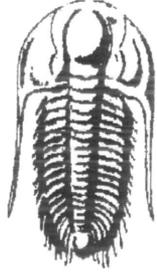


04-08-23W KGS ✓
15-065-23470-0000



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **H&M Pet.**

731 N. Weber St. Ste. 200
Colorado Springs, CO
80903

ATTN: Don Rider

4 8 23 Graham KS

Sand Creek #2

Start Date: 2008.09.09 @ 06:41:19

End Date: 2008.09.09 @ 13:10:19

Job Ticket #: 32758 DST #: 1

H&M Pet.
Sand Creek #2
4 8 23 Graham KS
DST # 1
LKC "C-D"
2008.09.09

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

H&M Pet.
731 N. Weber St. Ste. 200
Colorado Springs, CO 80903
ATTN: Don Rider

Sand Creek #2
4 8 23 Graham KS
Job Ticket: 32758 **DST#: 1**
Test Start: 2008.09.09 @ 06:41:19

GENERAL INFORMATION:

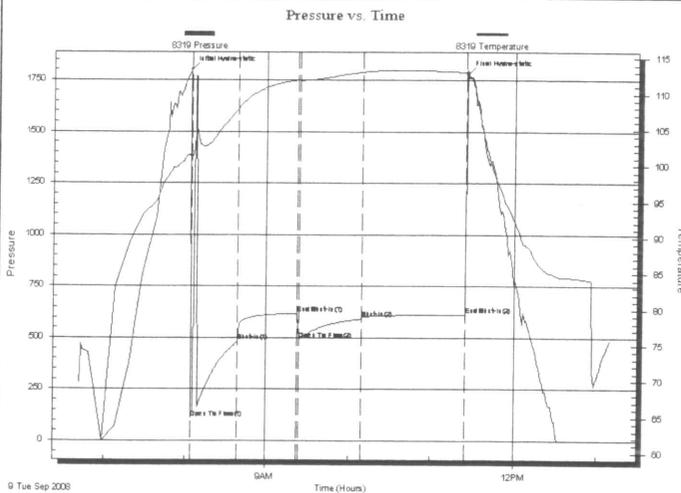
Formation: **LKC "C-D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:04:19
Time Test Ended: 13:10:19
Test Type: Conventional Bottom Hole
Tester: Kyle Kinderknecht
Unit No: 31
Interval: **3608.00 ft (KB) To 3650.00 ft (KB) (TVD)**
Total Depth: 3650.00 ft (KB) (TVD)
Reference Elevations: 2329.00 ft (KB)
2324.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good
KB to GR/CF: 5.00 ft

Serial #: 8319

Inside

Press@RunDepth: 590.74 psig @ 3611.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2008.09.09 End Date: 2008.09.09 Last Calib.: 2008.09.09
Start Time: 06:41:24 End Time: 13:10:18 Time On Btm: 2008.09.09 @ 08:03:49
Time Off Btm: 2008.09.09 @ 11:25:18

TEST COMMENT: IF BOB 1 1/2 min
FF BOB 26 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1798.30	101.71	Initial Hydro-static
1	109.69	101.31	Open To Flow (1)
35	480.62	107.97	Shut-In(1)
79	618.33	111.90	End Shut-In(1)
80	488.95	111.85	Open To Flow (2)
125	590.74	113.04	Shut-In(2)
201	613.91	113.04	End Shut-In(2)
202	1777.38	113.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1260.00	Mdy Wtr	16.71
0.00	Show of oil in tool	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&MPet.
731 N. Weber St. Ste. 200
Colorado Springs, CO
80903
ATTN: Don Rider

Sand Creek #2
4 8 23 Graham KS
Job Ticket: 32758 **DST#: 1**
Test Start: 2008.09.09 @ 06:41:19

Tool Information

Drill Pipe:	Length: 3486.00 ft	Diameter: 3.82 inches	Volume: 49.42 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 50.03 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3608.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	65.00 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			3586.00	
Shut In Tool	5.00			3591.00	
Hydraulic tool	5.00			3596.00	
Safety Joint	3.00			3599.00	
Packer	4.00			3603.00	23.00 Bottom Of Top Packer
Packer	5.00			3608.00	
Stubb	1.00			3609.00	
Perforations	2.00			3611.00	
Recorder	0.00	8319	Inside	3611.00	
Recorder	0.00	8369	Inside	3611.00	
Blank Spacing	31.00			3642.00	
Perforations	5.00			3647.00	
Bullnose	3.00			3650.00	42.00 Bottom Packers & Anchor

Total Tool Length: 65.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

H&MPet.
731 N. Weber St. Ste. 200
Colorado Springs, CO
80903
ATTN: Don Rider

Sand Creek #2
4 8 23 Graham KS
Job Ticket: 32758 **DST#: 1**
Test Start: 2008.09.09 @ 06:41:19

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:	30000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	Gas Cushion Type:	
Water Loss: 6.38 in ³	Gas Cushion Pressure: psig		
Resistivity: ohm.m			
Salinity: 800.00 ppm			
Filter Cake: inches			

