



DRILL STEM TEST REPORT

Prepared For: **Jaspar Co**

PO Box 1120
Hays, KS 67601

ATTN: Cameron Brin

Cole #1

1-6s-20w Rooks,KS

Start Date: 2019.11.05 @ 14:45:03

End Date: 2019.11.05 @ 23:12:05

Job Ticket #: 66356 DST #: 1

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

Printed: 2019.11.08 @ 08:21:52



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Jaspar Co
 PO Box 1120
 Hays, KS 67601
 ATTN: Cameron Brin

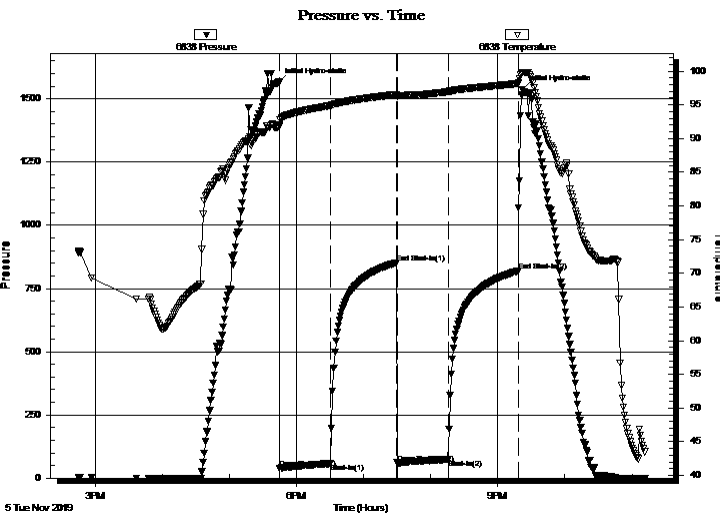
1-6s-20w Rooks,KS
Cole #1
 Job Ticket: 66356 **DST#: 1**
 Test Start: 2019.11.05 @ 14:45:03

GENERAL INFORMATION:

Formation: **Toronto - LKC "D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:44:50
 Time Test Ended: 23:12:05
 Interval: **3249.00 ft (KB) To 3357.00 ft (KB) (TVD)**
 Total Depth: 3357.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Spencer Staab
 Unit No: 84
 Reference Elevations: 2066.00 ft (KB)
 2060.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 6838 **Inside**
 Press@RunDepth: 75.44 psig @ 3254.00 ft (KB) Capacity: psig
 Start Date: 2019.11.05 End Date: 2019.11.05 Last Calib.: 2019.11.05
 Start Time: 14:45:04 End Time: 23:12:05 Time On Btm: 2019.11.05 @ 17:43:50
 Time Off Btm:

TEST COMMENT: 45 IFP-Slid 8' Weak blow built to 1 1/2" died to 1"
 60 ISI-No blow back
 45 FFP- Weak blow built to 1 1/4"
 60 FSI-No blow back



PRESSURE SUMMARY

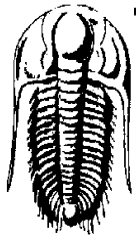
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1565.86	91.76	Initial Hydro-static
1	39.12	91.85	Open To Flow (1)
47	58.38	94.91	Shut-In(1)
106	851.96	96.49	End Shut-In(1)
106	60.01	96.28	Open To Flow (2)
152	75.44	96.94	Shut-In(2)
215	819.35	98.17	End Shut-In(2)
219	1536.39	99.75	Initial Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	VSOCM 1%O 99%M	1.75

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Jaspar Co
PO Box 1120
Hays, KS 67601
ATTN: Cameron Brin

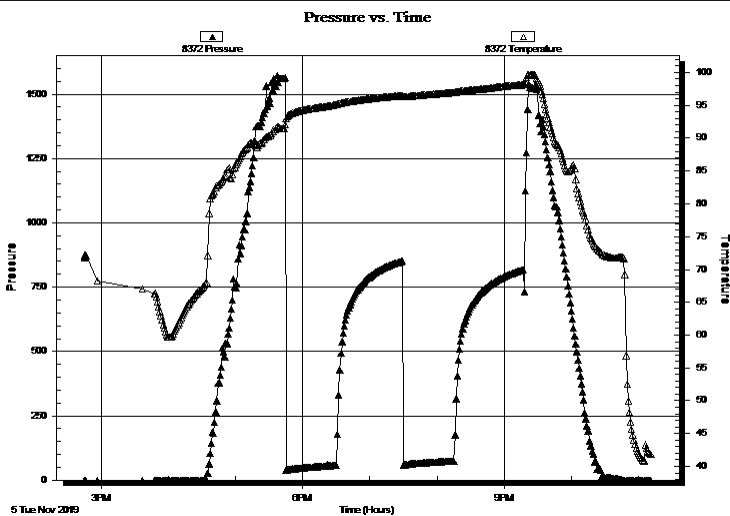
1-6s-20w Rooks,KS
Cole #1
Job Ticket: 66356 **DST#: 1**
Test Start: 2019.11.05 @ 14:45:03

GENERAL INFORMATION:

Formation: **Toronto - LKC "D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:44:50
Time Test Ended: 23:12:05
Interval: **3249.00 ft (KB) To 3357.00 ft (KB) (TVD)**
Total Depth: 3357.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Spencer Staab
Unit No: 84
Reference Elevations: 2066.00 ft (KB)
2060.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8372 Outside
Press@RunDepth: psig @ 3254.00 ft (KB) Capacity: psig
Start Date: 2019.11.05 End Date: 2019.11.05 Last Calib.: 2019.11.05
Start Time: 14:44:50 End Time: 23:11:51 Time On Btm:
Time Off Btm:

TEST COMMENT: 45 IFP-Slid 8" Weak blow built to 1 1/2" died to 1"
60 ISI-No blow back
45 FFP- Weak blow built to 1 1/4"
60 FSI-No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	VSOCM 1%O 99%M	1.75

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Jaspar Co
PO Box 1120
Hays, KS 67601
ATTN: Cameron Brin

1-6s-20w Rooks,KS
Cole #1
Job Ticket: 66356 **DST#: 1**
Test Start: 2019.11.05 @ 14:45:03

