

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
October 2008
Form Must Be Typed

1/7/13

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE
KCC

OPERATOR: License # 4767
Name: Ritchie Exploration, Inc.
Address 1: P.O. Box 783188
Address 2: _____
City: Wichita State: KS Zip: 67278 + 3118
Contact Person: Peter Fiorini
Phone: (316) 691-9500
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Mike Engelbrecht
Purchaser: _____

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Designate Type of Completion:
 New Well _____ Re-Entry _____ Workover _____
_____ Oil _____ SWD _____ SLOW
_____ Gas _____ ENHR _____ SIGW
_____ CM (Coal Bed Methane) _____ Temp. Abd.
 Dry _____ Other _____
(Core, WSW, Expl., Cathodic, 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
_____ Plug Back: _____ Plug Back Total Depth _____
_____ Commingled _____ Docket No.: _____
_____ Dual Completion _____ Docket No.: _____
_____ Other (SWD or Enhr.?) _____ Docket No.: _____
9/21/10 10/3/10 10/3/10
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 057-20696-0000
Spot Description: 55' S & 110' W
SW -SW - - - Sec. 24 Twp. 25 S. R. 21 East West
605 Feet from North / South Line of Section
550 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Ford
Lease Name: Weiss 24C Well #: 1
Field Name: _____
Producing Formation: _____
Elevation: Ground: 4872 Kelly Bushing: 2306
Total Depth: 4872 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 330 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: _____
feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan PAN 1-19-11
(Data must be collected from the Reserve Pit)
Chloride content: 15000 ppm Fluid volume: 1200 bbls
Dewatering method used: evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

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.

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: _____
Title: Development/Production Geologist Date: 1/7/11
Subscribed and sworn to before me this 7th day of January,
20 11.
Notary Public: Debra K. Phillips
Date Commission Expires: 5-4-11

KCC Office Use ONLY
 Letter of Confidentiality Received 1/7/11 - 1/7/13
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
_____ UIC Distribution

DEBRA K. PHILLIPS
Notary Public - State of Kansas
My Appt. Expires 5-4-11

Operator Name: Ritchie Exploration, Inc. Lease Name: Weiss 24C Well #: 1.
 Sec. 24 Twp. 25 S. R. 21 East West County: Ford

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 copy of all Electric Wireline 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 <i>(Submit Copy)</i> List All E. Logs Run: Dual Induction Log Compensated Density/Neutron Log	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample Name Top Datum SEE ATTACHED <div style="text-align: right; font-weight: bold; font-size: 1.2em;"> KCC JAN 07 2011 CONFIDENTIAL </div>
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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	330	common	200	3%cc, 2%gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

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

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TUBING RECORD:		Size:	Set At:	Packer At:	Liner Run:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr.			Producing Method:			
			<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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#1 Weiss 24C
605' FSL & 550' FWL
55' S & 110' W of SW SW Section 24-25S-21W
Ford County, Kansas
API# 15-057-20696-0000
Elevation: GL: 2294', KB: 2306'

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<u>Sample Tops</u>			<u>Ref.</u>	<u>Well</u>
Anhydrite	1409'	+897	-4	
B/Anhydrite	1421'	+885	-5	
Heebner	4034'	-1728	-12	
Brown Lm	4141'	-1835	-9	
Lansing	4150'	-1844	-8	
Lansing "C"	4184'	-1878	-11	
Muncie Shale	4298'	-1992	-11	
Hush. Shale	4455'	-2149	-10	
BKC	4510'	-2204	-13	
Altamont	4553'	-2247	-12	
Fort Scott	4667'	-2361	-13	
Upper Cherokee	4682'	-2376	-15	
Lower Cherokee	4714'	-2408	-11	
Atoka Shale	4748'	-2442	-15	
Miss Warsaw	4779'	-2473	-11	
Osage	4807'	-2501	-15	
RTD	4872'	-2566		

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ALLIED CEMENTING CO., LLC. 30826

KCC

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SERVICE POINT:

Liberal K.S.

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

DATE <u>10/03/10</u>	SEC <u>24</u>	TWP. <u>25S</u>	RANGE <u>21W</u>	CALL <u>CONFIDENTIAL</u>	ON LOCATION	JOB START <u>2:00PM</u>	JOB FINISH <u>2:30 PM</u>
LEASE <u>Weiss</u>	WELL # <u>024C</u>	LOCATION <u>Vec</u>	<u>Offerte K.S.</u>	COUNTY <u>Ford</u>	STATE <u>K.S.</u>		
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR Duke Rig #1

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. _____

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE @ 4 1/2 @ _____ DEPTH 1460

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

EQUIPMENT

PUMP TRUCK CEMENTER Kenny

470-487 HELPER Jose

BULK TRUCK

457-251 DRIVER David

BULK TRUCK

_____ DRIVER _____

OWNER

CEMENT

AMOUNT ORDERED 240^{SK} 60/40 +

4% gel + .25 Floseal

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

Light Weight 240 @ 14.05 3372.00

Floseal 60 @ 2.50 150.00

HANDLING 242 @ 2.40 580.80

MILEAGE _____ @ _____ 1452.00

TOTAL 5554.80

REMARKS:

First Plug @ 1460^f + 50^{SK}

2nd Plug @ 750^f + 70^{SK}

3rd Plug @ 360^f + 50^{SK}

Top @ 60^f + with 20^{SK}

Rat Hole = 30^{SK} Mouse Hole = 20^{SK}

CHARGE TO: Ritchie Exp

STREET _____

CITY _____ STATE _____ ZIP _____

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PLUG & FLOAT EQUIPMENT

N/A

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL 0

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 [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES [Redacted]

DISCOUNT [Redacted] IF PAID IN 30 DAYS

[Signature]

ALLIED CEMENTING CO., LLC. 042209

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

SERVICE POINT:
Medicine Lodge KS

DATE <i>09/21/10</i>	SEC <i>24</i>	TWP <i>25S</i>	RANGE <i>21W</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <i>2:15 AM</i>
LEASE <i>Weiss</i>	WELL# <i>1-24c</i>	LOCATION <i>off road, KS, 1/2 W, 2 S E/S</i>			COUNTY <i>FORD</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one)							

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CONTRACTOR *Duke #1*

TYPE OF JOB *Surface*

HOLE SIZE *12 1/4* T.D. *332*

CASING SIZE *8 5/8* DEPTH *332*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX *300* MINIMUM *—*

MEAS. LINE SHOE JOINT *38*

CEMENT LEFT IN CSG. *38/20*

PERFS. *10/10/10/10/10/10*

DISPLACEMENT *19 1/4 Bbls Fresh H₂O*

EQUIPMENT

OWNER *Ritchie*

CEMENT

AMOUNT ORDERED *200 sx class "A" + 3%acc + 2%gel*

COMMON	<i>A 200 sx @</i>	<i>15.45</i>	<i>3090.00</i>
POZMIX			
GEL	<i>4 sx @</i>	<i>20.80</i>	<i>83.20</i>
CHLORIDE	<i>7 sx @</i>	<i>58.20</i>	<i>407.40</i>
ASC			
HANDLING	<i>211</i>	<i>@ 2.40</i>	<i>506.40</i>
MILEAGE	<i>211.10/50</i>		<i>1055.00</i>
			TOTAL <i>5142.00</i>

PUMP TRUCK CEMENTER *D. Felio*

360-265 HELPER *M. Thiemesch*

BULK TRUCK

381-290 DRIVER *D. Felio*

BULK TRUCK

408 DRIVER *David Prieto*

REMARKS:

Pipe on Btm, Break Circ, Pump Spacers, Mix 200sx "A" + 3%acc + 2%gel, Stop Pump, Release Plug, Start Disposal Fresh H₂O, See increase in PSI, slow Rate, at 15 Bbls, Bump Plug at 19 1/4 Bbls total Disp, Shut in, Cement Did Circ.

