

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **N - 10 Exploration**

PO Box 195
Attica KS 67009

ATTN: Tim Pierce

22-34s-11w Barber,KS

Medicine River Ranch E #3

Start Date: 2014.03.04 @ 22:39:43

End Date: 2014.03.05 @ 08:11:13

Job Ticket #: 51881 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.03.07 @ 15:06:36

N - 10 Exploration

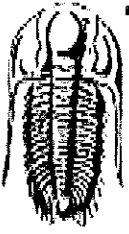
Medicine River Ranch E #3

22-34s-11w Barber,KS

DST # 1

Viola

2014.03.04



**TRILOBITE
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DRILL STEM TEST REPORT

N - 10 Exploration

Medicine River Ranch E #3

PO Box 195
Attica KS 67009

22-34s-11w Barber,KS

Job Ticket: 51881

DST#: 1

ATTN: Tim Pierce

Test Start: 2014.03.04 @ 22:39:43

GENERAL INFORMATION:

Formation: Viola

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:51:13

Time Test Ended: 08:11:13

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 4956.00 ft (KB) To 4986.00 ft (KB) (TVD)

Reference Elevations: 1335.00 ft (KB)

Total Depth: 4986.00 ft (KB) (TVD)

1325.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8352

Inside

Press@RunDepth: 23.89 psig @ 4957.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.04

End Date:

2014.03.05

Last Calib.: 2014.03.05

Start Time: 22:39:48

End Time:

08:11:13

Time On Btmr: 2014.03.05 @ 01:49:58

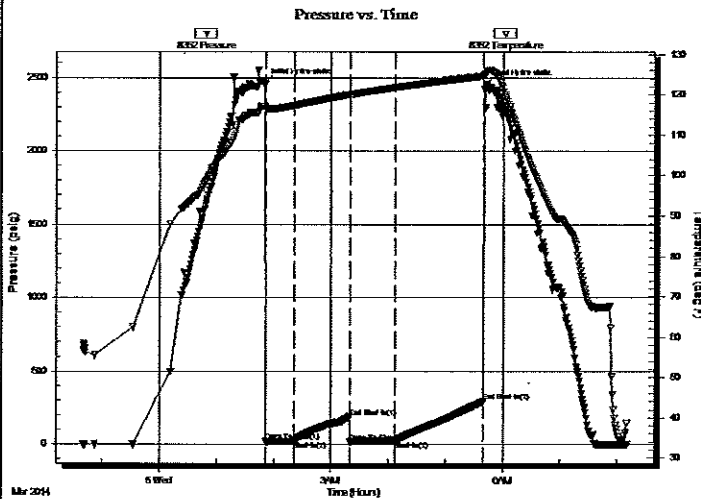
Time Off Btmr: 2014.03.05 @ 05:42:13

TEST COMMENT: IF: Fair blow. Increase to 7".

IS: No blow.

FF: Fair blow. 3 - 8".

FS: No blow.



PRESSURE SUMMARY

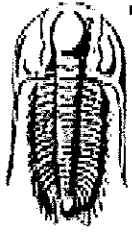
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2460.45	117.22	Initial Hydro-static
2	20.10	116.40	Open To Flow (1)
31	21.66	117.35	Shut-In(1)
90	190.27	120.13	End Shut-In(1)
90	14.98	120.03	Open To Flow (2)
138	23.89	121.84	Shut-In(2)
230	293.15	124.65	End Shut-In(2)
233	2453.76	125.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	GCM w/o specs 6%g 94%m	0.07
0.00	Clean oil @ top of tool	0.00
0.00	345 ft. of GIP	0.00

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

N- 10 Exploration
PO Box 195
Attica KS 67009
ATTN: Tim Pierce

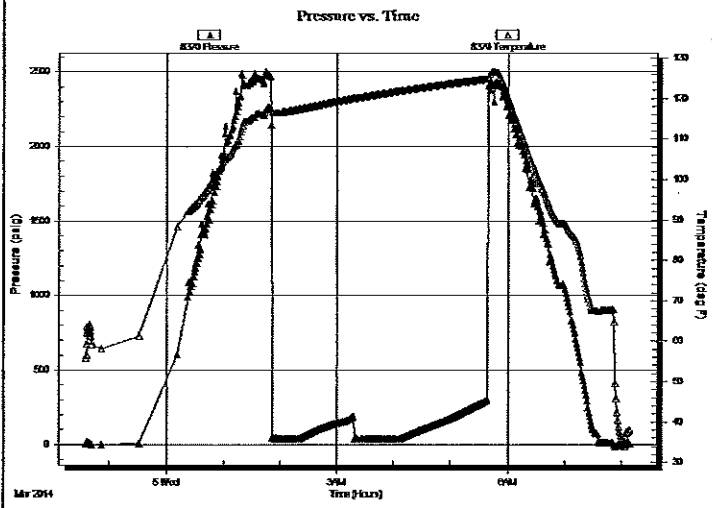
Medicine River Ranch E #3
22-34s-11w Barber,KS
Job Ticket: 51881 **DST#: 1**
Test Start: 2014.03.04 @ 22:39:43

