15-007-22874

19-34s-11w



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Lotus Operating,Co.LLC**

100 S.Main suite 420
Wichita,Ks.67202

ATTN: Tim Hellman

19-34S-11W

#2 Fitzgerald

Start Date: 2005.02.26 @ 16:59:03
End Date: 2005.02.27 @ 01:05:18
Job Ticket #: 19944 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

Lotus Operating,Co.LLC

100 S.Main suite 420
Wichita,Ks.67202

ATTN: Tim Hellman

#2 Fitzgerald

19-34S-11W

Job Ticket: 19944 **DST#: 1**

Test Start: 2005.02.26 @ 16:59:03

GENERAL INFORMATION:

Formation: **Altamont**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:15:18
Time Test Ended: 01:05:18

Test Type: Conventional Bottom Hole
Tester: Darren L.Amerine
Unit No: 30

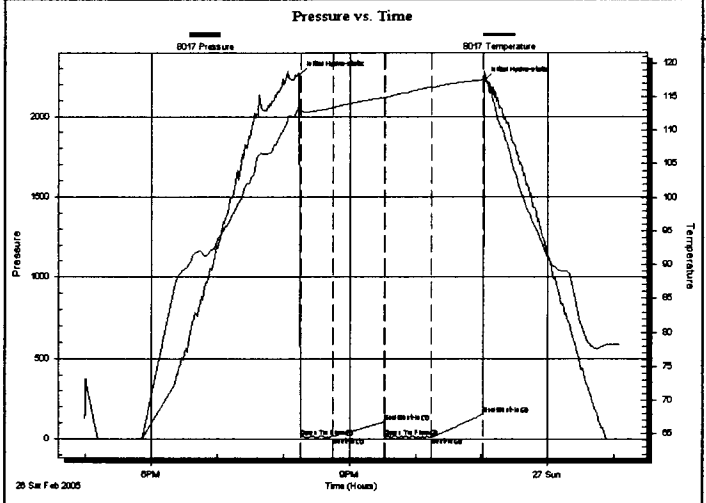
Interval: 4572.00 ft (KB) To 4594.00 ft (KB) (TVD)
Total Depth: 4594.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1422.00 ft (KB)
1411.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8017 **Inside**
Press@RunDepth: 15.61 psig @ 4574.00 ft (KB)
Start Date: 2005.02.26 End Date: 2005.02.27
Start Time: 16:59:04 End Time: 01:05:18

Capacity: 7000.00 psig
Last Calib.: 2005.02.27
Time On Btm: 2005.02.26 @ 20:14:18
Time Off Btm:

TEST COMMENT: IF:Weak surface blow built to 1/4"-1/2"in H2O bucket.
ISI:Bled down for 5 mins.no blow back.
FF:Weak blow built to 4-1/2"in H2O bucket.
FSI:Ble down for 15 mins.no blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2259.50	113.52	Initial Hydro-static
1	13.73	112.82	Open To Flow (1)
31	15.28	113.42	Shut-In(1)
77	108.76	114.90	End Shut-In(1)
78	13.76	114.90	Open To Flow (2)
120	15.61	116.50	Shut-In(2)
167	156.00	117.51	End Shut-In(2)
168	2223.46	118.85	Initial Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	120'of gip	0.00
5.00	SGCM	0.07

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lotus Operating,Co.LLC

100 S.Main suite 420
Wichita,Ks.67202

ATTN: Tim Hellman

#2 Fitzgerald

19-34S-11W

Job Ticket: 19944 **DST#: 1**

Test Start: 2005.02.26 @ 16:59:03

Tool Information

Drill Pipe:	Length:	4554.00 ft	Diameter:	3.80 inches	Volume:	63.88 bbl	Tool Weight:		2100.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		20000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		75000.00 lb
					Total Volume:	63.88 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		6.00 ft					String Weight:	Initial	65000.00 lb
Depth to Top Packer:		4572.00 ft						Final	65000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		22.00 ft							
Tool Length:		46.00 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			4549.00		
Shut In Tool	5.00			4554.00		
Hydraulic tool	5.00			4559.00		
Safety Joint	3.00			4562.00		
Packer	5.00			4567.00	24.00	Bottom Of Top Packer
Packer	5.00			4572.00		
Stubb	2.00			4574.00		
Recorder	0.00	8017	Inside	4574.00		
Anchor	17.00			4591.00		
Recorder	0.00	10991	Outside	4591.00		
Bullnose	3.00			4594.00	22.00	Bottom Packers & Anchor
Total Tool Length:	**46.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Lotus Operating,Co.LLC

100 S.Main suite 420
Wichita,Ks.67202

ATTN: Tim Hellman

#2 Fitzgerald

19-34S-11W

Job Ticket: 19944 **DST#: 1**

Test Start: 2005.02.26 @ 16:59:03

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:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.57 in³	Gas Cushion Type:			
Resistivity:	1.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	0.32 inches				

