

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Kenneth White**

260 N Rock Road Ste, 240 Wichita KS 67206

ATTN: Tom Robinson

26-29-41 Stanton KS

CBS Unit#1

Start Date: 2001.04.29 @ 07:00:00

End Date: 2001.04.29 @ 15:30:00

Job Ticket #: 13490 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Kenneth White
260 N Rock Road Ste, 240 Wichita KS 67206
ATTN: Tom Robinson

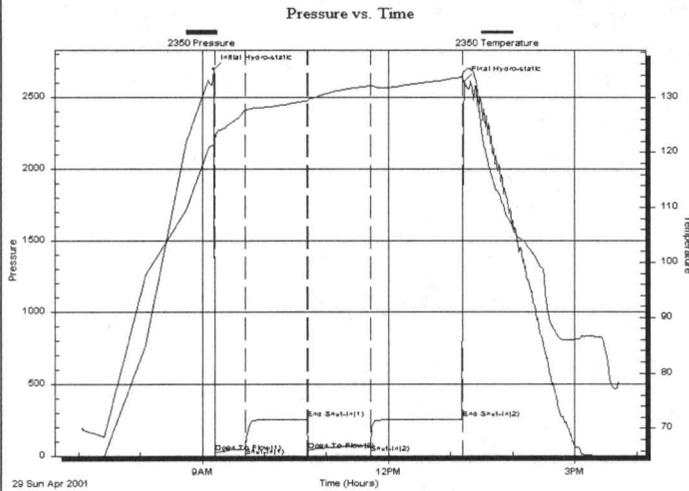
CBS Unit#1
26-29-41 Stanton KS
Job Ticket: 13490 **DST#: 1**
Test Start: 2001.04.29 @ 07:00:00

GENERAL INFORMATION:

Formation: **Keyes Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:12:17
Time Test Ended: 15:30:00
Interval: **5403.00 ft (KB) To 5420.00 ft (KB) (TVD)**
Total Depth: 5420.00 ft (KB) (TVD)
Hole Diameter: 7.78 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Blake Wallace
Unit No: 17
Reference Elevations: 3356.00 ft (KB)
3345.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 2350 Inside
Press@RunDepth: 74.25 psig @ 5401.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2001.04.29 End Date: 2001.04.29 Last Calib.: 2001.05.28
Start Time: 07:03:18 End Time: 15:42:47 Time On Btm: 2001.04.29 @ 09:11:02
Time Off Btm: 2001.04.29 @ 13:13:17

TEST COMMENT: 1st opening-strong blow BOB 7min
ISI-no blow back
2nd opening-strong blow BOB as soon as open
FSI-no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2696.32	121.30	Initial Hydro-static
2	17.05	122.23	Open To Flow (1)
31	48.50	127.48	Shut-In(1)
91	251.89	129.33	End Shut-In(1)
92	34.08	129.50	Open To Flow (2)
152	74.25	132.04	Shut-In(2)
241	251.75	133.57	End Shut-In(2)
243	2613.08	134.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Oily mud 20% oil 80% mud	0.44
30.00	Drilling mud 100% mud	0.15

Gas Rates

	Choke(inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	5.50	31.57
Last Gas Rate	0.25	5.50	31.57



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Kenneth White
260 N Rock Road Ste, 240 Wichita KS 67206
ATTN: Tom Robinson

CBS Unit#1
26-29-41 Stanton KS
Job Ticket: 13490 **DST#: 1**
Test Start: 2001.04.29 @ 07:00:00

Tool Information

Drill Pipe:	Length: 4821.00 ft	Diameter: 3.80 inches	Volume: 67.63 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 571.00 ft	Diameter: 2.25 inches	Volume: 2.81 bbl	Weight to Pull Loose: 92000.00 lb
			<u>Total Volume: 70.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	5399.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5373.00	
S.I. Tool	5.00			5378.00	
HMV	5.00			5383.00	
Jars	5.00			5388.00	
Safety Joint	2.00			5390.00	
Packer	5.00			5395.00	27.00 Bottom Of Top Packer
Packer	4.00			5399.00	
Stubb	1.00			5400.00	
Perforations	1.00			5401.00	
Recorder	0.00	2350	Inside	5401.00	
P.O. Sub	5.00			5406.00	
Perforations	8.00			5414.00	
Recorder	0.00	13277	Outside	5414.00	
Bullnose	2.00			5416.00	17.00 Bottom Packers & Anchor

Total Tool Length: 44.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Kenneth White

CBS Unit#1

260 N Rock Road Ste, 240 Wichita KS 67206

26-29-41 Stanton KS

Job Ticket: 13490

DST#: 1

ATTN: Tom Robinson

Test Start: 2001.04.29 @ 07:00:00

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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Oily mud 20% oil 80% mud	0.443
30.00	Drilling mud 100% mud	0.148

Total Length: 120.00 ft

Total Volume: 0.591 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Kenneth White

