



DRILL STEM TEST REPORT

Prepared For: **Black Oak Exploration**

1474 S St Paul
Denver CO 80210

ATTN: Clayton Camozzi

MW & MS Farms #1-16

16-2s-31w Rawlins,KS

Start Date: 2019.08.04 @ 06:03:00

End Date: 2019.08.04 @ 12:22:30

Job Ticket #: 64673 DST #: 1

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

Printed: 2019.08.07 @ 10:26:57

Black Oak Exploration

16-2s-31w Rawlins,KS

MW & MS Farms #1-16

DST # 1

Oread - LKC A

2019.08.04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Black Oak Exploration

16-2s-31w Rawlins,KS

1474 S St Paul
Denver CO 80210

MW & MS Farms #1-16

Job Ticket: 64673

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2019.08.04 @ 06:03:00

GENERAL INFORMATION:

Formation: **Oread - LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:01:00

Time Test Ended: 12:22:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shawn Wheelbarger

Unit No: 76

Interval: 3784.00 ft (KB) To 3854.00 ft (KB) (TVD)

Reference Elevations: 2849.00 ft (KB)

Total Depth: 3854.00 ft (KB) (TVD)

2844.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8355 Outside

Press@RunDepth: 119.36 psig @ 3785.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.08.04

End Date:

2019.08.04

Last Calib.:

2019.08.04

Start Time: 06:03:01

End Time:

12:22:30

Time On Btm:

2019.08.04 @ 08:00:10

Time Off Btm:

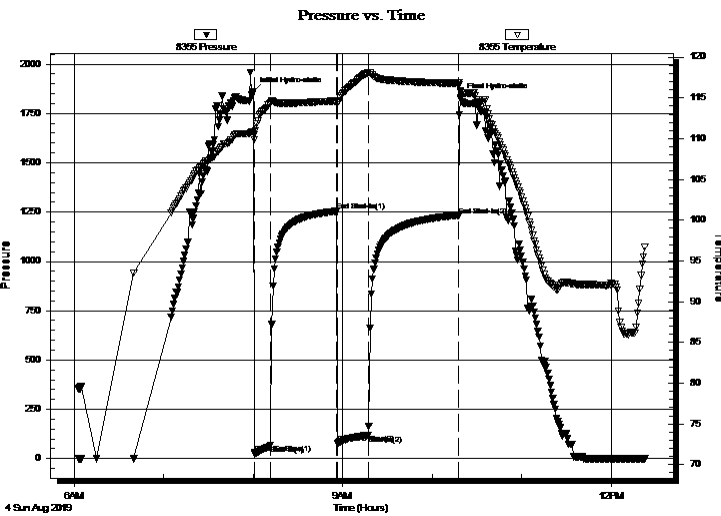
2019.08.04 @ 10:18:50

TEST COMMENT: 10-IF-1/2" Blow @ open built to 4 3/4"

45-ISI-No blow back

20-FF-Blow built to 6"

60-FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1862.04	110.84	Initial Hydro-static
1	24.93	110.43	Open To Flow (1)
12	65.82	114.41	Shut-In(1)
56	1254.26	114.62	End Shut-In(1)
57	76.90	114.33	Open To Flow (2)
78	119.36	118.08	Shut-In(2)
138	1232.94	116.79	End Shut-In(2)
139	1828.84	115.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	MW 66%W, 34%M	1.31

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Oak Exploration

16-2s-31w Rawlins,KS

1474 S St Paul
Denver CO 80210

MW & MS Farms #1-16

Job Ticket: 64673

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2019.08.04 @ 06:03:00

Tool Information

Drill Pipe:	Length: 3613.00 ft	Diameter: 3.80 inches	Volume: 50.68 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 51.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	37.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3784.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	98.00 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			3757.00	
Shut In Tool	5.00			3762.00	
Hydraulic tool	5.00		Inside	3767.00	
Jars	5.00			3772.00	
Safety Joint	2.00			3774.00	
Packer	5.00			3779.00	28.00 Bottom Of Top Packer
Packer	5.00			3784.00	
Packer - Shale	0.00			3784.00	
Stubb	1.00			3785.00	
Recorder	0.00	8355	Outside	3785.00	
Recorder	0.00	8645	Inside	3785.00	
Perforations	32.00			3817.00	
Change Over Sub	1.00			3818.00	
Drill Pipe	32.00			3850.00	
Change Over Sub	1.00			3851.00	
Bullnose	3.00			3854.00	70.00 Bottom Packers & Anchor
Total Tool Length:	98.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Oak Exploration

16-2s-31w Rawlins,KS

1474 S St Paul
Denver CO 80210

MW & MS Farms #1-16

Job Ticket: 64673

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2019.08.04 @ 06:03:00

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:

20000 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	MW 66%W, 34%M	1.306

Total Length: 210.00 ft Total Volume: 1.306 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