SERVICE

DEPTH OF JOB	<i>332</i>		
PUMP TRUCK CHARGE	<i>1018.00</i>		
EXTRA FOOTAGE	<i>32 @</i>	<i>285</i>	<i>9120.00</i>
MILEAGE	<i>50 @</i>	<i>7.00</i>	<i>350.00</i>
MANIFOLD	<i>Head Rental</i>		

CHARGE TO: *Ritchie Explo.* RECEIVED

STREET _____

CITY _____ STATE _____ ZIP _____

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TOTAL *1395.20*

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PLUG & FLOAT EQUIPMENT

<i>1-TRP</i>	@	<i>113.00</i>
<i>1-Baffle Plate</i>	@	<i>68.00</i>
	@	
	@	
	@	

TOTAL *181.00*

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.

SALES TAX (If Any) _____

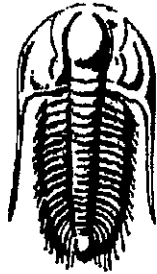
TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME *Mike Godfrey*

SIGNATURE *Mike Godfrey*

Handwritten mark



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration, Inc.**

8100 E. 22nd St N. #700
Box 783188
Wichita, KS 67278-3188

ATTN: Mike Engelbrecht

24-25s-21w Ford,KS

Weiss 24C #1

Start Date: 2010.09.27 @ 03:35:00

End Date: 2010.09.27 @ 11:35:09

Job Ticket #: 39456 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

Ritchie Exploration, Inc.

Weiss 24C #1

24-25s-21w Ford,KS

DST # 1

Lansing

2010.09.27



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration, Inc.
8100 E. 22nd St N. #700
Box 783188
Wichita, KS 67278-3188
ATTN: Mike Engelbrecht

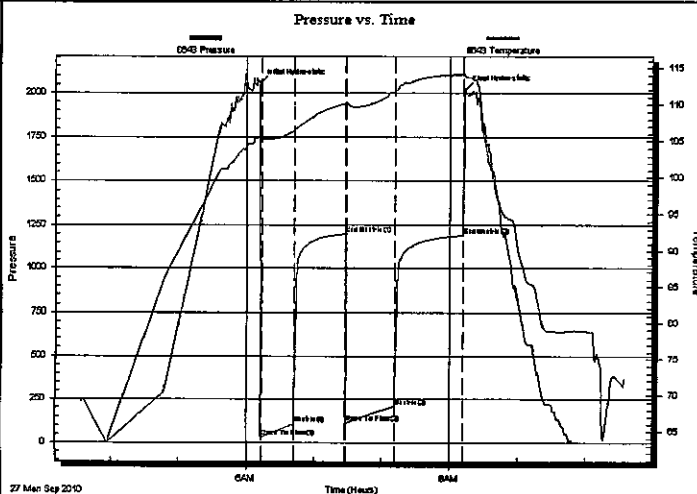
Weiss 24C #1
24-25s-21w Ford,KS
Job Ticket: 39456 DST#: 1
Test Start: 2010.09.27 @ 03:35:00

GENERAL INFORMATION:

Formation: Lansing	Test Type: Conventional Bottom Hole
Deviated: No Whipstock: ft (KB)	Tester: Jake Fahrenbruch
Time Tool Opened: 06:13:30	Unit No: 43
Time Test Ended: 11:35:09	Reference Elevations: 2306.00 ft (KB)
Interval: 4150.00 ft (KB) To 4205.00 ft (KB) (TVD)	2294.00 ft (CF)
Total Depth: 4205.00 ft (KB) (TVD)	KB to GR/CF: 12.00 ft
Hole Diameter: 7.88 inches Hole Condition: Good	

Serial #: 8648	Inside	Capacity: 8000.00 psig
Press@RunDepth: 207.83 psig @ 4162.00 ft (KB)		Last Calib.: 2010.09.27
Start Date: 2010.09.27	End Date: 2010.09.27	Time On Btm: 2010.09.27 @ 06:11:50
Start Time: 03:35:05	End Time: 11:35:10	Time Off Btm: 2010.09.27 @ 09:13:30

TEST COMMENT: IF: Strong blow, BOB 3 minutes.
 IS: Bled off, weak surface blow back.
 FF: Strong blow, BOB 8 minutes.
 FS: Bled off, blow back built to BOB in 50 minutes.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2056.01	105.68	Initial Hydro-static
2	33.09	105.39	Open To Flow (1)
30	107.07	106.45	Shut-In(1)
77	1201.56	110.17	End Shut-In(1)
77	112.78	109.94	Open To Flow (2)
121	207.83	111.81	Shut-In(2)
181	1191.02	114.10	End Shut-In(2)
182	2019.86	113.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	GOWCM 10%g 10%o 10%w 70% m	0.63
65.00	VHGCWCOM 50%g 5%w 20%o 25% m	0.91
65.00	G&WCMO 10%g 15%w 30% m 45% o	0.91
250.00	SMCW 5% m 95% w	3.51
0.00	1575' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration, Inc.
8100 E. 22nd St N. #700
Box 783188
Wichita, KS 67278-3188
ATTN: Mike Engelbrecht

Weiss 24C #1
24-25s-21w Ford,KS
Job Ticket: 39456 **DST#: 1**
Test Start: 2010.09.27 @ 03:35:00

Tool Information

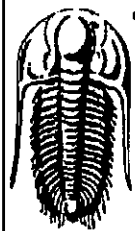
Drill Pipe:	Length: 4141.00 ft	Diameter: 3.80 inches	Volume: 58.09 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
		Total Volume:	58.09 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4150.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	75.00 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			4135.00	
Hydraulic tool	5.00			4140.00	
Packer	5.00			4145.00	20.00 Bottom Of Top Packer
Packer	5.00			4150.00	
Stubb	1.00			4151.00	
Perforations	11.00			4162.00	
Recorder	0.00	8648	Inside	4162.00	
Recorder	0.00	6799	Inside	4162.00	
Blank Spacing	33.00			4195.00	
Perforations	5.00			4200.00	
Bullnose	5.00			4205.00	55.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration, Inc.
8100 E 22nd St N. #700
Box 783188
Wichita, KS 67278-3188
ATTN: Mike Engelbrecht

Weiss 24C #1
24-25s-21w Ford,KS
Job Ticket: 39456 DST#: 1
Test Start: 2010.09.27 @ 03:35:00

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:	66000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.15 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5700.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

