



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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

| | | |
|-----------------------------------|-----------------|---|
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |
|-----------------------------------|-----------------|---|

API No. 15 - _____

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1096342

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

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

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

| | |
|---|---|
| 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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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 |
| _____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone | | | | |
| | | | | |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|-------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

| | | | | | |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| 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> <input type="checkbox"/> Other <i>(Specify)</i> _____ | PRODUCTION INTERVAL: _____ _____ |
|--|---|---|

| | |
|-----------|--------------------------|
| Form | ACO1 - Well Completion |
| Operator | H & C Oil Operating Inc. |
| Well Name | Herl 27-1 |
| Doc ID | 1096342 |

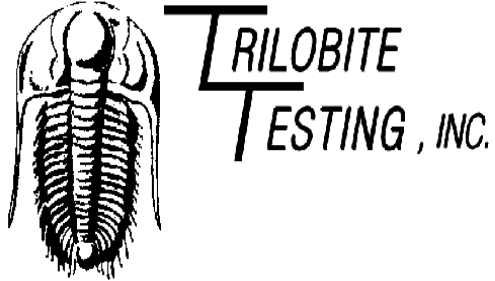
All Electric Logs Run

| |
|----------------------------|
| |
| Microresistivity |
| Dual Compensated Porosity |
| Borehole Compensated Sonic |
| Dual Induction |
| Sonic Cement Bond Log |

| | |
|-----------|--------------------------|
| Form | ACO1 - Well Completion |
| Operator | H & C Oil Operating Inc. |
| Well Name | Herl 27-1 |
| Doc ID | 1096342 |

Tops

| Name | Top | Datum |
|--------------------|------|-------|
| Top Anhydrite | 1904 | +499 |
| Base Anhydrite | 1945 | +458 |
| Heebner | 3645 | -1242 |
| Lansing | 3685 | -1282 |
| Stark | 3908 | -1505 |
| BKC | 3958 | -1555 |
| Pawnee | 4104 | -1701 |
| Fort Scott | 4164 | -1761 |
| Cherokee Shale | 4188 | -1785 |
| Mississippi/Warsaw | 4266 | -1863 |



DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating**

PO Box 86
Plainville, KS 67663

ATTN: Marc Downing

Herl #27-1

27-13s-26w Gove,KS

Start Date: 2012.03.25 @ 00:58:18

End Date: 2012.03.25 @ 06:21:27

Job Ticket #: 45037 DST #: 1

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

Printed: 2012.03.30 @ 09:33:15



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating

27-13s-26w Gove, KS

PO Box 86
Plainville, KS 67663

Herl #27-1

Job Ticket: 45037

DST#: 1

ATTN: Marc Downing

Test Start: 2012.03.25 @ 00:58:18

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:46:28

Time Test Ended: 06:21:27

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 60

Interval: 3881.00 ft (KB) To 3908.00 ft (KB) (TVD)

Reference Elevations: 2402.00 ft (KB)

Total Depth: 3908.00 ft (KB) (TVD)

2395.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8373

Inside

Press @ Run Depth: 14.95 psig @ 3882.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.25

End Date:

2012.03.25

Last Calib.:

2012.03.25

Start Time: 00:58:18

End Time:

06:21:27

Time On Btm:

2012.03.25 @ 02:44:43

Time Off Btm:

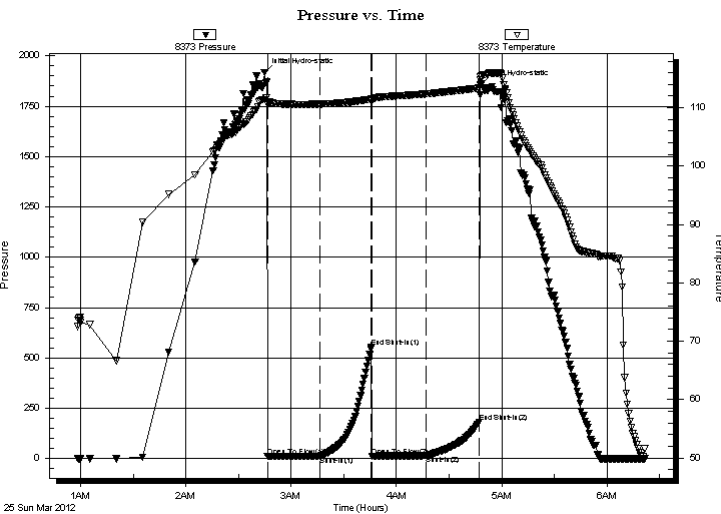
2012.03.25 @ 04:47:58

TEST COMMENT: IF: Surface blow built to 1/2"

IS: No return.