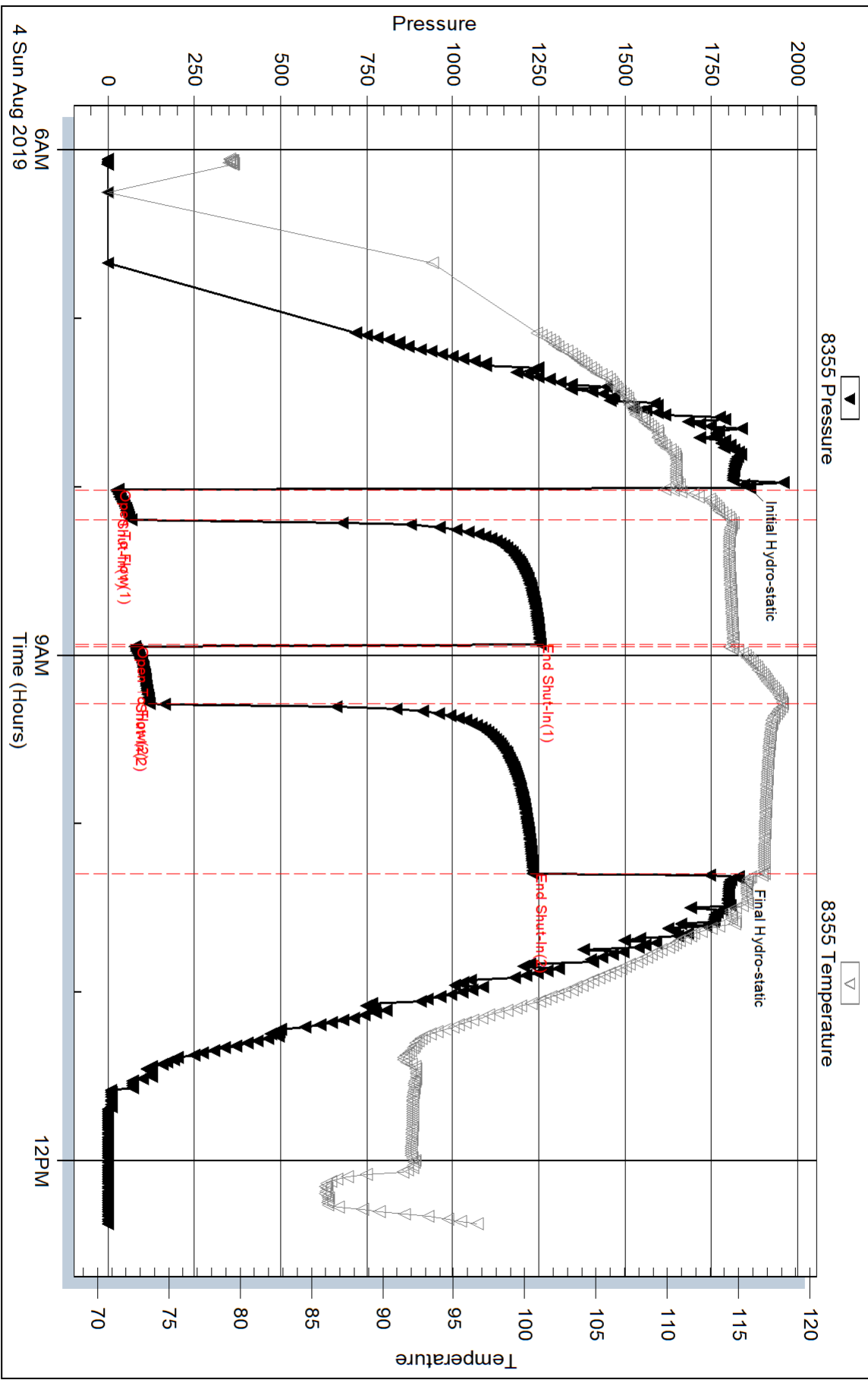
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .265 @ 91 DEG F Chlorides 20000

