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TRILOBITE
TESTING, INC.

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KCC WICHITA

DRILL STEM TEST REPORT

ORIGINAL

Prepared For: **Great Eastern Energy**

Box 150
Bogue 67625

CONFIDENTIAL

ATTN: Mike Davignon

KCC

AUG 15 2003

25-6-21-Graham-Ks

Mid-American #1

CONFIDENTIAL

Start Date: 2003.06.26 @ 07:58:43

End Date: 2003.06.26 @ 15:33:43

Job Ticket #: 17252

DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

CONFIDENTIAL

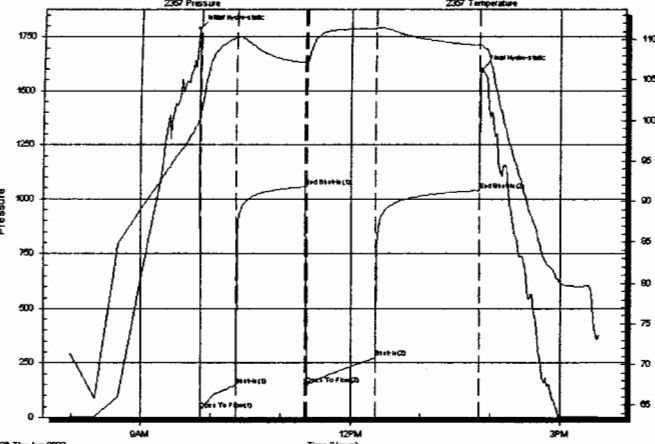
103985
ORIGINAL

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		
Great Eastern Energy Box 150 Bogue 67625 ATTN: Mike Davignon	Mid-American #1 25-6-21-Graham-Ks Job Ticket: 17252 DST#: 1 Test Start: 2003.06.26 @ 07:58:43		

GENERAL INFORMATION:			
Formation:	Topeka		
Deviated:	No	Whipstock:	ft (KB)
Time Tool Opened:	09:51:13		
Time Test Ended:	15:33:43		
Interval:	3393.00 ft (KB) To 3410.00 ft (KB) (TVD)		
Total Depth:	3410.00 ft (KB) (TVD)		
Hole Diameter:	7.88 inches Hole Condition: Poor		
KCC AUG 15 2003 CONFIDENTIAL		Test Type:	Conventional Bottom Hole
		Tester:	Dan Bangle
		Unit No:	21
		Reference Elevations:	2255.00 ft (KB)
			2250.00 ft (CF)
		KB to GRVCF:	5.00 ft

Serial #: 2357	Inside		
Press@RunDepth:	273.37 psig @	3394.00 ft (KB)	Capacity: 7000.00 psig
Start Date:	2003.06.26	End Date:	2003.06.26
Start Time:	07:58:48	End Time:	15:33:42
		Time On Btm:	2003.06.26 @ 09:49:13
		Time Off Btm:	2003.06.26 @ 13:52:13

TEST COMMENT: IF-Strong BOB in 30 min
FF-Strong BOB in 50 min
Times-30-60-60-90

Pressure vs. Time 	PRESSURE SUMMARY <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Time (Min.)</th> <th>Pressure (psig)</th> <th>Temp (deg F)</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>1787.47</td> <td>99.75</td> <td>Initial Hydro-static</td> </tr> <tr> <td>2</td> <td>33.67</td> <td>100.88</td> <td>Open To Flow (1)</td> </tr> <tr> <td>32</td> <td>147.28</td> <td>110.23</td> <td>Shut-In(1)</td> </tr> <tr> <td>92</td> <td>1055.90</td> <td>107.13</td> <td>End Shut-In(1)</td> </tr> <tr> <td>93</td> <td>148.50</td> <td>107.13</td> <td>Open To Flow (2)</td> </tr> <tr> <td>152</td> <td>273.37</td> <td>111.38</td> <td>Shut-In(2)</td> </tr> <tr> <td>241</td> <td>1038.85</td> <td>109.26</td> <td>End Shut-In(2)</td> </tr> <tr> <td>243</td> <td>1600.24</td> <td>109.23</td> <td>Final Hydro-static</td> </tr> </tbody> </table>	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	1787.47	99.75	Initial Hydro-static	2	33.67	100.88	Open To Flow (1)	32	147.28	110.23	Shut-In(1)	92	1055.90	107.13	End Shut-In(1)	93	148.50	107.13	Open To Flow (2)	152	273.37	111.38	Shut-In(2)	241	1038.85	109.26	End Shut-In(2)	243	1600.24	109.23	Final Hydro-static
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Recovery <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Length (ft)</th> <th>Description</th> <th>Volume (bbl)</th> </tr> </thead> <tbody> <tr> <td>605.00</td> <td>Wtr w/ show of heavy oil on top</td> <td>6.82</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Length (ft)	Description	Volume (bbl)	605.00	Wtr w/ show of heavy oil on top	6.82																Gas Rates <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Choke (inches)</th> <th>Pressure (psig)</th> <th>Gas Rate (Mcf/d)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)												
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CONFIDENTIAL

ORIGINAL

TRILOBITE TESTING, INC.		DRILL STEM TEST REPORT		TOOL DIAGRAM																																																																									
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Drill Pipe:	Length: 3208.00 ft	Diameter: 3.80 inches	Volume: 45.00 bbl	Tool Weight:	1500.00 lb																																																																								
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb																																																																								
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy

Mid-American #1

Box 150

25-6-21-Graham-Ks

Bogue 67625

Job Ticket: 17252

DST#: 1

ATTN: Mike Davignon

Test Start: 2003.06.26 @ 07:58:43

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
605.00	Wtr w / show of heavy oil on top	6.820

