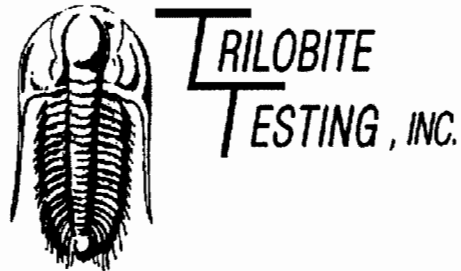


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KANSAS CORPORATION COMMISSION

MAY 09 2002

CONSERVATION DIVISION
WICHITA, KS



DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling Co. Inc.**

100 S. Main Suite 505
Wichita, Ks. 67202-3738

15-057--20559

ATTN: Larry J. Richardson

15--29s--22w Ford

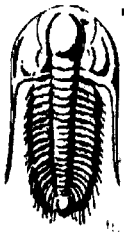
Ellis "L"-#1

Start Date: 2001.05.26 @ 08:06:02

End Date: 2001.05.26 @ 17:30:02

Job Ticket #: 14347 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

Pickrell Drilling Co. Inc.

100 S.Main Suite 505
Wichita,Ks.67202-3738

ATTN: Larry J.Richardson

Ellis "L"-#1

15--29s--22w Ford

Job Ticket: 14347

DST#: 1

Test Start: 2001.05.26 @ 08:06:02

GENERAL INFORMATION:

Formation: Cong.

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:30:47

Time Test Ended: 17:30:02

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: 5240.00 ft (KB) To 5290.00 ft (KB) (TVD)

Total Depth: 5290.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2495.00 ft (KB)

2490.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3227

Inside

Press@RunDepth: 49.91 psig @ 5245.01 ft (KB)

Start Date: 2001.05.26

End Date:

2001.05.26

Start Time: 08:06:04

End Time:

17:15:02

Capacity: 7000.00 psig

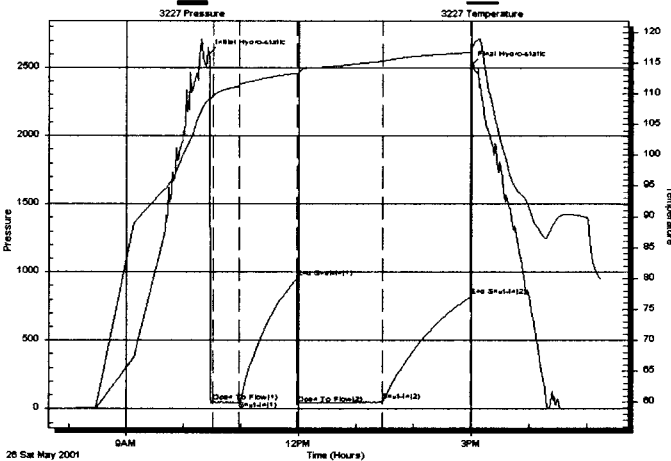
Last Calib.: 2001.01.26

Time On Btm: 2001.05.26 @ 10:26:32

Time Off Btm: 2001.05.26 @ 14:59:02

TEST COMMENT: IF- Strong B.O.B. 1-Min. IS-No Blow
FF-Strong B.O.B. 5 Sec. Gas To Surface in 10 Min. Fast Decline on Blow
To small to guage.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2600.62	109.11	Initial Hydro-static
5	43.20	109.77	Open To Flow (1)
32	48.05	111.36	Shut-In(1)
92	950.62	113.36	End Shut-In(1)
93	28.20	113.27	Open To Flow (2)
181	49.91	115.33	Shut-In(2)
272	816.60	116.76	End Shut-In(2)
273	2514.53	117.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Mud	0.34

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drilling Co. Inc.

