



DRILL STEM TEST REPORT

Prepared For: **Castelli Exporation Inc**

6908 NW 112 TH
Ollahoma City OK 73162

ATTN: Thomas Castelli

Charlie Brown #2-25

25-33s-16w Comanche,KS

Start Date: 2013.12.07 @ 00:27:41

End Date: 2013.12.07 @ 10:02:41

Job Ticket #: 039768 DST #: 1

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

Printed: 2013.12.11 @ 11:56:29



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Castelli Exporation Inc
6908 NW 112 TH
Ollahoma City OK 73162
ATTN: Thomas Castelli

25-33s-16w Comanche,KS

Charlie Brown #2-25

Job Ticket: 039768 **DST#: 1**

Test Start: 2013.12.07 @ 00:27:41

GENERAL INFORMATION:

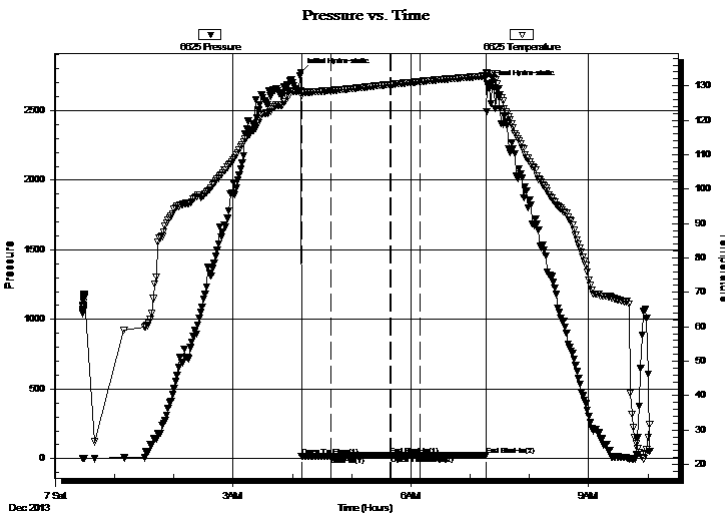
Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:09:11
 Time Test Ended: 10:02:41
 Interval: **5582.00 ft (KB) To 5621.00 ft (KB) (TVD)**
 Total Depth: 5621.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jeff Brown
 Unit No: 67
 Reference Elevations: ft (KB)
 1759.00 ft (CF)
 KB to GR/CF: ft

Serial #: 6625 Outside

Press@RunDepth: 22.99 psig @ 5584.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.07 End Date: 2013.12.07 Last Calib.: 2013.12.07
 Start Time: 00:27:42 End Time: 10:02:41 Time On Btm: 2013.12.07 @ 04:08:41
 Time Off Btm: 2013.12.07 @ 07:17:11

TEST COMMENT: IFP=Weak blow built to 1/4"
 IS=Dead no blow back
 FFP=Dead no blow
 FS=Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2773.97	128.61	Initial Hydro-static
1	16.86	127.17	Open To Flow (1)
31	18.56	128.61	Shut-In(1)
91	25.92	130.40	End Shut-In(1)
91	25.96	130.41	Open To Flow (2)
121	22.99	131.24	Shut-In(2)
188	24.89	132.87	End Shut-In(2)
189	2690.23	133.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	OCM 10%O 90%M	0.01

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Castelli Exporation Inc
6908 NW 112 TH
Ollahoma City OK 73162
ATTN: Thomas Castelli

25-33s-16w Comanche,KS
Charlie Brown #2-25
Job Ticket: 039768 **DST#: 1**
Test Start: 2013.12.07 @ 00:27:41

Tool Information

Drill Pipe:	Length: 5217.00 ft	Diameter: 3.80 inches	Volume: 73.18 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 349.00 ft	Diameter: 2.25 inches	Volume: 1.72 bbl	Weight to Pull Loose: 150000.0 lb
			<u>Total Volume: 74.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 100000.0 lb
Depth to Top Packer:	5582.00 ft			Final 101000.0 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	39.00 ft			
Tool Length:	67.00 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			5555.00	
Shut In Tool	5.00			5560.00	
Hydraulic tool	5.00			5565.00	
Jars	5.00			5570.00	
Safety Joint	3.00			5573.00	
Packer	4.00			5577.00	28.00 Bottom Of Top Packer
Packer	5.00			5582.00	
Stubb	1.00			5583.00	
Perforations	1.00			5584.00	
Recorder	0.00	6625	Outside	5584.00	
Recorder	0.00	8679	Inside	5584.00	
Perforations	33.00			5617.00	
Bullnose	4.00			5621.00	39.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
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FLUID SUMMARY

