



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

Revalo #3

7-15s-25w Trego,KS

Start Date: 2019.04.22 @ 21:29:11

End Date: 2019.04.23 @ 03:24:11

Job Ticket #: 65172 DST #: 1

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

Printed: 2019.04.25 @ 11:59:36



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum

7-15s-25w Trego, KS

4924 SE 84th St
New ton, KS 67114

Revalo #3

Job Ticket: 65172

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2019.04.22 @ 21:29:11

GENERAL INFORMATION:

Formation: **Lower LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:25:41

Time Test Ended: 03:24:11

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: **3802.00 ft (KB) To 3954.00 ft (KB) (TVD)**

Reference Elevations: 2344.00 ft (KB)

Total Depth: 3954.00 ft (KB) (TVD)

2339.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8166

Outside

Press@RunDepth: 63.50 psig @ 3803.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.22

End Date:

2019.04.23

Last Calib.: 2019.04.23

Start Time: 21:29:16

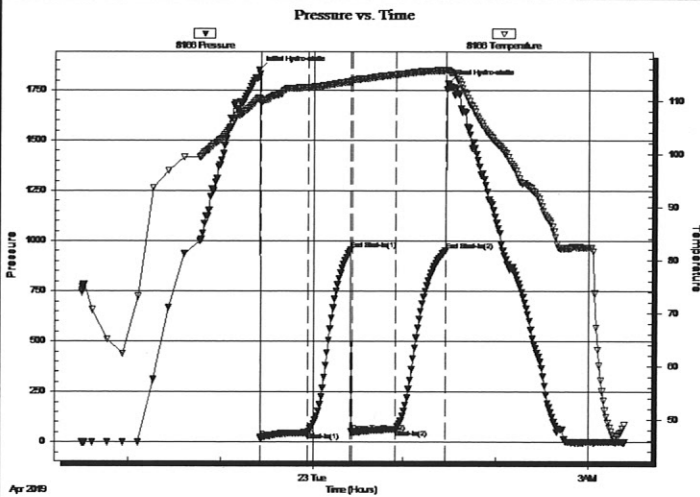
End Time:

03:24:10

Time On Btm: 2019.04.22 @ 23:24:41

Time Off Btm: 2019.04.23 @ 01:28:41

TEST COMMENT: IF: 1" blow built to 7".
IS: No return.
FF: 1/2" blow built to 9".
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1851.69	110.45	Initial Hydro-static
1	21.44	109.56	Open To Flow (1)
32	47.33	112.55	Shut-In(1)
60	955.50	113.63	End Shut-In(1)
61	46.98	113.76	Open To Flow (2)
90	63.50	114.94	Shut-In(2)
123	952.63	115.77	End Shut-In(2)
124	1784.48	115.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gocw m 10%g 40%o 10%w 40%m	0.30
60.00	ocm 10%o 90%m	0.30
1.00	free oil 100%o	0.01
0.00	126 GIP	0.00

Gas Rates

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



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DRILL STEM TEST REPORT

Palomino Petroleum

7-15s-25w Trego, KS

4924 SE 84th St
New ton, KS 67114

Reviso #3

Job Ticket: 65172

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2019.04.22 @ 21:29:11

GENERAL INFORMATION:

Formation: **Lower LKC**

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Time Tool Opened: 23:25:41

Time Test Ended: 03:24:11

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: **3802.00 ft (KB) To 3954.00 ft (KB) (TVD)**

Reference Elevations: 2344.00 ft (KB)

Total Depth: 3954.00 ft (KB) (TVD)

2339.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6651 Inside

Press@RunDepth: psig @ 3803.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.22

End Date:

2019.04.23

Last Calib.:

2019.04.23

Start Time: 21:29:58

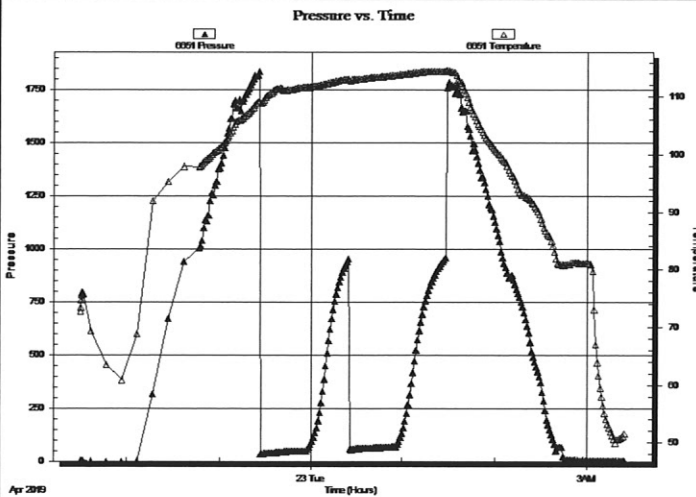
End Time:

03:24:52

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1" blow built to 7".
IS: No return.
FF: 1/2" blow built to 9".
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gocw m 10%g 40%o 10%w 40%m	0.30
60.00	ocm 10%o 90%m	0.30
1.00	free oil 100%o	0.01
0.00	126 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum

7-15s-25w Trego,KS

4924 SE 84th St
New ton, KS 67114

Revalo #3

Job Ticket: 65172

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2019.04.22 @ 21:29:11

Tool Information

Drill Pipe:	Length: 3670.00 ft	Diameter: 3.80 inches	Volume: 51.48 bbl	Tool Weight: 1500.00 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: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume: 52.07 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3802.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	152.00 ft			
Tool Length:	179.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3776.00	
Shut In Tool	5.00			3781.00	
Hydraulic tool	5.00			3786.00	
Jars	5.00			3791.00	
Safety Joint	2.00			3793.00	
Packer	5.00			3798.00	27.00 Bottom Of Top Packer
Packer	4.00			3802.00	
Stubb	1.00			3803.00	
Recorder	0.00	6651	Inside	3803.00	
Recorder	0.00	8166	Outside	3803.00	
Perforations	18.00			3821.00	
Change Over Sub	1.00			3822.00	
Drill Pipe	126.00			3948.00	
Change Over Sub	1.00			3949.00	
Bullnose	5.00			3954.00	152.00 Bottom Packers & Anchor
Total Tool Length:	179.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

7-15s-25w Trego, KS

4924 SE 84th St
New ton, KS 67114

Revalo #3

Job Ticket: 65172

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2019.04.22 @ 21:29:11

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	gocw m 10%g 40%o 10%w 40%m	0.295
60.00	ocm 10%o 90%m	0.304
1.00	free oil 100%o	0.014
0.00	126 GIP	0.000

