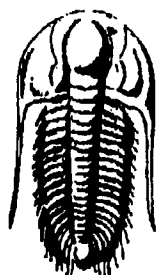


And



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Charles N.Griffin**

P.O.Box 670
Byers Co.80103

ATTN: Bruce Reed

34S

~~26-31s~~-9w Harper Ks.

15-077-21665-0000

Koblitz #3

Start Date: 2010.01.15 @ 00:42:44

End Date: 2010.01.15 @ 08:21:44

Job Ticket #: 35740

DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

MAR 25 2010

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Charles N.Griffin

Koblitz #3

26-31s-9w Harper Ks.

DST # 1

Miss.

2010.01.15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Charles N.Griffin

P.O.Box 670
Byers Co.80103

ATTN: Bruce Reed

Koblitz #3

26-31s-9w Harper Ks.

Job Ticket: 35740

DST#: 1

Test Start: 2010.01.15 @ 00:42:44

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:44:44

Time Test Ended: 08:21:44

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: **4594.00 ft (KB) To 4625.00 ft (KB) (TVD)**

Total Depth: 4625.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1282.00 ft (KB)

1271.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8167 Inside

Press@RunDepth: 58.75 psig @ 4595.00 ft (KB)

Start Date: 2010.01.15

End Date:

2010.01.15

Start Time: 00:42:49

End Time:

08:21:43

Capacity: 8000.00 psig

Last Calib.: 2010.01.15

Time On Btm: 2010.01.15 @ 02:42:44

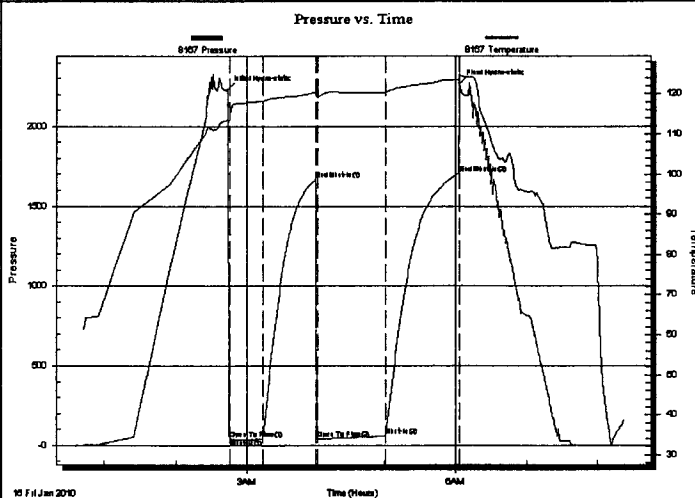
Time Off Btm: 2010.01.15 @ 06:03:13

TEST COMMENT: IF:Strong blow . B.O.B. in 50 secs.

IS:No blow .

FF:Strong blow . GTS in 2 mins.(see gas flow report)

FS:No blow .



PRESSURE SUMMARY

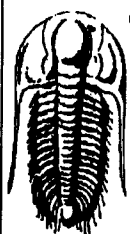
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2227.43	113.49	Initial Hydro-static
2	42.25	113.75	Open To Flow (1)
31	41.51	118.16	Shut-In(1)
77	1668.23	120.42	End Shut-In(1)
79	43.31	119.23	Open To Flow (2)
138	58.75	120.35	Shut-In(2)
200	1705.58	123.48	End Shut-In(2)
201	2265.85	124.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	GMC,W0 12%g 10%m 23%w 55%o	0.44
60.00	GOCMJ 26%g 30%o 44%m	0.84

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	5.00	30.78
Last Gas Rate	0.25	3.00	27.60
Max. Gas Rate	0.25	5.00	30.78



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charles N.Griffin

Koblitz #3

P.O.Box 670
Byers Co.80103

26-31s-9w Harper Ks.

