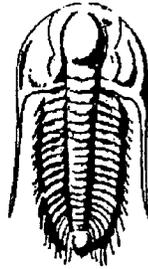


15-051-25293

27-12s-17w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Staab Energy & Leasing**

2514 Haney Drive
Hays, Ks. 67601-2220

ATTN: Norman G. Staab

27--12s--17w

Ed East # 1

Start Date: 2004.05.07 @ 21:58:45

End Date: 2004.05.08 @ 05:14:15

Job Ticket #: 19871 DST #: 1

API# 15-051-25293-00-00

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Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Staab Energy & Leasing

Ed East # 1

27--12s--17w

DST # 1

L.K.C.-E,F&G

2004.05.07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Staab Energy & Leasing

Ed East # 1

2514 Haney Drive
Hays, Ks. 67601-2220

27-12s-17w

Job Ticket: 19871

DST#: 1

ATTN: Norman G. Staab

Test Start: 2004.05.07 @ 21:58:45

GENERAL INFORMATION:

Formation: **L.Kc.-E&G**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 00:09:15

Time Test Ended: 05:14:15

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **18**

Interval: **3445.00 ft (KB) To 3486.00 ft (KB) (TVD)**

Reference Elevations: **2133.00 ft (KB)**

Total Depth: **3486.00 ft (KB) (TVD)**

2127.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **6.00 ft**

Serial #: 6741

Inside

Press@RunDepth: **31.70 psig @ 3448.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2004.05.07**

End Date: **2004.05.08**

Last Calib.: **2004.05.08**

Start Time: **21:58:55**

End Time: **05:14:15**

Time On Btm: **2004.05.08 @ 00:08:15**

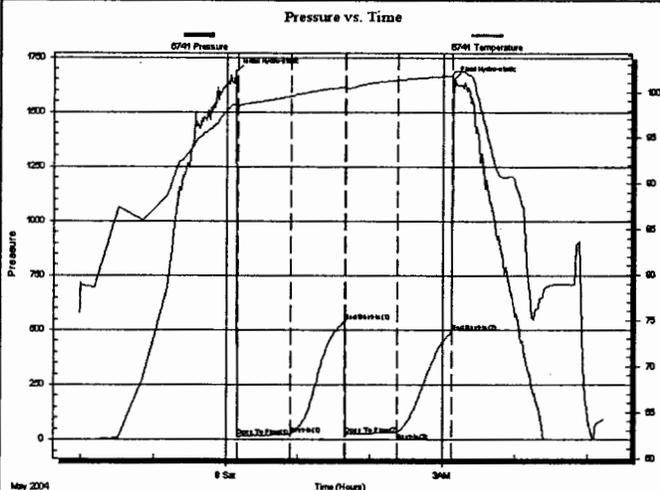
Time Off Btm: **2004.05.08 @ 03:08:45**

TEST COMMENT: **F-Fair 5" in**

ISI-Dead

FF-Fair 7" in

FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1683.94	98.73	Initial Hydro-static
1	12.13	97.89	Open To Flow (1)
46	22.62	99.52	Shut-in(1)
92	539.57	100.51	End Shut-in(1)
92	22.46	100.39	Open To Flow (2)
135	31.70	101.27	Shut-in(2)
180	493.17	101.76	End Shut-in(2)
181	1646.29	101.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	GMCO10%G-30%M60%Oil	0.70

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Staab Energy & Leasing

Ed East # 1

2514 Haney Drive
Hays, Ks. 67601-2220

27-12s-17w

Job Ticket: 19871

DST#: 1

ATTN: Norman G. Staab

Test Start: 2004.05.07 @ 21:58:45

Tool Information

Drill Pipe:	Length: 3444.00 ft	Diameter: 3.80 inches	Volume: 48.31 bbl	Tool Weight: 3000.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
		Total Volume: 48.31 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3445.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3426.00	
Shut In Tool	5.00			3431.00	
Hydraulic tool	5.00			3436.00	
Packer	4.00			3440.00	20.00 Bottom Of Top Packer
Packer	5.00			3445.00	
Stubb	1.00			3446.00	
Perforations	1.00			3447.00	
Change Over Sub	1.00			3448.00	
Recorder	0.00	6741	inside	3448.00	
Blank Spacing	30.00			3478.00	
Change Over Sub	1.00			3479.00	
Recorder	0.00			3479.00	
Perforations	4.00			3483.00	
Bullnose	3.00			3486.00	41.00 Bottom Packers & Anchor
Total Tool Length:	61.00				