Recovery Information

Recovery Table

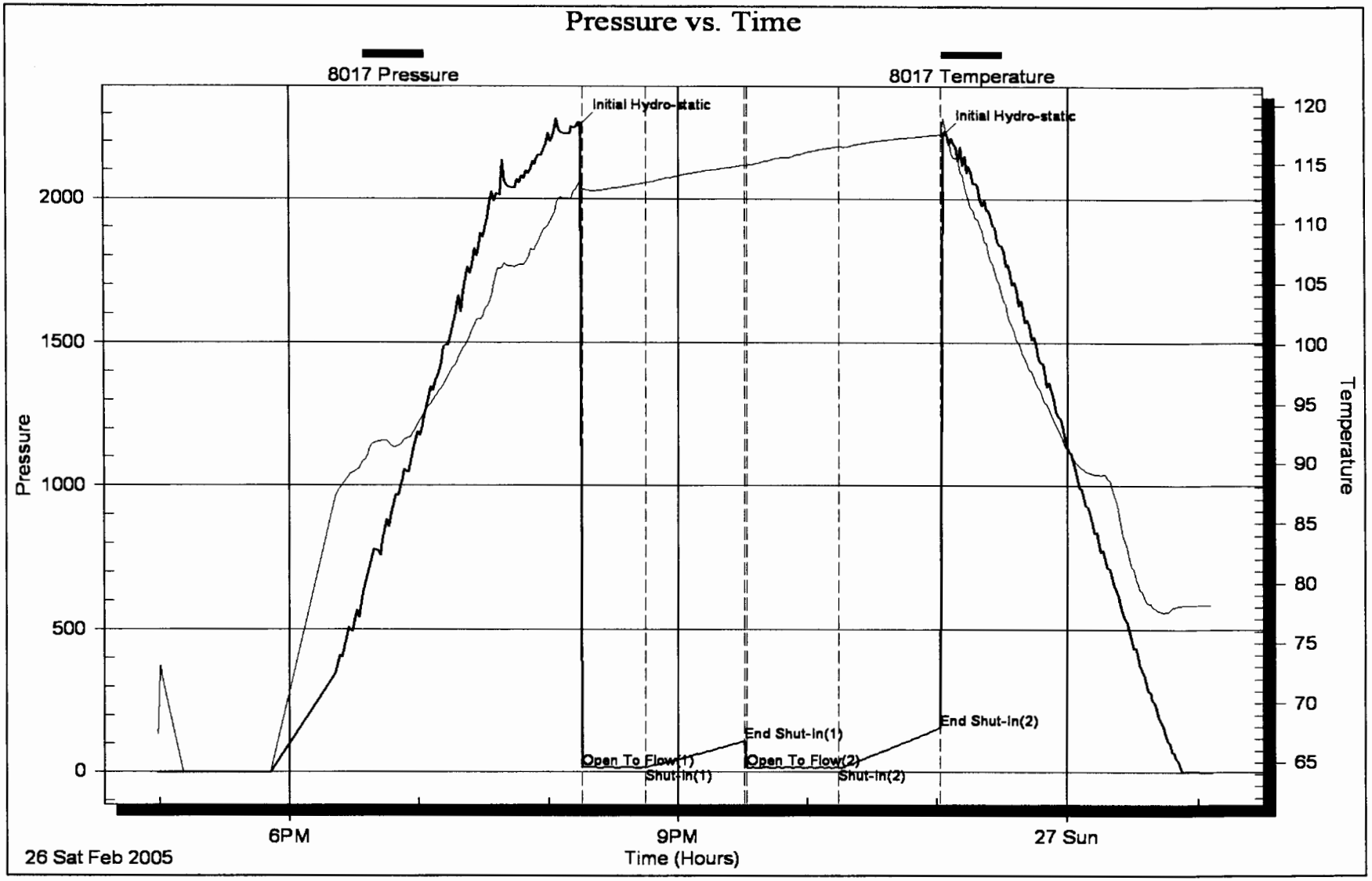
Length ft	Description	Volume bbl
0.00	120'of gip	0.000
5.00	SGCM	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
8017 Pressure
8017 Temperature
Initial Hydro-static
Initial Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
2000
1500
1000
500
0
120
115
110
105
100
95
90
85
80
75
70
65
6PM
9PM
27 Sun
26 Sat Feb 2005
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Lotus Operating,Co.LLC**

100 S.Main suite 420
Wichita,Ks.67202

ATTN: Tim Hellman

19-34S-11W

#2 Fitzgerald

Start Date: 2005.02.27 @ 15:18:30
End Date: 2005.02.28 @ 01:17:00
Job Ticket #: 19946 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