Job Ticket: 35740

DST#: 1

ATTN: Bruce Reed

Test Start: 2010.01.15 @ 00:42:44

Tool Information

Drill Pipe:	Length: 4496.00 ft	Diameter: 3.80 inches	Volume: 63.07 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose: 74000.00 lb
		Total Volume:	63.51 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4594.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4567.00	
S.I. Tool	5.00			4572.00	
HMV	5.00		Fluid	4577.00	
Jars	5.00			4582.00	
Safety Joint	3.00			4585.00	
Packer	4.00			4589.00	28.00 Bottom Of Top Packer
Packer	5.00		Inside	4594.00	
Stubb	1.00			4595.00	
Recorder	0.00	8167	Inside	4595.00	
Recorder	0.00	8370	Outside	4595.00	
Perforations	25.00			4620.00	
Bullnose	5.00			4625.00	31.00 Bottom Packers & Anchor
Total Tool Length:		59.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Charles N.Griffin

Koblitz #3

P.O.Box 670
Byers Co.80103

26-31s-9w Harper Ks.

Job Ticket: 35740

DST#: 1

ATTN: Bruce Reed

Test Start: 2010.01.15 @ 00:42:44

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:

5000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	GMC,WO 12%g 10%m 23%w 55%o	0.443
60.00	GOCMJ 26%g 30%o 44%m	0.842

Total Length: 150.00 ft

Total Volume: 1.285 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: GP-1

Laboratory Name: caraway

Laboratory Location: Hugoton, KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Charles N.Griffin

Koblitz #3

P.O.Box 670
Byers Co.80103

26-31s-9w Harper Ks.