Pressure vs. Time



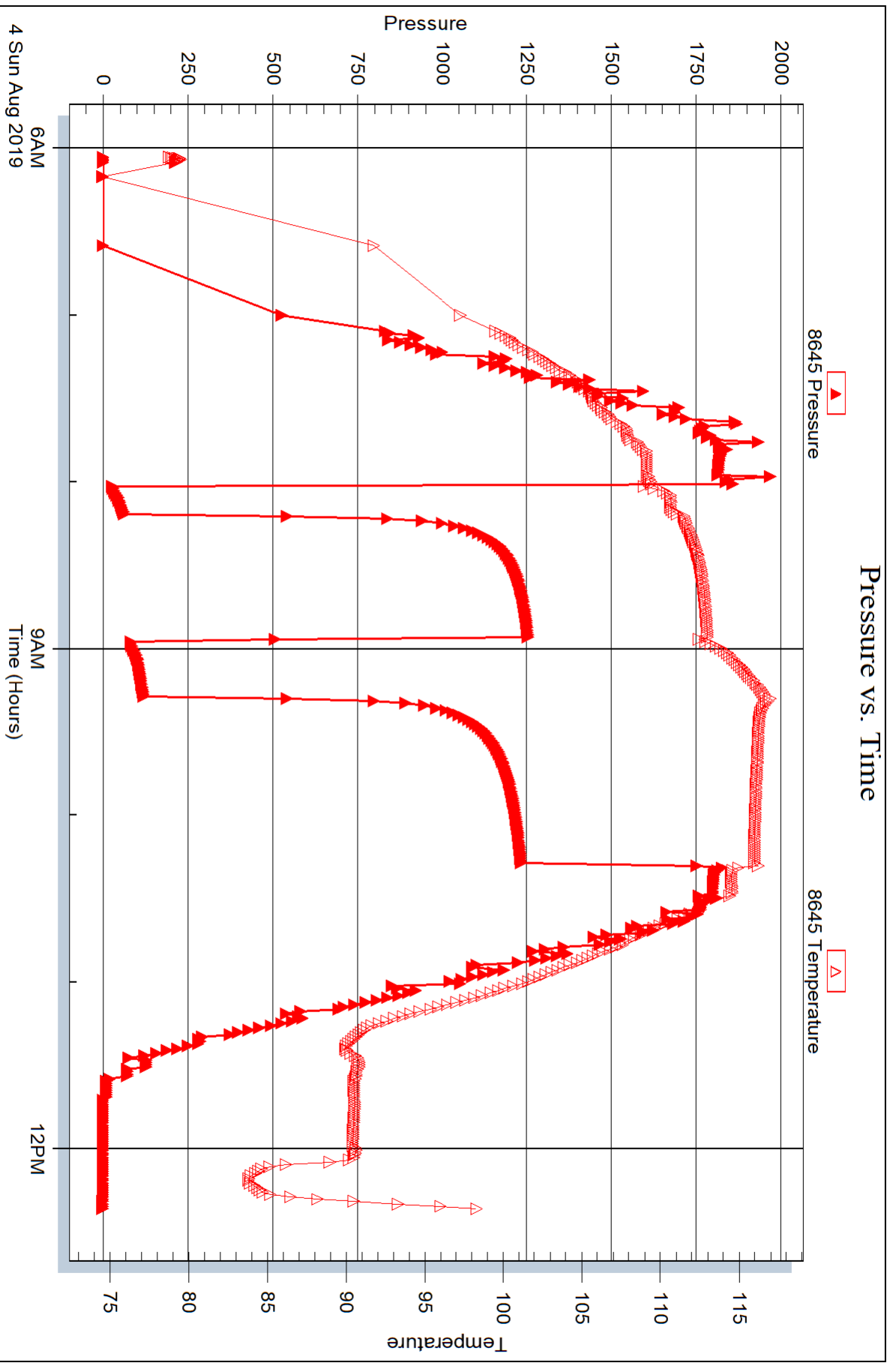
Serial #: 8645

Inside

Black Oak Exploration

MW & NS Farms #1-16

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Black Oak Exploration**

1474 S St Paul
Denver CO 80210

ATTN: Clayton Camozzi

MW & MS Farms #1-16

16-2s-31w Rawlins,KS

Start Date: 2019.08.04 @ 23:58:00

End Date: 2019.08.05 @ 05:42:52

Job Ticket #: 64674 DST #: 2

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

Printed: 2019.08.07 @ 10:25:03

Black Oak Exploration

16-2s-31w Rawlins,KS

MW & MS Farms #1-16

DST # 2

LKC D-G

2019.08.04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Black Oak Exploration

16-2s-31w Rawlins,KS

1474 S St Paul
Denver CO 80210

MW & MS Farms #1-16

ATTN: Clayton Camozzi

Job Ticket: 64674

DST#: 2

Test Start: 2019.08.04 @ 23:58:00

GENERAL INFORMATION:

Formation: **LKC D-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:54:42

Time Test Ended: 05:42:52

Test Type: Conventional Bottom Hole (Reset)

Tester: Shawn Wheelbarger

Unit No: 76

Interval: 3870.00 ft (KB) To 3950.00 ft (KB) (TVD)

Reference Elevations: 2849.00 ft (KB)

Total Depth: 3950.00 ft (KB) (TVD)

2844.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8355 Outside

Press@RunDepth: 23.97 psig @ 3871.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.08.04

End Date:

2019.08.05

Last Calib.: 2019.08.05

Start Time: 23:58:01

End Time:

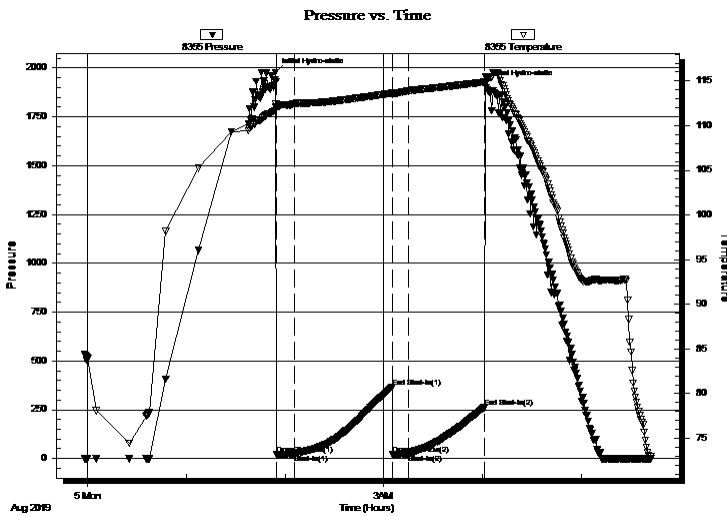
05:42:52

Time On Btm: 2019.08.05 @ 01:54:02

Time Off Btm: 2019.08.05 @ 04:01:42

TEST COMMENT: 10-IF-1/2" Blow @ open Built to 3/4"
60-ISI-Slight surface blow died after 30 mins
10-FF-No blow back
45-FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1977.02	112.12	Initial Hydro-static
1	19.83	112.03	Open To Flow (1)
12	21.59	112.44	Shut-In(1)
71	365.04	113.63	End Shut-In(1)
72	22.91	113.46	Open To Flow (2)
81	23.97	113.91	Shut-In(2)
127	260.59	114.86	End Shut-In(2)
128	1914.22	115.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	SGOSM 5%G, 3%O, 92%M	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Oak Exploration