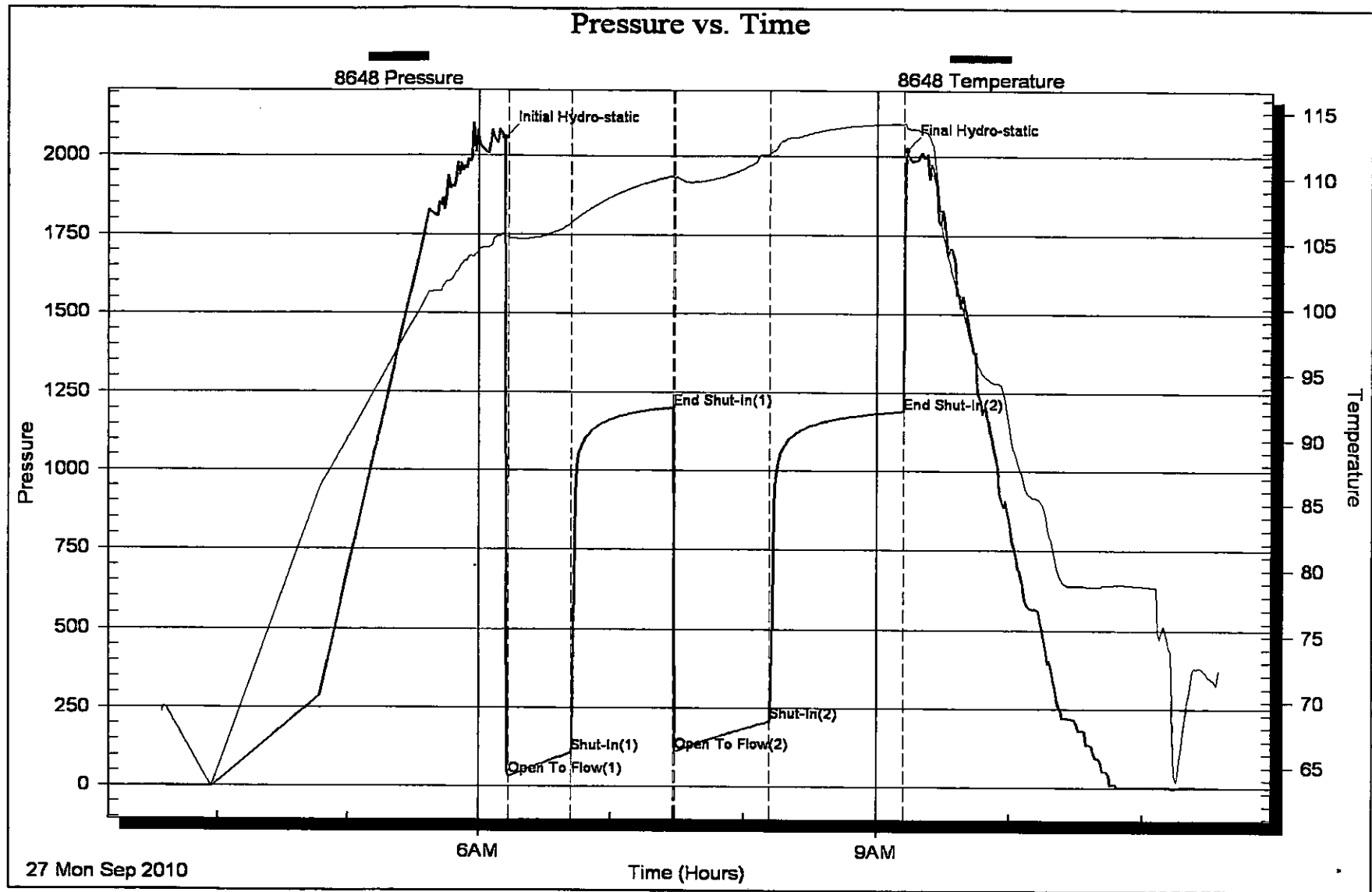
Length ft	Description	Volume bbl
45.00	GOWCM 10%g 10%o 10%w 70%m	0.631
65.00	VHGCWCOM 50%g 5%w 20%o 25%m	0.912
65.00	G&WCMO 10%g 15%w 30%m 45%o	0.912
250.00	SMCW 5%m 95%w	3.507
0.00	1575' GIP	0.000

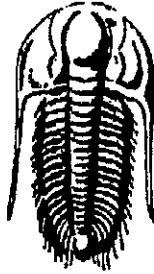
Total Length: 425.00 ft Total Volume: 5.962 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW= .12 @ 68 deg F





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration, Inc.**

8100 E. 22nd St N. #700
Box 783188
Wichita, KS 67278-3188

ATTN: Mike Engelbrecht

24-25s-21w Ford,KS

Weiss 24C #1

Start Date: 2010.09.29 @ 09:34:22

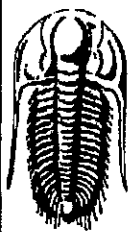
End Date: 2010.09.29 @ 15:35:37

Job Ticket #: 38810 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

Ritchie Exploration, Inc.
8100 E. 22nd St N. #700
Box 783188
Wichita, KS 67278-3188
ATTN: Mike Engelbrecht

Weiss 24C #1
24-25s-21w Ford,KS
Job Ticket: 38810 **DST#: 2**
Test Start: 2010.09.29 @ 09:34:22

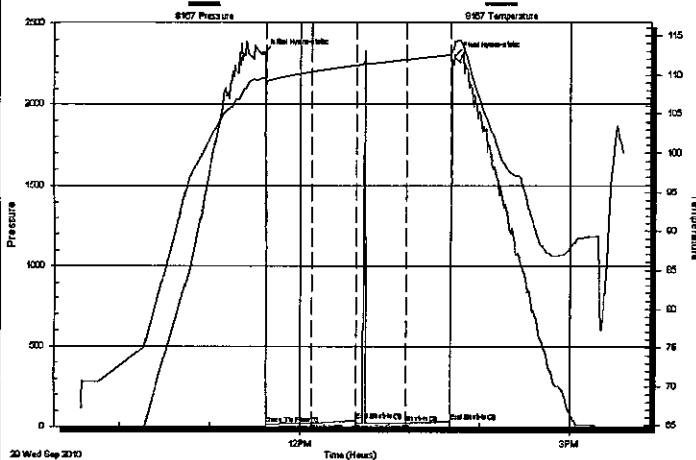
GENERAL INFORMATION:

Formation: Ft.Scott / Cherokee
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:37:22
Time Test Ended: 15:35:37
Interval: 4650.00 ft (KB) To 4750.00 ft (KB) (TVD)
Total Depth: 4750.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Gary Pevoteaux
Unit No: 39
Reference Elevations: 2306.00 ft (KB)
2294.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8167 Inside
Press@RunDepth: 24.47 psig @ 4651.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.09.29 End Date: 2010.09.29 Last Calib.: 2010.09.29
Start Time: 09:34:27 End Time: 15:35:36 Time On Btm: 2010.09.29 @ 11:35:22
Time Off Btm: 2010.09.29 @ 13:43:07

TEST COMMENT: IF:Weak blow . Dead in 23 mins.
IS:No blow .
FF:No blow . Flushed tool 5 mins.in to FFP. No blow .
FS:No blow .

Pressure vs. Time



PRESSURE SUMMARY

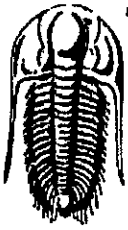
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2315.87	109.60	Initial Hydro-static
2	17.94	108.92	Open To Flow (1)
33	19.87	110.40	Shut-In(1)
63	41.11	111.21	End Shut-In(1)
63	20.43	111.21	Open To Flow (2)
96	24.47	111.93	Shut-In(2)
126	34.27	112.56	End Shut-In(2)
128	2299.13	114.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Drig.mud	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration, Inc.

