KOLAR Document ID: 1378566

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 # 5004
Name: Vincent Oil Corporation
Address 1: 200 W DOUGLAS AVE #725
Address 2:
City: WICHITA State: KS Zip: 67202 + 3013
Contact Person: M.L. Korphage
Phone: ( 316 ) 262-3573
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Tom Dudgeon
Purchaser: MV Purchasing

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 #:

9/11/2017 Spud Date or Recompletion Date
9/23/2017 Date Reached TD
10/24/2017 Completion Date or Recompletion Date

API No.: 15-057-20985-00-00
Spot Description:
NE - NE - NE - SW Sec. 34 Twp. 28 S. R. 23 ☐ East ☑ West
2582 Feet from ☐ North / ☑ South Line of Section
2409 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Ford
Lease Name: KEOUGH Well #: 7-34
Field Name:
Producing Formation: Mississippian
Elevation: Ground: 2535 Kelly Bushing: 2547
Total Vertical Depth: 5370 Plug Back Total Depth: 5369
Amount of Surface Pipe Set and Cemented at: 689 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: 23700 ppm Fluid volume: 200 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Edison Operating Co. LLC
Lease Name: Williams 9-15 License #: 34434
Quarter SE Sec. 9 Twp. 29 S. R. 22 ☐ East ☑ West
County: Ford Permit #: D31354

**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: 01/08/2018
☑ **Confidential Release Date:** 01/08/2020
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
**ALT** ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 01/09/2018

Operator Name: Vincent Oil Corporation Lease Name: KEOUGH Well #: 7-34

Sec. 34 Twp. 28 S. R. 23 ☐ East ☑ West County: Ford

**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 *(Attach Additional Sheets)* | ☑ Yes | ☐ No | ☑ Log Formation (Top), Depth and Datum ☐ Sample |
| Samples Sent to Geological Survey | ☑ Yes | ☐ No | Name: Attached Top: Attached Datum: Attached |
| Cores Taken | ☐ Yes | ☑ No | |
| Electric Log Run | ☑ Yes | ☐ No | |
| Geologist Report / Mud Logs | ☑ Yes | ☐ No | |

List All E. Logs Run:
Attached

CASING RECORD ☑ New ☐ 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 |
|---|---|---|---|---|---|---|---|
| Surface | 12.25 | 8.625 | 23 | 689 | MDC & Common | 275 | 3% CC, 2% Gel & 1/4# Cel-flake/sx |
| Production | 7.875 | 4.5 | 11.6 | 5369 | Common | 175 | 10% Salt &5# Kol-seal/sx |
| | | | | | | | |

ADDITIONAL CEMENTING / SQUEEZE RECORD

| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
|---|---|---|---|---|
| ☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ 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: 10/24/2017 | Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)* |
|---|---|

| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|---|---|---|---|---|---|
| | 45 | | 15 | | |

| DISPOSITION OF GAS: | METHOD OF COMPLETION: | PRODUCTION INTERVAL: Top | Bottom |
|---|---|---|---|
| ☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)* | ☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* | 5260 | 5271 |
| | | | |

| Shots Per Foot | Perforation Top | Perforation Bottom | Bridge Plug Type | Bridge Plug Set At | Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)* |
|---|---|---|---|---|---|
| 4 | 5260 | 5271 | | | Perforated, ran tubing, acidized with 1500 gal, 15% MCA |
| | | | | | Swabbed 79 BF over 4 hrs (10% - 35% Oil), SDFN |
| | | | | | Swabbed 6 hrs recovered 24 to 5.5 BF/hr (65-55% Oil), SDFN |
| | | | | | 1st hr swab rate 19 bbls (80% Oil), FL at 3100', ran DHP with tubing and rods, set surface equipment. |
| | | | | | |

TUBING RECORD: Size: 2.3750 Set At: 5338 Packer At:

**Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202**

| | |
|---|---|
| Form | ACO1 - Well Completion |
| Operator | Vincent Oil Corporation |
| Well Name | KEOUGH 7-34 |
| Doc ID | 1378566 |

All Electric Logs Run

| |
|---|
| Dual Induction |
| Density - Neutron |
| Micro-log |
| Sonic |

| | |
|---|---|
| Form | ACO1 - Well Completion |
| Operator | Vincent Oil Corporation |
| Well Name | KEOUGH 7-34 |
| Doc ID | 1378566 |

Tops

| Name | Top | Datum |
|---|---|---|
| Heebner Shale | 4361 | (-1814) |
| Brown Limestone | 4496 | (-1949) |
| Lansing | 4506 | (-1959) |
| Stark Shale | 4844 | (-2297) |
| Pawnee | 5052 | (-2507) |
| Cherokee Shale | 5099 | (-2552) |
| Base Penn Limestone | 5198 | (-2651) |
| Mississippian | 5216 | (-2669) |
| RTD | 5370 | (-2823) |

| | |
|---|---|
| Form | ACO1 - Well Completion |
| Operator | Vincent Oil Corporation |
| Well Name | KEOUGH 7-34 |
| Doc ID | 1378566 |

Casing

| Purpose Of String | Size Hole Drilled | Size Casing Set | Weight | Setting Depth | Type Of Cement | Number of Sacks Used | Type and Percent Additives |
|---|---|---|---|---|---|---|---|
| Surface | 12.25 | 8.625 | 23 | 689 | MDC & Common | 275 | 3% CC, 2% Gel & 1/4# Cel-flake/sx |
| Production | 7.875 | 4.5 | 11.6 | 5369 | Common | 175 | 10% Salt &5# Kol-seal/sx |
| | | | | | | | |
| | | | | | | | |

# QUALITY WELL SERVICE, INC.

6716

**Federal Tax I.D. # 481187368**

**Home Office 324 Simpson St., Pratt, KS 67124**

**Office 620-727-3410**
**Fax 620-672-3663**

**Rich's Cell 620-727-3409**
**Brady's Cell 620-727-6964**

| Date 9-12-17 | Sec. 34 | Twp. 28 | Range 23 | County Ford | State KS | On Location 10:00 AM | Finish 10:15 |
|---|---|---|---|---|---|---|---|
| Lease Keough | | Well No. 7-34 | | Location | | | |
| Contractor Duke 1 | | | | Owner | | | |
| Type Job Surface | | | | To Quality Well Service, 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 12¼ | | T.D. 693 | | | | | |
| Csg. 8 5/8 | | Depth 674.87 | | Charge To Vincent | | | |
| Tbg. Size | | Depth | | Street | | | |
| Tool | | Depth | | City | State | | |
| Cement Left in Csg. 20' | | ~~Shoe Joint~~ Landing 15' | | The above was done to satisfaction and supervision of owner agent or contractor. | | | |
| Meas Line | | Displace 42.6 | | Cement Amount Ordered 125 MDC 3%CC 2% gel ¼ CF 150 sk Common 3%cc 2% Gel ¼ C.F | | | |

**EQUIPMENT**

| | | | |
|---|---|---|---|
| Pumptrk 8 | No. | | |
| Bulktrk 9 | No. | | |
| Bulktrk 10 | No. | | |
| Pickup | No. | | |

**JOB SERVICES & REMARKS**

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Ran 8⅝ csg broke circulation with Rig Mixed and pumped 125 sx MDC 3% cc 2% Gel ¼ CF 150 sx Common 3% cc 2% Gel ¼ CF Released plug displaced with 42.6 H2O Shut in cement did circulate to surface

| | | |
|---|---|---|
| Common | 150 | |
| ~~Poz. Mix~~ | 125 MDC | |
| Gel. | 11 | |
| Calcium | 10 | |
| Hulls | | |
| Salt | | |
| Flowseal | 66.75 | |
| Kol-Seal | | |
| Mud CLR 48 | | |
| CFL-117 or CD110 CAF 38 | | |
| Sand | | |
| Handling | 296 | |
| Mileage | 50 | |

**FLOAT EQUIPMENT**

| | |
|---|---|
| Guide Shoe | |
| Centralizer | |
| Baskets | |
| AFU Inserts | |
| ~~Float Shoe~~ | |
| ~~Latch Down~~ | 8 5/8 Latch Down |
| | 8 5/8 Insert Float |
| | LMV 50 |
| Pumptrk Charge | Surface |
| Mileage | 107 |
| Tax | |
| Discount | |
| Total Charge | |

X
Signature

# QUALITY WELL SERVICE, INC.

6719

**Federal Tax I.D. # 481187368**

**Home Office 324 Simpson St., Pratt, KS 67124**

**Office 620-727-3410**
**Fax 620-672-3663**

**Rich's Cell 620-727-3409**
**Brady's Cell 620-727-6964**

| Date | Sec. | Twp. | Range | County | State | On Location | Finish |
|---|---|---|---|---|---|---|---|
| 9-24-17 | 34 | 28 | 23 | Ford | Ks | 12:70 | 3:00 |

Lease Keough Well No. 7-34 Location

Contractor Duke 1

Type Job Long string

Hole Size 7 7/8 T.D. 5370

Csg. 4.5 Depth 5369

Tbg. Size Depth

Tool Depth

Cement Left in Csg. 22 Shoe Joint 22.25

Meas Line Displace 83.5

Owner

To Quality Well Service, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Vincent

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 225 sx Pro C 10# Salt 5# Kol Seal

## EQUIPMENT

| | | | |
|---|---|---|---|
| Pumptrk 8 | No. | Mike | |
| Bulktrk 10 | No. | Trey | |
| Bulktrk | No. | | |
| Pickup | No. | | |

## JOB SERVICES & REMARKS

Rat Hole 30sx

Mouse Hole 20sx

Centralizers

Baskets

D/V or Port Collar

Ran 11.5 # 4.5 csg. To 5369'
Broke circulation with Rig Pump. Pumped mud Flush. Plug'd Rat + Mouse hole Pumped 175sx Pro C 10% salt 5# Kolseal. Shut in washed up truck. released plug. displaced with 83.5 bbls fresh water plugged landed @ 1200psi. Lift pressure 2000psi.

Signature

| | |
|---|---|
| Common | 225sx Pro C |
| Poz. Mix | |
| Gel. | 4 |
| Calcium | |
| Hulls | |
| Salt | 24 |
| Flowseal | |
| Kol-Seal | 1125# |
| Mud CLR 48 | 500 Gal Mud Flush |
| CFL-117 or CD110 CAF 38 | CC-1 8gals |
| Sand | |
| Handling | 253 |
| Mileage | 50 |

## FLOAT EQUIPMENT

| | |
|---|---|
| Guide Shoe | 1 4.5 |
| Centralizer | 6 4.5 |
| Baskets | |
| AFU Inserts | 1 4.5 |
| Float Shoe | |
| Latch Down | Rubber Plug 4.5 |
| LMV | 50 |
| Smart sup unit | |
| Pumptrk Charge | Long string |
| Mileage | 100 |
| Tax | |
| Discount | |
| Total Charge | |

Taylor Printing, Inc.

# DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Tom Dudgeon

**34-28S-23W Ford**

**Keough 7-34**

Job Ticket: 57828 **DST#: 1**

Test Start: 2017.09.19 @ 00:37:49

## GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:38:49
Time Test Ended: 09:56:49

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74

**Interval: 5045.00 ft (KB) To 5072.00 ft (KB) (TVD)**
Total Depth: 5072.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

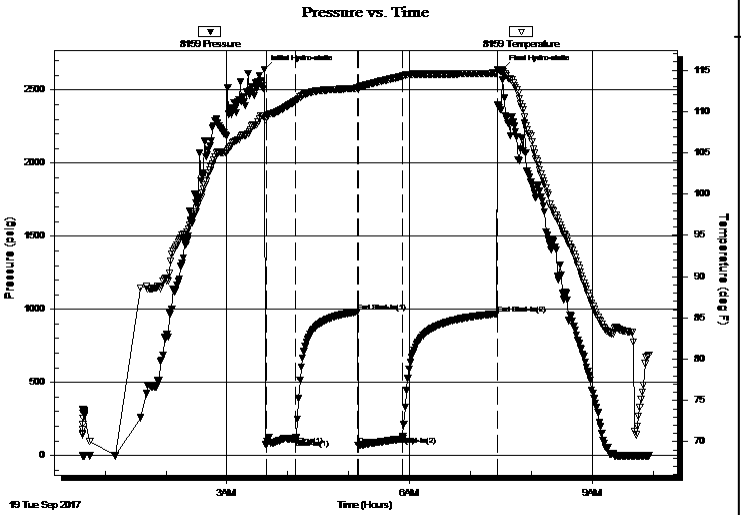
Reference Elevations: 2547.00 ft (KB)
2535.00 ft (CF)
KB to GR/CF: 12.00 ft

**Serial #: 8159** **Inside**

Press@RunDepth: 130.52 psig @ 5046.00 ft (KB)
Start Date: 2017.09.19 End Date: 2017.09.19
Start Time: 00:37:50 End Time: 09:56:49

Capacity: 8000.00 psig
Last Calib.: 2017.09.19
Time On Btm: 2017.09.19 @ 03:37:04
Time Off Btm: 2017.09.19 @ 07:31:49

TEST COMMENT: IF: Strong Blow , BOB in 2 minutes
ISI: No Blow Back
FF: Strong Blow , BOB in 3 minutes
FSI: Weak Surface Blow Back




## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|---|---|---|---|
| 0 | 2641.06 | 109.54 | Initial Hydro-static |
| 2 | 70.42 | 109.25 | Open To Flow (1) |
| 31 | 113.21 | 111.28 | Shut-In(1) |
| 92 | 981.83 | 112.82 | End Shut-In(1) |
| 93 | 69.42 | 112.72 | Open To Flow (2) |
| 137 | 130.52 | 114.30 | Shut-In(2) |
| 230 | 969.58 | 114.65 | End Shut-In(2) |
| 235 | 2640.68 | 114.98 | Final Hydro-static |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 0.00 | 640 GIP | 0.00 |
| 62.00 | MCW 5%M 95%W | 0.87 |
| 226.00 | GOWCM 30%G 10%O 20%W 40%M | 3.17 |
| | | |
| | | |
| | | |

## Gas Rates

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

# DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Tom Dudgeon

**34-28S-23W Ford**

**Keough 7-34**

Job Ticket: 57828 **DST#: 1**

Test Start: 2017.09.19 @ 00:37:49

## GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:38:49
Time Test Ended: 09:56:49

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74

**Interval: 5045.00 ft (KB) To 5072.00 ft (KB) (TVD)**
Total Depth: 5072.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

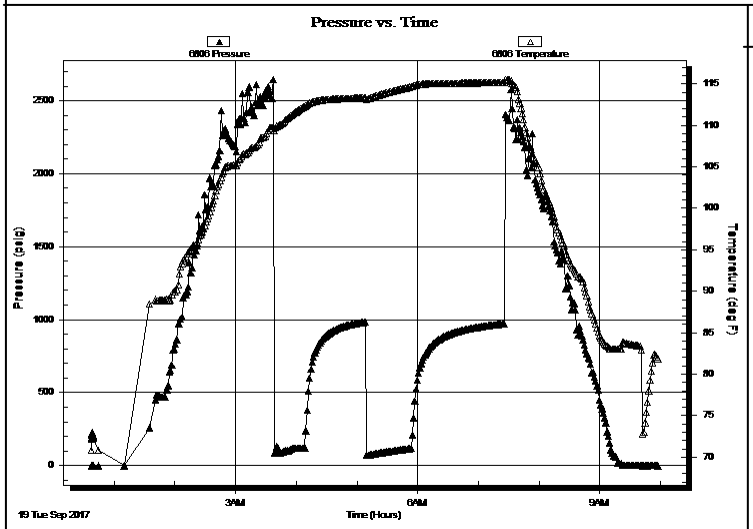
Reference Elevations: 2547.00 ft (KB)
2535.00 ft (CF)
KB to GR/CF: 12.00 ft

**Serial #: 6806** **Outside**

Press@RunDepth: psig @ 5046.00 ft (KB)
Start Date: 2017.09.19 End Date: 2017.09.19
Start Time: 00:37:50 End Time: 09:57:04

Capacity: 8000.00 psig
Last Calib.: 2017.09.19
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 2 minutes
ISI: No Blow Back
FF: Strong Blow , BOB in 3 minutes
FSI: Weak Surface Blow Back




## PRESSURE SUMMARY

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

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 0.00 | 640 GIP | 0.00 |
| 62.00 | MCW 5%M 95%W | 0.87 |
| 226.00 | GOWCM 30%G 10%O 20%W 40%M | 3.17 |
| | | |
| | | |
| | | |

