



DRILL STEM TEST REPORT

Prepared For: **Charter Energy**

PO Box 252
Great Bend, KS 67530

ATTN: Jim Musgrove

Blackwell Unit #1

23-22s-15w Pawnee,KS

Start Date: 2013.11.15 @ 21:21:53

End Date: 2013.11.16 @ 02:22:08

Job Ticket #: 52518 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.11.20 @ 14:19:26

Charter Energy
23-22s-15w Pawnee,KS
Blackwell Unit #1
DST # 1
LKC "A & B"
2013.11.15



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Charter Energy
 PO Box 252
 Great Bend, KS 67530
 ATTN: Jim Musgrove

23-22s-15w Pawnee, KS
Blackwell Unit #1
 Job Ticket: 52518 **DST#: 1**
 Test Start: 2013.11.15 @ 21:21:53

GENERAL INFORMATION:

Formation: **LKC "A & B"**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 22:45:23 Tester: Leal Cason
 Time Test Ended: 02:22:08 Unit No: 45
Interval: 3517.00 ft (KB) To 3570.00 ft (KB) (TVD) Reference Elevations: 1977.00 ft (KB)
 Total Depth: 3570.00 ft (KB) (TVD) 1971.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 6.00 ft

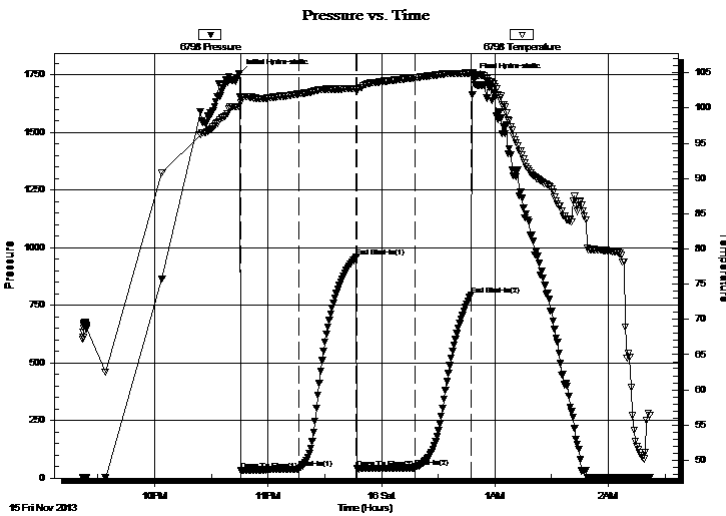
Serial #: 6798

Inside

Press@RunDepth: 45.65 psig @ 3518.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.15 End Date: 2013.11.16 Last Calib.: 2013.11.16
 Start Time: 21:21:54 End Time: 02:22:08 Time On Btm: 2013.11.15 @ 22:45:08
 Time Off Btm: 2013.11.16 @ 00:48:23

TEST COMMENT: IF: Weak 3/4 inch Blow
 IS: No Blow Back
 FF: Weak 3/4 inch Blow
 FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1756.70	101.58	Initial Hydro-static
1	32.58	100.79	Open To Flow (1)
32	40.81	102.02	Shut-In(1)
62	958.95	102.81	End Shut-In(1)
62	41.89	102.61	Open To Flow (2)
93	45.65	104.31	Shut-In(2)
123	795.91	104.98	End Shut-In(2)
124	1740.07	104.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SOSM 1%O 99%M	0.42

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Charter Energy
 PO Box 252
 Great Bend, KS 67530
 ATTN: Jim Musgrove

23-22s-15w Pawnee, KS
Blackwell Unit #1
 Job Ticket: 52518 **DST#: 1**
 Test Start: 2013.11.15 @ 21:21:53

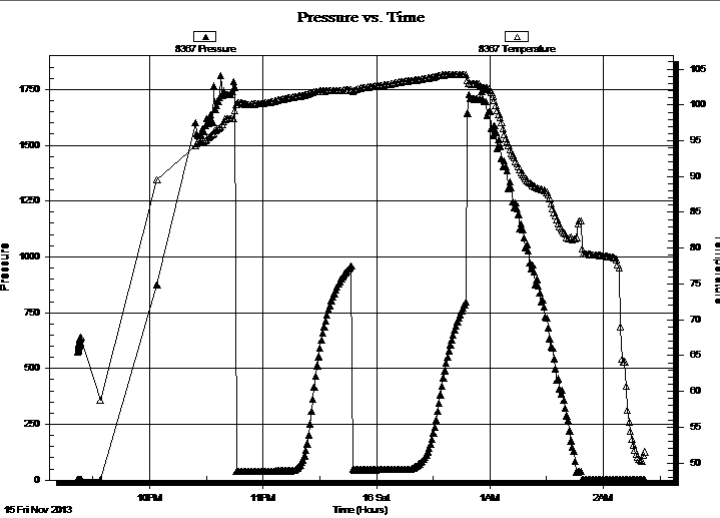
GENERAL INFORMATION:

Formation: **LKC "A & B"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:45:23
 Time Test Ended: 02:22:08
Interval: 3517.00 ft (KB) To 3570.00 ft (KB) (TVD)
 Total Depth: 3570.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)
 Tester: Leal Cason
 Unit No: 45
 Reference Elevations: 1977.00 ft (KB)
 1971.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 8367 Outside
 Press@RunDepth: psig @ 3518.00 ft (KB)
 Start Date: 2013.11.15 End Date: 2013.11.16
 Start Time: 21:21:54 End Time: 02:22:08
 Capacity: 8000.00 psig
 Last Calib.: 2013.11.16
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Weak 3/4 inch Blow
 IS: No Blow Back
 FF: Weak 3/4 inch Blow
 FS: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SOSM 1%O 99%M	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy

23-22s-15w Pawnee, KS

PO Box 252
Great Bend, KS 67530

Blackwell Unit #1

Job Ticket: 52518

DST#: 1

ATTN: Jim Musgrove

Test Start: 2013.11.15 @ 21:21:53

Tool Information

Drill Pipe:	Length: 3520.00 ft	Diameter: 3.80 inches	Volume: 49.38 bbl	Tool Weight: 2100.00 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: 58000.00 lb
			<u>Total Volume: 49.38 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3517.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	72.00 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			3503.00	
Hydraulic tool	5.00			3508.00	
Packer	5.00			3513.00	19.00 Bottom Of Top Packer
Packer	4.00			3517.00	
Stubb	1.00			3518.00	
Recorder	0.00	6798	Inside	3518.00	
Recorder	0.00	8367	Outside	3518.00	
Perforations	5.00			3523.00	
Change Over Sub	1.00			3524.00	
Drill Pipe	32.00			3556.00	
Change Over Sub	1.00			3557.00	
Perforations	10.00			3567.00	
Bullnose	3.00			3570.00	53.00 Bottom Packers & Anchor

