

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Form ACO-1

June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

OPERATOR: License # 32798
Name: Hart Energies, L.L.C.
Address 1: 6903 So. 78th East Avenue
Address 2: _____
City: Tulsa State: OK Zip: 74133 + _____
Contact Person: William G. Hart
Phone: (918) 633-4161
CONTRACTOR: License # 5822
Name: VAL Energy, Inc., Rig 5
Wellsite Geologist: William G. Hart
Purchaser: West Wichita Gas Gathering

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: n.a.

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 #: _____

7/12/2010	7/19/2010	8/3/2010
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 007-23563-00-00

Spot Description: 20' East c W/2 NW SE

SE NW NW SE Sec. 22 Twp. 34 S. R. 10 ☐ East ☒ West

1,990 Feet from ☐ North / ☒ South Line of Section

2,030 Feet from ☒ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☒ SE ☐ SW

County: Barber

Lease Name: Miss Sharon Well #: 1

Field Name: Knorp

Producing Formation: Mississippian

Elevation: Ground: 1346 Kelly Bushing: 1357

Total Depth: 5141 Plug Back Total Depth: 4973

Amount of Surface Pipe Set and Cemented at: 200' Feet

Multiple Stage Cementing Collar Used? ☐ Yes ☒ No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: n.a.

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: unk ppm Fluid volume: _____ bbls

Dewatering method used: vacuum clear liquids, air dry, back-fill

Location of fluid disposal if hauled offsite:

Operator Name: n.a.

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: William G. Hart

Title: Member, Hart Energies, LLC Date: 2/11/2011

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: Dlg Date: 3/2/11

RECEIVED

FEB 14 2011

KCC WICHITA

Operator Name: Hart Energies, L.L.C. Lease Name: Miss Sharon Well #: 1
 Sec. 22 Twp. 34 S. R. 10 ☐ East ☒ West County: Barber

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: DIL/MEL; CNL/CDL; MEL; CBL/CCL/GR	<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>Heebner</td> <td>3589</td> <td>-2232</td> </tr> <tr> <td>Mississippian</td> <td>4676</td> <td>-3313</td> </tr> <tr> <td>Chattanooga</td> <td>5037</td> <td>-3680</td> </tr> <tr> <td>Viola</td> <td>5074</td> <td>-3717</td> </tr> </tbody> </table>	Name	Top	Datum	Heebner	3589	-2232	Mississippian	4676	-3313	Chattanooga	5037	-3680	Viola	5074	-3717
Name	Top	Datum														
Heebner	3589	-2232														
Mississippian	4676	-3313														
Chattanooga	5037	-3680														
Viola	5074	-3717														

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		200'	60/40 poz	200	2% gel
Production	7 7/8	5 1/2	15.5	4935	60/40 poz	25	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	n.a.			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4		Acid 4000 gals @ 15% HCl	4673-4683
		foam frac	

TUBING RECORD:	Size: 2 7/8	Set At: (150 Jts) 4550'	Packer At: none	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR. 8/3/2010		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)	
Estimated Production Per 24 Hours	Oil Bbls. 1 2/3	Gas Mcf 1300	Water Bbls. 620

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input checked="" 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 checked="" 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 (Specify)	PRODUCTION INTERVAL: Miss 4673-4683
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Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

ALLIED CEMENTING CO., LLC. 043124

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

SERVICE POINT: Medicine Lodge, KS

DATE <u>7-13-2010</u>	SEC. <u>22</u>	TWP. <u>34S</u>	RANGE <u>10W</u>	CALLED OUT <u>2:00 AM</u>	ON LOCATION <u>3:30 AM</u>	JOB START <u>4:30 AM</u>	JOB FINISH <u>5:00 AM</u>
LEASE <u>Miss Sharon</u>	WELL # <u>#1</u>	LOCATION <u>Hazelton KS, 25,</u>			COUNTY <u>Barber</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)			<u>1/2 E 1/2 N 10 TO</u>				

CONTRACTOR Va/#5
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 224
CASING SIZE 8 5/8 DEPTH 224
TUBING SIZE DEPTH
DRILL PIPE 4 1/2 DEPTH 224
TOOL DEPTH
PRES. MAX 200 PSI MINIMUM —
MEAS. LINE SHOE JOINT 1.5 FT
CEMENT LEFT IN CSG. 1.5 FT
PERFS.
DISPLACEMENT Fresh Water 13 1/2 BBLs
EQUIPMENT