CBS Unit#1

260 N Rock Road Ste, 240 Wichita KS 67206

26-29-41 Stanton KS

Job Ticket: 13490

DST#: 1

ATTN: Tom Robinson

Test Start: 2001.04.29 @ 07:00:00

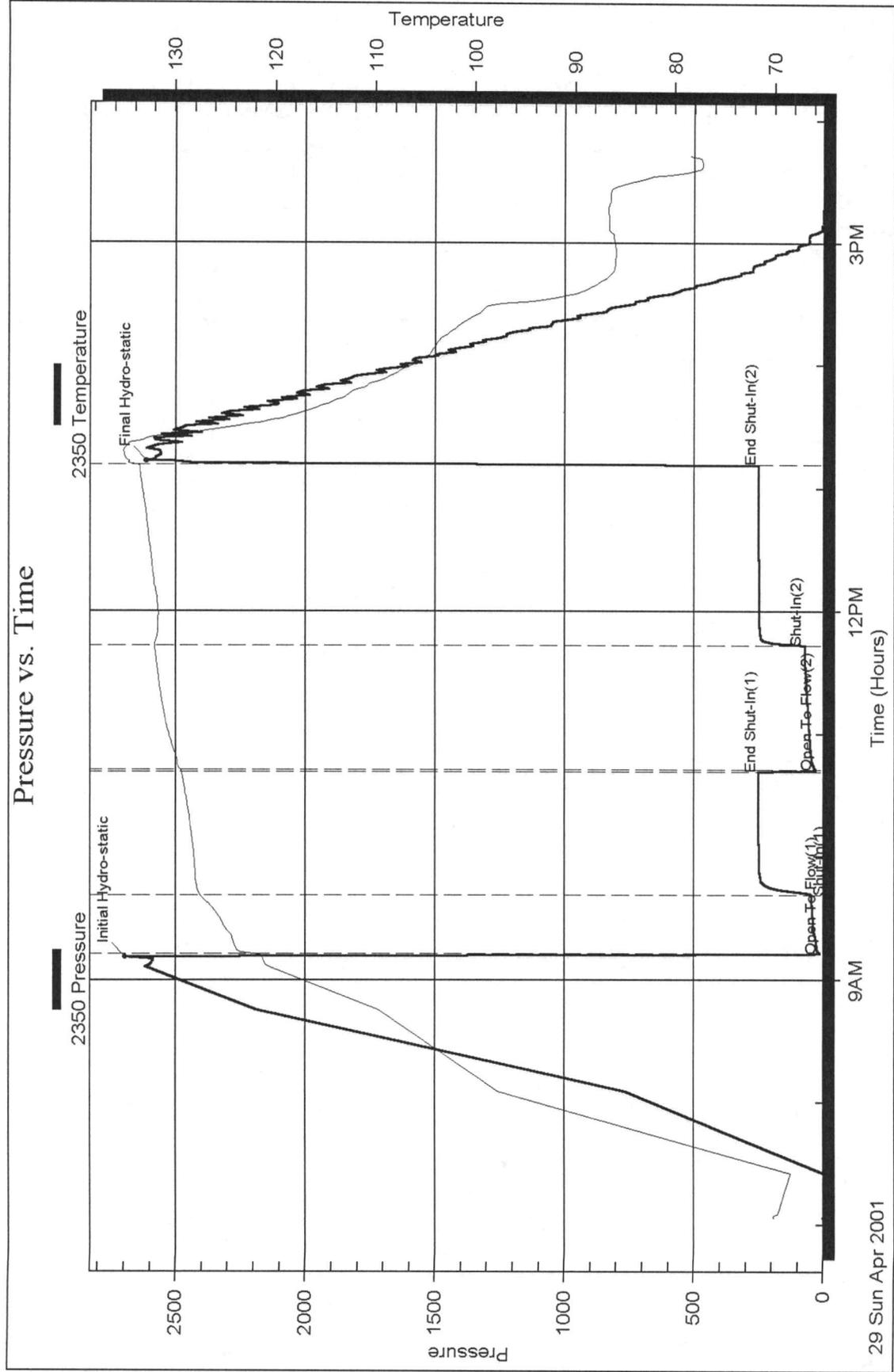
Gas Rates Information

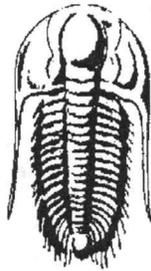
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	51	0.25	5.50	31.57
2	51	0.25	5.50	31.57

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Kenneth White**

260 N Rock Road Ste, 240 Wichita KS 67206

ATTN: Tom Robinson

26-29-41 Stanton KS

CBS Unit#1

Start Date: 2001.04.30 @ 04:00:00

End Date: 2001.04.30 @ 13:00:00

Job Ticket #: 13491 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Kenneth White

CBS Unit#1

26-29-41 Stanton KS

DST # 2

Keyes sand

2001.04.30



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Kenneth White
260 N Rock Road Ste, 240 Wichita KS 67206
ATTN: Tom Robinson

