



DRILL STEM TEST REPORT

Prepared For: **CMX**

1700N Waterfront PKWY BLDG 300B Wichita
KS 67206

ATTN: Ken LeBlanc

Clafin #2-35

35-16s-11w Barton,KS

Start Date: 2015.09.05 @ 10:10:00

End Date: 2015.09.05 @ 15:26:06

Job Ticket #: 62941 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.09.08 @ 09:26:37

CMX 35-16s-11w Barton,KS Clafin #2-35 DST # 1 Arbuckle 2015.09.05



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

CMX

35-16s-11w Barton,KS

1700N Waterfront PKWY BLDG 300B Wichita KS 67206

Claflin #2-35

Job Ticket: 62941

DST#: 1

ATTN: Ken LeBlanc

Test Start: 2015.09.05 @ 10:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:32:51

Time Test Ended: 15:26:06

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 55

Interval: 3370.00 ft (KB) To 3410.00 ft (KB) (TVD)

Reference Elevations: 1939.00 ft (KB)

Total Depth: 3410.00 ft (KB) (TVD)

1931.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8400

Inside

Press@RunDepth: 56.28 psig @ 3371.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.09.05

End Date:

2015.09.05

Last Calib.:

2015.09.05

Start Time:

10:10:01

End Time:

15:26:06

Time On Btm:

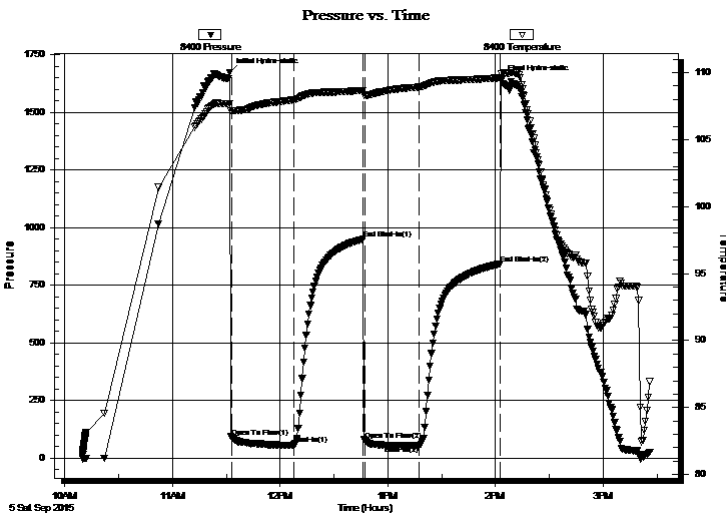
2015.09.05 @ 11:32:06

Time Off Btm:

2015.09.05 @ 14:03:21

TEST COMMENT: IFP-30 Minutes Weak blow built 1/8"
 ISIP-45 Minutes- No blow back
 FFP-30 Minutes- Very weak blow built 1/8"
 FSIP-45 Minutes- No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1674.02	107.67	Initial Hydro-static
1	90.87	107.20	Open To Flow (1)
36	57.88	107.98	Shut-In(1)
75	950.31	108.68	End Shut-In(1)
75	77.78	108.32	Open To Flow (2)
106	56.28	108.92	Shut-In(2)
151	843.31	109.61	End Shut-In(2)
152	1643.97	109.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	HOCM 60% mud 40% oil	0.21

Gas Rates

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



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TESTING, INC.**

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1700N Waterfront PKWY BLDG 300B Wichita KS
67206

Claflin #2-35

Job Ticket: 62941

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Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 55

Interval: 3370.00 ft (KB) To 3410.00 ft (KB) (TVD)

Reference Elevations: 1939.00 ft (KB)

Total Depth: 3410.00 ft (KB) (TVD)

1931.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6666 Outside

Press@RunDepth: 842.00 psig @ 3372.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.09.05

End Date:

2015.09.05

Last Calib.:

2015.09.05

Start Time: 10:10:01

End Time:

15:26:21

Time On Btm:

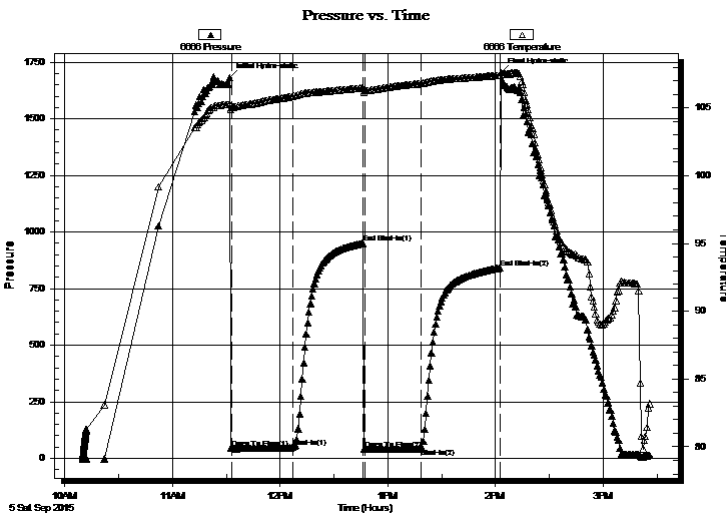
2015.09.05 @ 11:32:06

Time Off Btm:

2015.09.05 @ 14:03:21

TEST COMMENT: IFP-30 Minutes Weak blow built 1/8"
ISIP-45 Minutes- No blow back
FFP-30 Minutes- Very weak blow built 1/8"
FSIP-45 Minutes- No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1682.03	105.30	Initial Hydro-static
1	45.81	105.04	Open To Flow (1)
35	49.19	105.86	Shut-In(1)
75	950.41	106.49	End Shut-In(1)
75	40.78	106.26	Open To Flow (2)
107	44.19	106.80	Shut-In(2)
151	842.00	107.41	End Shut-In(2)
152	1705.04	107.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	HOCM 60% mud 40% oil	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX

35-16s-11w Barton,KS

1700N Waterfront PKWY BLDG 300B Wichita KS
67206

Claflin #2-35

Job Ticket: 62941

DST#: 1

ATTN: Ken LeBlanc

Test Start: 2015.09.05 @ 10:10:00

Tool Information

Drill Pipe:	Length: 3374.00 ft	Diameter: 3.80 inches	Volume: 47.33 bbl	Tool Weight: 1000.00 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: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 47.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3370.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 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
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Shut In Tool	5.00			3347.00	
Hydraulic tool	5.00			3352.00	
Jars	6.00			3358.00	
Safety Joint	2.00			3360.00	
Packer	5.00			3365.00	28.00 Bottom Of Top Packer
Packer	5.00			3370.00	
Recorder	1.00	8400	Inside	3371.00	
Recorder	1.00	6666	Outside	3372.00	
Anchor	34.00			3406.00	
Bullnose	4.00			3410.00	40.00 Bottom Packers & Anchor
Total Tool Length:	68.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

CMX

35-16s-11w Barton,KS

1700N Waterfront PKWY BLDG 300B Wichita KS
67206

Claflin #2-35

Job Ticket: 62941

DST#: 1

ATTN: Ken LeBlanc

Test Start: 2015.09.05 @ 10:10:00

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:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	HOCM 60% mud 40% oil	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

