



QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone:785-324-1041 fax:785-483-1087
 Email: cementing@ruraltel.net

Date: 5/27/2015
 Invoice # 944

P.O.#:
 Due Date: 6/26/2015
 Division: Russell

RECEIVED
 JUN 01 2015

Invoice

Contact:
 Palomino Petroleum Inc
Address/Job Location:
 Palomino Petroleum Inc
 4924 SE 84th
 Newton Ks 67114

Reference:
 RATLIFF-METHODIST 1

Description of Work:
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 628.31	No				
Common-Class A	120	\$ 1,712.63	Yes				
Calcium Chloride	6	\$ 287.12	Yes				
Pump Truck Mileage-Job to Nearest Camp	54	\$ 255.35	No				
POZ Mix-Standard	30	\$ 180.55	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	54	\$ 162.49	No				
Bulk Truck Matl-Material Service Charge	159	\$ 136.70	No				
Premium Gel (Bentonite)	3	\$ 41.99	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 3,405.15
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (85.13)

SubTotal for Taxable Items:	\$ 2,166.74
SubTotal for Non-Taxable Items:	\$ 1,153.28
Total:	\$ 3,320.02
Tax:	\$ 133.25

6.15% Rooks County Sales Tax

Thank You For Your Business!

Amount Due: \$ 3,453.27
Applied Payments:
Balance Due: \$ 3,453.27

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 944

Date	5-27-15	Sec.	15	Twp.	07	Range	20	County	Rooks	State	KS	On Location		Finish	7:30 PM	
Location								Damar N to 24 HWY 3 N 2 3/4 E Nint								
Lease	Ratliff-Methodist				Well No.	#1				Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Contractor	WV #6								Charge To Palamino Petroleum							
Type Job	Surface								Street							
Hole Size	12' 1/4				T.D.	217'				City						
Csg.	8 5/8				Depth	217				State						
Tbg. Size					Depth					The above was done to satisfaction and supervision of owner agent or contractor.						
Tool					Depth					Cement Amount Ordered 150 #1/20 3% cc 2% Gel						
Cement Left in Csg.					Shoe Joint					Meas Line Displace 12 3/4						
EQUIPMENT													Common 120			
Pumptrk	18	No.	Cementer				Helper		Cody		Poz. Mix		30			
Bulktrk	9	No.	Driver				Driver		Billy		Gel.		3			
Bulktrk	PU	No.	Driver				Driver		PU		Calcium		6			
JOB SERVICES & REMARKS													Hulls			
Remarks:													Salt			
Rat Hole													Flowseal			
Mouse Hole													Kol-Seal			
Centralizers													Mud CLR 48			
Baskets													CFL-117 or CD110 CAF 38			
D/V or Port Collar													Sand			
													Handling 159			
													Mileage			
Cement													FLOAT EQUIPMENT			
													Guide Shoe			
													Centralizer			
													Baskets			
													AFU Inserts			
													Float Shoe			
													Latch Down			
													Pumptrk Charge Surface			
													Mileage Surface 54			
													Tax			
													Discount			
													Total Charge			
Signature Mcal Bsa																

Circulated!!

Quality Oilwell Cementing



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone:785-324-1041 fax:785-483-1087
 Email: cementing@ruraltel.net

Date: 6/3/2015
 Invoice # 1421
 P.O.#:
 Due Date: 7/3/2015
 Division: Russell

RECEIVED
 JUN 08 2015

Invoice

Contact:
 Palomino Petroleum Inc
Address/Job Location:
 Palomino Petroleum Inc
 4924 SE 84th
 Newton Ks 67114

Reference:
 RATLIFF-METHODIST 1

Description of Work:
 PLUG JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 606.13	Yes				
Common-Class A	174	\$ 2,395.67	Yes				
POZ Mix-Standard	116	\$ 673.48	Yes				
Bulk Truck Matl-Material Service Charge	300	\$ 248.82	Yes				
Pump Truck Mileage-Job to Nearest Camp	48	\$ 218.96	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	48	\$ 139.34	Yes				
Premium Gel (Bentonite)	10	\$ 135.03	Yes				
Flo Seal	72	\$ 119.44	Yes				
Dry Hole Plug	1	\$ 46.45	Yes				

Invoice Terms:

Net 30

	<i>SubTotal:</i>	\$ 4,583.33
	<i>Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:</i>	\$ (114.58)
<hr/>		
	SubTotal for Taxable Items:	\$ 4,468.75
	SubTotal for Non-Taxable Items:	\$ -
<hr/>		
	Total:	\$ 4,468.75
	Tax:	\$ 274.83
	Amount Due:	\$ 4,743.58
	Applied Payments:	
	Balance Due:	\$ 4,743.58

6.15% Rooks County Sales Tax

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

QUALITY OILWELL CEMENTING, INC.

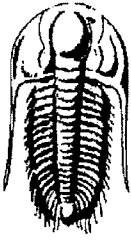
Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1421

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-3-15	15	7	20	Rooks	KS		9:00 PM
Lease <u>Ratliff-Methodist</u>				Well No. <u>1</u>		Owner <u>Nn2</u>	
Contractor <u>W W 6</u>				To Quality Oilwell Cementing, Inc.			
Type Job <u>Plug</u>				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size		T.D.		Charge To <u>Palomina petroleum</u>			
Csg.		Depth		Street			
Tbg. Size		Depth		City		State	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered <u>290 sx 60/40, 4%, 1/4# F10</u>			
Meas Line		Displace					
EQUIPMENT				Common <u>174</u>			
Pumptrk <u>17</u>	No.	Cementer		Poz. Mix <u>116</u>			
		Helper <u>Lonnie</u>		Gel. <u>10</u>			
Bulktrk <u>21</u>	No.	Driver		Calcium			
		Driver <u>Chad</u>		Hulls			
Bulktrk <u>PU</u>	No.	Driver		Salt			
		Driver <u>Travis</u>		Flowseal <u>72#</u>			
JOB SERVICES & REMARKS				Kol-Seal			
Remarks:				Mud CLR 48			
Rat Hole				CFL-117 or CD110 CAF 38			
Mouse Hole				Sand			
Centralizers				Handling <u>300</u>			
Baskets				Mileage			
D/V or Port Collar				FLOAT EQUIPMENT			
<u>50 sx at 3452</u>				Guide Shoe			
<u>50 sx at 1590</u>				Centralizer			
<u>100 sx at 920</u>				Baskets			
<u>50 sx at 270</u>				AFU Inserts			
<u>10 sx at 40 with plug</u>				Float Shoe			
<u>30 sx Rat</u>				Latch Down			
				Pumptrk Charge <u>plug</u>			
				Mileage <u>54 / 48</u>			
				Tax			
				Discount			
				Total Charge			
X Signature <u>Macl Bgse</u>							



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62341

DST#: 1

ATTN: Ryan Seib

Test Start: 2015.05.30 @ 13:35:00

GENERAL INFORMATION:

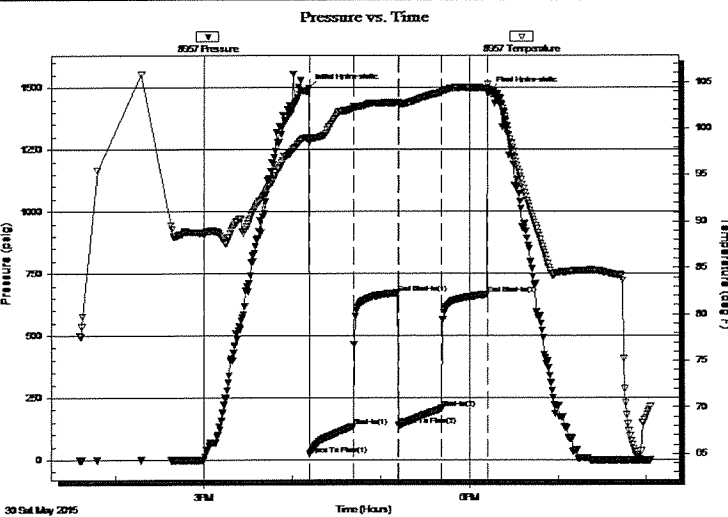
Formation: **Topeka**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 16:11:45 Tester: Brett Dickinson
 Time Test Ended: 20:03:15 Unit No: 81
 Interval: **3120.00 ft (KB) To 3180.00 ft (KB) (TVD)** Reference Elevations: 2021.00 ft (KB)
 Total Depth: 3180.00 ft (KB) (TVD) 2016.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8957