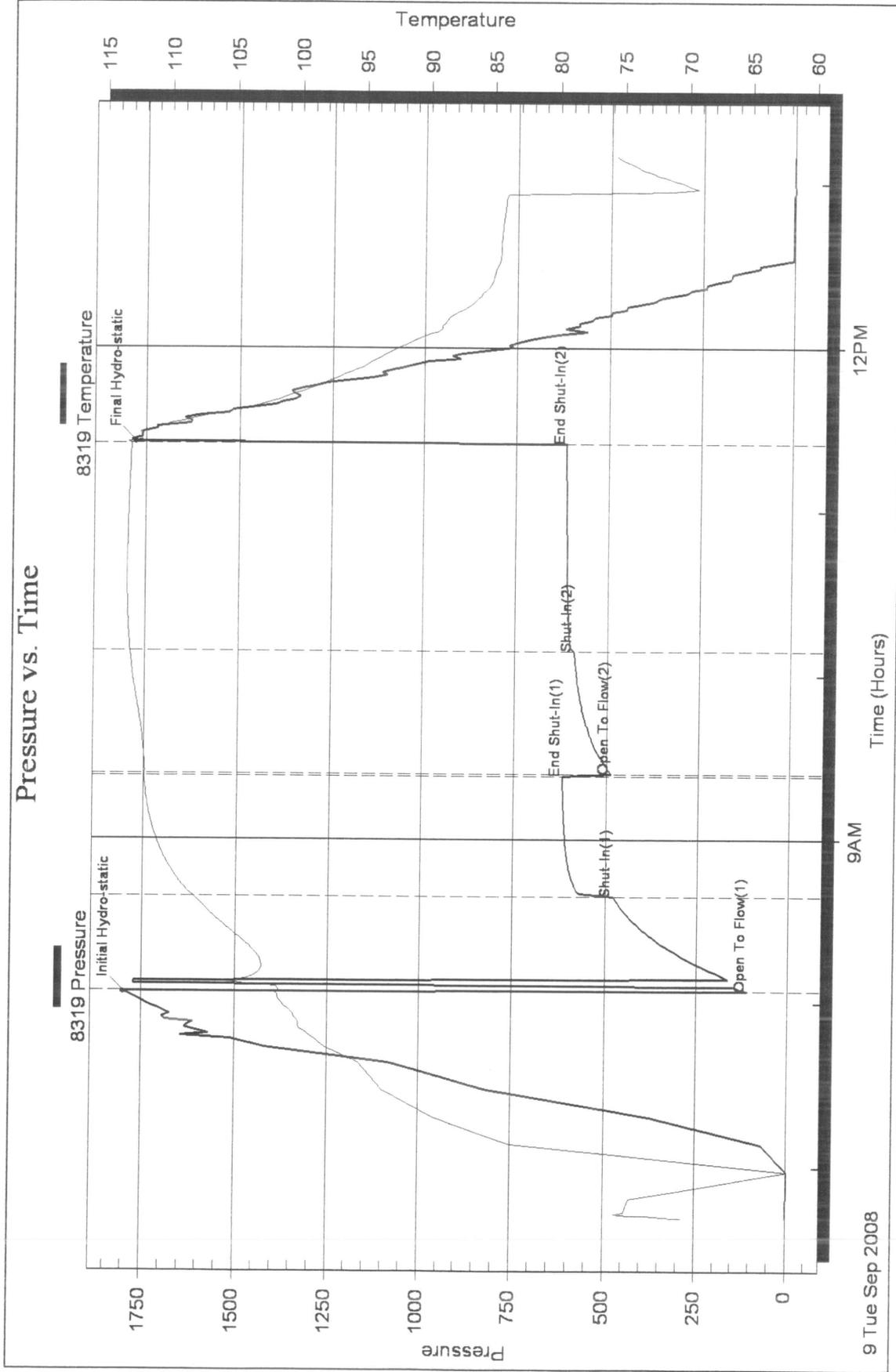
Recovery Information

Recovery Table

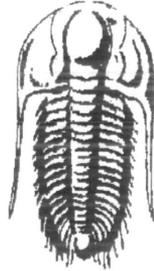
Length ft	Description	Volume bbl
1260.00	Mdy Wtr	16.713
0.00	Show of oil in tool	0.000

Total Length: 1260.00 ft Total Volume: 16.713 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: rw .26 @ 73 deg.

Pressure vs. Time



04-08-23W



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **H&M Pet.**

731 N. Weber St. Ste. 200
Colorado Springs, CO
80903

ATTN: Don Rider

4 8 23 Graham KS

Sand Creek #2

Start Date: 2008.09.09 @ 19:25:59

End Date: 2008.09.10 @ 03:30:29

Job Ticket #: 32759 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

H&M Pet.

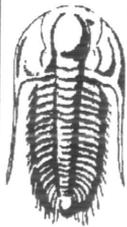
Sand Creek #2

4 8 23 Graham KS

DST # 2

LKC "E-F"

2008.09.09



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H&M Pet.
731 N. Weber St. Ste. 200
Colorado Springs, CO
80903
ATTN: Don Rider

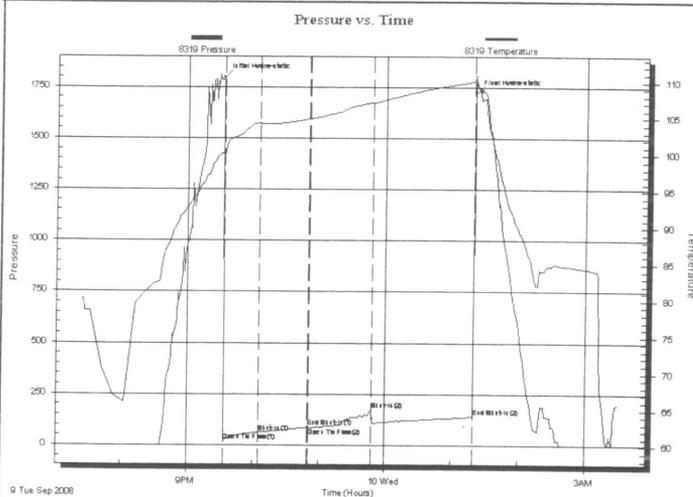
Sand Creek #2
4 8 23 Graham KS
Job Ticket: 32759 **DST#: 2**
Test Start: 2008.09.09 @ 19:25:59

