



DRILL STEM TEST REPORT

Prepared For: **Prater Oil & Gas**

10356 Bluestem Blvd
Pratt, KS 67124

ATTN: DJ Rebel

Sandy Fruit #1-33

33-27S-16W Kiowa,KS

Start Date: 2018.04.03 @ 04:20:35

End Date: 2018.04.03 @ 12:18:37

Job Ticket #: 59853 DST #: 1

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

Printed: 2018.04.06 @ 09:45:43



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prater Oil & Gas
 10356 Bluestem Blvd
 Pratt, KS 67124
 ATTN: DJ Rebel

33-27S-16W Kiowa, KS

Sandy Fruit #1-33

Job Ticket: 59853 **DST#: 1**
 Test Start: 2018.04.03 @ 04:20:35

GENERAL INFORMATION:

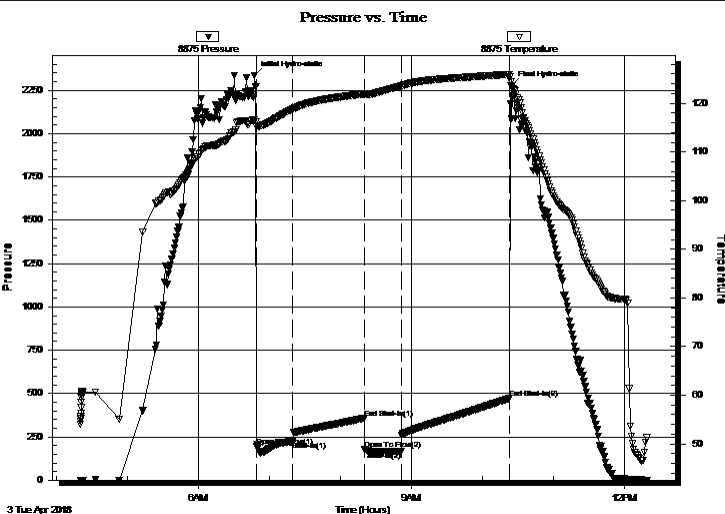
Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:49:22
 Time Test Ended: 12:18:37
 Interval: **4575.00 ft (KB) To 4651.00 ft (KB) (TVD)**
 Total Depth: 4651.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 2130.00 ft (KB)
 2119.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8875

Inside

Press@RunDepth: 165.16 psig @ 4576.00 ft (KB) Capacity: psig
 Start Date: 2018.04.03 End Date: 2018.04.03 Last Calib.: 2018.04.03
 Start Time: 04:20:36 End Time: 12:18:37 Time On Btm: 2018.04.03 @ 06:47:37
 Time Off Btm: 2018.04.03 @ 10:24:07

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds, GTS in 8 minutes, Gauged And Caught Sample
 IS: No Blow Back
 FF: Strong Blow , BOB & GTS Immediate, Gauged Gas
 FS: No Blow Back



PRESSURE SUMMARY

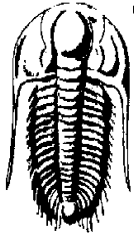
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2336.34	116.63	Initial Hydro-static
2	195.20	115.25	Open To Flow (1)
32	221.93	118.80	Shut-In(1)
93	358.63	121.89	End Shut-In(1)
93	178.52	121.86	Open To Flow (2)
124	165.16	123.57	Shut-In(2)
216	472.43	125.93	End Shut-In(2)
217	2278.77	124.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
145.00	SGCM 5%G 95%M	0.71

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	102.00	161.81
Last Gas Rate	0.75	32.00	499.84
Max. Gas Rate	0.25	153.00	242.72



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prater Oil & Gas
10356 Bluestem Blvd
Pratt, KS 67124
ATTN: DJ Rebel

33-27S-16W Kiowa, KS

Sandy Fruit #1-33

Job Ticket: 59853

DST#: 1

Test Start: 2018.04.03 @ 04:20:35

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:49:22

Time Test Ended: 12:18:37

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Interval: 4575.00 ft (KB) To 4651.00 ft (KB) (TVD)

Total Depth: 4651.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2130.00 ft (KB)

2119.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6749

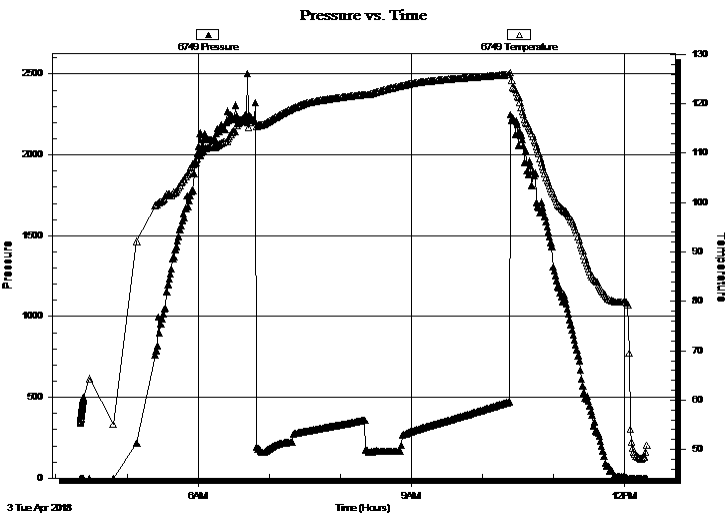
Outside

Press@RunDepth: psig @ 4576.00 ft (KB)

Start Date: 2018.04.03 End Date: 2018.04.03 Capacity: Last Calib.: 2018.04.03

Start Time: 04:20:55 End Time: 12:18:56 Time On Btm: Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds, GTS in 8 minutes, Gauged And Caught Sample
IS: No Blow Back
FF: Strong Blow , BOB & GTS Immediate, Gauged Gas
FS: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
145.00	SGCM 5%G 95%M	0.71

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	102.00	161.81
Last Gas Rate	0.75	32.00	499.84
Max. Gas Rate	0.25	153.00	242.72



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Prater Oil & Gas
10356 Bluestem Blvd
Pratt, KS 67124
ATTN: DJ Rebel

33-27S-16W Kiowa, KS
Sandy Fruit #1-33
Job Ticket: 59853 **DST#: 1**
Test Start: 2018.04.03 @ 04:20:35

Tool Information

Drill Pipe:	Length: 4428.00 ft	Diameter: 3.80 inches	Volume: 62.11 bbl	Tool Weight: 2100.00 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: 152.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 62.86 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4575.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	102.00 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			4554.00	
Hydraulic tool	5.00			4559.00	
Jars	5.00			4564.00	
Safety Joint	2.00			4566.00	
Packer	5.00			4571.00	26.00 Bottom Of Top Packer
Packer	4.00			4575.00	
Stubb	1.00			4576.00	
Recorder	0.00	8875	Inside	4576.00	
Recorder	0.00	6749	Outside	4576.00	
Perforations	2.00			4578.00	
Change Over Sub	1.00			4579.00	
Drill Pipe	63.00			4642.00	
Change Over Sub	1.00			4643.00	
Perforations	5.00			4648.00	
Bullnose	3.00			4651.00	76.00 Bottom Packers & Anchor