PUMP TRUCK CEMENTER David W.
363-265 HELPER MATT T.
BULK TRUCK
#363-252 DRIVER TOM B.
BULK TRUCK
DRIVER

REMARKS:

Pipe on Bottom Breaker
Mix 200SX 60:40:2% GEL 13%
CG Shot Down Release Plug
Displace with Fresh Water
Shot in 13 1/2 BBLs cement
die line wash up Rig Down

CHARGE TO: HART Energy
STREET
CITY STATE ZIP

OWNER HART Energy
CEMENT
AMOUNT ORDERED 200SX 60:40:2% GEL 30% CE

COMMON	<u>120SX</u>	@	<u>15.45</u>	<u>1,854.00</u>
POZMIX	<u>80SX</u>	@	<u>8.00</u>	<u>640.00</u>
GEL	<u>4.5X</u>	@	<u>20.80</u>	<u>83.20</u>
CHLORIDE	<u>6.5X</u>	@	<u>58.20</u>	<u>349.20</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>210SX</u>	@	<u>2.40</u>	<u>504.00</u>
MILEAGE	<u>210SX X 30 X .10 =</u>			<u>630.00</u>
TOTAL				<u>4,060.40</u>

SERVICE

DEPTH OF JOB 224 FT
PUMP TRUCK CHARGE 1018.00
EXTRA FOOTAGE @
MILEAGE 30 @ 7.00 210.00
MANIFOLD @
RECEIVED @

FEB 14 2011

KCC WICHITA

TOTAL 1,228.00

PLUG & FLOAT EQUIPMENT

<u>Wooden Plug</u>	@	<u>68.00</u>	<u>68.00</u>
	@		
	@		
	@		
	@		
TOTAL <u>68.00</u>			

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 X Randy Smith

SIGNATURE X

SALES TAX (If Any)

TOTAL CHARGES 1,228.00

DISCOUNT 0.00 IF PAID IN 30 DAYS

Thank you!

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "ALLIED" shall mean Allied Cementing Co., LLC, and "CUSTOMER" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "Merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

—**TERMS:** Unless satisfactory credit has been established, CUSTOMER must tender full cash payment to ALLIED before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, CUSTOMER agrees to pay interest on amounts invoiced at a rate of 18 percent per annum 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 cement 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 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.

ALLIED CEMENTING CO., LLC. 042179

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

SERVICE POINT:
Medicine Lodge KS

DATE <u>071910</u>	SEC. <u>22</u>	TWP. <u>34s</u>	RANGE <u>10w</u>	CALLED OUT	ON LOCATION	JOB START <u>11:00PM</u>	JOB FINISH <u>12:15AM</u>
LEASE <u>Miss Sharon</u>	WELL # <u>1</u>	LOCATION <u>Hazelton KS, 2s, 1/4e, N/4to</u>			COUNTY <u>Barber</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Val #5

TYPE OF JOB Production Casing

HOLE SIZE 7 7/8 T.D.

CASING SIZE 5 1/2 DEPTH 4935

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX 1500 MINIMUM —

MEAS. LINE SHOE JOINT 42

CEMENT LEFT IN CSG. 42

PERFS.

DISPLACEMENT 118 Bbls 2% KCL Water

EQUIPMENT

PUMP TRUCK CEMENTER D. Felio

360-265 HELPER M. Thimesch

BULK TRUCK

363-250 DRIVER J. Thimesch

BULK TRUCK

DRIVER

REMARKS:

Pipe on Bttm, Break Casing, Pump Pre Flush, Plug.
Rat & Mouse Holes w/ 25sx 60:40 cement.
Mix 200sx tail cement, Stop Pump, Wash
Pump & Lines, Release Plug, Start Disposal/
2% KCL Water, See increase in Lfr, slow Rate
Bump Plug at 118
Bbls total Disp, Release PSI, Float & Lid
Hold

CHARGE TO: Hart Energies

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 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 Tony Smith

OWNER Hart Energy

CEMENT

AMOUNT ORDERED 25sx 60:40: 4% gel &
200sx class "A" ASC + 5# Kolseal + .5% FC160
& 500gals Mud Clean & 12gals API Clay pro

