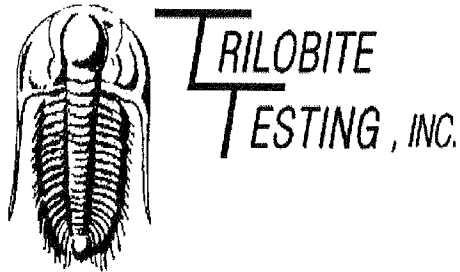


15-065-22936

5-7s-21w

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DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy & Dev.**

Box 150
Bogue KS 67625

ATTN: Mike Davignon

5-7s-21w Graham KS

Loren # 1

Start Date: 2003.10.27 @ 09:00:55

End Date: 2003.10.27 @ 14:19:55

Job Ticket #: 18842 DST #: 1

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

Great Eastern Energy & Dev.

Loren # 1

5-7s-21w Graham KS

DST # 1

Tor.-L.Kc.-A

2003.10.27



Great Eastern Energy & Dev.

Box 150
Bogue KS 67625

ATTN: Mike Davignon

Loren # 1

5-7s-21w Graham KS

Job Ticket: 18842

DST#: 1

Test Start: 2003.10.27 @ 09:00:55

Formation: Tor.-L.Kc.-A

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:54:25

Time Test Ended: 14:19:55

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: 3390.00 ft (KB) To 3450.00 ft (KB) (TVD)

Total Depth: 3450.00 ft (KB) (TVD)

Hole Diameter: 7.88 inchesHole Condition:

Reference Elevations: 2184.00 ft (KB)

2179.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6741

Inside

Press@RunDepth: 26.54 psig @ 3395.00 ft (KB)

Start Date: 2003.10.27

End Date:

2003.10.27

Start Time: 09:00:56

End Time:

14:19:55

Capacity: 7000.00 psig

Last Calib.: 2003.10.27

Time On Btm: 2003.10.27 @ 10:53:55

Time Off Btm: 2003.10.27 @ 12:56:25

TEST COMMENT: IF-Wek Surface blow

ISL-Dead

FF-Very Weak Surface blow

FSI-Dead

Tool Slid 12' to bottom.



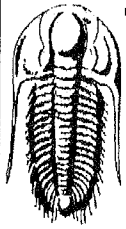
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1636.12	96.51	Initial Hydro-static
1	12.70	96.30	Open To Flow (1)
30	19.95	96.26	Shut-In(1)
61	838.71	96.89	End Shut-In(1)
61	21.28	96.75	Open To Flow (2)
91	26.54	97.23	Shut-In(2)
121	762.14	98.15	End Shut-In(2)
123	1613.23	99.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drilling Mud	0.05

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern Energy & Dev.

Loren # 1

Box 150
Bogue KS 67625

5-7s-21w Graham KS

Job Ticket: 18842

DST#: 1

ATTN: Mike Davignon

Test Start: 2003.10.27 @ 09:00:55

Tool Information

Drill Pipe:	Length:	3273.00 ft	Diameter:	3.80 inches	Volume:	45.91 bbl	Tool Weight:	3500.00 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:	124.00 ft	Diameter:	2.25 inches	Volume:	0.61 bbl	Weight to Pull Loose:	45000.00 lb
					Total Volume:	46.52 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	26.00 ft						String Weight: Initial	36000.00 lb
Depth to Top Packer:	3390.00 ft						Final	36000.00 lb
Depth to Bottom Packer:	ft							
Interval between Packers:	60.00 ft							
Tool Length:	79.00 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			3376.00	
Hydraulic tool	5.00			3381.00	
Packer	4.00			3385.00	19.00 Bottom Of Top Packer
Packer	5.00		Fluid	3390.00	
Stubb	1.00			3391.00	
Perforations	3.00			3394.00	
Change Over Sub	1.00			3395.00	
Recorder	0.00	6741	Inside	3395.00	
Blank Spacing	31.00			3426.00	
Change Over Sub	1.00			3427.00	
Recorder	0.00	11084	Outside	3427.00	
Perforations	20.00			3447.00	
Bullnose	3.00			3450.00	60.00 Bottom Packers & Anchor

Total Tool Length: 79.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy & Dev.