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Staab Energy & Leasing

Ed East # 1

2514 Haney Drive
Hays, Ks. 67601-2220

27-12s-17w

Job Ticket: 19871

DST#: 1

ATTN: Norman G. Staab

Test Start: 2004.05.07 @ 21:58:45

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:

bbl

Water Loss: 10.37 in³

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	GMCO10%G-30%M60%Oil	0.701

Total Length: 50.00 ft

Total Volume: 0.701 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

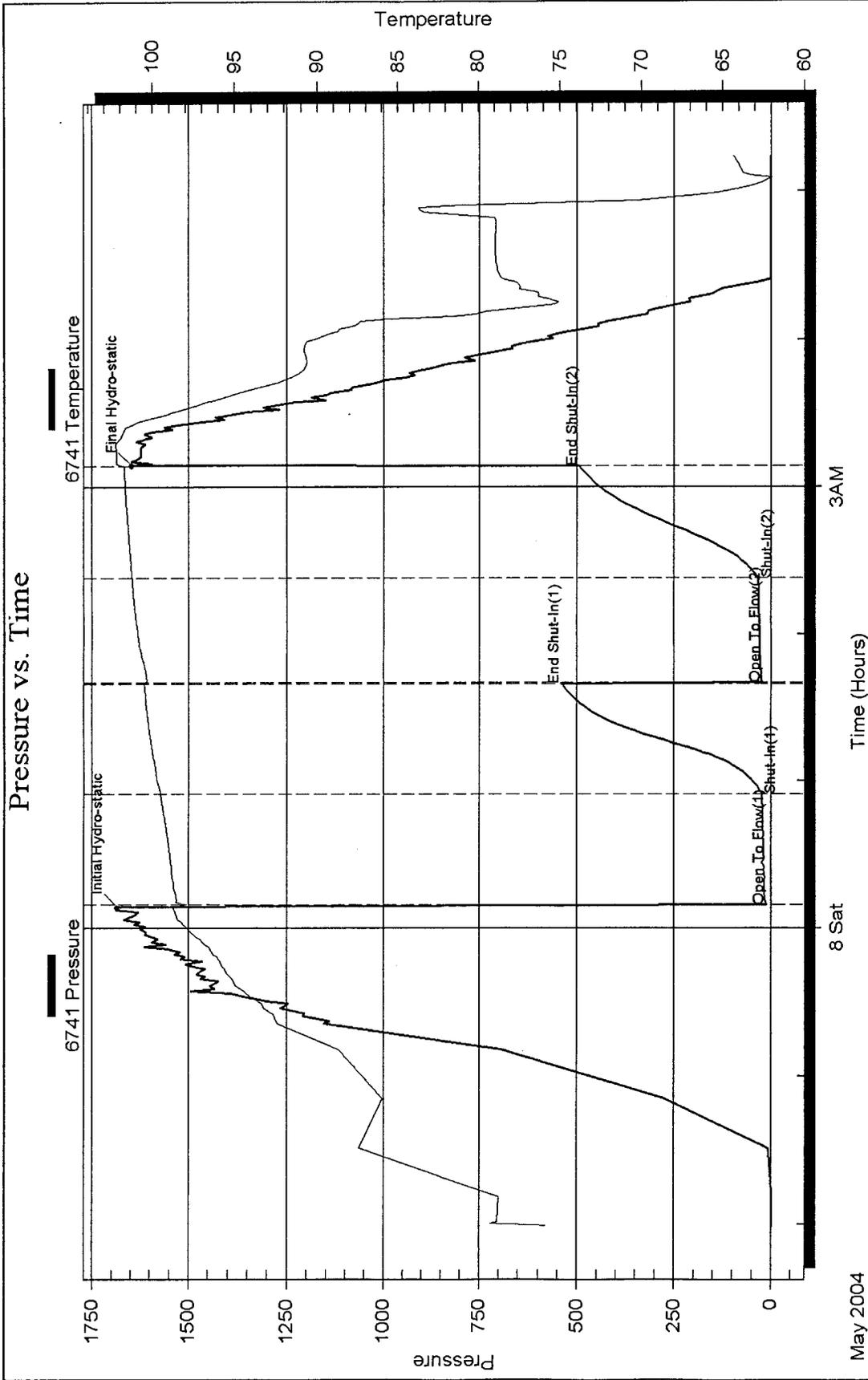
Serial #: 6741

Inside

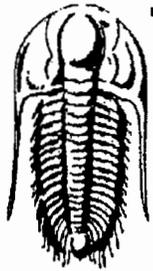
Staab Energy & Leasing

27--12s--17w

DST Test Number: 1



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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Staab Energy & Leasing**

2514 Haney Drive
Hays, Ks. 67601-2220

ATTN: Norman G. Staab

27--12s--17w

Ed East # 1

Start Date: 2004.05.08 @ 17:06:24

End Date: 2004.05.08 @ 22:04:54

Job Ticket #: 19872 DST #: 2

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

Staab Energy & Leasing

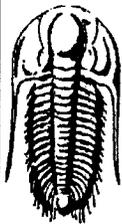
Ed East # 1

27--12s--17w

DST # 2

L.Kc-1-J-K

2004.05.08



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Staab Energy & Leasing

2514 Haney Drive
Hays, Ks. 67601-2220

ATTN: Norman G. Staab

Ed East # 1

27-12s-17w

Job Ticket: 19872

DST#: 2

Test Start: 2004.05.08 @ 17:06:24

GENERAL INFORMATION:

Formation: **L.Kc.-I-J-K**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: 19:01:24

Time Test Ended: 22:04:54

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **18**

Interval: **3555.00 ft (KB) To 3605.00 ft (KB) (TVD)**

Total Depth: **3605.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2133.00 ft (KB)**

2127.00 ft (CF)

