



DRILL STEM TEST REPORT

Prepared For: **Anchor Bay Petroleum LLC.**

1952 Victoria Rd
Hays KS 67601

ATTN: Ed Glassman

Slimmer #1

2-11S-17W Ellis,KS

Start Date: 2019.07.10 @ 14:51:00

End Date: 2019.07.10 @ 19:15:45

Job Ticket #: 65943 DST #: 1

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

Printed: 2019.07.16 @ 16:32:09



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Anchor Bay Petroleum LLC.

2-11S-17W Ellis,KS

1952 Victoria Rd
Hays KS 67601

Slimmer #1

Job Ticket: 65943

DST#: 1

ATTN: Ed Glassman

Test Start: 2019.07.10 @ 14:51:00

GENERAL INFORMATION:

Formation: **Lower Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:13:45

Time Test Ended: 19:15:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 77

Interval: 3034.00 ft (KB) To 3051.00 ft (KB) (TVD)

Reference Elevations: 1908.00 ft (KB)

Total Depth: 3051.00 ft (KB) (TVD)

1903.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8671 Outside

Press@RunDepth: 23.70 psig @ 3035.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.07.10 End Date: 2019.07.10

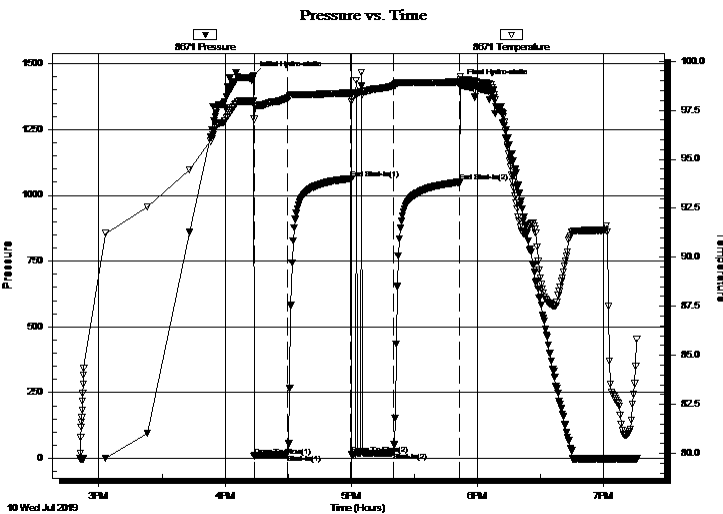
Last Calib.: 2019.07.10

Start Time: 14:51:05 End Time: 19:15:44

Time On Btm: 2019.07.10 @ 16:13:30

Time Off Btm: 2019.07.10 @ 17:52:00

TEST COMMENT: 15 - IFP - Surface blow slow ely built to 3/4"
30 - ISI - No Return
15 - FFP - Opened tool flushed then Surface blow slow ely built to 3/4"
30 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1453.90	97.97	Initial Hydro-static
1	9.22	97.05	Open To Flow (1)
16	14.91	98.10	Shut-In(1)
46	1063.43	98.38	End Shut-In(1)
47	16.09	97.94	Open To Flow (2)
67	23.70	98.73	Shut-In(2)
98	1050.23	98.94	End Shut-In(2)
99	1423.94	99.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OSWM - Oil Spots - 45%w - 55%w	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Anchor Bay Petroleum LLC.

2-11S-17W Ellis,KS

1952 Victoria Rd
Hays KS 67601

Slimmer #1

Job Ticket: 65943

DST#: 1

ATTN: Ed Glassman

Test Start: 2019.07.10 @ 14:51:00

Tool Information

Drill Pipe:	Length: 3046.36 ft	Diameter: 3.25 inches	Volume: 31.26 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 31.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.36 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3034.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3019.00	
Hydraulic tool	5.00			3024.00	
Packer	5.00			3029.00	20.00 Bottom Of Top Packer
Packer	5.00			3034.00	
Stubb	1.00			3035.00	
Recorder	0.00	8360	Inside	3035.00	
Recorder	0.00	8671	Outside	3035.00	
perforations	13.00			3048.00	
Bullnose	3.00			3051.00	17.00 Bottom Packers & Anchor
Total Tool Length:	37.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Anchor Bay Petroleum LLC.

2-11S-17W Ellis,KS

1952 Victoria Rd
Hays KS 67601

Slimmer #1

Job Ticket: 65943

DST#: 1

ATTN: Ed Glassman

Test Start: 2019.07.10 @ 14:51:00

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:

7000 ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OSWM - Oil Spots - 45%w - 55%m	0.205

Total Length: 20.00 ft Total Volume: 0.205 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

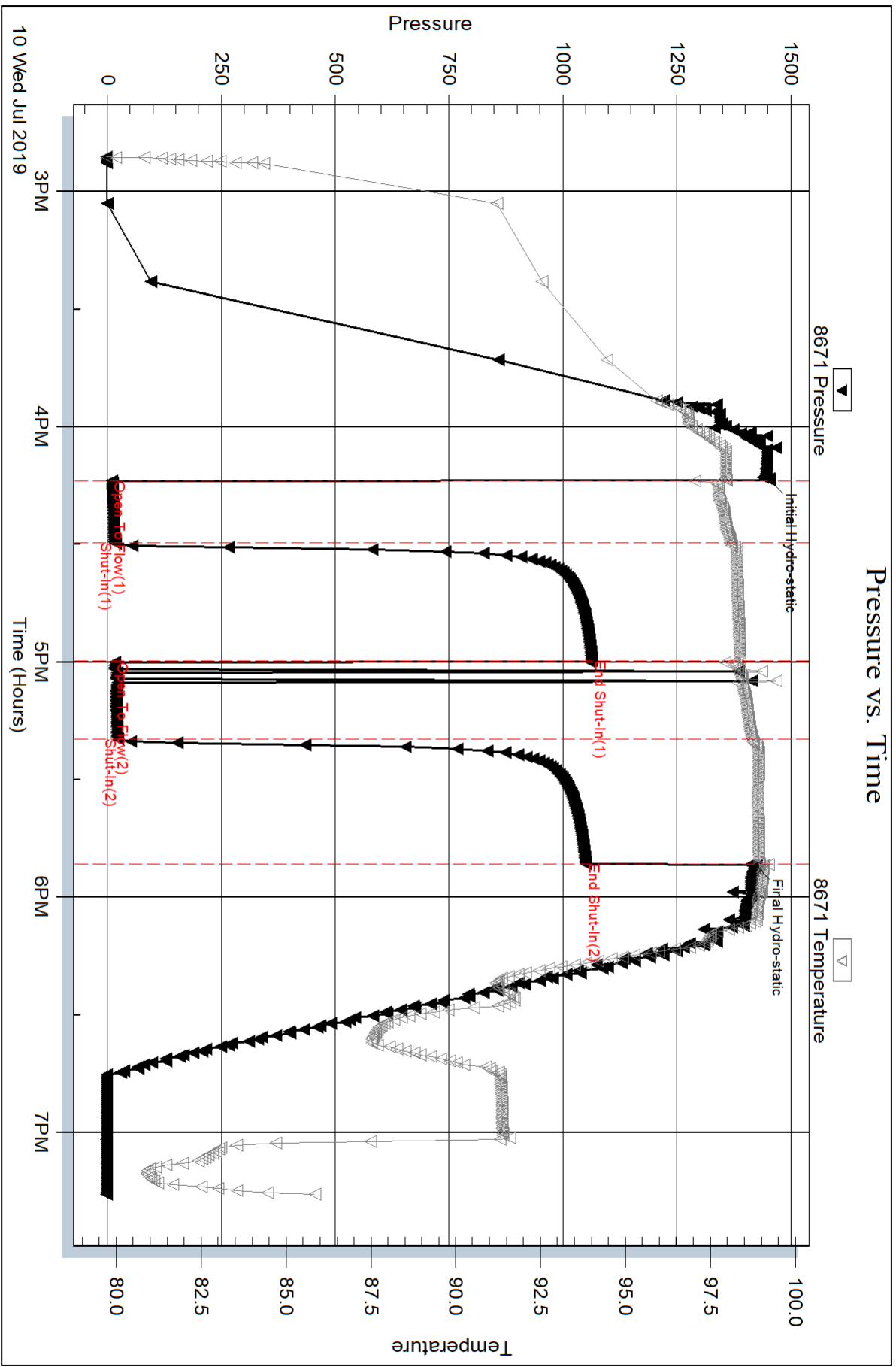
Recovery Comments: salinity - .646@91 deg.

