

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

7/22/12

OPERATOR: License # 8914
Name: H & C Oil Operating, Inc.
Address 1: P.O. Box 86
Address 2:
City: Plainville State: KS Zip: 67663 +
Contact Person: Charles R. Ramsay
Phone: (785) 434-7434
CONTRACTOR: License # 33493
Name: American Eagle Drilling, LLC
Wellsite Geologist: Marc Downing
Purchaser:

KCC

JUL 22 2010

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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 #:

6/18/10	6/25/10	6/25/10
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 065-23649-00-00
Spot Description:
S2 N2 NW NW Sec. 27 Twp. 6 S. R. 23 East West
500 Feet from North / South Line of Section
660 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Graham
Lease Name: Legere Well #: 27-1
Field Name: Wildcat
Producing Formation: none
Elevation: Ground: 2416 Kelly Bushing: 2421
Total Depth: 3896 Plug Back Total Depth: 21,094
Amount of Surface Pipe Set and Cemented at: 264 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 #:

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Charles R. Ramsey
Title: President Date: 7-22-10

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: 7/22/10 - 7/22/12
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: MB Date: 7-29-10

RECEIVED

JUL 26 2010

KCC WICHITA

Operator Name: H & C Oil Operating, Inc. Lease Name: Legere Well #: 27-1
 Sec. 27 Twp. 6 S. R. 23 East West County: Graham **JUL 22 2010**

CONFIDENTIAL

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Borehole compensated sonic log, Dual induction log, microresistivity log, dual compensated porosity	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Top Anhydrite</td> <td>2061</td> <td>+360</td> </tr> <tr> <td>Base Anhydrite</td> <td>2095</td> <td>+326</td> </tr> <tr> <td>Topeka</td> <td>3426</td> <td>-1005</td> </tr> <tr> <td>Heebner</td> <td>3626</td> <td>-1205</td> </tr> <tr> <td>Toronto</td> <td>3650</td> <td>-1229</td> </tr> <tr> <td>LKC</td> <td>3667</td> <td>-1246</td> </tr> <tr> <td>BKC</td> <td>3855</td> <td>-1434</td> </tr> </tbody> </table>	Name	Top	Datum	Top Anhydrite	2061	+360	Base Anhydrite	2095	+326	Topeka	3426	-1005	Heebner	3626	-1205	Toronto	3650	-1229	LKC	3667	-1246	BKC	3855	-1434
Name	Top	Datum																							
Top Anhydrite	2061	+360																							
Base Anhydrite	2095	+326																							
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Toronto	3650	-1229																							
LKC	3667	-1246																							
BKC	3855	-1434																							

CASING RECORD <input checked="" 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
surface	12 1/4"	8 5/8"	24#	264	60/40	170	3%CC, 2%GEL

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				

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: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> 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) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

RECEIVED
JUL 25 2010

KCC WICHITA

ALLIED CEMENTING CO., LLC. 041723

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Russell, KS

DATE <u>6/19/10</u>	SEC <u>27</u>	TWP. <u>6</u>	RANGE <u>23 W</u>	CALLED OUT	ON LOCATION	JOB START <u>7:00 AM</u>	JOB FINISH <u>7:30 AM</u>
LEASE <u>Legere</u>	WELL# <u>27-1</u>	LOCATION <u>Hill City, N to Y Rd, 2 1/2 mi. N, KE</u>			COUNTY <u>Graham</u>	STATE <u>KS</u>	
OLD OR <u>(NEW)</u> (Circle one)					Sinto		

CONTRACTOR American Eagle Rig #3

TYPE OF JOB Surface

HOLE SIZE 19 1/4" to 12 1/4" T.D. 264'

CASING SIZE 8 5/8" 24# DEPTH 264'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15'

PERFS. _____

DISPLACEMENT 15 5/4 Bbl.

