

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Castle Resources Inc**

PO Box 583
Russell, KS 67665

ATTN: Jerry Green

Kriley #2

22-8s-18w Rooks,KS

Start Date: 2016.09.02 @ 17:15:19

End Date: 2016.09.02 @ 22:06:13

Job Ticket #: 63072 DST #: 1

Castle Resources Inc

22-8s-18w Rooks,KS

Kriley #2

DST # 1

LKC "1" - Arbuckle

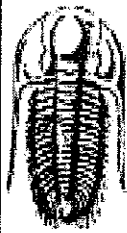
2016.09.02

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.09.06 @ 09:16:27



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Castle Resources Inc

22-8s-18w Rooks,KS

PO Box 583
Russell, KS 67665

Kriley #2

Job Ticket: 63072

DST#: 1

ATTN: Jerry Green

Test Start: 2016.09.02 @ 17:15:19

GENERAL INFORMATION:

Formation: **LKC "I"- Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:54:59

Time Test Ended: 22:06:13

Test Type: Conventional Straddle (Initial)

Tester: Ray Schwager

Unit No: 77

Interval: **3240.00 ft (KB) To 3374.00 ft (KB) (TVD)**

Total Depth: 3426.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1923.00 ft (KB)

1918.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8018 Inside

Press@RunDepth: 26.88 psig @ 3256.00 ft (KB)

Start Date: 2016.09.02

End Date: 2016.09.02

Start Time: 17:15:19

End Time: 22:06:13

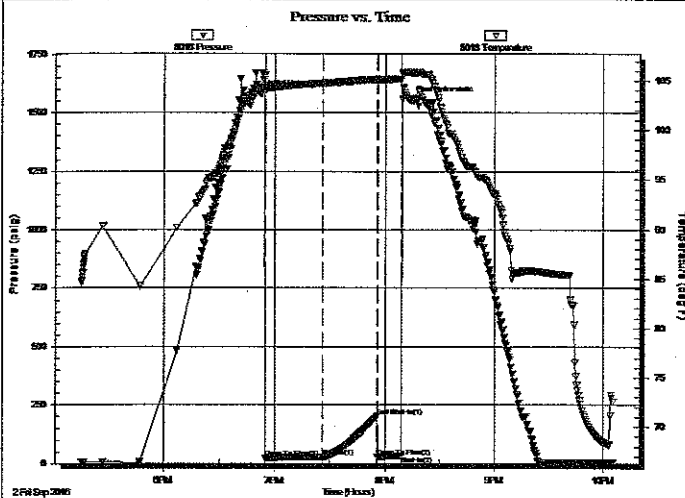
Capacity: 8000.00 psig

Last Calib.: 2016.09.02

Time On Btm: 2016.09.02 @ 18:52:44

Time Off Btm: 2016.09.02 @ 20:13:14

TEST COMMENT: 30-IFP-surface bl died in 23 min
30-ISIP-no bl
10-FFP-no bl flushed tool no help
pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1578.66	104.06	Initial Hydro-static
3	25.23	104.03	Open To Flow (1)
33	26.88	104.73	Shut-In(1)
63	202.27	105.16	End Shut-In(1)
63	28.11	105.06	Open To Flow (2)
77	31.55	105.21	Shut-In(2)
81	1553.97	105.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w/show of oil	0.28

Gas Rates

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



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DRILL STEM TEST REPORT

Castle Resources Inc

22-8s-18w Rooks,KS

PO Box 583
Russell, KS 67665

Kriley #2

Job Ticket: 63072

DST#: 1

ATTN: Jerry Green

Test Start: 2016.09.02 @ 17:15:19

GENERAL INFORMATION:

Formation: LKC "I"- Arbuckle
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:54:59
Time Test Ended: 22:06:13

Test Type: Conventional Straddle (Initial)
Tester: Ray Schwager
Unit No: 77

Interval: 3240.00 ft (KB) To 3374.00 ft (KB) (TVD)
Total Depth: 3426.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