Ellis "L"-#1

100 S.Main Suite 505
Wichita,Ks.67202-3738

15--29s--22w Ford

Job Ticket: 14347

DST#: 1

ATTN: Larry J.Richardson

Test Start: 2001.05.26 @ 08:06:02

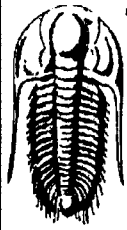
Tool Information

Drill Pipe:	Length: 4993.00 ft	Diameter: 3.80 inches	Volume: 70.04 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 250.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose:	100000.0 lb
			<u>Total Volume: 71.27 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	80000.00 lb
Depth to Top Packer:	5240.00 ft			Final	80000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	50.02 ft				
Tool Length:	70.02 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5221.00	
S.I. Tool	5.00			5226.00	
HMV	5.00			5231.00	
Packer	4.00			5235.00	20.00 Bottom Of Top Packer
Packer	5.00			5240.00	
Stubb	1.00			5241.00	
Perforations	3.00			5244.00	
C.O. Sub	1.00			5245.00	
Recorder	0.01	3227	Inside	5245.01	
Blank Spacing	29.00			5274.01	
C.O. Sub	1.00			5275.01	
Perforations	12.00			5287.01	
Recorder	0.01	13308	Outside	5287.02	
Bullnose	3.00			5290.02	50.02 Bottom Packers & Anchor

Total Tool Length: 70.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Co. Inc.

Ellis "L" #1

100 S.Main Suite 505
Wichita,Ks.67202-3738

15-29s-22w Ford

Job Ticket: 14347

DST#: 1

ATTN: Larry J.Richardson

Test Start: 2001.05.26 @ 08:06:02

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: 8.77 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
70.00	Mud	0.344

Total Length: 70.00 ft

Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

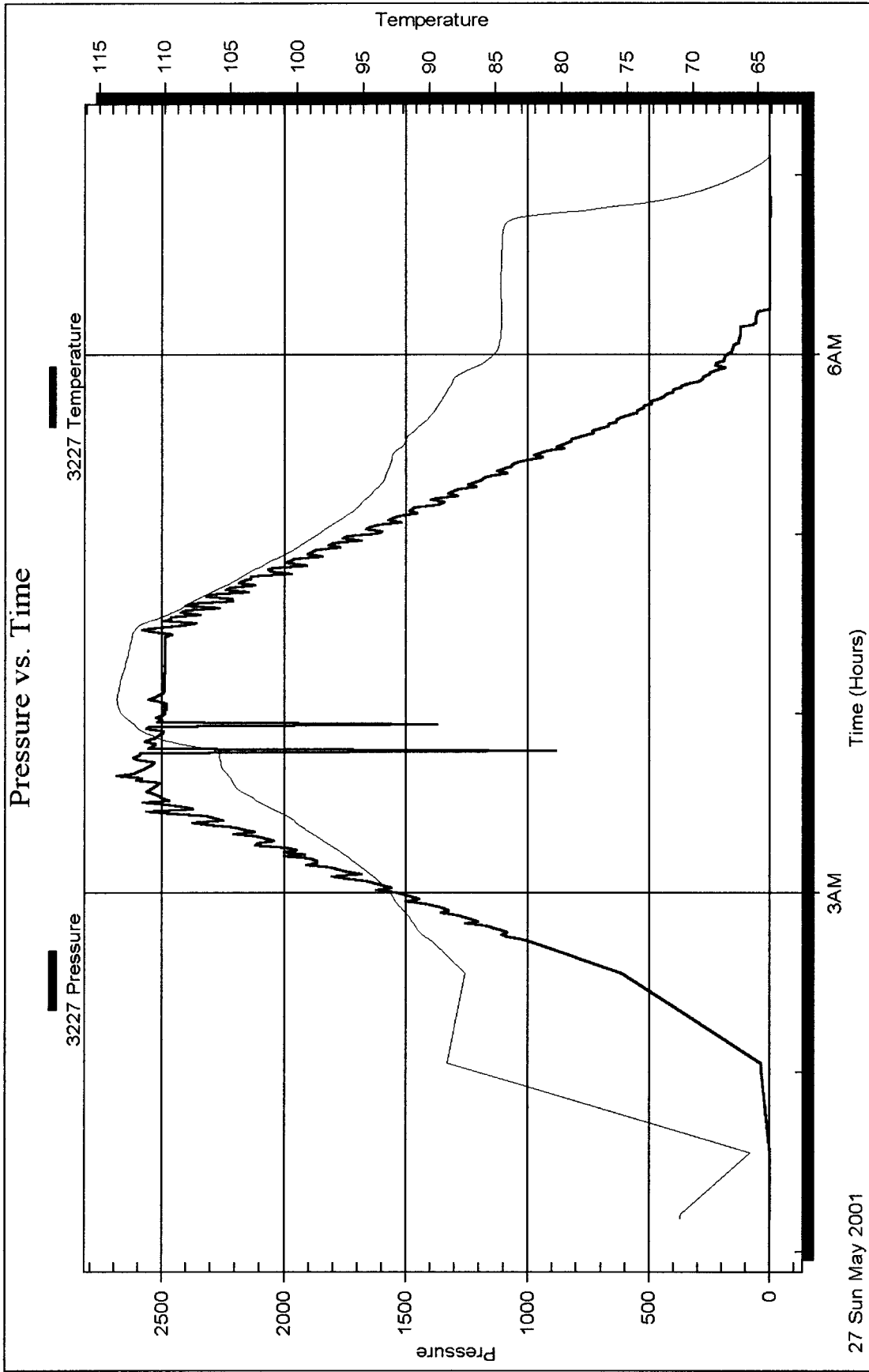
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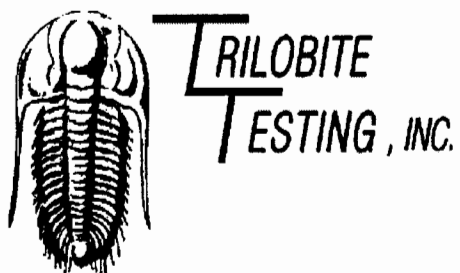
Inside