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy

23-22s-15w Pawnee,KS

PO Box 252
Great Bend, KS 67530

Blackwell Unit #1

Job Ticket: 52518 **DST#: 1**

ATTN: Jim Musgrove

Test Start: 2013.11.15 @ 21:21:53

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6400.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SOSM 1%O 99%M	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:

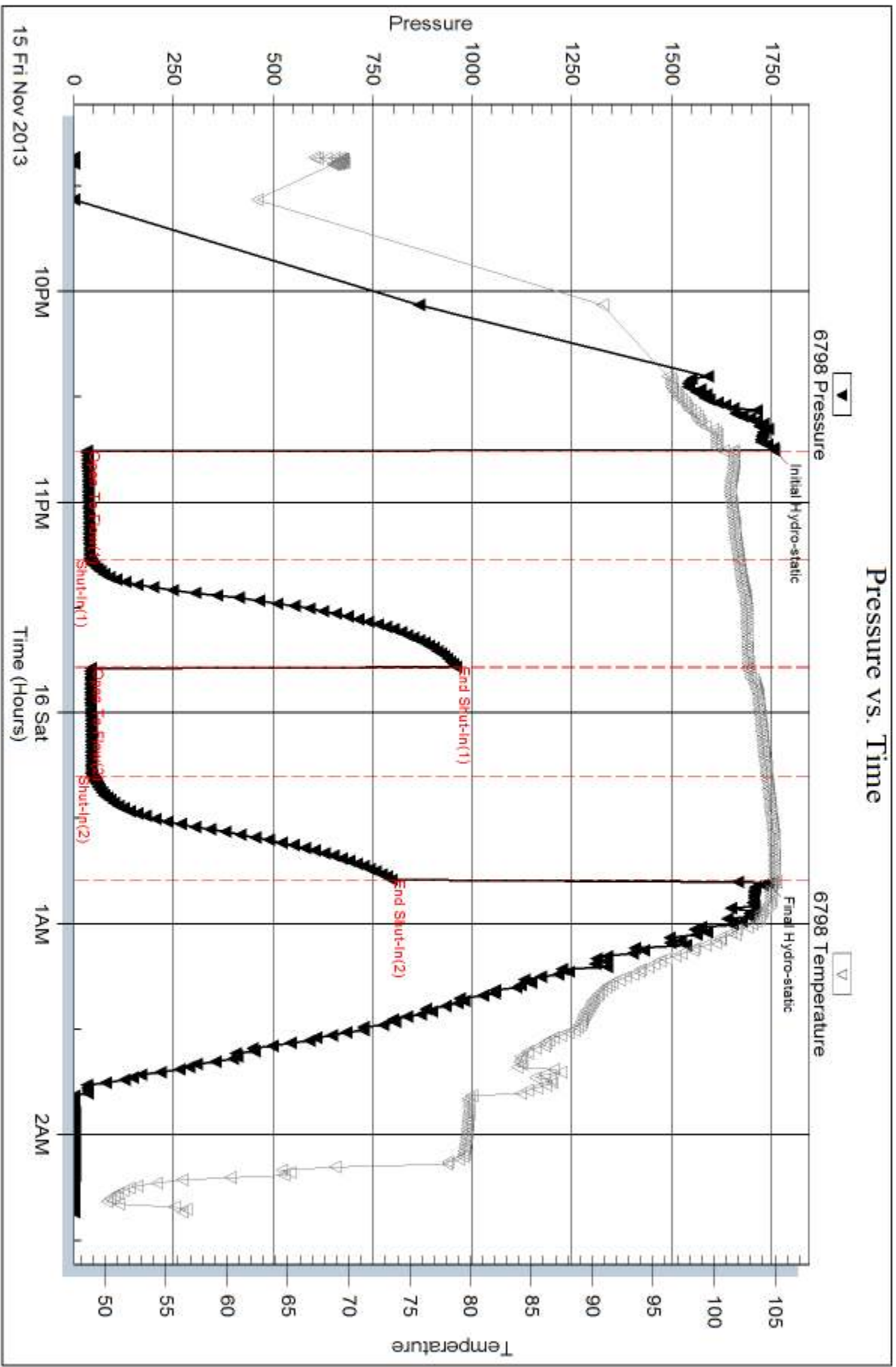
Serial #: 6798

Inside

Charter Energy

Blackwell Unit #1

DST Test Number: 1

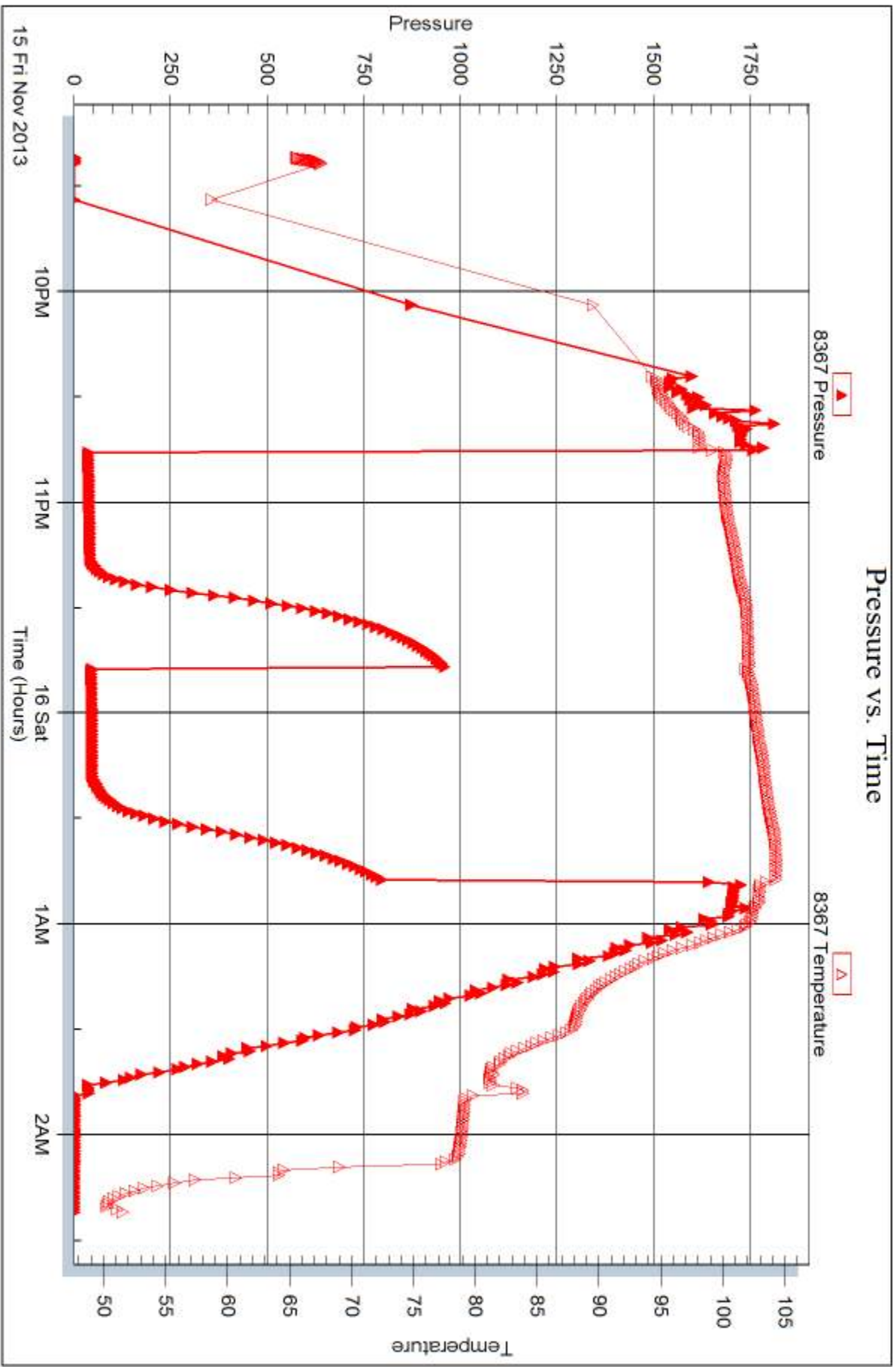


Serial #: 8367

Outside Charter Energy

Blackwell Unit #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Charter Energy**

PO Box 252
Great Bend, KS 67530

ATTN: Jim Musgrove

Blackwell Unit #1

23-22s-15w Pawnee,KS

Start Date: 2013.11.16 @ 11:49:42

End Date: 2013.11.16 @ 17:30:42

Job Ticket #: 52519 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.11.20 @ 14:18:47



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Charter Energy
PO Box 252
Great Bend, KS 67530
ATTN: Jim Musgrove

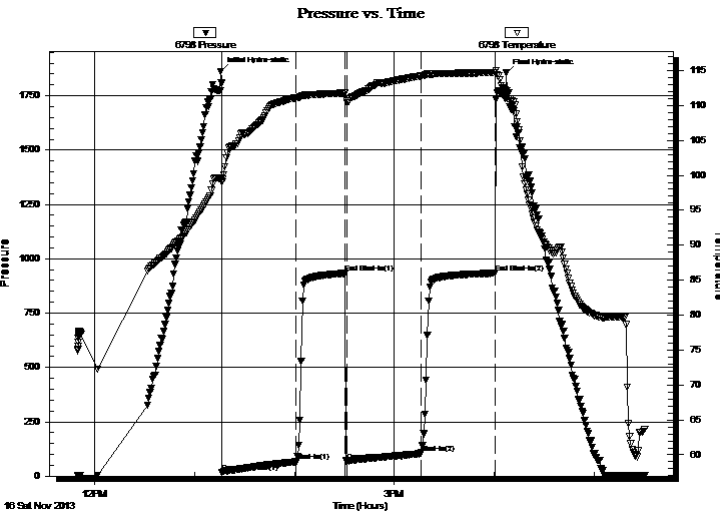
23-22s-15w Pawnee, KS
Blackwell Unit #1
Job Ticket: 52519 **DST#: 2**
Test Start: 2013.11.16 @ 11:49:42

