



## DRILL STEM TEST REPORT

Prepared For: **Charter Energy**

PO Box 252  
Great Bend KS 67530

ATTN: Clint Muscove

### **Schmidt Farm Unit #1**

### **22-15s-17w Ellis,KS**

Start Date: 2014.12.04 @ 08:51:00

End Date: 2014.12.04 @ 14:22:00

Job Ticket #: 60300                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.12.10 @ 14:31:13



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Charter Energy  
PO Box 252  
Great Bend KS 67530  
ATTN: Clint Muscove

**22-15s-17w Ellis,KS**  
**Schmidt Farm Unit #1**  
Job Ticket: 60300 **DST#: 1**  
Test Start: 2014.12.04 @ 08:51:00

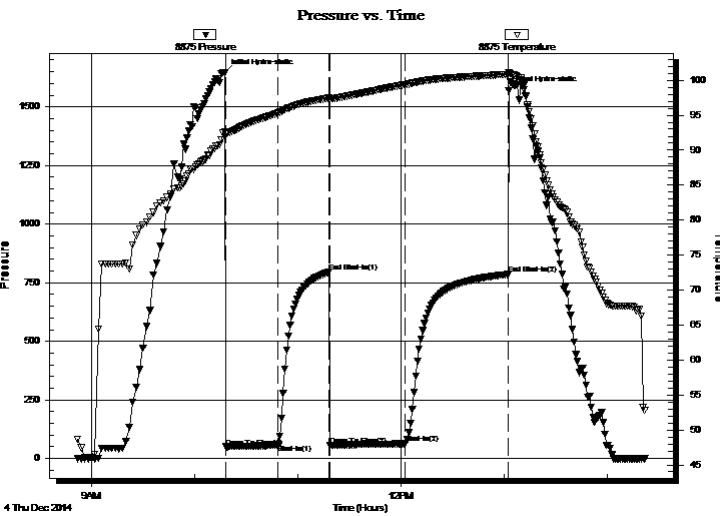
## GENERAL INFORMATION:

Formation: **LKC A-F**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 10:18:00  
Time Test Ended: 14:22:00  
Interval: **3300.00 ft (KB) To 3380.00 ft (KB) (TVD)**  
Total Depth: 3380.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Dustin Ellis  
Unit No: S2  
Reference Elevations: 1978.00 ft (KB)  
1970.00 ft (CF)  
KB to GR/CF: 8.00 ft

## Serial #: 8875 Outside

Press@RunDepth: 63.25 psig @ 3375.25 ft (KB)  
Start Date: 2014.12.04 End Date: 2014.12.04  
Start Time: 08:52:00 End Time: 14:22:00  
Capacity: 5000.00 psig  
Last Calib.: 2014.12.04  
Time On Btm: 2014.12.04 @ 10:17:30  
Time Off Btm: 2014.12.04 @ 13:02:30

TEST COMMENT: IFP 30 min. Weak building blow built to 2 inches  
ISI 30 min. No blow back.  
FFP 45 min. Weak blow built to 2 inches.  
FSI 60 min. No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1644.43	92.67	Initial Hydro-static
1	49.69	92.38	Open To Flow (1)
31	60.67	95.32	Shut-In(1)
61	795.32	97.47	End Shut-In(1)
61	56.34	97.28	Open To Flow (2)
105	63.25	99.35	Shut-In(2)
165	785.40	100.85	End Shut-In(2)
165	1570.46	101.12	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Very lightly oil spotted mud	0.42

## Gas Rates

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



# DRILL STEM TEST REPORT

Charter Energy  
 PO Box 252  
 Great Bend KS 67530  
 ATTN: Clint Muscrove

22-15s-17w Ellis,KS

Schmidt Farm Unit #1

Job Ticket: 60300 **DST#: 1**

Test Start: 2014.12.04 @ 08:51:00

## GENERAL INFORMATION:

Formation: **LKC A-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:18:00

Time Test Ended: 14:22:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: S2

**Interval: 3300.00 ft (KB) To 3380.00 ft (KB) (TVD)**

Reference Elevations: 1978.00 ft (KB)

Total Depth: 3380.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6839**

Inside

Press@RunDepth: psig @ 3375.25 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.12.04 End Date: 2014.12.04

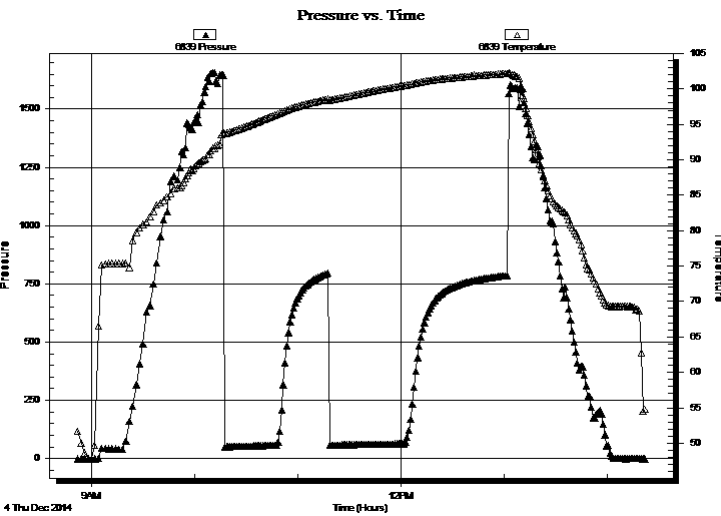
Last Calib.: 2014.12.04

Start Time: 08:52:00 End Time: 14:21:30

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP 30 min. Weak building blow built to 2 inches  
 ISI 30 min.No blow back.  
 FFP 45 min. Weak blow built to 2 inches.  
 FSI 60 min. No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Very lightly oil spotted mud	0.42

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Charter Energy

**22-15s-17w Ellis,KS**

PO Box 252  
Great Bend KS 67530

**Schmidt Farm Unit #1**

Job Ticket: 60300

**DST#: 1**

ATTN: Clint Muscove

Test Start: 2014.12.04 @ 08:51:00

## Tool Information

Drill Pipe:	Length: 3290.00 ft	Diameter: 3.80 inches	Volume: 46.15 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: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 46.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3300.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.25 ft			
Tool Length:	100.25 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			3285.00	
Hydraulic tool	5.00			3290.00	
Top Packer	5.00			3295.00	
Packer	5.00			3300.00	20.00 Bottom Of Top Packer
Anchor	5.00			3305.00	
Change Over Sub	0.75			3305.75	
Drill Pipe	63.75			3369.50	
Change Over Sub	0.75			3370.25	
Anchor	5.00			3375.25	
Recorder	0.00	6839	Inside	3375.25	
Recorder	0.00	8875	Outside	3375.25	
Bull Plug	5.00			3380.25	80.25 Anchor Tool

