



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

K3 OIL & Gas Operating Co.

24 15s 55w Lincol, Co

24900 Pitkin Rd Ste 305
The Woodlands, Tx 77386

Clark 13-24

Job Ticket: 64689

DST#: 2

ATTN: Randy Sae

Test Start: 2017.10.19 @ 06:46:00

GENERAL INFORMATION:

Formation: **Spurgin**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:56:15

Time Test Ended: 18:33:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 7290.00 ft (KB) To 7363.00 ft (KB) (TVD)

Total Depth: 7363.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 5080.00 ft (KB)

5062.00 ft (CF)

KB to GR/CF: 18.00 ft

Serial #: 8365 Inside

Press@RunDepth: 135.93 psig @ 7291.00 ft (KB)

Start Date: 2017.10.19

End Date:

2017.10.19

Start Time: 06:46:05

End Time:

18:33:30

Capacity: 8000.00 psig

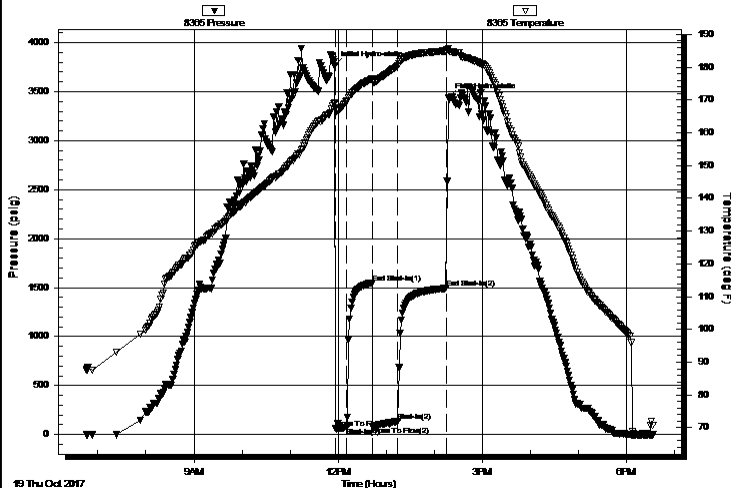
Last Calib.: 2017.10.19

Time On Btm: 2017.10.19 @ 11:55:45

Time Off Btm: 2017.10.19 @ 14:17:15

TEST COMMENT: IF: 2 1/5" blow .
IS: No return.
FF: 2 1/2" blow .
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3767.36	169.12	Initial Hydro-static
1	67.21	167.53	Open To Flow (1)
15	76.18	169.59	Shut-In(1)
47	1547.64	176.45	End Shut-In(1)
47	82.81	175.75	Open To Flow (2)
79	135.93	180.44	Shut-In(2)
139	1492.30	184.95	End Shut-In(2)
142	3438.51	185.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
220.00	mcw 50m 50w	1.08

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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5062.00 ft (CF)

KB to GR/CF: 18.00 ft

Serial #: 8845 Outside

Press@RunDepth: psig @ 7291.00 ft (KB)

Start Date: 2017.10.19

End Date:

2017.10.19

Start Time: 06:46:05

End Time:

18:33:45

Capacity: 8000.00 psig

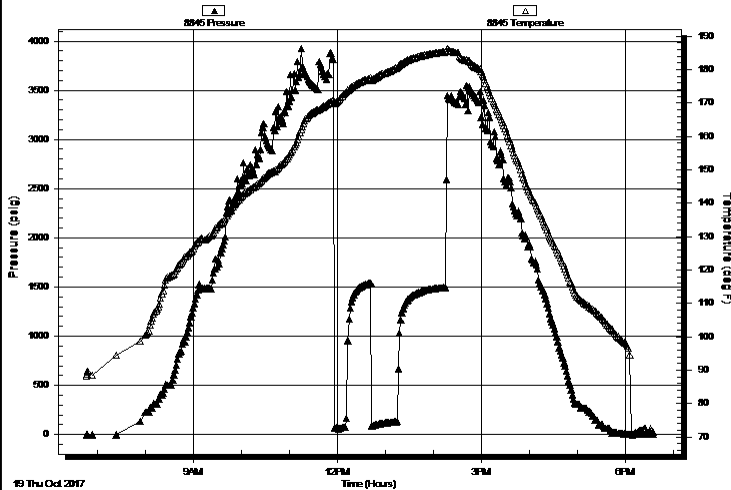
Last Calib.: 2017.10.19

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 2 1/5" blow .
IS: No return.
FF: 2 1/2" blow .
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

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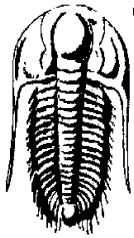
Recovery

Length (ft)	Description	Volume (bbl)
220.00	mcw 50m 50w	1.08

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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TOOL DIAGRAM

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Job Ticket: 64689

DST#: 2

ATTN: Randy Sae

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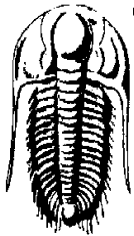
Tool Information

