

DRILL STEM TEST REPORT

Prepared For: **Charter Energy Inc.**

PO Box 252
Great Bend KS 67530

ATTN: Kurt Talbot

Ottley #1

32-13s-29w Gove KS

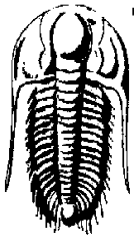
Start Date: 2012.07.28 @ 18:47:15

End Date: 2012.07.29 @ 00:05:15

Job Ticket #: 48980 DST #: 1

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

Printed: 2012.08.03 @ 14:42:51



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Charter Energy Inc.

32-13s-29w Gove KS

PO Box 252
Great Bend KS 67530

Ottley #1

Job Ticket: 48980

DST#: 1

ATTN: Kurt Talbot

Test Start: 2012.07.28 @ 18:47:15

GENERAL INFORMATION:

Formation: **Toront-A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:21:30

Time Test Ended: 00:05:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 48

Interval: 3819.00 ft (KB) To 3875.00 ft (KB) (TVD)

Reference Elevations: 2770.00 ft (KB)

Total Depth: 3819.00 ft (KB) (TVD)

2764.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8736 Inside

Press@RunDepth: 49.39 psig @ 3823.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.28

End Date:

2012.07.29

Last Calib.: 2012.07.29

Start Time: 18:47:15

End Time:

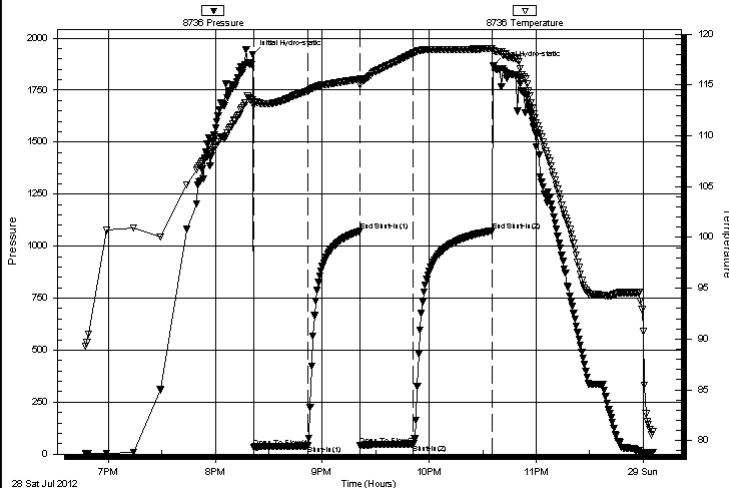
00:05:15

Time On Btm: 2012.07.28 @ 20:21:00

Time Off Btm: 2012.07.28 @ 22:36:00

TEST COMMENT: IF: Built to 1" blow
IS: No return blow
FF: No blow
FS: No return blow

Pressure vs. Time



PRESSURE SUMMARY

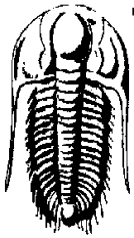
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1921.60	113.54	Initial Hydro-static
1	33.20	113.00	Open To Flow (1)
31	39.83	114.41	Shut-In(1)
60	1072.05	115.59	End Shut-In(1)
61	42.97	115.06	Open To Flow (2)
90	49.39	118.15	Shut-In(2)
135	1074.11	118.61	End Shut-In(2)
135	1868.19	118.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud 100% m	0.42

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Charter Energy Inc.

PO Box 252
Great Bend KS 67530

ATTN: Kurt Talbot

32-13s-29w Gove KS

Ottley #1

Job Ticket: 48980

DST#: 1

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Reference Elevations: 2770.00 ft (KB)

Total Depth: 3819.00 ft (KB) (TVD)

2764.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 6668 Outside

Press@RunDepth: psig @ 3823.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.28

End Date:

2012.07.29

Last Calib.:

2012.07.29

Start Time: 18:47:15

End Time:

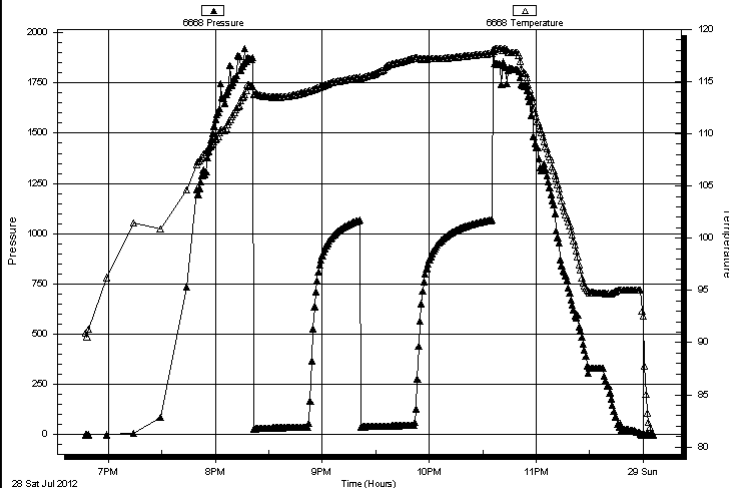
00:05:15

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Built to 1" blow
IS: No return blow
FF: No blow
FS: No return blow

Pressure vs. Time



PRESSURE SUMMARY

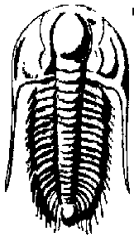
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud 100% m	0.42

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy Inc.

32-13s-29w Gove KS

PO Box 252
Great Bend KS 67530

Ottley #1

Job Ticket: 48980

DST#: 1

ATTN: Kurt Talbot

Test Start: 2012.07.28 @ 18:47:15

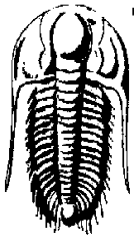
Tool Information

Drill Pipe:	Length:	3825.00 ft	Diameter:	3.80 inches	Volume:	53.65 bbl	Tool Weight:	1500.00 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:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	60000.00 lb
					Total Volume:	53.65 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		26.00 ft					String Weight: Initial	40000.00 lb
Depth to Top Packer:		3819.00 ft					Final	40000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		56.00 ft						
Tool Length:		76.00 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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Change Over Sub	1.00			3800.00	
Shut In Tool	5.00			3805.00	
Hydraulic tool	5.00			3810.00	
Packer	5.00			3815.00	20.00 Bottom Of Top Packer
Packer	4.00			3819.00	
Stubb	1.00			3820.00	
Perforations	3.00			3823.00	
Recorder	0.00	8736	Inside	3823.00	
Recorder	0.00	6668	Outside	3823.00	
Change Over Sub	1.00			3824.00	
Drill Pipe	30.00			3854.00	
Change Over Sub	1.00			3855.00	
Perforations	15.00			3870.00	
Bullnose	5.00			3875.00	56.00 Bottom Packers & Anchor

Total Tool Length: 76.00



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy Inc.

32-13s-29w Gove KS

PO Box 252
Great Bend KS 67530

Ottley #1

Job Ticket: 48980

DST#: 1

ATTN: Kurt Talbot

Test Start: 2012.07.28 @ 18:47:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	mud 100% 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 #: 8736

