

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W State Rd 4
Olmitz KS 67564-8561

ATTN: Tom Funk

4 19S 29W Lane KS

Phyllis 'A' # 1-4

Start Date: 2008.06.19 @ 05:03:00

End Date: 2008.06.19 @ 12:52:20

Job Ticket #: 31316 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

OCT 10 2008

CONSERVATION DIVISION
WICHITA, KS

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

Larson Engineering

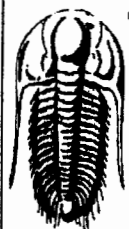
Phyllis 'A' # 1-4

4 19S 29W Lane KS

DST # 1

Altamont 'B'

2008.06.19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering
562 W State Rd 4
Olmitz KS 67564-8561

ATTN: Tom Funk

Phyllis 'A' # 1-4
4 19S 29W Lane KS
Job Ticket: 31316 **DST#: 1**
Test Start: 2008.06.19 @ 05:03:00

Tool Information

Drill Pipe:	Length: 4194.00 ft	Diameter: 3.80 inches	Volume: 58.83 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 155.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 62000.00 lb
			Total Volume: 59.59 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4349.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.00 ft			
Tool Length:	103.00 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			4328.00	
Shut In Tool	5.00			4333.00	
Hydraulic tool	5.00			4338.00	
Safety Joint	2.00			4340.00	
Packer	5.00			4345.00	22.00 Bottom Of Top Packer
Packer	4.00			4349.00	
Stubb	1.00			4350.00	
Recorder	0.00	8017	Inside	4350.00	
Recorder	0.00	8351	Inside	4350.00	
Perforations	12.00			4362.00	
Change Over Sub	1.00			4363.00	
Anchor	61.00			4424.00	
Change Over Sub	1.00			4425.00	
Bullnose	5.00			4430.00	81.00 Bottom Packers & Anchor

Total Tool Length: 103.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering
562 W State Rd 4
Olmitz KS 67564-8561
ATTN: Tom Funk

Phyllis 'A' # 1-4
4 19S 29W Lane KS
Job Ticket: 31316 DST#: 1
Test Start: 2008.06.19 @ 05:03:00

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: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.36 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3100.00 ppm			
Filter Cake: 1.00 inches			

