



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmit, Inc.**

PO Box
Great Bend, KS 67530

ATTN: Vern Schrag

Gerstner "A" # 1-4

4-20s-29w Lane,KS

Start Date: 2011.12.14 @ 08:49:00

End Date: 2011.12.14 @ 13:07:39

Job Ticket #: 45495 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.12.19 @ 13:21:12



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmit, Inc.
PO Box
Great Bend, KS 67530
ATTN: Vern Schrag

4-20s-29w Lane, KS
Gerstner "A" # 1-4
Job Ticket: 45495 **DST#: 1**
Test Start: 2011.12.14 @ 08:49:00

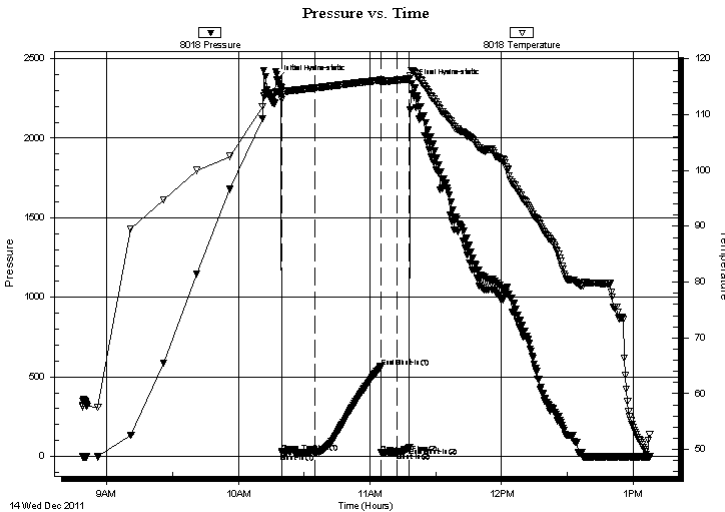
GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 10:19:50 Tester: Chuck Smith
Time Test Ended: 13:07:39 Unit No: 37
Interval: 4534.00 ft (KB) To 4615.00 ft (KB) (TVD) Reference Elevations: 2862.00 ft (KB)
Total Depth: 4615.00 ft (KB) (TVD) 2857.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8018 Inside
Press @ Run Depth: 25.77 psig @ 4538.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.12.14 End Date: 2011.12.14 Last Calib.: 2011.12.14
Start Time: 08:49:02 End Time: 13:07:40 Time On Btm: 2011.12.14 @ 10:17:40
Time Off Btm: 2011.12.14 @ 11:19:00

TEST COMMENT: 1/2" Blow receded to surface blow.
No return.
No blow.
No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2368.81	114.15	Initial Hydro-static
3	27.32	112.72	Open To Flow (1)
18	22.33	114.80	Shut-In(1)
48	564.75	116.19	End Shut-In(1)
48	23.52	115.77	Open To Flow (2)
55	25.77	116.19	Shut-In(2)
61	54.92	116.43	End Shut-In(2)
62	2341.90	117.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	M100m	0.05

Gas Rates

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



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TOOL DIAGRAM

Carmen Schmit, Inc.
PO Box
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ATTN: Vern Schrag

4-20s-29w Lane, KS
Gerstner "A" # 1-4
Job Ticket: 45495 **DST#: 1**
Test Start: 2011.12.14 @ 08:49:00

Tool Information

Drill Pipe:	Length: 4268.00 ft	Diameter: 3.80 inches	Volume: 59.87 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 242.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 61.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.50 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4534.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.00 ft			
Tool Length:	108.50 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			4507.50	
Shut In Tool	5.00			4512.50	
Hydraulic tool	5.00			4517.50	
Jars	5.00			4522.50	
Safety Joint	2.50			4525.00	
Packer	5.00			4530.00	27.50 Bottom Of Top Packer
Packer	4.00			4534.00	
Stubb	1.00			4535.00	
Perforations	3.00			4538.00	
Recorder	0.00	8018	Inside	4538.00	
Recorder	0.00	6751	Outside	4538.00	
Perforations	9.00			4547.00	
Change Over Sub	1.00			4548.00	
Drill Pipe	63.00			4611.00	
Change Over Sub	1.00			4612.00	
Bullnose	3.00			4615.00	81.00 Bottom Packers & Anchor
Total Tool Length:	108.50				



