

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827

ATTN: Klee Watchous

16-15s-23w Trego,KS

Basgall-Santee #1

Job Ticket: 47159

DST#: 1

Test Start: 2012.05.29 @ 08:00:23

GENERAL INFORMATION:

Formation: **LKC D-E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:34:18

Time Test Ended: 14:48:17

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 42

Interval: **3722.00 ft (KB) To 3750.00 ft (KB) (TVD)**

Total Depth: 3750.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2290.00 ft (KB)

2283.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6625

Inside

Press@RunDepth: 80.77 psig @ 3723.00 ft (KB)

Start Date: 2012.05.29

End Date: 2012.05.29

Start Time: 08:00:23

End Time: 14:48:17

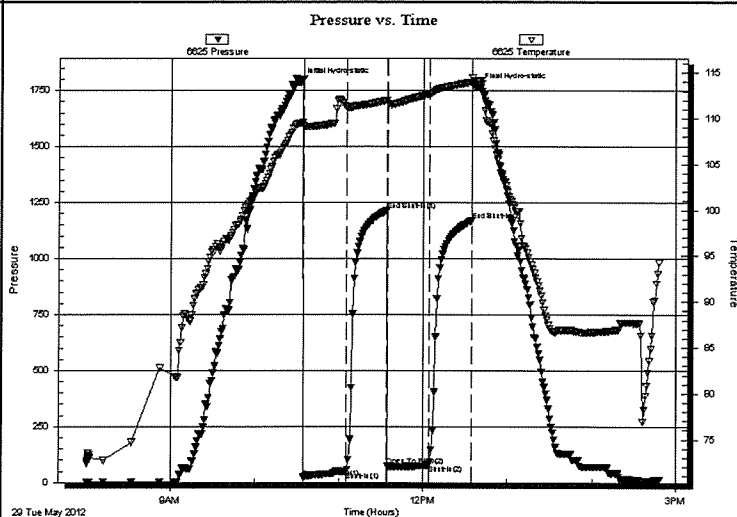
Capacity: 8000.00 psig

Last Calib.: 2012.05.29

Time On Btm: 2012.05.29 @ 10:31:18

Time Off Btm: 2012.05.29 @ 12:37:47

TEST COMMENT: 30- IFP-w k to a fr bl 1/4" to 4 " bl
30-ISIP-no bl
30-FFP-w k bl thru-out surface to 2" bl
30-FSIP-no bl



PRESSURE SUMMARY

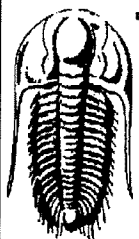
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1785.85	109.45	Initial Hydro-static
3	23.30	109.19	Open To Flow (1)
34	48.32	111.28	Shut-In(1)
63	1214.31	112.00	End Shut-In(1)
64	75.05	111.61	Open To Flow (2)
93	80.77	112.70	Shut-In(2)
123	1168.88	113.97	End Shut-In(2)
127	1764.71	114.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCMW 4%O35%M61%W	0.30
120.00	CO	1.14

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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4924 SE 84th St
New ton KS 67114-8827

ATTN: Klee Watchous

16-15s-23w Trego,KS

Basgall-Santee #1

Job Ticket: 47159

DST#: 1

Test Start: 2012.05.29 @ 08:00:23

GENERAL INFORMATION:

Formation: **LKC D-E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:34:18

Time Test Ended: 14:48:17

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 42

Interval: **3722.00 ft (KB) To 3750.00 ft (KB) (TVD)**

Total Depth: 3750.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2290.00 ft (KB)

2283.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8700

Outside

Press@RunDepth: psig @ 3723.00 ft (KB)

Start Date: 2012.05.29

End Date:

2012.05.29

Start Time: 08:01:24

End Time:

14:42:48

Capacity: 8000.00 psig

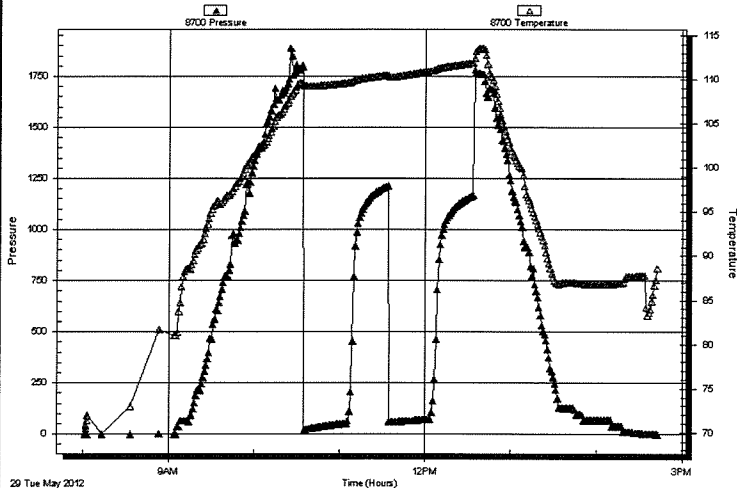
Last Calib.: 2012.05.29

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IFP-w k to a fr bl 1/4" to 4 " bl
30-ISIP-no bl
30-FFP-w k bl thru-out surface to 2" bl
30-FSIP-no bl

Pressure vs. Time



PRESSURE SUMMARY

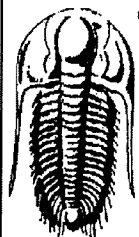
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCMW 4%O35%M61%W	0.30
120.00	CO	1.14

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827

ATTN: Klee Watchous

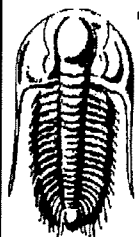
16-15s-23w Trego,KS
Basgall-Santee #1
Job Ticket: 47159 **DST#: 1**
Test Start: 2012.05.29 @ 08:00:23

Tool Information

Drill Pipe:	Length: 3601.00 ft	Diameter: 3.80 inches	Volume: 50.51 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 55000.00 lb
			Total Volume: 51.10 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3722.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3702.00	
Shut In Tool	5.00			3707.00	
Hydraulic tool	5.00			3712.00	
Packer	5.00			3717.00	21.00 Bottom Of Top Packer
Packer	5.00			3722.00	
Stubb	1.00			3723.00	
Recorder	0.00	6625	Inside	3723.00	
Recorder	0.00	8700	Outside	3723.00	
Perforations	24.00			3747.00	
Bullnose	3.00			3750.00	28.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827

ATTN: Klee Watchous

16-15s-23w Trego,KS
Basgall-Santee #1
Job Ticket: 47159 **DST#: 1**
Test Start: 2012.05.29 @ 08:00:23

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 9.95 in³
Resistivity: ohm.m
Salinity: 3500.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 23 deg API
Water Salinity: 85000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SOCMW 4%Q35%M61%W	0.295
120.00	CO	1.137

Total Length: 180.00 ft Total Volume: 1.432 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW .08 @ 80F