Castelli Exporation Inc
6908 NW 112 TH
Ollahoma City OK 73162
ATTN: Thomas Castelli

25-33s-16w Comanche,KS
Charlie Brown #2-25
Job Ticket: 039768 **DST#: 1**
Test Start: 2013.12.07 @ 00:27:41

Mud and Cushion Information

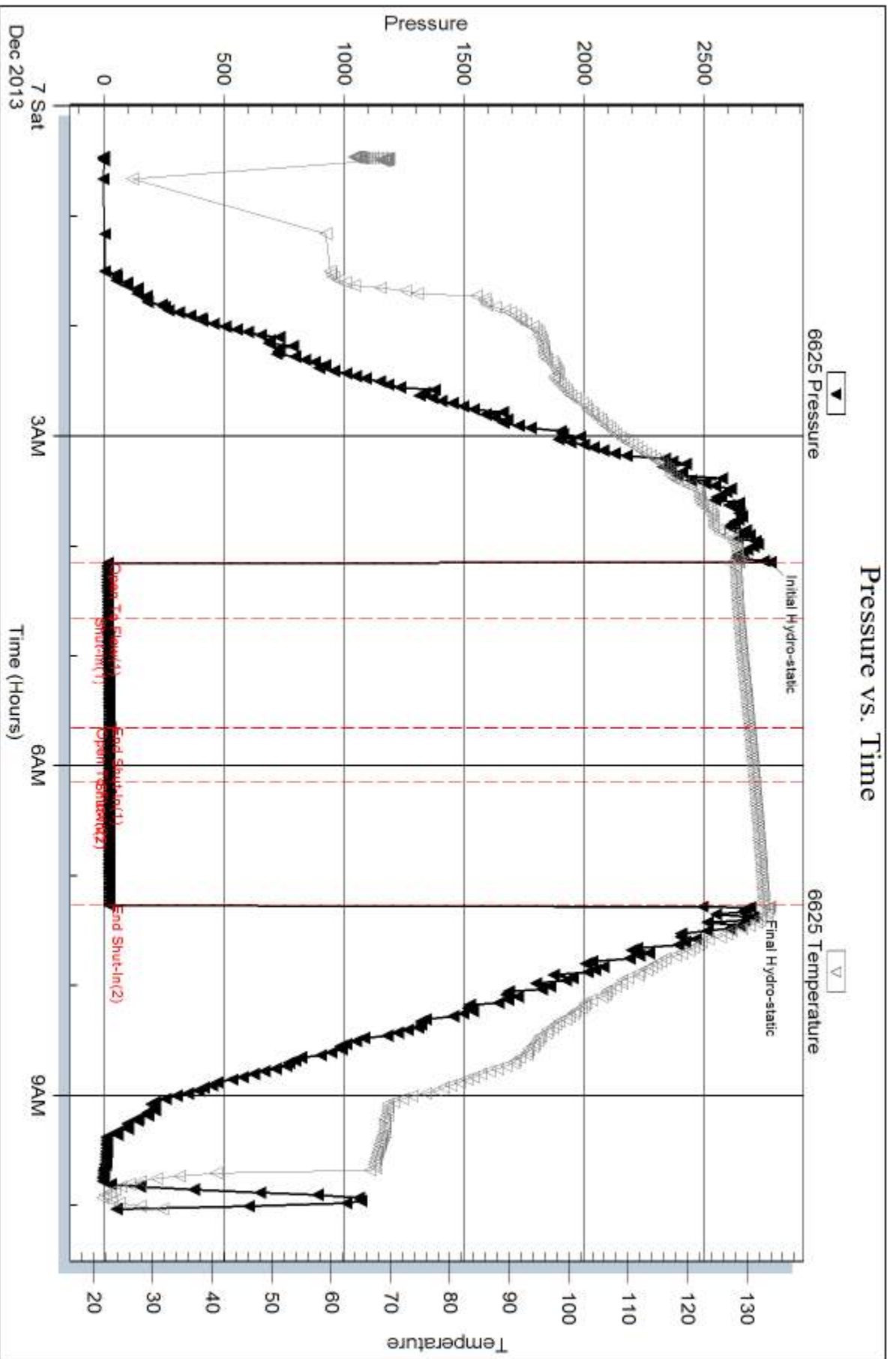
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	OCM 10%O 90%M	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