KB to GR/CF: **6.00 ft**

Serial #: 6741 Inside

Press@RunDepth: **14.48 psig @ 3558.00 ft (KB)**

Start Date: **2004.05.08**

End Date: **2004.05.08**

Start Time: **17:06:34**

End Time: **22:04:54**

Capacity: **7000.00 psig**

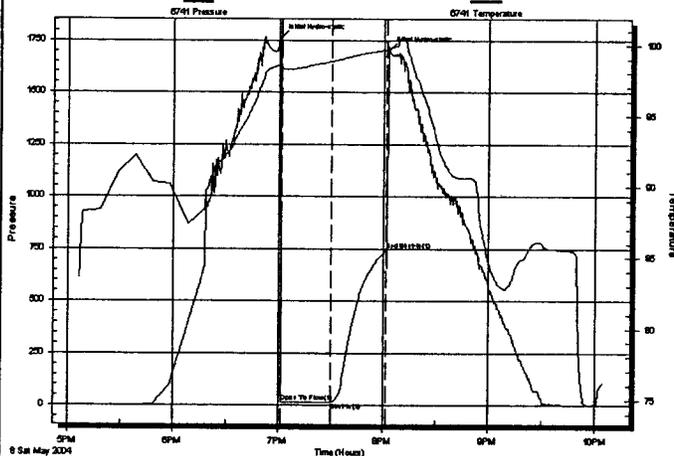
Last Calib.: **2004.05.08**

Time On Btm: **2004.05.08 @ 19:00:54**

Time Off Btm: **2004.05.08 @ 20:02:54**

TEST COMMENT: **If-Weak Dead in 10 min IS-Dead**

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1761.17	98.66	Initial Hydro-static
1	13.87	98.42	Open To Flow (1)
29	14.48	98.85	Shut-in(1)
61	744.16	99.66	End Shut-in(1)
62	1701.37	99.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drilling mud w ith oilspots	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Staab Energy & Leasing

Ed East # 1

2514 Haney Drive
Hays, Ks. 67601-2220

27-12s-17w

Job Ticket: 19872

DST#: 2

ATTN: Norman G. Staab

Test Start: 2004.05.08 @ 17:06:24

Tool Information

Drill Pipe:	Length: 3567.00 ft	Diameter: 3.80 inches	Volume: 50.04 bbl	Tool Weight:	3200.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	45000.00 lb
			<u>Total Volume: 50.04 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3555.00 ft			Final	38000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	50.00 ft				
Tool Length:	70.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3536.00	
Shut In Tool	5.00			3541.00	
Hydraulic tool	5.00			3546.00	
Packer	4.00			3550.00	20.00 Bottom Of Top Packer
Packer	5.00			3555.00	
Stubb	1.00			3556.00	
Perforations	1.00			3557.00	
Change Over Sub	1.00			3558.00	
Recorder	0.00	6741	Inside	3558.00	
Blank Spacing	31.00			3589.00	
Change Over Sub	1.00			3590.00	
Recorder	0.00	11084	Outside	3590.00	
Perforations	12.00			3602.00	
Bullnose	3.00			3605.00	50.00 Bottom Packers & Anchor
Total Tool Length:	70.00				

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Staab Energy & Leasing

Ed East # 1

2514 Haney Drive
Hays, Ks. 67601-2220

27-12s-17w

Job Ticket: 19872

DST#: 2

ATTN: Norman G. Staab

Test Start: 2004.05.08 @ 17:06:24

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: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.17 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 with oilspots	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6741