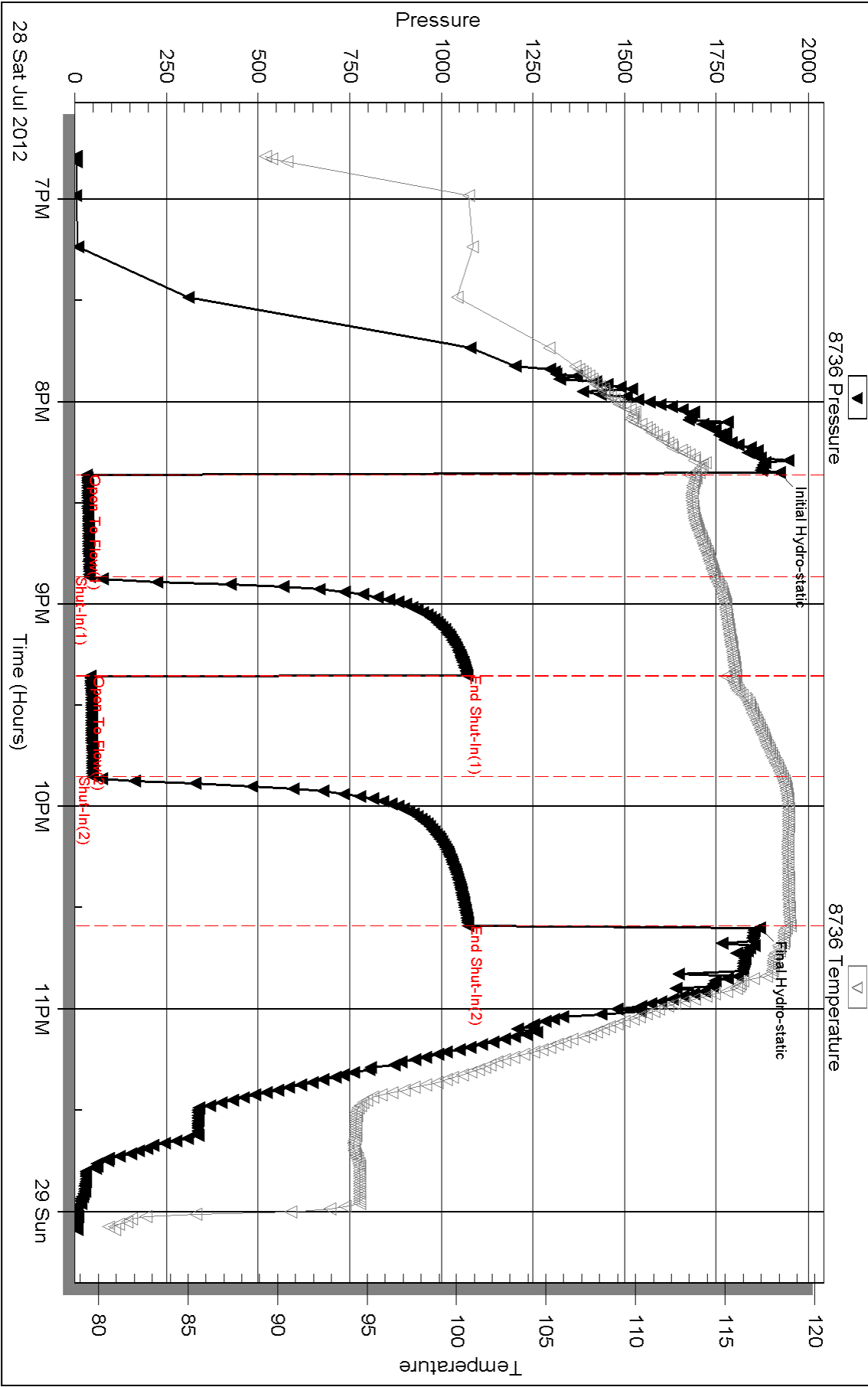
Inside

Charter Energy Inc.

Ottley #1

DST Test Number: 1

Pressure vs. Time

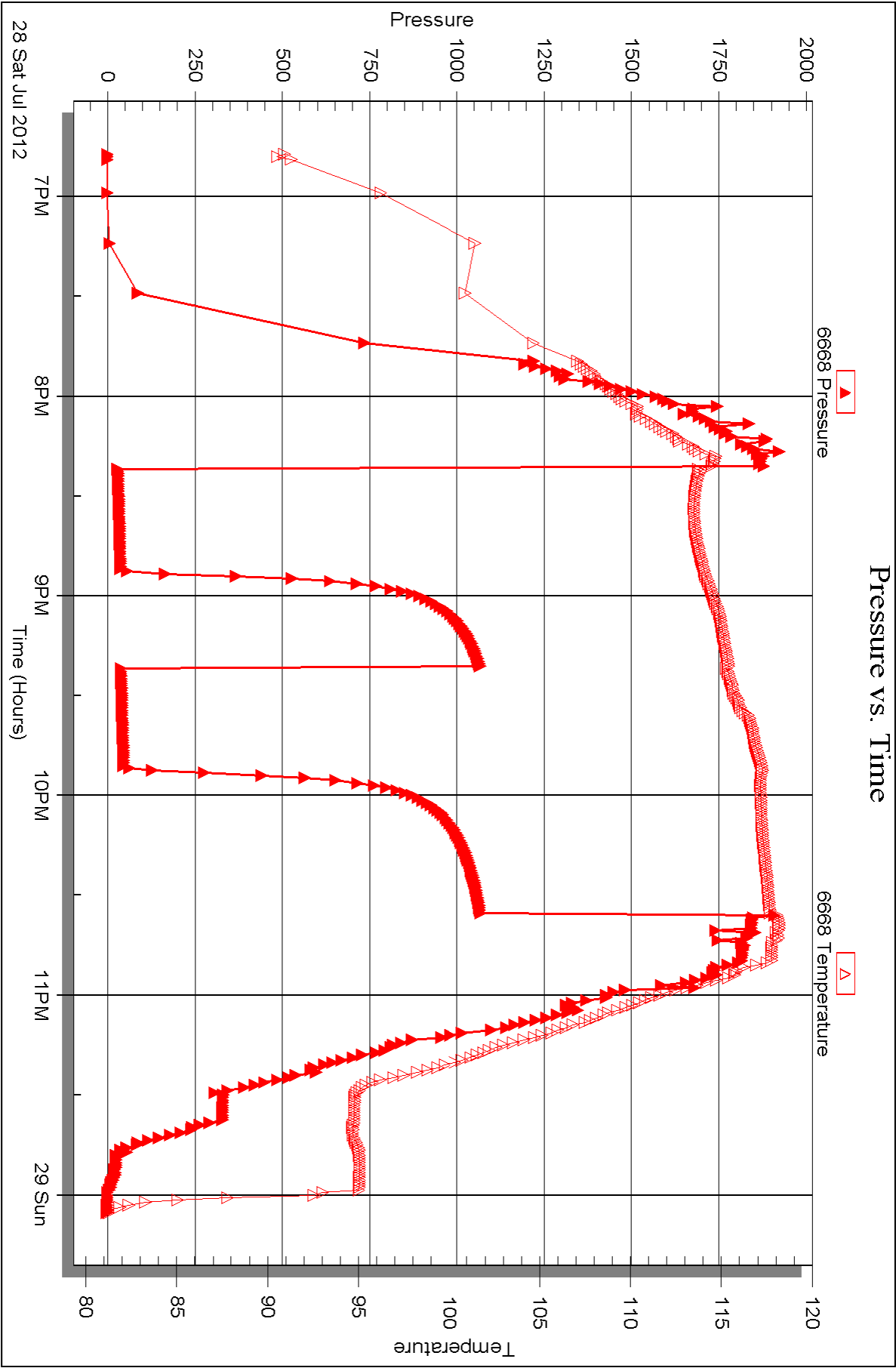


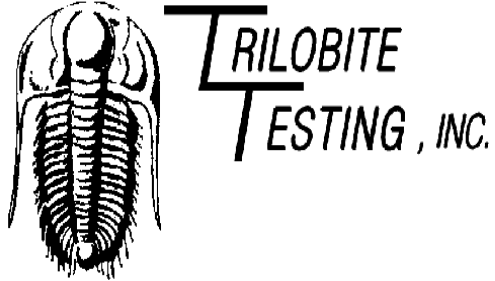
Serial #: 6668

Outside Charter Energy Inc.

Oilley #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Charter Energy Inc.**

PO Box 252
Great Bend KS 67530

ATTN: Kurt Talbot

Ottley #1

32-13s-29w Gove KS

Start Date: 2012.07.29 @ 13:00:15

End Date: 2012.07.29 @ 18:30:08

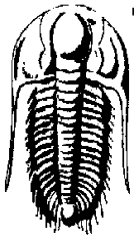
Job Ticket #: 48981 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.03 @ 14:41:57



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Charter Energy Inc.