## Gas Rates

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

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Tom Dudgeon

**34-28S-23W Ford**

**Keough 7-34**

Job Ticket: 57828 **DST#: 1**

Test Start: 2017.09.19 @ 00:37:49

## Mud and Cushion Information

| | | | | | |
|---|---|---|---|---|---|
| Mud Type: | Gel Chem | Cushion Type: | | Oil API: | deg API |
| Mud Weight: | 10.00 lb/gal | Cushion Length: | ft | Water Salinity: | 58000 ppm |
| Viscosity: | 56.00 sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | 11.59 in³ | Gas Cushion Type: | | | |
| Resistivity: | ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | 7700.00 ppm | | | | |
| Filter Cake: | 0.02 inches | | | | |

## Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|---|---|---|
| 0.00 | 640 GIP | 0.000 |
| 62.00 | MCW 5%M 95%W | 0.870 |
| 226.00 | GOWCM 30%G 10%O 20%W 40%M | 3.170 |

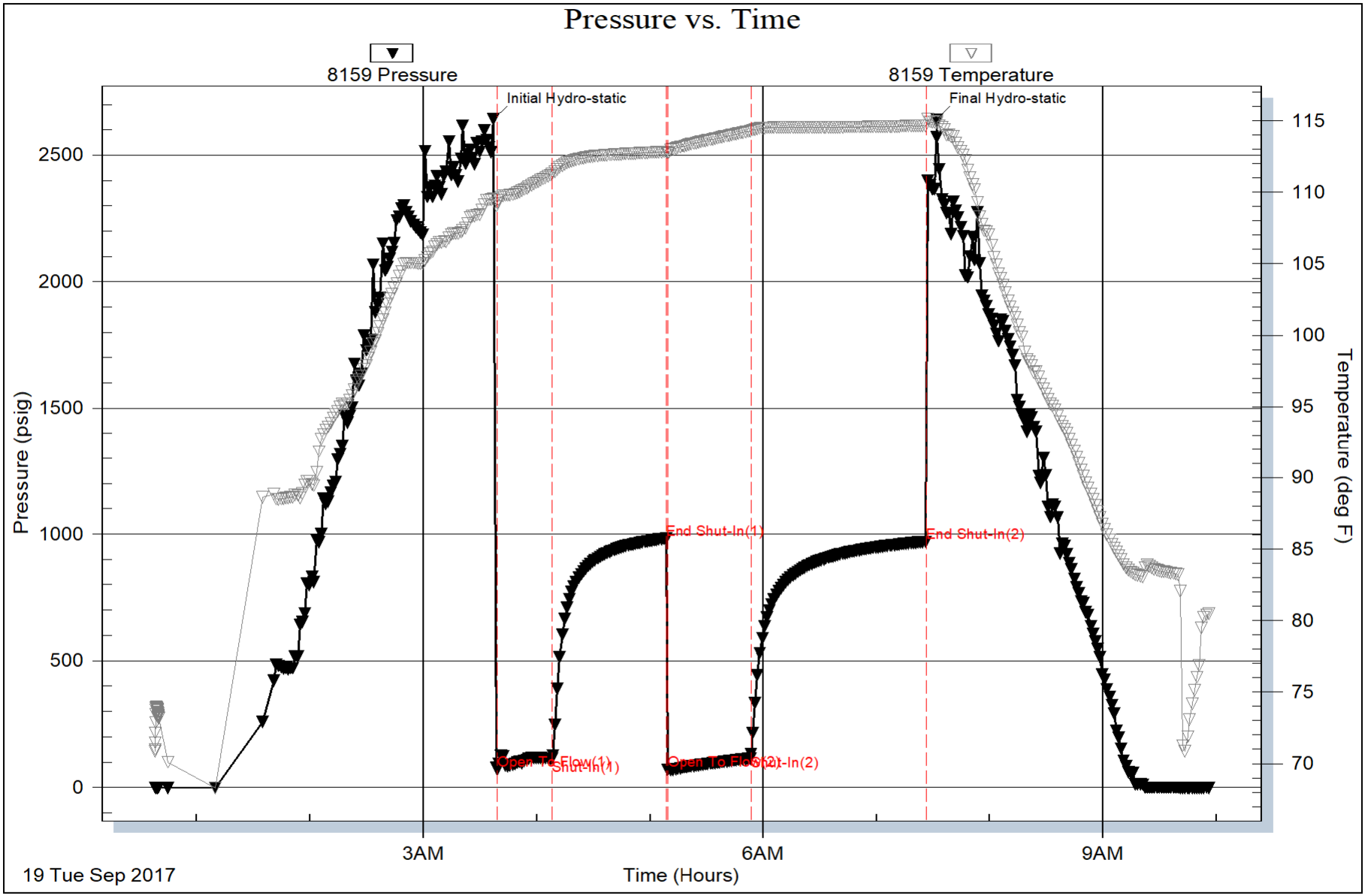
Total Length: 288.00 ft Total Volume: 4.040 bbl

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

Laboratory Name: Laboratory Location:

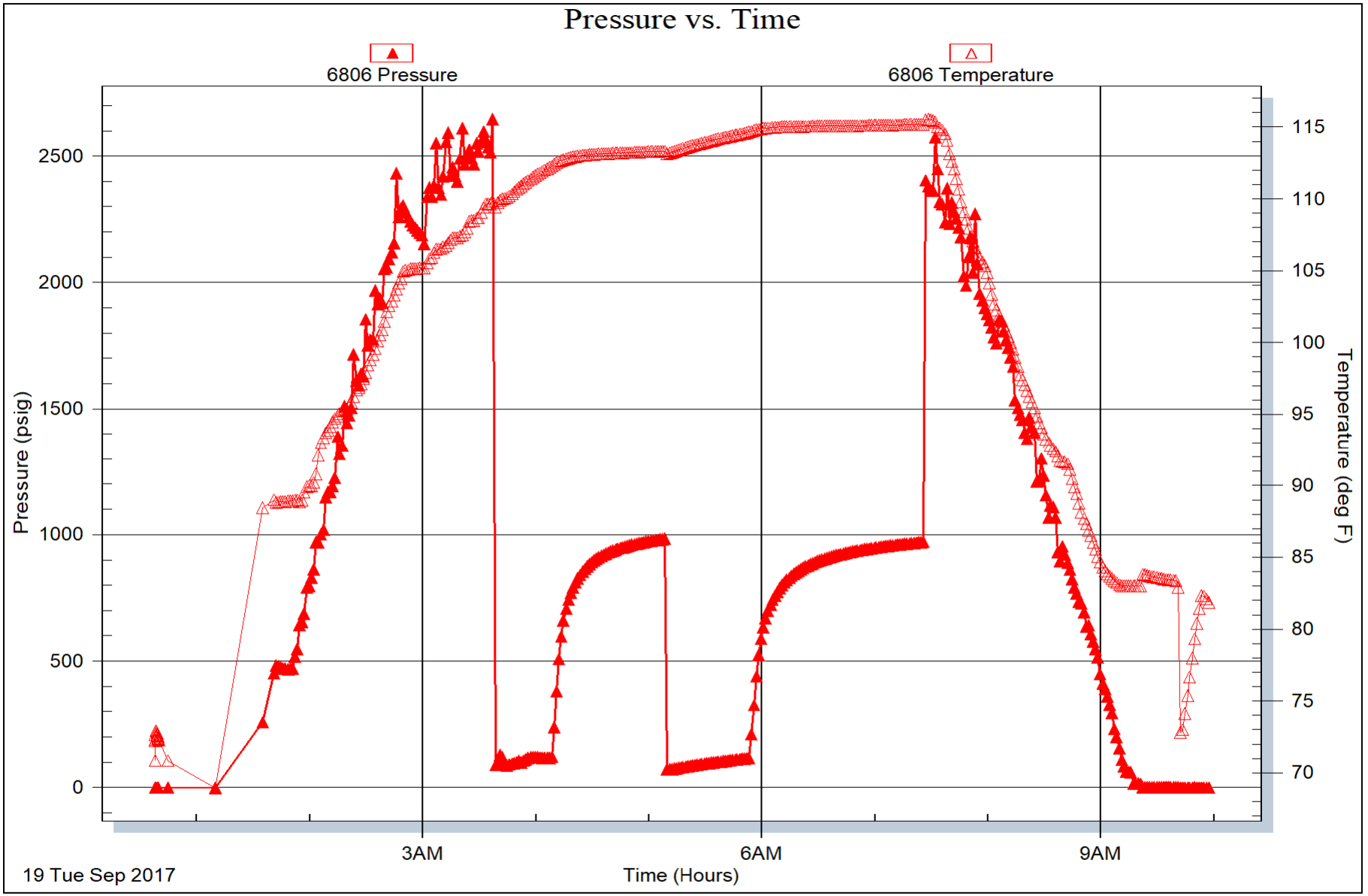
Recovery Comments: RW was .12 @ 83 degrees

Serial #: 8159 **Inside** Vincent Oil Corporation Keough 7-34 DST Test Number: 1




Trilobite Testing, Inc Ref. No: 57828 Printed: 2017.09.19 @ 10:06:54

Serial #: 6806 **Outside** Vincent Oil Corporation Keough 7-34 DST Test Number: 1



# DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Tom Dudgeon

**34-28S-23W Ford**

**Keough 7-34**

Job Ticket: 57829 **DST#: 2**

Test Start: 2017.09.20 @ 06:42:33

## GENERAL INFORMATION:

Formation: **Penn/Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:50:48
Time Test Ended: 14:30:03

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

**Interval: 5172.00 ft (KB) To 5217.00 ft (KB) (TVD)**
Total Depth: 5217.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

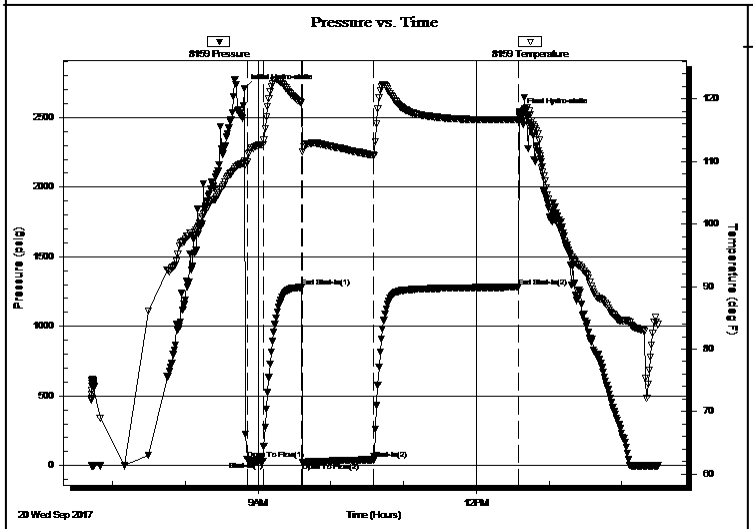
Reference Elevations: 2547.00 ft (KB)
2535.00 ft (CF)
KB to GR/CF: 12.00 ft

**Serial #: 8159** **Inside**

Press@RunDepth: 41.89 psig @ 5173.00 ft (KB)
Start Date: 2017.09.20 End Date: 2017.09.20
Start Time: 06:42:34 End Time: 14:30:03

Capacity: 8000.00 psig
Last Calib.: 2017.09.20
Time On Btm: 2017.09.20 @ 08:48:48
Time Off Btm: 2017.09.20 @ 12:36:03

TEST COMMENT: IF: Strong Blow , BOB in 1 minute
ISI: No Blow Back
FF: Strong Blow , BOB immediate, GTS in 30 seconds, Gauged & Caught Sample
FSI: No Blow Back




## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|---|---|---|---|
| 0 | 2708.52 | 110.06 | Initial Hydro-static |
| 2 | 45.50 | 109.90 | Open To Flow (1) |
| 16 | 32.97 | 112.68 | Shut-In(1) |
| 47 | 1280.02 | 119.42 | End Shut-In(1) |
| 48 | 21.32 | 111.54 | Open To Flow (2) |
| 107 | 41.89 | 110.98 | Shut-In(2) |
| 227 | 1281.26 | 116.67 | End Shut-In(2) |
| 228 | 2537.73 | 117.55 | Final Hydro-static |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 0.00 | GTS | 0.00 |
| 20.00 | SGCM 2%G 98%M | 0.28 |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

## Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|---|---|---|---|
| First Gas Rate | 0.25 | 10.00 | 38.71 |
| Last Gas Rate | 0.25 | 25.00 | 62.50 |
| Max. Gas Rate | 0.25 | 25.00 | 62.50 |

# DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Tom Dudgeon

**34-28S-23W Ford**

**Keough 7-34**

Job Ticket: 57829 **DST#: 2**

Test Start: 2017.09.20 @ 06:42:33

## GENERAL INFORMATION:

Formation: **Penn/Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:50:48
Time Test Ended: 14:30:03

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

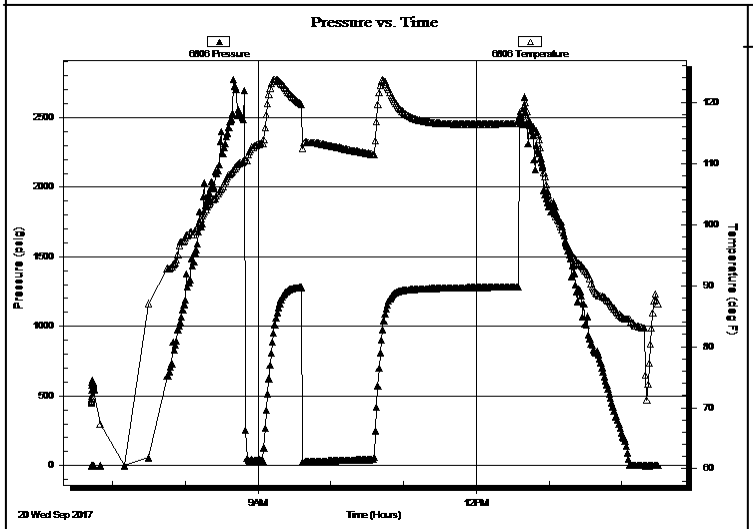
**Interval: 5172.00 ft (KB) To 5217.00 ft (KB) (TVD)**
Total Depth: 5217.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2547.00 ft (KB)
2535.00 ft (CF)
KB to GR/CF: 12.00 ft

**Serial #: 6806** **Outside**
Press@RunDepth: psig @ 5173.00 ft (KB)
Start Date: 2017.09.20 End Date: 2017.09.20
Start Time: 06:42:34 End Time: 14:30:03

Capacity: 8000.00 psig
Last Calib.: 2017.09.20
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 1 minute
ISI: No Blow Back
FF: Strong Blow , BOB immediate, GTS in 30 seconds, Gauged & Caught Sample
FSI: No Blow Back




## PRESSURE SUMMARY

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

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 0.00 | GTS | 0.00 |
| 20.00 | SGCM 2%G 98%M | 0.28 |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

## Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|---|---|---|---|
| First Gas Rate | 0.25 | 10.00 | 38.71 |
| Last Gas Rate | 0.25 | 25.00 | 62.50 |
| Max. Gas Rate | 0.25 | 25.00 | 62.50 |

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Tom Dudgeon

**34-28S-23W Ford**

**Keough 7-34**

Job Ticket: 57829 **DST#: 2**

Test Start: 2017.09.20 @ 06:42:33

## Mud and Cushion Information

| | | | | | |
|---|---|---|---|---|---|
| Mud Type: | Gel Chem | Cushion Type: | | Oil API: | deg API |
| Mud Weight: | 10.00 lb/gal | Cushion Length: | ft | Water Salinity: | ppm |
| Viscosity: | 56.00 sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | 11.58 in³ | Gas Cushion Type: | | | |
| Resistivity: | ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | 7700.00 ppm | | | | |
| Filter Cake: | 0.02 inches | | | | |

## Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|---|---|---|
| 0.00 | GTS | 0.000 |
| 20.00 | SGCM 2%G 98%M | 0.281 |

