

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

05/11/13

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

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 Ramsay
Phone: (785) 434-7434
CONTRACTOR: License # 33493
Name: American Eagle Drilling, LLC
Wellsite Geologist: Marc Downing
Purchaser: Coffeyville

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 #: _____
03/12/2011 03/17/2011 05/5/2011
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 065-23721-00-00
Spot Description: _____
NW SE NE NW Sec. 15 Twp. 7 S. R. 23 East West
825 Feet from North / South Line of Section
1,990 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Graham
Lease Name: Trexler Well #: 15-1
Field Name: Wildcat
Producing Formation: Lansing Kansas City
Elevation: Ground: 2363 Kelly Bushing: 2370
Total Depth: 3885 Plug Back Total Depth: 3862
Amount of Surface Pipe Set and Cemented at: 262 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2041 Feet
If Alternate II completion, cement circulated from: 2040
feet depth to: surface w/ 300 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: _____
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Operator Name: _____
Lease Name: _____ License #: **KCC**
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 Ramsay
Title: President Date: 5-11-11

KCC Office Use ONLY **RECEIVED**
 Letter of Confidentiality Received
Date: 5/11/11 - 5/11/13
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: MS Date: 5-23-11
MAY 12 2011
KCC WICHITA

Operator Name: H & C Oil Operating, Inc. Lease Name: Trexler Well #: 15-1
 Sec. 15 Twp. 7 S. R. 23 East West County: Graham

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: Dual induction, borehole compensated sonic, dual compensated porosity, microresistivity, sonic cement bond log	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>2063</td> <td>+307</td> </tr> <tr> <td>Topeka</td> <td>3404</td> <td>-1034</td> </tr> <tr> <td>Heebner</td> <td>3608</td> <td>-1238</td> </tr> <tr> <td>Toronto</td> <td>3634</td> <td>-1264</td> </tr> <tr> <td>Lansing</td> <td>3649</td> <td>-1279</td> </tr> <tr> <td>Base Kansas City</td> <td>3845</td> <td>-1475</td> </tr> </table>	Name	Top	Datum	Anhydrite	2063	+307	Topeka	3404	-1034	Heebner	3608	-1238	Toronto	3634	-1264	Lansing	3649	-1279	Base Kansas City	3845	-1475
Name	Top	Datum																				
Anhydrite	2063	+307																				
Topeka	3404	-1034																				
Heebner	3608	-1238																				
Toronto	3634	-1264																				
Lansing	3649	-1279																				
Base Kansas City	3845	-1475																				

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"	23#	262'	common	160	3% cc, 2% gel
production	7 7/8"	5 1/2"	14#	3882'	common	210	10% salt, 5% gilsonite

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	2040-surface	QMDC	300	1/4# floseal per sack

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
4 SPF	3698-3702	500 Gal. 15% NE	3702

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TUBING RECORD:	Size: <u>2 3/8"</u>	Set At: <u>3856</u>	Packer At: <u>none</u>	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>5/6/2011</u>		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. <u>46</u>	Gas Mcf	Water Bbls. <u>62</u>	Gas-Oil Ratio	Gravity <u>31</u>

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 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: <u>3698-3702</u>
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QUALITY OILWELL CEMENTING, INC.

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

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

No. 4934

Date <u>3-11-11</u>	Sec. <u>15</u>	Twp. <u>7</u>	Range <u>23</u>	County <u>Carthage</u>	State <u>KS</u>	On Location	Finish <u>10:30am</u>
---------------------	----------------	---------------	-----------------	------------------------	-----------------	-------------	-----------------------

Lease DEE Henry Texas Well No. 15-1 Location Hill City 2 W Rd 1/2 W Sinto

Contractor American Eagle #2 Owner

Type Job Surface To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size 17/4 T.D. 264 Charge To H&C

Csg. 8 5/8 Depth 264 Street

Tbg. Size Depth City State

Tool Depth Cement Left in Csg. 15' Shoe Joint The above was done to satisfaction and supervision of owner agent or contractor.

Meas Line Displace 15/2BC Cement Amount Ordered 160 lbm 50 lbs 2 1/2 lb

EQUIPMENT			
Pumptrk	1	No. Cementer Helper <u>Craig</u>	Common <u>160</u>
Bulktrk		No. Driver <u>Veale</u>	Poz. Mix
Bulktrk	10	No. Driver <u>Rocky</u>	Gel. <u>3</u>
			Calcium <u>5</u>

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
<u>8 5/8 on bottom 15' Circulation</u>	Sand
<u>mix 160 sac & Displace</u>	Handling <u>169</u>
<u>Cement Circulated</u>	Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

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Thavis Pumptrk Charge Surface
Mileage 40

X Signature Todd E. Miller

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Discount
MAY 12 2011
Total Charge

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QUALITY OILWELL CEMENTING, INC.

