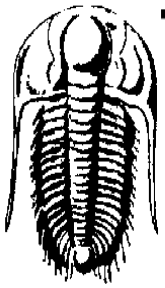


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Sam Gary Jr & Associates**

1515 Wynkoop Ste 700
Denver Co 80202

ATTN: Clayton Camozzi

Scheck #1-10

10-16s-16w Rush,KS

Start Date: 2012.05.01 @ 10:34:05
End Date: 2012.05.01 @ 19:04:29
Job Ticket #: 47268 DST #: 1

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

Printed: 2012.05.04 @ 14:19:33

DRILL STEM TEST REPORT

Sam Gary Jr & Associates

1515 Wynkoop Ste 700
Denver Co 80202

ATTN: Clayton Camozzi

10-16s-16w Rush,KS

Scheck #1-10

Job Ticket: 47268 **DST#: 1**

Test Start: 2012.05.01 @ 10:34:05

GENERAL INFORMATION:

Formation: **LKC"C-D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:14:00
Time Test Ended: 19:04:29

Test Type: Conventional Bottom Hole (Initial)
Tester: Andy Carreira
Unit No: 39

Interval: 3220.00 ft (KB) To 3260.00 ft (KB) (TVD)
Total Depth: 3260.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

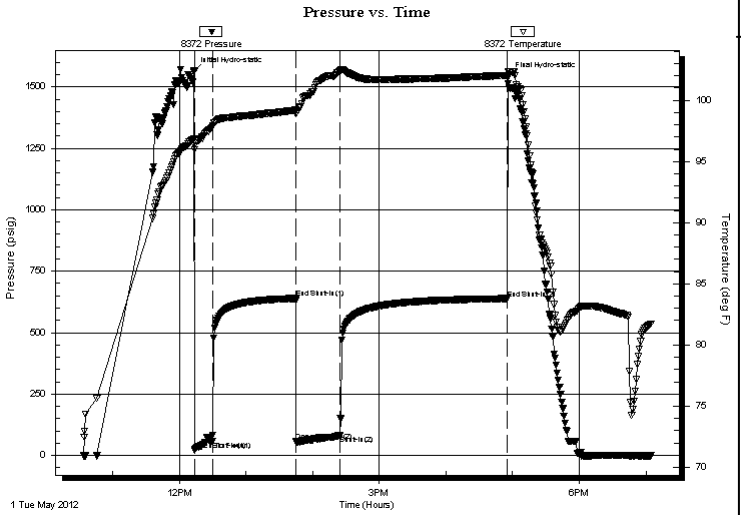
Reference Elevations: 1957.00 ft (KB)
1949.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8372 **Outside**

Press@RunDepth: 80.76 psig @ 3221.00 ft (KB)
Start Date: 2012.05.01 End Date: 2012.05.01
Start Time: 10:34:05 End Time: 19:04:29

Capacity: 8000.00 psig
Last Calib.: 2012.05.01
Time On Btm: 2012.05.01 @ 12:13:20
Time Off Btm: 2012.05.01 @ 16:55:50

TEST COMMENT: IF:(15min) No Blow , Flushed Tool, Surge, Built to 1/2".
ISI:(75min) No Return
FF:(40min) Built to 3"
FSI:(150min) Return Surface Blow 8 min after bleed off, Died in 20 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1562.59	96.84	Initial Hydro-static
1	20.97	95.97	Open To Flow (1)
17	57.16	97.83	Shut-In(1)
92	639.27	99.19	End Shut-In(1)
92	57.21	98.90	Open To Flow (2)
132	80.76	102.37	Shut-In(2)
282	638.71	102.04	End Shut-In(2)
283	1540.22	102.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
175.00	GOCMW g=10% o=15% m=35% w=40%	2.18
0.00	GIP=175ft	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Sam Gary Jr & Associates

1515 Wynkoop Ste 700
Denver Co 80202

ATTN: Clayton Camozzi

10-16s-16w Rush,KS

Scheck #1-10

Job Ticket: 47268 **DST#: 1**

Test Start: 2012.05.01 @ 10:34:05

GENERAL INFORMATION:

Formation: **LKC"C-D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:14:00
Time Test Ended: 19:04:29

Test Type: Conventional Bottom Hole (Initial)
Tester: Andy Carreira
Unit No: 39

Interval: 3220.00 ft (KB) To 3260.00 ft (KB) (TVD)
Total Depth: 3260.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