Outside

Press@RunDepth: 205.87 psig @ 3177.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.05.30 End Date: 2015.05.30 Last Calib.: 2015.05.30
 Start Time: 13:35:05 End Time: 20:03:14 Time On Btm: 2015.05.30 @ 16:11:00
 Time Off Btm: 2015.05.30 @ 18:13:45

TEST COMMENT: IF-BOB in 17min
 ISI-No blow
 FF-6in blow
 FSI-No blow



PRESSURE SUMMARY

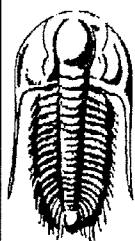
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1498.43	99.06	Initial Hydro-static
1	22.06	98.48	Open To Flow (1)
31	135.26	102.12	Shut-In(1)
61	672.13	102.76	End Shut-In(1)
61	137.53	102.52	Open To Flow (2)
90	205.87	103.88	Shut-In(2)
121	665.37	104.31	End Shut-In(2)
123	1486.59	103.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	SMCW 80%W 20%M	1.71
170.00	OS WCM 35%W 65%M	2.38

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62341

DST#: 1

ATTN: Ryan Seib

Test Start: 2015.05.30 @ 13:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil APt:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	SMCW 80%W 20%M	1.712
170.00	OS WCM 35%W 65%M	2.385

Total Length: 370.00 ft

Total Volume: 4.097 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8957

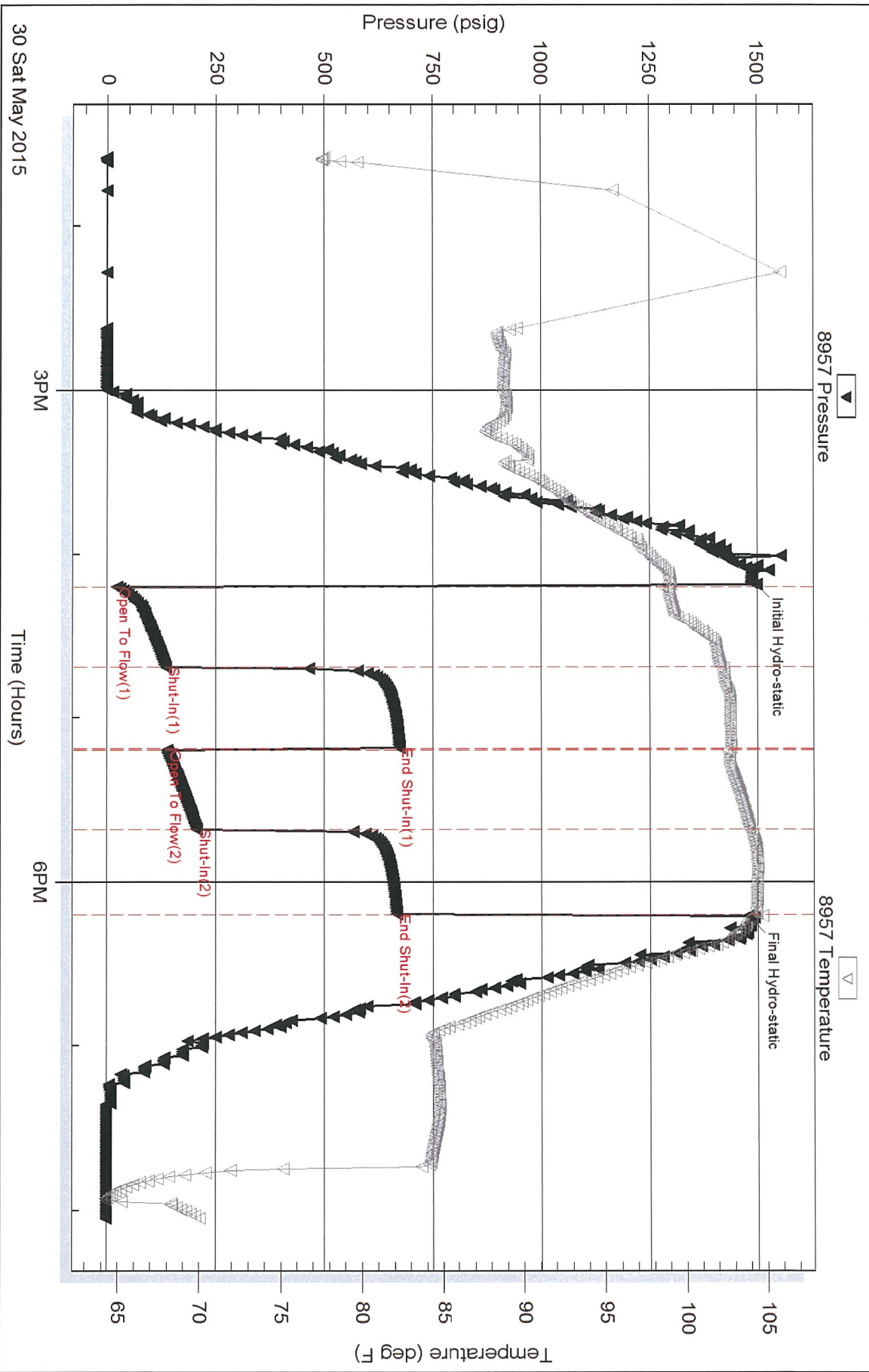
Outside

Palomino Petroleum, Inc.

Ratiff-Methodist #1

DST Test Number: 1

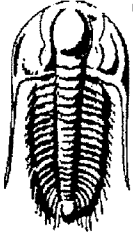
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 62341

Printed: 2015.05.30 @ 22:48:30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62342

DST#: 2

ATTN: Ryan Seib

Test Start: 2015.05.31 @ 04:45:00

GENERAL INFORMATION:

Formation: **Toronto-KC"A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:55:30

Time Test Ended: 10:20:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 81

Interval: **3188.00 ft (KB) To 3250.00 ft (KB) (TVD)**

Reference Elevations: 2021.00 ft (KB)

Total Depth: 3250.00 ft (KB) (TVD)

2016.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8957

Outside

Press@RunDepth: 26.43 psig @ 3247.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.31

End Date:

2015.05.31

Last Calib.: 2015.05.31

Start Time: 04:45:05

End Time:

10:19:59

Time On Btm: 2015.05.31 @ 06:54:45

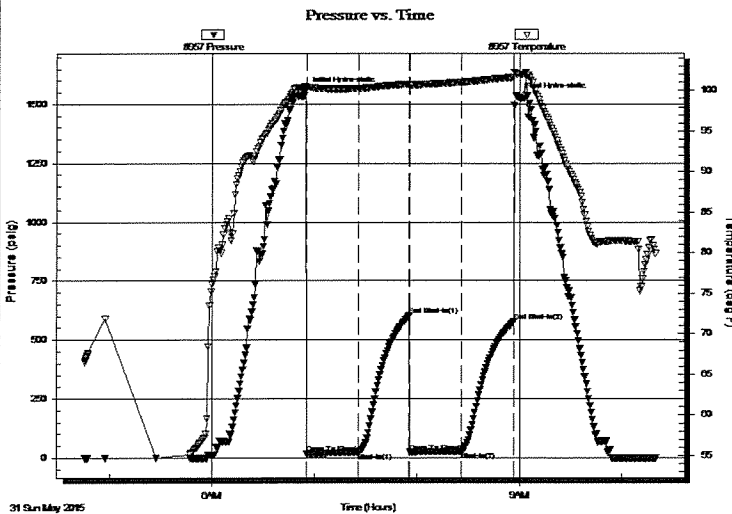
Time Off Btm: 2015.05.31 @ 08:59:15

TEST COMMENT: IF-1/4in blow

ISI-No blow

FF-No blow

FSL-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1553.77	100.53	Initial Hydro-static
1	18.13	100.37	Open To Flow (1)
31	22.01	100.28	Shut-In(1)
61	602.41	100.81	End Shut-In(1)
62	23.21	100.59	Open To Flow (2)
91	26.43	101.05	Shut-In(2)
122	577.50	101.62	End Shut-In(2)
125	1529.23	102.05	Final Hydro-static