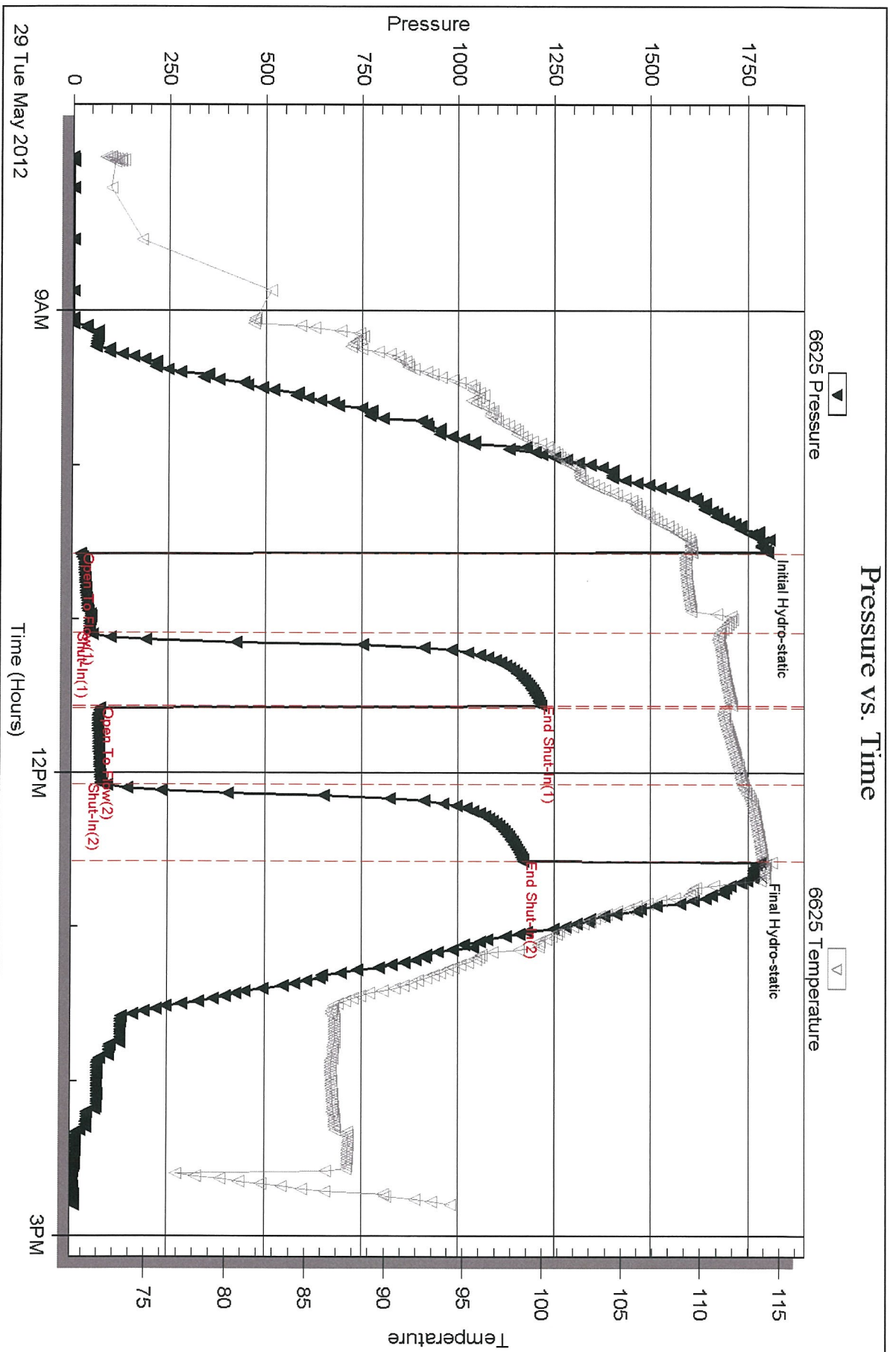
Serial #: 6625

Inside

Palomino Petroleum Inc

Basgal-Santee #1

DST Test Number: 1

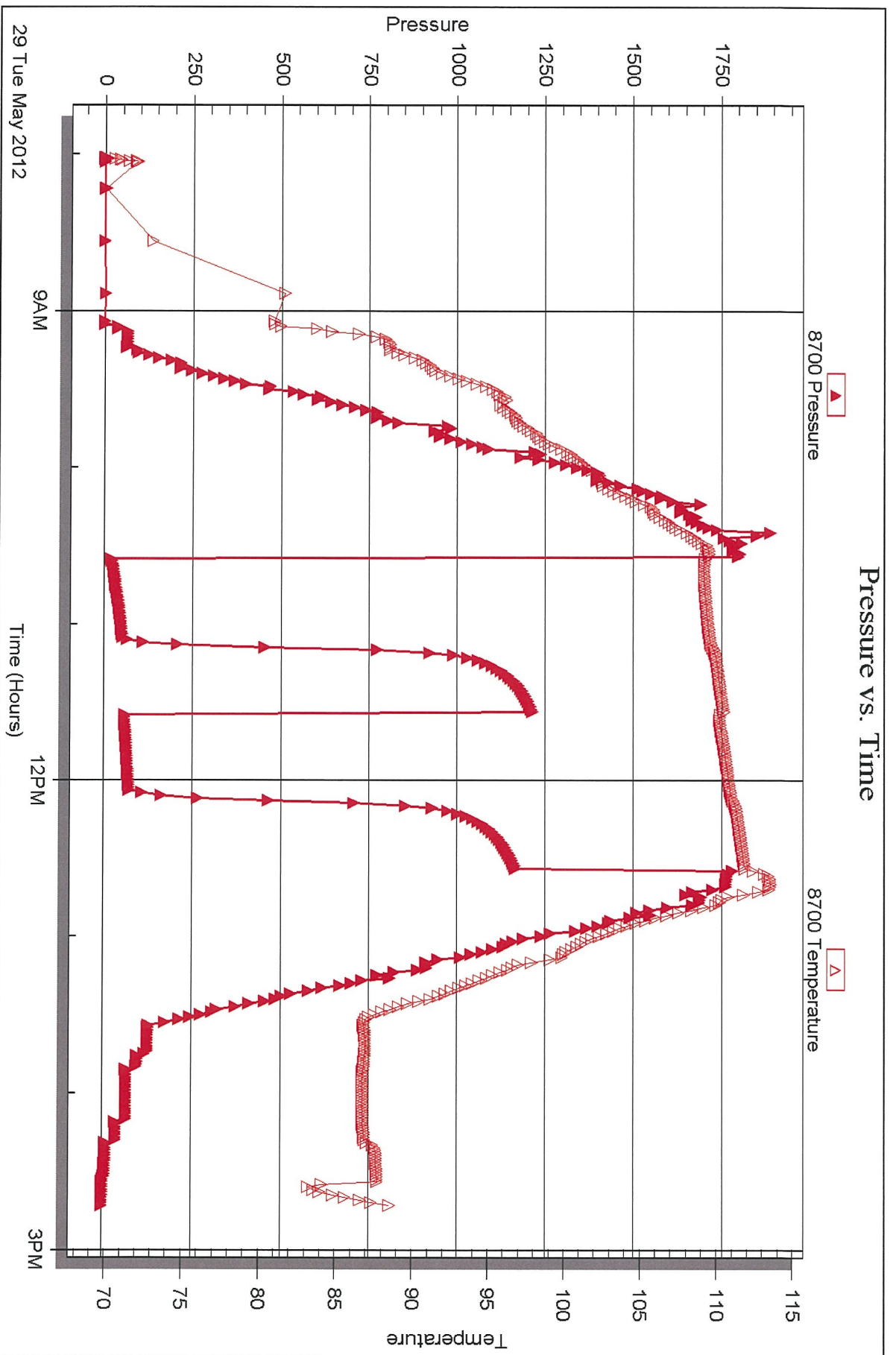


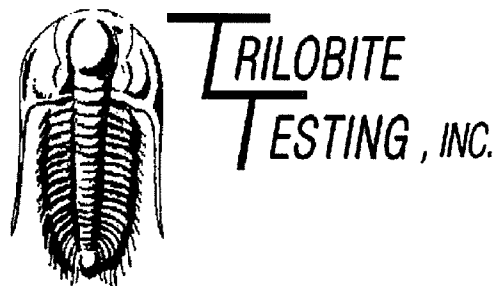
Serial #: 8700

Outside Palomino Petroleum Inc

Basgal-Santee #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St
Newton KS 67114-8827

ATTN: Klee Watchous

Basgall-Santee #1

16-15s-23w Trego,KS

Start Date: 2012.05.31 @ 02:10:43

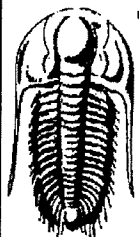
End Date: 2012.05.31 @ 08:56:37

Job Ticket #: 47160 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827

ATTN: Klee Watchous

16-15s-23w Trego,KS

Basgall-Santee #1

Job Ticket: 47160

DST#: 2

Test Start: 2012.05.31 @ 02:10:43

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:52:38

Time Test Ended: 08:56:37

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 42

Interval: 4169.00 ft (KB) To 4245.00 ft (KB) (TVD)

Total Depth: 4245.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2290.00 ft (KB)

2283.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6625

Inside

Press@RunDepth: 77.01 psig @ 4178.00 ft (KB)

Start Date: 2012.05.31

End Date:

2012.05.31

Start Time: 02:10:43

End Time:

08:56:37

Capacity: 8000.00 psig

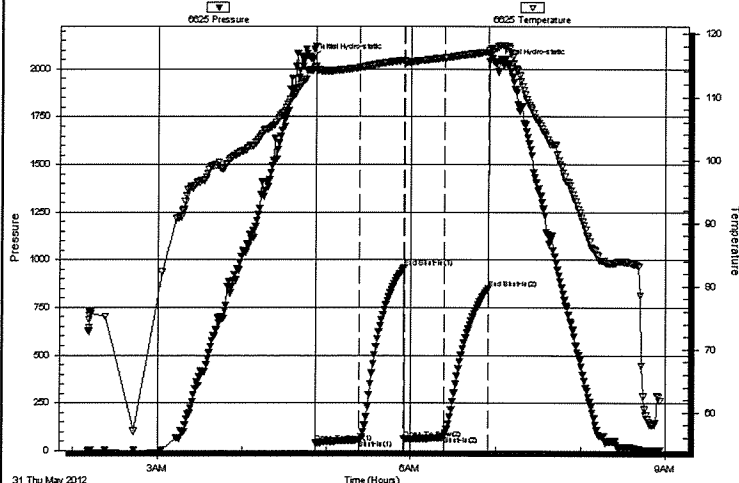
Last Calib.: 2012.05.31

Time On Btm: 2012.05.31 @ 04:49:38

Time Off Btm: 2012.05.31 @ 06:59:37

TEST COMMENT: 30-IFP-w k bl 1/2" to 1 1/4" bl
30-ISIP-no bl
30-FFP-no bl
30-FSIP-no bl

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2054.66	114.31	Initial Hydro-static
3	39.91	114.34	Open To Flow (1)
34	54.96	114.60	Shut-In(1)
65	957.15	115.81	End Shut-In(1)
66	60.71	115.61	Open To Flow (2)
94	77.01	116.16	Shut-In(2)
125	848.19	117.10	End Shut-In(2)
130	2031.66	117.68	Final Hydro-static

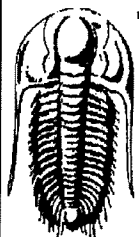
Recovery

Length (ft)	Description	Volume (bbl)
3.00	CO	0.01
70.00	OCM 14%O86%M	0.34

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827

ATTN: Klee Watchous

16-15s-23w Trego,KS

Basgall-Santee #1

Job Ticket: 47160

DST#: 2

Test Start: 2012.05.31 @ 02:10:43

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:52:38

Time Test Ended: 08:56:37

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 42

Interval: 4169.00 ft (KB) To 4245.00 ft (KB) (TVD)

Total Depth: 4245.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2290.00 ft (KB)

2283.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8700

Outside

Press@RunDepth: psig @ 4178.00 ft (KB)

Start Date: 2012.05.31

End Date:

2012.05.31

Start Time: 02:11:42

End Time:

08:56:06

Capacity: 8000.00 psig

Last Calib.: 2012.05.31

Time On Btm:

Time Off Btm:

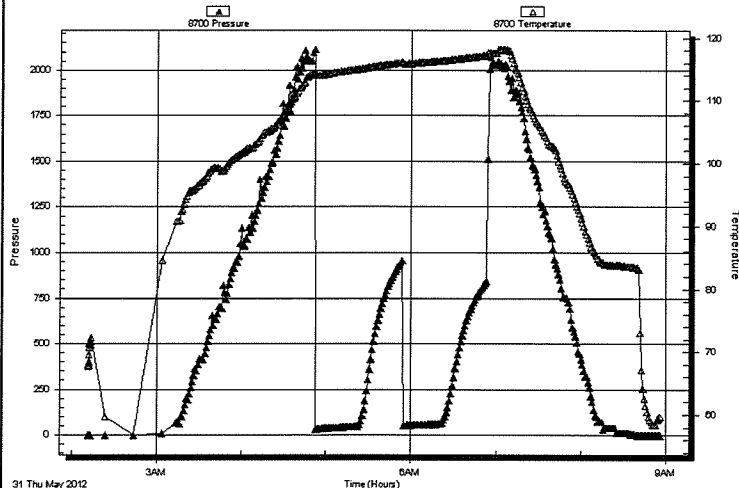
TEST COMMENT: 30-IFP-w k bl 1/2" to 1 1/4" bl

30-ISIP-no bl

30-FFP-no bl

30-FSIP-no bl

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
3.00	CO	0.01
70.00	OCM 14%O86%M	0.34

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827

ATTN: Klee Watchous

16-15s-23w Trego,KS
Basgall-Santee #1
Job Ticket: 47160 **DST#: 2**
Test Start: 2012.05.31 @ 02:10:43

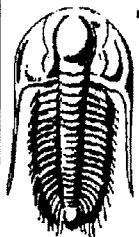
Tool Information

Drill Pipe:	Length: 4040.00 ft	Diameter: 3.80 inches	Volume: 56.67 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume:	57.26 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4169.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	97.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4149.00	
Shut In Tool	5.00			4154.00	
Hydraulic tool	5.00			4159.00	
Packer	5.00			4164.00	21.00 Bottom Of Top Packer
Packer	5.00			4169.00	
Stubb	1.00			4170.00	
Perforations	8.00			4178.00	
Recorder	0.00	6625	Inside	4178.00	
Recorder	0.00	8700	Outside	4178.00	
Blank Spacing	64.00			4242.00	
Bullnose	3.00			4245.00	76.00 Bottom Packers & Anchor

Total Tool Length: 97.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827

ATTN: Klee Watchous

16-15s-23w Trego,KS
Basgall-Santee #1
Job Ticket: 47160 **DST#: 2**
Test Start: 2012.05.31 @ 02:10:43

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 9.94 in³
Resistivity: ohm.m
Salinity: 3500.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 35 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	CO	0.015
70.00	OCM 14%O86%M	0.344

Total Length: 73.00 ft Total Volume: 0.359 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