Serial #: 8671

Outside Anchor Bay Petroleum LLC

Slimmer #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65943

Printed: 2019.07.16 @ 16:32:10

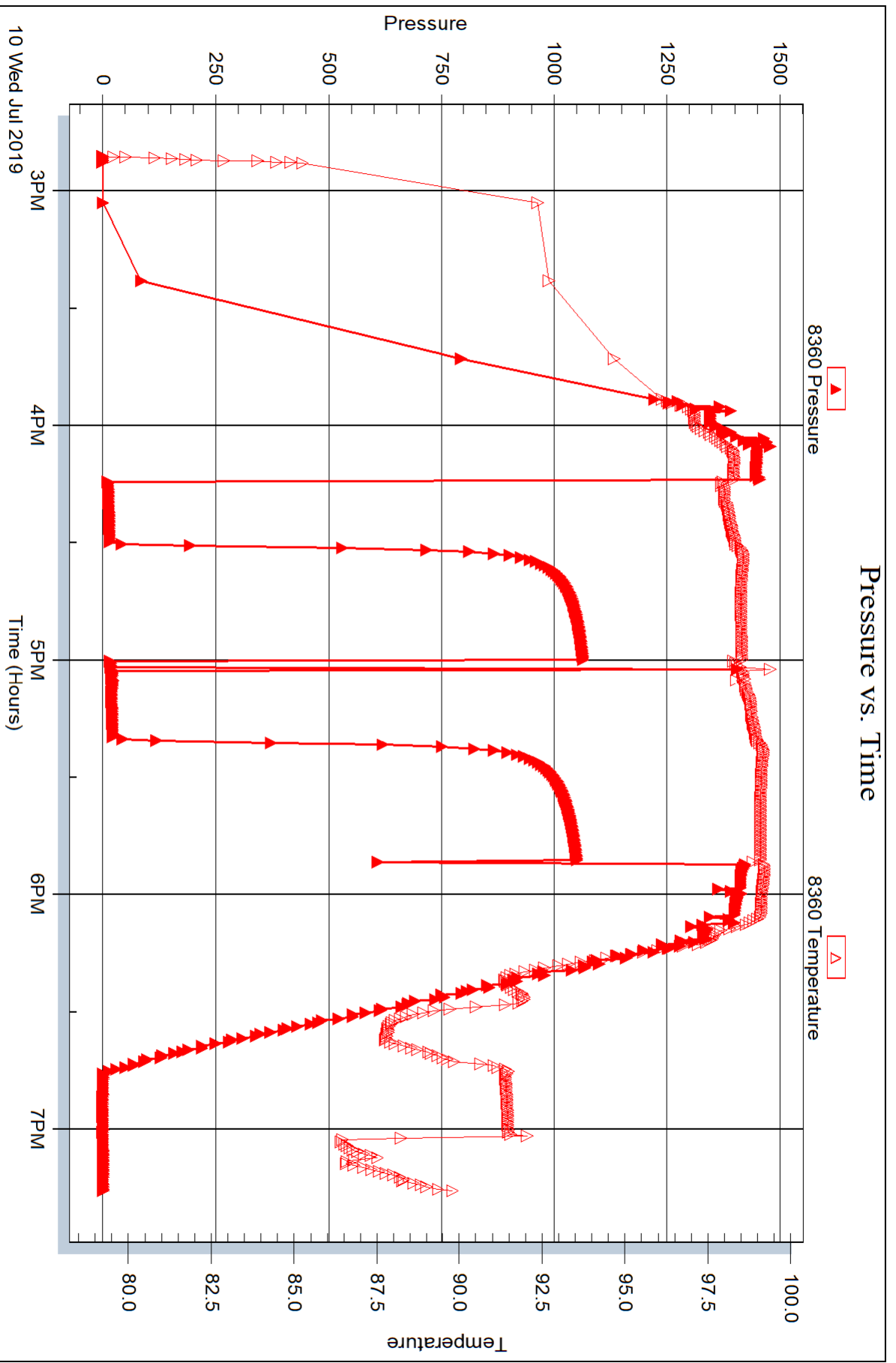
Serial #: 8360

Inside

Anchor Bay Petroleum LLC.

Slimmer #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65943

Printed: 2019.07.16 @ 16:32:10



DRILL STEM TEST REPORT

Prepared For: **Anchor Bay Petroleum LLC.**

1952 Victoria Rd
Hays KS 67601

ATTN: Ed Glassman

Slimmer #1

2-11S-17W Ellis,KS

Start Date: 2019.07.11 @ 15:00:00

End Date: 2019.07.11 @ 21:07:30

Job Ticket #: 65944 DST #: 2

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

Printed: 2019.07.16 @ 16:31:44



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Anchor Bay Petroleum LLC.

2-11S-17W Ellis,KS

1952 Victoria Rd
Hays KS 67601

Slimmer #1

Job Ticket: 65944

DST#: 2

ATTN: Ed Glassman

Test Start: 2019.07.11 @ 15:00:00

GENERAL INFORMATION:

Formation: **Lansing H - K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:52:15

Time Test Ended: 21:07:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #77

Interval: 3238.00 ft (KB) To 3340.00 ft (KB) (TVD)

Reference Elevations: 1908.00 ft (KB)

Total Depth: 3340.00 ft (KB) (TVD)

1903.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8671 Outside

Press@RunDepth: 39.72 psig @ 3239.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.07.11

End Date:

2019.07.11

Last Calib.:

2019.07.11

Start Time: 15:00:05

End Time:

21:07:29

Time On Btm:

2019.07.11 @ 16:51:30

Time Off Btm:

2019.07.11 @ 19:43:45

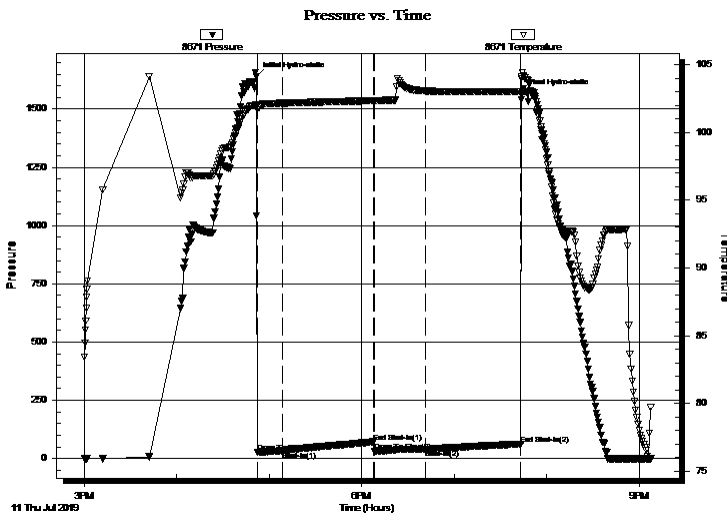
TEST COMMENT: 15 - IFP - Surface blow gradually built to 4"

60 - ISI - No Return

35 - FFP - Surface blow slowly built to 1", Flushed tool, blow built to 1 3/4", then died off to 1"

60 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1640.73	102.03	Initial Hydro-static
1	27.29	101.67	Open To Flow (1)
17	32.35	102.15	Shut-In(1)
77	70.83	102.33	End Shut-In(1)
77	30.24	102.33	Open To Flow (2)
110	39.72	103.05	Shut-In(2)
172	62.24	102.98	End Shut-In(2)
173	1564.32	104.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
58.00	OCM - 15%o - 85%m	0.60

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Anchor Bay Petroleum LLC.

2-11S-17W Ellis,KS

1952 Victoria Rd
Hays KS 67601

Slimmer #1

Job Ticket: 65944

DST#: 2

ATTN: Ed Glassman

Test Start: 2019.07.11 @ 15:00:00

Tool Information

Drill Pipe:	Length: 3236.80 ft	Diameter: 3.25 inches	Volume: 33.21 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 33.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.80 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3238.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	102.00 ft			
Tool Length:	122.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3223.00	
Hydraulic tool	5.00			3228.00	
Packer	5.00			3233.00	20.00 Bottom Of Top Packer
Packer	5.00			3238.00	
Stubb	1.00			3239.00	
Recorder	0.00	8360	Inside	3239.00	
Recorder	0.00	8671	Outside	3239.00	
perforations	33.00			3272.00	
Change Over Sub	1.00			3273.00	
Drill Pipe	63.00			3336.00	
Change Over Sub	1.00			3337.00	
Bullnose	3.00			3340.00	102.00 Bottom Packers & Anchor

Total Tool Length: 122.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Anchor Bay Petroleum LLC.

2-11S-17W Ellis,KS

1952 Victoria Rd
Hays KS 67601

Slimmer #1

Job Ticket: 65944

DST#: 2

ATTN: Ed Glassman

Test Start: 2019.07.11 @ 15:00:00

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
58.00	OCM - 15%o - 85%m	0.595

Total Length: 58.00 ft Total Volume: 0.595 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

