

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

7/7/12
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 Resources

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 #: _____

5/6/2011 5/13/2011 7/6/2011
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 065-23733-00-00
Spot Description: _____
SE NE NE Sec. 25 Twp. 9 S. R. 25 East West
990 Feet from North / South Line of Section
330 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Graham
Lease Name: North Fork Farms Well #: 25-1
Field Name: Wildcat
Producing Formation: Lansing
Elevation: Ground: 2566 Kelly Bushing: 2571
Total Depth: 4170 Plug Back Total Depth: 4148
Amount of Surface Pipe Set and Cemented at: 263 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2244 Feet
If Alternate II completion, cement circulated from: 2244
feet depth to: surface w/ 400 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: _____
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: 07/07/2011

KCC Office Use ONLY
 Letter of Confidentiality Received
Date: 7/7/11 - 7/7/12
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: [Signature] Date: 7-19-11
RECEIVED
JUL 11 2011
KCC WICHITA

logs: 5-14-11

Operator Name: H & C Oil Operating, Inc. Lease Name: North Fork Farms Well #: 25-1
 Sec. 25 Twp. 9 S. R. 25 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 compensated porosity, microresistivity, dual induction, 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;"> <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>Andhydrite</td> <td>2239</td> <td>+332</td> </tr> <tr> <td>Topeka</td> <td>3644</td> <td>-1073</td> </tr> <tr> <td>Heebner</td> <td>3859</td> <td>-1288</td> </tr> <tr> <td>Toronto</td> <td>3882</td> <td>-1311</td> </tr> <tr> <td>LKC</td> <td>3898</td> <td>-1327</td> </tr> <tr> <td>BKC</td> <td>4128</td> <td>-1557</td> </tr> </tbody> </table>	Name	Top	Datum	Andhydrite	2239	+332	Topeka	3644	-1073	Heebner	3859	-1288	Toronto	3882	-1311	LKC	3898	-1327	BKC	4128	-1557
Name	Top	Datum																				
Andhydrite	2239	+332																				
Topeka	3644	-1073																				
Heebner	3859	-1288																				
Toronto	3882	-1311																				
LKC	3898	-1327																				
BKC	4128	-1557																				

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#	263	common	165	3%cc, 2% gel
production	7 7/8"	5 1/2"	14#	4168	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	2244-surface	QMDC	400	1/4" floeal per sack

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Specify and Kind of Material Used)</i>	Depth
1 SPF	4120	JUL 07 2012	4120
1 SPF	4104	KCC	4104
1 SPF	4086		4086
4 SPF	4080-4087	2500 Gallons 20%	4087
	CIBP-4115, CIBP-4096		

TUBING RECORD: Size: <u>2 3/8"</u> Set At: <u>4008</u> Packer At: <u> </u> Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		RECEIVED JUL 11 2011			
Date of First, Resumed Production, SWD or ENHR. <u>7/7/2011</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) <u>KCC WICHITA</u>				
Estimated Production Per 24 Hours	Oil Bbls. <u>106</u>	Gas Mcf <u>0</u>	Water Bbls. <u>0</u>	Gas-Oil Ratio <u> </u>	Gravity <u>39</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) <u> </u>	PRODUCTION INTERVAL: <u>4080-4087</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. 4828

Date	5-6-11	Sec.	25	Twp.	9	Range	25	County	Chickasaw	State	KS	On Location		Finish	9:00 p.m.
Lease	North Fork Farms			Well No.	25-1			Location	Wasson Rd. 1/2 mile W of 34th St. 1/2 mile S of 25th St.						
Contractor	American Energy							Owner	To Quality Oilwell Cementing, Inc.						
Type Job	Surface							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	12 1/4			T.D.	263			Charge To	H.C.						
Csg.	8 1/8			Depth	263			Street							
Tbg. Size				Depth				City	State						
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor							
Cement Left in Csg.	15'			Shoe Joint				Cement Amount Ordered 16.5 sacks 3 1/2 ccs 2 1/2 gal							
Meas Line				Displace	15 1/2 B.C.										