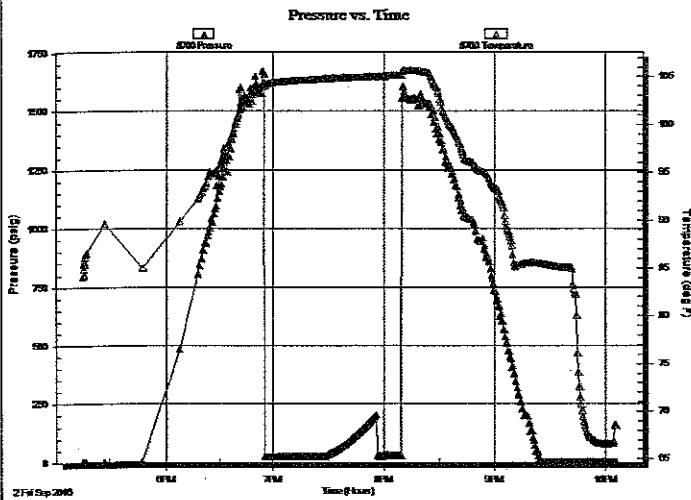
Reference Elevations: 1923.00 ft (KB)
1918.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8700 Outside

Press@RunDepth: psig @ 3256.00 ft (KB)
Start Date: 2016.09.02 End Date: 2016.09.02
Start Time: 17:15:40 End Time: 22:06:34

Capacity: 8000.00 psig
Last Callb.: 2016.09.02
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IFP-surface bl died in 23 min
30-ISIP-no bl
10-FFP-no bl flushed tool no help
pulled tool



PRESSURE SUMMARY

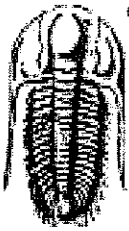
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w/show of oil	0.28

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Castle Resources Inc
PO Box 583
Russell, KS 67665
ATTN: Jerry Green

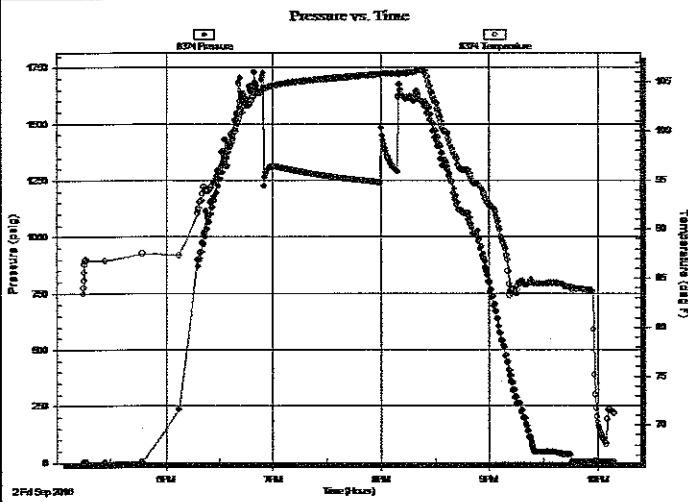
22-8s-18w Rooks,KS
Kriley #2
Job Ticket: 63072 **DST#: 1**
Test Start: 2016.09.02 @ 17:15:19

GENERAL INFORMATION:

Formation: **LKC "I"- Arbuckle**
Deviated: No Whipstock: ft (KB)
Test Type: Conventional Straddle (Initial)
Time Tool Opened: 18:54:59 Tester: Ray Schwager
Time Test Ended: 22:06:13 Unit No: 77
Interval: **3240.00 ft (KB) To 3374.00 ft (KB) (TVD)** Reference Elevations: 1923.00 ft (KB)
Total Depth: 3426.00 ft (KB) (TVD) 1918.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8374 Below (Straddle)
Press@RunDepth: psig @ 3390.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.09.02 End Date: 2016.09.02 Last Calib.: 2016.09.02
Start Time: 17:15:23 End Time: 22:09:32 Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IFP-surface bl died in 23 min
30-ISIP-no bl
10-FFP-no bl flushed tool no help
pulled tool