GENERAL INFORMATION:

Formation: **Lansing "H"**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 13:16:27 Tester: Leal Cason
Time Test Ended: 17:30:42 Unit No: 45
Interval: 3641.00 ft (KB) To 3670.00 ft (KB) (TVD) Reference Elevations: 1977.00 ft (KB)
Total Depth: 3670.00 ft (KB) (TVD) 1971.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 6.00 ft

Serial #: 6798 Inside
Press@RunDepth: 103.69 psig @ 3642.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.11.16 End Date: 2013.11.16 Last Calib.: 2013.11.16
Start Time: 11:49:43 End Time: 17:30:42 Time On Btm: 2013.11.16 @ 13:15:42
Time Off Btm: 2013.11.16 @ 16:06:57

TEST COMMENT: IF: Weak Blow , Built to 4 inches
IS: No Blow Back
FF: Weak 1 1/2 inch Blow
FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1862.34	99.58	Initial Hydro-static
1	18.11	99.10	Open To Flow (1)
46	66.32	111.07	Shut-In(1)
75	933.02	111.78	End Shut-In(1)
76	70.21	110.42	Open To Flow (2)
120	103.69	114.22	Shut-In(2)
165	933.75	114.68	End Shut-In(2)
172	1853.52	111.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	Water	2.61

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Charter Energy
 PO Box 252
 Great Bend, KS 67530
 ATTN: Jim Musgrove

