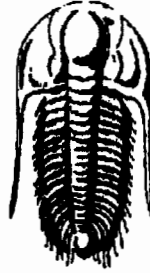


15-171-20723

17-19s-31w

IND



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **FILM Natural Resources**

410 17th St Ste 900
Denver, Co 80202

CONFIDENTIAL

OCT 20 2009

KCC

ATTN: Gary Doke/ Josh Austi

17-19s-31w Scott KS

Smith 16D-17-1931

Start Date: 2009.07.31 @ 03:48:42

End Date: 2009.07.31 @ 11:01:21

Job Ticket #: 34445 DST #: 1

RECEIVED

OCT 22 2009

KCC WICHITA

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

FILM Natural Resources

Smith 16D-17-1931

17-19s-31w Scott KS

DST # 1

Lansing I

2009.07.31



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FILM Natural Resources

Smith 16D-17-1931

410 17th St Ste 900
Denver, Co 80202

17-19s-31w Scott KS

Job Ticket: 34445

DST#: 1

ATTN: Gary Doke/ Josh Austi Denver, Co 80202

Test Start: 2009.07.31 @ 03:48:42

GENERAL INFORMATION:

Formation: **Lansing I**

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

Time Tool Opened: 05:59:07

Time Test Ended: 11:01:21

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Interval: **4185.00 ft (KB) To 4215.00 ft (KB) (TVD)**

Reference Elevations: **2770.00 ft (KB)**

Total Depth: **4215.00 ft (KB) (TVD)**

2765.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Good**

KB to GR/CF: **5.00 ft**

Serial #: 8373

Inside

Press@RunDepth: **108.01 psig @ 4186.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2009.07.31**

End Date:

2009.07.31

Last Calib.:

2009.07.31

Start Time: **03:48:42**

End Time:

11:01:21

Time On Btrc:

2009.07.31 @ 05:57:07

Time Off Btrc:

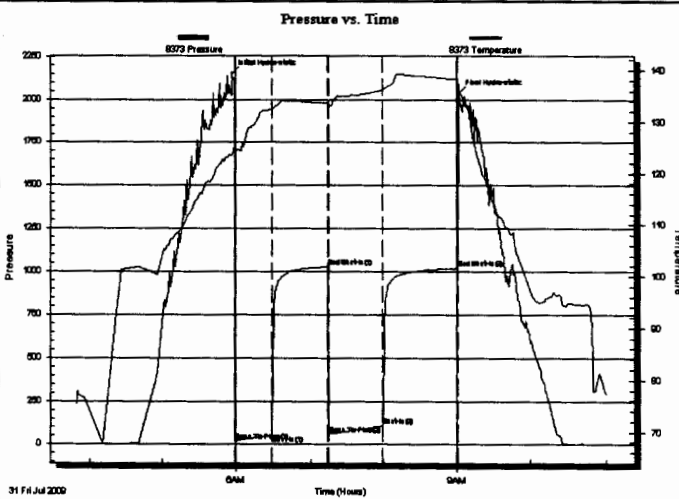
2009.07.31 @ 09:02:06

TEST COMMENT: IF: 1/4 blow built to 5 in 30 min.

IS: No return.

FF: 1/4 blow built to 5 in 45 min.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2149.56	123.67	Initial Hydro-static
2	19.55	124.24	Open To Flow (1)
32	53.46	132.38	Shut-in(1)
77	1027.87	133.69	End Shut-in(1)
78	60.71	133.30	Open To Flow (2)
123	108.01	136.22	Shut-in(2)
184	1020.39	138.25	End Shut-in(2)
185	2035.13	136.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	mcw 90%w 10%m	0.60
63.00	wm 50%w 50%m	0.88
83.00	wcm 20%w 80%m	1.16

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FILM Natural Resources

Smith 16D-17-1931

410 17th St Ste 900
Denver, Co 80202

17-19s-31w Scott KS

Job Ticket: 34445

DST#: 1

ATTN: Gary Duke/ Josh Austi Denver, Co 80202

Test Start: 2009.07.31 @ 03:48:42

Tool Information

Drill Pipe:	Length: 4154.00 ft	Diameter: 3.80 inches	Volume: 58.27 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:	30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 58.42 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4185.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	50.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4166.00	
Shut In Tool	5.00			4171.00	
Hydraulic tool	5.00			4176.00	
Packer	5.00			4181.00	20.00 Bottom Of Top Packer
Packer	4.00			4185.00	
Stubb	1.00			4186.00	
Recorder	0.00	6772	Inside	4186.00	
Recorder	0.00	8373	Inside	4186.00	
Perforations	24.00			4210.00	
Bullnose	5.00			4215.00	30.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY.

FILM Natural Resources

Smith 16D-17-1931

410 17th St Ste 900
Denver, Co 80202

17-19s-31w Scott KS

Job Ticket: 34445

DST#: 1

ATTN: Gary Doke/ Josh Austi Denver, Co 80202

Test Start: 2009.07.31 @ 03:48:42

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

48000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
63.00	mcw 90%w 10%m	0.601
63.00	w m 50%w 50%m	0.884
83.00	w cm 20%w 80%m	1.164

Total Length: 209.00 ft Total Volume: 2.649 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .15@73=48000