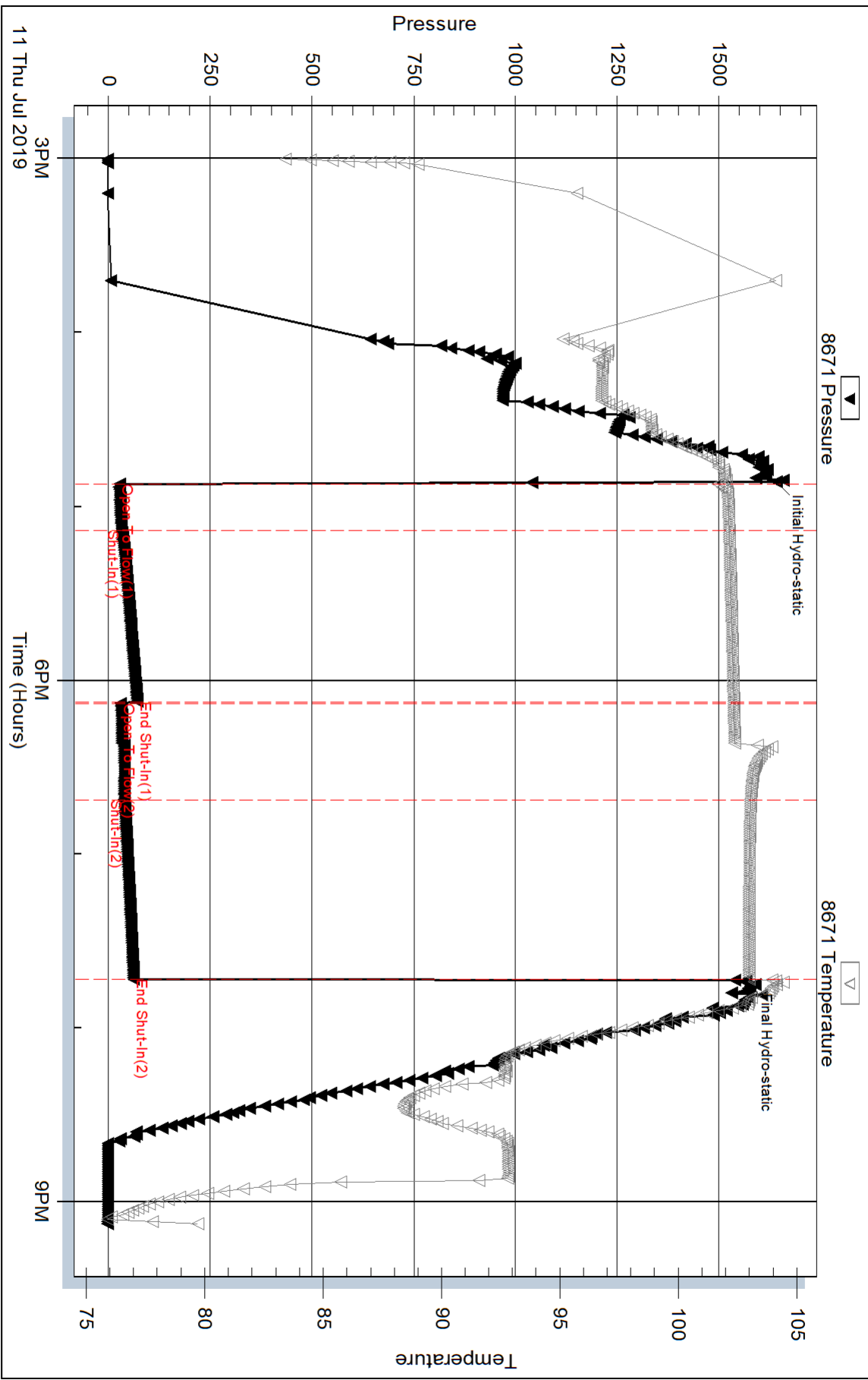
Serial #: 8671

Outside Anchor Bay Petroleum LLC

Slimmer #1

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 65944

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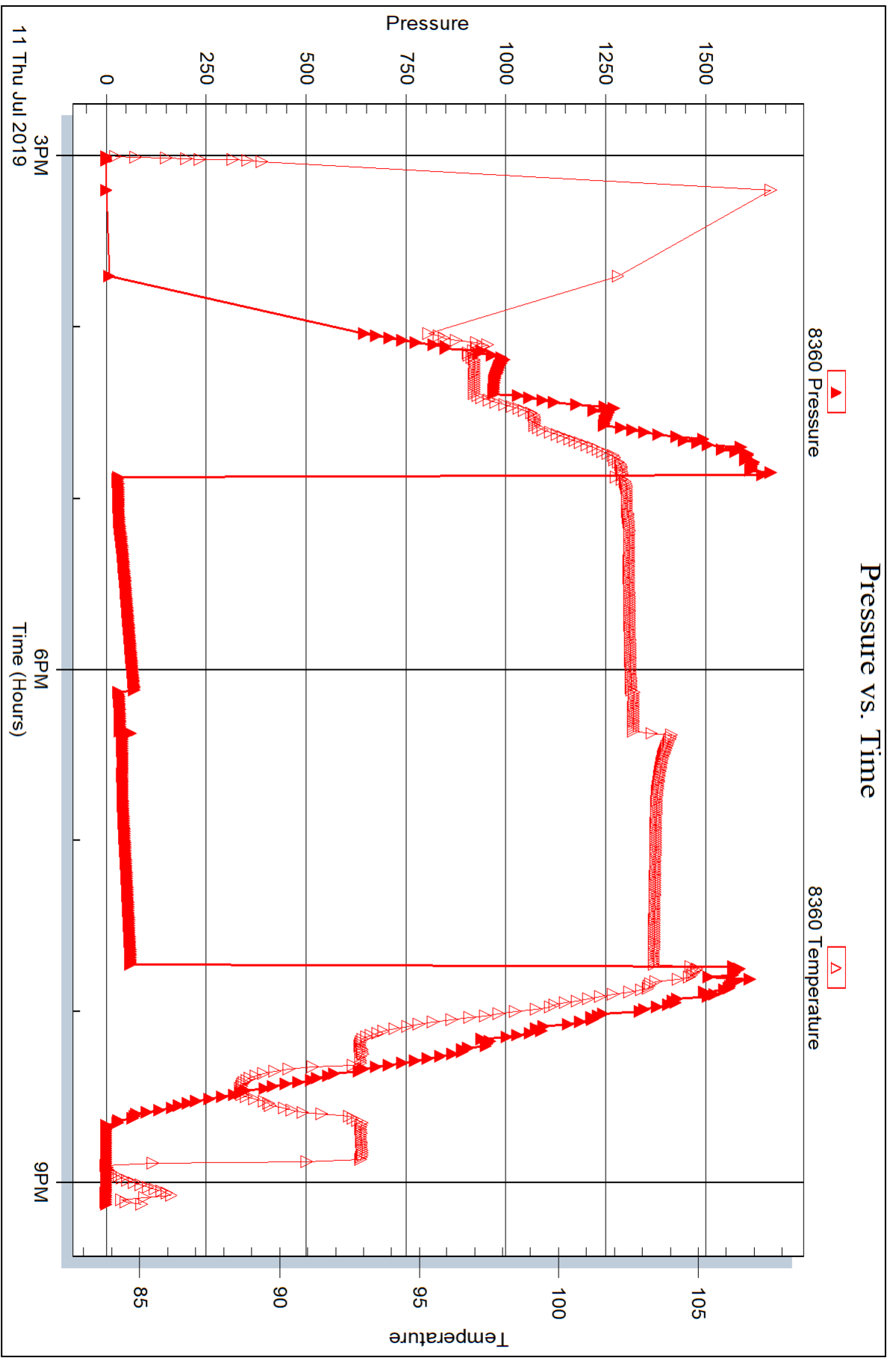
Serial #: 8360

Inside

Anchor Bay Petroleum LLC.

Slimmer #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65944

Printed: 2019.07.16 @ 16:31:45



DRILL STEM TEST REPORT

Prepared For: **Anchor Bay Petroleum LLC.**

1952 Victoria Rd
Hays KS 67601

ATTN: Ed Glassman

Slimmer #1

2-11S-17W Ellis,KS

Start Date: 2019.07.12 @ 05:02:00

End Date: 2019.07.12 @ 11:10:30

Job Ticket #: 65945 DST #: 3

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

Printed: 2019.07.16 @ 16:31:20



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Anchor Bay Petroleum LLC.

2-11S-17W Ellis,KS

1952 Victoria Rd
Hays KS 67601

Slimmer #1

Job Ticket: 65945

DST#: 3

ATTN: Ed Glassman

Test Start: 2019.07.12 @ 05:02:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:39:00

Time Test Ended: 11:10:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 77

Interval: 3337.00 ft (KB) To 3401.00 ft (KB) (TVD)

Reference Elevations: 1908.00 ft (KB)

Total Depth: 3401.00 ft (KB) (TVD)

1903.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8671

Outside

Press@RunDepth: 67.64 psig @ 3338.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.07.12

End Date:

2019.07.12

Last Calib.:

2019.07.12

Start Time: 05:02:05

End Time:

11:10:29

Time On Btm:

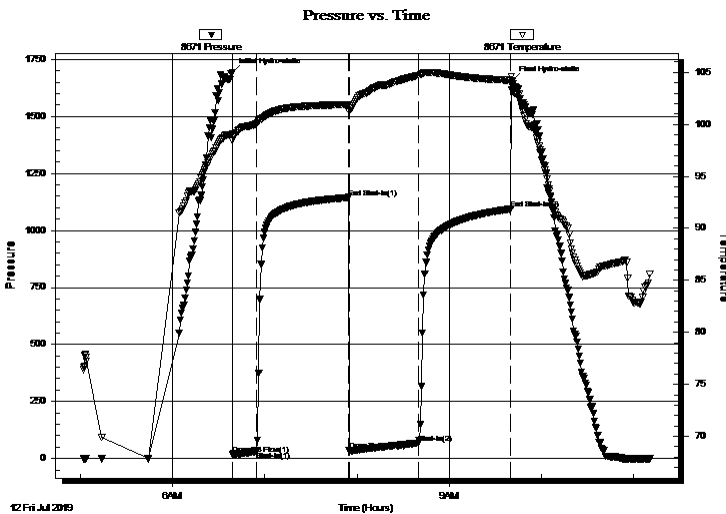
2019.07.12 @ 06:38:45

Time Off Btm:

2019.07.12 @ 09:41:00

TEST COMMENT: 15 - IFP - Surface blow gradually built to 4 1/4"
60 - ISI - No Return
45 - FFP - Surface blow steadily built to 6 3/4"
60 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1693.06	99.08	Initial Hydro-static
1	17.99	98.42	Open To Flow (1)
16	33.00	100.09	Shut-In(1)
76	1144.49	101.89	End Shut-In(1)
76	35.29	101.19	Open To Flow (2)
122	67.64	104.70	Shut-In(2)
182	1094.49	104.23	End Shut-In(2)
183	1655.09	103.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
123.00	OSMW - Oil Spots - 35%w - 65%w	1.26

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Anchor Bay Petroleum LLC.