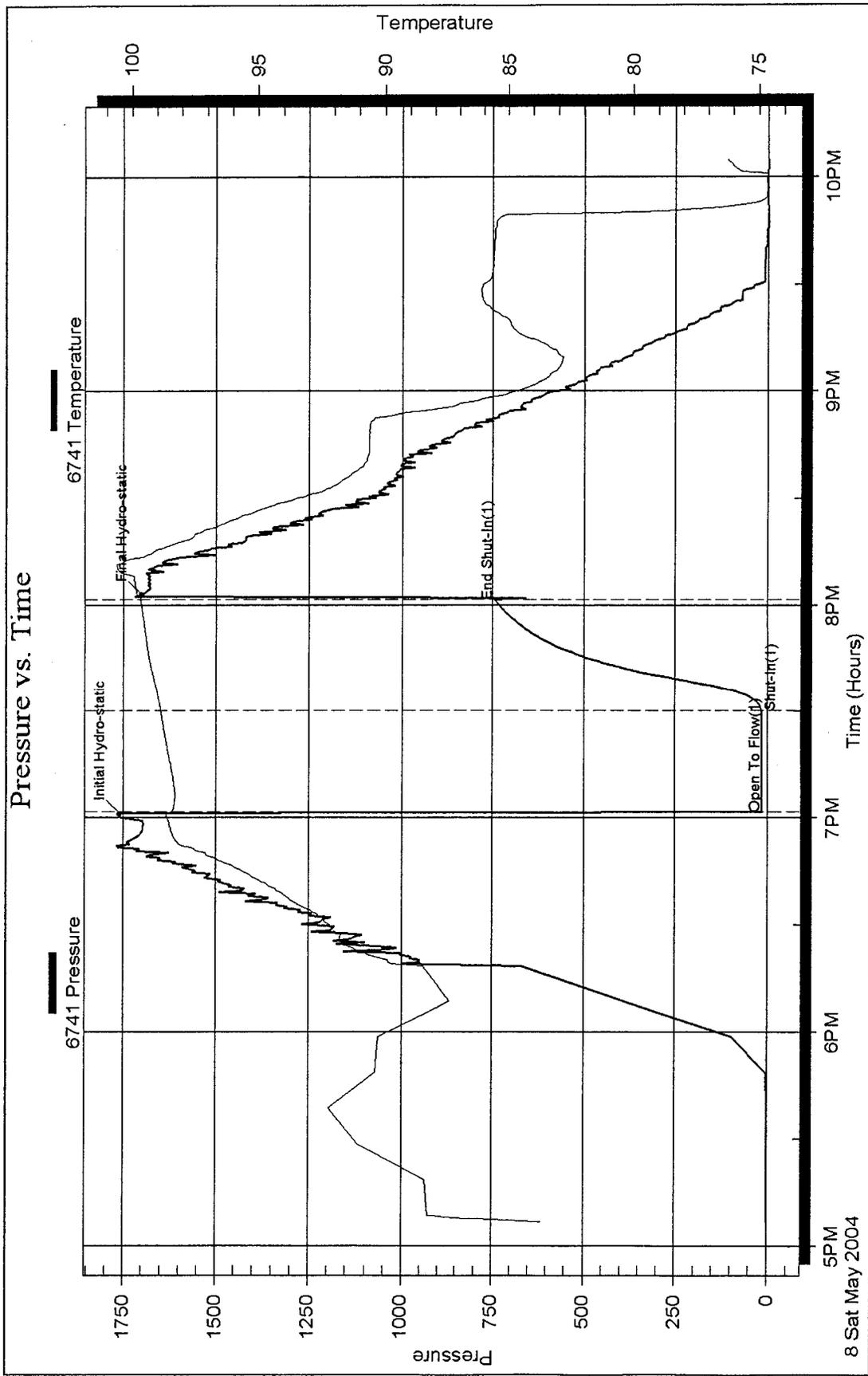
Inside

Staab Energy & Leasing

27--12s--17w

DST Test Number: 2

Pressure vs. Time

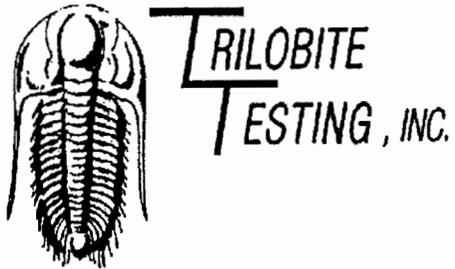


Trilobite Testing, Inc

Ref. No: 19872

Printed: 2004.05.17 @ 16:09:07 Page 5

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DRILL STEM TEST REPORT

Prepared For: **Staab Energy & Leasing**

2514 Haney Drive
Hays, Ks. 67601-2220

ATTN: Norman G. Staab

27--12s--17w

Ed East # 1

Start Date: 2004.05.09 @ 09:45:48

End Date: 2004.05.09 @ 15:33:48

Job Ticket #: 19873 DST #: 3

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Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Staab Energy & Leasing

Ed East # 1

27--12s--17w

DST # 3

Arbuckle

2004.05.09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Staab Energy & Leasing

Ed East # 1

2514 Haney Drive
Hays, Ks. 67601-2220

27-12s-17w

ATTN: Norman G. Staab

Job Ticket: 19873

DST#: 3

Test Start: 2004.05.09 @ 09:45:48

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:57:48

Time Test Ended: 15:33:48

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: 3619.00 ft (KB) To 3662.00 ft (KB) (TVD)

Reference Elevations: 2133.00 ft (KB)

Total Depth: 3662.00 ft (KB) (TVD)

2127.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 6741 Inside

Press@RunDepth: 14.71 psig @ 3622.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2004.05.09

End Date: 2004.05.09

Last Calib.: 2004.05.09

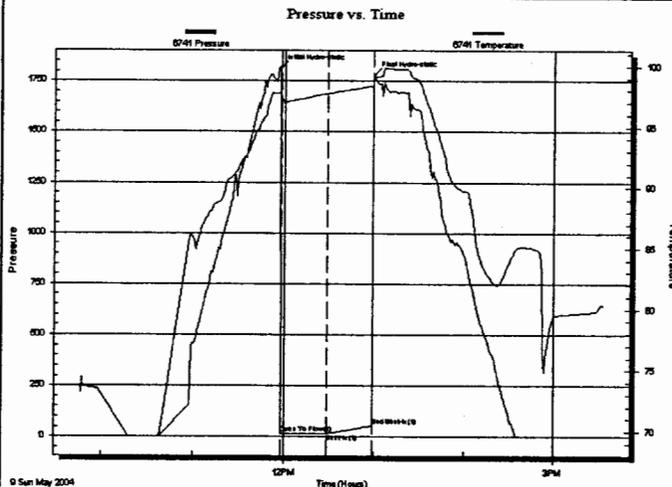
Start Time: 09:45:58

End Time: 15:33:48

Time On Btm: 2004.05.09 @ 11:57:18

Time Off Btm: 2004.05.09 @ 12:59:18

TEST COMMENT: F-Weak Dead in 10 min. IS-Dead



PRESSURE SUMMARY

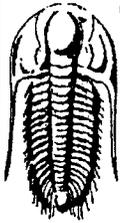
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1813.30	97.77	Initial Hydro-static
1	13.88	97.40	Open To Flow (1)
31	14.71	97.76	Shut-In (1)
61	54.17	98.38	End Shut-In (1)
62	1778.89	98.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drilling Mud with oil spots	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Staab Energy & Leasing