GENERAL INFORMATION:

Formation: **LKC "E-F"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole
 Time Tool Opened: 21:32:59 Tester: Kyle Kinderknecht
 Time Test Ended: 03:30:29 Unit No: 31
 Interval: **3650.00 ft (KB) To 3680.00 ft (KB) (TVD)** Reference Elevations: 2329.00 ft (KB)
 Total Depth: 3680.00 ft (KB) (TVD) 2324.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8319 **Inside**
 Press@RunDepth: 175.08 psig @ 3653.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2008.09.09 End Date: 2008.09.10 Last Calib.: 2008.09.10
 Start Time: 19:26:04 End Time: 03:30:28 Time On Btm: 2008.09.09 @ 21:32:29
 Time Off Btm: 2008.09.10 @ 01:19:58

TEST COMMENT: IF 7 1/2"
 ISI 4 1/2"
 FF 6"
 FSI 4 1/2"



PRESSURE SUMMARY

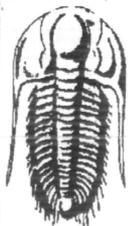
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1796.11	100.45	Initial Hydro-static
1	18.53	99.51	Open To Flow (1)
33	62.09	104.33	Shut-In(1)
77	88.24	104.92	End Shut-In(1)
78	83.52	104.93	Open To Flow (2)
136	175.08	107.23	Shut-In(2)
227	139.67	110.09	End Shut-In(2)
228	1722.41	111.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	Gsy Free Oil 45%g 55%o	1.83
120.00	GsyHMCO 10%g 50%o 40%	1.70
0.00	450' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&MPet.

Sand Creek #2

731 N. Weber St. Ste. 200
Colorado Springs, CO
80903

4 8 23 Graham KS

Job Ticket: 32759

DST#: 2

ATTN: Don Rider

Test Start: 2008.09.09 @ 19:25:59

Tool Information

Drill Pipe:	Length: 3523.00 ft	Diameter: 3.82 inches	Volume: 49.94 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 50.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3650.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	53.00 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			3628.00	
Shut In Tool	5.00			3633.00	
Hydraulic tool	5.00			3638.00	
Safety Joint	3.00			3641.00	
Packer	4.00			3645.00	23.00 Bottom Of Top Packer
Packer	5.00			3650.00	
Stubb	1.00			3651.00	
Perforations	2.00			3653.00	
Recorder	0.00	8319	Inside	3653.00	
Recorder	0.00	8369	Inside	3653.00	
Perforations	24.00			3677.00	
Bullnose	3.00			3680.00	30.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&M Pet.
731 N. Weber St. Ste. 200
Colorado Springs, CO
80903
ATTN: Don Rider

Sand Creek #2
4 8 23 Graham KS
Job Ticket: 32759 **DST#: 2**
Test Start: 2008.09.09 @ 19:25:59

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	33 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: inches			