Total Length: 121.00 ft

Total Volume: 0.613 bbl

Num Fluid Samples: 0

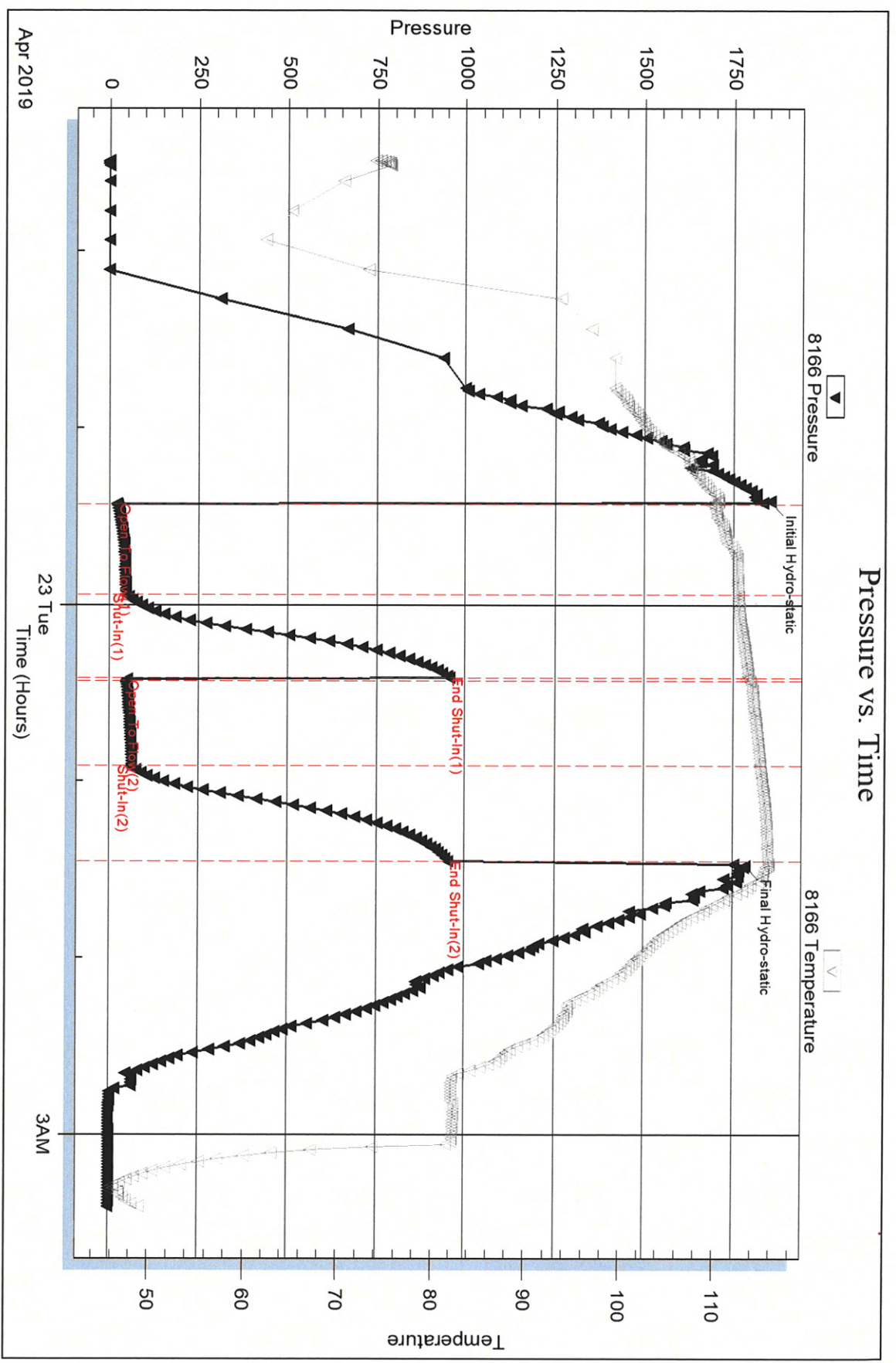
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