GENERAL INFORMATION:

Formation: **Viola**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: 01:51:13
Time Test Ended: 08:11:13
Test Type: **Conventional Bottom Hole (Initial)**
Tester: **Gary Pevoteaux**
Unit No: **56**
Interval: **4956.00 ft (KB) To 4986.00 ft (KB) (TVD)**
Reference Elevations: **1335.00 ft (KB)**
Total Depth: **4986.00 ft (KB) (TVD)**
1325.00 ft (CF)
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
KB to GR/CF: **10.00 ft**

Serial #: 8370 **Outside**
Press@RunDepth: psig @ 4957.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.03.04 End Date: 2014.03.05 Last Calib.: 2014.03.05
Start Time: 22:35:30 End Time: 08:08:10 Time On Blrm
Time Off Blrm

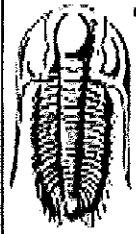
TEST COMMENT: IF:Fair blow . Increase to 7".
IS:No blow .
FF:Fair blow . 3 - 8".
FS:No blow .



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
15.00	GCM w/o specs 6%g 94%m	0.07
0.00	Clean oil @ top of tool	0.00
0.00	345 ft.of GIP	0.00

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

N- 10 Exploration

Medicine River Ranch E #3

PO Box 195
Attica KS 67009

22-34s-11w Barber,KS

Job Ticket: 51881

DST#: 1

ATTN: Tim Pierce

Test Start: 2014.03.04 @ 22:39:43

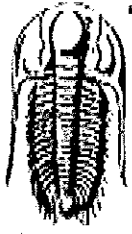
Tool Information

Drill Pipe:	Length: 4829.00 ft	Diameter: 3.80 inches	Volume: 67.74 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 68.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4956.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	50.00 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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C.O. Sub	1.00			4937.00	
Shut in tool	5.00			4942.00	
HMV	5.00			4947.00	
Packer	4.00			4951.00	20.00 Bottom Of Top Packer
Packer	5.00			4956.00	
Stubb	1.00			4957.00	
Recorder	0.00	8352	Inside	4957.00	
Recorder	0.00	8370	Outside	4957.00	
Perforations	24.00			4981.00	
Bullnose	5.00			4986.00	30.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

N- 10 Exploration

Medicine River Ranch E #3

PO Box 195
Attica KS 67009

22-34s-11w Barber,KS

Job Ticket: 51881

DST#: 1

ATTN: Tim Pierce

Test Start: 2014.03.04 @ 22:39:43

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:

2800 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	GCM w/o specs 6%g 94%m	0.074
0.00	Clean oil @ top of tool	0.000
0.00	345 ft.of GIP	0.000