EQUIPMENT

Pumptrk	1	No.	Cementor	Chris	Common	16.5
			Helper	Mark		
Bulktrk		No.	Driver		Poz. Mix	
Bulktrk	12	No.	Driver	Matthew	Gel.	3
			Driver		Calcium	6

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
3 1/2" bit from EST Circulation	Sand
Min. 100 gal Displace	Handling 174
Cement Circulated!	Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

THANKS

Pumptrk Charge	Surface
Mileage	32

Bradford Baker
Signature

RECEIVED
JUL 11 2011
KCC WICHITA

Discount
Total Charge
JUL 07 2012
KCC

QUALITY OILWELL CEMENTING, INC.

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

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

No. 4641

Date	5-13-11	Sec.	Twp.	Range	County	State	On Location	Finish
Lease	North Fork Farms	Well No.	25-1	Location	Wakenway N to Red Line Rd 10W 3N			5:15 PM
Contractor	American Eagle Rig 3	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	D.V. TOP	T.D.	4170	Charge To	HIC Oil			
Hole Size	7 7/8	Depth	4147	Street				
Csg.	5 1/2 14lb	Depth		City	State			
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.				
Tool D.V.	# 410	Depth	2251	Cement Amount Ordered	400 Q-MDC 4/8 Flt Seal			
Cement Left in Csg.		Shoe Joint						
Meas Line		Displace	55 Bbl					

EQUIPMENT

Pumptrk	5	No.	Cementer	Common	400 Q-MDC
			Helper		
Bulktrk	7	No.	Driver	Poz. Mix	
			Driver		
Bulktrk		No.	Driver	Gel.	
			Driver		

JOB SERVICES & REMARKS

Remarks:	Calcium
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal 100 #
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
30sx Red Hde	CFL-117 or CD110 CAF 38
Mix 400 sx Q-MDC Release plug	Sand
Displace 55 Bbl	Handling 400
Land plug @ 1800 psi & close D.V.	Mileage
Tool	

FLOAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down

Cannot did Circulate

Thank You

X Signature *Chris Ramsey*

Pumptrk Charge	press long string Top Stage
Mileage	NC
Tax	

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JUL 11 2011
Total Charge JUL 07 2012

KCC WICHITA KCC

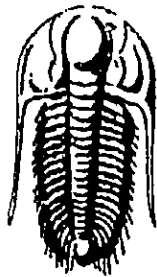
QUALITY OILWELL CEMENTING, INC.

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

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

No. 4640

Date	5-13-11	Sec.	Twp.	Range	County	State	On Location	Finish	
Lease	North Fork Farms	Well No.	25-1	Location					Wakeney N. to Redline Rd 10W 3N
Contractor	American Eagle Rig 3	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	2 Stage - Bottom	Hole Size	7 7/8	T.D.	4170	Charge To	M9C Oil		
Csg.	5 1/2 14b	Tbg. Size		Depth	4167	Street			
Tool	D.V # 416	Depth	2251	City		State			
Cement Left in Csg.	20'	Shoe Joint	20'	The above was done to satisfaction and supervision of owner agent or contractor.					
Meas Line		Displace	101 1/2 Bbl	Cement Amount Ordered		210 Common 10 1/2 Seal			
EQUIPMENT				5 1/2 bbls rate 500 gal Mud Clean - 48					
Pumptrk	5	No.		Cementer	Star	Helper	Star	Common	
Bulktrk	8	No.		Driver	Blanton	Driver		Poz. Mix	
Bulktrk		No.		Driver	Cole	Driver		Gel.	
JOB SERVICES & REMARKS				Calcium					
Remarks:				Hulls					
Rat Hole				Salt 18					
Mouse Hole				Flowseal 100#					
Centralizers	2, 3, 4, 5, 6, 8, 51, 54, 79, 83			Kol-Seal 1050 #					
Baskets	1, 45, 47, 52, 51			Mud CLR 48 500 gal					
D/V or Port Collar				CFL-117 or CD110 CAF 38					
Pump	500 gal Mud Clean - 48			Sand					
Mix	210sr Release plug			Handling 228					
Displace	bbl H ₂ O followed by bbl mud			Mileage					
				FLOAT EQUIPMENT					
				Guide Shoe					
Land plug @ 1300psi				Centralizer 10 Tubos					
Float held				Baskets 5					
				AFU Inserts					
				Float Shoe 1					
				Latch Down					
				D.V. Tool w/ latch down Assy					
				Pumptrk Charge prod long string Bottom Stage					
				Mileage 37					
				Tax					
				Discount					
Signature <i>Chuck Ramsey</i>				CONFIDENTIAL					
				JUL 07 2012					
				KCC					
				RECEIVED					
				JUL 11 2011					
				KCC WICHITA					