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

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

No. 4791

Date	3-18-11	Sec.	15	Twp.	7	Range	23	County	Grain	State	Kansas	On Location		Finish	8:10 AM
Lease	Traylor	Well No.	15-1			Location Hill City 8N 2W S10E									
Contractor	Americana Energy Drilling Rig?							Owner							
Type Job	Langsting							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size				T.D.	3335			Charge To HFC Oil							
Csg.	5 1/2 IAB			Depth	3361			Street							
Tbg. Size				Depth				City State							
Tool				Depth				City State							
Cement Left in Csg.				Shoe Joint	19'			The above was done to satisfaction and supervision of owner agent or contractor.							
Meas Line				Displace	944 Bbl			Cement Amount Ordered 210 Com 10% Salt 500 Load Mud CLR 48							
EQUIPMENT															
Pumptrk	4	No.	Cementier				Common 210								
			Helper	Steve											
Bulktrk	8	No.	Driver	Craig			Poz. Mix								
			Driver	Rocky			Gel.								
Bulktrk		No.	Driver				Calcium								
			Driver				Hulls								
JOB SERVICES & REMARKS															
Remarks:	Rat Hole														
Rat Hole	Salt 18														
Mouse Hole	Flowseal														
Centralizers	Kol-Seal 1050 #														
Baskets	Mud CLR 48 500 gal														
D/V or Port Collar	CFL-117 or CD110 CAF 38														
	Sand														
	Handling 228														
	Mileage														
FLOAT EQUIPMENT															
	Guide Shoe														
	Centralizer 8 Turbos														
	Baskets 5														
	AFU Inserts														
	Float Shoe 1														
	Latch Down 1														
	1 port Collar														
	Pumptrk Charge prod Long Surface														
	Mileage 39														
Tax															
Discount															
Total Charge															
Signature: <i>[Handwritten Signature]</i>															

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QUALITY OILWELL CEMENTING, INC.

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

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

No. 4949

Date	4-4-11	Sec.	Twp.	Range	County	State	On Location	Finish	
Lease	Trexler	Well No.	15-1	Location					N.W. 1/4 Sec 15-1 Twp 23S R15W
Contractor	Chito's	Owner			To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.				
Type Job	Port Collar	Hole Size	7 7/8	T.D.	Charge To				
Csg.	5 1/2	Depth	N+C						
Tbg. Size	2 3/8	Depth	Street						
Tool	Port Collar	Depth	2040	City					State
Cement Left in Csg.	Shoe Joint			The above was done to satisfaction and supervision of owner agent or contractor.					
Meas Line	Displace			8BL-6	Cement Amount Ordered				

EQUIPMENT

Pumptrk	9	No.	Cementer	Craig	Common	300
			Helper			
Bulktrk		No.	Driver	Ross	Poz. Mix	
			Driver			
Bulktrk	4	No.	Driver	Drug	Gel.	
			Driver			

JOB SERVICES & REMARKS

Remarks:	Calcium
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal 75#
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
Port Collar @ 2040 Pump 80BL	CFL-117 or CD110 CAF 38
Mud + Est. Circulation MIX 300 S/C	Sand
Cement Did NOT Circulate!	Handling
Ran 5 joints & wash out	Mileage
	FLOAT EQUIPMENT
	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

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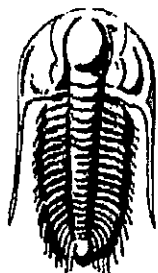
MAY 12 2011

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Pumptrk Charge *port collar*
Mileage 39

Tax	
Discount	
Total Charge	

X Signature *Charles B Ramsey*



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **H&C Oper.**

P.O. Box 86
Plainville KS 67663

ATTN: Marc Downing

15-7-23 Graham, KS

Trexler 15-1

Start Date: 2011.03.15 @ 02:25:00

End Date: 2011.03.15 @ 11:20:30

Job Ticket #: 040747 DST #: 1

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KCC WICHITA

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

H&C Oper.

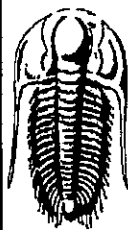
Trexler 15-1

15-7-23 Graham, KS

DST # 1

LKC-C-D

2011.03.15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oper.
P.O. Box 86
Plainville KS 67663
ATTN: Marc Downing

Trexler 15-1
15-7-23 Graham, KS
Job Ticket: 040747 DST#: 1
Test Start: 2011.03.15 @ 02:25:00

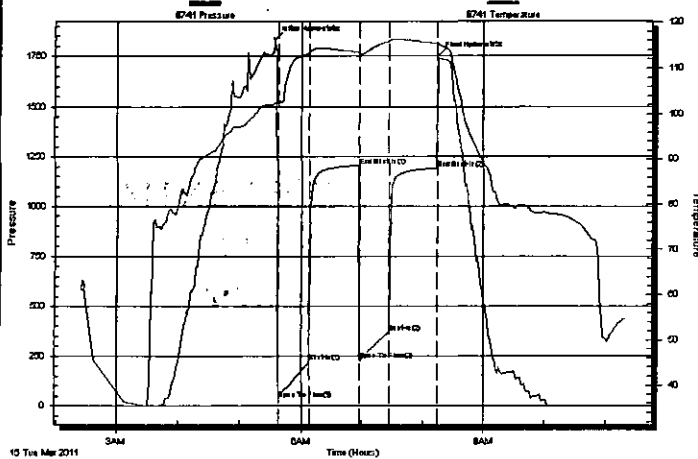
GENERAL INFORMATION:

Formation: **LKC-C-D**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 05:37:30
Time Test Ended: 11:20:30
Interval: **3663.00 ft (KB) To 3710.00 ft (KB) (TVD)**
Total Depth: **3710.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole**
Tester: **Chuck Kreutzer Jr.**
Unit No: **36**
Reference Elevations: **2368.00 ft (KB)**
2363.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 6741 **Outside**
Press@RunDepth: **369.67 psig @ 3666.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2011.03.15** End Date: **2011.03.15** Last Calib.: **2011.03.15**
Start Time: **02:25:01** End Time: **11:20:30** Time On Btm: **2011.03.15 @ 05:33:30**
Time Off Btm: **2011.03.15 @ 08:15:30**

TEST COMMENT: IF: Strong blow, B.O.B in 3 mins.
IS: No blow back over 45 mins.
FF: Strong blow, B.O.B in 5 mins.
FS: Weak surface blow back, Died in 18 mins.

Pressure vs. Time



PRESSURE SUMMARY

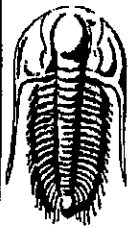
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1832.98	102.18	Initial Hydro-static
4	35.48	102.48	Open To Flow (1)
35	217.99	113.44	Shut-In(1)
84	1205.32	113.56	End Shut-In(1)
85	229.72	113.07	Open To Flow (2)
114	369.67	115.86	Shut-In(2)
161	1192.29	115.38	End Shut-In(2)
162	1753.08	115.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	mcw - 10% m 90% w	3.48
248.00	gocmw - 10% g 20% o 20% m 50% w	3.48
186.00	gocmw - 20% g 10% m 30% w 40% o	2.61
124.00	gw mco - 10% m 30% g 20% w 40% o	1.74
62.00	oil - 100%	0.87

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oper.
P.O. Box 86
Plainville KS 67663
ATTN: Marc Downing

Trexler 15-1
15-7-23 Graham, KS
Job Ticket: 040747 **DST#: 1**
Test Start: 2011.03.15 @ 02:25:00

Tool Information

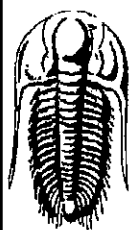
Drill Pipe:	Length: 3651.00 ft	Diameter: 3.80 inches	Volume: 51.21 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: 51.21 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3663.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	67.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3648.00	
Hydraulic tool	5.00			3653.00	
Packer	5.00			3658.00	20.00 Bottom Of Top Packer
Packer	5.00			3663.00	
Stubb	1.00			3664.00	
Perforations	1.00			3665.00	
Change Over Sub	1.00			3666.00	
Recorder	0.00	6752	Inside	3666.00	
Recorder	0.00	6741	Outside	3666.00	
Blank Spacing	30.00			3696.00	
Change Over Sub	1.00			3697.00	
Perforations	10.00			3707.00	
Bullnose	3.00			3710.00	47.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oper.
P.O. Box 86
Plainville KS 67663
ATTN: Marc Dow ning

Trexler 15-1
15-7-23 Graham, KS
Job Ticket: 040747 DST#: 1
Test Start: 2011.03.15 @ 02:25:00