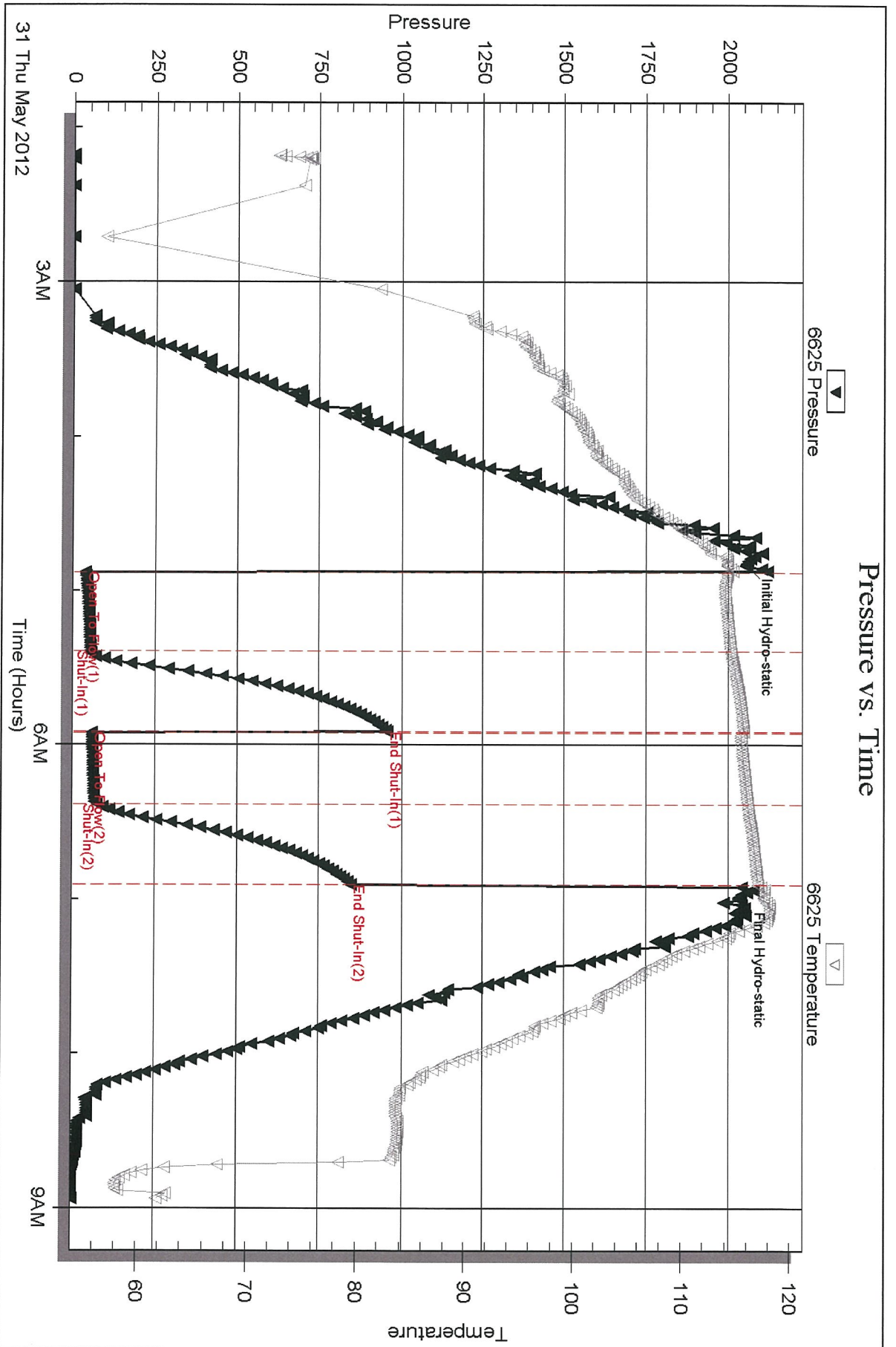
Serial #: 6625

Inside

Palomino Petroleum Inc

Basgal-Santee #1

DST Test Number: 2



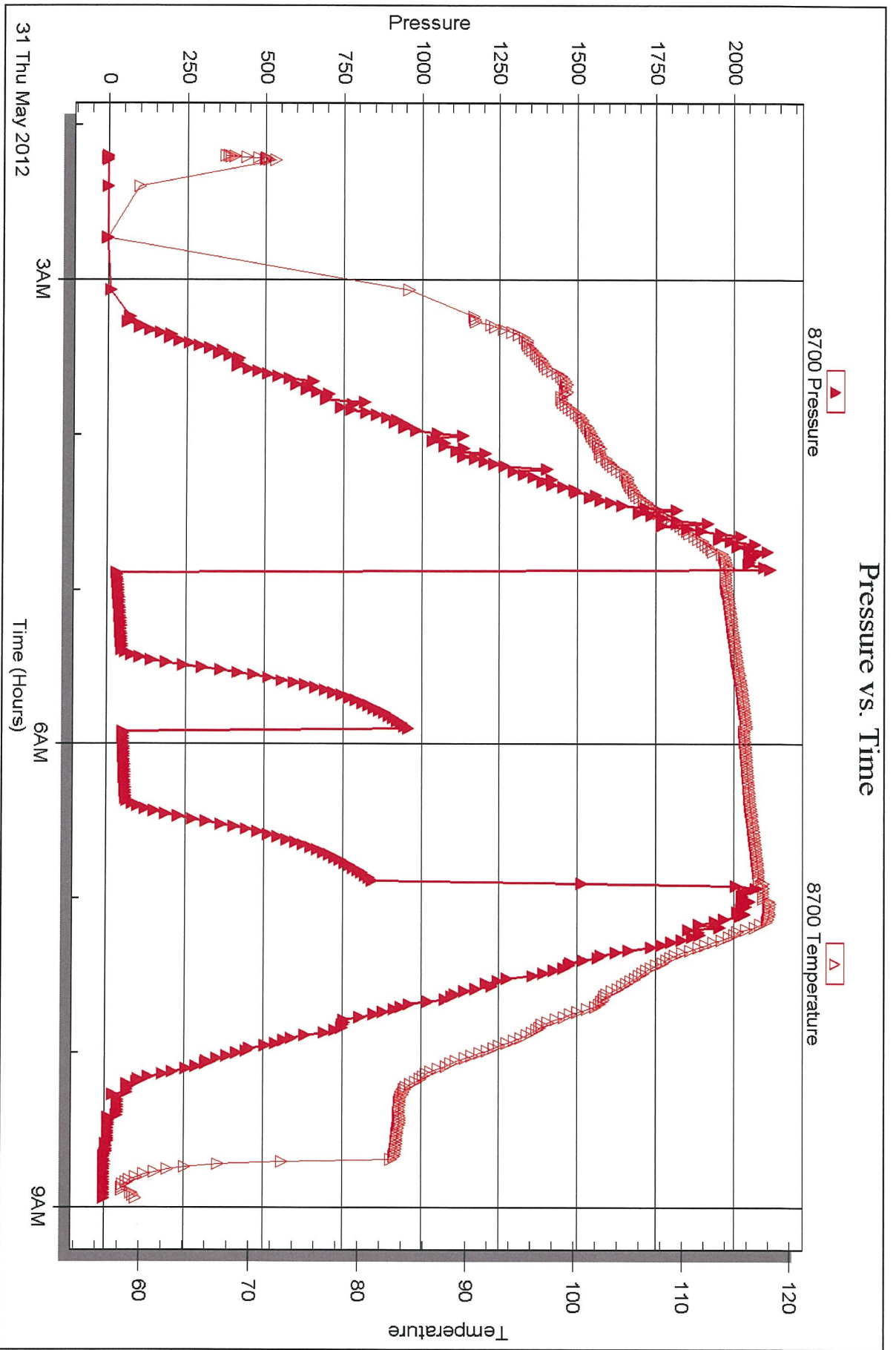
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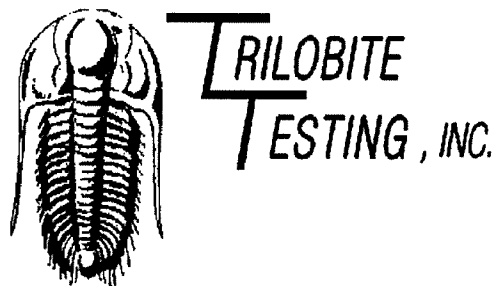
Outside

Palomino Petroleum Inc

Basgal-Santee #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St
Newton KS 67114-8827

ATTN: Klee Watchous

Basgall-Santee #1

16-15s-23w Trego,KS

Start Date: 2012.05.31 @ 16:30:06

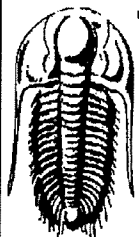
End Date: 2012.05.31 @ 23:37:30

Job Ticket #: 47161 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827

ATTN: Klee Watchous

16-15s-23w Trego,KS

Basgall-Santee #1

Job Ticket: 47161

DST#: 3

Test Start: 2012.05.31 @ 16:30:06

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:48:31

Time Test Ended: 23:37:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 42

Interval: 4170.00 ft (KB) To 4259.00 ft (KB) (TVD)

Total Depth: 4259.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2290.00 ft (KB)

2283.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6625 Inside

Press@RunDepth: 214.16 psig @ 4172.00 ft (KB)

Start Date: 2012.05.31

End Date: 2012.05.31

Start Time: 16:30:06

End Time: 23:37:30

Capacity: 8000.00 psig

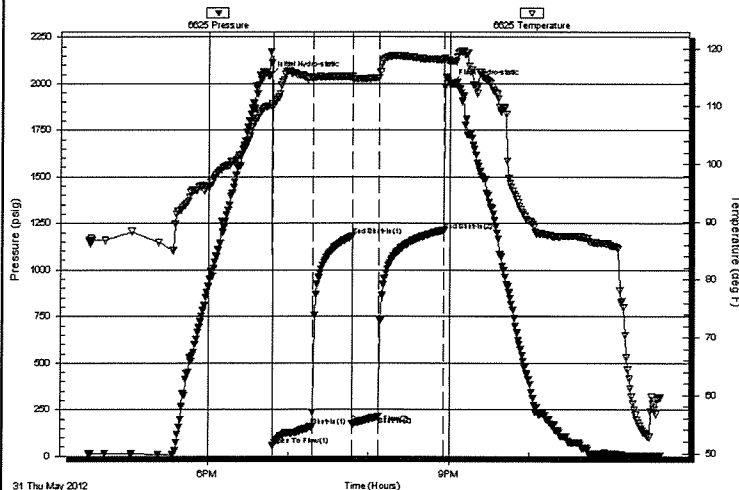
Last Calib.: 2012.05.31

Time On Btm: 2012.05.31 @ 18:45:31

Time Off Btm: 2012.05.31 @ 21:01:00

TEST COMMENT: 30-IFP-w k to strg in 13 min
30-ISIP-surface bl bk
20-FFP-w k to strg in 16 min
45-FSIP-no bl bk

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2043.37	110.05	Initial Hydro-static
3	59.11	110.03	Open To Flow (1)
33	159.24	114.89	Shut-In(1)
62	1180.37	115.17	End Shut-In(1)
63	174.81	114.77	Open To Flow (2)
82	214.16	114.98	Shut-In(2)
130	1208.88	118.10	End Shut-In(2)
136	1998.13	117.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	MGO 10%G5%M85%O	2.39
186.00	MGO 10%G30%M60%O	2.61
30.00	HO&GCM 5%G45%O50%M	0.42

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827
ATTN: Klee Watchous

Basgall-Santee #1

Job Ticket: 47161

DST#: 3

Test Start: 2012.05.31 @ 16:30:06

Formation: Miss

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:48:31

Time Test Ended: 23:37:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 42

Interval: 4170.00 ft (KB) To 4259.00 ft (KB) (TVD)

Total Depth: 4259.00 ft (KB) (TVD)

Hole Diameter: 7.88 inchesHole Condition: Fair

Reference Elevations: 2290.00 ft (KB)

2283.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8700

Outside

Press@RunDepth: psig @ 4172.00 ft (KB)

Start Date: 2012.05.31

End Date:

2012.05.31

Start Time: 16:31:06

End Time:

23:36:30

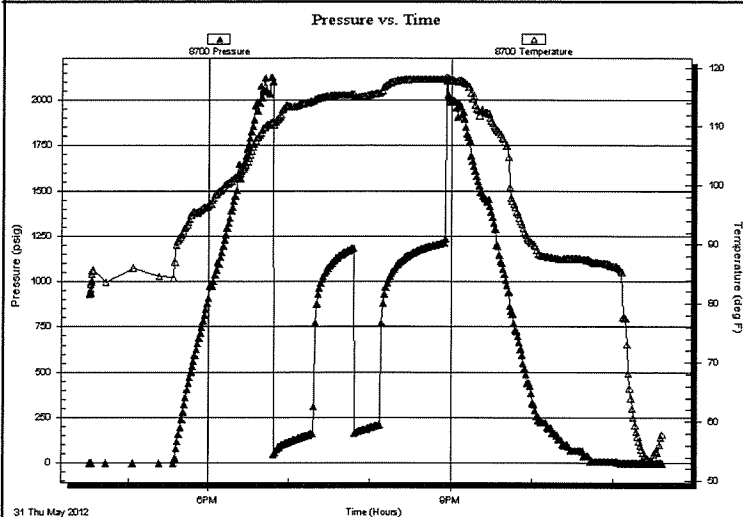
Capacity: 8000.00 psia

Last Calib.: 2012.05.31

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IFP-w k to strg in 13 min
30-ISIP-surface bl bk
20-FFP-w k to strg in 16 min
45-FSIP-no bl bk



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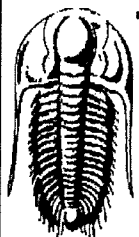
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Length (ft)	Description	Volume (bbl)
248.00	MGO 10%G5%M85%O	2.39
186.00	MGO 10%G30%M60%O	2.61
30.00	HO&GCM 5%G45%O50%M	0.42

* Recovery from multiple tests

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827

ATTN: Klee Watchous

16-15s-23w Trego,KS

Basgall-Santee #1

Job Ticket: 47161

DST#: 3

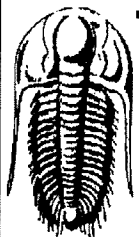
Test Start: 2012.05.31 @ 16:30:06

Tool Information

Drill Pipe:	Length: 4039.00 ft	Diameter: 3.80 inches	Volume: 56.66 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 55000.00 lb
			Total Volume: 57.25 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4170.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	89.00 ft			
Tool Length:	110.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4150.00	
Shut In Tool	5.00			4155.00	
Hydraulic tool	5.00			4160.00	
Packer	5.00			4165.00	21.00 Bottom Of Top Packer
Packer	5.00			4170.00	
Stubb	1.00			4171.00	
Perforations	1.00			4172.00	
Recorder	0.00	6625	Inside	4172.00	
Recorder	0.00	8700	Outside	4172.00	
Blank Spacing	65.00			4237.00	
Perforations	19.00			4256.00	
Bullnose	3.00			4259.00	89.00 Bottom Packers & Anchor

Total Tool Length: 110.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827

ATTN: Klee Watchous

16-15s-23w Trego,KS
Basgall-Santee #1
Job Ticket: 47161 **DST#: 3**
Test Start: 2012.05.31 @ 16:30:06

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 46.00 sec/qt
Water Loss: 8.76 in³
Resistivity: ohm.m
Salinity: 3300.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	MGO 10%G5%M85%O	2.386
186.00	MGO 10%G30%M60%O	2.609
30.00	HO&GCM 5%G45%O50%M	0.421

Total Length: 464.00 ft Total Volume: 5.416 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

