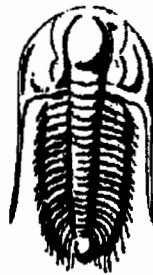


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15-051-26160

29-12s-20w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **John C Ginther**

2719 Ash Street
Hays, KS 67601

ATTN: Marc Downing

29-12s-20w Ellis,KS

Ginther A #1

Start Date: 2011.07.15 @ 23:41:57

End Date: 2011.07.16 @ 06:11:27

Job Ticket #: 43542 DST #: 1

RECEIVED
SEP 20 2011
KCC WICHITA

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

John C Ginther

Ginther A #1

29-12s-20w Ellis,KS

DST # 1

"C"

2011.07.15



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

John C Ginther

2719 Ash Street
Hays, KS 67601

ATTN: Marc Downing

Ginther A #1

29-12s-20w Ellis, KS

Job Ticket: 43542

DST#: 1

Test Start: 2011.07.15 @ 23:41:57

GENERAL INFORMATION:

Formation: "C"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:46:42

Time Test Ended: 06:11:27

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 54

Interval: 3487.00 ft (KB) To 3514.00 ft (KB) (TVD)

Total Depth: 3514.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2180.00 ft (KB)

2172.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8673

Inside

Press@RunDepth: 34.07 psig @ 3489.00 ft (KB)

Start Date: 2011.07.15

End Date:

2011.07.16

Capacity: 8000.00 psig

Last Calib.: 2011.07.16

Start Time: 23:41:59

End Time:

06:11:27

Time On Btm: 2011.07.16 @ 01:46:27

Time Off Btm: 2011.07.16 @ 04:26:12

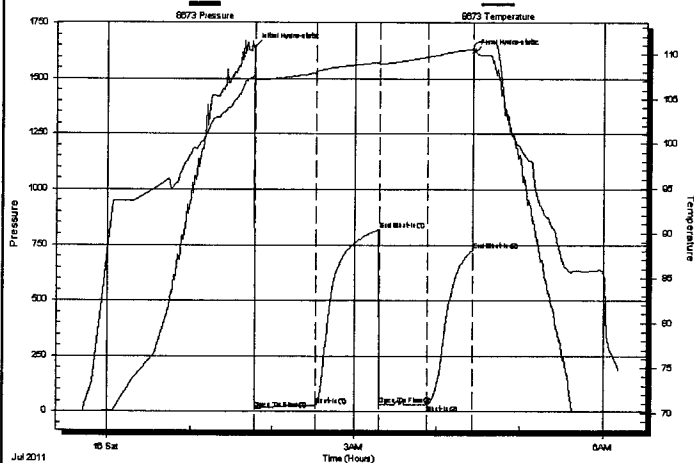
TEST COMMENT: IFF-Weak Blow ,Built to 1-1/2"

ISI-Dead

FFP-Weak Blow ,Built to 1/2"

FSI-Dead

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1640.68	107.60	Initial Hydro-static
1	10.80	106.71	Open To Flow (1)
46	28.71	108.03	Shut-In(1)
91	818.74	109.11	End Shut-In(1)
92	31.18	108.81	Open To Flow (2)
127	34.07	109.73	Shut-In(2)
160	725.48	110.60	End Shut-In(2)
160	1616.12	110.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Gassy Mud	0.43

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

John C Ginther

Ginther A #1

2719 Ash Street
Hays, KS 67601

29-12s-20w Ellis,KS

Job Ticket: 43542

DST#: 1

ATTN: Marc Dow ning

Test Start: 2011.07.15 @ 23:41:57

Tool Information

Drill Pipe:	Length: 3454.00 ft	Diameter: 3.80 inches	Volume: 48.45 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 48000.00 lb
		Total Volume: 48.60 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3487.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	48.00 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			3467.00	
Shut In Tool	5.00			3472.00	
Hydraulic tool	5.00			3477.00	
Packer	5.00			3482.00	21.00 Bottom Of Top Packer
Packer	5.00			3487.00	
Stubb	1.00			3488.00	
Perforations	1.00			3489.00	
Recorder	0.00	8673	Inside	3489.00	
Recorder	0.00	6755	Outside	3489.00	
Perforations	22.00			3511.00	
Bullnose	3.00			3514.00	27.00 Bottom Packers & Anchor

Total Tool Length: 48.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

John C Ginther

Ginther A #1

2719 Ash Street
Hays, KS 67601

29-12s-20w Ellis,KS

Job Ticket: 43542

DST#: 1

ATTN: Marc Downing

Test Start: 2011.07.15 @ 23:41:57

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: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Gassy Mud	0.428