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

PO Box 86
Plainville, KS 67663

ATTN: Marc Downing

25-9s-25w Graham,KS

North Fork Farms #25-1

Start Date: 2011.05.10 @ 17:50:42

End Date: 2011.05.11 @ 01:28:27

Job Ticket #: 42388 DST #: 1

CONFIDENTIAL

JUL 07 2012

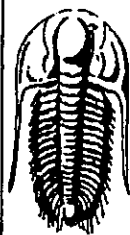
KCC

RECEIVED

JUL 11 2011

KCC WICHITA

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.

North Fork Farms #25-1

PO Box 86
Plainville, KS 67663

25-9s-25w Graham, KS

Job Ticket: 42388

DST#: 1

ATTN: Marc Downing

Test Start: 2011.05.10 @ 17:50:42

GENERAL INFORMATION:

Formation: **Lansing "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:32:12

Time Test Ended: 01:28:27

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 54

Interval: **3917.00 ft (KB) To 3936.00 ft (KB) (TVD)**

Reference Elevations: 2571.00 ft (KB)

Total Depth: 3936.00 ft (KB) (TVD)

2566.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: **6755**

Inside

Press@RunDepth: 455.09 psig @ 3920.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.10

End Date:

2011.05.11

Last Calib.: 2011.05.11

Start Time: 17:50:44

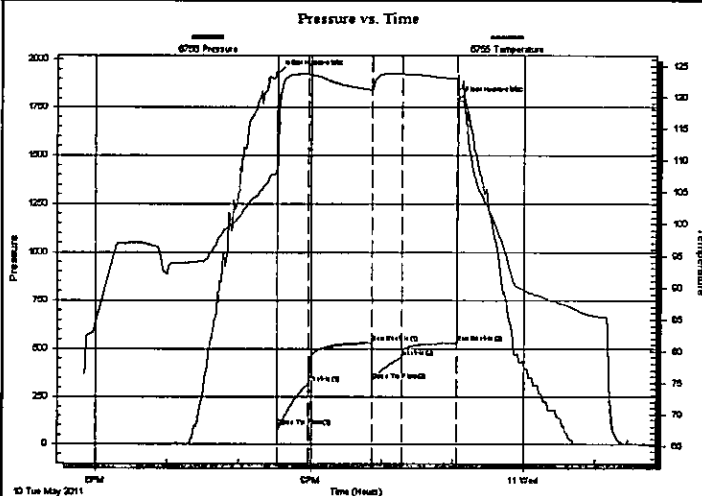
End Time:

01:28:27

Time On Btrr: 2011.05.10 @ 20:31:57

Time Off Btrr: 2011.05.10 @ 23:03:42

TEST COMMENT: IFF-Strong, BOB in 2 Min.
ISI-Blow back Built to BOB in 40 Min.
FFP-Strong, BOB in 4 Min.
FSI-Blow back Built to 8"



PRESSURE SUMMARY

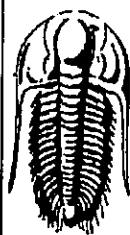
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1926.05	108.49	Initial Hydro-static
1	92.17	107.95	Open To Flow (1)
26	322.07	123.67	Shut-In (1)
80	531.09	121.28	End Shut-In (1)
81	336.62	121.22	Open To Flow (2)
106	455.09	123.70	Shut-In (2)
152	531.44	122.84	End Shut-In (2)
152	1791.59	123.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
860.00	Muddy Water-95%W-5%M	12.06
100.00	Free Oil	1.40
0.00	420' Gas In Pipe	0.00

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mc/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating, Inc.

