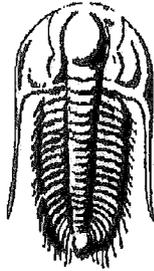


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11-17s-10w

Ind



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Carmen Schmidt**

PO Box 47
Great Bend, Ks 67530

ATTN: Bob Schreiber

11 17 10 EllsworthKS

Petermann #1

Start Date: 2010.04.24 @ 10:21:44

End Date: 2010.04.24 @ 15:12:14

Job Ticket #: 37268 DST #: 1

KCC
MAY 19 2010
CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION

MAY 20 2010

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Carmen Schmidt

Petermann #1

11 17 10 EllsworthKS

DST # 1

LKC

2010.04.24



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schridt
PO Box 47
Great Bend, Ks 67530
ATTN: Bob Schreiber

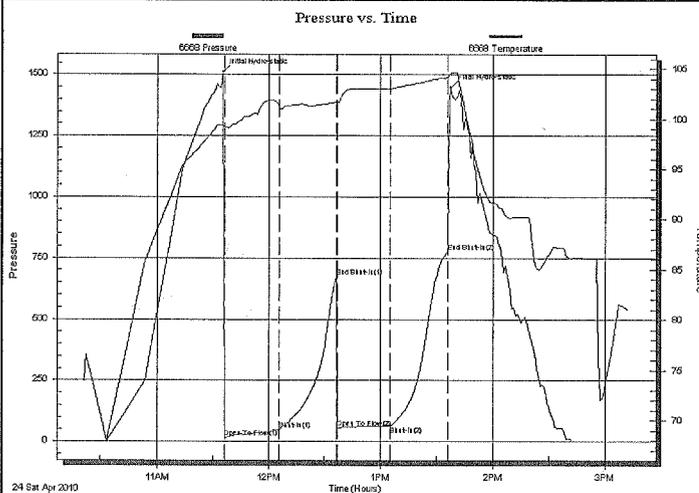
Petermann #1
11 17 10 EllsworthKS
Job Ticket: 37268 **DST#: 1**
Test Start: 2010.04.24 @ 10:21:44

GENERAL INFORMATION:

Formation: **LKC**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole
Time Tool Opened: 11:36:14 Tester: Tyson Flax
Time Test Ended: 15:12:14 Unit No: 44
Interval: 3069.00 ft (KB) To 3144.00 ft (KB) (TVD) Reference Elevations: 1804.00 ft (KB)
Total Depth: 3144.00 ft (KB) (TVD) 1797.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 7.00 ft

Serial #: 6668 Inside
Press@RunDepth: 64.60 psig @ 3073.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.04.24 End Date: 2010.04.24 Last Calib.: 2010.04.24
Start Time: 10:21:45 End Time: 15:12:14 Time On Btm: 2010.04.24 @ 11:35:14
Time Off Btm: 2010.04.24 @ 13:37:44

TEST COMMENT: IFP-BOB in 18 min
ISI-Weak surface blow back died in 5 min
FFP-BOB in 2 min
FSI-Weak blow back built to 1/2" died in 23 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1510.17	99.43	Initial Hydro-static
1	15.08	99.20	Open To Flow (1)
31	46.20	101.19	Shut-In(1)
62	676.26	101.66	End Shut-In(1)
62	56.76	101.61	Open To Flow (2)
90	64.60	103.04	Shut-In(2)
121	777.49	104.12	End Shut-In(2)
123	1447.48	104.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	SOCM 5%O,95%M	0.99
60.00	GMCAO 20%G,40%O,10%W	0.85
0.00	590' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmidt
 PO Box 47
 Great Bend, Ks 67530
 ATTN: Bob Schreiber

Petermann #1
11 17 10 EllsworthKS
 Job Ticket: 37268 **DST#: 1**
 Test Start: 2010.04.24 @ 10:21:44

