



DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Corporation**

8100 E 22nd St
Bldg 1500 Ste A
Wichita, KS 62226

ATTN: Wes Hansen

Kristi #1-17

17-20s-34w Scott,KS

Start Date: 2019.06.12 @ 18:01:00

End Date: 2019.06.13 @ 01:03:45

Job Ticket #: 64356 DST #: 1

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

Printed: 2019.06.17 @ 13:16:17



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Eagle Creek Corporation

17-20s-34w Scott,KS

8100 E 22nd St
Bldg 1500 Ste A
Wichita, KS 62226
ATTN: Wes Hansen

Kristi #1-17

Job Ticket: 64356

DST#: 1

Test Start: 2019.06.12 @ 18:01:00

GENERAL INFORMATION:

Formation: **Marmaton A-B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:57:15

Time Test Ended: 01:03:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: 4469.00 ft (KB) To 4536.00 ft (KB) (TVD)

Reference Elevations: 3107.00 ft (KB)

Total Depth: 4536.00 ft (KB) (TVD)

3102.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522 Inside

Press@RunDepth: 31.33 psig @ 4470.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.06.12

End Date:

2019.06.13

Last Calib.: 2019.06.13

Start Time: 18:01:05

End Time:

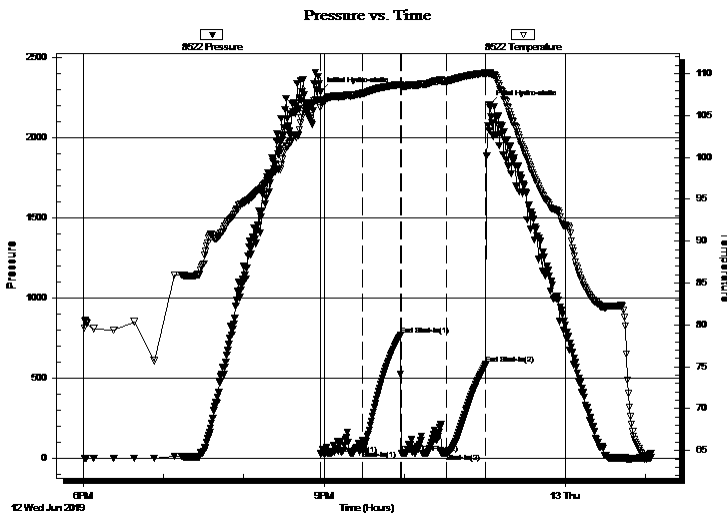
01:03:44

Time On Btm: 2019.06.12 @ 20:57:00

Time Off Btm: 2019.06.12 @ 23:03:30

TEST COMMENT: 30- IF: <1/2" blow .
30- IS: No return.
30- FF: No blow .
30- FSI: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2284.75	106.88	Initial Hydro-static
1	25.94	105.91	Open To Flow (1)
32	46.69	107.62	Shut-In(1)
60	764.73	108.72	End Shut-In(1)
61	29.41	108.40	Open To Flow (2)
94	31.33	109.10	Shut-In(2)
124	583.51	110.08	End Shut-In(2)
127	2208.29	110.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100m	0.02

Gas Rates

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



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17-20s-34w Scott, KS

8100 E 22nd St
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 ATTN: Wes Hansen

Kristi #1-17

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Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Reference Elevations: 3107.00 ft (KB)

3102.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8319 Outside

Press@RunDepth: psig @ 4470.00 ft (KB)