Job Ticket: 35740

DST#: 1

ATTN: Bruce Reed

Test Start: 2010.01.15 @ 00:42:44

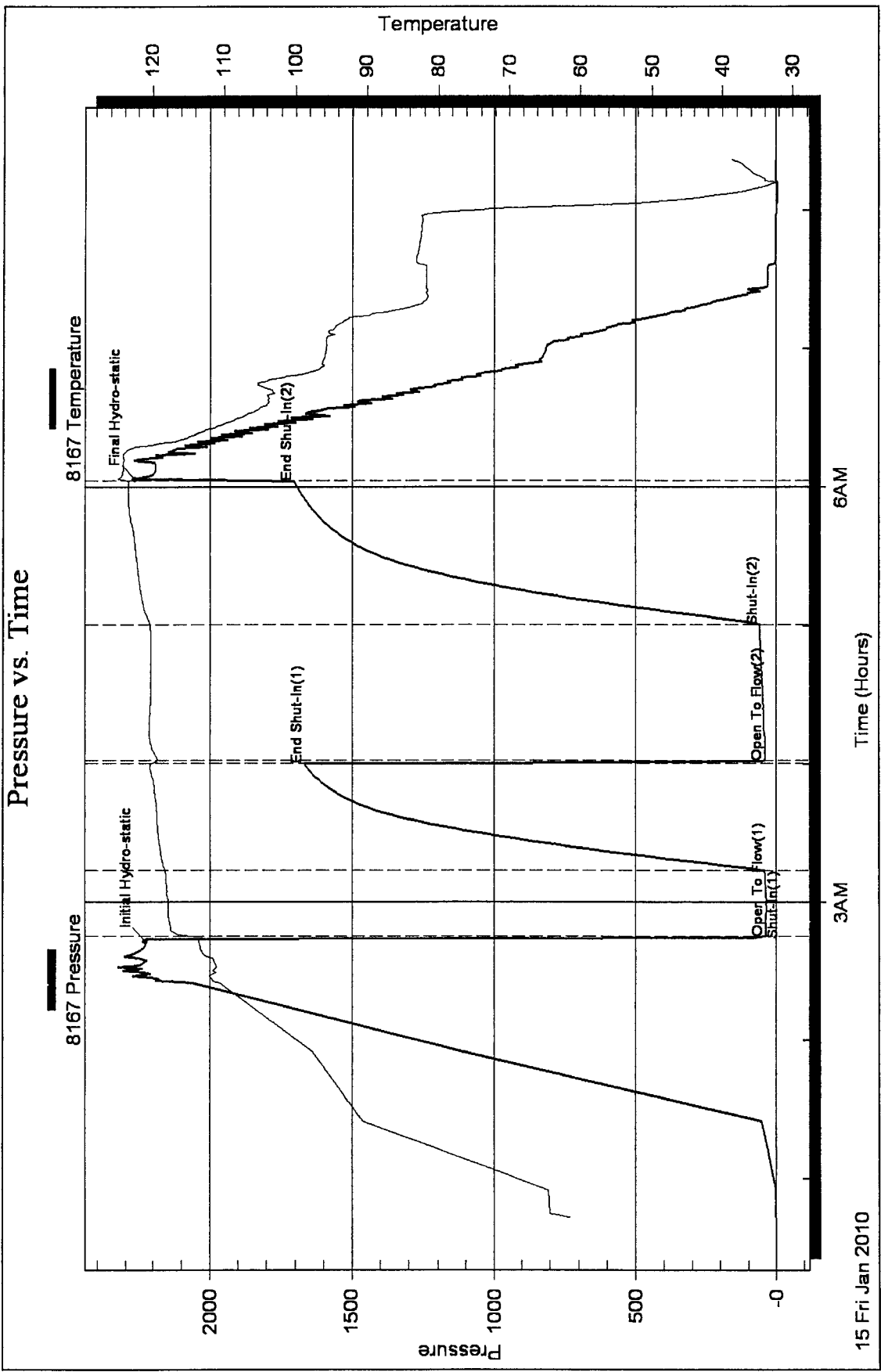
Gas Rates Information

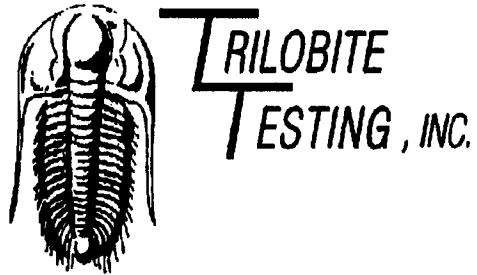
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m³/d)
2	10	0.25	5.00	30.78
2	10	0.25	5.00	30.78
2	20	0.25	4.00	29.19
2	30	0.25	3.00	27.60
2	40	0.25	3.00	27.60
2	50	0.25	3.00	27.60

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Charles N.Griffin**

P.O.Box 670
Byers Co.80103

ATTN: Bruce Reed

26-31s-9w Harper Ks.

Koblitz #3

Start Date: 2010.01.15 @ 16:18:56

End Date: 2010.01.15 @ 23:21:26

Job Ticket #: 35741 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

Charles N. Griffin

P.O. Box 670
Byers Co. 80103

ATTN: Bruce Reed

Koblitz #3

26-31s-9w Harper Ks.

Job Ticket: 35741

DST#: 2

Test Start: 2010.01.15 @ 16:18:56

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:41:26

Time Test Ended: 23:21:26

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: **4628.00 ft (KB) To 4646.00 ft (KB) (TVD)**

Total Depth: 4646.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1282.00 ft (KB)

1271.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8167

Inside

Press@RunDepth: 32.04 psig @ 4629.00 ft (KB)

Start Date: 2010.01.15

End Date:

2010.01.15

Capacity: 8000.00 psig

Last Calib.: 2010.01.15

Start Time: 16:19:01

End Time:

23:21:25

Time On Btm: 2010.01.15 @ 18:36:56

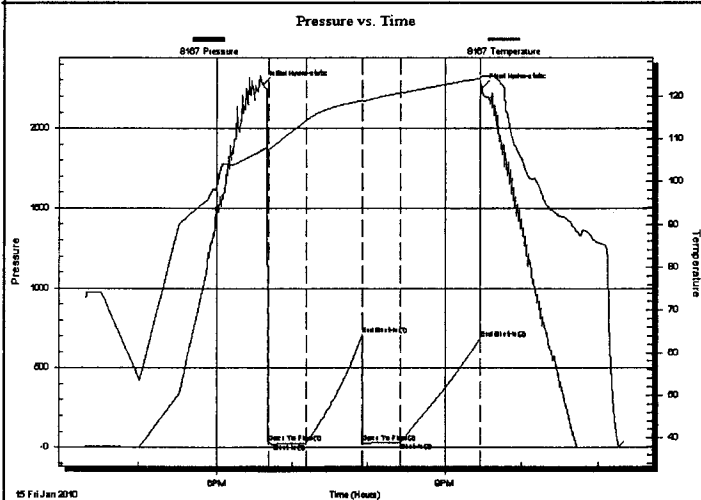
Time Off Btm: 2010.01.15 @ 21:28:56

TEST COMMENT: IF: Fair to strong blow. B.O.B. in 26 mins.