Mud and Cushion Information

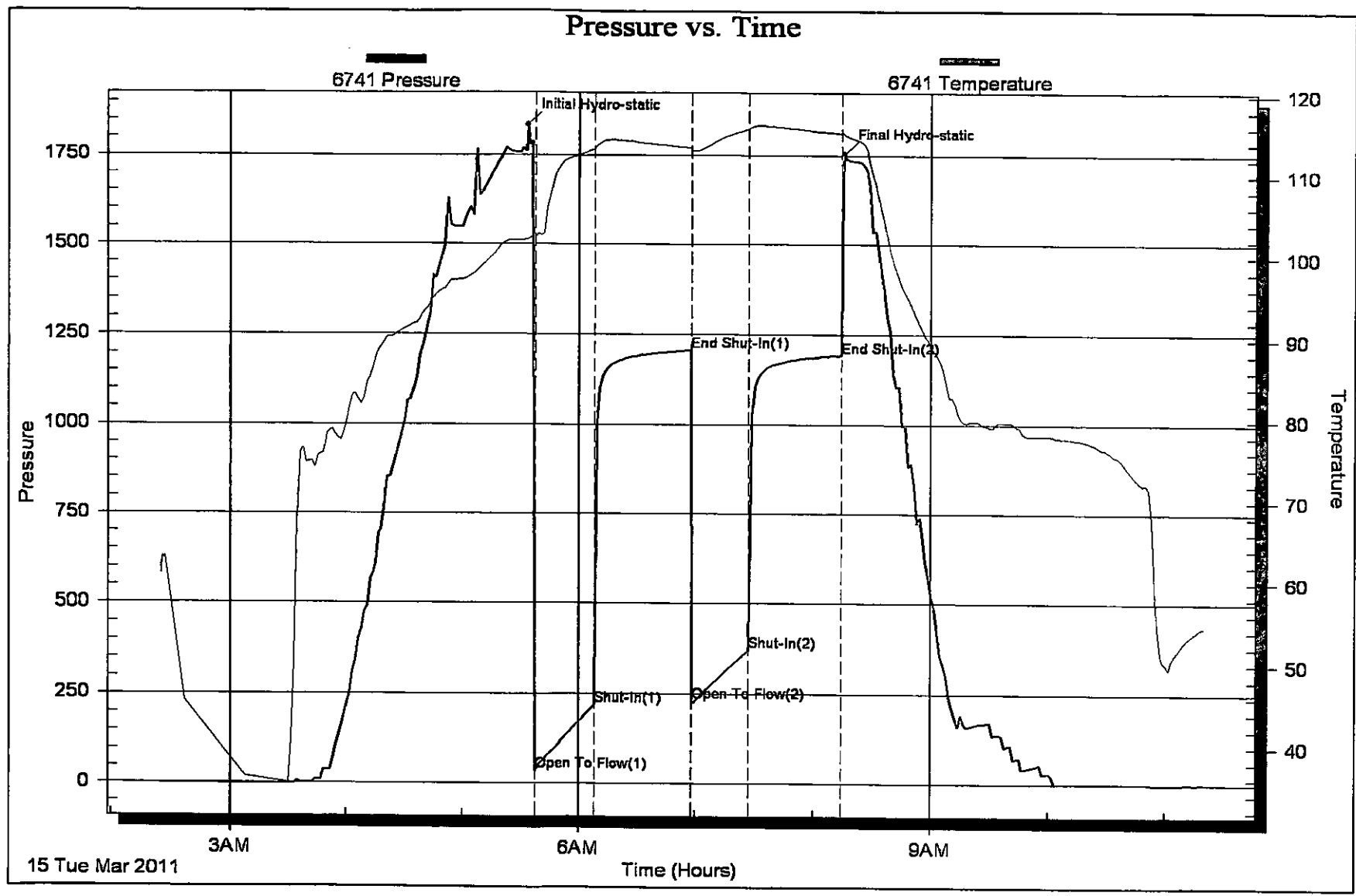
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 800.00 ppm			
Filter Cake: 2.00 inches			

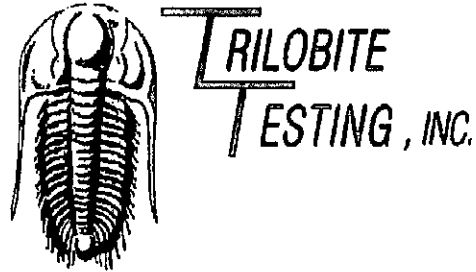
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	mcw -10%m90%w	3.479
248.00	gocmw -10%g20%o20%m50%w	3.479
186.00	gocmw -20%g10%m30%w 40%o	2.609
124.00	gw mco-10%m30%g20%w 40%o	1.739
62.00	oil-100%	0.870

Total Length: 868.00 ft Total Volume: 12.176 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **H&C Oper.**

P.O. Box 86
Plainville KS 67663

ATTN: Marc Downing

15-7-23 Graham, KS

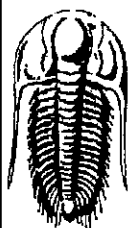
Trexler 15-1

Start Date: 2011.03.15 @ 22:00:00

End Date: 2011.03.16 @ 04:07:30

Job Ticket #: 040748 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 Oper.
P.O. Box 86
Plainville KS 67663
ATTN: Marc Downing

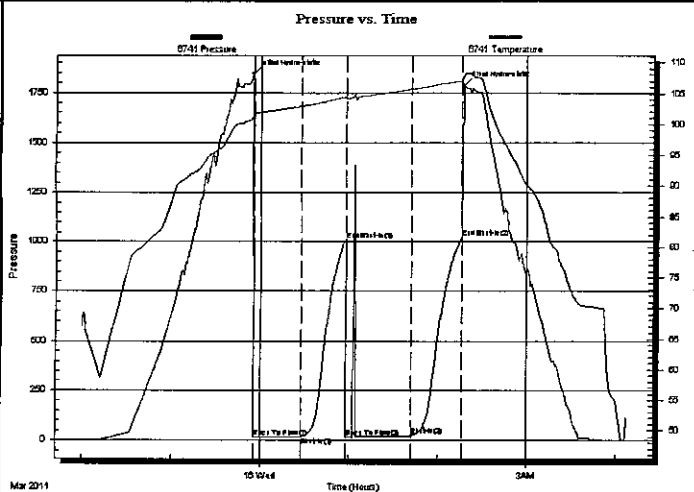
Trexler 15-1
15-7-23 Graham, KS
Job Ticket: 040748 DST#: 2
Test Start: 2011.03.15 @ 22:00:00

GENERAL INFORMATION:

Formation: **LKC-H**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:55:30
Time Test Ended: 04:07:30
Interval: **3756.00 ft (KB) To 3800.00 ft (KB) (TVD)**
Total Depth: **3800.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Chuck Kreutzer Jr.
Unit No: 36
Reference Elevations: 2368.00 ft (KB)
2363.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6741 Outside
Press@RunDepth: 22.88 psig @ 3759.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.03.15 End Date: 2011.03.16 Last Calib.: 2011.03.16
Start Time: 22:00:01 End Time: 04:07:30 Time On Btm: 2011.03.15 @ 23:54:30
Time Off Btm: 2011.03.16 @ 02:17:30

TEST COMMENT: IF: Weak blow, built to 1/8 in. over 30 mins.
FF: No blow back over 30 mins.
FF: Flushed tool, No blow over 30 mins.
FSI: No blow back over 30 mins.