Ed East # 1

2514 Haney Drive
Hays, Ks. 67601-2220

27-12s-17w

Job Ticket: 19873

DST#: 3

ATTN: Norman G. Staab

Test Start: 2004.05.09 @ 09:45:48

Tool Information

Drill Pipe:	Length: 3629.00 ft	Diameter: 3.80 inches	Volume: 50.91 bbl	Tool Weight: 3000.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 50.91 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3619.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3600.00	
Shut In Tool	5.00			3605.00	
Hydraulic tool	5.00			3610.00	
Packer	4.00			3614.00	20.00 Bottom Of Top Packer
Packer	5.00			3619.00	
Stubb	1.00			3620.00	
Perforations	1.00			3621.00	
Change Over Sub	1.00			3622.00	
Recorder	0.00	6741	Inside	3622.00	
Blank Spacing	31.00			3653.00	
Change Over Sub	1.00			3654.00	
Recorder	0.00	11884	Outside	3654.00	
Perforations	5.00			3659.00	
Bullnose	3.00			3662.00	43.00 Bottom Packers & Anchor

Total Tool Length: 63.00

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Staab Energy & Leasing

Ed East # 1

2514 Haney Drive
Hays, Ks. 67601-2220

27-12s-17w

Job Ticket: 19873

DST#: 3

ATTN: Norman G. Staab

Test Start: 2004.05.09 @ 09:45:48

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:

bbl

Water Loss: 10.36 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 with oil spots	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

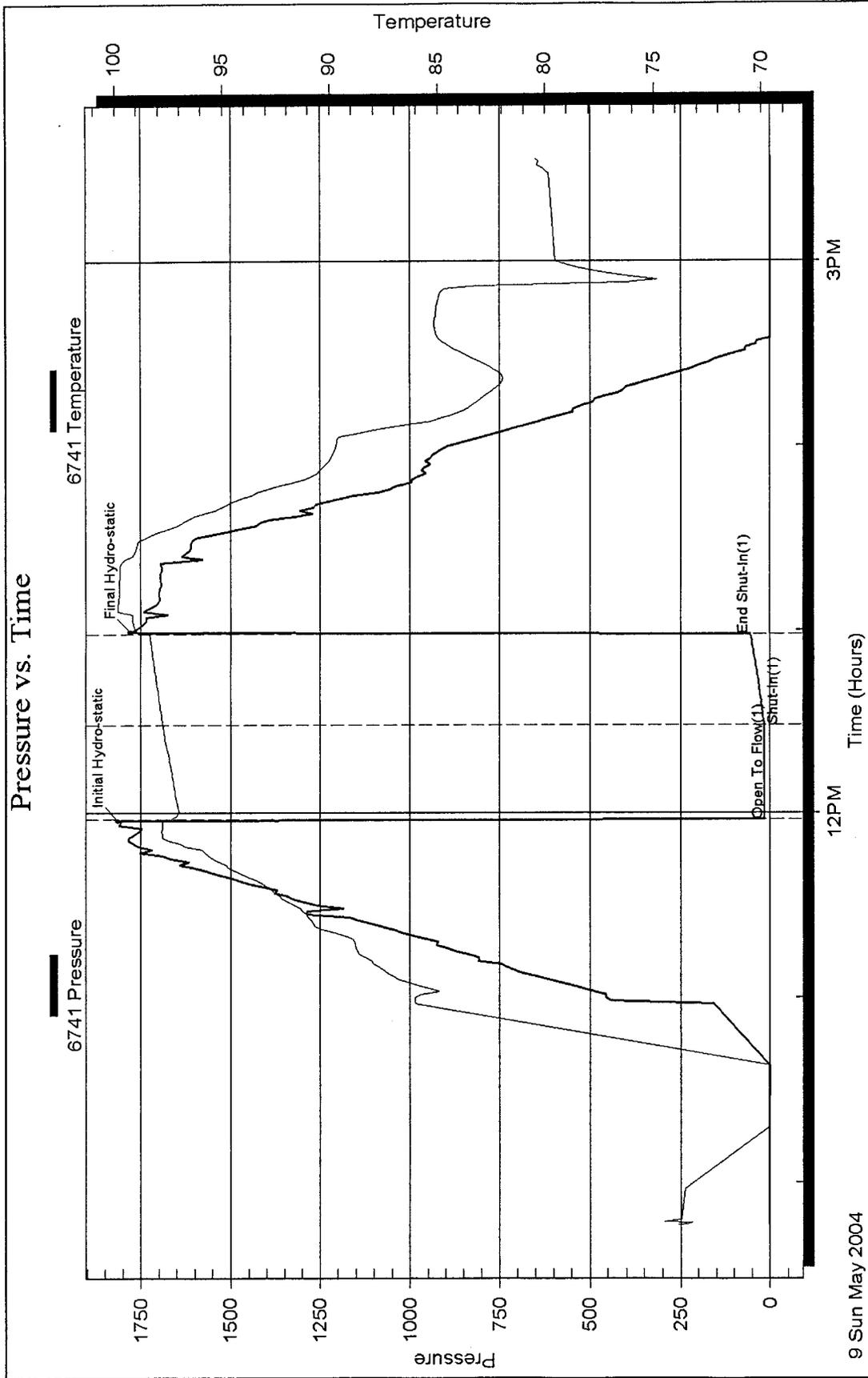
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Inside