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

# DRILL STEM TEST REPORT

**GAS RATES**

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Tom Dudgeon

**34-28S-23W Ford**

**Keough 7-34**

Job Ticket: 57829 **DST#: 2**

Test Start: 2017.09.20 @ 06:42:33

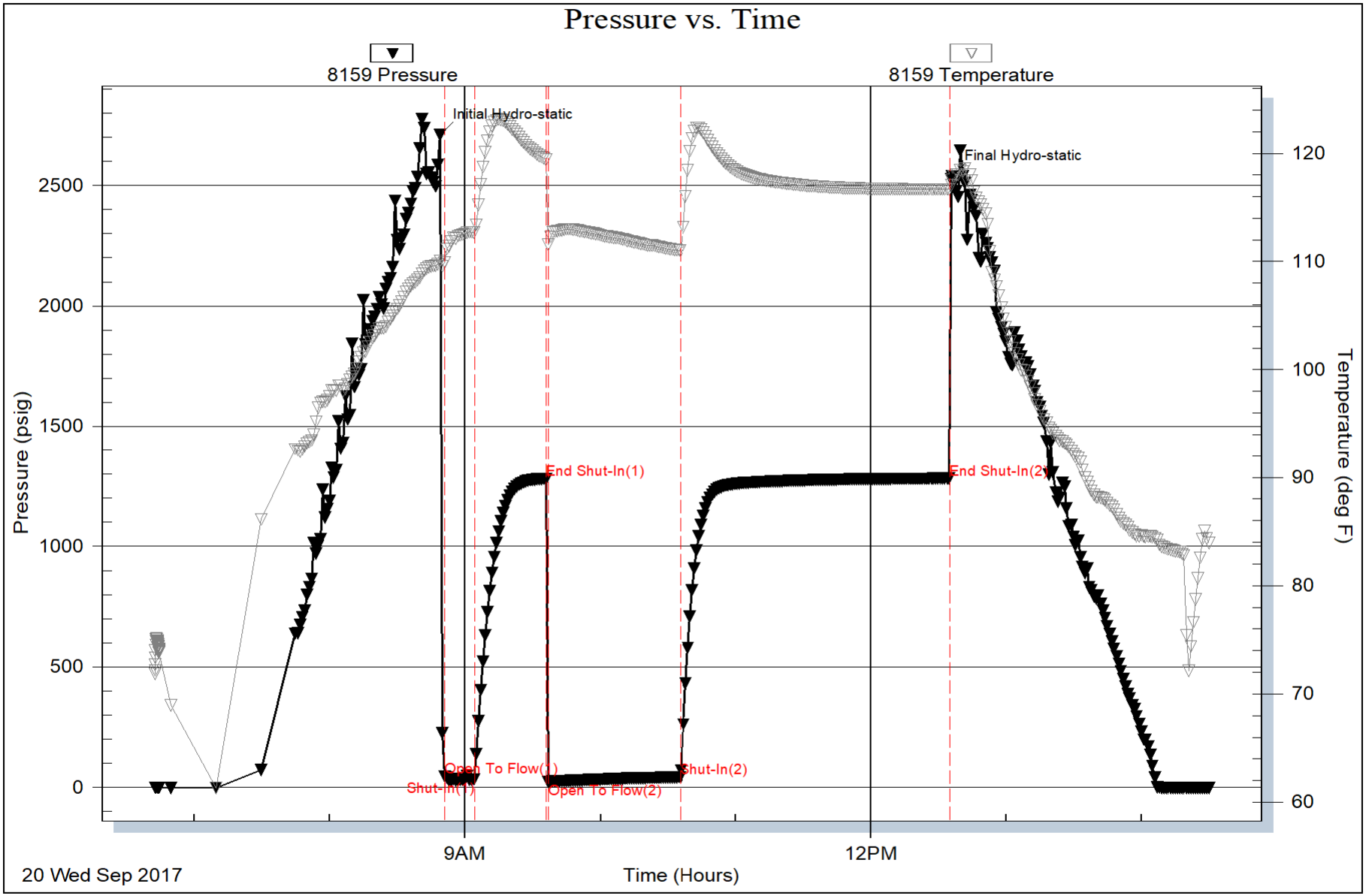
## Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

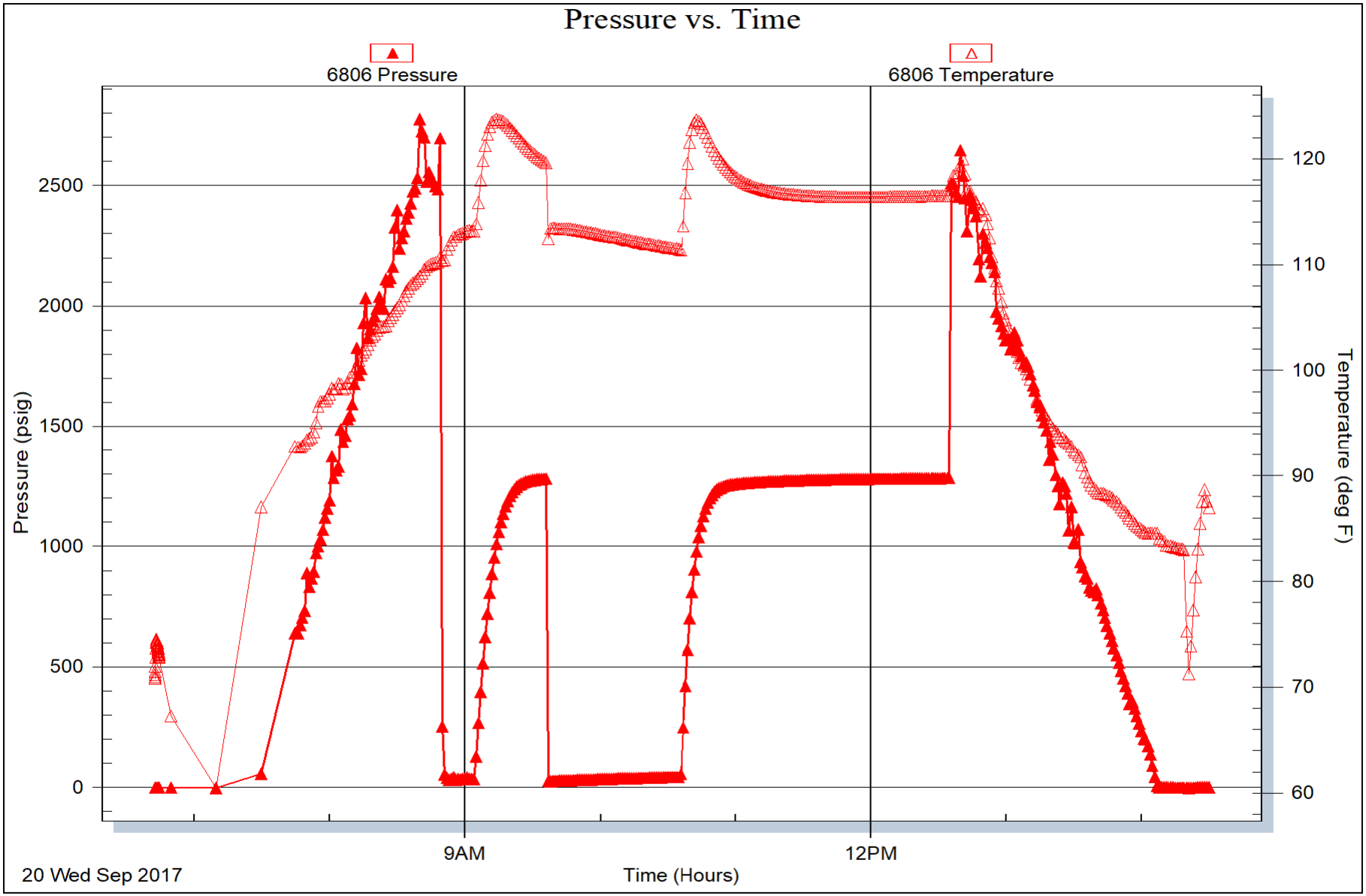
| Flow Period | Elapsed Time | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|---|---|---|---|---|
| 2 | 10 | 0.25 | 10.00 | 38.71 |
| 2 | 10 | 0.25 | 10.00 | 38.71 |
| 2 | 20 | 0.25 | 17.00 | 49.81 |
| 2 | 30 | 0.25 | 20.00 | 54.57 |
| 2 | 40 | 0.25 | 23.00 | 59.33 |
| 2 | 50 | 0.25 | 25.00 | 62.50 |

Serial #: 8159 **Inside** Vincent Oil Corporation Keough 7-34 DST Test Number: 2




Trilobite Testing, Inc Ref. No: 57829 Printed: 2017.09.20 @ 14:41:45

Serial #: 6806 **Outside** Vincent Oil Corporation Keough 7-34 DST Test Number: 2




Trilobite Testing, Inc Ref. No: 57829 Printed: 2017.09.20 @ 14:41:45

# DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Tom Dudgeon

**34-28S-23W Ford**

**Keough 7-34**

Job Ticket: 57830 **DST#: 3**

Test Start: 2017.09.21 @ 00:22:53

## GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:53:38
Time Test Ended: 09:18:53

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

**Interval: 5227.00 ft (KB) To 5250.00 ft (KB) (TVD)**
Total Depth: 5250.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

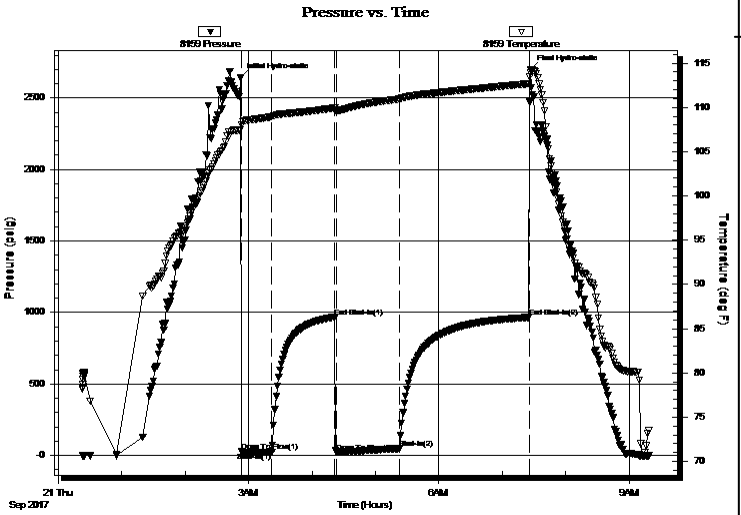
Reference Elevations: 2547.00 ft (KB)
2535.00 ft (CF)
KB to GR/CF: 12.00 ft

**Serial #: 8159** **Inside**

Press@RunDepth: 47.22 psig @ 5228.00 ft (KB)
Start Date: 2017.09.21 End Date: 2017.09.21
Start Time: 00:22:54 End Time: 09:18:53

Capacity: 8000.00 psig
Last Calib.: 2017.09.21
Time On Btm: 2017.09.21 @ 02:52:23
Time Off Btm: 2017.09.21 @ 07:26:38

TEST COMMENT: IF: Strong Blow , BOB in 10 seconds
ISI: No Blow Back
FF: Strong Blow , BOB immediate, GTS in 1 minute, Caught Sample & Gauged
FSI: No Blow Back




## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|---|---|---|---|
| 0 | 2639.99 | 107.48 | Initial Hydro-static |
| 2 | 26.29 | 108.03 | Open To Flow (1) |
| 30 | 23.25 | 108.93 | Shut-In(1) |
| 90 | 968.47 | 109.93 | End Shut-In(1) |
| 91 | 22.68 | 109.65 | Open To Flow (2) |
| 150 | 47.22 | 110.93 | Shut-In(2) |
| 273 | 965.27 | 112.68 | End Shut-In(2) |
| 275 | 2699.72 | 113.87 | Final Hydro-static |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 0.00 | 5233 GIP | 0.00 |
| 80.00 | OCM 20%O 80%M | 1.12 |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

## Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|---|---|---|---|
| First Gas Rate | 0.13 | 3.00 | 6.51 |
| Last Gas Rate | 0.13 | 10.00 | 9.13 |
| Max. Gas Rate | 0.13 | 10.00 | 9.13 |

# DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Tom Dudgeon

**34-28S-23W Ford**

**Keough 7-34**

Job Ticket: 57830 **DST#: 3**

Test Start: 2017.09.21 @ 00:22:53

## GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:53:38
Time Test Ended: 09:18:53

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

**Interval: 5227.00 ft (KB) To 5250.00 ft (KB) (TVD)**
Total Depth: 5250.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

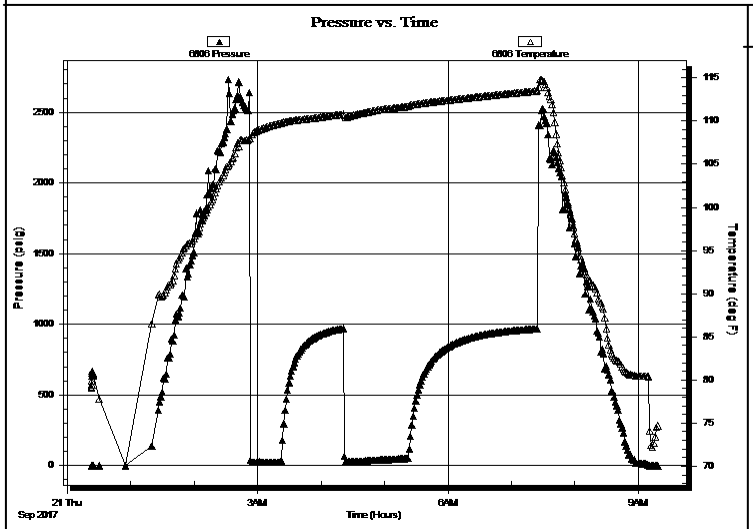
Reference Elevations: 2547.00 ft (KB)
2535.00 ft (CF)
KB to GR/CF: 12.00 ft

**Serial #: 6806** **Outside**

Press@RunDepth: psig @ 5228.00 ft (KB)
Start Date: 2017.09.21 End Date: 2017.09.21
Start Time: 00:22:54 End Time: 09:18:53

Capacity: 8000.00 psig
Last Calib.: 2017.09.21
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 10 seconds
ISI: No Blow Back
FF: Strong Blow , BOB immediate, GTS in 1 minute, Caught Sample & Gauged
FSI: No Blow Back




## PRESSURE SUMMARY

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

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 0.00 | 5233 GIP | 0.00 |
| 80.00 | OCM 20%O 80%M | 1.12 |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

## Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|---|---|---|---|
| First Gas Rate | 0.13 | 3.00 | 6.51 |
| Last Gas Rate | 0.13 | 10.00 | 9.13 |
| Max. Gas Rate | 0.13 | 10.00 | 9.13 |

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Tom Dudgeon

**34-28S-23W Ford**

**Keough 7-34**

Job Ticket: 57830 **DST#: 3**

Test Start: 2017.09.21 @ 00:22:53

## Mud and Cushion Information

| | | | | | |
|---|---|---|---|---|---|
| Mud Type: | Gel Chem | Cushion Type: | | Oil API: | deg API |
| Mud Weight: | 10.00 lb/gal | Cushion Length: | ft | Water Salinity: | ppm |
| Viscosity: | 56.00 sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | 11.58 in³ | Gas Cushion Type: | | | |
| Resistivity: | ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | 7700.00 ppm | | | | |
| Filter Cake: | 0.02 inches | | | | |

## Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|---|---|---|
| 0.00 | 5233 GIP | 0.000 |
| 80.00 | OCM 20%O 80%M | 1.122 |

