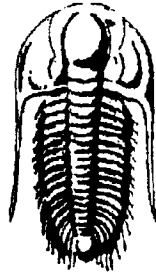


24-15s-24w

IND

PC



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **S & W Oil & Gas**

PO Box 75264
Wichita, KS 67275

ATTN: Mike Engelbrecht

24-15s-24w Trego KS

#1 Luetters 24CD

Start Date: 2009.05.17 @ 15:17:21

End Date: 2009.05.17 @ 22:27:15

Job Ticket #: 36115 DST #: 1

15-195-22610-0000

S & W Oil & Gas

#1 Luetters 24CD

24-15s-24w Trego KS

DST # 1

Mississippian

2009.05.17

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

S & W Oil & Gas

#1 Luettens 24CD

PO Box 75264
Wichita, KS 67275

24-15s-24w Trego KS

Job Ticket: 36115

DST#: 1

ATTN: Mike Engelbrecht

Test Start: 2009.05.17 @ 15:17:21

Tool Information

Drill Pipe:	Length: 4197.00 ft	Diameter: 3.80 inches	Volume: 58.87 bbl	Tool Weight: 2500.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume: 59.02 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	4219.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4204.00	
Hydraulic tool	5.00			4209.00	
Packer	5.00			4214.00	20.00 Bottom Of Top Packer
Packer	5.00			4219.00	
Stubb	1.00			4220.00	
Perforations	3.00			4223.00	
Change Over Sub	1.00			4224.00	
Recorder	0.00	8018	Inside	4224.00	
Recorder	0.00	8371	Inside	4224.00	
Blank Spacing	32.00			4256.00	
Change Over Sub	1.00			4257.00	
Perforations	5.00			4262.00	
Bullnose	3.00			4265.00	46.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

S & W Oil & Gas

#1 Luettters 24CD

PO Box 75264
Wichita, KS 67275

24-15s-24w Trego KS

Job Ticket: 36115

DST#: 1

ATTN: Mike Engelbrecht

Test Start: 2009.05.17 @ 15:17:21

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 10.45 in³

Resistivity: ohm.m

Salinity: 2800.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

35 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	GMCO 10%G, 65%O, 25%M	2.392
120.00	FREE OIL 95%O, 5%M	1.683
0.00	185' GIP	0.000

Total Length: 310.00 ft

Total Volume: 4.075 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

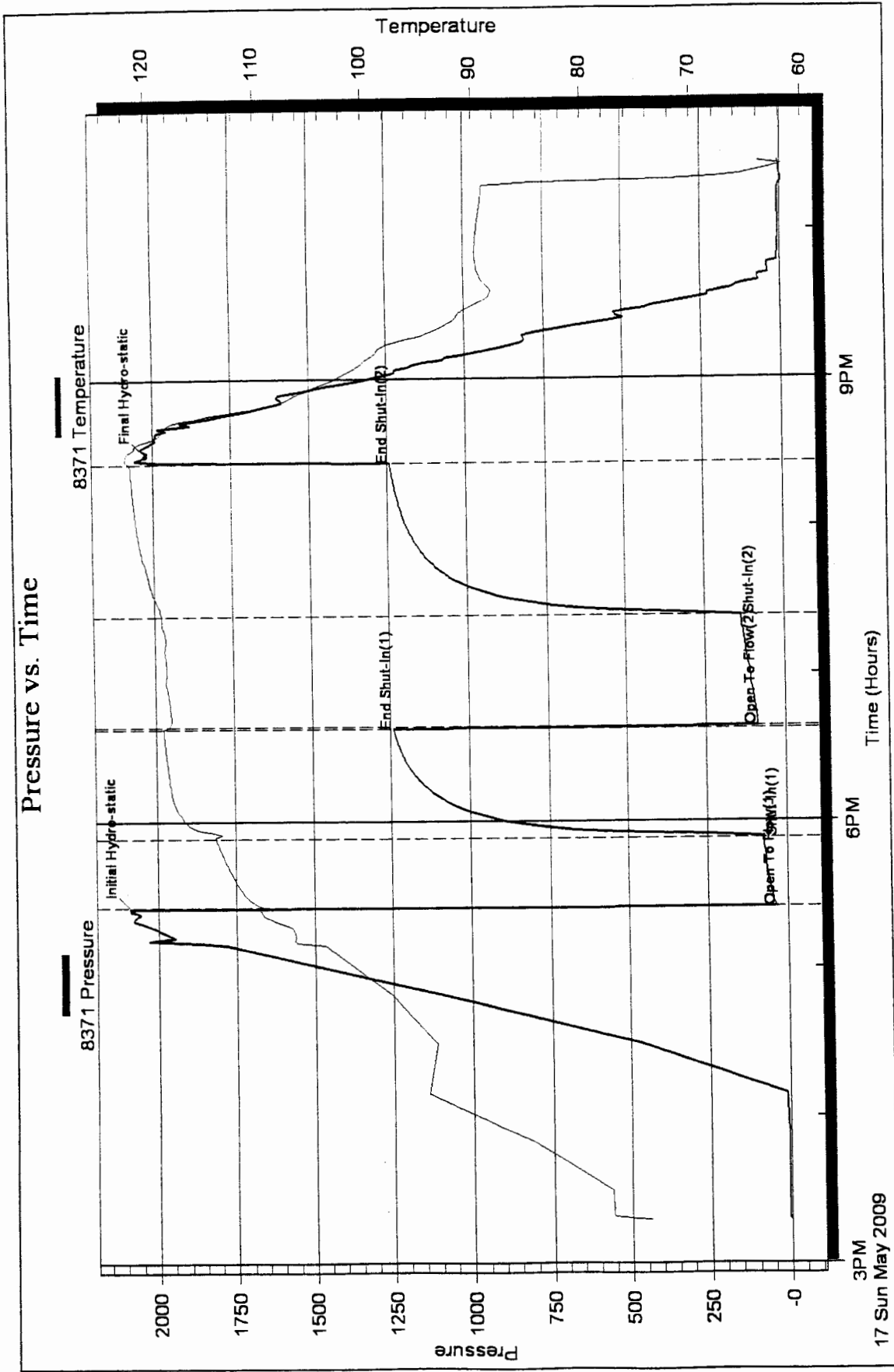
Serial #:

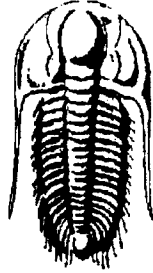
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **S & W Oil & Gas**

PO Box 75264
Wichita, KS 67275

ATTN: Mike Engelbrecht

24-15s-24w Trego KS

#1 Luetters 24CD

Start Date: 2009.05.18 @ 05:18:00

End Date: 2009.05.18 @ 12:11:24

Job Ticket #: 36116

DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

S & W Oil & Gas

#1 Luetters 24CD

24-15s-24w Trego KS

DST # 2

Miss (2)

2009.05.18



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

S & W Oil & Gas

#1 Luettters 24CD

PO Box 75264
Wichita, KS 67275

24-15s-24w Trego KS

Job Ticket: 36116

DST#: 2

ATTN: Mike Engelbrecht

Test Start: 2009.05.18 @ 05:18:00

GENERAL INFORMATION:

Formation: **Miss (2)**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: 07:25:55

Time Test Ended: 12:11:24

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbank**

Unit No: **41**

Interval: **4265.00 ft (KB) To 4278.00 ft (KB) (TVD)**

Total Depth: **4278.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition:

Reference Elevations: **2283.00 ft (KB)**

2278.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 8371

Inside

Press@RunDepth: **52.30 psig @ 4270.00 ft (KB)**

Start Date: **2009.05.18**

End Date:

2009.05.18

Capacity: **7000.00 psig**

Last Calib.: **2009.05.18**

Start Time: **05:18:00**

End Time:

12:11:24

Time On Btm: **2009.05.18 @ 07:24:55**

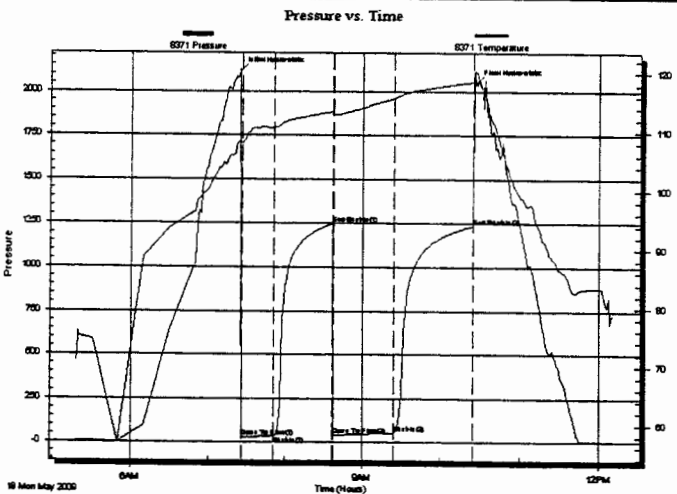
Time Off Btm: **2009.05.18 @ 10:26:54**

TEST COMMENT: **IFP - weak blow throughout 1/4" - 2 1/2"**

ISI - no blow back

FFP - no blow 3 min. - 2 3/4"

FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2115.00	108.67	Initial Hydro-static
1	26.56	108.10	Open To Flow (1)
27	35.50	110.82	Shut-In (1)
72	1246.74	113.54	End Shut-In (1)
73	40.00	113.02	Open To Flow (2)
120	52.30	115.78	Shut-In (2)
180	1234.10	118.59	End Shut-In (2)
182	2047.25	120.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	GOCWM 5%G, 10%O, 25%W, 60%M	0.36
30.00	FREE OIL 95%O, 5%M	0.42

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

S & W Oil & Gas

#1 Luettens 24CD

PO Box 75264
Wichita, KS 67275

24-15s-24w Trego KS

Job Ticket: 36116

DST#: 2

ATTN: Mke Engelbrecht

Test Start: 2009.05.18 @ 05:18:00

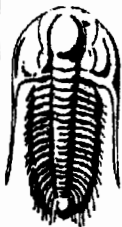
Tool Information

Drill Pipe:	Length: 4229.00 ft	Diameter: 3.80 inches	Volume: 59.32 bbl	Tool Weight: 2500.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 59.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4265.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4250.00	
Hydraulic tool	5.00			4255.00	
Packer	5.00			4260.00	20.00 Bottom Of Top Packer
Packer	5.00			4265.00	
Stubb	1.00			4266.00	
Perforations	4.00			4270.00	
Recorder	0.00	8018	Inside	4270.00	
Recorder	0.00	8371	Inside	4270.00	
Perforations	5.00			4275.00	
Bullnose	3.00			4278.00	13.00 Bottom Packers & Anchor
Total Tool Length:	33.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

S & W Oil & Gas

#1 Luettters 24CD

PO Box 75264
Wichita, KS 67275

24-15s-24w Trego KS

Job Ticket: 36116

DST#: 2

ATTN: Mike Engelbrecht

Test Start: 2009.05.18 @ 05:18:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	35 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	12500 ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	10.43 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2800.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
45.00	GOCWM 5%G, 10%O, 25%W, 60%M	0.358
30.00	FREE OIL 95%O, 5%M	0.421

Total Length: 75.00 ft Total Volume: 0.779 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW .499 @ 73F = 12500 chlorides

Pressure vs. Time