Total Tool Length: 102.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Prater Oil & Gas

33-27S-16W Kiowa, KS

10356 Bluestem Blvd
Pratt, KS 67124

Sandy Fruit #1-33

Job Ticket: 59853

DST#: 1

ATTN: DJ Rebel

Test Start: 2018.04.03 @ 04:20:35

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: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3650.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GTS	0.000
145.00	SGCM 5%G 95%M	0.713

Total Length: 145.00 ft Total Volume: 0.713 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Prater Oil & Gas

33-27S-16W Kiowa, KS

10356 Bluestem Blvd
Pratt, KS 67124

Sandy Fruit #1-33

Job Ticket: 59853

DST#: 1

ATTN: DJ Rebel

Test Start: 2018.04.03 @ 04:20:35

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	0.25	102.00	161.81
1	20	0.25	149.00	236.37
1	30	0.25	153.00	242.72
2	10	0.50	64.00	431.72
2	20	0.75	32.00	499.84
2	30	0.75	32.00	499.84

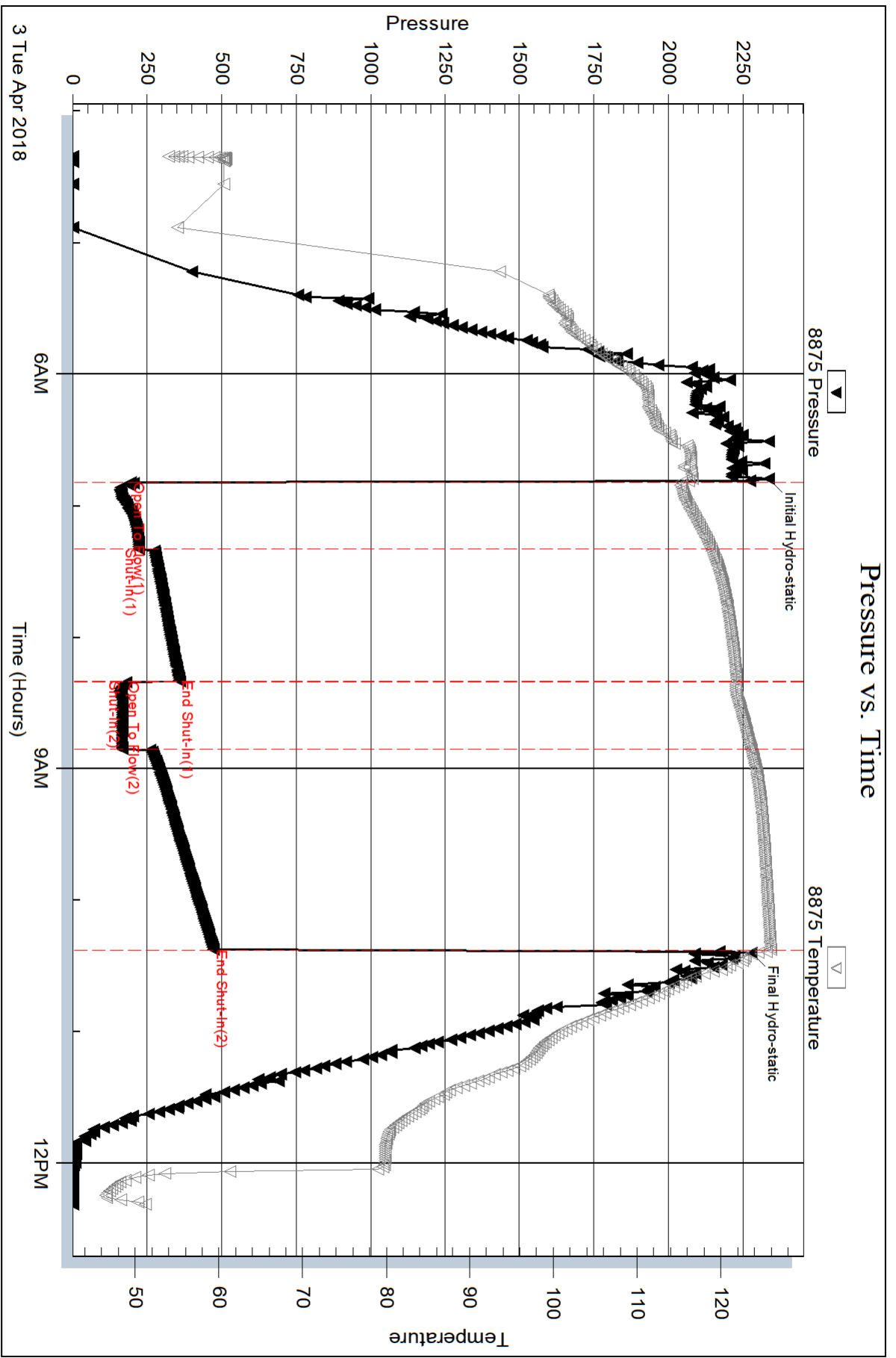
Serial #: 8875

Inside

Prater Oil & Gas

Sandy Fruit #1-33

DST Test Number: 1

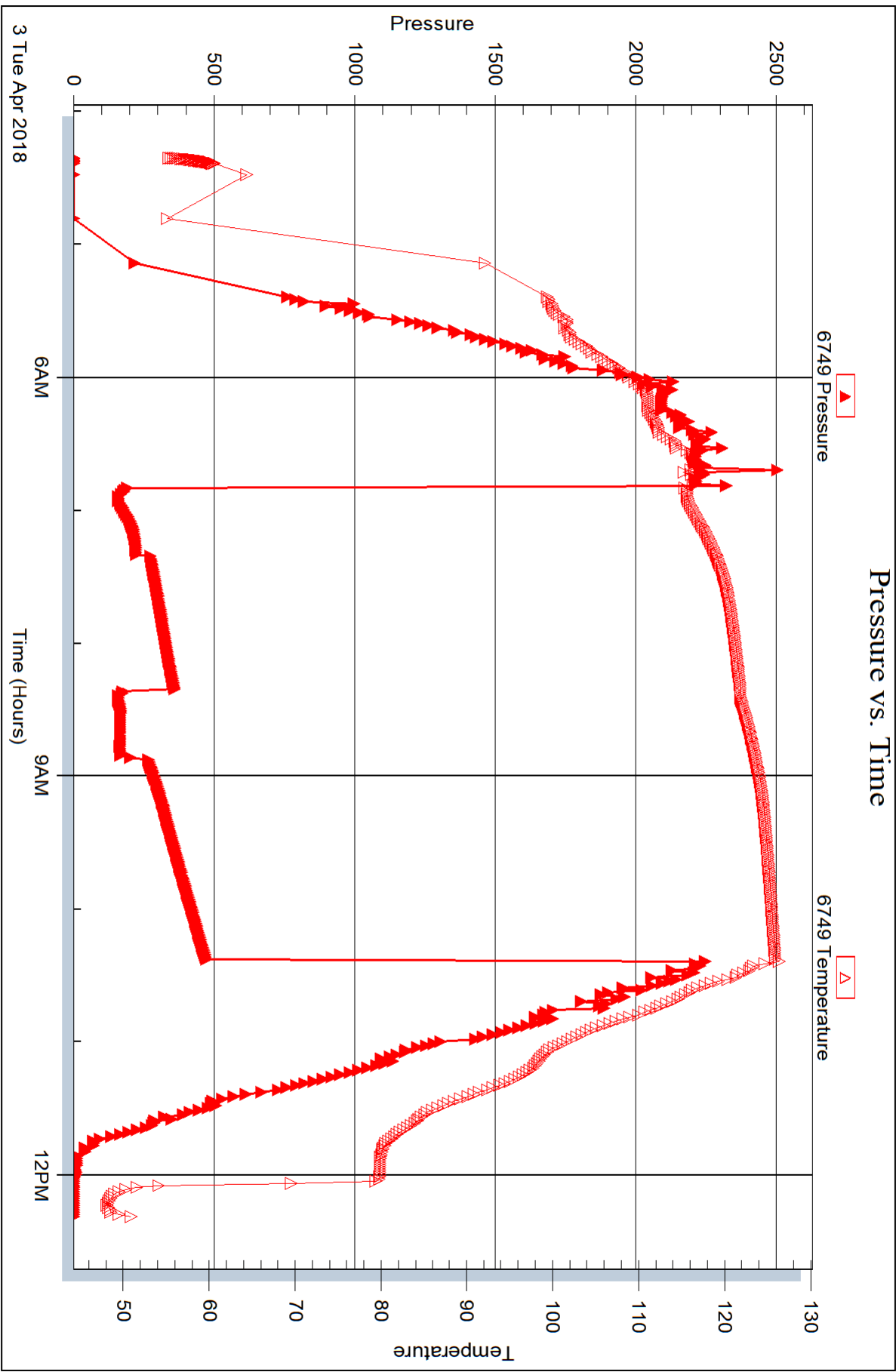


Serial #: 6749

Outside Prater Oil & Gas

Sandy Fruit #1-33

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Prater Oil & Gas**

10356 Bluestem Blvd
Pratt, KS 67124

ATTN: DJ Rebel

Sandy Fruit #1-33

33-27S-16W Kiowa,KS

Start Date: 2018.04.03 @ 18:10:59

End Date: 2018.04.04 @ 03:24:46

Job Ticket #: 59854 DST #: 2

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

Printed: 2018.04.06 @ 09:41:23