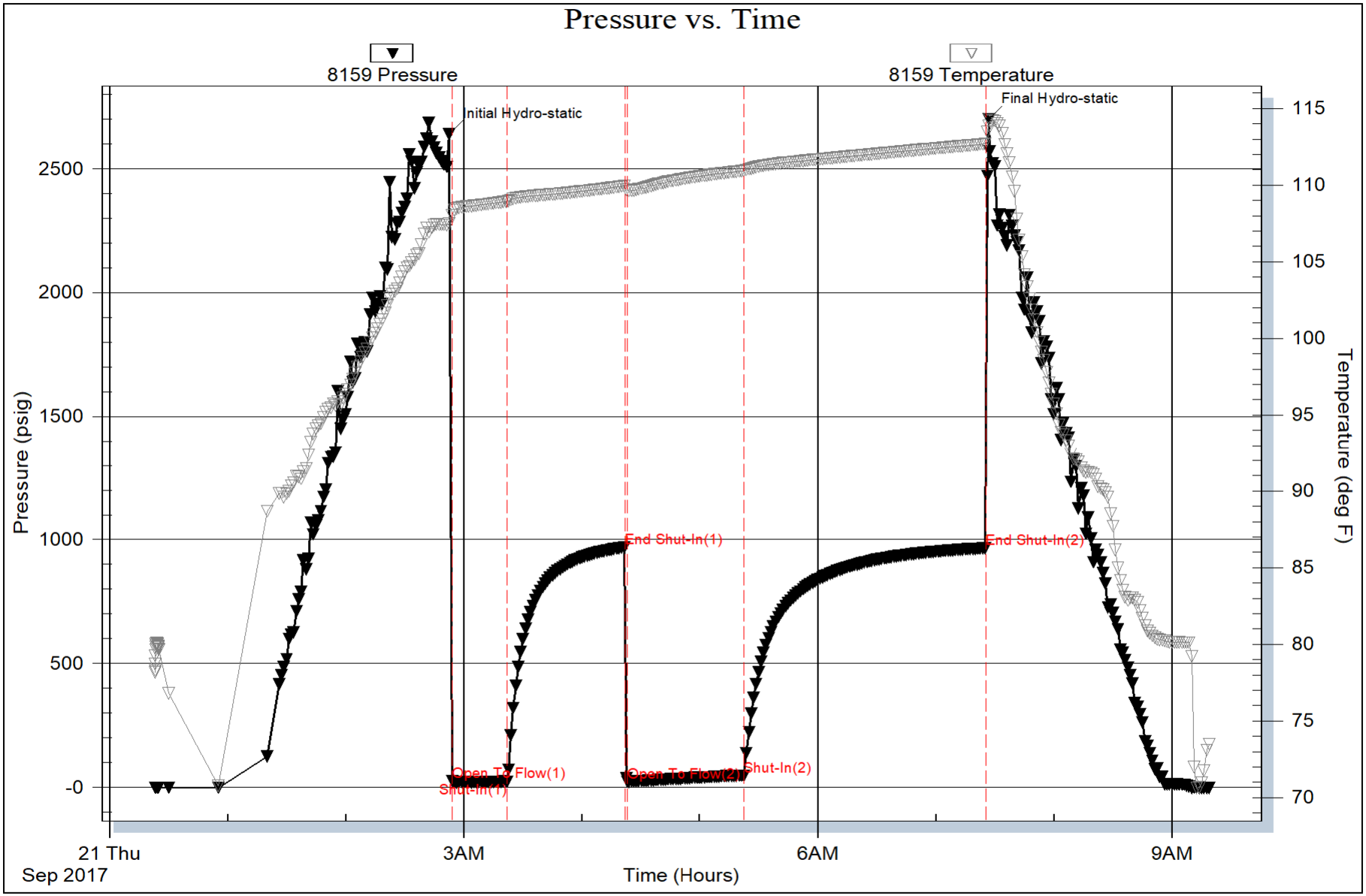
Total Length: 80.00 ft Total Volume: 1.122 bbl

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

Laboratory Name: Laboratory Location:

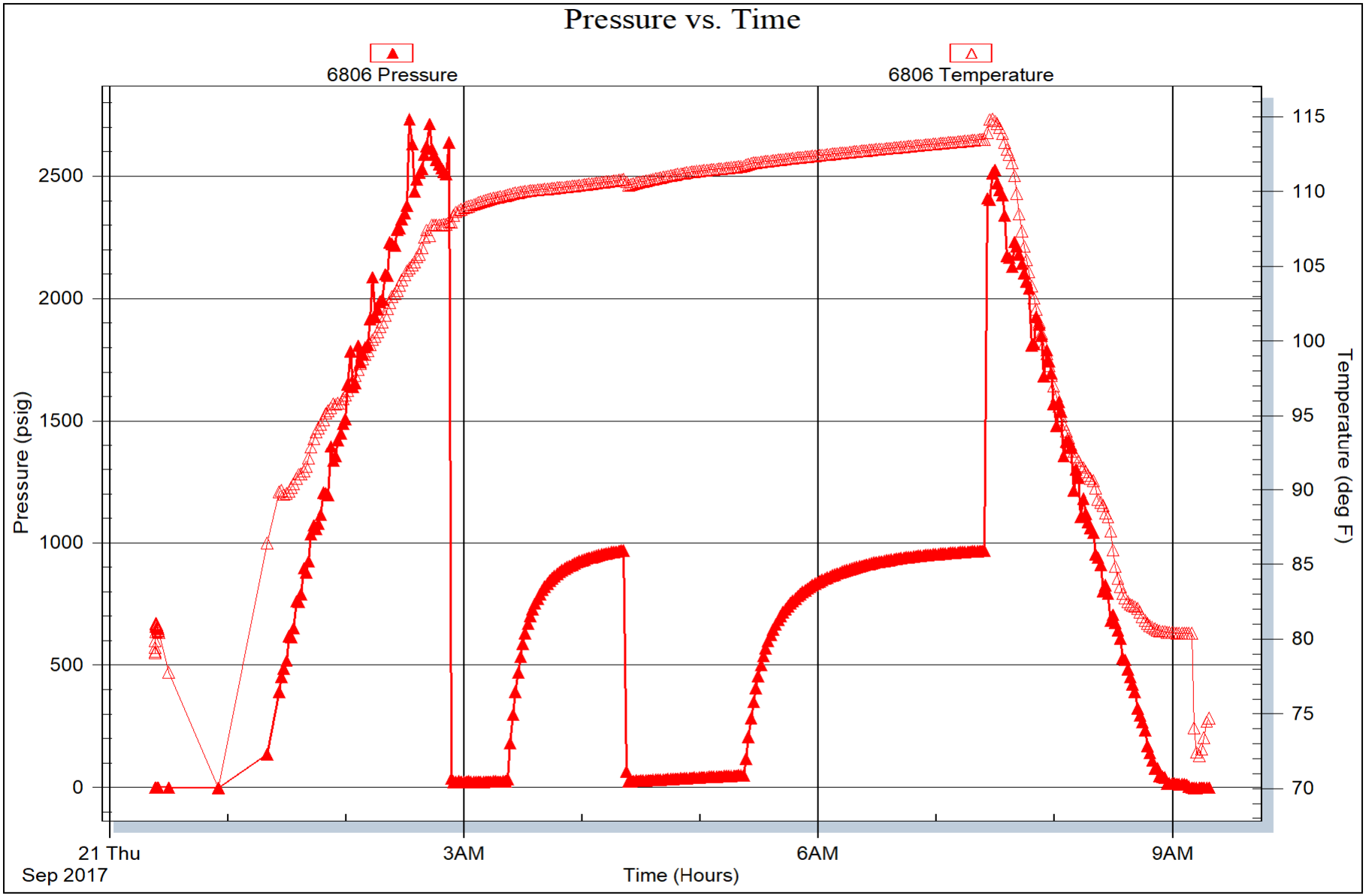
Recovery Comments:

Serial #: 8159 **Inside** Vincent Oil Corporation Keough 7-34 DST Test Number: 3




Trilobite Testing, Inc Ref. No: 57830 Printed: 2017.09.21 @ 09:29:01

Serial #: 6806 **Outside** Vincent Oil Corporation Keough 7-34 DST Test Number: 3




Trilobite Testing, Inc Ref. No: 57830 Printed: 2017.09.21 @ 09:29:02

# DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Tom Dudgeon

**34-28S-23W Ford**

**Keough 7-34**

Job Ticket: 57831 **DST#: 4**

Test Start: 2017.09.21 @ 23:27:14

## GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:47:44
Time Test Ended: 09:23:59

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

**Interval: 5258.00 ft (KB) To 5284.00 ft (KB) (TVD)**
Total Depth: 5284.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

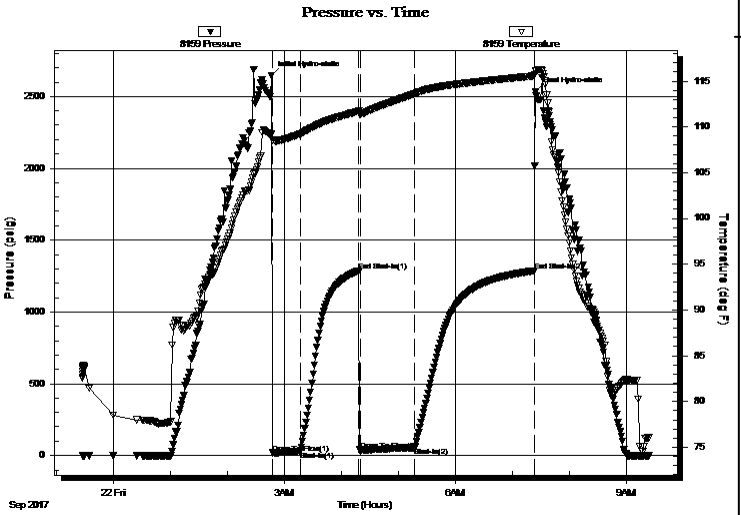
Reference Elevations: 2547.00 ft (KB)
2535.00 ft (CF)
KB to GR/CF: 12.00 ft

**Serial #: 8159** **Inside**

Press@RunDepth: 54.84 psig @ 5259.00 ft (KB)
Start Date: 2017.09.21 End Date: 2017.09.22
Start Time: 23:27:15 End Time: 09:23:59

Capacity: 8000.00 psig
Last Calib.: 2017.09.22
Time On Btm: 2017.09.22 @ 02:46:29
Time Off Btm: 2017.09.22 @ 07:24:44

TEST COMMENT: IF: Fair Blow , BOB in 8 minutes
ISI: No Blow Back
FF: Strong Blow , BOB in 1 minute
FSI: No Blow Back




## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|---|---|---|---|
| 0 | 2647.43 | 109.20 | Initial Hydro-static |
| 2 | 19.06 | 108.55 | Open To Flow (1) |
| 31 | 29.29 | 109.23 | Shut-In(1) |
| 92 | 1285.27 | 111.71 | End Shut-In(1) |
| 94 | 32.70 | 111.40 | Open To Flow (2) |
| 151 | 54.84 | 113.62 | Shut-In(2) |
| 278 | 1286.03 | 115.57 | End Shut-In(2) |
| 279 | 2530.87 | 116.10 | Final Hydro-static |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 0.00 | 3934 GIP | 0.00 |
| 90.00 | GOCM 20%G 20%O 60%M | 1.26 |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

## Gas Rates

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

# DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Tom Dudgeon

**34-28S-23W Ford**

**Keough 7-34**

Job Ticket: 57831 **DST#: 4**

Test Start: 2017.09.21 @ 23:27:14

## GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:47:44
Time Test Ended: 09:23:59

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

**Interval: 5258.00 ft (KB) To 5284.00 ft (KB) (TVD)**
Total Depth: 5284.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

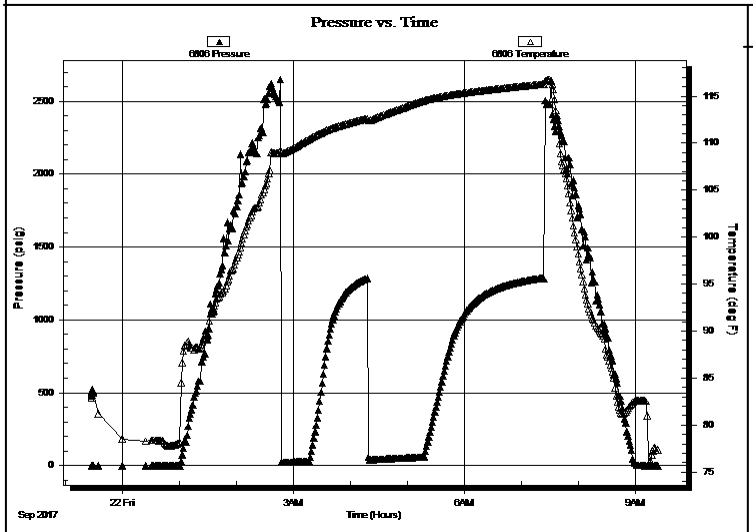
Reference Elevations: 2547.00 ft (KB)
2535.00 ft (CF)
KB to GR/CF: 12.00 ft

**Serial #: 6806** **Outside**

Press@RunDepth: psig @ 5259.00 ft (KB)
Start Date: 2017.09.21 End Date: 2017.09.22
Start Time: 23:27:15 End Time: 09:24:14

Capacity: 8000.00 psig
Last Calib.: 2017.09.22
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Fair Blow , BOB in 8 minutes
ISI: No Blow Back
FF: Strong Blow , BOB in 1 minute
FSI: No Blow Back




## PRESSURE SUMMARY

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

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 0.00 | 3934 GIP | 0.00 |
| 90.00 | GOCM 20%G 20%O 60%M | 1.26 |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

## Gas Rates

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

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Tom Dudgeon

**34-28S-23W Ford**

**Keough 7-34**

Job Ticket: 57831 **DST#: 4**

Test Start: 2017.09.21 @ 23:27:14

## Mud and Cushion Information

| | | | | | |
|---|---|---|---|---|---|
| Mud Type: | Gel Chem | Cushion Type: | | Oil API: | deg API |
| Mud Weight: | 10.00 lb/gal | Cushion Length: | ft | Water Salinity: | ppm |
| Viscosity: | 56.00 sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | 11.57 in³ | Gas Cushion Type: | | | |
| Resistivity: | ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | 7700.00 ppm | | | | |
| Filter Cake: | 0.02 inches | | | | |

## Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|---|---|---|
| 0.00 | 3934 GIP | 0.000 |
| 90.00 | GOCM 20%G 20%O 60%M | 1.262 |

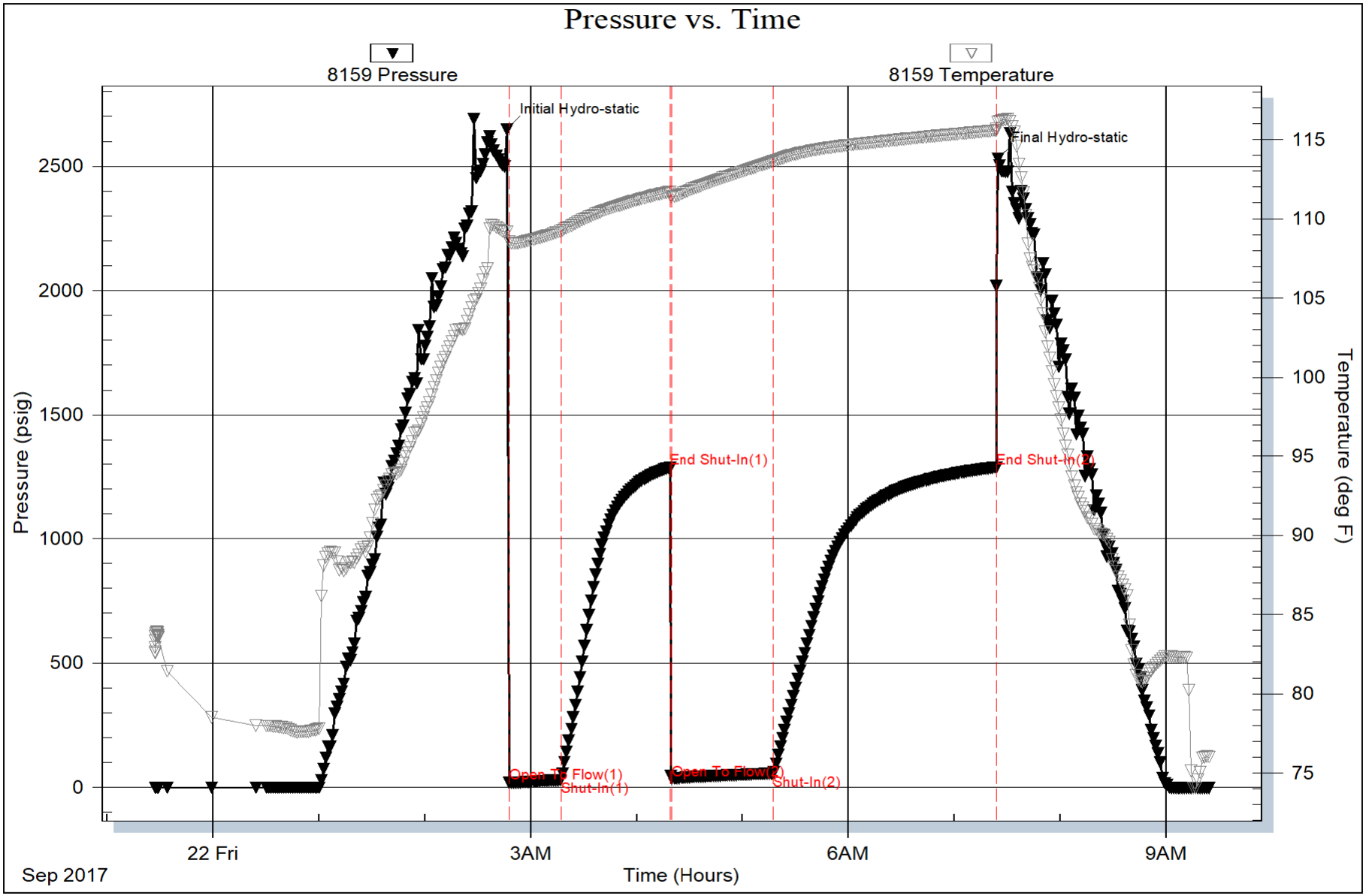
Total Length: 90.00 ft Total Volume: 1.262 bbl