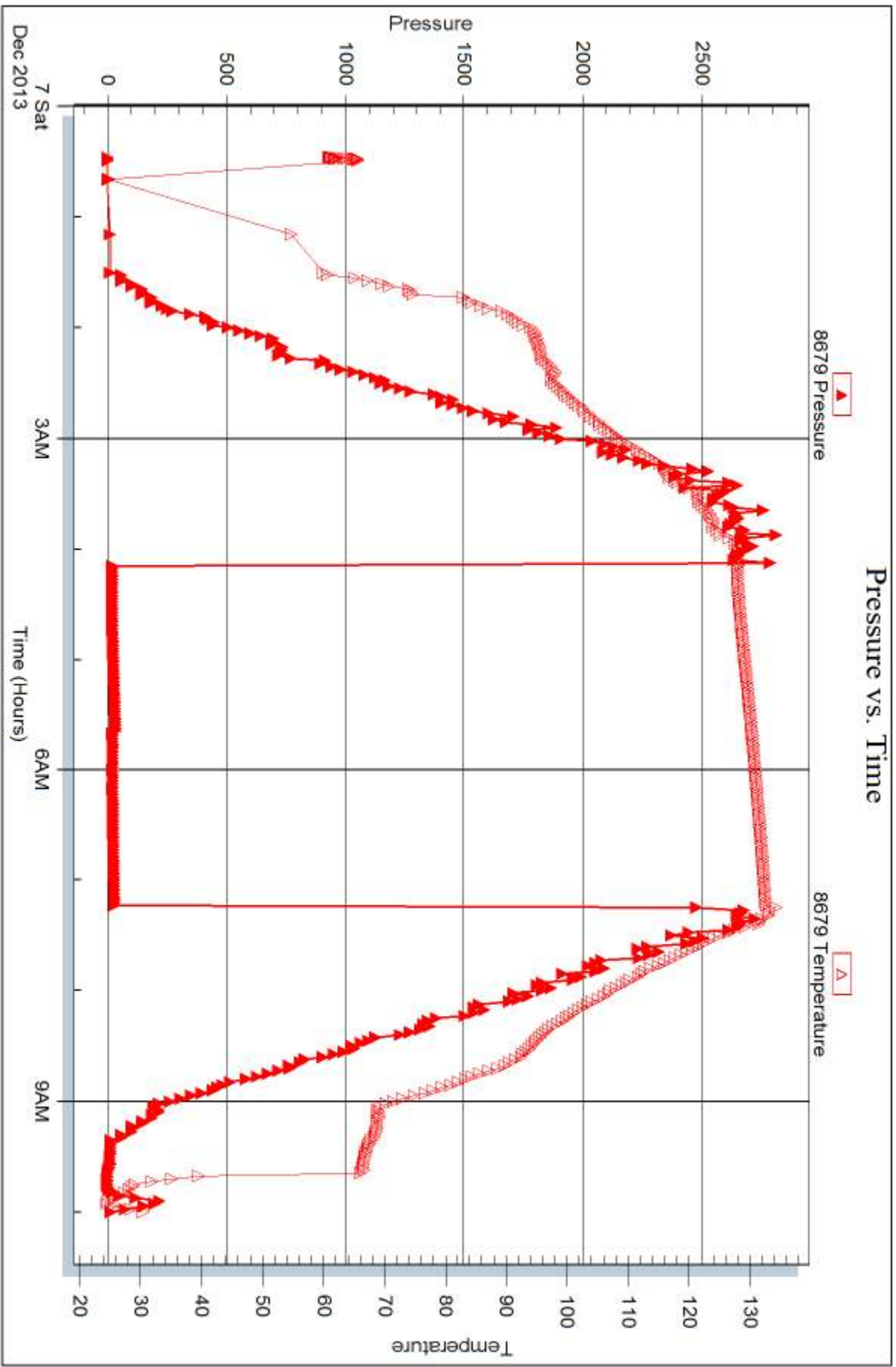
Serial #: 8679

Inside

Castelli Evaporation Inc

Charlie Brown #2-25

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 039768

Printed: 2013.12.11 @ 11:56:31



DRILL STEM TEST REPORT

Prepared For: **Castelli Exporation Inc**

6908 NW 112 TH
Ollahoma City OK 73162

ATTN: Thomas Castelli

Charlie Brown #2-25

25-33s-16w Comanche,KS

Start Date: 2013.12.08 @ 05:13:03

End Date: 2013.12.08 @ 15:58:33

Job Ticket #: 039769 DST #: 2

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

Printed: 2013.12.11 @ 11:54:21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Castelli Exporation Inc
6908 NW 112 TH
Ollahoma City OK 73162
ATTN: Thomas Castelli