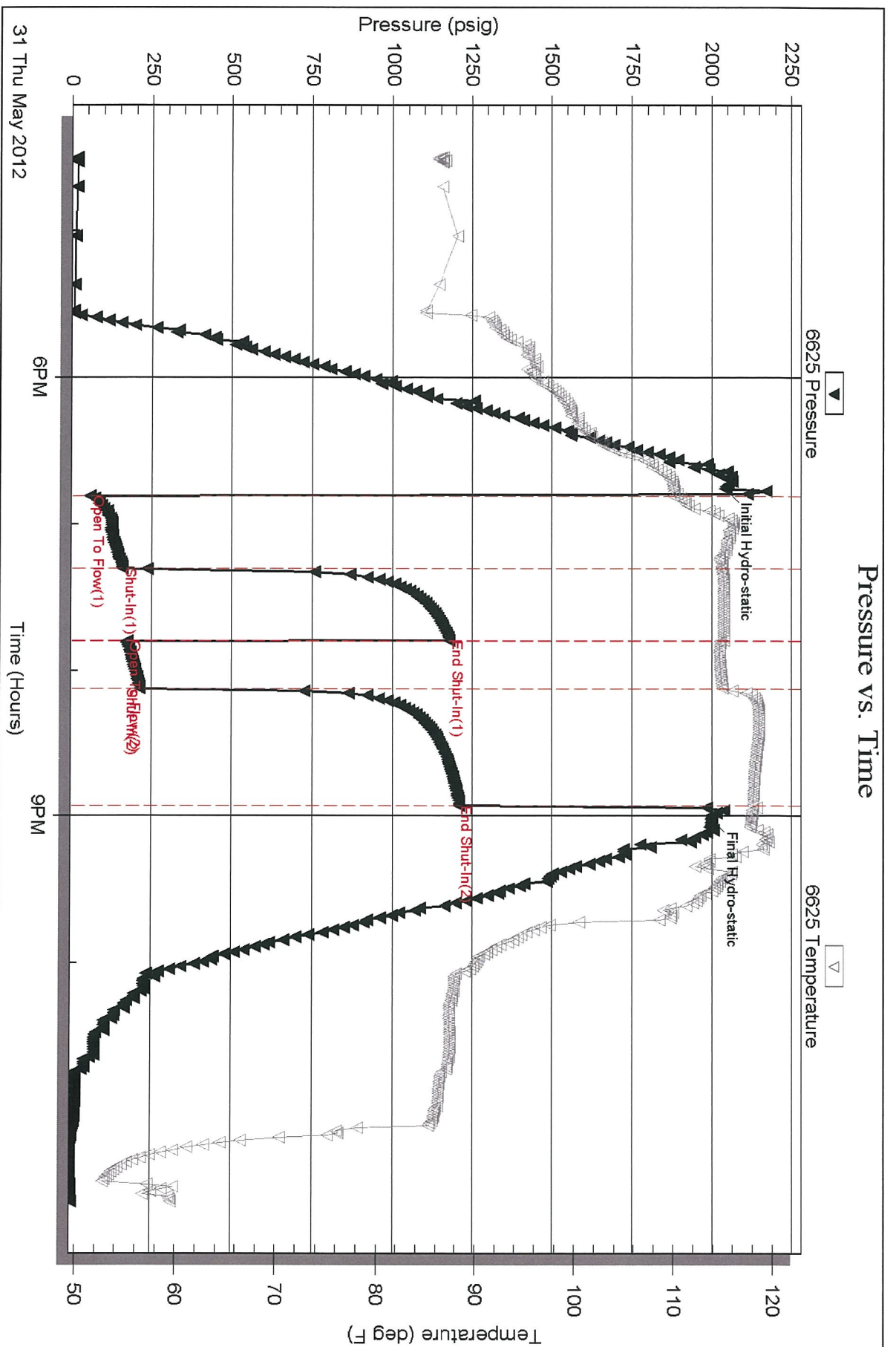
Serial #: 6625

Inside

Palomino Petroleum Inc

Basgal-Santee #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 47161

Printed: 2012.06.01 @ 11:01:32

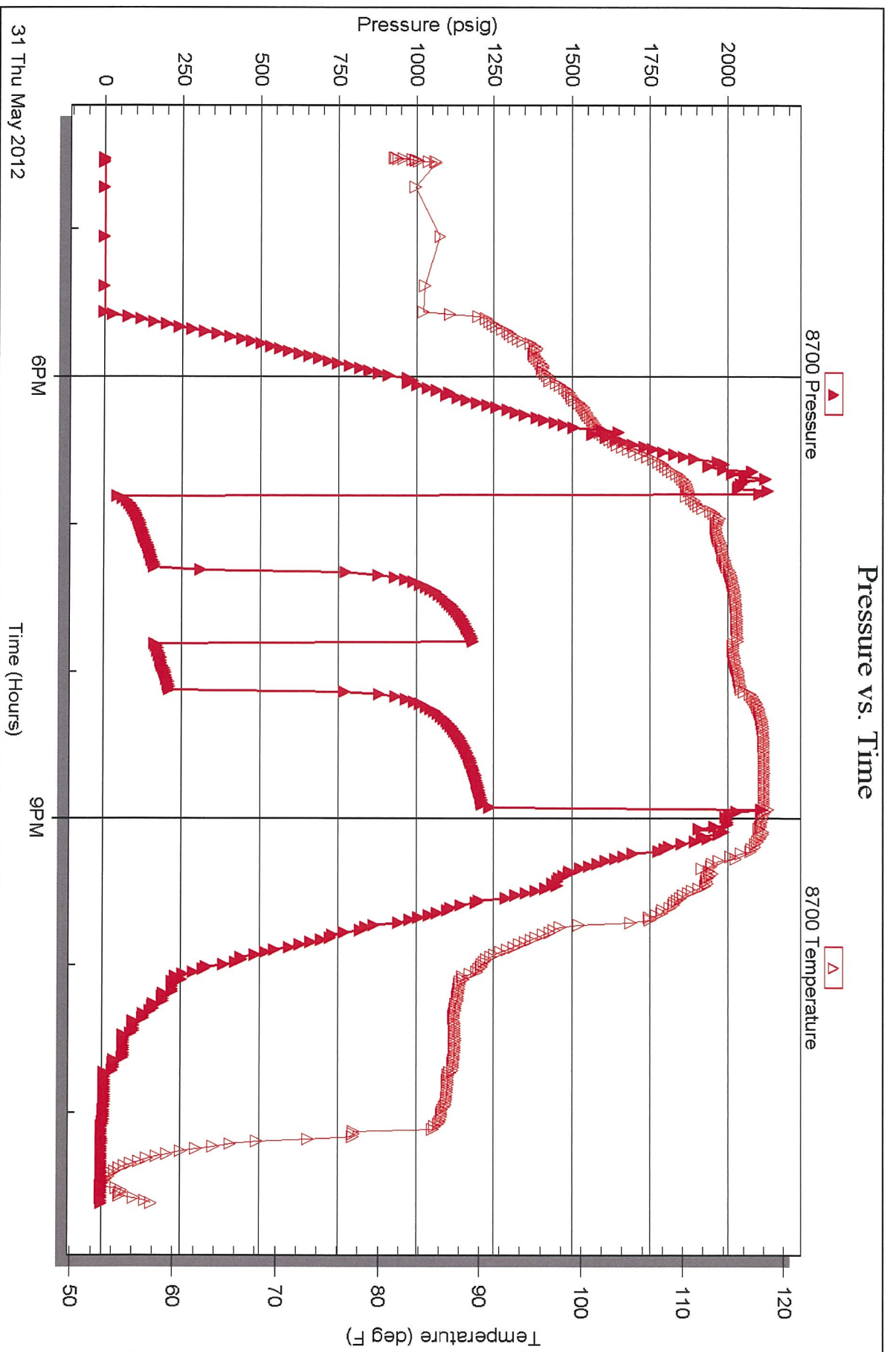
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Outside

Palomino Petroleum Inc

Basgal-Santee #1

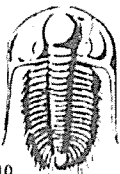
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 47161

Printed: 2012.06.01 @ 11:01:33



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47159

Well Name & No. BASGALL-SANTee #1 Test No. 1 Date 5-29-12
 Company PALOMINO Petroleum Inc Elevation 2290 KB 2283 GL
 Address 4924 SE 84TH ST Newton, Ks 67114-8827
 Co. Rep / Geo. Phil Askey Rig WWrig12
 Location: Sec. 16 Twp. 15^S Rge. 23^W Co. 7290 State Ks

Interval Tested 3722-3750 Zone Tested LKC D-E
 Anchor Length 28 Drill Pipe Run 3601 Mud Wt. 9
 Top Packer Depth 3717 Drill Collars Run 120 Vis 48
 Bottom Packer Depth 3722 Wt. Pipe Run — WL 10
 Total Depth 3750 Chlorides 3500 ppm System LCM 2#

Blow Description IFP - WEAK TO A FAIR BLOW 1/4" TO 4" BLOW
ISIP - NO BLOW
FFP - WEAK BLOW THRU-OUT SURFACE TO 2" BLOW
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>C0</u>				
<u>60</u>	<u>50 CMW</u>		<u>4</u>	<u>61</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 Total 180 BHT 114 Gravity 23 API RW .08 @ 80 °F Chlorides 85000 ppm
 (A) Initial Hydrostatic 1785 ☒ Test 1150 T-On Location 0515
 (B) First Initial Flow 23 ☐ Jars T-Started 0800
 (C) First Final Flow 48 ☐ Safety Joint T-Open 1030
 (D) Initial Shut-In 1214 ☐ Circ Sub T-Pulled 1230
 (E) Second Initial Flow 75 ☐ Hourly Standby T-Out 1448
 (F) Second Final Flow 80 ☒ Mileage 110 RT 170.50 Comments
 (G) Final Shut-In 1168 ☐ Sampler
 (H) Final Hydrostatic 1764 ☐ Straddle ☐ Ruined Shale Packer
☐ Shale Packer ☐ Ruined Packer
☐ Extra Packer ☐ Extra Copies
☐ Extra Recorder
☐ Day Standby
☐ Accessibility

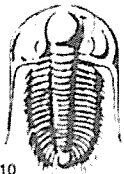
Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Approved By Phil Askey

Our Representative Ray Schwaiger

Thank you

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47160

Well Name & No. BASGALL-Santee #1 Test No. 2 Date 5-31-12
Company PALOMINO Petroleum INC Elevation 2290 KB 2283 GL
Address 4924 SE 84th ST, Newton, KS 67114-8827
Co. Rep / Geo. Phil Askey Rig WW rig 12
Location: Sec. 16 Twp. 15^s Rge. 23^w Co. Trego State Ks

Interval Tested 4169 - 4245 Zone Tested MISS
Anchor Length 76 Drill Pipe Run 4040 Mud Wt. 9.4
Top Packer Depth 4164 Drill Collars Run 120 Vis 52
Bottom Packer Depth 4169 Wt. Pipe Run — WL 10
Total Depth 4245 Chlorides 3500 ppm System LCM 2#

Blow Description IFP - WEAK Blow 1/2" To 1 1/4" Blow
ISIP - NO Blow
FFP - NO Blow
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>CO</u>				
<u>70</u>	<u>OCM</u>		<u>14</u>		<u>86</u>

Rec Total 73 BHT 117 Gravity 35 API RW — @ — ° F Chlorides — ppm
(A) Initial Hydrostatic 2054 ☒ Test 1250 T-On Location 0030
(B) First Initial Flow 39 ☐ Jars T-Started 0210
(C) First Final Flow 54 ☐ Safety Joint T-Open 0450
(D) Initial Shut-In 957 ☐ Circ Sub T-Pulled 0650
(E) Second Initial Flow 60 ☐ Hourly Standby T-Out 0856
(F) Second Final Flow 77 ☒ Mileage 110 RT 170.50 Comments
(G) Final Shut-In 848 ☐ Sampler
(H) Final Hydrostatic 2031 ☐ Straddle

Initial Open 30 ☐ Shale Packer
Initial Shut-In 30 ☐ Extra Packer
Final Flow 30 ☐ Extra Recorder
Final Shut-In 30 ☐ Day Standby
Sub Total 1420.50 MP/DST Disc't

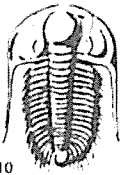
Approved By

Phil Askey

Our Representative

RAY SCHWAGER Thank you

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47161

Well Name & No. BASGALL-Santee #1 Test No. 3 Date 5-31-12
 Company PALOMINO PETROLEUM INC Elevation 2290 KB 2283 GL
 Address 4924 SE 84TH ST. NEWTON, KS 67114-8827
 Co. Rep / Geo. Phil Askey Rig WW rig 12
 Location: Sec. 16 Twp. 15S Rge. 23W Co. Trego State Ks

Interval Tested 4170-4259 Zone Tested MISS
 Anchor Length 89 Drill Pipe Run 4039 Mud Wt. 9.4
 Top Packer Depth 4165 Drill Collars Run 120 Vis 46
 Bottom Packer Depth 4170 Wt. Pipe Run - WL 8.8
 Total Depth 4259 Chlorides 3300 ppm System LCM 1#

Blow Description IFP - WEAK TO A STRONG BLOW IN 13min
ISIP - SURFACE BLOW BACK
FFP - WEAK TO A STRONG BLOW IN 16min
FSIP - SURFACE BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
248	M60	10	85	5	
186	M60	10	60	30	
30	HOT GCM	5	45	50	
		%gas	%oil	%water	%mud
		%gas	%oil	%water	%mud

Rec Total 464 BHT 118 Gravity - API RW - @ - °F Chlorides - ppm
 (A) Initial Hydrostatic 2043 ☒ Test 1250 T-On Location 1520
 (B) First Initial Flow 59 ☐ Jars - T-Started 1630
 (C) First Final Flow 159 ☐ Safety Joint - T-Open 1850
 (D) Initial Shut-In 1180 ☐ Circ Sub - T-Pulled 2055
 (E) Second Initial Flow 174 ☐ Hourly Standby - T-Out 2337
 (F) Second Final Flow 214 ☒ Mileage 170.50 Comments Loaded Tool 12 AM
 (G) Final Shut-In 1208 ☐ Sampler - 6-1-12
 (H) Final Hydrostatic 1998 ☐ Straddle - ☐ Ruined Shale Packer -
☐ Shale Packer - ☐ Ruined Packer -
☐ Extra Packer - ☐ Extra Copies -
☐ Extra Recorder - Sub Total 0
☐ Day Standby - Total 1420.50
☐ Accessibility - MP/DST Disc't -
 Sub Total 1420.50

Initial Open 30
 Initial Shut-In 30
 Final Flow 20
 Final Shut-In 45

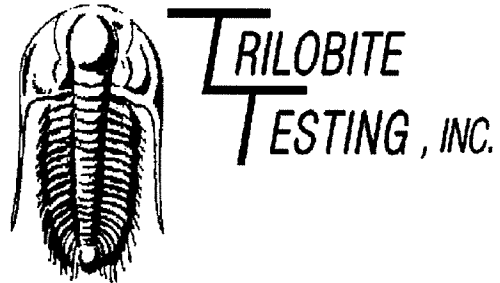
Approved By

Our Representative

Phil Askey

RAY SCHWAGER *THANK YOU*

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.