FF: Surface blow built to 1"

FS: No return.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1917.89 | 111.42 | Initial Hydro-static |
| 2 | 10.00 | 110.64 | Open To Flow (1) |
| 32 | 12.26 | 110.63 | Shut-In(1) |
| 61 | 551.97 | 111.49 | End Shut-In(1) |
| 62 | 12.10 | 111.23 | Open To Flow (2) |
| 93 | 14.95 | 112.37 | Shut-In(2) |
| 123 | 181.27 | 113.37 | End Shut-In(2) |
| 124 | 1856.19 | 115.29 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------|--------------|
| 5.00 | mco 60%o 40%m | 0.02 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating

27-13s-26w Gove,KS

PO Box 86
Plainville, KS 67663

Herl #27-1

Job Ticket: 45037

DST#: 1

ATTN: Marc Downing

Test Start: 2012.03.25 @ 00:58:18

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3854.00 ft | Diameter: 3.80 inches | Volume: 54.06 bbl | Tool Weight: 1500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 31.00 ft | Diameter: 2.25 inches | Volume: 0.15 bbl | Weight to Pull Loose: 75000.00 lb |
| | | | <u>Total Volume: 54.21 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 24.00 ft | | | String Weight: Initial 60000.00 lb |
| Depth to Top Packer: | 3881.00 ft | | | Final 60000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 27.00 ft | | | |
| Tool Length: | 47.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

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

| | | | | | |
|---------------------------|--------------|------|---------|---------|-------------------------------|
| Stubb | 1.00 | | | 3862.00 | |
| Shut In Tool | 5.00 | | | 3867.00 | |
| Hydraulic tool | 5.00 | | | 3872.00 | |
| Packer | 5.00 | | | 3877.00 | 20.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3881.00 | |
| Stubb | 1.00 | | | 3882.00 | |
| Recorder | 0.00 | 8373 | Inside | 3882.00 | |
| Recorder | 0.00 | 8356 | Outside | 3882.00 | |
| Perforations | 21.00 | | | 3903.00 | |
| Bullnose | 5.00 | | | 3908.00 | 27.00 Bottom Packers & Anchor |
| Total Tool Length: | 47.00 | | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating

27-13s-26w Gove,KS

PO Box 86
Plainville, KS 67663

Herl #27-1

Job Ticket: 45037

DST#: 1

ATTN: Marc Downing

Test Start: 2012.03.25 @ 00:58:18

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbf |
|--------------|---------------|---------------|
| 5.00 | mco 60%o 40%m | 0.025 |

Total Length: 5.00 ft Total Volume: 0.025 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

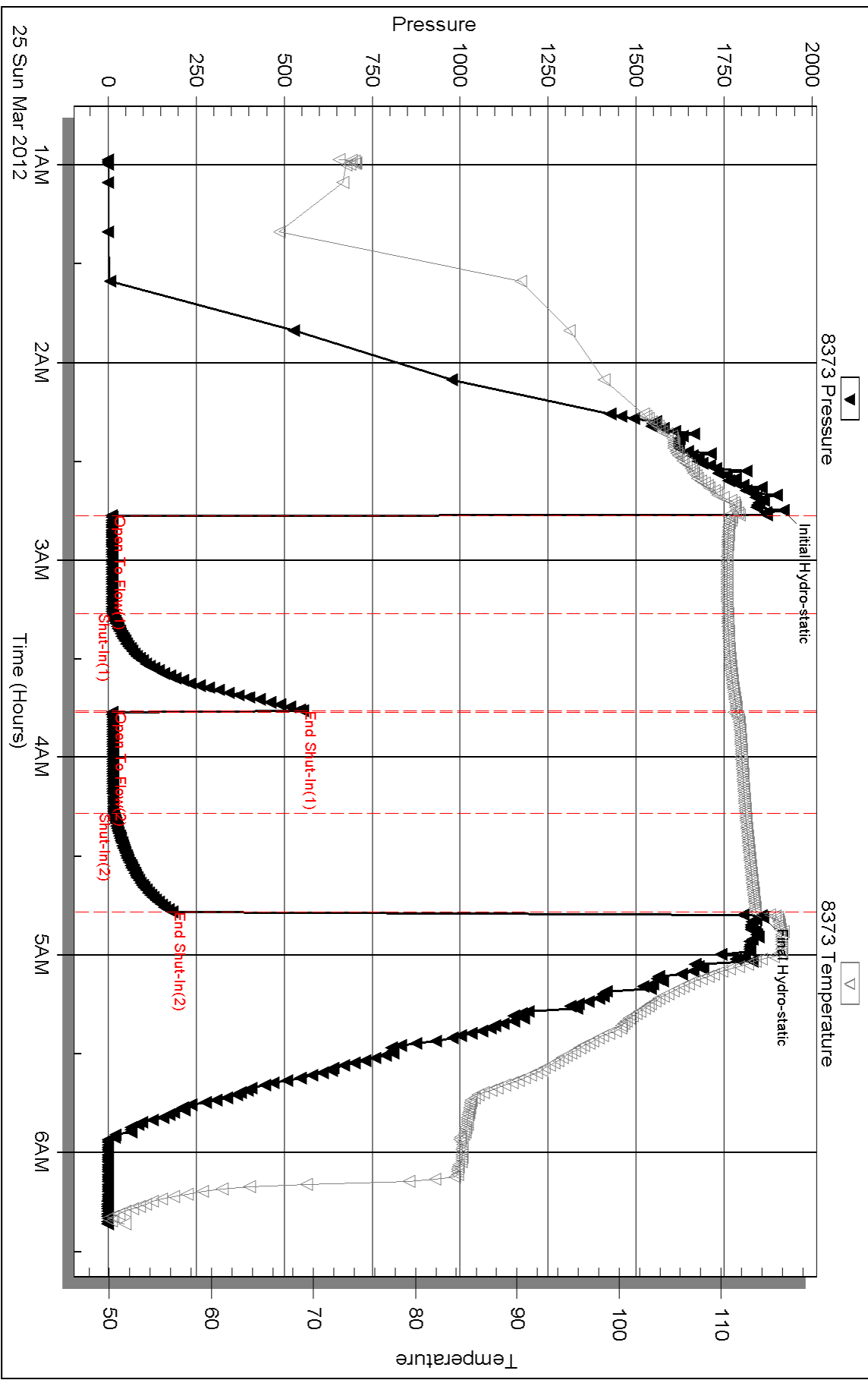
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