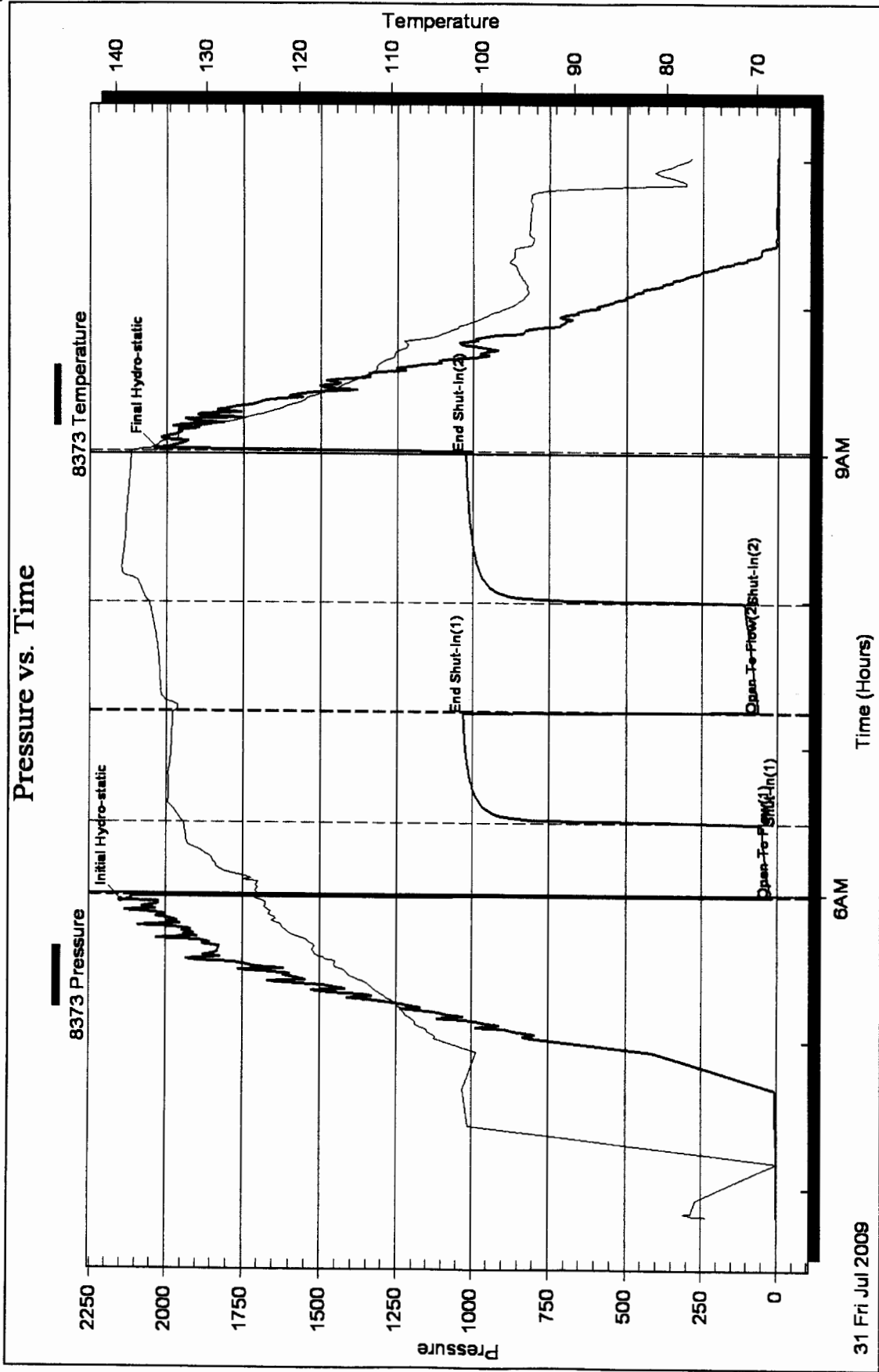
Serial #: 8373

Inside

FILM Natural Resources

17-19s-31w Scott KS

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **FILM Natural Resources**

410 17th St Ste 900
Denver, Co 80202

ATTN: Gary Doke/ Josh Austi

17-19s-31w Scott KS

Smith 16D-17-1931

Start Date: 2009.07.31 @ 23:18:03

End Date: 2009.08.01 @ 07:29:57

Job Ticket #: 34446 DST #: 2

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLM Natural Resources

Smith 16D-17-1931

410 17th St Ste 900
Denver, Co 80202

17-19s-31w Scott KS

Job Ticket: 34446 DST#: 2

ATTN: Gary Doke/ Josh Austi Denver, Co 80202

Test Start: 2009.07.31 @ 23:18:03

GENERAL INFORMATION:

Formation: **Lansing J-L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:03:58
 Time Test Ended: 07:29:57

Test Type: Conventional Bottom Hole
 Tester: Brandon Turley
 Unit No: 35

Interval: **4215.00 ft (KB) To 4315.00 ft (KB) (TVD)**
 Total Depth: 4315.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2770.00 ft (KB)
 2765.00 ft (CF)
 KB to GR/CF: 5.00 ft

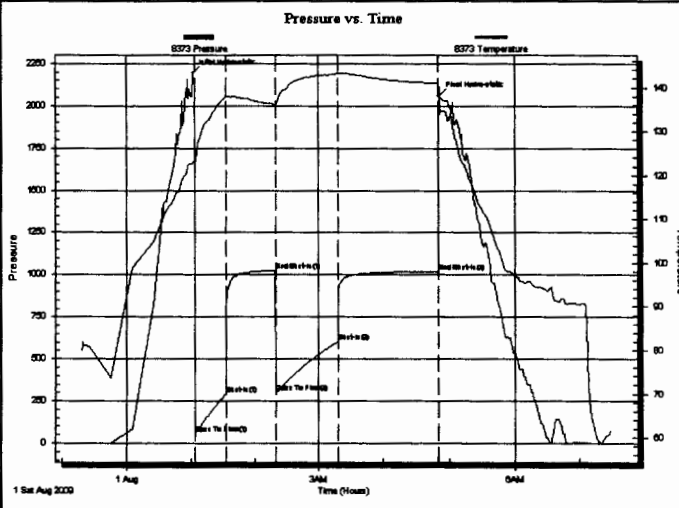
Serial #: 8373

Inside

Press@RunDepth: 603.38 psig @ 4216.00 ft (KB)
 Start Date: 2009.07.31 End Date: 2009.08.01
 Start Time: 23:18:03 End Time: 07:29:57

