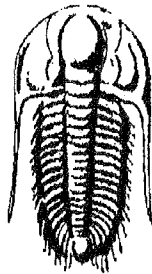


15-101-22166

6-19s-29w

IND



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt**

PO Box 47
Clear Bend, KS 67530

CONFIDENTIAL
JUL 28 2009
KCB

ATTN: Tom Funk

6 19s 29w Lane KS

Marlene # 2 'A'

Start Date: 2009.04.28 @ 02:50:00

End Date: 2009.04.28 @ 09:16:12

Job Ticket #: 34246

DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Printed: 2009.05.05 @ 12:23:28 Page 1

Carmen Schmitt

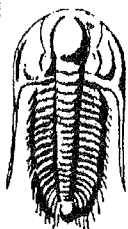
Marlene # 2

6 19s 29w Lane KS

DST # 1

"H"

2009.04.28



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt

Marlene # 2

PO Box 47
Great Bend, KS 67530

6 19s 29w Lane KS

Job Ticket: 34246

DST#: 1

ATTN: Tom Funk

Test Start: 2009.04.28 @ 02:50:00

GENERAL INFORMATION:

Formation: "H"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:31:12

Time Test Ended: 09:16:12

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: 4117.00 ft (KB) To 4146.00 ft (KB) (TVD)

Total Depth: 4146.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2850.00 ft (KB)

2845.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8351

Inside

Press@RunDepth: 222.22 psig @ 4121.00 ft (KB)

Start Date: 2009.04.28

End Date:

2009.04.28

Start Time: 02:50:01

End Time:

09:16:11

Capacity: 7000.00 psig

Last Calib.: 2009.04.28

Time On Btm: 2009.04.28 @ 04:31:00

Time Off Btm: 2009.04.28 @ 07:03:30

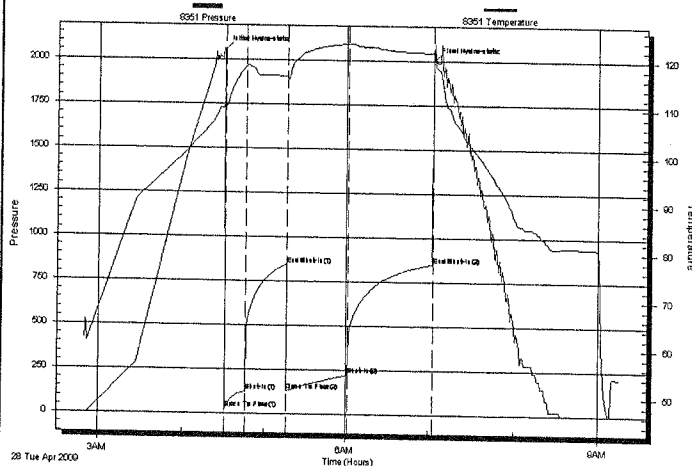
TEST COMMENT: IF: B.O.B. @ 9 1/2 min.

ISI: 1 1/2" Return.

FF: B.O.B. @ 11min.

FSI: 1" Return.

Pressure vs. Time



PRESSURE SUMMARY

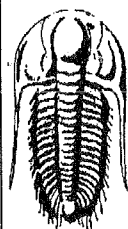
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2050.93	111.29	Initial Hydro-static
1	26.82	110.78	Open To Flow (1)
16	125.12	118.60	Shut-In (1)
46	844.57	116.65	End Shut-In (1)
46	133.43	116.40	Open To Flow (2)
91	222.22	123.41	Shut-In (2)
152	849.42	121.63	End Shut-In (2)
153	1996.27	122.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GOCM 10%G 40%O 50%M	0.30
186.00	GMCO 40%G 45%O 15%M	0.91
310.00	GO 30%G 70%O	4.35
0.00	248 Feet GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt

Marlene # 2

PO Box 47
Great Bend, KS 67530

6 19s 29w Lane KS

Job Ticket: 34246

DST#: 1

ATTN: Tom Funk

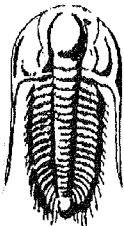
Test Start: 2009.04.28 @ 02:50:00

Tool Information

Drill Pipe:	Length: 3856.00 ft	Diameter: 3.80 inches	Volume: 54.09 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose:	65000.00 lb
		Total Volume:	55.31 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	4117.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	29.00 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
Change Over Sub	1.00			4097.00	
Shut In Tool	5.00			4102.00	
Hydraulic tool	5.00			4107.00	
Packer	5.00			4112.00	21.00 Bottom Of Top Packer
Packer	5.00			4117.00	
Stubb	1.00			4118.00	
Perforations	3.00			4121.00	
Recorder	0.00	8359	Inside	4121.00	
Recorder	0.00	8351	Inside	4121.00	
Perforations	20.00			4141.00	
Bullnose	5.00			4146.00	29.00 Bottom Packers & Anchor
Total Tool Length:		50.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt

Marlene # 2

PO Box 47
Great Bend, KS 67530

6 19s 29w Lane KS

Job Ticket: 34246

DST#: 1

ATTN: Tom Funk

Test Start: 2009.04.28 @ 02:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 9.93 in³

Resistivity: 0.00 ohm.m

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

35 deg API

Water Salinity:

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GOCM 10%G 40%O 50%M	0.305
186.00	GMCO 40%G 45%O 15%M	0.915
310.00	GO 30%G 70%O	4.348
0.00	248 Feet GIP	0.000