Tool Information

Drill Pipe:	Length: 3239.00 ft	Diameter: 3.88 inches	Volume: 47.37 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	115000.0 lb
			<u>Total Volume: 47.37 bbl</u>	Tool Chased	8.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	66000.00 lb
Depth to Top Packer:	3249.00 ft			Final	67000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	108.00 ft				
Tool Length:	135.00 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			3223.00	
Shut In Tool	5.00			3228.00	
Hydraulic tool	5.00			3233.00	
Gap Sub	4.00			3237.00	
Safety Joint	3.00			3240.00	
Packer	5.00			3245.00	27.00 Bottom Of Top Packer
Packer	4.00			3249.00	
Stubb	1.00			3250.00	
Perforations	3.00			3253.00	
Change Over Sub	1.00			3254.00	
Recorder	0.00	6838	Inside	3254.00	
Recorder	0.00	8372	Outside	3254.00	
Blank Spacing	96.00			3350.00	
Change Over Sub	1.00			3351.00	
Perforations	2.00			3353.00	
Bullnose	4.00			3357.00	108.00 Bottom Packers & Anchor
Total Tool Length:	135.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Jaspar Co

1-6s-20w Rooks,KS

PO Box 1120
Hays, KS 67601

Cole #1

Job Ticket: 66356

DST#: 1

ATTN: Cameron Brin

Test Start: 2019.11.05 @ 14:45:03

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	VSOCM 1%O 99%M	1.755

Total Length: 120.00 ft

Total Volume: 1.755 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

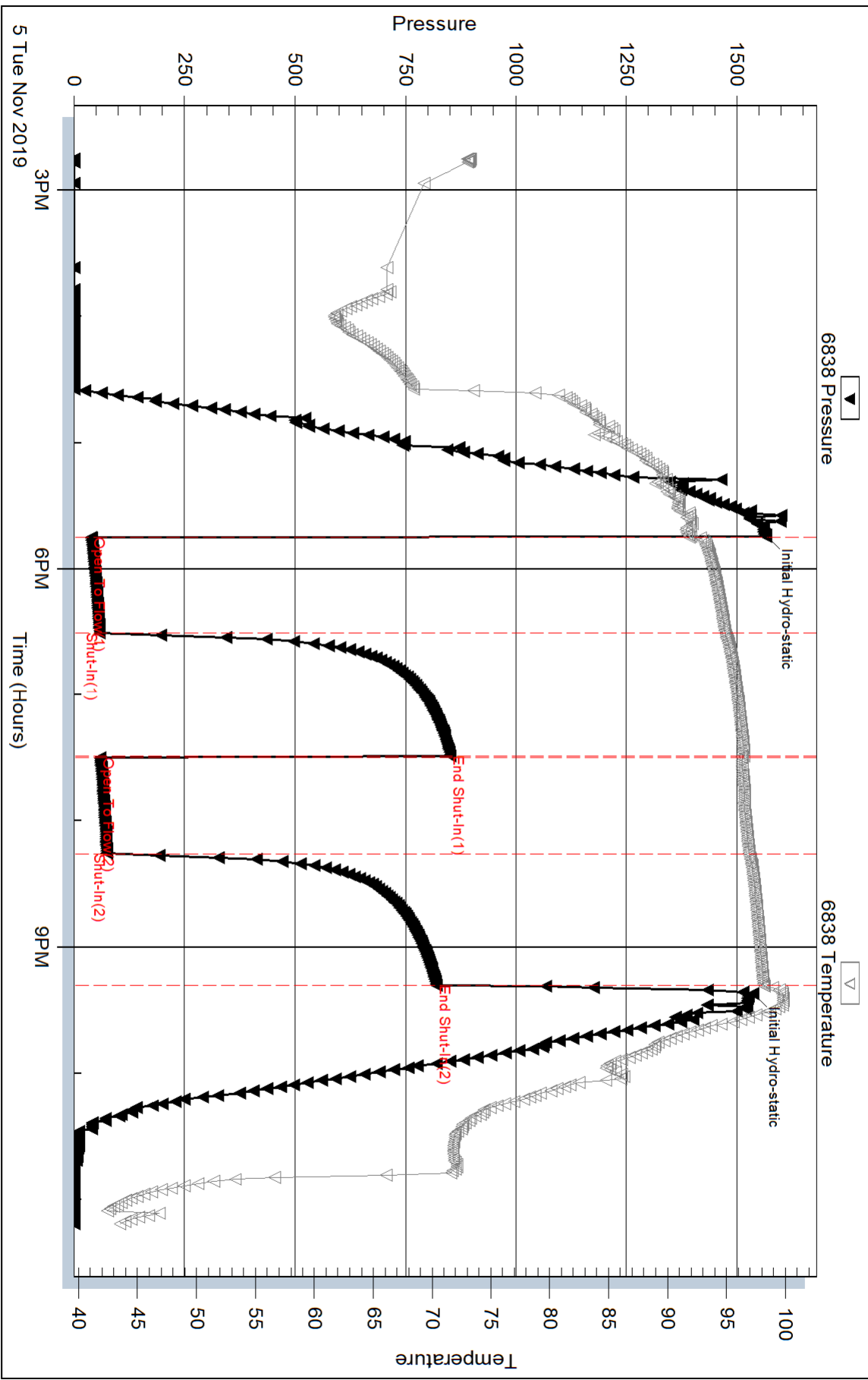
Serial #:

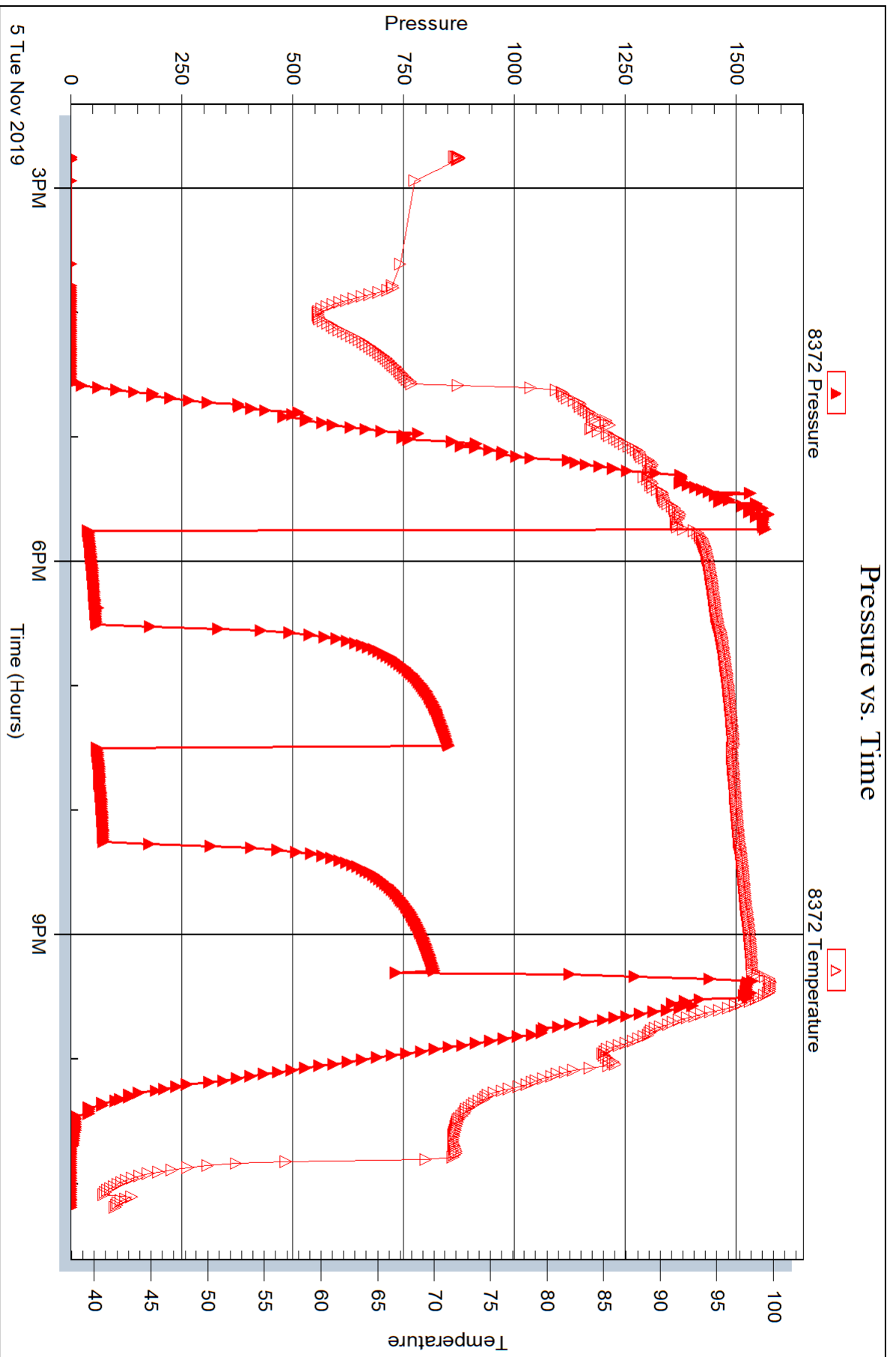
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Jaspar Co**

PO Box 1120
Hays, KS 67601

ATTN: Cameron Brin

Cole #1

1-6s-20w Rooks,KS

Start Date: 2019.11.06 @ 07:15:00

End Date: 2019.11.06 @ 13:02:02

Job Ticket #: 66357 DST #: 2

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

Printed: 2019.11.08 @ 08:17:57

Jaspar Co
1-6s-20w Rooks,KS
Cole #1
DST # 2
LKC-E-F
2019.11.06



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Jaspar Co
 PO Box 1120
 Hays, KS 67601
 ATTN: Cameron Brin

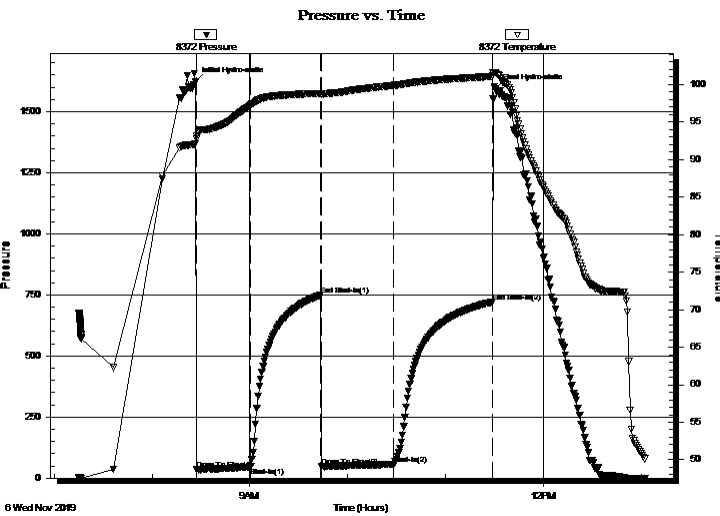
1-6s-20w Rooks,KS
Cole #1
 Job Ticket: 66357 **DST#: 2**
 Test Start: 2019.11.06 @ 07:15:00

GENERAL INFORMATION:

Formation: **LKC 'E-F'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:27:17
 Time Test Ended: 13:02:02
 Interval: **3355.00 ft (KB) To 3378.00 ft (KB) (TVD)**
 Total Depth: 3378.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 2066.00 ft (KB)
 2060.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 8372 Outside
 Press@RunDepth: 57.90 psig @ 3356.00 ft (KB) Capacity: psig
 Start Date: 2019.11.06 End Date: 2019.11.06 Last Calib.: 2019.11.06
 Start Time: 07:15:01 End Time: 13:02:02 Time On Btm: 2019.11.06 @ 08:26:47
 Time Off Btm: 2019.11.06 @ 11:30:17

TEST COMMENT: 30-IF-Weak; Built to 1"
 45-ISI-No Return
 45-FF-Weak; Built to 3"
 60-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1621.63	92.09	Initial Hydro-static
1	34.67	92.66	Open To Flow (1)
34	44.63	97.19	Shut-In(1)
77	748.97	98.77	End Shut-In(1)
77	48.92	98.68	Open To Flow (2)
122	57.90	99.84	Shut-In(2)
182	721.50	101.08	End Shut-In(2)
184	1595.13	101.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	SWCM w / oil spots 4%W 96%M	0.57
50.00	OCM 7%O 93%M	0.71
2.00	Clean Oil	0.03

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Jaspar Co
PO Box 1120
Hays, KS 67601
ATTN: Cameron Brin

1-6s-20w Rooks,KS
Cole #1
Job Ticket: 66357 **DST#: 2**
Test Start: 2019.11.06 @ 07:15:00

GENERAL INFORMATION:

Formation: **LKC 'E-F'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:27:17
Time Test Ended: 13:02:02
Test Type: Conventional Bottom Hole (Initial)
Tester: Spencer J Staab
Unit No: 84
Interval: **3355.00 ft (KB) To 3378.00 ft (KB) (TVD)**
Reference Elevations: 2066.00 ft (KB)
Total Depth: 3378.00 ft (KB) (TVD) 2060.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 6.00 ft