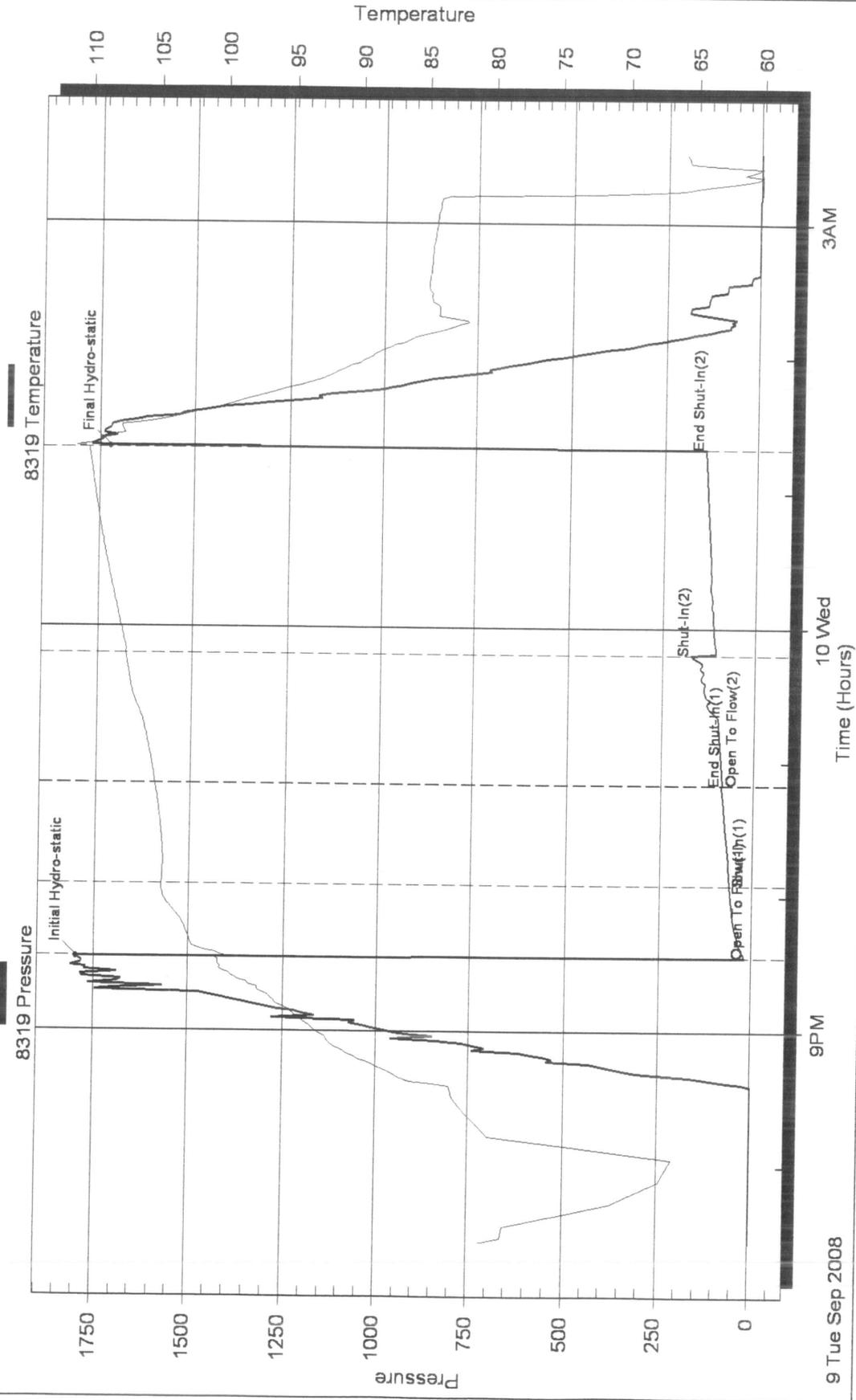
Recovery Information

Recovery Table

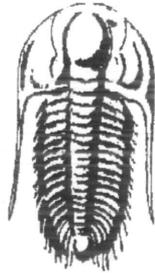
Length ft	Description	Volume bbl
210.00	Gsy Free Oil 45%g 55%o	1.829
120.00	GsyHMCO 10%g 50%o 40%	1.701
0.00	450' GIP	0.000

Total Length: 330.00 ft Total Volume: 3.530 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



04-08-23W



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **H&M Pet.**

731 N. Weber St. Ste. 200
Colorado Springs, CO
80903

ATTN: Don Rider

4 8 23 Graham KS

Sand Creek #2

Start Date: 2008.09.10 @ 11:42:27

End Date: 2008.09.10 @ 18:50:27

Job Ticket #: 32760 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

H&M Pet.

Sand Creek #2

4 8 23 Graham KS

DST # 3

LKC "H"

2008.09.10



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

H&M Pet.
731 N. Weber St. Ste. 200
Colorado Springs, CO 80903
ATTN: Don Rider

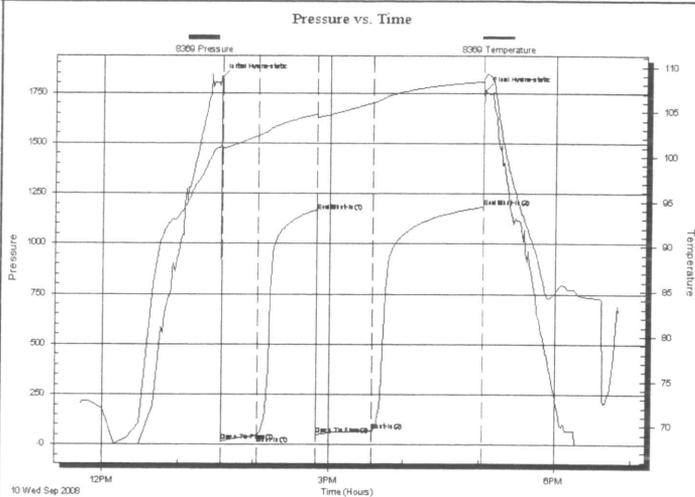
Sand Creek #2
4 8 23 Graham KS
Job Ticket: 32760 **DST#: 3**
Test Start: 2008.09.10 @ 11:42:27

GENERAL INFORMATION:

Formation: **LKC "H"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:33:57
Time Test Ended: 18:50:27
Test Type: Conventional Bottom Hole
Tester: Kyle Kinderknecht
Unit No: 31
Interval: **3694.00 ft (KB) To 3730.00 ft (KB) (TVD)**
Reference Elevations: 2329.00 ft (KB)
Total Depth: 3730.00 ft (KB) (TVD) 2324.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8369 **Inside**
Press@RunDepth: 68.26 psig @ 3697.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2008.09.10 End Date: 2008.09.10 Last Calib.: 2008.09.10
Start Time: 11:42:32 End Time: 18:50:26 Time On Btm: 2008.09.10 @ 13:33:27
Time Off Btm: 2008.09.10 @ 17:03:57

TEST COMMENT: IF Slow build to 3"
ISI weak surface died 15 min
FF Slow build to 4 1/2"
FSI No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1826.24	101.31	Initial Hydro-static
1	14.98	100.95	Open To Flow (1)
30	45.11	102.33	Shut-In(1)
76	1160.96	104.70	End Shut-In(1)
77	48.78	104.41	Open To Flow (2)
121	68.26	106.02	Shut-In(2)
209	1183.28	108.37	End Shut-In(2)
211	1761.61	108.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	HOCM 50%O 50%M	0.59
30.00	Clean Oil	0.39
0.00	60' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&MPet.
731 N. Weber St. Ste. 200
Colorado Springs, CO
80903
ATTN: Don Rider

Sand Creek #2
4 8 23 Graham KS
Job Ticket: 32760 **DST#: 3**
Test Start: 2008.09.10 @ 11:42:27