North Fork Farms #25-1

PO Box 86
Plainville, KS 67663

25-9s-25w Graham,KS

Job Ticket: 42388

DST#: 1

ATTN: Marc Downing

Test Start: 2011.05.10 @ 17:50:42

Tool Information

Drill Pipe:	Length: 3905.00 ft	Diameter: 3.80 inches	Volume: 54.78 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 54.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3917.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 8.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3897.00	
Shut In Tool	5.00			3902.00	
Hydraulic tool	5.00			3907.00	
Packer	5.00			3912.00	21.00 Bottom Of Top Packer
Packer	5.00			3917.00	
Stubb	1.00			3918.00	
Perforations	2.00			3920.00	
Recorder	0.00	6755	Inside	3920.00	
Recorder	0.00	8673	Outside	3920.00	
Perforations	13.00			3933.00	
Bullnose	3.00			3936.00	19.00 Bottom Packers & Anchor

Total Tool Length: 40.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc.

North Fork Farms #25-1

PO Box 86
Plainville, KS 67663

25-9s-25w Graham, KS

Job Ticket: 42388

DST#: 1

ATTN: Marc Downing

Test Start: 2011.05.10 @ 17:50:42

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

82000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
860.00	Muddy Water-95%W-5%M	12.064
100.00	Free Oil	1.403
0.00	420' Gas In Pipe	0.000

Total Length: 960.00 ft

Total Volume: 13.467 bbl

Num Fluid Samples: 0

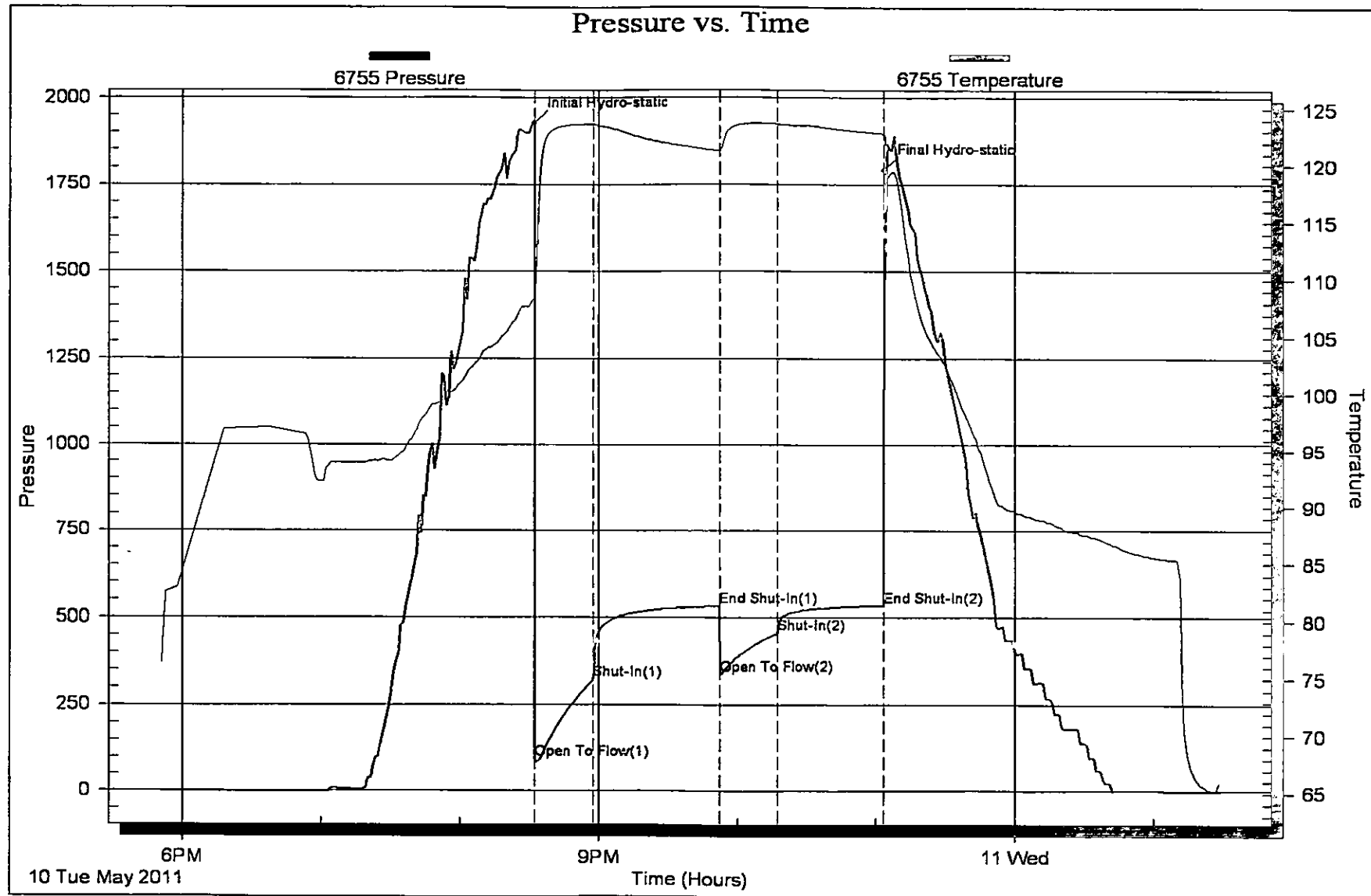
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