Pickrell Drilling Co. Inc.

15--29s--22w Ford

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling Co. Inc.**

100 S.Main Suite 505
Wichita,Ks.67202-3738

ATTN: Larry J.Richardson

15--29s--22w Ford

Ellis "L"-#1

Start Date: 2001.05.27 @ 00:30:00

End Date: 2001.05.27 @ 07:00:00

Job Ticket #: 14348 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Pickrell Drilling Co. Inc.

100 S.Main Suite 505
Wichita,Ks.67202-3738

ATTN: Larry J.Richardson

Ellis "L"-#1

15--29s--22w Ford

Job Ticket: 14348

DST#: 2

Test Start: 2001.05.27 @ 00:30:00

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:40:00

Time Test Ended: 07:00:00

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: **5292.00 ft (KB) To 5305.00 ft (KB) (TVD)**

Total Depth: 5305.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2495.00 ft (KB)

2490.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3227

Inside

Press@RunDepth: psig @ 5293.01 ft (KB)

Start Date: 2001.05.27

End Date:

2001.05.27

Capacity: 7000.00 psig

Last Calib.: 2001.01.29

Start Time: 01:10:45

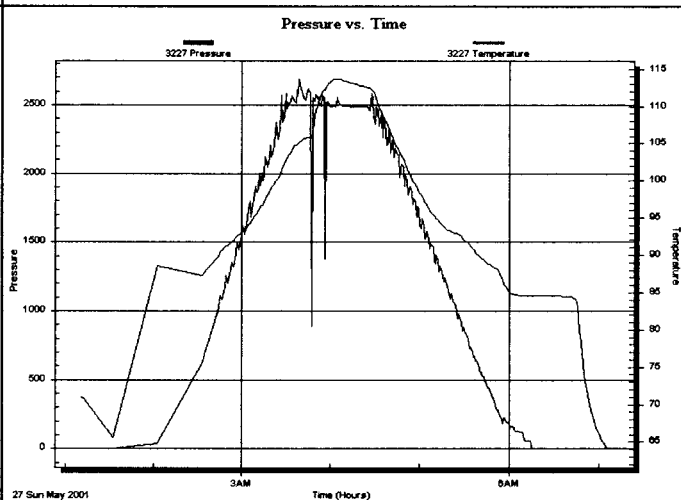
End Time:

07:06:28

Time On Btm:

Time Off Btm:

TEST COMMENT:



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drilling Co. Inc.