2-11S-17W Ellis,KS

1952 Victoria Rd
Hays KS 67601

Slimmer #1

Job Ticket: 65945

DST#: 3

ATTN: Ed Glassman

Test Start: 2019.07.12 @ 05:02:00

Tool Information

Drill Pipe:	Length: 3331.94 ft	Diameter: 3.25 inches	Volume: 34.19 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 34.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.94 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3337.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	84.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3322.00	
Hydraulic tool	5.00			3327.00	
Packer	5.00			3332.00	20.00 Bottom Of Top Packer
Packer	5.00			3337.00	
Stubb	1.00			3338.00	
Recorder	0.00	8360	Inside	3338.00	
Recorder	0.00	8671	Outside	3338.00	
perforations	27.00			3365.00	
Change Over Sub	1.00			3366.00	
Drill Pipe	31.00			3397.00	
Change Over Sub	1.00			3398.00	
Bullnose	3.00			3401.00	64.00 Bottom Packers & Anchor

Total Tool Length: 84.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Anchor Bay Petroleum LLC.

2-11S-17W Ellis,KS

1952 Victoria Rd
Hays KS 67601

Slimmer #1

Job Ticket: 65945

DST#: 3

ATTN: Ed Glassman

Test Start: 2019.07.12 @ 05:02:00

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:

15000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
123.00	OSMW - Oil Spots - 35%m - 65%w	1.262

Total Length: 123.00 ft Total Volume: 1.262 bbl

Num Fluid Samples: 0

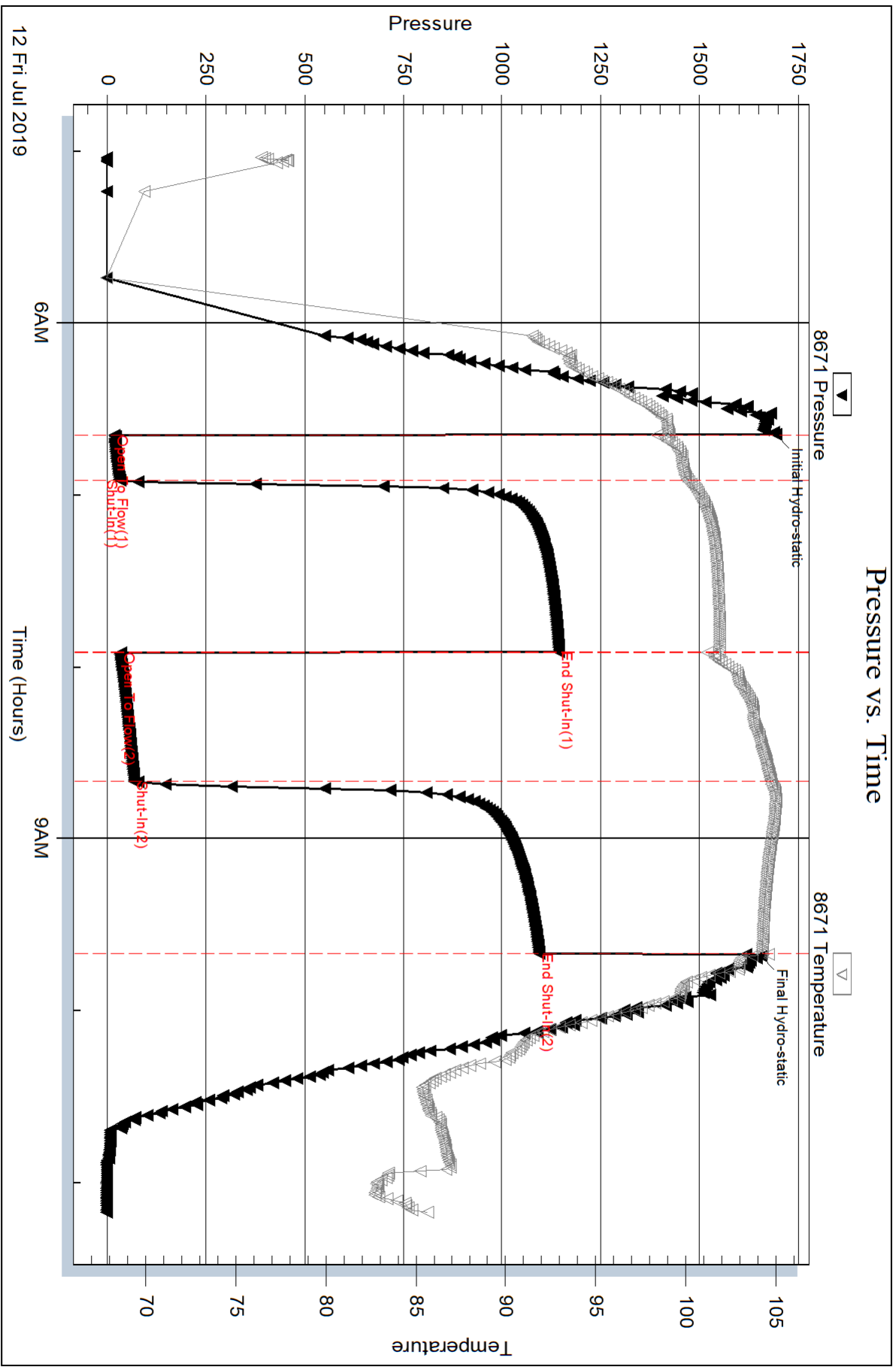
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .336@93deg.



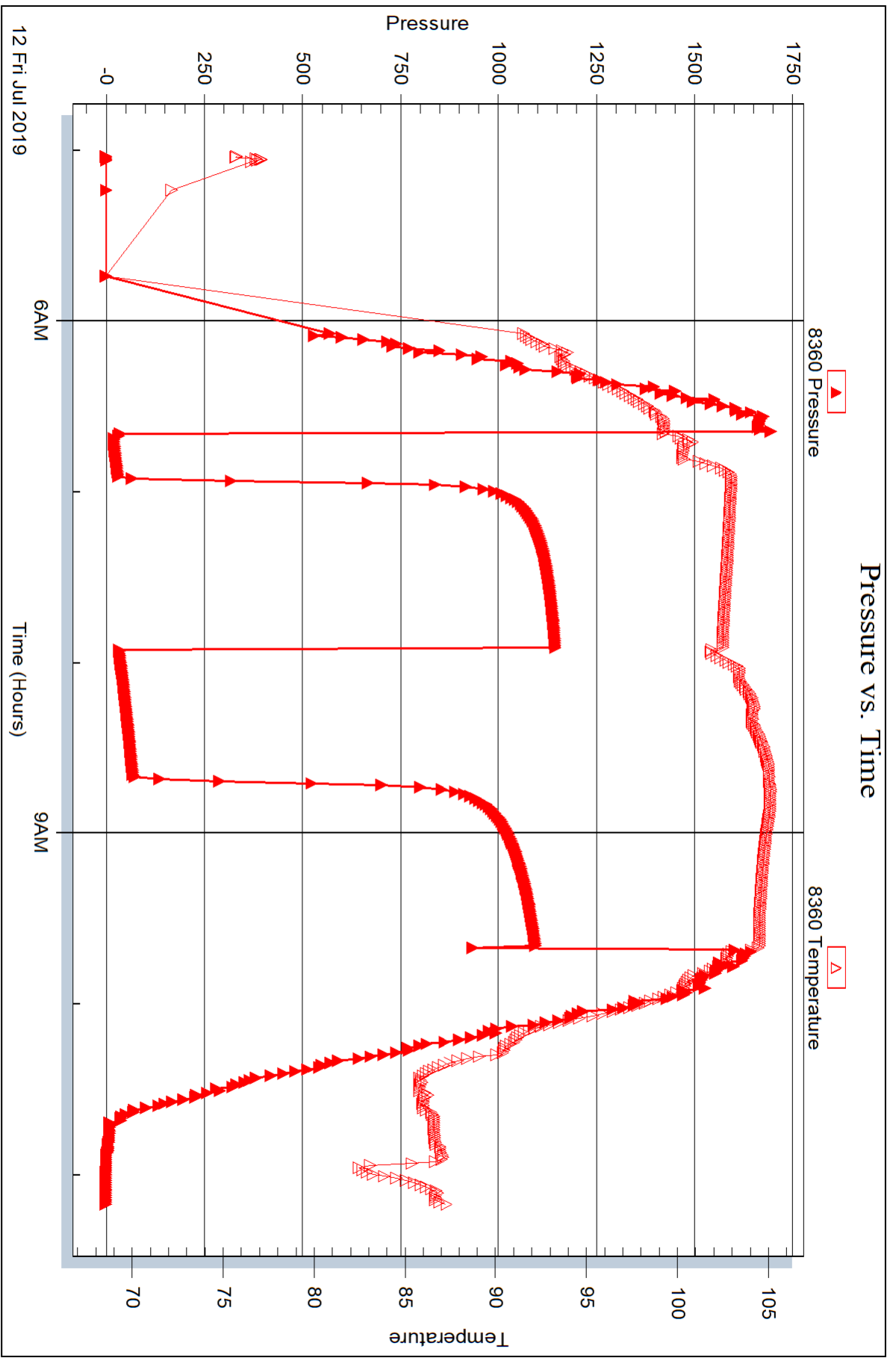
Serial #: 8360

Inside

Anchor Bay Petroleum LLC

Slimmer #1

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Anchor Bay Petroleum LLC.**

1952 Victoria Rd
Hays KS 67601

ATTN: Ed Glassman

Slimmer #1

2-11S-17W Ellis,KS

Start Date: 2019.07.12 @ 19:04:00

End Date: 2019.07.12 @ 23:43:00

Job Ticket #: 65946 DST #: 4

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

Printed: 2019.07.16 @ 16:27:12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Anchor Bay Petroleum LLC.