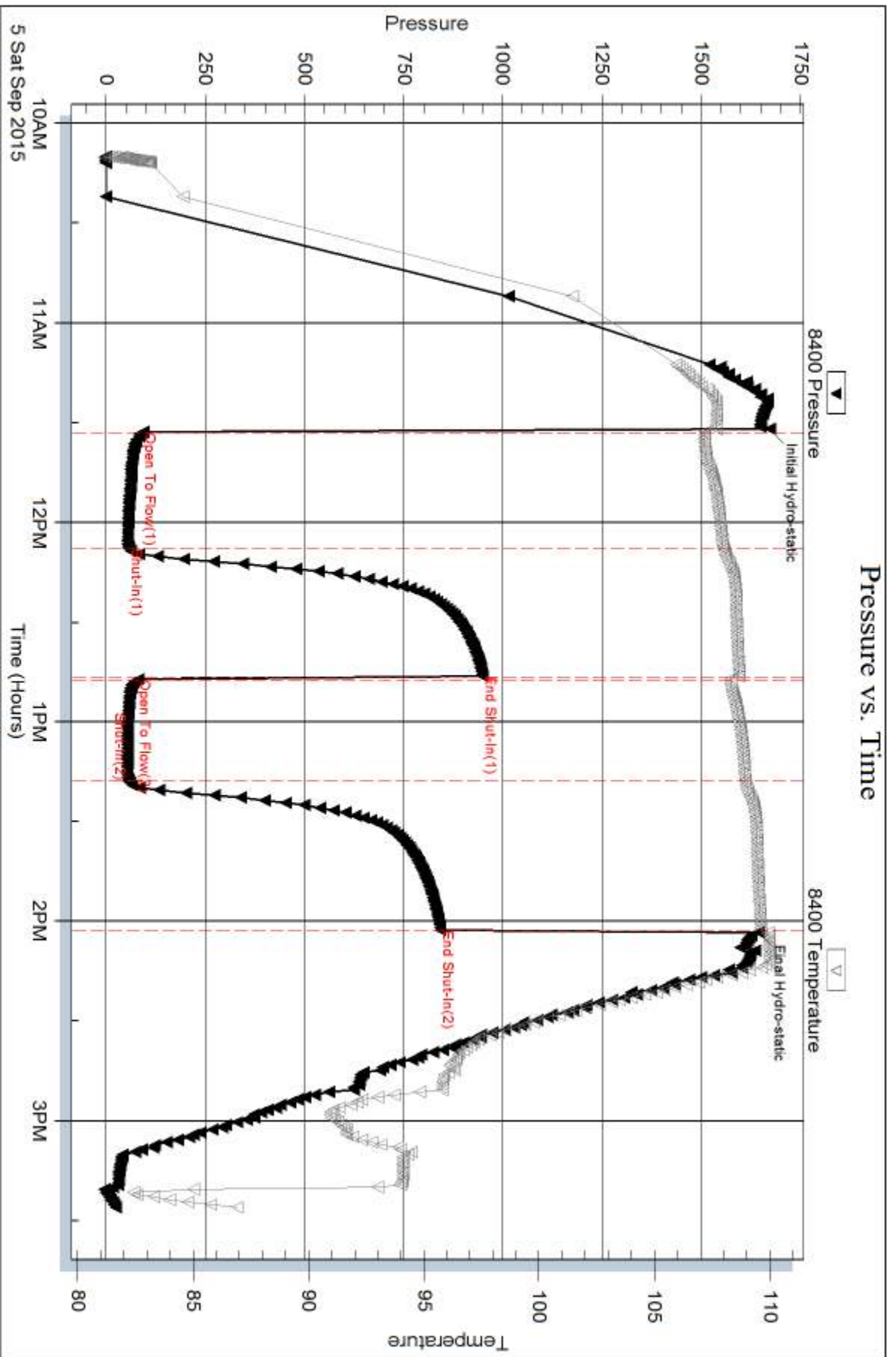
Num Gas Bombs: 0

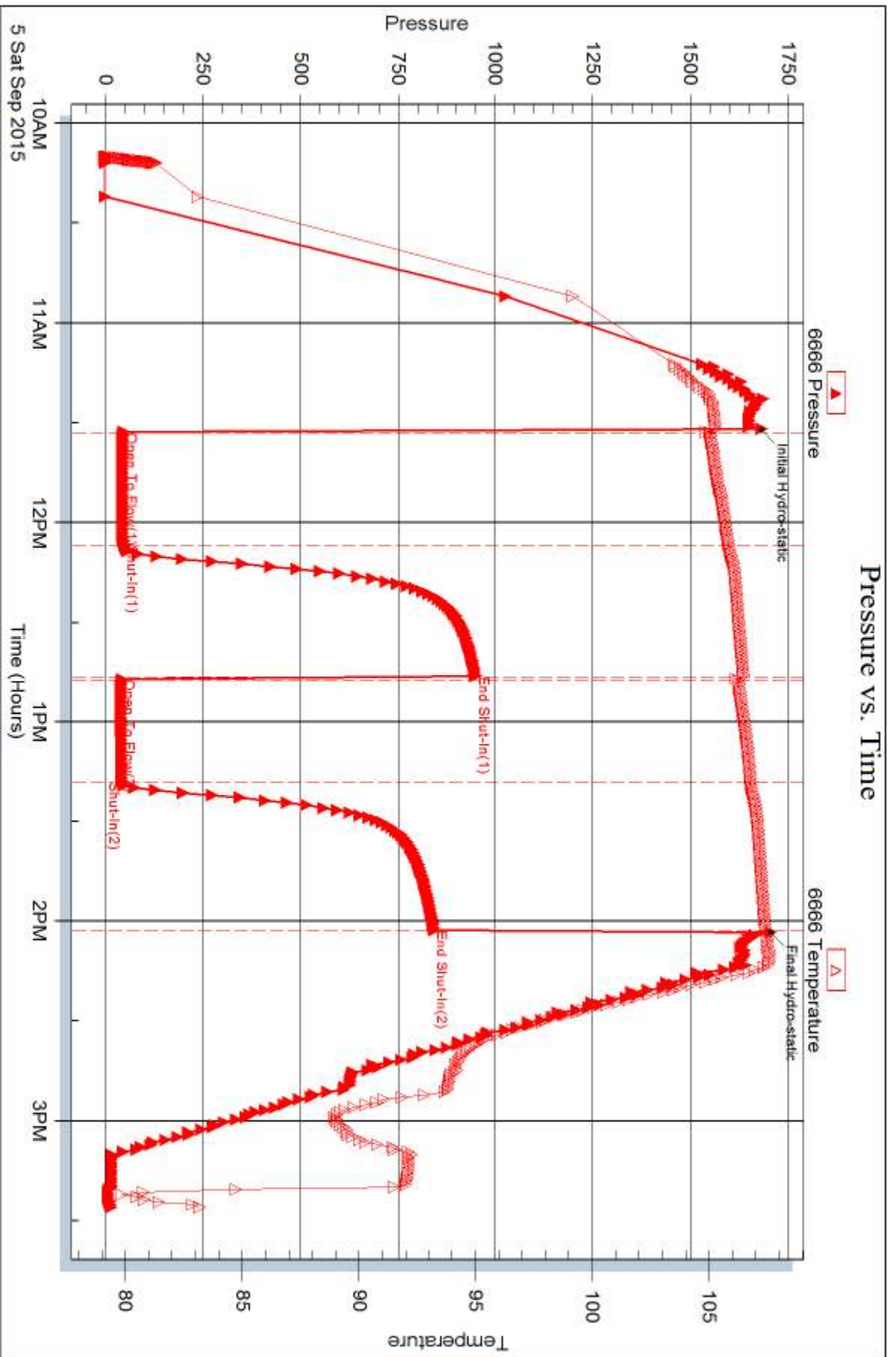
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **CMX**

1700N Waterfront PKWY BLDG 300B Wichita
KS 67206

ATTN: Ken LeBlanc

Clafin #2-35

35-16s-11w Barton,KS

Start Date: 2015.09.05 @ 20:50:00

End Date: 2015.09.06 @ 04:33:20

Job Ticket #: 62942 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.09.08 @ 09:23:27

CMX 35-16s-11w Barton,KS Clafin #2-35 DST # 2 Arbuckle 2015.09.05



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

CMX

35-16s-11w Barton,KS

1700N Waterfront PKWY BLDG 300B Wichita KS
67206

Claflin #2-35

Job Ticket: 62942

DST#: 2

ATTN: Ken LeBlanc

Test Start: 2015.09.05 @ 20:50:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:10:20