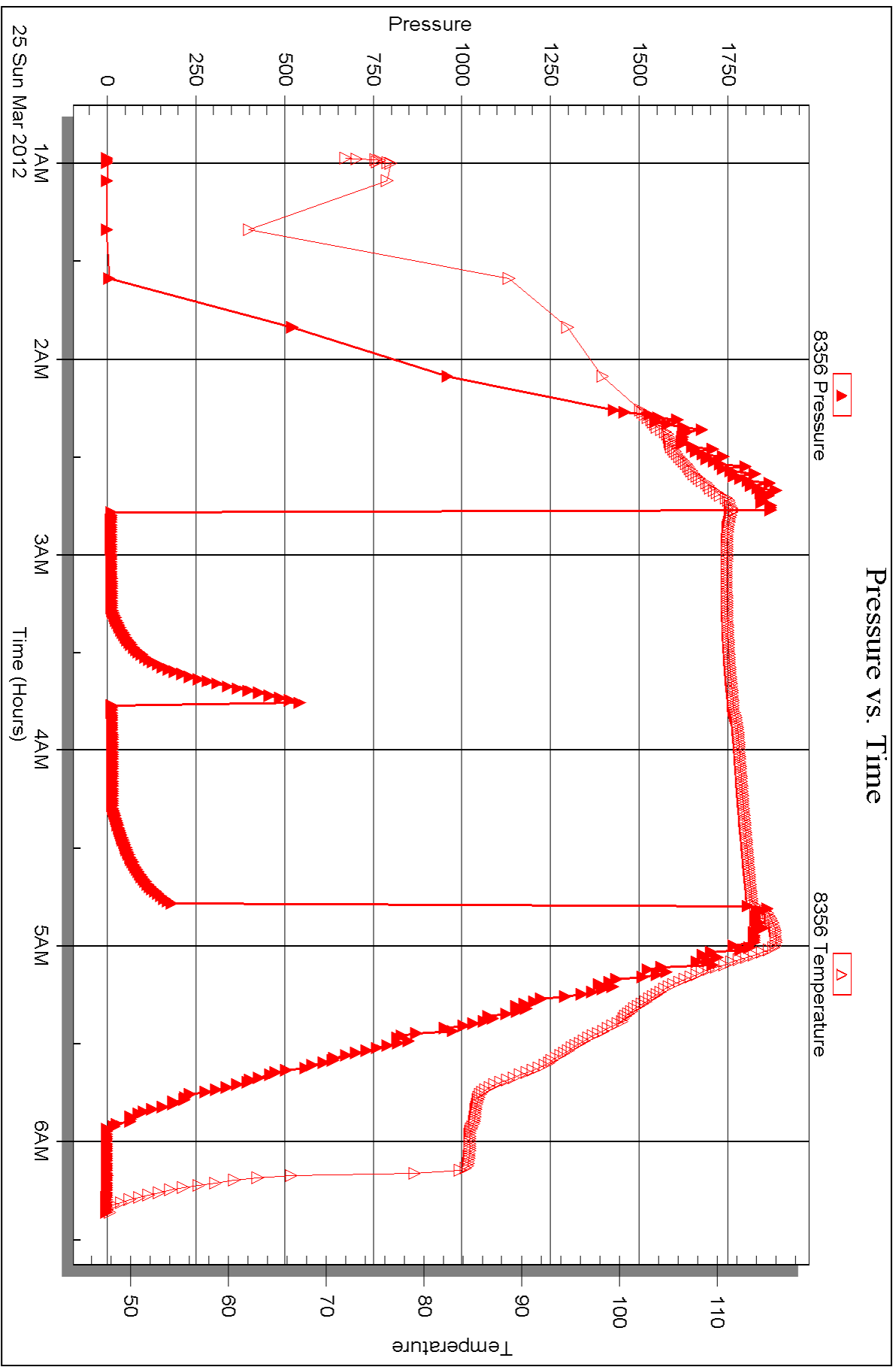


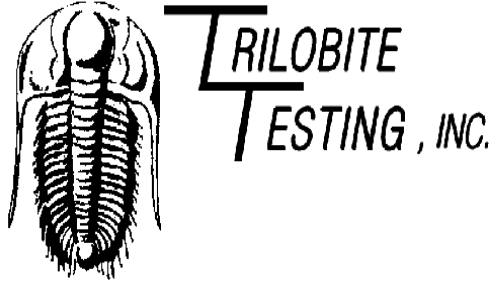
Serial #: 8356

Outside H&C Oil Operating

Herl #27-1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating**

PO Box 86
Plainville, KS 67663

ATTN: Marc Downing

Herl #27-1

27-13s-26w Gove,KS

Start Date: 2012.03.25 @ 12:55:00

End Date: 2012.03.25 @ 18:05:09

Job Ticket #: 45038 DST #: 2

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

Printed: 2012.03.30 @ 09:31:36



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating

27-13s-26w Gove,KS

PO Box 86
Plainville, KS 67663

Herl #27-1

ATTN: Marc Downing

Job Ticket: 45038

DST#: 2

Test Start: 2012.03.25 @ 12:55:00

GENERAL INFORMATION:

Formation: **LKC- K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:12:10
 Time Test Ended: 18:05:09
 Interval: **3904.00 ft (KB) To 3930.00 ft (KB) (TVD)**
 Total Depth: 3930.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 60
 Reference Elevations: 2402.00 ft (KB)
 2395.00 ft (CF)
 KB to GR/CF: 7.00 ft

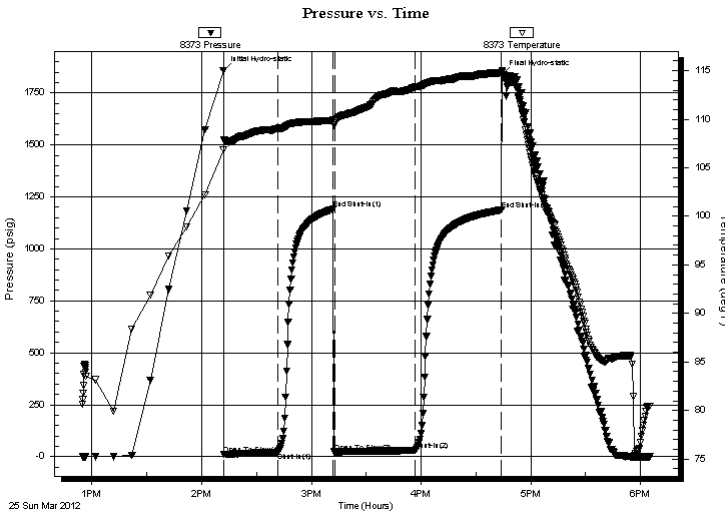
Serial #: 8373