Capacity: 7000.00 psig
 Last Calib.: 2009.08.01
 Time On Btrm: 2009.08.01 @ 01:02:13
 Time Off Btrm: 2009.08.01 @ 04:51:12

TEST COMMENT: IF: 1/4 blow BOB in 4 min.
 IS: No return.
 FF: 1/4 blow BOB in 22 min.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2192.66	122.76	Initial Hydro-static
2	58.34	122.62	Open To Flow (1)
31	292.36	137.85	Shut-In(1)
78	1026.43	136.07	End Shut-In(1)
78	300.19	135.80	Open To Flow (2)
136	603.38	143.12	Shut-In(2)
228	1020.87	140.96	End Shut-In(2)
229	2060.77	139.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
630.00	mcw 95%w 5%m	8.55
441.00	mw 50%w 50%m	6.19
378.00	ow cm 2%o 38%w 60%m	5.30

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FILM Natural Resources

Smith 16D-17-1931

410 17th St Ste 900
Denver, Co 80202

17-19s-31w Scott KS

Job Ticket: 34446

DST#: 2

ATTN: Gary Doke/ Josh Austi Denver, Co 80202

Test Start: 2009.07.31 @ 23:18:03

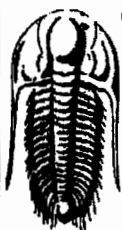
Tool Information

Drill Pipe:	Length: 4186.00 ft	Diameter: 3.80 inches	Volume: 58.72 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: 30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4215.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.00 ft			
Tool Length:	120.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4196.00	
Shut In Tool	5.00			4201.00	
Hydraulic tool	5.00			4206.00	
Packer	5.00			4211.00	20.00 Bottom Of Top Packer
Packer	4.00			4215.00	
Stubb	1.00			4216.00	
Recorder	0.00	6772	Inside	4216.00	
Recorder	0.00	8373	Inside	4216.00	
Perforations	29.00			4245.00	
Change Over Sub	1.00			4246.00	
Drill Pipe	63.00			4309.00	
Change Over Sub	1.00			4310.00	
Bullnose	5.00			4315.00	100.00 Bottom Packers & Anchor

Total Tool Length: 120.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

FILM Natural Resources

Smith 16D-17-1931

410 17th St Ste 900
Denver, Co 80202

17-19s-31w Scott KS

Job Ticket: 34446

DST#: 2

ATTN: Gary Doke/ Josh Austi Denver, Co 80202

Test Start: 2009.07.31 @ 23:18:03

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

55000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.75 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
630.00	mcw 95%w 5% <i>m</i>	8.555
441.00	mw 50%w 50% <i>m</i>	6.186
378.00	ow cm 2% <i>o</i> 38%w 60% <i>m</i>	5.302

Total Length: 1449.00 ft

Total Volume: 20.043 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

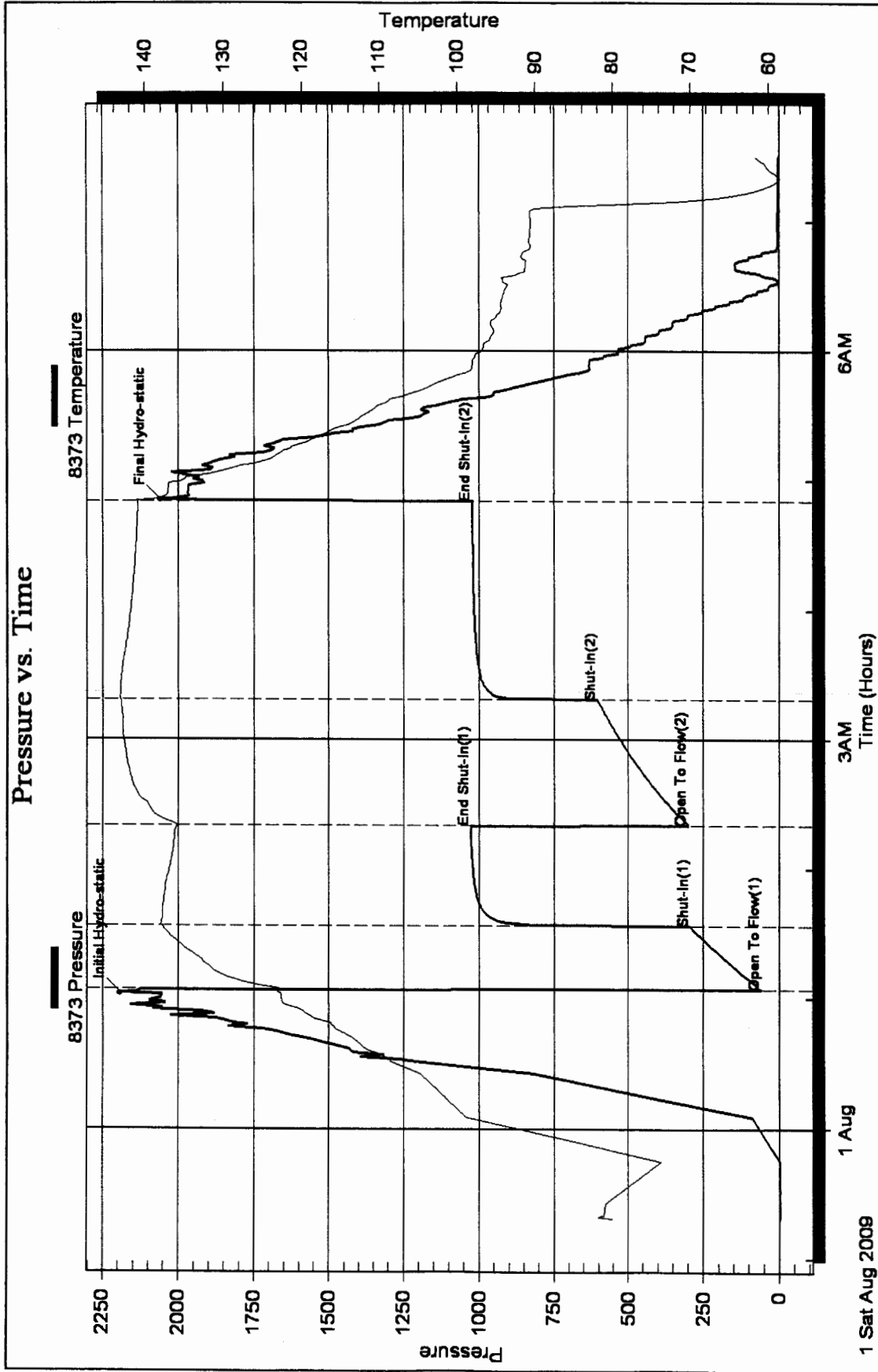
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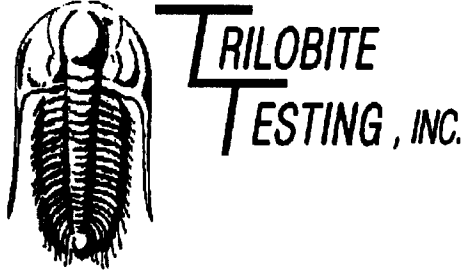
Laboratory Name:

Laboratory Location:

Recovery Comments: .17@58=55000

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **FILM Natural Resources**

410 17th St Ste 900
Denver, Co 80202

ATTN: Gary Doke/ Josh Austi

17-19s-31w Scott KS

Smith 16D-17-1931

Start Date: 2009.08.01 @ 17:57:15

End Date: 2009.08.02 @ 01:40:54

Job Ticket #: 34447 DST #: 3

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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TESTING, INC**

DRILL STEM TEST REPORT

FILM Natural Resources

410 17th St Ste 900
Denver, Co 80202

ATTN: Gary Doke/ Josh Austi Denver, Co 80202

Smith 16D-17-1931

17-19s-31w Scott KS

Job Ticket: 34447

DST#: 3

Test Start: 2009.08.01 @ 17:57:15

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:38:10

Time Test Ended: 01:40:54

Interval: **4320.00 ft (KB) To 4387.00 ft (KB) (TVD)**

Total Depth: 4387.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Reference Elevations: 2770.00 ft (KB)

2765.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8373

Inside

Press@RunDepth: 196.40 psig @ 4321.00 ft (KB)

Start Date: 2009.08.01

End Date:

2009.08.02

Start Time: 17:57:15

End Time:

01:40:54

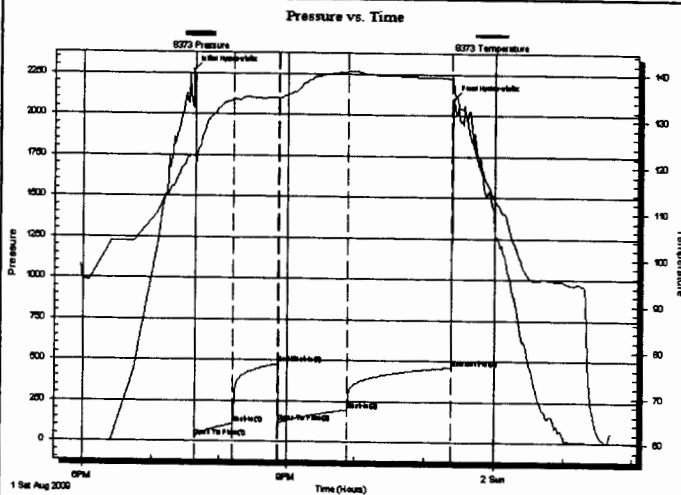
Capacity: 7000.00 psig

Last Calib.: 2009.08.02

Time On Btr: 2009.08.01 @ 19:36:25

Time Off Btr: 2009.08.01 @ 23:24:54

TEST COMMENT: IF: 1/4 blow BOB in 15 min.
IS: No return.
FF: 1/4 blow BOB in 45 min.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2267.69	122.20	Initial Hydro-static
2	25.93	120.72	Open To Flow (1)
36	108.85	134.49	Shut-In (1)
76	475.01	134.82	End Shut-In (1)
76	116.14	134.68	Open To Flow (2)
137	196.40	140.59	Shut-In (2)
227	461.01	139.33	End Shut-In (2)
229	2100.68	136.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	mcw 60%w 40%m	0.60
126.00	mw 50%w 50%m	1.77
201.00	ocw m 5%o 10%w 85%m	2.82
1.00	free oil 100%o	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FILM Natural Resources

Smith 16D-17-1931

410 17th St Ste 900
Denver, Co 80202

17-19s-31w Scott KS

Job Ticket: 34447

DST#: 3

ATTN: Gary Duke/ Josh Austi Denver, Co 80202

Test Start: 2009.08.01 @ 17:57:15

Tool Information

Drill Pipe:	Length: 4281.00 ft	Diameter: 3.80 inches	Volume: 60.05 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: 30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4320.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 ft			
Tool Length:	87.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4301.00	
Shut In Tool	5.00			4306.00	
Hydraulic tool	5.00			4311.00	
Packer	5.00			4316.00	20.00 Bottom Of Top Packer
Packer	4.00			4320.00	
Stubb	1.00			4321.00	
Recorder	0.00	6772	inside	4321.00	
Recorder	0.00	8373	inside	4321.00	
Perforations	27.00			4348.00	
Change Over Sub	1.00			4349.00	
Drill Pipe	32.00			4381.00	
Change Over Sub	1.00			4382.00	
Bullnose	5.00			4387.00	67.00 Bottom Packers & Anchor

