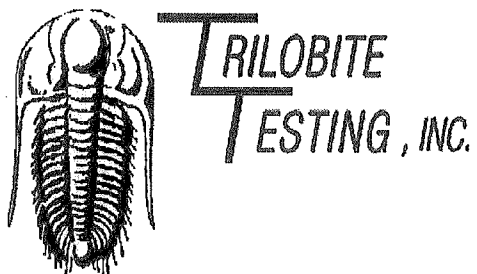


15-009-25402

7-16s-13w

Shel



DRILL STEM TEST REPORT

Prepared For: **Charter Energy, INC.**

Po Box Great Bend Ks
67530-0252

ATTN: Jim Musgrove

7-16-13 Barton KS

Gary Bitter # 1

Start Date: 2010.04.04 @ 19:12:51

End Date: 2010.04.05 @ 01:00:21

Job Ticket #: 38490 DST #: 1

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

RECEIVED
AUG 30 2010
KCC WICHITA

Charter Energy, INC.

Gary Bitter # 1

7-16-13 Barton KS

DST # 1

Lansing H-K

2010.04.04



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Charter Energy, INC.

Po Box Great Bend Ks
67530-0252

ATTN: Jim Musgrove

Gary Bitter # 1

7-16-13 Barton KS

Job Ticket: 38490

DST#: 1

Test Start: 2010.04.04 @ 19:12:51

GENERAL INFORMATION:

Formation: **Lansing H-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:12:21

Time Test Ended: 01:00:21

Test Type: Conventional Bottom Hole

Tester: Jeff Brown

Unit No: 44

Interval: **3267.00 ft (KB) To 3350.00 ft (KB) (TVD)**

Total Depth: 3350.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1933.00 ft (KB)

1928.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6668

Inside

Press@RunDepth: 15.37 psig @ 3272.00 ft (KB)

Start Date: 2010.04.04

End Date:

2010.04.05

Start Time: 19:12:52

End Time:

01:00:21

Capacity: 8000.00 psig

Last Calib.: 2010.04.05

Time On Btm: 2010.04.04 @ 21:11:21

Time Off Btm: 2010.04.04 @ 23:30:21

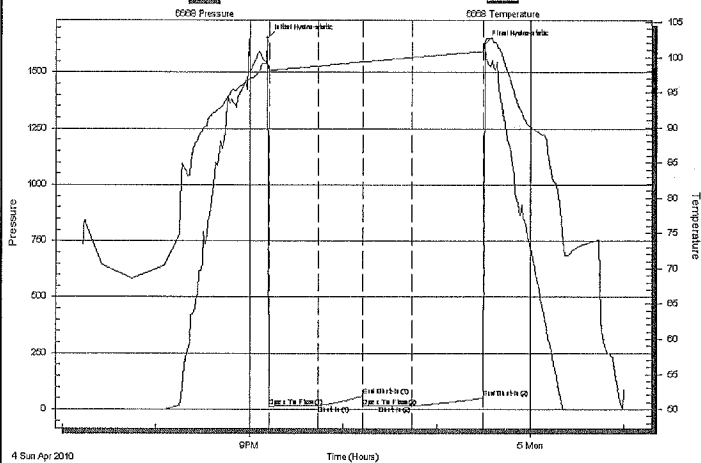
TEST COMMENT: IFF- Weak blow built to 1/2 in

ISI- Dead no blow back

FFP-Dead no blow

FSI- Dead no blow back

Pressure vs. Time



PRESSURE SUMMARY

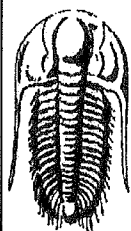
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1652.49	99.07	Initial Hydro-static
1	14.52	98.23	Open To Flow (1)
33	15.38	98.76	Shut-In(1)
61	59.63	99.38	End Shut-In(1)
62	15.48	99.39	Open To Flow (2)
93	15.37	100.00	Shut-In(2)
138	50.20	100.87	End Shut-In(2)
139	1624.40	102.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	OCM 10%O 90%M	0.01
1.00	VOCM 30%O 70%M	0.01

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, INC.

Gary Bitter # 1

Po Box Great Bend Ks
67530-0252

7-16-13 Barton KS

Job Ticket: 38490

DST#: 1

ATTN: Jim Musgrove

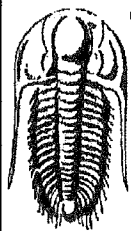
Test Start: 2010.04.04 @ 19:12:51

Tool Information

Drill Pipe:	Length: 3254.00 ft	Diameter: 3.80 inches	Volume: 45.65 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	48000.00 lb
		Total Volume:	45.65 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	39000.00 lb
Depth to Top Packer:	3267.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	83.00 ft				
Tool Length:	104.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3247.00	
Shut In Tool	5.00			3252.00	
Hydraulic tool	5.00			3257.00	
Packer	5.00			3262.00	21.00 Bottom Of Top Packer
Packer	5.00			3267.00	
Stubb	1.00			3268.00	
Perforations	4.00			3272.00	
Recorder	0.00	6668	Inside	3272.00	
Recorder	0.00	6669	Outside	3272.00	
Change Over Sub	1.00			3273.00	
Blank Spacing	63.00			3336.00	
Change Over Sub	1.00			3337.00	
Perforations	10.00			3347.00	
Bullnose	3.00			3350.00	83.00 Bottom Packers & Anchor
Total Tool Length:	104.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, INC.