Inside

Press @ Run Depth: 29.85 psig @ 3905.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.03.25 End Date: 2012.03.25 Last Calib.: 2012.03.25
 Start Time: 12:55:00 End Time: 18:05:09 Time On Btm: 2012.03.25 @ 14:11:55
 Time Off Btm: 2012.03.25 @ 16:44:10

TEST COMMENT: IF: Surface blow built to 1.
 IS: No return.
 FF: Surface blow built to 2 1/2.
 FS: No return.

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1858.54 | 106.86 | Initial Hydro-static |
| 1 | 12.31 | 107.90 | Open To Flow (1) |
| 30 | 21.82 | 109.06 | Shut-In(1) |
| 60 | 1190.64 | 109.89 | End Shut-In(1) |
| 61 | 23.31 | 109.42 | Open To Flow (2) |
| 105 | 29.85 | 113.30 | Shut-In(2) |
| 152 | 1187.01 | 114.80 | End Shut-In(2) |
| 153 | 1838.76 | 115.03 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------|--------------|
| 40.00 | ocm 10%o 90%m | 0.28 |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating

27-13s-26w Gove, KS

PO Box 86
Plainville, KS 67663

Herl #27-1

Job Ticket: 45038

DST#: 2

ATTN: Marc Downing

Test Start: 2012.03.25 @ 12:55:00

GENERAL INFORMATION:

Formation: **LKC- K**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 14:12:10
 Tester: Brandon Turley
 Time Test Ended: 18:05:09
 Unit No: 60
Interval: 3904.00 ft (KB) To 3930.00 ft (KB) (TVD)
 Reference Elevations: 2402.00 ft (KB)
 Total Depth: 3930.00 ft (KB) (TVD)
 2395.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 7.00 ft

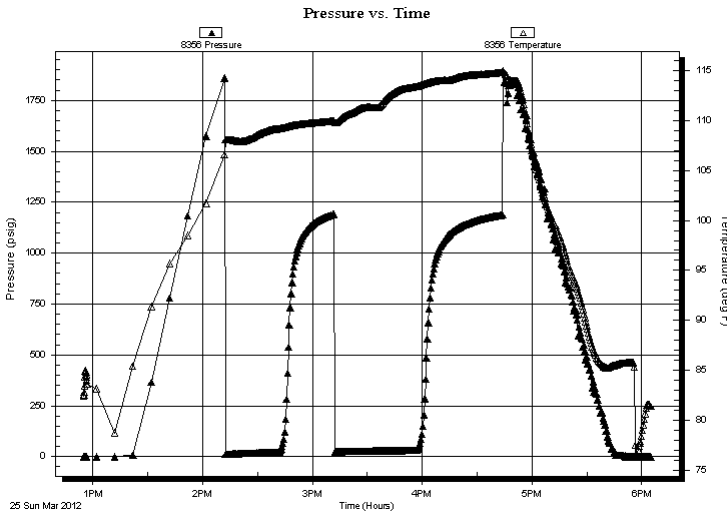
Serial #: 8356

Outside

Press @ Run Depth: psig @ 3905.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.03.25 End Date: 2012.03.25 Last Calib.: 2012.03.25
 Start Time: 12:54:55 End Time: 18:05:04 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Surface blow built to 1.
 IS: No return.
 FF: Surface blow built to 2 1/2.
 FS: No return.

PRESSURE SUMMARY



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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------|--------------|
| 40.00 | ocm 10%o 90%m | 0.28 |
| | | |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating

27-13s-26w Gove,KS

PO Box 86
Plainville, KS 67663

Herl #27-1

Job Ticket: 45038

DST#: 2

ATTN: Marc Downing

Test Start: 2012.03.25 @ 12:55:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3858.00 ft | Diameter: 3.80 inches | Volume: 54.12 bbl | Tool Weight: 1500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 31.00 ft | Diameter: 2.25 inches | Volume: 0.15 bbl | Weight to Pull Loose: 80000.00 lb |
| | | | <u>Total Volume: 54.27 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 5.00 ft | | | String Weight: Initial 60000.00 lb |
| Depth to Top Packer: | 3904.00 ft | | | Final 60000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 26.00 ft | | | |
| Tool Length: | 46.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| Stubb | 1.00 | | | 3885.00 | |
| Shut In Tool | 5.00 | | | 3890.00 | |
| Hydraulic tool | 5.00 | | | 3895.00 | |
| Packer | 5.00 | | | 3900.00 | 20.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3904.00 | |
| Stubb | 1.00 | | | 3905.00 | |
| Recorder | 0.00 | 8373 | Inside | 3905.00 | |
| Recorder | 0.00 | 8356 | Outside | 3905.00 | |
| Perforations | 20.00 | | | 3925.00 | |
| Bullnose | 5.00 | | | 3930.00 | 26.00 Bottom Packers & Anchor |
| Total Tool Length: | 46.00 | | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating

27-13s-26w Gove,KS

PO Box 86
Plainville, KS 67663

Herl #27-1

Job Ticket: 45038

DST#: 2

ATTN: Marc Downing

Test Start: 2012.03.25 @ 12:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------|---------------|
| 40.00 | ocm 10%o 90%m | 0.279 |

Total Length: 40.00 ft Total Volume: 0.279 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