25-33s-16w Comanche,KS

Charlie Brown #2-25

Job Ticket: 039769 **DST#: 2**

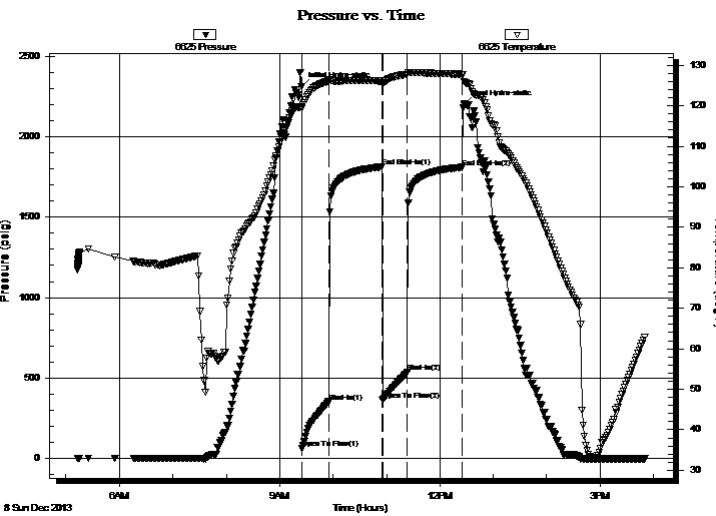
Test Start: 2013.12.08 @ 05:13:03

GENERAL INFORMATION:

Formation: **Heebner**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:25:03
 Time Test Ended: 15:58:33
 Interval: **4700.00 ft (KB) To 4755.00 ft (KB) (TVD)**
 Total Depth: 5710.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Straddle (Reset)
 Tester: Jeff Brown
 Unit No: 67
 Reference Elevations: ft (KB)
 1759.00 ft (CF)
 KB to GR/CF: ft

Serial #: 6625 Inside
 Press@RunDepth: 535.22 psig @ 4736.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.08 End Date: 2013.12.08 Last Calib.: 2013.12.08
 Start Time: 05:13:04 End Time: 15:50:33 Time On Btm: 2013.12.08 @ 09:24:33
 Time Off Btm: 2013.12.08 @ 12:27:03

TEST COMMENT: IFP=Strong blow BOB in 4 min
 IS=Weak blow back built to 1/2" dead back to 1/4"
 FFP=Strong blow BOB in 5 min
 FS=Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2312.36	119.58	Initial Hydro-static
1	61.65	119.37	Open To Flow (1)
31	353.23	126.13	Shut-In(1)
91	1812.24	126.11	End Shut-In(1)
91	362.51	125.48	Open To Flow (2)
119	535.22	127.76	Shut-In(2)
181	1809.14	127.73	End Shut-In(2)
183	2197.05	125.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
913.00	MW 25%M 75%W	9.63
119.00	WM 15%W 85%M	1.67

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Castelli Exporation Inc
6908 NW 112 TH
Ollahoma City OK 73162
ATTN: Thomas Castelli

25-33s-16w Comanche,KS
Charlie Brown #2-25
Job Ticket: 039769 **DST#: 2**
Test Start: 2013.12.08 @ 05:13:03