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FLUID SUMMARY

Carmen Schmit, Inc.
PO Box
Great Bend, KS 67530
ATTN: Vern Schrag

4-20s-29w Lane, KS
Gerstner "A" # 1-4
Job Ticket: 45495 **DST#: 1**
Test Start: 2011.12.14 @ 08:49:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.34 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2200.00 ppm			
Filter Cake: 1.00 inches			

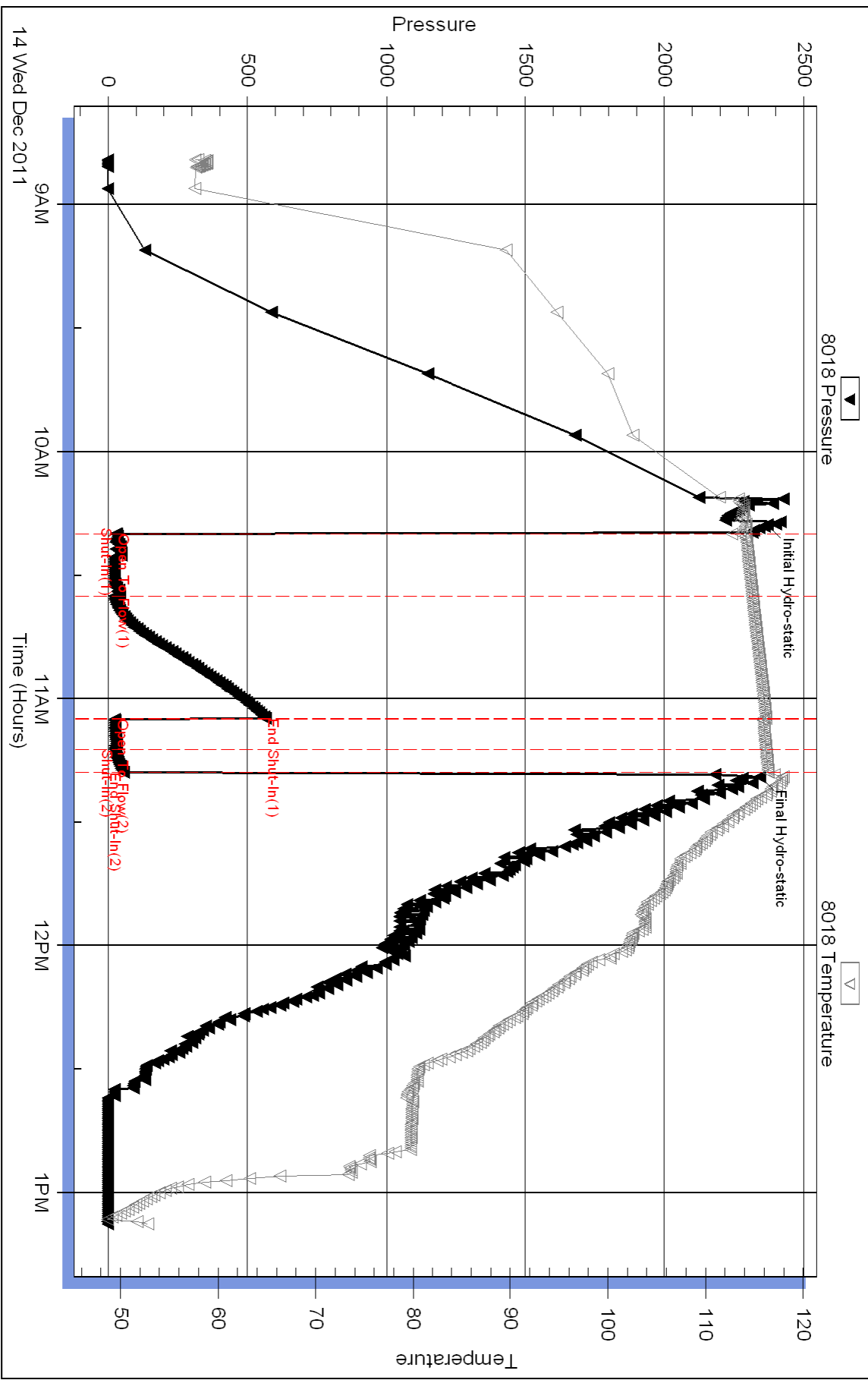
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	M100m	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:

Pressure vs. Time

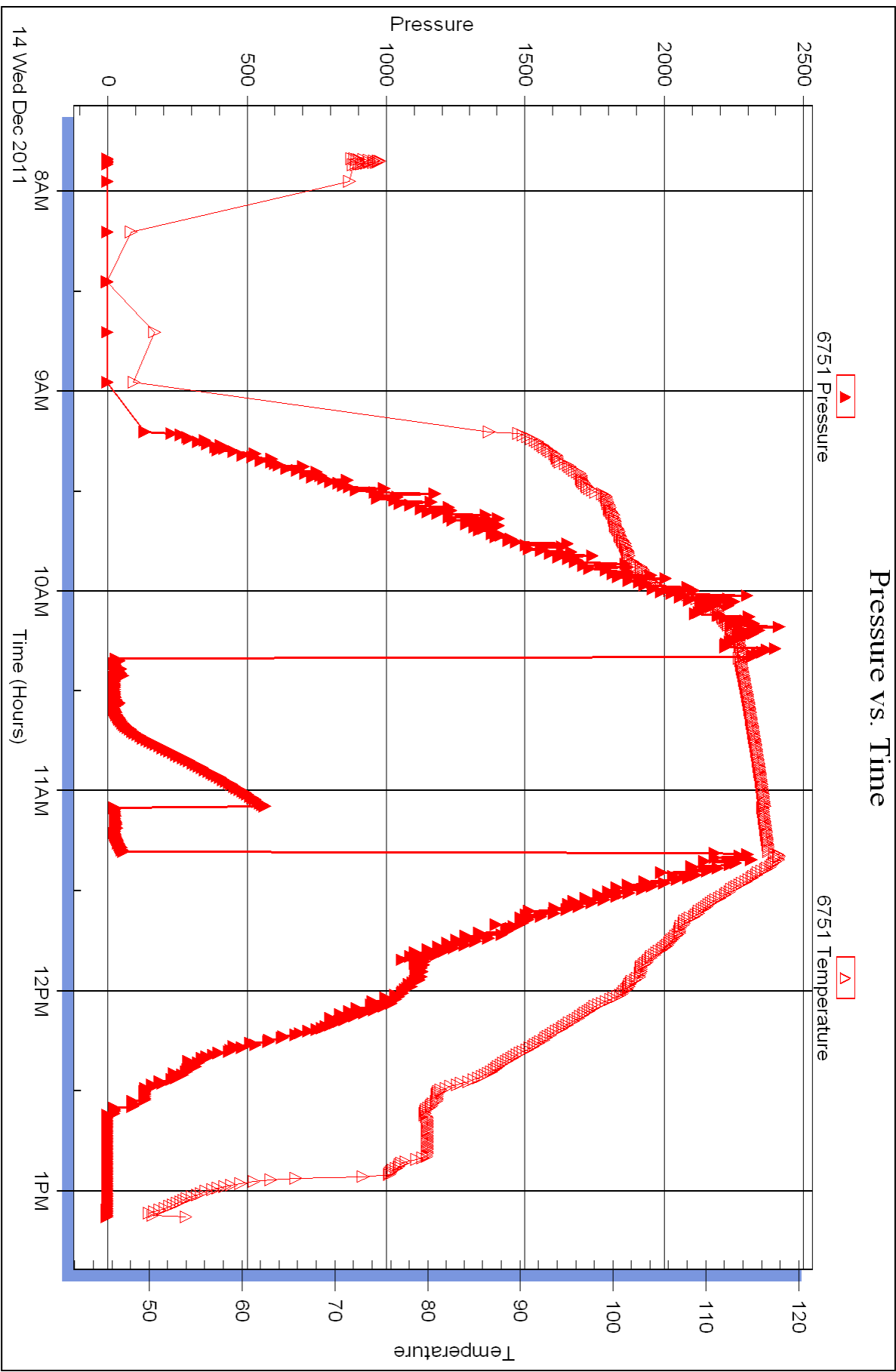


Serial #: 6751

Outside Carmen Schmitt, Inc.

Gerstner "A" # 1-4

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmit, Inc.**

PO Box
Great Bend, KS 67530

ATTN: Vern Schrag

Gerstner "A" # 1-4

4-20s-29w Lane,KS

Start Date: 2011.12.15 @ 12:35:00

End Date: 2011.12.15 @ 19:43:58

Job Ticket #: 44981 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.12.19 @ 13:18:54

Carmen Schmit, Inc.
4-20s-29w Lane,KS
Gerstner "A" # 1-4
DST # 2
Marmaton
2011.12.15



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmit, Inc.
PO Box
Great Bend, KS 67530
ATTN: Vern Schrag

4-20s-29w Lane,KS
Gerstner "A" # 1-4
Job Ticket: 44981 **DST#: 2**
Test Start: 2011.12.15 @ 12:35:00

Tool Information

Drill Pipe:	Length: 4140.00 ft	Diameter: 3.80 inches	Volume: 58.07 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 302.00 ft	Diameter: 2.25 inches	Volume: 1.49 bbl	Weight to Pull Loose: 10000.00 lb
			<u>Total Volume: 59.56 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	31.50 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4438.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	4504.00 ft			