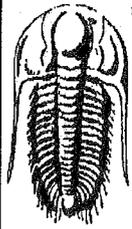
Tool Information

Drill Pipe:	Length: 3064.00 ft	Diameter: 3.82 inches	Volume: 43.43 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 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: 50000.00 lb
			<u>Total Volume: 43.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3069.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	96.00 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			3049.00	
Shut In Tool	5.00			3054.00	
Hydraulic tool	5.00			3059.00	
Packer	5.00			3064.00	21.00 Bottom Of Top Packer
Packer	5.00			3069.00	
Stubb	1.00			3070.00	
Perforations	2.00			3072.00	
Change Over Sub	1.00			3073.00	
Recorder	0.00	6668	Inside	3073.00	
Recorder	0.00	6669	Inside	3073.00	
Blank Spacing	62.00			3135.00	
Change Over Sub	1.00			3136.00	
Perforations	5.00			3141.00	
Bullnose	3.00			3144.00	75.00 Bottom Packers & Anchor

Total Tool Length: 96.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schridt
PO Box 47
Great Bend, Ks 67530
ATTN: Bob Schreiber

Petermann #1
11 17 10 EllsworthKS
Job Ticket: 37268 **DST#: 1**
Test Start: 2010.04.24 @ 10:21:44

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9600.00 ppm			
Filter Cake: inches			