2-11S-17W Ellis,KS

1952 Victoria Rd
Hays KS 67601

Slimmer #1

Job Ticket: 65946

DST#: 4

ATTN: Ed Glassman

Test Start: 2019.07.12 @ 19:04:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:50:45

Time Test Ended: 23:43:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 77

Interval: 3469.00 ft (KB) To 3495.00 ft (KB) (TVD)

Reference Elevations: 1908.00 ft (KB)

Total Depth: 3495.00 ft (KB) (TVD)

1903.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8671 Outside

Press@RunDepth: 706.15 psig @ 3470.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.07.12 End Date: 2019.07.12

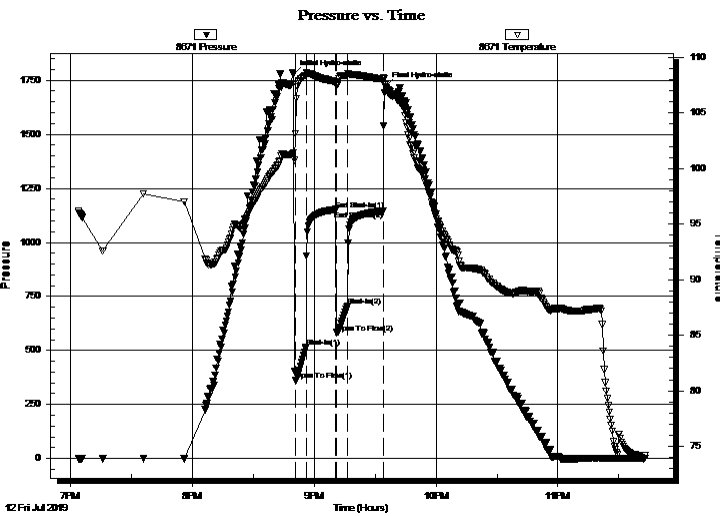
Last Calib.: 2019.07.12

Start Time: 19:04:05 End Time: 23:42:59

Time On Btm: 2019.07.12 @ 20:50:00

Time Off Btm: 2019.07.12 @ 21:35:15

TEST COMMENT: 5 - IFP - Surface blow built to BOB in 1 min.
15 - ISI - No Return
5 - FFP - Surface blow built to BOB in 1 min.
15 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1776.73	101.41	Initial Hydro-static
1	360.49	103.11	Open To Flow (1)
6	515.94	108.35	Shut-In(1)
21	1152.50	107.77	End Shut-In(1)
22	582.97	107.50	Open To Flow (2)
27	706.15	108.34	Shut-In(2)
44	1145.65	108.04	End Shut-In(2)
46	1720.40	107.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
141.00	OSWM - Oil Spots - 15%w - 85%m	1.45
189.00	OSMW - Oil Spots - 45%m - 55%w	1.94
1008.00	OSMW - Oil Spots - 5%m - 95%w	10.34

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Anchor Bay Petroleum LLC.

2-11S-17W Ellis,KS

1952 Victoria Rd
Hays KS 67601

Slimmer #1

Job Ticket: 65946

DST#: 4

ATTN: Ed Glassman

Test Start: 2019.07.12 @ 19:04:00

Tool Information

Drill Pipe:	Length: 3458.79 ft	Diameter: 3.25 inches	Volume: 35.49 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 35.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.79 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3469.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3454.00	
Hydraulic tool	5.00			3459.00	
Packer	5.00			3464.00	20.00 Bottom Of Top Packer
Packer	5.00			3469.00	
Stubb	1.00			3470.00	
Recorder	0.00	8360	Inside	3470.00	
Recorder	0.00	8671	Outside	3470.00	
perforations	22.00			3492.00	
Bullnose	3.00			3495.00	26.00 Bottom Packers & Anchor
Total Tool Length:	46.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Anchor Bay Petroleum LLC.

2-11S-17W Ellis,KS

1952 Victoria Rd
Hays KS 67601

Slimmer #1

Job Ticket: 65946

DST#: 4

ATTN: Ed Glassman

Test Start: 2019.07.12 @ 19:04:00

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:

13000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
141.00	OSWM - Oil Spots - 15%w - 85%m	1.447
189.00	OSMW - Oil Spots - 45%m - 55%w	1.939
1008.00	OSMW - Oil Spots - 5%m - 95%w	10.343

Total Length: 1338.00 ft Total Volume: 13.729 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

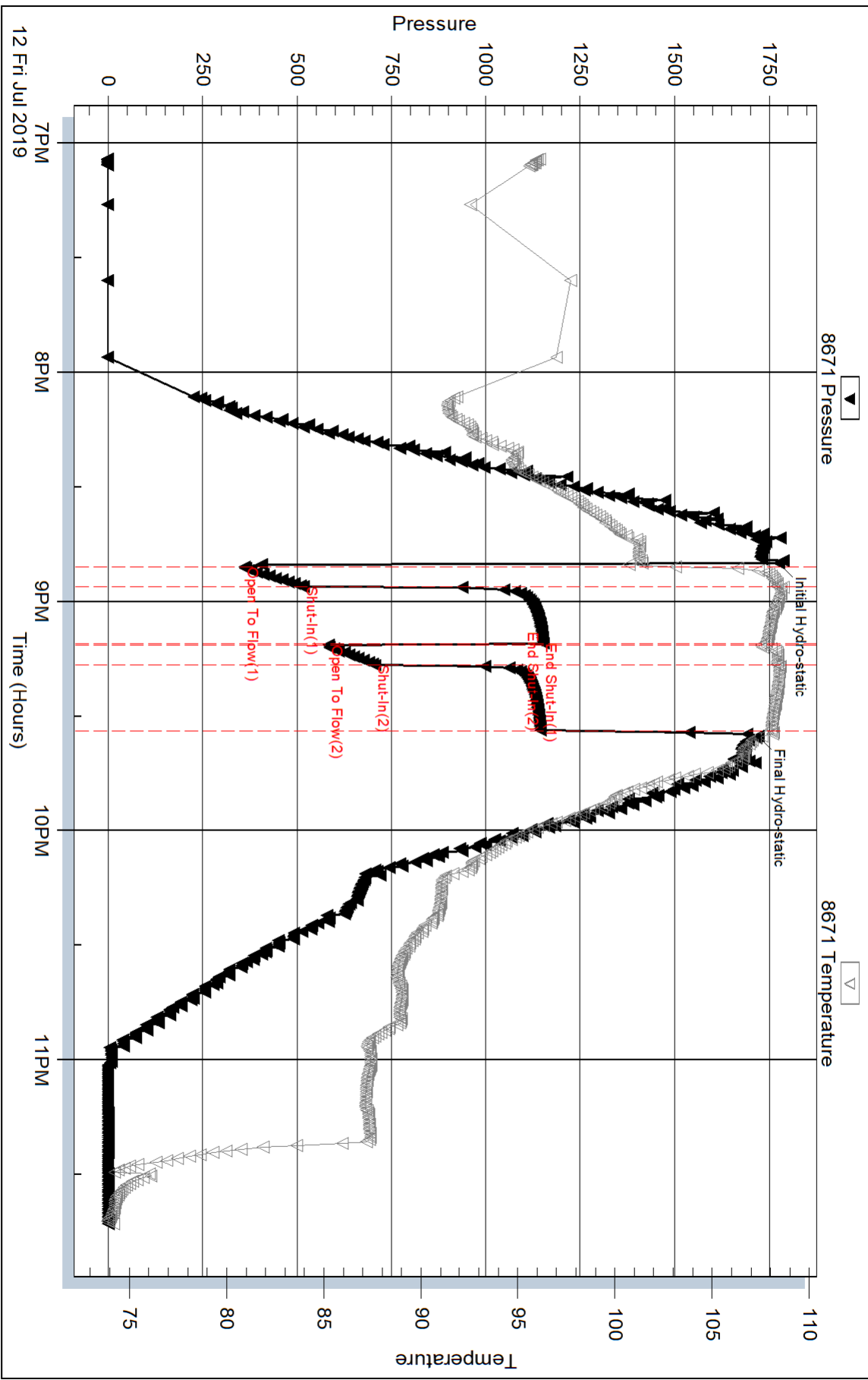
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .493 @ 77deg.

