

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Larson Operating**

562 W Hwy 4
Olmitz KS 67564-8561

ATTN: Tom Funk

19 18S 26W Ness KS

Lois #2-19

Start Date: 2006.05.19 @ 20:04:01

End Date: 2006.05.20 @ 04:26:15

Job Ticket #: 24209 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Larson Operating

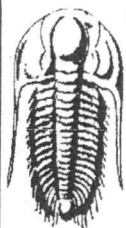
Lois #2-19

19 18S 26W Ness KS

DST # 1

Altamont

2006.05.19



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DRILL STEM TEST REPORT

Larson Operating
562 W Hwy 4
Olmitz KS 67564-8561

Lois #2-19

19 18S 26W Ness KS

Job Ticket: 24209 **DST#: 1**
Test Start: 2006.05.19 @ 20:04:01

ATTN: Tom Funk

GENERAL INFORMATION:

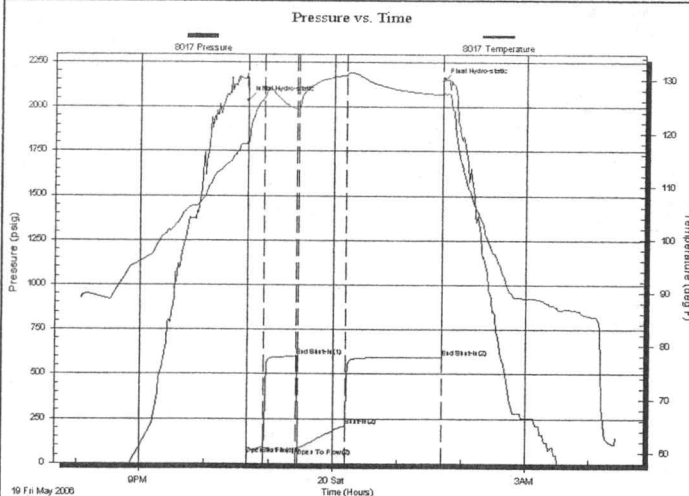
Formation: **Altamont**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:40:00
Time Test Ended: 04:26:15
Interval: **4416.00 ft (KB) To 4441.00 ft (KB) (TVD)**
Total Depth: 4441.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Chuck Smith
Unit No: 18
Reference Elevations: 2646.00 ft (KB)
2636.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8017

Inside

Press@RunDepth: 208.49 psig @ 4421.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2006.05.19 End Date: 2006.05.20 Last Calib.: 2006.05.20
Start Time: 20:04:01 End Time: 04:26:15 Time On Btm: 2006.05.19 @ 22:39:45
Time Off Btm: 2006.05.20 @ 01:41:45

TEST COMMENT: IF BOB in 2 in
IS BOB in 6 in receded to 6 in
FF BOB in 2 1/2 in gas to surf @ 38 in
FS BOB in 1 1/2 in receded to 2 in



PRESSURE SUMMARY

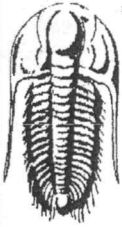
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2035.77	118.57	Initial Hydro-static
1	48.36	118.03	Open To Flow (1)
16	93.83	126.75	Shut-In(1)
46	597.57	124.53	End Shut-In(1)
48	83.87	124.42	Open To Flow (2)
91	208.49	130.85	Shut-In(2)
182	594.88	127.33	End Shut-In(2)
182	2143.59	127.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GMCHO 60%G 10%M 30%O	1.74
186.00	GMCO 20%G 20%M 60%O	2.61
248.00	Free Oil 100%O	3.48

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Operating
562 W Hwy 4
Olmitz KS 67564-8561
ATTN: Tom Funk

Lois #2-19
19 18S 26W Ness KS
Job Ticket: 24209 DST#: 1
Test Start: 2006.05.19 @ 20:04:01

Tool Information

Drill Pipe:	Length: 4414.00 ft	Diameter: 3.80 inches	Volume: 61.92 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: 28000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 61.92 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4416.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	45.00 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			4397.00	
Shut In Tool	5.00			4402.00	
Hydraulic tool	5.00			4407.00	
Packer	5.00			4412.00	20.00 Bottom Of Top Packer
Packer	4.00			4416.00	
Stubb	1.00			4417.00	
Perforations	4.00			4421.00	
Recorder	0.00	8017	Inside	4421.00	
Perforations	15.00			4436.00	
Recorder	0.00	13276	Inside	4436.00	
Bullnose	5.00			4441.00	25.00 Bottom Packers & Anchor