PRESSURE SUMMARY

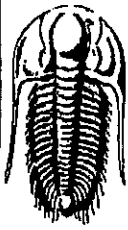
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1844.75	101.42	Initial Hydro-static
1	13.84	101.48	Open To Flow (1)
33	16.47	102.91	Shut-In(1)
63	1012.47	104.42	End Shut-In(1)
64	17.29	104.16	Open To Flow (2)
108	22.88	105.68	Shut-In(2)
142	1023.98	107.04	End Shut-In(2)
143	1787.51	107.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud w ith oil specs	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oper.

Trexler 15-1

P.O. Box 86
Plainville KS 67663

15-7-23 Graham, KS

Job Ticket: 040748

DST#: 2

ATTN: Marc Downing

Test Start: 2011.03.15 @ 22:00:00

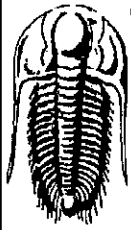
Tool Information

Drill Pipe:	Length: 3742.00 ft	Diameter: 3.80 inches	Volume: 52.49 bbl	Tool Weight: 2000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 42000.00 lb
			<u>Total Volume: 52.49 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3756.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3741.00	
Hydraulic tool	5.00			3746.00	
Packer	5.00			3751.00	20.00 Bottom Of Top Packer
Packer	5.00			3756.00	
Stubb	1.00			3757.00	
Perforations	1.00			3758.00	
Change Over Sub	1.00			3759.00	
Recorder	0.00	6752	Inside	3759.00	
Recorder	0.00	6741	Outside	3759.00	
Blank Spacing	30.00			3789.00	
Change Over Sub	1.00			3790.00	
Perforations	7.00			3797.00	
Bullnose	3.00			3800.00	44.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oper.

Trexler 15-1

P.O. Box 86
Plainville KS 67663

15-7-23 Graham, KS

Job Ticket: 040748

DST#: 2

ATTN: Marc Dow ning

Test Start: 2011.03.15 @ 22:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 44.00 sec/qt
Water Loss: 7.97 in³
Resistivity: ohm.m
Salinity: 800.00 ppm
Filter Cake: 2.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

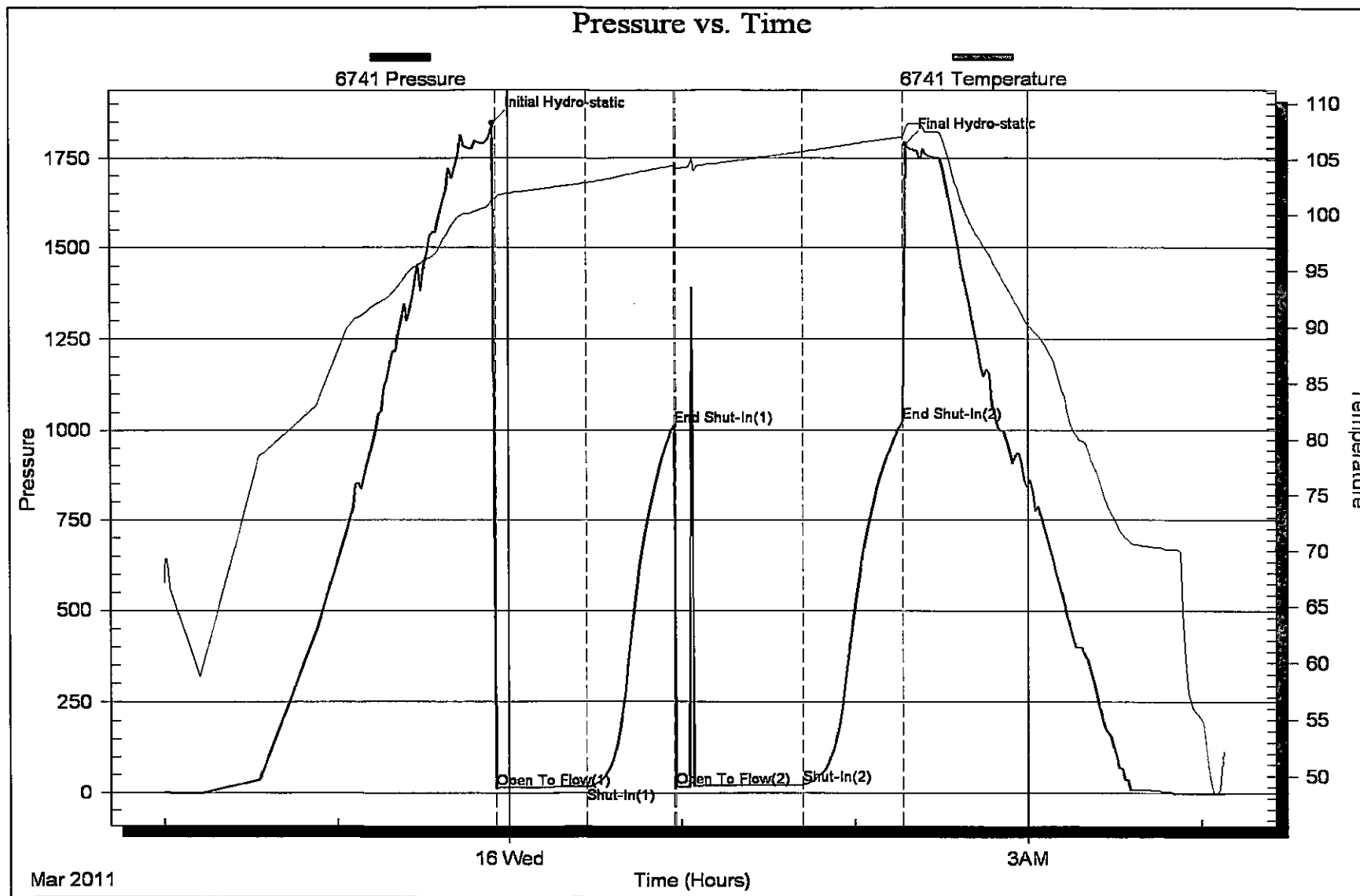
Length ft	Description	Volume bbl
20.00	mud with oil specs	0.281