COMMON	<u>15 sx</u>	@ <u>15 45</u>	<u>231 75</u>
POZMIX	<u>10 sx</u>	@ <u>8 00</u>	<u>80 00</u>
GEL	<u>1 sx</u>	@ <u>20 00</u>	<u>20 00</u>
CHLORIDE		@	
ASC	<u>200 sx</u>	@ <u>18 00</u>	<u>3720 00</u>
<u>Kolseal</u>	<u>1000 #</u>	@ <u>.89</u>	<u>890 00</u>
<u>FI-160</u>	<u>94 #</u>	@ <u>13 25</u>	<u>1250 00</u>
<u>ASF</u>	<u>500 Gal</u>	@ <u>1.27</u>	<u>635 00</u>
<u>KCL</u>	<u>13 Gals</u>	@ <u>31 25</u>	<u>406 25</u>
		@	
		@	
		@	
		@	
HANDLING	<u>230</u>	@ <u>2.40</u>	<u>552 00</u>
MILEAGE	<u>230/.10</u>	@ <u>20</u>	<u>690 00</u>
TOTAL			<u>8476 00</u>

SERVICE

DEPTH OF JOB 4935

PUMP TRUCK CHARGE 2185 00

EXTRA FOOTAGE @

MILEAGE 30 @ 7 00 210 00

MANIFOLD Headrental @

RECEIVED @

FEB 14 2011

TOTAL 2395 00

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PLUG & FLOAT EQUIPMENT

1-TRP	@	<u>74 00</u>
1-Guide Shoe	@	<u>115 00</u>
1-AFU insert	@	<u>128 00</u>
2-Baskets	@ <u>184 00</u>	<u>368 00</u>
5-centralizers	@ <u>36 00</u>	<u>180 00</u>
TOTAL		<u>869 00</u>

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

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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:

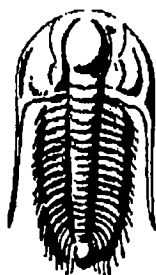
1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, 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: **Hart Energies LLC**

6903 S 78th E Ave
Tulsa OK 74133

ATTN: Bill Hart

22-34s-10w Barber KS

Miss Sharon#1

Start Date: 2010.07.17 @ 02:49:02

End Date: 2010.07.17 @ 11:04:17

Job Ticket #: 039234 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

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Printed: 2010.07.29 @ 15:35:32 Page 1

Hart Energies LLC

Miss Sharon#1

22-34s-10w Barber KS

DST # 1

Miss.

2010.07.17



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Hart Energies LLC

6903 S 78th E Ave
Tulsa OK 74133

ATTN: Bill Hart

Miss Sharon#1

22-34s-10w Barber KS

Job Ticket: 039234

DST#: 1

Test Start: 2010.07.17 @ 02:49:02

GENERAL INFORMATION:

Formation: Miss.

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:08:47

Time Test Ended: 11:04:17

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: 4666.00 ft (KB) To 4690.00 ft (KB) (TVD)

Total Depth: 4690.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1364.00 ft (KB)

1354.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8167

Inside

Press@RunDepth: 506.97 psig @ 4667.00 ft (KB)

Start Date: 2010.07.17

End Date:

2010.07.17

Start Time: 02:49:07

End Time:

11:04:16

Capacity: 8000.00 psig

Last Calib.: 2010.07.17

Time On Btm: 2010.07.17 @ 05:06:02

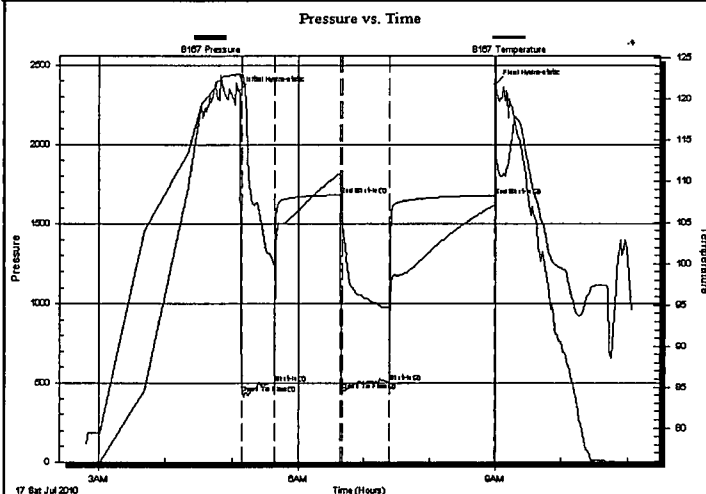
Time Off Btm: 2010.07.17 @ 09:00:01

TEST COMMENT: IF: Strong blow . GTS in 1.8 mins. (see gas flow report)

IS: No blow .