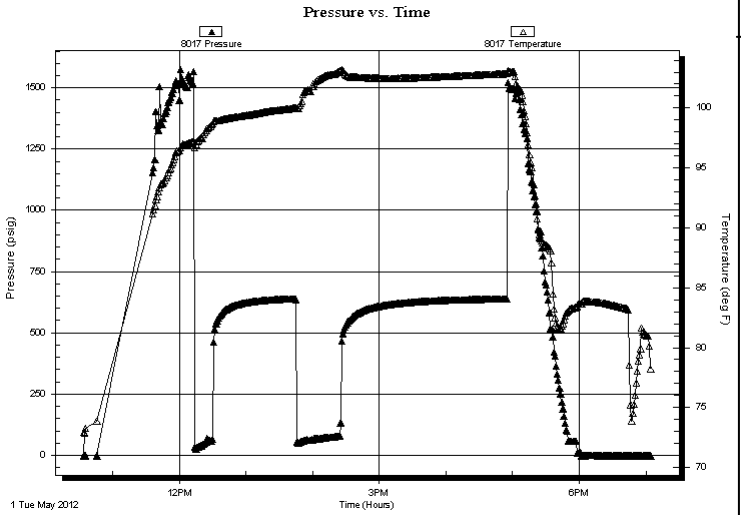
Reference Elevations: 1957.00 ft (KB)
1949.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8017 **Inside**

Press@RunDepth: psig @ 3221.00 ft (KB)
Start Date: 2012.05.01 End Date: 2012.05.01
Start Time: 10:34:05 End Time: 19:04:29

Capacity: 8000.00 psig
Last Calib.: 2012.05.01
Time On Btm:
Time Off Btm:

TEST COMMENT: IF:(15min) No Blow , Flushed Tool, Surge, Built to 1/2".
ISI:(75min) No Return
FF:(40min) Built to 3"
FSI:(150min) Return Surface Blow 8 min after bleed off, Died in 20 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
175.00	GOCMW g=10% o=15% m=35% w=40%	2.18
0.00	GIP=175ft	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Sam Gary Jr & Associates

1515 Wynkoop Ste 700
Denver Co 80202

ATTN: Clayton Camozzi

10-16s-16w Rush,KS

Scheck #1-10

Job Ticket: 47268 **DST#: 1**

Test Start: 2012.05.01 @ 10:34:05

GENERAL INFORMATION:

Formation: **LKC"C-D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:14:00
Time Test Ended: 19:04:29

Test Type: Conventional Bottom Hole (Initial)
Tester: Andy Carreira
Unit No: 39

Interval: 3220.00 ft (KB) To 3260.00 ft (KB) (TVD)
Total Depth: 3260.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

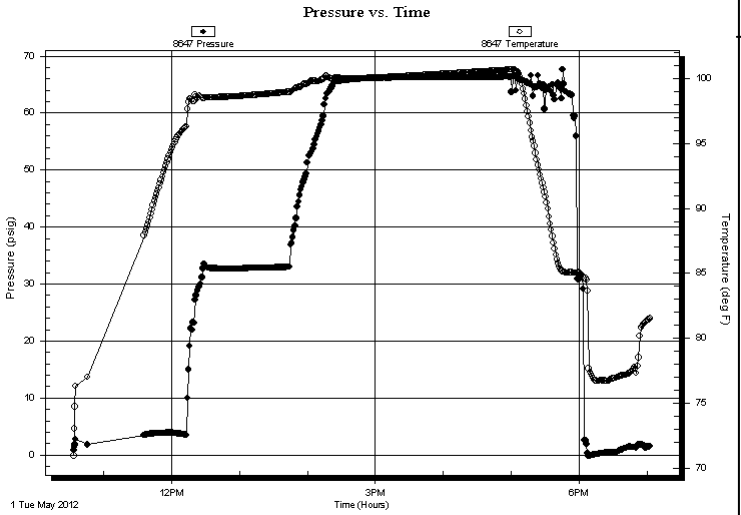
Reference Elevations: 1957.00 ft (KB)
1949.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8647 **Fluid**

Press@RunDepth: psig @ 3184.00 ft (KB)
Start Date: 2012.05.01 End Date: 2012.05.01
Start Time: 10:34:05 End Time: 19:02:29

Capacity: 8000.00 psig
Last Calib.: 2012.05.01
Time On Btm:
Time Off Btm:

TEST COMMENT: IF:(15min) No Blow , Flushed Tool, Surge, Built to 1/2".
ISI:(75min) No Return
FF:(40min) Built to 3"
FSI:(150min) Return Surface Blow 8 min after bleed off, Died in 20 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
175.00	GOCMW g=10% o=15% m=35% w=40%	2.18
0.00	GIP=175ft	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary Jr & Associates