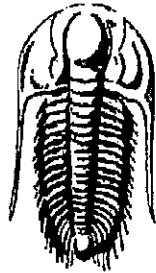
Total Length: 20.00 ft Total Volume: 0.281 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **H&C Oper.**

P.O. Box 86
Plainville KS 67663

ATTN: Marc Downing

15-7-23 Graham, KS

Trexler 15-1

Start Date: 2011.03.16 @ 12:00:00

End Date: 2011.03.16 @ 18:52:30

Job Ticket #: 040749 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

H&C Oper.

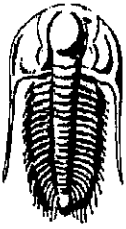
Trexler 15-1

15-7-23 Graham, KS

DST # 3

LKC-J

2011.03.16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H&C Oper.
P.O. Box 86
Plainville KS 67663
ATTN: Marc Dow ning

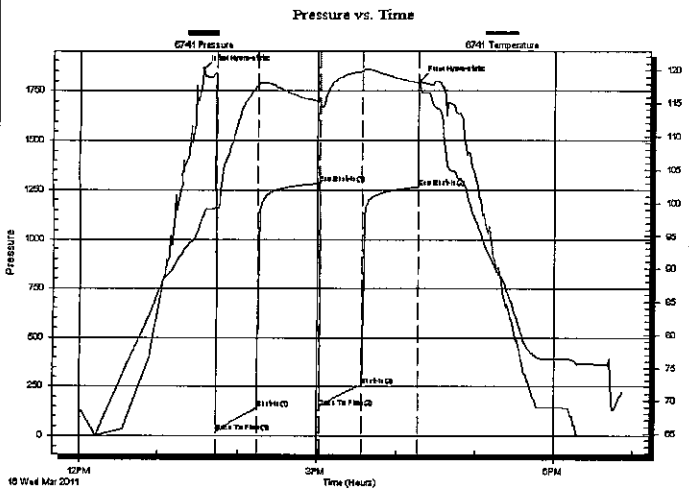
Trexler 15-1
15-7-23 Graham, KS
Job Ticket: 040749 **DST#: 3**
Test Start: 2011.03.16 @ 12:00:00

GENERAL INFORMATION:

Formation: **LKC-J**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: **13:43:30**
Time Test Ended: **18:52:30**
Interval: **3787.00 ft (KB) To 3816.00 ft (KB) (TVD)**
Total Depth: **3816.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole**
Tester: **Chuck Kreutzer Jr.**
Unit No: **36**
Reference Elevations: **2368.00 ft (KB)**
2363.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 6741 **Outside**
Press@RunDepth: **259.15 psig @ 3788.00 ft (KB)**
Capacity: **8000.00 psig**
Start Date: **2011.03.16** End Date: **2011.03.16** Last Calib.: **2011.03.16**
Start Time: **12:00:01** End Time: **18:52:30** Time On Btm: **2011.03.16 @ 13:33:30**
Time Off Btm: **2011.03.16 @ 16:17:30**

TEST COMMENT: IF: Strong blow , built to B.O.B in 8 mins.
IS: Weak blow back after 30 mins. surface
FF: Strong blow , built to B.O.B in 8 mins.
FSI: No blow back over 45 mins.