Ellis "L"-#1

100 S.Main Suite 505
Wichita,Ks.67202-3738

15-29s-22w Ford

Job Ticket: 14348

DST#:2

ATTN: Larry J.Richardson

Test Start: 2001.05.27 @ 00:30:00

Tool Information

Drill Pipe:	Length: 5052.00 ft	Diameter: 3.80 inches	Volume: 70.87 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 250.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose:	lb
			Total Volume: 72.10 bbl	Tool Chased	ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	lb
Depth to Top Packer:	5292.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	13.02 ft				
Tool Length:	33.02 ft				
Number of Packers:	1	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5273.00	
S.I. Tool	5.00			5278.00	
HMV	5.00			5283.00	
Packer	4.00			5287.00	20.00 Bottom Of Top Packer
Packer	5.00			5292.00	
Stubb	1.00			5293.00	
Recorder	0.01	3227	Inside	5293.01	
Perforations	9.00			5302.01	
Recorder	0.01	13308	Outside	5302.02	
Bullnose	3.00			5305.02	13.02 Bottom Packers & Anchor
Total Tool Length:		33.02			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Co. Inc.

Ellis "L" -#1

100 S.Main Suite 505
Wichita,Ks.67202-3738

15--29s--22w Ford

Job Ticket: 14348

DST#: 2

ATTN: Larry J.Richardson

Test Start: 2001.05.27 @ 00:30:00

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: 75.00 sec/qt

Cushion Volume:

bbl

Water Loss: 13.16 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

Total Length:

ft

Total Volume:

bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

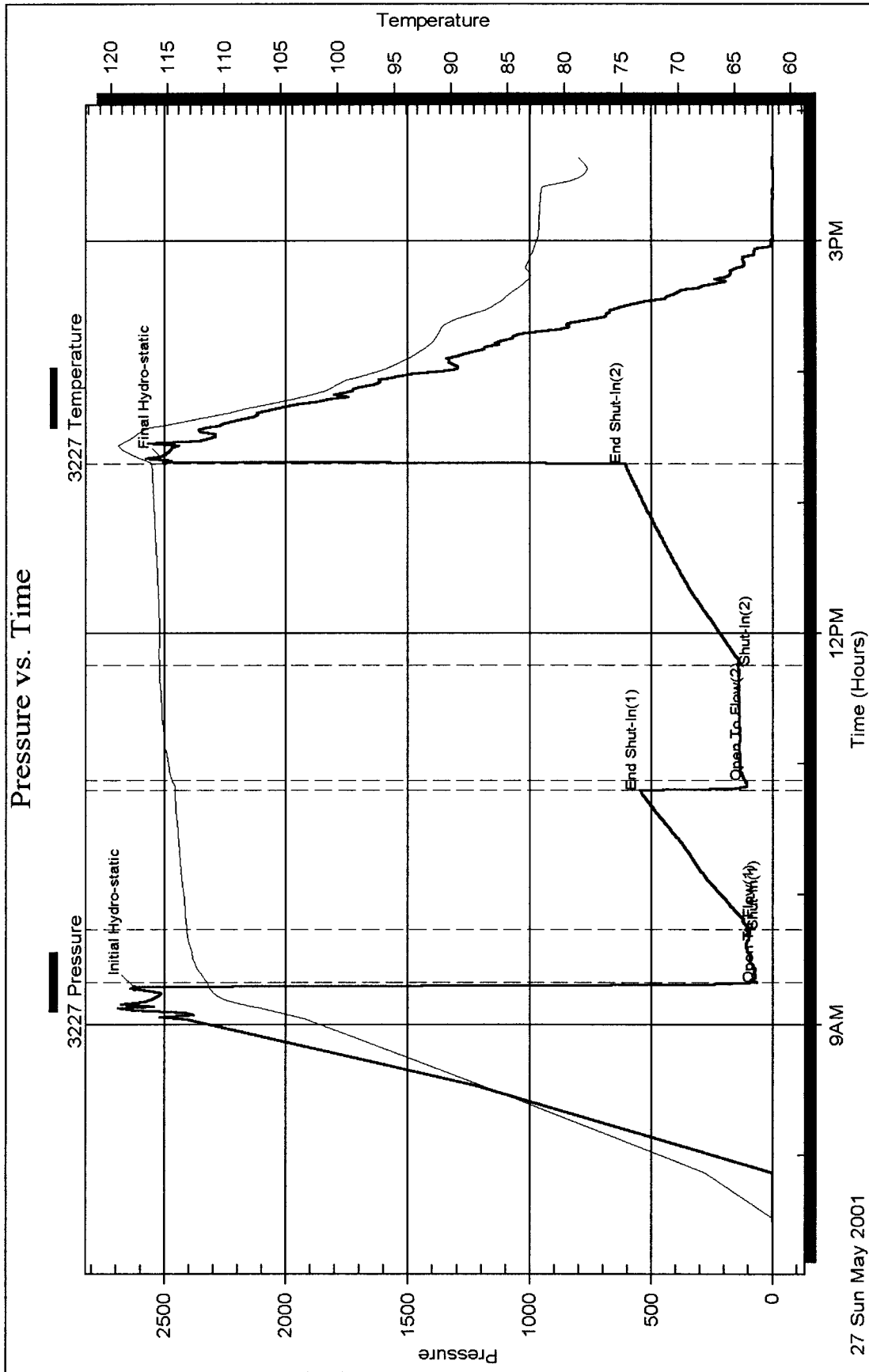
Serial #: 3227

Inside

Pickrell Drilling Co. Inc.

15--29s--22w Ford

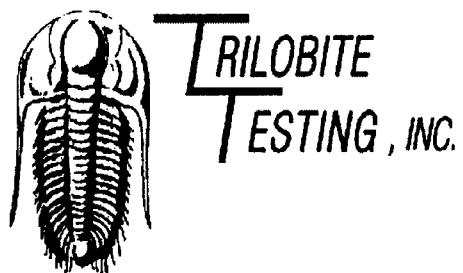
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 14348

Printed: 2001.05.29 @ 14:44:50 Page 5



DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling Co. Inc.**

100 S.Main Suite 505
Wichita,Ks.67202-3738

ATTN: Larry J.Richardson

15--29s--22w Ford

Ellis "L"-#1

Start Date: 2001.05.27 @ 07:29:42

End Date: 2001.05.27 @ 16:38:27

Job Ticket #: 14349 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Pickrell Drilling Co. Inc.

100 S. Main Suite 505
Wichita, Ks. 67202-3738

ATTN: Larry J. Richardson

Ellis "L" #1

15--29s--22w Ford

Job Ticket: 14349

DST #: 3

Test Start: 2001.05.27 @ 07:29:42

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:19:12

Time Test Ended: 16:38:27

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: **5242.00 ft (KB) To 5305.00 ft (KB) (TVD)**

Total Depth: 5305.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2495.00 ft (KB)

2490.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3227

Inside

Press@RunDepth: 145.60 psig @ 5246.01 ft (KB)

Start Date: 2001.05.27

End Date:

2001.05.27

Start Time: 07:29:44

End Time:

15:38:27

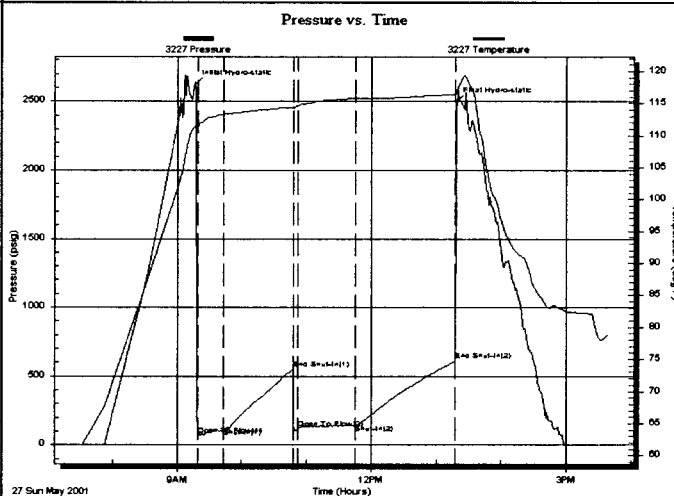
Capacity: 7000.00 psig

Last Calib.: 2001.01.27

Time On Btm: 2001.05.27 @ 09:16:42

Time Off Btm: 2001.05.27 @ 13:18:27

TEST COMMENT: IF-Strong B.O.B.in 30 Sec. ISI-No Blow
FF-Strong B.O.B.in 30 Sec. FSI- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2623.51	111.38	Initial Hydro-static
3	65.31	111.49	Open To Flow (1)
27	113.66	113.31	Shut-In(1)
91	549.15	114.36	End Shut-In(1)
96	116.46	114.61	Open To Flow (2)
149	145.60	115.73	Shut-In(2)
241	612.66	116.42	End Shut-In(2)
242	2497.46	116.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	G-SL-W-OCM 30%G 10%O 15%W 45%M	0.30
120.00	SL-W-OCM 15%O 10%W 75%M	0.59
95.00	Mud	0.69
2420.00	Gas in pipe	33.95

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drilling Co. Inc.

Ellis "L"-#1

100 S.Main Suite 505
Wichita,Ks.67202-3738

15--29s--22w Ford

Job Ticket: 14349

DST#: 3

ATTN: Larry J.Richardson

Test Start: 2001.05.27 @ 07:29:42

Tool Information

Drill Pipe:	Length: 4994.00 ft	Diameter: 3.80 inches	Volume: 70.05 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 250.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose:	90000.00 lb
			Total Volume: 71.28 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	80000.00 lb
Depth to Top Packer:	5242.00 ft			Final	80000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	63.02 ft				
Tool Length:	83.02 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

C.O. Sub	1.00			5223.00	
S.I. Tool	5.00			5228.00	
HMV	5.00			5233.00	
Packer	4.00			5237.00	20.00 Bottom Of Top Packer
Packer	5.00			5242.00	
Stubb	1.00			5243.00	
Perforations	2.00			5245.00	
C.O. Sub	1.00			5246.00	
Recorder	0.01	3227	Inside	5246.01	
Blank Spacing	31.00			5277.01	
C.O. Sub	1.00			5278.01	
Perforations	24.00			5302.01	
Recorder	0.01	13308	Outside	5302.02	
Bullnose	3.00			5305.02	63.02 Bottom Packers & Anchor

Total Tool Length: 83.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Co. Inc.

Ellis "L"-#1

100 S.Main Suite 505
Wichita,Ks.67202-3738

15--29s--22w Ford

Job Ticket: 14349

DST#: 3

ATTN: Larry J.Richardson

Test Start: 2001.05.27 @ 07:29:42

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:

24000 ppm

Viscosity: 75.00 sec/qt

Cushion Volume:

bbl

Water Loss: 13.17 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
60.00	G-SL-W-OCM 30%G 10%O 15%W 45%M	0.295
120.00	SL-W-OCM 15%O 10%W 75%M	0.590
95.00	Mud	0.695
2420.00	Gas in pipe	33.946