Time Test Ended: 04:33:20

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 55

Interval: 3410.00 ft (KB) To 3415.00 ft (KB) (TVD)

Reference Elevations: 1939.00 ft (KB)

Total Depth: 3415.00 ft (KB) (TVD)

1931.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8400

Inside

Press@RunDepth: 157.83 psig @ 3411.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.09.05

End Date:

2015.09.06

Last Calib.:

2015.09.06

Start Time:

20:50:01

End Time:

04:33:20

Time On Btm:

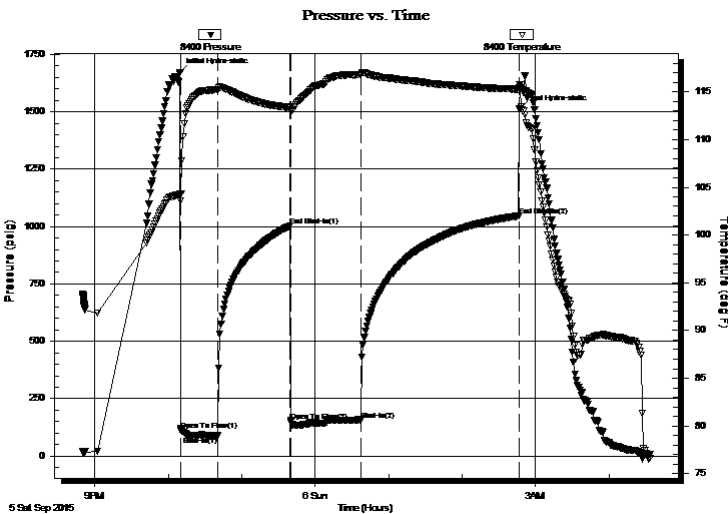
2015.09.05 @ 22:09:35

Time Off Btm:

2015.09.06 @ 02:46:50

TEST COMMENT: IFP-30 Minutes- BOB in 11 minutes
ISIP 60 Minutes- No blow back
FFP-60-Minutes- BOB in 21 1/2 minutes
FSIP-120 Minutes- No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1672.20	104.31	Initial Hydro-static
1	112.61	104.34	Open To Flow (1)
31	87.48	115.20	Shut-In(1)
90	1002.27	113.35	End Shut-In(1)
91	153.12	112.91	Open To Flow (2)
148	157.83	116.76	Shut-In(2)
277	1046.61	115.26	End Shut-In(2)
278	1511.70	115.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MO 50%oil 50%mud	0.84
360.00	GSOCM 10%gas 85%oil 5%mud	5.05
0.00	60' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX

35-16s-11w Barton,KS

1700N Waterfront PKWY BLDG 300B Wichita KS
67206

Claflin #2-35

Job Ticket: 62942

DST#: 2

ATTN: Ken LeBlanc

Test Start: 2015.09.05 @ 20:50:00

Tool Information

Drill Pipe:	Length: 3402.00 ft	Diameter: 3.80 inches	Volume: 47.72 bbl	Tool Weight: 1000.00 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: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 47.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3410.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	5.00 ft			
Tool Length:	33.00 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			3387.00	
Hydraulic tool	5.00			3392.00	
Jars	6.00			3398.00	
Safety Joint	2.00			3400.00	
Packer	5.00			3405.00	28.00 Bottom Of Top Packer
Packer	5.00			3410.00	
Recorder	1.00	8400	Inside	3411.00	
Recorder	1.00	6666	Outside	3412.00	
Anchor	1.00			3413.00	
Bullnose	2.00			3415.00	5.00 Bottom Packers & Anchor
Total Tool Length:	33.00				



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35-16s-11w Barton,KS

1700N Waterfront PKWY BLDG 300B Wichita KS
67206

Claflin #2-35

Job Ticket: 62942

DST#: 2

ATTN: Ken LeBlanc

Test Start: 2015.09.05 @ 20:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MO 50%oil 50%mud	0.842
360.00	GSOCM 10%gas 85%oil 5%mud	5.050
0.00	60' GIP	0.000