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prater Oil & Gas
10356 Bluestem Blvd
Pratt, KS 67124
ATTN: DJ Rebel

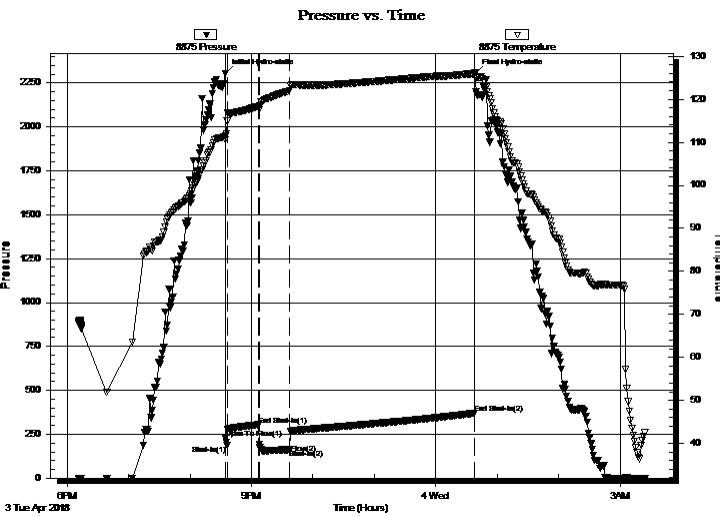
33-27S-16W Kiowa, KS
Sandy Fruit #1-33
Job Ticket: 59854 **DST#: 2**
Test Start: 2018.04.03 @ 18:10:59

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:34:46
Time Test Ended: 03:24:46
Interval: **4575.00 ft (KB) To 4651.00 ft (KB) (TVD)**
Total Depth: 4651.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74
Reference Elevations: 2130.00 ft (KB)
2119.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8875 Inside
Press@RunDepth: 161.19 psig @ 4576.00 ft (KB) Capacity: psig
Start Date: 2018.04.03 End Date: 2018.04.04 Last Calib.: 2018.04.04
Start Time: 18:11:00 End Time: 03:24:46 Time On Btm: 2018.04.03 @ 20:34:16
Time Off Btm: 2018.04.04 @ 00:38:16

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds, Built to 284"
IS: No Blow Back, GTS during Bleed Off
FF: Strong Blow , BOB & GTS Immediate, Gauged W/ Merla
FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2304.41	111.42	Initial Hydro-static
1	226.74	110.60	Open To Flow (1)
2	188.72	114.89	Shut-In(1)
33	303.90	118.33	End Shut-In(1)
34	191.96	117.56	Open To Flow (2)
63	161.19	122.00	Shut-In(2)
244	369.98	125.87	End Shut-In(2)
245	2302.58	126.25	Final Hydro-static

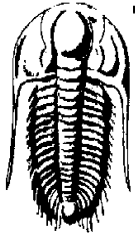
Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
128.00	SGCM 5%G 95%M	0.63

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prater Oil & Gas
 10356 Bluestem Blvd
 Pratt, KS 67124
 ATTN: DJ Rebel