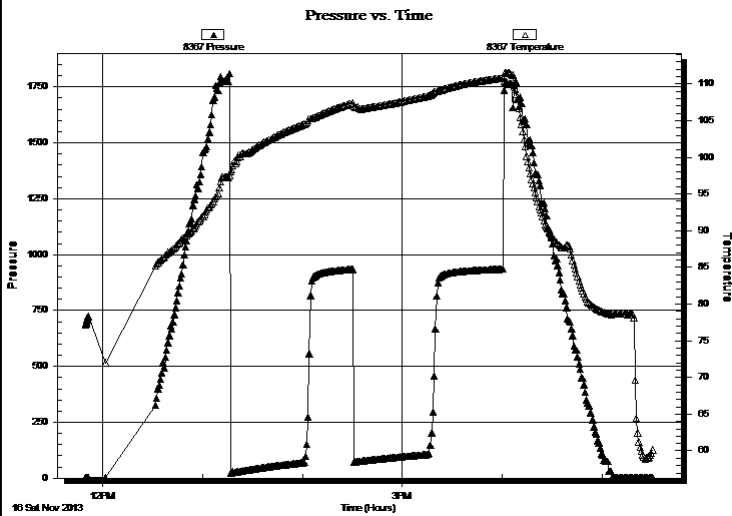
23-22s-15w Pawnee, KS
Blackwell Unit #1
 Job Ticket: 52519 **DST#: 2**
 Test Start: 2013.11.16 @ 11:49:42

GENERAL INFORMATION:

Formation: **Lansing "H"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:16:27
 Time Test Ended: 17:30:42
 Interval: **3641.00 ft (KB) To 3670.00 ft (KB) (TVD)**
 Total Depth: 3670.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 45
 Reference Elevations: 1977.00 ft (KB)
 1971.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 8367 Outside
 Press@RunDepth: psig @ 3642.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.16 End Date: 2013.11.16 Last Calib.: 2013.11.16
 Start Time: 11:49:43 End Time: 17:30:42 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Weak Blow , Built to 4 inches
 IS: No Blow Back
 FF: Weak 1 1/2 inch Blow
 FS: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
186.00	Water	2.61

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy

23-22s-15w Pawnee, KS

PO Box 252
Great Bend, KS 67530

Blackwell Unit #1

Job Ticket: 52519

DST#: 2

ATTN: Jim Musgrove

Test Start: 2013.11.16 @ 11:49:42

Tool Information

Drill Pipe:	Length: 3646.00 ft	Diameter: 3.80 inches	Volume: 51.14 bbl	Tool Weight: 2100.00 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: 60000.00 lb
			<u>Total Volume: 51.14 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3641.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	48.00 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			3627.00	
Hydraulic tool	5.00			3632.00	
Packer	5.00			3637.00	19.00 Bottom Of Top Packer
Packer	4.00			3641.00	
Stubb	1.00			3642.00	
Recorder	0.00	6798	Inside	3642.00	
Recorder	0.00	8367	Outside	3642.00	
Perforations	25.00			3667.00	
Bullnose	3.00			3670.00	29.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy

23-22s-15w Pawnee,KS

PO Box 252
Great Bend, KS 67530

Blackwell Unit #1

Job Ticket: 52519

DST#: 2

ATTN: Jim Musgrove

Test Start: 2013.11.16 @ 11:49:42

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:

75000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6400.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	Water	2.609

Total Length: 186.00 ft Total Volume: 2.609 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

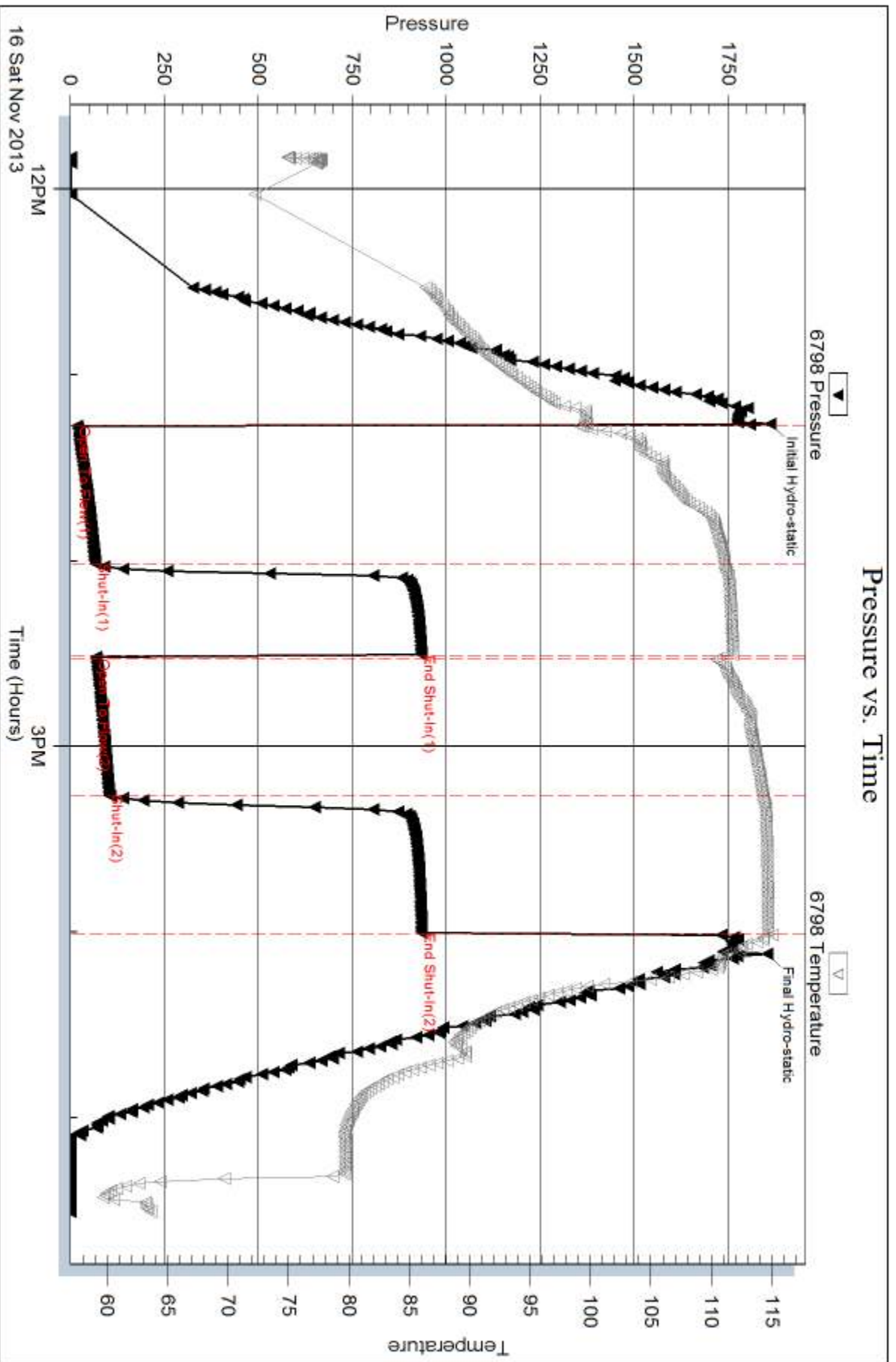
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .11 @ 66 degrees