Total Length: 420.00 ft Total Volume: 5.892 bbl

Num Fluid Samples: 0

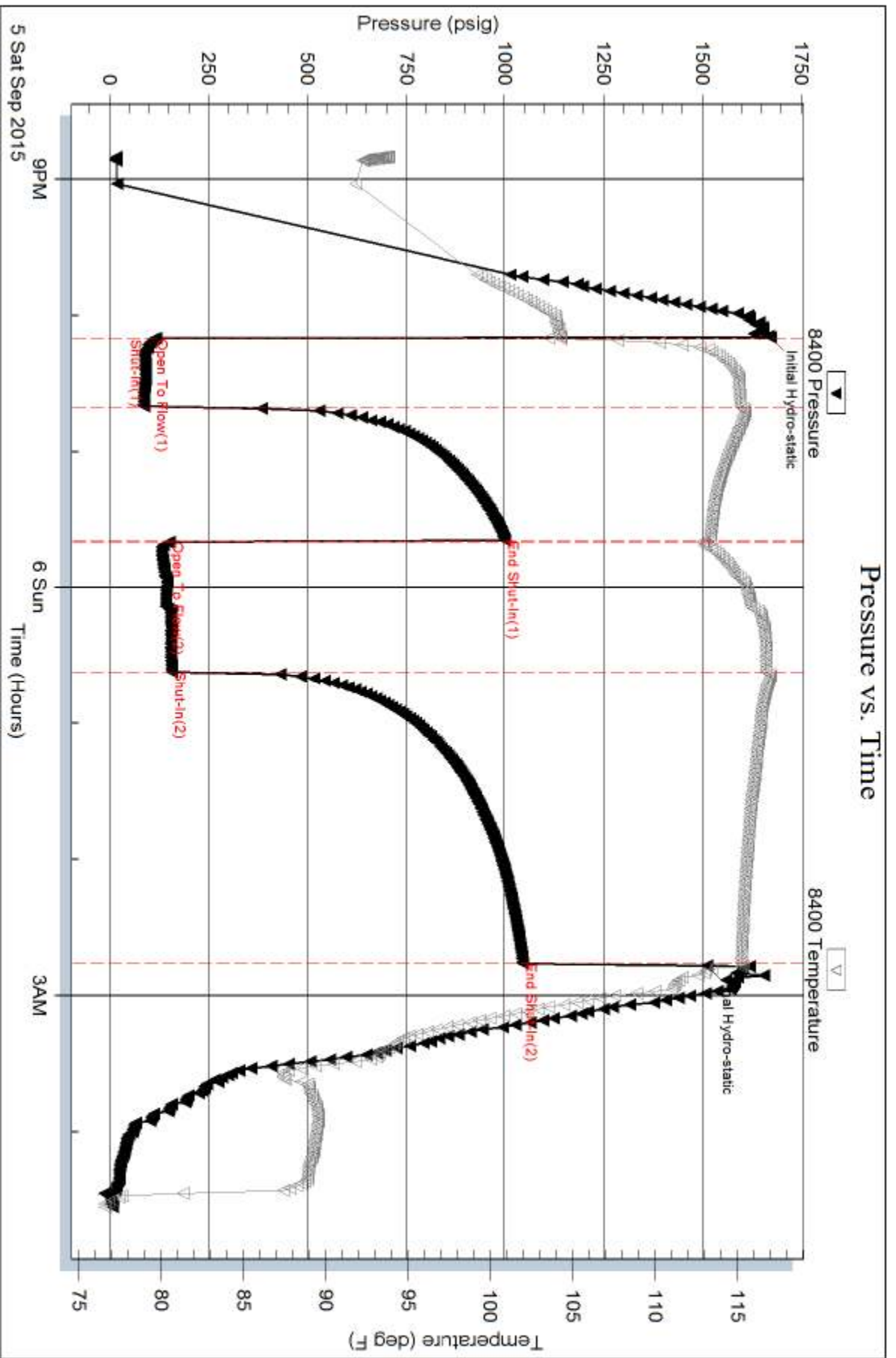
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: gravity oil 40