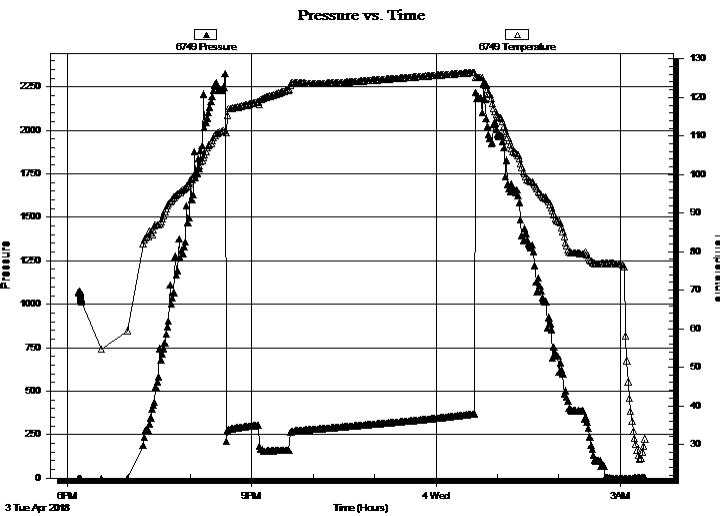
33-27S-16W Kiowa, KS
Sandy Fruit #1-33
 Job Ticket: 59854 **DST#: 2**
 Test Start: 2018.04.03 @ 18:10:59

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:34:46
 Time Test Ended: 03:24:46
 Interval: **4575.00 ft (KB) To 4651.00 ft (KB) (TVD)**
 Total Depth: 4651.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 2130.00 ft (KB)
 2119.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6749 Outside
 Press@RunDepth: psig @ 4576.00 ft (KB) Capacity: psig
 Start Date: 2018.04.03 End Date: 2018.04.04 Last Calib.: 2018.04.04
 Start Time: 18:10:52 End Time: 03:24:38 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds, Built to 284"
 IS: No Blow Back, GTS during Bleed Off
 FF: Strong Blow , BOB & GTS Immediate, Gauged W/ Merla
 FS: No Blow Back



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

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
128.00	SGCM 5%G 95%M	0.63

* Recovery from multiple tests

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Prater Oil & Gas

33-27S-16W Kiowa, KS

10356 Bluestem Blvd
Pratt, KS 67124

Sandy Fruit #1-33

Job Ticket: 59854

DST#: 2

ATTN: DJ Rebel

Test Start: 2018.04.03 @ 18:10:59

Tool Information

Drill Pipe:	Length: 4364.00 ft	Diameter: 3.80 inches	Volume: 61.22 bbl	Tool Weight: 2100.00 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: 214.00 ft	Diameter: 2.25 inches	Volume: 1.05 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 62.27 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4575.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	102.00 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			4554.00	
Hydraulic tool	5.00			4559.00	
Jars	5.00			4564.00	
Safety Joint	2.00			4566.00	
Packer	5.00			4571.00	26.00 Bottom Of Top Packer
Packer	4.00			4575.00	
Stubb	1.00			4576.00	
Recorder	0.00	8875	Inside	4576.00	
Recorder	0.00	6749	Outside	4576.00	
Perforations	2.00			4578.00	
Change Over Sub	1.00			4579.00	
Drill Pipe	63.00			4642.00	
Change Over Sub	1.00			4643.00	
Perforations	5.00			4648.00	
Bullnose	3.00			4651.00	76.00 Bottom Packers & Anchor

Total Tool Length: 102.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prater Oil & Gas

33-27S-16W Kiowa, KS

10356 Bluestem Blvd
Pratt, KS 67124

Sandy Fruit #1-33

Job Ticket: 59854

DST#: 2

ATTN: DJ Rebel

Test Start: 2018.04.03 @ 18:10:59

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: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3650.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GTS	0.000
128.00	SGCM 5%G 95%M	0.629

Total Length: 128.00 ft Total Volume: 0.629 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8875