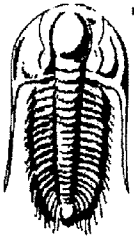
Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62342

DST#: 2

ATTN: Ryan Seib

Test Start: 2015.05.31 @ 04:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 6.39 in³

Resistivity: ohm.m

Salinity: 1100.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

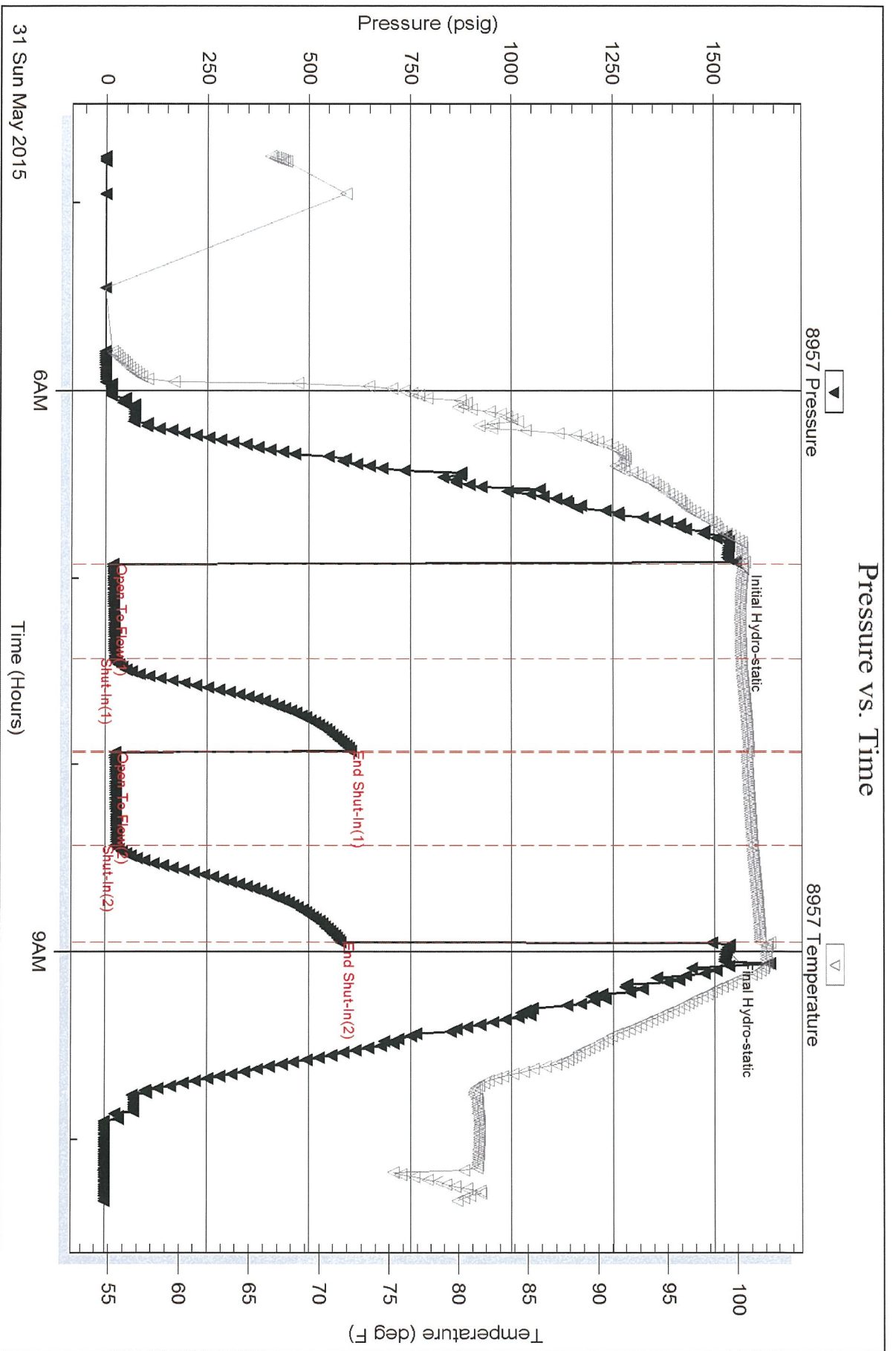
Num Gas Bombs: 0

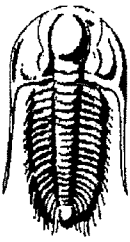
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62343

DST#: 3

ATTN: Ryan Seib

Test Start: 2015.05.31 @ 22:05:00

GENERAL INFORMATION:

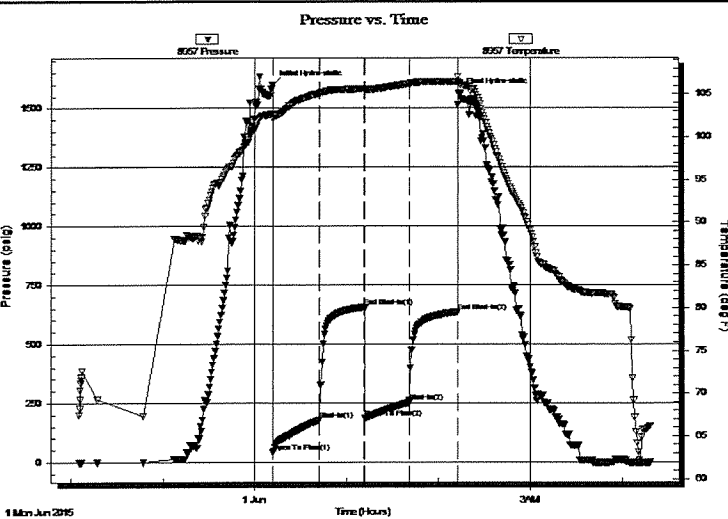
Formation: **KC "B-F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:12:15
 Time Test Ended: 04:18:15
 Interval: **3247.00 ft (KB) To 3330.00 ft (KB) (TVD)**
 Total Depth: 3330.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brett Dickinson
 Unit No: 81
 Reference Elevations: 2021.00 ft (KB)
 2016.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8957

Outside

Press@RunDepth: 252.63 psig @ 3327.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.05.31 End Date: 2015.06.01 Last Calib.: 2015.06.01
 Start Time: 22:05:05 End Time: 04:18:14 Time On Btm: 2015.06.01 @ 00:11:45
 Time Off Btm: 2015.06.01 @ 02:13:30

TEST COMMENT: IF-BOB in 7min
 ISI-No blow
 FFBOB in 14min
 FSI-1/4in blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1599.92	102.68	Initial Hydro-static
1	41.37	102.21	Open To Flow (1)
31	178.72	105.10	Shut-In(1)
60	656.55	105.61	End Shut-In(1)
61	184.93	105.42	Open To Flow (2)
89	252.63	106.22	Shut-In(2)
121	635.58	106.44	End Shut-In(2)
122	1565.67	106.26	Final Hydro-static

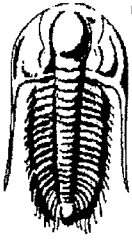
Recovery

Length (ft)	Description	Volume (bbl)
300.00	OS MCW 60%W 40%M	3.12
180.00	VSOWCM 5%O 40%W 55%M	2.52
40.00	SGO 10%G 90%O	0.56
0.00	40ft GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62343

DST#: 3

ATTN: Ryan Seib

Test Start: 2015.05.31 @ 22:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