OWNER _____

CEMENT AMOUNT ORDERED 170 sx 60/40 30% cc 20% gel

COMMON	<u>102</u>	@	<u>13.50</u>	<u>1377.00</u>
POZMIX	<u>68</u>	@	<u>7.55</u>	<u>513.40</u>
GEL	<u>3</u>	@	<u>20.25</u>	<u>60.75</u>
CHLORIDE	<u>5</u>	@	<u>51.50</u>	<u>257.50</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>85</u>	@	<u>2.25</u>	<u>191.25</u>
MILEAGE	<u>10/14/10</u>			<u>382.50</u>
TOTAL				<u>2782.40</u>

EQUIPMENT

PUMP TRUCK # 398 CEMENTER Paul Craig

 HELPER Paul

BULK TRUCK # 377 DRIVER Wil (Oakley)

BULK TRUCK # _____ DRIVER _____

REMARKS:
8 5/8" on Bottom, Ed. Circ. Mix 170 sx
Displace, Cement Circulated

Thank You!!

CHARGE TO: H+C Oil Operating, Inc.

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____ 991.00

EXTRA FOOTAGE _____ @ _____

MILEAGE 45 @ 7.00 315.00

MANIFOLD _____ @ _____

_____ @ _____

_____ @ _____

TOTAL 1306.00

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____

SIGNATURE Bradford Fisher

SALES TAX (If Any) _____

TOTAL CHARGES 2782.40

DISCOUNT IF PAID IN 30 DAYS

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JUL 26 2010
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ALLIED CEMENTING CO., LLC. 041641

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Russell KS

DATE <u>6-25-10</u>	SEC. <u>27</u>	TWP. <u>6</u>	RANGE <u>23</u>	CALLED OUT	ON LOCATION	JOB START <u>9:00 pm</u>	JOB FINISH <u>9:45 pm</u>
LEASER <u>Legere LEASE</u>		WELL # <u>27-1</u>		LOCATION <u>Hill City KS North to Y Rd West</u>		COUNTY <u>Graham</u>	STATE <u>KS</u>
<input checked="" type="radio"/> OLD <input type="radio"/> NEW (Circle one)				to <u>250 Rd 2 North to AA Rd 1/2 East South into.</u>			

CONTRACTOR American Eagle Rig #3

TYPE OF JOB Rotary Plug

HOLE SIZE 7 1/2 T.D. 3896'

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 xH DEPTH 2080'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

OWNER _____

CEMENT

AMOUNT ORDERED 205 60/40 4% gel 1/4 # Flt

EQUIPMENT

PUMP TRUCK CEMENTER John Roberts

417 HELPER Heath

BULK TRUCK _____

481 DRIVER Glenn

BULK TRUCK _____

_____ DRIVER _____

COMMON	<u>123</u>	@	<u>13.50</u>	<u>1660.50</u>
POZMIX	<u>82</u>	@	<u>7.55</u>	<u>619.10</u>
GEL	<u>7</u>	@	<u>20.25</u>	<u>141.75</u>
CHLORIDE		@		
ASC		@		
Flt Srel	<u>51</u>	@	<u>2.45</u>	<u>124.95</u>
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>102</u>	@	<u>2.25</u>	<u>229.50</u>
MILEAGE	<u>110 1/2 mile</u>			<u>459.00</u>
TOTAL				<u>3234.80</u>

REMARKS:

- 25 sk @ 2080'
- 100 sk @ 1266'
- 40 sk @ 310'
- 10 sk @ 40'
- 30 sk Rathole

CHARGE TO: H&C Oil

STREET _____

CITY _____ STATE _____ ZIP _____

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or

SERVICE

DEPTH OF JOB	_____
PUMP TRUCK CHARGE	<u>990.00</u>
EXTRA FOOTAGE	@ _____
MILEAGE	<u>45</u> @ <u>7.00</u> <u>315.00</u>
MANIFOLD	@ _____
	@ _____
	@ _____
TOTAL <u>1305.00</u>	

PLUG & FLOAT EQUIPMENT

	@ _____
<u>Dry Hole Plug</u>	@ _____ <u>N-C</u>
	@ _____
	@ _____

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KCC WICHITA

until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that CUSTOMER may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the CUSTOMER or at the option of ALLIED, refunded directly to CUSTOMER. For purposes of this paragraph, ALLIED and CUSTOMER agree that Kansas law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

—ATTORNEY FEES: In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.