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

Laboratory Name: Laboratory Location:

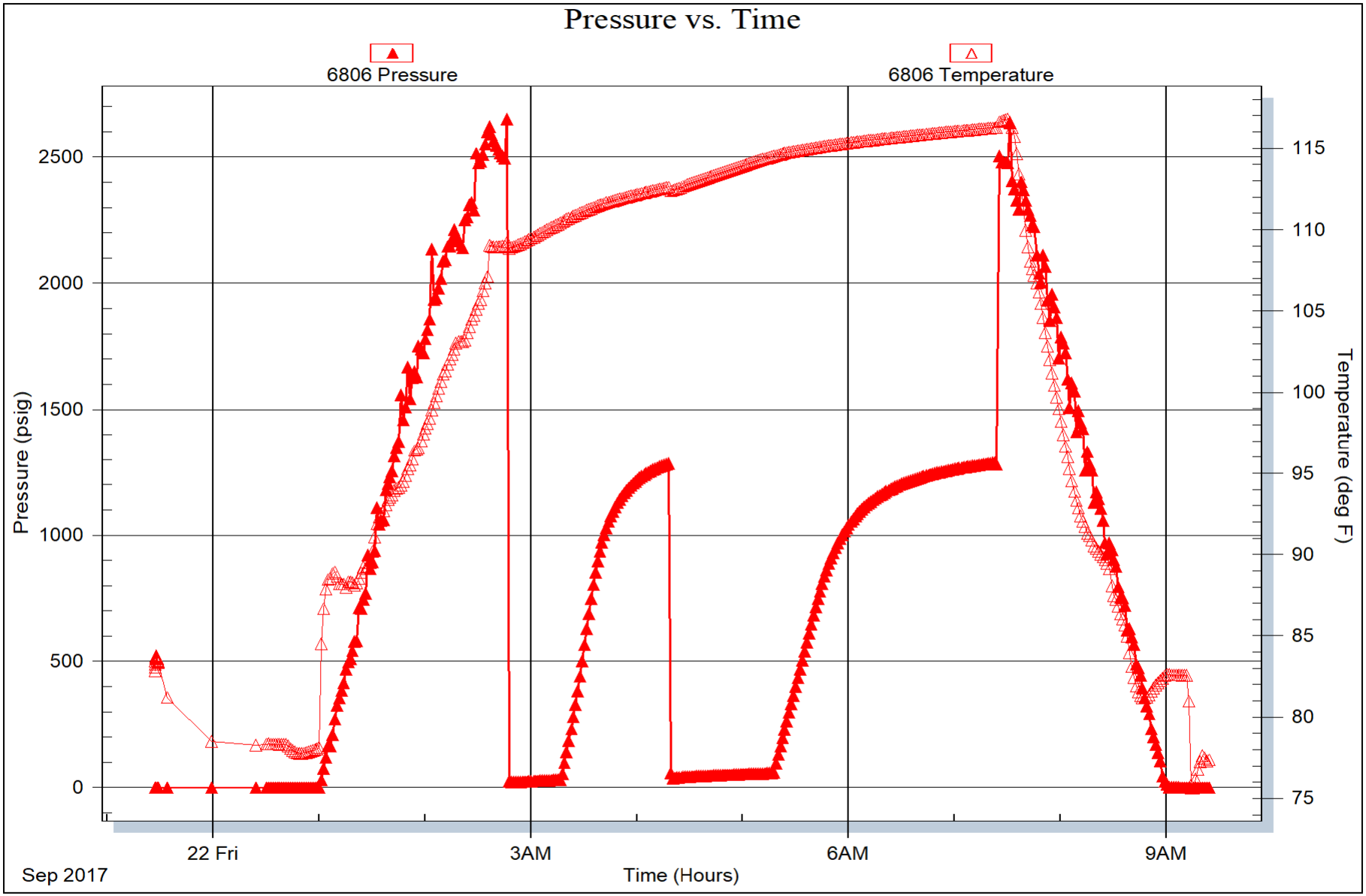
Recovery Comments:

Serial #: 8159 **Inside** Vincent Oil Corporation Keough 7-34 DST Test Number: 4




Trilobite Testing, Inc Ref. No: 57831 Printed: 2017.09.22 @ 09:53:32

Serial #: 6806 **Outside** Vincent Oil Corporation Keough 7-34 DST Test Number: 4




Trilobite Testing, Inc Ref. No: 57831 Printed: 2017.09.22 @ 09:53:33

# DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Tom Dudgeon

**34-28S-23W Ford**

**Keough 7-34**

Job Ticket: 57832 **DST#: 5**

Test Start: 2017.09.22 @ 19:16:08

## GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:21:08
Time Test Ended: 03:37:53

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

**Interval: 5294.00 ft (KB) To 5320.00 ft (KB) (TVD)**
Total Depth: 5320.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

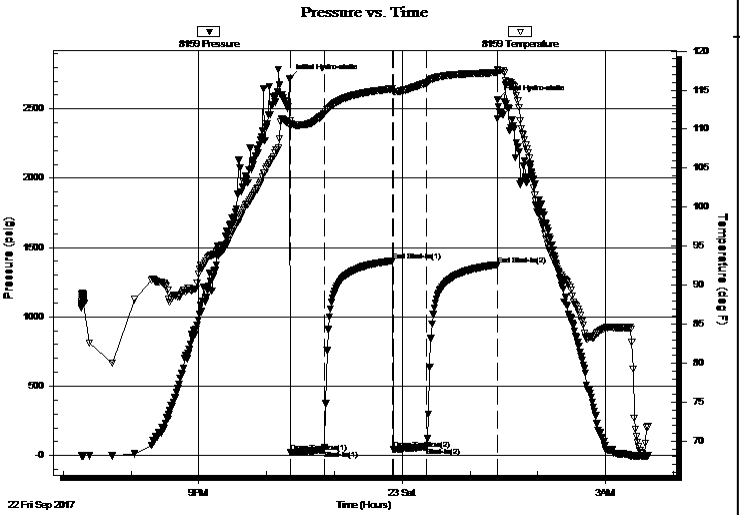
Reference Elevations: 2547.00 ft (KB)
2535.00 ft (CF)
KB to GR/CF: 12.00 ft

**Serial #: 8159** **Inside**

Press@RunDepth: 61.94 psig @ 5295.00 ft (KB)
Start Date: 2017.09.22 End Date: 2017.09.23
Start Time: 19:16:09 End Time: 03:37:53

Capacity: 8000.00 psig
Last Calib.: 2017.09.23
Time On Btm: 2017.09.22 @ 22:20:23
Time Off Btm: 2017.09.23 @ 01:24:38

TEST COMMENT: IF: Weak Blow , Built to 1 1/2 inches
ISI: No Blow Back
FF: Weak 1 inch Blow
FSI: No Blow Back




## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|---|---|---|---|
| 0 | 2719.78 | 111.02 | Initial Hydro-static |
| 1 | 20.52 | 110.32 | Open To Flow (1) |
| 31 | 40.91 | 111.95 | Shut-In(1) |
| 91 | 1404.11 | 115.18 | End Shut-In(1) |
| 92 | 42.97 | 114.84 | Open To Flow (2) |
| 121 | 61.94 | 115.91 | Shut-In(2) |
| 184 | 1376.09 | 117.25 | End Shut-In(2) |
| 185 | 2565.80 | 117.63 | Final Hydro-static |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 80.00 | WCM 30%W 70%M | 1.12 |
| | | |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

## Gas Rates

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

# DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Tom Dudgeon

**34-28S-23W Ford**

**Keough 7-34**

Job Ticket: 57832 **DST#: 5**

Test Start: 2017.09.22 @ 19:16:08

## GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:21:08
Time Test Ended: 03:37:53

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

**Interval: 5294.00 ft (KB) To 5320.00 ft (KB) (TVD)**
Total Depth: 5320.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

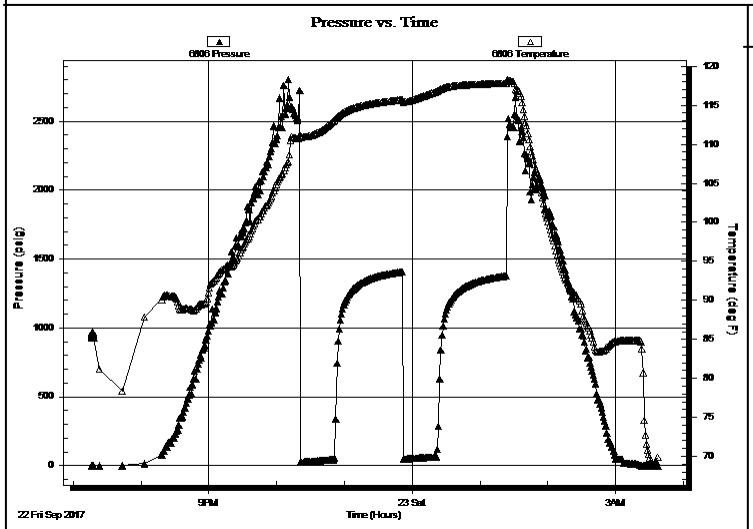
Reference Elevations: 2547.00 ft (KB)
2535.00 ft (CF)
KB to GR/CF: 12.00 ft

**Serial #: 6806** **Outside**

Press@RunDepth: psig @ 5295.00 ft (KB)
Start Date: 2017.09.22 End Date: 2017.09.23
Start Time: 19:16:09 End Time: 03:37:53

Capacity: 8000.00 psig
Last Calib.: 2017.09.23
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Weak Blow , Built to 1 1/2 inches
ISI: No Blow Back
FF: Weak 1 inch Blow
FSI: No Blow Back




## PRESSURE SUMMARY

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

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 80.00 | WCM 30%W 70%M | 1.12 |
| | | |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

## Gas Rates

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

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Tom Dudgeon

**34-28S-23W Ford**

**Keough 7-34**

Job Ticket: 57832 **DST#: 5**

Test Start: 2017.09.22 @ 19:16:08

## Mud and Cushion Information

| | | | | | |
|---|---|---|---|---|---|
| Mud Type: | Gel Chem | Cushion Type: | | Oil API: | deg API |
| Mud Weight: | 10.00 lb/gal | Cushion Length: | ft | Water Salinity: | 58000 ppm |
| Viscosity: | 56.00 sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | 11.57 in³ | Gas Cushion Type: | | | |
| Resistivity: | ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | 7700.00 ppm | | | | |
| Filter Cake: | 0.02 inches | | | | |

## Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|---|---|---|
| 80.00 | WCM 30%W 70%M | 1.122 |

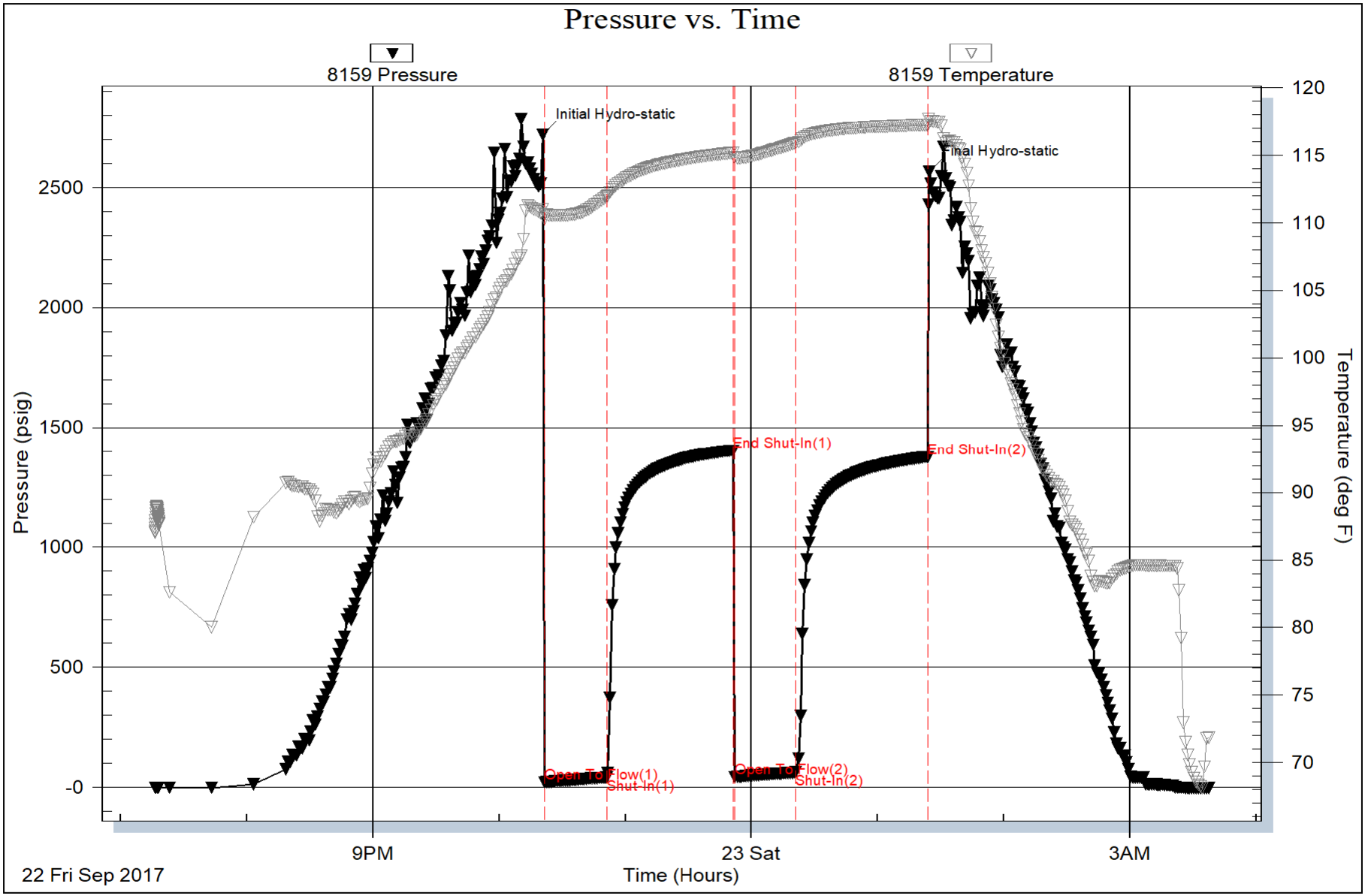
Total Length: 80.00 ft Total Volume: 1.122 bbl

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

Laboratory Name: Laboratory Location:

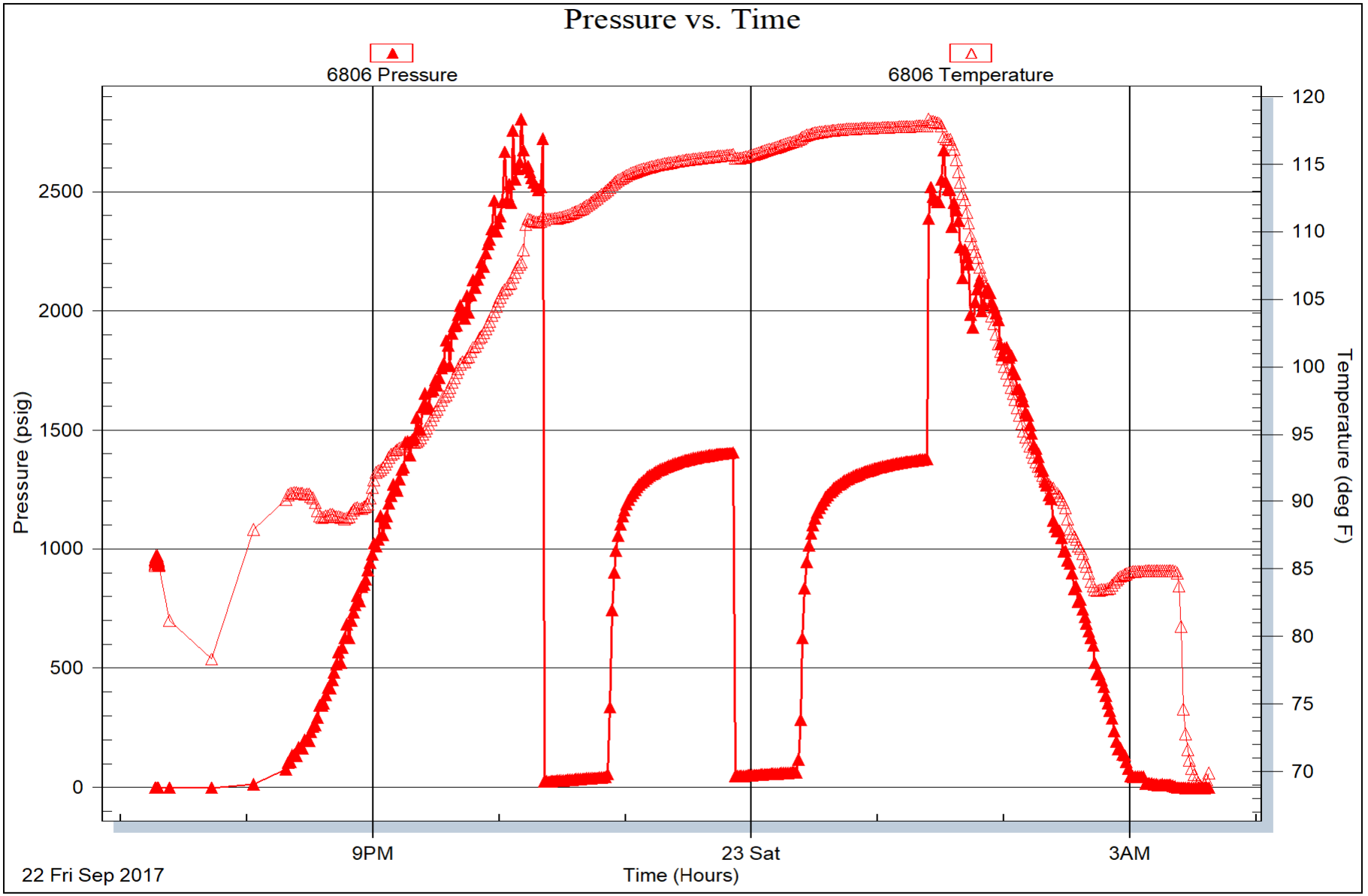
Recovery Comments: RW w as .15 @ 63 degrees