PO Box 252
Great Bend KS 67530

ATTN: Kurt Talbot

32-13s-29w Gove KS

Ottley #1

Job Ticket: 48981

DST#: 2

Test Start: 2012.07.29 @ 13:00:15

GENERAL INFORMATION:

Formation: **B-E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:25:23

Time Test Ended: 18:30:08

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 3882.00 ft (KB) To 3950.00 ft (KB) (TVD)

Reference Elevations: 2770.00 ft (KB)

Total Depth: 3950.00 ft (KB) (TVD)

2764.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8736 Inside

Press@RunDepth: 63.47 psig @ 3886.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.29

End Date:

2012.07.29

Last Calib.: 2012.07.29

Start Time: 13:00:15

End Time:

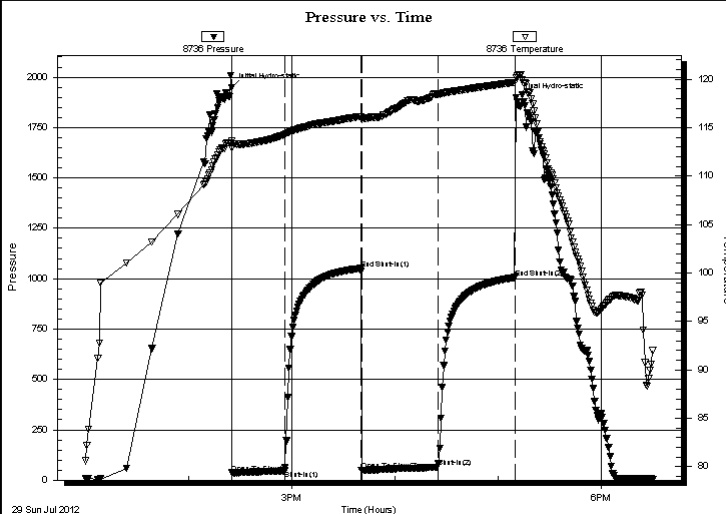
18:30:08

Time On Btm: 2012.07.29 @ 14:25:08

Time Off Btm: 2012.07.29 @ 17:10:23

TEST COMMENT: IF: Built to 1" blow
IS: No return blow
FF: Built to 1/2" blow
FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1946.79	113.59	Initial Hydro-static
1	35.58	112.91	Open To Flow (1)
31	46.20	114.27	Shut-In(1)
75	1050.38	116.15	End Shut-In(1)
76	48.41	115.81	Open To Flow (2)
120	63.47	118.42	Shut-In(2)
165	1005.48	119.67	End Shut-In(2)
166	1897.46	120.17	Final Hydro-static

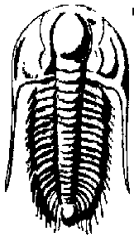
Recovery

Length (ft)	Description	Volume (bbl)
62.00	mud 100% m	0.87

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Charter Energy Inc.

PO Box 252
Great Bend KS 67530

ATTN: Kurt Talbot

32-13s-29w Gove KS

Ottley #1

Job Ticket: 48981

DST#: 2

Test Start: 2012.07.29 @ 13:00:15

GENERAL INFORMATION:

Formation: **B-E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:25:23

Time Test Ended: 18:30:08

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 3882.00 ft (KB) To 3950.00 ft (KB) (TVD)

Total Depth: 3950.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2770.00 ft (KB)

2764.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 6668 Outside

Press@RunDepth: psig @ 3886.00 ft (KB)

Start Date: 2012.07.29

End Date:

2012.07.29

Start Time: 12:57:08

End Time:

18:30:08

Capacity: 8000.00 psig

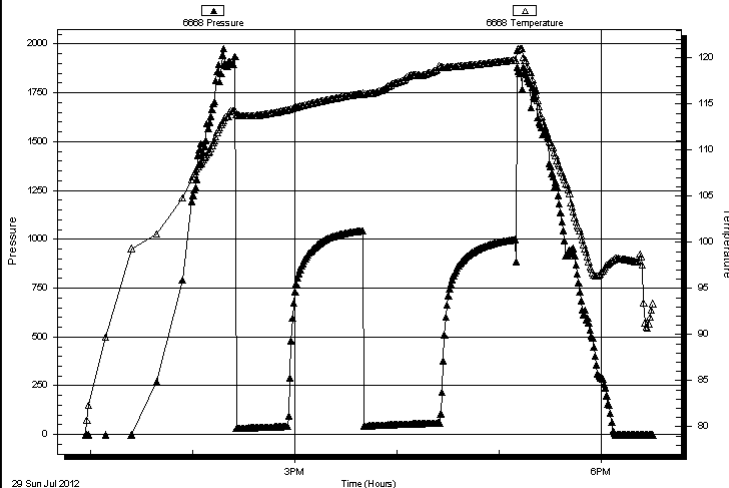
Last Calib.: 2012.07.29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Built to 1" blow
IS: No return blow
FF: Built to 1/2" blow
FS: No return blow

Pressure vs. Time



PRESSURE SUMMARY

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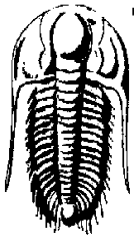
Recovery

Length (ft)	Description	Volume (bbl)
62.00	mud 100% m	0.87

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy Inc.

32-13s-29w Gove KS

PO Box 252
Great Bend KS 67530

Ottley #1

Job Ticket: 48981

DST#: 2

ATTN: Kurt Talbot

Test Start: 2012.07.29 @ 13:00:15

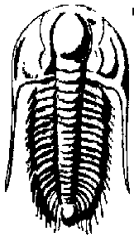
Tool Information

Drill Pipe:	Length:	3885.00 ft	Diameter:	3.80 inches	Volume:	54.50 bbl	Tool Weight:	1500.00 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:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	60000.00 lb
					Total Volume:	54.50 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		23.00 ft					String Weight: Initial	41000.00 lb
Depth to Top Packer:		3882.00 ft					Final	42000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		68.00 ft						
Tool Length:		88.00 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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Change Over Sub	1.00			3863.00	
Shut In Tool	5.00			3868.00	
Hydraulic tool	5.00			3873.00	
Packer	5.00			3878.00	20.00 Bottom Of Top Packer
Packer	4.00			3882.00	
Stubb	1.00			3883.00	
Perforations	3.00			3886.00	
Recorder	0.00	8736	Inside	3886.00	
Recorder	0.00	6668	Outside	3886.00	
Change Over Sub	1.00			3887.00	
Drill Pipe	31.00			3918.00	
Change Over Sub	1.00			3919.00	
Perforations	26.00			3945.00	
Bullnose	5.00			3950.00	68.00 Bottom Packers & Anchor

Total Tool Length: 88.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy Inc.

32-13s-29w Gove KS

PO Box 252
Great Bend KS 67530

Ottley #1

Job Ticket: 48981

DST#: 2

ATTN: Kurt Talbot

Test Start: 2012.07.29 @ 13:00:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	mud 100%m	0.870