Total Length: 2695.00 ft

Total Volume: 35.526 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

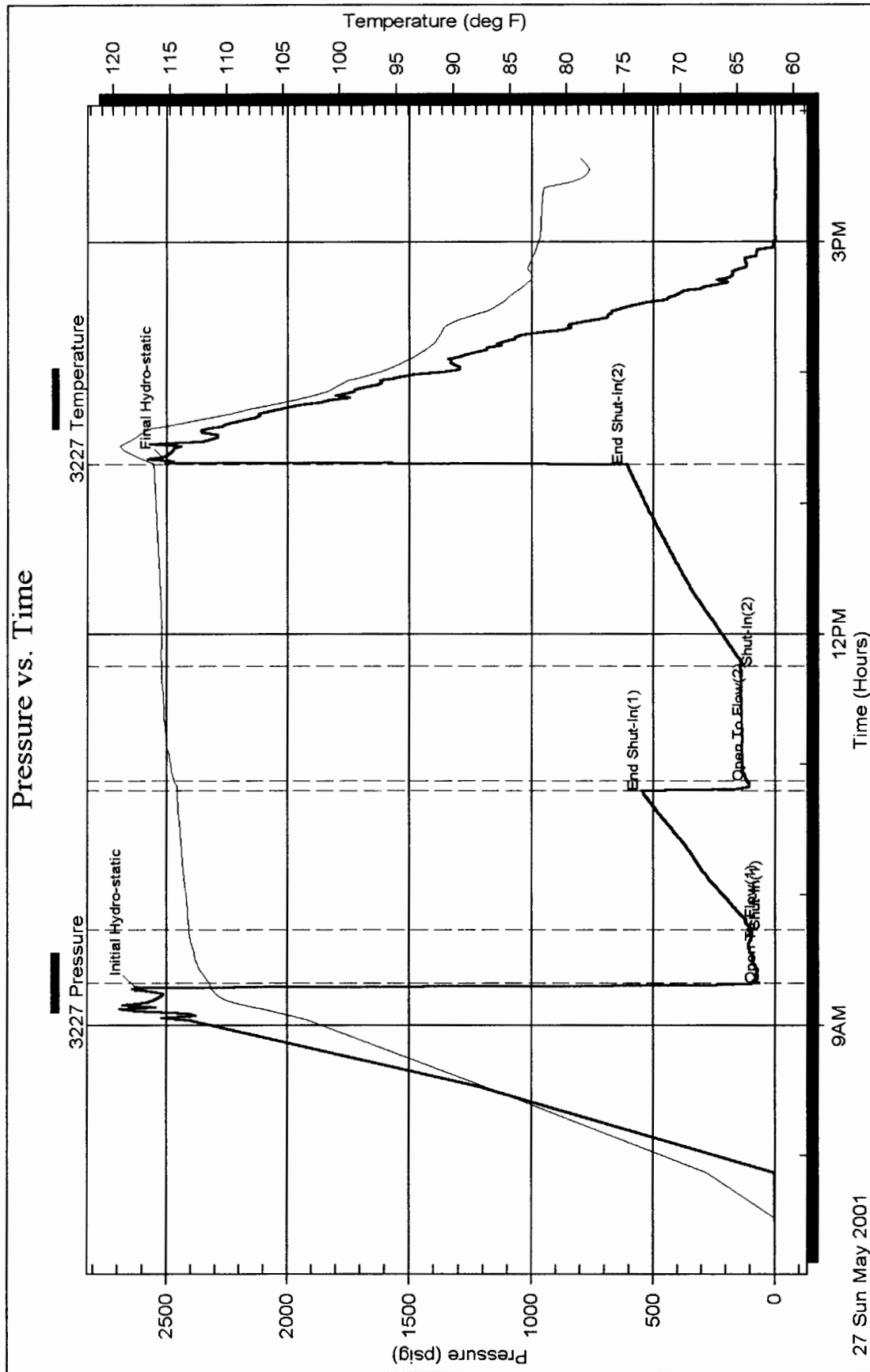
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



00000001

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00000003

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