Tool Information

Drill Pipe:	Length: 4333.00 ft	Diameter: 3.80 inches	Volume: 60.78 bbl	Tool Weight: 2400.00 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: 349.00 ft	Diameter: 2.25 inches	Volume: 1.72 bbl	Weight to Pull Loose: 130000.0 lb
			<u>Total Volume: 62.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 108000.0 lb
Depth to Top Packer:	4700.00 ft			Final 115000.0 lb
Depth to Bottom Packer:	4755.00 ft			
Interval between Packers:	55.00 ft			
Tool Length:	1034.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4673.00	
Shut In Tool	5.00			4678.00	
Hydraulic tool	5.00			4683.00	
Jars	5.00			4688.00	
Safety Joint	3.00			4691.00	
Packer	4.00			4695.00	28.00 Bottom Of Top Packer
Packer	5.00			4700.00	
Stubb	1.00			4701.00	
Perforations	2.00			4703.00	
Change Over Sub	1.00			4704.00	
Drill Pipe	31.00			4735.00	
Change Over Sub	1.00			4736.00	
Recorder	0.00	6625	Inside	4736.00	
Recorder	0.00	8679	Outside	4736.00	
Perforations	15.00			4751.00	
Blank Off Sub	1.00			4752.00	
Stubb	3.00			4755.00	55.00 Tool Interval
Packer	1.00			4756.00	
Stubb	1.00			4757.00	
Recorder	0.00	8166	Below	4757.00	
Change Over Sub	1.00			4758.00	
Drill Pipe	943.00			5701.00	
Change Over Sub	1.00			5702.00	
Bullnose	4.00			5706.00	951.00 Bottom Packers & Anchor
Total Tool Length:	1034.00				



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FLUID SUMMARY

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6908 NW 112 TH
Ollahoma City OK 73162
ATTN: Thomas Castelli

25-33s-16w Comanche,KS
Charlie Brown #2-25
Job Ticket: 039769 **DST#: 2**
Test Start: 2013.12.08 @ 05:13:03

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

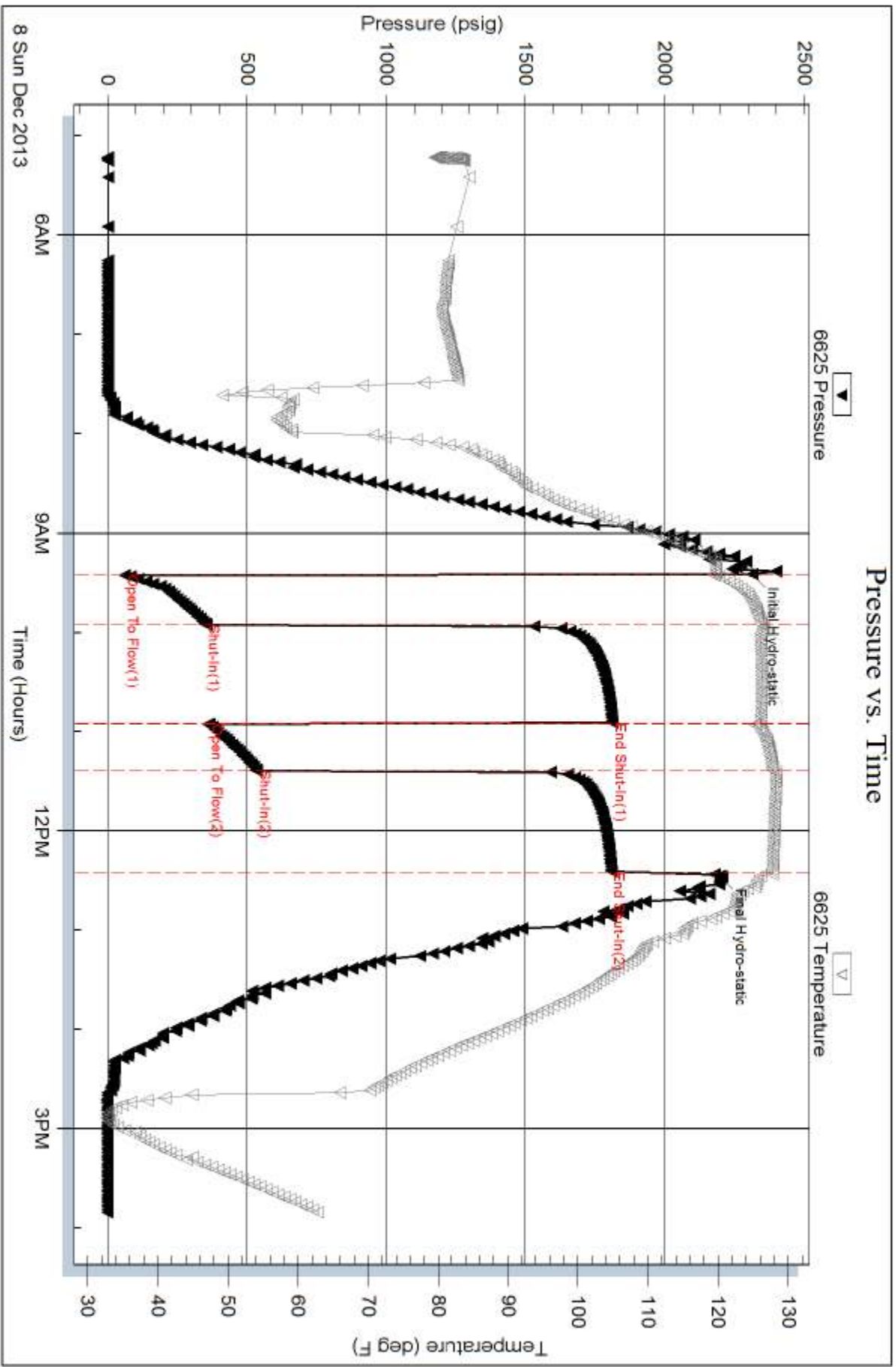
Length ft	Description	Volume bbl
913.00	MW 25%M 75%W	9.628
119.00	WM 15%W 85%M	1.669