90000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	OS MCW 60%W 40%M	3.115
180.00	VSOWCM 5%O 40%W 55%M	2.525
40.00	SGO 10%G 90%O	0.561
0.00	40ft GIP	0.000

Total Length: 520.00 ft

Total Volume: 6.201 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8957

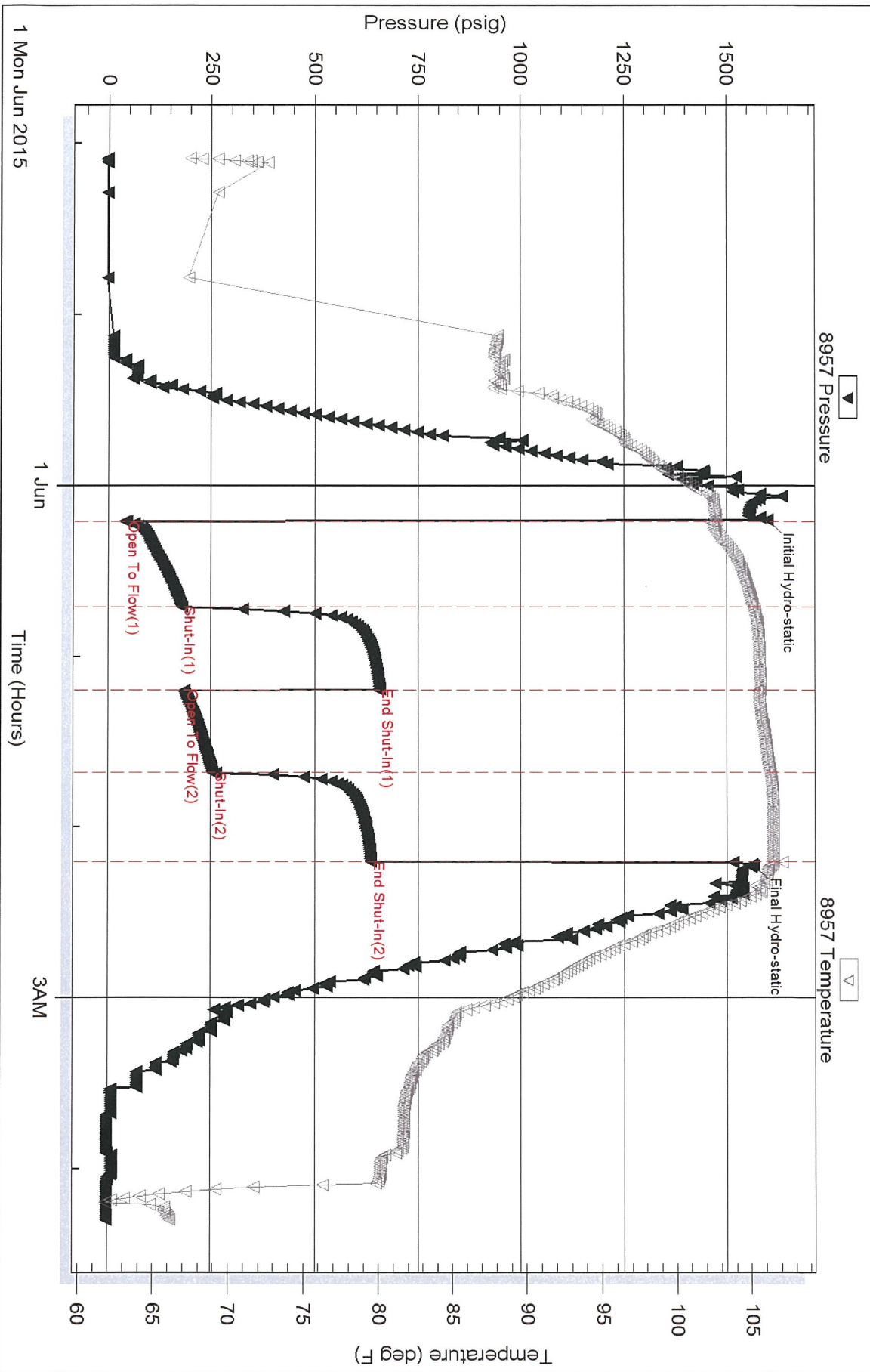
Outside

Palomino Petroleum, Inc.

Ratiff-Methodist #1

DST Test Number: 3

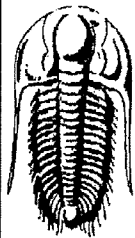
Pressure vs. Time



Trilobe Testing, Inc

Ref. No: 62343

Printed: 2015.06.01 @ 06:39:32



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

ATTN: Ryan Seib

Job Ticket: 62344

DST#: 4

Test Start: 2015.06.01 @ 17:15:00

GENERAL INFORMATION:

Formation: **KC "I-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:29:00

Time Test Ended: 22:59:15

Interval: **3364.00 ft (KB) To 3440.00 ft (KB) (TVD)**

Total Depth: 3440.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 81

Reference Elevations: 2021.00 ft (KB)

2016.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8957

Outside

Press@RunDepth: 23.31 psig @ 3437.00 ft (KB)

Start Date: 2015.06.01

End Date:

2015.06.01

Start Time: 17:15:05

End Time:

22:59:14

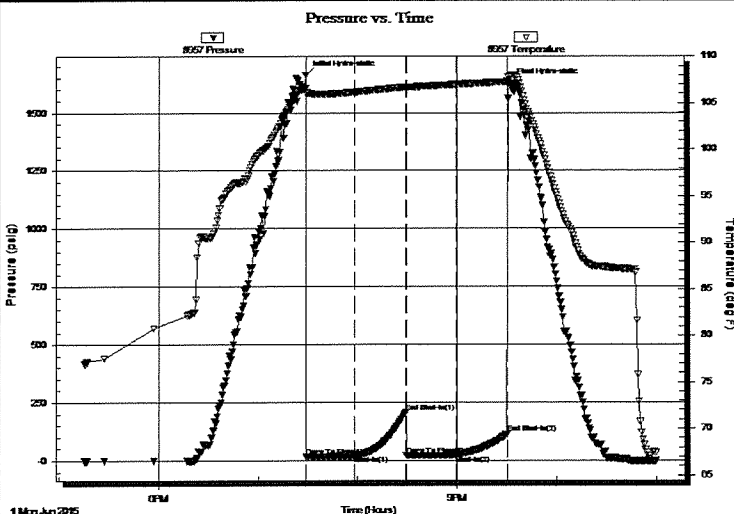
Capacity: 8000.00 psig

Last Calib.: 2015.06.01

Time On Btm: 2015.06.01 @ 19:28:30

Time Off Btm: 2015.06.01 @ 21:32:00

TEST COMMENT: IF-1/4in blow
ISI-No blow
FF-No blow
FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1662.73	106.55	Initial Hydro-static
1	17.16	105.98	Open To Flow (1)
30	19.63	106.18	Shut-In(1)
61	207.55	106.69	End Shut-In(1)
61	20.33	106.56	Open To Flow (2)
91	23.31	107.00	Shut-In(2)
122	114.70	107.27	End Shut-In(2)
124	1625.73	107.91	Final Hydro-static

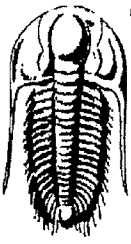
Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62344

DST#: 4

ATTN: Ryan Seib

Test Start: 2015.06.01 @ 17:15:00

GENERAL INFORMATION:

Formation: **KC "I-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:29:00

Time Test Ended: 22:59:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 81

Interval: 3364.00 ft (KB) To 3440.00 ft (KB) (TVD)

Reference Elevations: 2021.00 ft (KB)

Total Depth: 3440.00 ft (KB) (TVD)

2016.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8736

Inside

Press@RunDepth: psig @ 3437.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.01 End Date: 2015.06.01