Total Length: 62.00 ft

Total Volume: 0.870 bbl

Num Fluid Samples: 0

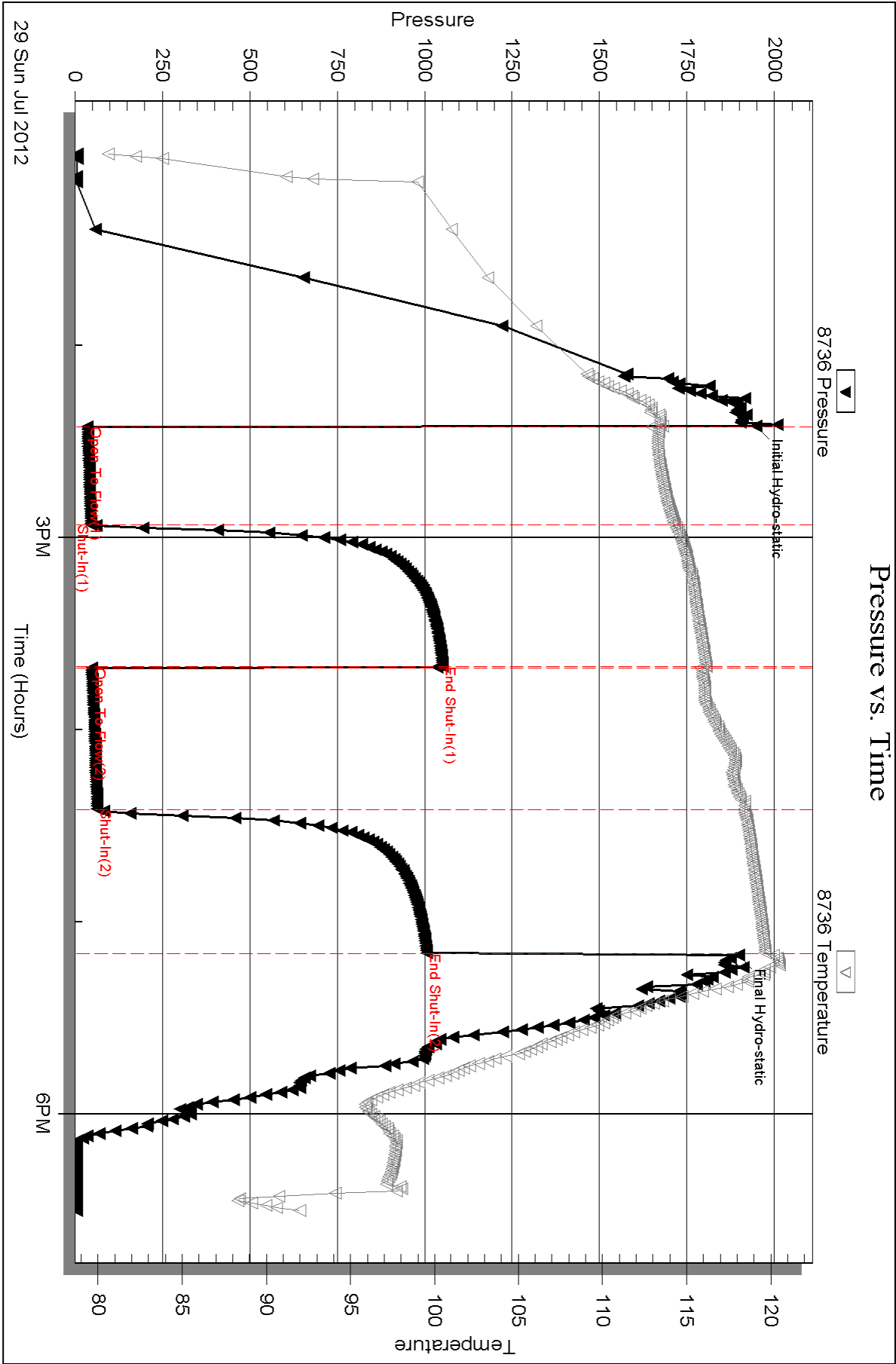
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

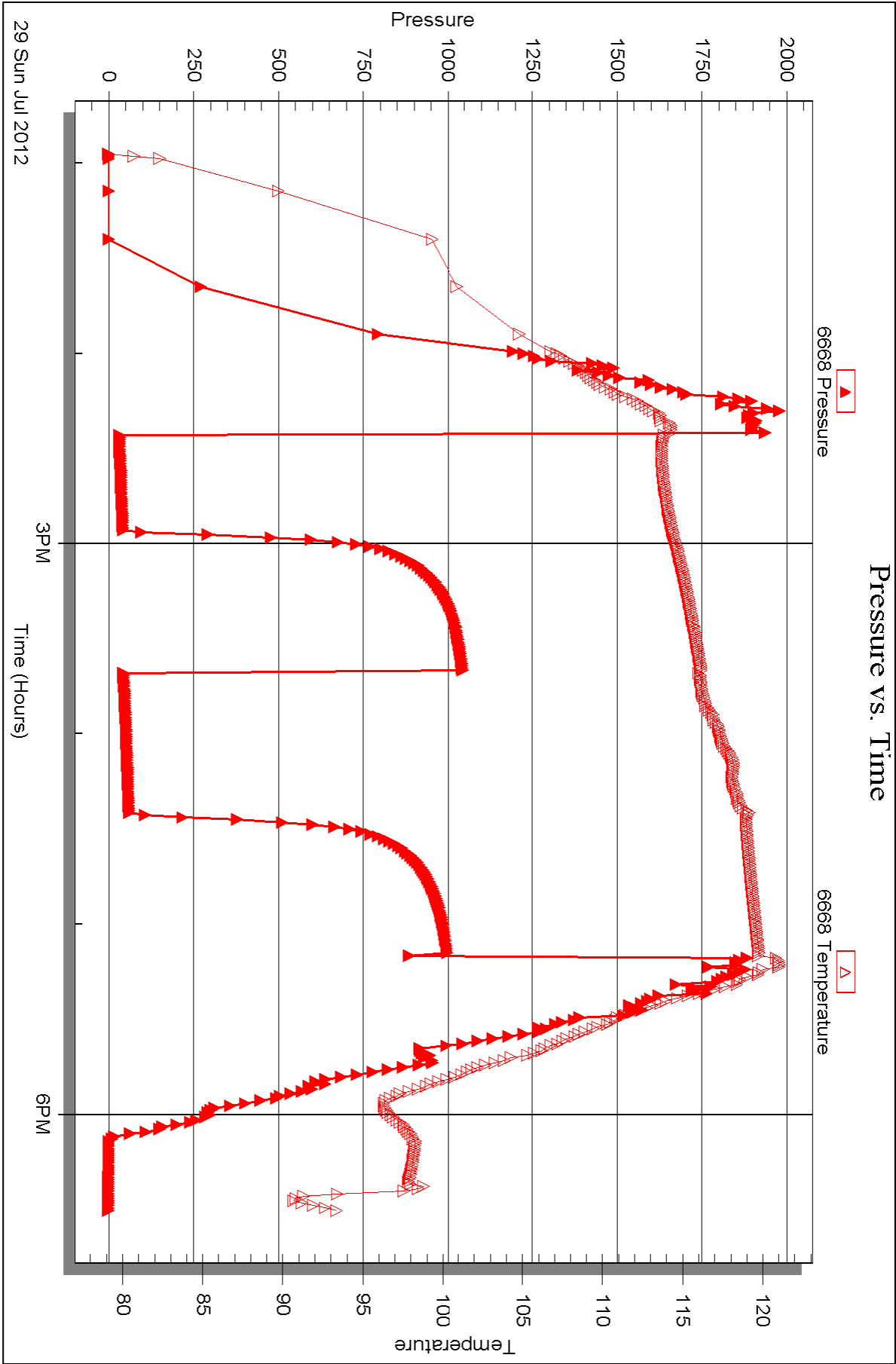


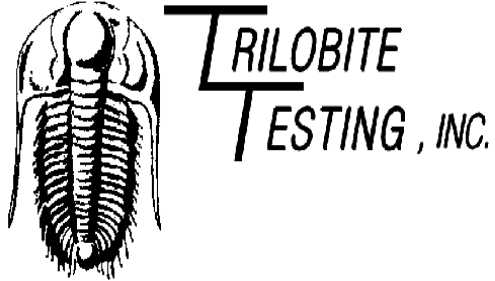
Serial #: 6668

Outside Charter Energy Inc.

Oilley #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Charter Energy Inc.**

PO Box 252
Great Bend KS 67530

ATTN: Kurt Talbot

Ottley #1

32-13s-29w Gove KS

Start Date: 2012.07.30 @ 18:08:15

End Date: 2012.07.31 @ 00:10:30

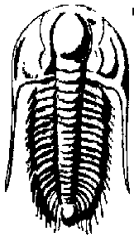
Job Ticket #: 48982 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.03 @ 14:40:37



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Charter Energy Inc.