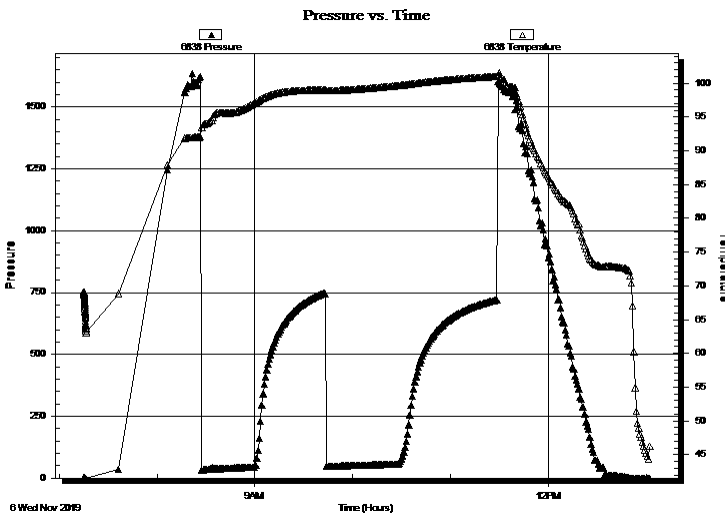
Serial #: 6838

Inside

Press@RunDepth: psig @ 3356.00 ft (KB) Capacity: psig
Start Date: 2019.11.06 End Date: 2019.11.06 Last Calib.: 2019.11.06
Start Time: 07:15:01 End Time: 13:02:02 Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF-Weak; Built to 1"
45-ISI-No Return
45-FF-Weak; Built to 3"
60-FSI-No Return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
40.00	SWCM w / oil spots 4%W 96%M	0.57
50.00	OCM 7%O 93%M	0.71
2.00	Clean Oil	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Jaspar Co
PO Box 1120
Hays, KS 67601
ATTN: Cameron Brin

1-6s-20w Rooks,KS
Cole #1
Job Ticket: 66357 **DST#: 2**
Test Start: 2019.11.06 @ 07:15:00

Tool Information

Drill Pipe:	Length: 3334.00 ft	Diameter: 3.82 inches	Volume: 47.26 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	95000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	67000.00 lb
Depth to Top Packer:	3355.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	23.00 ft				
Tool Length:	51.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3328.00	
Shut In Tool	5.00			3333.00	
Hydraulic tool	5.00			3338.00	
Gap Sub	4.00			3342.00	
Safety Joint	3.00			3345.00	
Packer	5.00			3350.00	28.00 Bottom Of Top Packer
Packer	5.00			3355.00	
Stubb	1.00			3356.00	
Recorder	0.00	6838	Inside	3356.00	
Recorder	0.00	8372	Outside	3356.00	
Perforations	18.00			3374.00	
Bullnose	4.00			3378.00	23.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Jaspar Co

1-6s-20w Rooks,KS

PO Box 1120
Hays, KS 67601

Cole #1

Job Ticket: 66357

DST#: 2

ATTN: Cameron Brin

Test Start: 2019.11.06 @ 07:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
40.00	SWCM w / oil spots 4%W 96%M	0.567
50.00	OCM 7%O 93%M	0.709
2.00	Clean Oil	0.028

Total Length: 92.00 ft

Total Volume: 1.304 bbl

Num Fluid Samples: 0

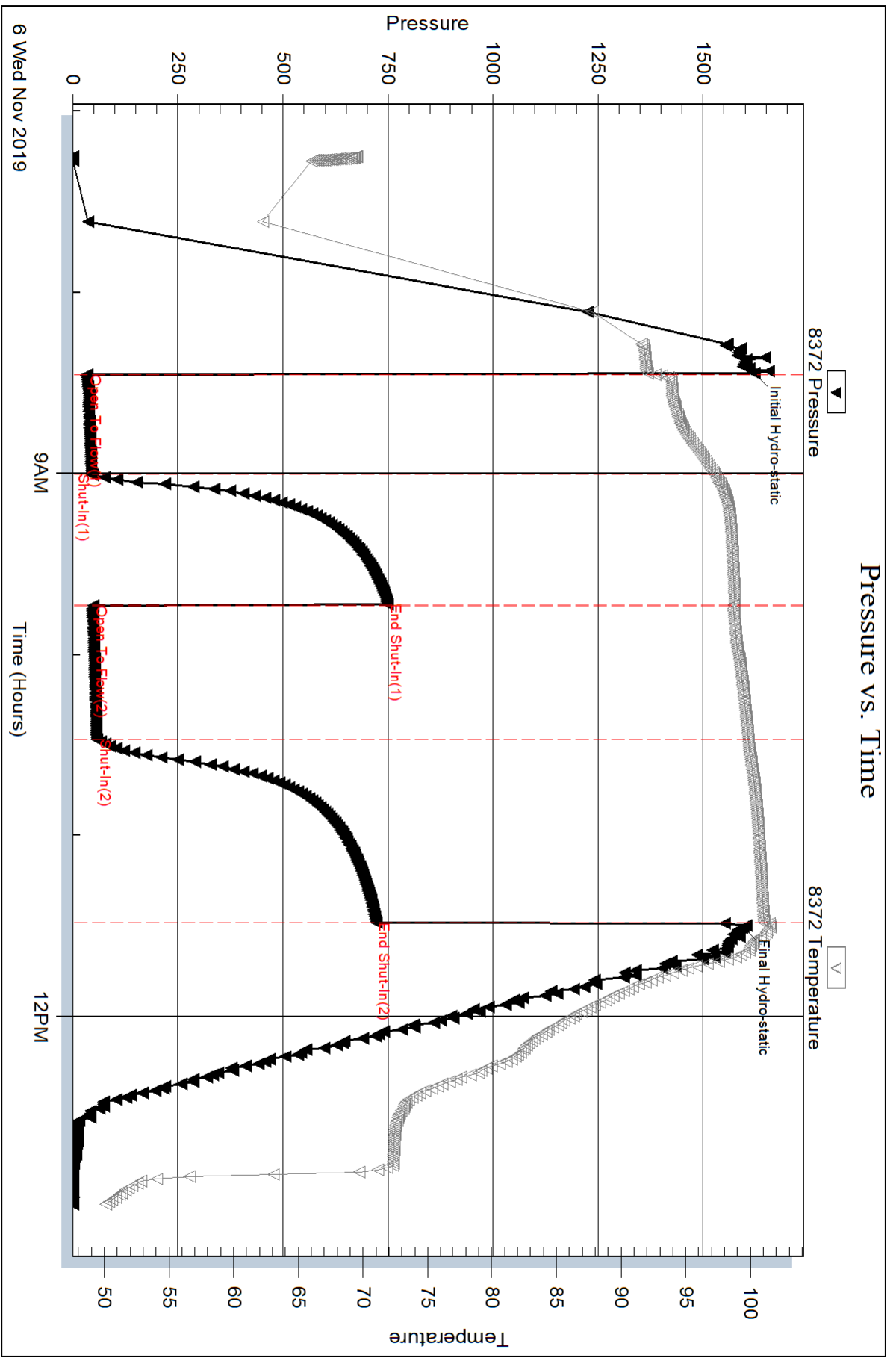
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM

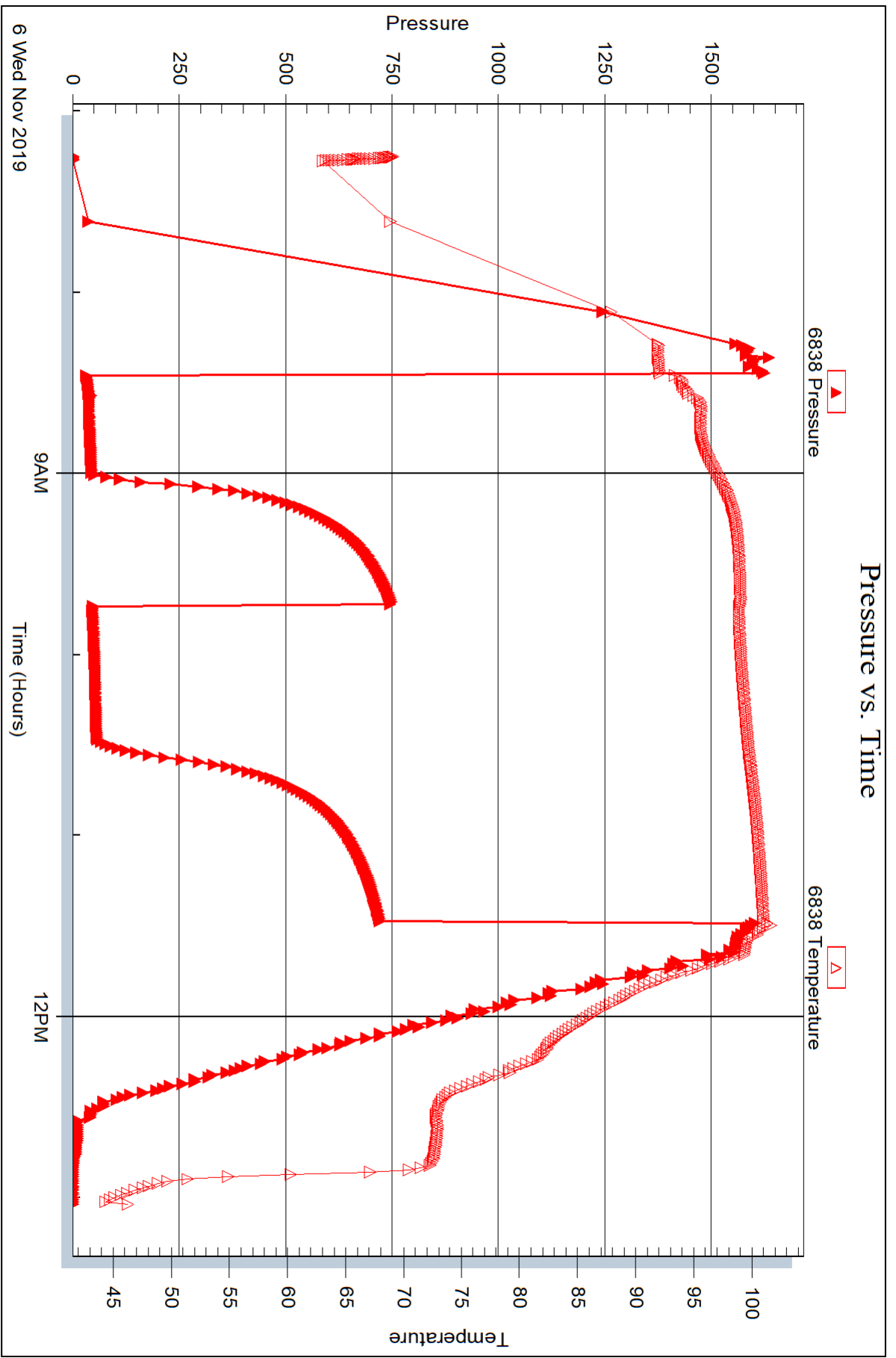


Serial #: 6838

Inside Jasper Co

Cole #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Jaspar Co**

PO Box 1120
Hays, KS 67601

ATTN: Cameron Brin

Cole #1

1-6s-20w Rooks,KS

Start Date: 2019.11.07 @ 02:35:00

End Date: 2019.11.07 @ 08:28:02

Job Ticket #: 66358 DST #: 3

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

Printed: 2019.11.08 @ 08:17:25

Jaspar Co
1-6s-20w Rooks,KS
Cole #1
DST # 3
LKC '1-'
2019.11.07



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Jaspar Co
 PO Box 1120
 Hays, KS 67601
 ATTN: Cameron Brin

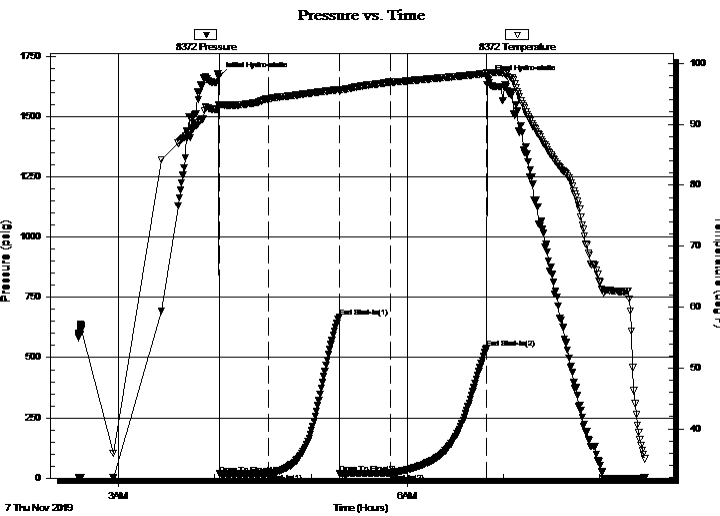
1-6s-20w Rooks,KS
Cole #1
 Job Ticket: 66358 **DST#: 3**
 Test Start: 2019.11.07 @ 02:35:00

GENERAL INFORMATION:

Formation: **LKC 'I-J'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:03:02
 Time Test Ended: 08:28:02
 Interval: **3430.00 ft (KB) To 3467.00 ft (KB) (TVD)**
 Total Depth: 3378.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 2066.00 ft (KB)
 2060.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 8372 Outside
 Press@RunDepth: 20.73 psig @ 3431.00 ft (KB) Capacity: psig
 Start Date: 2019.11.07 End Date: 2019.11.07 Last Calib.: 2019.11.07
 Start Time: 02:35:01 End Time: 08:28:02 Time On Btm: 2019.11.07 @ 04:02:32
 Time Off Btm: 2019.11.07 @ 06:50:17

TEST COMMENT: 30-IF-Weak; Built to 1/4"; Died back to Surface
 45-ISI-No Return
 30-FF-Weak Surface; Died 2 mins in
 60-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1667.15	93.13	Initial Hydro-static
1	16.96	93.17	Open To Flow (1)
31	17.95	94.15	Shut-In(1)
75	668.25	95.68	End Shut-In(1)
76	19.90	95.56	Open To Flow (2)
107	20.73	96.96	Shut-In(2)
167	540.22	98.35	End Shut-In(2)
168	1653.56	98.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
9.00	OCM 10%O 90%M	0.13
1.00	Clean Oil 100%O	0.01

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Jaspar Co
 PO Box 1120
 Hays, KS 67601
 ATTN: Cameron Brin

1-6s-20w Rooks,KS
Cole #1
 Job Ticket: 66358 **DST#: 3**
 Test Start: 2019.11.07 @ 02:35:00

GENERAL INFORMATION:

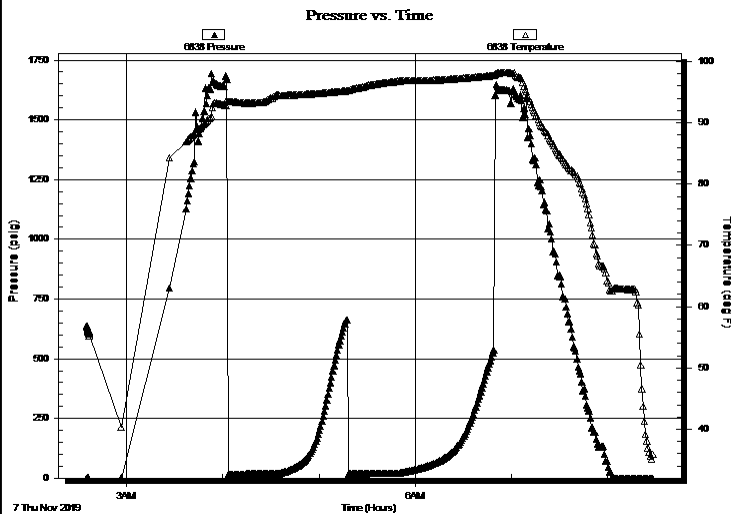
Formation: **LKC 'I-J'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:03:02
 Time Test Ended: 08:28:02
Interval: 3430.00 ft (KB) To 3467.00 ft (KB) (TVD)
 Total Depth: 3378.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches
 Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 2066.00 ft (KB)
 2060.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 6838

Inside

Press@RunDepth: psig @ 3431.00 ft (KB) Capacity: psig
 Start Date: 2019.11.07 End Date: 2019.11.07 Last Calib.: 2019.11.07
 Start Time: 02:35:01 End Time: 08:28:02 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF-Weak; Built to 1/4"; Died back to Surface
 45-ISI-No Return
 30-FF-Weak Surface; Died 2 mins in
 60-FSI-No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
9.00	OCM 10%O 90%M	0.13
1.00	Clean Oil 100%O	0.01

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Jaspar Co
PO Box 1120
Hays, KS 67601
ATTN: Cameron Brin

1-6s-20w Rooks,KS
Cole #1
Job Ticket: 66358 **DST#: 3**
Test Start: 2019.11.07 @ 02:35:00

Tool Information

Drill Pipe:	Length: 3430.00 ft	Diameter: 3.82 inches	Volume: 48.62 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	88000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
			- bbl	String Weight: Initial	68000.00 lb
Drill Pipe Above KB:	28.00 ft			Final	68000.00 lb
Depth to Top Packer:	3430.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	37.00 ft				
Tool Length:	65.00 ft				
Number of Packers:	1	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			3407.00	
Hydraulic tool	5.00			3412.00	
Gap Sub	4.00			3416.00	
Safety Joint	3.00			3419.00	
Change Over Sub	1.00			3420.00	
Packer	5.00			3425.00	28.00 Bottom Of Top Packer
Packer	5.00			3430.00	
Stubb	1.00			3431.00	
Recorder	0.00	6838	Inside	3431.00	
Recorder	0.00	8372	Outside	3431.00	
Perforations	32.00			3463.00	
Bullnose	4.00			3467.00	37.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Jaspar Co

1-6s-20w Rooks,KS

PO Box 1120
Hays, KS 67601

Cole #1

Job Ticket: 66358

DST#: 3

ATTN: Cameron Brin

Test Start: 2019.11.07 @ 02:35:00

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: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
9.00	OCM 10%O 90%M	0.128
1.00	Clean Oil 100%O	0.014