FF: Strong blow . (see gas flow report)

FS: No blow .



PRESSURE SUMMARY

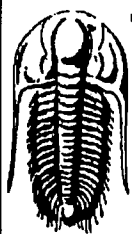
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2342.72	123.03	Initial Hydro-static
3	433.28	123.01	Open To Flow (1)
33	499.92	99.80	Shut-In(1)
93	1682.64	110.94	End Shut-In(1)
95	451.72	105.89	Open To Flow (2)
138	506.97	94.78	Shut-In(2)
234	1680.14	107.10	End Shut-In(2)
234	2382.73	112.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Condensate	0.04
3.00	Drilg.mud	0.04

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	80.00	2713.89
Last Gas Rate	1.00	99.00	3260.12
Max. Gas Rate	1.00	101.00	3317.61



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hart Energies LLC

Miss Sharon#1

6903 S 78th E Ave
Tulsa OK 74133

22-34s-10w Barber KS

Job Ticket: 039234

DST#: 1

ATTN: Bill Hart

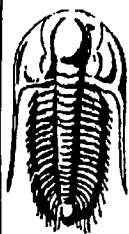
Test Start: 2010.07.17 @ 02:49:02

Tool Information

Drill Pipe:	Length: 4676.00 ft	Diameter: 3.80 inches	Volume: 65.59 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 83000.00 lb
			Total Volume: 65.59 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4666.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4647.00	
Shut in tool	5.00			4652.00	
HMV	5.00			4657.00	
Packer	4.00			4661.00	20.00 Bottom Of Top Packer
Packer	5.00			4666.00	
Stubb	1.00			4667.00	
Recorder	0.00	8167	Inside	4667.00	
Recorder	0.00	8370	Outside	4667.00	
Perforations	18.00			4685.00	
Bullnose	5.00			4690.00	24.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Hart Energies LLC

Miss Sharon#1

6903 S 78th E Ave
Tulsa OK 74133

22-34s-10w Barber KS

Job Ticket: 039234

DST#: 1

ATTN: Bill Hart

Test Start: 2010.07.17 @ 02:49:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

5000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Condensate	0.042
3.00	Drig.mud	0.042

Total Length: 6.00 ft

Total Volume: 0.084 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-1

Laboratory Name: Caraway

Laboratory Location:

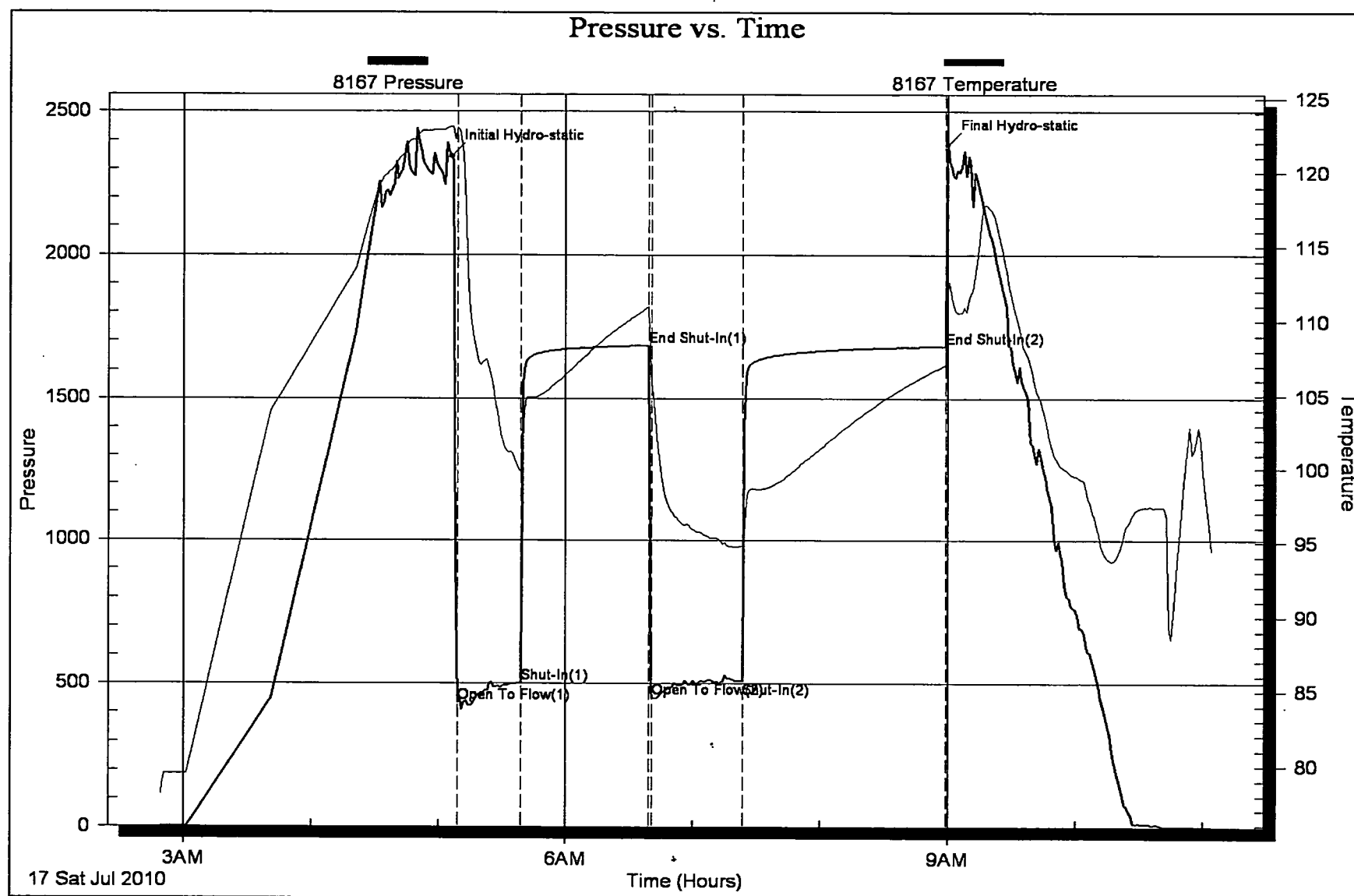
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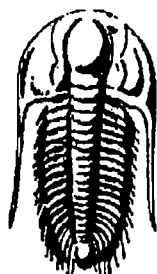
Serial #: 8167

Inside Hart Energies LLC

22-34s-10w Barber KS

DST Test Number: 1





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Hart Energies LLC**

6903 S 78th E Ave
Tulsa OK 74133

ATTN: Bill Hart

22-34s-10w Barber KS

Miss Sharon#1

Start Date: 2010.07.17 @ 02:49:02

End Date: 2010.07.17 @ 11:04:17

Job Ticket #: 039234 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Hart Energies LLC

6903 S 78th E Ave
Tulsa OK 74133

ATTN: Bill Hart

Miss Sharon#1

22-34s-10w Barber KS

Job Ticket: 039234

DST#: 1

Test Start: 2010.07.17 @ 02:49:02

GENERAL INFORMATION:

Formation: Miss.

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:08:47

Time Test Ended: 11:04:17

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: 4666.00 ft (KB) To 4690.00 ft (KB) (TVD)

Total Depth: 4690.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1364.00 ft (KB)

1354.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8167

Inside

Press@RunDepth: 506.97 psig @ 4667.00 ft (KB)

Start Date: 2010.07.17

End Date:

2010.07.17

Start Time: 02:49:07

End Time:

11:04:16

Capacity: 8000.00 psig

Last Calib.: 2010.07.17

Time On Btm: 2010.07.17 @ 05:06:02

Time Off Btm: 2010.07.17 @ 09:00:01

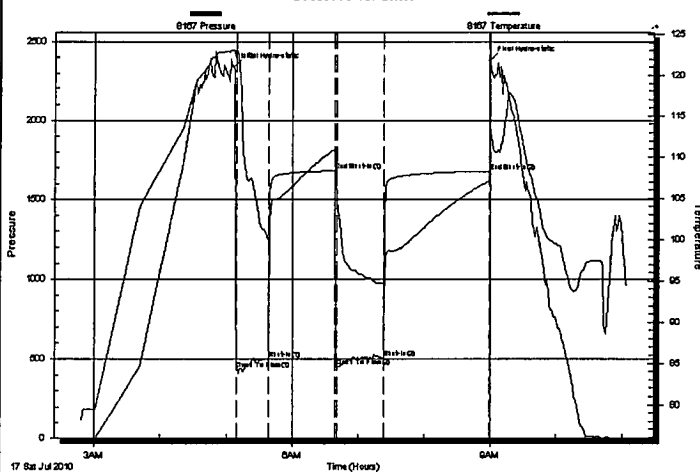
TEST COMMENT: IF: Strong blow. GTS in 1.8 mins. (see gas flow report)