**Total Tool Length: 100.25**



**TRILOBITE  
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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Charter Energy

**22-15s-17w Ellis,KS**

PO Box 252  
Great Bend KS 67530

**Schmidt Farm Unit #1**

Job Ticket: 60300      **DST#: 1**

ATTN: Clint Muscove

Test Start: 2014.12.04 @ 08:51:00

## 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: 60.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 2300.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Very lightly oil spotted mud	0.421

Total Length: 30.00 ft      Total Volume: 0.421 bbl

Num Fluid Samples: 0

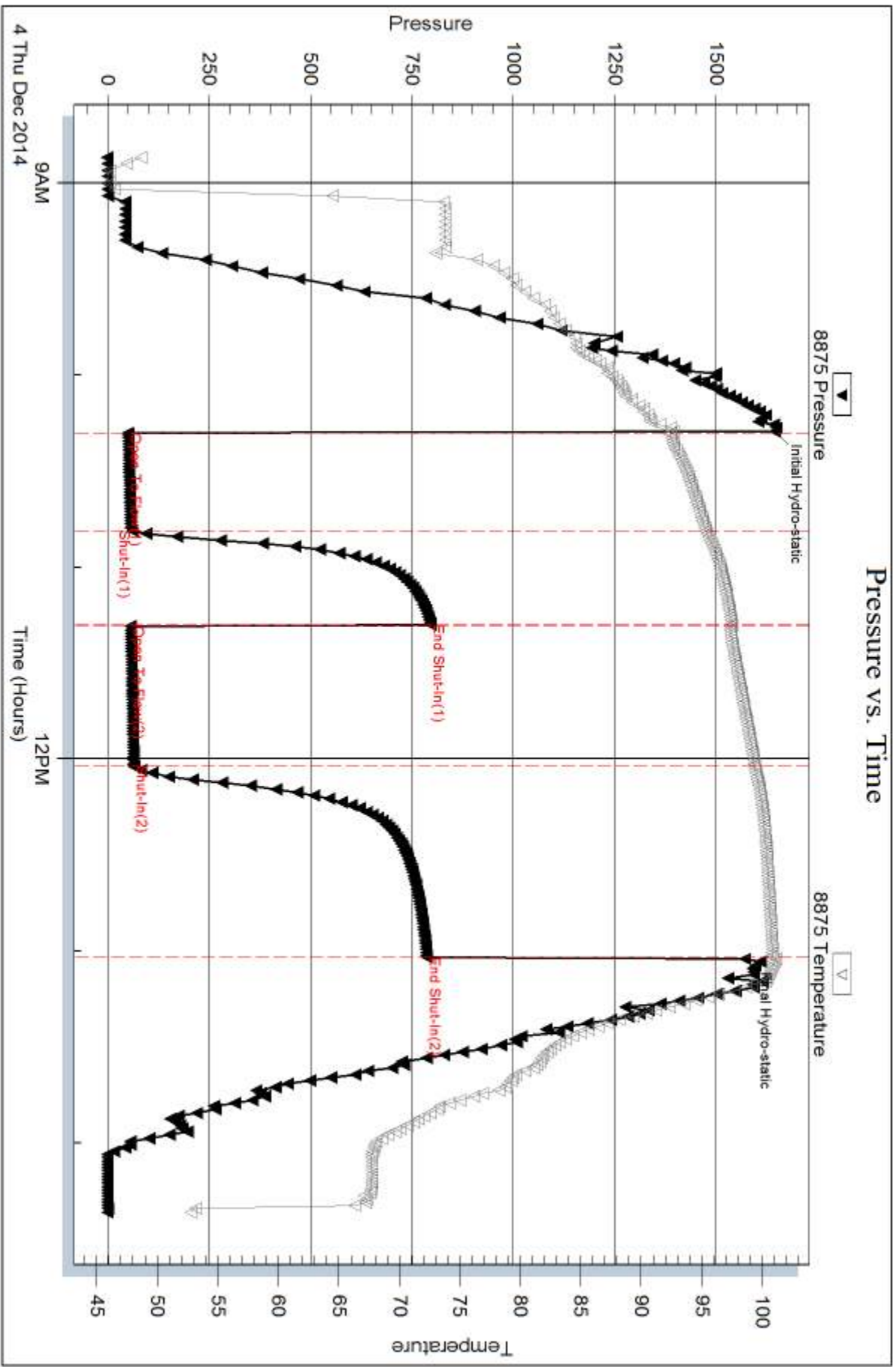
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