Pressure vs. Time

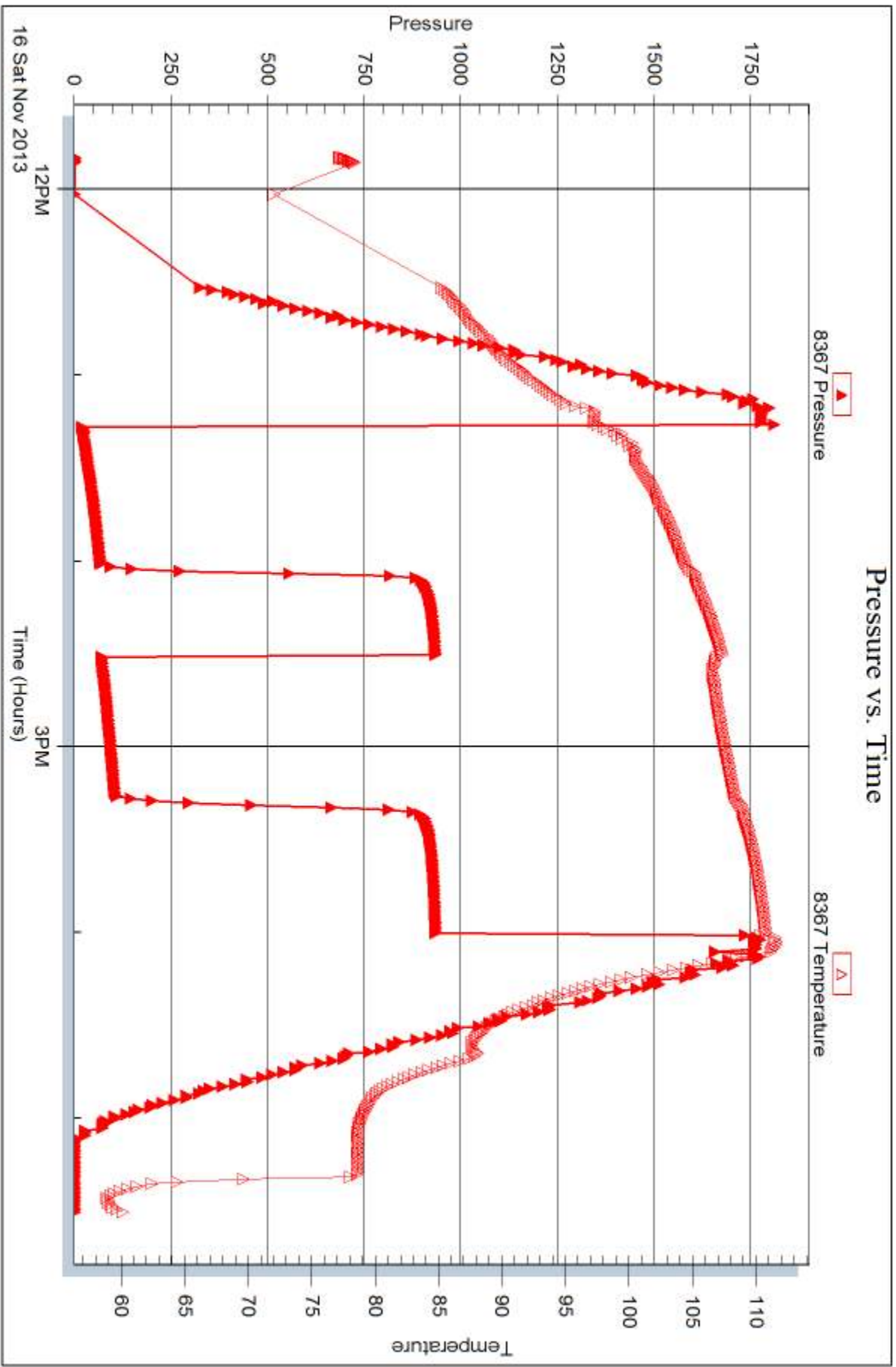


Serial #: 8367

Outside Charter Energy

Blackwell Unit #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 52519

Printed: 2013.11.20 @ 14:18:50



DRILL STEM TEST REPORT

Prepared For: **Charter Energy**

PO Box 252
Great Bend, KS 67530

ATTN: Jim Musgrove

Blackwell Unit #1

23-22s-15w Pawnee,KS

Start Date: 2013.11.17 @ 18:10:36

End Date: 2013.11.17 @ 23:11:51

Job Ticket #: 52520 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.11.20 @ 14:17:39

Charter Energy
23-22s-15w Pawnee,KS
Blackwell Unit #1
DST # 3
Simpson
2013.11.17



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Charter Energy
PO Box 252
Great Bend, KS 67530
ATTN: Jim Musgrove

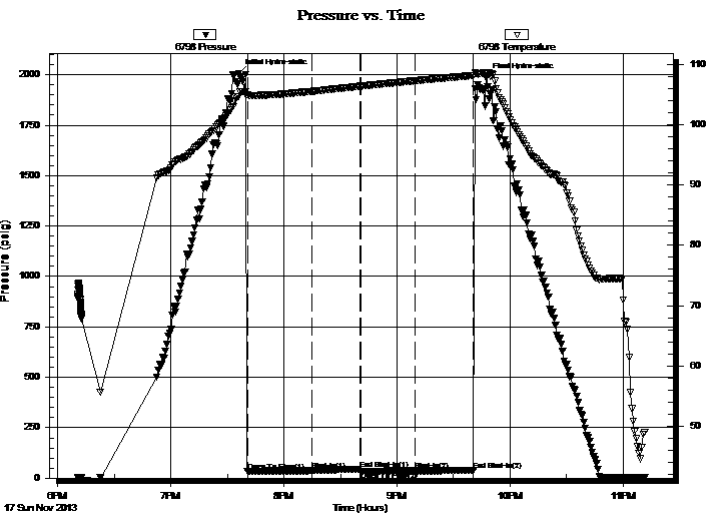
23-22s-15w Pawnee, KS
Blackwell Unit #1
Job Ticket: 52520 **DST#: 3**
Test Start: 2013.11.17 @ 18:10:36