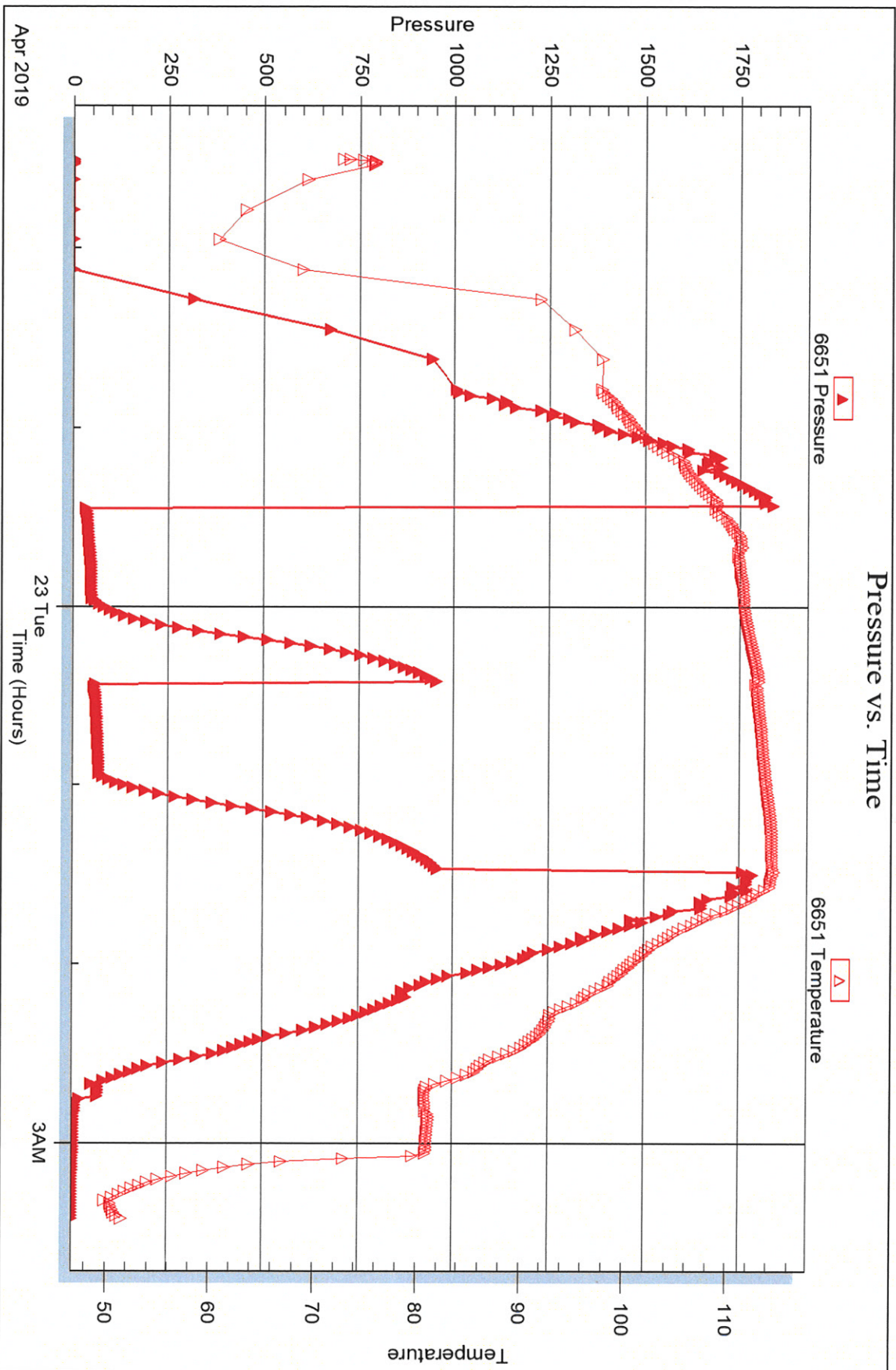
Serial #: 6651

Inside

Palomino Petroleum

Revilo #3

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65172

Printed: 2019.04.25 @ 11:59:37



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

Revalo #3

7-15s-25w Trego,KS

Start Date: 2019.04.24 @ 07:20:02

End Date: 2019.04.24 @ 13:59:32

Job Ticket #: 65173 DST #: 2

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

Printed: 2019.04.25 @ 11:59:10

Palomino Petroleum 7-15s-25w Trego,KS Revalo #3 DST # 2 MISS 2019.04.24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum
 4924 SE 84th St
 Newton, KS 67114
 ATTN: Andrew Stenzel