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

PO Box 86
Plainville, KS 67663

ATTN: Marc Downing

25-9s-25w Graham,KS

North Fork Farms #25-1

Start Date: 2011.05.11 @ 08:23:52

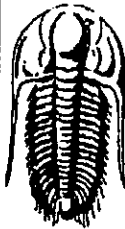
End Date: 2011.05.11 @ 14:46:07

Job Ticket #: 42389 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRIBOLITE
TESTING, INC**

DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

North Fork Farms #25-1

PO Box 86
Plainville, KS 67663

25-9s-25w Graham,KS

Job Ticket: 42389

DST#: 2

ATTN: Marc Downing

Test Start: 2011.05.11 @ 08:23:52

GENERAL INFORMATION:

Formation: **Lansing "D"**

Deviated: No Whipstock ft (KB)

Time Tool Opened: 10:21:37

Time Test Ended: 14:46:07

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 54

Interval: 3937.00 ft (KB) To 3963.00 ft (KB) (TVD)

Total Depth: 3963.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2571.00 ft (KB)

2566.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6755

Inside

Press@RunDepth: 246.80 psig @ 3940.00 ft (KB)

Start Date: 2011.05.11

End Date:

2011.05.11

Start Time: 08:23:54

End Time:

14:46:07

Capacity: 8000.00 psig

Last Calib.: 2011.05.11

Time On Btm: 2011.05.11 @ 10:21:07

Time Off Btm: 2011.05.11 @ 12:25:07

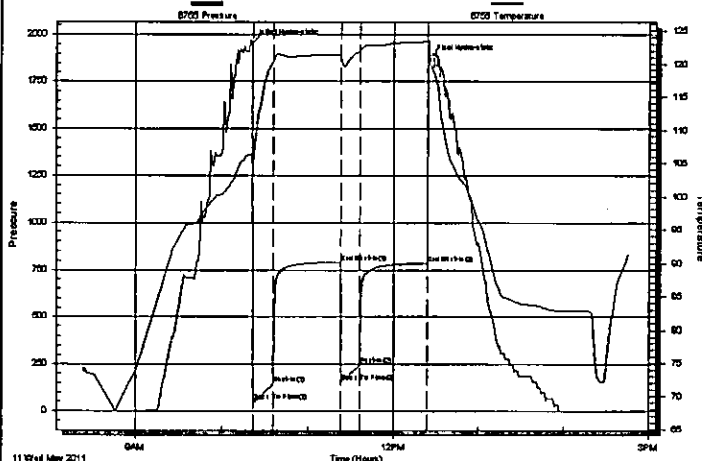
TEST COMMENT: IFP-Strong,BOB in 47 Seconds

ISI-Blow back BOB in 8 Mn.

