

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Charles N Griffin**

PO Box 347
Pratt, KS 67124

ATTN: Bruce Reed

31-33S-8W Harper KS

#1 Leysa

Start Date: 2010.12.31 @ 15:29:52

End Date: 2010.12.31 @ 20:54:07

Job Ticket #: 039267 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Printed: 2011.01.07 @ 14:33:24 Page 1

Charles N Griffin

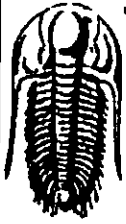
#1 Leysa

31-33S-8W Harper KS

DST # 1

Mississjppi

2010.12.31



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charles N Griffin

#1 Leysa

PO Box 347
Pratt, KS 67124

31-33S-8W Harper KS

Job Ticket: 039267

DST#: 1

ATTN: Bruce Reed

Test Start: 2010.12.31 @ 15:29:52

Tool Information

Drill Pipe:	Length: 4451.00 ft	Diameter: 3.80 inches	Volume: 62.44 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 40000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 62.44 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4445.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	90.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4430.00	
Hydraulic tool	5.00			4435.00	
Packer	5.00			4440.00	20.00 Bottom Of Top Packer
Packer	5.00			4445.00	
Stubb	1.00			4446.00	
Recorder	0.00	6798	Inside	4446.00	
Recorder	0.00	8367	Outside	4446.00	
Perforations	3.00			4449.00	
Drill Pipe	32.00			4481.00	
Perforations	31.00			4512.00	
Buttnose	3.00			4515.00	70.00 Bottom Packers & Anchor

Total Tool Length: 90.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charles N Griffin

#1 Leysa

PO Box 347
Pratt, KS 67124

31-33S-8W Harper KS

Job Ticket: 039267 DST#: 1

ATTN: Bruce Reed

Test Start: 2010.12.31 @ 15:29:52

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: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 12.58 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

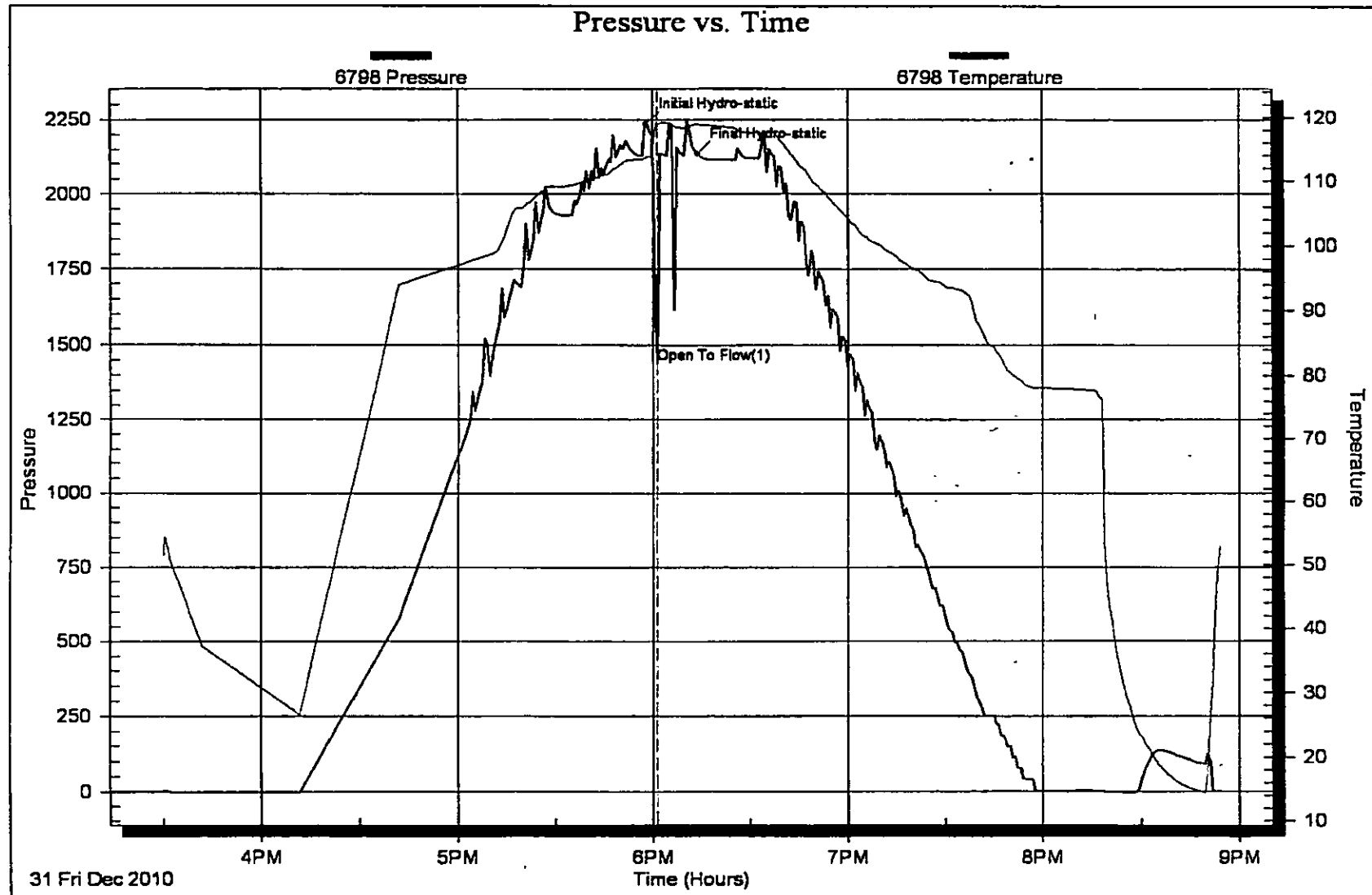
Length ft	Description	Volume bbl
420.00	DRLG Mud	5.891