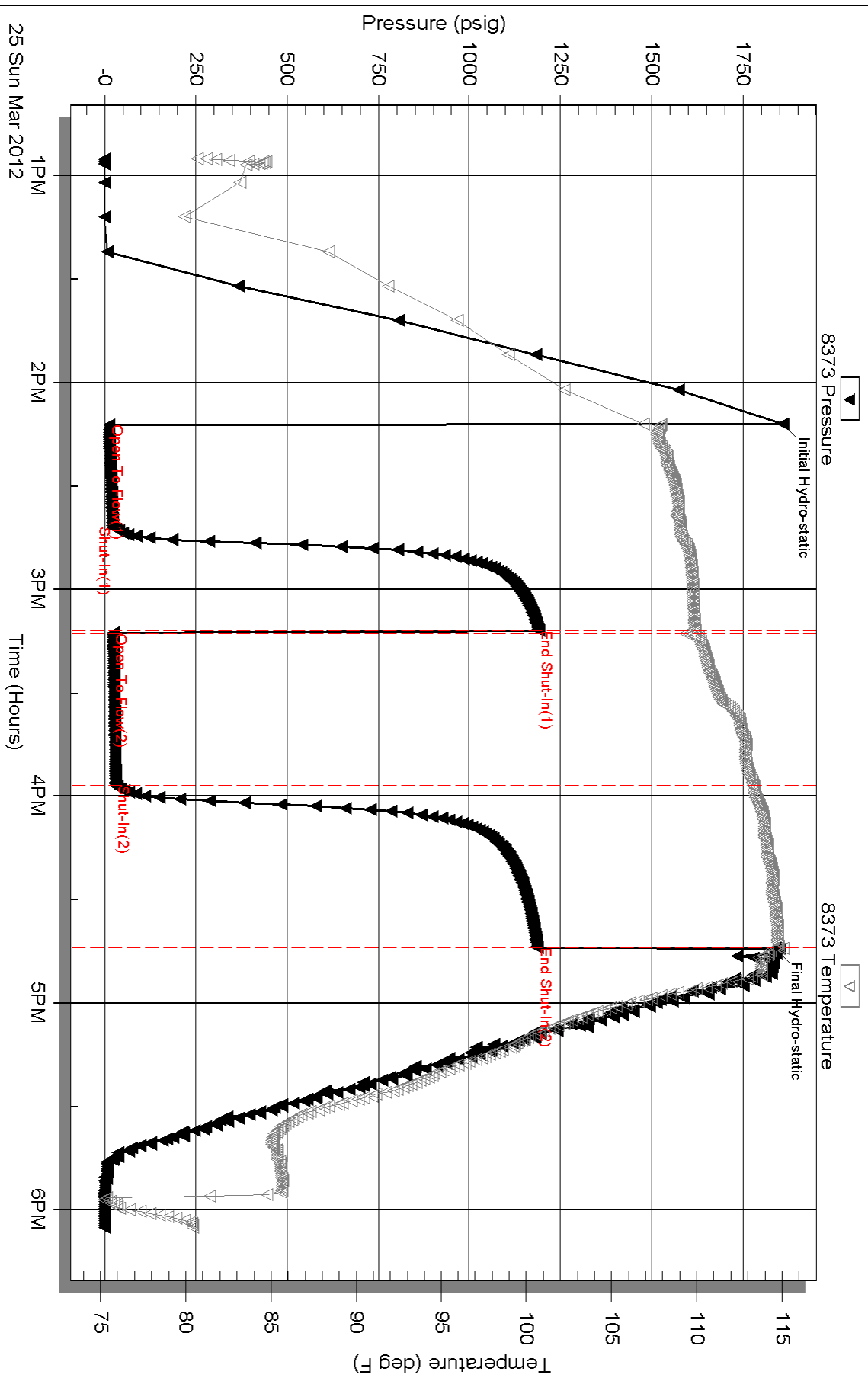
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