Start Date: 2019.06.12

End Date: 2019.06.13

Capacity: 8000.00 psig

Last Calib.: 2019.06.13

Start Time: 18:01:05

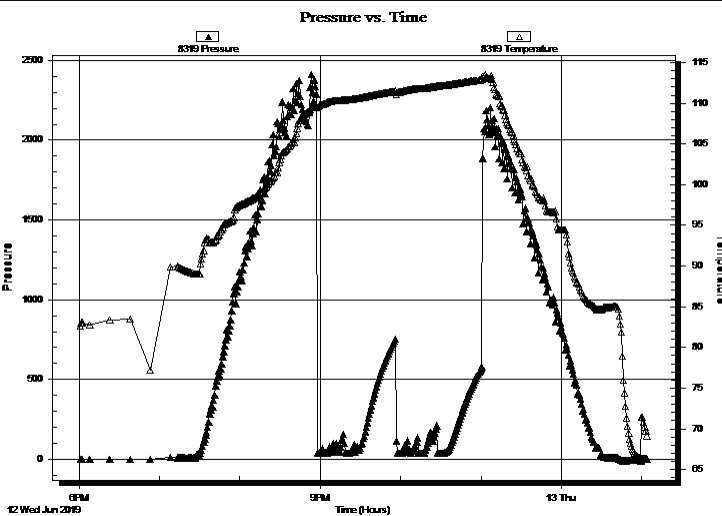
End Time: 01:03:44

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF: <1/2" blow .
 30- IS: No return.
 30- FF: No blow .
 30- FSI: No return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100m	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Eagle Creek Corporation

17-20s-34w Scott,KS

8100 E 22nd St
Bldg 1500 Ste A
Wichita, KS 62226
ATTN: Wes Hansen

Kristi #1-17

Job Ticket: 64356

DST#: 1

Test Start: 2019.06.12 @ 18:01:00

Tool Information

Drill Pipe:	Length: 4331.00 ft	Diameter: 3.80 inches	Volume: 60.75 bbl	Tool Weight: 2500.00 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 61.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4469.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 ft			
Tool Length:	94.00 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			4443.00	
Shut In Tool	5.00		Fluid	4448.00	
Hydraulic tool	5.00			4453.00	
Jars	5.00			4458.00	
Safety Joint	2.00			4460.00	
Packer	5.00		Inside	4465.00	27.00 Bottom Of Top Packer
Packer	4.00			4469.00	
Stubb	1.00			4470.00	
Recorder	0.00	8522	Inside	4470.00	
Recorder	0.00	8319	Outside	4470.00	
Perforations	30.00			4500.00	
Change Over Sub	1.00			4501.00	
Drill Pipe	31.00			4532.00	
Change Over Sub	1.00			4533.00	
Bullnose	3.00			4536.00	67.00 Bottom Packers & Anchor

Total Tool Length: 94.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Eagle Creek Corporation

17-20s-34w Scott, KS

8100 E 22nd St
Bldg 1500 Ste A
Wichita, KS 62226
ATTN: Wes Hansen

Kristi #1-17

Job Ticket: 64356

DST#: 1

Test Start: 2019.06.12 @ 18:01:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8522