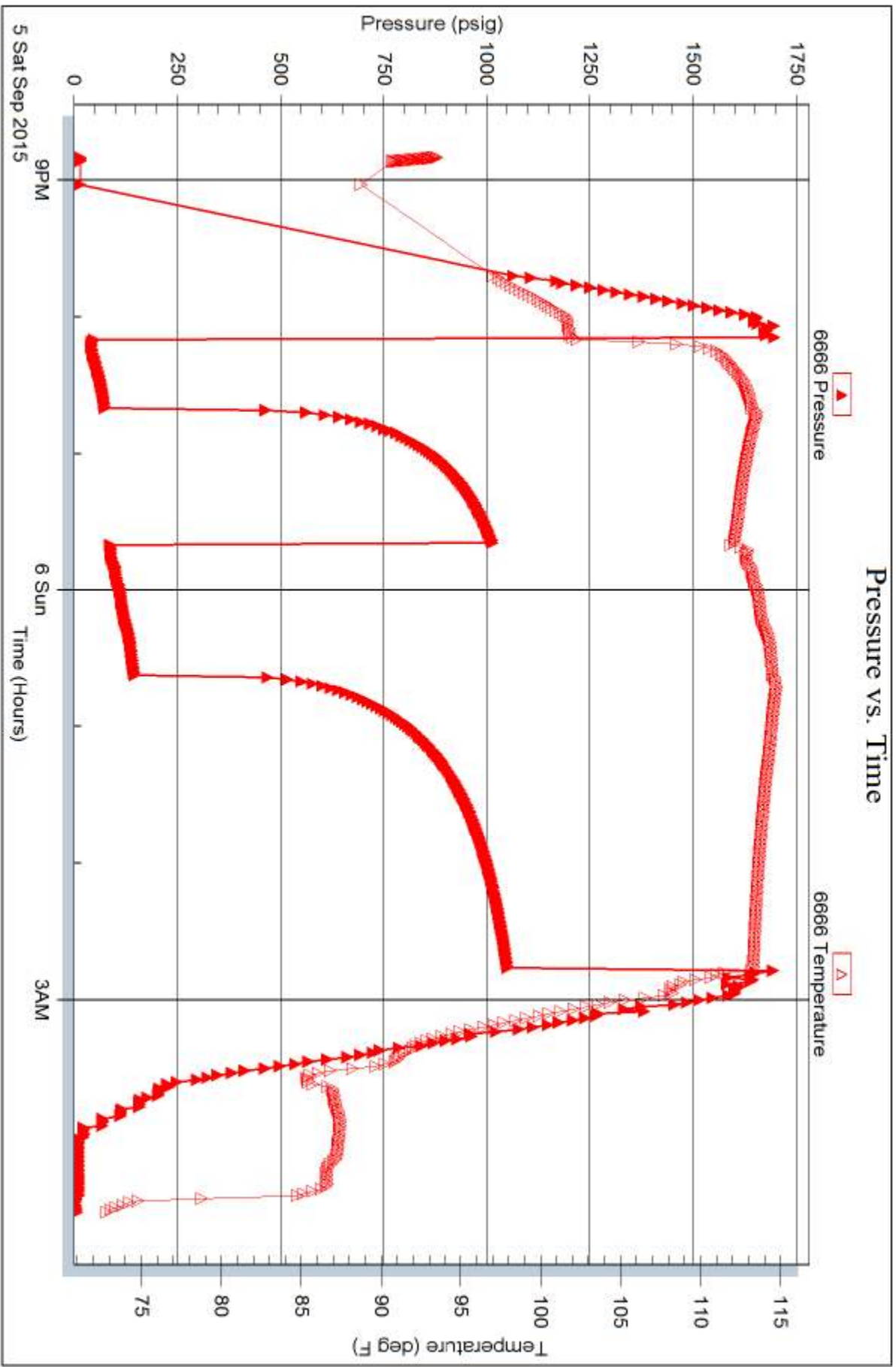


Serial #: 6666

Outside CMX

Carlin #2-35

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 62942

Printed: 2015.09.08 @ 09:23:29



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62941

Well Name & No. Clafin 2-35 Test No. 1 Date 9-5-15
 Company CMX Elevation 1939 KB 1931 GL
 Address 1700 N Waterfront PKWY Bldg 300B Wichita KS 67206
 Co. Rep / Geo. _____ Rig Duke Drilling Rig #2
 Location: Sec. 35 Twp. 16g Rge. 1/4 Co. Barton State KS