Lotus Operating,Co.LLC

100 S.Main suite 420
Wichita,Ks.67202

ATTN: Tim Hellman

#2 Fitzgerald

19-34S-11W

Job Ticket: 19946 **DST#: 2**

Test Start: 2005.02.27 @ 15:18:30

GENERAL INFORMATION:

Formation: **Cherokee Sd.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:33:00
Time Test Ended: 01:17:00

Test Type: Conventional Bottom Hole
Tester: Darren L.Amerine
Unit No: 30

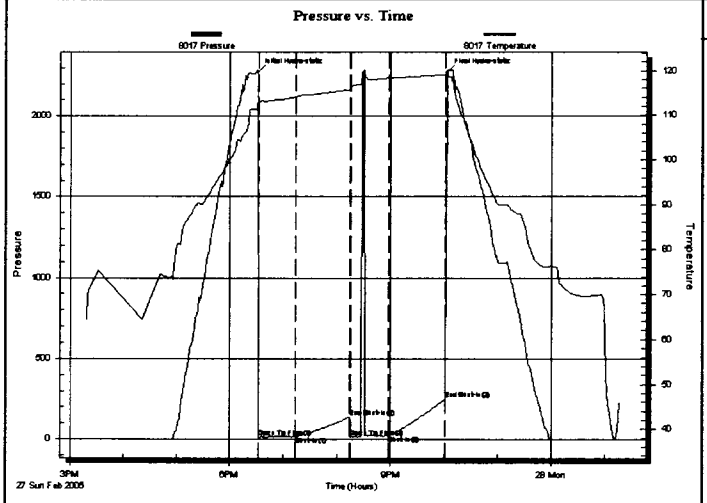
Interval: 4643.00 ft (KB) To 4663.00 ft (KB) (TVD)
Total Depth: 4663.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1422.00 ft (KB)
1411.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8017 **Inside**
Press@RunDepth: 22.59 psig @ 4645.00 ft (KB)
Start Date: 2005.02.27 End Date: 2005.02.28
Start Time: 15:18:31 End Time: 01:17:00

Capacity: 7000.00 psig
Last Calib.: 2005.02.28
Time On Btm: 2005.02.27 @ 18:31:30
Time Off Btm: 2005.02.27 @ 22:02:30

TEST COMMENT: IF:Weak blow built to 4"in H2O bucket slowly died off to 2"
ISI:Bled down for 30 mins.no blow back.
FF:Weak blow built to3"flush tool wek blow built to 1-1/2"in H2O bucket.
FSI:Bled down for 10 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2275.26	114.29	Initial Hydro-static
2	11.25	112.90	Open To Flow (1)
43	16.53	114.12	Shut-In(1)
103	140.24	115.75	End Shut-In(1)
104	14.67	116.11	Open To Flow (2)
146	22.59	118.36	Shut-In(2)
210	248.86	119.11	End Shut-In(2)
211	2274.02	120.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	161'of gip	0.00
25.00	SO&GCM 4%gas 2%oil 94%mud	0.35

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lotus Operating,Co.LLC

100 S.Main suite 420
Wichita,Ks.67202

ATTN: Tim Hellman

#2 Fitzgerald

19-34S-11W

Job Ticket: 19946 **DST#: 2**

Test Start: 2005.02.27 @ 15:18:30

Tool Information

Drill Pipe:	Length:	4648.00 ft	Diameter:	3.80 inches	Volume:	65.20 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
					Total Volume:	65.20 bbl	

Drill Pipe Above KB:	29.00 ft
Depth to Top Packer:	4643.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	20.00 ft
Tool Length:	44.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2100.00 lb
Weight set on Packer:	20000.00 lb
Weight to Pull Loose:	75000.00 lb
Tool Chased	1.50 ft
String Weight: Initial	67000.00 lb
Final	67000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4620.00		
Shut In Tool	5.00			4625.00		
Hydraulic tool	5.00			4630.00		
Safety Joint	3.00			4633.00		
Packer	5.00			4638.00	24.00	Bottom Of Top Packer
Packer	5.00			4643.00		
Stubb	2.00			4645.00		
Recorder	0.00	8017	Inside	4645.00		
Anchor	15.00			4660.00		
Recorder	0.00			4660.00		
Bullnose	3.00			4663.00	20.00	Bottom Packers & Anchor
Total Tool Length:	**44.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Lotus Operating,Co.LLC

100 S.Main suite 420
Wichita,Ks.67202

ATTN: Tim Hellman

#2 Fitzgerald

19-34S-11W

Job Ticket: 19946 **DST#: 2**

Test Start: 2005.02.27 @ 15:18:30

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:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.37 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7500.00 ppm				
Filter Cake:	0.32 inches				