Tool Information

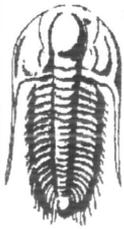
Drill Pipe:	Length: 3557.00 ft	Diameter: 3.82 inches	Volume: 50.42 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 51000.00 lb
			<u>Total Volume: 51.03 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3694.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	59.00 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			3672.00	
Shut In Tool	5.00			3677.00	
Hydraulic tool	5.00			3682.00	
Safety Joint	3.00			3685.00	
Packer	4.00			3689.00	23.00 Bottom Of Top Packer
Packer	5.00			3694.00	
Stubb	1.00			3695.00	
Perforations	2.00			3697.00	
Recorder	0.00	8319	Inside	3697.00	
Recorder	0.00	8369	Inside	3697.00	
Blank Spacing	30.00			3727.00	
Bullnose	3.00			3730.00	36.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&M Pet.
731 N. Weber St. Ste. 200
Colorado Springs, CO
80903
ATTN: Don Rider

Sand Creek #2
4 8 23 Graham KS
Job Ticket: 32760 **DST#: 3**
Test Start: 2008.09.10 @ 11:42:27

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	33 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.37 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 800.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	HOCM 50%O 50%M	0.590
30.00	Clean Oil	0.388
0.00	60' GIP	0.000

Total Length: 150.00 ft Total Volume: 0.978 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8369

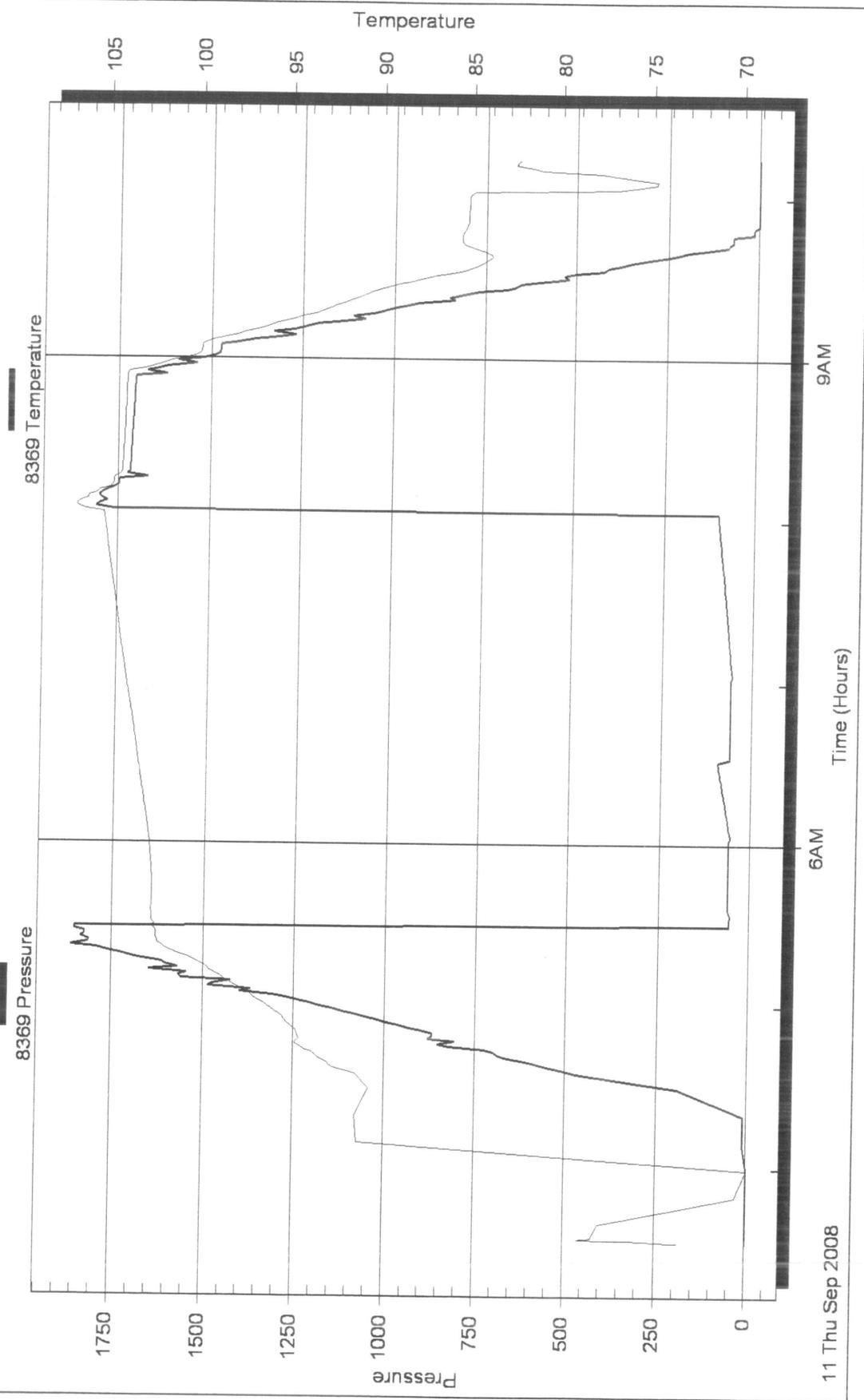
Inside

H&M Pet.

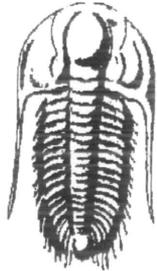
4 8 23 Graham KS

DST Test Number: 3

Pressure vs. Time



04-08-23W



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **H&M Pet.**

731 N. Weber St. Ste. 200
Colorado Springs, CO
80903

ATTN: Don Rider

4 8 23 Graham KS

Sand Creek #2

Start Date: 2008.09.11 @ 03:29:49

End Date: 2008.09.11 @ 10:13:49

Job Ticket #: 32761 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

H&M Pet.