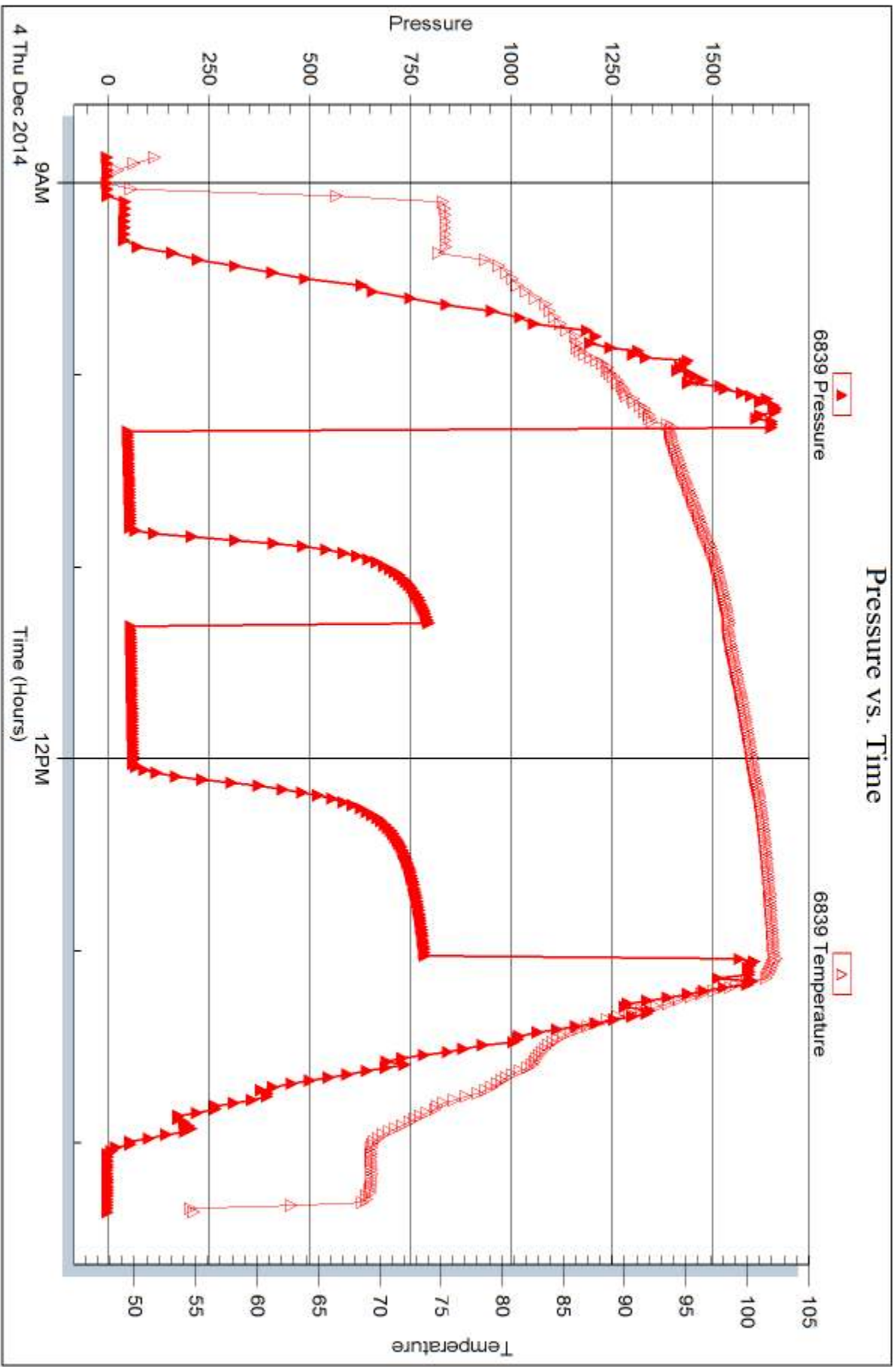
Serial #: 6839

Inside

Charter Energy

Schmidt Farm Unit #1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Charter Energy**

PO Box 252  
Great Bend KS 67530

ATTN: Clint Muscove

### **Schmidt Farm Unit #1**

### **22-15s-17w Ellis,KS**

Start Date: 2014.12.05 @ 12:42:00

End Date: 2014.12.05 @ 17:11:00

Job Ticket #: 62101                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.12.10 @ 14:30:49





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Charter Energy  
 PO Box 252  
 Great Bend KS 67530  
 ATTN: Clint Muscove

**22-15s-17w Ellis,KS**  
**Schmidt Farm Unit #1**  
 Job Ticket: 62101 **DST#: 2**  
 Test Start: 2014.12.05 @ 12:42:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 14:04:30  
 Time Test Ended: 17:11:00  
 Interval: **3510.00 ft (KB) To 3583.00 ft (KB) (TVD)**  
 Total Depth: 3583.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: S2  
 Reference Elevations: 1978.00 ft (KB)  
 1970.00 ft (CF)  
 KB to GR/CF: 8.00 ft

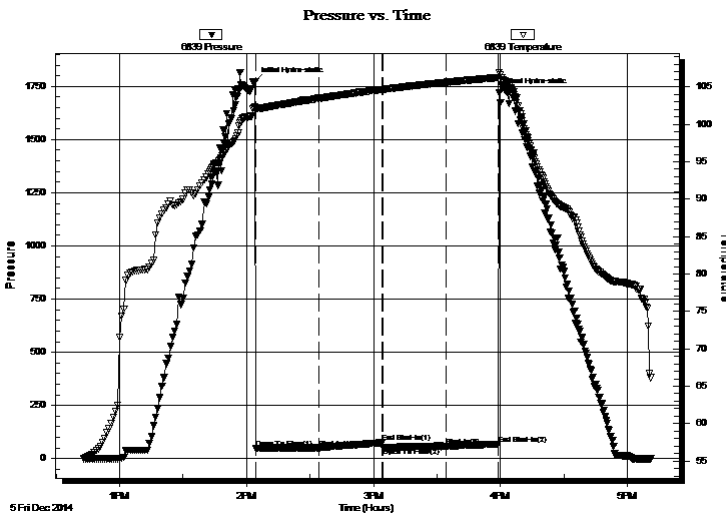
## Serial #: 6839

Inside

Press@RunDepth: 56.60 psig @ 3578.95 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.12.05 End Date: 2014.12.05 Last Calib.: 2014.12.05  
 Start Time: 12:43:00 End Time: 17:11:00 Time On Btm: 2014.12.05 @ 14:04:00  
 Time Off Btm: 2014.12.05 @ 15:59:30

TEST COMMENT: IFP 30 min Weak blow built to 1/2 inch.  
 ISI 30 min. No blow back  
 FFP 30 min. Dead  
 FSI 30 min. No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1773.58	102.34	Initial Hydro-static
1	48.74	102.03	Open To Flow (1)
30	50.68	103.56	Shut-In(1)
60	74.77	104.66	End Shut-In(1)
61	51.38	104.66	Open To Flow (2)
91	56.60	105.62	Shut-In(2)
115	68.33	106.25	End Shut-In(2)
116	1720.52	106.94	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.07