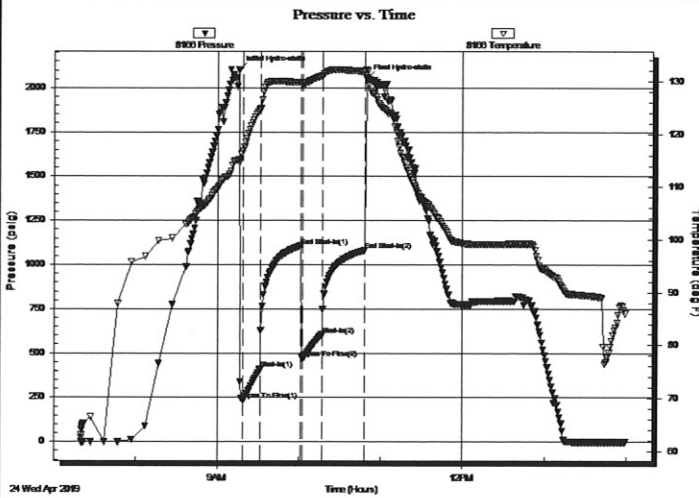
7-15s-25w Trego, KS
Revilo #3
 Job Ticket: 65173 **DST#: 2**
 Test Start: 2019.04.24 @ 07:20:02

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:19:02
 Time Test Ended: 13:59:32
 Interval: **4242.00 ft (KB) To 4283.00 ft (KB) (TVD)**
 Total Depth: 4283.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 2344.00 ft (KB)
 2339.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8166 Outside
 Press@RunDepth: 604.25 psig @ 4243.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.04.24 End Date: 2019.04.24 Last Calib.: 2019.04.24
 Start Time: 07:20:07 End Time: 13:59:31 Time On Btm: 2019.04.24 @ 09:16:32
 Time Off Btm: 2019.04.24 @ 10:49:02

TEST COMMENT: IF: BOB in 30 sec. 156"
 IS: BOB in 7 min. 30"
 FF: BOB in 1 min. 80"
 FS: BOB in 10 min. 13"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2101.71	115.19	Initial Hydro-static
3	237.37	116.85	Open To Flow (1)
15	408.18	124.73	Shut-In(1)
45	1106.00	129.82	End Shut-In(1)
46	468.87	129.57	Open To Flow (2)
60	604.25	131.08	Shut-In(2)
92	1080.97	131.87	End Shut-In(2)
93	2051.66	132.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
119.00	gocm 40%g 10%o 50%m	0.59
1539.00	go 10%g 90%o	21.59
0.00	1240 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum

7-15s-25w Trego, KS

4924 SE 84th St
New ton, KS 67114

Revalo #3

Job Ticket: 65173

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2019.04.24 @ 07:20:02

Tool Information

Drill Pipe:	Length: 4108.00 ft	Diameter: 3.80 inches	Volume: 57.62 bbl	Tool Weight: 1500.00 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: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 58.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4242.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4216.00	
Shut In Tool	5.00			4221.00	
Hydraulic tool	5.00			4226.00	
Jars	5.00			4231.00	
Safety Joint	2.00			4233.00	
Packer	5.00			4238.00	27.00 Bottom Of Top Packer
Packer	4.00			4242.00	
Stubb	1.00			4243.00	
Recorder	0.00	6651	Inside	4243.00	
Recorder	0.00	8166	Outside	4243.00	
Perforations	2.00			4245.00	
Change Over Sub	1.00			4246.00	
Drill Pipe	31.00			4277.00	
Change Over Sub	1.00			4278.00	
Bullnose	5.00			4283.00	41.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

7-15s-25w Trego, KS

4924 SE 84th St
New ton, KS 67114

Revalo #3

Job Ticket: 65173

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2019.04.24 @ 07:20:02

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:

0 ppm

Viscosity: 41.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
119.00	gocm 40%g 10%o 50%m	0.585
1539.00	go 10%g 90%o	21.588
0.00	1240 GIP	0.000