Total Length: 558.00 ft

Total Volume: 5.568 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

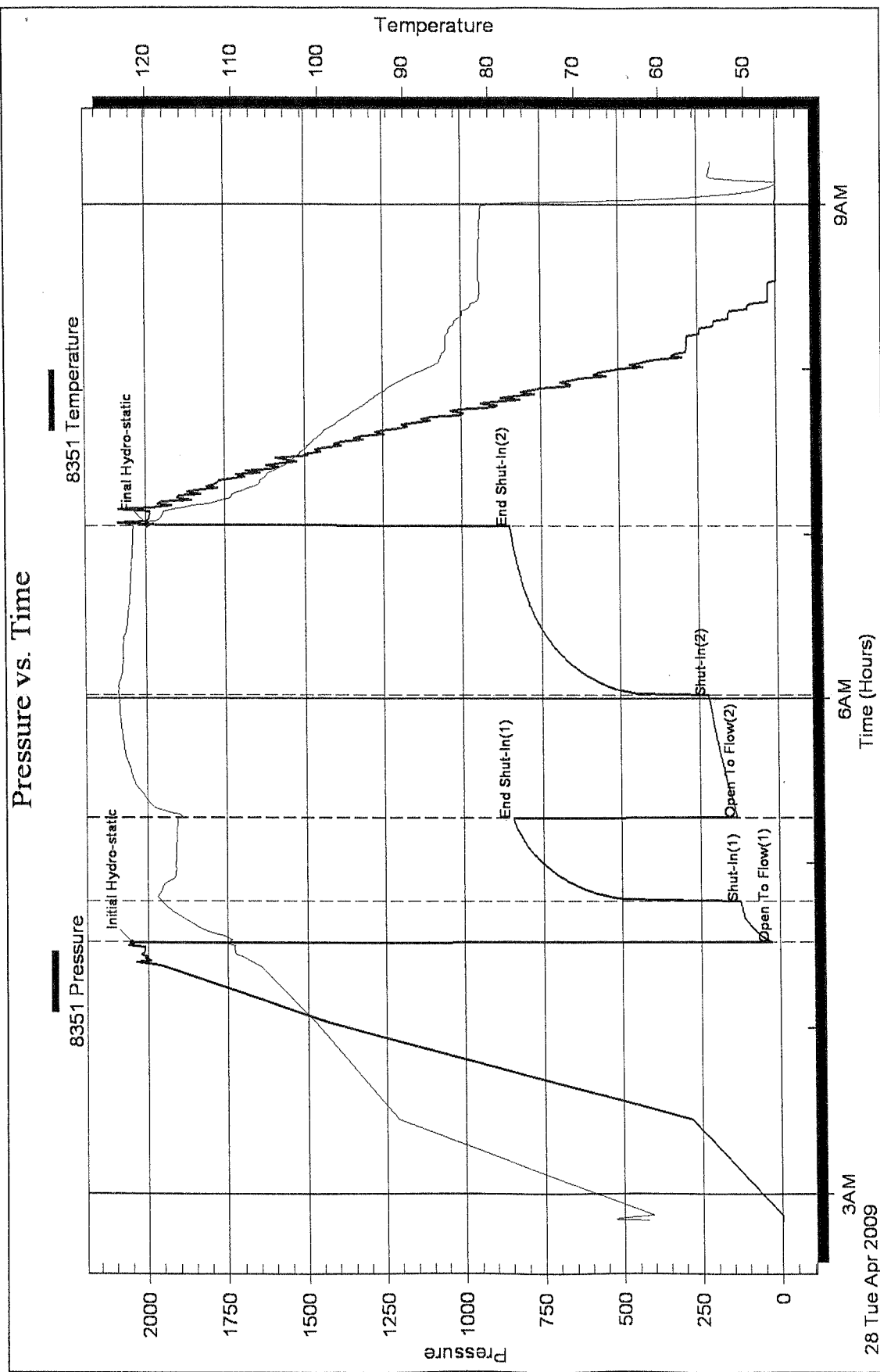
Serial #:

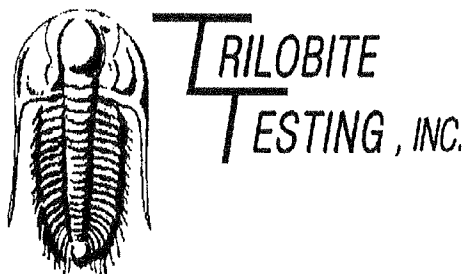
Laboratory Name:

Laboratory Location:

Recovery Comments: API: 35 @ 60 Degrees F = 35.

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt**

PO Box 47
Great Bend, KS 67530

ATTN: Tom Funk

6 19s 29w Lane KS

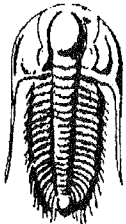
Marlene # 2

Start Date: 2009.04.28 @ 16:15:00

End Date: 2009.04.28 @ 22:25:30

Job Ticket #: 34247 DST #: 2

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt

PO Box 47
Great Bend, KS 67530

ATTN: Tom Funk

Marlene # 2

6 19s 29w Lane KS

Job Ticket: 34247

DST#: 2

Test Start: 2009.04.28 @ 16:15:00

GENERAL INFORMATION:

Formation: "I"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:53:50

Time Test Ended: 22:25:30

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: 4164.00 ft (KB) To 4193.00 ft (KB) (TVD)

Total Depth: 4193.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2850.00 ft (KB)

2845.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8359

Inside

Press@RunDepth: 109.56 psig @ 4168.00 ft (KB)

Start Date: 2009.04.28

End Date: 2009.04.28

Start Time: 16:15:05

End Time: 22:25:29

Capacity: 7000.00 psig

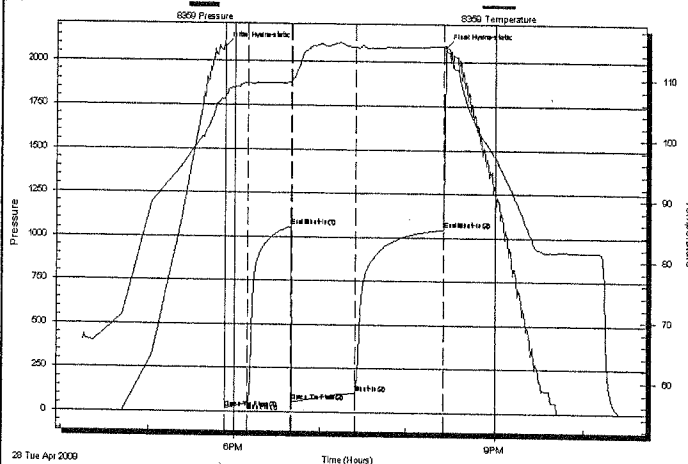
Last Calib.: 2009.04.28

Time On Btm: 2009.04.28 @ 17:53:40

Time Off Btm: 2009.04.28 @ 20:26:30

TEST COMMENT: IF: 4" Blow.
ISI: No return.
FF: B.O.B. @ 40 min.
FSI: Surface return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2084.85	106.90	Initial Hydro-static
1	18.61	106.97	Open To Flow (1)
16	49.22	109.29	Shut-In (1)
46	1056.75	109.38	End Shut-In (1)
47	58.15	109.94	Open To Flow (2)
91	109.56	115.29	Shut-In (2)
152	1045.58	115.42	End Shut-In (2)
153	2086.06	115.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GOCM 10%G 10%O 80%M	0.30
62.00	GMCO 10%G 35%M 55%O	0.30
136.00	GO 25%G 75%O	0.78
0.00	112 Feet GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt

Marlene # 2

PO Box 47
Great Bend, KS 67530

6 19s 29w Lane KS

Job Ticket: 34247

DST#: 2

ATTN: Tom Funk

Test Start: 2009.04.28 @ 16:15:00

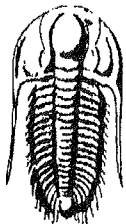
Tool Information

Drill Pipe:	Length: 3918.00 ft	Diameter: 3.80 inches	Volume: 54.96 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 56.18 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	4164.00 ft			Final	49000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	29.00 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
Change Over Sub	1.00			4144.00	
Shut In Tool	5.00			4149.00	
Hydraulic tool	5.00			4154.00	
Packer	5.00			4159.00	21.00 Bottom Of Top Packer
Packer	5.00			4164.00	
Stubb	1.00			4165.00	
Perforations	3.00			4168.00	
Recorder	0.00	8359	Inside	4168.00	
Recorder	0.00	8351	Inside	4168.00	
Perforations	20.00			4188.00	
Bullnose	5.00			4193.00	29.00 Bottom Packers & Anchor

Total Tool Length: 50.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt

Marlene # 2

PO Box 47
Great Bend, KS 67530

6 19s 29w Lane KS

Job Ticket: 34247

DST#: 2

ATTN: Tom Funk

Test Start: 2009.04.28 @ 16:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 42.00 sec/qt

Water Loss: 9.14 in³

Resistivity: 0.00 ohm.m

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

36 deg API

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GOCM 10%G 10%O 80%M	0.305
62.00	GMCO 10%G 35%M 55%O	0.305
136.00	GO 25%G 75%O	0.778
0.00	112 Feet GIP	0.000

Total Length: 260.00 ft

Total Volume: 1.388 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 36 @ 60 Degrees F = 36.

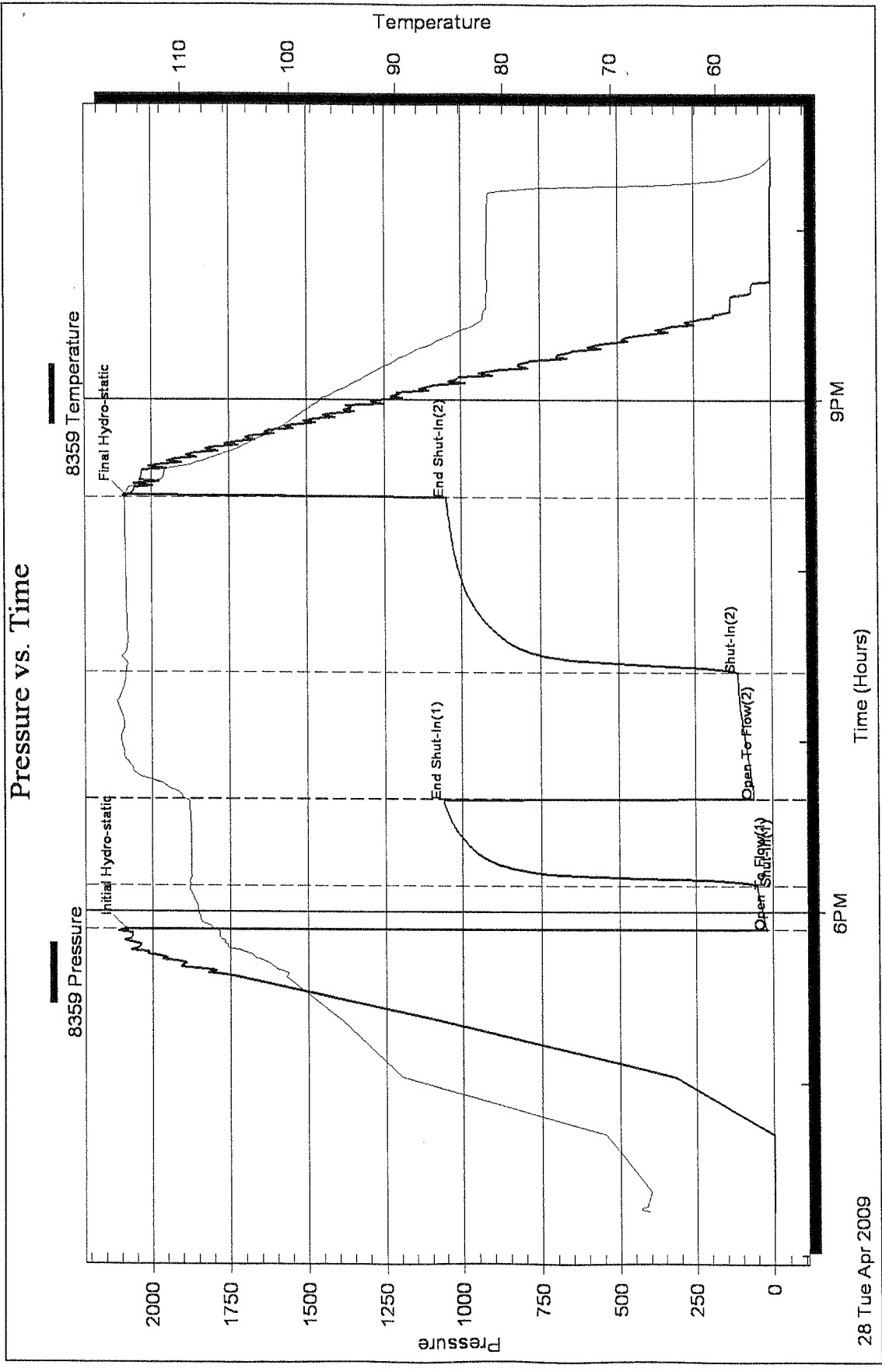
DST Test Number: 2

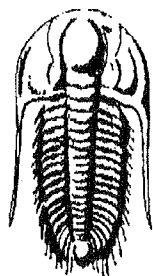
6 19s 29w Lane KS

Inside Carmen Schmitt

Serial #: 8359

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt**

PO Box 47
Great Bend, KS 67530

ATTN: Tom Funk

6 19s 29w Lane KS

Marlene # 2

Start Date: 2009.04.29 @ 03:58:00

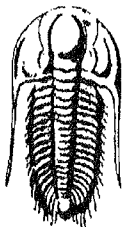
End Date: 2009.04.29 @ 09:23:30

Job Ticket #: 34248 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmitt

PO Box 47
Great Bend, KS 67530

ATTN: Tom Funk

Marlene # 2

6 19s 29w Lane KS

Job Ticket: 34248

DST#: 3

Test Start: 2009.04.29 @ 03:58:00

GENERAL INFORMATION:

Formation: "J"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:49:40

Time Test Ended: 09:23:30

Interval: 4196.00 ft (KB) To 4213.00 ft (KB) (TVD)

Total Depth: 4213.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Reference Elevations: 2850.00 ft (KB)