Serial #: 8159 **Inside** Vincent Oil Corporation Keough 7-34 DST Test Number: 5




Trilobite Testing, Inc Ref. No: 57832 Printed: 2017.09.23 @ 08:04:22

Serial #: 6806 **Outside** Vincent Oil Corporation Keough 7-34 DST Test Number: 5




Trilobite Testing, Inc Ref. No: 57832 Printed: 2017.09.23 @ 08:04:22


Scale 1:240 Imperial

| | | | |
|---|---|---|---|
| Well Name: | Keough 7-34 | | |
| Surface Location: | NE NE NE SW 34-28s-23w | | |
| Bottom Location: | | | |
| API: | 15-057-20985-00-00 | | |
| License Number: | 5004 | | |
| Spud Date: | 9/11/2017 | Time: | 8:00 PM |
| Region: | | | |
| Drilling Completed: | 9/23/2017 | Time: | 2:09 PM |
| Surface Coordinates: | 2585 FSL & 2409 FWL | | |
| Bottom Hole Coordinates: | | | |
| Ground Elevation: | 2535.00ft | | |
| K.B. Elevation: | 2547.00ft | | |
| Logged Interval: | 4250.00ft | To: | 5370.00ft |
| Total Depth: | 5370.00ft | | |
| Formation: | Mississippian | | |
| Drilling Fluid Type: | | | |

## OPERATOR

| | | | |
|---|---|---|---|
| Company: | Vincent Oil Corporation | | |
| Address: | 200 W Douglas Ave<br>Ste 725<br>Wichita, KS 67202 | | |
| Contact Geologist: | Dick Jordan | | |
| Contact Phone Nbr: | 316.262.3573 | | |
| Well Name: | Keough 7-34 | | |
| Location: | NE NE NE SW 34-28s-23w | API: | 15-057-20985-00-00 |
| Pool: | Developement-Pool Extension | Field: | Mulberry Creek |
| State: | Kansas | Country: | USA |

## CONTRACTOR

| | | | |
|---|---|---|---|
| Contractor: | Duke Drilling Co., Inc. | | |
| Rig #: | 1 | | |
| Rig Type: | Rotary | | |
| Spud Date: | 9/11/2017 | Time: | 8:00 PM |
| TD Date: | 9/23/2017 | Time: | 2:09 PM |
| Rig Release: | 9/24/2017 | Time: | 5:00 PM |

## LOGGED BY

| | | | |
|---|---|---|---|
| Company: | Vincent Oil Corporation | | |
| Address: | | | |
| Phone Nbr: | 316.262.3573 | | |
| Logged By: | Geologist | Name: | Tom Dudgeon |

## SURFACE CO-ORDINATES

| | | | |
|---|---|---|---|
| Well Type: | Vertical | | |
| Longitude: | -99.8235446 | Latitude: | 37.5644043 |

| | | | |
|---|---|---|---|
| Longitude: | -99.8235446 | Latitude: | 37.5644043 |
| N/S Co-ord: | 2585 FSL | | |
| E/W Co-ord: | 2409 FWL | | |

## ELEVATIONS

| | | | |
|---|---|---|---|
| K.B. Elevation: | 2547.00ft | Ground Elevation: | 2535.00ft |
| K.B. to Ground: | 12.00ft | | |

## TOTAL DEPTH

| Measurement Type: | Measurement Depth: | TVD: |
|---|---|---|
| RTD | 5370.00 | 5372.00 |
| LTD | 5372.00 | 5372.00 |

## DRILLING FLUID SUMMARY

| Type | Date | From Depth | To Depth |
|---|---|---|---|
| | 9/23/2017 | 0.00ft | 0.00ft |

## CASING SUMMARY

| | Surface | Intermediate | Main |
|---|---|---|---|
| Bit Size | 12.25 in | | 12.25 in |
| Hole Size | 7.88 in | | 7.88 in |

| | Size | Set At | Type | # of Joints | Drilled Out At |
|---|---|---|---|---|---|
| Surf Casing | 8.625 in | 689 ft | 23# | 16 | 9/12/2017 8:00 PM |
| Int Casing | | | | | |
| Prod Casing | 4.5 in | 5369 ft | 11.6# | 119 | |

### CASING SEQUENCE

| Type | Hole Size | Casing Size | At |
|---|---|---|---|
| Surface | 12.25 in | 8.63 | 689.00 ft |
| Production | 7.88 in | 4.50 | 5369.00 ft |

## OPEN HOLE LOGS

| | | | |
|---|---|---|---|
| Logging Company: | ELI Wireline | | |
| Logging Engineer: | Jeff Luebbers | | |
| Truck #: | 922339 | | |
| Logging Date: | 9/23/2017 | Time Spent: | 6 |
| # Logs Run: | 4 | # Logs Run Successful: | 4 |

### LOGS RUN

| Tool | Logged Interval | Logged Interval | Hours | Remarks | Run # |
|---|---|---|---|---|---|
| DI | 0.00ft | 5370.00ft | 2.00 | | 1 |
| CNEU/DEN/PE | 4250.00ft | 5370.00ft | 2.00 | | 1 |
| MICRO | 4250.00ft | 5370.00ft | 4.00 | | 2 |
| SONIC | 0.00ft | 5370.00ft | 4.00 | | 2 |

### LOGGING OPERATION SUMMARY

| Date | From | To | Description Of Operation |
|---|---|---|---|
| 9/23/2017 | 0.00ft | 0.00ft | Logs Ran Successfully |

## NOTES

Mud pump clutch failure at 5338', down 4 hrs, replaced, circulated 1 hour to clean hole, drilled ahead.

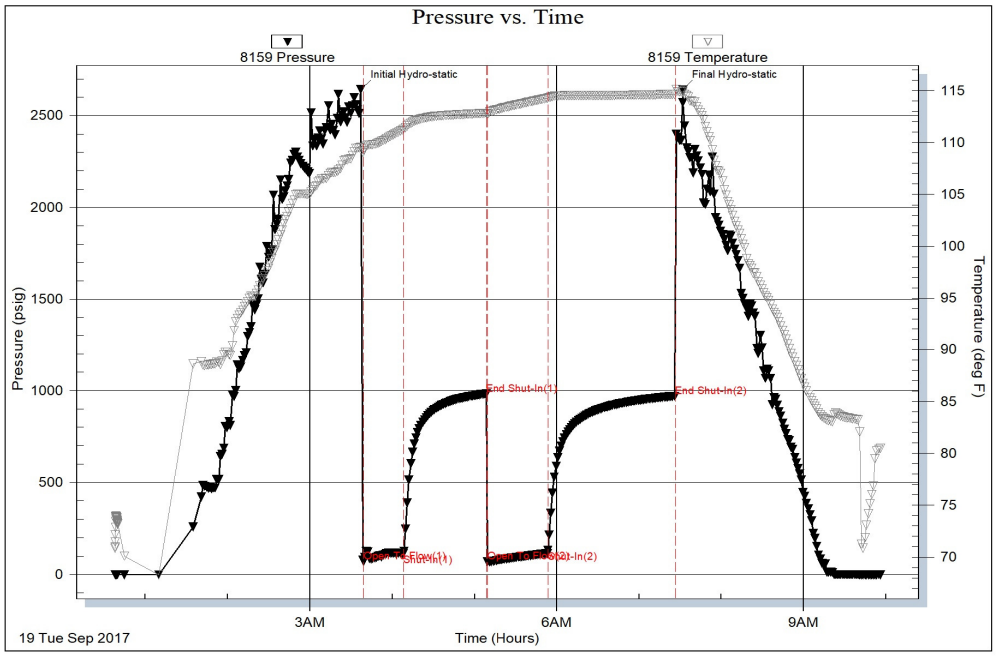
| TOP | Depth | Datum | Struct. |
|---|---|---|---|
| HBR | 4360 | -1813 | -5 |
| BL | 4497 | -1950 | -5 |
| LKC | 4508 | -1961 | -6 |
| MC | 4699 | -2152 | -9 |
| STARK | 4843 | -2296 | -5 |
| HUSH | 4885 | -2338 | -5 |
| BKC | 4963 | -2416 | -8 |
| MARM | 4984 | -2437 | -9 |

| | | | |
|---|---|---|---|
| PAW | 5052 | -2505 | -7 |
| LAB | 5078 | -2531 | -8 |
| CHER | 5098 | -2551 | -5 |
| B/PENN | 5197 | -2650 | -4 |
| MISS | 5215 | -2668 | -5 |

Keying off the Keough 6-34, in the SW NW NE SW of the same section.

## DST #1

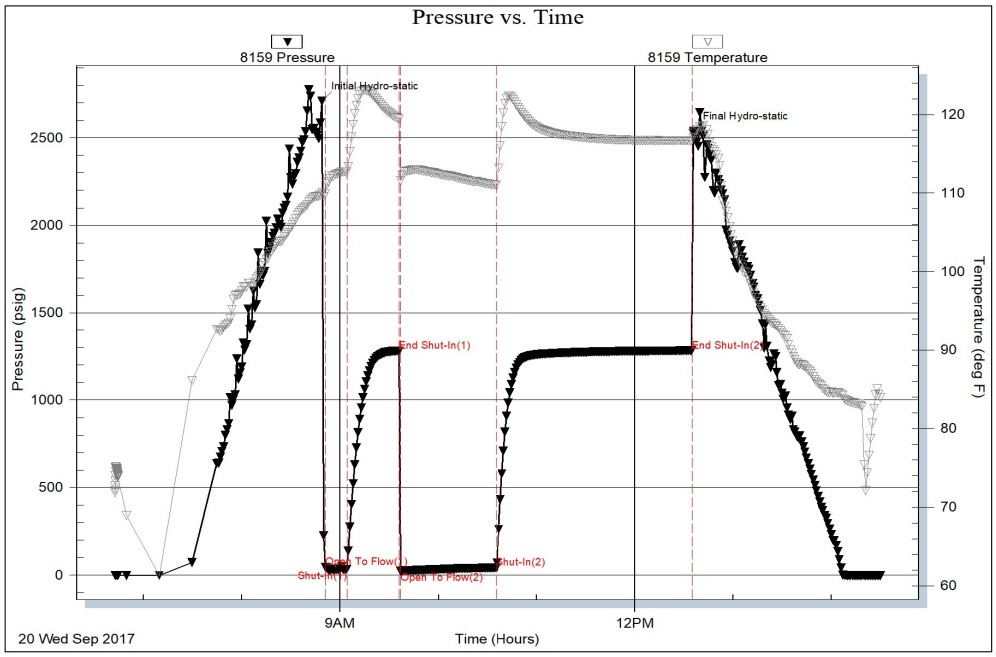
Serial #: 8159 **Inside** Vincent Oil Corporation Keough 7-34 DST Test Number: 1




Trilobite Testing, Inc Ref. No: 57828 Printed: 2017.09.19 @ 10:06:54

## DST #2

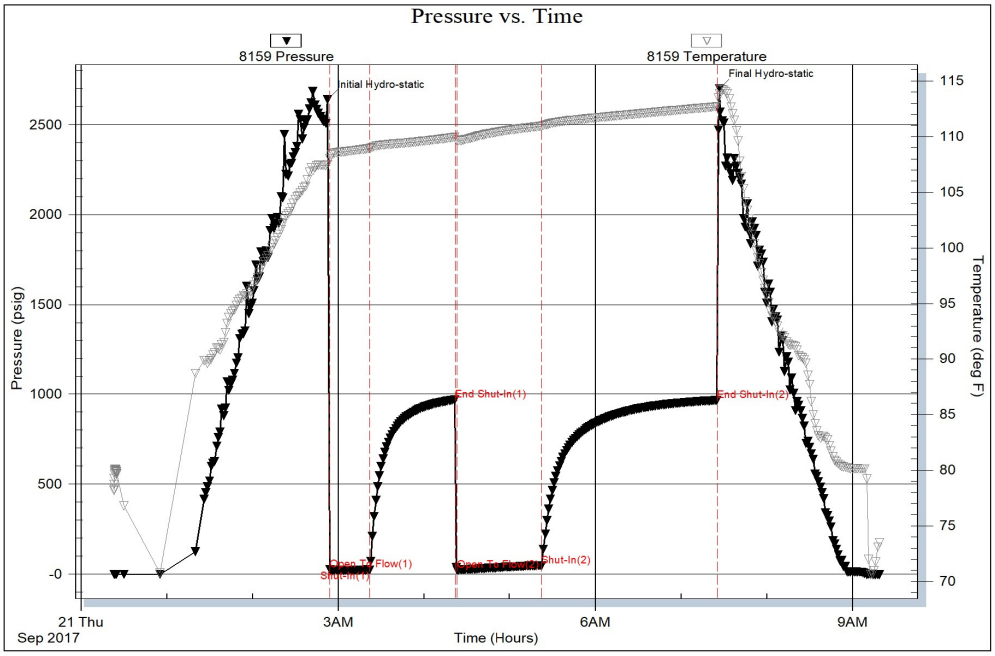
Serial #: 8159 **Inside** Vincent Oil Corporation Keough 7-34 DST Test Number: 2




Trilobite Testing, Inc Ref. No: 57829 Printed: 2017.09.20 @ 14:41:45

## DST #3

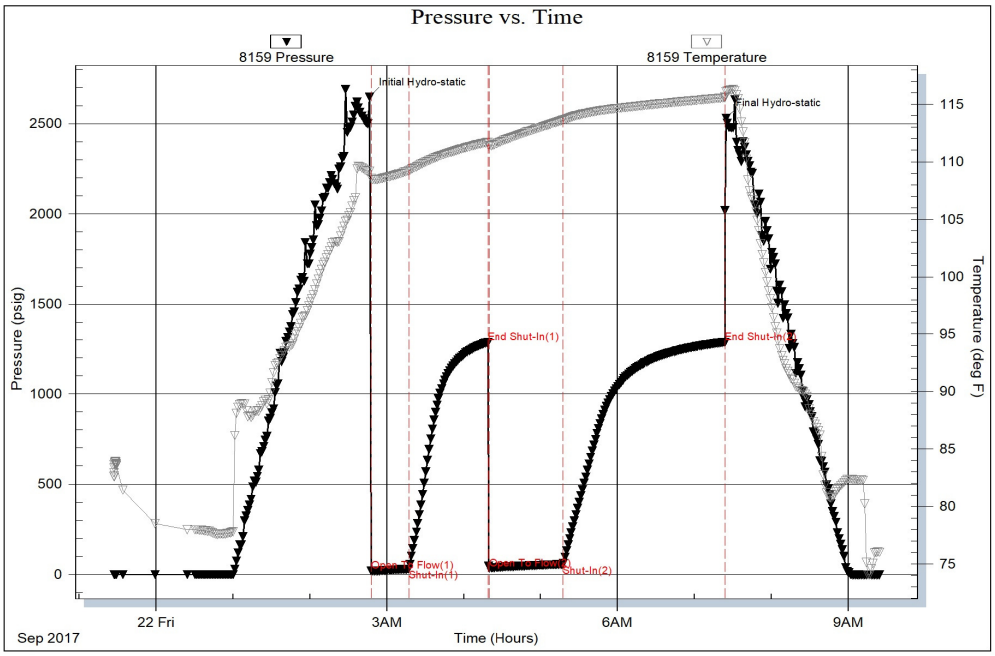
Serial #: 8159 **Inside** Vincent Oil Corporation Keough 7-34 DST Test Number: 3