Interval between Packers:	66.00 ft			
Tool Length:	318.50 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			4411.50		
Shut In Tool	5.00			4416.50		
Hydraulic tool	5.00			4421.50		
Jars	5.00			4426.50		
Safety Joint	2.50			4429.00		
Packer	5.00			4434.00	27.50	Bottom Of Top Packer
Packer	4.00			4438.00		
Stubb	1.00			4439.00		
Recorder	0.00	8018	Inside	4439.00		
Recorder	0.00	6751	Outside	4439.00		
Perforations	24.00			4463.00		
Change Over Sub	1.00			4464.00		
Drill Pipe	31.00			4495.00		
Change Over Sub	1.00			4496.00		
Perforations	4.00			4500.00		
Blank Off Sub	1.00			4501.00		
top of s pack	3.00			4504.00	66.00	Tool Interval
Packer	0.00			4504.00		
Stubb	1.00			4505.00		
Change Over Sub	1.00			4506.00		
Recorder	0.00	8357	Below	4506.00		
Drill Pipe	219.00			4725.00		
Change Over Sub	1.00			4726.00		
Bullnose	3.00			4729.00	225.00	Bottom Packers & Anchor
Total Tool Length:	318.50					



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PO Box
Great Bend, KS 67530
ATTN: Vern Schrag

4-20s-29w Lane, KS
Gerstner "A" # 1-4
Job Ticket: 44981 **DST#: 2**
Test Start: 2011.12.15 @ 12:35:00