16-2s-31w Rawlins,KS

1474 S St Paul
Denver CO 80210

MW & MS Farms #1-16

Job Ticket: 64674

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2019.08.04 @ 23:58:00

Tool Information

Drill Pipe:	Length: 3677.00 ft	Diameter: 3.80 inches	Volume: 51.58 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 52.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3870.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	108.00 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			3843.00	
Shut In Tool	5.00			3848.00	
Hydraulic tool	5.00		Inside	3853.00	
Jars	5.00			3858.00	
Safety Joint	2.00			3860.00	
Packer	5.00			3865.00	28.00 Bottom Of Top Packer
Packer	5.00			3870.00	
Packer - Shale	0.00			3870.00	
Stubb	1.00			3871.00	
Recorder	0.00	8355	Outside	3871.00	
Recorder	0.00	8645	Inside	3871.00	
Perforations	10.00			3881.00	
Change Over Sub	1.00			3882.00	
Drill Pipe	64.00			3946.00	
Change Over Sub	1.00			3947.00	
Bullnose	3.00			3950.00	80.00 Bottom Packers & Anchor
Total Tool Length:	108.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Oak Exploration

16-2s-31w Rawlins,KS

1474 S St Paul
Denver CO 80210

MW & MS Farms #1-16

Job Ticket: 64674

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2019.08.04 @ 23:58:00

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	SGOSM 5%G, 3%O, 92%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

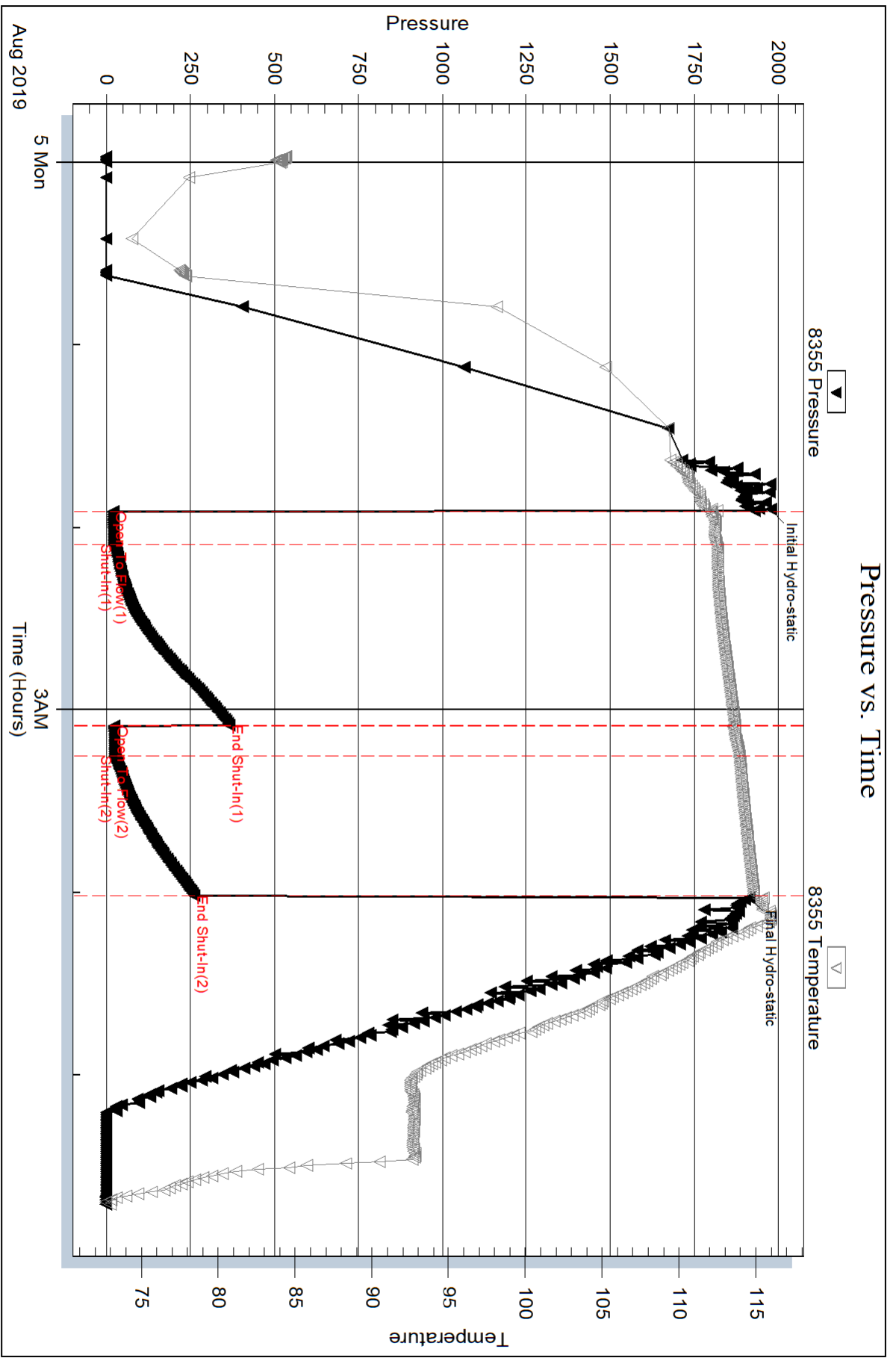
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