## Gas Rates

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



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# DRILL STEM TEST REPORT

Charter Energy  
PO Box 252  
Great Bend KS 67530  
ATTN: Clint Muscrove

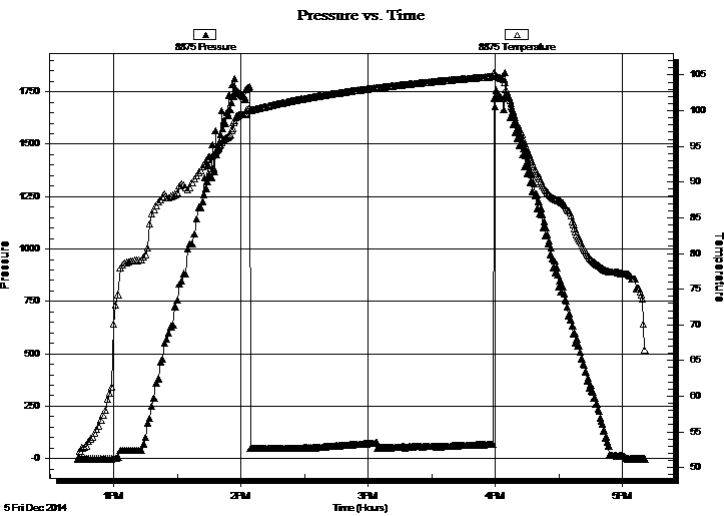
**22-15s-17w Ellis, KS**  
**Schmidt Farm Unit #1**  
Job Ticket: 62101 **DST#: 2**  
Test Start: 2014.12.05 @ 12:42:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 14:04:30  
Time Test Ended: 17:11:00  
Interval: **3510.00 ft (KB) To 3583.00 ft (KB) (TVD)**  
Total Depth: 3583.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 1978.00 ft (KB)  
1970.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8875 Outside**  
Press@RunDepth: psig @ 3578.95 ft (KB) Capacity: 5000.00 psig  
Start Date: 2014.12.05 End Date: 2014.12.05 Last Calib.: 2014.12.05  
Start Time: 12:43:00 End Time: 17:10:30 Time On Btm:  
Time Off Btm:

TEST COMMENT: IFP 30 min Weak blow built to 1/2 inch.  
ISI 30 min. No blow back  
FFP 30 min. Dead  
FSI 30 min. No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.07

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Charter Energy

**22-15s-17w Ellis,KS**

PO Box 252  
Great Bend KS 67530

**Schmidt Farm Unit #1**

Job Ticket: 62101

**DST#: 2**

ATTN: Clint Muscove

Test Start: 2014.12.05 @ 12:42:00

## Tool Information

Drill Pipe:	Length: 3512.00 ft	Diameter: 3.80 inches	Volume: 49.26 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: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 57000.00 lb
			<u>Total Volume: 49.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3510.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.95 ft			
Tool Length:	93.95 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			3495.00	
Hydraulic tool	5.00			3500.00	
Top Packer	5.00			3505.00	
Packer	5.00			3510.00	20.00 Bottom Of Top Packer
Anchor	6.00			3516.00	
Change Over Sub	0.75			3516.75	
Drill Pipe	31.45			3548.20	
Change Over Sub	0.75			3548.95	
Anchor	30.00			3578.95	
Recorder	0.00	6839	Inside	3578.95	
Recorder	0.00	8875	Outside	3578.95	
Bull Plug	5.00			3583.95	73.95 Anchor Tool

**Total Tool Length: 93.95**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Charter Energy

**22-15s-17w Ellis,KS**

PO Box 252  
Great Bend KS 67530

**Schmidt Farm Unit #1**

Job Ticket: 62101 **DST#: 2**

ATTN: Clint Muscove

Test Start: 2014.12.05 @ 12:42:00

## 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: 46.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	Mud 100%	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

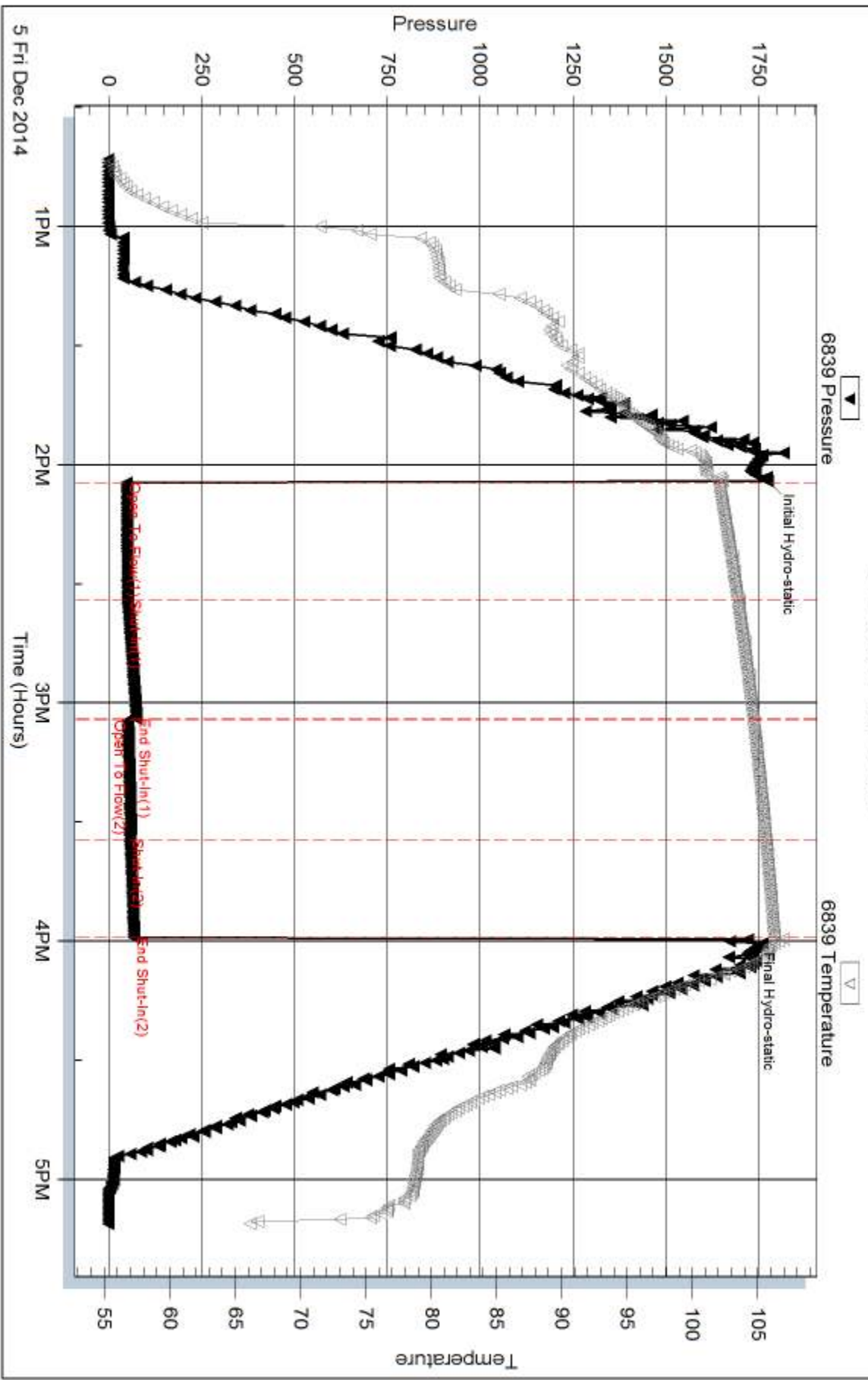
Serial #:

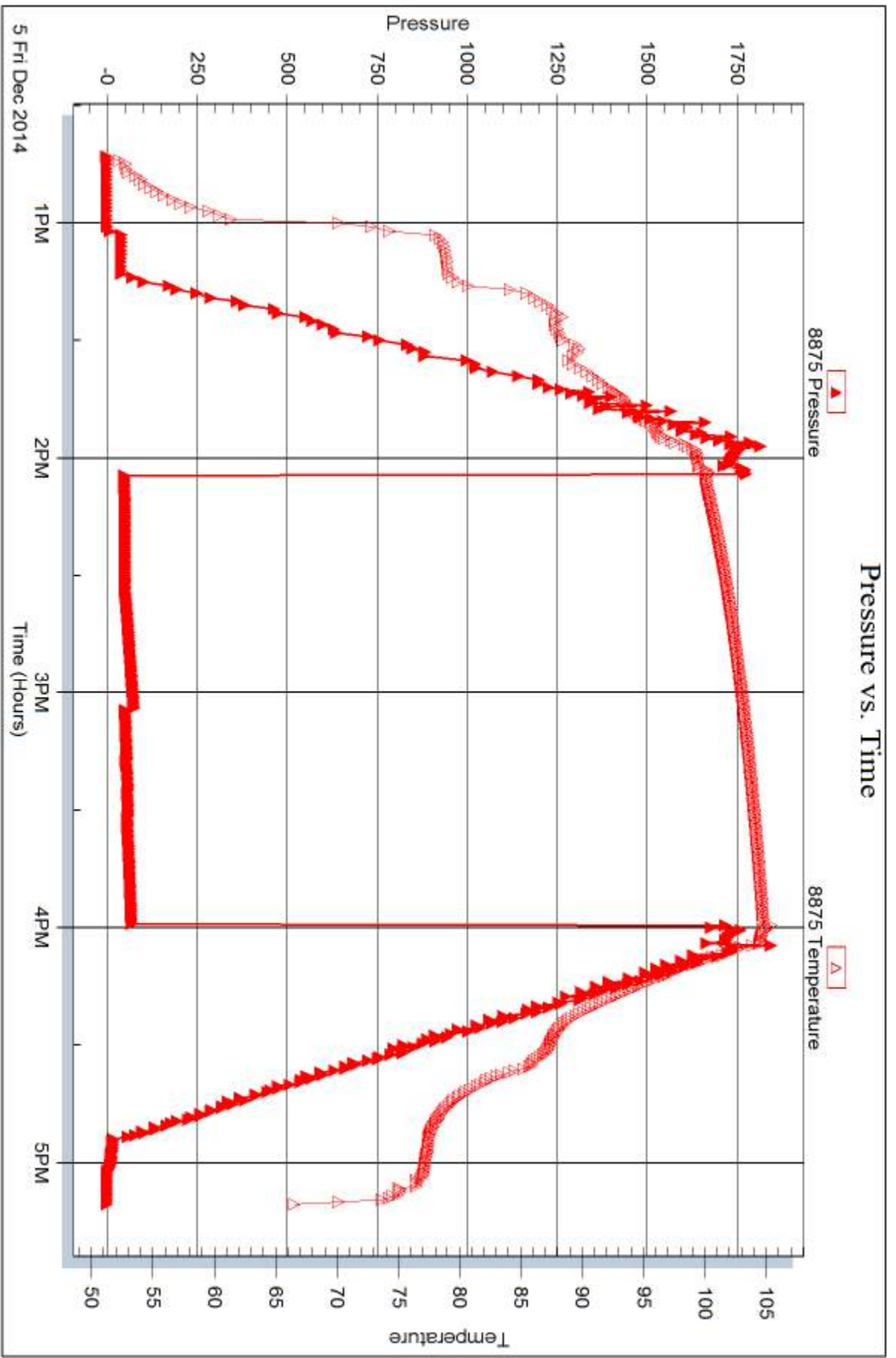
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Charter Energy**

PO Box 252  
Great Bend KS 67530

ATTN: Clint Muscove

### **Schmidt Farm Unit #1**

### **22-15s-17w Ellis,KS**

Start Date: 2014.12.05 @ 10:42:00

End Date: 2014.12.05 @ 16:12:00

Job Ticket #: 62102                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.12.10 @ 14:30:16



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Charter Energy  
 PO Box 252  
 Great Bend KS 67530  
 ATTN: Clint Muscove

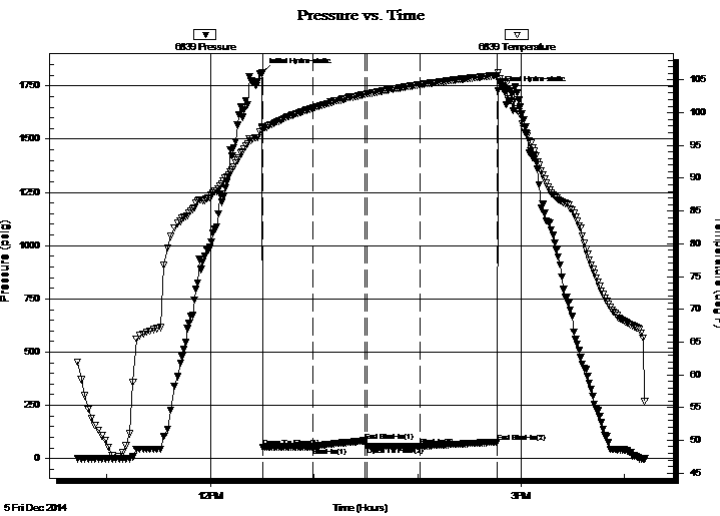
**22-15s-17w Ellis,KS**  
**Schmidt Farm Unit #1**  
 Job Ticket: 62102 **DST#: 3**  
 Test Start: 2014.12.05 @ 10:42:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 12:30:30 Tester: Dustin Ellis  
 Time Test Ended: 16:12:00 Unit No: S2  
 Interval: **3510.00 ft (KB) To 3590.00 ft (KB) (TVD)** Reference Elevations: 1978.00 ft (KB)  
 Total Depth: 3590.00 ft (KB) (TVD) 1970.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 6839 Inside**  
 Press@RunDepth: 56.37 psig @ 3585.14 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.12.05 End Date: 2014.12.05 Last Calib.: 2014.12.06  
 Start Time: 10:43:00 End Time: 16:12:00 Time On Btm: 2014.12.05 @ 12:30:00  
 Time Off Btm: 2014.12.05 @ 14:46:30