—PRICES AND TAXES: All merchandise listed in ALLIED'S current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

—TOWING CHARGES: ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.

—PREPARATION CHARGES: If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.

—DEADHAUL CHARGES: Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

—SERVICE CONDITIONS AND LIABILITIES:

1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. CUSTOMER shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.

3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES:

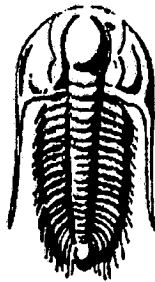
1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE. EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **H & C Oil Operating, Inc.**

P.O. Box 86
Plainville KS
67663

ATTN: Marc Downing

27 6S 23W Graham KS

Legere #27-1

Start Date: 2010.06.23 @ 16:15:05

End Date: 2010.06.23 @ 21:29:29

Job Ticket #: 039151 DST #: 1

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JUL 2 2 2010
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Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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JUL 2 6 2010
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Printed: 2010.07.07 @ 09:12:51 Page 1

ORIGINAL

H & C Oil Operating, Inc.

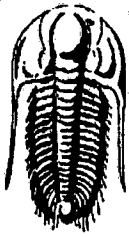
Legere #27-1

27 6S 23W Graham KS

DST # 1

C & D

2010.06.23



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H & C Oil Operating, Inc.

Legere #27-1

P.O. Box 86
Plainville KS
67663
ATTN: Marc Downing

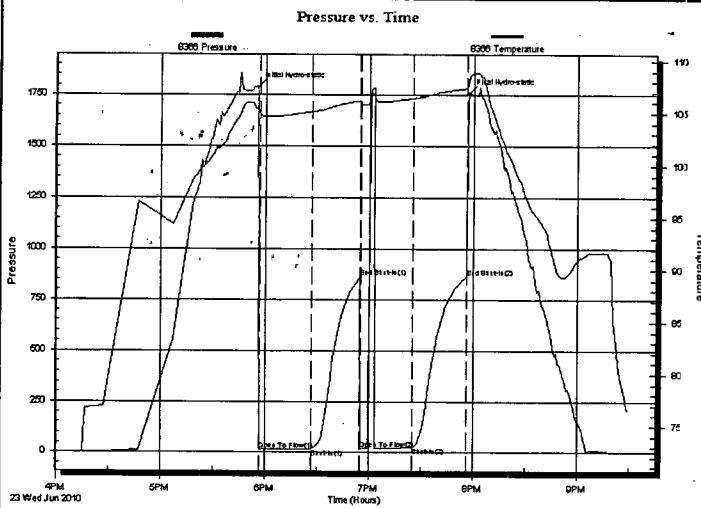
27 6S 23W Graham KS
Job Ticket: 039151 **DST#: 1**
Test Start: 2010.06.23 @ 16:15:05

GENERAL INFORMATION:

Formation: **C & D**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 17:56:30
Time Test Ended: 21:29:29
Interval: **3683.00 ft (KB) To 3725.00 ft (KB) (TVD)**
Total Depth: **3725.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Fair
Reference Elevations: **2421.00 ft (KB)**
2416.00 ft (CF)
KB to GR/CF: **5.00 ft**
Test Type: **Conventional Bottom Hole**
Tester: **Mike Roberts**
Unit No: **46**

Serial #: 8366 **Inside**
Press@RunDepth: **24.15 psig @ 3719.00 ft (KB)** Capacity: **8000.00** psig
Start Date: **2010.06.23** End Date: **2010.06.23** Last Calib.: **2010.06.23**
Start Time: **16:15:05** End Time: **21:29:29** Time On Btrm: **2010.06.23 @ 17:55:30**
Time Off Btrm: **2010.06.23 @ 19:57:00**