Recovery Information

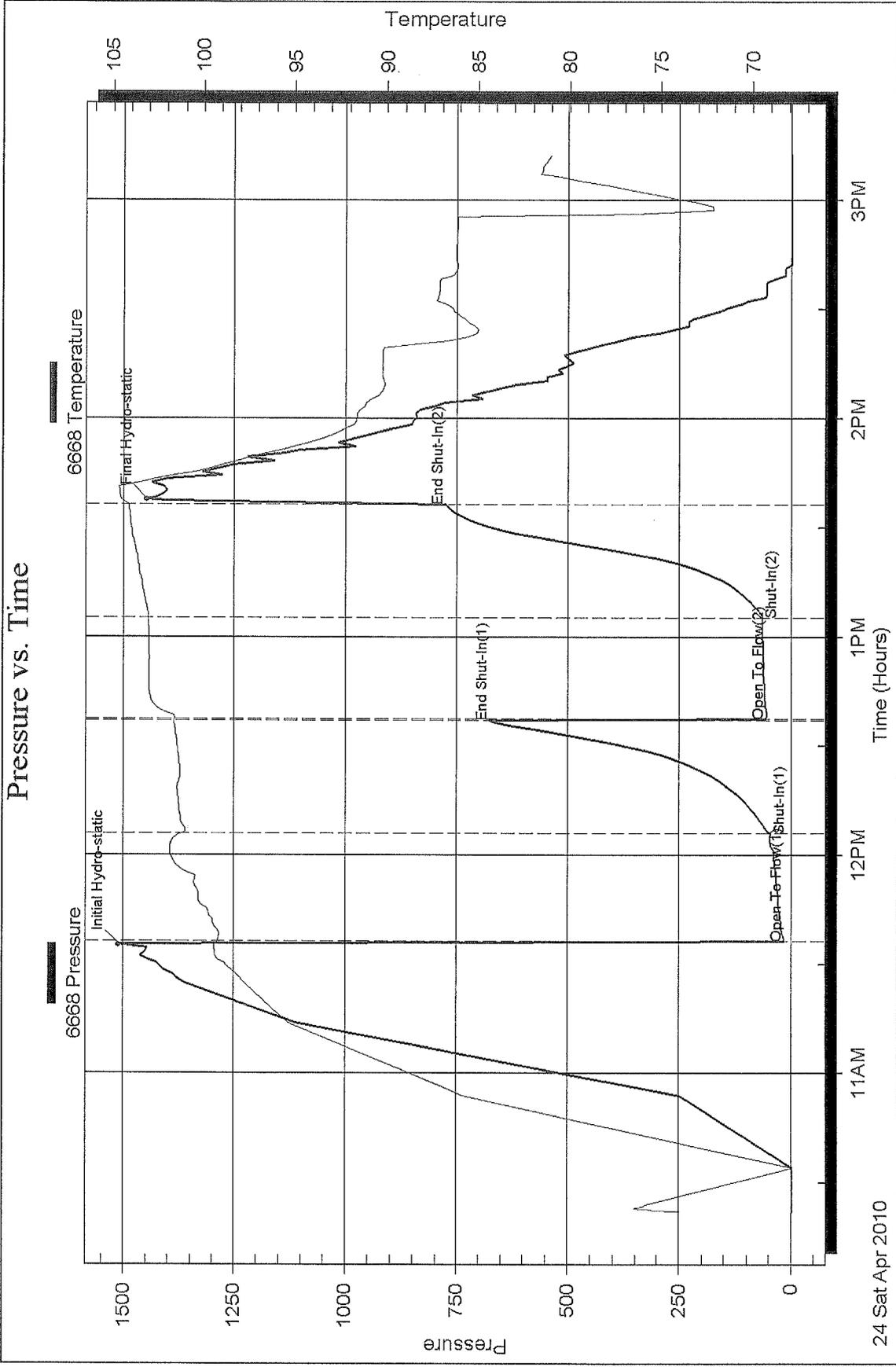
Recovery Table

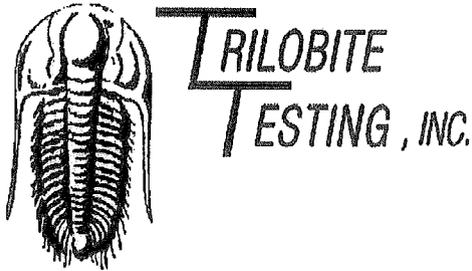
Length ft	Description	Volume bbl
70.00	SOCM 5%O,95%M	0.992
60.00	GMCWO 20%G,40%O,10%W	0.851
0.00	590' GIP	0.000

Total Length: 130.00 ft Total Volume: 1.843 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmidt**

PO Box 47
Great Bend, Ks 67530

ATTN: Bob Schreiber

11 17 10 EllsworthKS

Petermann #1

Start Date: 2010.04.25 @ 04:15:09

End Date: 2010.04.25 @ 10:05:09

Job Ticket #: 37269 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Carmen Schmidt

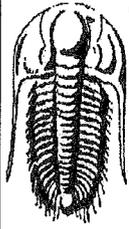
Petermann #1

11 17 10 EllsworthKS

DST # 2

Arbuckle

2010.04.25



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmidt
 PO Box 47
 Great Bend, Ks 67530
 ATTN: Bob Schreiber

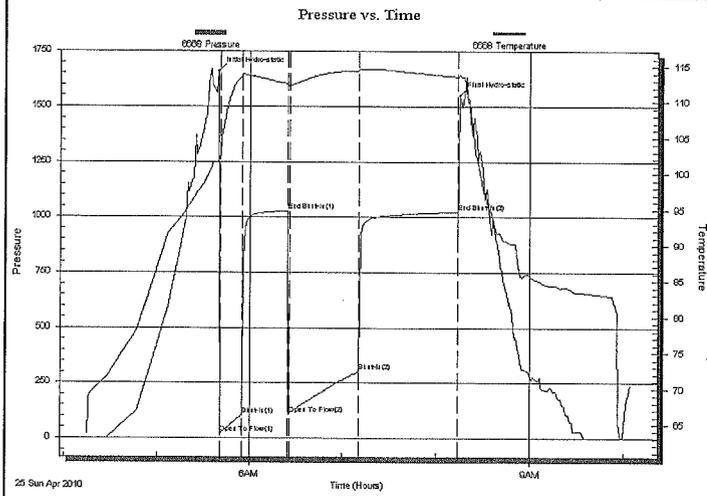
Petermann #1
11 17 10 EllsworthKS
 Job Ticket: 37269 **DST#: 2**
 Test Start: 2010.04.25 @ 04:15:09