Trilobite Testing, Inc Ref. No: 57830 Printed: 2017.09.21 @ 09:29:01

## DST #4

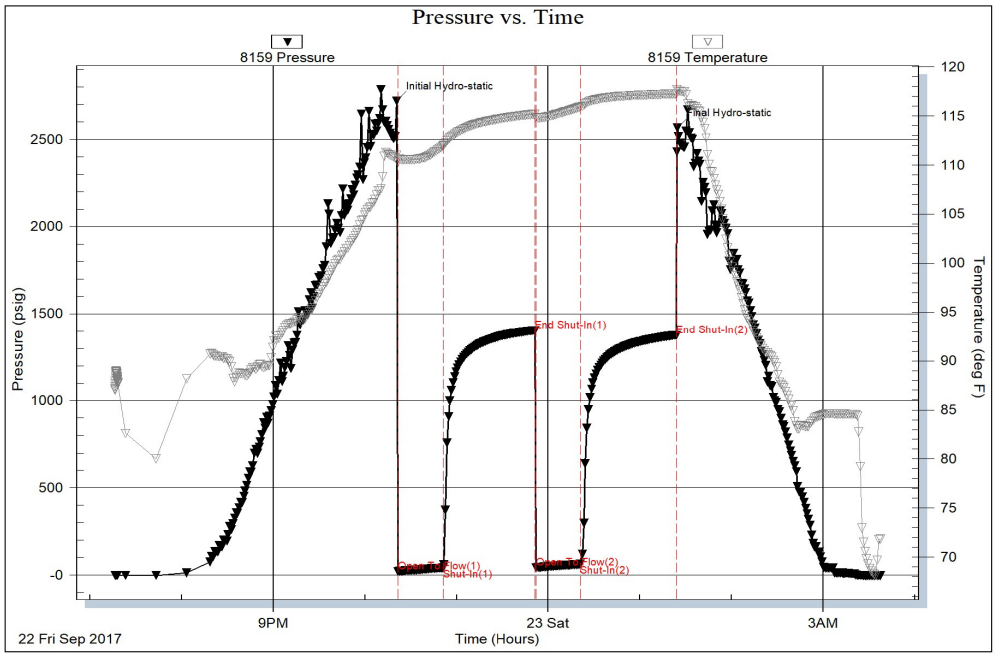
Serial #: 8159 **Inside** Vincent Oil Corporation Keough 7-34 DST Test Number: 4




Trilobite Testing, Inc Ref. No: 57831 Printed: 2017.09.22 @ 09:53:32

## DST #5

Serial #: 8159 **Inside** Vincent Oil Corporation Keough 7-34 DST Test Number: 5




Trilobite Testing, Inc Ref. No: 57832 Printed: 2017.09.23 @ 08:04:22

## ROCK TYPES

Cht, Coal, Dolsec, Lmst fw<7, Lmst fw7>, Ss, Shgy, Shblck, Shcol

## ACCESSORIES

### MINERAL
- Calcareous
- Carbonaceous Flakes
- Chert, dark
- Ferruginous, grains or p
- Glauconite
- Heavy, dark minerals
- Mineral Crystals
- P Pyrite
- Sandy
- Silty
- Euhed rhombs of dol or
- Chert White

### FOSSIL
- Bioclastic or Fragmental
- Brachiopod
- Bryozoa
- Crinoids
- F Fossils < 20%
- Oolite

### STRINGER
- Shale

### TEXTURE
- C Chalky
- e Earthy
- FX FinexIn

### MISC
- Veins

## OTHER SYMBOLS

### POROSITY TYPE
- Intercrystalline
- Interoolitic
- V Vuggy
- P Pinpoint
- Moldic
- O Organic
- F Fracture
- e Earthy
- Fenestral

### OIL SHOWS
- Even Stn
- Spotted Stn 50 - 75 %
- Spotted Stn 25 - 50 %
- Spotted Stn 1 - 25 %
- O Questionable Stn
- D Dead Oil Stn
- Fluorescence

### INTERVALS
- Core
- DST



Curve Track #01
Total Gas (units)
ROP (min/ft)

Depth | Intervals | Porosity Types | Interpreted Lithology | Oil Shows | Geological Descriptions | Comment

1:240 Imperial

Cored

DST

0 Total Gas (units) 200
0 ROP (min/ft) 10

4150
4160
4170
4180
4190
4200
4210
4220
4230
4240
4250
4260
4270
4280
4290
4300
4310
4320
4330
4340
4350
4360

HBR 4360
(-1819)(-5)

**GEO ON LOCATION @ 3:00 PM 9/16/2017**

WS-PS, crm to tan, f-xln, sugary/gritty txt in pard, fossils, firm, some pcs chalky, calcite veins, NS

WS-PS, crm to tan, f-xln, MS, crm to brn, f-xln, chalky to shalky, pcs fossilif., SH, gray, green

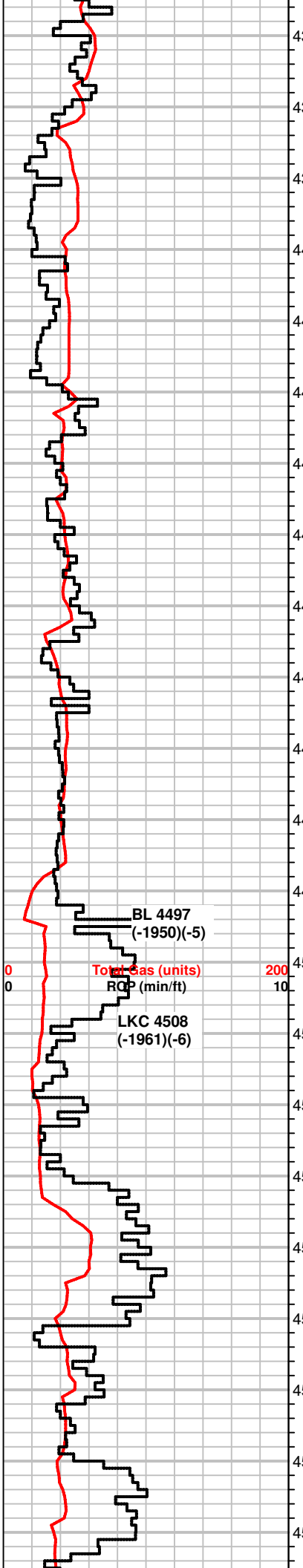
MS-WS, crm to scatt dk. gray, f to m-xln, chalky, some pcs dense, scatt fossils, SH, rare dk. gray, grays

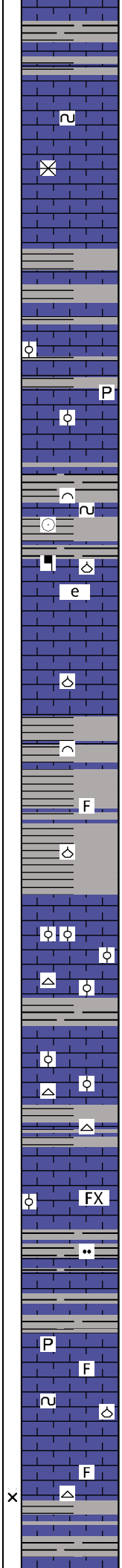
MS-WS, crm to tan, f-xln, firm, gritty to earthy txt, rare fossils, Chert, wht, fossils rare, NS
SH, grays

SH's, dk. gray to gray, silty, carbonaceous in part, rare blk pcs
MS-WS, crm to gry, f-xln, fossils, fulsilinids(whole and frgmts), sli. chalky in part, NS

SH, dk gray, blk, rare gas bubbles

**Gas detection equiptment: Bloodhound Unit 5258 provided by Bluestem Labs**




MS-WS, crm to tan, f-xln, some m-xln, gritty txt, glauc, fossils, soft chalky to dense pcs, rare Chert, white, NS

MS-WS, gray to crm, fxln to mic-xln, dense, glauc specs, most pcs firm, friable, NS

MS, crm to off white, f-xln, earthy to chalky, some pcs shaly, dense to friable/soft, scatt mineral specs, some pcs gray SH scatt

WS-PS, off white to crm, m-xln, m-gr oolitic txt, firm to hard, fossils, rare SH, green, pyrite

SH, blk, gray, striated, sli carb pcs
MS-WS, crm to gray, f-xln, firm/friable to dense, tite fossilif pcs (brachs, crinoids), glauc/mineral specs, NS, dull fluor

MS, crm to tan, f-xln, earthy, gritty txt in some pcs, hard, scatt fossils, Chert frgmts, wht
scatt SH, gray

MS-WS, gray to crm, f-xln, chalky matrix, dark m-gr rinded ooids, soft to firm, fossils,

SH, gray, green

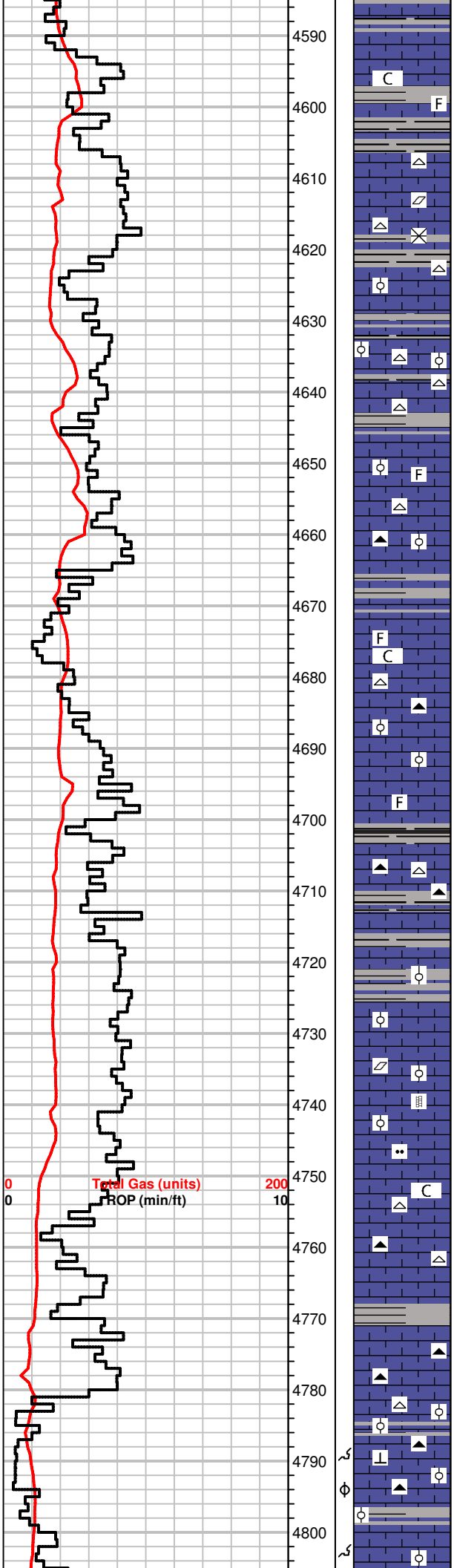
MS-WS, gray to crm, firm to hard, m to f-gr oolitic pcs, some w/ dark concentric rings, fossils
SH, gray, green, scatt dk. gray

MS-WS, crm to tan, f-xln to earthy/massive txt, dense, scatt candy pcs, rare fossils, Chert, wht
Scatt SH, gray

influx, MS, crm, f-xln, dense, chert/fossil frgmts, scatt oolitic pcs, f-gr ooids in dense calcite matrix, NS
scatt SH gray, silty in part

SH, grays, pyrite, silty
MS, crm to tan, vf-xln, dense, pyrite/gluac specs, scatt fossils, NS

MS-WS, crm to off white, f to m-xln, gritty txt, dense, hard, fossils (fusilinids), some mic-xln, massive brn pcs, rare Chert, wht,
scatt SH, gray, green




SH, sea green, gray
MS, crm to lt. gray, f-xln, gritty/sugary txt, dense to chalky pcs, fossils, Chert frgmts, wht, rare co. qtz gr's. angular

MS, crm, f-xln, chalky, A.A., influx MS, gray, mic to f-xln, firm to dense, mineral inclusions, silty in part, calcite, Chert, wht.
rare SH, blk

SH, blk, gray, red
MS-WS, crm to gray, f-xln, girtty/earthy txt, some pcs massive, dense, oolitic, fossils, some in a chalky matrix, Chert, wht

MS, crm to tan, f-xln, massice, dense to chalky matrix, fossils, some fossils, Chert, brn
rare SH, gray, green

MS, crm to tan, f-xln, lesser tan, friable, chalky, firm
Chert, gray, brn, blocky, white fossils

rare SH, blk, green, rare gas bubbles
MS, crm to gray, vf-xln, sugary txt, firm to hard, scatt fossils, sli. chalky, Chert, brn, wht, fossils

MS, A.A., influx, gray, m-xln, m-gr oolitic pcs, soft, fossils, sub oolitic in part, silty
SH, gray, pyrite

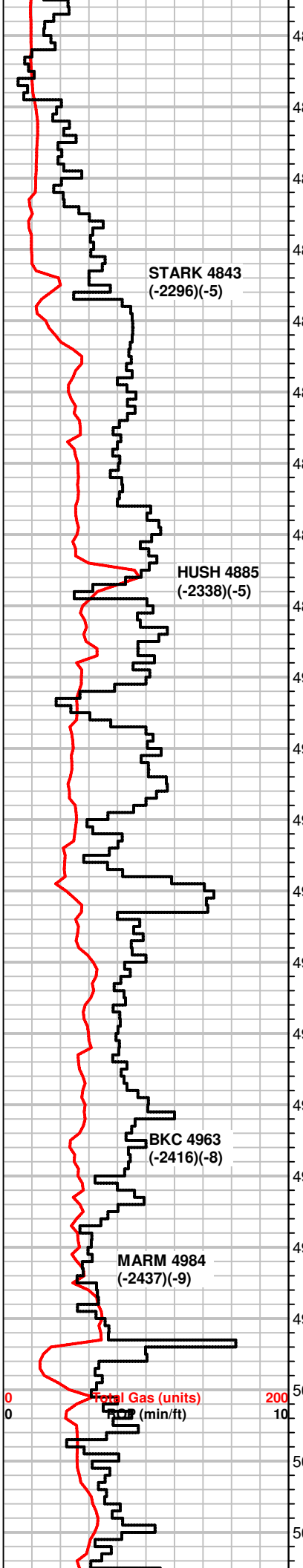
MS, lt. tan to crm, mic-xln, massive, dense, rare fossils, calcite veins, scatt SH, blk, gray, green, silty

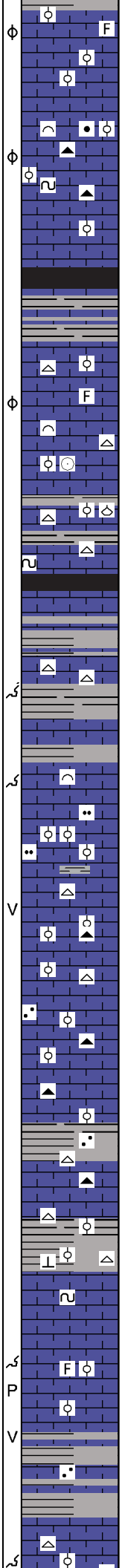
MS, crm to lt. tan, f-xln, some chalky, friable pcs, scatt fossils, Chert, gray, milky wht
SH, gray, brn, silty

rare SH, gray
MS, lt. gray to crm, vf-xln, sli chalky in part, fossils, some pcs mic-xln, dense, scatt minerals, Chert, opaque to brn, fossilif., NS

WS-PS, crm to off white, f-xln, firm to hard, oolitic, m-gr to f-gr ooids in tite calcite mtrx, some pcs friable, calcite rhombs, scatt MS, A.A., Chert, brn, opaque, fossils

SH's, gray



MS-WS, crm to gray, f to m-xln, some chalky pcs, most moldic/oolitic, f to co-gr ooids, firm, fossils, NS

MS-WS, crm to brn, some mic-xln, dense, massive, fossilif pcs, carrying oolitic WS w/ dark ringed and fn-gr ooids in chalky to tite matrx, glauc/minerals, scatt Chert, brn

SH, blk, gray, green

MS, crm to brn, f-xln to massive, dense, sub oolitic pcs, scatt fossils, NS, rare Chert, wht, fossils