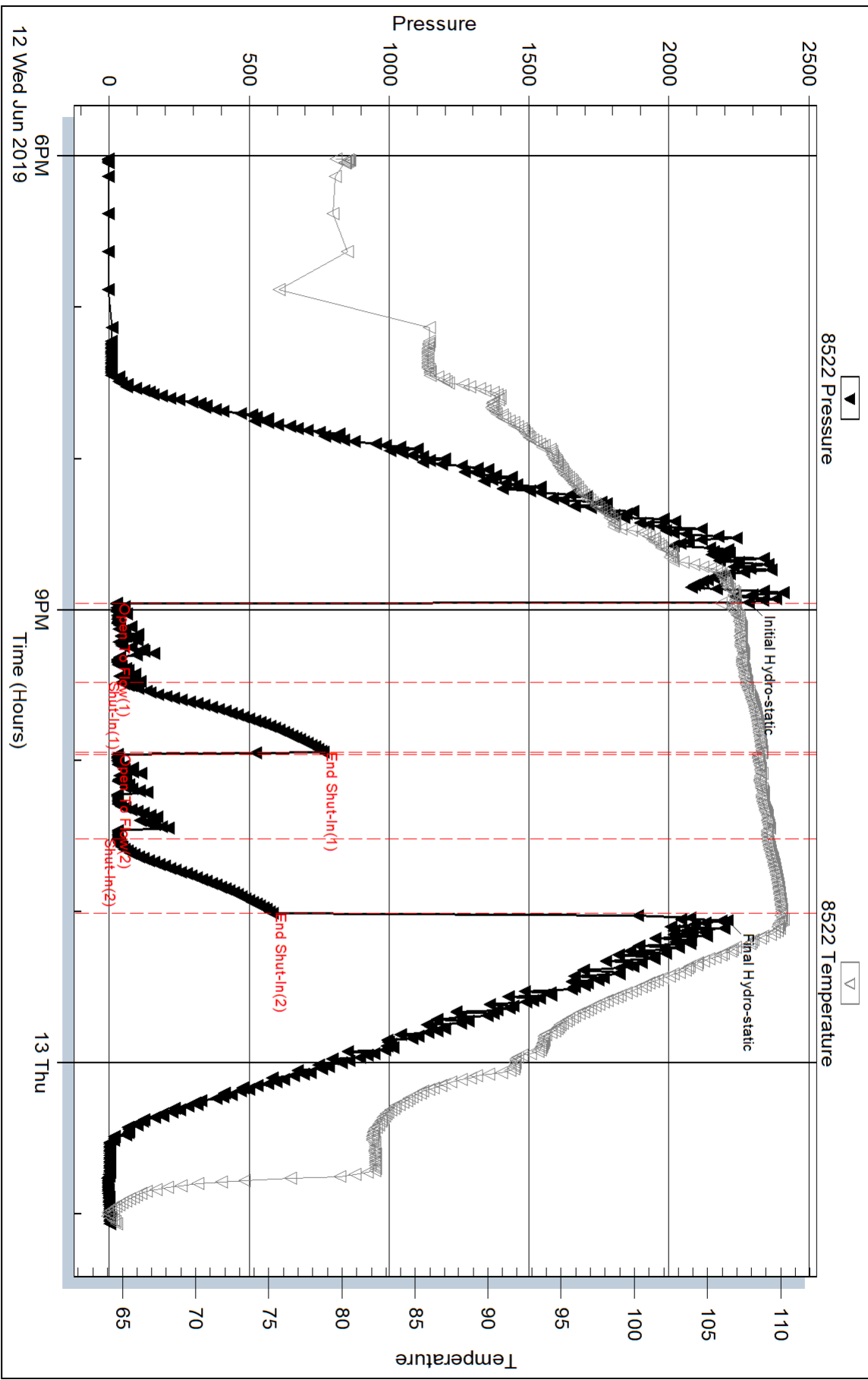
Inside

Eagle Creek Corporation

Kristi #1-17

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 64356

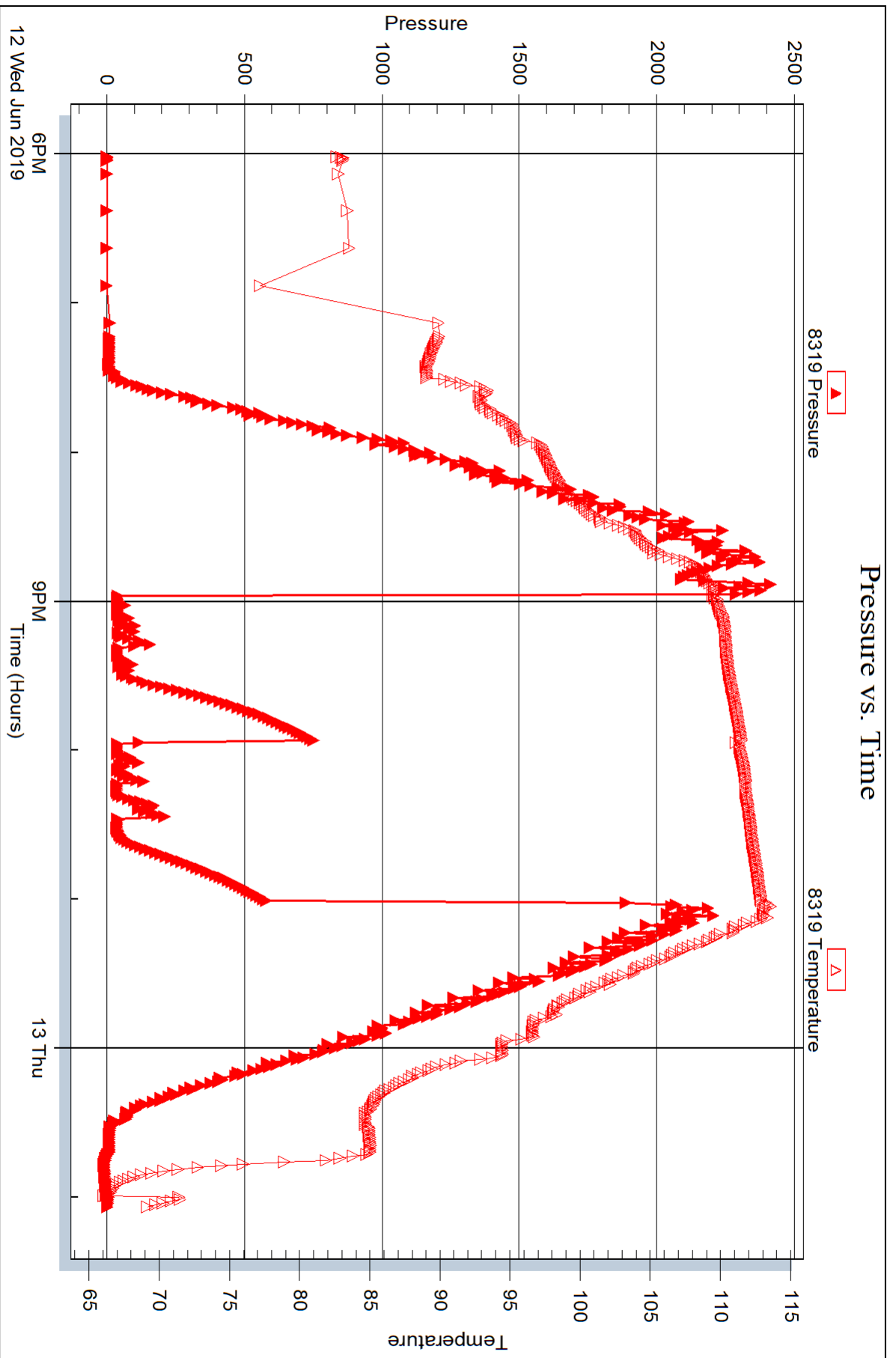
Printed: 2019.06.17 @ 13:16:18

Serial #: 8319

Outside Eagle Creek Corporation

Kristi #1-17

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 64356

Printed: 2019.06.17 @ 13:16:18



DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Corporation**

8100 E 22nd St
Bldg 1500 Ste A
Wichita, KS 62226

ATTN: Wes Hansen

Kristi #1-17

17-20s-34w Scott,KS

Start Date: 2019.06.13 @ 13:06:00

End Date: 2019.06.13 @ 22:22:45

Job Ticket #: 64357 DST #: 2

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

Printed: 2019.06.17 @ 12:01:39



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Eagle Creek Corporation

17-20s-34w Scott, KS

8100 E 22nd St
Bldg 1500 Ste A
Wichita, KS 62226
ATTN: Wes Hansen

Kristi #1-17

Job Ticket: 64357

DST#: 2

Test Start: 2019.06.13 @ 13:06:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:39:30

Time Test Ended: 22:22:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4530.00 ft (KB) To 4600.00 ft (KB) (TVD)

Reference Elevations: 3107.00 ft (KB)

Total Depth: 4600.00 ft (KB) (TVD)

3102.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522 Inside

Press@RunDepth: 205.47 psig @ 4531.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.06.13

End Date:

2019.06.13

Last Calib.:

2019.06.13

Start Time:

13:06:05

End Time:

22:22:45

Time On Btm:

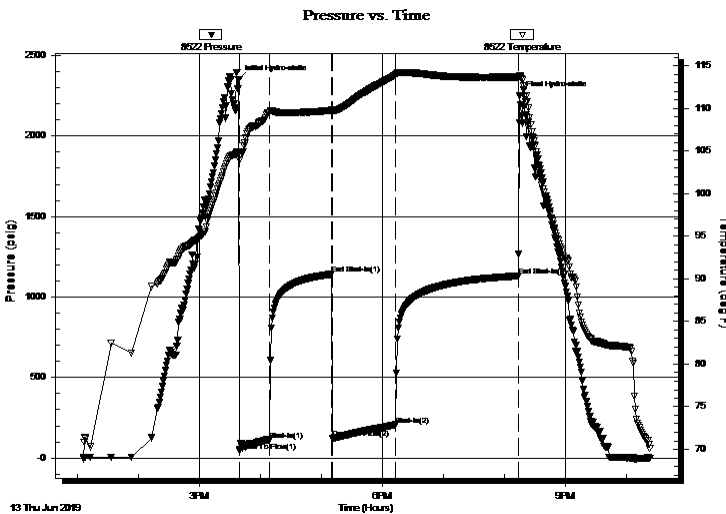
2019.06.13 @ 15:38:45

Time Off Btm:

2019.06.13 @ 20:15:00

TEST COMMENT: 30- IF: 10.5" blow.
60- IS: No return.
60- FF: 16" blow.
120- FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2352.46	104.90	Initial Hydro-static
1	43.63	103.90	Open To Flow (1)
30	113.20	109.48	Shut-In(1)
92	1141.69	109.76	End Shut-In(1)
92	123.11	109.62	Open To Flow (2)
154	205.47	113.88	Shut-In(2)
275	1131.03	113.66	End Shut-In(2)
277	2251.61	113.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
350.00	mcw 25m 75w w/oil spots	3.84

Gas Rates

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

* Recovery from multiple tests



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17-20s-34w Scott, KS

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ATTN: Wes Hansen

Kristi #1-17

Job Ticket: 64357

DST#: 2

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Total Depth: 4600.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3107.00 ft (KB)

3102.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8319

Outside

Press@RunDepth: psig @ 4531.00 ft (KB)

Start Date: 2019.06.13 End Date: 2019.06.13

Start Time: 13:06:05 End Time: 22:22:45

Capacity: 8000.00 psig

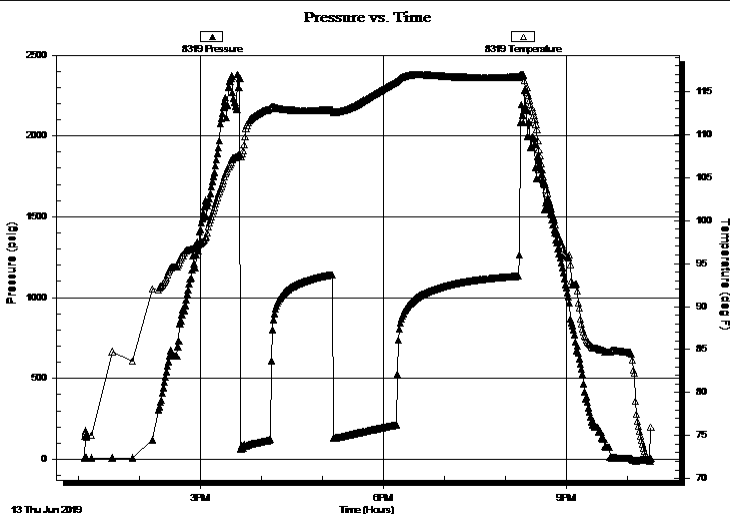
Last Calib.: 2019.06.13

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF: 10.5" blow.
60- IS: No return.
60- FF: 16" blow.
120- FS: No return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
350.00	mcw 25m 75w w/oil spots	3.84

Gas Rates

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

* Recovery from multiple tests



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Eagle Creek Corporation

17-20s-34w Scott,KS

8100 E 22nd St
Bldg 1500 Ste A
Wichita, KS 62226
ATTN: Wes Hansen

Kristi #1-17

Job Ticket: 64357

DST#: 2

Test Start: 2019.06.13 @ 13:06:00

Tool Information

Drill Pipe:	Length: 4392.00 ft	Diameter: 3.80 inches	Volume: 61.61 bbl	Tool Weight: 2500.00 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 62.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4530.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	97.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4504.00	
Shut In Tool	5.00		Fluid	4509.00	
Hydraulic tool	5.00			4514.00	
Jars	5.00			4519.00	
Safety Joint	2.00			4521.00	
Packer	5.00		Inside	4526.00	27.00 Bottom Of Top Packer
Packer	4.00			4530.00	
Stubb	1.00			4531.00	
Recorder	0.00	8522	Inside	4531.00	
Recorder	0.00	8319	Outside	4531.00	
Perforations	33.00			4564.00	
Change Over Sub	1.00			4565.00	
Drill Pipe	31.00			4596.00	
Change Over Sub	1.00			4597.00	
Bullnose	3.00			4600.00	70.00 Bottom Packers & Anchor