Total Tool Length: 87.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FILM Natural Resources

Smith 16D-17-1931

410 17th St Ste 900
Denver, Co 80202

17-19s-31w Scott KS

Job Ticket: 34447

DST#: 3

ATTN: Gary Doke/ Josh Austi Denver, Co 80202

Test Start: 2009.08.01 @ 17:57:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

54000 ppm

Viscosity: 74.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	mcw 60%w 40%m	0.601
126.00	mw 50%w 50%m	1.767
201.00	ocw m 5%o 10%w 85%m	2.820
1.00	free oil 100%o	0.014

Total Length: 391.00 ft

Total Volume: 5.202 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .17@64=54000

Serial #: 8373

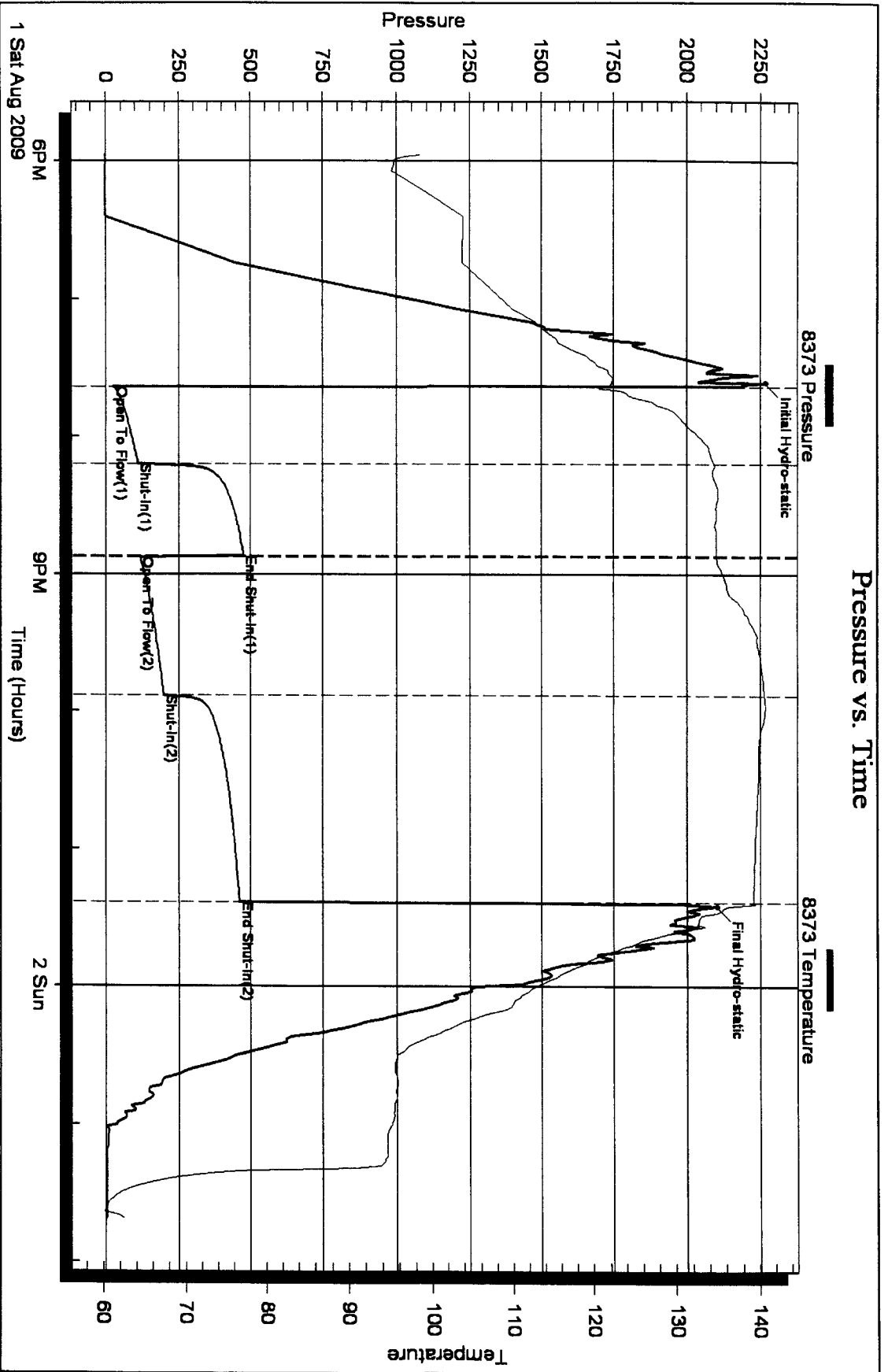
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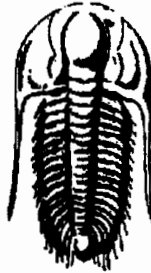
FILM Natural Resources

17-19s-31w Scott KS

DST Test Number: 3

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **FILM Natural Resources**

410 17th St Ste 900
Denver, Co 80202

ATTN: Gary Doke/ Josh Austi

17-19s-31w Scott KS

Smith 16D-17-1931

Start Date: 2009.08.02 @ 20:18:21

End Date: 2009.08.03 @ 02:11:00

Job Ticket #: 34448 DST #: 4

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Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
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TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FILM Natural Resources

410 17th St Ste 900
Denver, Co 80202

ATTN: Gary Doke/ Josh Austi Denver, Co 80202

Smith 16D-17-1931

17-19s-31w Scott KS

Job Ticket: 34448

DST#: 4

Test Start: 2009.08.02 @ 20:18:21

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 22:07:01
 Time Test Ended: 02:11:00