Pressure vs. Time



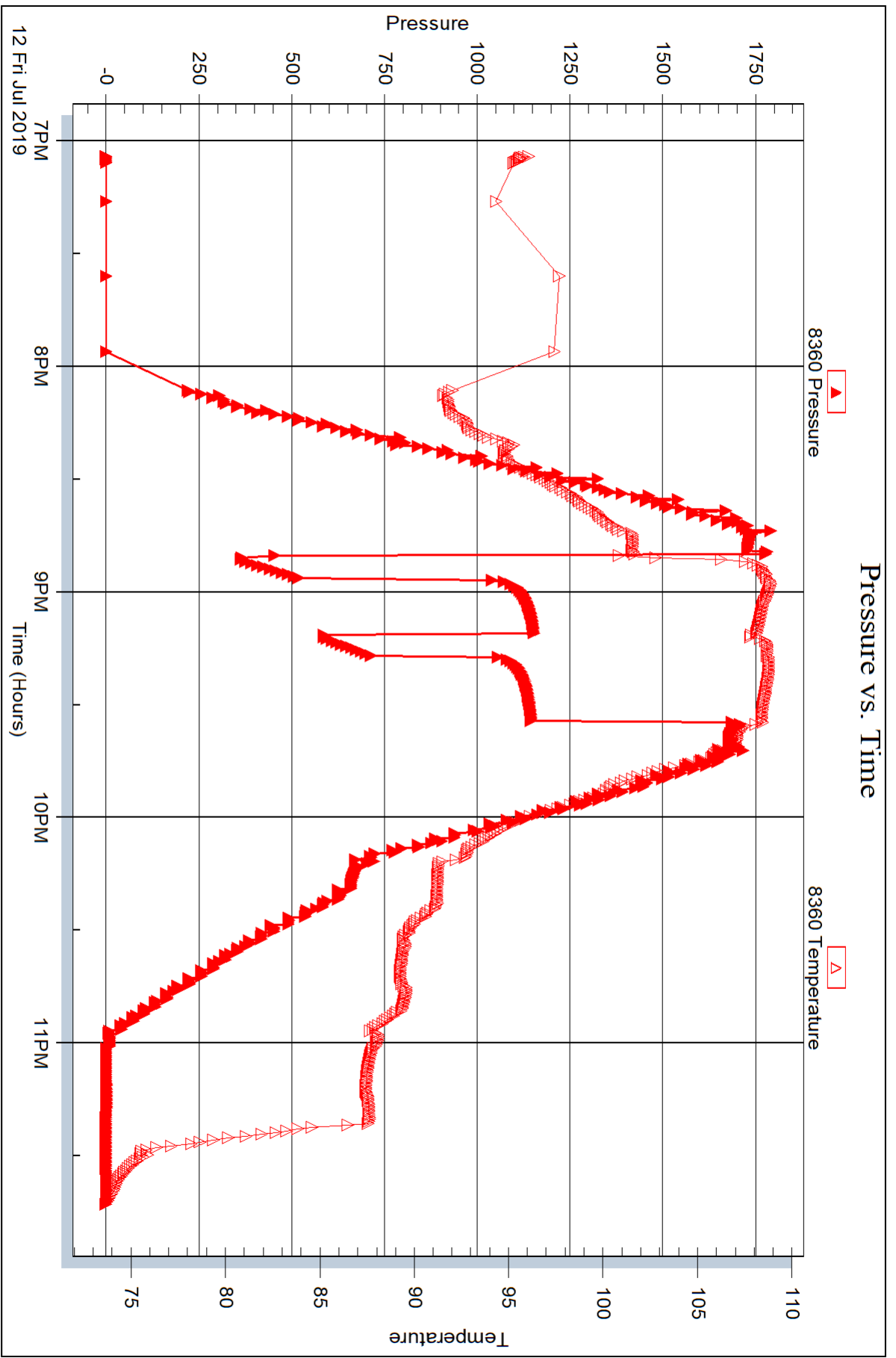
Serial #: 8360

Inside

Anchor Bay Petroleum LLC.

Slimmer #1

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 65946

Printed: 2019.07.16 @ 16:27:13



DRILL STEM TEST REPORT

Prepared For: **Anchor Bay Petroleum LLC.**

1952 Victoria Rd
Hays KS 67601

ATTN: Ed Glassman

Slimmer #1

2-11S-17W Ellis,KS

Start Date: 2019.07.13 @ 10:39:00

End Date: 2019.07.13 @ 19:29:00

Job Ticket #: 65947 DST #: 5

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

Printed: 2019.07.16 @ 16:24:14



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Anchor Bay Petroleum LLC.

2-11S-17W Ellis,KS

1952 Victoria Rd
Hays KS 67601

Slimmer #1

Job Ticket: 65947

DST#: 5

ATTN: Ed Glassman

Test Start: 2019.07.13 @ 10:39:00

GENERAL INFORMATION:

Formation: **Upper Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:24:30

Time Test Ended: 19:29:00

Test Type: Conventional Straddle (Initial)

Tester: Royal Fisher

Unit No: 77

Interval: 3072.00 ft (KB) To 3220.00 ft (KB) (TVD)

Reference Elevations: 1908.00 ft (KB)

Total Depth: 3536.00 ft (KB) (TVD)

1903.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8671 Outside

Press@RunDepth: 188.39 psig @ 3073.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.07.13

End Date: 2019.07.13

Last Calib.: 2019.07.13

Start Time: 10:39:05

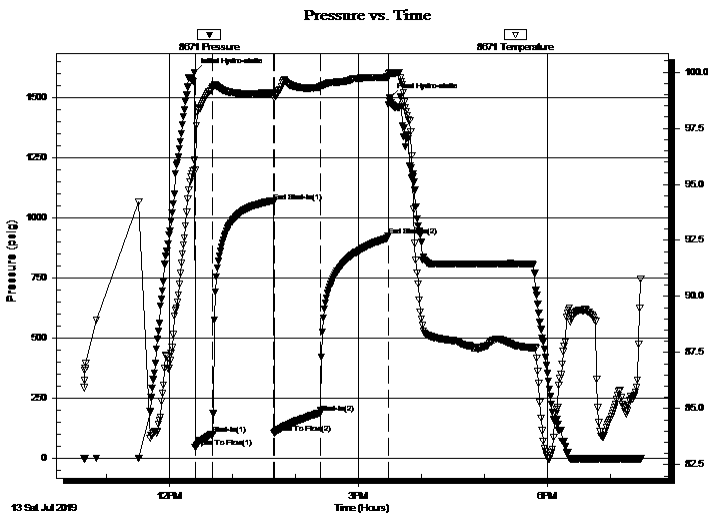
End Time: 19:29:00

Time On Btm: 2019.07.13 @ 12:24:00

Time Off Btm: 2019.07.13 @ 15:30:00

TEST COMMENT: 15 - IFP - Surface blow built to BOB in 8 mins.
60 - ISI - No Return
45 - FFP - Surface blow built to BOB in 18 mins.
60 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1602.92	96.09	Initial Hydro-static
1	45.57	95.63	Open To Flow (1)
18	101.66	99.30	Shut-In(1)
76	1064.19	99.08	End Shut-In(1)
76	105.13	98.82	Open To Flow (2)
120	188.39	99.33	Shut-In(2)
185	922.99	99.77	End Shut-In(2)
186	1496.87	99.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
123.00	OCWM - 10%o - 40%w - 50%m	1.26
126.00	OCWM - 5%o - 40%w - 55%m	1.29
126.00	GOCWM - 15%g - 5%o - 40%w - 40%m	1.29

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Anchor Bay Petroleum LLC.

2-11S-17W Ellis,KS

1952 Victoria Rd
Hays KS 67601

Slimmer #1

Job Ticket: 65947

DST#: 5

ATTN: Ed Glassman

Test Start: 2019.07.13 @ 10:39:00

Tool Information

Drill Pipe:	Length: 3078.00 ft	Diameter: 3.25 inches	Volume: 31.58 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 31.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3072.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	3541.00 ft			
Interval between Packers:	469.00 ft			
Tool Length:	489.00 ft			
Number of Packers:	3	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			3057.00	
Hydraulic tool	5.00			3062.00	
Packer	5.00		Inside	3067.00	20.00 Bottom Of Top Packer
Packer	5.00			3072.00	
Stubb	1.00			3073.00	
Recorder	0.00	8671	Outside	3073.00	
Recorder	0.00	8360	Inside	3073.00	
Perforations	14.00			3087.00	
Change Over Sub	1.00			3088.00	
Drill Pipe	127.00			3215.00	
Change Over Sub	1.00			3216.00	
Blank Off Sub	1.00			3217.00	
Stubb	3.00		Outside	3220.00	
Packer - Shale	5.00		Outside	3225.00	
Stubb	1.00			3226.00	
Perforations	25.00			3251.00	
Change Over Sub	1.00			3252.00	
Recorder	0.00	8678	Below	3252.00	
Drill Pipe	285.00		Below	3537.00	
Change Over Sub	1.00			3538.00	
Bullnose	3.00			3541.00	469.00 Bottom Packers & Anchor

Total Tool Length: 489.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Anchor Bay Petroleum LLC.

2-11S-17W Ellis,KS

1952 Victoria Rd
Hays KS 67601

Slimmer #1

Job Ticket: 65947

DST#: 5

ATTN: Ed Glassman

Test Start: 2019.07.13 @ 10:39:00

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
123.00	OCWM - 10%o - 40%w - 50%m	1.262
126.00	OCWM - 5%o - 40%w - 55%m	1.293
126.00	GOCWM - 15%g - 5%o - 40%w - 40%m	1.293

