

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Blake Exploration, LLC**

PO Box 150
Bogue, KS 67625

ATTN: Mike Davignon

12-11s-20w Ellis, KS

Keller-Davis #1

Start Date: 2010.09.28 @ 04:54:50

End Date: 2010.09.28 @ 13:19:50

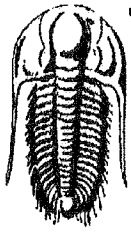
Job Ticket #: 39010 DST #: 1

RECEIVED
OCT 19 2010
KCC WICHITA

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

ORIGINAL

Blake Exploration, LLC
Keller-Davis #1
12-11s-20w Ellis, KS
DST # 1
"A-C"
2010.09.28



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Blake Exploration, LLC

Keller-Davis #1

PO Box 150
Bogue, KS 67625

12-11s-20w Ellis, KS

Job Ticket: 39010

DST#: 1

ATTN: Mike Davignon

Test Start: 2010.09.28 @ 04:54:50

GENERAL INFORMATION:

Formation: "A-C"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:31:35

Time Test Ended: 13:19:50

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 3310.00 ft (KB) To 3370.00 ft (KB) (TVD)

Total Depth: 3370.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2050.00 ft (KB)

2045.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6668

Inside

Press@RunDepth: 35.03 psig @ 3347.00 ft (KB)

Start Date: 2010.09.28

End Date:

2010.09.28

Capacity: 8000.00 psig

Last Calib.:

2010.09.28

Start Time: 04:54:52

End Time:

13:19:50

Time On Btm:

2010.09.28 @ 07:31:05

Time Off Btm:

2010.09.28 @ 11:38:05

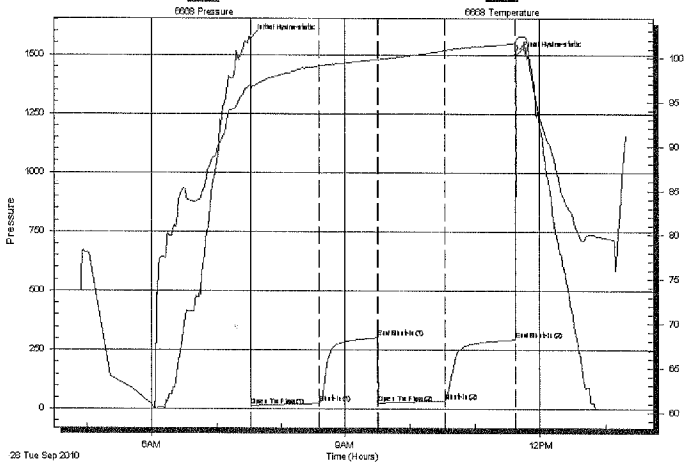
TEST COMMENT: IFP-Weak surface blow building to 3/4"

ISI-Dead

FFP-Weak surface blow starting after 25 min.

FSI-Dead

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1569.75	96.99	Initial Hydro-static
1	12.23	96.36	Open To Flow (1)
65	24.08	99.07	Shut-In(1)
120	301.82	99.81	End Shut-In(1)
120	25.09	99.72	Open To Flow (2)
181	35.03	100.87	Shut-In(2)
247	294.15	101.64	End Shut-In(2)
247	1499.65	102.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	VSOCM-1%O-99%M	0.12

Gas Rates

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

ORIGINAL



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Blake Exploration, LLC

Keller-Davis #1

PO Box 150
Bogue, KS 67625

12-11s-20w Ellis, KS

Job Ticket: 39010

DST#: 1

ATTN: Mike Davignon

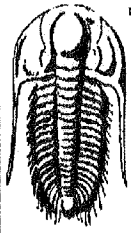
Test Start: 2010.09.28 @ 04:54:50

Tool Information

Drill Pipe:	Length: 3129.00 ft	Diameter: 3.80 inches	Volume: 43.89 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 44.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3310.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	81.00 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			3290.00	
Shut In Tool	5.00			3295.00	
Hydraulic tool	5.00			3300.00	
Packer	5.00			3305.00	21.00 Bottom Of Top Packer
Packer	5.00			3310.00	
Stubb	1.00			3311.00	
Perforations	2.00			3313.00	
Change Over Sub	1.00			3314.00	
Blank Spacing	32.00			3346.00	
Change Over Sub	1.00			3347.00	
Recorder	0.00	6668	Inside	3347.00	
Recorder	0.00	8360	Outside	3347.00	
Perforations	20.00			3367.00	
Bullnose	3.00			3370.00	60.00 Bottom Packers & Anchor
Total Tool Length:	81.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Blake Exploration, LLC