Test Type: Conventional Bottom Hole
 Tester: Brandon Turley
 Unit No: 35

Interval: **4579.00 ft (KB) To 4609.00 ft (KB) (TVD)**
 Total Depth: **4609.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2770.00 ft (KB)**
2765.00 ft (CF)
 KB to GR/CF: **5.00 ft**

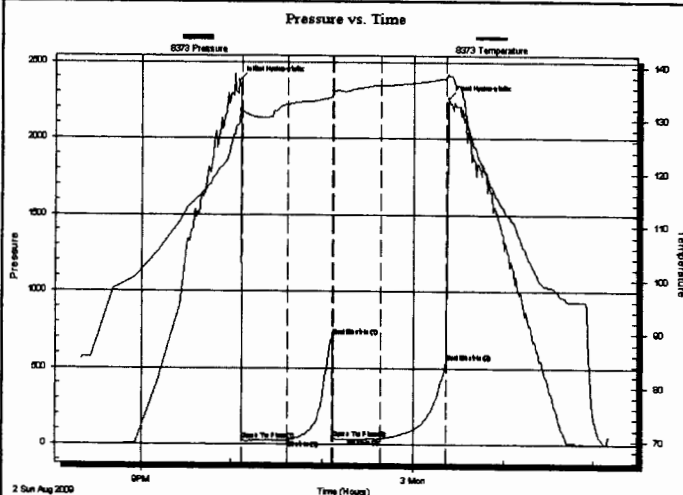
Serial #: 8373

Inside

Press@RunDepth: **36.62 psig @ 4580.00 ft (KB)**
 Start Date: **2009.08.02** End Date: **2009.08.03**
 Start Time: **20:18:21** End Time: **02:11:00**

Capacity: **7000.00 psig**
 Last Calib.: **2009.08.03**
 Time On Btrn: **2009.08.02 @ 22:05:16**
 Time Off Btrn: **2009.08.03 @ 00:22:46**

TEST COMMENT: IF: 1/4 blow built to 2 1/2 in 30 min.
 IS: No return.
 FF: 1/4 blow built to 3 in 30 min.
 FS: No return.



PRESSURE SUMMARY

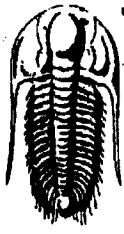
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2376.42	129.29	Initial Hydro-static
2	23.22	131.66	Open To Flow (1)
32	26.81	132.91	Shut-In(1)
61	703.72	134.32	End Shut-In(1)
62	37.13	135.09	Open To Flow (2)
93	36.62	136.51	Shut-In(2)
137	541.62	137.92	End Shut-In(2)
138	2259.18	138.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	ocm 5%o 95% m	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FILM Natural Resources

Smith 16D-17-1931

410 17th St Ste 900
Denver, Co 80202

17-19s-31w Scott KS

Job Ticket: 34448

DST#: 4

ATTN: Gary Duke/ Josh Austi Denver, Co 80202

Test Start: 2009.08.02 @ 20:18:21

Tool Information

Drill Pipe:	Length: 4536.00 ft	Diameter: 3.80 inches	Volume: 63.63 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:	30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	80000.00 lb
			Total Volume: 63.78 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4579.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	50.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

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

Stubb	1.00			4560.00	
Shut In Tool	5.00			4565.00	
Hydraulic tool	5.00			4570.00	
Packer	5.00			4575.00	20.00 Bottom Of Top Packer
Packer	4.00			4579.00	
Stubb	1.00			4580.00	
Recorder	0.00	6772	inside	4580.00	
Recorder	0.00	8373	inside	4580.00	
Perforations	24.00			4604.00	
Bullnose	5.00			4609.00	30.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FILM Natural Resources

Smith 16D-17-1931

410 17th St Ste 900
Denver, Co 80202

17-19s-31w Scott KS

Job Ticket: 34448

DST#: 4

ATTN: Gary Doke/ Josh AustiDenver, Co 80202

Test Start: 2009.08.02 @ 20:18:21

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 13.56 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	ocm 5%o 95% _m	0.419