Total Length: 375.00 ft

Total Volume: 3.848 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

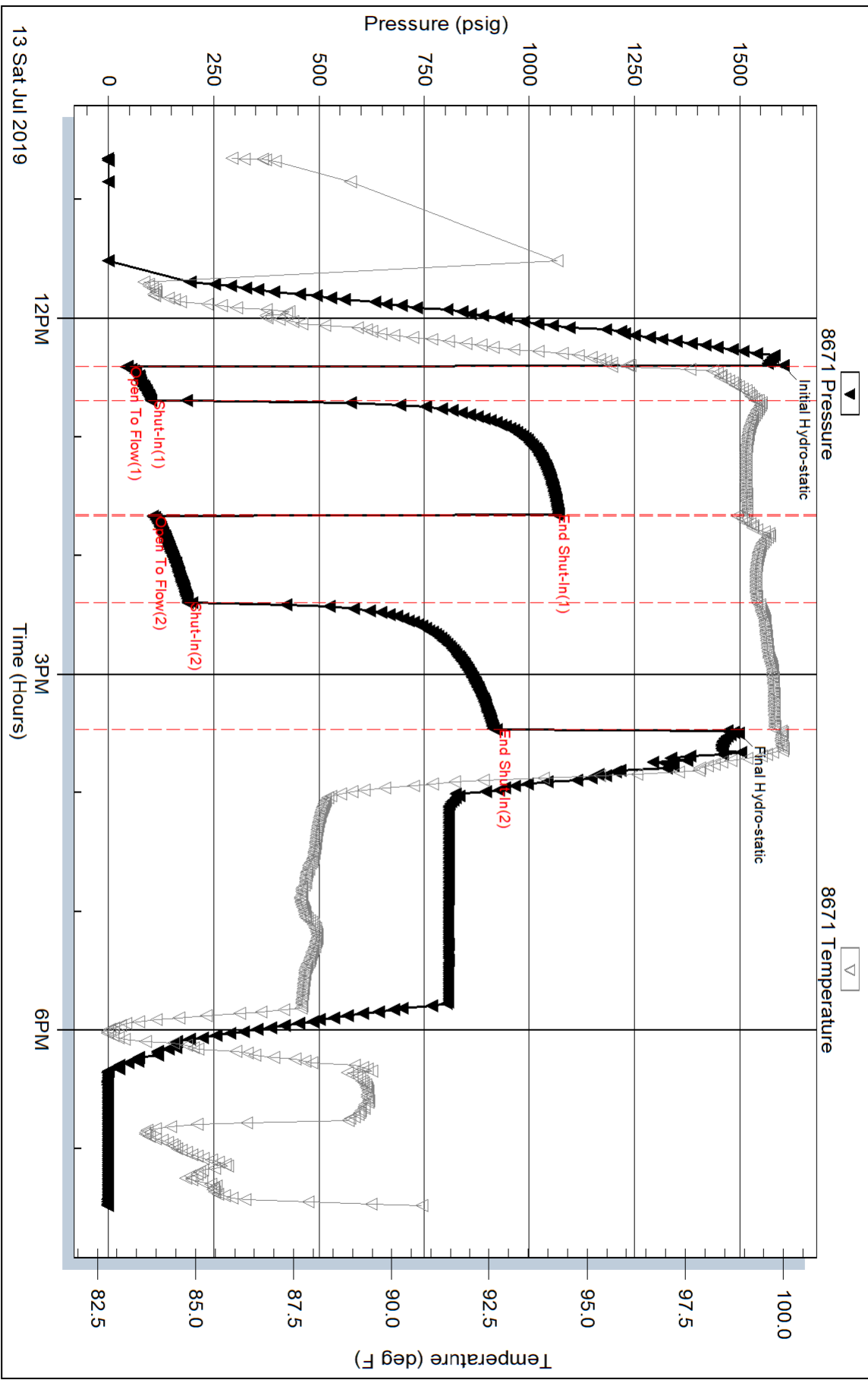
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



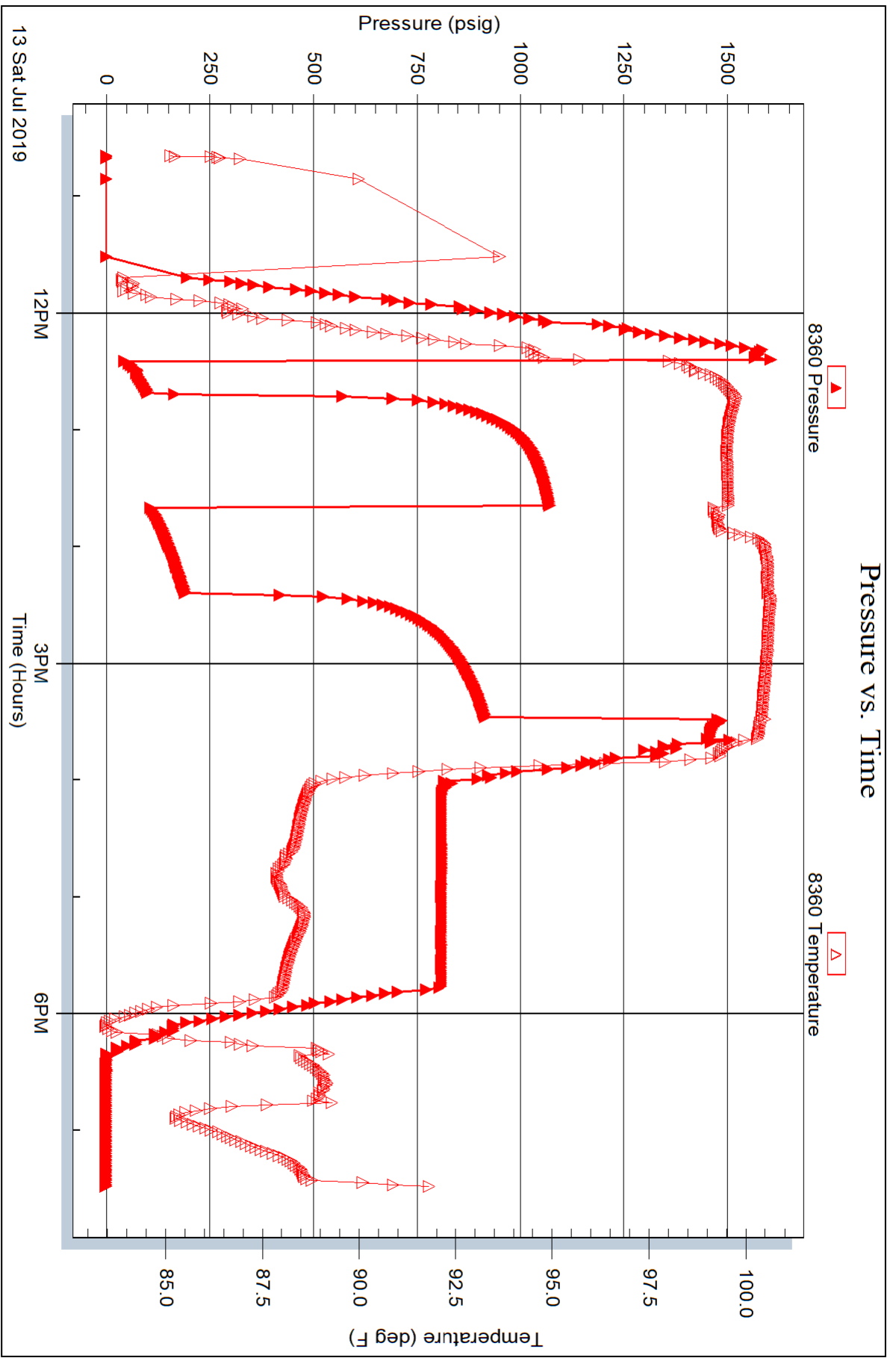
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Inside

Anchor Bay Petroleum LLC.

Slimmer #1

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 65947

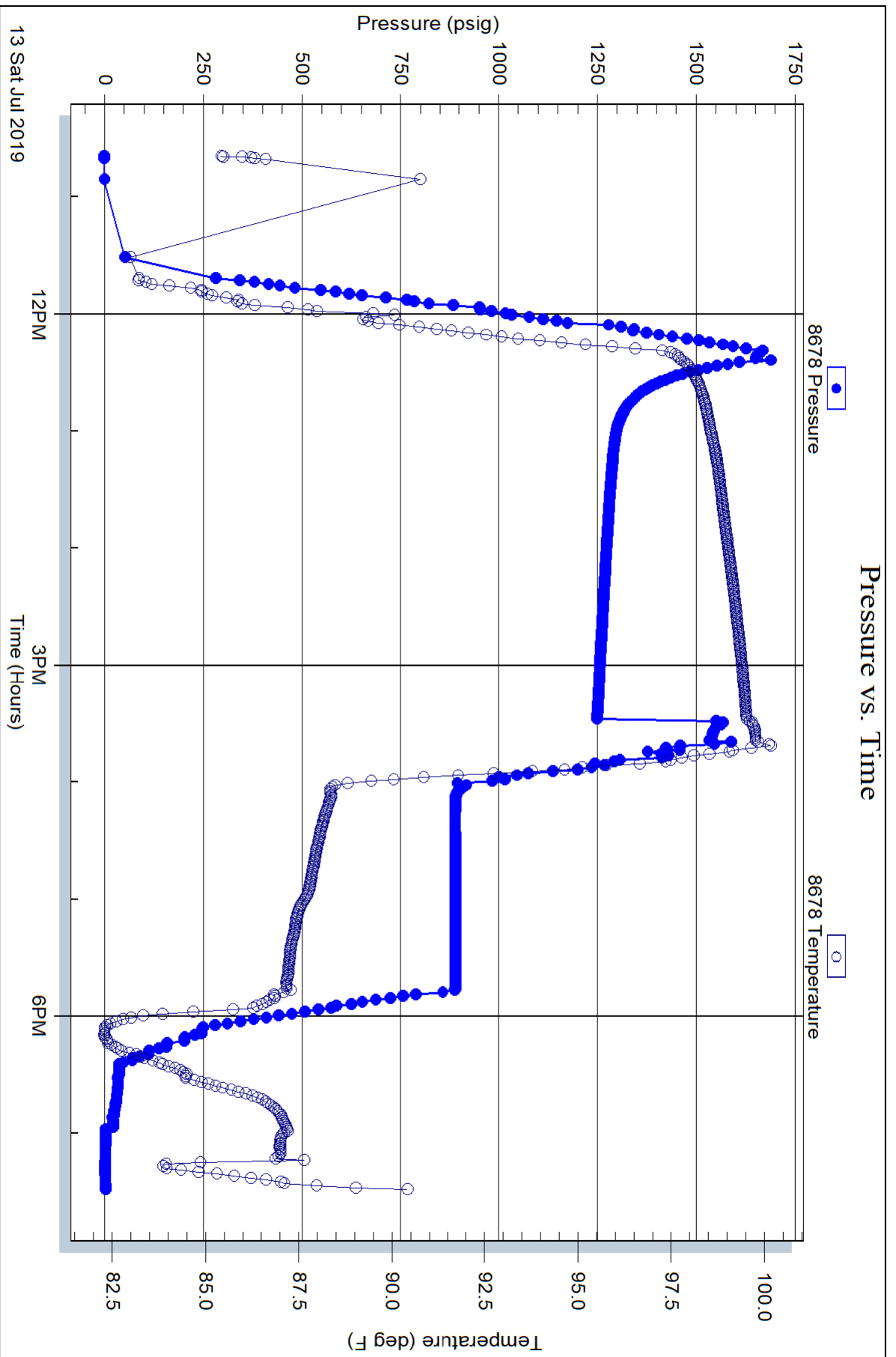
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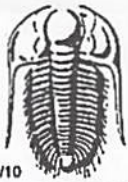
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Below (Stratfield) Bay Petroleum LLC

Slimmer #1

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 65943

NO.