TEST COMMENT: IF:Weak surface blow
IS:No return blow
FF:No blow --- flushed tool---no blow
FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1787.34	105.44	Initial Hydro-static
1	13.98	104.89	Open To Flow (1)
31	17.67	105.15	Shut-In(1)
59	857.13	106.20	End Shut-In(1)
60	18.80	105.88	Open To Flow (2)
90	24.15	106.44	Shut-In(2)
121	860.34	107.41	End Shut-In(2)
122	1758.78	108.22	Final Hydro-static

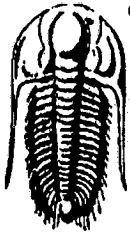
Recovery

Length (ft)	Description	Volume (bbl)
10.00	m 100% m	0.05

Gas Rates

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

ORIGINAL



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H & C Oil Operating, Inc.

Legere #27-1

P.O. Box 86
Plainville KS
67663

27 6S 23W Graham KS

Job Ticket: 039151

DST#: 1

ATTN: Marc Downing

Test Start: 2010.06.23 @ 16:15:05

Tool Information

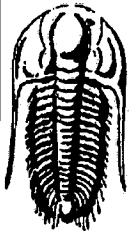
Drill Pipe:	Length: 3650.00 ft	Diameter: 3.80 inches	Volume: 51.20 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 51.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3683.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	62.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3668.00	
HYD S.I. Tool	5.00			3673.00	
Packer	5.00			3678.00	20.00 Bottom Of Top Packer
Packer	5.00			3683.00	
Stubb	1.00			3684.00	
Perforations	2.00			3686.00	
C.O. Sub	1.00			3687.00	
Blank Spacing	31.00			3718.00	
C.O. Sub	1.00			3719.00	
Recorder	0.00	8366	Inside	3719.00	
Recorder	0.00	8320	Outside	3719.00	
Perforations	3.00			3722.00	
Bullnose	3.00			3725.00	42.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H & C Oil Operating, Inc.

Legere #27-1

P.O. Box 86
Plainville KS
67663

27 6S 23W Graham KS

Job Ticket: 039151

DST#: 1

ATTN: Marc Downing

Test Start: 2010.06.23 @ 16:15:05

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 47.00 sec/qt
Water Loss: 7.76 in³
Resistivity: 0.00 ohm.m
Salinity: 1000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 0 deg API
Water Salinity: 0 ppm