Weiss 24C #1

8100 E 22nd St N. #700
Box 783188
Wichita, KS 67278-3188
ATTN: Mike Engelbrecht

24-25s-21w Ford,KS

Job Ticket: 38810

DST#: 2

Test Start: 2010.09.29 @ 09:34:22

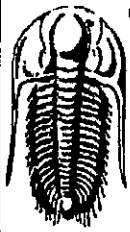
Tool Information

Drill Pipe:	Length: 4644.00 ft	Diameter: 3.80 inches	Volume: 65.14 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: 85000.00 lb
			<u>Total Volume: 65.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4650.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.00 ft			
Tool Length:	120.00 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			4631.00	
Shut in tool	5.00			4636.00	
HMV	5.00			4641.00	
Packer	4.00			4645.00	20.00 Bottom Of Top Packer
Packer	5.00			4650.00	
Stubb	1.00			4651.00	
Recorder	0.00	8167	Inside	4651.00	
Recorder	0.00	8370	Outside	4651.00	
Perforations	6.00			4657.00	
Blank Spacing	63.00			4720.00	
Perforations	25.00			4745.00	
Bullnose	5.00			4750.00	100.00 Bottom Packers & Anchor

Total Tool Length: 120.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration, Inc.
8100 E. 22nd St N. #700
Box 783188
Wichita, KS 67278-3188
ATTN: Mike Engelbrecht

Weiss 24C #1
24-25s-21w Ford,KS
Job Ticket: 38810 DST#: 2
Test Start: 2010.09.29 @ 09:34:22

Mud and Cushion Information

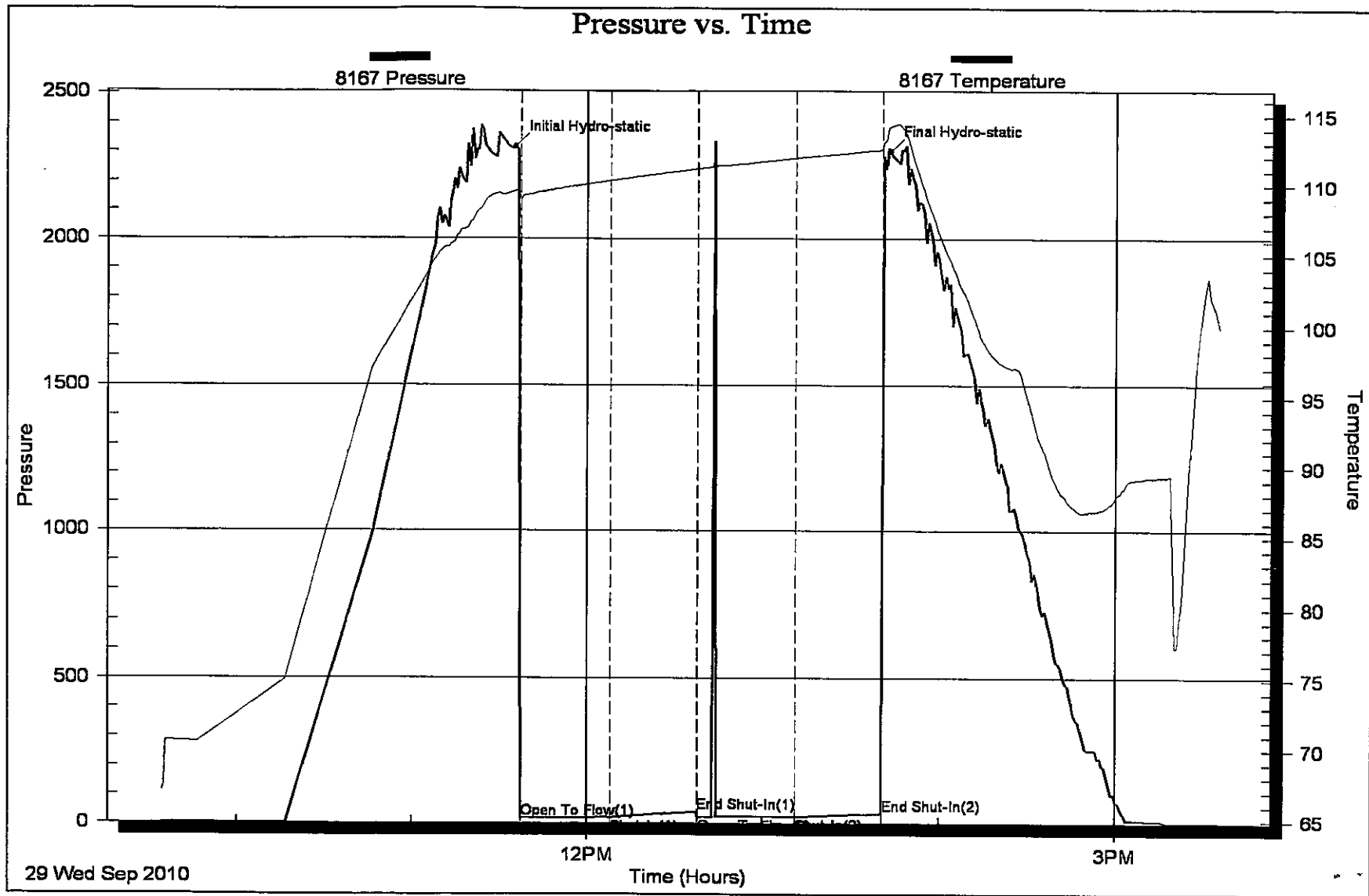
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	6000 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 0.20 inches			

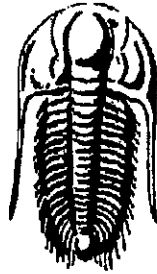
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Drig.mud	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration, Inc.**

8100 E. 22nd St N. #700
Box 783188
Wichita, KS 67278-3188

ATTN: Mike Engelbrecht

24-25s-21w Ford,KS

Weiss 24C #1

Start Date: 2010.09.30 @ 03:17:11

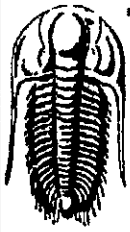
End Date: 2010.09.30 @ 09:22:56

Job Ticket #: 38811 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration, Inc.

8100 E 22nd St N. #700
Box 783188
Wichita, KS 67278-3188
ATTN: Mike Engelbrecht

Weiss 24C #1

24-25s-21w Ford,KS

Job Ticket: 38811

DST#: 3

Test Start: 2010.09.30 @ 03:17:11

GENERAL INFORMATION:

Formation: Mississippi

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:24:11

Time Test Ended: 09:22:56

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: 4744.00 ft (KB) To 4790.00 ft (KB) (TVD)

Total Depth: 4790.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2306.00 ft (KB)

2294.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8167

Inside

Press@RunDepth: 22.47 psig @ 4745.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.09.30

End Date: 2010.09.30

Last Calib.: 2010.09.30

Start Time: 03:17:16

End Time: 09:22:55

Time On Btm: 2010.09.30 @ 05:22:41

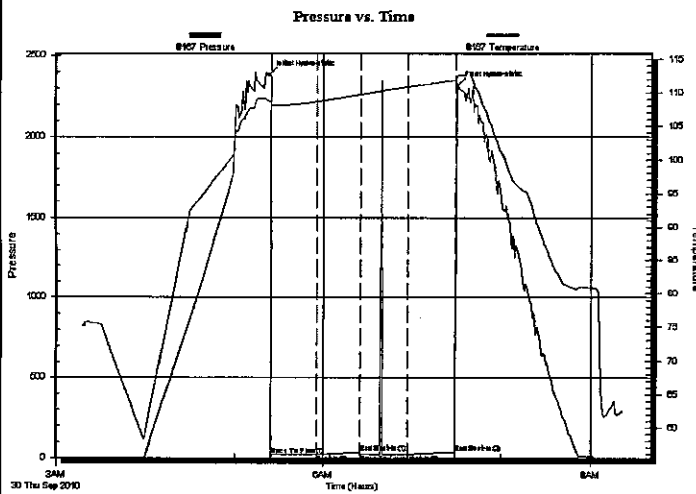
Time Off Btm: 2010.09.30 @ 07:29:56

TEST COMMENT: IF:Weak blow . 1/2" decreasing.