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St
Newton KS 67114-8827

ATTN: Klee Watchous

Basgall-Santee #1

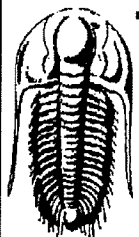
16-15s-23w Trego,KS

Start Date: 2012.05.29 @ 08:00:23

End Date: 2012.05.29 @ 14:48:17

Job Ticket #: 47159 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827
ATTN: Klee Watchous

16-15s-23w Trego,KS

Basgall-Santee #1

Job Ticket: 47159

DST#: 1

Test Start: 2012.05.29 @ 08:00:23

GENERAL INFORMATION:

Formation: **LKC D-E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:34:18

Time Test Ended: 14:48:17

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 42

Interval: 3722.00 ft (KB) To 3750.00 ft (KB) (TVD)

Total Depth: 3750.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2290.00 ft (KB)

2283.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6625 Inside

Press@RunDepth: 80.77 psig @ 3723.00 ft (KB)

Start Date: 2012.05.29

End Date:

2012.05.29

Start Time: 08:00:23

End Time:

14:48:17

Capacity: 8000.00 psig

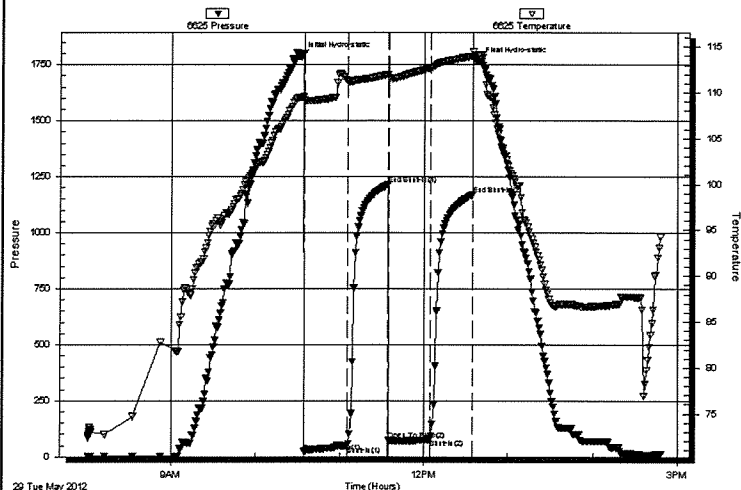
Last Calib.: 2012.05.29

Time On Btm: 2012.05.29 @ 10:31:18

Time Off Btm: 2012.05.29 @ 12:37:47

TEST COMMENT: 30-IFP-w k to a fr bl 1/4" to 4" bl
30-ISIP-no bl
30-FFP-w k bl thru-out surface to 2" bl
30-FSIP-no bl

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1785.85	109.45	Initial Hydro-static
3	23.30	109.19	Open To Flow (1)
34	48.32	111.28	Shut-In(1)
63	1214.31	112.00	End Shut-In(1)
64	75.05	111.61	Open To Flow (2)
93	80.77	112.70	Shut-In(2)
123	1168.88	113.97	End Shut-In(2)
127	1764.71	114.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCMW 4%O35%M61%W	0.30
120.00	CO	1.14

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827
ATTN: Klee Watchous

Job Ticket: 47159 DST#: 1
Test Start: 2012.05.29 @ 08:00:23

Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:34:18
Time Test Ended: 14:48:17

Test Type: Conventional Bottom Hole (Initial)
Tester: Ray Schwager
Unit No: 42

Interval: 3722.00 ft (KB) To 3750.00 ft (KB) (TVD)
Total Depth: 3750.00 ft (KB) (TVD)
Hole Diameter: 7.88 inchesHole Condition: Fair

Reference Elevations: 2290.00 ft (KB)
2283.00 ft (CF)
KB to GR/CF: 7.00 ft

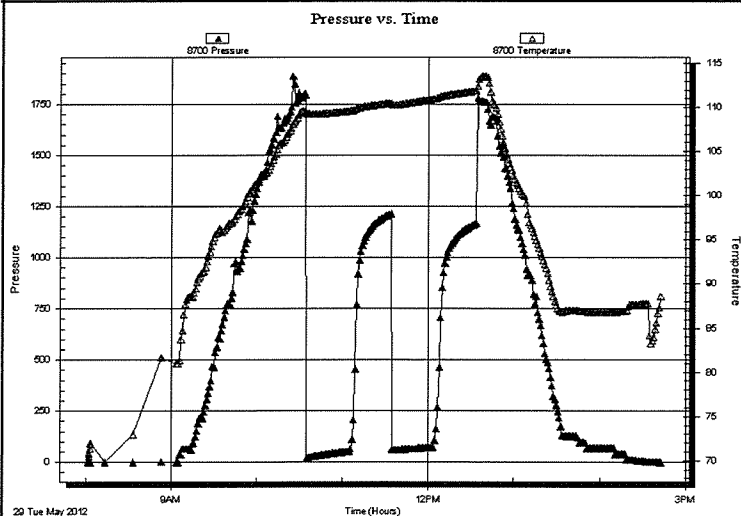
Capacity: 8000.00 psig

Last Calib.: 2012.05.29

Time On Btm:

Time Off Btm:

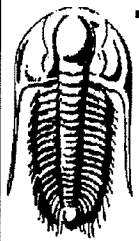
TEST COMMENT: 30-IFP-w k to a fr bl 1/4" to 4 " bl
30-ISIP-no bl
30-FFP-w k bl thru-out surface to 2" bl
30-FSIP-no bl



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery		
Length (ft)	Description	Volume (bbl)
60.00	SOCMW 4% O35%M61%W	0.30
120.00	CO	1.14

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827
ATTN: Klee Watchous

16-15s-23w Trego,KS
Basgall-Santee #1
Job Ticket: 47159 **DST#: 1**
Test Start: 2012.05.29 @ 08:00:23

Tool Information

Drill Pipe:	Length: 3601.00 ft	Diameter: 3.80 inches	Volume: 50.51 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 55000.00 lb
		Total Volume:	51.10 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3722.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3702.00	
Shut In Tool	5.00			3707.00	
Hydraulic tool	5.00			3712.00	
Packer	5.00			3717.00	21.00 Bottom Of Top Packer
Packer	5.00			3722.00	
Stubb	1.00			3723.00	
Recorder	0.00	6625	Inside	3723.00	
Recorder	0.00	8700	Outside	3723.00	
Perforations	24.00			3747.00	
Bullnose	3.00			3750.00	28.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827

ATTN: Klee Watchous

16-15s-23w Trego,KS
Basgall-Santee #1
Job Ticket: 47159 **DST#: 1**
Test Start: 2012.05.29 @ 08:00:23

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 9.95 in³
Resistivity: ohm.m
Salinity: 3500.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 23 deg API
Water Salinity: 85000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SOCMW 4%O35%M61%W	0.295
120.00	CO	1.137

Total Length: 180.00 ft Total Volume: 1.432 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .08 @ 80F