IS: No blow.

FF: Strong blow. B.O.B. in 6 secs.

FS: No blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2273.59	107.47	Initial Hydro-static
5	33.06	107.62	Open To Flow (1)
35	25.08	114.32	Shut-In(1)
79	708.56	118.99	End Shut-In(1)
79	28.79	118.83	Open To Flow(2)
109	32.04	120.73	Shut-In(2)
171	682.08	124.09	End Shut-In(2)
172	2253.58	124.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	GOCWM 6%g 15%o 15%w 64%m	0.63
0.00	1640 ft. of GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charles N.Griffin

Koblitz #3

P.O.Box 670
Byers Co.80103

26-31s-9w Harper Ks.

Job Ticket: 35741

DST#: 2

ATTN: Bruce Reed

Test Start: 2010.01.15 @ 16:18:56

Tool Information

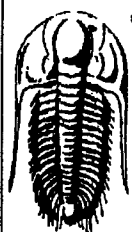
Drill Pipe:	Length: 4623.00 ft	Diameter: 3.80 inches	Volume: 64.85 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 71000.00 lb
			Total Volume: 64.85 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4628.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4601.00	
S.I. Tool	5.00			4606.00	
HMV	5.00		Fluid	4611.00	
Jars	5.00			4616.00	
Safety Joint	3.00			4619.00	
Packer	4.00			4623.00	28.00 Bottom Of Top Packer
Packer	5.00		Inside	4628.00	
Stubb	1.00			4629.00	
Recorder	0.00	8167	Inside	4629.00	
Recorder	0.00	8370	Outside	4629.00	
Perforations	12.00			4641.00	
Bullnose	5.00			4646.00	18.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charles N.Griffin

Koblitz #3

P.O.Box 670
Byers Co.80103

26-31s-9w Harper Ks.

Job Ticket: 35741

DST#: 2

ATTN: Bruce Reed

Test Start: 2010.01.15 @ 16:18:56

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

6000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	GOCWM 6%g 15%o 15%w 64%m	0.631
0.00	1640 ft.of GIP	0.000