Total Length: 1658.00 ft Total Volume: 22.173 bbl

Num Fluid Samples: 0

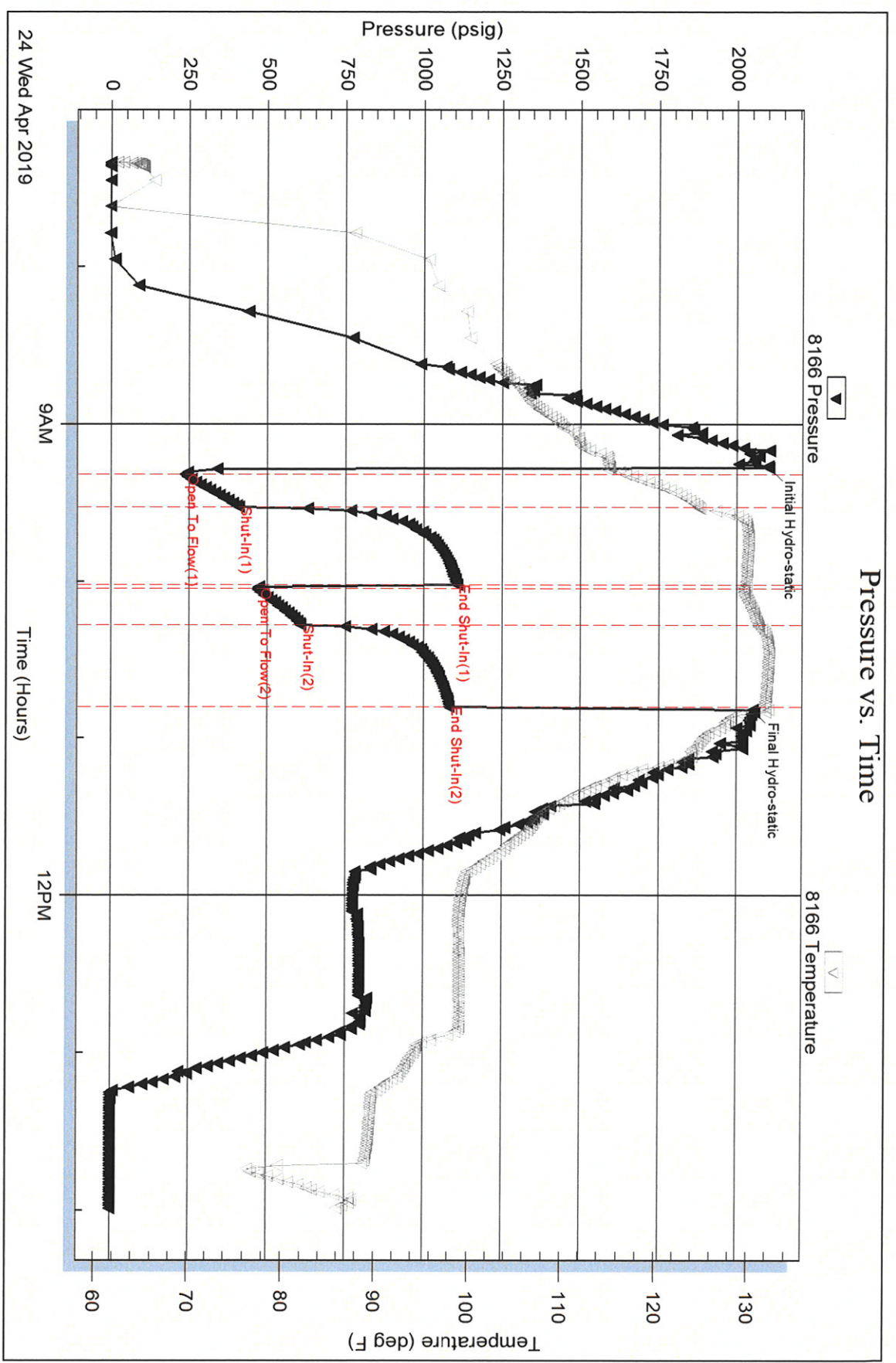
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 41@90=38