Total Length: 605.00 ft

Total Volume: 6.820 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

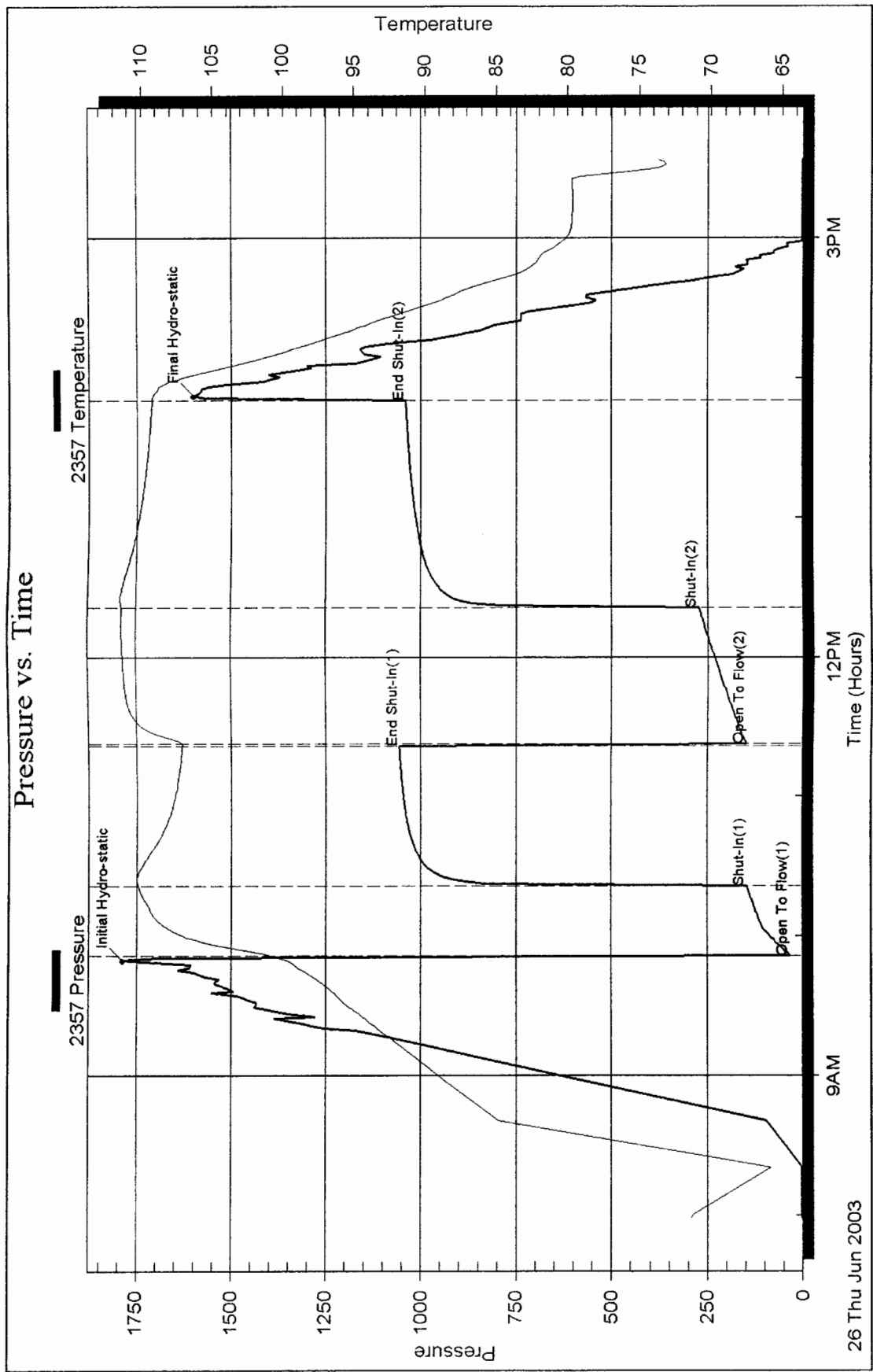
25-6-21-Graham-Ks

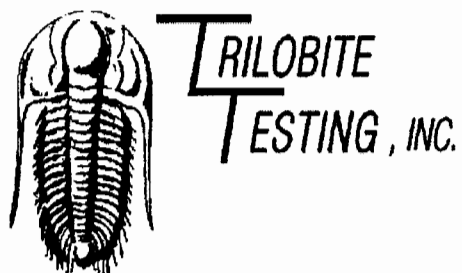
Great Eastern Energy

Inside

Serial #: 2357

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy**

Box 150
Bogue 67625

ATTN: Mike Davignon

25-6-21-Graham-Ks

Mid-American #1

Start Date: 2003.06.26 @ 21:01:17

End Date: 2003.06.27 @ 03:50:47

Job Ticket #: 17253 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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


**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Eastern Energy

Mid-American #1

Box 150
Bogue 67625

25-6-21-Graham-Ks

Job Ticket: 17253

DST#: 2

ATTN: Mike Davignon

Test Start: 2003.06.26 @ 21:01:17

GENERAL INFORMATION:

Formation: **Lower Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:39:17

Time Test Ended: 03:50:47

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: **3415.00 ft (KB) To 3430.00 ft (KB) (TVD)**

Reference Elevations: 2255.00 ft (KB)

Total Depth: 3430.00 ft (KB) (TVD)

2250.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 2357

Inside

Press@RunDepth: 202.33 psig @ 3416.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2003.06.26

End Date:

2003.06.27

Last Calib.: 2003.06.27

Start Time: 21:01:22

End Time:

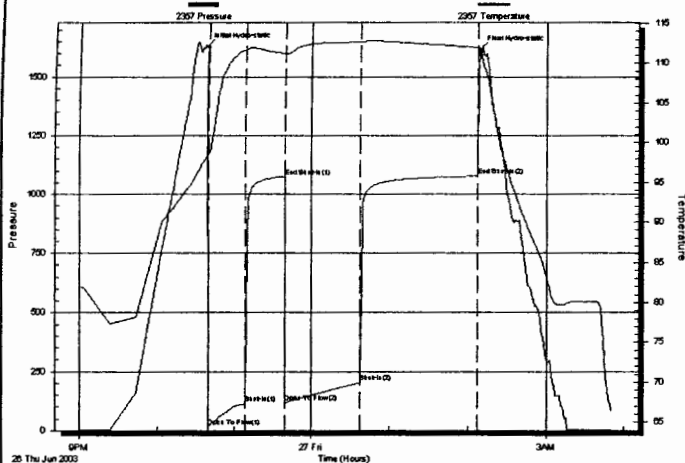
03:50:46

Time On Btm: 2003.06.26 @ 22:37:17

Time Off Btm: 2003.06.27 @ 02:08:17

TEST COMMENT: IF-Weak building to 8" fair blow
FF-WEak building to 2"
Times-30-30-60-90

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1631.18	97.94	Initial Hydro-static
2	16.40	98.53	Open To Flow (1)
32	114.56	111.74	Shut-In (1)
62	1075.34	111.23	End Shut-In (1)
63	117.26	111.21	Open To Flow (2)
121	202.33	112.67	Shut-In (2)
210	1076.54	112.03	End Shut-In (2)
211	1618.62	111.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
372.00	Wtr Rw .30 @ 78 = 38000ppm	3.55
20.00	Heavy Oil	0.28

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern Energy

Mid-American #1

Box 150
Bogue 67625

25-6-21-Graham-Ks

Job Ticket: 17253

DST#: 2

ATTN: Mike Davignon

Test Start: 2003.06.26 @ 21:01:17

Tool Information

Drill Pipe:	Length: 3236.00 ft	Diameter: 3.80 inches	Volume: 45.39 bbl	Tool Weight: 1500.00 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume:	46.29 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3415.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3395.00	
S.I. Tool	5.00			3400.00	
HMV	5.00			3405.00	
Packer	5.00			3410.00	21.00 Bottom Of Top Packer
Packer	5.00			3415.00	
Stubb	1.00			3416.00	
Recorder	0.00	2357	Inside	3416.00	
Perforations	11.00			3427.00	
Recorder	0.00	13254	Outside	3427.00	
Bullnose	3.00			3430.00	15.00 Bottom Packers & Anchor
Total Tool Length:	36.00				