IS:No blow .

FF:No blow . Flushed tool 15 mins. in to FFP. No blow .

FS:No blow .



PRESSURE SUMMARY

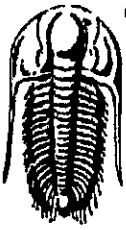
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2382.87	108.77	Initial Hydro-static
2	18.78	108.02	Open To Flow (1)
33	19.88	108.66	Shut-In(1)
62	35.94	109.69	End Shut-In(1)
63	20.07	109.70	Open To Flow (2)
94	22.47	110.84	Shut-In(2)
126	34.90	111.83	End Shut-In(2)
128	2319.02	112.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
8.00	Drig. mud	0.11

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration, Inc.
8100 E. 22nd St N. #700
Box 783188
Wichita, KS 67278-3188
ATTN: Mike Engelbrecht

Weiss 24C #1
24-25s-21w Ford,KS
Job Ticket: 38811 **DST#: 3**
Test Start: 2010.09.30 @ 03:17:11

Tool Information

Drill Pipe:	Length: 4736.00 ft	Diameter: 3.80 inches	Volume: 66.43 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: 75000.00 lb
			Total Volume: 66.43 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4744.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	66.00 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			4725.00	
Shut in tool	5.00			4730.00	
HMV	5.00			4735.00	
Packer	4.00			4739.00	20.00 Bottom Of Top Packer
Packer	5.00			4744.00	
Stubb	1.00			4745.00	
Recorder	0.00	8167	Inside	4745.00	
Recorder	0.00	8370	Outside	4745.00	
Perforations	40.00			4785.00	
Bullnose	5.00			4790.00	46.00 Bottom Packers & Anchor
Total Tool Length:	66.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration, Inc.
8100 E 22nd St N. #700
Box 783188
Wichita, KS 67278-3188
ATTN: Mike Engelbrecht

Weiss 24C #1
24-25s-21w Ford,KS
Job Ticket: 38811 DST#: 3
Test Start: 2010.09.30 @ 03:17:11

Mud and Cushion Information

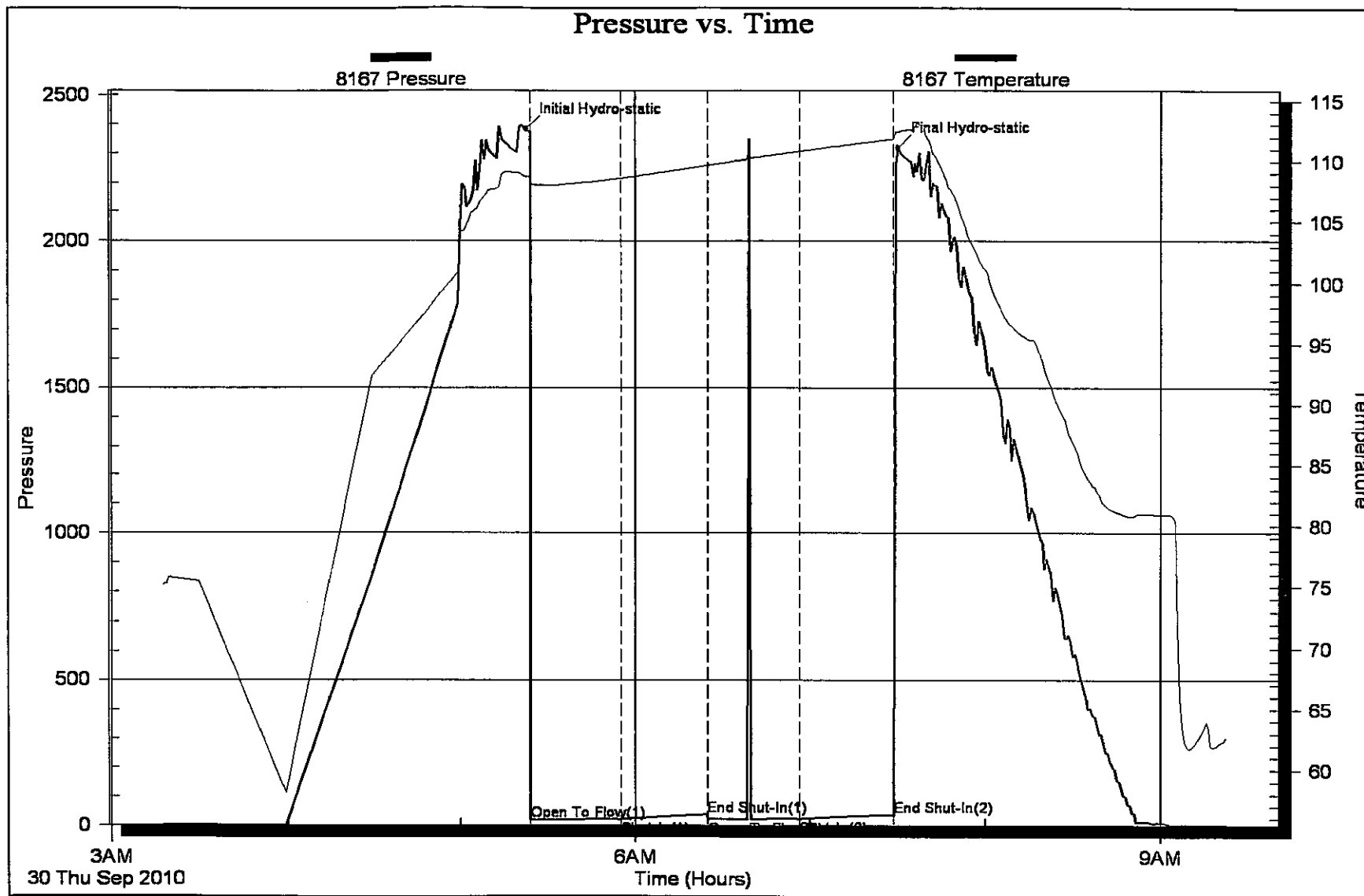
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	6000 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 0.20 inches			

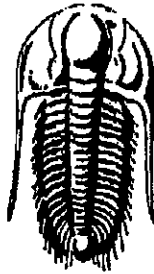
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
8.00	Drlg.mud	0.112

Total Length: 8.00 ft Total Volume: 0.112 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration, Inc.**

8100 E. 22nd St N. #700
Box 783188
Wichita, KS 67278-3188

ATTN: Mike Engelbrecht

24-25s-21w Ford,KS

Weiss 24C #1

Start Date: 2010.09.30 @ 19:03:02

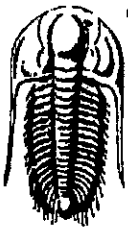
End Date: 2010.10.01 @ 01:52:02

Job Ticket #: 38812 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration, Inc.
8100 E 22nd St N. #700
Box 783188
Wichita, KS 67278-3188
ATTN: Mike Engelbrecht