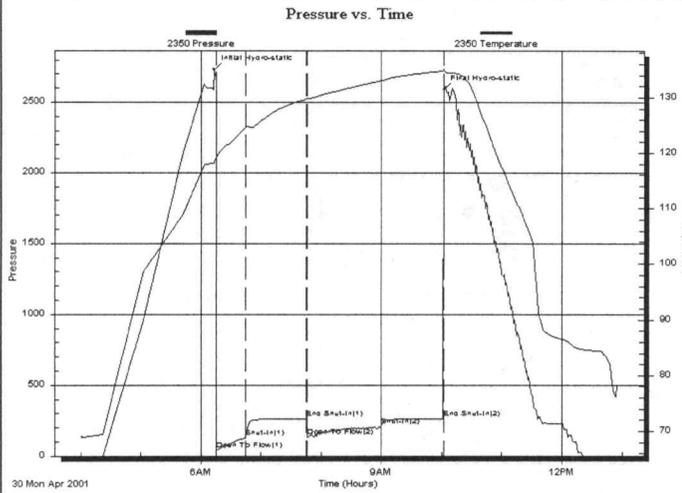
CBS Unit#1
26-29-41 Stanton KS
Job Ticket: 13491 **DST#: 2**
Test Start: 2001.04.30 @ 04:00:00

GENERAL INFORMATION:

Formation: **Keyes sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:15:30
Time Test Ended: 13:00:00
Test Type: Conventional Bottom Hole
Tester: Blake Wallace
Unit No: 17
Interval: **5435.00 ft (KB) To 5455.00 ft (KB) (TVD)**
Total Depth: 5455.00 ft (KB) (TVD)
Reference Elevations: 3356.00 ft (KB)
3345.00 ft (CF)
Hole Diameter: 7.78 inches Hole Condition: Fair
KB to GR/CF: 11.00 ft

Serial #: 2350 Inside
Press@RunDepth: 207.15 psig @ 5435.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2001.04.30 End Date: 2001.04.30 Last Calib.: 2001.04.27
Start Time: 04:00:16 End Time: 12:55:30 Time On Btm: 2001.04.30 @ 06:13:00
Time Off Btm: 2001.04.30 @ 10:02:15

TEST COMMENT: 1st opening-strong blow BOB in 6 min
ISI-no blow back
2nd opening-strong blow BOB 8 min
FSI- no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2731.43	118.44	Initial Hydro-static
3	37.10	119.39	Open To Flow (1)
32	129.39	124.70	Shut-In(1)
92	261.21	129.74	End Shut-In(1)
93	135.80	129.78	Open To Flow (2)
167	207.15	133.07	Shut-In(2)
229	260.36	134.83	End Shut-In(2)
230	2588.77	135.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
92.00	Oily mud 5% oil 95% m	0.45
333.00	15% oil 85% gas	1.64
107.00	Gassy oil 10% g 90% o	0.53
4252.00	gas in pipe	59.29

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Kenneth White
260 N Rock Road Ste, 240 Wichita KS 67206
ATTN: Tom Robinson

CBS Unit#1
26-29-41 Stanton KS
Job Ticket: 13491 **DST#: 2**
Test Start: 2001.04.30 @ 04:00:00

Tool Information

Drill Pipe:	Length: 4853.00 ft	Diameter: 3.80 inches	Volume: 68.07 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 571.00 ft	Diameter: 2.25 inches	Volume: 2.81 bbl	Weight to Pull Loose: 104000.0 lb
			<u>Total Volume: 70.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	5431.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5405.00	
S.I. Tool	5.00			5410.00	
HMV	5.00			5415.00	
Jars	5.00			5420.00	
Safety Joint	2.00			5422.00	
Packer	5.00			5427.00	27.00 Bottom Of Top Packer
Packer	4.00			5431.00	
Stubb	1.00			5432.00	
Perforations	3.00			5435.00	
Recorder	0.00	2350	Inside	5435.00	
P.O. Sub	5.00			5440.00	
Perforations	9.00			5449.00	
Recorder	0.00	13277	Outside	5449.00	
Bullnose	2.00			5451.00	20.00 Bottom Packers & Anchor

Total Tool Length: 47.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Kenneth White
260 N Rock Road Ste, 240 Wichita KS 67206
ATTN: Tom Robinson

CBS Unit#1
26-29-41 Stanton KS
Job Ticket: 13491 DST#: 2
Test Start: 2001.04.30 @ 04:00:00

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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
92.00	Oily mud 5% oil 95% m	0.452
333.00	15% oil 85% gas	1.638
107.00	Gassy oil 10% g 90% o	0.526
4252.00	gas in pipe	59.289

Total Length: 4784.00 ft Total Volume: 61.905 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 2350

Inside

Kenneth White

26-29-41 Stanton KS

DST Test Number: 2

Pressure vs. Time