Drill Pipe:	Length: 6708.00 ft	Diameter: 3.80 inches	Volume: 94.10 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: 30000.00 lb
Drill Collar:	Length: 570.00 ft	Diameter: 2.25 inches	Volume: 2.80 bbl	Weight to Pull Loose: 175000.0 lb
		Total Volume: 96.90 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 160000.0 lb
Depth to Top Packer:	7290.00 ft			Final 160000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 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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Change Over Sub	1.00		7262.00	
Shut In Tool	5.00		7267.00	
Sampler	2.00		7269.00	
Hydraulic tool	5.00		7274.00	
Jars	5.00		7279.00	
Safety Joint	2.00		7281.00	
Packer	5.00		7286.00	29.00 Bottom Of Top Packer
Packer	4.00		7290.00	
Stubb	1.00		7291.00	
Recorder	0.00	8365 Inside	7291.00	
Recorder	0.00	8845 Outside	7291.00	
Perforations	4.00		7295.00	
Change Over Sub	1.00		7296.00	
Drill Pipe	63.00		7359.00	
Change Over Sub	1.00		7360.00	
Bullnose	3.00		7363.00	73.00 Bottom Packers & Anchor
Total Tool Length:	102.00			



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FLUID SUMMARY

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DST#: 2

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Test Start: 2017.10.19 @ 06:46:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 67.00 sec/qt

Water Loss: 6.40 in³

Resistivity: 0.00 ohm.m

Salinity: 400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

0 deg API

Water Salinity: 21000 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
220.00	mcw 50m 50w	1.082

Total Length: 220.00 ft Total Volume: 1.082 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: sampler data - 30m 70w @ 40psi
rw is .321 @ 69 F = 21000ppm

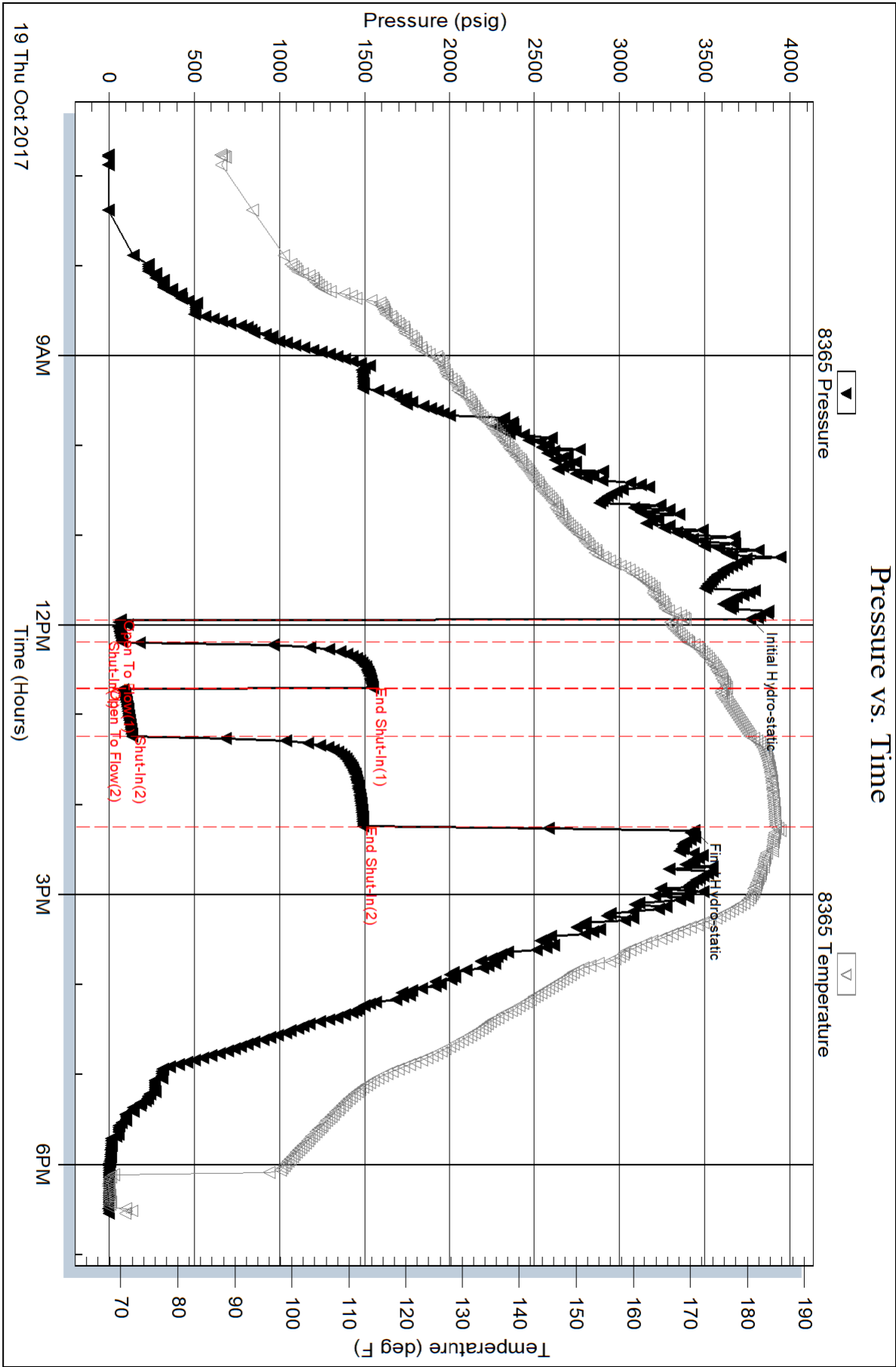
Serial #: 8365

Inside

K3 OIL & Gas Operating Co.

Clark 13-24

DST Test Number: 2



Serial #: 8845

Outside K3 OIL & Gas Operating Co.

Clark 13-24

DST Test Number: 2