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:40:39
 Time Test Ended: 10:05:09
 Interval: **3266.00 ft (KB) To 3281.00 ft (KB) (TVD)**
 Total Depth: 3144.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Tyson Flax
 Unit No: 44
 Reference Elevations: 1804.00 ft (KB)
 1797.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6668 Inside
 Press@RunDepth: 303.27 psig @ 3267.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.04.25 End Date: 2010.04.25 Last Calib.: 2010.04.25
 Start Time: 04:15:10 End Time: 10:05:09 Time On Btm: 2010.04.25 @ 05:39:39
 Time Off Btm: 2010.04.25 @ 08:14:39

TEST COMMENT: IFP-BOB in 5.5 min
 ISI-Weak surface blow back throughout
 FFP-BOB in 7 min
 FSI-Weak surface blow back died in 34 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1659.80	101.79	Initial Hydro-static
1	23.49	102.70	Open To Flow (1)
16	104.37	113.64	Shut-In(1)
45	1027.78	112.61	End Shut-In(1)
46	110.61	112.31	Open To Flow (2)
91	303.27	114.42	Shut-In(2)
154	1023.95	113.57	End Shut-In(2)
155	1551.89	113.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
480.00	Water	6.80
135.00	OCMV 10%O,40%W,50%M	1.91
15.00	CO	0.21
0.00	30' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmidt
 PO Box 47
 Great Bend, Ks 67530
 ATTN: Bob Schreiber

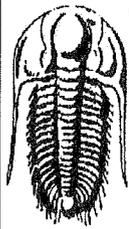
Petermann #1
11 17 10 EllsworthKS
 Job Ticket: 37269 **DST#: 2**
 Test Start: 2010.04.25 @ 04:15:09

Tool Information

Drill Pipe:	Length: 3257.00 ft	Diameter: 3.82 inches	Volume: 46.17 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 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: 50000.00 lb
		Total Volume: 46.17 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3266.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	36.00 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			3246.00	
Shut In Tool	5.00			3251.00	
Hydraulic tool	5.00			3256.00	
Packer	5.00			3261.00	21.00 Bottom Of Top Packer
Packer	5.00			3266.00	
Stubb	1.00			3267.00	
Recorder	0.00	6668	Inside	3267.00	
Recorder	0.00	6669	Inside	3267.00	
Perforations	11.00			3278.00	
Bullnose	3.00			3281.00	15.00 Bottom Packers & Anchor
Total Tool Length:	36.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmidt
PO Box 47
Great Bend, Ks 67530
ATTN: Bob Schreiber

Petermann #1
11 17 10 EllsworthKS
Job Ticket: 37269 **DST#: 2**
Test Start: 2010.04.25 @ 04:15:09

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 42 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 17000 ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.38 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 9900.00 ppm		
Filter Cake: inches		