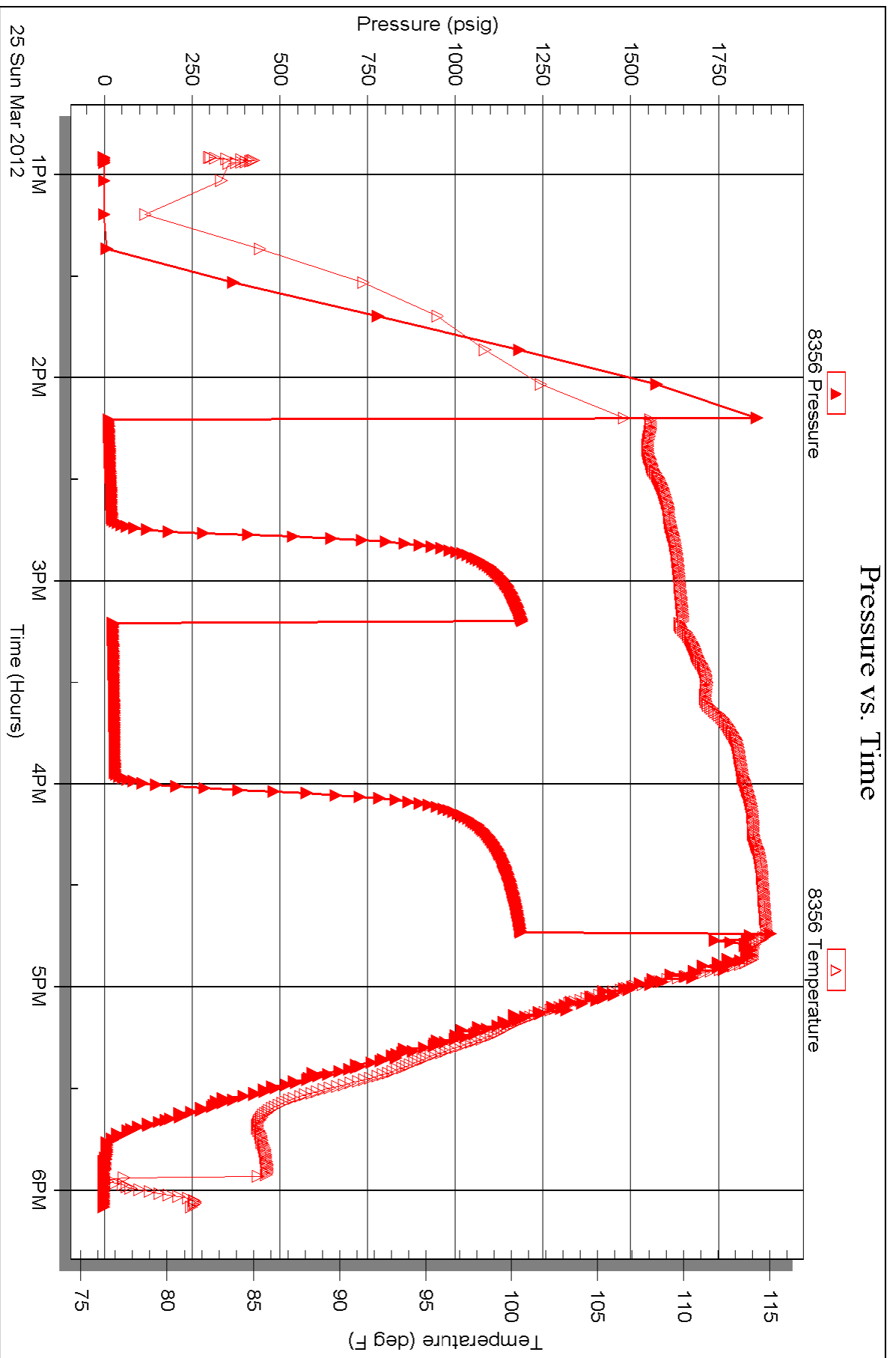


Serial #: 8356

Outside H&C Oil Operating

Herl #27-1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 45038

Printed: 2012.03.30 @ 09:31:39



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAR 28 2012

Test Ticket

NO. 45037

BY: _____

Well Name & No. Hep1 27-1 Test No. 1 Date 3-24-12
 Company HDC oil operations Elevation 2402 KB 2395 GL
 Address P.O. Box 86 Plainville, KS 67663
 Co. Rep / Geo. Marl Rig Diso #1
 Location: Sec. 27 Twp. 13 Rge. 26 Co. Gove State KS

Interval Tested 3881 3908 Zone Tested LKC J
 Anchor Length 27 Drill Pipe Run 3854 Mud Wt. 8.9
 Top Packer Depth 3876 Drill Collars Run 31 Vis 61
 Bottom Packer Depth 3881 Wt. Pipe Run — WL 7.6
 Total Depth 3908 Chlorides 800 ppm System LCM 2 1/2

Blow Description IF: surface blow built to 1/2.
IS: NO return
IF: Surface blow built to 1,
FS: NO return,

| Rec | Feet of | %gas | %oil | %water | %mud |
|----------|------------|-----------|------|-----------|------|
| <u>5</u> | <u>MCO</u> | <u>60</u> | | <u>40</u> | |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 5 BHT 110 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1917 Test 1125' T-On Location 23:45
 (B) First Initial Flow 10 Jars _____ T-Started 00:58
 (C) First Final Flow 12 Safety Joint _____ T-Open 2:47
 (D) Initial Shut-In 551 Circ Sub NIL T-Pulled 4:47
 (E) Second Initial Flow 12 Hourly Standby _____ T-Out 6:25
 (F) Second Final Flow 14 Mileage 136 RT 190.40 Comments _____
 (G) Final Shut-In 181 Sampler _____
 (H) Final Hydrostatic 1856 Straddle _____

Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 30 Extra Packer _____ Ruined Packer _____
 Final Flow 30 Extra Recorder _____ Sub Total 0
 Final Shut-In 30 Day Standby _____ Total 1315.40
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1315.40

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVE Test Ticket

MAR 23 2012

NO. 45038

4/10

BY: _____

Well Name & No. Herl 27-1 Test No. 2 Date 3-25-12
 Company HGC oil operating Elevation 2402 KB 2395 GL _____
 Address _____
 Co. Rep / Geo. Marc Downing Rig Discovery #1
 Location: Sec. 27 Twp. 13 Rge. 26 Co. Gove State KS

Interval Tested 3904 3930 Zone Tested LKC - K
 Anchor Length 26 Drill Pipe Run 3858 Mud Wt. 9.0
 Top Packer Depth 3899 Drill Collars Run 31 Vis 53
 Bottom Packer Depth 3904 Wt. Pipe Run — WL 8.0
 Total Depth 3930 Chlorides 1500 ppm System LCM 2

Blow Description FF; Surface blow built to 1.
IS; No return.
FF; Surface blow built to 2 1/2.
FS; No return.