Gary Bitter # 1

Po Box Great Bend Ks
67530-0252

7-16-13 Barton KS

Job Ticket: 38490

DST#: 1

ATTN: Jim Musgrove

Test Start: 2010.04.04 @ 19:12:51

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	OCM 10%O 90%M	0.014
1.00	VOCM 30%O 70%M	0.014

Total Length: 2.00 ft

Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

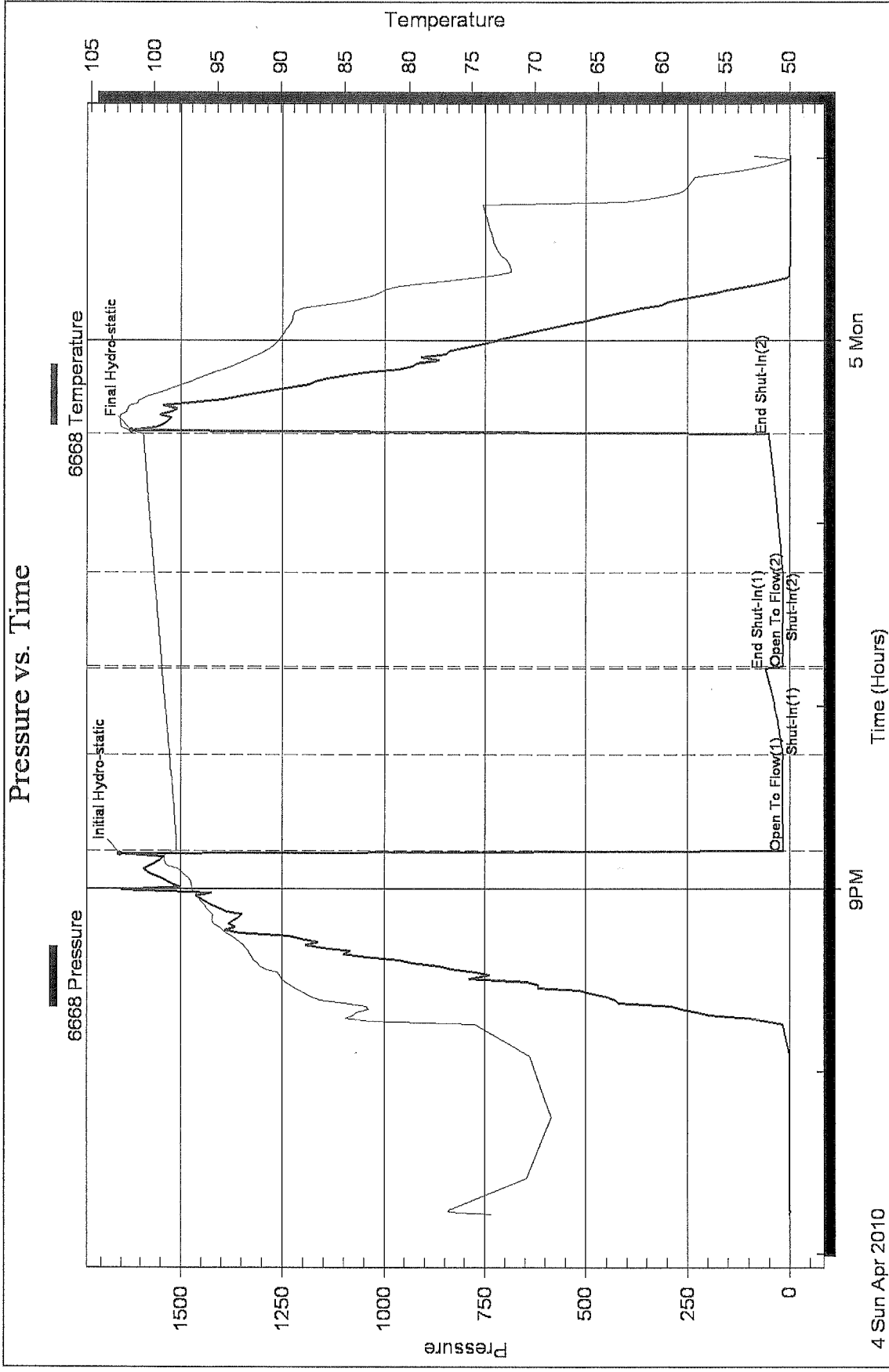
Serial #:

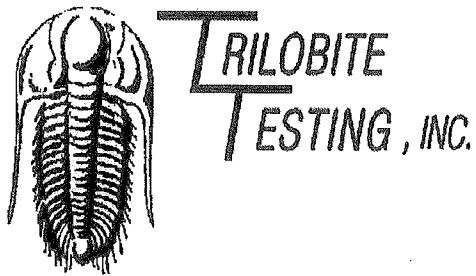
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Charter Energy, INC.**

Po Box Great Bend Ks
67530-0252

ATTN: Jim Musgrove

7-16-13 Barton KS

Gary Bitter # 1

Start Date: 2010.04.05 @ 09:08:36

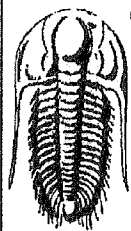
End Date: 2010.04.05 @ 15:00:06

Job Ticket #: 38491 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

Charter Energy, INC.