IS: No blow.

FF: Strong blow. (see gas flow report)

FS: No blow.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2342.72	123.03	Initial Hydro-static
3	433.28	123.01	Open To Flow (1)
33	499.92	99.80	Shut-In(1)
93	1682.64	110.94	End Shut-In(1)
95	451.72	105.89	Open To Flow (2)
138	506.97	94.78	Shut-In(2)
234	1680.14	107.10	End Shut-In(2)
234	2382.73	112.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Condensate	0.04
3.00	Drig.mud	0.04

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	80.00	2713.89
Last Gas Rate	1.00	99.00	3260.12
Max. Gas Rate	1.00	101.00	3317.61



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hart Energies LLC

Miss Sharon#1

6903 S 78th E Ave
Tulsa OK 74133

22-34s-10w Barber KS

Job Ticket: 039234

DST#: 1

ATTN: Bill Hart

Test Start: 2010.07.17 @ 02:49:02

Tool Information

Drill Pipe:	Length: 4676.00 ft	Diameter: 3.80 inches	Volume: 65.59 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 83000.00 lb
			Total Volume: 65.59 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4666.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4647.00	
Shut in tool	5.00			4652.00	
HMV	5.00			4657.00	
Packer	4.00			4661.00	20.00 Bottom Of Top Packer
Packer	5.00			4666.00	
Stubb	1.00			4667.00	
Recorder	0.00	8167	Inside	4667.00	
Recorder	0.00	8370	Outside	4667.00	
Perforations	18.00			4685.00	
Bullnose	5.00			4690.00	24.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hart Energies LLC

Miss Sharon#1

6903 S 78th E Ave
Tulsa OK 74133

22-34s-10w Barber KS

Job Ticket: 039234

DST#: 1

ATTN: Bill Hart

Test Start: 2010.07.17 @ 02:49:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

5000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Condensate	0.042
3.00	Drig.mud	0.042

Total Length: 6.00 ft

Total Volume: 0.084 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-1

Laboratory Name: Caraway

Laboratory Location:

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Hart Energies LLC

Miss Sharon#1

6903 S 78th E Ave
Tulsa OK 74133

22-34s-10w Barber KS

Job Ticket: 039234

DST#: 1

ATTN: Bill Hart

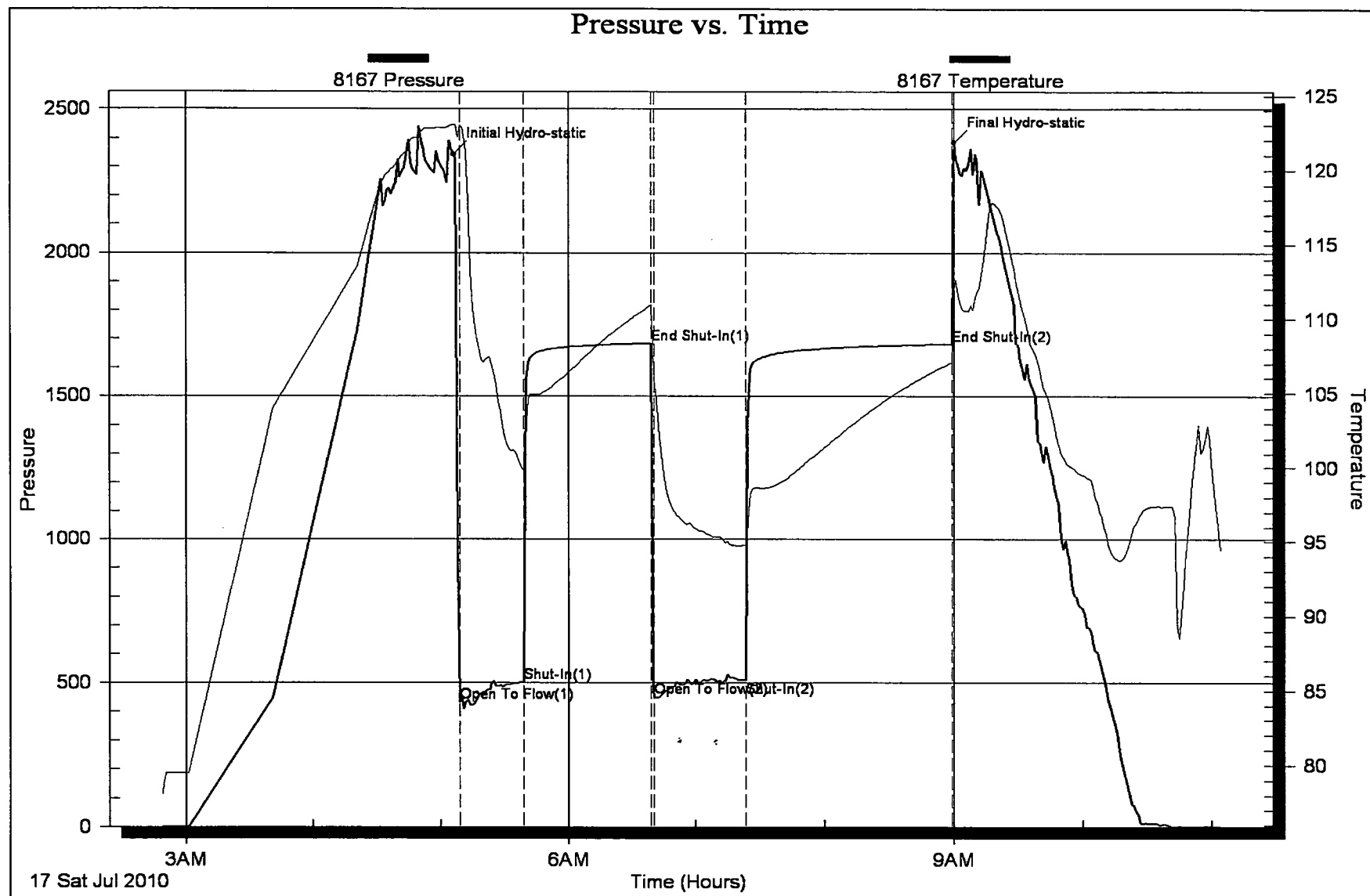
Test Start: 2010.07.17 @ 02:49:02

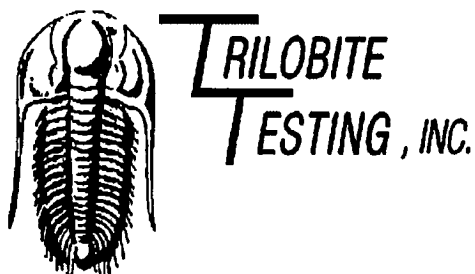
Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	10	1.00	80.00	2713.89
1	10	1.00	80.00	2713.89
1	20	1.00	91.00	3030.13
1	30	1.00	95.00	3145.12
2	10	1.00	93.00	3087.62
2	20	1.00	101.00	3317.61
2	30	1.00	100.00	3288.86
2	45	1.00	99.00	3260.12





DRILL STEM TEST REPORT

Prepared For: **Hart Energies LLC**

6903 S 78th E Ave
Tulsa OK 74133

ATTN: Bill Hart

22-34s-10w Barber KS

Miss Sharon#1

Start Date: 2010.07.17 @ 19:48:56

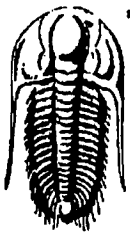
End Date: 2010.07.18 @ 03:02:26

Job Ticket #: 039235 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

Hart Energies LLC

6903 S 78th E Ave
Tulsa OK 74133

ATTN: Bill Hart

Miss Sharon#1

22-34s-10w Barber KS

Job Ticket: 039235

DST#: 2

Test Start: 2010.07.17 @ 19:48:56

GENERAL INFORMATION:

Formation: Miss.