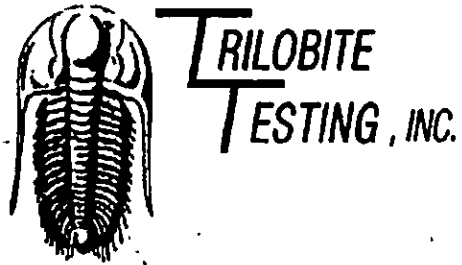
Total Length: 420.00 ft Total Volume: bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Charles N Griffin**

PO Box 347
Pratt, KS 67124

ATTN: Bruce Reed

31-33S-8W Harper KS

#1 Leysa

Start Date: 2011.01.01 @ 04:05:16

End Date: 2011.01.01 @ 11:15:01

Job Ticket #: 039268 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Charles N Griffin

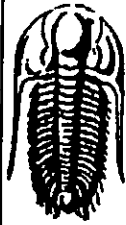
#1 Leysa

31-33S-8W Harper KS

DST # 2

Mississippi

2011.01.01



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Charles N Griffin

#1 Leysa

PO Box 347
Pratt, KS 67124

31-33S-8W Harper KS

Job Ticket: 039268 DST#: 2

ATTN: Bruce Reed

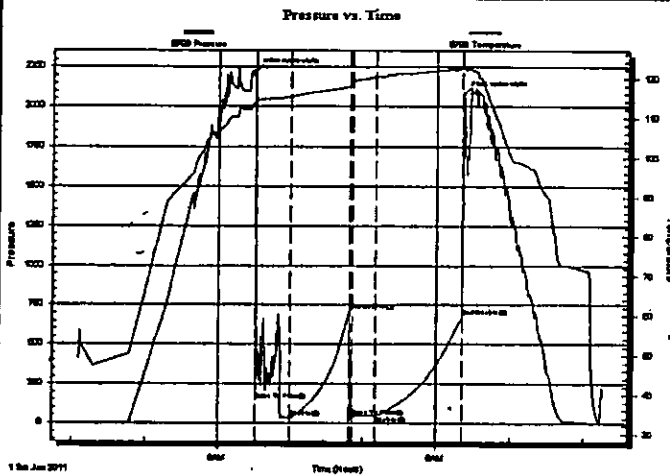
Test Start: 2011.01.01 @ 04:05:16

GENERAL INFORMATION:

Formation: Mississipp
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:30:46
Time Test Ended: 11:15:01
Interval: 4502.00 ft (KB) To 4515.00 ft (KB) (TVD)
Total Depth: 4515.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Leal Cason
Unit No: 45
Reference Elevations: 1316.00 ft (KB)
1305.00 ft (CF)
KB to GRVCF: 11.00 ft