Total Tool Length: 97.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Eagle Creek Corporation

17-20s-34w Scott,KS

8100 E 22nd St
Bldg 1500 Ste A
Wichita, KS 62226
ATTN: Wes Hansen

Kristi #1-17

Job Ticket: 64357

DST#: 2

Test Start: 2019.06.13 @ 13:06:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

75000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
350.00	mcw 25m 75w w/oil spots	3.844

Total Length: 350.00 ft Total Volume: 3.844 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

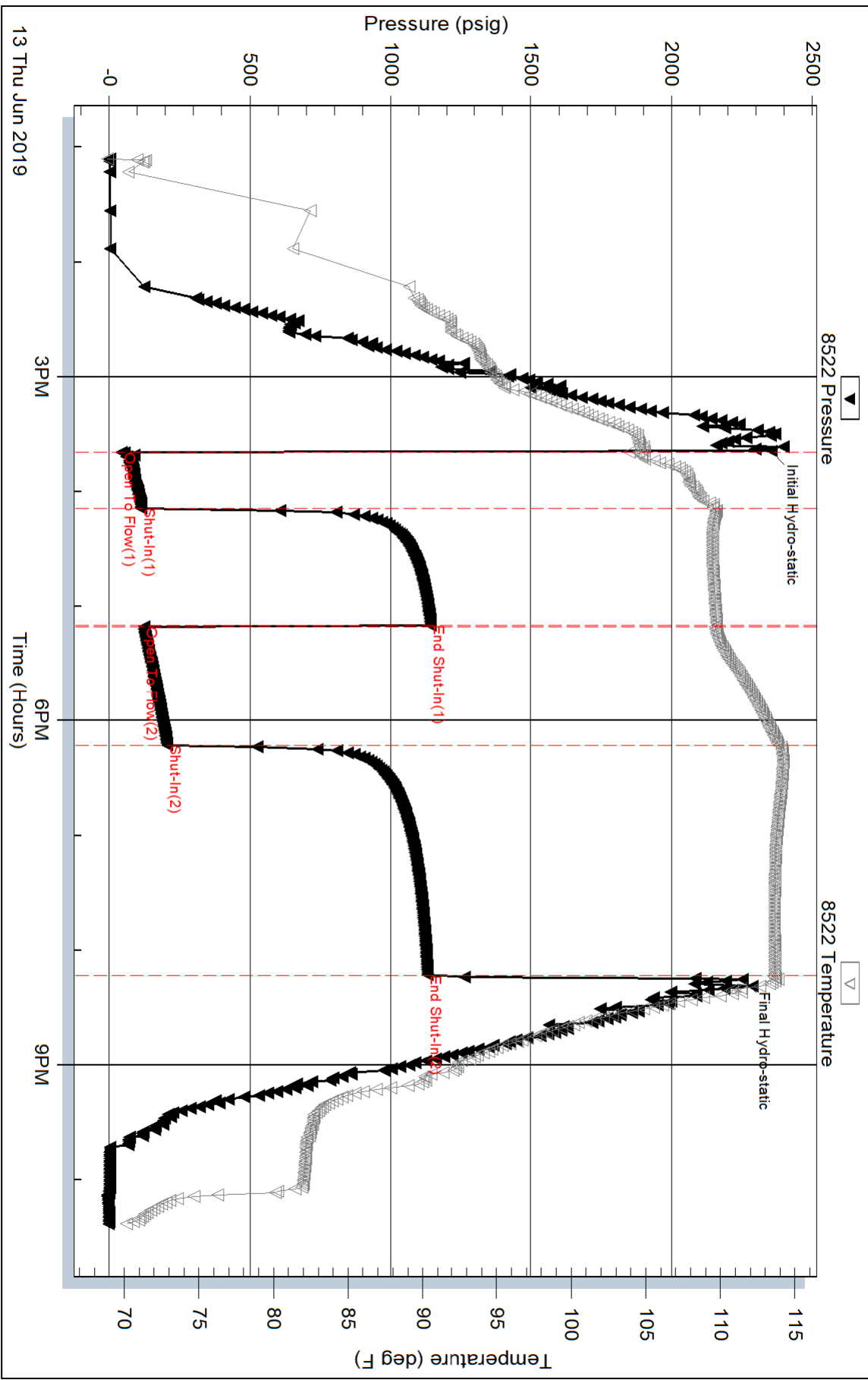
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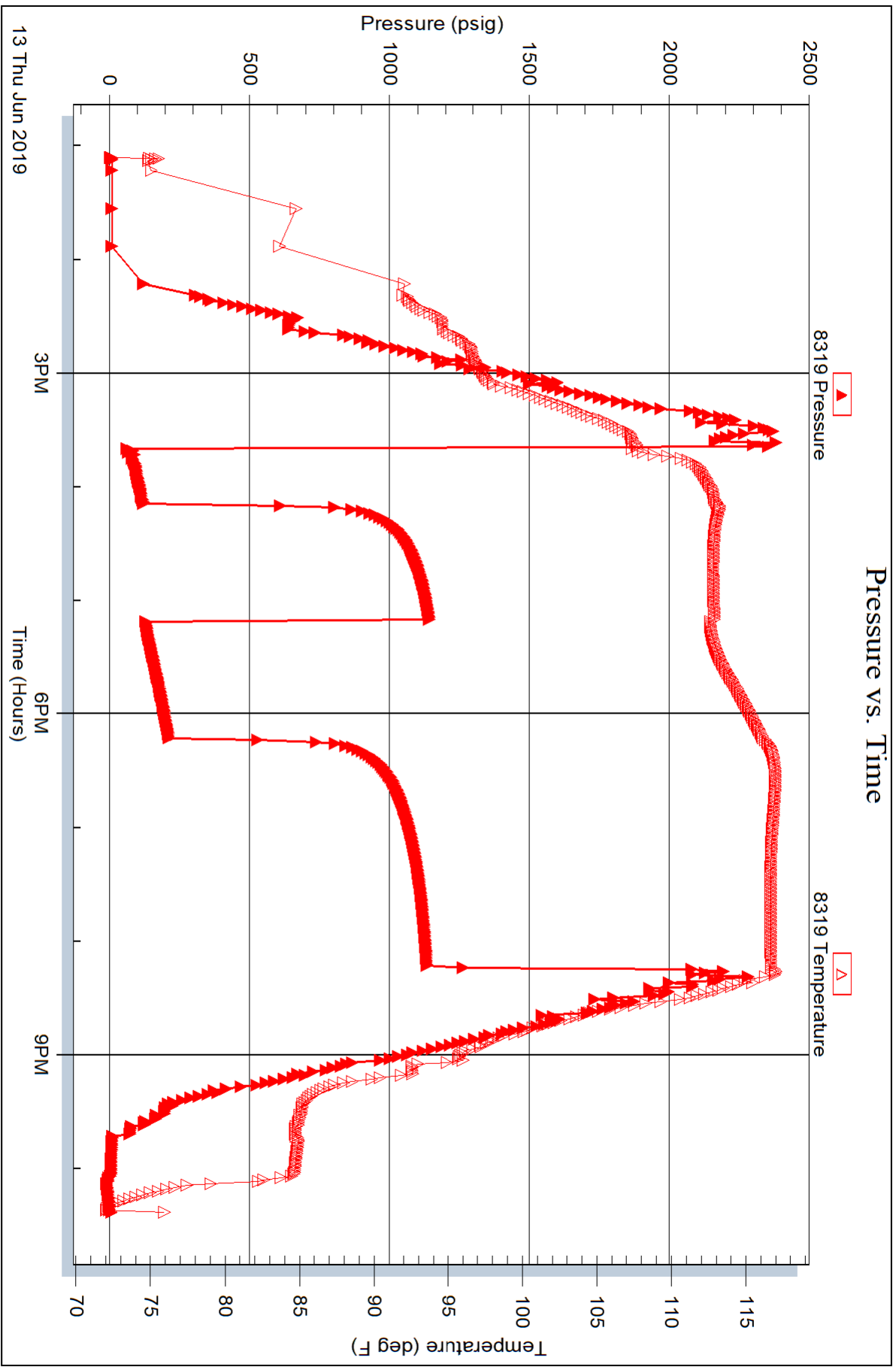
Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .095 @ 68F = 75000ppm