Keller-Davis #1

PO Box 150
Bogue, KS 67625

12-11s-20w Ellis, KS

Job Ticket: 39010

DST#: 1

ATTN: Mike Davignon

Test Start: 2010.09.28 @ 04:54:50

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: 76.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1900.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	VSOCM-1%O-99%M	0.123

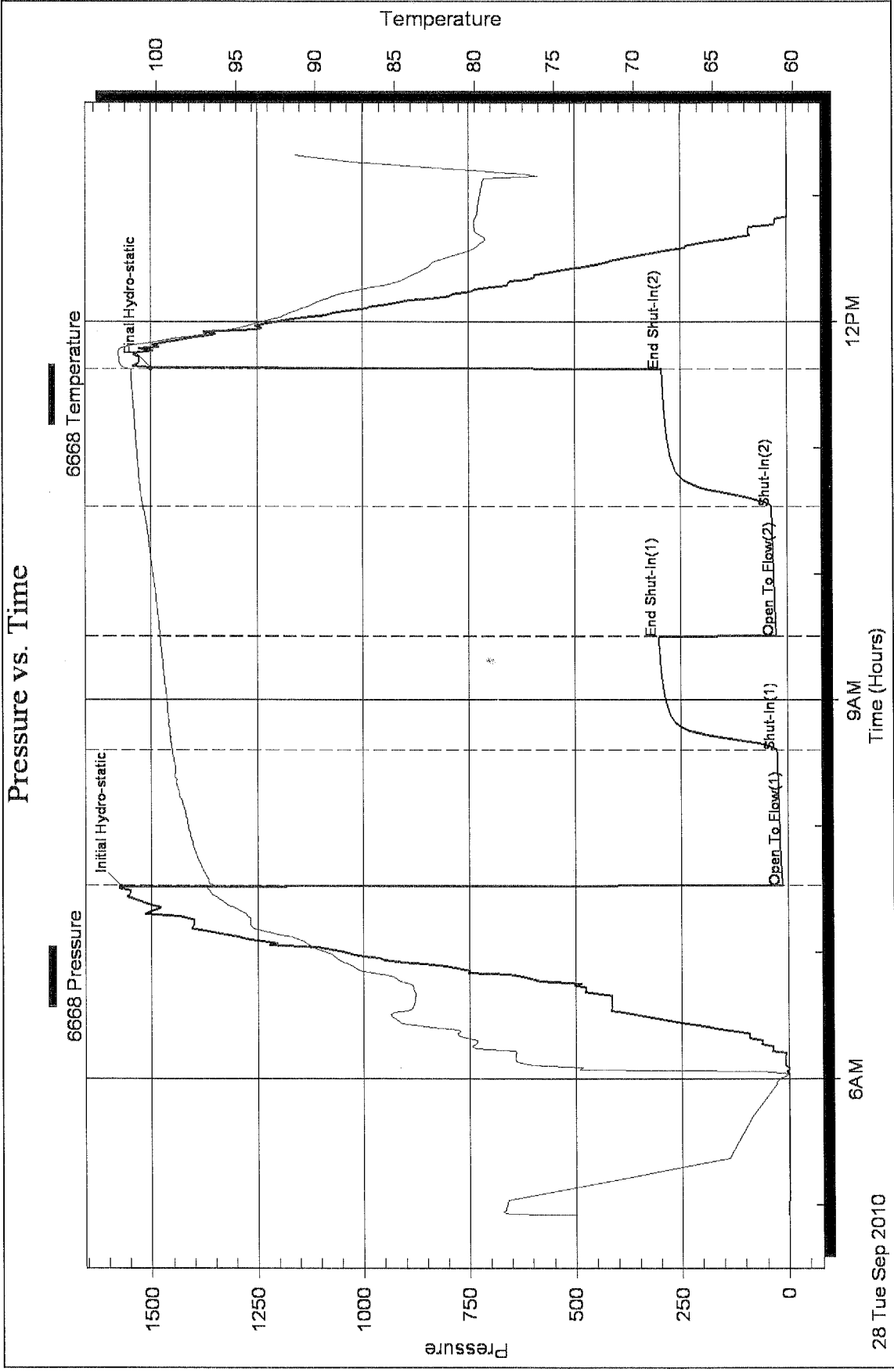
Total Length: 25.00 ft Total Volume: 0.123 bbl