Total Length: 50.00 ft

Total Volume: 0.428 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

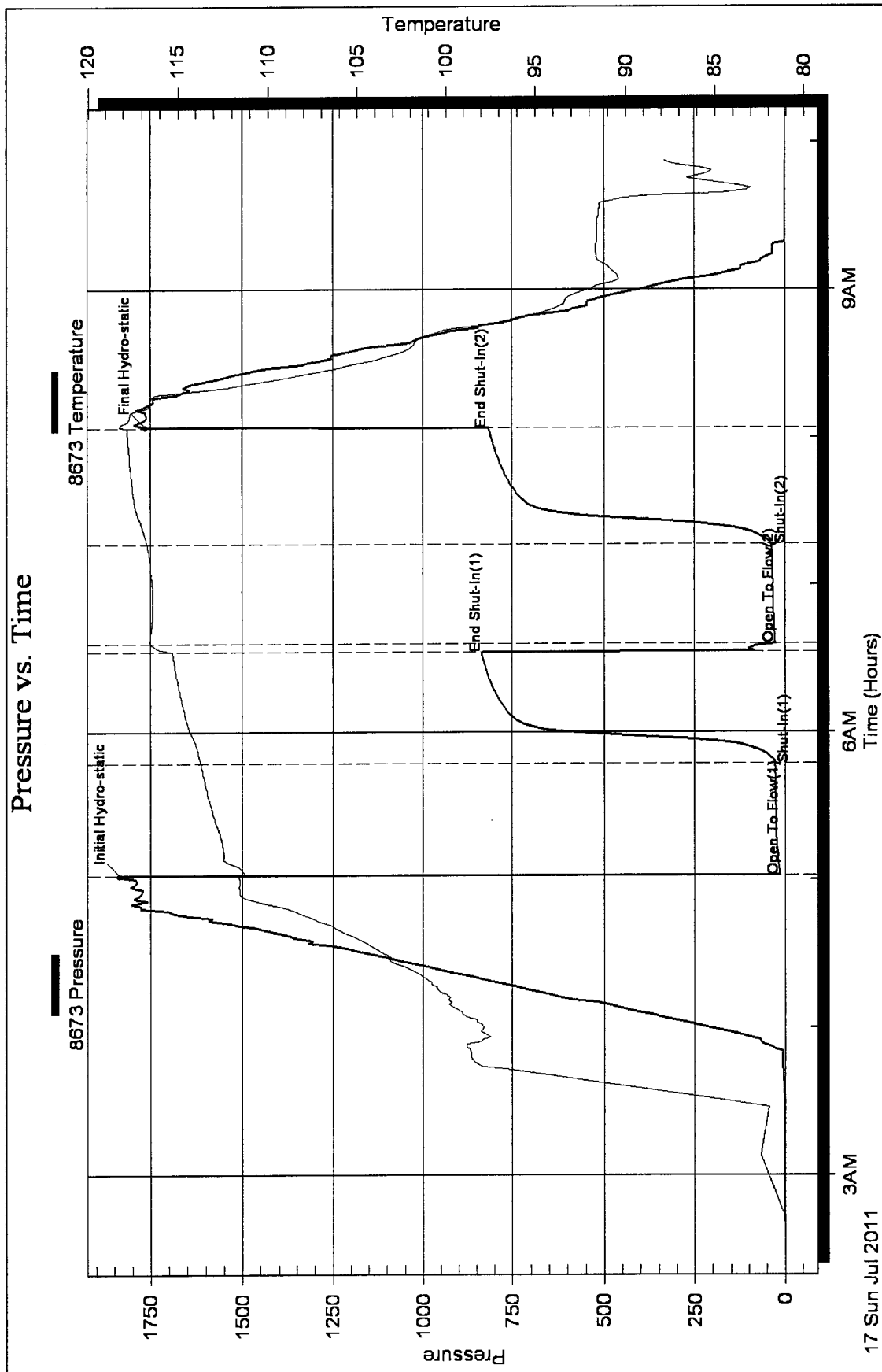
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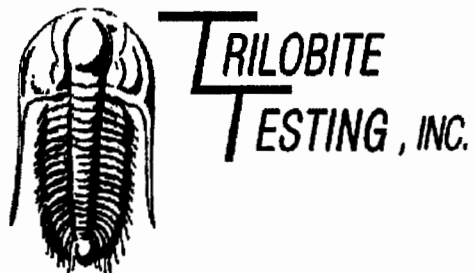
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **John C Ginther**