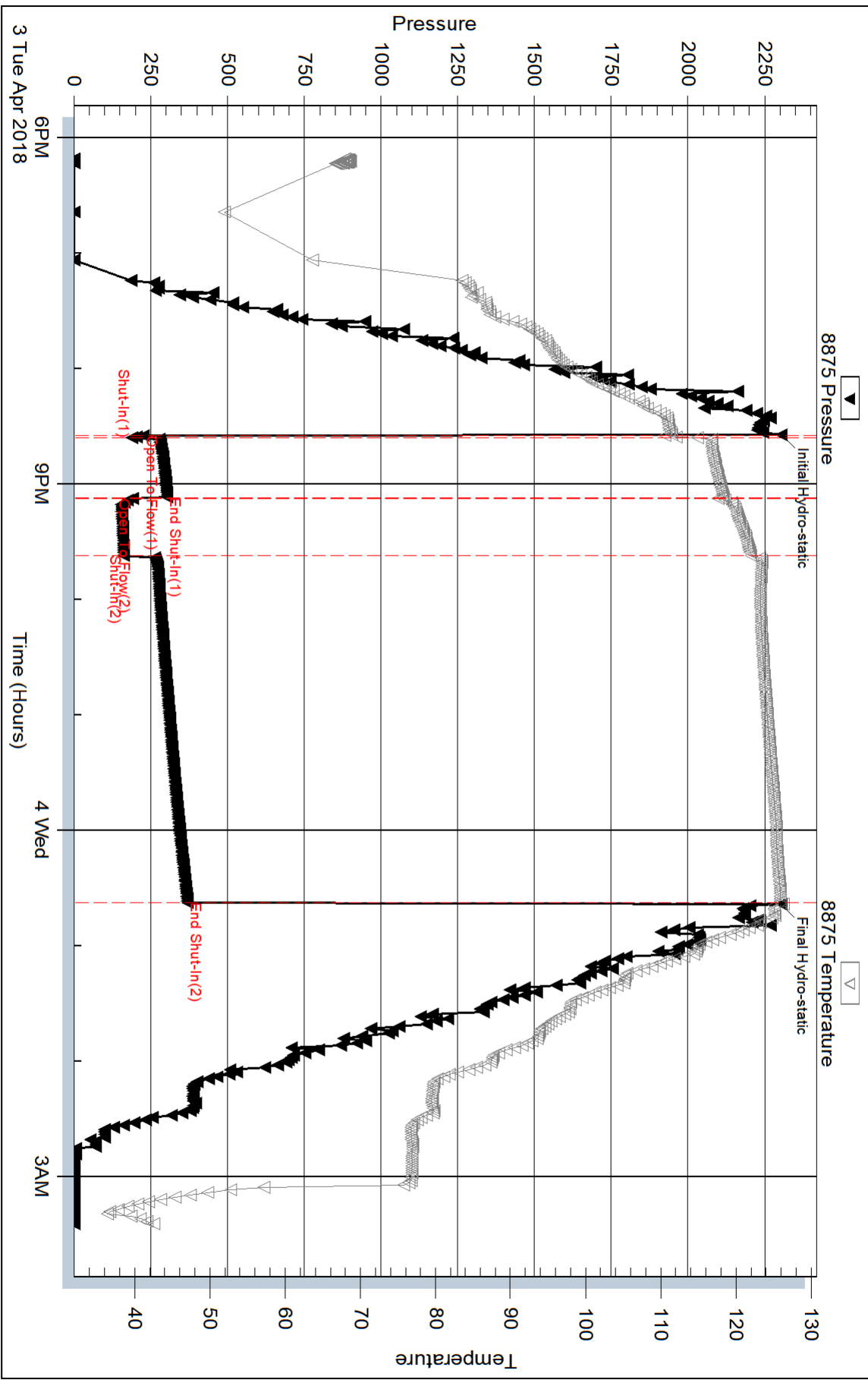
Inside

Prater Oil & Gas

Sandy Fruit #1-33

DST Test Number: 2

Pressure vs. Time

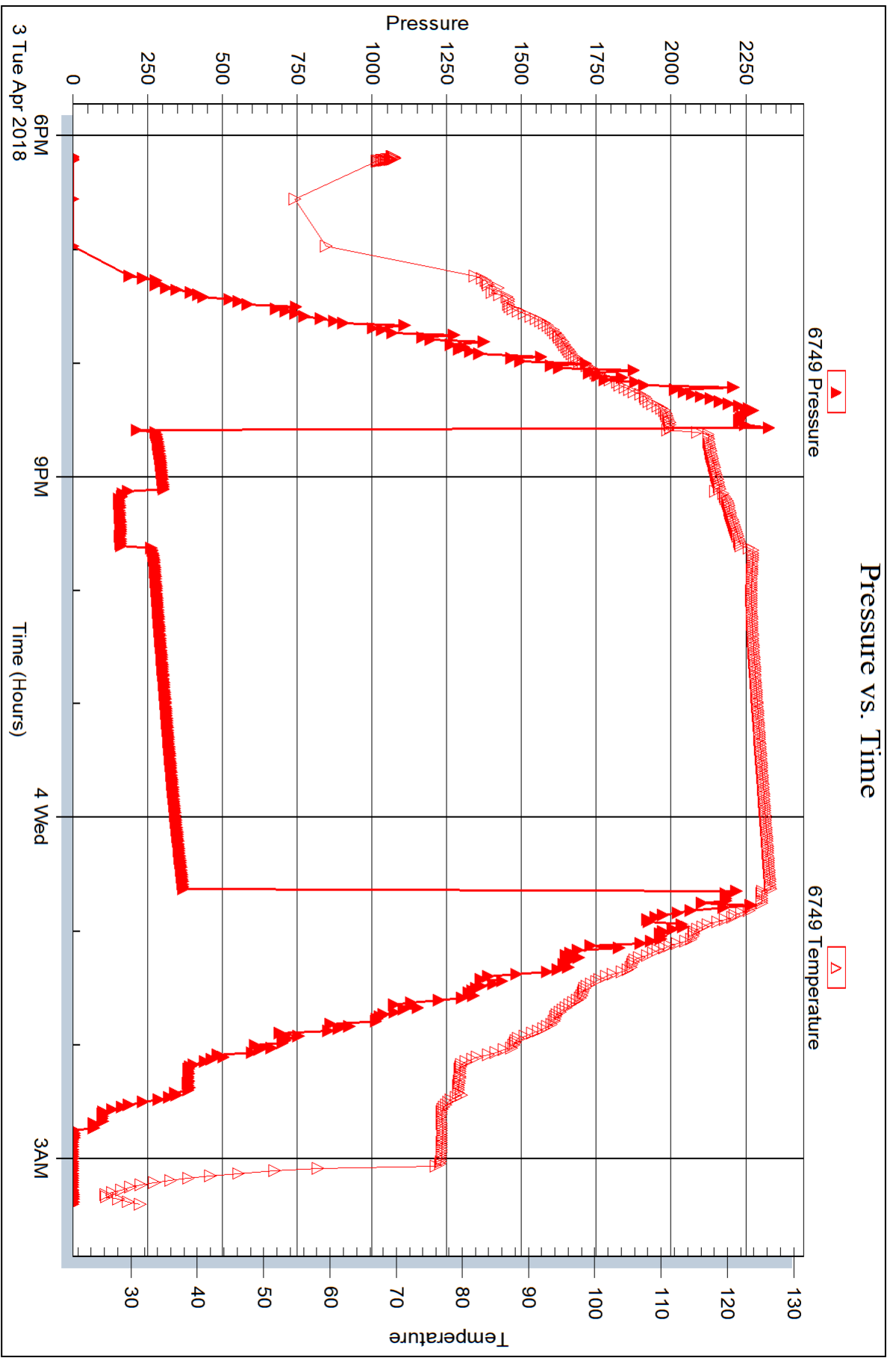


Serial #: 6749

Outside Prater Oil & Gas

Sandy Fruit #1-33

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Prater Oil & Gas**

10356 Bluestem Blvd
Pratt, KS 67124

ATTN: DJ Rebel

Sandy Fruit #1-33

33-27S-16W Kiowa,KS

Start Date: 2018.04.04 @ 13:46:00

End Date: 2018.04.04 @ 21:04:02

Job Ticket #: 59855 DST #: 3

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

Printed: 2018.04.06 @ 09:40:38



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prater Oil & Gas
 10356 Bluestem Blvd
 Pratt, KS 67124
 ATTN: DJ Rebel

33-27S-16W Kiowa, KS
Sandy Fruit #1-33
 Job Ticket: 59855 **DST#: 3**
 Test Start: 2018.04.04 @ 13:46:00

GENERAL INFORMATION:

Formation: **Kinderhook**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 15:37:32
 Tester: Leal Cason
 Time Test Ended: 21:04:02
 Unit No: 74
 Interval: **4660.00 ft (KB) To 4694.00 ft (KB) (TVD)**
 Reference Elevations: 2130.00 ft (KB)
 Total Depth: 4694.00 ft (KB) (TVD)
 2119.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 11.00 ft

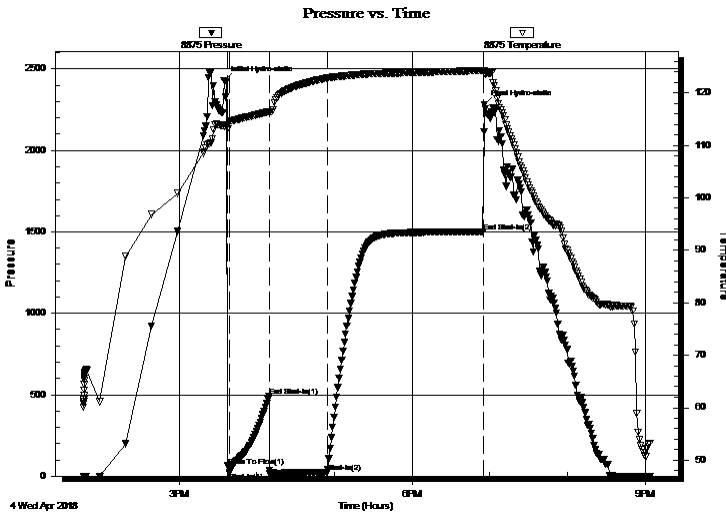
Serial #: 8875

Inside

Press@RunDepth: 24.60 psig @ 4661.00 ft (KB) Capacity: psig
 Start Date: 2018.04.04 End Date: 2018.04.04 Last Calib.: 2018.04.04
 Start Time: 13:46:01 End Time: 21:04:02 Time On Btm: 2018.04.04 @ 15:34:32
 Time Off Btm: 2018.04.04 @ 18:55:47