Loren # 1

Box 150
Bogue KS 67625

5-7s-21w Graham KS

Job Ticket: 18842

DST#: 1

ATTN: Mike Davignon

Test Start: 2003.10.27 @ 09:00:55

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: 62.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drilling Mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

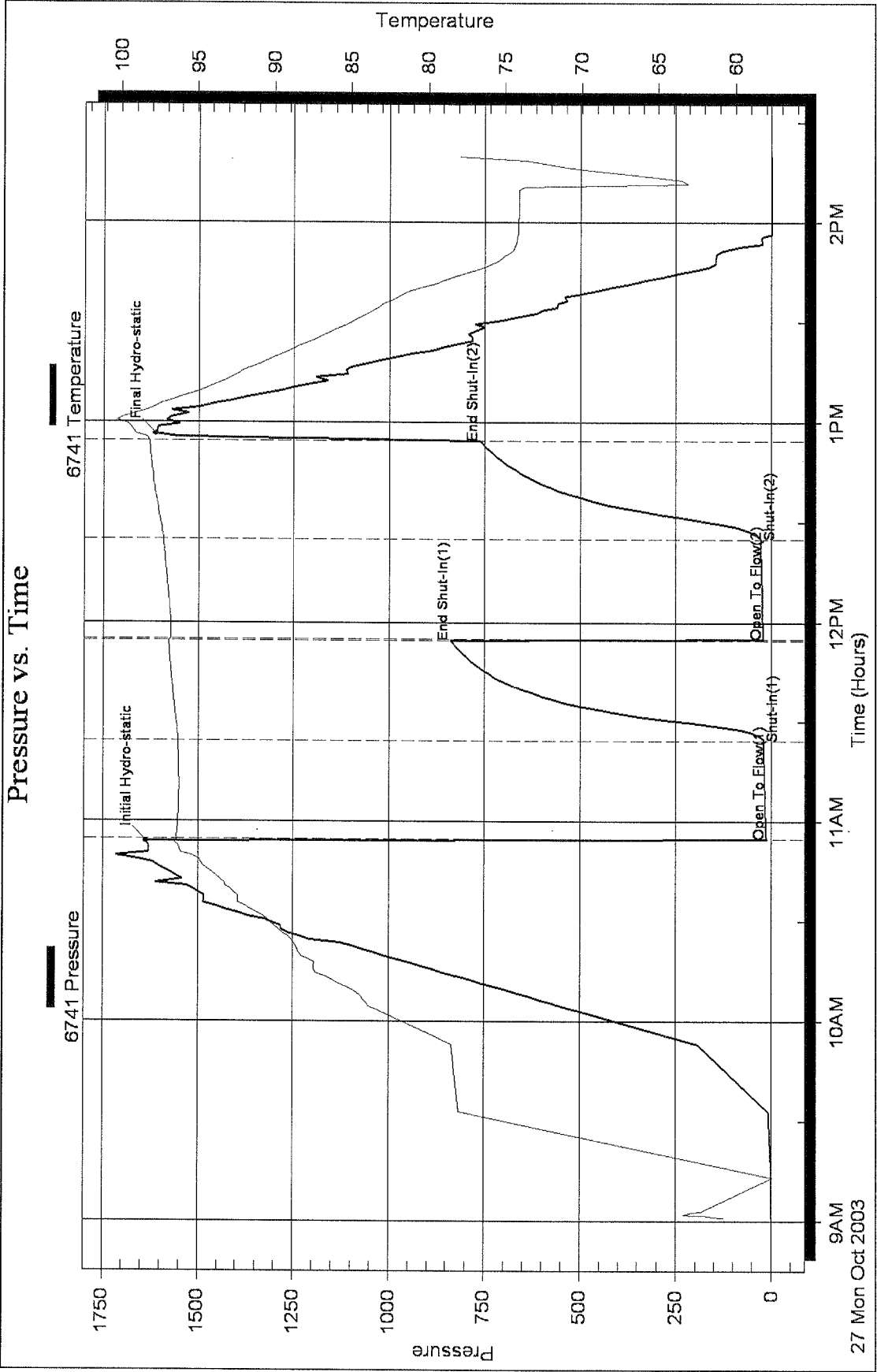
Serial #:

Laboratory Name:

Laboratory Location:

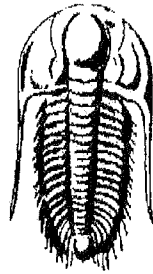
Recovery Comments:

Pressure vs. Time



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TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy & Dev.**

Box 150
Bogue KS 67625

ATTN: Mike Davignon

5-7s-21w Graham KS

Loren # 1

Start Date: 2003.10.27 @ 20:03:18

End Date: 2003.10.28 @ 01:23:18

Job Ticket #: 18843 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Great Eastern Energy & Dev.

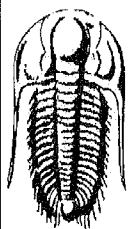
Loren # 1

5-7s-21w Graham KS

DST # 2

L.Kc.-C

2003.10.27



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Great Eastern Energy & Dev.

Loren # 1

Box 150
Bogue KS 67625

5-7s-21w Graham KS

Job Ticket: 18843

DST#: 2

ATTN: Mike Davignon

Test Start: 2003.10.27 @ 20:03:18

GENERAL INFORMATION:

Formation: **L.Kc.-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:41:48

Time Test Ended: 01:23:18

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: **3450.00 ft (KB) To 3480.00 ft (KB) (TVD)**

Reference Elevations: 2184.00 ft (KB)

Total Depth: 3480.00 ft (KB) (TVD)

2179.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6741

Inside

Press@RunDepth: 264.47 psig @ 3452.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2003.10.27

End Date:

2003.10.28

Last Calib.: 2003.10.28

Start Time: 20:03:19

End Time:

01:23:18

Time On Btm: 2003.10.27 @ 21:40:48

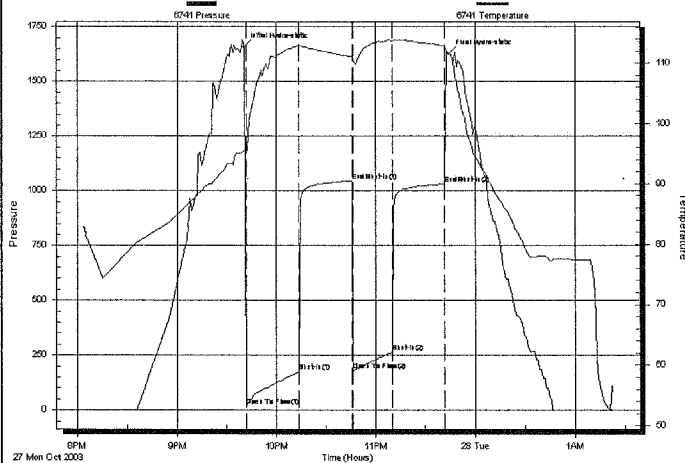
Time Off Btm: 2003.10.27 @ 23:44:18

TEST COMMENT: IF-Strong B.O.B. 11-min.
FF-Strong B.O.B. 17-min.

