | | | Reverse Clean * 20skt to pit * |
| | 1610 | | | | | | | | wash up trucks |
| | | | | | | | | | TIH to get sand |
| | 1640 | 3 | 35 | ✓ | | 300 | | | Reverse out Sand |
| | 1700 | | | | | | | | Job Complete |

Thank You
Dave Preston Isaac