Recovery Information

Recovery Table

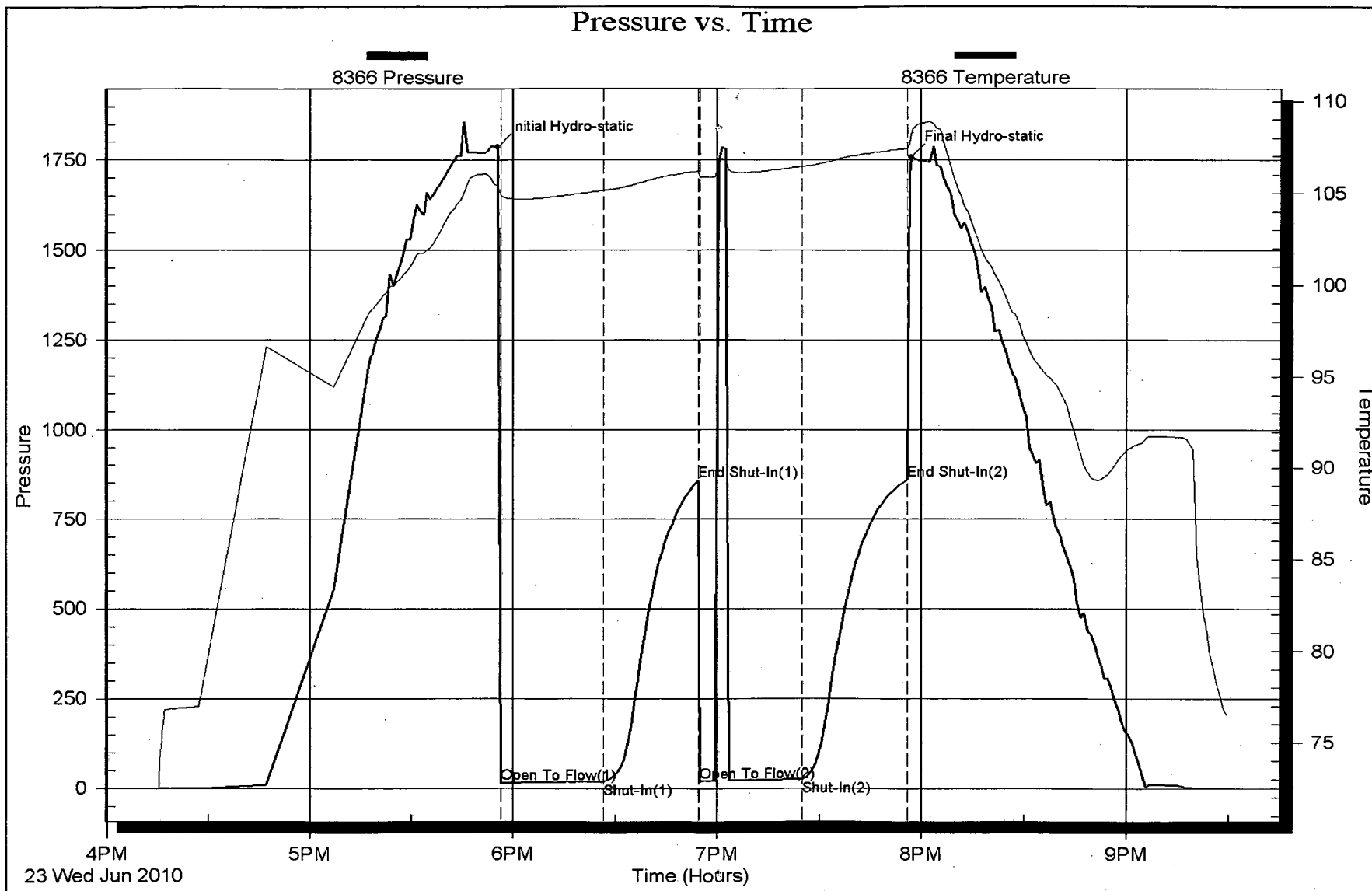
Length ft	Description	Volume bbl
10.00	m 100% m	0.049

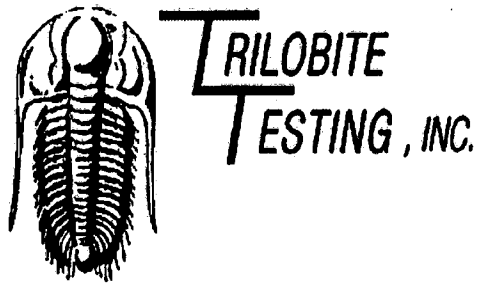
Total Length: 10.00 ft Total Volume: 0.049 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **H & C Oil Operating, Inc.**

P.O. Box 86
Plainville KS
67663

ATTN: Marc Downing

27 6S 23W Graham KS

Legere #27-1

Start Date: 2010.06.24 @ 12:41:05

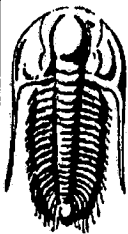
End Date: 2010.06.24 @ 19:22:29

Job Ticket #: 039152 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H & C Oil Operating, Inc.

Legere #27-1

P.O. Box 86
Plainville KS
67663
ATTN: Marc Downing

27 6S 23W Graham KS
Job Ticket: 039152 **DST#: 2**
Test Start: 2010.06.24 @ 12:41:05