Recovery Information

Recovery Table

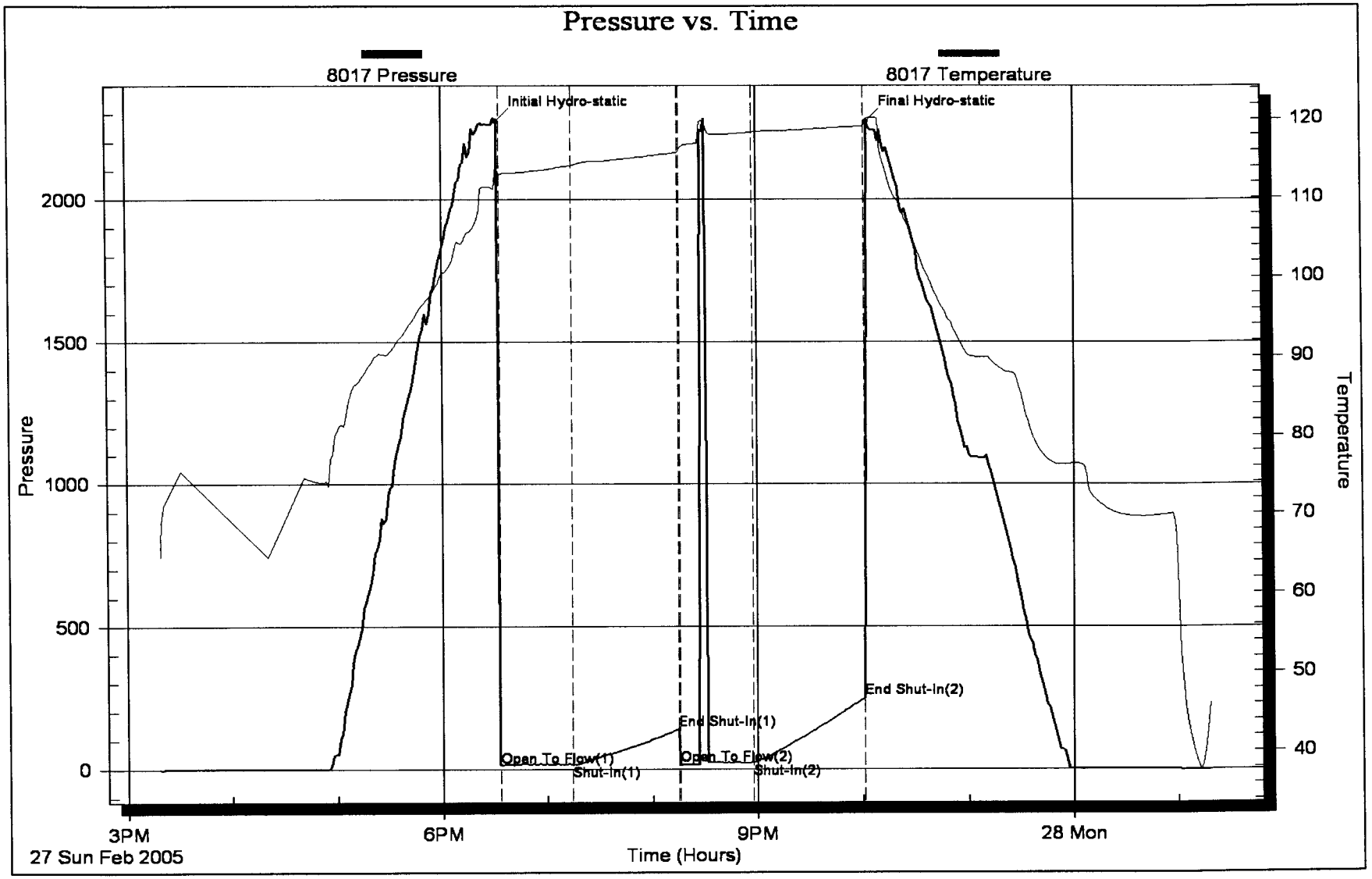
Length ft	Description	Volume bbl
0.00	161'of gip	0.000
25.00	SO&GCM 4%gas 2%oil 94%mud	0.351

Total Length: 25.00 ft Total Volume: 0.351 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
8017 Pressure
8017 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(2)
End Shut-In(1)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
2000
1500
1000
500
0
120
110
100
90
80
70
60
50
40
3PM
6PM
9PM
28 Mon
27 Sun Feb 2005
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Lotus Operating,Co.LLC**

100 S.Main suite 420
Wichita,Ks.67202

ATTN: Tim Hellman

19-34S-11W

#2 Fitzgerald

Start Date: 2005.02.28 @ 10:36:59

End Date: 2005.02.28 @ 20:08:14

Job Ticket #: 19946 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

DRILL STEM TEST REPORT

Lotus Operating,Co.LLC

100 S.Main suite 420
Wichita,Ks.67202

ATTN: Tim Hellman

#2 Fitzgerald

19-34S-11W

Job Ticket: 19946 **DST#: 3**

Test Start: 2005.02.28 @ 10:36:59

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:10:14
Time Test Ended: 20:08:14