Serial #: 6798 Inside
Press@RunDepth: 47.46 psig @ 4503.00 ft (KB)
Start Date: 2011.01.01 End Date: 2011.01.01
Start Time: 04:05:17 End Time: 11:15:01
Capacity: 8000.00 psig
Last Calib.: 2011.01.01
Time On Btm: 2011.01.01 @ 06:30:01
Time Off Btm: 2011.01.01 @ 09:21:46

TEST COMMENT: IF: Weak Blow, Built to 4 1/2 inches
IS: Bled Off, No Blow back
FF: Weak Blow, Built To 2 1/2 inches
FS: Bled Off, No Blow back



PRESSURE SUMMARY

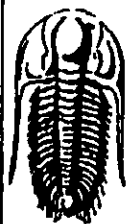
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2223.27	113.92	Initial Hydro-static
1	143.77	114.13	Open To Flow (1)
30	36.15	115.19	Shut-in(1)
79	710.13	117.86	End Shut-in(1)
81	42.53	119.58	Open To Flow (2)
100	47.46	120.34	Shut-in(2)
172	674.44	122.28	End Shut-in(2)
172	2082.71	122.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	VSOSM <1% O >99%M	0.84
20.00	SGCM 2%g 98%M	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charles N Griffin

#1 Leysa

PO Box 347
Pratt, KS 67124

31-33S-8W Harper KS

Job Ticket: 039268

DST#: 2

ATTN: Bruce Reed

Test Start: 2011.01.01 @ 04:05:16

Tool Information

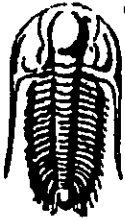
Drill Pipe:	Length: 4489.00 ft	Diameter: 3.80 inches	Volume: 62.97 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 62.97 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4502.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4487.00	
Hydraulic tool	5.00			4492.00	
Packer	5.00			4497.00	20.00 Bottom Of Top Packer
Packer	5.00			4502.00	
Stubb	1.00			4503.00	
Recorder	0.00	6798	Inside	4503.00	
Recorder	0.00	8367	Outside	4503.00	
Perforations	9.00			4512.00	
Bullnose	3.00			4515.00	13.00 Bottom Packers & Anchor
Total Tool Length:	33.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Charles N Griffin

#1 Leysa

PO Box 347
Pratt, KS 67124

31-33S-8W Harper KS

Job Ticket: 039268 DST#: 2

ATTN: Bruce Reed

Test Start: 2011.01.01 @ 04:05:16

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: 74.00 sec/qt	Cushion Volume: bbl		
Water Loss: 14.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 13500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