PRESSURE SUMMARY

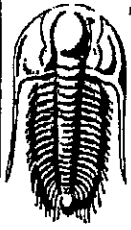
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1859.15	98.11	Initial Hydro-static
10	19.48	99.27	Open To Flow (1)
41	142.87	117.64	Shut-In(1)
88	1284.89	115.32	End Shut-In(1)
89	148.19	114.82	Open To Flow (2)
121	259.15	119.79	Shut-In(2)
163	1266.33	118.13	End Shut-In(2)
164	1803.16	117.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
620.00	mcw -5% m95%w	8.70
186.00	mcw -30% m70%w	2.61
124.00	mcw -40% m60%w	1.74

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oper.
P.O. Box 86
Plainville KS 67663
ATTN: Marc Downing

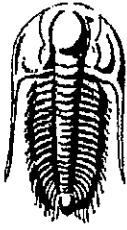
Trexler 15-1
15-7-23 Graham, KS
Job Ticket: 040749 DST#: 3
Test Start: 2011.03.16 @ 12:00:00

Tool Information

Drill Pipe:	Length: 3776.00 ft	Diameter: 3.80 inches	Volume: 52.97 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 49000.00 lb
			<u>Total Volume: 52.97 bbl</u>	Tool Chased 20.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3787.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3772.00	
Hydraulic tool	5.00			3777.00	
Packer	5.00			3782.00	20.00 Bottom Of Top Packer
Packer	5.00			3787.00	
Stubb	1.00			3788.00	
Recorder	0.00	6752	Inside	3788.00	
Recorder	0.00	6741	Outside	3788.00	
Perforations	25.00			3813.00	
Bullnose	3.00			3816.00	29.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oper.
P.O. Box 86
Plainville KS 67663
ATTN: Marc Downing

Trexler 15-1
15-7-23 Graham, KS
Job Ticket: 040749 DST#: 3
Test Start: 2011.03.16 @ 12:00:00

Mud and Cushion Information

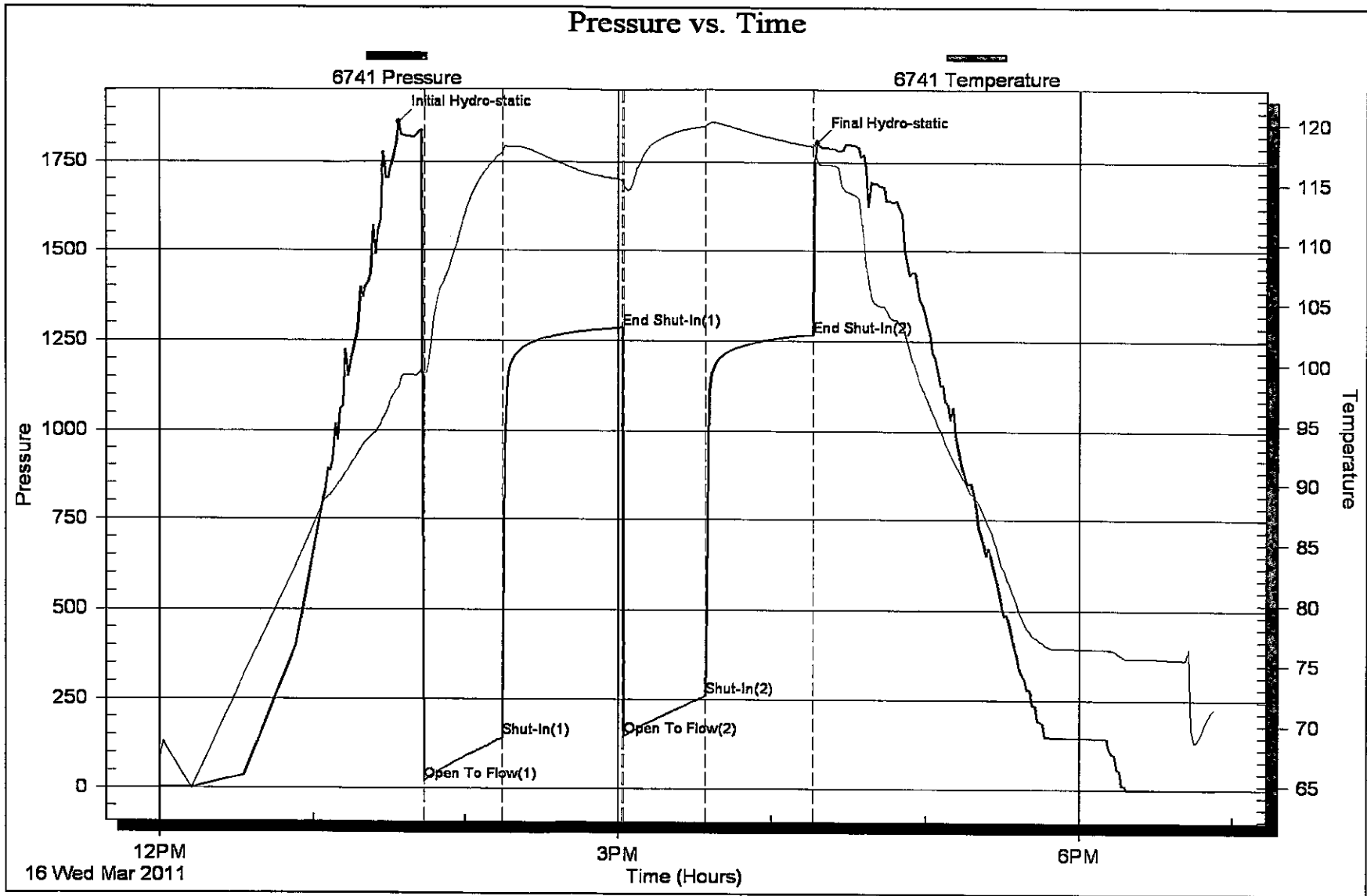
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