Gary Bitter # 1

Po Box Great Bend Ks
67530-0252

7-16-13 Barton KS

Job Ticket: 38491

DST#: 2

ATTN: Jim Musgrove

Test Start: 2010.04.05 @ 09:08:36

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:34:36

Time Test Ended: 15:00:06

Test Type: Conventional Bottom Hole

Tester: Jeff Brown

Unit No: 44

Interval: **3353.00 ft (KB) To 3373.00 ft (KB) (TVD)**

Reference Elevations: 1933.00 ft (KB)

Total Depth: 3350.00 ft (KB) (TVD)

1928.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6668 Inside

Press@RunDepth: 133.79 psig @ 3358.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.05

End Date: 2010.04.05

Last Calib.: 2010.04.05

Start Time: 09:08:37

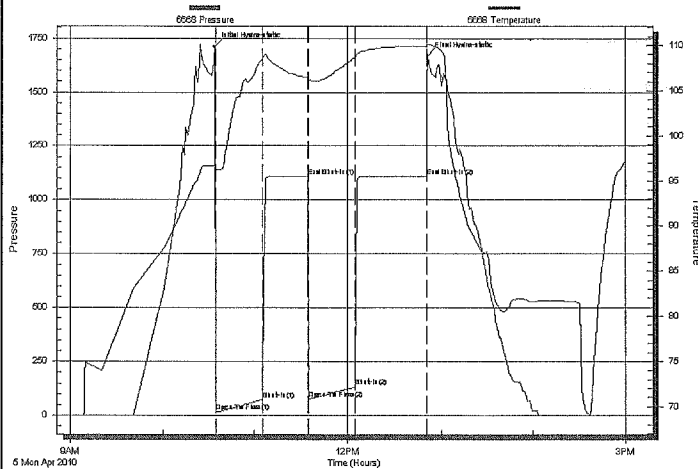
End Time: 15:00:06

Time On Btm: 2010.04.05 @ 10:34:06

Time Off Btm: 2010.04.05 @ 12:51:36

TEST COMMENT: IFF- Fair blow BOB in 1 min
ISI- Weak blow back built to 1/2 in died back to 1/4 in
FFP- Fair blow BOB in 13 min
FSI- Weak surface blow

Pressure vs. Time



PRESSURE SUMMARY

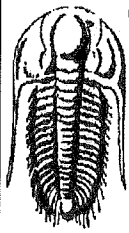
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1712.20	96.63	Initial Hydro-static
1	18.85	95.63	Open To Flow (1)
31	73.49	108.50	Shut-In(1)
61	1109.76	106.45	End Shut-In(1)
61	76.83	106.11	Open To Flow (2)
91	133.79	108.73	Shut-In(2)
137	1109.82	109.88	End Shut-In(2)
138	1669.99	110.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP 186'	0.00
15.00	HOCWM 45%O5%W50%M	0.21
325.00	FREE OIL	4.56

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, INC.

Gary Bitter # 1

Po Box Great Bend Ks
67530-0252

7-16-13 Barton KS

Job Ticket: 38491

DST#: 2

ATTN: Jim Musgrove

Test Start: 2010.04.05 @ 09:08:36

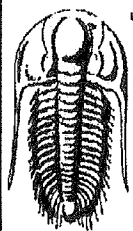
Tool Information

Drill Pipe:	Length: 3349.00 ft	Diameter: 3.80 inches	Volume: 46.98 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	48000.00 lb
			Total Volume: 46.98 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	39000.00 lb
Depth to Top Packer:	3353.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	41.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3333.00	
Shut In Tool	5.00			3338.00	
Hydraulic tool	5.00			3343.00	
Packer	5.00			3348.00	21.00 Bottom Of Top Packer
Packer	5.00			3353.00	
Stubb	1.00			3354.00	
Perforations	4.00			3358.00	
Recorder	0.00	6668	Inside	3358.00	
Recorder	0.00	6669	Outside	3358.00	
Perforations	12.00			3370.00	
Bullnose	3.00			3373.00	20.00 Bottom Packers & Anchor

Total Tool Length: 41.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, INC.

Gary Bitter # 1

Po Box Great Bend Ks
67530-0252

7-16-13 Barton KS

Job Ticket: 38491

DST#: 2

ATTN: Jim Musgrove

Test Start: 2010.04.05 @ 09:08:36

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GIP 186'	0.000
15.00	HOCWM 45%O5%W50%M	0.210
325.00	FREE OIL	4.559

Total Length: 340.00 ft

Total Volume: 4.769 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