Total Length: 50.00 ft

Total Volume: 0.419 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

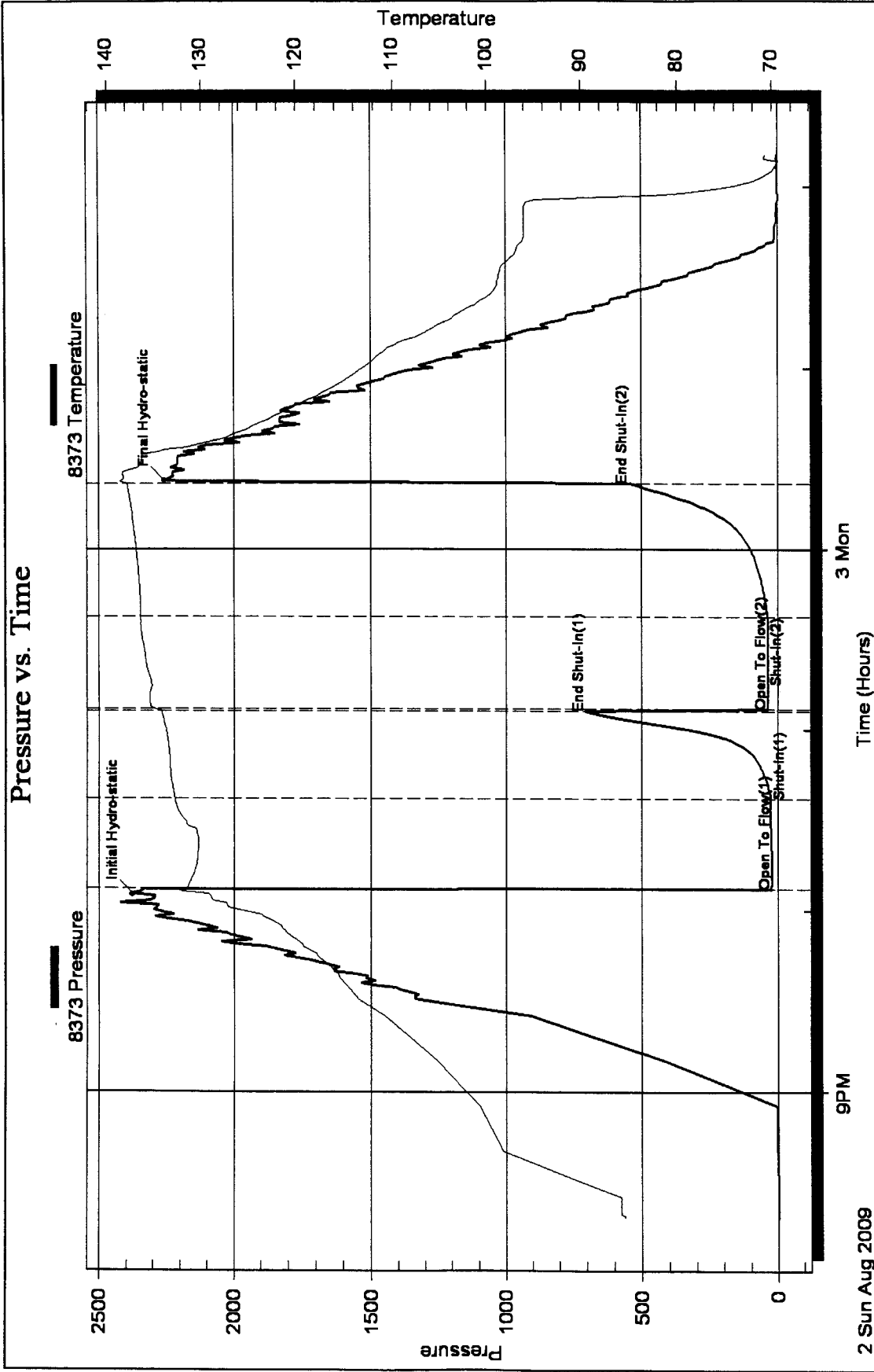
Serial #:

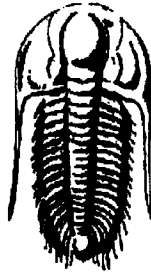
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **FILM Natural Resources**

410 17th St Ste 900
Denver, Co 80202

ATTN: Gary Doke/ Josh Austi

17-19s-31w Scott KS

Smith 16D-17-1931

Start Date: 2009.08.03 @ 08:28:18

End Date: 2009.08.03 @ 16:32:27

Job Ticket #: 34449 DST #: 5

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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OCT 22 2009
KCC WICHITA



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FILM Natural Resources

Smith 16D-17-1931

410 17th St Ste 900
Denver, Co 80202

17-19s-31w Scott KS

Job Ticket: 34449

DST#: 5

ATTN: Gary Doke/ Josh Austi Denver, Co 80202

Test Start: 2009.08.03 @ 08:28:18

GENERAL INFORMATION:

Formation: **Miss-Spergen**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:16:58

Time Test Ended: 16:32:27

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4595.00 ft (KB) To 4630.00 ft (KB) (TVD)**

Total Depth: 4630.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2770.00 ft (KB)

2765.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8373

Inside

Press@RunDepth: 163.23 psig @ 4596.00 ft (KB)

Start Date: 2009.08.03

End Date:

2009.08.03

Start Time: 08:28:18

End Time:

16:32:27

Capacity:

7000.00 psig

Last Calib.:

2009.08.03

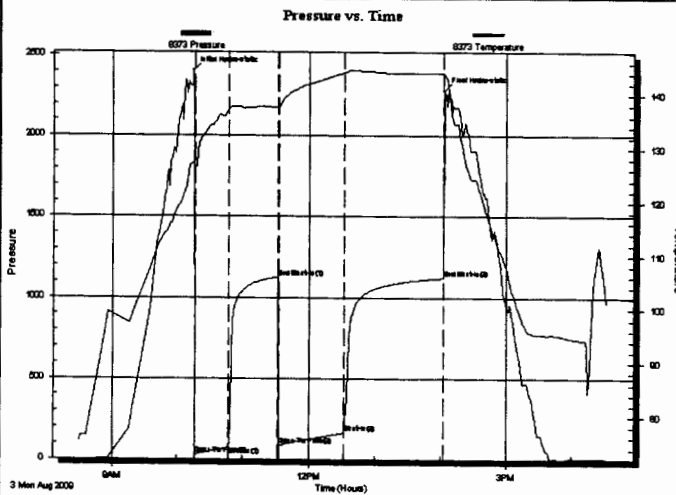
Time On Btmr:

2009.08.03 @ 10:15:13

Time Off Btmr:

2009.08.03 @ 14:02:57

TEST COMMENT: IF: 1/4 blow BOB in 16 min.
IS: Surface blow built to 1/2 in 45 min.
FF: 1/4 blow BOB in 25 min.
FS: Surface blow built to 7 in 90 min.