GENERAL INFORMATION:

Formation: **Simpson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:40:36
Time Test Ended: 23:11:51
Interval: **3918.00 ft (KB) To 3981.00 ft (KB) (TVD)**
Total Depth: 3981.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 45
Reference Elevations: 1977.00 ft (KB)
1971.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 6798 Inside
Press@RunDepth: 36.99 psig @ 3919.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.11.17 End Date: 2013.11.17 Last Calib.: 2013.11.17
Start Time: 18:10:37 End Time: 23:11:51 Time On Btm: 2013.11.17 @ 19:36:06
Time Off Btm: 2013.11.17 @ 21:47:21

TEST COMMENT: IF: Weak Blow , Built to 1 1/2 inch
IS: No Blow Back
FF: Weak Surface Blow , Dead @ 15 minutes
FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2007.00	104.70	Initial Hydro-static
5	32.35	105.00	Open To Flow (1)
39	37.53	105.58	Shut-In(1)
64	45.34	106.42	End Shut-In(1)
65	33.27	106.43	Open To Flow (2)
94	36.99	107.35	Shut-In(2)
125	39.46	108.24	End Shut-In(2)
132	1983.77	108.71	Final Hydro-static

Recovery

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

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Charter Energy
 PO Box 252
 Great Bend, KS 67530
 ATTN: Jim Musgrove

23-22s-15w Pawnee, KS
Blackwell Unit #1
 Job Ticket: 52520 **DST#: 3**
 Test Start: 2013.11.17 @ 18:10:36

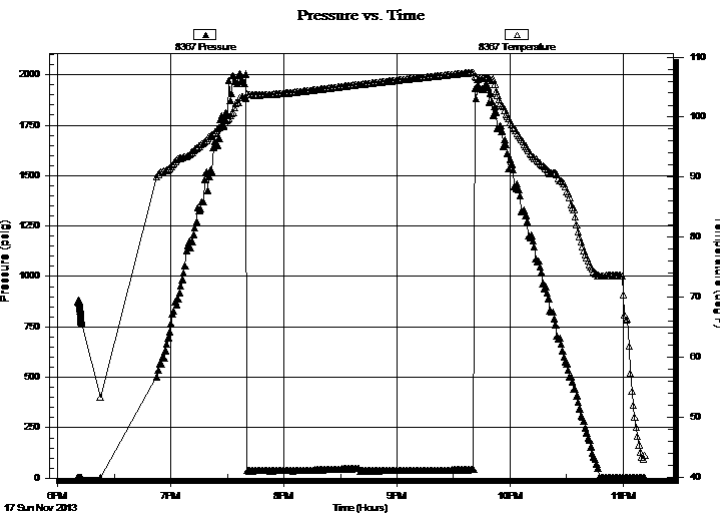
GENERAL INFORMATION:

Formation: **Simpson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:40:36
 Time Test Ended: 23:11:51
Interval: 3918.00 ft (KB) To 3981.00 ft (KB) (TVD)
 Total Depth: 3981.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 45
 Reference Elevations: 1977.00 ft (KB)
 1971.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 8367 Outside
 Press@RunDepth: psig @ 3919.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.17 End Date: 2013.11.17 Last Calib.: 2013.11.17
 Start Time: 18:10:37 End Time: 23:11:51 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Weak Blow , Built to 1 1/2 inch
 IS: No Blow Back
 FF: Weak Surface Blow , Dead @ 15 minutes
 FS: No Blow Back



PRESSURE SUMMARY

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

Recovery

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

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy

23-22s-15w Pawnee, KS

PO Box 252
Great Bend, KS 67530

Blackwell Unit #1

Job Ticket: 52520

DST#: 3

ATTN: Jim Musgrove

Test Start: 2013.11.17 @ 18:10:36

Tool Information

Drill Pipe:	Length: 3932.00 ft	Diameter: 3.80 inches	Volume: 55.16 bbl	Tool Weight: 2100.00 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: 65000.00 lb
			<u>Total Volume: 55.16 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3918.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.00 ft			
Tool Length:	82.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3904.00	
Hydraulic tool	5.00			3909.00	
Packer	5.00			3914.00	19.00 Bottom Of Top Packer
Packer	4.00			3918.00	
Stubb	1.00			3919.00	
Recorder	0.00	6798	Inside	3919.00	
Recorder	0.00	8367	Outside	3919.00	
Perforations	5.00			3924.00	
Change Over Sub	1.00			3925.00	
Drill Pipe	32.00			3957.00	
Change Over Sub	1.00			3958.00	
Perforations	20.00			3978.00	
Bullnose	3.00			3981.00	63.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy

23-22s-15w Pawnee,KS

PO Box 252
Great Bend, KS 67530

Blackwell Unit #1

Job Ticket: 52520

DST#: 3

ATTN: Jim Musgrove

Test Start: 2013.11.17 @ 18:10:36

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6400.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