Total Length: 10.00 ft

Total Volume: 0.142 bbl

Num Fluid Samples: 0

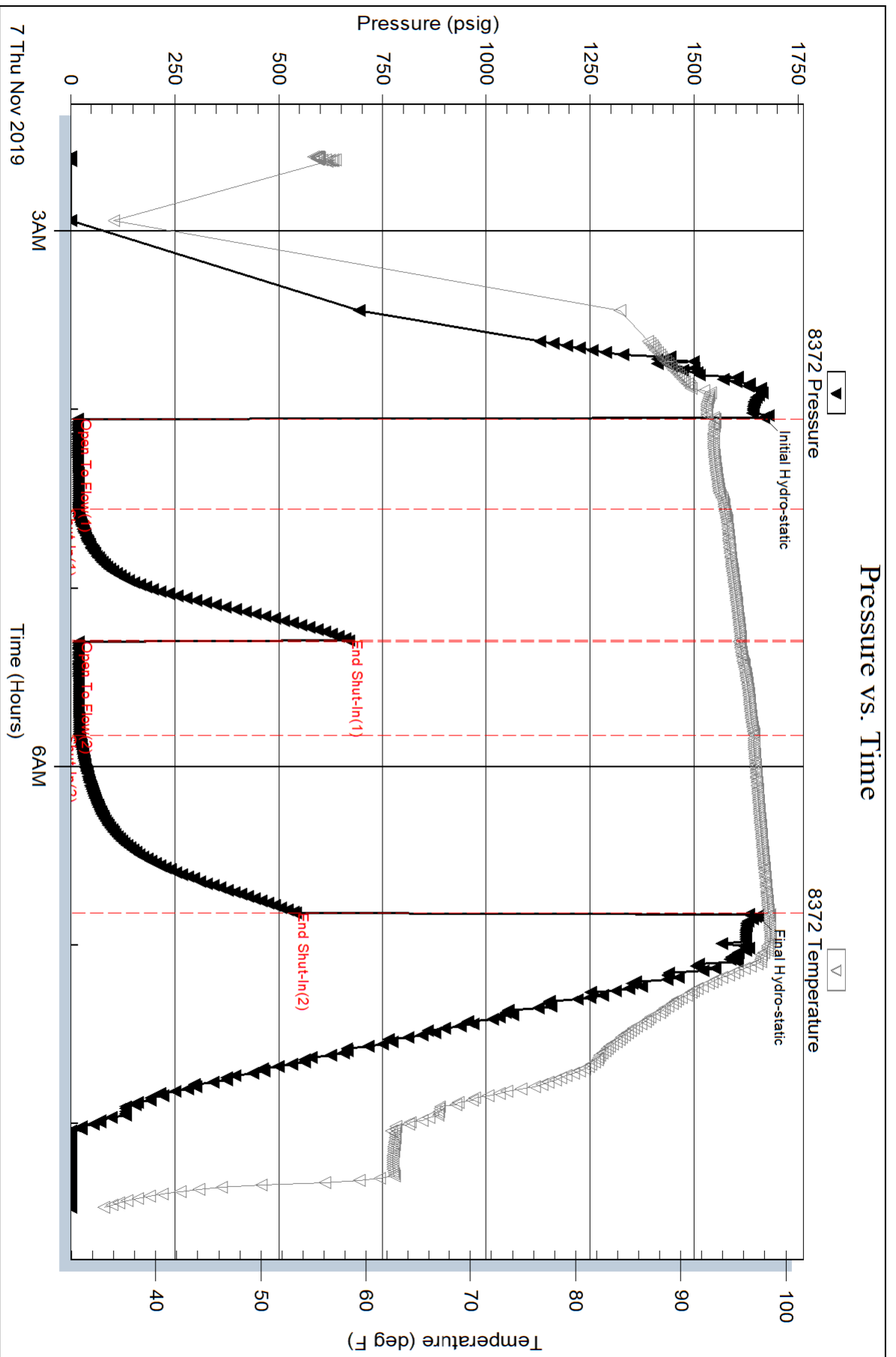
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM



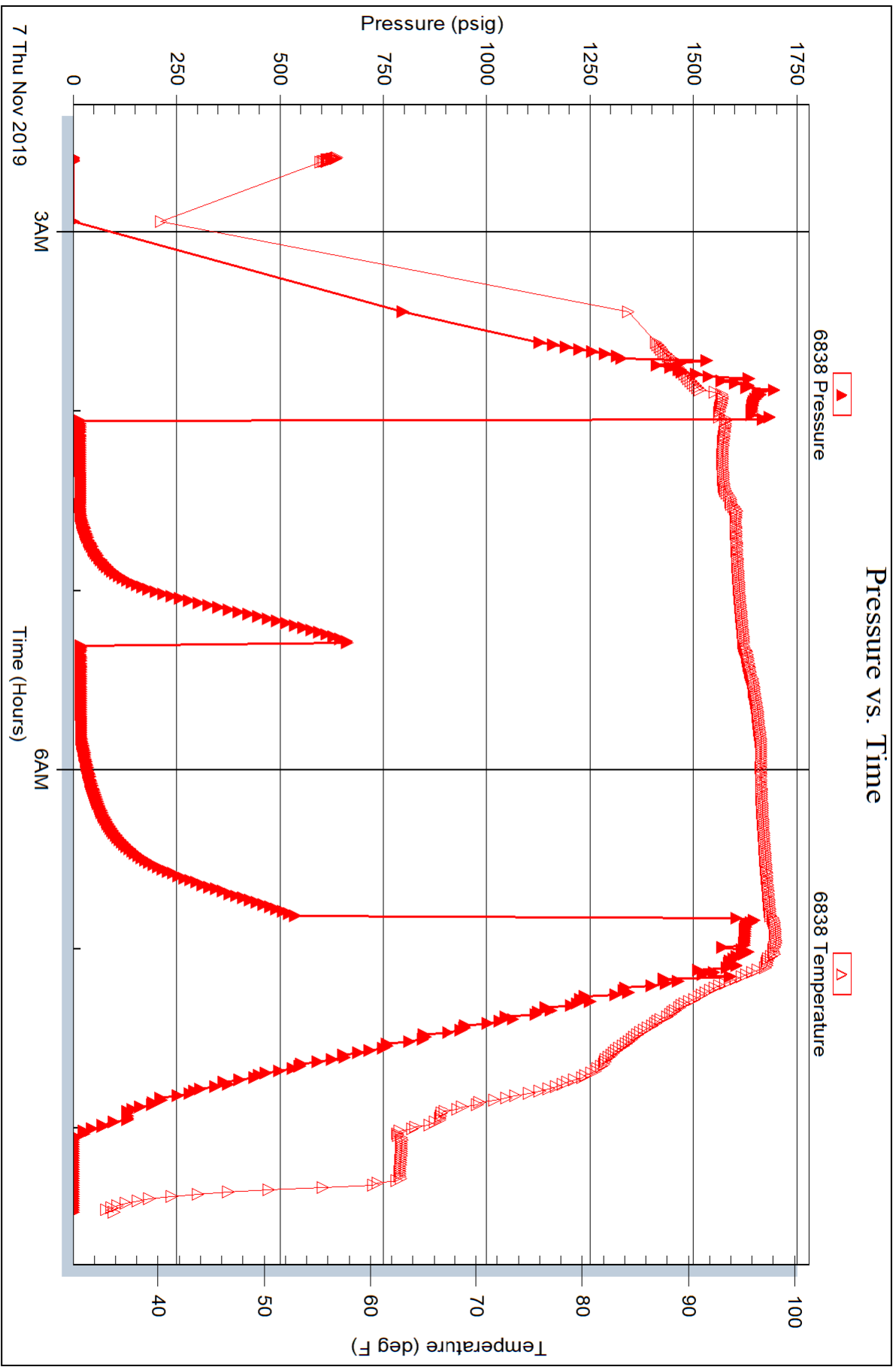
Serial #: 6838

Inside

Jaspar Co

Cole #1

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66356

NO.