MS-WS, crm to tan, f-xln, some brn, mic-xln, chalky to dense, fossils(crinoids, brachs, ooids), some pcs oolitic, m-gr, firm, dull fluor, NS, Chert, opaque, fossils, glauc

SH, blk, gray

Scatt SH, gray, silty

MS, crm to tan, f-xln, some dense, fossils, scatt oolitic pcs in tite calcite matrix, Chert, white

MS, tan to crm, f-xln, dense, hard, sub oolitic to massive (featureless), some gray gritty pcs

MS, off white to crm, rare gray, silty MS, some pcs chalky, most dense, sub oolitic pcs scatt, hard, dull fluor, NS, Chert, tan

MS-WS, crm to tan, lt. gray, f to m-xln, gritty txt in part, some pcs oolitic,fossils, Chert, brn
SH, dk. gray to grat, sandy

SH, gray, WS, crm to gray, gritty, f-xln, firm to hard, scatt fossils, NS

MS, gray to crm, f-xln to chalky, suboolitic, dull fluor, NS, Chert, wht, brn, fossilif., SH, gray, limey

MS, gray to crm, mic-xln, dense, gritty looking, rare oolites in tite calcite mtrx, Chert, wht,
SH, gray, gritty/silty

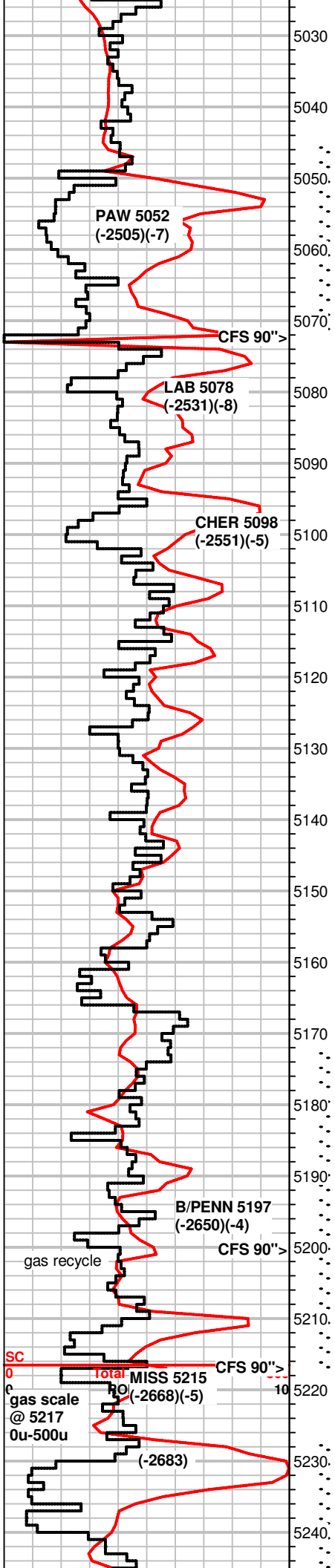
MS, crm to tan, scatt gray pcs, chalky to silty txt, soft, friable pcs, rare dense fossilif pcs, rare gluac
scatt SH, grays

SH, dk. gray, MS, crm to brn, mic to f-xln, denes to friable, scatt fossils, sub oolitic pcs scatt, NS

MS-WS, tan to brn, crm, f-xln, dense, pcs A.A., some gray, m-xln, gritty txt, hard, dull fluor, NS, sctt SH, gray

SH, grays, some pcs limey, silty
MS-WS, crm to brn, f-xln, sub oolitic, fossilif., scatt glauc/minerals,

**DST #1 5045-5072**
**Pawnee**
**30-60-45-90**
**SB BOB/2min**
**NBB**
**SB BOB/3min**
**WBB surf blow**
**640' GIP**
**Rec:288' Fluid-**
**226' GOWCM**
**(30g,10o,20w,40m)**
**62' MCW (5m,95w)**
**IH 2641#**
**IF 70-113#**




NS, Chert, opaque, tan, fossils

MS-WS, crm to tan, f- to mic-xln, dense to firm, sli. chalky pcs, sub oolitic in part, some pcs w/fossil frgmts, Chert, opaque
rare SH, gray

MS, off white to crm, some lt. tan, chalky to f-xln, sub oolitic, mostly firable, some pcs dense, fossils scatt,
SH, green, rare blk, gray, pyrite

MS-WS, crm to off wht, chalky to f-xln, suboolitic, fossils/bioclastic in part, some pcs dense, ***rare very spty bright fluor, 1 pc inst. cut, good odor in bag, rare spotty stn in dry,*** chert, wht, tan

WS-PS, tan to crm, f to mic-xln, dense oolitic in tite calcite mtrx, ***fair odor in bag, rare very spty bright fluor, no cut***

SH, rare blk, gray, green, pyrite, some washed red?

MS-WS, crm to brn, mic to f-xln, some pcs chalky, scatt fossilif. pcs, sub oolitic in part, dense, some friable, pyrite, dull fluor, NS

MS-WS, vf-xln,gritty txt, fossil frgmts, sub oolitic, m-gr ooids, dense, NS, Chert, opaque, tan, fossils

SH, blk, gas bubbles, gray, scatt green
MS-WS, crm to gray, f-xln to earthy, some massive, dense, fossils (crinoids,brachs,ooids), calcite/glauc, Chert, bone wht to opaque, brn

MS, tan to crm, f-xln to massive, dense, fossil/oolitic in part, m-gr ooids in tite mtrx, Chert, wht

SH's, dk.gry to blk, carb
MS, crm to gray, f-xln, firm to hard, semopcs dense, fossils, dull fluor, NS, scatt Chert, wht, fossils

SH, blk, gray
WS-MS, crm to brn, f-xln, firm to hard, mottled, brn oolitic pcs, some suboolitic/fossilif., most pcs dense, cherty in part, scatt

SH, blk, gray, MS, crm to tan, f-xln to massive, rare fossils, firm to friable, mineral fluor, NS, Chert, wht fossils

SH, blk, gray, carb. flakes, pyrite
MS, crm to brn, some gray, mottled, f-xln, chalky to dense, fossils, Chert frgmts, sub oolitic, shalky in part

Inc, SH, gray, blk, limey pcs, fossils
MS-WS, crm to gray, f-xln, dense, scatt fossils, tite, some pcs sucrosic, dolomitic

SH, blk, green
MS-WS, crm to gray, f-xln, hard/dense, sub oolitic, fossils, pyrite, Chert, wht, opaque

MS, crm to tan, f- to mic-xln, massive to sli. chalky txt, some firm, most pcs dense, scatt fossils, ***v. rare spotty bright fluor, 1 pc w/ milky cut***

SH, gray, blk, green, sandy in part
MS, crm to brn, f-xln, dense, friable, fossilif. gritty txt, scatt mineral specs, ***scatt bright fluor, inst. cut(10/12pcs), faint odor,*** Chert, wht, gray, brn

SH, sea green, mustard yellow, blk, gray

SH, varicolored, striated, sandy pcs
scatt Chert, wht, blk, opaque, rare SS clusters, green, f-gr Chert, bone wht, grn, brn, blk, fossils, calcareous pcs, ***faint odor in bag, dull mineral fluor, 1 pc w/ streaming cut, rare stn dry***

MS-WS, off white to crm, f-xln, dense, oolitic/fossilif, dull fluor, NS

MS-WS, off wht to crm, f-xln, dense, oolitic(m-gr) to sub oolitic, tite, rare Dolo, gray, vf-xln, hard, dull fluor, NS

Dolo, gray to crm, f-xln, massive to sugary txt, soft to firm, scatt f-gr oolitic pcs, dark ooids, ***good odor in bag, min. to bright flour, streaming cut from sel. pcs, some w/ resid. ring cut, spty to even stn, bleeding oil, rare live oil in tray***

**ISIP 982#**
**FF 69-130#**
**FSIP 970#**
**FH 2641#**
**Temp 115*F**
**API RW .12 @ 83*F**
**Cl 58,000ppm**

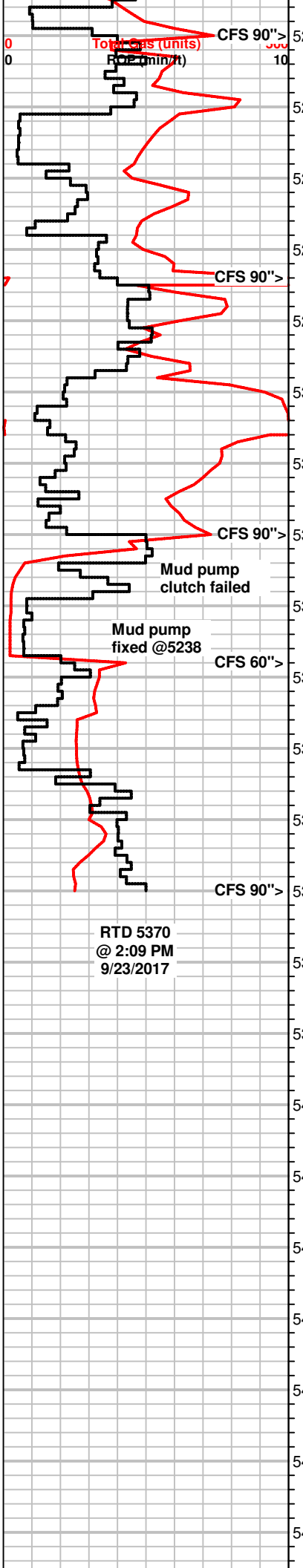
**+120 UGK, +90 UGK recycle**

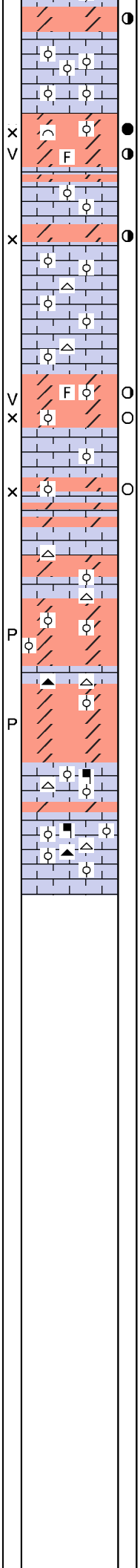
**DST #2 5172-5217**
**B/Penn Morrow**
**SB BOB/1min**
**NBB**
**SB BOB/immed,**
**GTS/30sec GA 1/4in Ch.**
**38.708 MCF/10min**
**49.813 MCF/20min**
**54.572 MCF/30min**
**59.331 MCF/40min**
**62.504 MCF/50min**
**65.677 MCF/60min**
**NBB**
**5149' GIP**
**Rec: 20' SGCM(2g,98m)**
**IH 2708#**
**IF 45-33#**
**ISIP 1280#**
**FF 21-42#**
**FSIP 1281#**
**FH 2538#**
**Temp 117*F**

**+50 UGK, +30 UGK recycle**

**+90 UGK, +30 UGK recycle**

**+350 UGK, + 215 UGK recycle**




Dolo, crm to gray, f-xln, gritty to sugary txt, scatt fossils(carrying?), ***fair odor, bleeding oil, inst cut few pcs***

WS-PS, crm to off wht, f-xln, m-gr oolitic, scatt fossils, hard to dense, some pcs brittle, dull fluor, NS

Dolo, crm to brn, f to m-xln, scatt sucrosic pcs, fossilif. to oolitic pcs, firm to friable, ***fair odor, bleeding oil/gas bubbles, live oil in tray, partial to sat. stn, stream to milky cut,*** int. xln to vuggy por.

WS-PS, crm to off wht, f-xln, tite, oolitic, NS

Dolo, crm to brn, f-xln, vf sucrosic to fn gr-gritty txt, ***spotty to even stn, live oil, fair odor, inst. cut,*** int-xln por.

MS-PS, off wht to crm, mic-xln, massive to earthy pcs, m-gr oolitc, fossils lesser towards base glauc specs, dull fluor, NS

Dolo, tan to brn, f-xln, earthy to oolitic, m-gr pcs, limey in part, ***rare bright fluor, slow milky cut, rare inst. cut, spotty stn, no odor, sat. dry,***

MS-WS, crm to tan, f-xln, sub oolitic to earthy, dull fluor, NS

Scatt Dolo, tan to brn, f-xln, oolitic, firm to brittle, ***rare bright fluor, no odor, no stn, resid. ring cut***, limey in part

MS-WS, crm to brn, f-xln, suboolitic, firm to hard

Dolo, brn to gray, f-xln, f-sucrosic txt, firm to hard, some pcs scatt oolitic-dec. amt, some mineral specs, NS

Dolo, lt. gray to f-xln, gritty to vf-sucrosic txt, tite, dull fluor, NS, PP por.
MS-WS, gray to brn, f-xln to m-xln, mottled, some mineral specs, oolitic in part, some pcs dolomitic, NS, Chert, wht

Dolo, gray to lt. tan, f-xln, gritty txt, vf-sucrosic, firm to hard, dull fluor, NS, PP por.

MS-WS, gray to tan, mottled, f-xln, oolitic to fossilif., Chert, wht

Dolo, gray to lt. tan, f-xln to vf-sucrosic, tite, dull fluor, NS

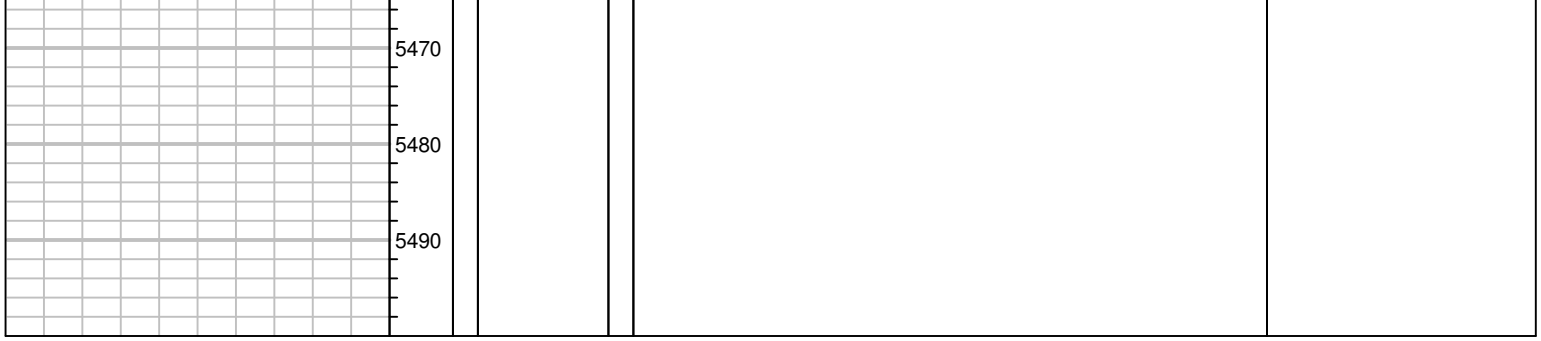
MS-WS, scatt PS, crm to tan, some brn, f-xln to mic-xln, dense, massive to fossilif/oolitic pcs, dark minerals/ooids, dull fluor, NS

**+215 UGK, +100 UGK recycle**

**DST #3 5227-5250**
**MISS**
**30-60-60-120**
**SB BOB/10sec**
**NBB**
**SB BOB/immed GTS/1min**
**GA 1/8in Ch**
**6.513 MCF/10min**
**6.887 MCF/20min**
**7.635 MCF/30min**
**8.010 MCF/40min**
**8.758 MCF/50min**
**9.133 MCF/60min**
**5153' GIP**
**Rec: 80' OCM(20o,80m)**
**IH 2640#**
**IF 26-23#**
**ISIP 968#**
**FF 23-47#**
**FSIP 965#**
**FH 2699#**
**Temp 114*F**

**DST #4 5258-5284**
**MISS**
**30-60-60-120**
**FB BOB/min**
**NBB**
**SB BOB/1min**
**NBB**
**3934' GIP**
**Rec: 90' GOCM (20g,20o,80m)**
**IH 2674#**
**IF 19-29#**
**ISIP 1285#**
**FF 33-55#**
**FSIP 1286#**
**FH 2531#**
**Temp 116*F**

**DST #5 5294-5320**
**MISS**
**30-60-60-120**
**WB/blt to 1.5 in**
**NBB**
**WB/1 in**
**NBB**
**Rec: 80' WCM (30w,70m)**
**IH 2720#**
**IF 20-41#**
**ISIP 1404#**
**FF 43-62#**
**FSIP 1376#**
**FH 2566#**
**Temp 117*F**
**API Rw .15 @ 63*F**
**Cl 58,000ppm**


5470
5480
5490