Mud and Cushion Information

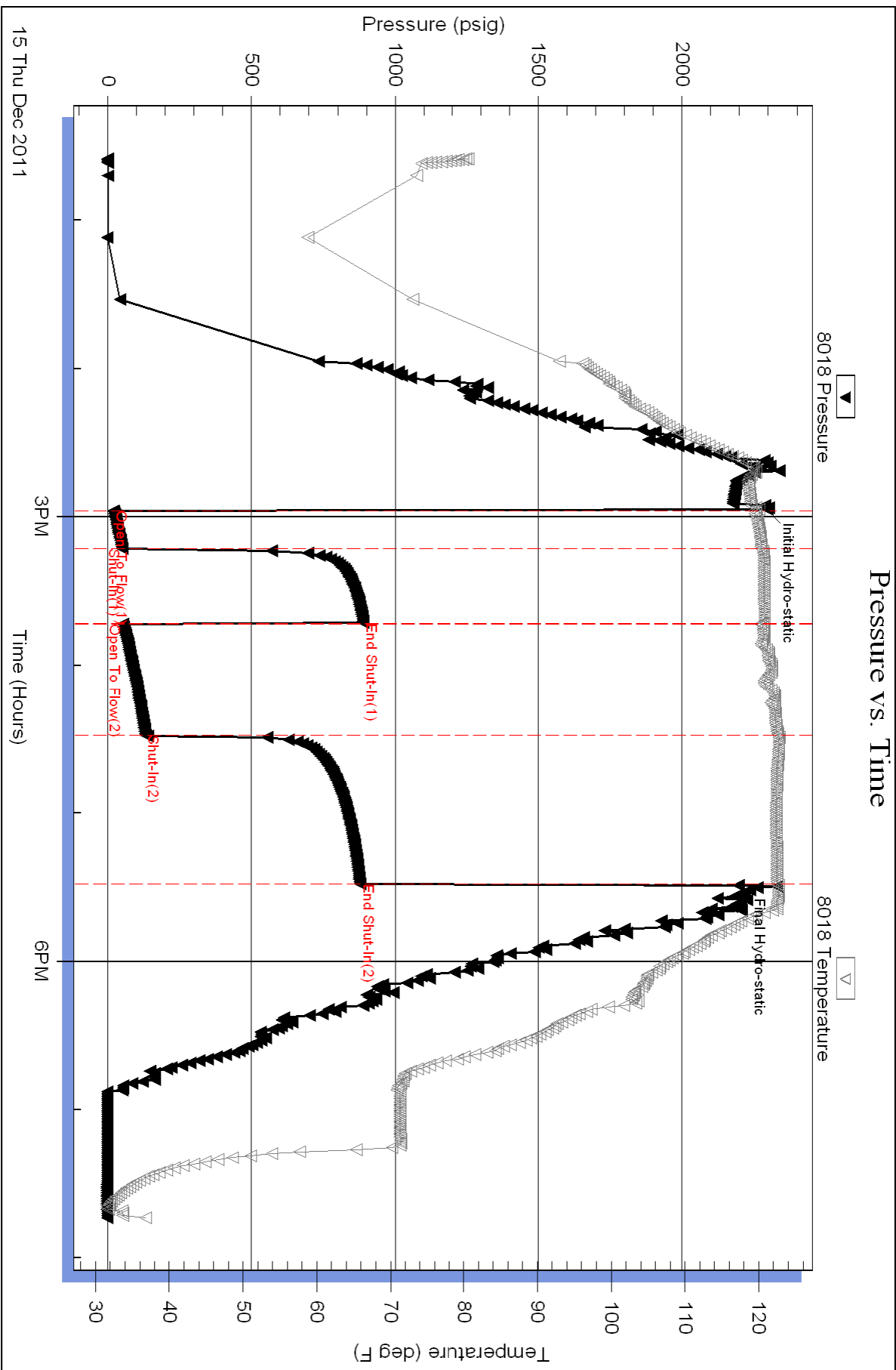
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.96 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2900.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	WCM 4%w 96%m	0.934

Total Length: 190.00 ft Total Volume: 0.934 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