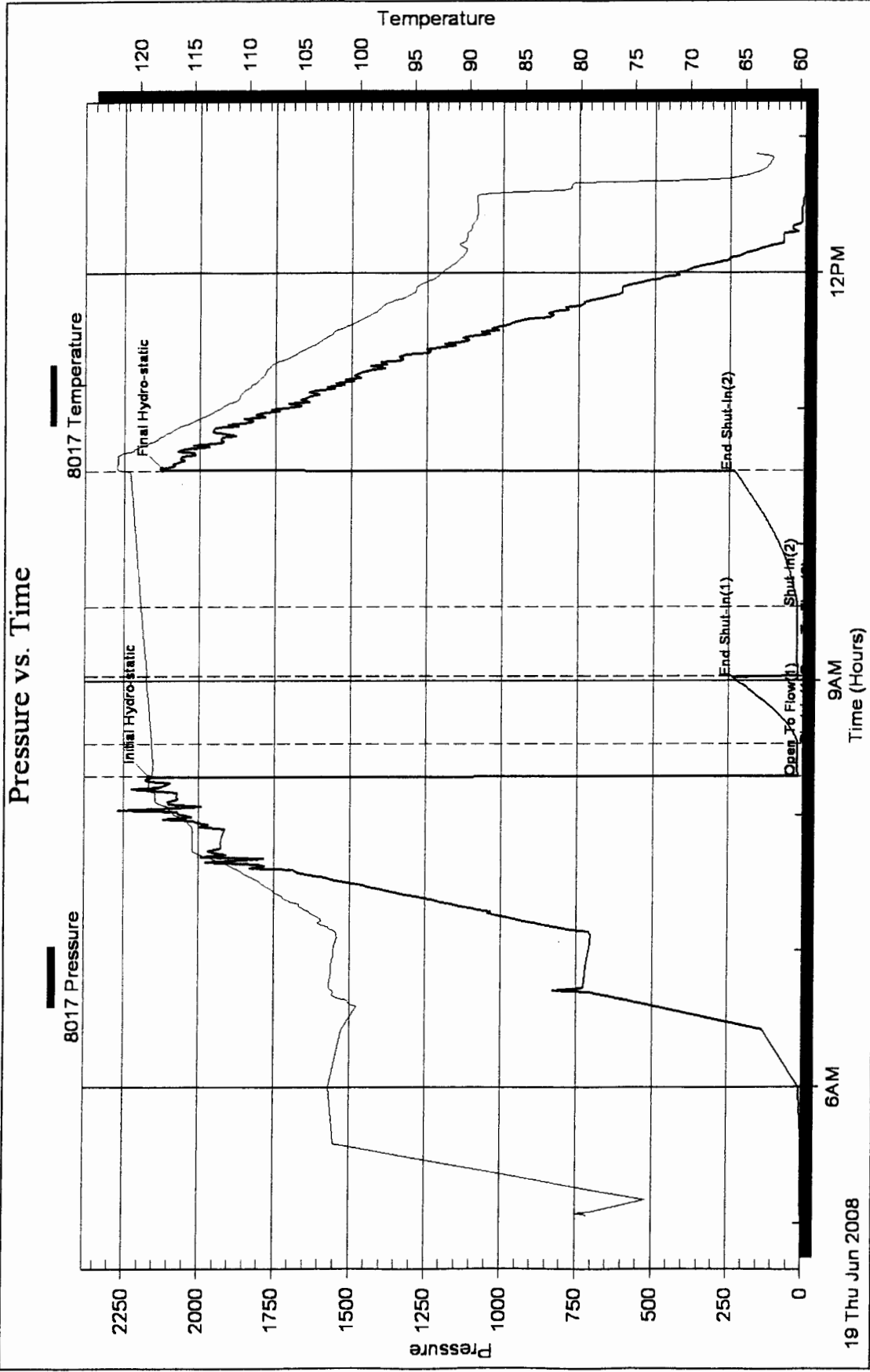
Recovery Information

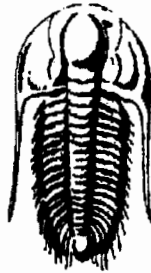
Recovery Table

Length ft	Description	Volume bbl
5.00	DM 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 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: **Larson Engineering**

562 W State Rd 4
Olmitz KS 67564-8561

ATTN: Tom Funk

4 19S 29W Lane KS

Phyllis 'A' # 1-4

Start Date: 2008.06.20 @ 11:02:00

End Date: 2008.06.20 @ 19:34:30

Job Ticket #: 31317 DST #: 2

RECEIVED
KANSAS CORPORATION COMMISSION

OCT 10 2008

CONSERVATION DIVISION
WICHITA, KS

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering
562 W State Rd 4
Olmitz KS 67564-8561
ATTN: Tom Funk

Phyllis 'A' # 1-4
4 19S 29W Lane KS
Job Ticket: 31317 **DST#: 2**
Test Start: 2008.06.20 @ 11:02:00

GENERAL INFORMATION:

Formation: **Pawnee, Myric statio**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:35:30
Time Test Ended: 19:34:30
Interval: 4444.00 ft (KB) To 4584.00 ft (KB) (TVD)
Total Depth: 4584.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