1515 Wynkoop Ste 700
Denver Co 80202

ATTN: Clayton Camozzi

10-16s-16w Rush,KS

Scheck #1-10

Job Ticket: 47268 **DST#: 1**

Test Start: 2012.05.01 @ 10:34:05

Tool Information

Drill Pipe:	Length:	3183.00 ft	Diameter:	3.80 inches	Volume:	44.65 bbl	Tool Weight:		3000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:		24000.00 lb
Drill Collar:	Length:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:		58000.00 lb
					Total Volume:	44.80 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		30.00 ft					String Weight:	Initial	48000.00 lb
Depth to Top Packer:		3220.00 ft						Final	49000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		40.00 ft							
Tool Length:		77.00 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			3184.00		
Recorder	0.00	8647	Fluid	3184.00		
Blank Spacing	5.00			3189.00		
Shut In Tool	5.00			3194.00		
Sampler	4.00			3198.00		
Hydraulic tool	5.00			3203.00		
Jars	5.00			3208.00		
Safety Joint	3.00			3211.00		
Packer	5.00			3216.00	37.00	Bottom Of Top Packer
Packer	4.00			3220.00		
Stubb	1.00			3221.00		
Recorder	0.00	8017	Inside	3221.00		
Recorder	0.00	8372	Outside	3221.00		
Perforations	36.00			3257.00		
Bullnose	3.00			3260.00	40.00	Bottom Packers & Anchor
Total Tool Length:	**77.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr & Associates

1515 Wynkoop Ste 700
Denver Co 80202

ATTN: Clayton Camozzi

10-16s-16w Rush,KS

Scheck #1-10

Job Ticket: 47268 **DST#: 1**

Test Start: 2012.05.01 @ 10:34:05

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:	83000 ppm
Viscosity:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.77 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	8200.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
175.00	GOCMW g=10% o=15% m=35% w=40%	2.182
0.00	GIP=175ft	0.000

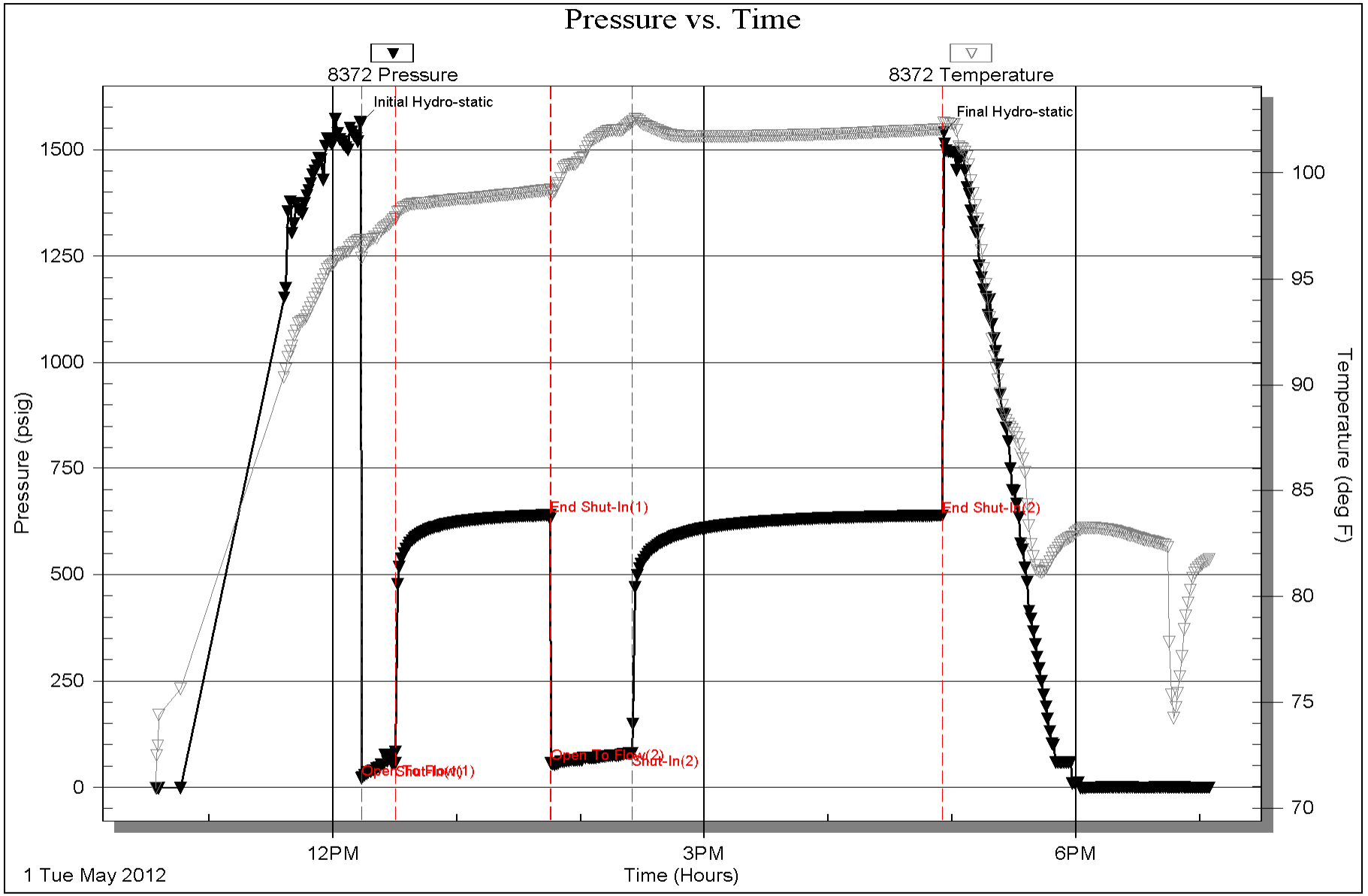
Total Length: 175.00 ft Total Volume: 2.182 bbl