**TEST COMMENT:** IFP 30 min. Weak blow built to 1.5 inches.  
 ISI 30 min. No blow back  
 FFP 30 min. Dead  
 FSI 45 min. No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1813.47	97.81	Initial Hydro-static
1	53.76	97.53	Open To Flow (1)
30	55.28	100.73	Shut-In(1)
60	83.71	102.80	End Shut-In(1)
61	56.11	102.94	Open To Flow (2)
92	56.37	104.29	Shut-In(2)
136	76.03	105.72	End Shut-In(2)
137	1727.21	106.16	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%	0.14

## Gas Rates

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





**TRILOBITE  
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# DRILL STEM TEST REPORT

Charter Energy  
PO Box 252  
Great Bend KS 67530  
ATTN: Clint Muscove

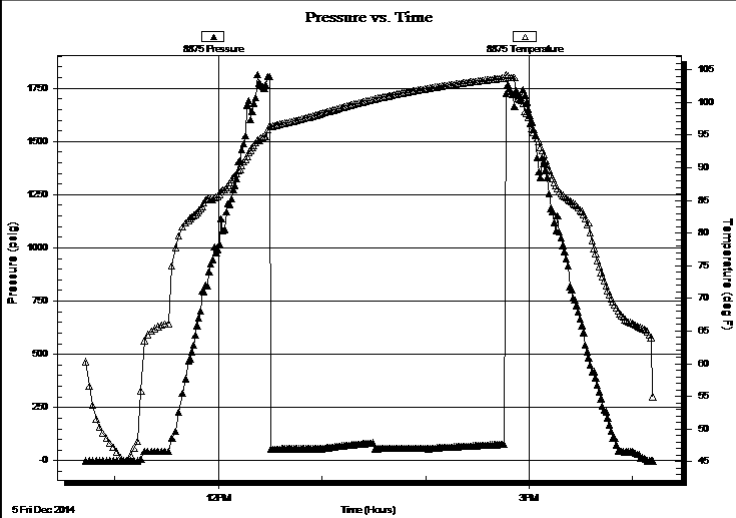
**22-15s-17w Ellis, KS**  
**Schmidt Farm Unit #1**  
Job Ticket: 62102      **DST#: 3**  
Test Start: 2014.12.05 @ 10:42:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 12:30:30  
Time Test Ended: 16:12:00  
Interval: **3510.00 ft (KB) To 3590.00 ft (KB) (TVD)**  
Total Depth: 3590.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Dustin Ellis  
Unit No: S2  
Reference Elevations: 1978.00 ft (KB)  
1970.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8875      Outside**  
Press@RunDepth: psig @ 3585.14 ft (KB)      Capacity: 5000.00 psig  
Start Date: 2014.12.05      End Date: 2014.12.05      Last Calib.: 2014.12.06  
Start Time: 10:43:00      End Time: 16:12:00      Time On Btm:  
Time Off Btm:

TEST COMMENT: IFP 30 min. Weak blow built to 1.5 inches.  
ISI 30 min. No blow back  
FFP 30 min. Dead  
FSI 45 min. No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%	0.14

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Charter Energy

**22-15s-17w Ellis,KS**

PO Box 252  
Great Bend KS 67530

**Schmidt Farm Unit #1**

Job Ticket: 62102

**DST#: 3**

ATTN: Clint Muscove

Test Start: 2014.12.05 @ 10:42:00

## Tool Information

Drill Pipe:	Length: 3512.00 ft	Diameter: 3.80 inches	Volume: 49.26 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: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 57000.00 lb
			<u>Total Volume: 49.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3510.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.14 ft			
Tool Length:	100.14 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			3495.00	
Hydraulic tool	5.00			3500.00	
Top Packer	5.00			3505.00	
Packer	5.00			3510.00	20.00 Bottom Of Top Packer
Anchor	6.00			3516.00	
Change Over Sub	0.75			3516.75	
Drill Pipe	31.64			3548.39	
Change Over Sub	0.75			3549.14	
Anchor	36.00			3585.14	
Recorder	0.00	6839	Inside	3585.14	
Recorder	0.00	8875	Outside	3585.14	
Bull Plug	5.00			3590.14	80.14 Anchor Tool