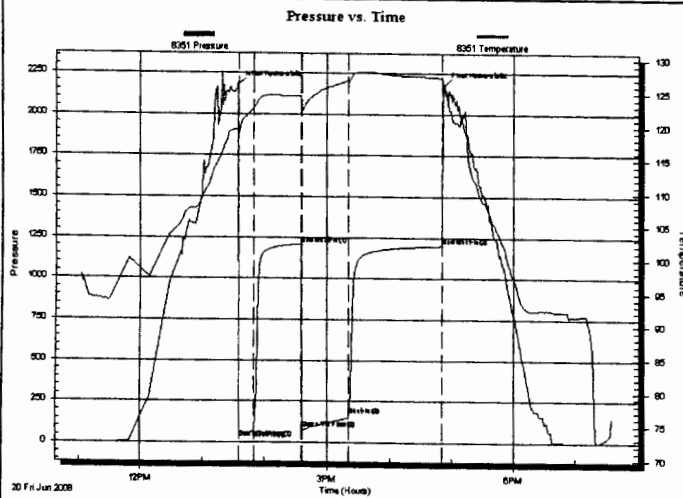
Test Type: Conventional Bottom Hole
Tester: Chuck Smith
Unit No: 37
Reference Elevations: 2825.00 ft (KB)
2820.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8351

Inside

Press@RunDepth: 162.77 psig @ 4445.00 ft (KB)
Start Date: 2008.06.20 End Date: 2008.06.20
Start Time: 11:02:01 End Time: 19:34:30
Capacity: 7000.00 psig
Last Calib.: 2008.06.20
Time On Btm: 2008.06.20 @ 13:35:15
Time Off Btm: 2008.06.20 @ 16:53:00

TEST COMMENT: IF BOB @ 6 min.
ISI Weak surface return died @ 7 min.
FF BOB @ 3 min.
FSI BOB @ 31 min.



PRESSURE SUMMARY

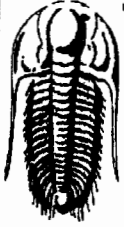
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2173.97	119.54	Initial Hydro-static
1	22.31	118.35	Open To Flow (1)
15	70.59	122.63	Shut-In(1)
61	1208.37	124.49	End Shut-In(1)
62	80.70	122.45	Open To Flow(2)
106	162.77	126.73	Shut-In(2)
197	1198.50	127.33	End Shut-In(2)
198	2170.51	125.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	GMCO 45%G 25%M 30%O	0.30
124.00	CGO 55%G 45%O	0.88
124.00	CGO 65%G 35%O	1.74
80.00	GMCO 10G 20%M 70%O	1.12
0.00	2600' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering
562 W State Rd 4
Olmitz KS 67564-8561
ATTN: Tom Funk

Phyllis 'A' # 1-4
4 19S 29W Lane KS
Job Ticket: 31317 **DST#: 2**
Test Start: 2008.06.20 @ 11:02:00

Tool Information

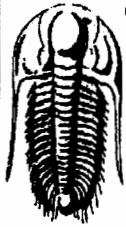
Drill Pipe:	Length: 4285.00 ft	Diameter: 3.80 inches	Volume: 60.11 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 155.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 60.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4444.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	140.00 ft			
Tool Length:	162.00 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			4423.00	
Shut In Tool	5.00			4428.00	
Hydraulic tool	5.00			4433.00	
Safety Joint	2.00			4435.00	
Packer	5.00			4440.00	22.00 Bottom Of Top Packer
Packer	4.00			4444.00	
Stubb	1.00			4445.00	
Recorder	0.00	8017	Inside	4445.00	
Recorder	0.00	8351	Inside	4445.00	
Perforations	10.00			4455.00	
Change Over Sub	1.00			4456.00	
Anchor	122.00			4578.00	
Change Over Sub	1.00			4579.00	
Bullnose	5.00			4584.00	140.00 Bottom Packers & Anchor

Total Tool Length: 162.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering
562 W State Rd 4
Olmitz KS 67564-8561
ATTN: Tom Funk

Phyllis 'A' # 1-4
4 19S 29W Lane KS
Job Ticket: 31317 **DST#: 2**
Test Start: 2008.06.20 @ 11:02:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	39 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.37 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3300.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	GMCO 45%G 25%M 30%O	0.300
124.00	CGO 55%G 45%O	0.883
124.00	CGO 65%G 35%O	1.739
80.00	GMCO 10G 20%M 70%O	1.122
0.00	2600' GIP	0.000

Total Length: 389.00 ft Total Volume: 4.044 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: API 41 @ 80 Degrees F =39