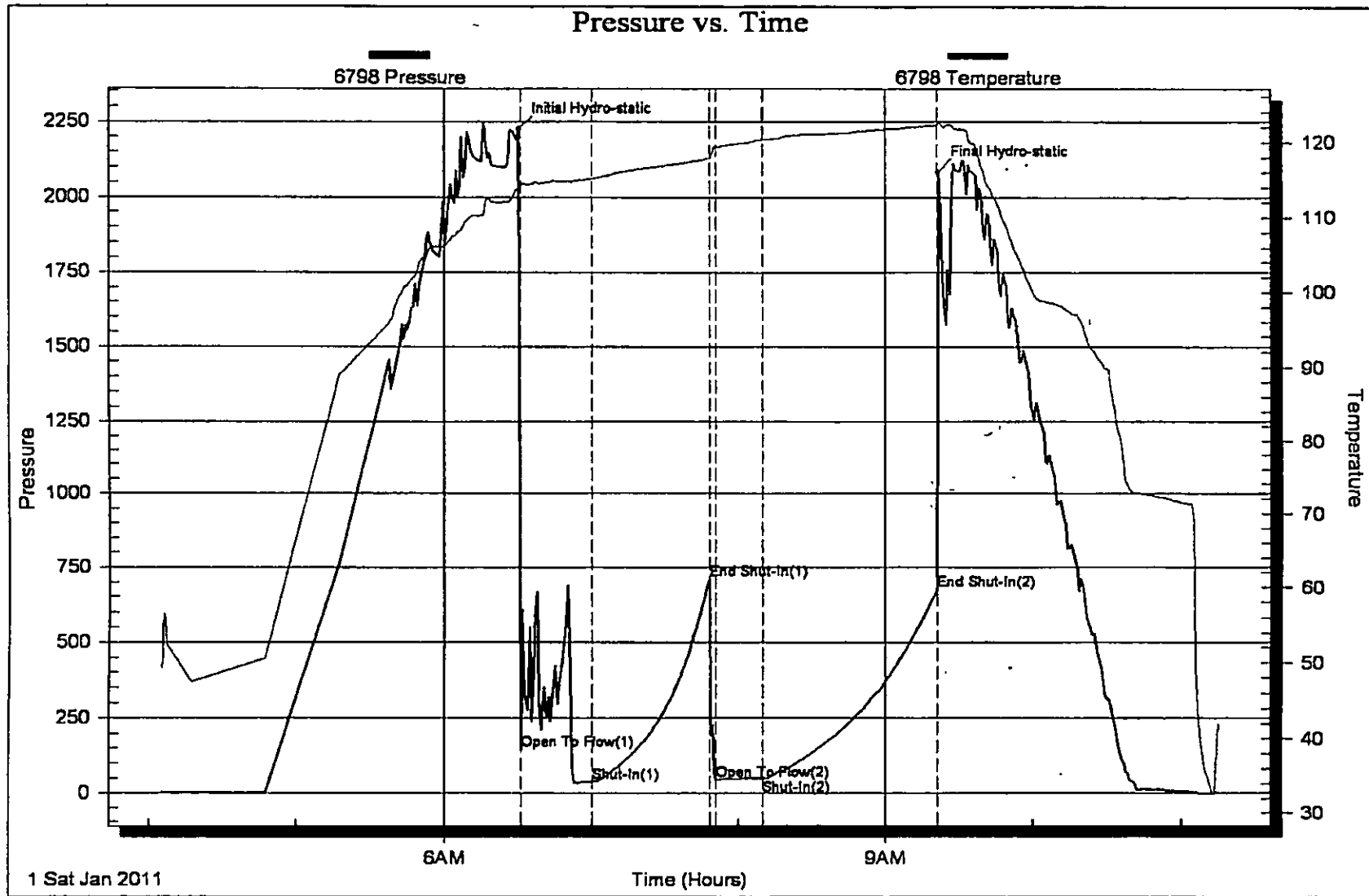
Length ft	Description	Volume bbl
60.00	VSOSM <1% O >99%M	0.842
20.00	SGCM 2%g 98%M	0.281

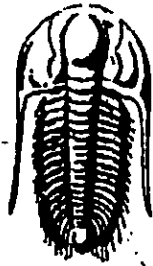
Total Length: 80.00 ft Total Volume: 1.123 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





**TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **Charles N Griffin**

PO Box 347
Pratt, KS 67124

ATTN: Bruce Reed

31-33S-8W Harper KS

#1 Leysa

Start Date: 2011.01.01 @ 21:07:09

End Date: 2011.01.02 @ 04:48:54

Job Ticket #: 039269 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Charles N Griffin

#1 Leysa

31-33S-8W Harper KS

DST # 3

Mississippi

2011.01.01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Charles N Griffin

#1 Leysa

PO Box 347
Pratt, KS 67124

31-33S-8W Harper KS

Job Ticket: 039269 DST#: 3

ATTN: Bruce Reed

Test Start: 2011.01.01 @ 21:07:09

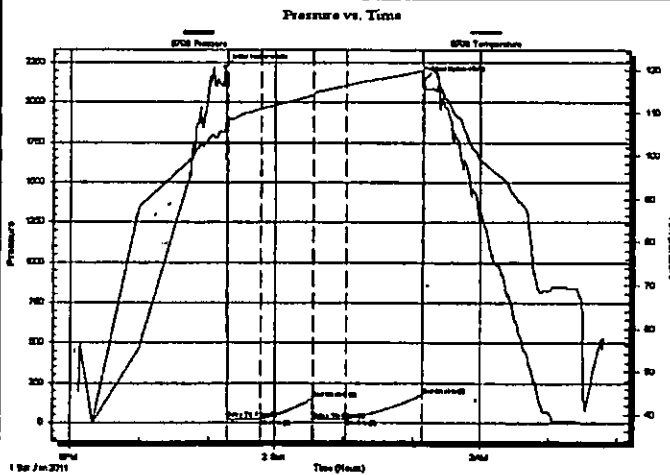
GENERAL INFORMATION:

Formation: Mississippi
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 23:16:54
 Time Test Ended: 04:48:54
 Interval: 4530.00 ft (KB) To 4550.00 ft (KB) (TVD)
 Total Depth: 4550.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole
 Tester: Leal Cason
 Unit No: 45
 Reference Elevations: 1316.00 ft (KB)
 1305.00 ft (CF)
 KB to GRVCF: 11.00 ft

Serial #: 6798 Inside
 Press@RunDepth: 23.63 psig @ 4531.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.01.01 End Date: 2011.01.02 Last Calib.: 2011.01.02
 Start Time: 21:07:10 End Time: 04:48:54 Time On Btm: 2011.01.01 @ 23:14:39
 Time Off Btm: 2011.01.02 @ 02:09:09

TEST COMMENT: IF: Weak Blow, 2 inches
 ISt Bled Off, No Blow back
 FF: Weak Blow, 1 1/2 inches
 FSt Bled Off, No Blow back



PRESSURE SUMMARY

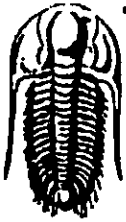
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2221.62	106.07	Initial Hydro-static
3	22.11	107.54	Open To Flow (1)
33	22.61	110.95	Shut-in(1)
79	152.08	114.03	End Shut-in(1)
79	19.53	114.00	Open To Flow (2)
108	23.63	116.49	Shut-in(2)
174	176.59	119.83	End Shut-in(2)
175	2145.95	120.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charles N Griffin

#1 Leysa

PO Box 347
Pratt, KS 67124

31-33S-8W Harper KS

Job Ticket: 039269 DST#: 3

ATTN: Bruce Reed

Test Start: 2011.01.01 @ 21:07:09

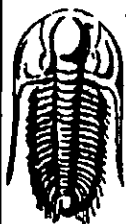
Tool Information

Drill Pipe:	Length: 4517.00 ft	Diameter: 3.80 inches	Volume: 63.36 bbl	Tool Weight: 2100.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 62000.00 lb
			Total Volume: 63.36 bbl	Tool Chased ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4530.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4515.00	
Hydraulic tool	5.00			4520.00	
Packer	5.00			4525.00	20.00 Bottom Of Top Packer
Packer	5.00			4530.00	
Stubb	1.00			4531.00	
Recorder	0.00	6798	Inside	4531.00	
Recorder	0.00	8367	Outside	4531.00	
Perforations	16.00			4547.00	
Bullnose	3.00			4550.00	20.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Charles N Griffin

#1 Leysa

PO Box 347
Pratt, KS 67124

31-33S-8W Harper KS

Job Ticket: 039269

DST#: 3

ATTN: Bruce Reed

Test Start: 2011.01.01 @ 21:07:09

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:

bbf

Water Loss: 14.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 13500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
20.00	Mud	0.281