Sand Creek #2

4 8 23 Graham KS

DST # 4

LKC "I-J"

2008.09.11



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&M Pet.
731 N. Weber St. Ste. 200
Colorado Springs, CO
80903
ATTN: Don Rider

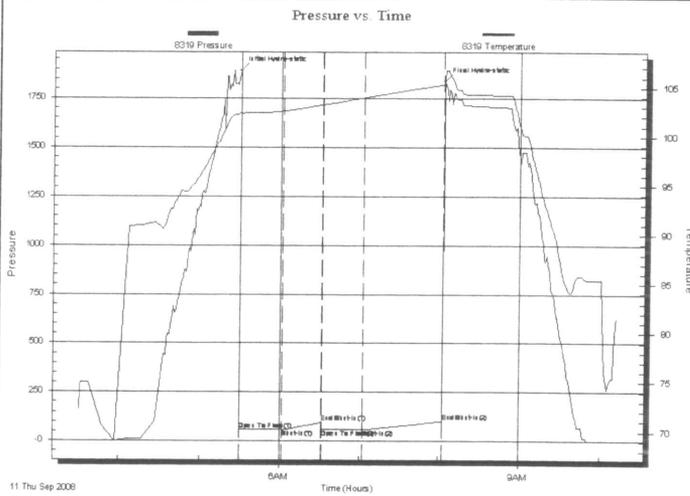
Sand Creek #2
4 8 23 Graham KS
Job Ticket: 32761 **DST#: 4**
Test Start: 2008.09.11 @ 03:29:49

GENERAL INFORMATION:

Formation: **LKC "I-J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:29:49
Time Test Ended: 10:13:49
Test Type: Conventional Bottom Hole
Tester: Kyle Kinderknecht
Unit No: 31
Interval: **3726.00 ft (KB) To 3766.00 ft (KB) (TVD)**
Reference Elevations: 2329.00 ft (KB)
Total Depth: 3766.00 ft (KB) (TVD) 2324.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8319 Inside
Press@RunDepth: 59.58 psig @ 3729.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2008.09.11 End Date: 2008.09.11 Last Calib.: 2008.09.11
Start Time: 03:29:54 End Time: 10:13:48 Time On Btm: 2008.09.11 @ 05:29:19
Time Off Btm: 2008.09.11 @ 08:03:19

TEST COMMENT: IF Surface died 1 min. flushed tool surface died 30 sec.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1892.90	102.52	Initial Hydro-static
1	57.02	102.27	Open To Flow (1)
33	58.49	102.59	Shut-In(1)
62	92.92	103.22	End Shut-In(1)
62	59.07	103.22	Open To Flow (2)
93	59.58	103.96	Shut-In(2)
154	100.48	105.30	End Shut-In(2)
154	1838.90	105.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	Mud	0.37

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&MPet.
731 N. Weber St. Ste. 200
Colorado Springs, CO
80903
ATTN: Don Rider

Sand Creek #2
4 8 23 Graham KS
Job Ticket: 32761 **DST#: 4**
Test Start: 2008.09.11 @ 03:29:49

Tool Information

Drill Pipe:	Length: 3587.00 ft	Diameter: 3.82 inches	Volume: 50.85 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 51.46 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3726.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	63.00 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			3704.00	
Shut In Tool	5.00			3709.00	
Hydraulic tool	5.00			3714.00	
Safety Joint	3.00			3717.00	
Packer	4.00			3721.00	23.00 Bottom Of Top Packer
Packer	5.00			3726.00	
Stubb	1.00			3727.00	
Perforations	2.00			3729.00	
Recorder	0.00	8319	Inside	3729.00	
Recorder	0.00	8369	Inside	3729.00	
Blank Spacing	30.00			3759.00	
Perforations	4.00			3763.00	
Bullnose	3.00			3766.00	40.00 Bottom Packers & Anchor

Total Tool Length: 63.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

H&MPet.
731 N. Weber St. Ste. 200
Colorado Springs, CO
80903
ATTN: Don Rider

Sand Creek #2
4 8 23 Graham KS
Job Ticket: 32761 **DST#: 4**
Test Start: 2008.09.11 @ 03:29:49