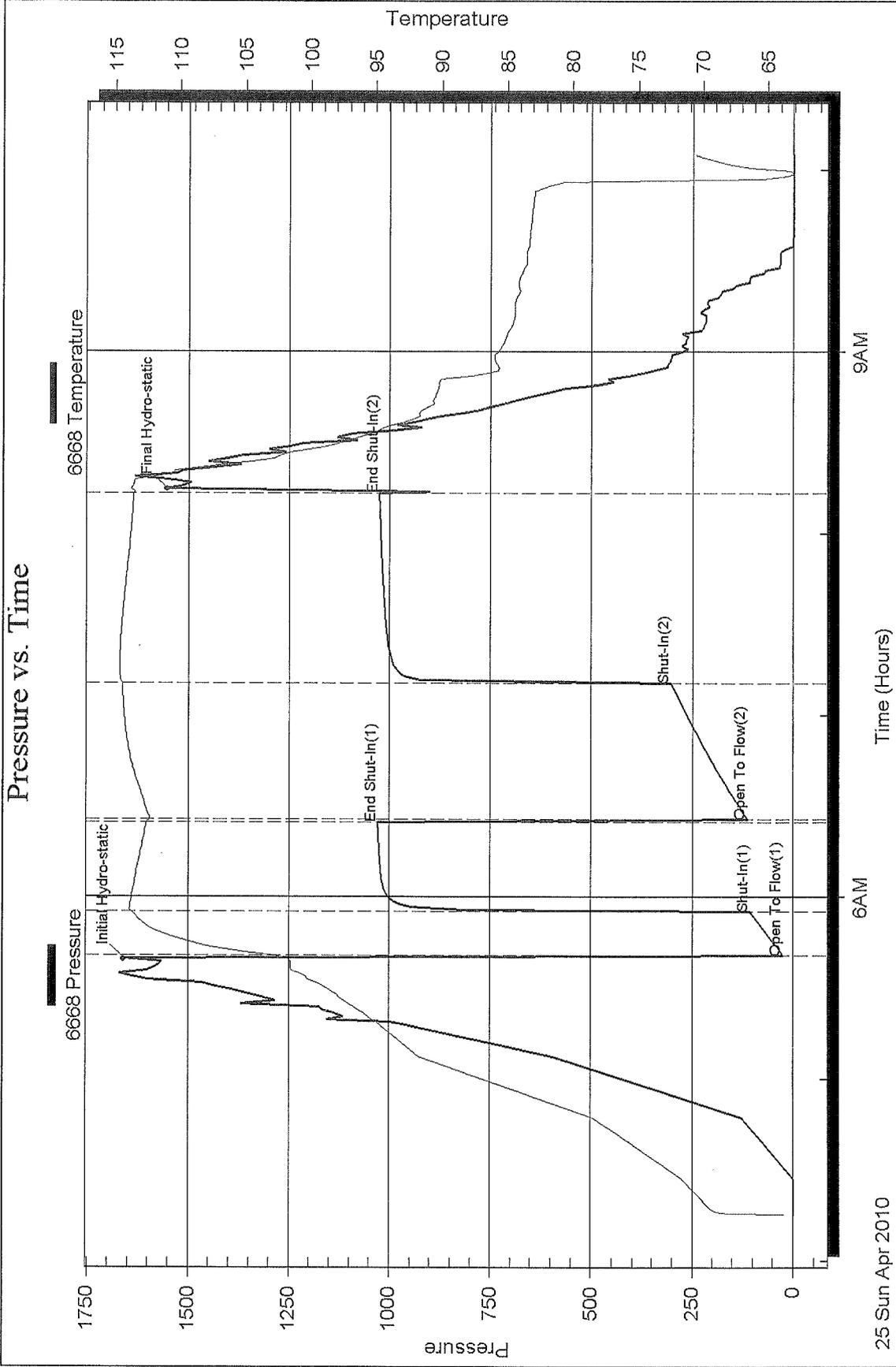
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
480.00	Water	6.804
135.00	OCMVW 10%O,40%W,50%M	1.914
15.00	CO	0.213
0.00	30' GIP	0.000

Total Length: 630.00 ft Total Volume: 8.931 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: RW .60 @ 45F = 17000 ppm chlorides

Pressure vs. Time



25 Sun Apr 2010

6AM

9AM

Time (Hours)



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmidt**

PO Box 47
Great Bend, Ks 67530

ATTN: Bob Schreiber

11 17 10 EllsworthKS

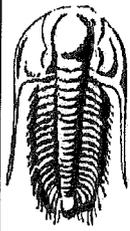
Petermann #1

Start Date: 2010.04.25 @ 17:02:42

End Date: 2010.04.25 @ 20:56:42

Job Ticket #: 37270 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 Schmidt
 PO Box 47
 Great Bend, Ks 67530
 ATTN: Bob Schreiber