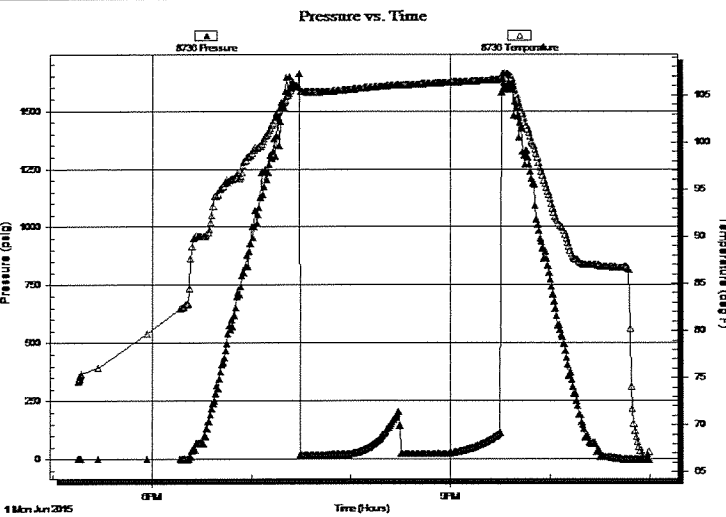
Last Calib.: 2015.06.01

Start Time: 17:15:05 End Time: 22:59:29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-1/4in blow
ISI-No blow
FF-No blow
FSI-No blow



PRESSURE SUMMARY

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

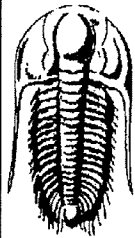
Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62344

DST#: 4

ATTN: Ryan Seib

Test Start: 2015.06.01 @ 17:15:00

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: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	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 #: 8957

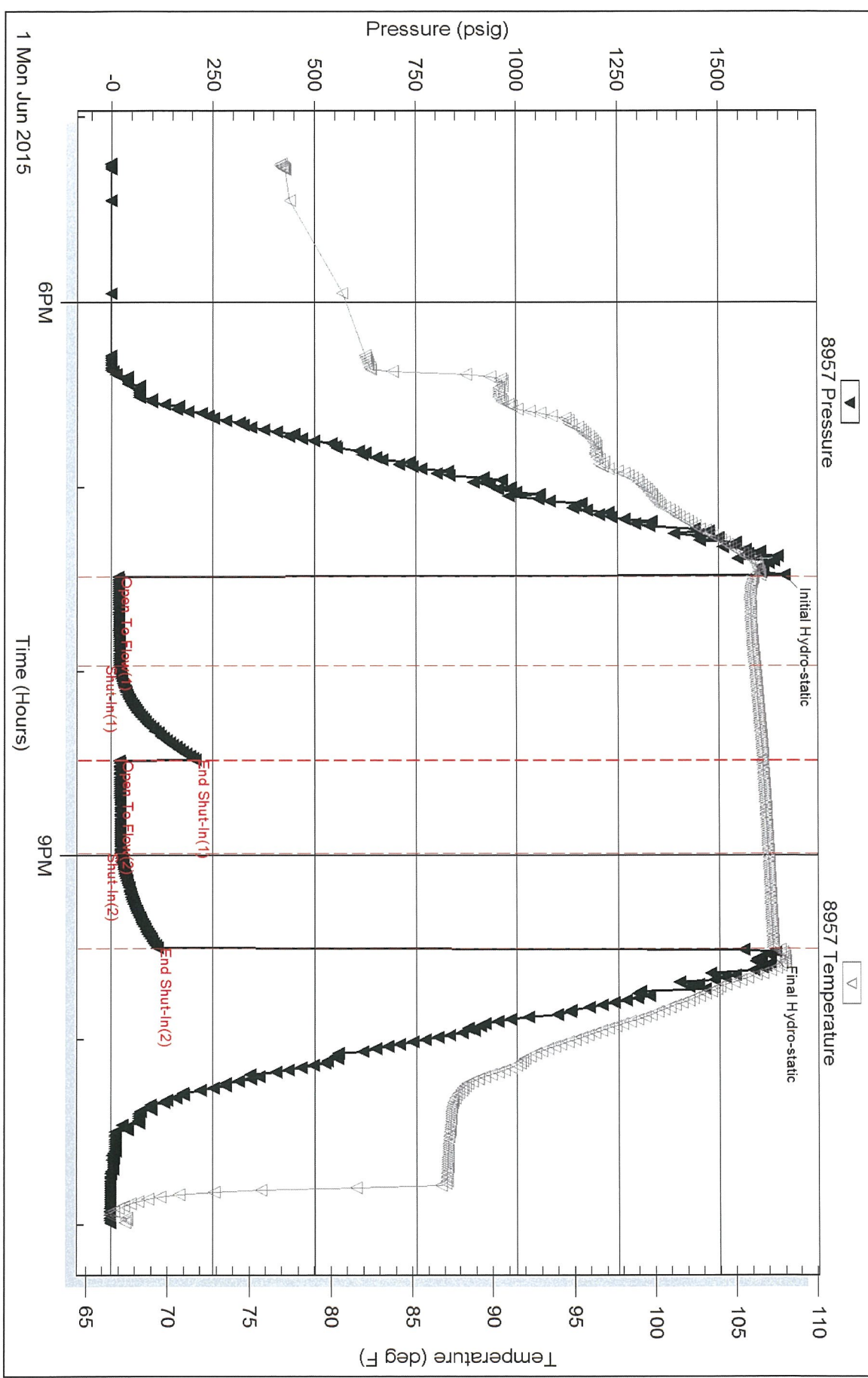
Outside

Palomino Petroleum, Inc.