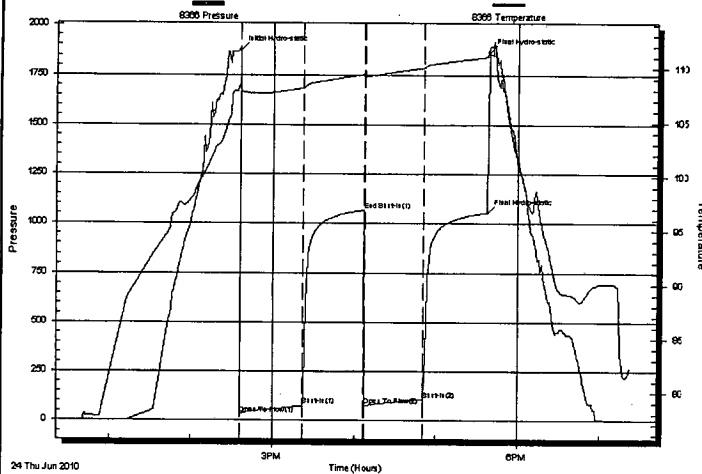
GENERAL INFORMATION:

Formation: **LKC "H-J"**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 14:36:00
 Time Test Ended: 19:22:29
 Interval: **3767.00 ft (KB) To 3821.00 ft (KB) (TVD)**
 Total Depth: 3821.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Mike Roberts
 Unit No: 46
 Reference Elevations: 2421.00 ft (KB)
 2416.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8366 **Inside**
 Press@RunDepth: 74.71 psig @ 3803.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.06.24 End Date: 2010.06.24 Last Calib.: 2010.06.24
 Start Time: 12:41:05 End Time: 19:22:29 Time On Btm: 2010.06.24 @ 14:35:30
 Time Off Btm: 2010.06.24 @ 17:37:29

TEST COMMENT: IF: Surface blow built to 6" blow
 IS: No return blow
 FF: Surface blow built to 5" blow
 FS: No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1874.64	108.45	Initial Hydro-static
1	32.46	107.91	Open To Flow (1)
47	74.71	108.19	Shut-In (1)
91	1066.28	109.44	End Shut-In (1)
92	77.05	109.15	Open To Flow (2)
135	109.07	110.04	Shut-In (2)
182	1053.72	111.05	Final Hydro-static
183	1863.84	111.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	M&SW 50% m 50% sw	3.93

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H & C Oil Operating, Inc.

Legere #27-1

P.O. Box 86
Plainville KS
67663

27 6S 23W Graham KS

Job Ticket: 039152

DST#: 2

ATTN: Marc Downing

Test Start: 2010.06.24 @ 12:41:05

Tool Information

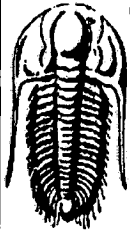
Drill Pipe:	Length: 3740.00 ft	Diameter: 3.80 inches	Volume: 52.46 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 52.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3767.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

S.I. Tool	5.00			3752.00	
HYD S.I. Tool	5.00			3757.00	
Packer	5.00			3762.00	20.00 Bottom Of Top Packer
Packer	5.00			3767.00	
Stubb	1.00			3768.00	
Perforations	2.00			3770.00	
C.O. Sub	1.00			3771.00	
Blank Spacing	31.00			3802.00	
C.O. Sub	1.00			3803.00	
Recorder	0.00	8366	Inside	3803.00	
Recorder	0.00	8320	Outside	3803.00	
Perforations	15.00			3818.00	
Bullnose	3.00			3821.00	54.00 Bottom Packers & Anchor

Total Tool Length: 74.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H & C Oil Operating, Inc.

Legere #27-1

P.O. Box 86
Plainville KS
67663

27 6S 23W Graham KS

Job Ticket: 039152 **DST#: 2**

ATTN: Marc Downing

Test Start: 2010.06.24 @ 12:41:05

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 47.00 sec/qt
Water Loss: 7.77 in³
Resistivity: 0.00 ohm.m
Salinity: 1000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 0 deg API
Water Salinity: 4000 ppm