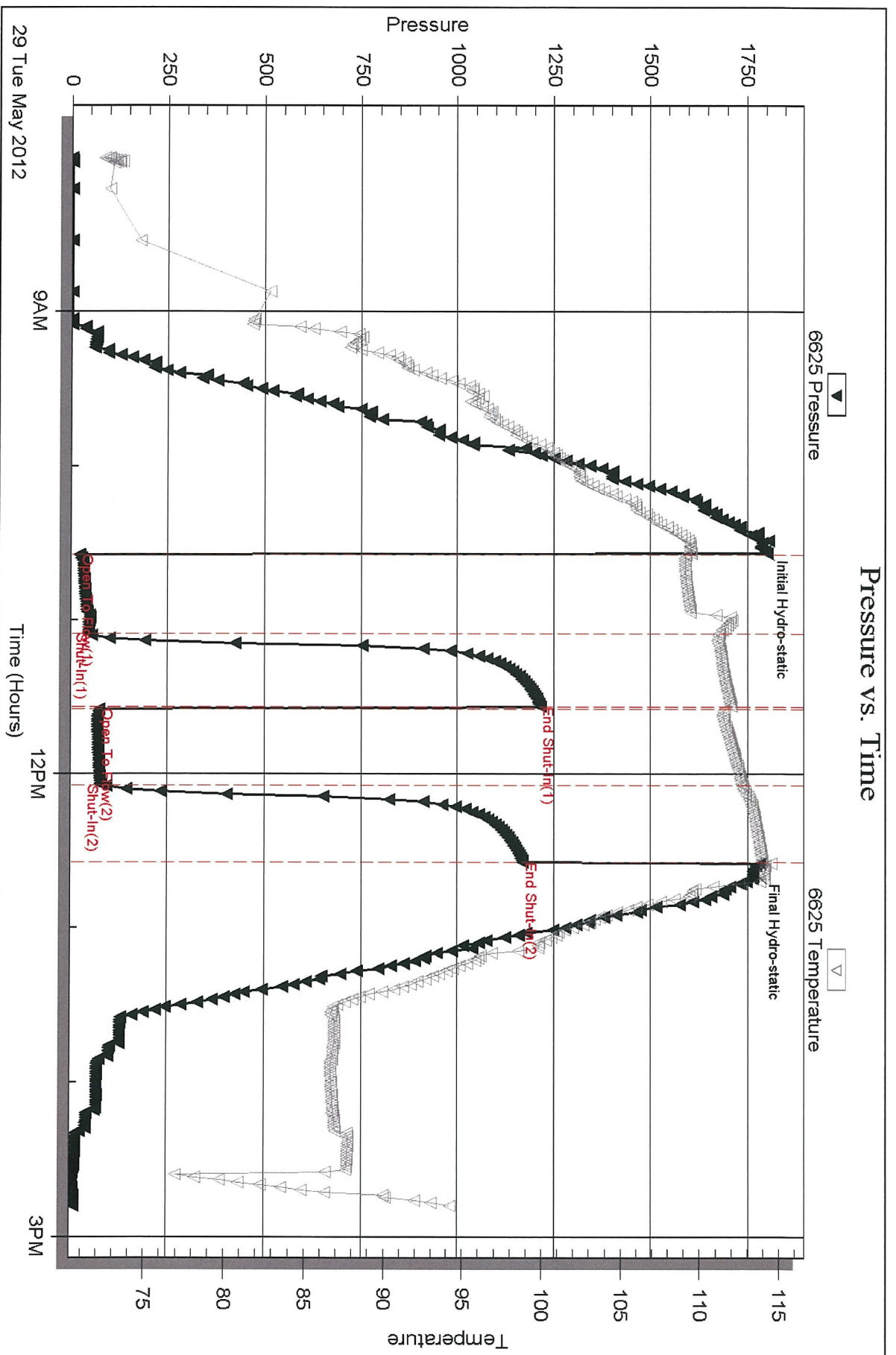
Serial #: 6625

Inside

Palomino Petroleum Inc

Basgal-Santee #1

DST Test Number: 1



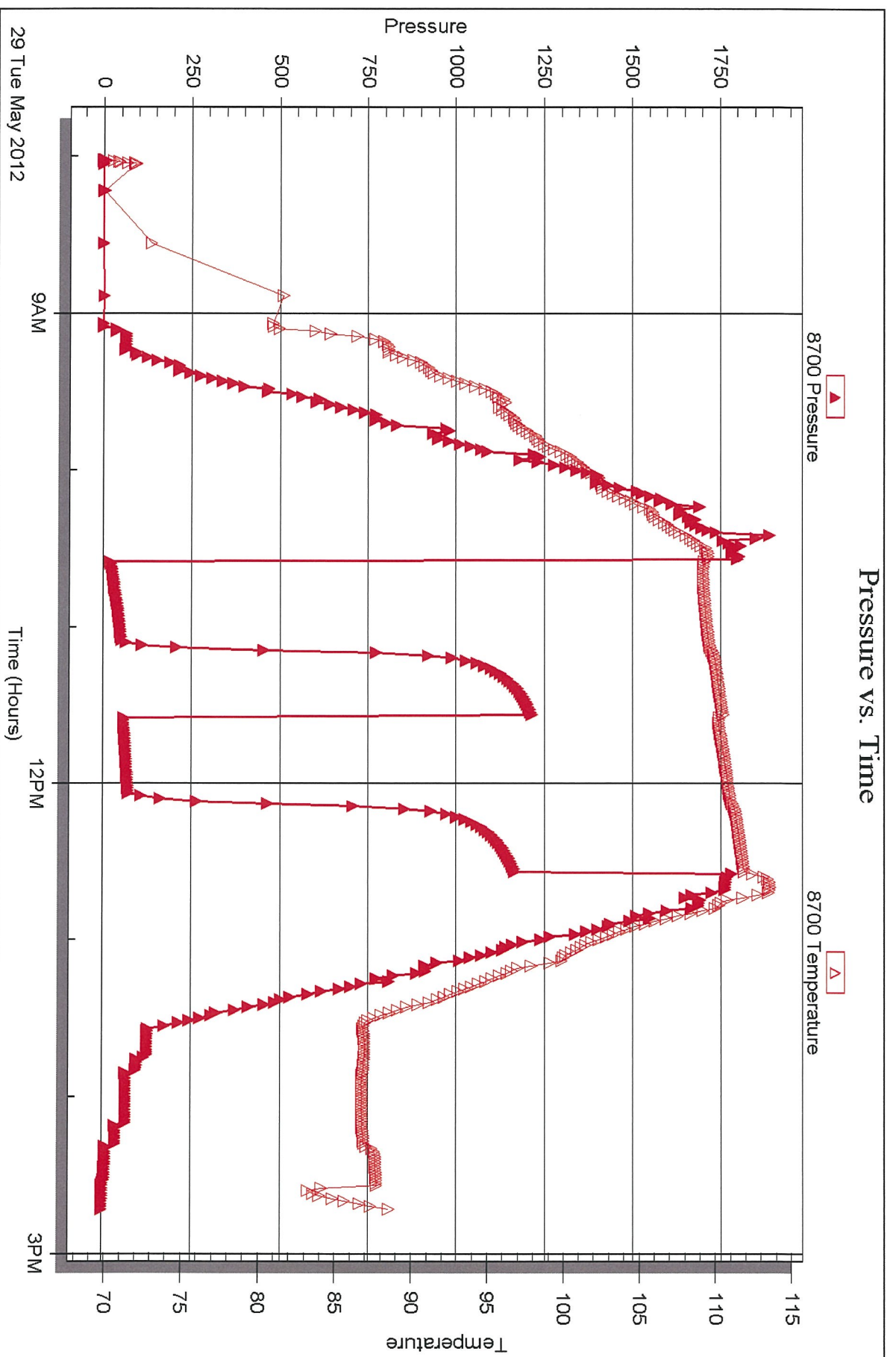
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Outside

Palomino Petroleum Inc

Basgal-Santee #1

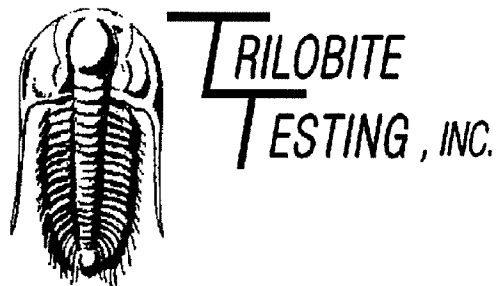
DST Test Number: 1



Trilobe Testing, Inc

Ref. No: 47159

Printed: 2012.06.01 @ 11:03:18



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St
Newton KS 67114-8827

ATTN: Klee Watchous

Basgall-Santee #1

16-15s-23w Trego,KS

Start Date: 2012.05.31 @ 02:10:43

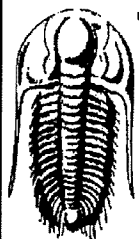
End Date: 2012.05.31 @ 08:56:37

Job Ticket #: 47160 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827

ATTN: Klee Watchous

16-15s-23w Trego,KS

Basgall-Santee #1

Job Ticket: 47160

DST#: 2

Test Start: 2012.05.31 @ 02:10:43

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:52:38

Time Test Ended: 08:56:37

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 42

Interval: 4169.00 ft (KB) To 4245.00 ft (KB) (TVD)

Total Depth: 4245.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2290.00 ft (KB)

2283.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6625 Inside

Press@RunDepth: 77.01 psig @ 4178.00 ft (KB)

Start Date: 2012.05.31

End Date: 2012.05.31

Start Time: 02:10:43

End Time: 08:56:37

Capacity: 8000.00 psig

Last Calib.: 2012.05.31

Time On Btm: 2012.05.31 @ 04:49:38

Time Off Btm: 2012.05.31 @ 06:59:37

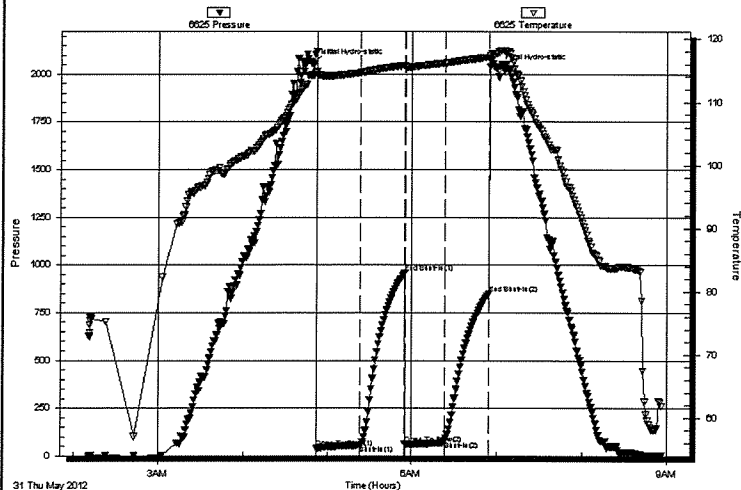
TEST COMMENT: 30-IFP-w k bl 1/2" to 1 1/4" bl

30-ISIP-no bl

30-FFP-no bl

30-FSIP-no bl

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2054.66	114.31	Initial Hydro-static
3	39.91	114.34	Open To Flow (1)
34	54.96	114.60	Shut-In(1)
65	957.15	115.81	End Shut-In(1)
66	60.71	115.61	Open To Flow (2)
94	77.01	116.16	Shut-In(2)
125	848.19	117.10	End Shut-In(2)
130	2031.66	117.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	CO	0.01
70.00	OCM 14%O86%M	0.34

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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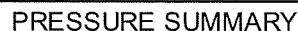
Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827
ATTN: Klee Watchous

Job Ticket: 47160 DST#: 2
Test Start: 2012.05.31 @ 02:10:43

KB to GR/CF: 7.00 ft

Time Off Btm:

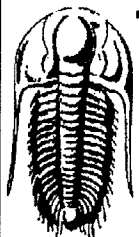
30-FSIP-no bl



Recovery

Gas Rates

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc

16-15s-23w Trego,KS

4924 SE 84th St
New ton KS 67114-8827

Basgall-Santee #1

Job Ticket: 47160

DST#: 2

ATTN: Klee Watchous

Test Start: 2012.05.31 @ 02:10:43

Tool Information

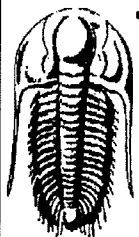
Drill Pipe:	Length: 4040.00 ft	Diameter: 3.80 inches	Volume: 56.67 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume:	57.26 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4169.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	97.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4149.00	
Shut In Tool	5.00			4154.00	
Hydraulic tool	5.00			4159.00	
Packer	5.00			4164.00	21.00 Bottom Of Top Packer
Packer	5.00			4169.00	
Stubb	1.00			4170.00	
Perforations	8.00			4178.00	
Recorder	0.00	6625	Inside	4178.00	
Recorder	0.00	8700	Outside	4178.00	
Blank Spacing	64.00			4242.00	
Bullnose	3.00			4245.00	76.00 Bottom Packers & Anchor

Total Tool Length: 97.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827

ATTN: Klee Watchous

16-15s-23w Trego,KS
Basgall-Santee #1
Job Ticket: 47160 **DST#: 2**
Test Start: 2012.05.31 @ 02:10:43

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 9.94 in³
Resistivity: ohm.m
Salinity: 3500.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 35 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	CO	0.015
70.00	OCM 14%O86%M	0.344

Total Length: 73.00 ft Total Volume: 0.359 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