32-13s-29w Gove KS

PO Box 252
Great Bend KS 67530

Ottley #1

Job Ticket: 48982

DST#: 3

ATTN: Kurt Talbot

Test Start: 2012.07.30 @ 18:08:15

GENERAL INFORMATION:

Formation: **J-K-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:32:45

Time Test Ended: 00:10:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4066.00 ft (KB) To 4155.00 ft (KB) (TVD)

Total Depth: 4155.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2770.00 ft (KB)

2764.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8736 Inside

Press@RunDepth: 108.34 psig @ 4070.00 ft (KB)

Start Date: 2012.07.30

End Date:

2012.07.31

Start Time: 18:08:15

End Time:

00:10:30

Capacity: 8000.00 psig

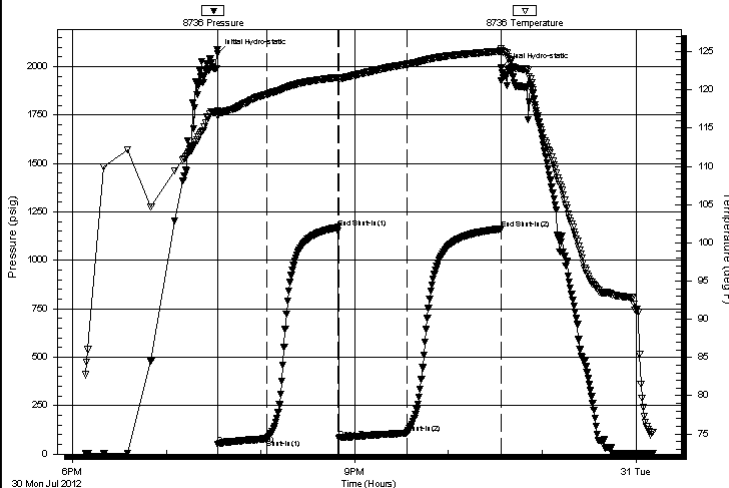
Last Calib.: 2012.07.31

Time On Btm: 2012.07.30 @ 19:32:30

Time Off Btm: 2012.07.30 @ 22:34:00

TEST COMMENT: IF:BOB in 27 min.
IS:No return blow
FF:BOB in 42 min.
FS:Return blow built to weak surface blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2065.61	117.30	Initial Hydro-static
1	51.77	116.55	Open To Flow (1)
32	77.68	119.41	Shut-In(1)
77	1169.56	121.65	End Shut-In(1)
78	82.24	121.44	Open To Flow (2)
121	108.34	123.35	Shut-In(2)
181	1162.16	125.08	End Shut-In(2)
182	1996.30	125.19	Final Hydro-static

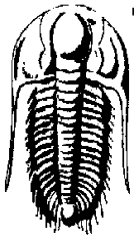
Recovery

Length (ft)	Description	Volume (bbl)
10.00	Free oil 100%o	0.14
82.00	gcmo 10%g 50%o 40%m	1.15
62.00	gcom 10%g 10%o 80%m	0.87

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Charter Energy Inc.

PO Box 252
Great Bend KS 67530

ATTN: Kurt Talbot

32-13s-29w Gove KS

Ottley #1

Job Ticket: 48982

DST#: 3

Test Start: 2012.07.30 @ 18:08:15

GENERAL INFORMATION:

Formation: **J-K-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:32:45

Time Test Ended: 00:10:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4066.00 ft (KB) To 4155.00 ft (KB) (TVD)

Reference Elevations: 2770.00 ft (KB)

Total Depth: 4155.00 ft (KB) (TVD)

2764.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 6668 Outside

Press@RunDepth: psig @ 4070.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.30

End Date:

2012.07.31

Last Calib.:

2012.07.31

Start Time: 18:08:15

End Time:

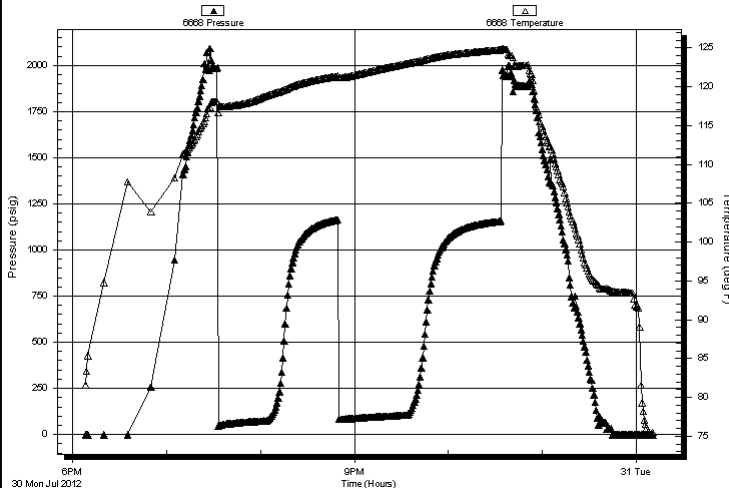
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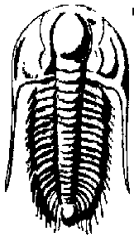
Time On Btm:

Time Off Btm:

TEST COMMENT: IF:BOB in 27 min.
IS:No return blow
FF:BOB in 42 min.
FS:Return blow built to weak surface blow

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy Inc.

32-13s-29w Gove KS

PO Box 252
Great Bend KS 67530

Ottley #1

Job Ticket: 48982

DST#: 3

ATTN: Kurt Talbot

Test Start: 2012.07.30 @ 18:08:15

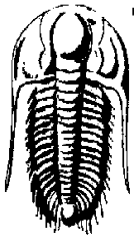
Tool Information

Drill Pipe:	Length:	4072.00 ft	Diameter:	3.80 inches	Volume:	57.12 bbl	Tool Weight:	1500.00 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:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	80000.00 lb
					Total Volume:	57.12 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		26.00 ft					String Weight: Initial	41000.00 lb
Depth to Top Packer:		4066.00 ft					Final	42000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		89.00 ft						
Tool Length:		109.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4047.00	
Shut In Tool	5.00			4052.00	
Hydraulic tool	5.00			4057.00	
Packer	5.00			4062.00	20.00 Bottom Of Top Packer
Packer	4.00			4066.00	
Stubb	1.00			4067.00	
Perforations	3.00			4070.00	
Recorder	0.00	8736	Inside	4070.00	
Recorder	0.00	6668	Outside	4070.00	
Change Over Sub	1.00			4071.00	
Drill Pipe	62.00			4133.00	
Change Over Sub	1.00			4134.00	
Perforations	16.00			4150.00	
Bullnose	5.00			4155.00	89.00 Bottom Packers & Anchor

Total Tool Length: 109.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy Inc.

32-13s-29w Gove KS

PO Box 252
Great Bend KS 67530

Ottley #1

Job Ticket: 48982

DST#: 3

ATTN: Kurt Talbot

Test Start: 2012.07.30 @ 18:08:15

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 75.00 sec/qt

Water Loss: 7.18 in³

Resistivity: 0.00 ohm.m

Salinity: 1100.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

0 deg API

0 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Free oil 100%o	0.140
82.00	gcmo 10%g 50%o 40%m	1.150
62.00	gcom 10%g 10%o 80%m	0.870