Mud and Cushion Information

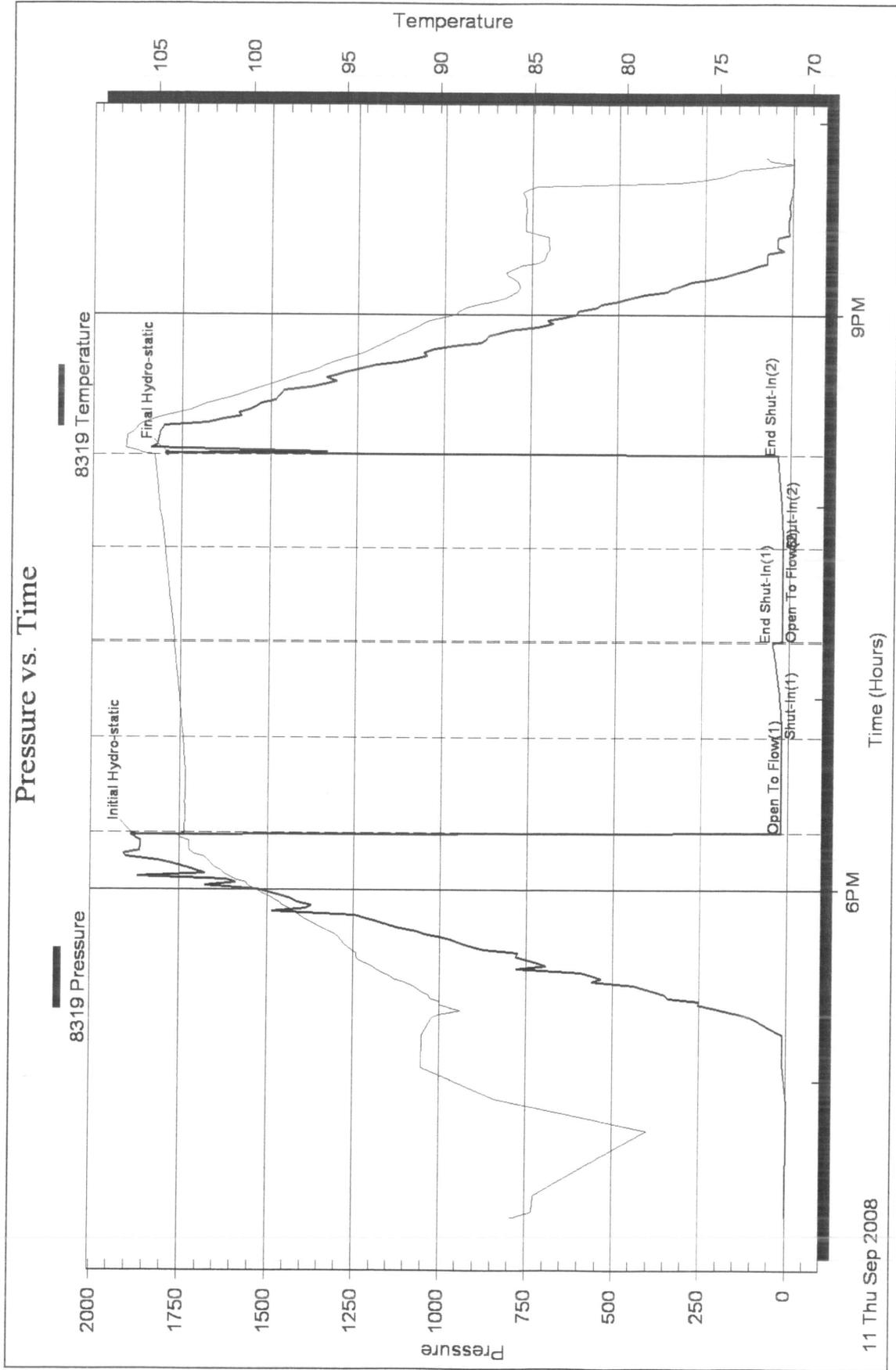
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: inches			

Recovery Information

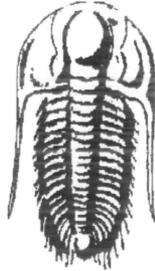
Recovery Table

Length ft	Description	Volume bbl
75.00	Mud	0.369

Total Length: 75.00 ft Total Volume: 0.369 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



04-08-23W



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **H&M Pet.**

731 N. Weber St. Ste. 200
Colorado Springs, CO
80903

ATTN: Don Rider

4 8 23 Graham KS

Sand Creek #2

Start Date: 2008.09.11 @ 16:17:28

End Date: 2008.09.11 @ 21:49:28

Job Ticket #: 32762 DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

H&M Pet.

Sand Creek #2

4 8 23 Graham KS

DST # 5

LKC "K"

2008.09.11



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

H&M Pet.
731 N. Weber St. Ste. 200
Colorado Springs, CO 80903
ATTN: Don Rider

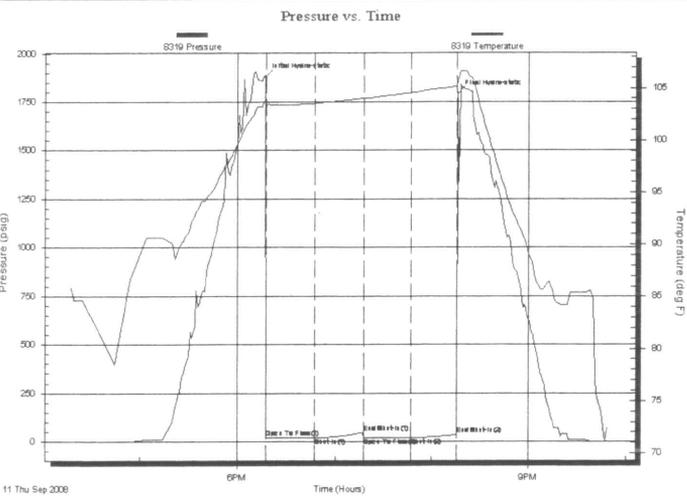
Sand Creek #2
4 8 23 Graham KS
Job Ticket: 32762 **DST#: 5**
Test Start: 2008.09.11 @ 16:17:28

GENERAL INFORMATION:

Formation: **LKC "K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:17:28
Time Test Ended: 21:49:28
Test Type: Conventional Bottom Hole
Tester: Kyle Kinderknecht
Unit No: 31
Interval: **3760.00 ft (KB) To 3780.00 ft (KB) (TVD)**
Reference Elevations: 2329.00 ft (KB)
Total Depth: 3650.00 ft (KB) (TVD) 2324.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8319 Inside
Press@RunDepth: 19.24 psig @ 3763.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2008.09.11 End Date: 2008.09.11 Last Calib.: 2008.09.11
Start Time: 16:17:33 End Time: 21:49:27 Time On Btm: 2008.09.11 @ 18:16:58
Time Off Btm: 2008.09.11 @ 20:16:28