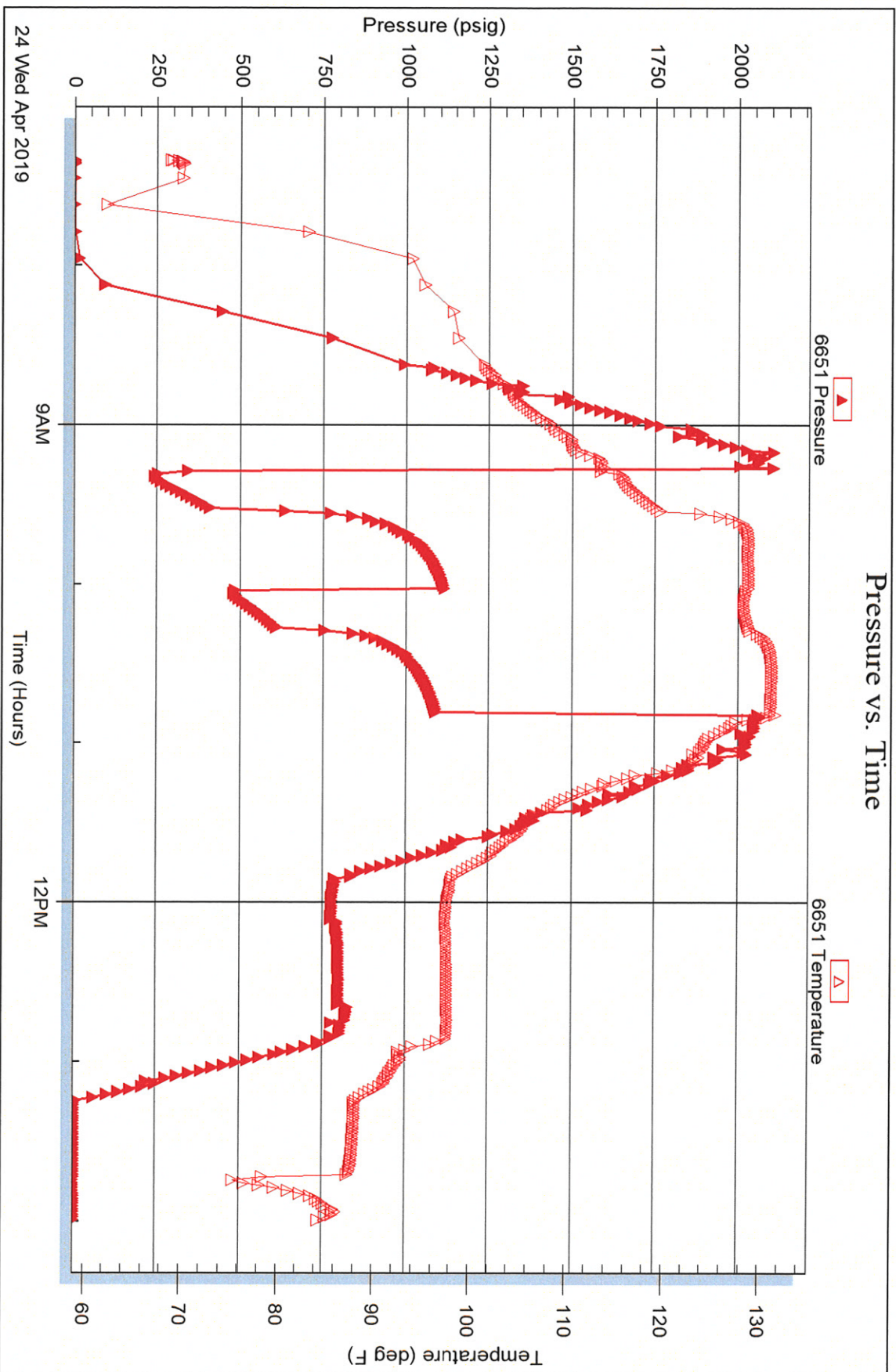
Serial #: 6651

Inside

Palomino Petroleum

Rev: #3

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65173

Printed: 2019.04.25 @ 11:59:11



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65172

Well Name & No. Revalo #3 Test No. 1 Date 4-22-19
 Company Palomino Petroleum Elevation 2344 KB 2339 GL
 Address 4924 SE 84th St Newton, KS 67114
 Co. Rep / Geo. Andrew Stenzel Rig WW #2
 Location: Sec. 7 Twp 15S Rge. 25W Co. Trego State KS

Interval Tested 3802 3954 Zone Tested Lower LKC
 Anchor Length 152 Drill Pipe Run 3670 Mud Wt. 8.9
 Top Packer Depth 3797 Drill Collars Run 119 Vis 44
 Bottom Packer Depth 3802 Wt. Pipe Run — WL 7.2
 Total Depth 3954 Chlorides 3500 ppm System LCM 1
 Blow Description IF: 1" blow built to 7"
IS: No return.
FF: 1/2 blow built to 9"
FS: No return.