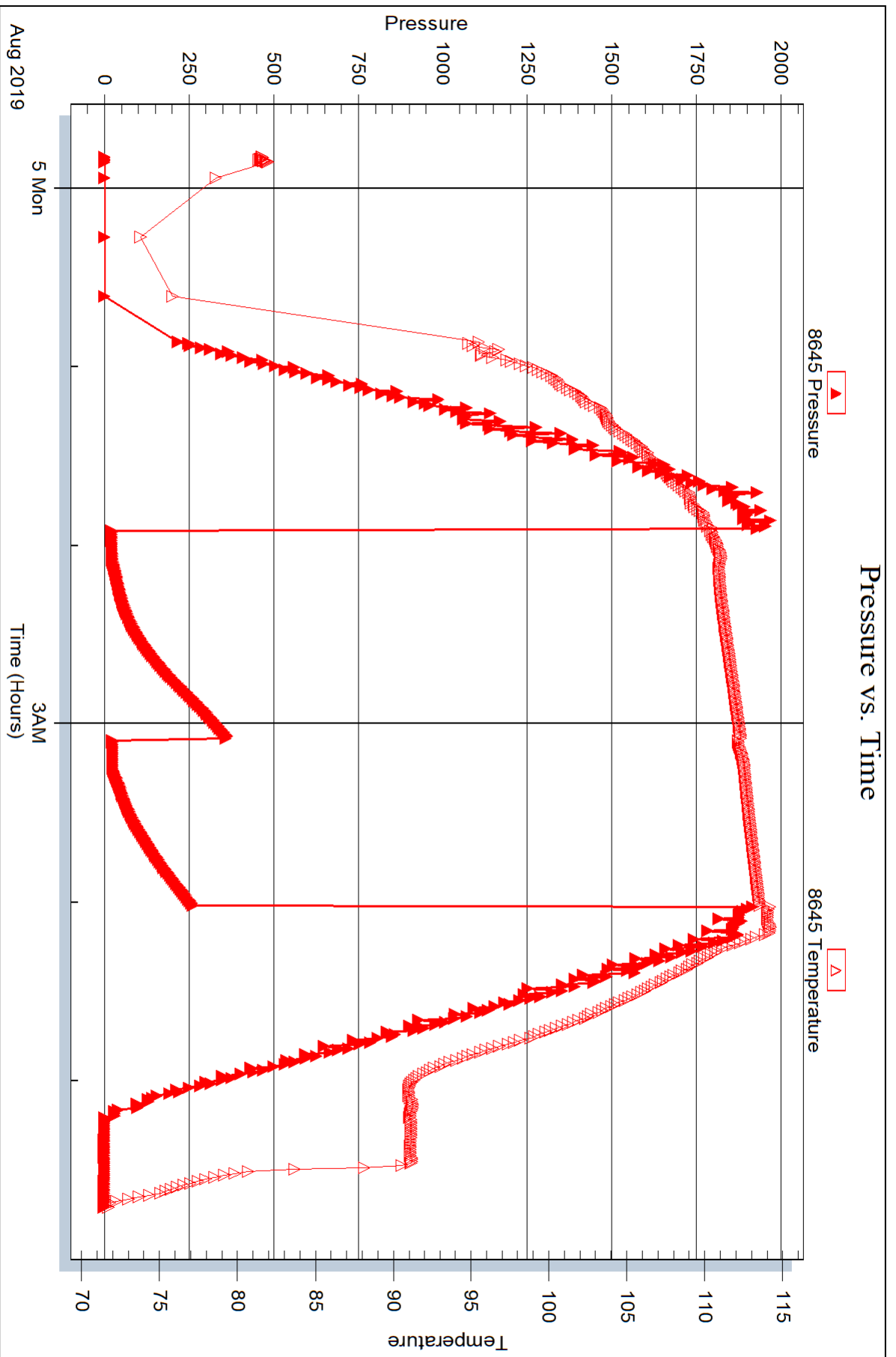
Serial #: 8645

Inside

Black Oak Exploration

MW & NS Farms #1-16

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64674

Printed: 2019.08.07 @ 10:25:04



DRILL STEM TEST REPORT

Prepared For: **Black Oak Exploration**

1474 S St Paul
Denver CO 80210

ATTN: Clayton Camozzi

MW & MS Farms #1-16

16-2s-31w Rawlins,KS

Start Date: 2019.08.05 @ 16:24:00

End Date: 2019.08.05 @ 23:43:20

Job Ticket #: 64675 DST #: 3

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

Printed: 2019.08.07 @ 10:21:26

Black Oak Exploration

16-2s-31w Rawlins,KS

MW & MS Farms #1-16

DST # 3

LKC H-J

2019.08.05



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Black Oak Exploration

16-2s-31w Rawlins,KS

1474 S St Paul
Denver CO 80210

MW & MS Farms #1-16

ATTN: Clayton Camozzi

Job Ticket: 64675

DST#: 3

Test Start: 2019.08.05 @ 16:24:00

GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:08:50

Time Test Ended: 23:43:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Shawn Wheelbarger

Unit No: 76

Interval: 3946.00 ft (KB) To 4026.00 ft (KB) (TVD)

Reference Elevations: 2849.00 ft (KB)

Total Depth: 4026.00 ft (KB) (TVD)

2844.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8355 Outside

Press@RunDepth: 39.09 psig @ 3947.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.08.05 End Date: 2019.08.05