TEST COMMENT: IF: Fair Blow , Built to 4"
 FSI: No Blow Back
 FF: Strong Blow , BOB in 1 minute, Built to 137"
 FSI: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2429.64	113.61	Initial Hydro-static
3	62.67	113.16	Open To Flow (1)
5	24.77	114.68	Shut-In(1)
35	491.81	116.36	End Shut-In(1)
36	14.46	116.35	Open To Flow (2)
80	24.60	122.84	Shut-In(2)
201	1501.62	124.26	End Shut-In(2)
202	2282.32	123.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	662 GIP	0.00
20.00	VSGCM 2%G 98%M	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prater Oil & Gas
10356 Bluestem Blvd
Pratt, KS 67124
ATTN: DJ Rebel

33-27S-16W Kiowa, KS
Sandy Fruit #1-33
Job Ticket: 59855 **DST#: 3**
Test Start: 2018.04.04 @ 13:46:00

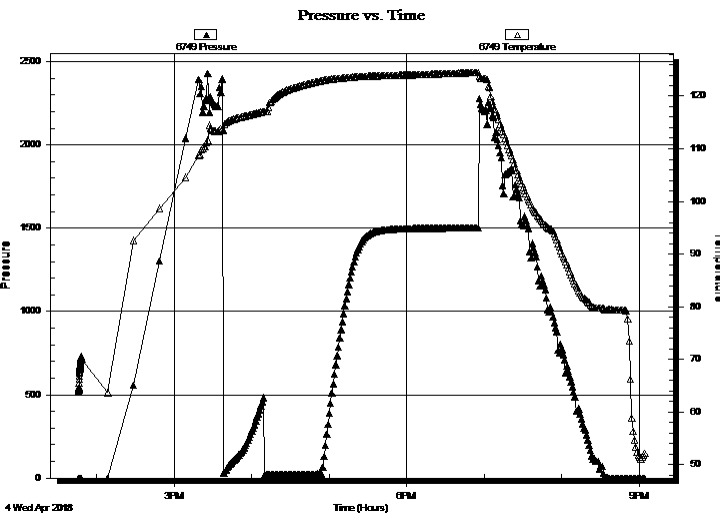
GENERAL INFORMATION:

Formation: **Kinderhook**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 15:37:32 Tester: Leal Cason
 Time Test Ended: 21:04:02 Unit No: 74
 Interval: **4660.00 ft (KB) To 4694.00 ft (KB) (TVD)** Reference Elevations: 2130.00 ft (KB)
 Total Depth: 4694.00 ft (KB) (TVD) 2119.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 6749 Outside

Press@RunDepth: psig @ 4661.00 ft (KB) Capacity: psig
 Start Date: 2018.04.04 End Date: 2018.04.04 Last Calib.: 2018.04.04
 Start Time: 13:46:11 End Time: 21:04:12 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Fair Blow, Built to 4"
 FSI: No Blow Back
 FF: Strong Blow, BOB in 1 minute, Built to 137"
 FSI: No Blow Back



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

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	662 GIP	0.00
20.00	VSGCM 2%G 98%M	0.10

* Recovery from multiple tests

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Prater Oil & Gas

33-27S-16W Kiowa, KS

10356 Bluestem Blvd
Pratt, KS 67124

Sandy Fruit #1-33

Job Ticket: 59855

DST#: 3

ATTN: DJ Rebel

Test Start: 2018.04.04 @ 13:46:00

Tool Information

Drill Pipe:	Length: 4429.00 ft	Diameter: 3.80 inches	Volume: 62.13 bbl	Tool Weight:	2100.00 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: 214.00 ft	Diameter: 2.25 inches	Volume: 1.05 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 63.18 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	72000.00 lb
Depth to Top Packer:	4660.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	34.00 ft				
Tool Length:	60.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

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

Shut In Tool	5.00			4639.00	
Hydraulic tool	5.00			4644.00	
Jars	5.00			4649.00	
Safety Joint	2.00			4651.00	
Packer	5.00			4656.00	26.00 Bottom Of Top Packer
Packer	4.00			4660.00	
Stubb	1.00			4661.00	
Recorder	0.00	8875	Inside	4661.00	
Recorder	0.00	6749	Outside	4661.00	
Perforations	30.00			4691.00	
Bullnose	3.00			4694.00	34.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prater Oil & Gas

33-27S-16W Kiowa, KS

10356 Bluestem Blvd
Pratt, KS 67124

Sandy Fruit #1-33

Job Ticket: 59855

DST#: 3

ATTN: DJ Rebel

Test Start: 2018.04.04 @ 13:46:00

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	662 GIP	0.000
20.00	VSGCM 2%G 98%M	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