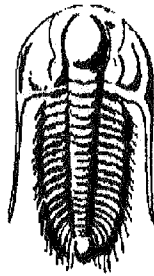
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **Blake Exploration, LLC**

PO Box 150
Bogue, KS 67625

ATTN: Mike Davignon

12-11s-20w Ellis, KS

Keller-Davis #1

Start Date: 2010.09.28 @ 21:18:27

End Date: 2010.09.29 @ 04:38:27

Job Ticket #: 39011 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Blake Exploration, LLC

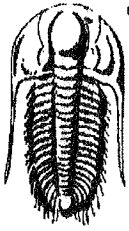
Keller-Davis #1

12-11s-20w Ellis, KS

DST # 2

"E-F"

2010.09.28



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Blake Exploration, LLC

Keller-Davis #1

PO Box 150
Bogue, KS 67625

12-11s-20w Ellis, KS

ATTN: Mike Davignon

Job Ticket: 39011

DST#: 2

Test Start: 2010.09.28 @ 21:18:27

GENERAL INFORMATION:

Formation: "E-F"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:37:42

Time Test Ended: 04:38:27

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 3365.00 ft (KB) To 3412.00 ft (KB) (TVD)

Total Depth: 3412.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2050.00 ft (KB)

2045.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6668

Inside

Press@RunDepth: 63.95 psig @ 3401.00 ft (KB)

Start Date: 2010.09.28

End Date: 2010.09.29

Capacity: 8000.00 psig

Last Calib.: 2010.09.29

Start Time: 21:18:29

End Time: 04:38:27

Time On Btm: 2010.09.28 @ 23:37:12

Time Off Btm: 2010.09.29 @ 02:45:27

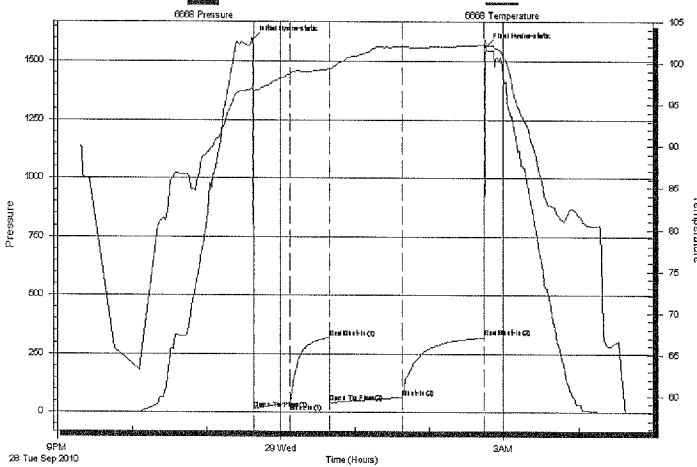
TEST COMMENT: IFP-Weak blow, built to 2"

ISI-Dead

FFP-Weak blow, built to 1-1/2"

FSI-Dead

Pressure vs. Time



PRESSURE SUMMARY

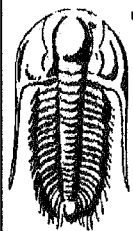
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1591.60	96.94	Initial Hydro-static
1	13.17	96.45	Open To Flow (1)
31	36.75	98.76	Shut-In(1)
62	320.16	99.31	End Shut-In(1)
63	40.03	99.24	Open To Flow (2)
122	63.95	102.02	Shut-In(2)
188	321.09	102.20	End Shut-In(2)
189	1563.57	102.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
85.00	Muddy Water W/Oil Specks	0.42

Gas Rates

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



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TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Blake Exploration, LLC

Keller-Davis #1

PO Box 150
Bogue, KS 67625

12-11s-20w Ellis, KS

Job Ticket: 39011

DST#: 2

ATTN: Mike Davignon

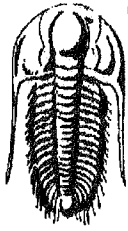
Test Start: 2010.09.28 @ 21:18:27

Tool Information

Drill Pipe:	Length: 3222.00 ft	Diameter: 3.80 inches	Volume: 45.20 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 147.00 ft	Diameter: 2.25 inches	Volume: 0.72 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 45.92 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3365.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	68.00 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			3345.00	
Shut In Tool	5.00			3350.00	
Hydraulic tool	5.00			3355.00	
Packer	5.00		*	3360.00	21.00 Bottom Of Top Packer
Packer	5.00			3365.00	
Stubb	1.00			3366.00	
Perforations	2.00			3368.00	
Change Over Sub	1.00			3369.00	
Blank Spacing	31.00			3400.00	
Change Over Sub	1.00			3401.00	
Recorder	0.00	6668	Inside	3401.00	
Recorder	0.00	8360	Outside	3401.00	
Perforations	8.00			3409.00	
Bullnose	3.00			3412.00	47.00 Bottom Packers & Anchor
Total Tool Length:	68.00				