Well Name & No. Slimmer #1 Test No. 1 Date 7-10-19
 Company Anchor Bay Petroleum Elevation 1908 KB 1903 GL
 Address 1952 Victoria Rd Hays Ks 67601
 Co. Rep / Geo. Ed Glassman Rig White Knight
 Location: Sec. 2 Twp 11S Rge. 17W Co. Ellis State Ks

Interval Tested 3034'-3051' Zone Tested Lower Tapeka
 Anchor Length 17 Drill Pipe Run 3046, 36 Mud Wt. 8.8
 Top Packer Depth 3029' Drill Collars Run 0 Vis 43
 Bottom Packer Depth 3034' Wt. Pipe Run 0 WL 6.0
 Total Depth 3051' Chlorides 3300 ppm System LCM 2#

Blow Description IFP - Surface blow slowly built up to 3/4"

ISI - No Return

FFP - Opened Tool Slushed surface blow built up slowly to 3/4"

EST - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20'</u>	<u>OSWM</u>	<u>spots</u>	<u>45</u>	<u>55</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 20' BHT 99°F Gravity _____ API RW 1646 @ 91 °F Chlorides 7,000 ppm

- (A) Initial Hydrostatic 1454
- (B) First Initial Flow 9
- (C) First Final Flow 15
- (D) Initial Shut-In 1063
- (E) Second Initial Flow 16
- (F) Second Final Flow 24
- (G) Final Shut-In 1050
- (H) Final Hydrostatic 1424

- Test 1200
- Jars _____
- Safety Joint _____
- Circ Sub _____
- Hourly Standby _____
- Mileage 48 B/T 48
- Sampler _____
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____
- Sub Total 1248

T-On Location 2:30pm
 T-Started 2:51pm
 T-Open 4:14pm
 T-Pulled 5:49pm
 T-Out 7:16pm

Comments _____
 EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1248

Initial Open 15
 Initial Shut-In 30
 Final Flow 15
 Final Shut-In 30

MP/DST Disc't _____

Approved By _____

Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 65944

NO.

Well Name & No. Slimmer #1 Test No. 2 Date 7-11-19
 Company Anchor Bay Petroleum Elevation 1908 KB 1903 GL
 Address 1952 Victoria Rd Hays Ks 67601
 Co. Rep / Geo. Ed Glessman Rig White Knight
 Location: Sec. 2 Twp 11S Rge. 17 W Co. Ellis State Ks

Interval Tested 3238' - 3340' Zone Tested Lansing H-K
 Anchor Length 102' Drill Pipe Run 3236.80' Mud Wt. 9.0
 Top Packer Depth 3233' Drill Collars Run 0 Vis 47
 Bottom Packer Depth 3238' Wt. Pipe Run 0 WL 6.0
 Total Depth 3340' Chlorides 3500 ppm System LCM 4#

Blow Description TFP - surface blow gradually built up to 4"
TSI - No Return

FFP - Surface blow slowly built to 1", flushed tool, blow built to 1 3/4" then died
FSI - No Return 1 to 1"

Rec	Feet of	%gas	%oil	%water	%mud
<u>58'</u>	<u>OCM</u>	<u>15</u>		<u>85</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

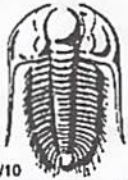
Rec Total 58' BHT 103°F Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 11641 Test 1200 T-On Location 2:30pm
 (B) First Initial Flow 27 Jars _____ T-Started 3:00pm
 (C) First Final Flow 32 Safety Joint _____ T-Open 4:52pm
 (D) Initial Shut-In 71 Circ Sub _____ T-Pulled 7:41pm
 (E) Second Initial Flow 30 Hourly Standby _____ T-Out 9:07pm
 (F) Second Final Flow 40 Mileage 48 BIT 48 Comments _____
 (G) Final Shut-In 62 Sampler _____
 (H) Final Hydrostatic 1564 Straddle _____

Initial Open 15 Shale Packer _____ EM Tool _____
 Initial Shut-In 60 Extra Packer _____ Ruined Shale Packer _____
 Final Flow 35 Extra Recorder _____ Ruined Packer _____
 Final Shut-In 60 Day Standby _____ Extra Copies _____
 Sub Total 1248 Accessibility _____ Sub Total 1248 Total 1248
 Sub Total _____ MP/DST Disc'l _____

Approved By _____ Our Representative Royal Swain

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 65945

NO.

Well Name & No. Slimaner #1 Test No. 3 Date 7-12-19
 Company Anchor Bay Petroleum Elevation 1908 KB 1903 GL
 Address 1952 Victoria Rd Hays ks 67601
 Co. Rep / Geo. Ed Glassman Rig White Knight
 Location: Sec. 2 Twp 11S Rge. 17W Co. Ellis State ks

Interval Tested 3337'-3401' Zone Tested Comm.
 Anchor Length 64' Drill Pipe Run 3331.94' Mud Wt. 9.0
 Top Packer Depth 3332' Drill Collars Run 0 Vis 47
 Bottom Packer Depth 3337' Wt. Pipe Run 0 WL 10.0
 Total Depth 3401 Chlorides 3500 ppm System LCM 4#

Blow Description IFP - Surface blow gradually built up to 4 1/4"
ISE - No Return
FFP - Surface blow steadily built up to 6 3/4"
FSI - No Return

Rec	Feet of	%gas	Spots	%oil	%water	%mud
<u>123</u>	<u>Qsmw</u>			<u>65</u>	<u>35</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 123' BHT 104°F Gravity _____ API RW 336 @ 93 °F Chlorides 15,000 ppm
 (A) Initial Hydrostatic 11093 Test 1200 T-On Location 4:45am
 (B) First Initial Flow 18 Jars _____ T-Started 5:02am
 (C) First Final Flow 33 Safety Joint _____ T-Open 6:39am
 (D) Initial Shut-In 1144 Circ Sub _____ T-Pulled 9:39am
 (E) Second Initial Flow 35 Hourly Standby _____ T-Out 11:10am
 (F) Second Final Flow 108 Mileage 48 R/T 48 Comments _____
 (G) Final Shut-In 1094 Sampler _____
 (H) Final Hydrostatic 11055 Straddle _____

Initial Open 15 Shale Packer _____ EM Tool _____
 Initial Shut-In 10 Extra Packer _____ Ruined Shale Packer _____
 Final Flow 45 Extra Recorder _____ Ruined Packer _____
 Final Shut-In 10 Day Standby _____ Extra Copies _____
 Sub Total 1248 Accessibility _____ Sub Total 0
 Total 1248 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 65947

NO.

Well Name & No. Slimmer #1 Test No. 5 Date 7-13-19
 Company Anchor Bay Petroleum Elevation 1908 KB 1903 GL
 Address 1952 Victoria Rd Hays Ks 67601
 Co. Rep / Geo. Ed Glassman Rig White Knight
 Location: Sec. 2 Twp 11S Rge. 17W Co. Ellis State Ks

Interval Tested 3072' - 3220' Zone Tested Upper Kansas City
 Anchor Length 148' Drill Pipe Run 3078 Mud Wt. 9.0
 Top Packer Depth 3067' Drill Collars Run 0 Vis 49
 Bottom Packer Depth 3072' Wt. Pipe Run 0 WL 6.8
 Total Depth 3536' Chlorides 4200 ppm System LCM 3#

Blow Description FFP - Surface blow built to B.O.B. in 8mins
~~IST - Surface built to B.O.B. in 18mins. No Return~~
FFP - Surface blow built to B.O.B. in 18mins
EST - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>123'</u>	<u>OCWM</u>	<u>10</u>	<u>40</u>	<u>50</u>	
<u>126'</u>	<u>OCWM</u>	<u>5</u>	<u>40</u>	<u>55</u>	
<u>126'</u>	<u>COCRM</u>	<u>15</u>	<u>5</u>	<u>40</u>	<u>40</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 375' BHT 100°F Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 11003 Test 1200 T-On Location 9:30am
 (B) First Initial Flow 46 Jars _____ T-Started 10:39am
 (C) First Final Flow 102 Safety Joint _____ T-Open 12:23pm
 (D) Initial Shut-In 1064 Circ Sub _____ T-Pulled 3:23pm
 (E) Second Initial Flow 105 Hourly Standby _____ T-Out 7:28pm
 (F) Second Final Flow 188 Mileage 48 R/T 48 Comments _____
 (G) Final Shut-In 923 Sampler _____
 (H) Final Hydrostatic 1497 Straddle 600 EM Tool _____

Initial Open 15 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 60 Extra Packer _____ Ruined Packer _____
 Final Flow 45 Extra Recorder 200 Extra Copies _____
 Final Shut-In 60 Day Standby _____ Sub Total 0
 Accessibility _____ Total 2048
 Sub Total 2048 MP/DST Disc't _____

Approved By _____ Our Representative Rayal J. [Signature]

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