**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy

Mid-American #1

Box 150
Bogue 67625

25-6-21-Graham-Ks

Job Ticket: 17253

DST#: 2

ATTN: Mike Davignon

Test Start: 2003.06.26 @ 21:01:17

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: 38000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
372.00	Wtr Rw .30 @ 78 = 38000ppm	3.551
20.00	Heavy Oil	0.281

Total Length: 392.00 ft

Total Volume: 3.832 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

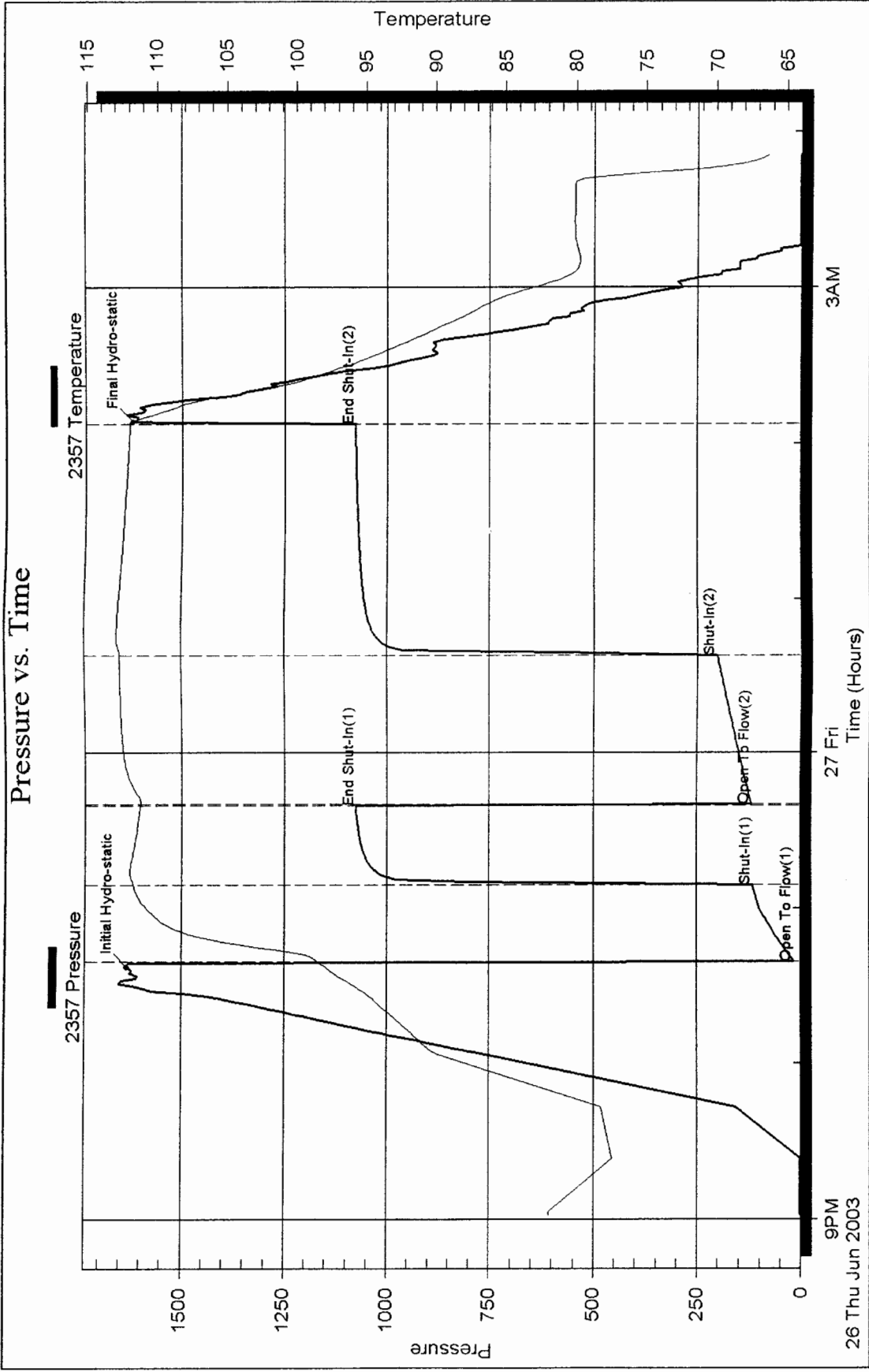
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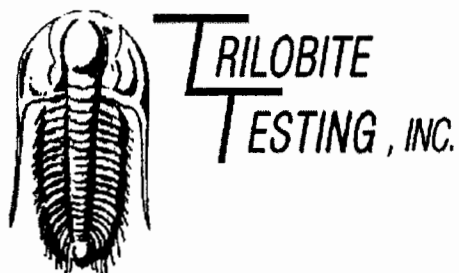
Serial #: 2357

Inside Great Eastern Energy

25-6-21-Graham-Ks

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy**

Box 150
Bogue 67625

ATTN: Mike Davignon

25-6-21-Graham-Ks

Mid-American #1

Start Date: 2003.06.27 @ 13:58:07

End Date: 2003.06.27 @ 21:52:37

Job Ticket #: 17254 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Eastern Energy

Box 150
Bogue 67625

ATTN: Mike Davignon

Mid-American #1

25-6-21-Graham-Ks

Job Ticket: 17254

DST#: 3

Test Start: 2003.06.27 @ 13:58:07

GENERAL INFORMATION:

Formation: A-C LKC

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:35:07

Time Test Ended: 21:52:37

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: 3480.00 ft (KB) To 3534.00 ft (KB) (TVD)

Total Depth: 3534.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2255.00 ft (KB)

2250.00 ft (CF)

KB to GRV/CF: 5.00 ft

Serial #: 2357

Inside

Press@RunDepth: 344.05 psig @ 3484.00 ft (KB)

Start Date: 2003.06.27

End Date:

2003.06.27

Start Time: 13:58:12

End Time:

21:52:36

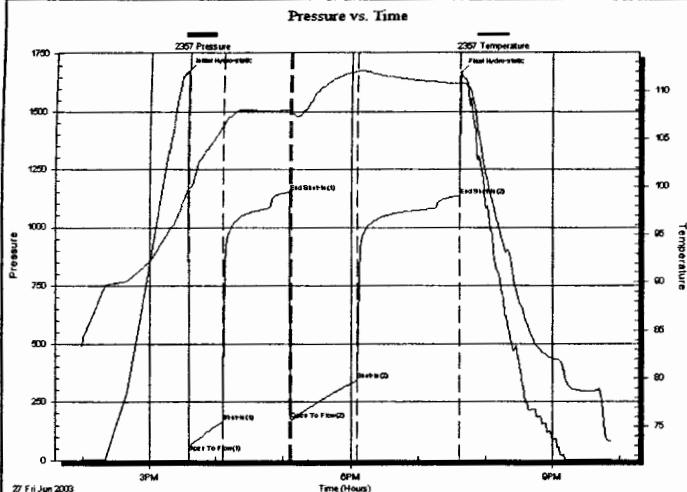
Capacity: 7000.00 psig

Last Calib.: 2003.06.27

Time On Btm: 2003.06.27 @ 15:33:37

Time Off Btm: 2003.06.27 @ 19:37:37

TEST COMMENT: IF-Strong BOB in 5 min
FF-Strong BOB in 10 min
Times-30-60-60-90



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1672.09	99.46	Initial Hydro-static
2	32.52	99.74	Open To Flow (1)
33	166.11	106.30	Shut-in (1)
93	1152.21	107.96	End Shut-in (1)
94	173.48	107.88	Open To Flow (2)
152	344.05	112.06	Shut-in (2)
243	1135.98	110.77	End Shut-in (2)
244	1668.27	110.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
340.00	Wtr Rw .28 @ 77 = 41000ppm	3.65
154.00	MGSyO 20% m 20% g 60% o	2.16
310.00	CGSyO 20% g 80% o	4.35

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern Energy

Mid-American #1

Box 150
Bogue 67625

25-6-21-Graham-Ks

Job Ticket: 17254

DST#: 3

ATTN: Mike Davignon

Test Start: 2003.06.27 @ 13:58:07

Tool Information

Drill Pipe:	Length: 3362.00 ft	Diameter: 3.80 inches	Volume: 47.16 bbl	Tool Weight: 2000.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume: 47.76 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3480.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3460.00	
S.I. Tool	5.00			3465.00	
HMV	5.00			3470.00	
Packer	5.00			3475.00	21.00 Bottom Of Top Packer
Packer	5.00			3480.00	
Stubb	1.00			3481.00	
Perforations	2.00			3483.00	
C.O. Sub	1.00			3484.00	
Recorder	0.00	2357	Inside	3484.00	
Blank Spacing	31.00			3515.00	
C.O. Sub	1.00			3516.00	
Recorder	0.00	13254	Outside	3516.00	
Perforations	15.00			3531.00	
Bullnose	3.00			3534.00	54.00 Bottom Packers & Anchor

Total Tool Length: 75.00

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY																												
	Great Eastern Energy Box 150 Bogue 67625 ATTN: Mike Davignon	Mid-American #1 25-6-21-Graham-Ks Job Ticket: 17254 DST#: 3 Test Start: 2003.06.27 @ 13:58:07																													
Mud and Cushion Information																															
<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Mud Type: Gel Chem</td> <td style="width: 33%;">Cushion Type:</td> <td style="width: 15%;">Oil API:</td> <td style="width: 19%;">36 deg API</td> </tr> <tr> <td>Mud Weight: 9.00 lb/gal</td> <td>Cushion Length: ft</td> <td>Water Salinity:</td> <td>ppm</td> </tr> <tr> <td>Viscosity: 57.00 sec/qt</td> <td>Cushion Volume: bbl</td> <td></td> <td></td> </tr> <tr> <td>Water Loss: 6.39 in³</td> <td>Gas Cushion Type:</td> <td></td> <td></td> </tr> <tr> <td>Resistivity: ohm.m</td> <td>Gas Cushion Pressure: psig</td> <td></td> <td></td> </tr> <tr> <td>Salinity: 2000.00 ppm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Filter Cake: inches</td> <td></td> <td></td> <td></td> </tr> </table>				Mud Type: Gel Chem	Cushion Type:	Oil API:	36 deg API	Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm	Viscosity: 57.00 sec/qt	Cushion Volume: bbl			Water Loss: 6.39 in ³	Gas Cushion Type:			Resistivity: ohm.m	Gas Cushion Pressure: psig			Salinity: 2000.00 ppm				Filter Cake: inches			
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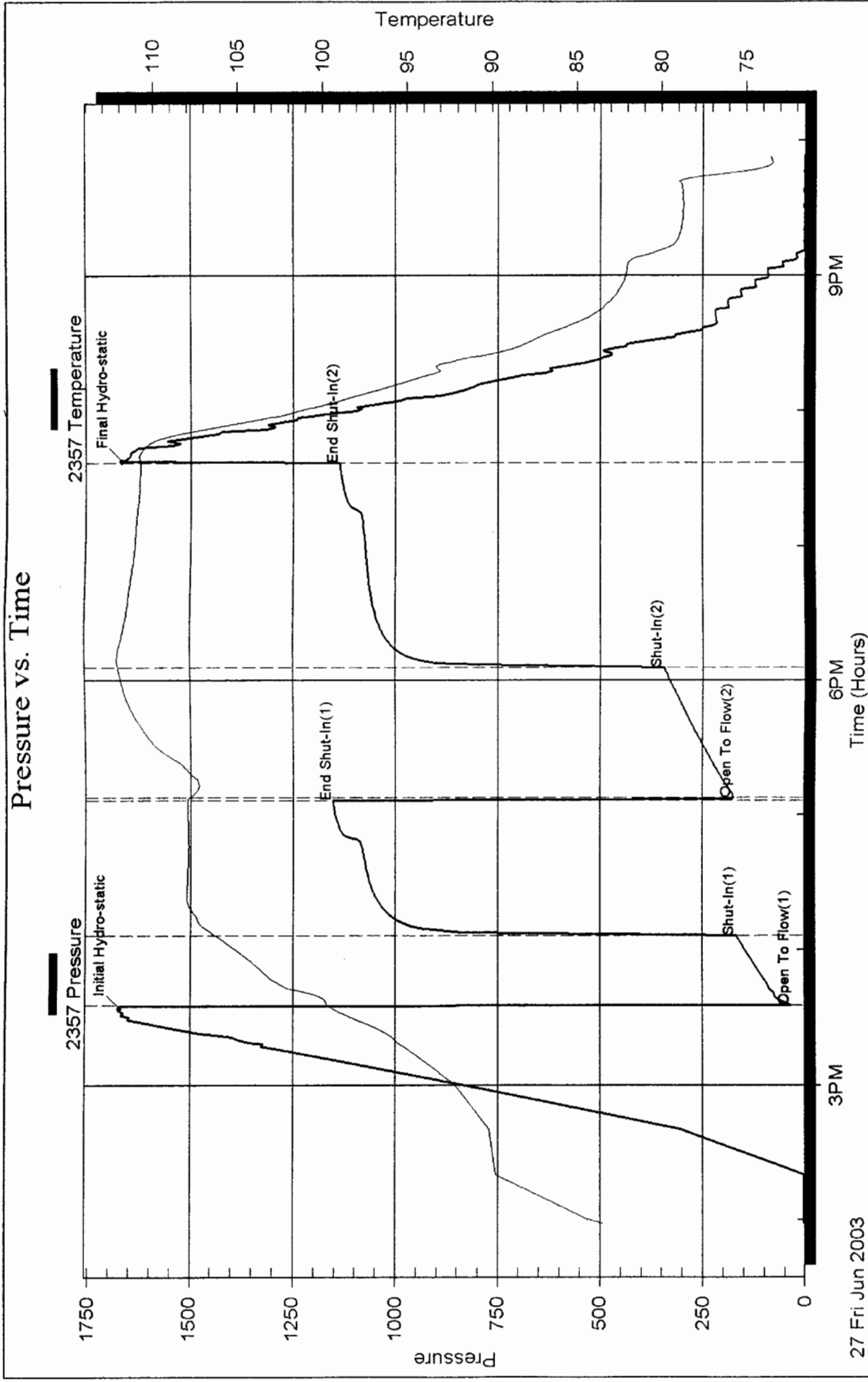
Serial #: 2357