Total Length: 20.00 ft

Total Volume: 0.281 bbf

Num Fluid Samples: 0

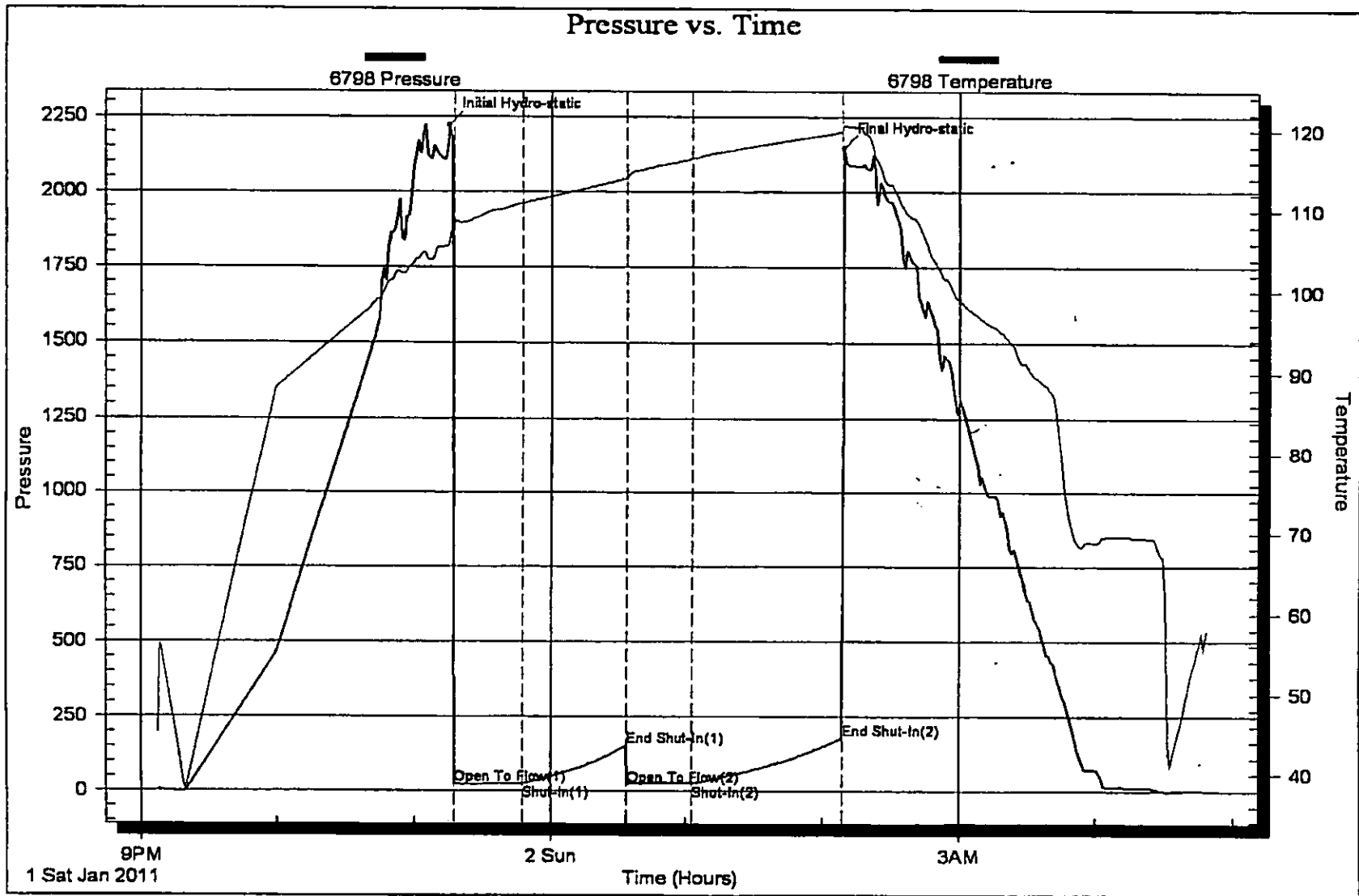
Num Gas Bombs: 0

Serial #:

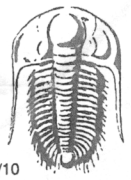
Laboratory Name:

Laboratory Location:

Recovery Comments:



3



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
JAN 04 2011

Test Ticket

NO. 039267 15247

4/10

BY: _____

Well Name & No. Leysa #1 Test No. 1 Date 12/31/10
 Company Charles N. Griffin Elevation 1316 KB 1305 GL
 Address PO Box 347 Pratt KS 67124
 Co. Rep / Geo. Bruce Reid Rig Val rig #5
 Location: Sec. 31 Twp. 33S Rge. 8W Co. Harper State KS

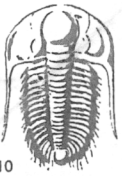
Interval Tested 4445 - 4515 Zone Tested Mississippi
 Anchor Length 7040 Drill Pipe Run 4451 Mud Wt. 9.3
 Top Packer Depth 4540 Drill Collars Run 0 Vis 45
 Bottom Packer Depth 4545 Wt. Pipe Run 0 WL 12.6
 Total Depth 4515 Chlorides 9000 ppm System LCM 4#
 Blow Description Packer Failure, Tried to set 3 times, then pulled first

Rec	Feet of	%gas	%oil	%water	%mud		
<u>420</u>	<u>Drig Mud</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	<u>420</u>	BHT	Gravity <u>NIC</u>	API RW <u>NIC</u>	@ <u>NIC</u>	F Chlorides <u>NIC</u>	ppm

(A) Initial Hydrostatic Test 1025 T-On Location 15:15
 (B) First Initial Flow Jars T-Started 15:29
 (C) First Final Flow Safety Joint T-Open _____
 (D) Initial Shut-In Circ Sub T-Pulled _____
 (E) Second Initial Flow Hourly Standby T-Out 20:54
 (F) Second Final Flow Mileage (140) 175 Comments Packer Failure
 (G) Final Shut-In Sampler tried to set
 (H) Final Hydrostatic Straddle 3 times
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Initial Open _____
 Initial Shut-In _____
 Final Flow _____
 Final Shut-In _____
 Sub Total 1200
 Total 1200
 MP/DST Disc't _____