Total Length: 1032.00 ft Total Volume: 11.297 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



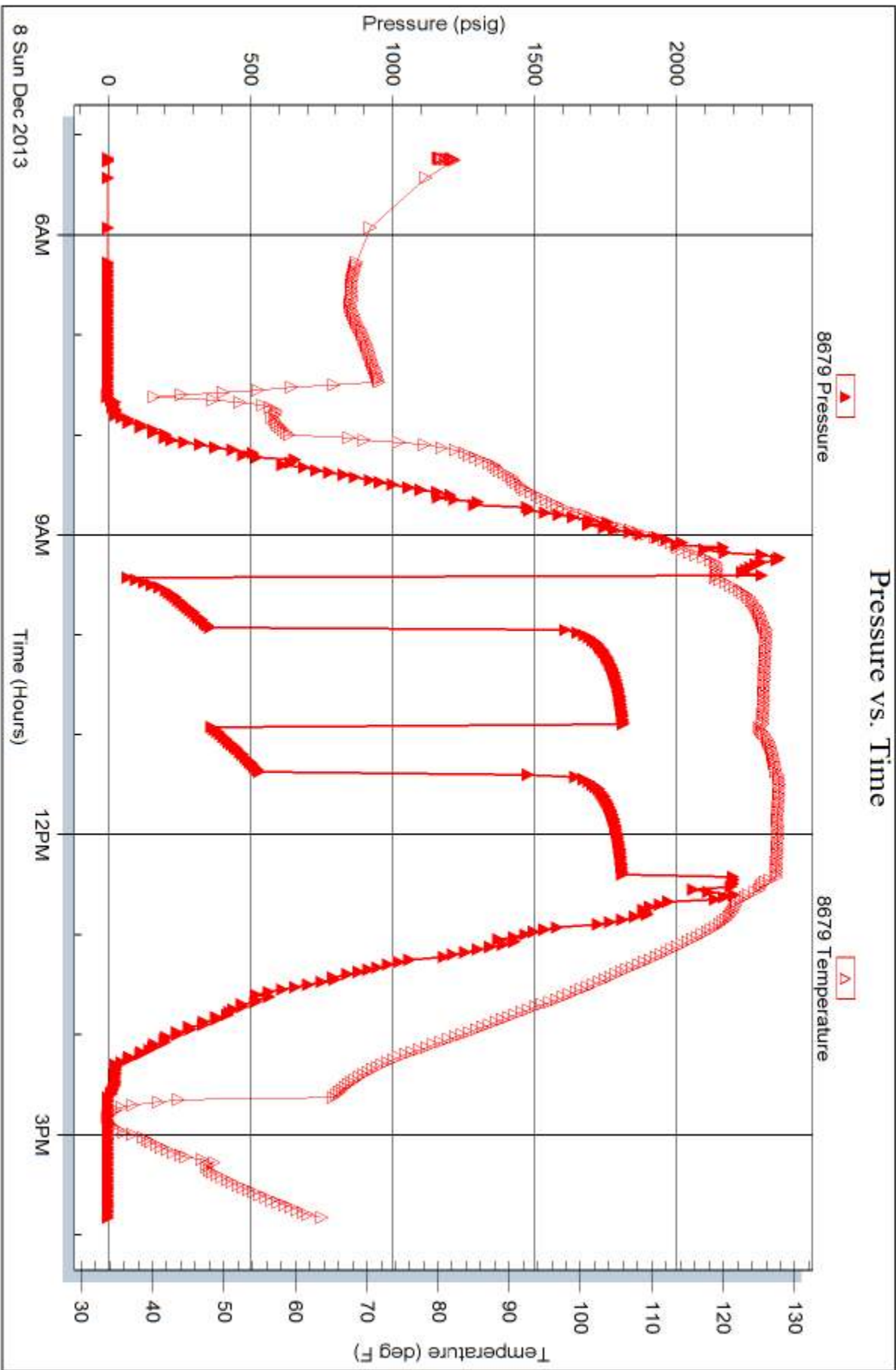
Serial #: 8679

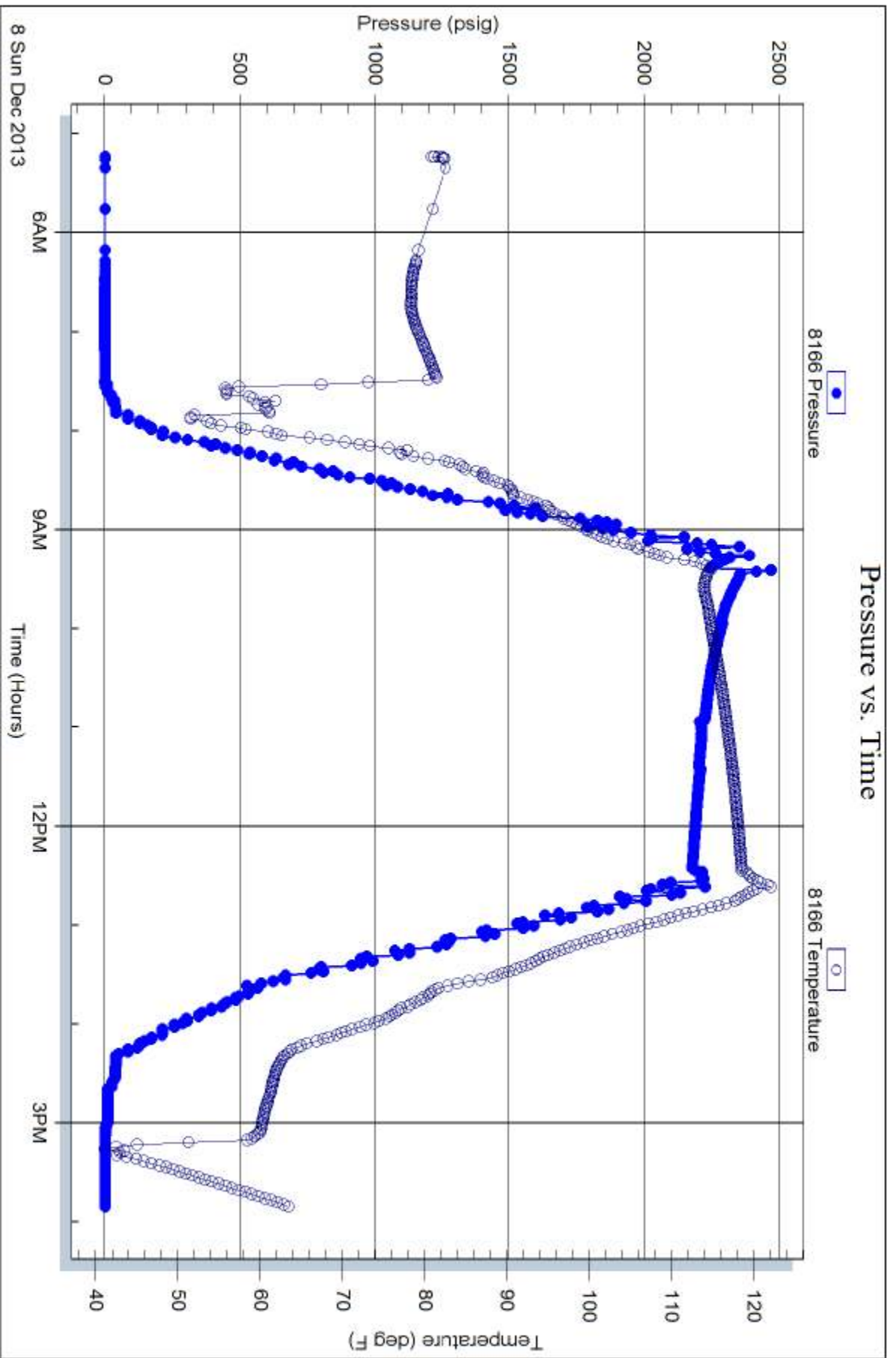
Outside

Castelli Evaporation Inc

Charlie Brown #2-25

DST Test Number: 2







TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 039768

4/10

Well Name & No. Charlie Brown #2-25 Test No. 1 Date 7-6-13
 Company Castelli Exploration INC Elevation _____ KB 1759 GL _____
 Address 6908 NW 112TH OKLAHOMA CITY OK 73162 + 2976
 Co. Rep / Geo. _____ Rig Duke #4
 Location: Sec. 25 Twp. 33 S Rge. 16 W Co. Cornache State KS

Interval Tested 5582-5621 Zone Tested VIOLA
 Anchor Length 39 Drill Pipe Run 5217 Mud Wt. 9.2
 Top Packer Depth 5577 Drill Collars Run 349 Vis 44
 Bottom Packer Depth 5582 Wt. Pipe Run 0 WL 10.4
 Total Depth 5621 Chlorides 5000 ppm System LCM 5
 Blow Description IA-Weak Blow Built to 1/4 IN
IS-Dead No Blow Back
FF-Dead No Blow
FS-Dead No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>OCM</u>	<u>10</u>		<u>90</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 3 BHT 133 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2774 Test 1350 T-On Location 23:40
 (B) First Initial Flow 17 Jars 250 T-Started 00:27