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

Laboratory Name: Laboratory Location:

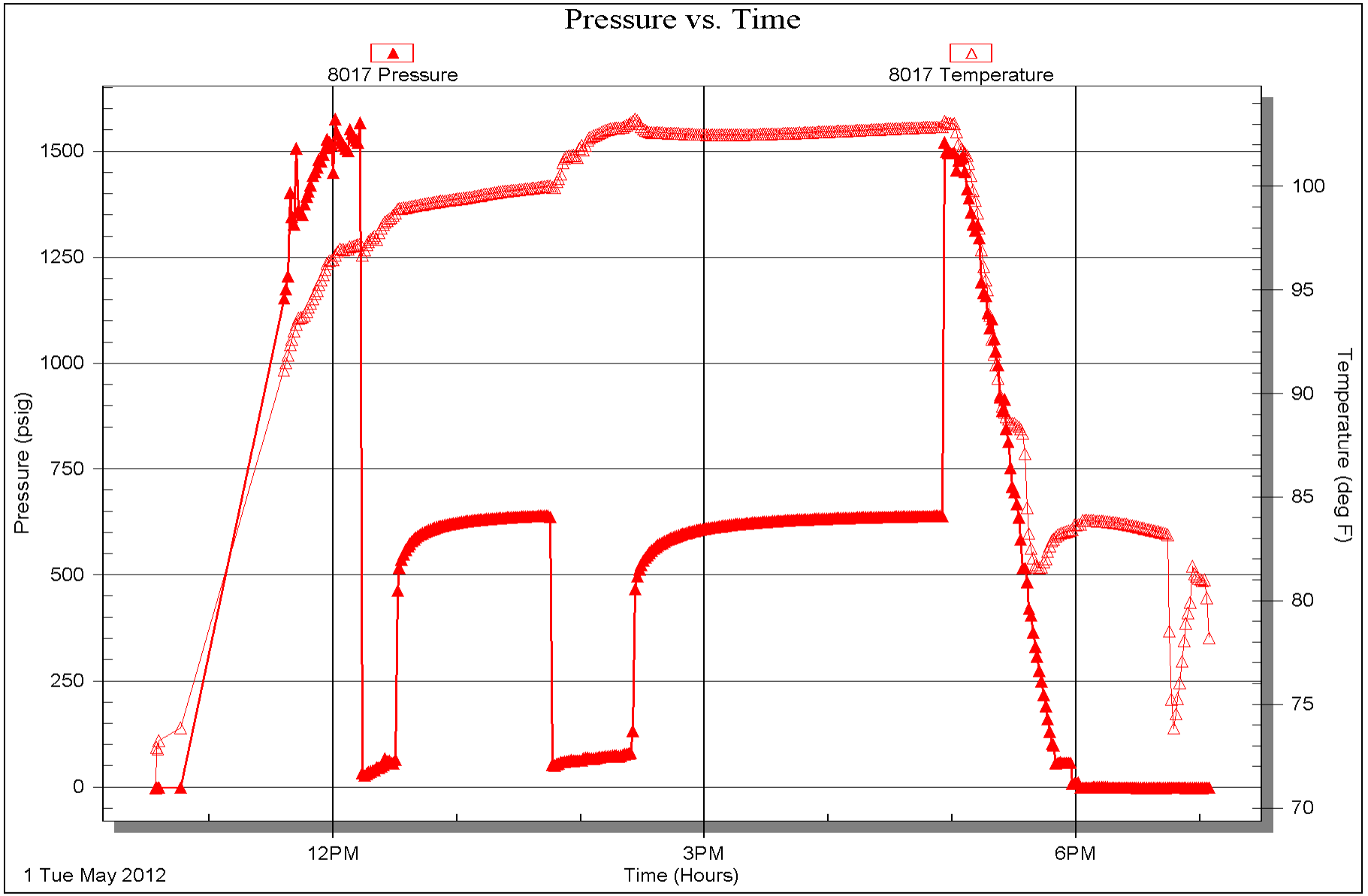
Recovery Comments: Sampler Data- g=500ml o=700ml m=800ml w=2000ml press=255lbs
Resistivity- .075 @ 84 = 83000