Total Length: 154.00 ft

Total Volume: 2.160 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8736

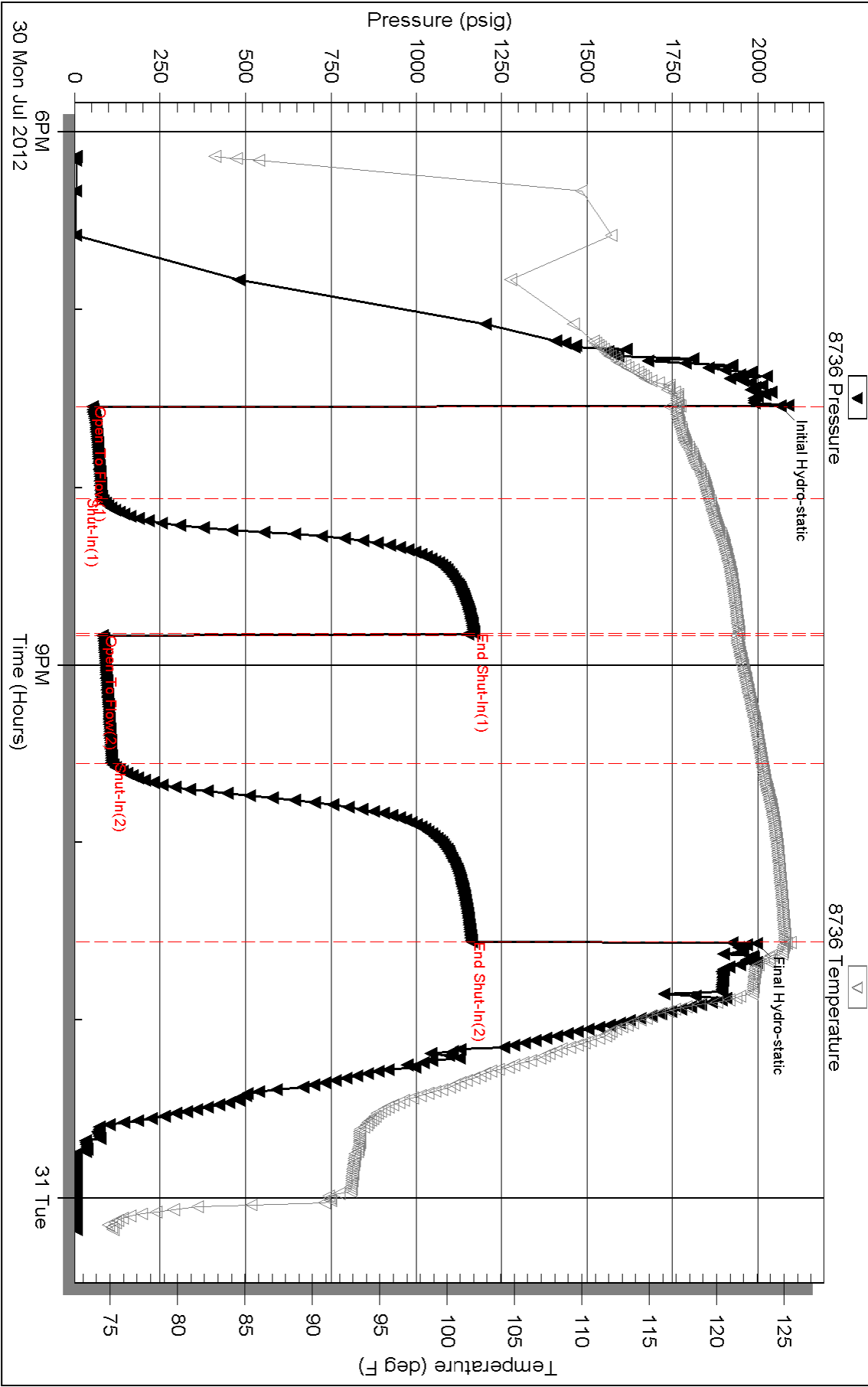
Inside

Charter Energy Inc.

Ottley #1

DST Test Number: 3

Pressure vs. Time

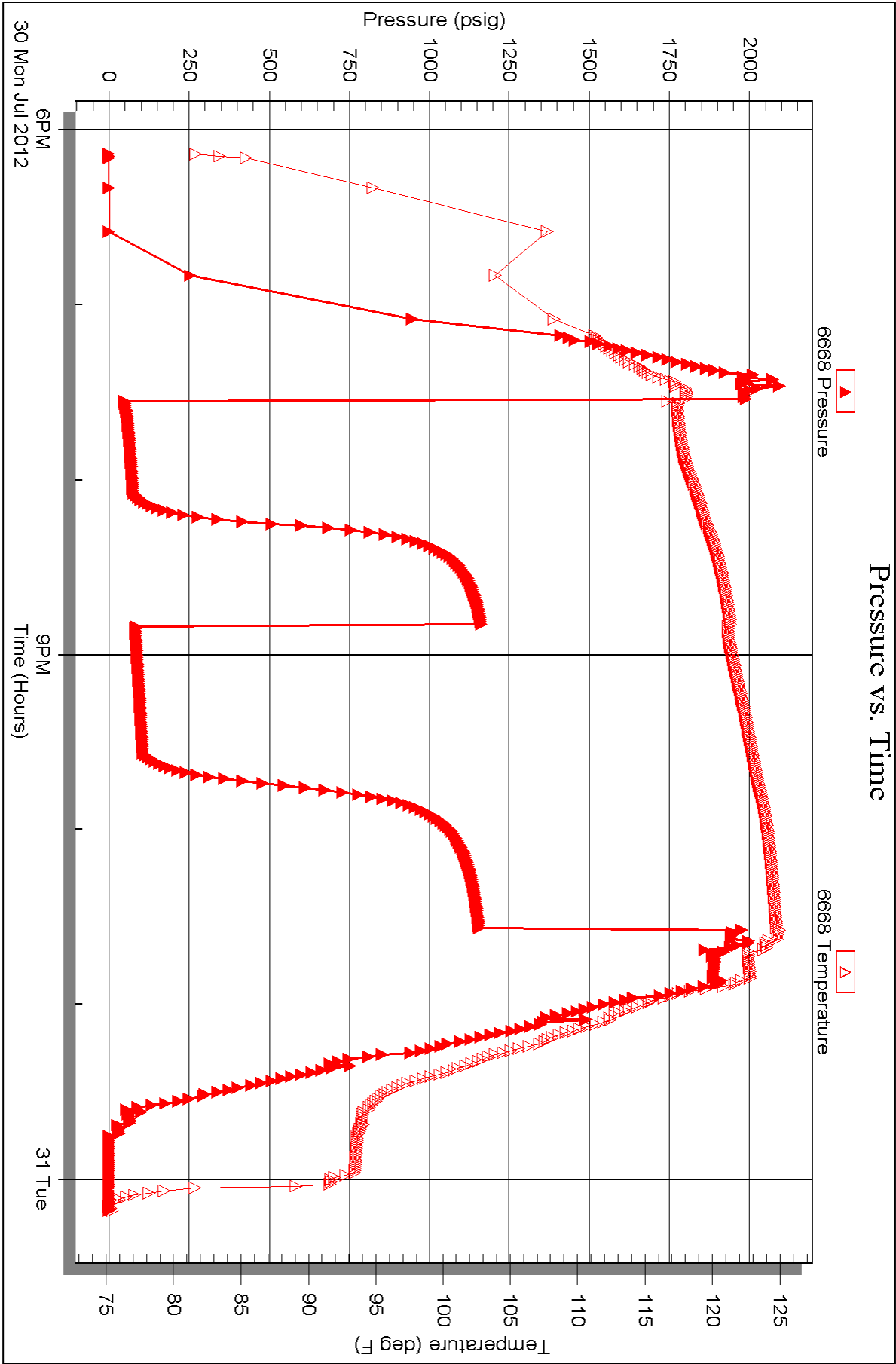


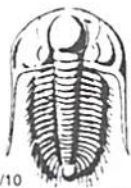
Serial #: 6668

Outside Charter Energy Inc.

Oilley #1

DST Test Number: 3





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48980 7/28
7/29

Well Name & No. Ottley #1 Test No. 1 Date 7-28-12
Company Charter Energy Inc Elevation 2770 KB 2764 GL
Address ~~Great Bend~~ P.O. Box 252 Great Bend KS 67530
Co. Rep / Geo. Kurt Talbot Rig Royal #1
Location: Sec. 32 Twp. 13S Rge. 29W Co. Grove State KS

Interval Tested 3819-3875 Zone Tested Toronto - "A"
Anchor Length 56' Drill Pipe Run 3825 Mud Wt. 9.1
Top Packer Depth 3815 Drill Collars Run 0 Vis 52
Bottom Packer Depth 3819 Wt. Pipe Run 0 WL 7.8
Total Depth 3875 Chlorides 1800 ppm System LCM 1
Blow Description IF: Built to 1/2" Blow
IS: No Return Blow
FF: No Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>MUD</u>			<u>100</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 119 Gravity — API RW — @ — °F Chlorides — ppm
(A) Initial Hydrostatic 1921 ☒ Test \$1150.00/- T-On Location 12:30
(B) First Initial Flow 33 ☐ Jars — T-Started 18:47
(C) First Final Flow 39 ☐ Safety Joint — T-Open 20:21
(D) Initial Shut-In 1072 ☒ Circ Sub NC T-Pulled 22:36
(E) Second Initial Flow 42 ☐ Hourly Standby — T-Out 00:05
(F) Second Final Flow 49 ☒ Mileage 120 RT = 186.00/- Comments —
(G) Final Shut-In 1074 ☐ Sampler —
(H) Final Hydrostatic 1868 ☐ Straddle —

☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
Sub Total 0
Total 1336
MP/DST Disc't —
Initial Open 30
Initial Shut-In 30
Final Flow 30
Final Shut-In 45
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
Sub Total 1336.00/-

Approved By Kurt Talbot Our Representative Mike Roberts

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48981

Well Name & No. Ottley #1 Test No. 2 Date 7-29-12
 Company Charter Energy Inc Elevation 2720 KB 2764 GL
 Address P.O. Box 252 Great Bend KS 67530
 Co. Rep / Geo. Kurt Tallot Rig Royal #1
 Location: Sec. 32 Twp. 13s Rge. 29w Co. Grove State KS