Interval Tested 3370 - 3410 Zone Tested Arbuckle
 Anchor Length 40 Drill Pipe Run _____ Mud Wt. 9.3
 Top Packer Depth 3365 Drill Collars Run _____ Vis 54
 Bottom Packer Depth 3370 Wt. Pipe Run _____ WL 8.8
 Total Depth 3410 Chlorides 7,000 ppm System LCM _____

Blow Description IFP - Weak Blow Built by inch
ISIP - NO Blow Back
FFP - Very Weak Blow Built by inch
FSIP - NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>			<u>40</u>		<u>60</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 _____ BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1674 Test 1050 T-On Location 9:30
 (B) First Initial Flow 90 Jars 250 T-Started 10:10
 (C) First Final Flow 57 Safety Joint 75 T-Open 11:35
 (D) Initial Shut-In 950 Circ Sub _____ T-Pulled 2:05
 (E) Second Initial Flow 77 Hourly Standby _____ T-Out 3:26 15:26
 (F) Second Final Flow 56 Mileage 52 mile RT Great Bend Comments _____
 (G) Final Shut-In 843 Sampler _____ Ruined Shale Packer _____
 (H) Final Hydrostatic 1643 Straddle _____ Ruined Packer _____
 Initial Open 30 Shale Packer _____ Extra Copies _____
 Initial Shut-In 45 Extra Packer _____ Sub Total 0
 Final Flow 30 Extra Recorder _____ Total 1427
 Final Shut-In 45 Day Standby _____ MP/DST Disc't _____
 Sub Total 1427 Accessibility _____

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. 62942

Well Name & No. Clarklin 2-35 Test No. 2 Date 9-05-2015
 Company CMX Elevation _____ KB _____ GL _____
 Address 1700 W Waterfront Pkwy Bldg 300B Wichita KS 67206
 Co. Rep / Geo. Ken Lablanc Rig Dike Drilling Rig #2
 Location: Sec. 35 Twp. 16s Rge. 11w Co. Barton State KS

Interval Tested 3410 - 3415 Zone Tested Air Buckle
 Anchor Length 5 Drill Pipe Run _____ Mud Wt. 9.3
 Top Packer Depth 3405 Drill Collars Run _____ Vis 6.0
 Bottom Packer Depth 3410 Wt. Pipe Run _____ WL 8.8
 Total Depth 3415 Chlorides 7,000 ppm System LCM _____

Blow Description FFP - Fair Blow Built Bottom of Bucket in 11 minutes
FSIP - NO Blow Back
FFP - Fair Blow Built Bottom of Bucket in 2 1/2 minutes
FSIP - NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>oil mud</u>	<u>50</u>	<u>50</u>	<u>50</u>	<u>50</u>
<u>360</u>	<u>clean Gas oil</u>	<u>10%</u>	<u>85</u>	<u>5</u>	<u>5</u>
<u>60</u>	<u>Gas in pipe</u>				
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 420 fluid BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1172</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>8:15</u>
(B) First Initial Flow <u>112</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>8:50</u> 20:50
(C) First Final Flow <u>81</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>10:08</u>
(D) Initial Shut-In <u>1002</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>2:38</u>
(E) Second Initial Flow <u>153</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>4:33 AM</u> 9/6/15
(F) Second Final Flow <u>157</u>	<input checked="" type="checkbox"/> Mileage <u>52 miles RT Great Bend</u>	Comments _____
(G) Final Shut-In <u>1046</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1511</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1427</u>
Final Shut-In <u>120</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1427</u>	

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.