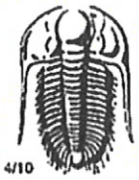
Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Free oil</u>	<u>100</u>			
<u>60</u>	<u>ocm</u>	<u>10</u>		<u>90</u>	
<u>60</u>	<u>gocwm</u>	<u>10</u>	<u>40</u>	<u>10</u>	<u>40</u>
	<u>126 GIP</u>				
<u>121</u>	<u>BHT 115</u>				

Rec Total 121 BHT 115 Gravity — API RW — @ —° F Chlorides — ppm

(A) Initial Hydrostatic 1851 Test 1200 T-On Location 19:20
 (B) First Initial Flow 21 Jars 250 T-Started 21:29
 (C) First Final Flow 47 Safety Joint 75 T-Open 23:25
 (D) Initial Shut-In 955 Circ Sub NIL T-Pulled 1:25
 (E) Second Initial Flow 46 Hourly Standby _____ T-Out 3:27
 (F) Second Final Flow 63 Mileage 124 124 Comments on the bank
 (G) Final Shut-In 952 Sampler _____ 20:30
 (H) Final Hydrostatic 1784 Straddle _____

Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 30 Extra Packer _____ Ruined Packer _____
 Final Flow 30 Extra Recorder _____ Extra Copies _____
 Final Shut-In 30 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1649
 Sub Total 1649 MP/DST-Disc't _____

Approved By [Signature] Our Representative [Signature]
 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.



TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65173**

Well Name & No. ReVilo #3 Test No. 2 Date 4-24-19
 Company Palomin Petroleum Elevation 2344 KB 2379 GL
 Address _____
 Co. Rep / Geo. Andrew Stenzel Rig WW#2
 Location: Sec. 7 Twp 15S Rge. 25W Co. Trego State KS

Interval Tested 4242 4283 Zone Tested M.55
 Anchor Length _____ Drill Pipe Run 4108 Mud Wt. 9.1
 Top Packer Depth _____ Drill Collars Run 119 Vis 41
 Bottom Packer Depth 4242 Wt. Pipe Run _____ WL 7.2
 Total Depth 4283 Chlorides 6500 ppm System LCM 1

Blow Description IF: BoB in 30 sec. 156"
IS: BoB in 7 min. 30"
FF: BoB in 1 min. 80"
FS: BoB in 10 min. 13"

Rec	Feet of	%gas	%oil	%water	%mud
<u>1539</u>	<u>90</u>	<u>10</u>	<u>90</u>		
<u>119</u>	<u>90cm</u>	<u>40</u>	<u>10</u>	<u>50</u>	
<u>1240</u>	<u>GIP</u>				

Rec Total ~~1658~~ 131 BHT 131 Gravity 38 API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 2101 Test 1300 T-On Location 6:55
 (B) First Initial Flow 237 Jars 250 T-Started 7:20
 (C) First Final Flow 408 Safety Joint 75 T-Open 9:17
 (D) Initial Shut-In 1106 Circ Sub 50.00 T-Pulled 10:47
 (E) Second Initial Flow 468 Hourly Standby _____ T-Out 14:01
 (F) Second Final Flow 604 Mileage 124-X2 124+124 Comments _____
 (G) Final Shut-In 1080 Sampler _____
 (H) Final Hydrostatic 2051 Straddle _____ EM Tool _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____

Initial Open 15
 Initial Shut-In 30
 Final Flow 15
 Final Shut-In 30
 Sub Total 0
 Total 1923
 Sub Total 1923
 MP/DST Disc't _____

Approved By And Byst Our Representative [Signature]

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