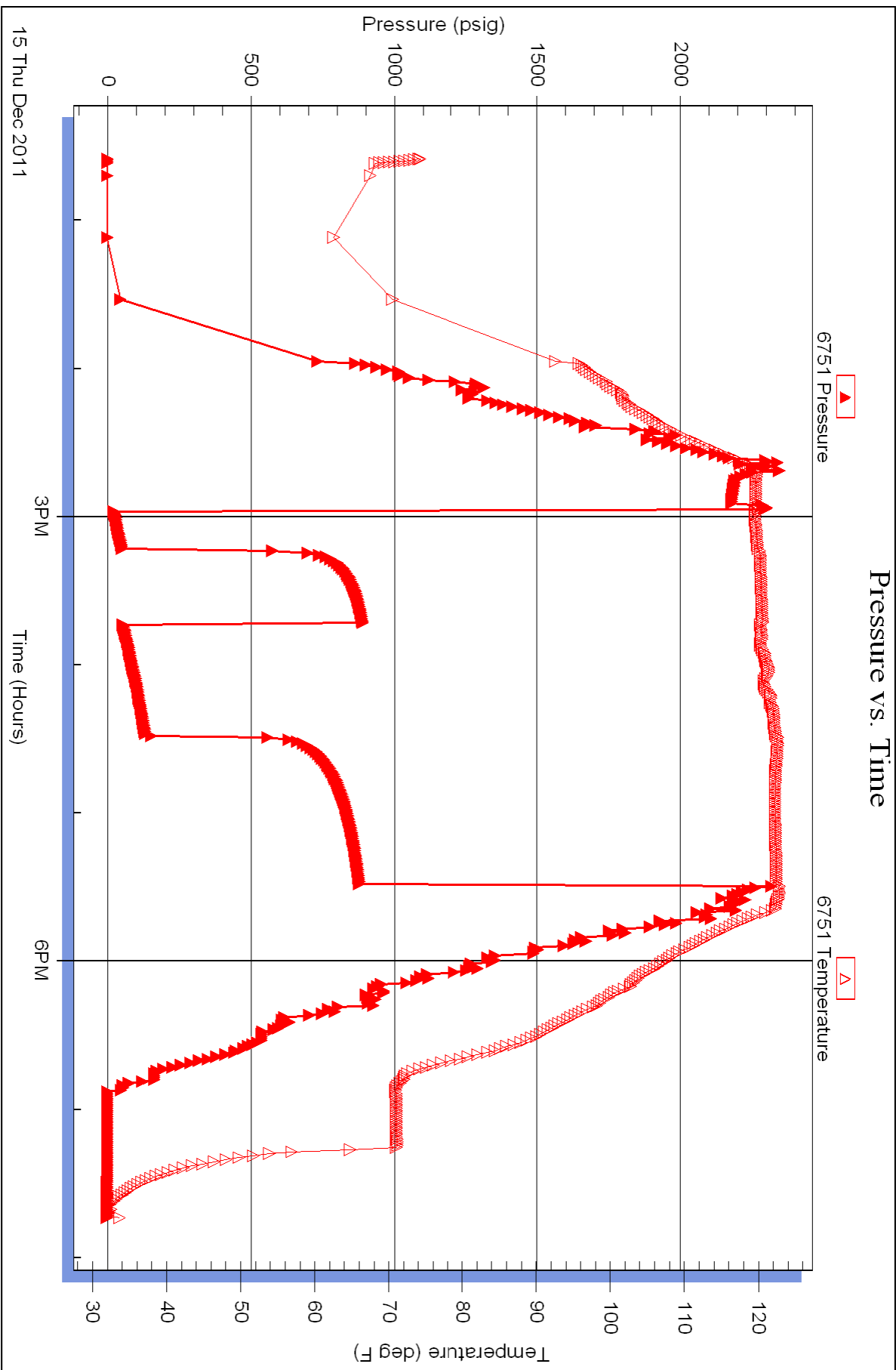
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