PRESSURE SUMMARY

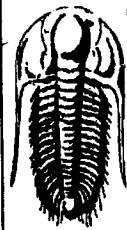
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2401.82	127.31	Initial Hydro-static
2	25.68	126.37	Open To Flow (1)
33	75.18	137.25	Shut-In (1)
77	1124.86	137.80	End Shut-In (1)
78	87.75	137.56	Open To Flow (2)
137	163.23	144.23	Shut-In (2)
227	1120.54	144.18	End Shut-In (2)
228	2279.19	144.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	ocw m 2%o 68%w 30%m	0.60
126.00	ocw m 5%o 10%w 85%m	1.77
63.00	ocm 50%o 50%m	0.88
94.00	go 20%g 80%o	1.32
0.00	472 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FILM Natural Resources

Smith 16D-17-1931

410 17th St Ste 900
Denver, Co 80202

17-19s-31w Scott KS

Job Ticket: 34449

DST#: 5

ATTN: Gary Doke/ Josh Austi Denver, Co 80202

Test Start: 2009.08.03 @ 08:28:18

Tool Information

Drill Pipe:	Length: 4568.00 ft	Diameter: 3.80 inches	Volume: 64.08 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: 30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 64.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4595.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4576.00	
Shut In Tool	5.00			4581.00	
Hydraulic tool	5.00			4586.00	
Packer	5.00			4591.00	20.00 Bottom Of Top Packer
Packer	4.00			4595.00	
Stubb	1.00			4596.00	
Recorder	0.00	6772	Inside	4596.00	
Recorder	0.00	8373	Inside	4596.00	
Perforations	29.00			4625.00	
Bullnose	5.00			4630.00	35.00 Bottom Packers & Anchor
Total Tool Length:	55.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FILM Natural Resources

Smith 16D-17-1931

410 17th St Ste 900
Denver, Co 80202

17-19s-31w Scott KS

Job Ticket: 34449

DST#: 5

ATTN: Gary Doke/ Josh Austi Denver, Co 80202

Test Start: 2009.08.03 @ 08:28:18

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

26 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

18000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 13.57 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	ocw m 2%o 68%w 30%m	0.601
126.00	ocw m 5%o 10%w 85%m	1.767
63.00	ocm 50%o 50%m	0.884
94.00	go 20%g 80%o	1.319
0.00	472 GIP	0.000

Total Length:

346.00 ft

Total Volume:

4.571 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 30@100=26

.25@100=18000

Serial #: 8373

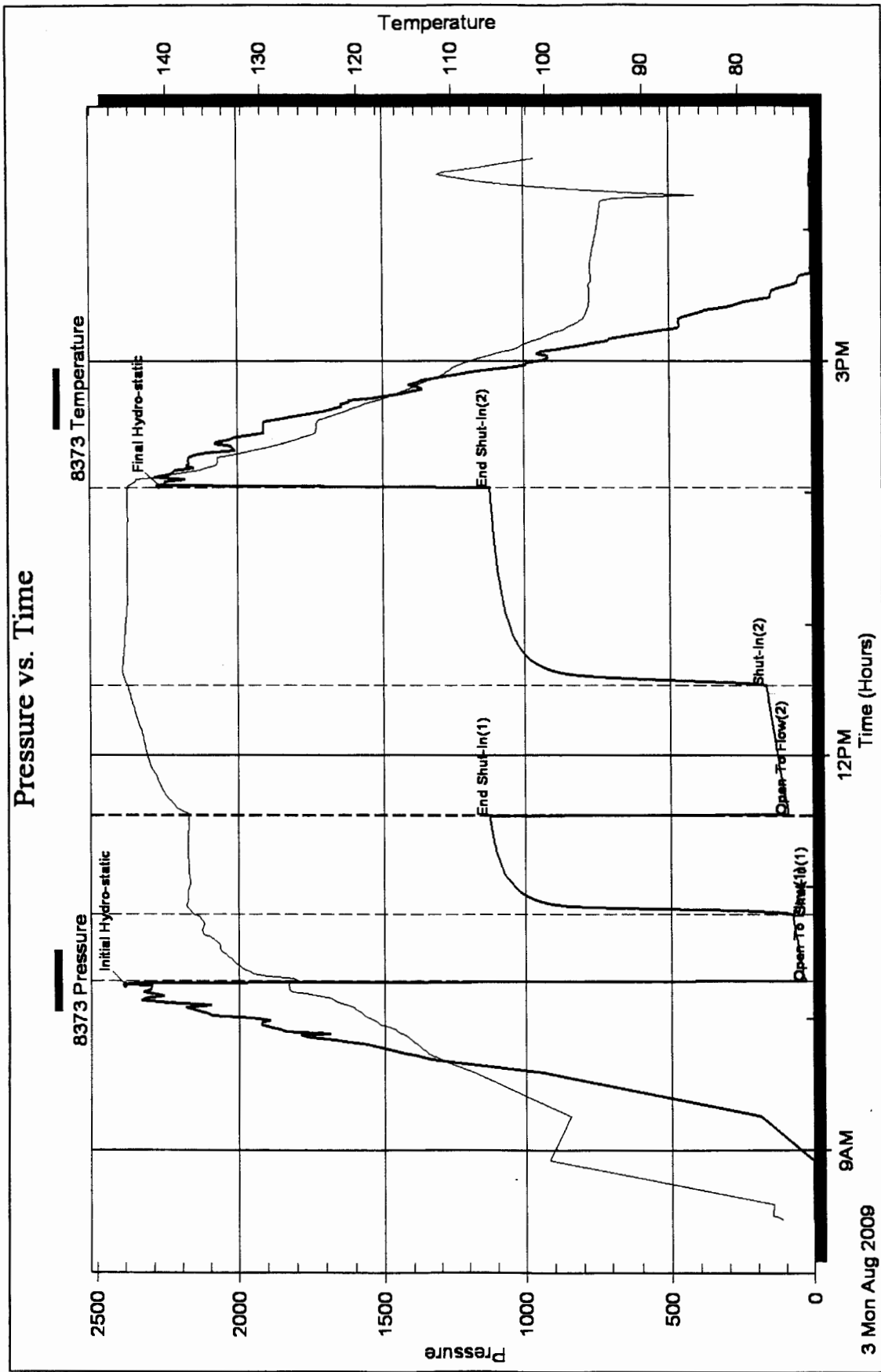
Inside

FILM Natural Resources

17-19s-31w Scott KS

DST Test Number: 5

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 34449

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