Total Length: 45.00 ft

Total Volume: 0.631 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

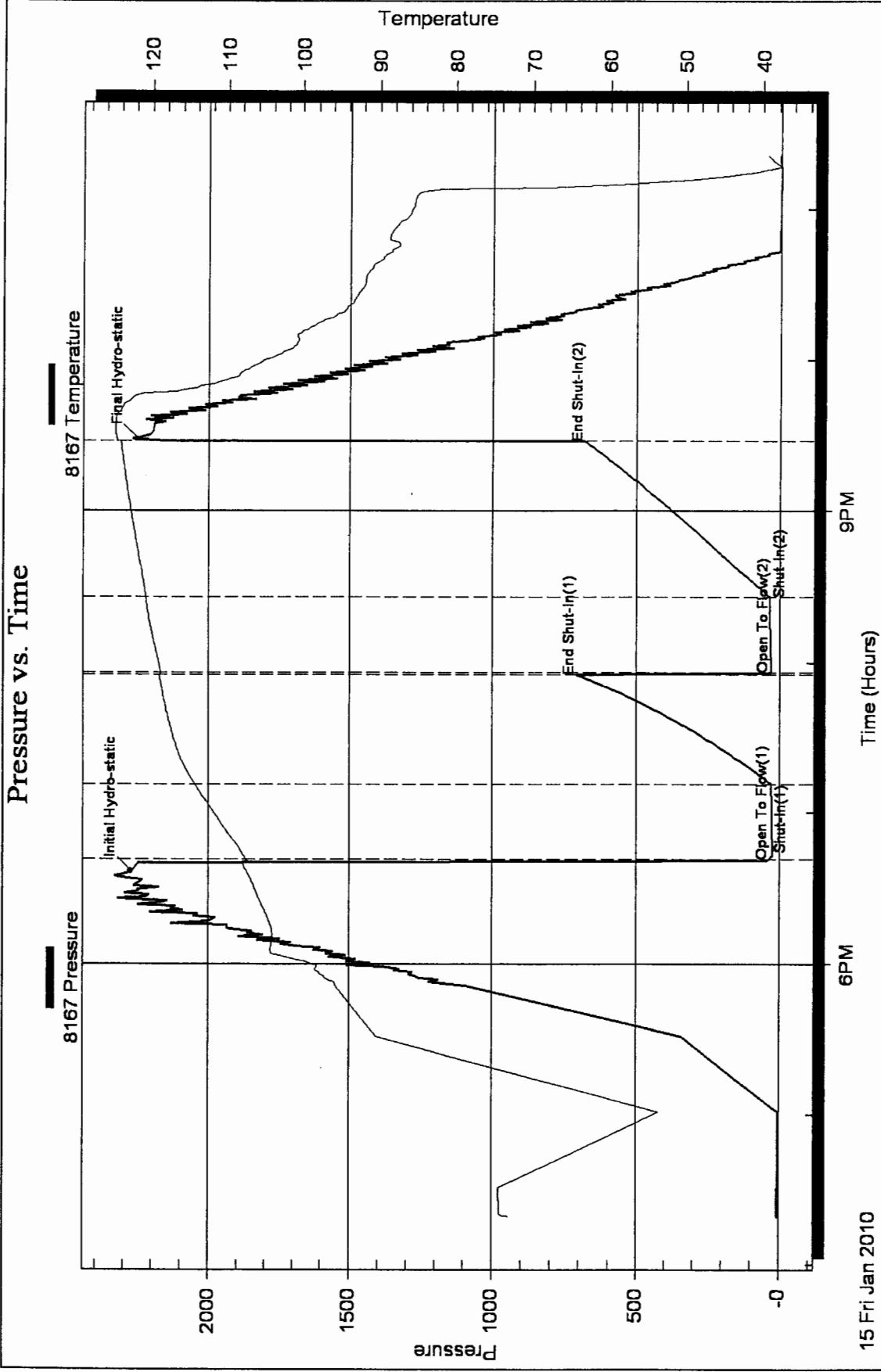
Serial #: 8167

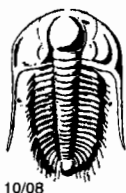
Inside

Charles N. Griffin

26-31s-9w Harper Ks.

DST Test Number: 2





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED Test Ticket
JAN 19 2010 NO. 35740

13828

BY: _____

Well Name & No. KOBLITZ #3 Test No. 1 Date 1-15-10
 Company CHARLES N. GRIFFIN Elevation 1282 KB 1271 GL
 Address P.O. Box 670, BYERS Co. 80103
 Co. Rep / Geo. BRUCE REED Rig DUKE DRUG. #10
 Location: Sec. 26 Twp. 34S Rge. 9W Co. HARPER State Ks

Interval Tested 4594 - 4625' Zone Tested MISS.
 Anchor Length 31' Drill Pipe Run 4496' Mud Wt. 9.2
 Top Packer Depth 4589' Drill Collars Run 90' Vis 54
 Bottom Packer Depth 4594' Wt. Pipe Run 0 WL 9.2cc
 Total Depth 4625' Chlorides 5,000 ppm System LCM 0
 Blow Description IF: Strong blow. B.O.B. in 50 sec. IS: N. blow.