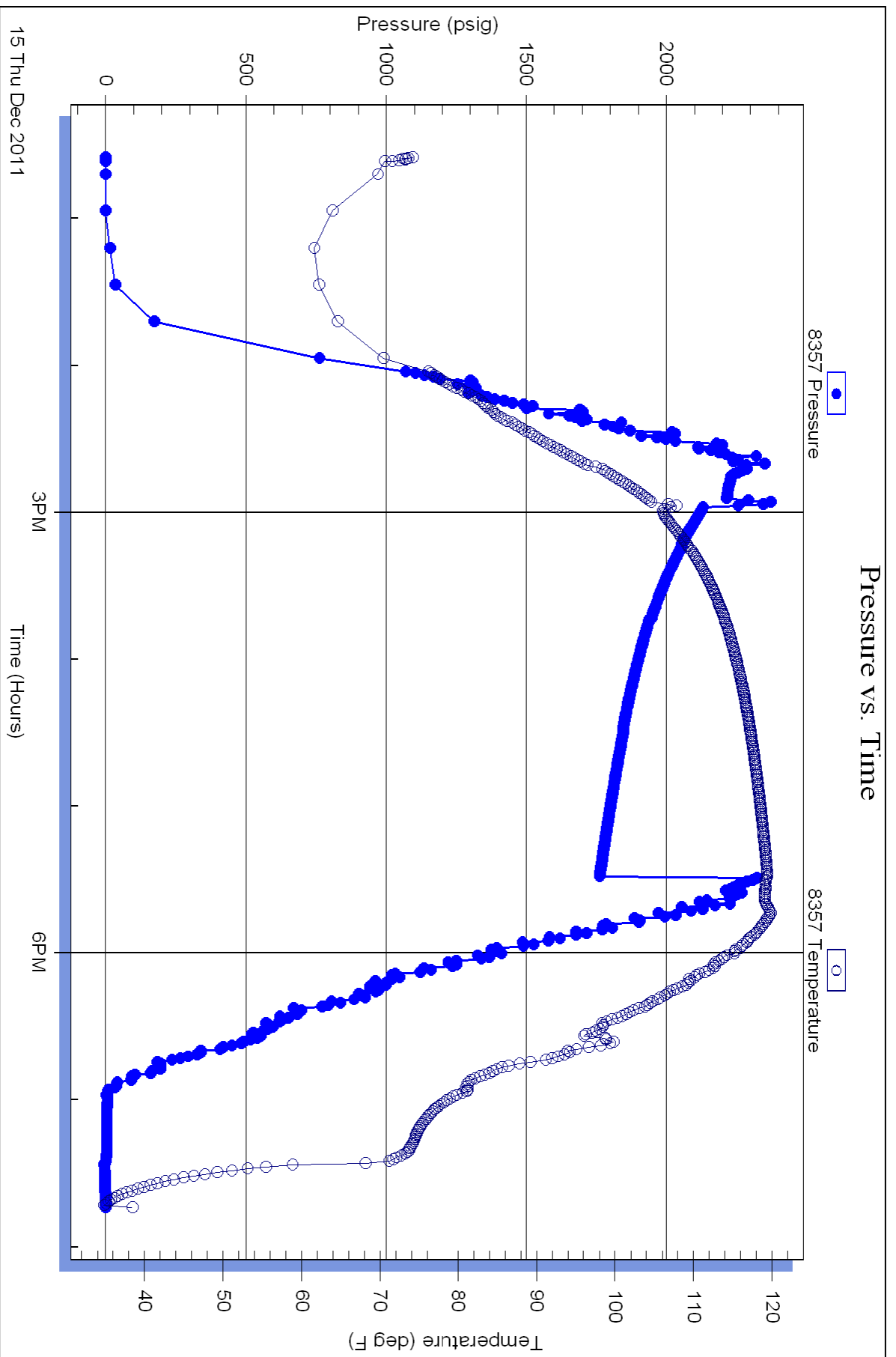
Outside