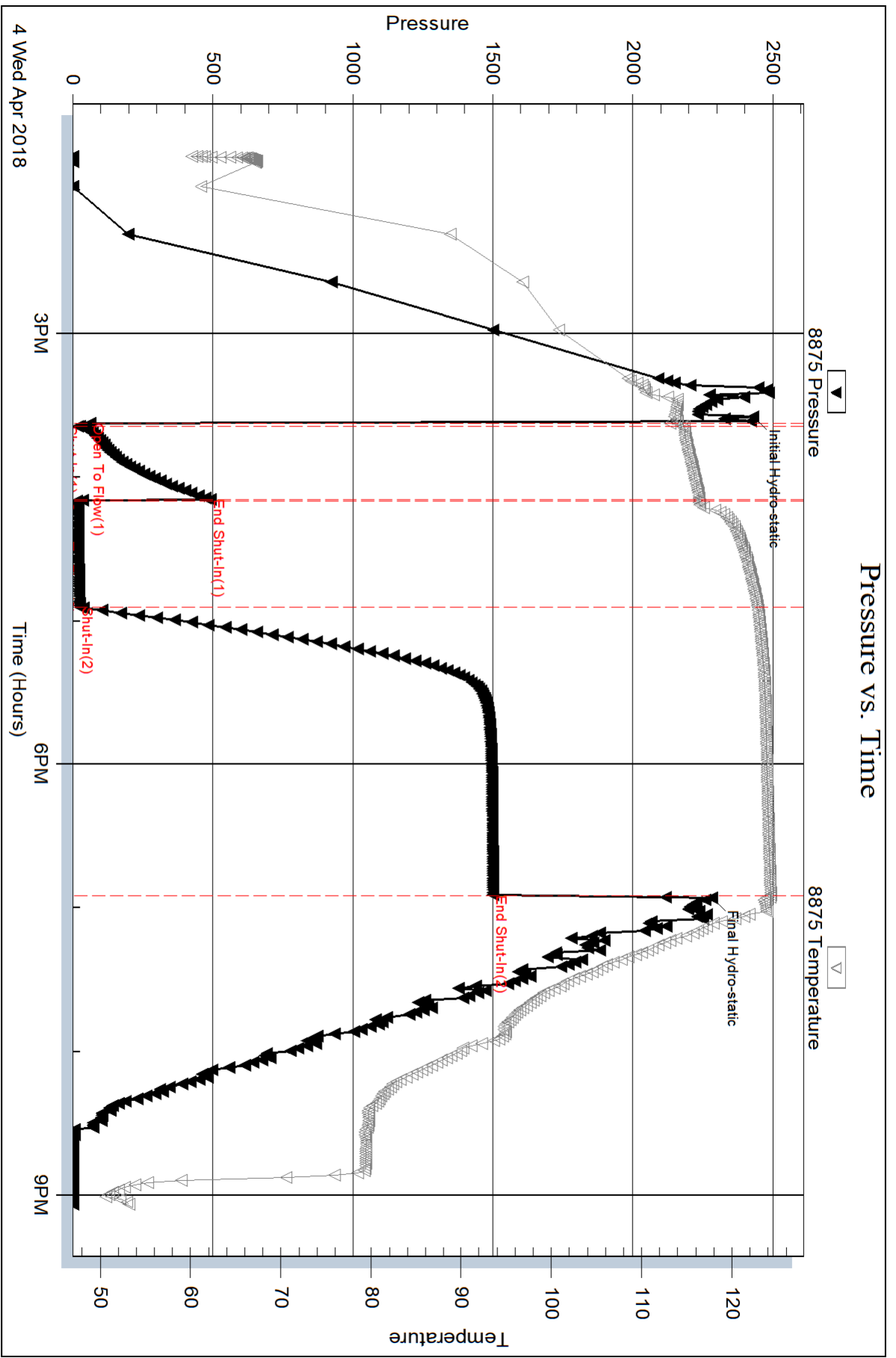
Serial #: 8875

Inside

Prater Oil & Gas

Sandy Fruit #1-33

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 59855

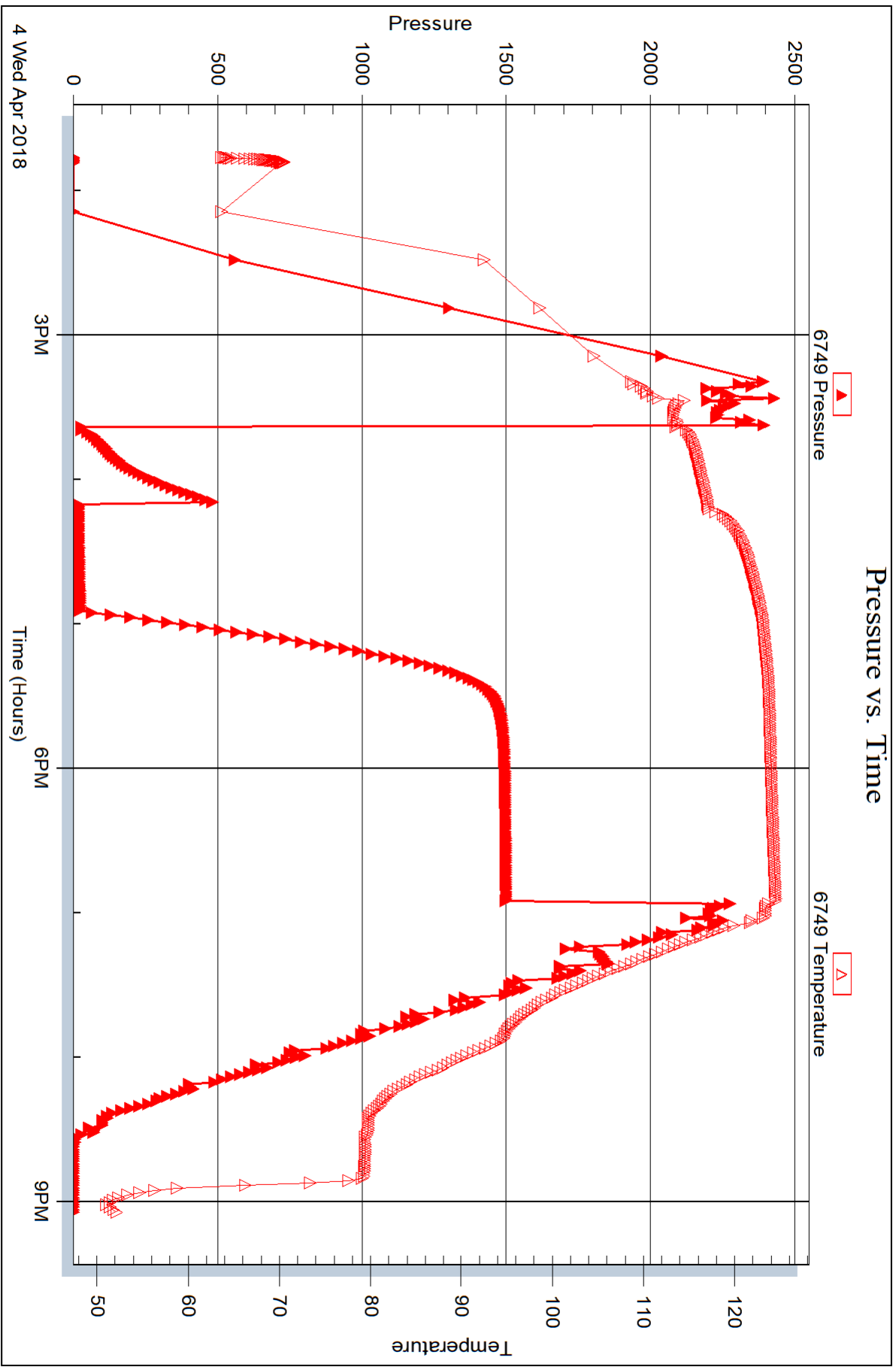
Printed: 2018.04.06 @ 09:40:39

Serial #: 6749

Outside Prater Oil & Gas

Sandy Fruit #1-33

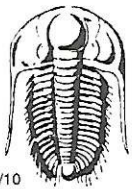
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 59855

Printed: 2018.04.06 @ 09:40:39



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **59853**

Well Name & No. Sandy Fruit 1-33 Test No. 1 Date 04/03/18
 Company Prater Oil & Gas Elevation 2130 KB 2119 GL
 Address 10356 Bluestem Blvd Pratt, KS 67124
 Co. Rep / Geo. DJ Rebel Rig Sterling 4
 Location: Sec. 33 Twp. 27S Rge. 16W Co. Kiowa State KS