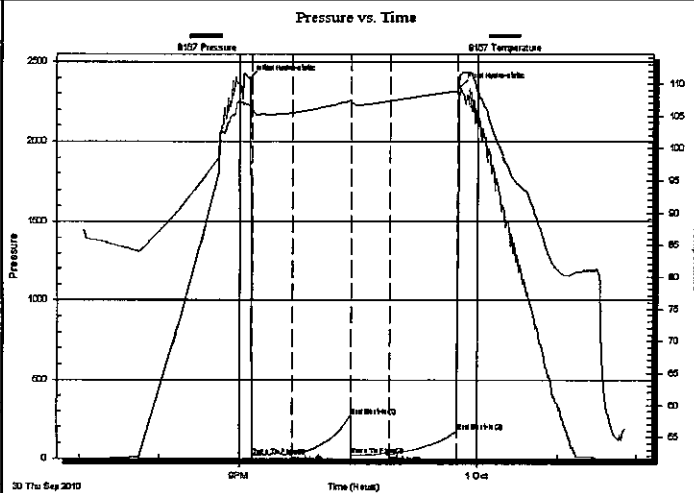
Weiss 24C #1
24-25s-21w Ford, KS
Job Ticket: 38812 DST#: 4
Test Start: 2010.09.30 @ 19:03:02

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: **No Whipstock** ft (KB)
 Test Type: **Conventional Bottom Hole**
 Time Tool Opened: **21:09:02**
 Tester: **Gary Pevoteaux**
 Time Test Ended: **01:52:02**
 Unit No: **39**
 Interval: **4746.00 ft (KB) To 4803.00 ft (KB) (TVD)**
 Reference Elevations: **2306.00 ft (KB)**
2294.00 ft (CF)
 Total Depth: **4803.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GR/CF: **12.00 ft**

Serial #: 8167 **Inside**
 Press@RunDepth: **23.69 psig @ 4747.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.09.30** End Date: **2010.10.01** Last Calib.: **2010.10.01**
 Start Time: **19:03:07** End Time: **01:52:01** Time On Btm: **2010.09.30 @ 21:07:17**
 Time Off Btm: **2010.09.30 @ 23:45:47**

TEST COMMENT: IF:Weak blow . 1/4 - 1/2".
 IS:No blow .
 FF:Very weak blow . Dead in 2 mins.
 FS:No blow .



PRESSURE SUMMARY

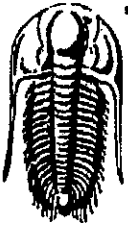
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2394.48	106.77	Initial Hydro-static
2	19.91	105.61	Open To Flow (1)
33	22.97	105.54	Shut-In(1)
77	269.77	107.54	End Shut-In(1)
78	23.15	107.45	Open To Flow (2)
107	23.69	107.36	Shut-In(2)
157	171.50	108.90	End Shut-In(2)
159	2342.97	111.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Drig. mud/w oil specs	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration, Inc.

Weiss 24C #1

8100 E. 22nd St N. #700
Box 783188
Wichita, KS 67278-3188
ATTN: Mike Engelbrecht

24-25s-21w Ford,KS
Job Ticket: 38812 DST#: 4
Test Start: 2010.09.30 @ 19:03:02

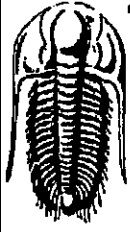
Tool Information

Drill Pipe:	Length: 4734.00 ft	Diameter: 3.80 inches	Volume: 66.41 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: 81000.00 lb
			<u>Total Volume: 66.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4746.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	77.00 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			4727.00	
Shut in tool	5.00			4732.00	
HMV	5.00			4737.00	
Packer	4.00			4741.00	20.00 Bottom Of Top Packer
Packer	5.00			4746.00	
Stubb	1.00			4747.00	
Recorder	0.00	8167	Inside	4747.00	
Recorder	0.00	8370	Outside	4747.00	
Perforations	6.00			4753.00	
Blank Spacing	32.00			4785.00	
Perforations	13.00			4798.00	
Bullnose	5.00			4803.00	57.00 Bottom Packers & Anchor

Total Tool Length: 77.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration, Inc.
8100 E. 22nd St N. #700
Box 783188
Wichita, KS 67278-3188
ATTN: Mike Engelbrecht

Weiss 24C #1
24-25s-21w Ford,KS
Job Ticket: 38812 DST#: 4
Test Start: 2010.09.30 @ 19:03:02

Mud and Cushion Information

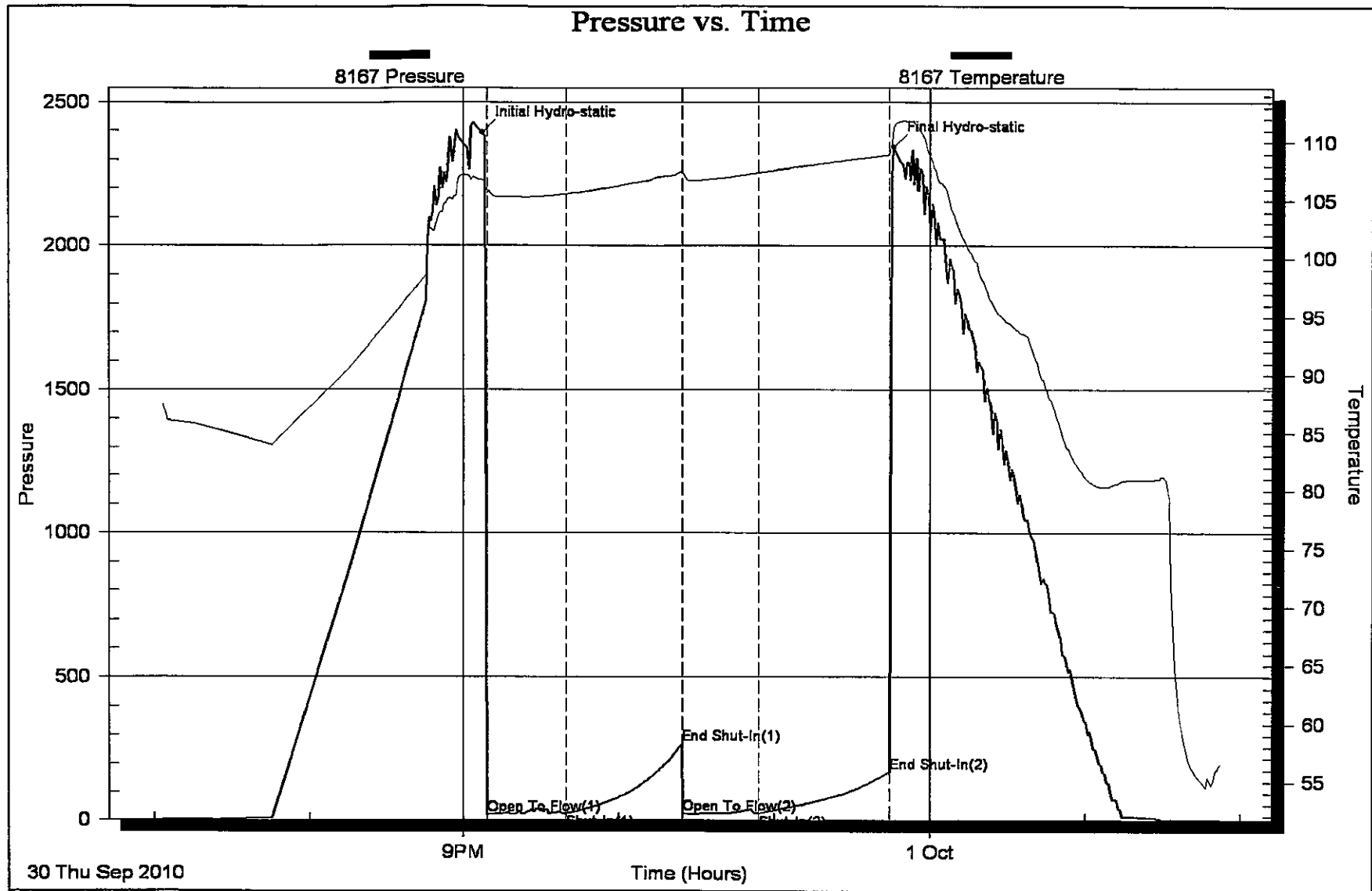
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	65000 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.18 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 6500.00 ppm			
Filter Cake: 0.20 inches			