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:03:26

Time Test Ended: 03:02:26

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: 4703.00 ft (KB) To 4780.00 ft (KB) (TVD)

Total Depth: 4780.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1364.00 ft (KB)

1354.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8167

Inside

Press@RunDepth: 237.14 psig @ 4704.00 ft (KB)

Start Date: 2010.07.17

End Date:

2010.07.18

Start Time: 19:49:01

End Time:

03:02:25

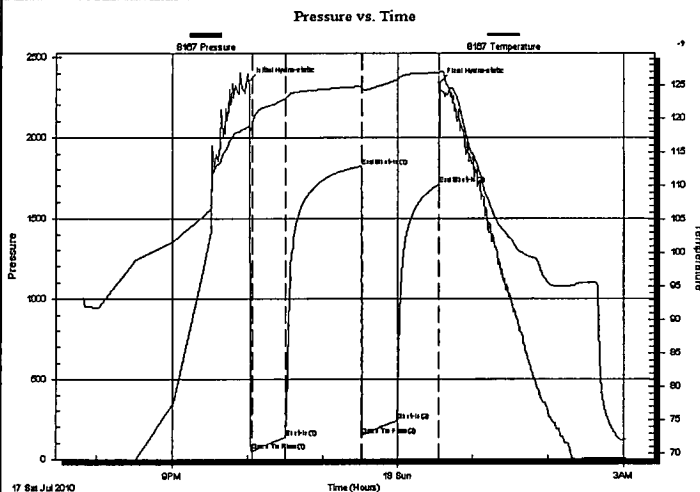
Capacity: 8000.00 psig

Last Calib.: 2010.07.18

Time On Btm: 2010.07.17 @ 22:00:56

Time Off Btm: 2010.07.18 @ 00:33:40

TEST COMMENT: IF: Strong blow . B.O.B. in 80 secs.
IS: Weak blow . 1/2 - 1 1/2".
FF: Strong blow . B.O.B. in 6 1/2 mins.
FS: Weak blow . 1/2".



PRESSURE SUMMARY

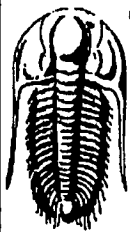
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2351.13	118.86	Initial Hydro-static
3	51.29	118.88	Open To Flow (1)
30	137.18	123.02	Shut-In(1)
90	1821.45	124.91	End Shut-In(1)
91	148.37	124.49	Open To Flow (2)
119	237.14	125.91	Shut-In(2)
152	1707.27	126.89	End Shut-In(2)
153	2343.85	127.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1710 ft. of GIP	0.00
155.00	GOCWM 10%g 3%o 39%w 48%m	2.17
125.00	GOCMW 12%g 1%o 12%m 75%w	1.75
185.00	GCW 5%g 95%w / Rw .065ohms@82deg	2.60

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hart Energies LLC

6903 S 78th E Ave
Tulsa OK 74133

ATTN: Bill Hart

Miss Sharon#1

22-34s-10w Barber KS

Job Ticket: 039235

DST#: 2

Test Start: 2010.07.17 @ 19:48:56

Tool Information

Drill Pipe:	Length: 4709.00 ft	Diameter: 3.80 inches	Volume: 66.05 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 83000.00 lb
			Total Volume: 66.05 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4703.00 ft			Final 76500.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	77.00 ft			
Tool Length:	97.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4684.00	
Shut in tool	5.00			4689.00	
H/V	5.00			4694.00	
Packer	4.00			4698.00	20.00 Bottom Of Top Packer
Packer	5.00			4703.00	
Stubb	1.00			4704.00	
Recorder	0.00	8167	Inside	4704.00	
Recorder	0.00	8370	Outside	4704.00	
Perforations	8.00			4712.00	
Blank Spacing	63.00			4775.00	
Bullnose	5.00			4780.00	77.00 Bottom Packers & Anchor

Total Tool Length: 97.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hart Energies LLC

Miss Sharon#1

6903 S 78th E Ave
Tulsa OK 74133

22-34s-10w Barber KS

Job Ticket: 039235

DST#: 2

ATTN: Bill Hart

Test Start: 2010.07.17 @ 19:48:56

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity: 111000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1710 ft.of GIP	0.000
155.00	GOCMM 10%g 3%o 39%w 48%m	2.174
125.00	GOCMM 12%g 1%o 12%m 75%w	1.753
185.00	GCW 5%g 95%w / Rw .065ohms@82deg	2.595

Total Length: 465.00 ft

Total Volume: 6.522 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