Inside

Great Eastern Energy

25-6-21-Graham-Ks

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy**

Box 150
Bogue 67625

ATTN: Mike Davignon

25-6-21-Graham-Ks

Mid-American #1

Start Date: 2003.06.28 @ 03:38:58

End Date: 2003.06.28 @ 09:48:28

Job Ticket #: 17255 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

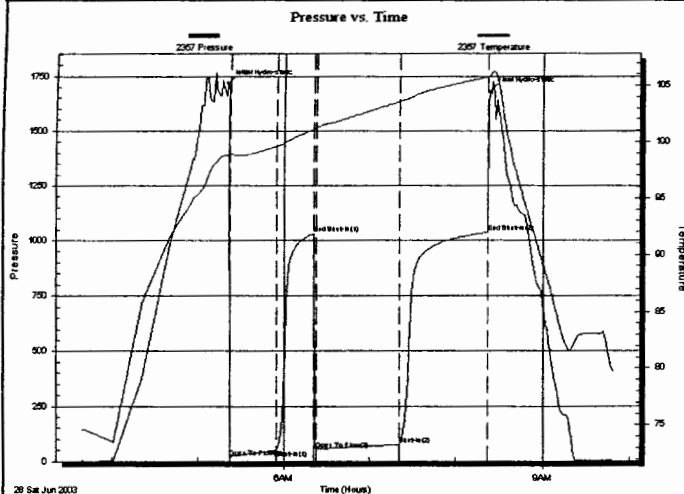
**TRILOBITE
TESTING, INC.**

Test Start: 2003.06.28 @ 03:38:58

KB to GR/CF: 5.00 ft

Time Off Btn: 2003.06.28 @ 08:23:28

TEST COMMENT: IF-Weak building to 2"
FF-Weak building to 3"
Times-30-30-60-60



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1719.28	98.80	Initial Hydro-static
2	17.80	98.91	Open To Flow (1)
35	49.89	99.59	Shut-In(1)
61	1031.56	101.10	End Shut-In(1)
63	53.69	101.22	Open To Flow (2)
121	75.30	103.57	Shut-In(2)
182	1036.49	105.73	End Shut-In(2)
184	1681.29	105.89	Final Hydro-static

Length (ft)	Description	Volume (bbl)
62.00	HMCGsyO 20%m 10%g 70%o	0.30
124.00	CGsyO 10%g 90%o	0.64
0.00	130 GIP	0.00

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern Energy

Mid-American #1

Box 150
Bogue 67625

25-6-21-Graham-Ks

Job Ticket: 17255

DST#: 4

ATTN: Mike Davignon

Test Start: 2003.06.28 @ 03:38:58

Tool Information

Drill Pipe:	Length: 3392.00 ft	Diameter: 3.80 inches	Volume: 47.58 bbl	Tool Weight: 1500.00 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 45000.00 lb
		Total Volume: 48.48 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	63.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3533.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3513.00	
S.I. Tool	5.00			3518.00	
HMV	5.00			3523.00	
Packer	5.00			3528.00	21.00 Bottom Of Top Packer
Packer	5.00			3533.00	
Stubb	1.00			3534.00	
Recorder	0.00	2357	Inside	3534.00	
Perforations	13.00			3547.00	
Recorder	0.00	13254	Outside	3547.00	
Bullnose	3.00			3550.00	17.00 Bottom Packers & Anchor
Total Tool Length:		38.00			

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY												
	Great Eastern Energy Box 150 Bogue 67625 ATTN: Mike Davignon	Mid-American #1 25-6-21-Graham-Ks Job Ticket: 17255 DST#: 4 Test Start: 2003.06.28 @ 03:38:58													
Mud and Cushion Information															
Mud Type: Gel Chem Mud Weight: 9.00 lb/gal Viscosity: 57.00 sec/qt Water Loss: 6.39 in ³ Resistivity: ohm.m Salinity: 2000.00 ppm Filter Cake: inches		Cushion Type: Cushion Length: ft Cushion Volume: bbl Gas Cushion Type: Gas Cushion Pressure: psig													
		Oil API: 36 deg API Water Salinity: ppm													
Recovery Information															
Recovery Table															
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Length ft	Description	Volume bbl													
62.00	HIMCGsyO 20%m 10%g 70%o	0.305													
124.00	CGsyO 10%g 90%o	0.637													
0.00	130 GIP	0.000													
Total Length: 186.00 ft		Total Volume: 0.942 bbl													
Num Fluid Samples: 0		Num Gas Bombs: 0 Serial #:													
Laboratory Name:		Laboratory Location:													
Recovery Comments:															