Recovery Information

Recovery Table

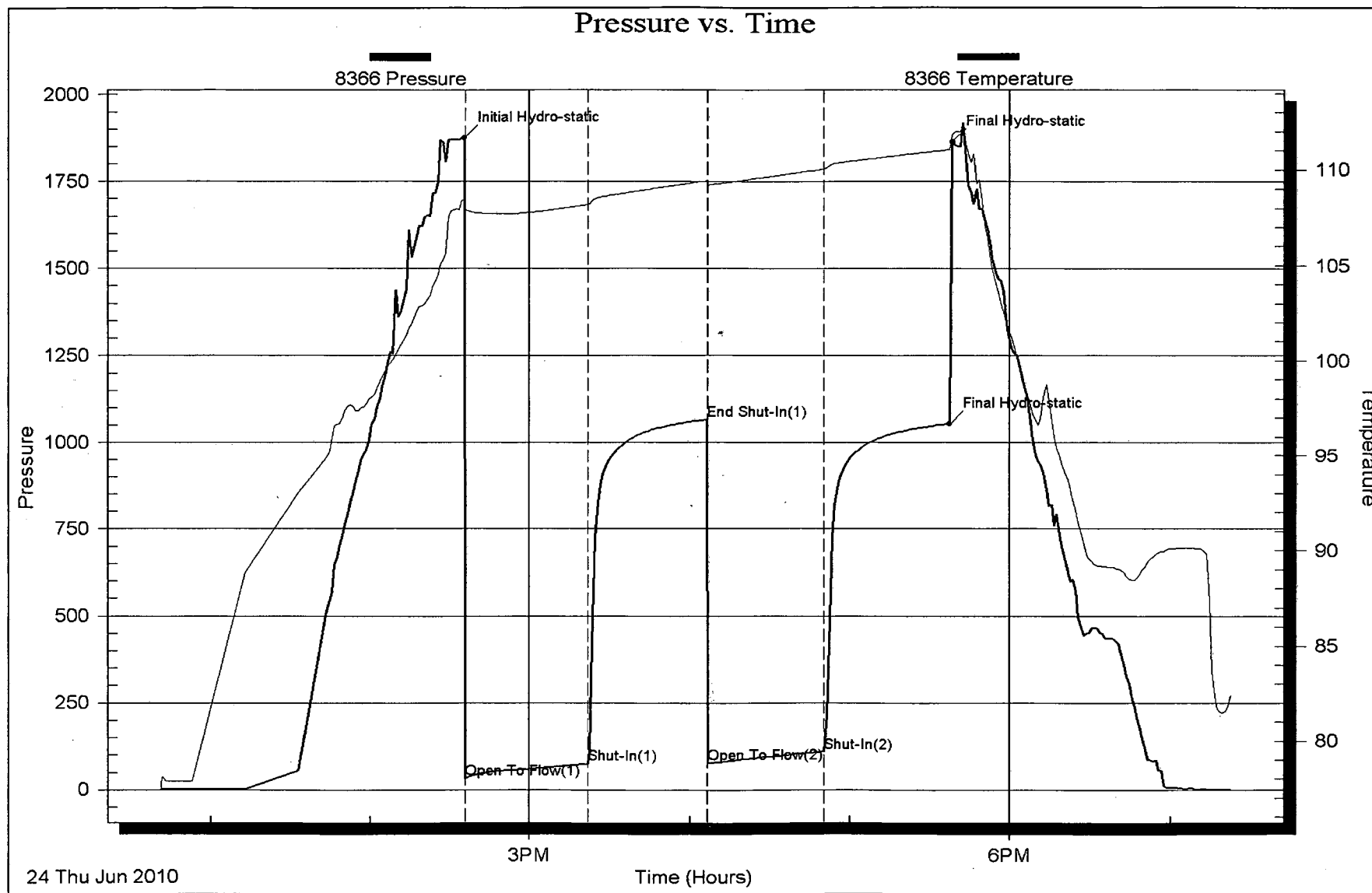
Length ft	Description	Volume bbl
300.00	M&SW 50% m 50% sw	3.935

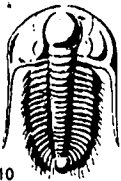
Total Length: 300.00 ft Total Volume: 3.935 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW=1.23@85*= 4000 ppm





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

No. 039151

RECEIVED
JUN 28 2010

Well Name & No. Legere # 27-1 BY: _____ Test No. 1 Date 10-23-10
 Company H + C Oil Operating, Inc. Elevation 2421 KB 2416 GL _____
 Address P.O. Box 86 Plainville KS 67663
 Co. Rep / Geo. Marc Downing Rig American Eagle #3
 Location: Sec. 27 Twp. 6S Rge. 23W Co. Graham State KS