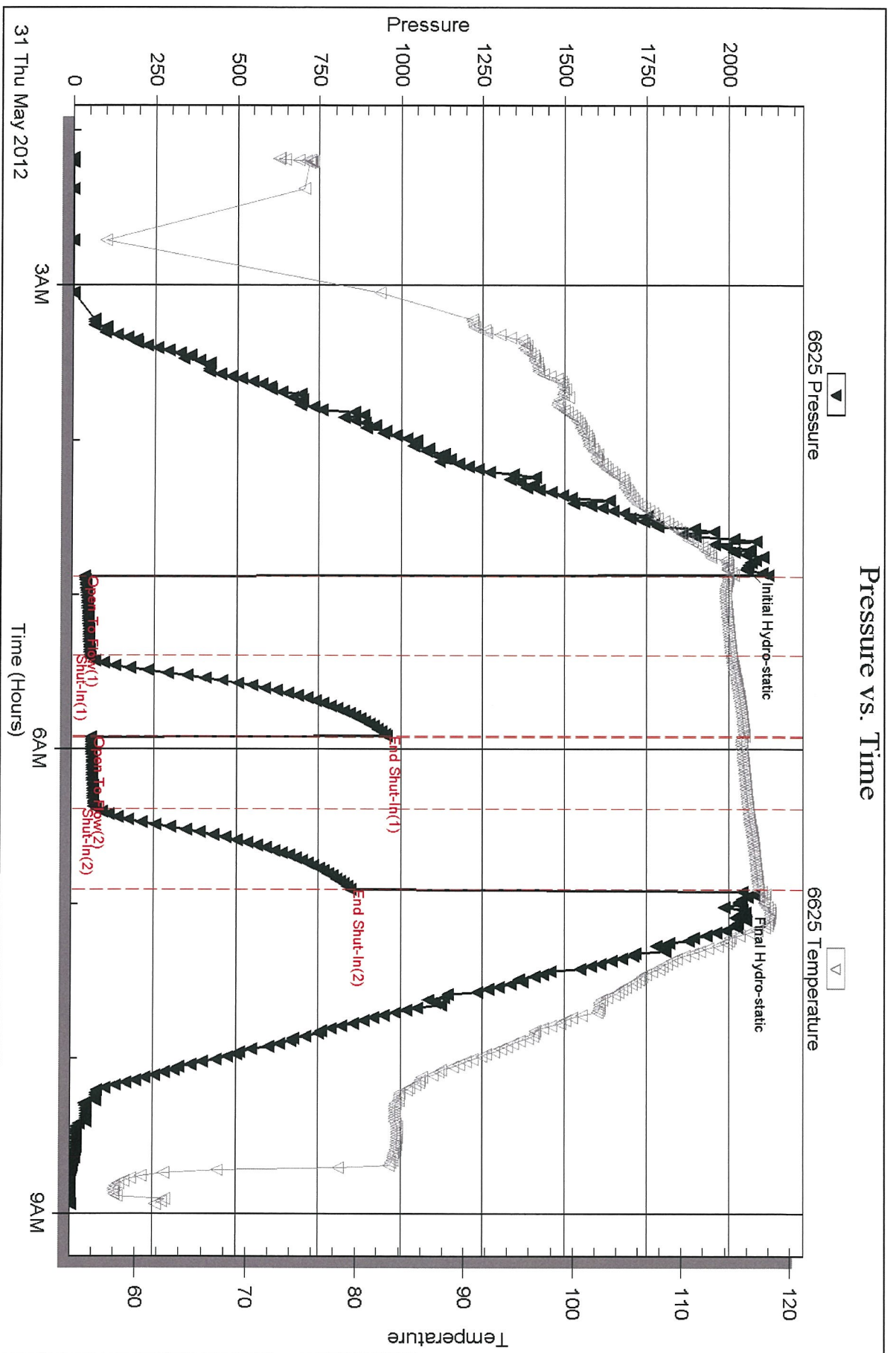
Serial #: 6625

Inside

Palomino Petroleum Inc

Basgal-Santee #1

DST Test Number: 2



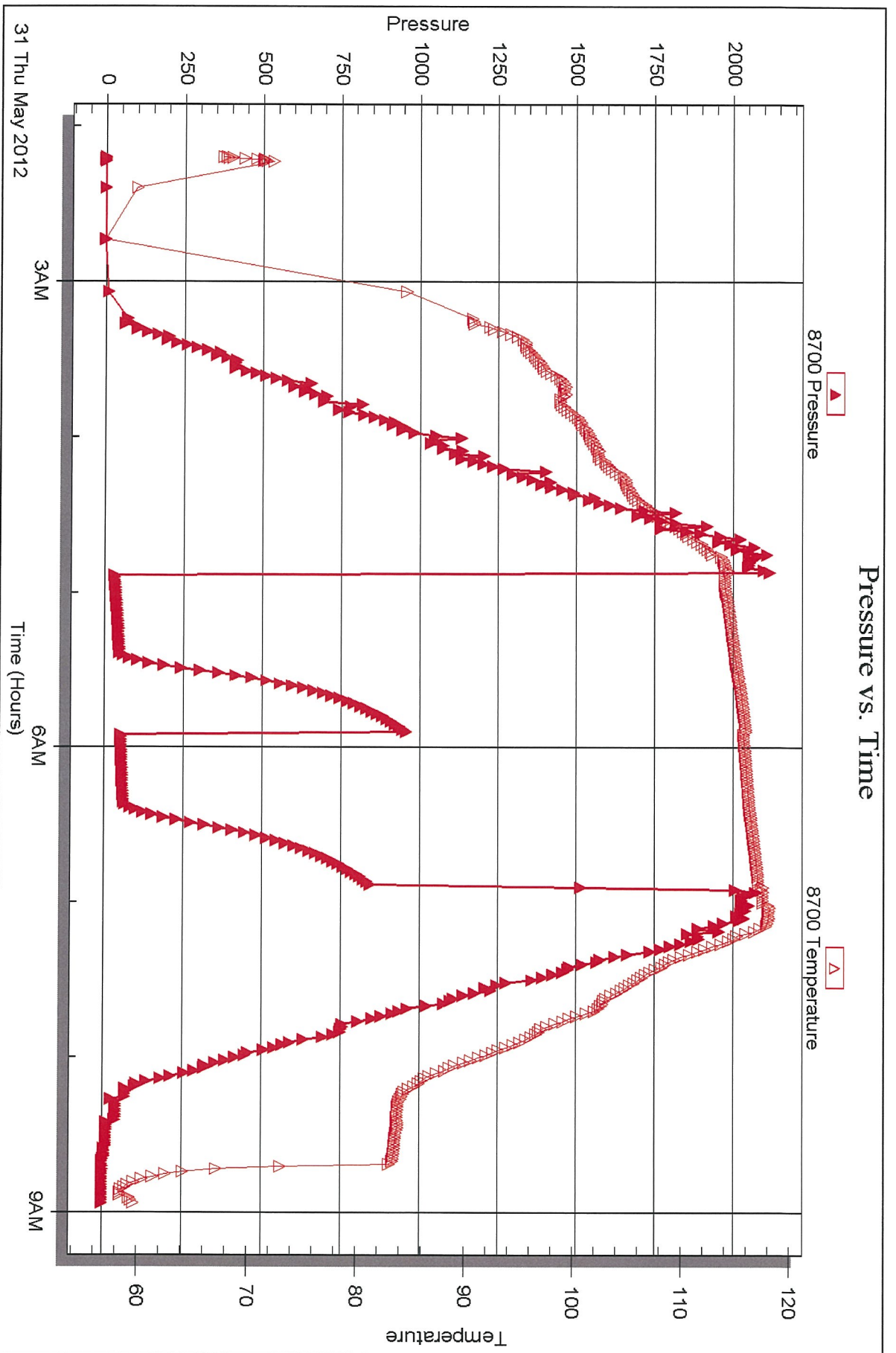
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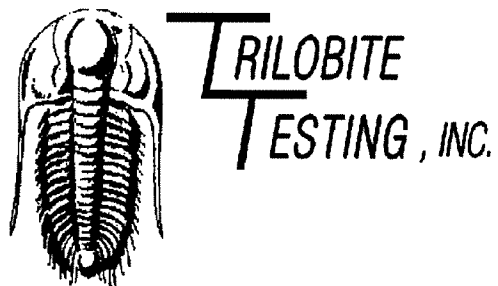
Outside

Palomino Petroleum Inc

Basgal-Santee #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St
Newton KS 67114-8827

ATTN: Klee Watchous

Basgall-Santee #1

16-15s-23w Trego,KS

Start Date: 2012.05.31 @ 16:30:06

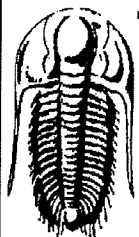
End Date: 2012.05.31 @ 23:37:30

Job Ticket #: 47161 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827
ATTN: Klee Watchous

16-15s-23w Trego,KS

Basgall-Santee #1

Job Ticket: 47161

DST#: 3

Test Start: 2012.05.31 @ 16:30:06

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:48:31

Time Test Ended: 23:37:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 42

Interval: **4170.00 ft (KB) To 4259.00 ft (KB) (TVD)**

Total Depth: 4259.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2290.00 ft (KB)

2283.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6625

Inside

Press@RunDepth: 214.16 psig @ 4172.00 ft (KB)

Start Date: 2012.05.31

End Date:

2012.05.31

Start Time: 16:30:06

End Time:

23:37:30

Capacity: 8000.00 psig

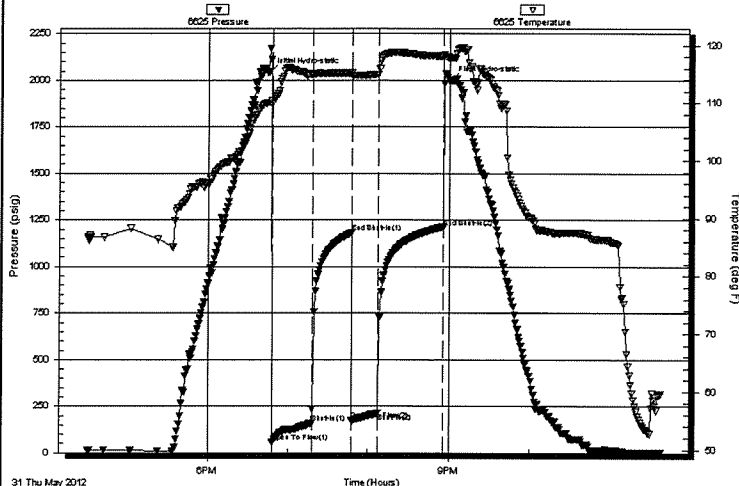
Last Calib.: 2012.05.31

Time On Btm: 2012.05.31 @ 18:45:31

Time Off Btm: 2012.05.31 @ 21:01:00

TEST COMMENT: 30-IFP-w k to strg in 13 min
30-ISIP-surface bl bk
20-FFP-w k to strg in 16 min
45-FSIP-no bl bk

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2043.37	110.05	Initial Hydro-static
3	59.11	110.03	Open To Flow (1)
33	159.24	114.89	Shut-In (1)
62	1180.37	115.17	End Shut-In (1)
63	174.81	114.77	Open To Flow (2)
82	214.16	114.98	Shut-In (2)
130	1208.88	118.10	End Shut-In (2)
136	1998.13	117.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	MGO 10%G5%M85%O	2.39
186.00	MGO 10%G30%M60%O	2.61
30.00	HO&GCM 5%G45%O50%M	0.42

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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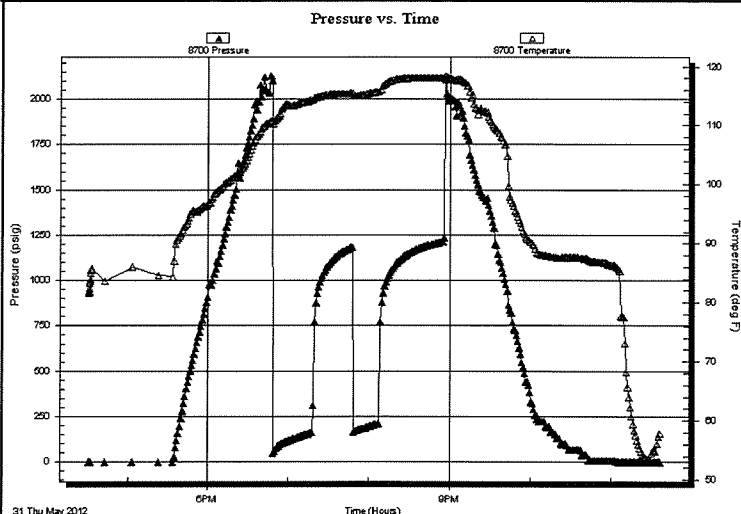
Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827
ATTN: Klee Watchous

Job Ticket: 47161 DST#: 3
Test Start: 2012.05.31 @ 16:30:06

Formation:	Miss				
Deviated:	No	Whipstock:	ft (KB)	Test Type:	Conventional Bottom Hole (Reset)
Time Tool Opened:	18:48:31			Tester:	Ray Schwager
Time Test Ended:	23:37:30			Unit No:	42
Interval:	4170.00 ft (KB) To	4259.00 ft (KB) (TVD)		Reference Elevations:	2290.00 ft (KB)
Total Depth:	4259.00 ft (KB) (TVD)				2283.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition:	Fair	KB to GR/CF:	7.00 ft

Serial #:	8700	Outside			
Press@RunDepth:	psig	@	4172.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2012.05.31	End Date:	2012.05.31	Last Calib.:	2012.05.31
Start Time:	16:31:06	End Time:	23:36:30	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: 30-IFP-w k to strg in 13 min
30-ISIP-surface bl bk
20-FFP-w k to strg in 16 min
45-FSIP-no bl bk

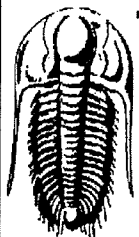


Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Length (ft)	Description	Volume (bbl)
248.00	MGO 10%G5%M85%O	2.39
186.00	MGO 10%G30%M60%O	2.61
30.00	HO&GCM 5%G45%O50%M	0.42

* Recovery from multiple tests

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827

ATTN: Klee Watchous

16-15s-23w Trego,KS

Basgall-Santee #1

Job Ticket: 47161

DST#: 3

Test Start: 2012.05.31 @ 16:30:06

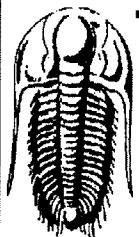
Tool Information

Drill Pipe:	Length: 4039.00 ft	Diameter: 3.80 inches	Volume: 56.66 bbl	Tool Weight:	2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 57.25 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	4170.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	89.00 ft				
Tool Length:	110.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4150.00	
Shut In Tool	5.00			4155.00	
Hydraulic tool	5.00			4160.00	
Packer	5.00			4165.00	21.00 Bottom Of Top Packer
Packer	5.00			4170.00	
Stubb	1.00			4171.00	
Perforations	1.00			4172.00	
Recorder	0.00	6625	Inside	4172.00	
Recorder	0.00	8700	Outside	4172.00	
Blank Spacing	65.00			4237.00	
Perforations	19.00			4256.00	
Bullnose	3.00			4259.00	89.00 Bottom Packers & Anchor

Total Tool Length: 110.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc
4924 SE 84th St
New ton KS 67114-8827

ATTN: Klee Watchous

16-15s-23w Trego,KS
Basgall-Santee #1
Job Ticket: 47161 **DST#: 3**
Test Start: 2012.05.31 @ 16:30:06

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 46.00 sec/qt
Water Loss: 8.76 in³
Resistivity: ohm.m
Salinity: 3300.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	MGO 10%G5%M85%O	2.386
186.00	MGO 10%G30%M60%O	2.609
30.00	HO&GCM 5%G45%O50%M	0.421

Total Length: 464.00 ft Total Volume: 5.416 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