2845.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8359

Inside

Press@RunDepth: 82.10 psig @ 4198.00 ft (KB)

Start Date: 2009.04.29

End Date: 2009.04.29

Start Time: 03:58:05

End Time: 09:23:29

Capacity: 7000.00 psig

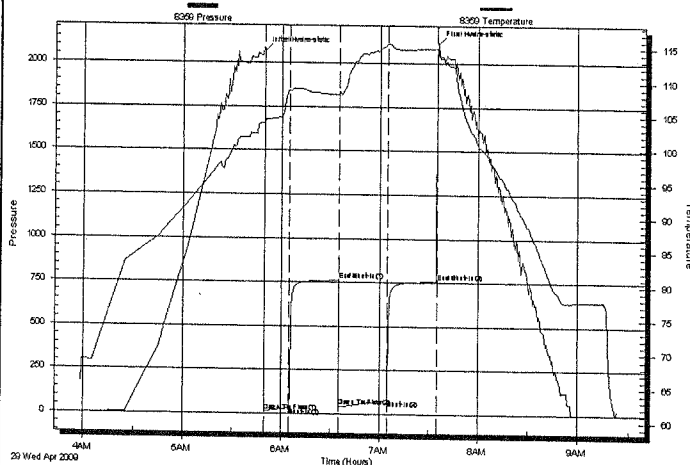
Last Calib.: 2009.04.29

Time On Btm: 2009.04.29 @ 05:49:30

Time Off Btm: 2009.04.29 @ 07:35:50

TEST COMMENT: IF: 2" Blow.
IS: No return.
FF: 3" Blow.
FSI: No return.

Pressure vs. Time



PRESSURE SUMMARY

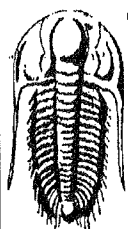
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2066.95	104.03	Initial Hydro-static
1	13.65	104.06	Open To Flow (1)
15	34.73	108.69	Shut-In(1)
46	760.16	108.11	End Shut-In(1)
46	43.77	108.52	Open To Flow(2)
76	82.10	115.63	Shut-In(2)
106	756.43	114.95	End Shut-In(2)
107	2110.61	114.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	OWCM 5%O 40%W 55%M	0.30
78.00	OCM 5%O 95%M	0.38
0.00	No GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt

Marlene # 2

PO Box 47
Great Bend, KS 67530

6 19s 29w Lane KS

Job Ticket: 34248

DST#: 3

ATTN: Tom Funk

Test Start: 2009.04.29 @ 03:58:00

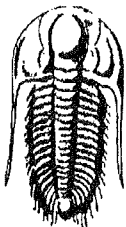
Tool Information

Drill Pipe:	Length: 3950.00 ft	Diameter: 3.80 inches	Volume: 55.41 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose:	60000.00 lb
			Total Volume: 56.63 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	4196.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	17.00 ft				
Tool Length:	37.00 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			4177.00	
Shut In Tool	5.00			4182.00	
Hydraulic tool	5.00			4187.00	
Packer	5.00			4192.00	20.00 Bottom Of Top Packer
Packer	4.00			4196.00	
Stubb	1.00			4197.00	
Perforations	1.00			4198.00	
Recorder	0.00	8359	Inside	4198.00	
Recorder	0.00	8351	Inside	4198.00	
Perforations	10.00			4208.00	
Bullnose	5.00			4213.00	17.00 Bottom Packers & Anchor

Total Tool Length: 37.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt

Marlene # 2

PO Box 47
Great Bend, KS 67530

6 19s 29w Lane KS

Job Ticket: 34248

DST#: 3

ATTN: Tom Funk

Test Start: 2009.04.29 @ 03:58:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 9.15 in³

Resistivity: 0.00 ohm.m

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

0 deg API

Water Salinity:

18000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	OWCM 5%O 40%W 55%M	0.305
78.00	OCM 5%O 95%M	0.384
0.00	No GIP	0.000

Total Length: 140.00 ft Total Volume: 0.689 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

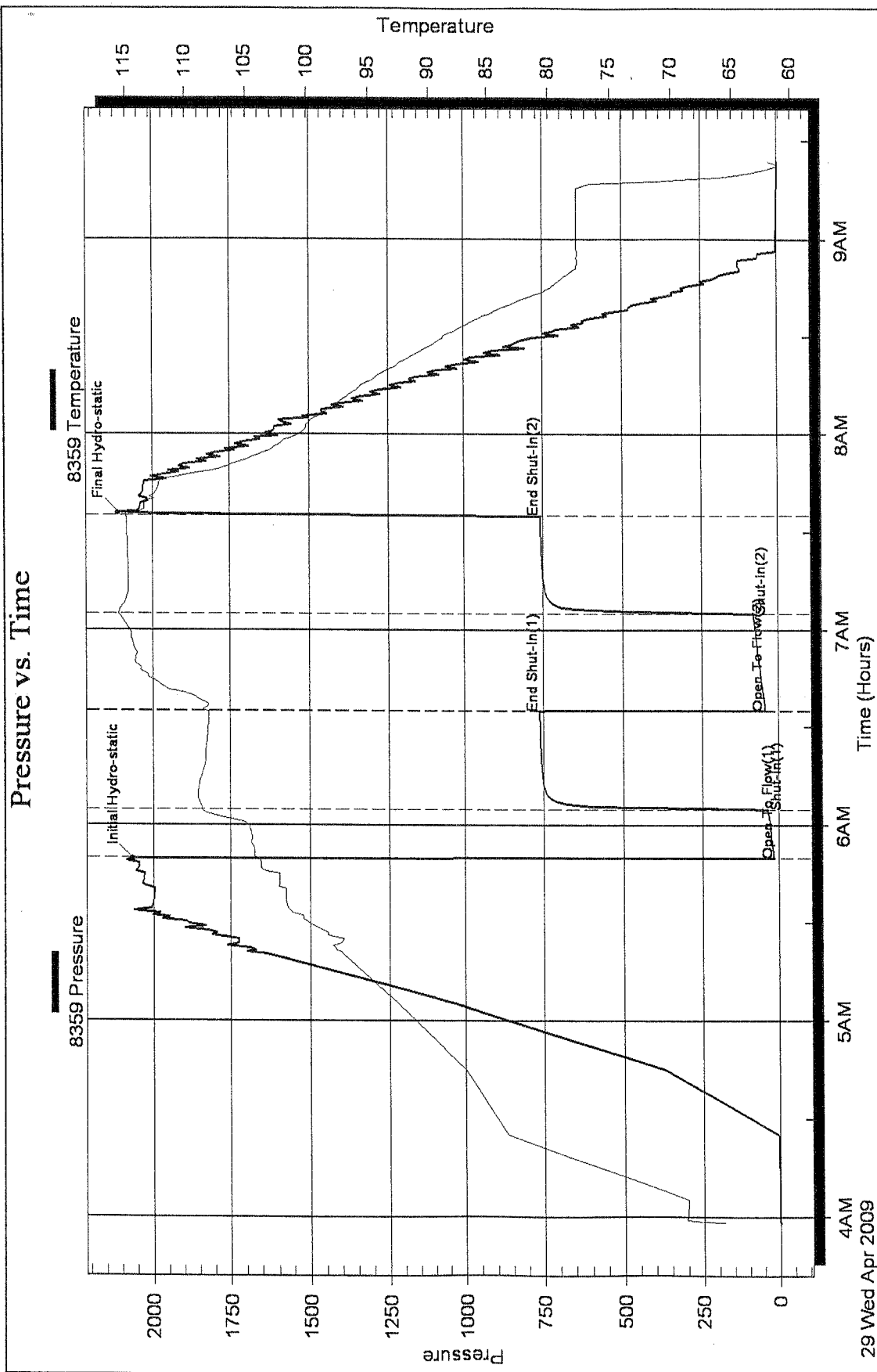
Serial #:

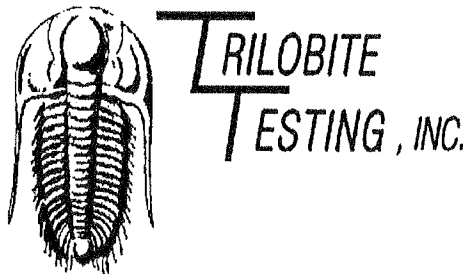
Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .450 @ 60 Degrees F = 18000 chlorides.

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt**

PO Box 47
Great Bend, KS 67530

ATTN: Tom Funk

6 19s 29w Lane KS

Marlene # 2

Start Date: 2009.04.29 @ 16:05:00

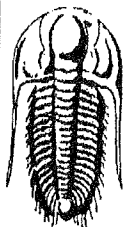
End Date: 2009.04.29 @ 22:39:39

Job Ticket #: 34249 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Carmen Schmitt

PO Box 47
Great Bend, KS 67530

ATTN: Tom Funk

Marlene # 2

6 19s 29w Lane KS

Job Ticket: 34249

DST#: 4

Test Start: 2009.04.29 @ 16:05:00

GENERAL INFORMATION:

Formation: "K"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:46:50

Time Test Ended: 22:39:39

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: 4228.00 ft (KB) To 4257.00 ft (KB) (TVD)

Total Depth: 4257.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2850.00 ft (KB)

2845.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8359

Inside

Press@RunDepth: 391.53 psig @ 4232.00 ft (KB)

Start Date: 2009.04.29

End Date:

2009.04.29

Start Time: 16:05:05

End Time:

22:39:40

Capacity: 7000.00 psig

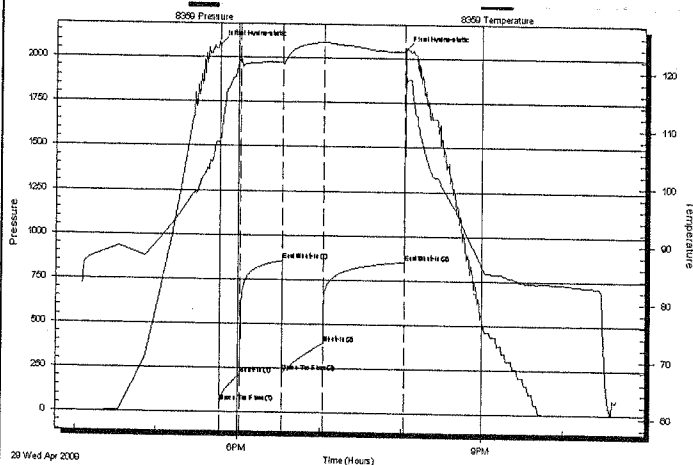
Last Calib.: 2009.04.29

Time On Btm: 2009.04.29 @ 17:46:30

Time Off Btm: 2009.04.29 @ 20:03:10

TEST COMMENT: IF: B.O.B. @ 4 min.
IS: 3 1/2" Return.
FF: B.O.B. @ 5 min.
FSI: Surface return died @ 28 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2072.94	107.77	Initial Hydro-static
1	54.09	108.15	Open To Flow (1)
15	213.28	122.07	Shut-In (1)
46	854.44	121.54	End Shut-In (1)
46	228.80	121.72	Open To Flow (2)
76	391.53	125.08	Shut-In (2)
136	853.43	123.46	End Shut-In (2)
137	2049.84	120.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GOWCM 10%G 10%O 25%W 55%M	0.61
186.00	GWMCO 10%G 10%W 20%M 60%O	1.48
310.00	GMCO 12%G 10%M 78%O	4.35
320.00	GO 20%G 80%O	4.49
0.00	175 Feet GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt

Marlene # 2

PO Box 47
Great Bend, KS 67530

6 19s 29w Lane KS

Job Ticket: 34249

DST#: 4

ATTN: Tom Funk

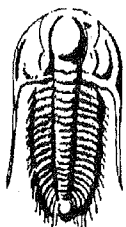
Test Start: 2009.04.29 @ 16:05:00

Tool Information

Drill Pipe:	Length: 3983.00 ft	Diameter: 3.80 inches	Volume: 55.87 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose:	80000.00 lb
		Total Volume:	57.09 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	4228.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	29.00 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
Change Over Sub	1.00			4209.00	
Shut In Tool	5.00			4214.00	
Hydraulic tool	5.00			4219.00	
Packer	5.00			4224.00	20.00 Bottom Of Top Packer
Packer	4.00			4228.00	
Stubb	1.00			4229.00	
Perforations	3.00			4232.00	
Recorder	0.00	8359	Inside	4232.00	
Recorder	0.00	8351	Inside	4232.00	
Perforations	20.00			4252.00	
Bullnose	5.00			4257.00	29.00 Bottom Packers & Anchor

Total Tool Length: 49.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt

Marlene # 2

PO Box 47
Great Bend, KS 67530

6 19s 29w Lane KS

Job Ticket: 34249

DST#: 4

ATTN: Tom Funk

Test Start: 2009.04.29 @ 16:05:00

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:

18000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.96 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	GOWCM 10%G 10%O 25%W 55%M	0.610
186.00	GVMCO 10%G 10%W 20%M 60%O	1.480
310.00	GMCO 12%G 10%M 78%O	4.348
320.00	GO 20%G 80%O	4.489
0.00	175 Feet GIP	0.000