Total Length: 15.00 ft

Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8352

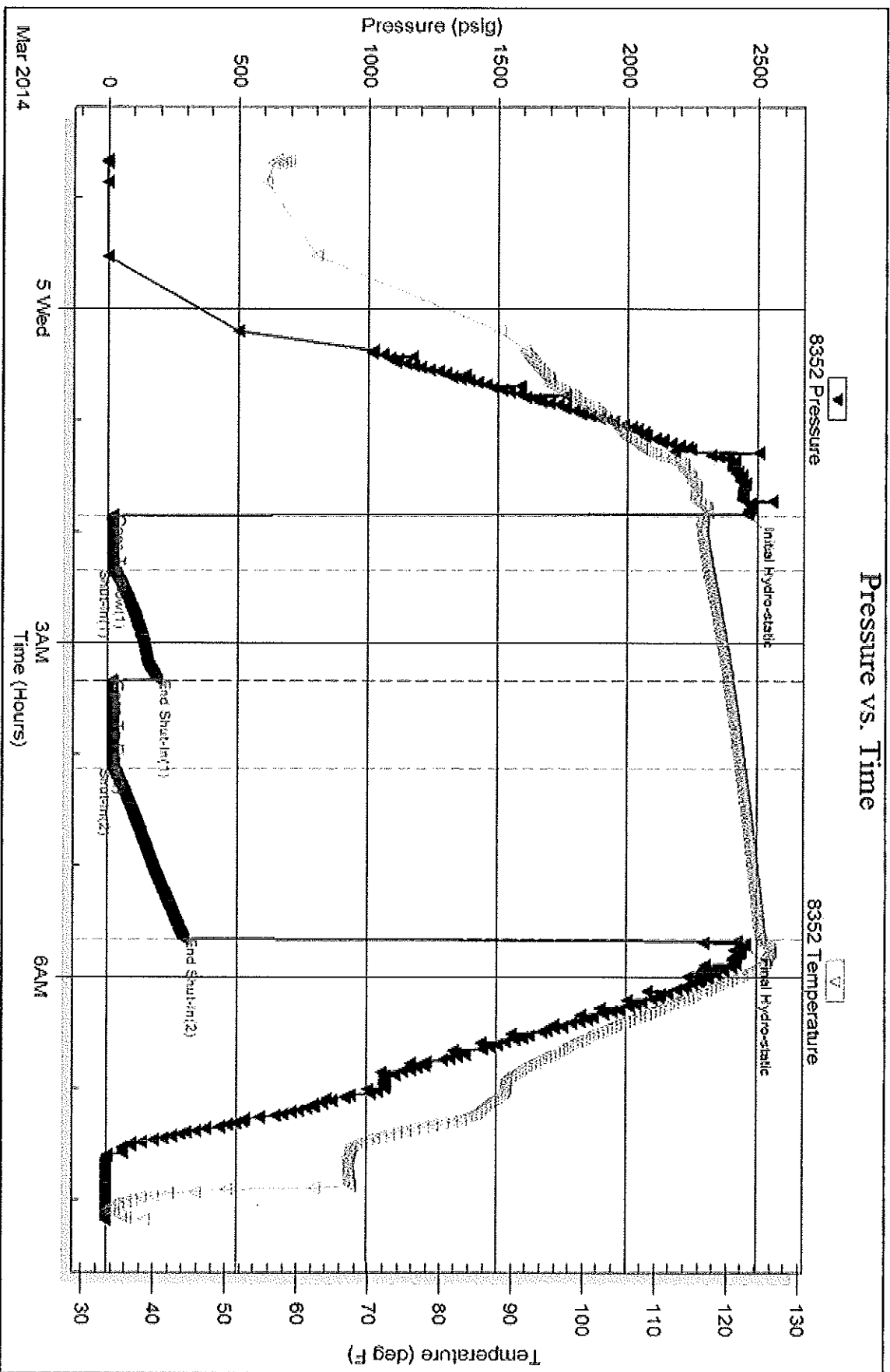
Inside

N - 10 Exploration

22-34s-11w Barber, KS

DST Test Number: 1

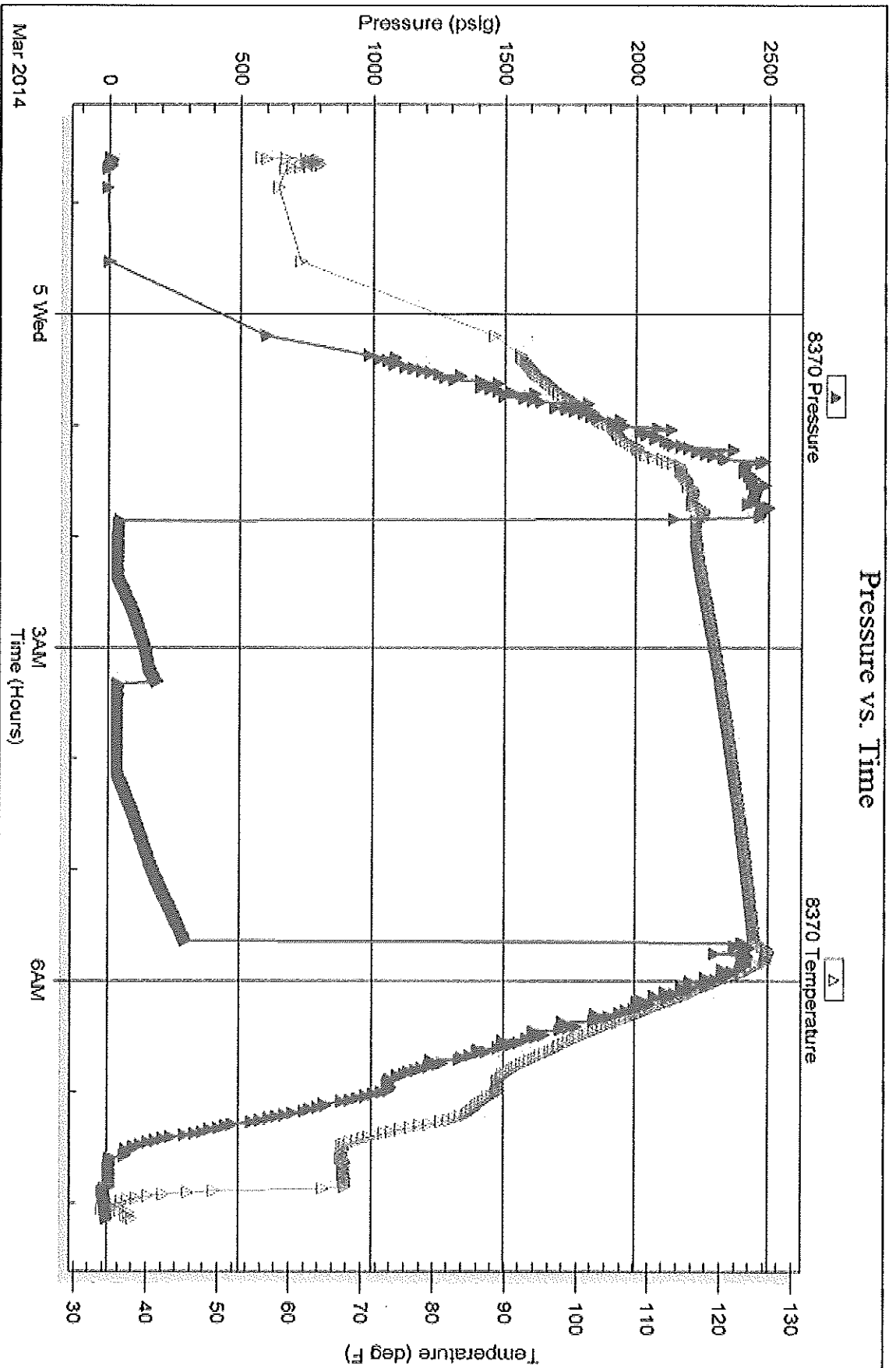
Pressure vs. Time

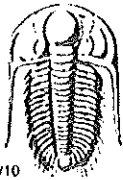


Serial #: 8370 Outside N - 10 Exploration

22-34s-131w Barber, KS

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51881

Well Name & No. MEDICINE RIVER RANCH E-3 Test No. 1 Date 3-4-14
 Company N-10 EXPLORATION Elevation 1335 KB 1325 GL
 Address 124 N. MAIN, P.O. Box 195, NEFFA KS 67009
 Co. Rep / Geo. Tom Peirce Rig HARDY DRUG #1
 Location: Sec. 22 Twp. 34S Rge. 11W Co. BARBER State KS

Interval Tested 4956 - 4986' Zone Tested U10LA
 Anchor Length 30' Drill Pipe Run 4829' Mud Wt. 9.4
 Top Packer Depth 4951' Drill Collars Run 120 Vis 50
 Bottom Packer Depth 4956' Wt. Pipe Run 0 WL 9.2 cc
 Total Depth 4986' Chlorides 2800 ppm System LCM 3 JT
 Blow Description IF: Fair below, Increase to 7". FSI: No blow.

FF: Fair below, 3-8". FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
15	6-6M w. 5 spec.	6			94
	Clear oil @ top of tool				
	345' of Gas in pipe				

Rec Total 15 BHT 125 Gravity N/A API RW N.C. @ °F Chlorides 2800 ppm

(A) Initial Hydrostatic <u>2460</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>2128</u>
(B) First Initial Flow <u>20</u>	<input type="checkbox"/> Jars	T-Started <u>2239</u>
(C) First Final Flow <u>22</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0151</u>
(D) Initial Shut-In <u>190</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0538</u>
(E) Second Initial Flow <u>15</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0811</u>
(F) Second Final Flow <u>24</u>	<input checked="" type="checkbox"/> Mileage <u>1051</u> <u>162.75</u>	Comments
(G) Final Shut-In <u>293</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2454</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>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1412.75</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1412.75</u>	

Approved By Tom Peirce

Our Representative Greg Poterang

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