Approved By Bruce A. Reid Our Representative [Signature]

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
JAN 04 2011

Test Ticket

NO. 039268

Well Name & No. Laysa #1 Test No. 2 Date 01/01/11
 Company Charles N. Griffin Elevation 1316 KB 1305 GL
 Address PO BOX 347 Pratt, KS 67124
 Co. Rep / Geo. Bruce Reed Rig Val rig #5
 Location: Sec. 31 Twp. 33S Rge. 8W Co. Harper State KS

Interval Tested 4502 - 4515 Zone Tested Mississippi
 Anchor Length 13 Drill Pipe Run 4489 Mud Wt. 9.3
 Top Packer Depth 4497 Drill Collars Run 0 Vis 74
 Bottom Packer Depth 4502 Wt. Pipe Run 0 WL 14.2
 Total Depth 4515 Chlorides 13500 ppm System LCM 4TT

Blow Description IF: weak Blow, Built to 4 1/2 inches
ISI: Bled off, NO Blowback
FF: weak Blow, Built to 2 1/2 inches
FSI: Bled off, NO Blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>SGCM</u>	<u>2</u>		<u>98</u>	
<u>60</u>	<u>V505M</u>		<u>-1</u>	<u>+99</u>	

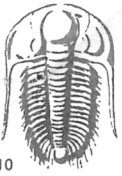
Rec Total 80 BHT 122° Gravity N/C API RW N/C @ N/C °F Chlorides N/C ppm

(A) Initial Hydrostatic 2223 Test 1225- T-On Location 04:00
 (B) First Initial Flow 144 Jars _____ T-Started 04:05
 (C) First Final Flow 36 Safety Joint _____ T-Open 06:30
 (D) Initial Shut-In 710 Circ Sub _____ T-Pulled 09:21
 (E) Second Initial Flow 43 Hourly Standby _____ T-Out 11:15
 (F) Second Final Flow 47 Mileage (140) 175- Comments _____
 (G) Final Shut-In 674 Sampler _____
 (H) Final Hydrostatic 2083 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 8
 Day Standby _____ Total 1400-
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1400

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 60
 Approved By Bruce A Reed

Our Representative [Signature]

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
JAN 04 2011

Test Ticket

No. 039269

BY: _____

Well Name & No. Leysa #1 Test No. 3 Date 01/01/11
 Company Charles M. Griffin Elevation 1316 KB 1305 GL
 Address PO Box 347 Pratt KS 67124
 Co. Rep / Geo. Bruce Reen Rig Val rig #5
 Location: Sec. 31 Twp. 33S Rge. 8W Co. Harper State KS

Interval Tested 4530 - 4550 Zone Tested Mississippi
 Anchor Length 20 Drill Pipe Run 4517 Mud Wt. 8.9
 Top Packer Depth 4525 Drill Collars Run 0 Vis 50
 Bottom Packer Depth 4530 Wt. Pipe Run 0 WL 14.2
 Total Depth 4550 Chlorides 13500 ppm System LCM 4 #

Blow Description IF: Weak Blow, 2 inches
ISI: Bled off, no blowback
FF: Weak Blow, 1 1/2 inches
FSI: Bled off, no blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mud</u>				

Rec Total 20 BHT 120° Gravity N/C API RW N/C @ N/C Chlorides N/C ppm
 (A) Initial Hydrostatic 2222 Test 1225 T-On Location 20:30
 (B) First Initial Flow 22 Jars _____ T-Started 21:07
 (C) First Final Flow 23 Safety Joint _____ T-Open 23:16
 (D) Initial Shut-In 152 Circ Sub _____ T-Pulled 02:08
 (E) Second Initial Flow 20 Hourly Standby _____ T-Out 04:48
 (F) Second Final Flow 24 Mileage 1400 175 Comments _____
 (G) Final Shut-In 177 Sampler _____
 (H) Final Hydrostatic 2146 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 60
 Sub Total 1400
 Total 1400
 MP/DST Disc't _____

Approved By Bruce Reen Our Representative [Signature]

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