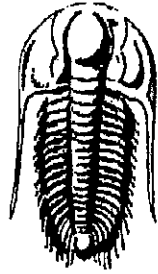
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
620.00	mcw -5% m95%w	8.697
186.00	mcw -30% m70%w	2.609
124.00	mcw -40% m60%w	1.739

Total Length: 930.00 ft Total Volume: 13.045 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **H&C Oper.**

P.O. Box 86
Plainville KS 67663

ATTN: Marc Downing

15-7-23 Graham, KS

Trexler 15-1

Start Date: 2011.03.17 @ 02:00:00

End Date: 2011.03.17 @ 07:45:30

Job Ticket #: 040750 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

H&C Oper.

Trexler 15-1

15-7-23 Graham, KS

DST # 4

LKC-K

2011.03.17



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H&C Oper.
P.O. Box 86
Plainville KS 67663
ATTN: Marc Dow ning

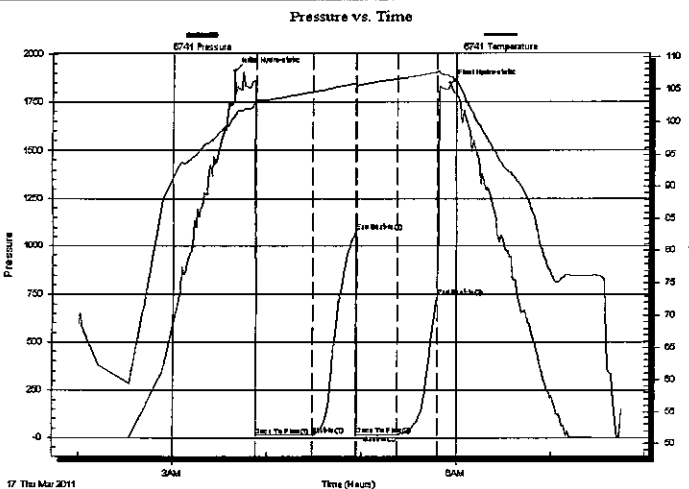
Trexler 15-1
15-7-23 Graham, KS
Job Ticket: 040750 DST#: 4
Test Start: 2011.03.17 @ 02:00:00

GENERAL INFORMATION:

Formation: LKC- K
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:53:00
Time Test Ended: 07:45:30
Interval: 3813.00 ft (KB) To 3840.00 ft (KB) (TVD)
Total Depth: 3840.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Reference Elevations: 2368.00 ft (KB)
2363.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6741 Outside
Press@RunDepth: 16.36 psig @ 3814.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.03.17 End Date: 2011.03.17 Last Calib.: 2011.03.17
Start Time: 02:00:01 End Time: 07:45:30 Time On Btm: 2011.03.17 @ 03:39:00
Time Off Btm: 2011.03.17 @ 05:56:00

TEST COMMENT: IF: Weak blow , Died in 23 mins.
IS: No blow back over 30 mins.
FF: No blow over 30 mins.
FS: No blow back over 30 mins.



PRESSURE SUMMARY

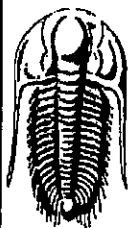
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1909.36	100.92	Initial Hydro-static
14	13.24	103.12	Open To Flow (1)
50	14.55	104.57	Shut-In(1)
78	1080.45	105.87	End Shut-In(1)
78	16.48	105.57	Open To Flow (2)
104	16.36	106.61	Shut-In(2)
129	732.21	107.58	End Shut-In(2)
137	1844.87	106.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud w ith oil specs	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oper.

Trexler 15-1

P.O. Box 86
Plainville KS 67663

15-7-23 Graham, KS

Job Ticket: 040750

DST#: 4

ATTN: Marc Dow ning

Test Start: 2011.03.17 @ 02:00:00

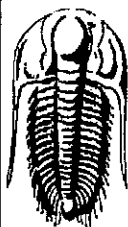
Tool Information

Drill Pipe:	Length: 3807.00 ft	Diameter: 3.80 inches	Volume: 53.40 bbl	Tool Weight: 2000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 42000.00 lb
			<u>Total Volume: 53.40 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3813.00 ft			Final 40000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3798.00	
Hydraulic tool	5.00			3803.00	
Packer	5.00			3808.00	20.00 Bottom Of Top Packer
Packer	5.00			3813.00	
Stubb	1.00			3814.00	
Recorder	0.00	6752	Inside	3814.00	
Recorder	0.00	6741	Outside	3814.00	
Perforations	23.00			3837.00	
Bullnose	3.00			3840.00	27.00 Bottom Packers & Anchor
Total Tool Length:	47.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oper.

Trexler 15-1

P.O. Box 86
Plainville KS 67663

15-7-23 Graham, KS

Job Ticket: 040750

DST#: 4

ATTN: Marc Downing

Test Start: 2011.03.17 @ 02:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 7.98 in³
Resistivity: ohm.m
Salinity: 1500.00 ppm
Filter Cake: 2.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud with oil specs	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