Test Type: Conventional Bottom Hole
Tester: Darren L.Amerine
Unit No: 30

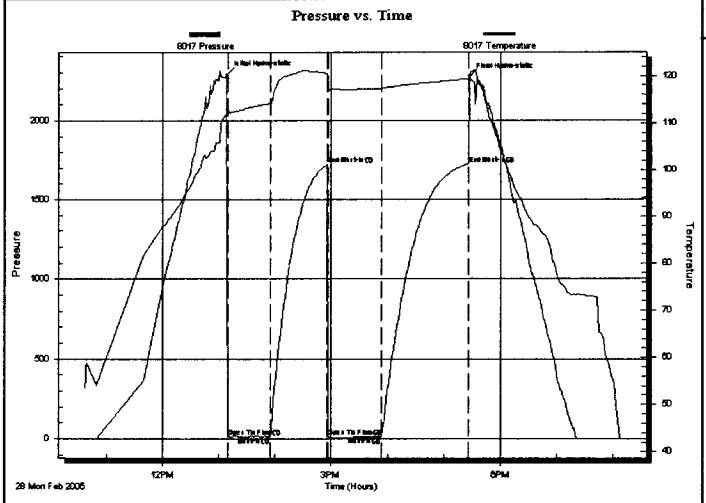
Interval: 4672.00 ft (KB) To 4685.00 ft (KB) (TVD)
Total Depth: 4685.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1422.00 ft (KB)
1411.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8017 **Inside**
Press@RunDepth: 10.01 psig @ 4674.00 ft (KB)
Start Date: 2005.02.28 End Date: 2005.02.28
Start Time: 10:37:00 End Time: 20:08:14

Capacity: 7000.00 psig
Last Calib.: 2005.02.28
Time On Btm: 2005.02.28 @ 13:08:44
Time Off Btm: 2005.02.28 @ 17:26:59

TEST COMMENT: IF:Strong blow b.o.b in 90 sec.
ISI:Bled down for 10 mins.no blow back.
FF:Strong blow b.o.b 15 sec.GTS in 5 mins.gauge gas!
FSI:Bled down for 10 mins.no blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2284.42	111.98	Initial Hydro-static
2	14.79	112.15	Open To Flow (1)
47	14.62	114.16	Shut-In(1)
107	1722.49	120.50	End Shut-In(1)
109	11.17	116.93	Open To Flow (2)
165	10.01	117.31	Shut-In(2)
257	1726.00	119.41	End Shut-In(2)
259	2272.05	120.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4668'of gip	0.00
10.00	SGCM 10%gas 90%mud	0.14

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	0.40	5.54
Last Gas Rate		0.00	
Max. Gas Rate	0.13	0.80	5.69

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lotus Operating,Co.LLC

100 S.Main suite 420
Wichita,Ks.67202

ATTN: Tim Hellman

#2 Fitzgerald

19-34S-11W

Job Ticket: 19946 **DST#: 3**

Test Start: 2005.02.28 @ 10:36:59

Tool Information

Drill Pipe:	Length:	4678.00 ft	Diameter:	3.80 inches	Volume:	65.62 bbl	Tool Weight:		2100.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		21000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		85000.00 lb
					Total Volume:	65.62 bbl	Tool Chased		1.00 ft
Drill Pipe Above KB:		30.00 ft					String Weight:	Initial	67000.00 lb
Depth to Top Packer:		4672.00 ft						Final	67000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		13.00 ft							
Tool Length:		37.00 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			4649.00		
Shut In Tool	5.00			4654.00		
Hydraulic tool	5.00			4659.00		
Safety Joint	3.00			4662.00		
Packer	5.00			4667.00	24.00	Bottom Of Top Packer
Packer	5.00			4672.00		
Stubb	2.00			4674.00		
Recorder	0.00	8017	Inside	4674.00		
Anchor	8.00			4682.00		
Recorder	0.00	10991	Outside	4682.00		
Bullnose	3.00			4685.00	13.00	Bottom Packers & Anchor
Total Tool Length:	**37.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Lotus Operating,Co.LLC

100 S.Main suite 420
Wichita,Ks.67202

ATTN: Tim Hellman

#2 Fitzgerald

19-34S-11W

Job Ticket: 19946 **DST#: 3**

Test Start: 2005.02.28 @ 10:36:59

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:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.58 in³	Gas Cushion Type:			
Resistivity:	0.09 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7000.00 ppm				
Filter Cake:	0.32 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	4668'of gip	0.000
10.00	SGCM 10%gas 90%mud	0.140