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FLUID SUMMARY

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Keller-Davis #1

PO Box 150
Bogue, KS 67625

12-11s-20w Ellis, KS

Job Ticket: 39011

DST#: 2

ATTN: Mike Davignon

Test Start: 2010.09.28 @ 21:18:27

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:	52000 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
85.00	Muddy Water W/Oil Specks	0.418

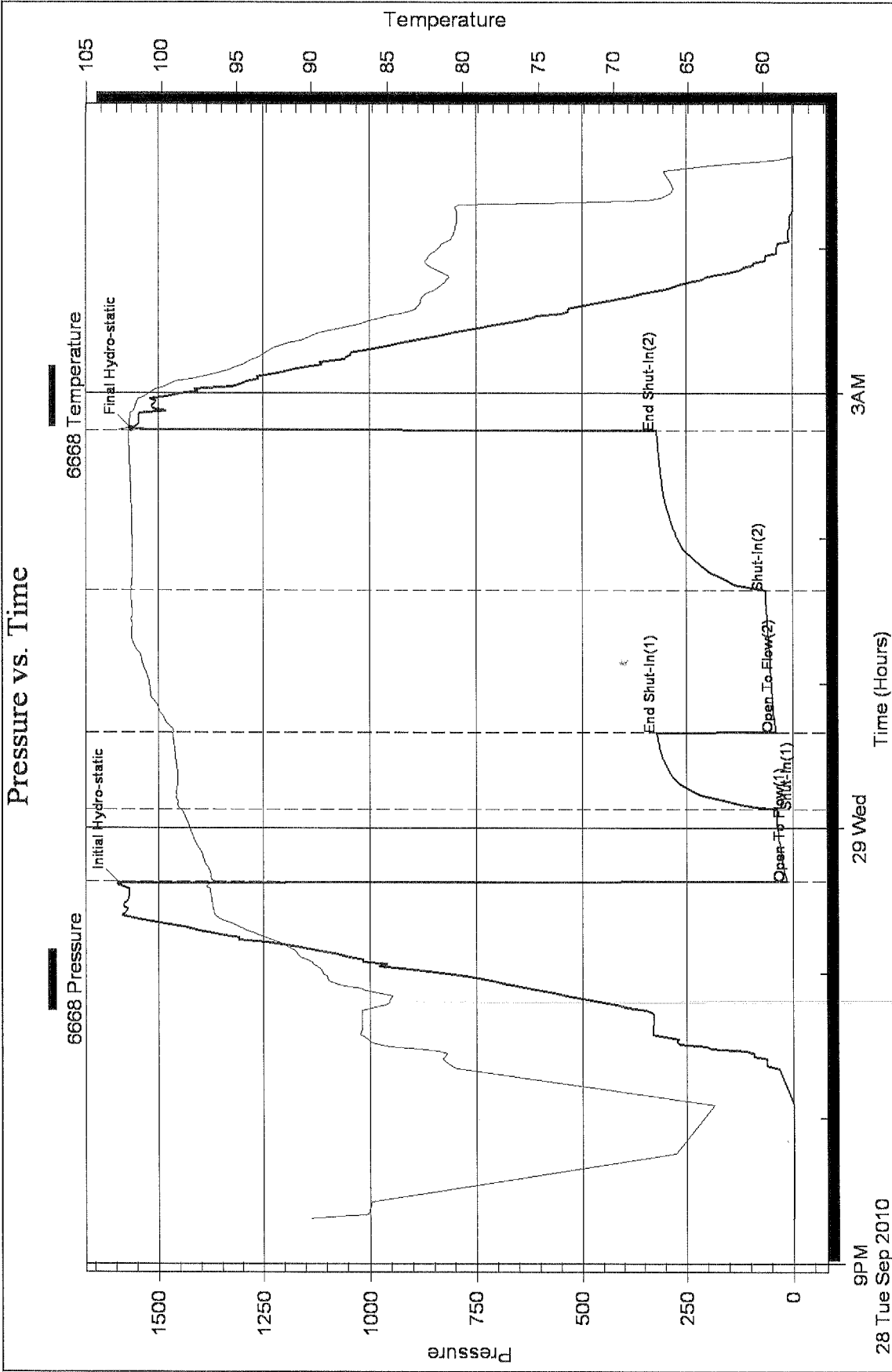
Total Length: 85.00 ft Total Volume: 0.418 bbl