Total Length: 940.00 ft

Total Volume: 10.927 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

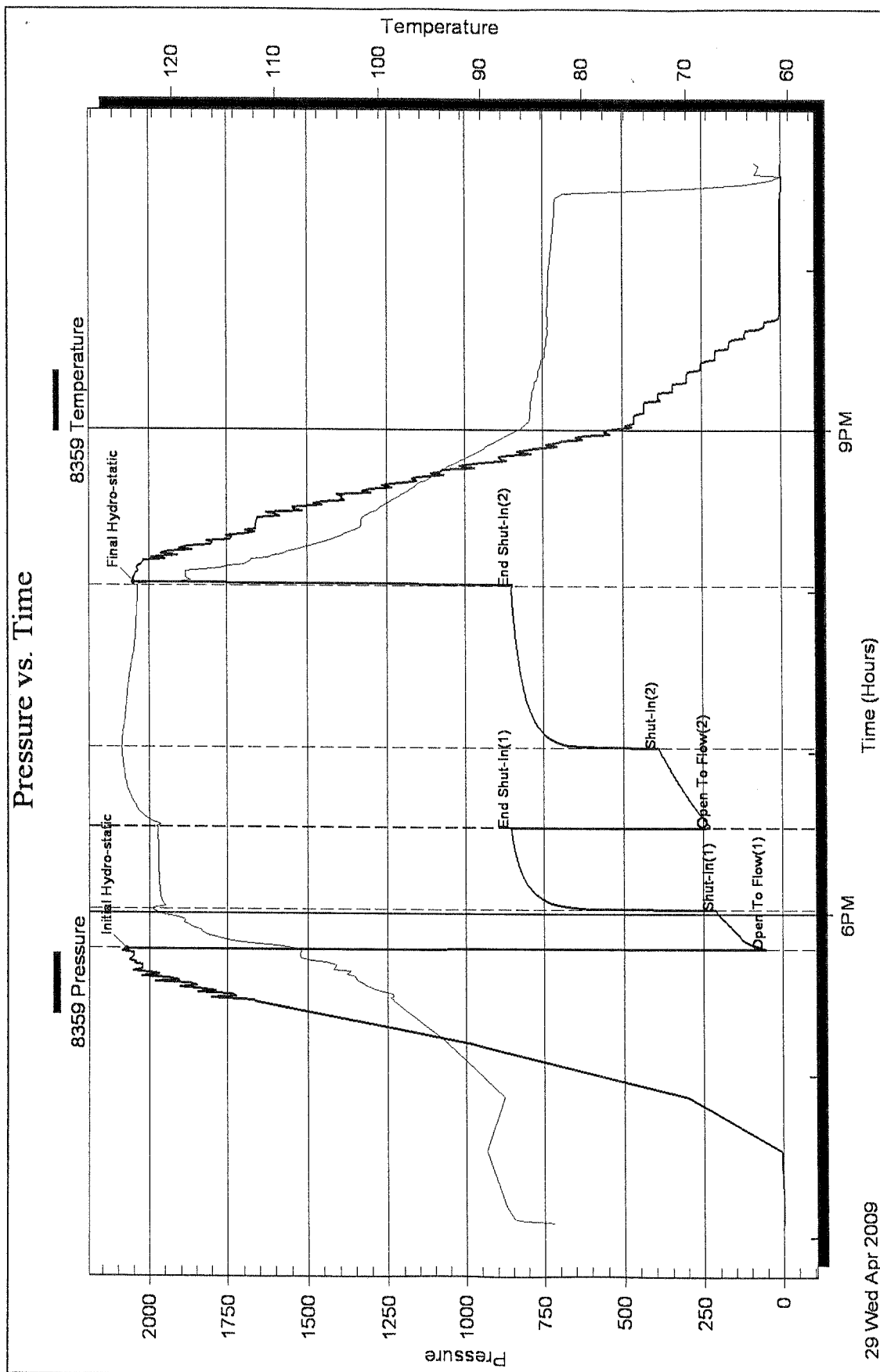
Laboratory Name:

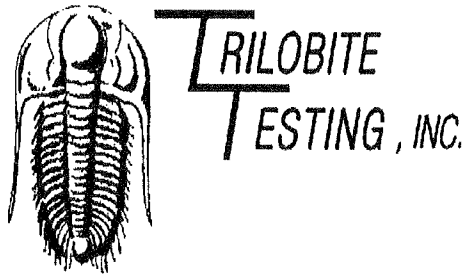
Laboratory Location:

Recovery Comments: API: 29 @ 70 Degrees F = 28

RW: .410 @ 65 Degrees F = 18000 chlorides.

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt**
PO Box 47
Great Bend, KS 67530

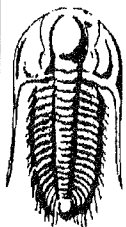
ATTN: Tom Funk

6 19s 29w Lane KS

Marlene # 2

Start Date: 2009.04.30 @ 05:26:00
End Date: 2009.04.30 @ 11:31:30
Job Ticket #: 34250 DST #: 5

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Carmen Schmitt
PO Box 47
Great Bend, KS 67530
ATTN: Tom Funk

Marlene # 2
6 19s 29w Lane KS
Job Ticket: 34250 **DST#: 5**
Test Start: 2009.04.30 @ 05:26:00

GENERAL INFORMATION:

Formation: "L"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:18:00
Time Test Ended: 11:31:30

Test Type: Conventional Bottom Hole
Tester: Chuck Smith
Unit No: 37

Interval: 4267.00 ft (KB) To 4300.00 ft (KB) (TVD)
Total Depth: 4300.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2850.00 ft (KB)
2845.00 ft (CF)
KB to GR/CF: 5.00 ft

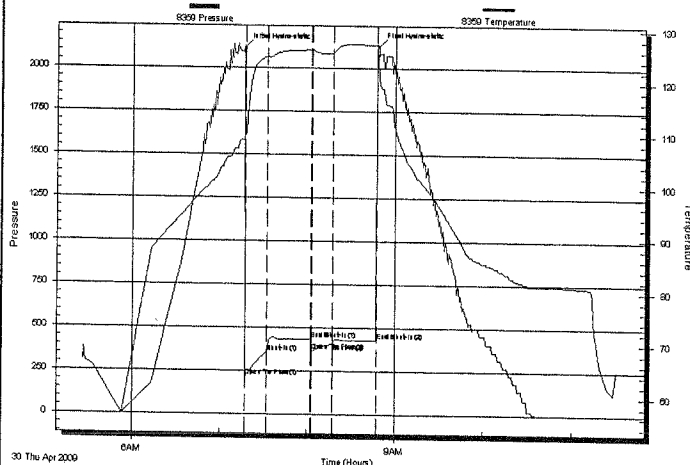
Serial #: 8359 Inside

Press@RunDepth: 410.44 psig @ 4275.00 ft (KB)
Start Date: 2009.04.30 End Date: 2009.04.30
Start Time: 05:26:05 End Time: 11:31:29

Capacity: 7000.00 psig
Last Calib.: 2009.04.30
Time On Btm: 2009.04.30 @ 07:17:20
Time Off Btm: 2009.04.30 @ 08:49:20

TEST COMMENT: IF: B.O.B. @ 1 1/2 min.
IS: B.O.B. @ 14 min.
FF: B.O.B. @ 5 min.
FSI: 3" Return.