EF: Strong blow. GTS in 2 mins. (see gas flow report)
FS: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>Feet of GOCM</u>	<u>26</u>	<u>30</u>	<u>44</u>	<u></u>
<u>90</u>	<u>Feet of GMC, W.O</u>	<u>12</u>	<u>55</u>	<u>23</u>	<u>10</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 150 BHT 123 Gravity N/A API RW N.C. @ 7 °F Chlorides 5,000 ppm

(A) Initial Hydrostatic	<u>2227</u>	☒ Test	<u>1150</u>	T-On Location	<u>1140</u>
(B) First Initial Flow	<u>42</u>	☒ Jars	<u>250</u>	T-Started	<u>6042</u>
(C) First Final Flow	<u>42</u>	☒ Safety Joint	<u>95</u>	T-Open	<u>0244</u>
(D) Initial Shut-In	<u>1668</u>	☐ Circ Sub		T-Pulled	<u>0603</u>
(E) Second Initial Flow	<u>43</u>	☐ Hourly Standby		T-Out	<u>0821</u>
(F) Second Final Flow	<u>59</u>	☒ Mileage	<u>(130) 130</u>	Comments	
(G) Final Shut-In	<u>1706</u>	☐ Sampler			
(H) Final Hydrostatic	<u>2209</u>	☐ Straddle			

Initial Open	<u>30</u>	☐ Shale Packer	☐ Ruined Shale Packer
Initial Shut-In	<u>45</u>	☐ Extra Packer	☐ Ruined Packer
Final Flow	<u>60</u>	☐ Extra Recorder	☐ Extra Copies
Final Shut-In	<u>60</u>	☐ Day Standby	Sub Total
		☐ Accessibility	Total
		Sub Total	<u>1605⁰⁰</u>

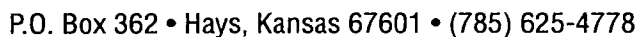
Approved By

Bruce Reed

Our Representative

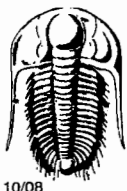
Conny P. [Signature]

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.



DST NO.

Remarks:



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
JAN 19 2010

Test Ticket

NO. 35741

BY: _____

Well Name & No. Kobility #3 Test No. 2 Date 1-15-10

Company Charles N. Griffen Elevation 1282 KB 1271 GL

Address P.O. Box 620, Byers Co 80103

Co. Rep / Geo. Bruce Reed Rig Duke Dug #10

Location: Sec. 26 Twp. 34S Rge. 9W Co. Harper State Ks.

Interval Tested 4628 ~ 4646' Zone Tested Miss.

Anchor Length 18' Drill Pipe Run 4633 Mud Wt. 9.2

Top Packer Depth 4623' Drill Collars Run 0 Vis SC

Bottom Packer Depth 4628' Wt. Pipe Run 0 WL 9.2 cc

Total Depth 4646' Chlorides 6,000 ppm System LCM 0

Blow Description IF: Fair to strong blow. B.O.B. in 26 mins. ISI: No blow

FF: Strong blow. B.O.B. in 6 sec. FSI: No blow.

Rec <u>1640</u>	Feet of <u>GIP</u>	%gas	%oil	%water	%mud
Rec <u>45</u>	Feet of <u>GOCWM</u>	<u>6</u> %gas	<u>15</u> %oil	<u>15</u> %water	<u>64</u> %mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec Total <u>45</u>	BHT <u>124</u>	Gravity <u>N/A</u>	API RW <u>N.C. @</u>	° F	Chlorides <u>6,000</u> ppm

(A) Initial Hydrostatic 2274

(B) First Initial Flow 33

(C) First Final Flow 25

(D) Initial Shut-In 709

(E) Second Initial Flow 29

(F) Second Final Flow 32

(G) Final Shut-In 682

(H) Final Hydrostatic 2254

☒ Test 1150

☒ Jars 250

☐ Safety Joint 75

☐ Circ Sub _____

☐ Hourly Standby _____

☒ Mileage 130 130

☐ Sampler _____

☐ Straddle _____

☐ Shale Packer _____

☐ Extra Packer _____

☐ Extra Recorder _____

☐ Day Standby _____

☐ Accessibility _____

T-On Location 1606

T-Started 1618

T-Open 1841

T-Pulled 2130

T-Out 2321

Comments _____

Initial Open 30

Initial Shut-In 45

Final Flow 30

Final Shut-In 60

☐ Ruined Shale Packer _____

☐ Ruined Packer _____

☐ Extra Copies _____

Sub Total _____

Total 1605

Approved By

Bruce Reed

Our Representative

Cory Proterius

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.