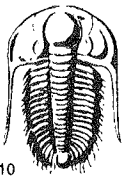
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 039010

RECEIVED
SEP 28 2010

Well Name & No. Kellar/Davis #1 BY: _____ Test No. 1 Date 9-28-10
 Company Blake Exploration LLC Elevation 2050 KB 2075 GL _____
 Address PO Box 150, Bogue, KS 67625
 Co. Rep / Geo. Mike Davignon Rig Murphy #8
 Location: Sec. 12 Twp. 11s Rge. 20w Co. ELLIS State KS

Interval Tested 3310-3370 Zone Tested 'A-C'
 Anchor Length 60' Drill Pipe Run 3129 Mud Wt. 8.7
 Top Packer Depth 3305 Drill Collars Run 176 Vis 76
 Bottom Packer Depth 3310 Wt. Pipe Run 0 WL 6.4
 Total Depth 3370 Chlorides 1900 ppm System LCM 1 #
 Blow Description IFP- Weak, Built to 3/4"
ISI-Dead
FFP- Weak Surface Blow starting after 25 min.
FSI-Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>25</u>	<u>180cm</u>		<u>1</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

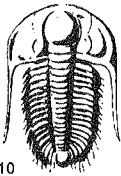
Rec Total 25 BHT 102° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1570 Test 1125- T-On Location 4:16
 (B) First Initial Flow 12 Jars _____ T-Started 4:54
 (C) First Final Flow 24 Safety Joint _____ T-Open 7:38
 (D) Initial Shut-In 302 Circ Sub _____ T-Pulled 11:38
 (E) Second Initial Flow 25 Hourly Standby _____ T-Out 13:21
 (F) Second Final Flow 35 Mileage 80 rt 100- Comments _____
 (G) Final Shut-In 294 Sampler _____
 (H) Final Hydrostatic 1500 Straddle _____
 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1225-
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1225-

Approved By _____ Our Representative Jane McLean

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.

Thank you!



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
OCT 05 2010

Test Ticket

NO. 039011

4/10

RY:

Well Name & No. Keller/Davis #1 Test No. 2 Date 9-28-10
 Company Blake Exploration LLC Elevation 2050 KB 2045 GL
 Address PO Box 150, Bogue, KS. 67625
 Co. Rep / Geo. Mike Davignon Rig Martin #8
 Location: Sec. 12 Twp. 11s Rge. 20w Co. Ellis State KS

Interval Tested 3365-3412 Zone Tested "E + F"
 Anchor Length 47' Drill Pipe Run _____ Mud Wt. 8.8
 Top Packer Depth 3360 Drill Collars Run 147 Vis 57
 Bottom Packer Depth 3365 Wt. Pipe Run 0 WL 6.4
 Total Depth 3412 Chlorides 2600 ppm System LCM 1/2"
 Blow Description IIFP-Weak Blow, Built to 2"
ISI-Dead
IIFP-Weak Blow, Built to 1 1/2"
FSI-Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>85</u>	<u>Muddy Water, w/oil specks</u>		<u>60</u>	<u>40</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 85 BHT 102° Gravity _____ API RW 212 @ 51 °F Chlorides 52,000 ppm

(A) Initial Hydrostatic <u>1592</u>	<input type="checkbox"/> Test <u>1125-</u>	T-On Location <u>2:14</u>
(B) First Initial Flow <u>13</u>	<input type="checkbox"/> Jars _____	T-Started <u>2:18</u>
(C) First Final Flow <u>37</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>23:44</u>
(D) Initial Shut-In <u>320</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>2:44</u>
(E) Second Initial Flow <u>40</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>4:40</u>
(F) Second Final Flow <u>64</u>	<input type="checkbox"/> Mileage <u>80 RT 100-</u>	Comments _____
(G) Final Shut-In <u>321</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1564</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1225-</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1225</u>	

Approved By _____ Our Representative Jason M. Lemson

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.

Thank You!