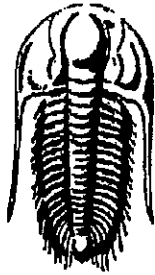
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Drlg.mud/w oil specs	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration, Inc.**

8100 E. 22nd St N. #700
Box 783188
Wichita, KS 67278-3188

ATTN: Mike Engelbrecht

24-25s-21w Ford,KS

Weiss 24C #1

Start Date: 2010.10.01 @ 09:44:40

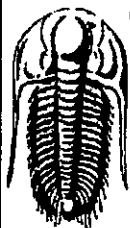
End Date: 2010.10.01 @ 15:51:55

Job Ticket #: 38813 DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration, Inc.
8100 E 22nd St N. #700
Box 783188
Wichita, KS 67278-3188
ATTN: Mike Engelbrecht

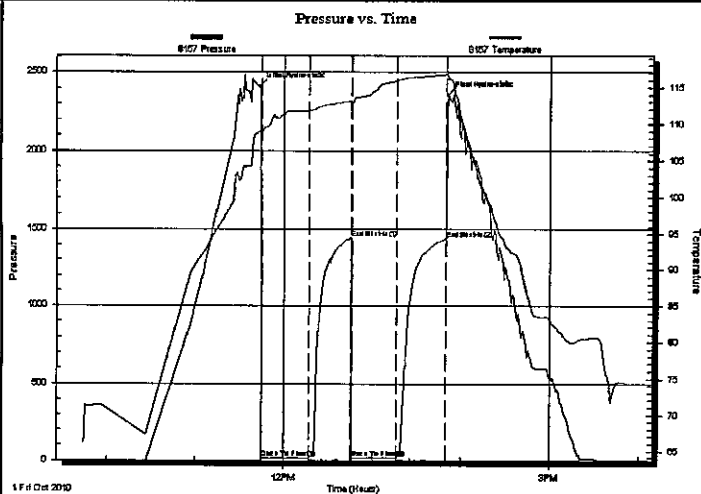
Weiss 24C #1
24-25s-21w Ford,KS
Job Ticket: 38813 DST#: 5
Test Start: 2010.10.01 @ 09:44:40

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: **No Whipstock** ft (KB)
 Test Type: **Conventional Bottom Hole**
 Time Tool Opened: **11:44:55**
 Tester: **Gary Pevoteaux**
 Time Test Ended: **15:51:55**
 Unit No: **39**
 Interval: **4801.00 ft (KB) To 4810.00 ft (KB) (TVD)**
 Reference Elevations: **2306.00 ft (KB)**
 Total Depth: **4810.00 ft (KB) (TVD)**
2294.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GR/CF: **12.00 ft**

Serial #: 8167 **Inside**
 Press@RunDepth: **17.99 psig @ 4802.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.10.01** End Date: **2010.10.01** Last Calib.: **2010.10.01**
 Start Time: **09:44:45** End Time: **15:51:54** Time On Btm: **2010.10.01 @ 11:43:10**
 Time Off Btm: **2010.10.01 @ 13:50:40**

TEST COMMENT: IF:Weak blow . 1/4".
 IS:No blow .
 FF:Very weak blow . (surface) Dead in 21 mins.
 FS:No blow .



PRESSURE SUMMARY

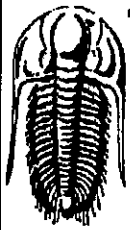
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2410.69	108.93	Initial Hydro-static
2	18.28	108.27	Open To Flow (1)
34	19.32	111.81	Shut-In (1)
63	1447.50	113.18	End Shut-In (1)
63	17.62	112.78	Open To Flow (2)
94	17.99	115.96	Shut-In (2)
126	1437.95	116.81	End Shut-In (2)
128	2358.36	116.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig.mud/w a trace of oil	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration, Inc.
8100 E. 22nd St N. #700
Box 783188
Wichita, KS 67278-3188
ATTN: Mike Engelbrecht

Weiss 24C #1
24-25s-21w Ford,KS
Job Ticket: 38813 **DST#: 5**
Test Start: 2010.10.01 @ 09:44:40

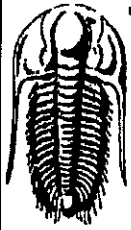
Tool Information

Drill Pipe:	Length: 4799.00 ft	Diameter: 3.80 inches	Volume: 67.32 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: 75000.00 lb
		Total Volume:	67.32 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4801.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	29.00 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			4782.00	
Shut in tool	5.00			4787.00	
HMV	5.00			4792.00	
Packer	4.00			4796.00	20.00 Bottom Of Top Packer
Packer	5.00			4801.00	
Stubb	1.00			4802.00	
Recorder	0.00	8167	Inside	4802.00	
Recorder	0.00	8370	Outside	4802.00	
Perforations	3.00			4805.00	
Bullnose	5.00			4810.00	9.00 Bottom Packers & Anchor
Total Tool Length:	29.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration, Inc.
8100 E. 22nd St N. #700
Box 783188
Wichita, KS 67278-3188
ATTN: Mike Engelbrecht

Weiss 24C #1
24-25s-21w Ford,KS
Job Ticket: 38813 **DST#: 5**
Test Start: 2010.10.01 @ 09:44:40