**Total Tool Length: 100.14**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Charter Energy

**22-15s-17w Ellis,KS**

PO Box 252  
Great Bend KS 67530

**Schmidt Farm Unit #1**

Job Ticket: 62102      **DST#: 3**

ATTN: Clint Muscove

Test Start: 2014.12.05 @ 10:42:00

## 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: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100%	0.140

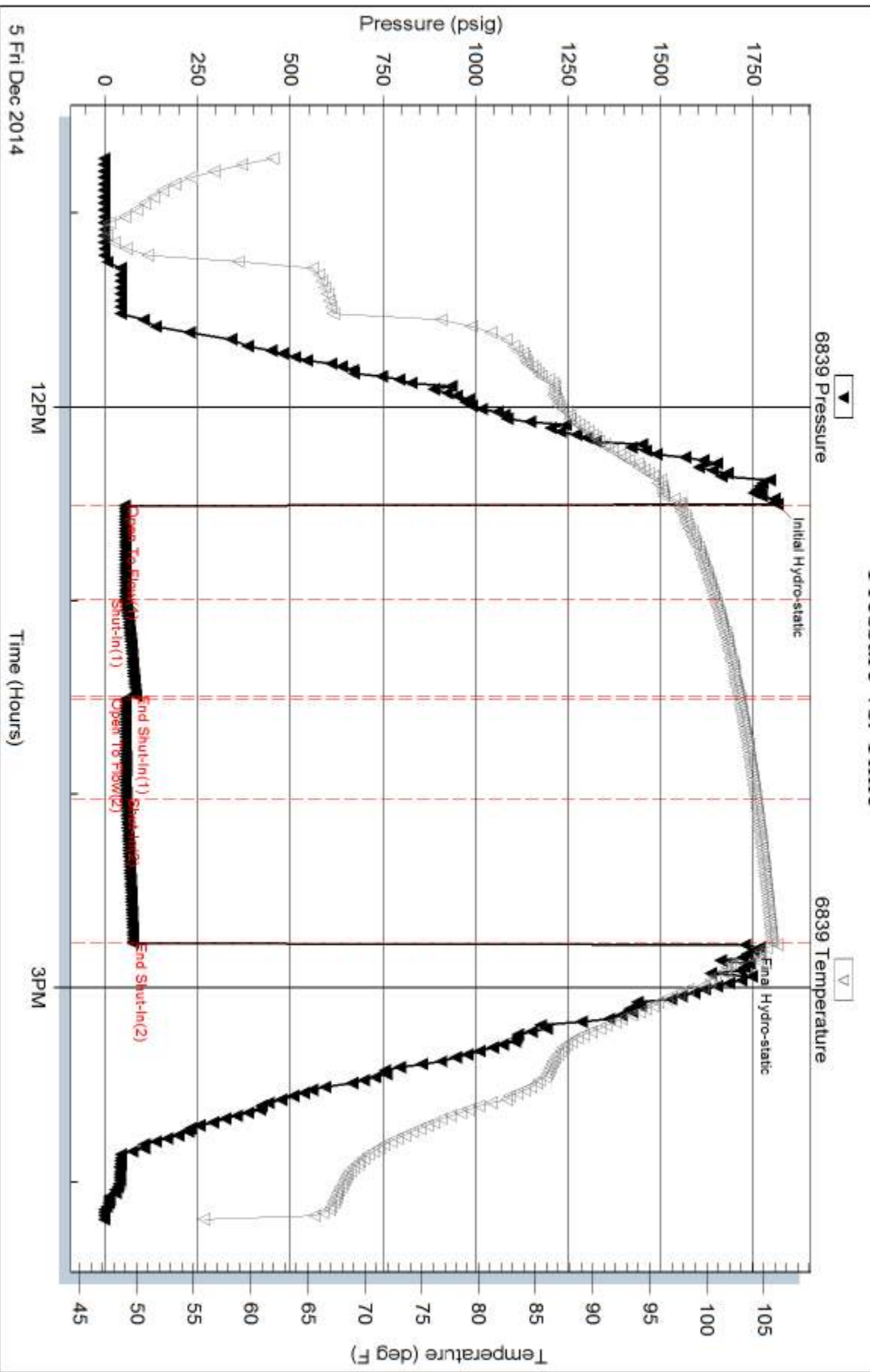
Total Length: 10.00 ft      Total Volume: 0.140 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time

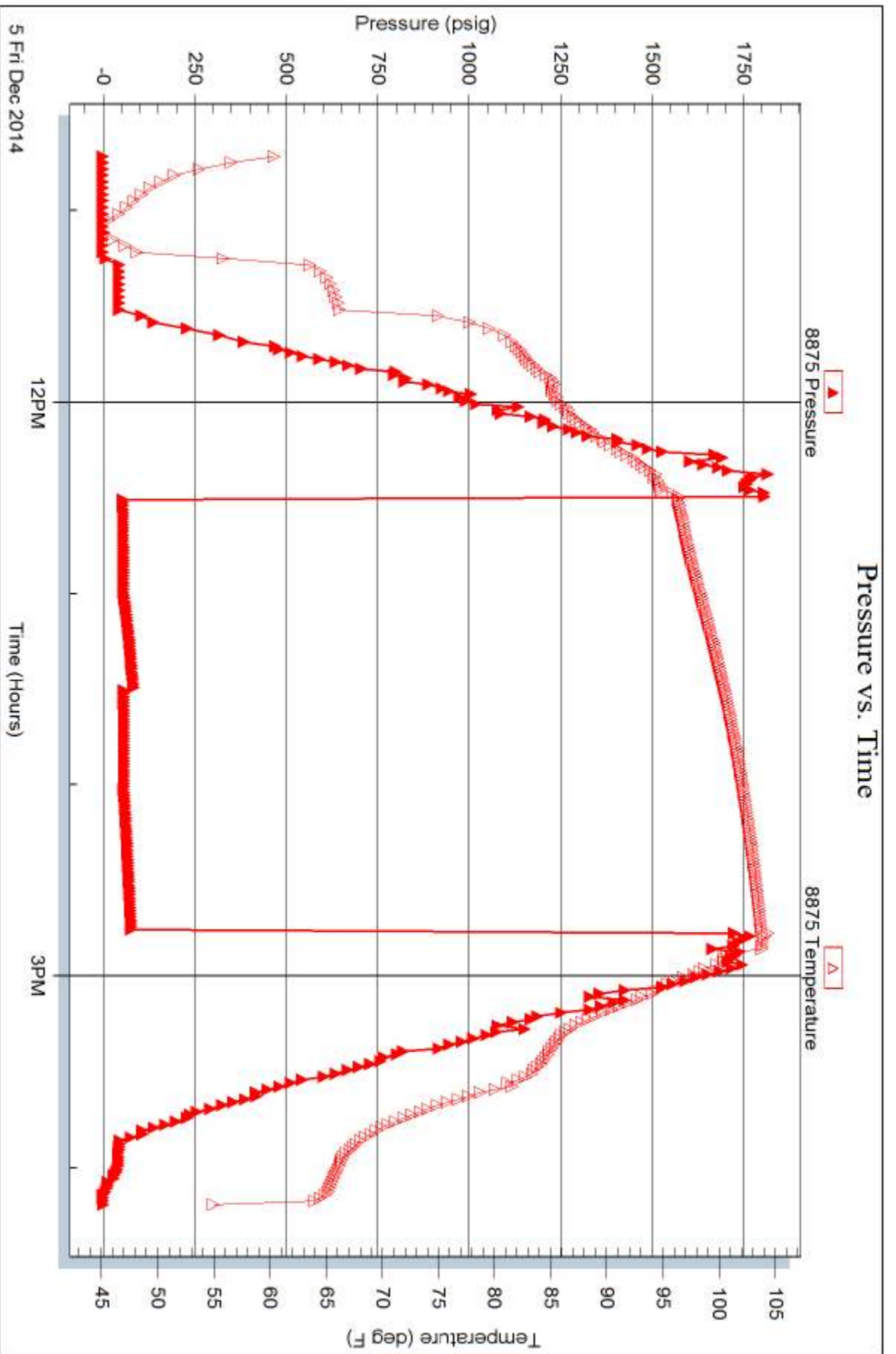


Serial #: 8875

Outside Charter Energy

Schmidt Farm Unit #1

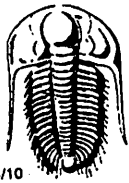
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 62102