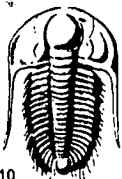
Interval Tested 3683-3725 Zone Tested "C+D"
 Anchor Length 42' Drill Pipe Run 3650 Mud Wt. 92
 Top Packer Depth 3679 Drill Collars Run 30' Vis 47
 Bottom Packer Depth 3683 Wt. Pipe Run Ø WL 7.8
 Total Depth 3725 Chlorides 1000 ppm System LCM 1
 Blow Description IF: Weak Surface Blow
IS: No Return Blow
FF: No blow - flushed tool - No blow
FS: No Return blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>M</u>			<u>100</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 10 BHT 107 Gravity — API RW — @ — F Chlorides — ppm
 (A) Initial Hydrostatic 1787 Test 1125- T-On Location 13:30
 (B) First Initial Flow 13 Jars _____ T-Started 16:15
 (C) First Final Flow 17 Safety Joint _____ T-Open 17:55
 (D) Initial Shut-In 857 Circ Sub NC T-Pulled 19:55
 (E) Second Initial Flow 18 Hourly Standby _____ T-Out 21:29
 (F) Second Final Flow 24 Mileage 100 RT 125- Comments _____
 (G) Final Shut-In 860 Sampler _____
 (H) Final Hydrostatic 1758 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total Ø
 Initial Shut-In 30 Day Standby _____ Total 1250-
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1250-

Approved By _____ Our Representative Mike Roberts

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

RECEIVED JUN 28 2010

Test Ticket

No. 039152

BY: _____

Well Name & No. Legere # 27-1 Test No. 2 Date 6-24-10

Company H&C Oil Operating, Inc. Elevation 2421 KB 2416 GL

Address P.O. Box 86 Plainville KS 67663

Co. Rep / Geo. Marc Downing Rig American Eagle #3

Location: Sec. 27 Twp. 6S Rge. 23W Co. Graham State KS

Interval Tested 3767-3821 Zone Tested LKC H-J

Anchor Length 54' Drill Pipe Run 3740 Mud Wt. 9.2

Top Packer Depth 3763 Drill Collars Run 30' Vis 47

Bottom Packer Depth 3767 Wt. Pipe Run Ø WL 7.8

Total Depth 3821 Chlorides 1000 ppm System LCM 1

Blow Description IF: Surface blow built to 6" blow

IS: No Return blow

FF: Surface blow built to 5" blow

FS: No Return blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>300</u>	<u>M+SW with Oil Spots</u>		<u>50</u>	<u>50</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	Feet of	%gas	%oil	%water	%mud
Rec Total	<u>300</u>	BHT <u>109</u>	Gravity <u>1</u>	API RW <u>123</u> @ <u>85.2</u>	F Chlorides <u>18000</u> ppm

(A) Initial Hydrostatic 1864 Test 1125- T-On Location 10:45 Am

(B) First Initial Flow 32 Jars _____ T-Started 12:41

(C) First Final Flow 74 Safety Joint _____ T-Open 14:35

(D) Initial Shut-In 1066 Circ Sub NC T-Pulled 17:35

(E) Second Initial Flow 77 Hourly Standby _____ T-Out 19:22

(F) Second Final Flow 109 Mileage 130 RT 125- Comments _____

(G) Final Shut-In 1053 Sampler _____

(H) Final Hydrostatic 1863 Straddle _____ Ruined Shale Packer _____

Initial Open 45 Shale Packer _____ Ruined Packer _____

Initial Shut-In 45 Extra Packer _____ Extra Copies _____

Final Flow 45 Extra Recorder _____ Sub Total Ø

Final Shut-In 45 Day Standby _____ Total 1250-

Accessibility _____ MP/DST Disc't _____

Sub Total 1250-

Approved By _____ Our Representative Mike Rotets

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.