Ratiff-Methodist #1

DST Test Number: 4

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 62344

Printed: 2015.06.02 @ 01:02:17

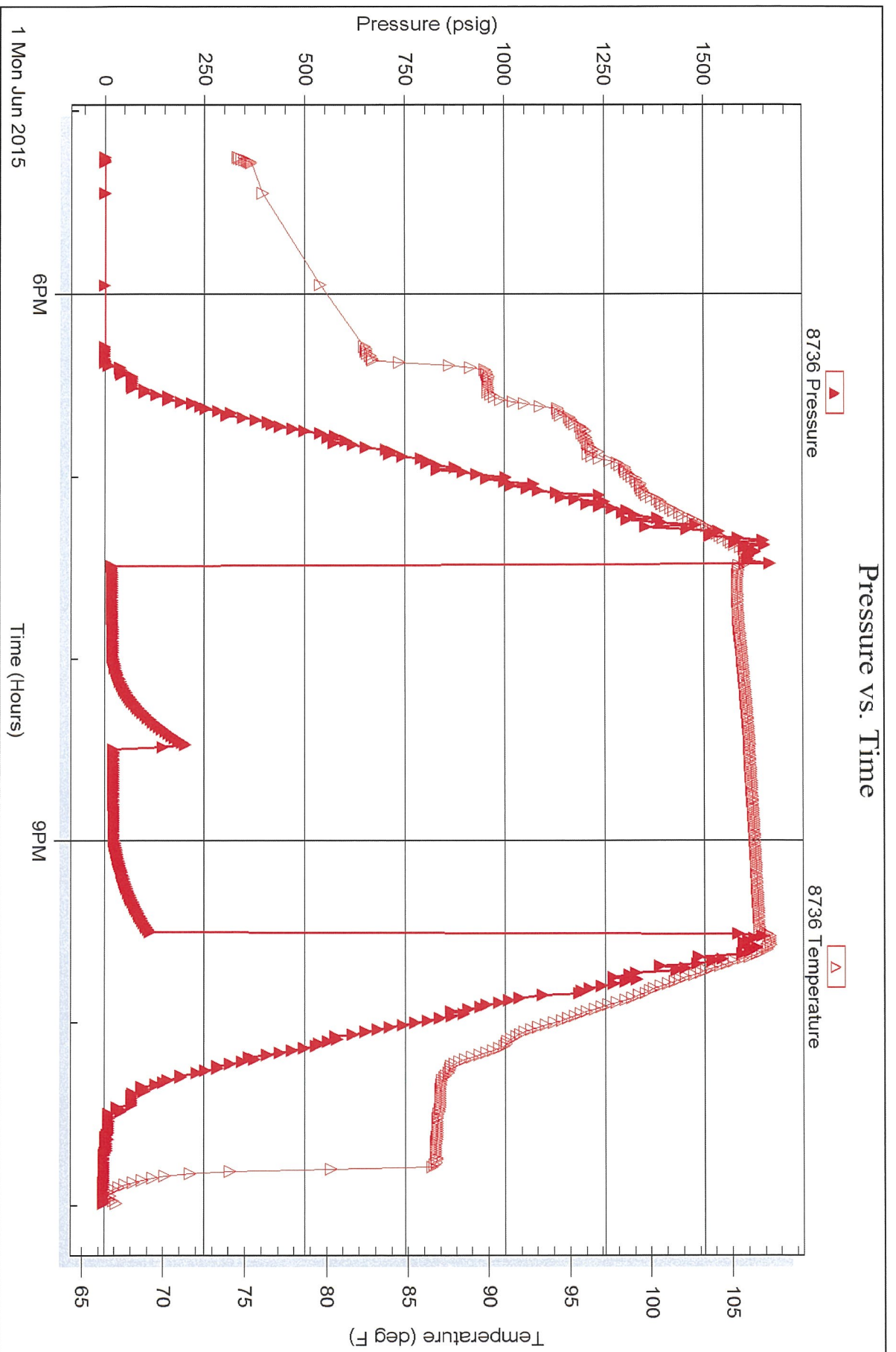
Serial #: 8736

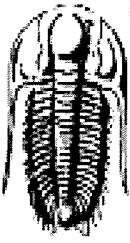
Inside

Palomino Petroleum, Inc.

Ratiff-Methodist #1

DST Test Number: 4





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

15-7s-20w Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62345

DST#: 5

ATTN: Ryan Seib

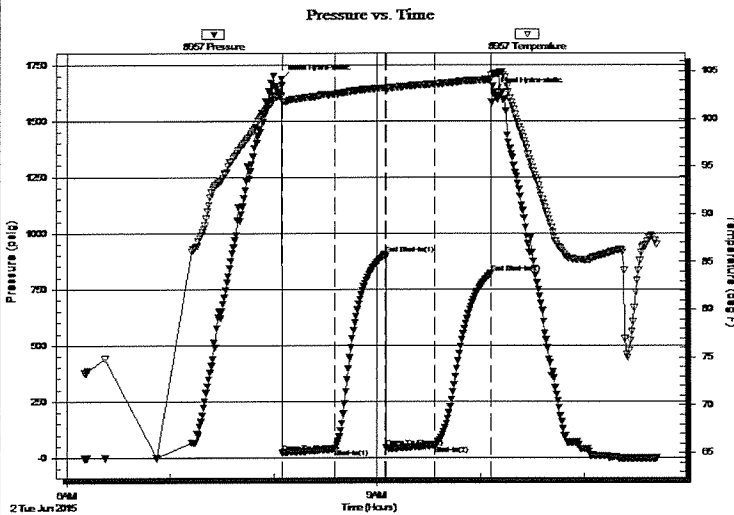
Test Start: 2015.06.02 @ 06:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 08:04:45 Tester: Brett Dickinson
 Time Test Ended: 11:41:30 Unit No: 81
 Interval: **3364.00 ft (KB) To 3481.00 ft (KB) (TVD)** Reference Elevations: 2021.00 ft (KB)
 Total Depth: 3481.00 ft (KB) (TVD) 2016.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8957 Outside
 Press@RunDepth: 52.47 psig @ 3478.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.06.02 End Date: 2015.06.02 Last Calib.: 2015.06.02
 Start Time: 06:10:05 End Time: 11:41:29 Time On Btm: 2015.06.02 @ 08:04:15
 Time Off Btm: 2015.06.02 @ 10:07:45

TEST COMMENT: IF-1 1/2in blow
 ISI-No blow
 FF-very weak surface blow
 FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1685.33	102.38	Initial Hydro-static
1	20.95	101.78	Open To Flow (1)
31	41.20	102.61	Shut-In(1)
61	905.99	103.24	End Shut-In(1)
61	43.94	103.09	Open To Flow (2)
89	52.47	103.62	Shut-In(2)
122	821.16	104.12	End Shut-In(2)
124	1625.48	104.73	Final Hydro-static

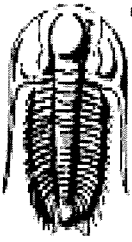
Recovery

Length (ft)	Description	Volume (bbl)
55.00	OCM 20%O 80%M	0.27
15.00	SGO 5%G 95%O	0.07

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

15-7s-20w Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62345

DST#: 5

ATTN: Ryan Seib

Test Start: 2015.06.02 @ 06:10:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 31 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.39 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1100.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	OCM 20%O 80%M	0.270
15.00	SGO 5%G 95%O	0.074

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

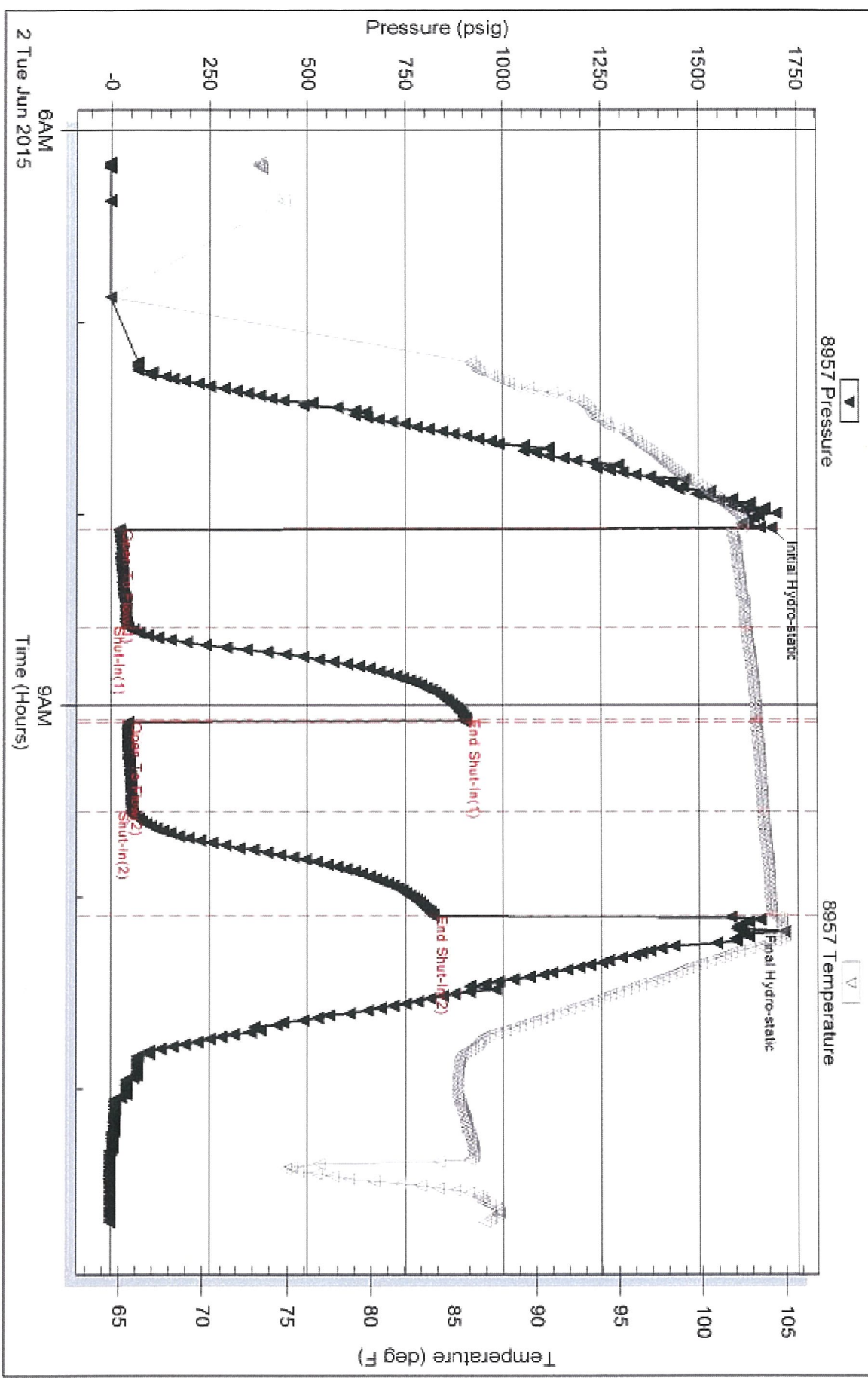
Serial #: 8957

Outside Palomino Petroleum, Inc.