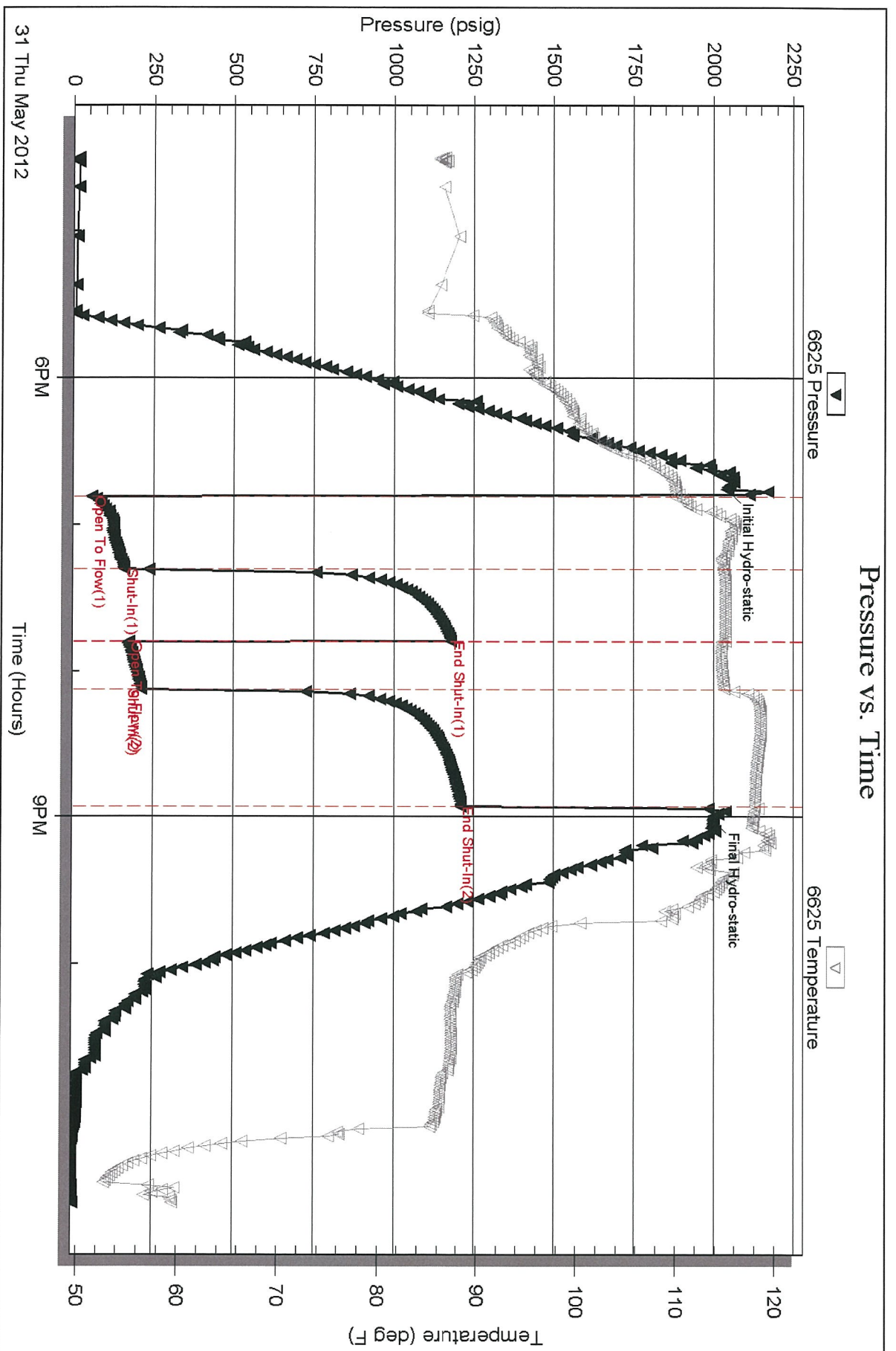
Serial #: 6625

Inside

Palomino Petroleum Inc

Basgal-Santee #1

DST Test Number: 3

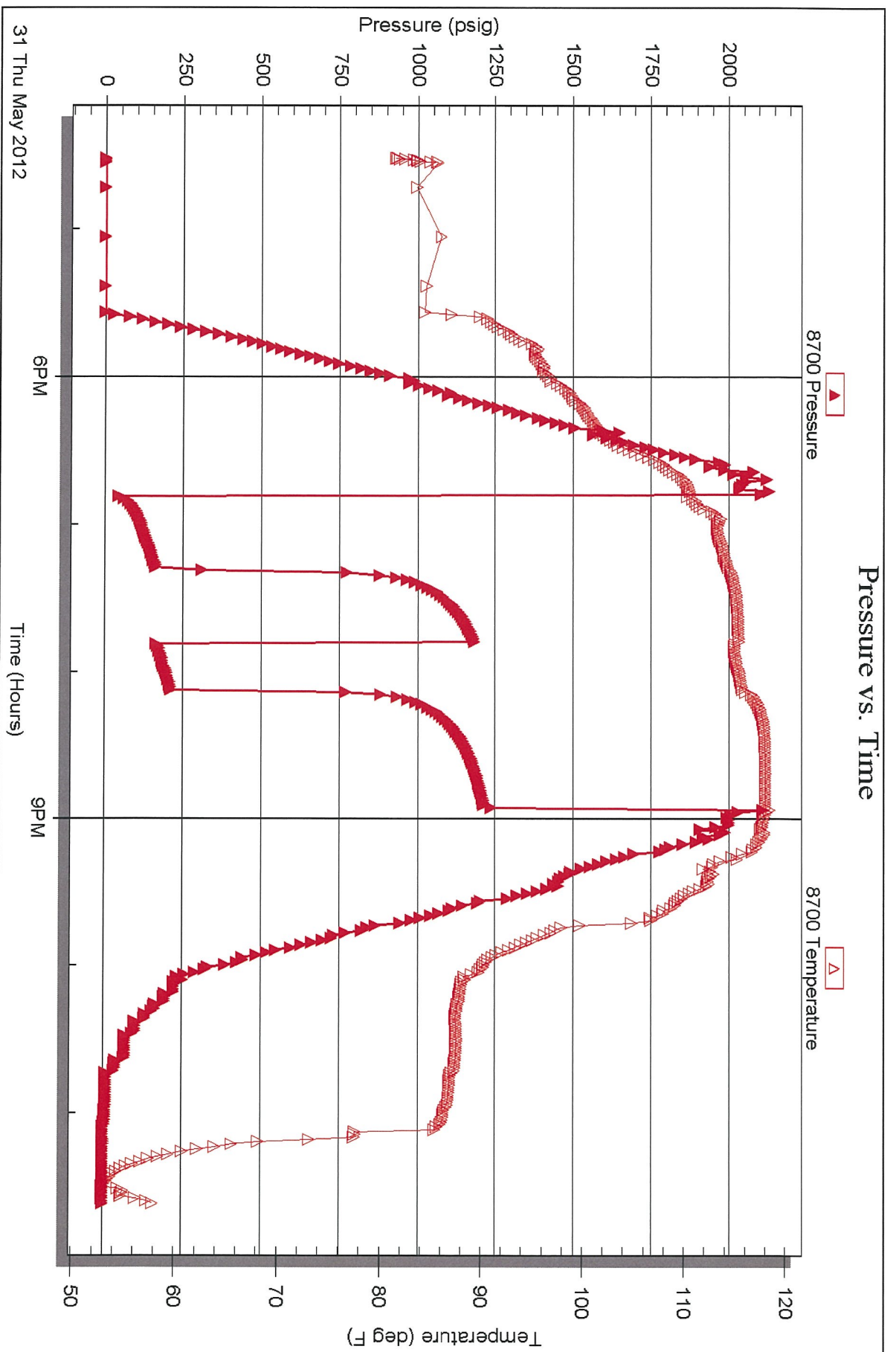


Serial #: 8700

Outside Palomino Petroleum Inc

Basgal-Santee #1

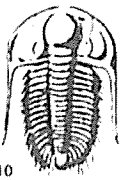
DST Test Number: 3



Tribble Testing, Inc

Ref. No: 47161

Printed: 2012.06.01 @ 11:01:33



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47159

Well Name & No. BASGALL-Santee #1 Test No. 1 Date 5-29-12
 Company PALOMINO Petroleum Inc Elevation 2290 KB 2283 GL
 Address 4924 SE 84th ST Newton, Ks 67114-8827
 Co. Rep / Geo. Phil Askey Rig WWrig 12
 Location: Sec. 16 Twp. 15^s Rge. 23^w Co. 7290 State Ks

Interval Tested 3722-3750 Zone Tested LKC D-E
 Anchor Length 28 Drill Pipe Run 3601 Mud Wt. 9
 Top Packer Depth 3717 Drill Collars Run 120 Vis 48
 Bottom Packer Depth 3722 Wt. Pipe Run — WL 10
 Total Depth 3750 Chlorides 3500 ppm System LCM 2#

Blow Description IFP - WEAK TO A FAIR BLOW 1/4" TO 4" BLOW
ISIP - NO BLOW
FFP - WEAK BLOW THRU-OUT SURFACE TO 2' BLOW
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>C0</u>				
<u>60</u>	<u>50 CMW</u>		<u>4</u>	<u>61</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 Total 180 BHT 114 Gravity 23 API RW .08 @ 80 °F Chlorides 85000 ppm
 (A) Initial Hydrostatic 1785 ☒ Test 1150
 (B) First Initial Flow 23 ☐ Jars
 (C) First Final Flow 48 ☐ Safety Joint
 (D) Initial Shut-In 1214 ☐ Circ Sub
 (E) Second Initial Flow 75 ☐ Hourly Standby
 (F) Second Final Flow 80 ☒ Mileage 110 RT 170.50
 (G) Final Shut-In 1168 ☐ Sampler
 (H) Final Hydrostatic 1764 ☐ Straddle

T-On Location 0515
 T-Started 0800
 T-Open 1030
 T-Pulled 1230
 T-Out 1448

Comments

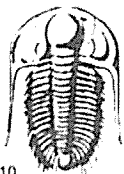
Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Sub Total 0
 Total 1320.50
 MP/DST Disc't
 Sub Total 1320.50

Approved By Phil Askey

Our Representative Ray Schwaiger Thank you

Trilobite Testing Inc. shall not be liable for damaged or 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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47160

Well Name & No. BASGALL-Santee #1 Test No. 2 Date 5-31-12
Company PALOMINO Petroleum INC Elevation 2290 KB 2283 GL
Address 4924 SE 84th ST, Newton, KS 67114-8827
Co. Rep / Geo. Phil Askey Rig WW-1912
Location: Sec. 16 Twp. 15^s Rge. 23^w Co. Trego State Ks

Interval Tested 4169-4245 Zone Tested MISS
Anchor Length 76 Drill Pipe Run 4040 Mud Wt. 9.4
Top Packer Depth 4164 Drill Collars Run 120 Vis 52
Bottom Packer Depth 4169 Wt. Pipe Run — WL 10
Total Depth 4245 Chlorides 3500 ppm System LCM 2#

Blow Description IFP - WEAK Blow 1/2" To 1 1/4" Blow
ISIP - NO Blow
FFP - NO Blow
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
3	CO				
70	OCM	14		86	

Rec Total 73 BHT 117 Gravity 35 API RW — @ — °F Chlorides — ppm
(A) Initial Hydrostatic 2054 ☒ Test 1250 T-On Location 0030
(B) First Initial Flow 39 ☐ Jars T-Started 0210
(C) First Final Flow 54 ☐ Safety Joint T-Open 0450
(D) Initial Shut-In 957 ☐ Circ Sub T-Pulled 0650
(E) Second Initial Flow 60 ☐ Hourly Standby T-Out 0856
(F) Second Final Flow 77 ☒ Mileage 110 RT 170.50 Comments
(G) Final Shut-In 848 ☐ Sampler
(H) Final Hydrostatic 2031 ☐ Straddle ☐ Ruined Shale Packer
☐ Shale Packer ☐ Ruined Packer
☐ Extra Packer ☐ Extra Copies
☐ Extra Recorder Sub Total 0
☐ Day Standby Total 1420.50
☐ Accessibility MP/DST Disc't

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

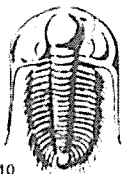
Approved By

Phil Askey

Our Representative

Ray Schwager Thank you
404

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47161

Well Name & No. BASGALL-SANTee #1 Test No. 3 Date 5-31-12
 Company PALOMINO PETROLEUM INC Elevation 2290 KB 2283 GL
 Address 4924 SE 84TH ST. NEWTON, KS 67114-8827
 Co. Rep / Geo. Phil Askey Rig WW rig 12
 Location: Sec. 16 Twp. 15S Rge. 23W Co. Trego State Ks

Interval Tested 4170-4259 Zone Tested MISS
 Anchor Length 89 Drill Pipe Run 4039 Mud Wt. 9.4
 Top Packer Depth 4165 Drill Collars Run 120 Vis 46
 Bottom Packer Depth 4170 Wt. Pipe Run - WL 8.8
 Total Depth 4259 Chlorides 3300 ppm System LCM 1#

Blow Description IFP - WEAK TO A STRONG BLOW IN 13 MIN
ISIP - SURFACE BLOW BACK
FFP - WEAK TO A STRONG BLOW IN 16 MIN
FSIP - SURFACE BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
248	M60	10	85	5	
186	M60	10	60	30	
30	H046CM	5	45	50	
		%gas	%oil	%water	%mud
		%gas	%oil	%water	%mud

Rec Total 464 BHT 118 Gravity - API RW - @ - °F Chlorides - ppm
 (A) Initial Hydrostatic 2043 ☒ Test 1250 T-On Location 1520
 (B) First Initial Flow 59 ☐ Jars T-Started 1630
 (C) First Final Flow 159 ☐ Safety Joint T-Open 1850
 (D) Initial Shut-In 1180 ☐ Circ Sub T-Pulled 2055
 (E) Second Initial Flow 174 ☐ Hourly Standby T-Out 2337
 (F) Second Final Flow 214 ☒ Mileage 170.50 Comments Loaded Tool 12 AM
 (G) Final Shut-In 1208 ☐ Sampler 6-1-12
 (H) Final Hydrostatic 1998 ☐ Straddle ☐ Ruined Shale Packer
☐ Shale Packer ☐ Ruined Packer
☐ Extra Packer ☐ Extra Copies

Initial Open 30
 Initial Shut-In 30
 Final Flow 20
 Final Shut-In 45
 Sub Total 1420.50
 Total 1420.50
 MP/DST Disc't -

Approved By Phil Askey Our Representative RAY SCHWAGER THANK YOU

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.