FFP-Strong,BOB in 2-1/2 Mn.

FSI-Blow back BOB in 7 Mn.

Pressure vs. Time



PRESSURE SUMMARY

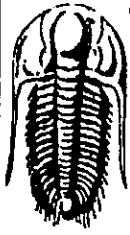
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1955.91	106.29	Initial Hydro-static
1	51.63	105.08	Open To Flow (1)
15	144.03	120.40	Shut-In(1)
62	788.49	121.40	End Shut-In(1)
63	154.96	120.97	Open To Flow (2)
76	246.80	121.98	Shut-In(2)
123	785.59	123.36	End Shut-In(2)
124	1874.65	122.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Muddy Water-70%W-30%M	0.84
60.00	OCMW-25%O-15%W-60%M	0.84
495.00	Free Oil	6.94
0.00	3100' Gas In Pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating, Inc.

North Fork Farms #25-1

PO Box 86
Plainville, KS 67663

25-9s-25w Graham,KS

Job Ticket: 42389

DST#: 2

ATTN: Marc Downing

Test Start: 2011.05.11 @ 08:23:52

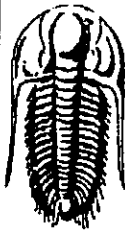
Tool Information

Drill Pipe:	Length: 3937.00 ft	Diameter: 3.80 inches	Volume: 55.23 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 55.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3937.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 8.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3917.00	
Shut In Tool	5.00			3922.00	
Hydraulic tool	5.00			3927.00	
Packer	5.00			3932.00	21.00 Bottom Of Top Packer
Packer	5.00			3937.00	
Stubb	1.00			3938.00	
Perforations	2.00			3940.00	
Recorder	0.00	6755	Inside	3940.00	
Recorder	0.00	8673	Outside	3940.00	
Perforations	20.00			3960.00	
Bullnose	3.00			3963.00	26.00 Bottom Packers & Anchor

Total Tool Length: 47.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc.

North Fork Farms #25-1

PO Box 86
Plainville, KS 67663

25-9s-25w Graham, KS

Job Ticket: 42389

DST#: 2

ATTN: Marc Downing

Test Start: 2011.05.11 @ 08:23:52

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 7.97 in³
Resistivity: ohm.m
Salinity: 1000.00 ppm
Filter Cake: inches

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

Oil API: 39 deg API
Water Salinity: 60000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Muddy Water-70%W-30%M	0.842
60.00	OCMV-25%O-15%W-60%M	0.842
495.00	Free Oil	6.944
0.00	3100' Gas In Pipe	0.000