Saab Energy & Leasing

27--12s--17w

DST Test Number: 3

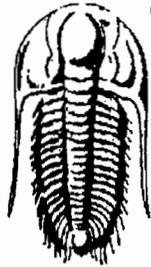


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Ref. No: 19873

Printed: 2004.05.17 @ 16:12:27 Page 5



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Staab Energy & Leasing**

2514 Haney Drive
Hays, Ks. 67601-2220

ATTN: Norman G. Staab

27--12s--17w

Ed East # 1

Start Date: 2004.05.09 @ 21:58:45

End Date: 2004.05.09 @ 00:00:00

Job Ticket #: 19874 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Staab Energy & Leasing

Ed East # 1

27--12s--17w

DST # 4

Arbuckle

2004.05.09



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Staab Energy & Leasing

Ed East # 1

2514 Haney Drive
Hays, Ks. 67601-2220

27-12s-17w

Job Ticket: 19874

DST#: 4

ATTN: Norman G. Staab

Test Start: 2004.05.09 @ 21:58:45

Tool Information

Drill Pipe:	Length: 3661.00 ft	Diameter: 3.80 inches	Volume: 51.35 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: lb
		Total Volume: 51.35 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial lb
Depth to Top Packer:	3657.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:
Packer Failure

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3638.00	
Shut In Tool	5.00			3643.00	
Hydraulic tool	5.00			3648.00	
Packer	4.00			3652.00	20.00 Bottom Of Top Packer
Packer	5.00			3657.00	
Stubb	1.00			3658.00	
Perforations	1.00			3659.00	
Recorder	0.00	6741	Inside	3659.00	
Perforations	18.00			3677.00	
Recorder	0.00	13308	Outside	3677.00	
Bullnose	3.00			3680.00	23.00 Bottom Packers & Anchor

Total Tool Length: 43.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Staab Energy & Leasing

Ed East # 1

2514 Haney Drive
Hays, Ks. 67601-2220

27-12s-17w

Job Ticket: 19874

DST#: 4

ATTN: Norman G. Staab

Test Start: 2004.05.09 @ 21:58:45

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:

bbl

Water Loss: 10.37 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

Total Length:

ft

Total Volume:

bbl

Num Fluid Samples:

Num Gas Bombs:

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6741

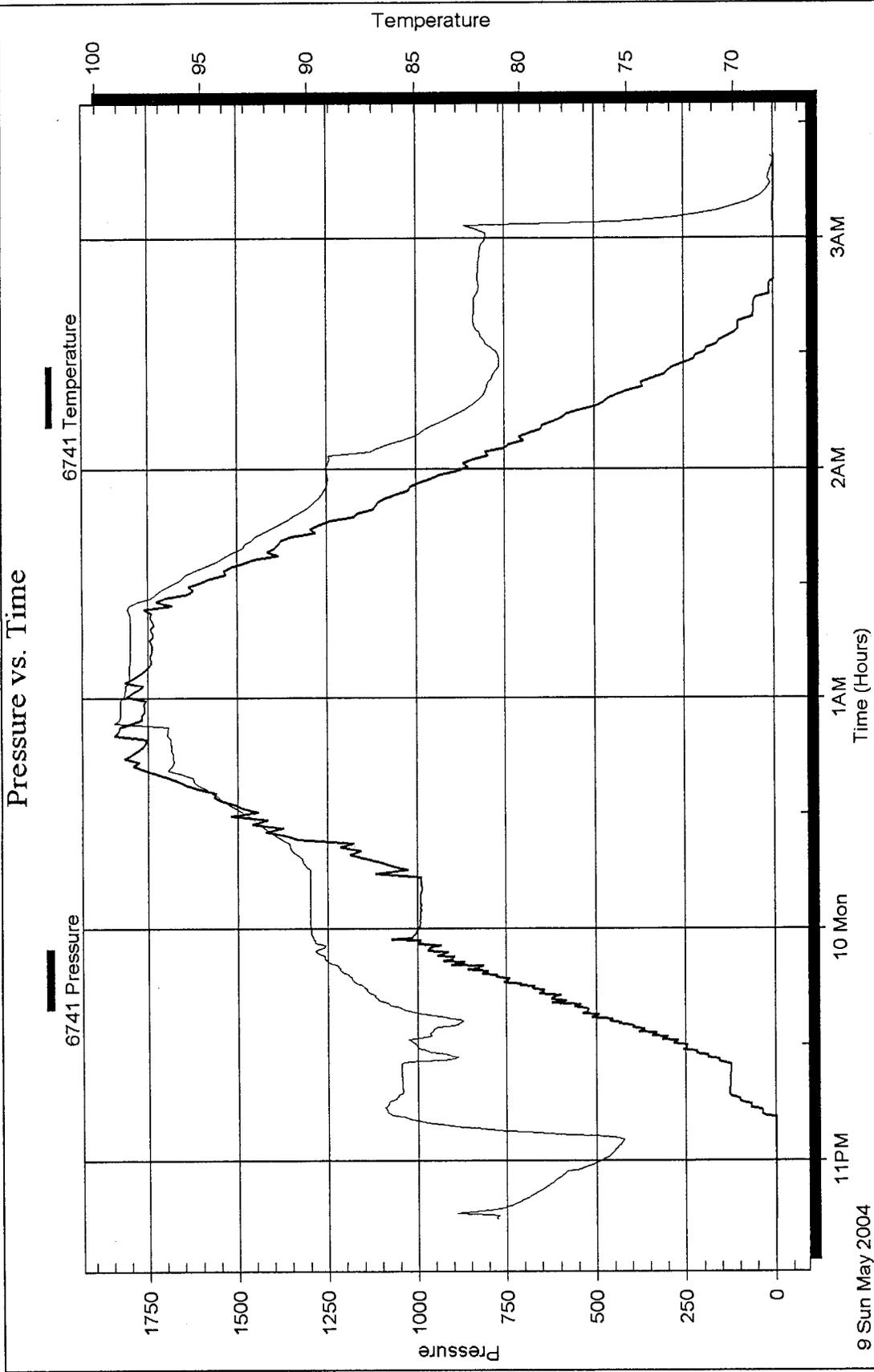
Inside

Staab Energy & Leasing

27--12s--17w

DST Test Number: 4

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Staab Energy & Leasing**

2514 Haney Drive
Hays, Ks. 67601-2220

ATTN: Norman G. Staab

27--12s--17w

Ed East # 1

Start Date: 2004.05.10 @ 03:28:56

End Date: 2004.05.10 @ 10:08:56

Job Ticket #: 19875 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Staab Energy & Leasing

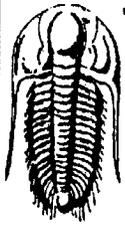
Ed East # 1

27--12s--17w

DST # 5

Arbuckle

2004.05.10



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Staab Energy & Leasing

Ed East # 1

2514 Haney Drive
Hays, Ks. 67601-2220

27-12s-17w

ATTN: Norman G. Staab

Job Ticket: 19875

DST#: 5

Test Start: 2004.05.10 @ 03:28:56

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 05:08:26

Time Test Ended: 10:08:56

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **18**

Interval: **3618.00 ft (KB) To 3680.00 ft (KB) (TVD)**

Total Depth: **3680.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2133.00 ft (KB)**

2127.00 ft (CF)

KB to GR/CF: **6.00 ft**

Serial #: **6741** Inside

Press@RunDepth: **42.90 psig @ 3621.00 ft (KB)**

Start Date: **2004.05.10**

End Date: **2004.05.10**

Capacity: **7000.00 psig**

Last Calib.: **2004.05.10**

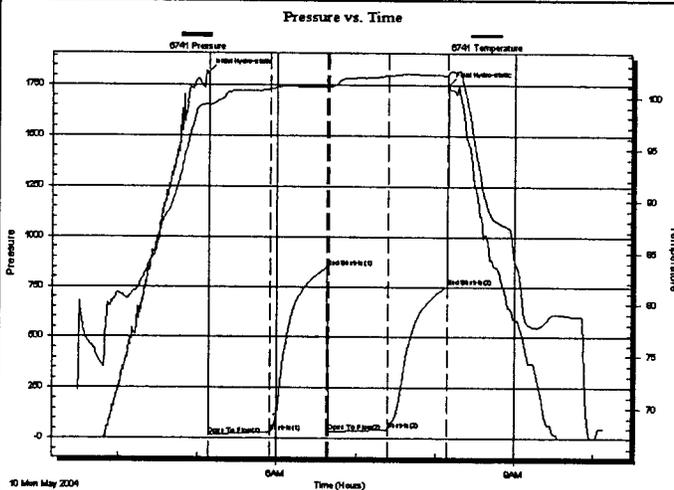
Start Time: **03:29:01**

End Time: **10:08:55**

Time On Btm: **2004.05.10 @ 05:07:26**

Time Off Btm: **2004.05.10 @ 08:09:26**

TEST COMMENT: IF-Weak built to 4" in. IS-Dead
FF-Weak built to 1" in. FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1812.53	99.33	Initial Hydro-static
1	16.80	99.15	Open To Flow (1)
48	30.94	100.77	Shut-in (1)
91	847.82	101.01	End Shut-in (1)
92	33.58	100.93	Open To Flow (2)
136	42.90	102.08	Shut-in (2)
181	752.55	102.12	End Shut-in (2)
182	1752.97	102.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	MCO-50% mud-50% oil	0.70
25.00	Clean oil	0.35