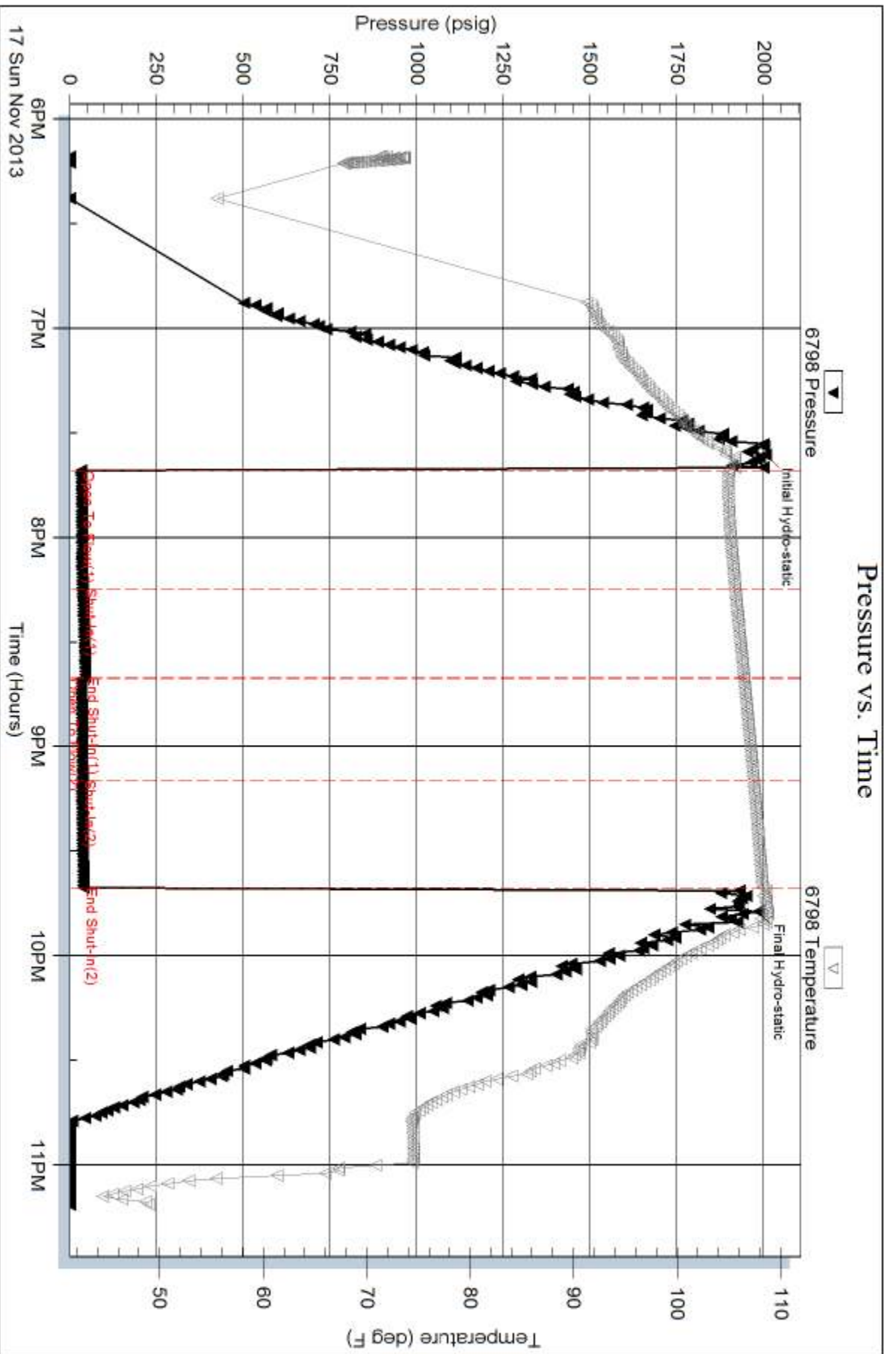
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

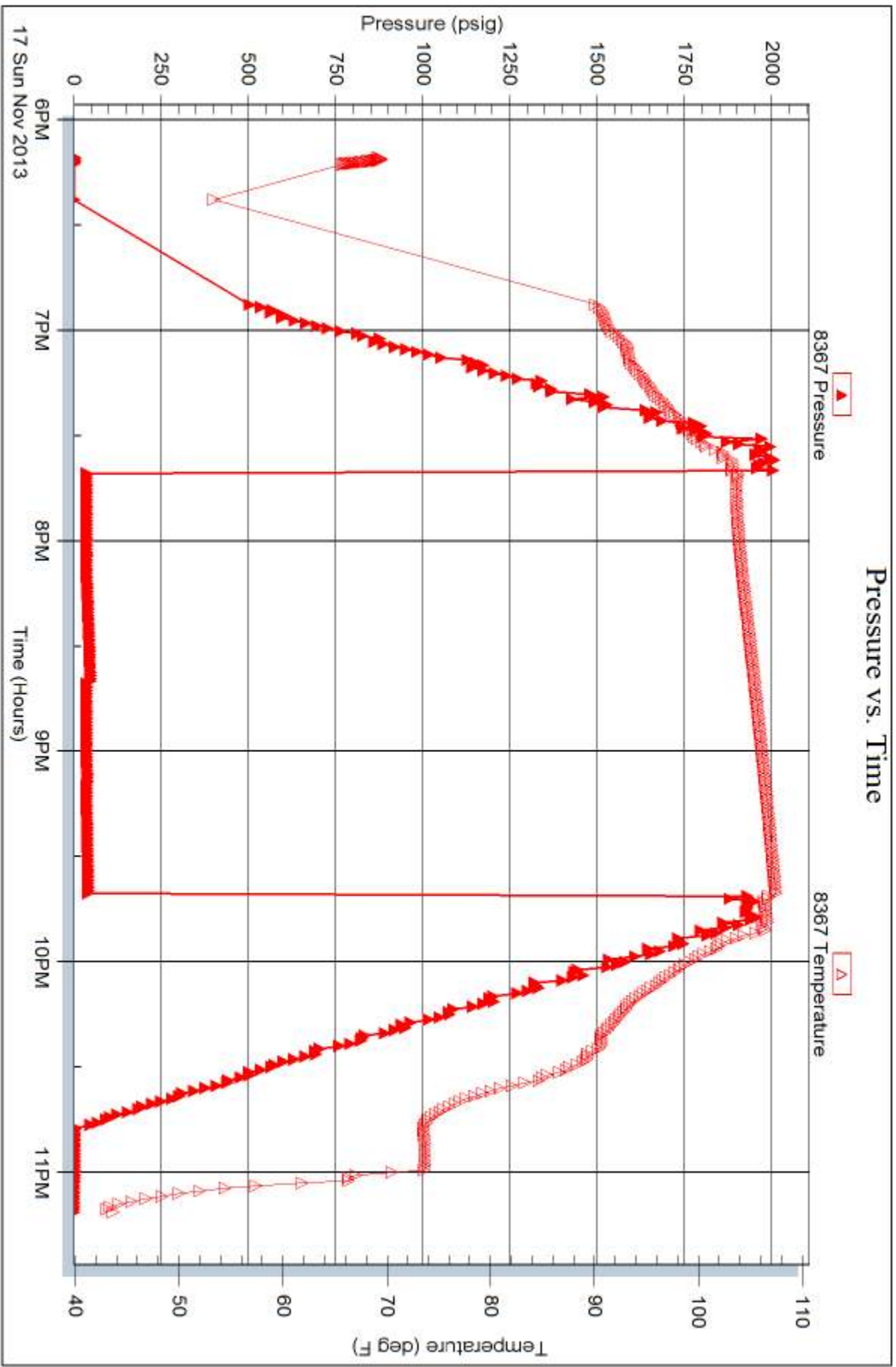


Serial #: 8367

Outside Charter Energy

Blackwell Unit #1

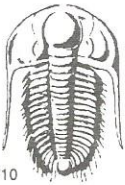
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 52520