Total Length: 10.00 ft Total Volume: 0.140 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

Lotus Operating,Co.LLC

100 S.Main suite 420
Wichita,Ks.67202

ATTN: Tim Hellman

#2 Fitzgerald

19-34S-11W

Job Ticket: 19946 **DST#: 3**

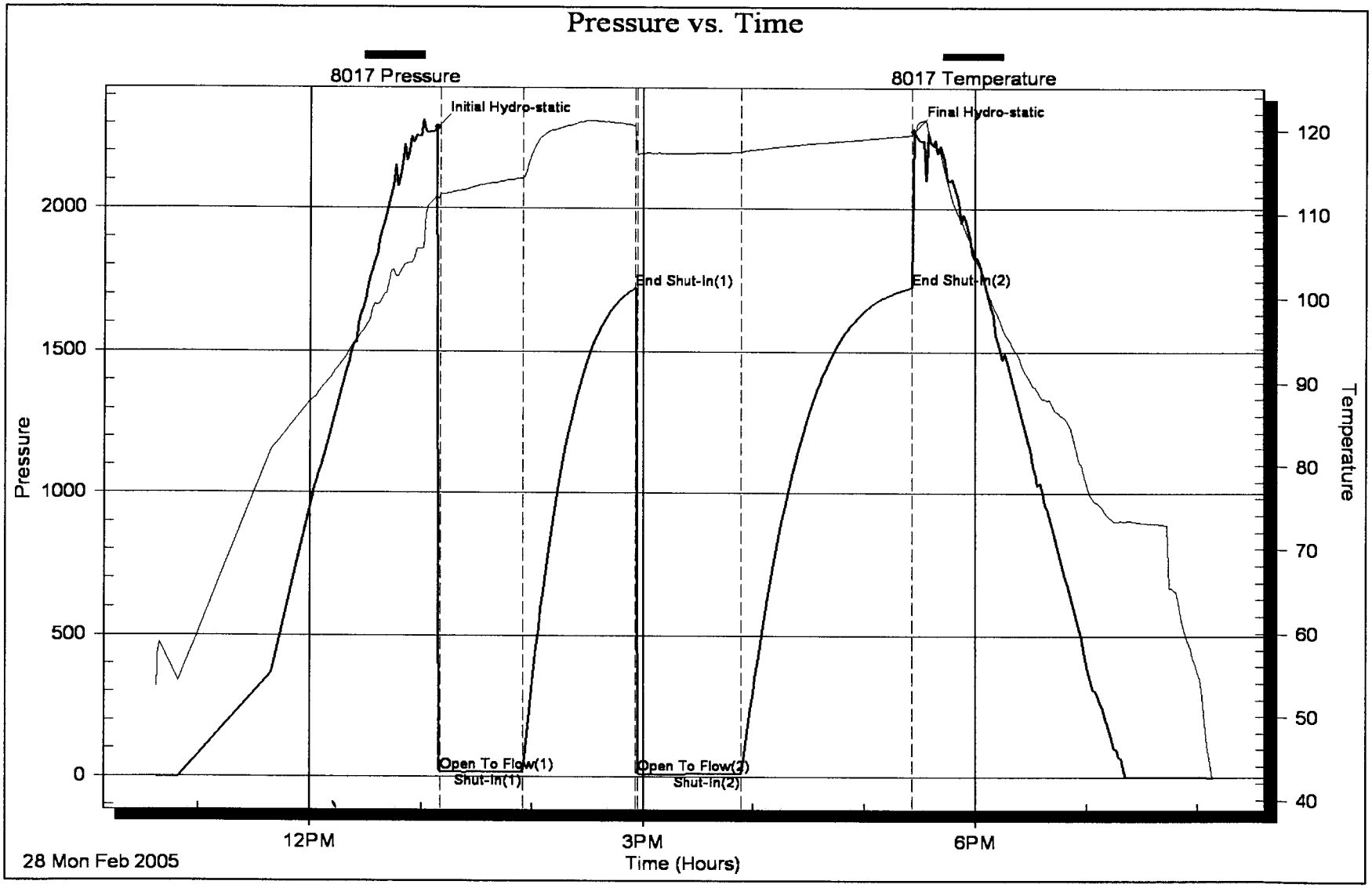
Test Start: 2005.02.28 @ 10:36:59

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	35	0.13	0.40	5.54
2	45	0.13	0.60	5.61
2	55	0.13	0.80	5.69
2	60	0.13	0.80	5.69
0	0	-999999.00	0.00	-999999.00


Pressure vs. Time
8017 Pressure
8017 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
2000
1500
1000
500
0
120
110
100
90
80
70
60
50
40
12PM
3PM
6PM
28 Mon Feb 2005
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Lotus Operating,Co.LLC**