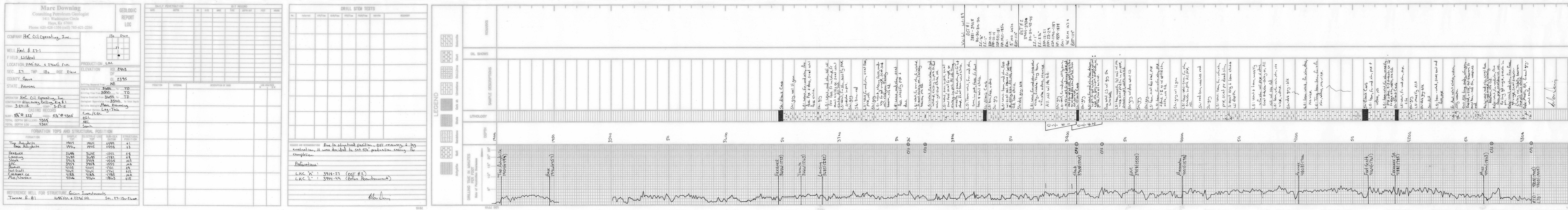
| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|------------|-----------|------|-----------|------|
| <u>40</u> | <u>0cm</u> | <u>10</u> | | <u>90</u> | |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 40 BHT 114 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 1858 Test 1125' T-On Location 12:30
 (B) First Initial Flow 12 Jars _____ T-Started 12:54
 (C) First Final Flow 21 Safety Joint _____ T-Open 14:11
 (D) Initial Shut-In 1190 Circ Sub N/C T-Pulled 16:41
 (E) Second Initial Flow 23 Hourly Standby _____ T-Out 18:05
 (F) Second Final Flow 29 Mileage 130 RT x 2, 380.80 Comments 10 added 1:20 PM
 (G) Final Shut-In 1187 Sampler _____ 3-27-12
 (H) Final Hydrostatic 1838 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 800
 Day Standby 1 day & 19 1/4 hrs Total 2305.80
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1505.80

Approved By _____ Our Representative [Signature]

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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. 481

| | | | | | | | | |
|-----------------------------------|------------------------|-------------------------|-------|--|-------|--------|-------------|----------|
| Date | 3-27-12 | 27 | 13 | 26 | Grave | Kansas | On Location | 11:45 AM |
| Lease | Herl | Well No. 27-1 | | Location F-70 1 Collier Rd 8 1/2 S 4 1/4 W Suite | | | | |
| Contractor | Discovery Drilling Rig | | | | | | | |
| Type Job | Long Strike | | | | | | | |
| Hole Size | 7 7/8 | T.D. 4308 | | | | | | |
| Csg. Size | 5 1/2 1416 | Depth 4305 | | | | | | |
| Tbg. Size | Depth | | | | | | | |
| Tool | Pact Collar #59 | Depth 1914 | | | | | | |
| Cement Left in Csg. | 35.81 | Shoe Joint 35.81 | | | | | | |
| Meas Line | | Displace 104 1/2 (Bbl) | | | | | | |
| EQUIPMENT | | | | | | | | |
| Pumptrk | 15 | No. Cementer | Steve | | | | | |
| Bulktrk | 14 | No. Helper | Rick | | | | | |
| Bulktrk | 14 | No. Driver | Rick | | | | | |
| Bulktrk | | No. Driver | Nick | | | | | |
| Bulktrk | | No. Driver | Nick | | | | | |
| JOB SERVICES & REMARKS | | | | | | | | |
| Remarks: | | | | | | | | |
| Rat Hole | 30 | sx | | | | | | |
| Mouse Hole | 15 | sx | | | | | | |
| Centralizers | 4 | 7 | 8 | 10 | 12 | | | |
| Baskets | 1 | 58 | 63 | 80 | | | | |
| DV or Port Collar | #59 | @1914' | | | | | | |
| | | CFL-117 or CD110 CAF 38 | | | | | | |
| | | Sand | | | | | | |
| | | Handling 22.7 | | | | | | |
| | | Mileage | | | | | | |
| | | FLOAT EQUIPMENT | | | | | | |
| | | Guide Shoe | | | | | | |
| | | Centralizer 7 | | | | | | |
| | | Baskets 4 | | | | | | |
| | | AFU Inserts | | | | | | |
| | | Float Shoe 1 | | | | | | |
| | | Latch Down 1 | | | | | | |
| | | Pact Collar | | | | | | |
| | | Pumptrk Charge | | | | | | |
| | | Mileage 47 | | | | | | |
| | | Tax | | | | | | |
| | | Discount | | | | | | |
| | | Total Charge | | | | | | |

X Signature:  Steve