Last Calib.: 2019.08.06

Start Time: 16:24:01 End Time: 23:43:20

Time On Btm: 2019.08.05 @ 19:08:20

Time Off Btm: 2019.08.05 @ 21:40:30

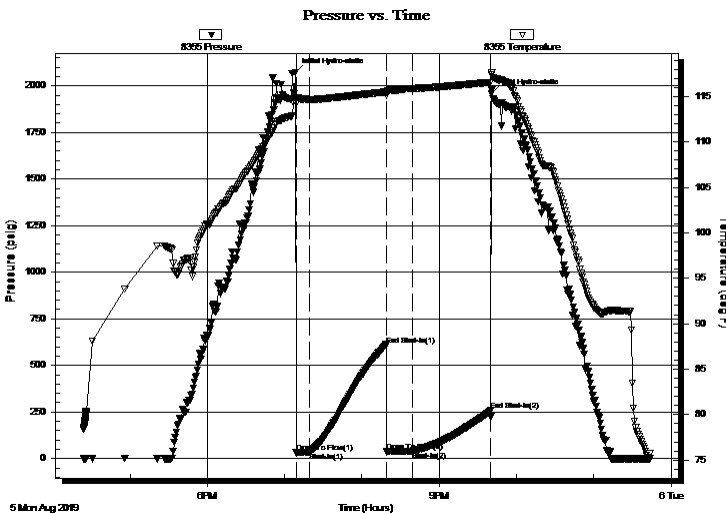
TEST COMMENT: 10-IF-1 1/4" Blow @ open built to 1 1/2"

60-ISI-No blow back

20-FF-No blow

60-FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2071.94	114.82	Initial Hydro-static
1	31.48	114.21	Open To Flow (1)
11	35.12	114.65	Shut-In(1)
71	610.98	115.49	End Shut-In(1)
71	38.21	115.16	Open To Flow (2)
91	39.09	115.87	Shut-In(2)
152	257.59	116.56	End Shut-In(2)
153	1957.19	117.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SGCM 6%G, 94%M	0.15

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Oak Exploration

16-2s-31w Rawlins,KS

1474 S St Paul
Denver CO 80210

MW & MS Farms #1-16

Job Ticket: 64675

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2019.08.05 @ 16:24:00

Tool Information

Drill Pipe:	Length: 3772.00 ft	Diameter: 3.80 inches	Volume: 52.91 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 53.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3946.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	108.00 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			3919.00	
Shut In Tool	5.00			3924.00	
Hydraulic tool	5.00		Inside	3929.00	
Jars	5.00			3934.00	
Safety Joint	2.00			3936.00	
Packer	5.00			3941.00	28.00 Bottom Of Top Packer
Packer	5.00			3946.00	
Packer - Shale	0.00			3946.00	
Stubb	1.00			3947.00	
Recorder	0.00	8355	Outside	3947.00	
Recorder	0.00	8645	Inside	3947.00	
Perforations	10.00			3957.00	
Change Over Sub	1.00			3958.00	
Drill Pipe	64.00			4022.00	
Change Over Sub	1.00			4023.00	
Bullnose	3.00			4026.00	80.00 Bottom Packers & Anchor
Total Tool Length:	108.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Oak Exploration

16-2s-31w Rawlins,KS

1474 S St Paul
Denver CO 80210

MW & MS Farms #1-16

Job Ticket: 64675

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2019.08.05 @ 16:24:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SGCM 6%G, 94%M	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

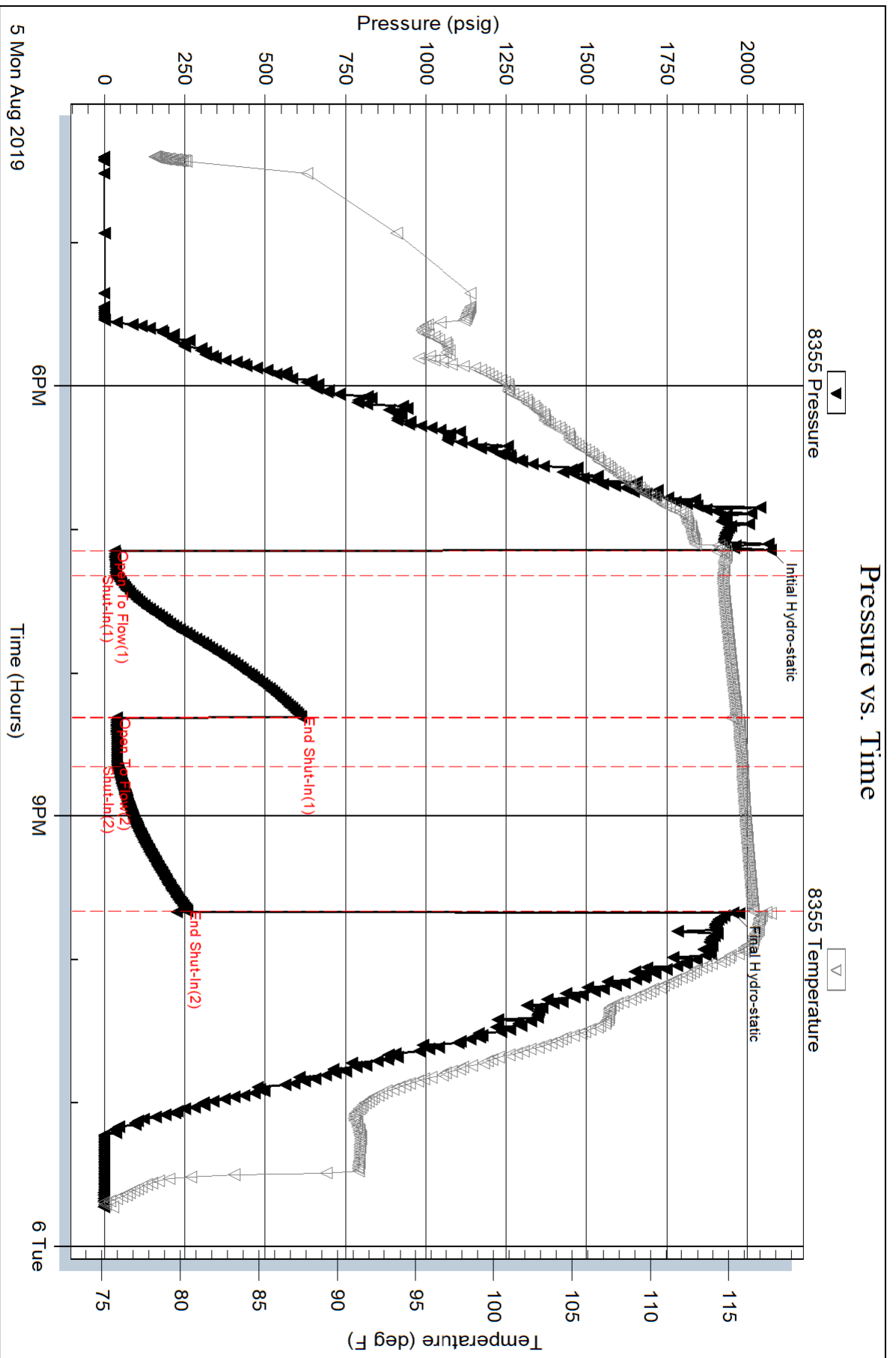
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