Pressure vs. Time







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64356**

Well Name & No. Kristi #1-17 Test No. 1 Date 06/13/2019
 Company Eagle Creek Corporation Elevation 3107 KB 3102 GL
 Address 8100 E 22nd St Bldg 1500 Ste A Wichita, Ks 67226
 Co. Rep / Geo. Wes Hansen Rig WW #2
 Location: Sec. 17 Twp. 20s Rge. 34th Co. Scott State Ks

Interval Tested 4469 - 4536 Zone Tested Marmaton A-B
 Anchor Length 67' Drill Pipe Run 4331 Mud Wt. 9.1
 Top Packer Depth 4464 Drill Collars Run 117 Vis 50
 Bottom Packer Depth 4469 Wt. Pipe Run Ø WL 9.6
 Total Depth 4536 Chlorides 8500 ppm System LCM 4#

Blow Description IF: < 1/2" blow
ISI: No return.
FL: No blow
FSL: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>			<u>100</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 5 BHT 110 Gravity — API RW — @ — °F Chlorides — ppm
 (A) Initial Hydrostatic 2285 Test 1300 T-On Location 1630 06/13
 (B) First Initial Flow 26 Jars 250 T-Started 1801
 (C) First Final Flow 47 Safety Joint 75 T-Open 2058
 (D) Initial Shut-In 765 Circ Sub N/C T-Pulled 2258
 (E) Second Initial Flow 29 Hourly Standby _____ T-Out 0104 06/13
 (F) Second Final Flow 31 Mileage 48 RT 48 Comments _____
 (G) Final Shut-In 584 Sampler _____
 (H) Final Hydrostatic 2208 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 30 Ruined Packer _____
 Final Flow 30 Extra Copies _____
 Final Shut-In 30 Sub Total 0
 Total 1673
 Sub Total 1673 MP/DST Disc't _____

Approved By _____ Our Representative

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. **64357**

Well Name & No. Kristy *1-17 Test No. 2 Date 06/13/2019
 Company Eagle Creek Corporation Elevation 3107 KB 3102 GL
 Address 8100 E 22nd St Bldg 1500 Ste A Wichita KS 62226
 Co. Rep / Geo. Wes Hansen Rig WW #2
 Location: Sec. 17 Twp. 20s Rge. 34w Co. Scott State Ks

Interval Tested 4530-4600 Zone Tested Marmaton
 Anchor Length 70' Drill Pipe Run 4372 Mud Wt. 9.2
 Top Packer Depth 4525 Drill Collars Run 117 Vis 58
 Bottom Packer Depth 4530 Wt. Pipe Run 0 WL 9.6
 Total Depth 4600 Chlorides 9000 ppm System LCM 2#

Blow Description IF: 10 1/2" blow
ISI: No return.
FF: 16" blow.
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>350</u>	<u>ncw</u>		<u>75</u>	<u>25</u>	
	<u>oil spots</u>				

Rec Total 350 BHT 114 Gravity — API RW -.095 @ 68 °F Chlorides 75000 ppm

(A) Initial Hydrostatic <u>2352</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>1230</u>
(B) First Initial Flow <u>44</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1341</u>
(C) First Final Flow <u>113</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1540</u>
(D) Initial Shut-In <u>1142</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>2010</u>
(E) Second Initial Flow <u>123</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2223</u>
(F) Second Final Flow <u>205</u>	<input checked="" type="checkbox"/> Mileage <u>48RT x2 48+48</u>	Comments <u>Loaded 6/14/19 @ 1430</u>
(G) Final Shut-In <u>1131</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>2252</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>1721</u>
Final Shut-In <u>120</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1721</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.