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

Recovery		
Length (ft)	Description	Volume (bbl)
20.00	Mud w/show of oil	0.28

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Castle Resources Inc

22-8s-18w Rooks,KS

PO Box 583
Russell, KS 67665

Kriley #2

Job Ticket: 63072

DST#: 1

ATTN: Jerry Green

Test Start: 2016.09.02 @ 17:15:19

Tool Information

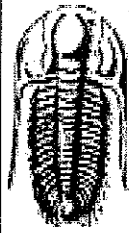
Drill Pipe:	Length: 3231.00 ft	Diameter: 3.80 inches	Volume: 45.32 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 45.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3240.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	3374.00 ft			
Interval between Packers:	134.00 ft			
Tool Length:	207.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3220.00	
Shut In Tool	5.00			3225.00	
Hydraulic tool	5.00			3230.00	
Packer	5.00			3235.00	21.00 Bottom Of Top Packer
Packer	5.00			3240.00	
Stubb	1.00			3241.00	
Perforations	15.00			3256.00	
Recorder	0.00	8018	Inside	3256.00	
Recorder	0.00	8700	Outside	3256.00	
Blank Spacing	97.00			3353.00	
Perforations	17.00			3370.00	
Blank Off Sub	1.00			3371.00	
Blank Spacing	3.00			3374.00	134.00 Tool Interval
Packer	5.00			3379.00	
Stubb	1.00			3380.00	
Perforations	10.00			3390.00	
Recorder	0.00	8374	Below	3390.00	
Blank Spacing	33.00			3423.00	
Bullnose	3.00			3426.00	52.00 Bottom Packers & Anchor

Total Tool Length: 207.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Castle Resources Inc

22-8s-18w Rooks,KS

PO Box 583
Russell, KS 67665

Kriley #2

Job Ticket: 63072

DST#: 1

ATTN: Jerry Green

Test Start: 2016.09.02 @ 17:15:19

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: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud w /show of oil	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

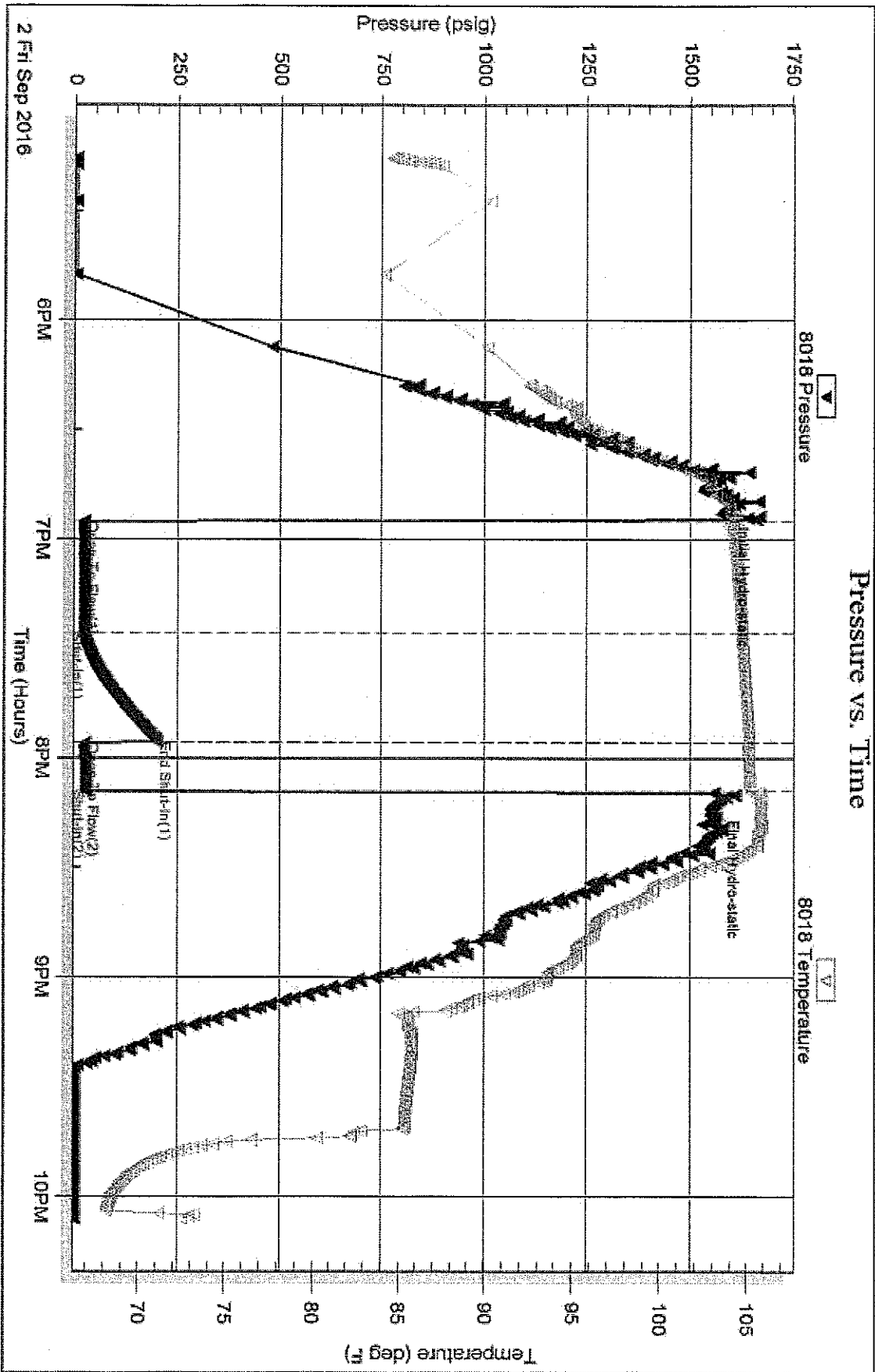
Recovery Comments:

Serial #: 8018

Inside Castle Resources Inc

Kriley #2

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 63072

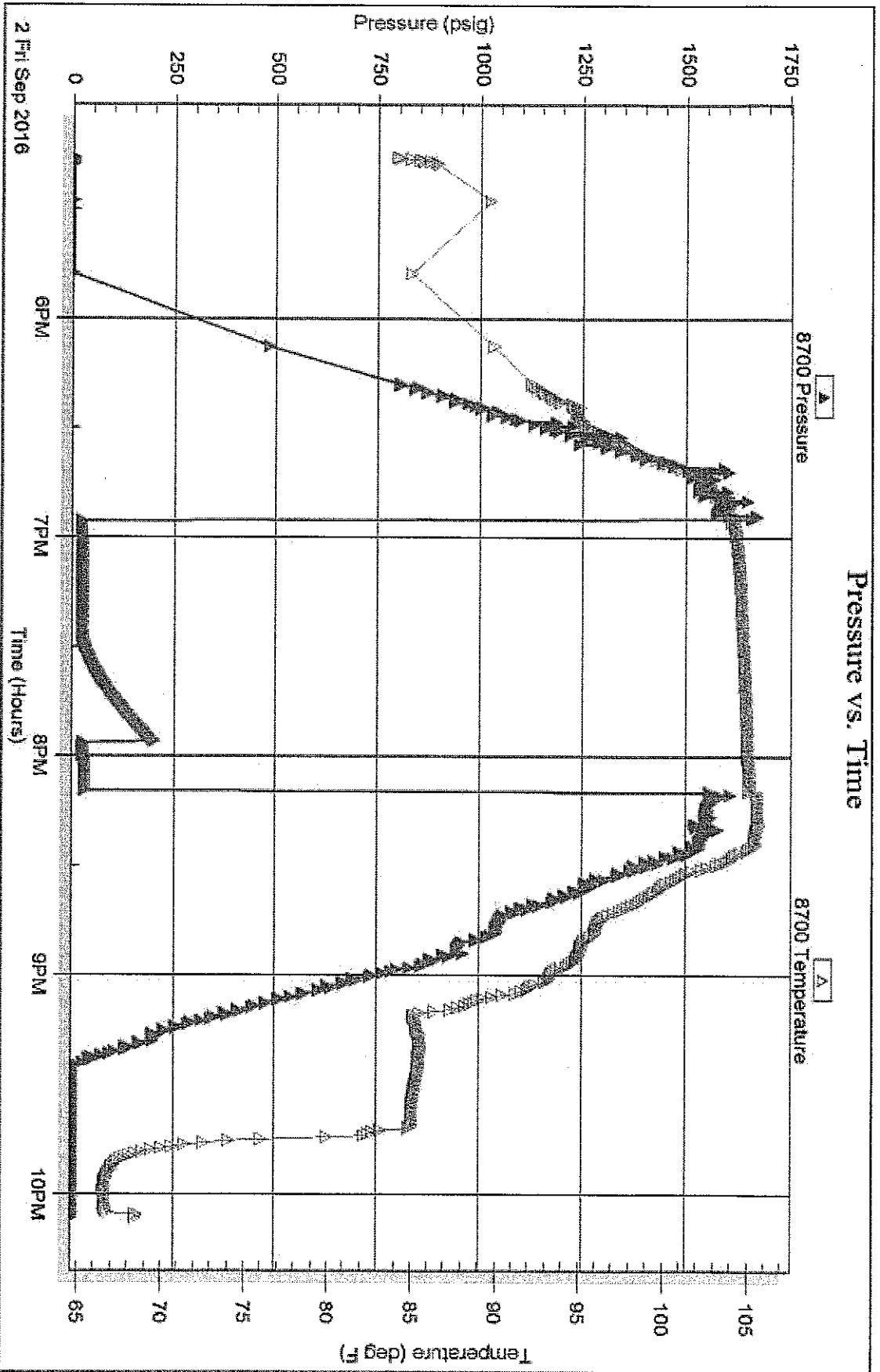
Printed: 2016-09-06 @ 09:16:29

Serial #: 8700

Outside Castle Resources Inc

Kriley #2

DST Test Number: 1

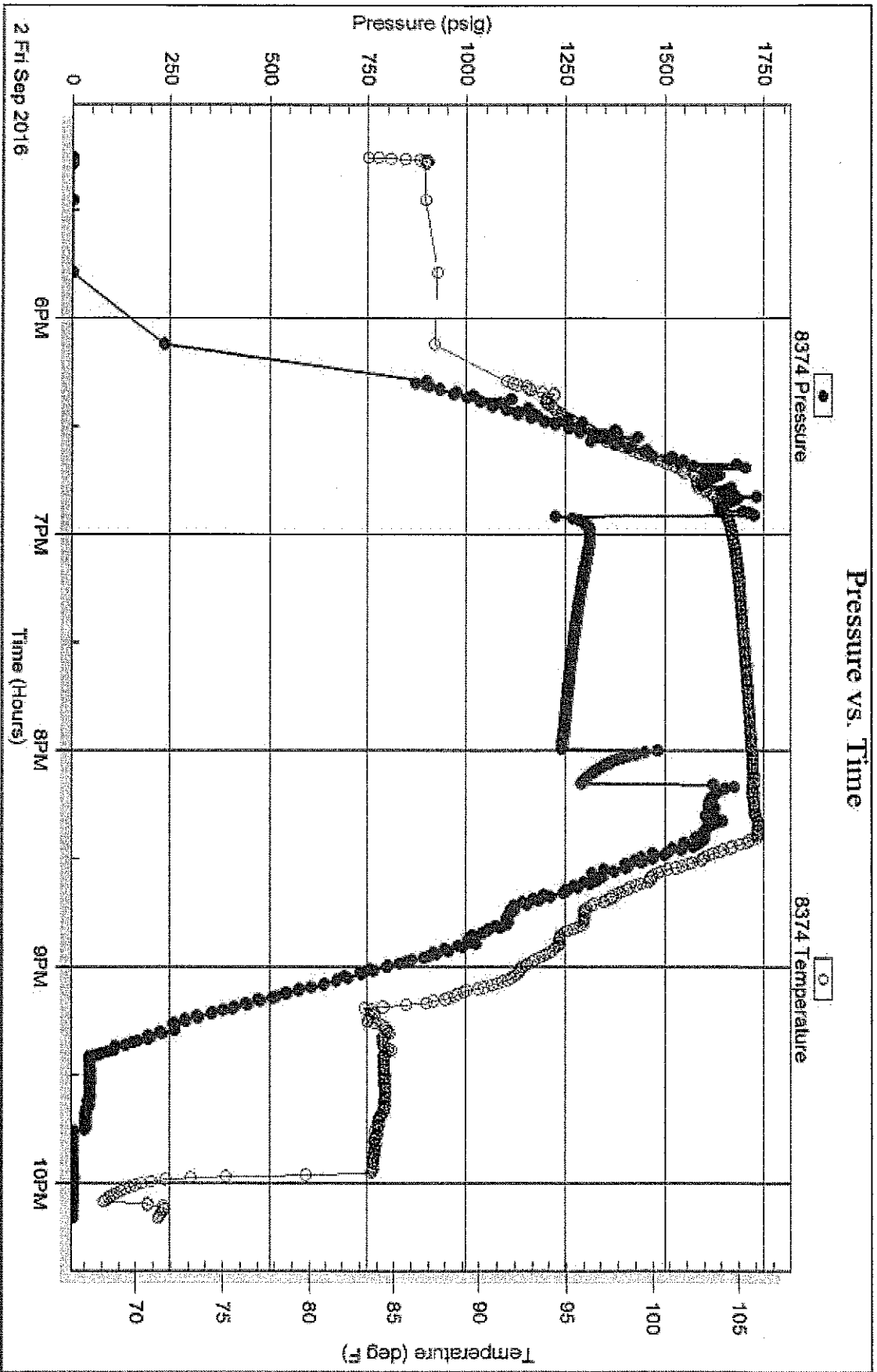


Serial #: 8374

Below (Straddling) Resources Inc.

Kriley #2

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 63072

Printed: 2016.09.06 @ 09:16:29



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63072

Well Name & No. Kriley #2 Test No. 1 Date 9-2-16
 Company Castle Resources Inc. Elevation 1923 KB 1918 GL
 Address _____
 Co. Rep / Geo. Jerry Green Rig White Knight rig
 Location: Sec. 22 Twp. 8^s Rge. 18^w Co. Rooks State Ks