Mud and Cushion Information

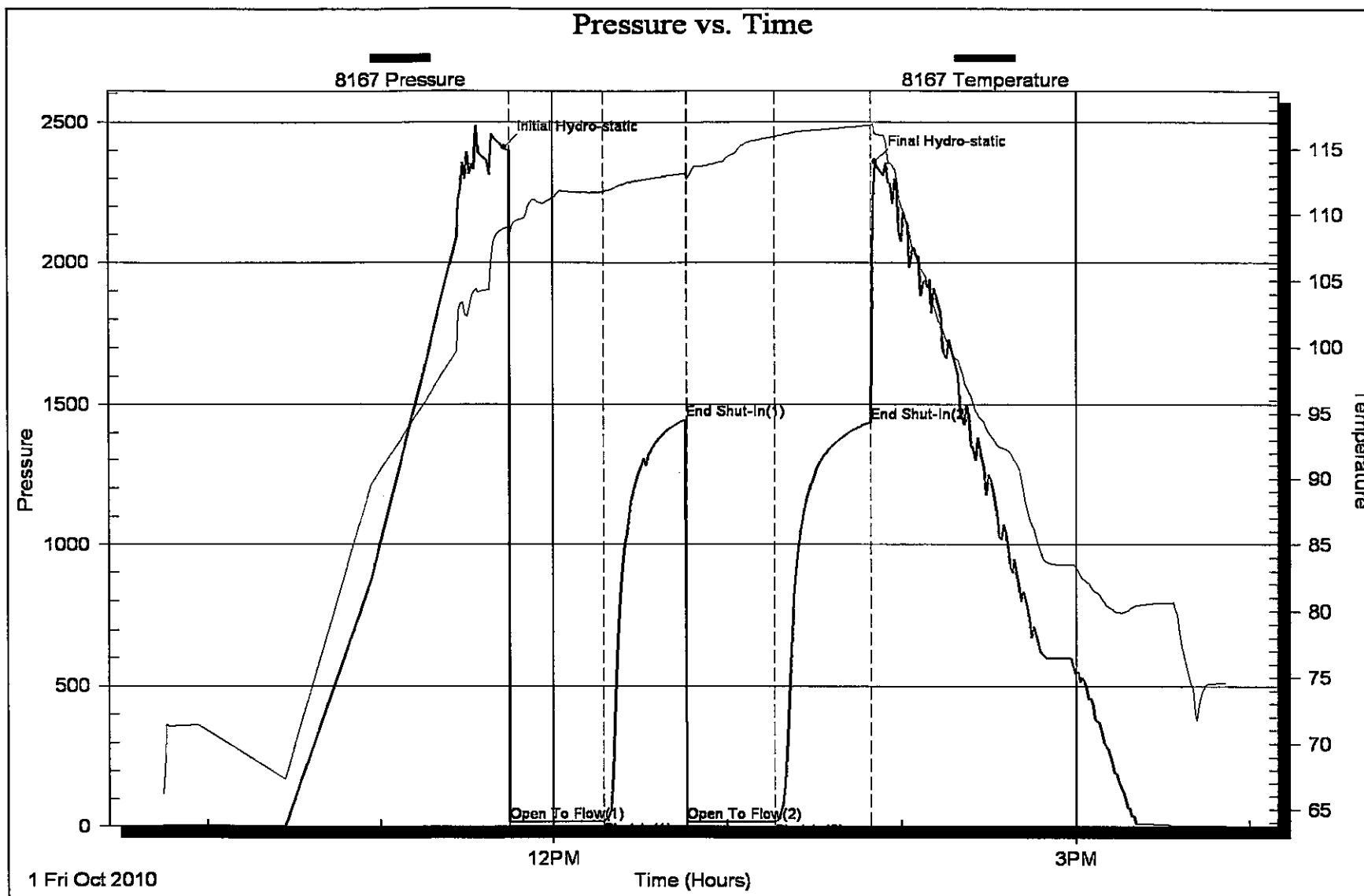
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	7000 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.58 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 0.20 inches			

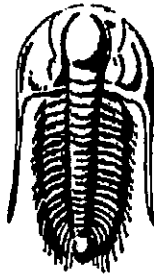
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drig.mud/w a trace of oil	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration, Inc.**

8100 E. 22nd St N. #700
Box 783188
Wichita, KS 67278-3188

ATTN: Mike Engelbrecht

24-25s-21w Ford,KS

Weiss 24C #1

Start Date: 2010.10.01 @ 22:44:33

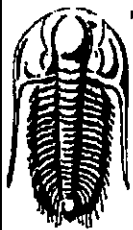
End Date: 2010.10.02 @ 05:40:48

Job Ticket #: 38814 DST #: 6

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration, Inc.
8100 E 22nd St N. #700
Box 783188
Wichita, KS 67278-3188
ATTN: Mike Engelbrecht

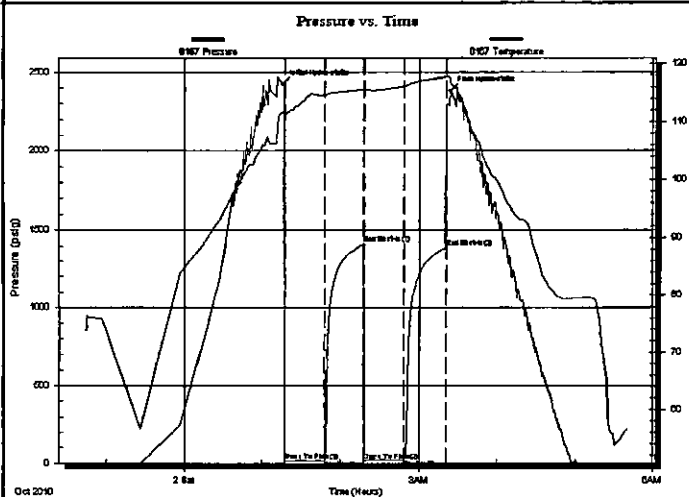
Weiss 24C #1
24-25s-21w Ford,KS
Job Ticket: 38814 DST#: 6
Test Start: 2010.10.01 @ 22:44:33

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 01:17:33
Time Test Ended: 05:40:48
Interval: **4805.00 ft (KB) To 4815.00 ft (KB) (TVD)**
Total Depth: **4815.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Gary Pevoteaux**
Unit No: **39**
Reference Elevations: **2306.00 ft (KB)**
2294.00 ft (CF)
KB to GR/CF: **12.00 ft**

Serial #: 8167 **Inside**
Press@RunDepth: **23.72 psig @ 4806.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.10.01** End Date: **2010.10.02** Last Calib.: **2010.10.02**
Start Time: **22:44:38** End Time: **05:40:47** Time On Btm: **2010.10.02 @ 01:15:33**
Time Off Btm: **2010.10.02 @ 03:23:48**

TEST COMMENT: IF:Weak blow . 1/2".
IS:No blow .
FF:Weak surface blow . (on & off throughout final open)
FS:No blow .



PRESSURE SUMMARY

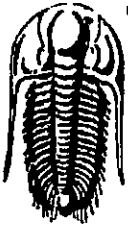
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2422.97	111.62	Initial Hydro-static
2	17.44	111.06	Open To Flow (1)
33	19.32	114.62	Shut-In(1)
63	1417.29	115.59	End Shut-In(1)
63	19.81	115.25	Open To Flow (2)
93	23.72	116.14	Shut-In(2)
126	1391.61	117.64	End Shut-In(2)
129	2380.60	116.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	MW sw /o specs 31%m 69%w	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration, Inc.
8100 E. 22nd St N. #700
Box 783188
Wichita, KS 67278-3188
ATTN: Mike Engelbrecht

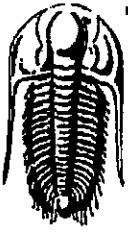
Weiss 24C #1
24-25s-21w Ford,KS
Job Ticket: 38814 DST#: 6
Test Start: 2010.10.01 @ 22:44:33

Tool Information

Drill Pipe:	Length: 4798.00 ft	Diameter: 3.80 inches	Volume: 67.30 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: 77000.00 lb
			Total Volume: 67.30 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4805.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	30.00 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			4786.00	
Shut in tool	5.00			4791.00	
HMV	5.00			4796.00	
Packer	4.00			4800.00	20.00 Bottom Of Top Packer
Packer	5.00			4805.00	
Stubb	1.00			4806.00	
Recorder	0.00	8167	Inside	4806.00	
Recorder	0.00	8370	Outside	4806.00	
Perforations	4.00			4810.00	
Bullnose	5.00			4815.00	10.00 Bottom Packers & Anchor
Total Tool Length:	30.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration, Inc.
8100 E. 22nd St N. #700
Box 783188
Wichita, KS 67278-3188
ATTN: Mike Engelbrecht

Weiss 24C #1
24-25s-21w Ford,KS
Job Ticket: 38814 DST#: 6
Test Start: 2010.10.01 @ 22:44:33

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:	77000 ppm
Viscosity: 67.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.58 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	MW sw/o specs 31%m 69%w	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments: RW = .11 ohms @62 deg F