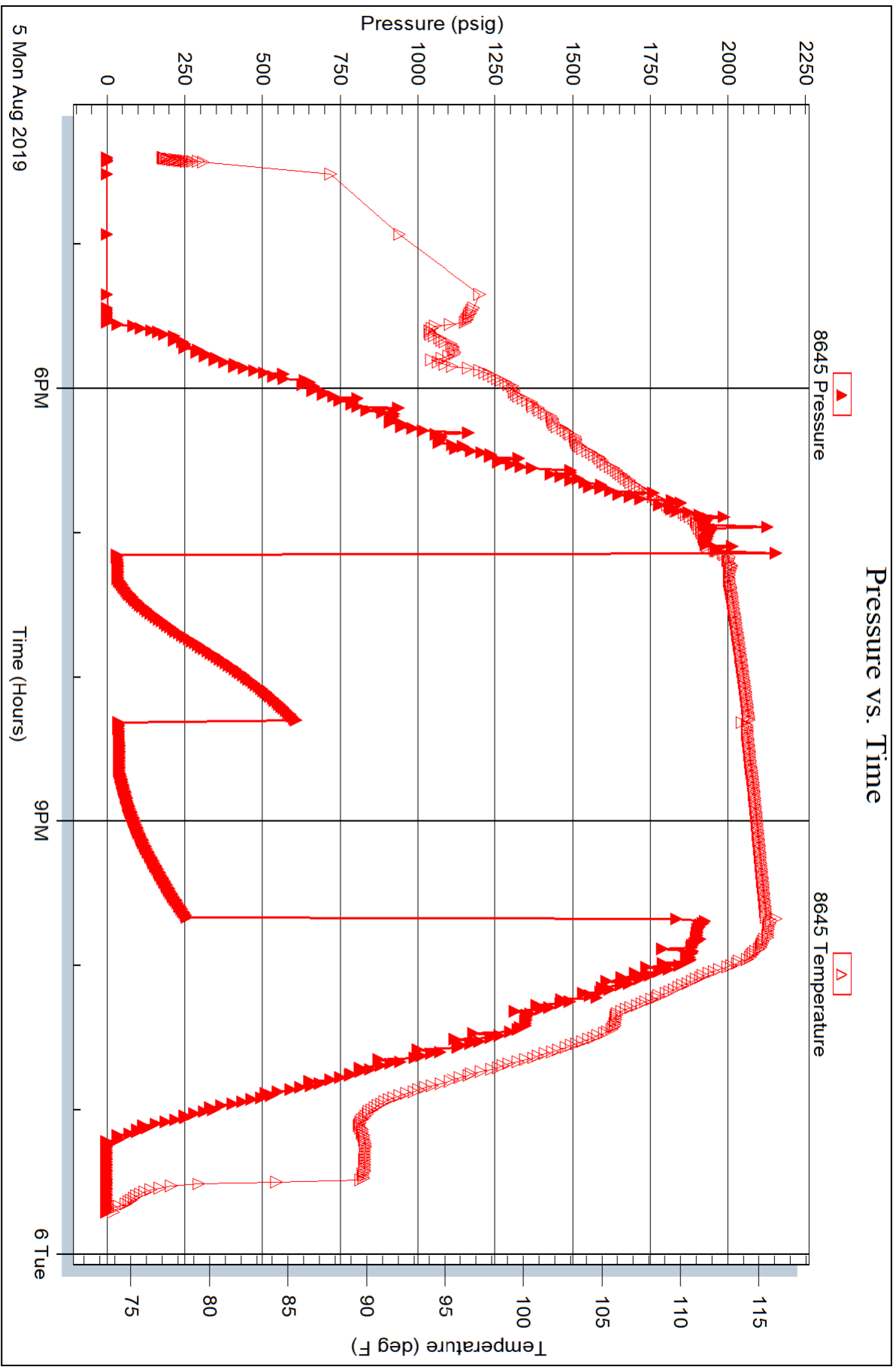
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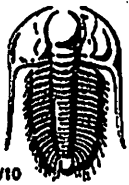
Inside