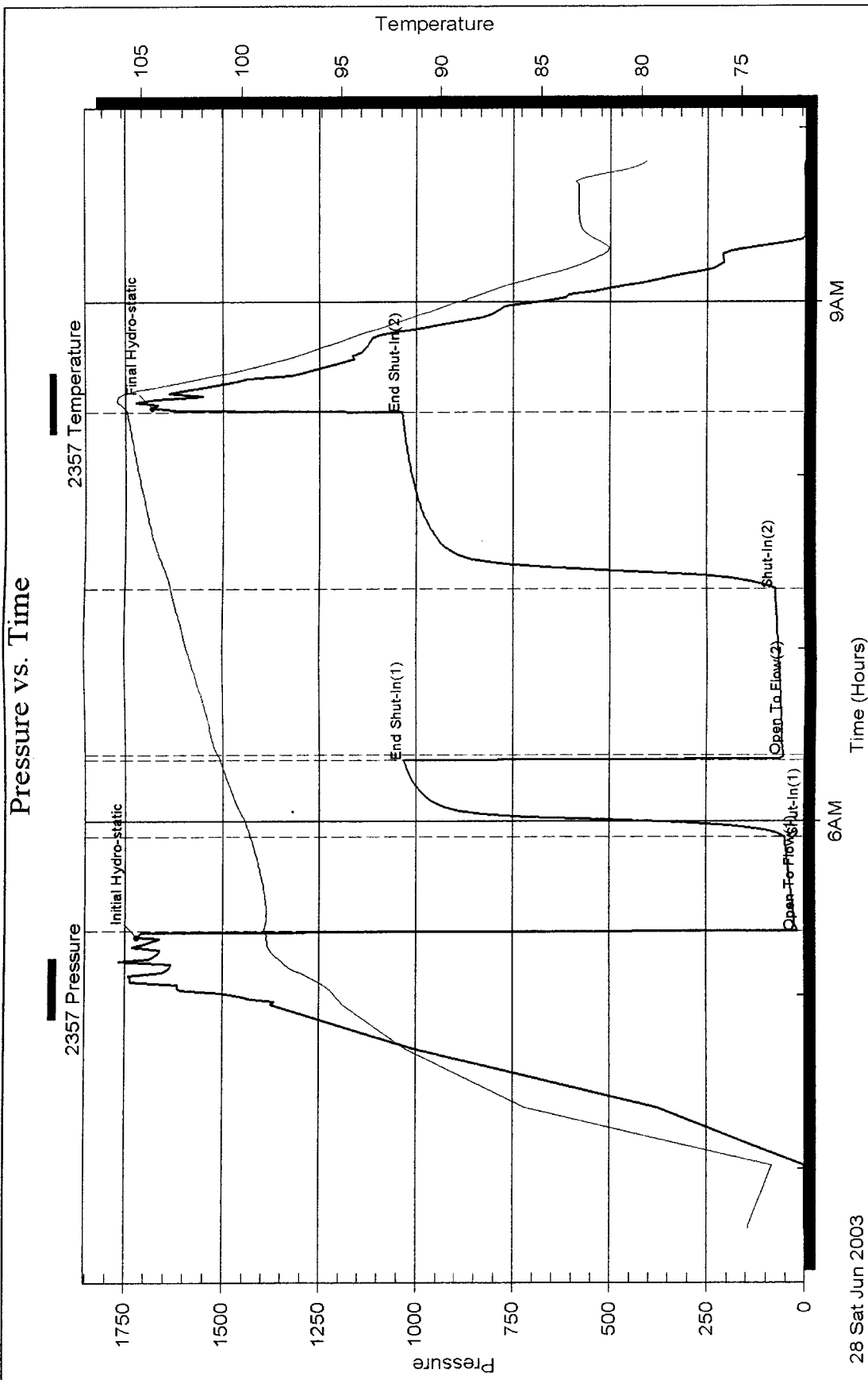
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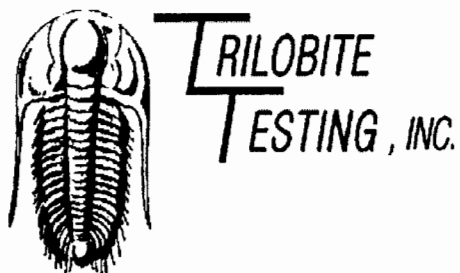
Inside

Great Eastern Energy

25-6-21-Graham-Ks

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy**

Box 150
Bogue 67625

ATTN: Mike Davignon

25-6-21-Graham-Ks

Mid-American #1

Start Date: 2003.06.28 @ 15:31:37

End Date: 2003.06.28 @ 22:45:07

Job Ticket #: 17256 DST #: 5

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Great Eastern Energy

Box 150
Bogue 67625

ATTN: Mike Davignon

Mid-American #1

25-6-21-Graham-Ks

Job Ticket: 17256

DST#: 5

Test Start: 2003.06.28 @ 15:31:37

GENERAL INFORMATION:

Formation: E-F LKC

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:53:37

Time Test Ended: 22:45:07

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: 3548.00 ft (KB) To 3570.00 ft (KB) (TVD)

Total Depth: 3570.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2255.00 ft (KB)

2250.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 2357

Inside

Press@RunDepth: 397.22 psig @ 3549.00 ft (KB)

Start Date: 2003.06.28

End Date: 2003.06.28

Start Time: 15:31:42

End Time: 22:45:06

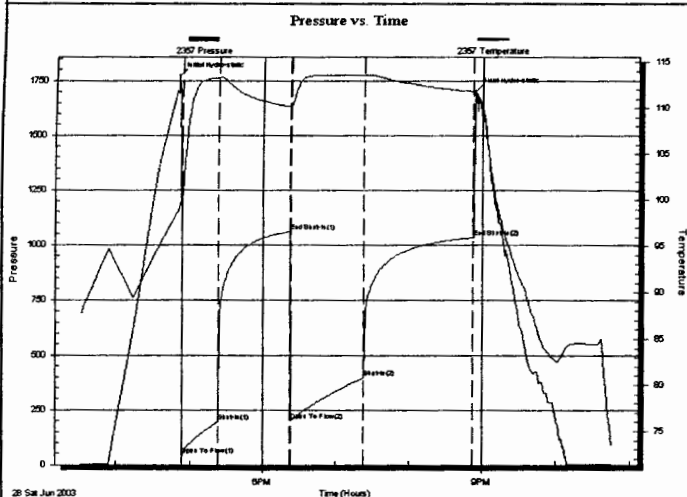
Capacity: 7000.00 psig

Last Calib.: 2003.06.28

Time On Btmr: 2003.06.28 @ 16:50:37

Time Off Btmr: 2003.06.28 @ 20:54:07

TEST COMMENT: IF-Strong BOB in 8 min
FF-Strong BOB in 10 min
Times-30-60-60-90



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1771.71	98.89	Initial Hydro-static
3	40.98	100.18	Open To Flow (1)
33	195.35	113.32	Shut-In (1)
92	1060.74	110.18	End Shut-In (1)
93	198.65	110.18	Open To Flow (2)
153	397.22	113.57	Shut-In (2)
242	1034.19	111.83	End Shut-In (2)
244	1701.11	111.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
775.00	Wtr Rw .18 @ 80 = 55000ppm	9.20
35.00	CO	0.49

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern Energy

Mid-American #1

Box 150
Bogue 67625

25-6-21-Graham-Ks

Job Ticket: 17256

DST#: 5

ATTN: Mike Davignon

Test Start: 2003.06.28 @ 15:31:37

Tool Information

Drill Pipe:	Length: 3423.00 ft	Diameter: 3.80 inches	Volume: 48.02 bbl	Tool Weight:	1600.00 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume:	48.92 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	79.00 ft			String Weight: Initial	41000.00 lb
Depth to Top Packer:	3548.00 ft			Final	43000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	22.00 ft				
Tool Length:	43.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