Interval Tested 3882-3950 Zone Tested B+E
 Anchor Length 68 Drill Pipe Run 3885 Mud Wt. 9.3
 Top Packer Depth 3778 Drill Collars Run Ø Vis 59
 Bottom Packer Depth 3882 Wt. Pipe Run Ø WL 7.2
 Total Depth 3950 Chlorides 1100 ppm System LCM 2
 Blow Description IF: Built to 1" Blow
IS: No Return Blow
FF: Built to 1/2 Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>mud</u>			<u>100</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 62 BHT 120 Gravity ✓ API RW ✓ @ ✓ °F Chlorides ✓ ppm
 (A) Initial Hydrostatic 1946 ☒ Test 1150.0% T-On Location 12:30
 (B) First Initial Flow 35 ☐ Jars T-Started 13:00
 (C) First Final Flow 46 ☐ Safety Joint T-Open 14:28
 (D) Initial Shut-In 1050 ☒ Circ Sub NC T-Pulled 17:13
 (E) Second Initial Flow 48 ☐ Hourly Standby T-Out 18:30
 (F) Second Final Flow 63 ☒ Mileage 120 RT = #186.0% Comments
 (G) Final Shut-In 1005 ☐ Sampler
 (H) Final Hydrostatic 1897 ☐ Straddle

Initial Open 30 ☐ Ruined Shale Packer
 Initial Shut-In 45 ☐ Ruined Packer
 Final Flow 45 ☐ Extra Packer
 Final Shut-In 45 ☐ Extra Recorder
 Sub Total 1336 ☐ Day Standby
☐ Accessibility MP/DST Disc't
 Sub Total \$1336.00/-
 Approved By Kurt Tallot Our Representative

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket 7/30/12

NO. 48982 7/31/12

Well Name & No. OHley #1 Test No. 3 Date 7-30-12
 Company Charter Energy Inc Elevation 2720 KB 2764 GL
 Address P.O. Box 252 Great Bend KS 67530
 Co. Rep / Geo. Kurt Talbot Rig Royal #1
 Location: Sec. 32 Twp. 13s Rge. 29W Co. Grove State KS

Interval Tested 4066-4155 Zone Tested J-K-L
 Anchor Length 89 Drill Pipe Run 4072 Mud Wt. 9.3
 Top Packer Depth 4062 Drill Collars Run Ø Vis 25
 Bottom Packer Depth 4066 Wt. Pipe Run Ø WL 7.2
 Total Depth 4155 Chlorides 1100 ppm System LCM 2

Blow Description IF: BOB in 27 Min
Is: No Return Blow
FF: BOB in 42 Min
FS: Return Blow Built to Weak Surface Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>82</u>	<u>gcmo</u>	<u>10</u>	<u>50</u>	<u>40</u>	<u>0</u>
<u>62</u>	<u>gcom</u>	<u>10</u>	<u>10</u>	<u>80</u>	<u>0</u>
<u>10</u>	<u>Free Oil</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>

Rec Total 154 BHT 125 Gravity — API RW — @ — °F Chlorides — ppm
 (A) Initial Hydrostatic 2065 ☒ Test 1250.00 T-On Location 18:00
 (B) First Initial Flow 51 ☐ Jars — T-Started 18:08
 (C) First Final Flow 77 ☐ Safety Joint — T-Open 19:33
 (D) Initial Shut-In 1169 ☒ Circ Sub NC T-Pulled 22:33
 (E) Second Initial Flow 82 ☐ Hourly Standby — T-Out 00:10
 (F) Second Final Flow 108 ☒ Mileage 120 = 186.00% +186 Comments Load tools
 (G) Final Shut-In 1162 ☐ Sampler — mileage X2
 (H) Final Hydrostatic 1996 ☐ Straddle —

☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60
☐ Extra Recorder
☒ Day Standby Over 24 Hrs
☐ Accessibility —

Sub Total 1622 1436.00%
 Approved By Kurt Talbot Our Representative Mike Robert

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 813

Cell 785-324-1041

Date	7-25-12	Sec.	32	Twp.	13	Range	29	County	GOVE	State	KANSAS	On Location		Finish	6:00 PM
Lease	OITLEY		Well No.		#1		Location GOVE, KS - 45 - 5W - 15 - E / INTO								
Contractor	ROYAL DRILLING #1							Owner CHARTER ENERGY							
Type Job	SURFACE							To: Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size	12 1/4"		T.D.		263'		Charge To CHARTER ENERGY								
Csg.	8 3/8"		Depth		261		Street								
Tbg. Size			Depth				City State								
Tool			Depth				City State								
Cement Left in Csg.			Shoe Joint		15'		The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line			Displace		15 1/2 BLS		Cement Amount Ordered 150com - 3cc - 2 gsc								
EQUIPMENT															
Pumptrk #15	No.	Cementer	NICK				Common								
Bulktrk #14	No.	Driver	LONNIE				Poz. Mix								
Bulktrk #14	No.	Driver	CISCO				Gel.								
JOB SERVICES & REMARKS															
Remarks:								Calcium							
Rat Hole								Hulls							
Mouse Hole								Salt							
Centralizers								Flowseal							
Baskets								Kol-Seal							
D/V or Port Collar								Mud CLR 48							
								CFL-117 or CD110 CAF 38							
								Sand							
								Handling							
								Mileage							
FLOAT EQUIPMENT															
								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge							
								Mileage							
THANK YOU!															
Signature Doug Budz															
Tax															
Discount															
Total Charge															



Services, Inc.

CHANGE TO:
ADDRESS
CITY, STATE, ZIP CODE

TICKET
No. 23175

PAGE 1 OF 2

SERVICE LOCATION 1. Ness City, KS		WELL/PROJECT NO.		LEASE		COUNTY/PARISH		STATE		CITY		DATE		OWNER	
2. Ness City, KS		CONTRACTOR		OTTEY #1		600E		KS		600E, KS		2 AUG 12			
3. Ness City, KS		TICKET TYPE ☐ SERVICE ☐ SALES		CONTRACTOR		304AL DRILLING #1		PROG NAME/NO.		SHIPPED WMA		DELIVERED TO		ORDER NO.	
4. Ness City, KS		WELL TYPE		WELL CATEGORY		DEVELOPMENT		JOB PURPOSE		5-1/2" LONG STRING		WELL PERMIT NO.		WELL LOCATION	
5. Ness City, KS		INVOICE INSTRUCTIONS		D1L										45,500,15,23,49,50,51	

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE #110	70	mi			10.00	420.00
576					Pump APARK	1.500		4528	#1	1500.00	1500.00
402					CEMENTALIZERS	5	EA			70.00	350.00
403					CEMENT BASKETS	2	EA			250.00	500.00
404					PORT NUCLEAR	1	EA	2322	FT	2400.00	2400.00
406					LATEA DOWN PLUG & BAPPLE	1	EA			250.00	250.00
407					ASBEST FIBER STAGE W/ AUTO FIL	1	EA			350.00	350.00
281					MUD FLUSH	50	EA			1.25	62.50
221					Liquid RIL	2	EA			2535.00	5070.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X DATE SIGNED 2 AUG 12 TIME SIGNED 10:15 ☐ A.M. ☐ P.M.

REMIT PAYMENT TO:
SWIFT SERVICES, INC.
P.O. BOX 466
NESS CITY, KS 67560
785-798-2300

SURVEY		AGREE		UN- DECIDED		DIS- AGREE		PAGE TOTAL		TOTAL	
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?								4913		12,027.83	
WE UNDERSTOOD AND MET YOUR NEEDS?								113		668.96	
OUR SERVICE WAS PERFORMED WITHOUT DELAY?								506		113	
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?								8.05%		668.96	
ARE YOU SATISFIED WITH OUR SERVICE?		☐ YES		☐ NO							
☐ CUSTOMER DID NOT WISH TO RESPOND											

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
SWIFT OPERATOR [Signature] APPROVAL [Signature]
Thank You!