Interval Tested 3240-3374 Zone Tested LKC'I" = Arbuckle
 Anchor Length 134 Drill Pipe Run 3231 Mud Wt. 9.4
 Top Packer Depth 3240-3235 Drill Collars Run — Vis 53
 Bottom Packer Depth 3374 Wt. Pipe Run — WL 8
 Total Depth 3426 Chlorides 3000 ppm System LCM 1/2#
 Blow Description JFP - WEAK SURFACE BLOW DIED IN 23 MIN
TSTP - NO BLOW
FFP - NO BLOW, FLUSHED TOO!

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mud</u>				
	<u>w/show of oil</u>				

Rec Total 20 BHT 105 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>1578</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1600</u>
(B) First Initial Flow <u>25</u>	<input type="checkbox"/> Jars _____	T-Started <u>1715</u>
(C) First Final Flow <u>26</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>1858</u>
(D) Initial Shut-In <u>202</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>2005</u>
(E) Second Initial Flow <u>28</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>2206</u>
(F) Second Final Flow <u>31</u>	<input checked="" type="checkbox"/> Mileage <u>70 RT</u> 52.50	Comments _____
(G) Final Shut-In <u>—</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1553</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>19</u>	<input type="checkbox"/> Day Standby _____	Total <u>1702.50</u>
Final Shut-In <u>0W</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1702.50</u>	

Approved By _____

Our Representative Ray Schwegel Thank you

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.