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Staab Energy & Leasing

Ed East # 1

2514 Haney Drive
Hays, Ks. 67601-2220

27-12s-17w

Job Ticket: 19875

DST#: 5

ATTN: Norman G. Staab

Test Start: 2004.05.10 @ 03:28:56

Tool Information

Drill Pipe:	Length: 3630.00 ft	Diameter: 3.80 inches	Volume: 50.92 bbl	Tool Weight: 3400.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
		Total Volume: 50.92 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3618.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	82.00 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			3599.00	
Shut In Tool	5.00			3604.00	
Hydraulic tool	5.00			3609.00	
Packer	4.00			3613.00	20.00 Bottom Of Top Packer
Packer	5.00			3618.00	
Stubb	1.00			3619.00	
Perforations	1.00			3620.00	
Change Over Sub	1.00			3621.00	
Recorder	0.00	6741	Inside	3621.00	
Blank Spacing	30.00			3651.00	
Change Over Sub	1.00			3652.00	
Perforations	25.00			3677.00	
Recorder	0.00	13308	Outside	3677.00	
Bullnose	3.00			3680.00	62.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Staab Energy & Leasing

Ed East # 1

2514 Haney Drive
Hays, Ks. 67601-2220

27-12s-17w

Job Ticket: 19875

DST#: 5

ATTN: Norman G. Staab

Test Start: 2004.05.10 @ 03:28:56

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
50.00	MCO-50% mud-50% oil	0.701
25.00	Clean oil	0.351

Total Length: 75.00 ft Total Volume: 1.052 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

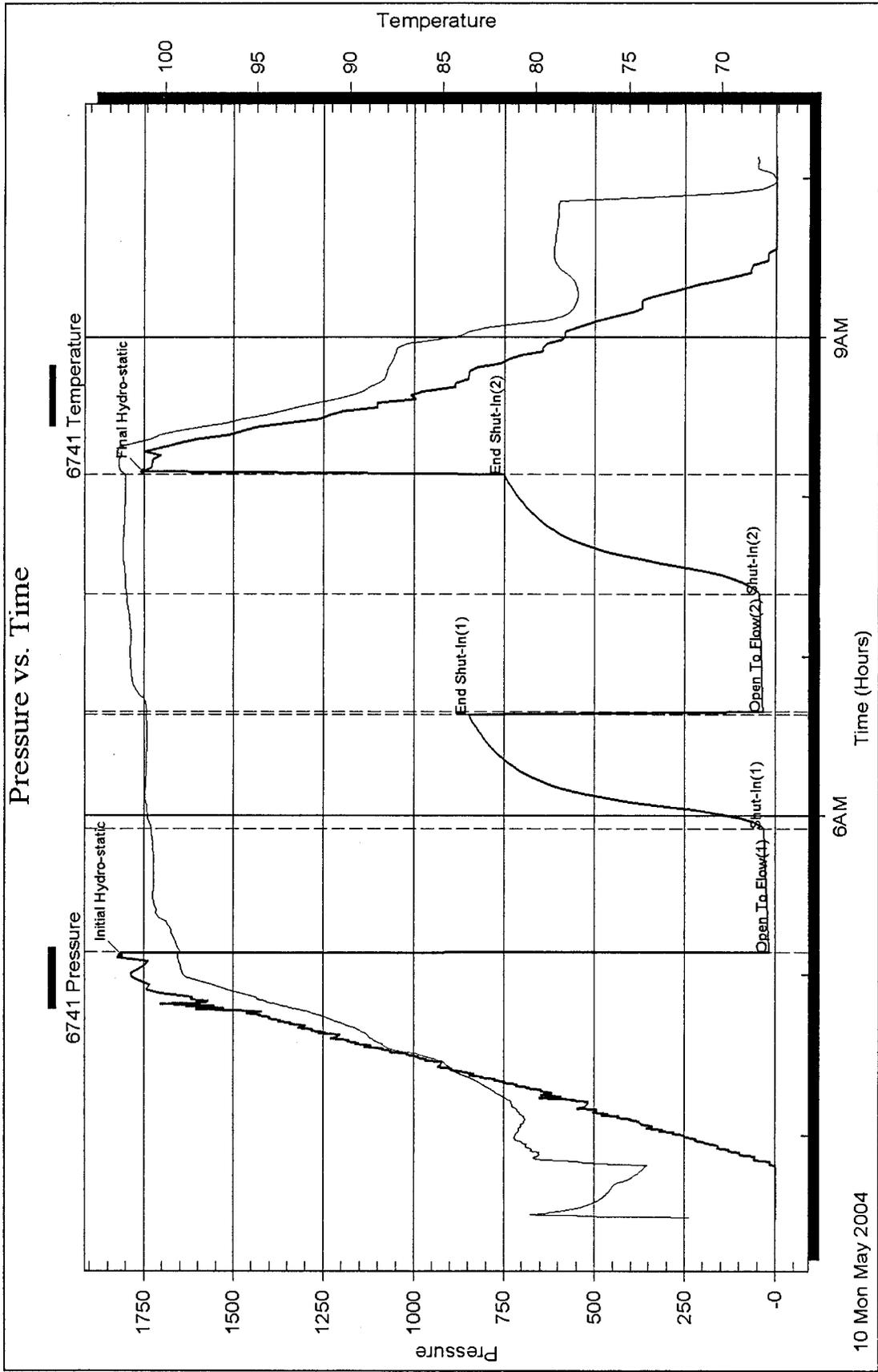
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



10 Mon May 2004