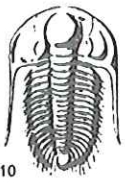
Carmen Schmitt, Inc.

Gerstner "A" # 1-4

DST Test Number: 2







TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
DEC 16 2011

Test Ticket

NO. 45495

4/10

BY: _____

Well Name & No. Geerstner A #1 Test No. 1 Date 12-14-11
 Company Carmen Schmit, Inc. Elevation 2862 KB 2857 GL
 Address POB 47 Great Bend, KS 67530
 Co. Rep / Geo. Vern Schrag Rig Mallard JV
 Location: Sec. 4 Twp. 20s Rge. 29w Co. Lane State Ks

Interval Tested 4534 - 4615 Zone Tested Pawnee
 Anchor Length 81 Drill Pipe Run 4268 Mud Wt. 9.5
 Top Packer Depth 4530 Drill Collars Run 242 Vis 50
 Bottom Packer Depth 4534 Wt. Pipe Run 0 WL 10.4
 Total Depth 4615 Chlorides 2200 ppm System LCM 1
 Blow Description 1/2" Blow receded to surface blow,
No return.
No blow.
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>10</u>	Feet of <u>M</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 116 Gravity - API RW @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2369 Test 1225' T-On Location 7:30
 (B) First Initial Flow 27 Jars 250' T-Started 7:50
 (C) First Final Flow 22 Safety Joint 75' T-Open 10:20
 (D) Initial Shut-In 565 Circ Sub N/C T-Pulled 11:18
 (E) Second Initial Flow 24 Hourly Standby _____ T-Out 13:08
 (F) Second Final Flow 26 Mileage 72 RT 100.80 Comments _____
 (G) Final Shut-In 55 Sampler _____
 (H) Final Hydrostatic 2342 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 15 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1650.80
 Final Flow 7 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 6 Sub Total 1650.80

Approved By Vern Schrag Our Representative Chuck Smith

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

RECEIVED
DEC 19 2011

Test Ticket

NO. 44981

Well Name & No. Gerstner A # 1-4 Test No. DST # 2 Date 12-15-11
 Company Carmen Schmit, Inc Elevation 2862 KB 2857 GL
 Address P.O. Box 47 Great Bend KS 67530
 Co. Rep / Geo. Vern Schrag Rig Mallard JV
 Location: Sec. 4 Twp. 20s Rge. 29w Co. Lane State KS

Interval Tested 4438-4504 Zone Tested Marmaton
 Anchor Length 66 Drill Pipe Run 4140 Mud Wt. 9.4
 Top Packer Depth 4438 Drill Collars Run 302 Vis 52
 Bottom Packer Depth 4504 Wt. Pipe Run 0 WL 8.0
 Total Depth 4731 Chlorides 2900 ppm System LCM 1/216
 Blow Description IF - Weak Surface Blow Built to 2"
ISI - No Blow
FF - Weak Surface Blow Built to 1"
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>190</u>	<u>WCM</u>			<u>4</u>	<u>96</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 190 BHT 117 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2296 Test 1225' T-On Location 11:08 AM
 (B) First Initial Flow 19 Jars 250' T-Started 12:35
 (C) First Final Flow 50 Safety Joint 75' T-Open 14:57
 (D) Initial Shut-In 889 Circ Sub 50' T-Pulled 17:32
 (E) Second Initial Flow 52 Hourly Standby _____ T-Out 19:43
 (F) Second Final Flow 131 Mileage 72 R/T 100.80 Comments _____
 (G) Final Shut-In 877 Sampler _____
 (H) Final Hydrostatic 2197 Straddle 600' Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder 200' Sub Total 0
 Day Standby _____ Total 2500.80
 Accessibility _____ MP/DST Disc't _____
 Sub Total 2500.80

Initial Open 15
 Initial Shut-In 30
 Final Flow 45
 Final Shut-In 60

Approved By Vernon C Schrag Our Representative Kim Mal

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.