Printed: 2014.12.10 @ 14:30:17



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60300

4/10

Well Name & No. Schmidt Farm Unit #1 Test No. 1 Date 12-4-14  
 Company Charter Energy Elevation 1970 KB 1978 GL  
 Address PO Box 252 Great Bend Ks 67530  
 Co. Rep / Geo. Clint Muscrow Rig Royal Drilling Rig 2  
 Location: Sec. 22 Twp. 15S Rge. 17W Co. Ellis State Ks

Interval Tested 3300 - 3380 Zone Tested Lansing A-F  
 Anchor Length 80 Drill Pipe Run 3290 Mud Wt. 8.8  
 Top Packer Depth 3295 Drill Collars Run 0 Vis 60  
 Bottom Packer Depth 3300 Wt. Pipe Run 50,000 WL 7.2  
 Total Depth 3380 Chlorides 2300 ppm System LCM 2

Blow Description Initial open - weak building blow built to 2 inches.  
Initial shut-in - No blow back.  
Final Flow - weak building blow built to 2 inches.  
Final shut-in - No blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>very light oil spot mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1644  Test 1150 T-On Location 8:00am  
 (B) First Initial Flow 49  Jars \_\_\_\_\_ T-Started 8:51am  
 (C) First Final Flow 60  Safety Joint \_\_\_\_\_ T-Open 10:17am  
 (D) Initial Shut-In 795  Circ Sub \_\_\_\_\_ T-Pulled 1:02pm  
 (E) Second Initial Flow 56  Hourly Standby \_\_\_\_\_ T-Out \_\_\_\_\_  
 (F) Second Final Flow 63  Mileage 128 198.40 Comments \_\_\_\_\_  
 (G) Final Shut-In 795  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1570  Straddle \_\_\_\_\_

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1348.40  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1348.40

Approved By \_\_\_\_\_ Our Representative Dustin Ellis

TriLOBite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62101

Well Name & No. Schmidt Farms Unit #1 Test No. 2 Date 12-5-14  
 Company Charter Energy Elevation 1970 KB 1978 GL  
 Address Po Box 252 Great Bend KS 67530  
 Co. Rep / Geo. Clint Muscrow Rig Royal Drilling  
 Location: Sec. 22 Twp. 15s Rge. 17w Co. Ellis State KS

Interval Tested 3510-3583 Zone Tested Arbuckle  
 Anchor Length 73 Drill Pipe Run 3512 Mud Wt. 9.0  
 Top Packer Depth 3505 Drill Collars Run 0 Vis 46  
 Bottom Packer Depth 3510 Wt. Pipe Run 53,000 WL 7.8  
 Total Depth 3583 Chlorides 2406 ppm System LCM 1

Blow Description Initial open - weak blow built to 12 inch.  
Initial shut in - No blowback  
Final Flow - Dead  
Final shut in - No blowback.

Rec	Feet of	%gas	%oil	%water	%mud
5	mud			100	

Rec Total 5 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

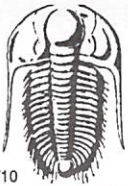
(A) Initial Hydrostatic 1173  Test 1150 T-On Location 12:00pm  
 (B) First Initial Flow 48  Jars \_\_\_\_\_ T-Started 12:42pm  
 (C) First Final Flow 50  Safety Joint \_\_\_\_\_ T-Open 2:04pm  
 (D) Initial Shut-In 74  Circ Sub \_\_\_\_\_ T-Pulled 480  
 (E) Second Initial Flow 51  Hourly Standby \_\_\_\_\_ T-Out 515  
 (F) Second Final Flow 56  Mileage 128 198.40 Comments \_\_\_\_\_  
 (G) Final Shut-In 600  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1720  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow ~~30~~  
 Final Shut-In ~~30~~

Sub Total 1348.40 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Dustin Ellis

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62102

4/10

Well Name & No. Schmid Farms Unit #1 Test No. 3 Date 12-5-14  
 Company Charter Energy Elevation 1970 KB 1978 GL  
 Address PO Box 252 Great Bend KS 67530  
 Co. Rep / Geo. Clint Muscrow Rig Royal Drilling  
 Location: Sec. 22 Twp. 15s Rge. 17w Co. Ellis State KS

Interval Tested 3510-3590 Zone Tested Arbuckle  
 Anchor Length 80 Drill Pipe Run 3512 Mud Wt. 9.0  
 Top Packer Depth 3505 Drill Collars Run 0 Vis 46  
 Bottom Packer Depth 3510 Wt. Pipe Run \_\_\_\_\_ WL 7.8  
 Total Depth 3590 Chlorides 2400 ppm System LCM 1

Blow Description Initial open - weak blow built to  
Initial shut-in - No blow back  
Final Flow - Dead  
Final Shut-in - No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>mud</u>			<u>100</u>	
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 10 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1813  Test 1150 T-On Location 10:15pm  
 (B) First Initial Flow 53  Jars \_\_\_\_\_ T-Started 10:42pm  
 (C) First Final Flow 55  Safety Joint \_\_\_\_\_ T-Open 12:30am  
 (D) Initial Shut-In 83  Circ Sub \_\_\_\_\_ T-Pulled 3:00am  
 (E) Second Initial Flow 50  Hourly Standby \_\_\_\_\_ T-Out \_\_\_\_\_  
 (F) Second Final Flow 56  Mileage 128 198.40 Comments \_\_\_\_\_  
 (G) Final Shut-In 70  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1727  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_  
 Final Flow 30  Day Standby \_\_\_\_\_  
 Final Shut-In 45  Accessibility \_\_\_\_\_  
 Sub Total 1348.40 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Dustin Ellis

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