PO BOX 400
Ness City, KS. 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET
No. 22175

Service, Inc.				Customer		WELL		DATE		PAGE	
Ness City, KS, 67560 Off: 785-798-2300				CHARTER ENERGY		6714 #1		2/24/12		2 of 2	
PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING	TIME	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT			
276				FLOCEL	50	lbs	2.00	100.00			
283				SALT	1000	lbs	2.00	200.00			
284				CALSEAR	9	lsx	35.00	315.00			
285				QFR-1	1000	lbs	4.00	400.00			
290				D-AIR	2	gal	35.00	70.00			
325				STANDARD CEMENT EAA	200	5x	13.50	2700.00			
581				SERVICE CHARGE							
583				LEASE TOTAL WEIGHT CHARGE	200	5x	2.00	400.00			
				LOADED MILES	70						
				CUBIC FEET	200	5x					
				TON MILES	728.87						
CONTINUATION TOTAL								4913.87			



FIELD TICKET & TREATMENT REPORT

FOREMAN Eu 374

(< <)

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY																
8-9-12		Ottley #1	32	135	29W	Gove																
CUSTOMER Chamber Energy			<table border="1"> <tr> <th>TRUCK #</th><th>DRIVER</th><th>TRUCK #</th><th>DRIVER</th></tr> <tr> <td>463</td><td>Cory D</td><td></td><td></td></tr> <tr> <td>528</td><td>Thomas B</td><td></td><td></td></tr> <tr> <td></td><td>Travis W</td><td></td><td></td></tr> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	463	Cory D			528	Thomas B				Travis W		
TRUCK #	DRIVER	TRUCK #					DRIVER															
463	Cory D																					
528	Thomas B																					
	Travis W																					
MAILING ADDRESS																						
CITY	STATE	ZIP CODE																				

JOB TYPE <u>Port- collar</u>	HOLE SIZE _____	HOLE DEPTH _____	CASING SIZE & WEIGHT <u>5" 2</u>
CASING DEPTH _____	DRILL PIPE _____	TUBING <u>2 3/8</u>	OTHER <u>RBPE 2590</u>
SLURRY WEIGHT <u>12.5</u>	SLURRY VOL <u>1.89</u>	WATER gal/sk <u>10.8</u>	CEMENT LEFT in CASING <u>P. collar @ 228</u>
DISPLACEMENT <u>8.9 BBL</u>	DISPLACEMENT PSI _____	MIX PSI _____	RATE _____

REMARKS: Safety meeting on PPS workover. Rig up and load hole circulator out of hole. Spot 25kts sand @ 2285' let sand fall 12 hr. Test closed tool @ 900* Establish circulation. Mix 200 kts 60/40 89000 14" closeal lost returns shut down 10 min. Mix 250 kts 60/40 89000 14" Plug set with 150* cottonseed hulls regained circulation cement did circulate Displace 8 BAG close tool and log to 1000* run 65kts reverse 4 hrs clean and wash sand off plug.

Thanks Tuzi & crew

[illegible]

Ravin 3737

AUTHORIZATION W. Jackson TITLE

DATE 8-7-72

**ESTIMATED
TOTAL**

DATE 8-7-72

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

3,200 gal

WELL NAME AND NUMBER Ottley #1		LOCATION	DATE 8-8-2012	SERVICE NUMBER 17760	
FIELD	FORMATION AKC	JOB DONE DOWN TUBING ☒ CASING ☐ ANNULUS ☐		ALLOWANCE PRESSURE	
COUNTY Goose	STATE Ks	TYPE OF WELL OIL ☒ GAS ☐ WATER ☐ SWD. ☐ INJ. ☐		TBG: CSG:	
TYPE OF SERVICE Acid / new well		AGE OF WELL NEW WELL ☒ REWORK ☐		PACKER TYPE PACKER DEPTH 3884	
CUST. NAME Charter Energy	CASING SIZE 5 1/2		CASING DEPTH	TUBING SIZE 2 3/8	
	OPEN HOLE	CSG. OR ANRL. VOL. 1.2 2.4	TGB VOLUME 15	TUBING DEPTH 3550	
ADDRESS		PERFORATED INTERVALS			
CITY, STATE & ZIP CODE		DEPTH	NO. OF HOLES	DEPTH	NO. OF HOLES
REMARKS:					

TIME	INJECTION		PRESSURE		REMARKS
	RATE	BBLS IN	CSG.	TBG.	
8:45					Drop Spot 6.564 of Acid Vls Tub.
9:05		6.564			Pull packer to 3884 feet
		19.615		500'	Start + Acid Vls Tubing to land
	3 1/4 hr	19.464		500'	Tubing handle + Increase Pressure
	3 1/2 hr	21.615		400'	Formation Feeding
	3 3/4 hr	22.115		1100'	Pressure Dropping
	3 1/2 hr	24.615		1100'	Increase Rate of Pressure
	4 1/2 hr	27.615		1400'	Start Water Pad Vls Tubing
	4 1/2 hr	34.615		1400'	Increase Rate of Pressure
	4 1/2 hr	37.615		1400'	Start 400' Rock Salt in Flush Vls Tubing
	4 1/2 hr	40.615		1400'	Start Acid Vls Tubing
	4 1/2 hr	53.115		1700'	Increase Rate of Pressure
	4 1/2 hr	58.615		1600'	Pressure Increasing
	4 1/2 hr	61.615		1600'	Pressure Dropping
	4 1/2 hr	71.615		1500'	Start Water Pad Vls Tubing
	4 1/2 hr	76.615		1400'	Start 600' Rock Salt Vls Tubing
	4 1/2 hr	80.615		1350'	Start Acid Vls Tubing
	4 1/2 hr	91.615		1500'	Pressure Dropping
	4 1/2 hr	93.615		1700'	Pressure Increasing
	4 1/2 hr	100.615		1700'	Start Flush Vls Tubing
	5 1/4 hr	109.615		2000'	Increase Rate of Pressure
9:38		126.615			SHUT Down - Flush Complete 1 hr to Val

TIME LEFT LOCATION	AVER. LIQUID INJ. RATE 4 1/2 hr - 5 1/4 hr	SHUT IN PRESSURE IMMEDIATE 15 MINUTES		PRODUCTS USED
MAX. PRESSURE 2000*	AVER. PRESSURE 1,600*	400*	1 hr	3,000 gal 20% NE
CUSTOMER REPRESENTATIVE Bruce Jackson		KANSAS ACID REPRESENTATIVE Bruce Hall		1,000* Rock Salt



SERVICE NUMBER

017760

P.O. Box 1595
Hays, KS 67601-8595

DATE 8-8-2012 Customer's Order No. Verbal

WELL NAME AND NUMBER Ottley #1 LOCATION _____

FIELD NIA FORMATION AKC

COUNTY - STATE Gove, KS

TYPE OF SERVICE Acid/ new well

CUST. NAME Charter Energy

ADDRESS _____

CITY _____

STATE & ZIP CODE _____

As consideration, the above-named Customer agrees to pay Kansas Acid, Inc. in accord with the rates and terms stated in Kansas Acid, Inc. current price lists. Invoices are payable NET 30 after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Kansas Acid, Inc. warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Kansas Acid, Inc. liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Kansas Acid, Inc. or, at Kansas Acid, Inc. option, to the allowance to the customer of credit for the cost of such items. In no event shall Kansas Acid, Inc. be liable for special, indirect, punitive or consequential damages.

REF. NO.	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
5828	20% H ₂ O Acid	3,000 gals	2.93	8,790.00
76	AK-50 Inhibitor	9 gals	71.63	644.67
1046	AR-38 AF	6 gals	53.55	321.30
1337	Rock Salt	1,000*	1.53	530.00
9313	Truck Mileage	60 mi	5.50	330.00
9641	Pump Truck	1	750.00	750.00
			Gross	11,365.97
			-25% Disc	-2,841.49
POWER TAX				
SALES TAX				
Material Reimbursement				
TOTAL CHARGE				Discounted Price = \$8,524.48

The above was received and the job was under the direction, supervision, and control of the owner, operator or his agent whose signature appears below:

TRUCK NUMBER: 012

DRIVER Mark, Jesse

THIS JOB WAS SATISFACTORILY COMPLETED ☐ Yes ☐ No

OPERATION OF EQUIPMENT WAS SATISFACTORY ☐ Yes ☐ No

PERFORMANCE OF PERSONNEL WAS SATISFACTORY ☐ Yes ☐ No

KANSAS ACID REPRESENTATIVE

CUSTOMER OR HIS AGENT'S SIGNATURE

[illegible]