ISI-Dead
FSI-Dead

Tool slid 6' to bottom

Pressure vs. Time



PRESSURE SUMMARY

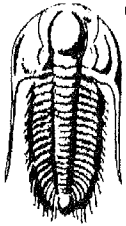
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1658.50	95.52	Initial Hydro-static
1	17.98	95.14	Open To Flow (1)
33	175.65	112.90	Shut-In (1)
65	1045.47	111.03	End Shut-In (1)
66	180.10	110.64	Open To Flow (2)
89	264.47	113.76	Shut-In (2)
121	1031.87	112.83	End Shut-In (2)
124	1627.25	111.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
540.00	Salt Water	6.45

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 & Dev.

Loren # 1

Box 150
Bogue KS 67625

5-7s-21w Graham KS

Job Ticket: 18843 DST#: 2

ATTN: Mike Davignon

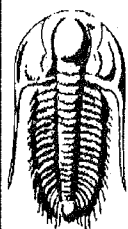
Test Start: 2003.10.27 @ 20:03:18

Tool Information

Drill Pipe:	Length: 3336.00 ft	Diameter: 3.80 inches	Volume: 46.80 bbl	Tool Weight:	2500.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume:	47.41 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	36000.00 lb
Depth to Top Packer:	3450.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	49.00 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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Shut In Tool	5.00			3436.00	
Hydraulic tool	5.00			3441.00	
Packer	4.00			3445.00	19.00 Bottom Of Top Packer
Packer	5.00		Fluid	3450.00	
Stubb	1.00			3451.00	
Perforations	1.00			3452.00	
Recorder	0.00	6741	Inside	3452.00	
Perforations	25.00			3477.00	
Recorder	0.00	11084	Outside	3477.00	
Bullnose	3.00			3480.00	30.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy & Dev.

Loren # 1

Box 150
Bogue KS 67625

5-7s-21w Graham KS

Job Ticket: 18843

DST#: 2

ATTN: Mike Davignon

Test Start: 2003.10.27 @ 20:03:18

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:

70000 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
540.00	Salt Water	6.445

Total Length: 540.00 ft

Total Volume: 6.445 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

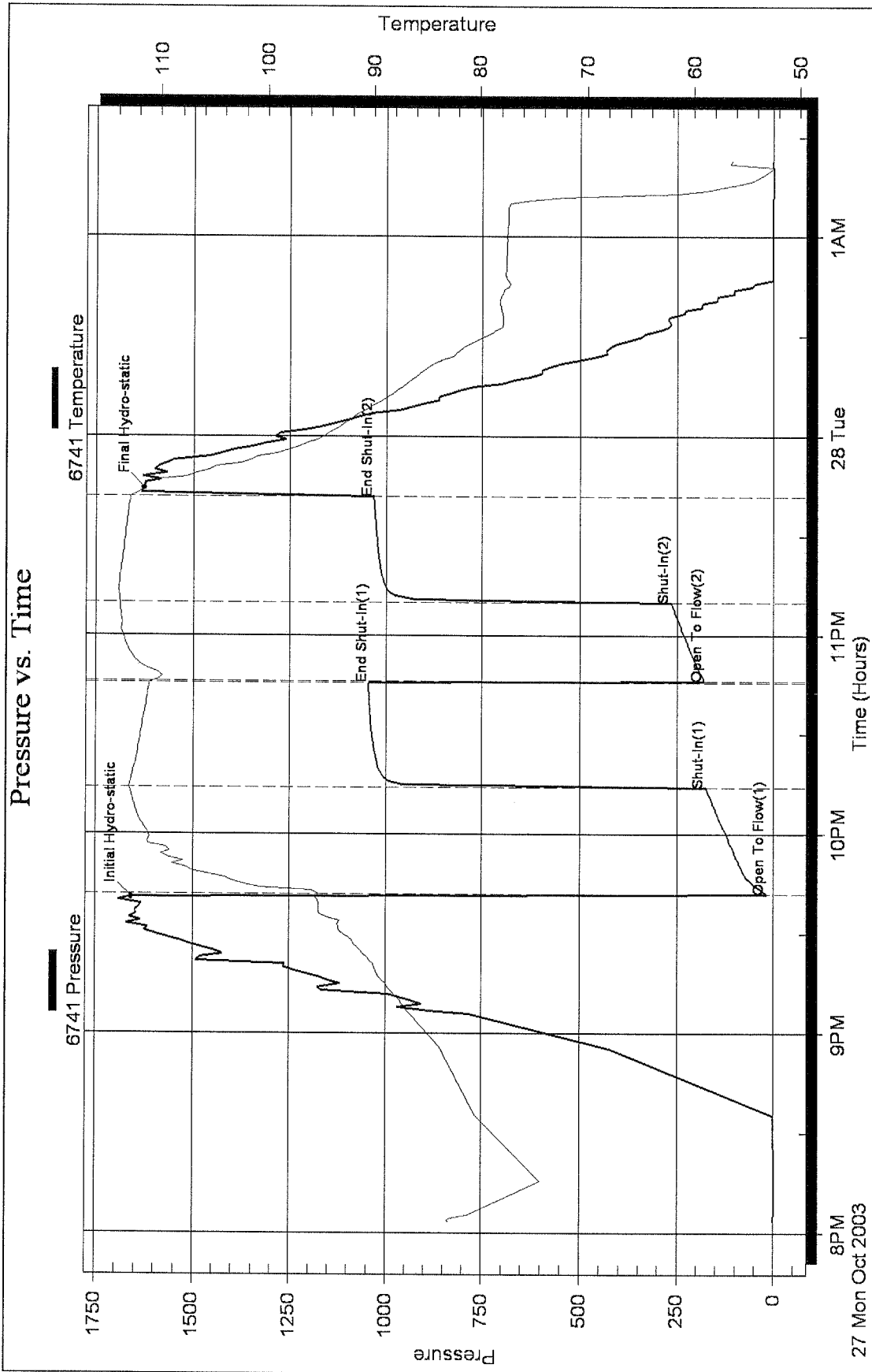
Serial #:

Laboratory Name:

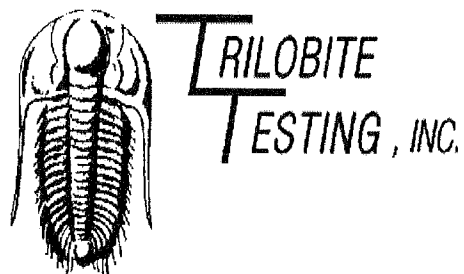
Laboratory Location:

Recovery Comments:

Pressure vs. Time



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DRILL STEM TEST REPORT

Prepared For: **Great Eastern Energy & Dev.**

Box 150
Bogue KS 67625

ATTN: Mike Davignon

5-7s-21w Graham KS

Loren # 1

Start Date: 2003.10.28 @ 22:48:36

End Date: 2003.10.29 @ 04:02:36

Job Ticket #: 18844 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 & Dev.

Loren # 1

Box 150
Bogue KS 67625

5-7s-21w Graham KS

Job Ticket: 18844

DST#: 3

ATTN: Mike Davignon

Test Start: 2003.10.28 @ 22:48:36

GENERAL INFORMATION:

Formation: **L.Kc.-**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:21:06

Time Test Ended: 04:02:36

Test Type: Conventional Straddle

Tester: John Schmidt

Unit No: 18

Interval: 3510.00 ft (KB) To 3530.00 ft (KB) (TVD)

Reference Elevations: 2184.00 ft (KB)

Total Depth: 3450.00 ft (KB) (TVD)

2179.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6741

Inside

Press@RunDepth: 19.74 psig @ 3511.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2003.10.28