100 S.Main suite 420
Wichita,Ks.67202

ATTN: Tim Hellman

19-34S-11W

#2 Fitzgerald

Start Date: 2005.03.01 @ 04:28:52

End Date: 2005.03.01 @ 16:01:22

Job Ticket #: 19947 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

DRILL STEM TEST REPORT

Lotus Operating,Co.LLC

100 S.Main suite 420
Wichita,Ks.67202

ATTN: Tim Hellman

#2 Fitzgerald

19-34S-11W

Job Ticket: 19947 **DST#: 4**

Test Start: 2005.03.01 @ 04:28:52

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:09:52
Time Test Ended: 16:01:22

Test Type: Conventional Bottom Hole
Tester: Darren L.Amerine
Unit No: 30

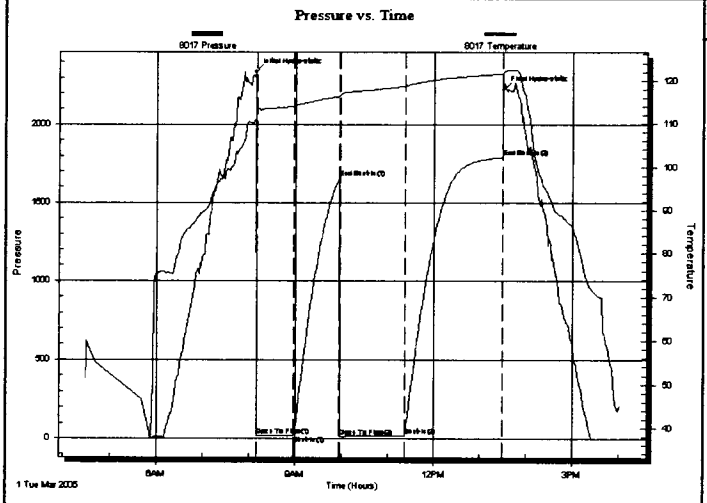
Interval: 4687.00 ft (KB) To 4704.00 ft (KB) (TVD)
Total Depth: 4704.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1422.00 ft (KB)
1411.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8017 **Inside**
Press@RunDepth: 17.66 psig @ 4693.00 ft (KB)
Start Date: 2005.03.01 End Date: 2005.03.01
Start Time: 04:28:53 End Time: 16:01:22

Capacity: 7000.00 psig
Last Calib.: 2005.03.01
Time On Btm: 2005.03.01 @ 08:08:22
Time Off Btm: 2005.03.01 @ 13:30:07

TEST COMMENT: IF:Fair to strong blow b.o.b in 5-1/2 mins.
ISI:Bled down for 10 mins.no blow back.
ISI:Strong blow b.o.b in 15 sec.
FSI:Bled down for 10 mins.built back to weak surface blow 1/4".GTS on shut in.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2337.58	111.13	Initial Hydro-static
2	15.68	112.71	Open To Flow (1)
50	19.19	114.12	Shut-In(1)
109	1657.01	116.37	End Shut-In(1)
110	14.65	116.68	Open To Flow (2)
194	17.66	118.71	Shut-In(2)
321	1789.70	121.54	End Shut-In(2)
322	2221.64	121.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4679'of gip	0.00
15.00	SGCM 10%gas 90%mud trace of oil	0.21

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lotus Operating,Co.LLC

100 S.Main suite 420
Wichita,Ks.67202

ATTN: Tim Hellman

#2 Fitzgerald

19-34S-11W

Job Ticket: 19947 **DST#: 4**

Test Start: 2005.03.01 @ 04:28:52

Tool Information

Drill Pipe:	Length:	4684.00 ft	Diameter:	3.80 inches	Volume:	65.70 bbl	Tool Weight:		2100.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		20000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		68000.00 lb
					Total Volume:	65.70 bbl	Tool Chased		1.50 ft
Drill Pipe Above KB:		20.00 ft					String Weight:	Initial	68000.00 lb
Depth to Top Packer:		4687.00 ft						Final	68000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		17.00 ft							
Tool Length:		40.00 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	0.00			4664.00		
Shut In Tool	5.00			4669.00		
Hydraulic tool	5.00			4674.00		
Safety Joint	3.00			4677.00		
Packer	5.00			4682.00	23.00	Bottom Of Top Packer
Packer	5.00			4687.00		
Stubb	2.00			4689.00		
Anchor	4.00			4693.00		
Recorder	0.00	8017	Inside	4693.00		
Anchor	8.00			4701.00		
Recorder	0.00	10991	Outside	4701.00		
Bullnose	3.00			4704.00	17.00	Bottom Packers & Anchor
Total Tool Length:	**40.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Lotus Operating,Co.LLC