 (C) First Final Flow 19 Safety Joint 75 T-Open 4:09
 (D) Initial Shut-In 26 Circ Sub T-Pulled 7:09
 (E) Second Initial Flow 26 Hourly Standby T-Out 10:02
 (F) Second Final Flow 23 Mileage 148 x 2 Comments _____
 (G) Final Shut-In 25 Sampler 105rt 162.75 _____
 (H) Final Hydrostatic 2690 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1837.75
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1837.75

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60

Approved By _____ Our Representative Jeff Brown

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. 039769

Well Name & No. Charlie Brown #2-25 Test No. 2 Date 7-8-13
 Company Castelli Exploration INC Elevation 17 KB 1759 GL
 Address 6908 NW 112th Oklahoma City 73162 + 2976
 Co. Rep / Geo. _____ Rig Duke #6
 Location: Sec. 25 Twp. 33 S Rge. 16 W Co. Comanche State KS

Interval Tested 4700-4755 Zone Tested Hee B Mer
 Anchor Length 55' Anchor 955' Tail Drill Pipe Run 4333 Mud Wt. 9.2
 Top Packer Depth 4695 Drill Collars Run 349 Vis 50
 Bottom Packer Depth 4700 Wt. Pipe Run 0 WL 8.8
 Total Depth 5710 Chlorides 5000 ppm System LCM 8
 Blow Description FF-Strong Blow Bob IN 4 min
ISI-Weak Blow Back Built To 1/2 IN died Back To 1/4 IN
FF-Strong Blow Bob IN 5 min
FSI-Dead No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>913</u>	<u>WM</u>			<u>75%</u>	<u>25%</u>
<u>119</u>	<u>MW</u>			<u>15%</u>	<u>85%</u>
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 1032 BHT 128 Gravity _____ API RW 1163 @ 37.1 °F Chlorides 93,000 ppm

(A) Initial Hydrostatic <u>2312</u>	<input checked="" type="checkbox"/> Test <u>1350</u>	T-On Location <u>4:20</u>
(B) First Initial Flow <u>62</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>5:13</u>
(C) First Final Flow <u>353</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>9:25</u>
(D) Initial Shut-In <u>1812</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>12:25</u>
(E) Second Initial Flow <u>363</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>15:58</u>
(F) Second Final Flow <u>535</u>	<input checked="" type="checkbox"/> Mileage <u>162.75</u>	Comments _____
(G) Final Shut-In <u>1809</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2197</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>2437.75</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>2437.75</u>	

Approved By _____ Our Representative Jeff Brown

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.