Serial #: 8372 **Outside** Sam Gary Jr & Associates Scheck #1-10 DST Test Number: 1



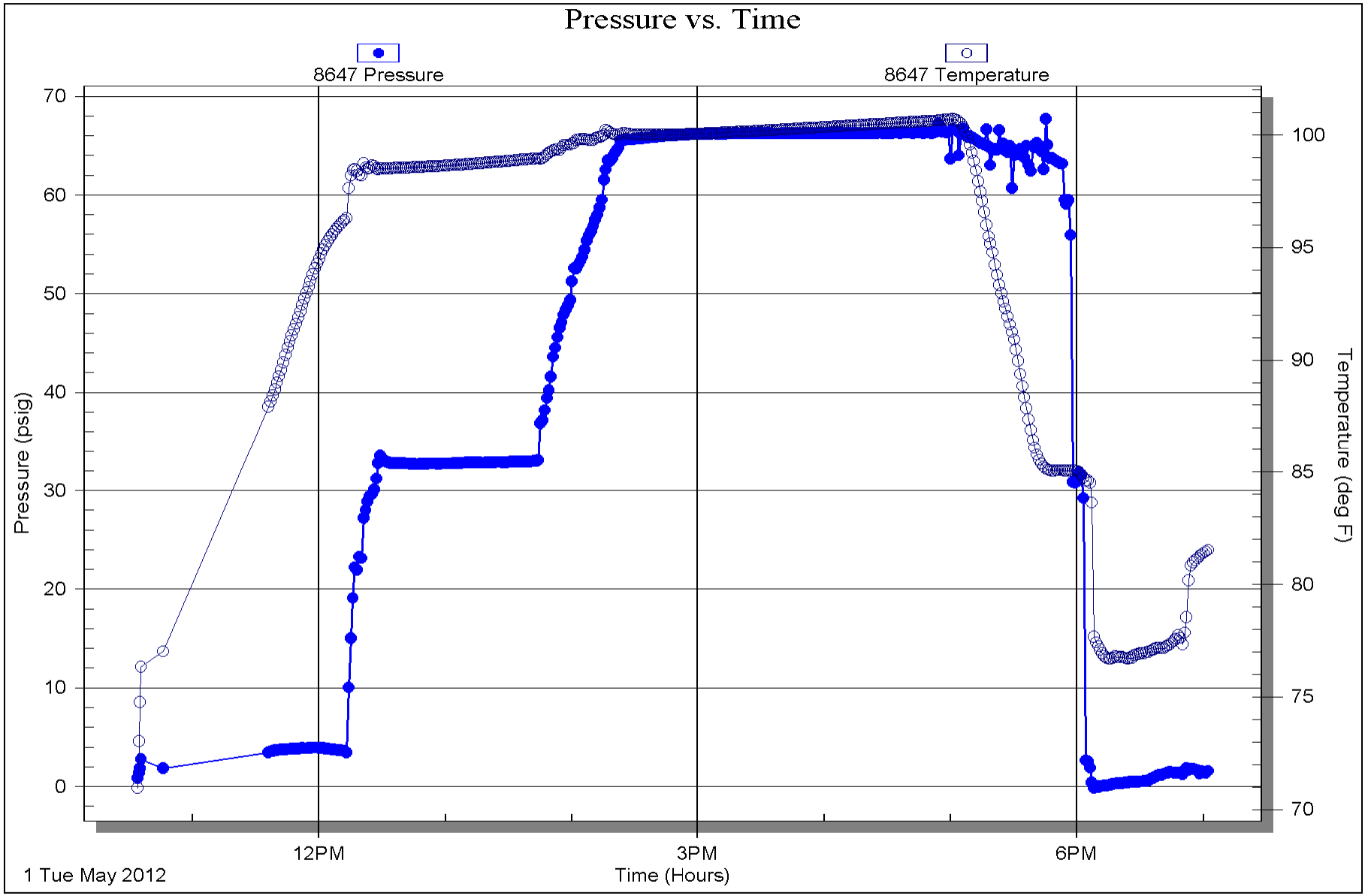
Trilobite Testing, Inc Ref. No: 47268 Printed: 2012.05.04 @ 14:19:36