Pressure vs. Time



PRESSURE SUMMARY

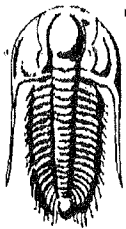
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2114.37	109.58	Initial Hydro-static
1	219.26	110.10	Open To Flow (1)
16	356.18	124.80	Shut-In(1)
46	432.36	126.12	End Shut-In(1)
46	365.82	126.16	Open To Flow (2)
61	410.44	125.71	Shut-In(2)
91	430.20	127.01	End Shut-In(2)
92	2124.53	121.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GOCM 20%G 15%O 65%WEmulsion	0.61
124.00	GMCO 25%G 10%M 65%O	0.61
186.00	GMCO 30%G 25%M 45%O	2.61
620.00	GO 30%G 70%O	8.70
0.00	434 Feet GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt

Marlene # 2

PO Box 47
Great Bend, KS 67530

6 19s 29w Lane KS

Job Ticket: 34250

DST#: 5

ATTN: Tom Funk

Test Start: 2009.04.30 @ 05:26:00

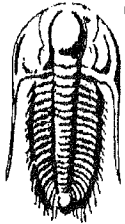
Tool Information

Drill Pipe:	Length: 4010.00 ft	Diameter: 3.80 inches	Volume: 56.25 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 57.47 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	4267.00 ft			Final	51000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	33.00 ft				
Tool Length:	53.00 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			4248.00	
Shut In Tool	5.00			4253.00	
Hydraulic tool	5.00			4258.00	
Packer	5.00			4263.00	20.00 Bottom Of Top Packer
Packer	4.00			4267.00	
Stubb	1.00			4268.00	
Perforations	7.00			4275.00	
Recorder	0.00	8359	Inside	4275.00	
Recorder	0.00	8351	Inside	4275.00	
Perforations	20.00			4295.00	
Bullnose	5.00			4300.00	33.00 Bottom Packers & Anchor

Total Tool Length: 53.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt

Marlene # 2

PO Box 47
Great Bend, KS 67530

6 19s 29w Lane KS

Job Ticket: 34250

DST#: 5

ATTN: Tom Funk

Test Start: 2009.04.30 @ 05:26:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 7.97 in³

Resistivity: 0.00 ohm.m

Salinity: 2100.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

30 deg API

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	GOCM 20%G 15%O 65%M/Emulsion	0.610
124.00	GMCO 25%G 10%M 65%O	0.610
186.00	GMCO 30%G 25%M 45%O	2.609
620.00	GO 30%G 70%O	8.697
0.00	434 Feet GIP	0.000

Total Length: 1054.00 ft

Total Volume: 12.526 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

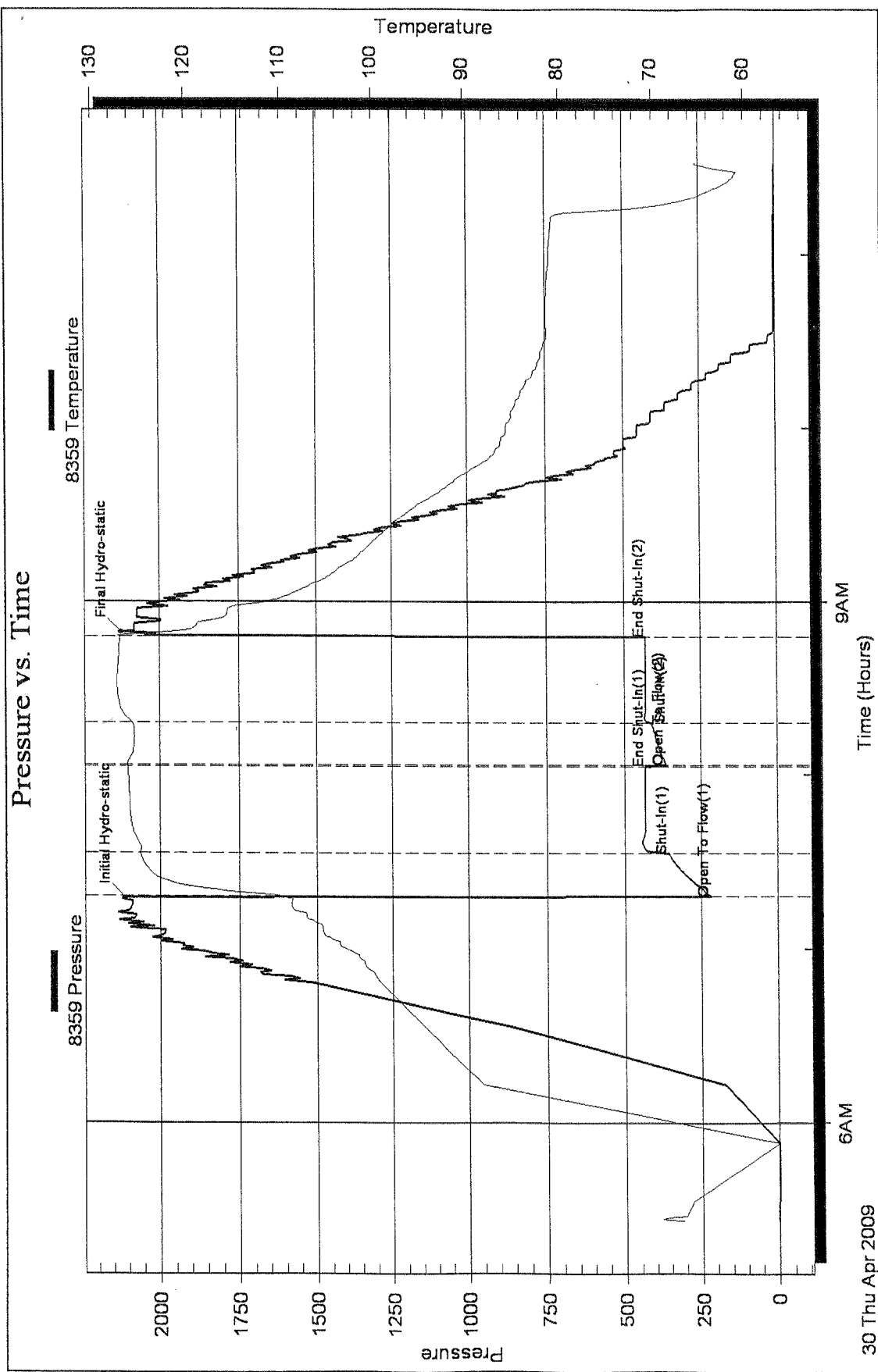
Serial #:

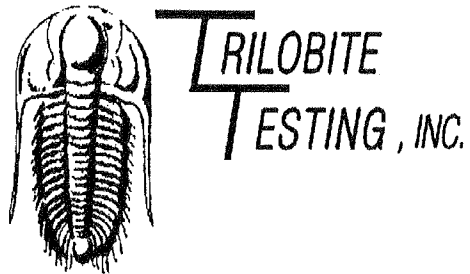
Laboratory Name:

Laboratory Location:

Recovery Comments: API: 31 @ 70 Degrees F = 30.

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt**

PO Box 47
Great Bend, KS 67530

ATTN: Tom Funk

6 19s 29w Lane KS

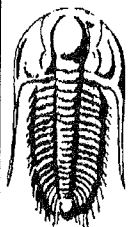
Marlene # 2

Start Date: 2009.04.30 @ 22:14:00

End Date: 2009.05.01 @ 04:03:39

Job Ticket #: 34577 DST #: 6

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Carmen Schmitt

Marlene # 2

PO Box 47
Great Bend, KS 67530

6 19s 29w Lane KS

Job Ticket: 34577

DST#: 6

ATTN: Tom Funk

Test Start: 2009.04.30 @ 22:14:00

GENERAL INFORMATION:

Formation: **Altamont 'B'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:58:30

Time Test Ended: 04:03:39

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **4338.00 ft (KB) To 4410.00 ft (KB) (TVD)**

Total Depth: 4410.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2850.00 ft (KB)

2845.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8359

Inside

Press@RunDepth: 333.20 psig @ 4341.00 ft (KB)

Start Date: 2009.04.30

End Date:

2009.05.01

Start Time: 22:14:05

End Time:

04:03:40

Capacity: 7000.00 psig

Last Calib.: 2009.05.01

Time On Btm: 2009.04.30 @ 23:58:20

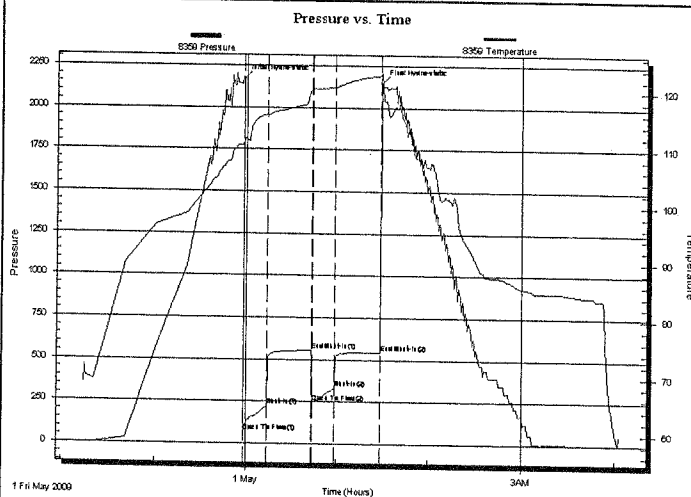
Time Off Btm: 2009.05.01 @ 01:29:30

TEST COMMENT: IF: B.O.B. @ 2 3/4 min.

IS: B.O.B. @ 4 min.

FF: B.O.B. @ 3 min.

FS: B.O.B. @ 7 min.



PRESSURE SUMMARY

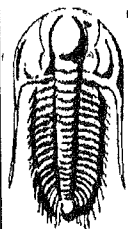
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2166.99	111.41	Initial Hydro-static
1	71.66	110.99	Open To Flow (1)
16	225.27	116.02	Shut-In(1)
46	556.64	120.40	End Shut-In(1)
46	248.29	120.62	Open To Flow (2)
61	333.20	120.85	Shut-In(2)
91	547.12	122.92	End Shut-In(2)
92	2143.61	123.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GOCM 15%G 40%O 45%MEmulsion	0.61
310.00	GMCO 35%G 47%O 18%M	3.22
310.00	GO 60%G 40%O	4.35
72.00	GO 15%G 85%O	1.01
0.00	1054 Feet GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt

Marlene # 2

PO Box 47
Great Bend, KS 67530

6 19s 29w Lane KS

Job Ticket: 34577

DST#: 6

ATTN: Tom Funk

Test Start: 2009.04.30 @ 22:14:00

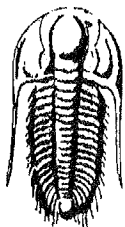
Tool Information

Drill Pipe:	Length: 4079.00 ft	Diameter: 3.80 inches	Volume: 57.22 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose:	80000.00 lb
			Total Volume: 58.44 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	4338.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	72.00 ft				
Tool Length:	92.00 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			4319.00	
Shut In Tool	5.00			4324.00	
Hydraulic tool	5.00			4329.00	
Packer	5.00			4334.00	20.00 Bottom Of Top Packer
Packer	4.00			4338.00	
Stubb	1.00			4339.00	
Perforations	2.00			4341.00	
Recorder	0.00	8359	Inside	4341.00	
Recorder	0.00	8351	Inside	4341.00	
Change Over Sub	1.00			4342.00	
Drill Pipe	62.00			4404.00	
Change Over Sub	1.00			4405.00	
Bullnose	5.00			4410.00	72.00 Bottom Packers & Anchor

Total Tool Length: 92.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt

Marlene # 2

PO Box 47
Great Bend, KS 67530

6 19s 29w Lane KS

Job Ticket: 34577

DST#: 6

ATTN: Tom Funk

Test Start: 2009.04.30 @ 22:14:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 7.58 in³

Resistivity: 0.00 ohm.m

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

41 deg API

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	GOCM 15%G 40%O 45%WEmulsion	0.610
310.00	GMCO 35%G 47%O 18%M	3.219
310.00	GO 60%G 40%O	4.348
72.00	GO 15%G 85%O	1.010
0.00	1054 Feet GIP	0.000

Total Length: 816.00 ft

Total Volume: 9.187 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 41 @ 60 Degrees F = 41

Pressure vs. Time