Total Tool Length: 45.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

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ATTN: Tom Funk

Lois #2-19
19 18S 26W Ness KS
Job Ticket: 24209 **DST#: 1**
Test Start: 2006.05.19 @ 20:04:01

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: 0 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2500.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	GMCHO 60%G 10%M 30%O	1.739
186.00	GMCO 20%G 20%M 60%O	2.609
248.00	Free Oil 100%O	3.479

Total Length: 558.00 ft Total Volume: 7.827 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: API: 42 @ 60 degrees F = 42

Serial #: 8017

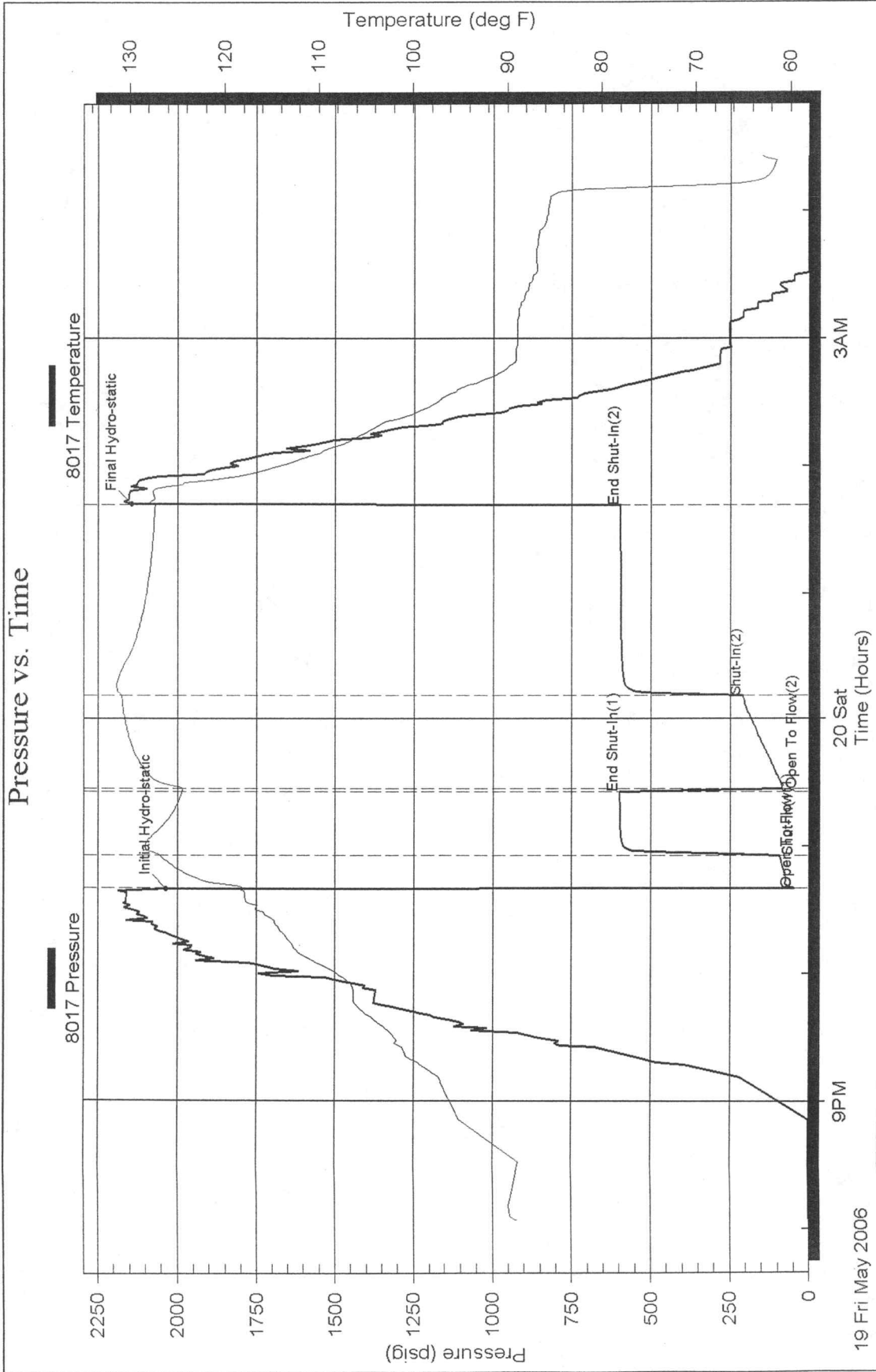
Inside

Larson Operating

19 18S 26W Ness KS

DST Test Number: 1

Pressure vs. Time



KCC
AUG 29 2006
CONFIDENTIAL

8017

Inside

Larson Operating

Sec: 19 18s26w Ness

DST Test Number: 1

Pressure vs. Time

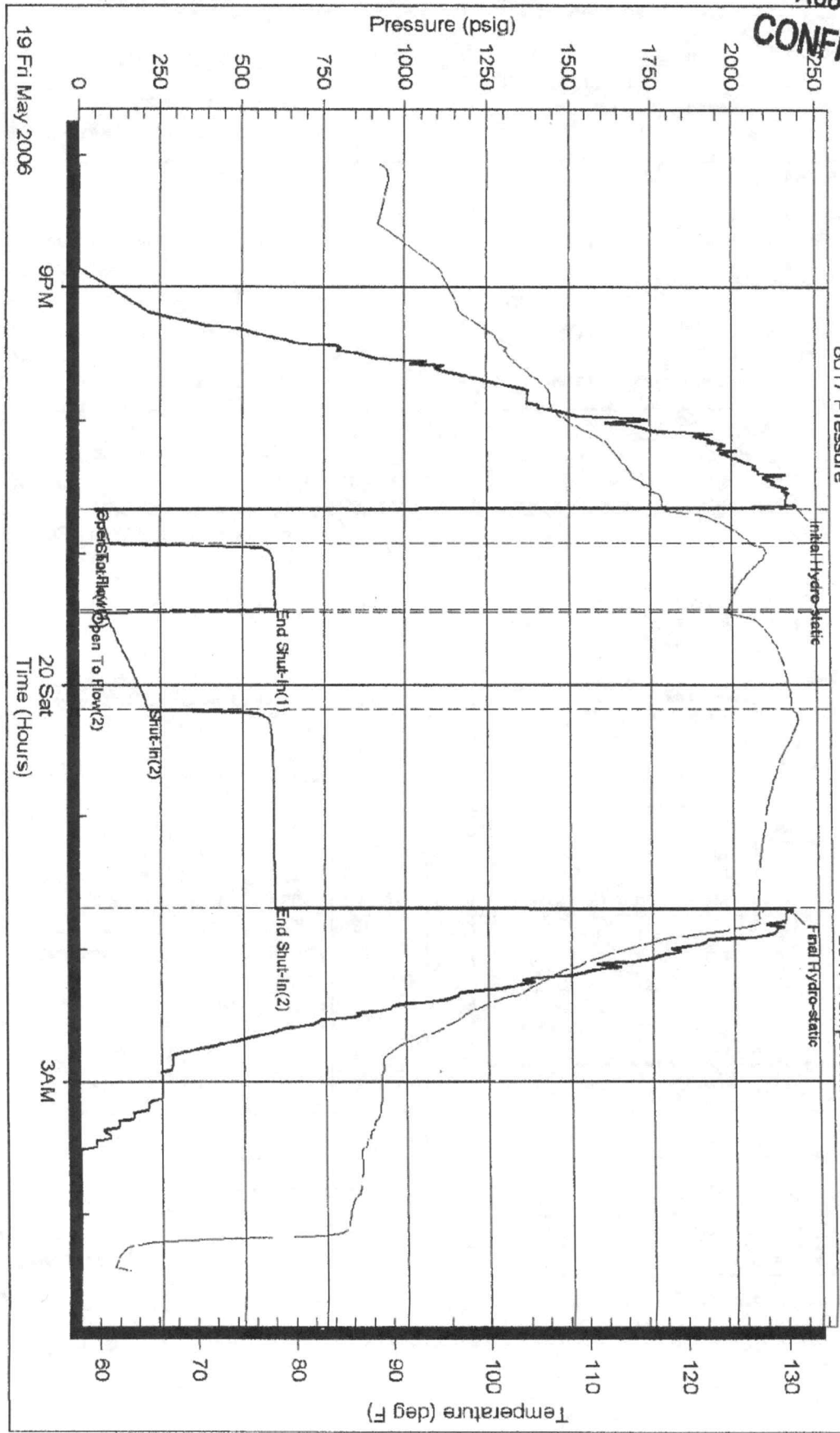


CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