TEST COMMENT: IF Weak surface died 8 min flushed tool weak surface died 1 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1880.41	103.83	Initial Hydro-static
1	18.75	103.33	Open To Flow (1)
31	19.05	103.53	Shut-In(1)
61	46.24	104.02	End Shut-In(1)
61	19.56	104.02	Open To Flow (2)
90	19.24	104.54	Shut-In(2)
119	34.94	105.12	End Shut-In(2)
120	1791.73	105.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Sit OCM	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&MPet.
731 N. Weber St. Ste. 200
Colorado Springs, CO
80903
ATTN: Don Rider

Sand Creek #2
4 8 23 Graham KS
Job Ticket: 32762 **DST#: 5**
Test Start: 2008.09.11 @ 16:17:28

Tool Information

Drill Pipe:	Length: 3618.00 ft	Diameter: 3.82 inches	Volume: 51.29 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 51.90 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3760.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	43.00 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			3738.00	
Shut In Tool	5.00			3743.00	
Hydraulic tool	5.00			3748.00	
Safety Joint	3.00			3751.00	
Packer	4.00			3755.00	23.00 Bottom Of Top Packer
Packer	5.00			3760.00	
Stubb	1.00			3761.00	
Perforations	2.00			3763.00	
Recorder	0.00	8319	Inside	3763.00	
Recorder	0.00	8369	Inside	3763.00	
Perforations	14.00			3777.00	
Bullnose	3.00			3780.00	20.00 Bottom Packers & Anchor

Total Tool Length: 43.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

H&M Pet.
731 N. Weber St. Ste. 200
Colorado Springs, CO
80903
ATTN: Don Rider

Sand Creek #2
4 8 23 Graham KS
Job Ticket: 32762 **DST#: 5**
Test Start: 2008.09.11 @ 16:17:28

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: 6.37 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 800.00 ppm			
Filter Cake: inches			

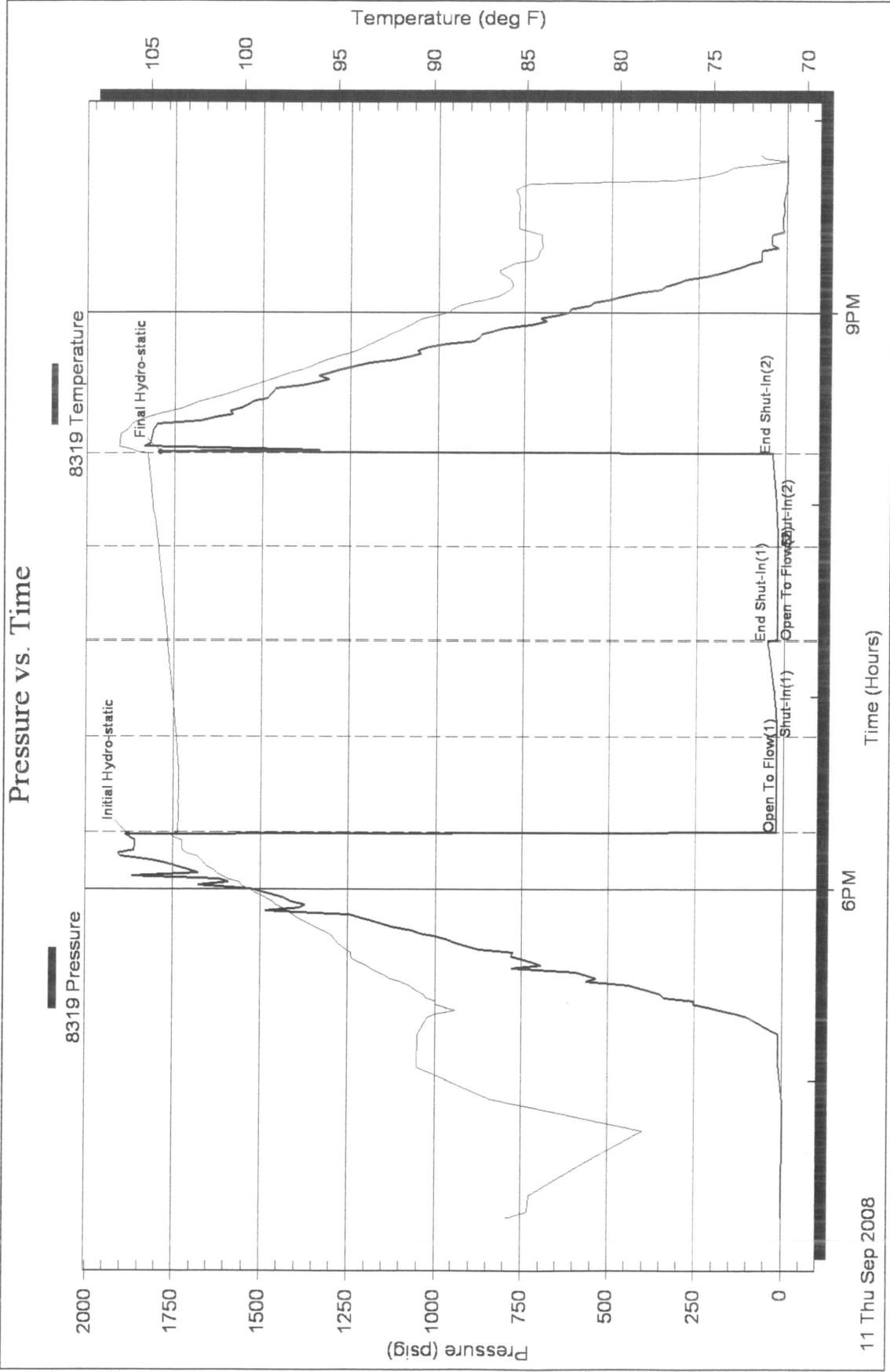
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Slt OCM	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



11 Thu Sep 2008

6PM

9PM