Total Length: 615.00 ft Total Volume: 8.628 bbl

Num Fluid Samples: 0

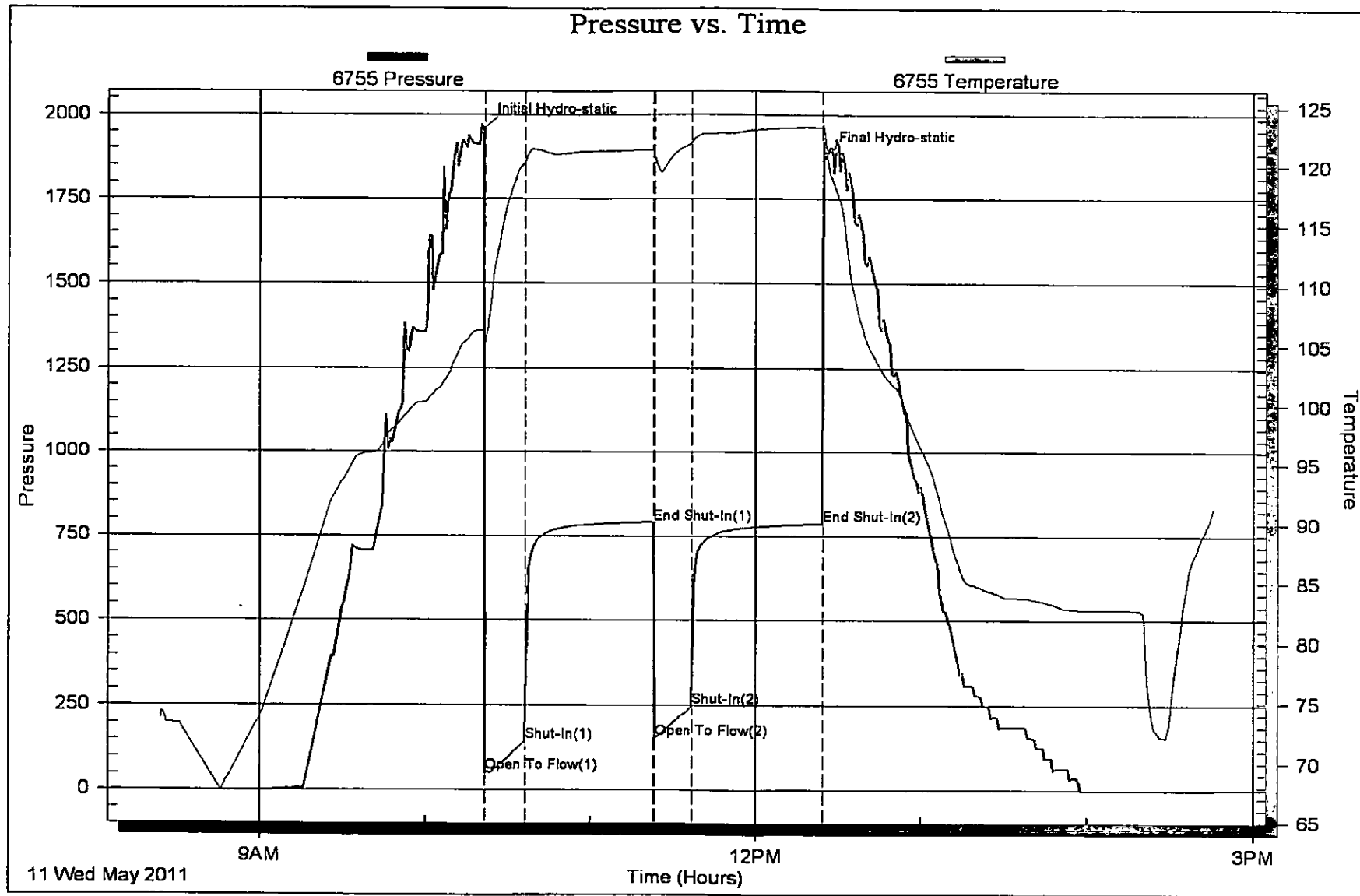
Num Gas Bombs: 0

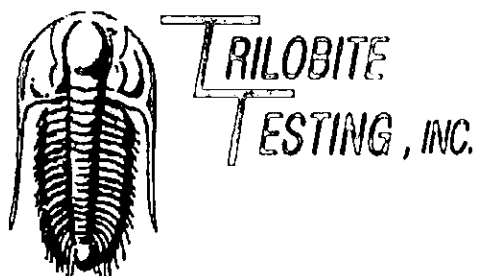
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

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

PO Box 86
Plainville, KS 67663

ATTN: Marc Downing

25-9s-25w Graham,KS

North Fork Farms #25-1

Start Date: 2011.05.12 @ 05:26:59

End Date: 2011.05.12 @ 12:13:44

Job Ticket #: 42390 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

H&C Oil Operating, Inc.

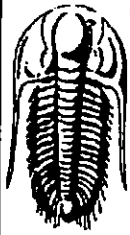
North Fork Farms #25-1

25-9s-25w Graham,KS

DST # 3

LKC "LJ"

2011.05.12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

North Fork Farms #25-1

PO Box 86
Rainville, KS 67663

25-9s-25w Graham, KS

Job Ticket: 42390

DST#: 3

ATTN: Marc Downing

Test Start: 2011.05.12 @ 05:26:59

GENERAL INFORMATION:

Formation: **LKC "I-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:19:29

Time Test Ended: 12:13:44

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 54

Interval: **4046.00 ft (KB) To 4092.00 ft (KB) (TVD)**

Reference Elevations: 2571.00 ft (KB)

Total Depth: 4092.00 ft (KB) (TVD)