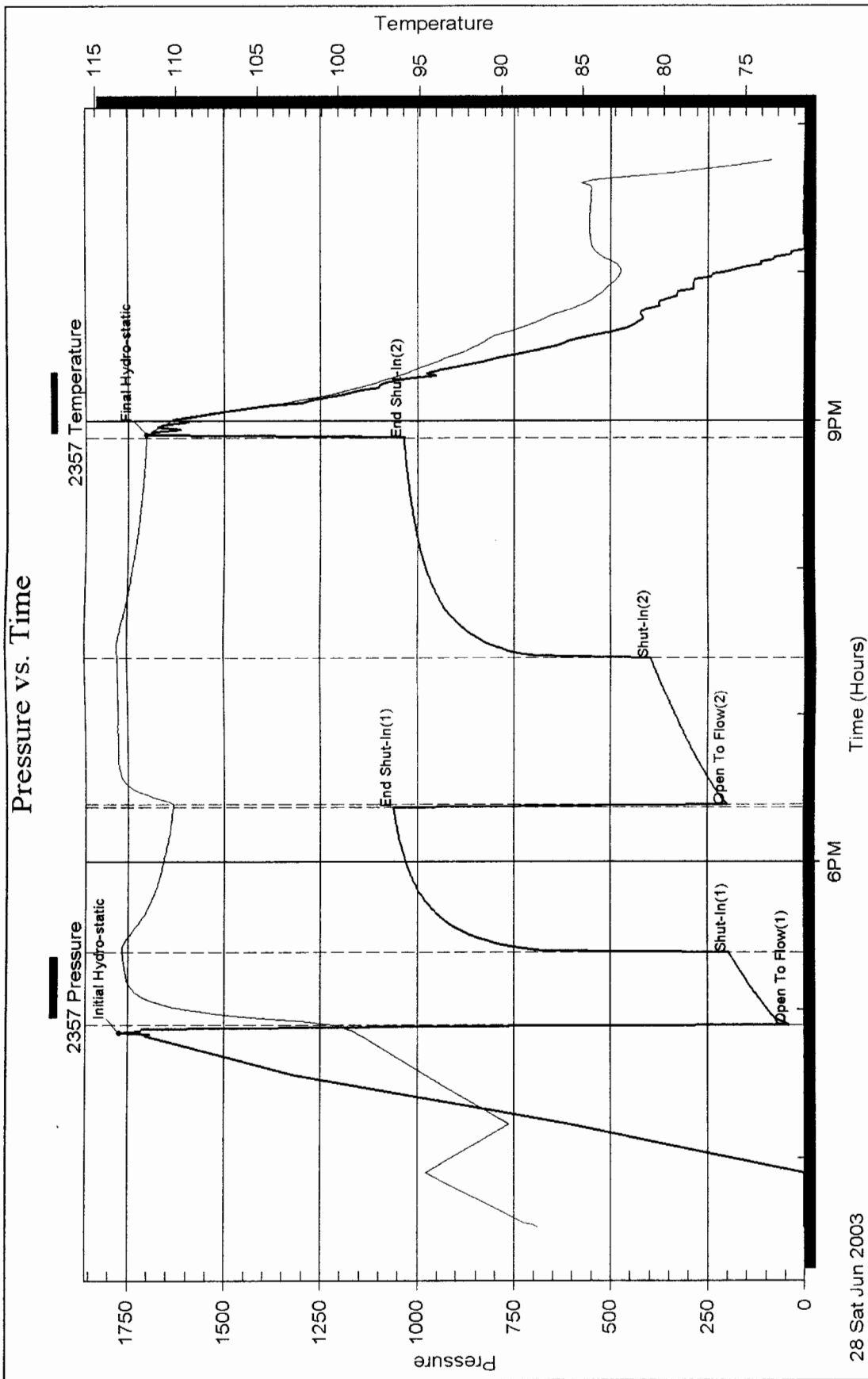
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3528.00	
S.I. Tool	5.00			3533.00	
HMV	5.00			3538.00	
Packer	5.00			3543.00	21.00 Bottom Of Top Packer
Packer	5.00			3548.00	
Stubb	1.00			3549.00	
Recorder	0.00	2357	Inside	3549.00	
Perforations	18.00			3567.00	
Recorder	0.00	13254	Outside	3567.00	
Bullnose	3.00			3570.00	22.00 Bottom Packers & Anchor
Total Tool Length:	43.00				

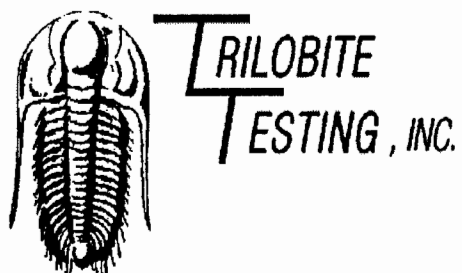
 TRILOBITE TESTING, INC	DRILL STEM TEST REPORT		FLUID SUMMARY
	Great Eastern Energy Box 150 Bogue 67625 ATTN: Mike Davignon	Mid-American #1 25-6-21-Graham-Ks Job Ticket: 17256 DST#: 5 Test Start: 2003.06.28 @ 15:31:37	

Mud and Cushion Information			
Mud Type: Gel Chem Mud Weight: 9.00 lb/gal Viscosity: 62.00 sec/qt Water Loss: 6.79 in ³ Resistivity: ohm.m Salinity: 2700.00 ppm Filter Cake: inches	Cushion Type: Cushion Length: ft Cushion Volume: bbl Gas Cushion Type: Gas Cushion Pressure: psig	Oil API: 36 deg API Water Salinity: ppm	

Recovery Information		
Recovery Table		
Length ft	Description	Volume bbl
775.00	Wtr Rw .18 @ 80 = 55000ppm	9.204
35.00	CO	0.491

Total Length: 810.00 ft	Total Volume: 9.695 bbl	
Num Fluid Samples: 0	Num Gas Bombs: 0	Serial #:
Laboratory Name:	Laboratory Location:	
Recovery Comments:		





DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy**

Box 150
Bogue 67625

ATTN: Mike Davignon

25-6-21-Graham-Ks

Mid-American #1

Start Date: 2003.06.29 @ 09:28:38

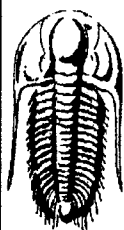
End Date: 2003.06.29 @ 15:41:38

Job Ticket #: 17257 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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


**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Eastern Energy

Mid-American #1

Box 150
Bogue 67625

25-6-21-Graham-Ks

Job Ticket: 17257

DST#: 6

ATTN: Mike Davignon

Test Start: 2003.06.29 @ 09:28:38

GENERAL INFORMATION:

Formation: Lower LKC

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:13:08

Time Test Ended: 15:41:38

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: 3623.00 ft (KB) To 3680.00 ft (KB) (TVD)

Total Depth: 3680.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2255.00 ft (KB)

2250.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 2357

Inside

Press@RunDepth: 31.74 psig @ 3630.00 ft (KB)

Start Date: 2003.06.29

End Date:

2003.06.29

Start Time: 09:28:43

End Time:

15:41:37

Capacity: 7000.00 psig

Last Calib.: 2003.06.29

Time On Btm: 2003.06.29 @ 11:10:38

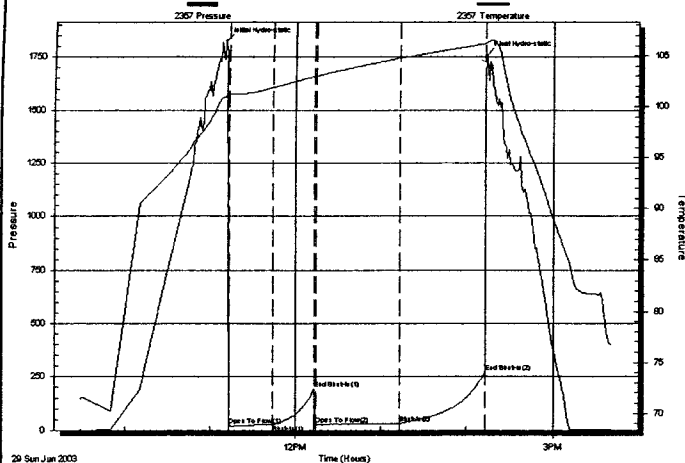
Time Off Btm: 2003.06.29 @ 14:13:38

TEST COMMENT: IF-Weak building to 3/4"

FF-Weak steady surface blow

Times-30-30-60-60

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1825.00	101.01	Initial Hydro-static
3	20.53	101.27	Open To Flow (1)
34	26.01	101.87	Shut-In(1)
63	193.60	103.00	End Shut-In(1)
64	26.80	103.04	Open To Flow (2)
123	31.74	104.79	Shut-In(2)
182	271.75	106.21	End Shut-In(2)
183	1758.49	106.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	C O	0.05
10.00	OCM 30%o 70% m	0.05

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern Energy

Mid-American #1

Box 150
Bogue 67625

25-6-21-Graham-Ks

Job Ticket: 17257

DST#: 6

ATTN: Mike Davignon

Test Start: 2003.06.29 @ 09:28:38

Tool Information

Drill Pipe:	Length: 3486.00 ft	Diameter: 3.80 inches	Volume: 48.90 bbl	Tool Weight: 2000.00 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 45000.00 lb
			Total Volume: 49.80 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	67.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3623.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3603.00	
S.I. Tool	5.00			3608.00	
HMV	5.00			3613.00	
Packer	5.00			3618.00	21.00 Bottom Of Top Packer
Packer	5.00			3623.00	
Stubb	1.00			3624.00	
Perforations	5.00			3629.00	
C.O. Sub	1.00			3630.00	
Recorder	0.00	2357	Inside	3630.00	
Blank Spacing	31.00			3661.00	
C.O. Sub	1.00			3662.00	
Recorder	0.00	13254	Outside	3662.00	
Perforations	15.00			3677.00	
Bullnose	3.00			3680.00	57.00 Bottom Packers & Anchor

Total Tool Length: 78.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy

Mid-American #1

Box 150
Bogue 67625

25-6-21-Graham-Ks

Job Ticket: 17257

DST#: 6

ATTN: Mike Davignon

Test Start: 2003.06.29 @ 09:28:38

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: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	C O	0.049
10.00	OCM 30%o 70%m	0.049

Total Length: 20.00 ft

Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

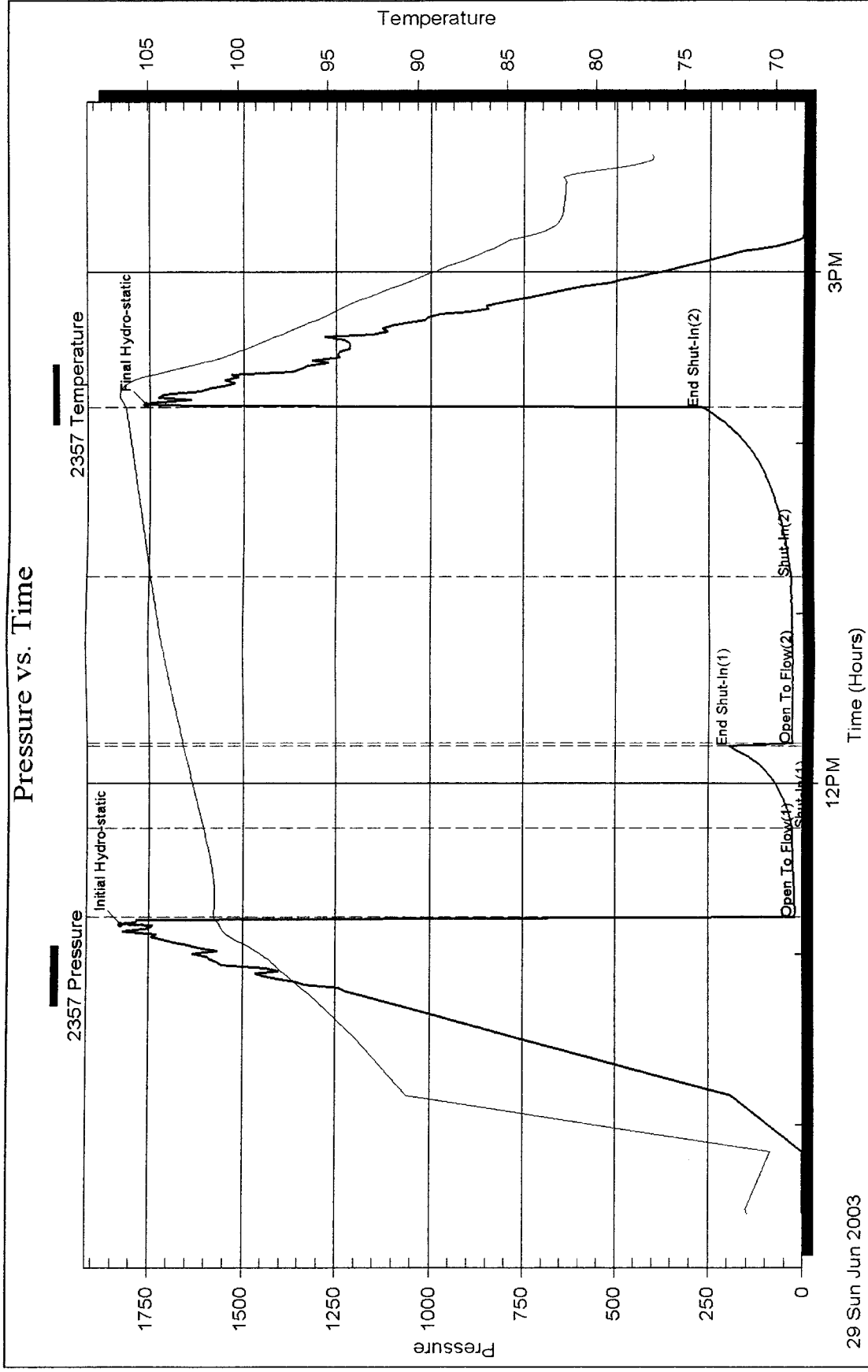
Serial #: 2357

Inside

Great Eastern Energy

25-6-21-Graham-Ks

DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 17257

Printed: 2003.07.02 @ 13:42:00 Page 5