Well Name & No. Cole #1 Test No. 1 Date 11/5/2019
 Company Jaspan Co Elevation 2066' KB 2066' GL
 Address PO Box 1120 Hays Ms 67601 +1120
 Co. Rep / Geo. Cameron Brim Rig Flex #1
 Location: Sec. 1 Twp 6S Rge. 20W Co. Rooks State KS

Interval Tested 3249' - 3357' Zone Tested Toronto - JKC 'D'
 Anchor Length 108' Drill Pipe Run 3239' Mud Wt. 8.7
 Top Packer Depth 3244' Drill Collars Run - Vis 52
 Bottom Packer Depth 3249' Wt. Pipe Run - WL 8.0
 Total Depth 3357' Chlorides 1000 ppm System LCM 2#

Blow Description J7 Slid 8ft; Weak Blow Built to 1 1/2"; Dnd back to 1"
J5d - No Return
J7 Weak; Built to 1 1/4"
J7d - No Return

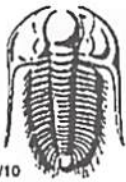
Rec	Feet of	%gas	%oil	%water	%mud
<u>120'</u>	<u>VSOXM</u>	<u>1</u>		<u>99</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 120' BHT 98° Gravity - API RW - @ - °F Chlorides - ppm
 (A) Initial Hydrostatic 1566 Test 1200 T-On Location 13:30
 (B) First Initial Flow 39 Jars _____ T-Started 14:18
 (C) First Final Flow 58 Safety Joint _____ T-Open ~~15:45~~ 17:15
 (D) Initial Shut-In 851 Circ Sub _____ T-Pulled 20:45
 (E) Second Initial Flow 59 Hourly Standby X1 T-Out 22:43
 (F) Second Final Flow 73 Mileage 13427 134 Comments _____
 (G) Final Shut-In 819 Sampler _____
 (H) Final Hydrostatic 1537 Straddle _____ EM Tool 350 first successful
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 45
 Initial Shut-In 60
 Final Flow 45
 Final Shut-In 60
 Sub Total 1334
 Total 1334
 MP/DST Disc't _____

Approved By _____ Our Representative Spencer J. Shook Thanks!
 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.

785-259-0056



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66357

NO.

Well Name & No. Cole #1 Test No. 2 Date 11/6/2019
 Company Jasper Co Elevation 2066 KB 2060 GL
 Address PO Box 1120 Hays KS 67601 + 1120
 Co. Rep / Geo. Cameron Brim Rig Flex #1
 Location: Sec. 1 Twp 6S Rge. 20W Co. Hooks State KS

Interval Tested 3355' - 3378' Zone Tested LHC 'E+7'
 Anchor Length 23' Drill Pipe Run 3334' Mud Wt. 8.8
 Top Packer Depth 3350' Drill Collars Run - Vis 54
 Bottom Packer Depth 3355' Wt. Pipe Run - WL 8.4
 Total Depth 3378' Chlorides 1000 ppm System LCM 2#

Blow Description D7- Weak; Built to 1"
DSD - No Return
F7- Weak; Built to 3"
FSD - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>40'</u>	<u>SWCM w/oil spots</u>		<u>4</u>	<u>96</u>	
<u>50'</u>	<u>OCM</u>		<u>7</u>	<u>93</u>	
<u>2'</u>	<u>Clean Oil</u>	<u>100</u>			

Rec Total 92' BHT 101° Gravity 38 API RW - @ - °F Chlorides - ppm
 (A) Initial Hydrostatic 1621 Test 1200 T-On Location 06:55
 (B) First Initial Flow 34 Jars _____ T-Started 07:15
 (C) First Final Flow 44 Safety Joint _____ T-Open 08:28
 (D) Initial Shut-In 748 Circ Sub _____ T-Pulled 11:28
 (E) Second Initial Flow 48 Hourly Standby _____ T-Out 13:02
 (F) Second Final Flow 57 Mileage 134 Comments _____
 (G) Final Shut-In 721 Sampler _____
 (H) Final Hydrostatic 1595 Straddle _____ EM Tool 350
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Extra Packer _____
 Initial Shut-In 45 Extra Recorder _____
 Final Flow 45 Day Standby _____
 Final Shut-In 60 Accessibility _____
 Sub Total 1334 Sub Total 1684
 MP/DST Disc't _____

Approved By _____ Our Representative Spencer Steal Thanks!
 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.

785-259-0056



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

66358

NO.

Well Name & No. Cole #1 Test No. 3 Date 11/7/2019
 Company Jasper Co Elevation 2066 KB 2066 GL
 Address PO Box 120 Hays Mo 67601+1120
 Co. Rep / Geo. Cameron Brim Rig Flex
 Location: Sec. 1 Twp 6S Rge. 20W Co. Rooks State Mo

Interval Tested 3430'-3467' Zone Tested LHC 'd + j'
 Anchor Length 37' Drill Pipe Run 3430' Mud Wt. 8.8
 Top Packer Depth 3425' Drill Collars Run - Vis 54
 Bottom Packer Depth 3430' Wt. Pipe Run - WL 8.4
 Total Depth 3467' Chlorides 1000 ppm System LCM 27

Blow Description 77- Weak; Built to '4"; Died to Surface
7SD - No Return
77- Weak Surface; Died 2min in
7SD - No Return

Rec	Feet of	%gas	%oil	%water	%mud
9'	OCM	10		90	
1'	Clean Oil	100			

Rec Total 10' BHT 99° Gravity - API RW - @ - °F Chlorides - ppm
 (A) Initial Hydrostatic 1667 Test 1200 T-On Location 02:04
 (B) First Initial Flow 16 Jars - T-Started 02:35
 (C) First Final Flow 17 Safety Joint - T-Open 03:59
 (D) Initial Shut-In 668 Circ Sub - T-Pulled 06:44
 (E) Second Initial Flow 19 Hourly Standby - T-Out 08:25
 (F) Second Final Flow 20 Mileage 134+134 Comments Loaded tools
 (G) Final Shut-In 540 Sampler - @ 2:00 11/8/2019
 (H) Final Hydrostatic 1653 Straddle -

Initial Open 30 EM Tool -
 Initial Shut-In 45 Ruined Shale Packer -
 Final Flow 30 Ruined Packer -
 Final Shut-In 60 Extra Copies -
 Sub Total 0
 Total 1468
 Sub Total 1468

Approved By _____ Our Representative Spencer J. Stead Thanks!
 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.

785-259-0758