2566.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: **8673**

Inside

Press@RunDepth: 284.74 psig @ 4081.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.12

End Date:

2011.05.12

Last Calib.: 2011.05.12

Start Time: 05:27:01

End Time:

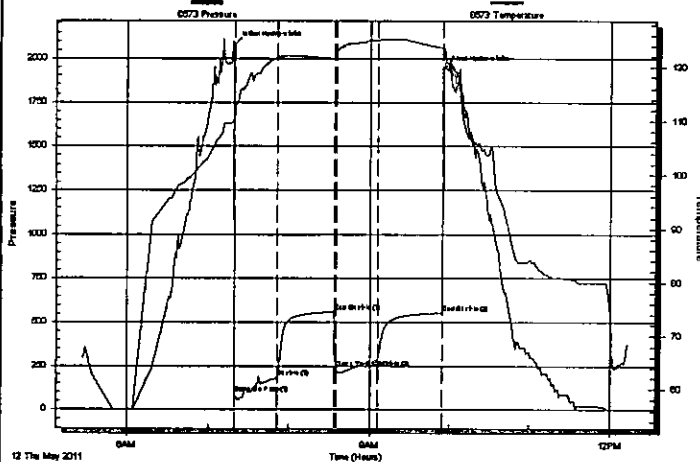
12:13:44

Time On Btrm: 2011.05.12 @ 07:19:14

Time Off Btrm: 2011.05.12 @ 09:55:14

TEST COMMENT: IFF-Strong, BOB in 2 Mn.
IS-Blow back BOB in 8 Mn.
FFP-Strong, BOB in 3-1/2 Mn.
FSI-Blow back BOB in 11 Mn.

Pressure vs. Time



PRESSURE SUMMARY

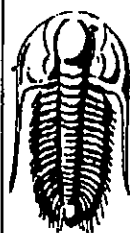
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2076.80	110.37	Initial Hydro-static
1	90.32	109.60	Open To Flow (1)
32	181.59	121.90	Shut-In(1)
75	561.63	121.67	End Shut-In(1)
76	238.26	122.66	Open To Flow (2)
107	284.74	125.07	Shut-In(2)
156	554.57	123.68	End Shut-In(2)
156	1937.75	124.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
420.00	Gassy Muddy Oil-40%G-50%O-10%M	5.89
285.00	Free Oil	4.00
0.00	2295' Gas In Pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating, Inc.

North Fork Farms #25-1

PO Box 86
Plainville, KS 67663

25-9s-25w Graham, KS

Job Ticket: 42390 DST#: 3

ATTN: Marc Downing

Test Start: 2011.05.12 @ 05:26:59

Tool Information

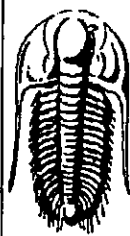
Drill Pipe:	Length: 4034.00 ft	Diameter: 3.80 inches	Volume: 56.59 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 56.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	4046.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	67.00 ft			
Number of Packers:	2	Diameter: 8.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4026.00	
Shut In Tool	5.00			4031.00	
Hydraulic tool	5.00			4036.00	
Packer	5.00			4041.00	21.00 Bottom Of Top Packer
Packer	5.00			4046.00	
Stubb	1.00			4047.00	
Perforations	1.00			4048.00	
Change Over Sub	1.00			4049.00	
Blank Spacing	31.00			4080.00	
Change Over Sub	1.00			4081.00	
Recorder	0.00	8673	Inside	4081.00	
Recorder	0.00	6755	Outside	4081.00	
Perforations	8.00			4089.00	
Bullnose	3.00			4092.00	46.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc.

North Fork Farms #25-1

PO Box 86
Plainville, KS 67663

25-9s-25w Graham,KS

ATTN: Marc Downing

Job Ticket: 42390 DST#: 3

Test Start: 2011.05.12 @ 05:26:59

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	41 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: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
420.00	Gassy Muddy Oil-40%G-50%O-10%M	5.891
285.00	Free Oil	3.998
0.00	2295' Gas In Pipe	0.000

Total Length: 705.00 ft Total Volume: 9.889 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