Ratlift-Methodist #1

DST Test Number: 5

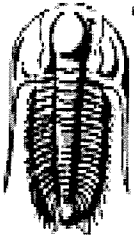
Pressure vs. Time



Tribotek Testing, Inc

Ref. No: 62345

Printed: 2015 06 02 @ 13:11:40



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62346

DST#: 6

ATTN: Ryan Seib

Test Start: 2015.06.02 @ 17:05:00

GENERAL INFORMATION:

Formation: **Arb.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:44:00

Time Test Ended: 22:30:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 81

Interval: 3480.00 ft (KB) To 3489.00 ft (KB) (TVD)

Total Depth: 3489.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2021.00 ft (KB)

2016.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8957 Outside

Press@RunDepth: 41.42 psig @ 3486.00 ft (KB)

Start Date: 2015.06.02

End Date: 2015.06.02

Capacity: 8000.00 psig

Last Calib.: 2015.06.02

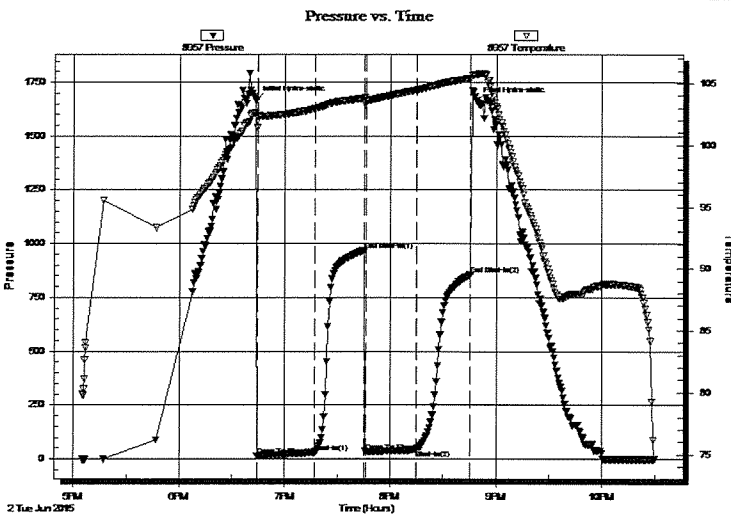
Start Time: 17:05:05

End Time: 22:30:14

Time On Btm: 2015.06.02 @ 18:43:15

Time Off Btm: 2015.06.02 @ 20:48:45

TEST COMMENT: IF-1/4in blow
IS-No blow
FF-1/4in blow
FS-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1667.09	102.60	Initial Hydro-static
1	15.07	101.43	Open To Flow (1)
34	28.95	102.96	Shut-In(1)
62	969.84	103.82	End Shut-In(1)
63	31.51	103.62	Open To Flow (2)
92	41.42	104.46	Shut-In(2)
123	856.77	105.41	End Shut-In(2)
126	1663.08	105.74	Final Hydro-static

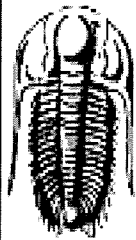
Recovery

Length (ft)	Description	Volume (bbl)
20.00	SOCM 10%O 90%M	0.10
40.00	SGO 5%G 95%O	0.20

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62346

DST#: 6

ATTN: Ryan Seib

Test Start: 2015.06.02 @ 17:05:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 31 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.38 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1100.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	SOCM 10%O 90%M	0.098
40.00	SGO 5%G 95%O	0.197

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8957

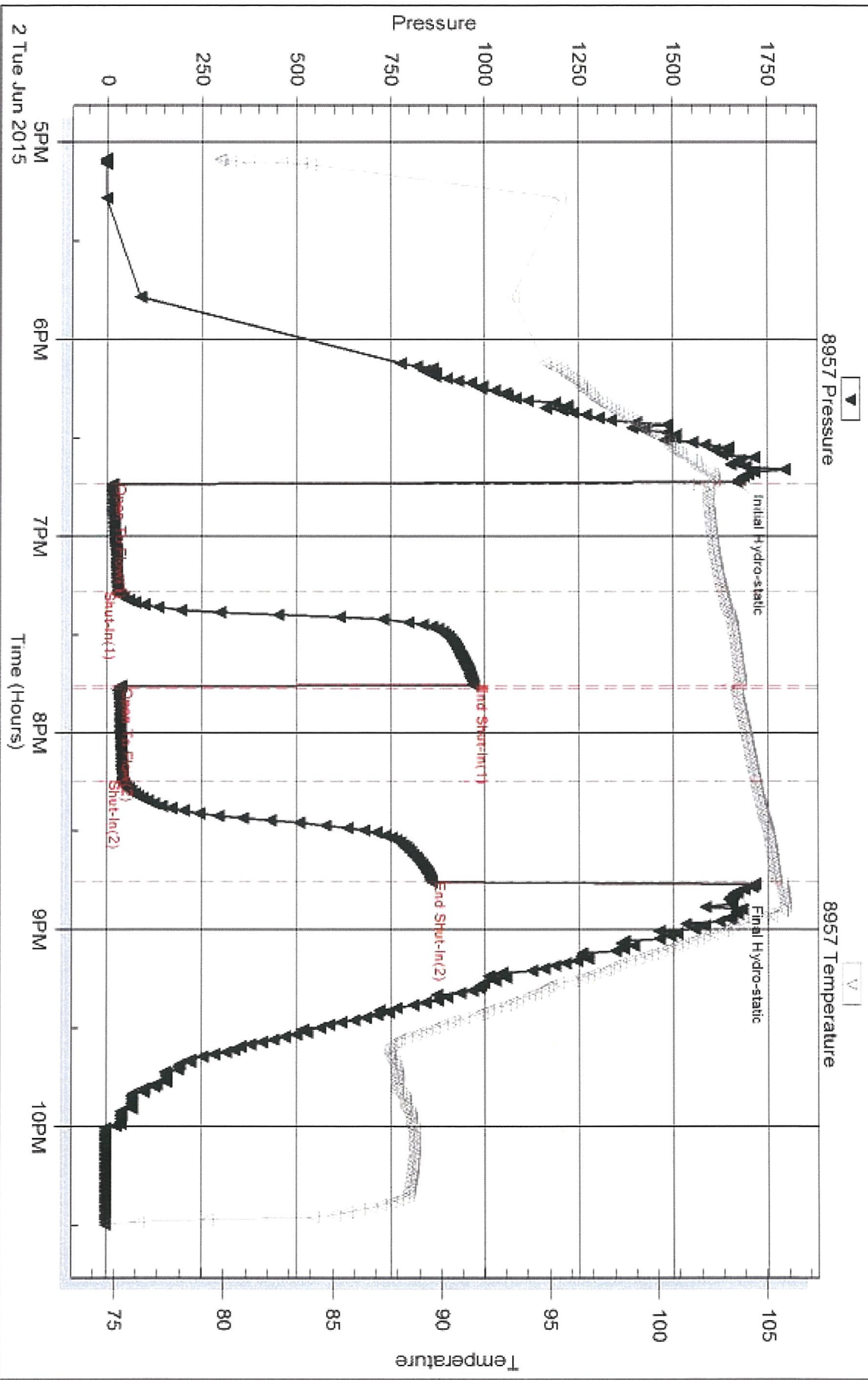
Outside

Palomino Petroleum, Inc.