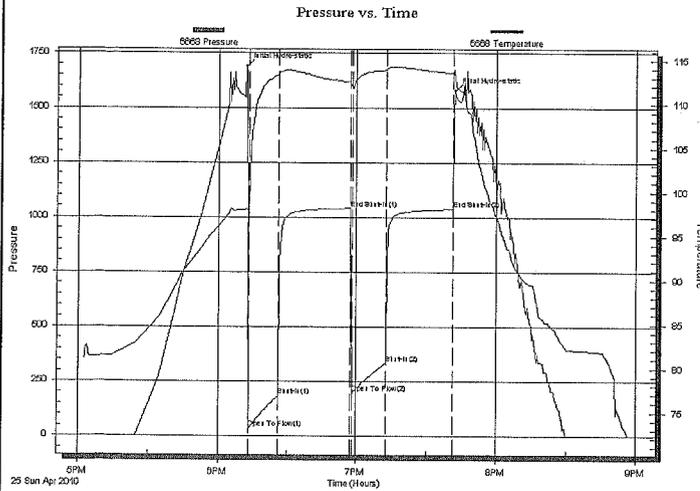
Petermann #1
11 17 10 EllsworthKS
 Job Ticket: 37270 **DST#: 3**
 Test Start: 2010.04.25 @ 17:02:42

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:13:12
 Time Test Ended: 20:56:42
 Interval: **3289.00 ft (KB) To 3301.00 ft (KB) (TVD)**
 Total Depth: 3301.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Tyson Flax
 Unit No: 44
 Reference Elevations: 1804.00 ft (KB)
 1797.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6668 Inside
 Press@RunDepth: 335.16 psig @ 3290.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.04.25 End Date: 2010.04.25 Last Calib.: 2010.04.25
 Start Time: 17:02:43 End Time: 20:56:42 Time On Btm: 2010.04.25 @ 18:12:12
 Time Off Btm: 2010.04.25 @ 19:42:12

TEST COMMENT: IFP-BOB in 3 min
 ISI-no blow back
 FFP-BOB in 4 min
 FSI-no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1687.43	98.11	Initial Hydro-static
1	36.69	98.07	Open To Flow (1)
14	185.74	113.34	Shut-In(1)
46	1041.04	112.51	End Shut-In(1)
46	197.52	111.90	Open To Flow (2)
61	335.16	113.83	Shut-In(2)
89	1037.34	113.49	End Shut-In(2)
90	1578.76	113.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
480.00	Water	6.80
120.00	SOCVM 10%O,70%W,20%M	1.70
105.00	SOCVM 10%O,30%W,60%M	1.49

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmidt
 PO Box 47
 Great Bend, Ks 67530
 ATTN: Bob Schreiber

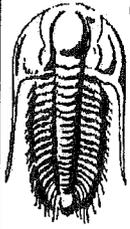
Petermann #1
11 17 10 EllsworthKS
 Job Ticket: 37270 **DST#: 3**
 Test Start: 2010.04.25 @ 17:02:42

Tool Information

Drill Pipe:	Length: 3285.00 ft	Diameter: 3.82 inches	Volume: 46.57 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 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: 55000.00 lb
			<u>Total Volume: 46.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3289.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	33.00 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			3269.00	
Shut In Tool	5.00			3274.00	
Hydraulic tool	5.00			3279.00	
Packer	5.00			3284.00	21.00 Bottom Of Top Packer
Packer	5.00			3289.00	
Stubb	1.00			3290.00	
Recorder	0.00	6668	Inside	3290.00	
Recorder	0.00	6669	Inside	3290.00	
Perforations	8.00			3298.00	
Bullnose	3.00			3301.00	12.00 Bottom Packers & Anchor
Total Tool Length:	33.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmidt
PO Box 47
Great Bend, Ks 67530
ATTN: Bob Schreiber

Petermann #1
11 17 10 EllsworthKS
Job Ticket: 37270 **DST#: 3**
Test Start: 2010.04.25 @ 17:02:42

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:	14250 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 11100.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
480.00	Water	6.804
120.00	SOCMW 10%O,70%W,20%M	1.701
105.00	SOCWM 10%O,30%W,60%M	1.488

Total Length: 705.00 ft Total Volume: 9.993 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW.62 @ 50F = 14250 ppm chlorides

Pressure vs. Time