2719 Ash Street
Hays, KS 67601

ATTN: Marc Downing

29-12s-20w Ellis,KS

Ginther A #1

Start Date: 2011.07.17 @ 02:40:51

End Date: 2011.07.17 @ 09:52:06

Job Ticket #: 43543 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

John C Ginther

Ginther A #1

29-12s-20w Ellis,KS

DST # 2

Marmaton

2011.07.17



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John C Ginther

2719 Ash Street
Hays, KS 67601

ATTN: Marc Downing

Ginther A #1

29-12s-20w Ellis, KS

Job Ticket: 43543

DST#: 2

Test Start: 2011.07.17 @ 02:40:51

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:01:51

Time Test Ended: 09:52:06

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 54

Interval: **3767.00 ft (KB) To 3791.00 ft (KB) (TVD)**

Total Depth: 3791.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2180.00 ft (KB)

2172.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8673 Inside

Press@RunDepth: 36.41 psig @ 3768.00 ft (KB)

Start Date: 2011.07.17

End Date:

2011.07.17

Start Time: 02:40:53

End Time:

09:52:06

Capacity: 8000.00 psig

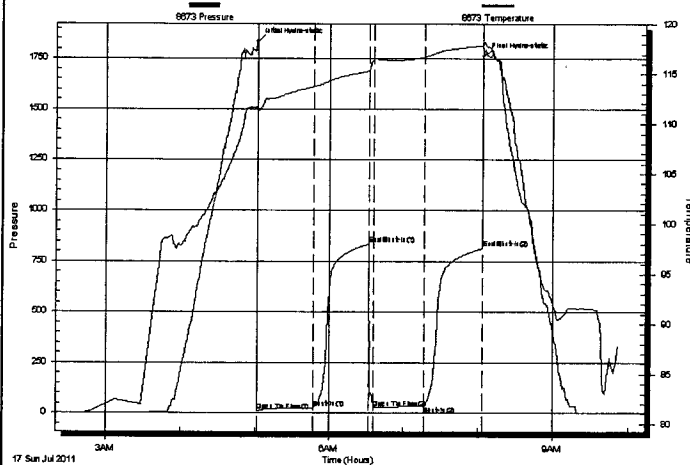
Last Calib.: 2011.07.17

Time On Btmr 2011.07.17 @ 05:01:36

Time Off Btmr 2011.07.17 @ 08:04:06

TEST COMMENT: IFF-Weak Blow, Built to 4"
ISI-Dead
FFP-Weak Blow, Built to 5"
FSI-Dead

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1833.39	111.70	Initial Hydro-static
1	12.46	110.73	Open To Flow (1)
46	27.61	113.75	Shut-In(1)
91	831.89	115.31	End Shut-In(1)
95	25.34	116.52	Open To Flow (2)
135	36.41	116.70	Shut-In(2)
182	814.43	117.83	End Shut-In(2)
183	1762.92	118.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MCO-60%O-40%M	0.05
55.00	Free Oil	0.59
0.00	60' Gas In Pipe	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

John C Ginther

Ginther A #1

2719 Ash Street
Hays, KS 67601

29-12s-20w Ellis, KS

Job Ticket: 43543

DST#: 2

ATTN: Marc Downing

Test Start: 2011.07.17 @ 02:40:51

Tool Information

Drill Pipe:	Length: 3730.00 ft	Diameter: 3.80 inches	Volume: 52.32 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	45000.00 lb
		Total Volume:	52.47 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3767.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	24.00 ft				
Tool Length:	45.00 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			3747.00	
Shut In Tool	5.00			3752.00	
Hydraulic tool	5.00			3757.00	
Packer	5.00			3762.00	21.00 Bottom Of Top Packer
Packer	5.00			3767.00	
Stubb	1.00			3768.00	
Perforations	0.00			3768.00	
Recorder	0.00	8673	Inside	3768.00	
Recorder	0.00	6755	Outside	3768.00	
Perforations	20.00			3788.00	
Bullnose	3.00			3791.00	24.00 Bottom Packers & Anchor

Total Tool Length: 45.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John C Ginther

Ginther A #1

2719 Ash Street
Hays, KS 67601

29-12s-20w Ellis,KS

Job Ticket: 43543

DST#: 2

ATTN: Marc Downing

Test Start: 2011.07.17 @ 02:40:51

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	MCO-60%O-40%M	0.049
55.00	Free Oil	0.589
0.00	60' Gas In Pipe	0.000

Total Length: 65.00 ft

Total Volume: 0.638 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8673

Inside

John C Ginther

29-12s-20w Ellis, KS

DST Test Number: 2

Pressure vs. Time