Ratiff-Methodist #1

DST Test Number: 6

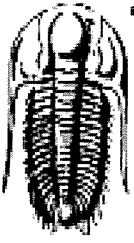
Pressure vs. Time



Triobite Testing, Inc

Ref. No: 62346

Printed: 2015.06.03 @ 07:42:39



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62347

DST#: 7

ATTN: Ryan Seib

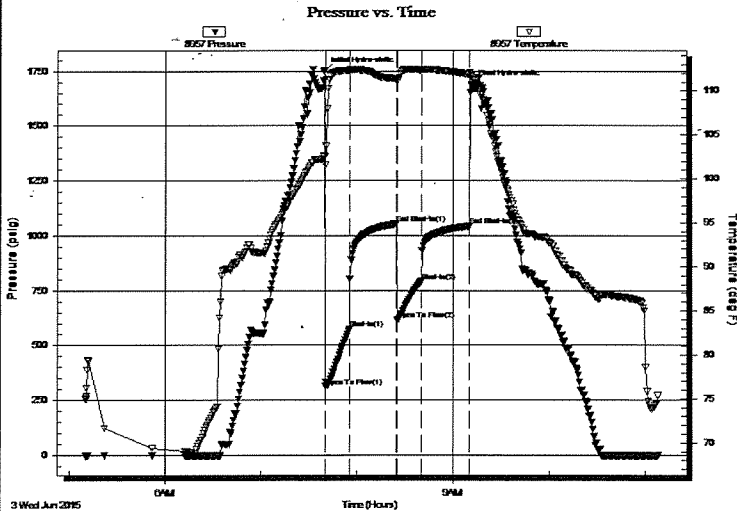
Test Start: 2015.06.03 @ 05:10:00

GENERAL INFORMATION:

Formation: **Arb.**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 07:40:15
 Tester: Brett Dickinson
 Time Test Ended: 11:07:45
 Unit No: 81
 Interval: **3488.00 ft (KB) To 3515.00 ft (KB) (TVD)**
 Reference Elevations: 2021.00 ft (KB)
 Total Depth: 3515.00 ft (KB) (TVD)
 2016.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 8957 Outside
 Press@RunDepth: 791.99 psig @ 3512.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.06.03 End Date: 2015.06.03 Last Calib.: 2015.06.03
 Start Time: 05:10:05 End Time: 11:07:44 Time On Btm: 2015.06.03 @ 07:39:30
 Time Off Btm: 2015.06.03 @ 09:11:15

TEST COMMENT: IF-BOB in 1min
 ISI-No blow
 FF-BOB in 1min
 FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1748.44	102.66	Initial Hydro-static
1	312.49	101.56	Open To Flow (1)
16	573.19	112.30	Shut-In(1)
46	1054.13	111.34	End Shut-In(1)
46	616.94	111.21	Open To Flow (2)
61	791.99	112.39	Shut-In(2)
91	1043.92	111.89	End Shut-In(2)
92	1688.60	111.78	Final Hydro-static

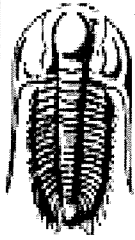
Recovery

Length (ft)	Description	Volume (bbl)
1500.00	Water	19.95
240.00	MCW 30%M 70%W	3.37
0.00	120ft GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc.

15-7-20, Rooks, KS

4924 SE 84th ST
New ton KS 67114

Ratliff-Methodist #1

Job Ticket: 62347

DST#: 7

ATTN: Ryan Seib

Test Start: 2015.06.03 @ 05:10:00

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:	42000 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1100.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1500.00	Water	19.948
240.00	MCW 30%M 70%W	3.367
0.00	120ft GIP	0.000

Total Length: 1740.00 ft Total Volume: 23.315 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

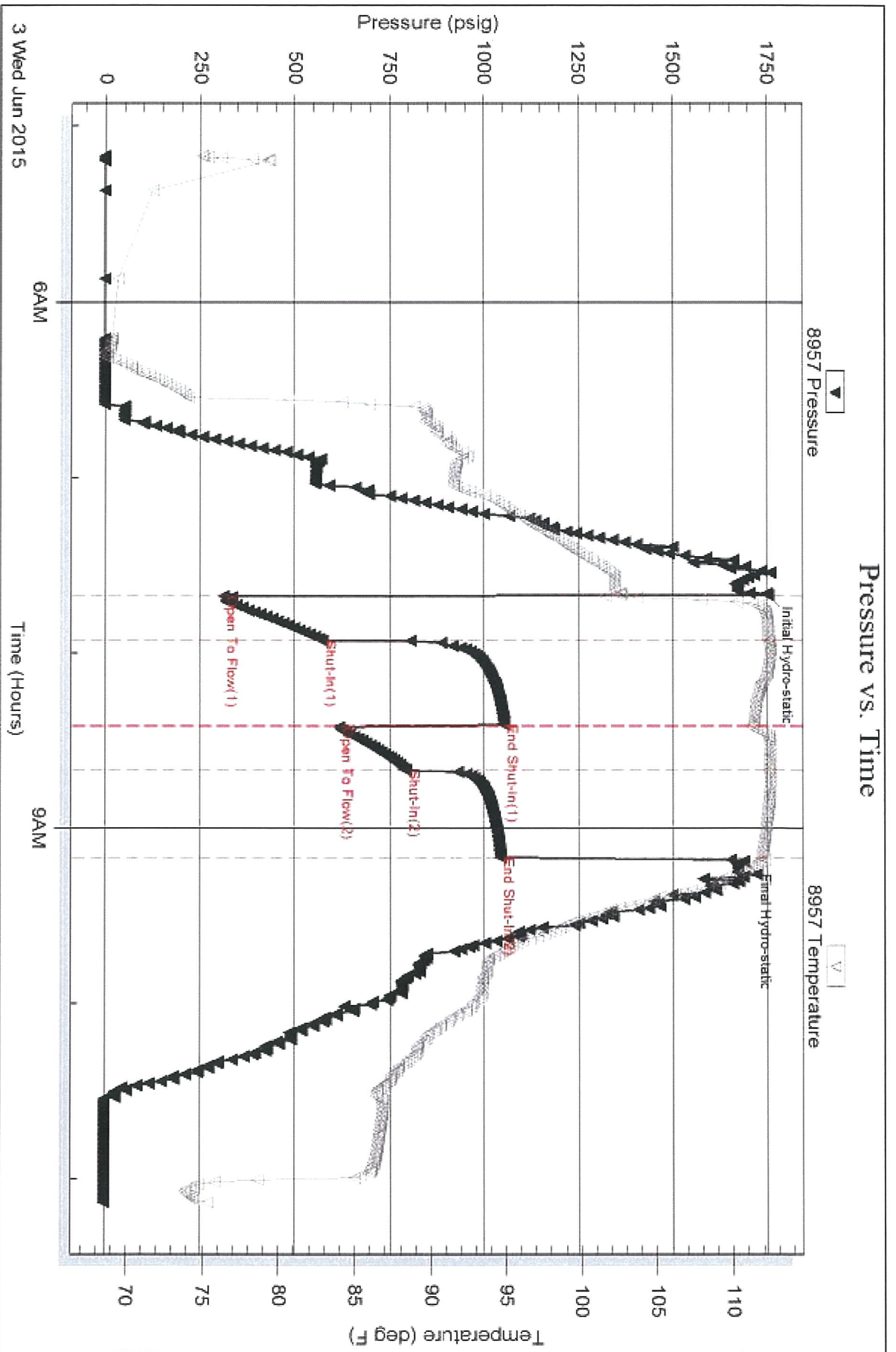
Serial #: 8957

Outside

Palomino Petroleum, Inc.

Ratiff-Methodist #1

DST Test Number: 7



Tricoble Testing, Inc

Ref. No: 62347

Printed: 2015.06.03 @ 13:09:34