Printed: 2013.11.20 @ 14:17:42



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52518

Well Name & No. Blackwell Unit 1 Test No. 1 Date 11/15/13
 Company Charter Energy Elevation 1977 KB 1971 GL
 Address PO Box 252 Great Bend, KS 67530
 Co. Rep / Geo. Jim Musgrove Rig Royal 1
 Location: Sec. 23 Twp. 22S Rge. 15W Co. Pawnee State KS

Interval Tested 3517 - 3570 Zone Tested Lansing "A+B"
 Anchor Length 53 Drill Pipe Run 3520 Mud Wt. 9.0
 Top Packer Depth 3512 Drill Collars Run 0 Vis 51
 Bottom Packer Depth 3517 Wt. Pipe Run 0 WL 8.4
 Total Depth 3570 Chlorides 6400 ppm System LCM 1

Blow Description IF: weak 3/4 inch Blow
ISF: No Blow Back
FF: weak 3/4 inch Blow
FSI: No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>505m</u>			<u>99</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

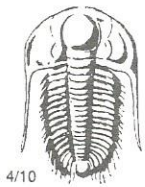
Rec Total 30 BHT 105 Gravity NIC API RW NIC @ NIC °F Chlorides NIC ppm

(A) Initial Hydrostatic 1757 Test 1150 T-On Location 20:30
 (B) First Initial Flow 33 Jars _____ T-Started 21:21
 (C) First Final Flow 41 Safety Joint _____ T-Open 22:45
 (D) Initial Shut-In 959 Circ Sub _____ T-Pulled 00:47
 (E) Second Initial Flow 42 Hourly Standby _____ T-Out 02:22
 (F) Second Final Flow 46 Mileage 90 139.50 Comments _____
 (G) Final Shut-In 796 Sampler _____
 (H) Final Hydrostatic 1740 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 30 Accessibility _____
 Sub Total 1289.50

Approved By _____ Our Representative [Signature]

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. 52519

Well Name & No. Blackwell unit 1 Test No. 2 Date 11/16/13
 Company Charter Energy Elevation 1977 KB 1971 GL
 Address PO Box 252 Great Bend, KS 67530
 Co. Rep / Geo. Jim Musgrove Rig Royal 1
 Location: Sec. 23 Twp. 22S Rge. 15W Co. Pawnee State KS

Interval Tested 3641 - 3670 Zone Tested Lansing "H"
 Anchor Length 29 Drill Pipe Run 3646 Mud Wt. 9.3
 Top Packer Depth 3636 Drill Collars Run 0 Vis 50
 Bottom Packer Depth 3641 Wt. Pipe Run 0 WL 10.0
 Total Depth 3670 Chlorides 7500 ppm System LCM 1/2

Blow Description IF: weak Blow, Built to 4 inches
ISI: NO Blow Back

FF: weak 1 1/2 inch Blow
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>186</u>	<u>water</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

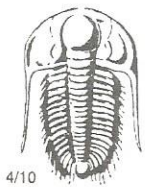
Rec Total 186 BHT 115 Gravity NIC API RW .11 @ 66 °F Chlorides 75000 ppm

(A) Initial Hydrostatic 1862 Test 1150 T-On Location 11:15
 (B) First Initial Flow 18 Jars _____ T-Started 11:49
 (C) First Final Flow 66 Safety Joint _____ T-Open 13:16
 (D) Initial Shut-In 933 Circ Sub _____ T-Pulled 16:00
 (E) Second Initial Flow 70 Hourly Standby _____ T-Out 17:30
 (F) Second Final Flow 104 Mileage (90) 139.50 Comments _____
 (G) Final Shut-In 934 Sampler _____
 (H) Final Hydrostatic 1253 Straddle _____

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 45 Extra Packer _____
 Initial Shut-In 30 Extra Recorder _____
 Final Flow 45 Day Standby _____
 Final Shut-In 45 Accessibility _____
 Sub Total 1289.50

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52520

Well Name & No. Blackwell unit 1 Test No. 3 Date 11/17/13
 Company Charter Energy Elevation 1977 KB 1971 GL _____
 Address PO Box 252 Great Bend KS 67530
 Co. Rep / Geo. Jim Musgrove Rig Royal 1
 Location: Sec. 23 Twp. 22S Rge. 15W Co. Pawnee State KS

Interval Tested 3918 - 3981 Zone Tested ~~15W~~ Simpson
 Anchor Length 63 Drill Pipe Run 3932 Mud Wt. 9.3
 Top Packer Depth 3913 Drill Collars Run 0 Vis 54
 Bottom Packer Depth 3918 Wt. Pipe Run 0 WL 10.0
 Total Depth 3981 Chlorides 6300 ppm System LCM 1

Blow Description IF: weak blow, built to 1 1/2 inch
ISF: NO BLOW BACK
FF: weak surface blow, dead @ 15 minutes
FSI: NO BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud</u>				
_____	_____				
_____	_____				
_____	_____				
_____	_____				

Rec Total 10 BHT 108 Gravity NIC API RW NIC @ NIC °F Chlorides NIC ppm

(A) Initial Hydrostatic <u>2007</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>17:15</u>
(B) First Initial Flow <u>32</u>	<input type="checkbox"/> Jars _____	T-Started <u>18:10</u>
(C) First Final Flow <u>38</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>19:40</u>
(D) Initial Shut-In <u>45</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>21:40</u>
(E) Second Initial Flow <u>33</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>23:11</u>
(F) Second Final Flow <u>37</u>	<input checked="" type="checkbox"/> Mileage <u>90</u> <u>139.50</u>	Comments _____
(G) Final Shut-In <u>39</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1984</u>	<input type="checkbox"/> Straddle _____	_____

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1289.50</u>
	Sub Total <u>1289.50</u>	MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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