End Date: 2003.10.29

Last Calib.: 2003.10.29

Start Time: 22:48:37

End Time: 04:02:36

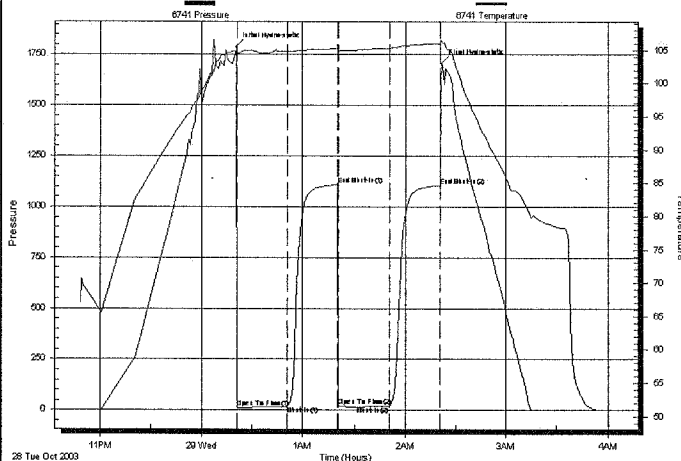
Time On Btm: 2003.10.29 @ 00:20:36

Time Off Btm: 2003.10.29 @ 02:21:36

TEST COMMENT: IF-Weak Surface blow
FF-Dead

ISI-Dead
FSI-Dead

Pressure vs. Time



PRESSURE SUMMARY

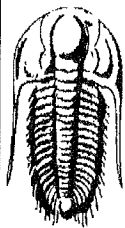
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1787.47	104.80	Initial Hydro-static
1	11.46	104.60	Open To Flow (1)
31	17.90	104.79	Shut-In(1)
60	1108.32	105.24	End Shut-In(1)
60	19.60	105.09	Open To Flow (2)
90	19.74	105.33	Shut-In(2)
120	1104.87	106.03	End Shut-In(2)
121	1708.93	106.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drilling Mud	0.02

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Eastern Energy & Dev.

Loren # 1

Box 150
Bogue KS 67625

5-7s-21w Graham KS

Job Ticket: 18844

DST#: 3

ATTN: Mike Davignon

Test Start: 2003.10.28 @ 22:48:36

Tool Information

Drill Pipe:	Length: 3369.00 ft	Diameter: 3.80 inches	Volume: 47.26 bbl	Tool Weight:	3500.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	45000.00 lb
		Total Volume:	47.87 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3510.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	3530.00 ft				
Interval between Packers:	20.00 ft				
Tool Length:	241.00 ft				
Number of Packers:	3	Diameter:	6.75 inches		

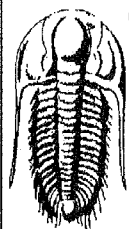
Tool Comments:

Tool Description

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

Shut In Tool	5.00			3490.00	
Change Over Sub	1.00			3491.00	
Shut In Tool	5.00			3496.00	
Hydraulic tool	5.00			3501.00	
Packer	4.00			3505.00	25.00 Bottom Of Top Packer
Packer	5.00		Fluid	3510.00	
Stubb	1.00			3511.00	
Recorder	0.00	6741	Inside	3511.00	
Perforations	18.00			3529.00	
Recorder	0.00	24174	Outside	3529.00	
Blank Off Sub	1.00			3530.00	20.00 Tool Interval
Packer	0.00			3530.00	
Stubb	1.00			3531.00	
Perforations	2.00	11084	Outside	3533.00	
Change Over Sub	1.00			3534.00	
Blank Spacing	187.00			3721.00	
Change Over Sub	1.00			3722.00	
Perforations	1.00			3723.00	
Recorder	0.00	13308	Below	3723.00	
Bullnose	3.00			3726.00	196.00 Bottom Packers & Anchor

Total Tool Length: 241.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Eastern Energy & Dev.

Loren # 1

Box 150
Bogue KS 67625

5-7s-21w Graham KS

Job Ticket: 18844

DST#: 3

ATTN: Mike Davignon

Test Start: 2003.10.28 @ 22:48:36

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: 62.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drilling Mud	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