Serial #: 8017 **Inside** Sam Gary Jr & Associates Scheck #1-10 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 47268 Printed: 2012.05.04 @ 14:19:36

Serial #: 8647 **Fluid** Sam Gary Jr & Associates Scheck #1-10 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 47268 Printed: 2012.05.04 @ 14:19:36

TRILOBITE TESTING INC.
P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAY 04 2012
BY:

Test Ticket

NO. 47268

Well Name & No. Schreck #1-10 Test No. 1 Date 5-1-12
Company Sam Gary Jr & Assoc. Elevation 1957 KB 1949 GL
Address 1515 Wynkoop Ste 700 Denver, Co. 80202
Co. Rep / Geo. Clayton Comozzi Rig Discovery #2
Location: Sec. 10 Twp. 16 S Rge. 16 W Co. Rush State Ks

Interval Tested 3220-3260 Zone Tested LKC "C-D"
Anchor Length 40' Drill Pipe Run 3183 Mud Wt. 8.9
Top Packer Depth 3215 Drill Collars Run 30 Vis 49
Bottom Packer Depth 3220 Wt. Pipe Run 0 WL 8.8
Total Depth 3260 Chlorides 8200 ppm System LCM 0

Blow Description IF: No blow, Flushed Tool, surge, built to ½"
ISI: No Return
FF: Built to 3"
FSI: Return ~~blow~~ surface blow, 8 min. after bleedoff, died in 20 min

Rec 175	Feet of GIP	%gas	%oil	%water	%mud
Rec 125	Feet of GOCM W	10 %gas	15 %oil	~~40~~ 50 %water	35 %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 125 BHT 102 Gravity API RW .075 @ 84 °F Chlorides 83000 ppm

(A) Initial Hydrostatic 1562	☑ Test 1150	T-On Location 09:54
(B) First Initial Flow 20	☑ Jars 250	T-Started 10:34
(C) First Final Flow 57	☑ Safety Joint 75	T-Open 12:15
(D) Initial Shut-In 639	☐ Circ Sub	T-Pulled 16:55
(E) Second Initial Flow 57	☑ Hourly Standby	T-Out 19:05
(F) Second Final Flow 80	☑ Mileage 68RT 105.40 X2 210.80	Comments loaded tools 5/3 6am
(G) Final Shut-In 638	☑ Sampler 250	
(H) Final Hydrostatic 1540	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 15	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 75	☑ Extra Recorder 200	Sub Total 800
Final Flow 40	☑ Day Standby 1 day 6 hrs	Total 2935.80
Final Shut-In 150	☐ Accessibility	MP/DST Disc't
	Sub Total 2135.80	

Approved By Our Representative Randy Comozzi

TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 47268 Date 5-1-12

Company Name Sam Gaey Jr & Assoc.

Lease Schreck #1-10 Test No. 1

County Rush Sec. 10 Twp. 16S Rng. 16W

SAMPLER RECOVERY

Gas 500 ML

Oil 700 ML

Mud 800 ML

Water 2000 ML

Other ML

Pressure 255 lbs ML

Total ML

PIT MUD ANALYSIS

Chlorides 8200 ppm.

Resistivity ohms @ F

Viscosity 49

Mud Weight 8.9

Filtrate 8.8

Other

SAMPLER ANALYSIS

Resistivity .075 ohms @ 84 F

Chlorides 83000 ppm.

Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms @ F

Chlorides ppm.

MIDDLE

Resistivity ohms @ F

Chlorides ppm.

BOTTOM

Resistivity ohms @ F

Chlorides ppm.