Interval Tested 4575 - 4651 Zone Tested Mississippi
 Anchor Length 76 Drill Pipe Run _____ Mud Wt. 9.2
 Top Packer Depth 4570 Drill Collars Run 152 Vis 52
 Bottom Packer Depth 4575 Wt. Pipe Run 0 WL 6.4
 Total Depth 4651 Chlorides 3650 ppm System LCM 2

Blow Description IF: Strong Blow, BOB in 30 seconds, GTS in 8 minutes, Gauged + caught sample
ISI: NO Blow Back
FF: Strong Blow, BOB + GTS Immediate, Gauged Gas
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>4435</u>	<u>GFP</u>				
<u>145</u>	<u>SGCM</u>	<u>5</u>			<u>95%</u>

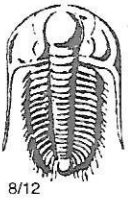
Rec Total 145 BHT 126 Gravity NIC API RW NIC @ NIC °F Chlorides NIC ppm

(A) Initial Hydrostatic <u>2336</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>08:30</u>
(B) First Initial Flow <u>195</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>04:20</u>
(C) First Final Flow <u>222</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>06:49</u>
(D) Initial Shut-In <u>359</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>10:22</u>
(E) Second Initial Flow <u>178</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>12:18</u>
(F) Second Final Flow <u>165</u>	<input checked="" type="checkbox"/> Mileage <u>(50)</u> <u>50</u>	Comments _____
(G) Final Shut-In <u>472</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2279</u>	<input type="checkbox"/> Straddle _____	

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	Total <u>1525</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1525</u>	

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Gas Volume Report

Prater oil + Gas

Sandy Fruit 1-33

1

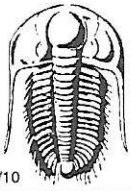
Operator
GTS 8 minutes

Well Name and No.

DST No.

Min.	ft. of Water PSI	Orifice Size	MCF/D	Min.	ft. of Water PSI	Orifice Size	1/2 CF/D
10	102	1/4	161.813	10	64	1/2	431.724
20	149	1/4	236.374	20	32	3/4	499.835
30	153	1/4	242.720	30	32	3/4	499.835

Remarks:



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59854

Well Name & No. Sandy Fruit 1-33 Test No. 2 Date 04/03/18
 Company Prater Oil & Gas Elevation 2130 KB 2119 GL
 Address 10356 Blue Stem Blvd Pratt, KS 67124
 Co. Rep / Geo. DJ Rebel Rig Sterling 4
 Location: Sec. 33 Twp. 27 S Rge. 16 W Co. Kiowa State KS

Interval Tested 4575 - 4651 Zone Tested Mississippi
 Anchor Length 76 Drill Pipe Run 4364 Mud Wt. 9.2
 Top Packer Depth 4570 Drill Collars Run 214 Vis 5.2
 Bottom Packer Depth 4575 Wt. Pipe Run 0 WL 6.4
 Total Depth 4651 Chlorides 3650 ppm System LCM 2

Blow Description IF: Strong Blow, BOB in ~~30 seconds~~, Built to 28 inches
ISF: NO Blow Back, GTS during Bleed off
FF: Strong Blow, BOB & GTS Immediate, Gauged w/merla
FSF: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>4450</u>	<u>GFP</u>				
<u>128</u>	<u>GCM</u>	<u>5</u>			<u>95</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

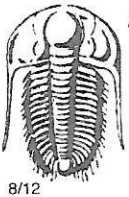
Rec Total 128 BHT 126 Gravity NIC API RW NIC @ NIC F Chlorides NIC ppm

(A) Initial Hydrostatic 2304 Test 1150 T-On Location 17:45
 (B) First Initial Flow 227 Jars 250 T-Started 18:10
 (C) First Final Flow 189 Safety Joint 75 T-Open 20:34
 (D) Initial Shut-In 304 Circ Sub _____ T-Pulled 00:37
 (E) Second Initial Flow 192 Hourly Standby _____ T-Out 03:24
 (F) Second Final Flow 161 Mileage (50) 50 Comments _____
 (G) Final Shut-In 370 Sampler _____
 (H) Final Hydrostatic 2302 Straddle _____
 Ruined Shale Packer _____
 Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 1
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 180
 Sub Total 1525
 Total 1525
 MP/DST Disc't _____

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Gas Volume Report

Prater Oil & Gas

Sandy Fruit 1-33

2

Operator

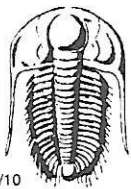
GTS During ISE

Well Name and No.

DST No.

Min.	Ins. of Water PSIG	Orifice Size	CF/D	Min.	Ins. of Water PSIG	Orifice Size	M CF/D
				10	31	3/4	581.2
				20	36	3/4	644.9
				30	37	3/4	657.6

Remarks:



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59855

Well Name & No. Sandy Fruit 1-33 Test No. 3 Date 04/04/18
 Company Prater Oil & Gas Elevation 2130 KB 2119 GL
 Address 10356 Bluestem Blvd Pratt, KS 67124
 Co. Rep / Geo. DJ Rebel Rig Sterling 4
 Location: Sec. 33 Twp. 27S Rge. 16W Co. kiowa State KS

Interval Tested 4660 - 4694 Zone Tested Kinderhook
 Anchor Length 34 Drill Pipe Run 4429 Mud Wt. 9.2
 Top Packer Depth 4655 Drill Collars Run 214 Vis 59
 Bottom Packer Depth 4660 Wt. Pipe Run 0 WL 9.6
 Total Depth 4694 Chlorides 7000 ppm System LCM 2

Blow Description IF: Fair Blow, Built to 4 1/2 inches
FSI: NO Blow Back
FF: strong Blow, BOB in 1 minute, Built to 137 inches
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>662</u>	<u>Feet of GIP</u>				
<u>20</u>	<u>Feet of VSGCM</u>				

Rec Total 20 BHT 124 Gravity N/C API RW N/C @ N/C °F Chlorides N/C ppm

(A) Initial Hydrostatic <u>2430</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>13:15</u>
(B) First Initial Flow <u>63</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>13:46</u>
(C) First Final Flow <u>25</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>15:37</u>
(D) Initial Shut-In <u>492</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>18:54</u>
(E) Second Initial Flow <u>14</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>21:04</u>
(F) Second Final Flow <u>24</u>	<input checked="" type="checkbox"/> Mileage <u>(507)</u> 100	Comments <u>loaded tools 4/5 15:15</u>
(G) Final Shut-In <u>1501</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2282</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby	Total <u>1575</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1575</u>	

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