Black Oak Exploration

MW & NS Farms #1-16

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64673

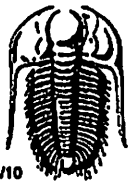
Well Name & No. MW & MS Farms #1-16 Test No. 1 Date 8-4-19
 Company Black Oak Exploration Elevation 2849 KB 2844 GL
 Address 1474 S St Paul Denver CO 80210
 Co. Rep / Geo. Clayton Camozzi Rig Martin #7
 Location: Sec. 16 Twp 2S Rge. 31W Co. Rawlins State KS

Interval Tested 3784-3854 Zone Tested Oreud Lens A
 Anchor Length 70 Drill Pipe Run 3613 Mud Wt. 9
 Top Packer Depth 3779 Drill Collars Run 180 Vis 6.5
 Bottom Packer Depth 3784 Wt. Pipe Run - WL 6.4
 Total Depth 3854 Chlorides 1300 ppm System LCM 4
 Blow Description IF 1/2" Blow @ open built to 4 3/4"
ISI No Blowback
FF Blow built to 6"
FSI No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>210</u>	<u>MW</u>		<u>66</u>	<u>34</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 210 BHT 116 Gravity - API RW 26.5 @ 91 °F Chlorides 20000 ppm
 (A) Initial Hydrostatic 1862 Test 1200 T-On Location 4:37
 (B) First Initial Flow 25 Jars 250 T-Started 6:03
 (C) First Final Flow 66 Safety Joint 75 T-Open 8:00
 (D) Initial Shut-In 1254 Circ Sub T-Pulled 10:15
 (E) Second Initial Flow 77 Hourly Standby T-Out 12:14
 (F) Second Final Flow 119 Mileage 38 RT 38 Comments _____
 (G) Final Shut-In 1233 Sampler _____
 (H) Final Hydrostatic 1829 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Initial Open 10 Day Standby _____ Sub Total 0
 Initial Shut-In 45 Accessibility _____ Total 1813
 Final Flow 20 Sub Total 1813 MP/DST Disc't _____
 Final Shut-In 60

Approved By _____ Our Representative Shawn Hechberger
 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. 64674

Well Name & No. MW + MS Farms #1-16 Test No. 2 Date 8-4-19
 Company Black Oak Exploration Elevation 2849 KB 2844 GL
 Address 1474 S St Paul Denver CO 80210
 Co. Rep / Geo. Clayton Camozzi Rig Murfin #7
 Location: Sec. 16 Twp 25 Rge. 31w Co. Rawlins State KS

Interval Tested 3870 - 3950 Zone Tested Lans D-6
 Anchor Length 80 Drill Pipe Run 3677 Mud Wt. 8.9
 Top Packer Depth 3865 Drill Collars Run 180 Vis 62
 Bottom Packer Depth 3870 Wt. Pipe Run 000 - WL 6.4
 Total Depth 3950 Chlorides 1300 ppm System LCM 3
 Blow Description IF 1/2" Blow @ open built to 3/4"
ISI Slight surface blow died after 30mins
FF NO blow back
FSI No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>5605M</u>	<u>5</u>	<u>3</u>	<u>92</u>	<u>0</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

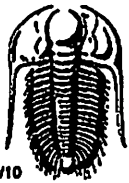
Rec Total 5 BHT 116 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1977</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>23:34 8-4</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>23:58 8-4</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2:02</u>
(D) Initial Shut-In <u>365</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>4:07</u>
(E) Second Initial Flow <u>23</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>5:45</u>
(F) Second Final Flow <u>24</u>	<input checked="" type="checkbox"/> Mileage <u>38 RT</u> 38	Comments
(G) Final Shut-In <u>261</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1914</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>10</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>10</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1813</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1813</u>	

Approved By _____

Our Representative Shawn Wheelbarger

Triobite 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. 64675

Well Name & No. MW + MS Farms #1-16 Test No. 3 Date 8-5-19
 Company Black Oak Exploration Elevation 2849 KB 2844 GL
 Address 1474 S St Paul Denver CO 80210
 Co. Rep / Geo. Claudio Camozzi Rig Murfin #7
 Location: Sec. 16 Twp 2S Rge. 31W Co. Rawlins State KS

Interval Tested 3946 - 4026 Zone Tested Lans H-J
 Anchor Length 80 Drill Pipe Run 3772 Mud Wt. 9
 Top Packer Depth 3941 Drill Collars Run 180 Vis 55
 Bottom Packer Depth 3946 Wt. Pipe Run — WL 6.4
 Total Depth 4026 Chlorides 1300 ppm System LCM 4
 Blow Description IF 1 1/4" Blow @ open built to 1 1/2"
ISI No blow back
FF No blow
FSI No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>SGCM w/oil spots</u>	<u>6</u>		<u>94</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 30 BHT 117 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2072</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>16:16</u>
(B) First Initial Flow <u>31</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>16:24</u>
(C) First Final Flow <u>35</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>19:09</u>
(D) Initial Shut-In <u>611</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>21:39</u>
(E) Second Initial Flow <u>38</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>23:40</u>
(F) Second Final Flow <u>39</u>	<input checked="" type="checkbox"/> Mileage <u>38 RT</u> 76	Comments <u>loaded tools 8/6 23:15</u>
(G) Final Shut-In <u>258</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>1957</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>10</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow <u>20</u>	<input type="checkbox"/> Extra Recorder	Total <u>1951</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1951</u>	

Approved By _____ Our Representative Shawn Heebarger
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