100 S.Main suite 420
Wichita,Ks.67202

ATTN: Tim Hellman

#2 Fitzgerald

19-34S-11W

Job Ticket: 19947 **DST#: 4**

Test Start: 2005.03.01 @ 04:28:52

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:	60.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.99 in³	Gas Cushion Type:			
Resistivity:	0.08 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	9000.00 ppm				
Filter Cake:	0.32 inches				

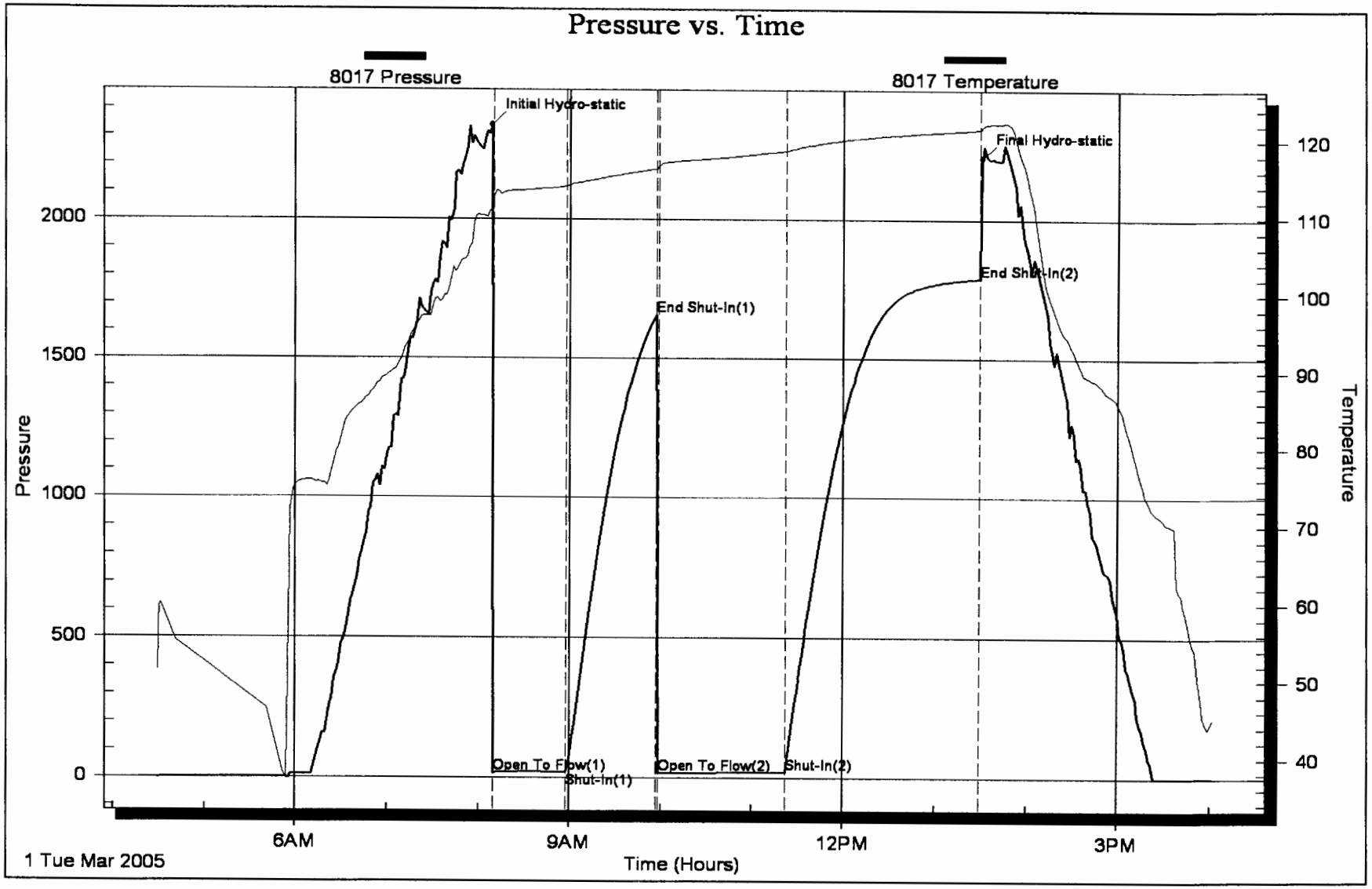
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	4679'of gip	0.000
15.00	SGCM 10%gas 90%mud trace of oil	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
8017 Pressure
8017 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
2000
1500
1000
500
0
120
110
100
90
80
70
60
50
40
6AM
9AM
12PM
3PM
1 Tue Mar 2005
Time (Hours)

TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

IN 7241

No. 19944

05/03

Test Ticket

Well Name & No. #2 Fitzgerald Test No. # 1 Date 2-26-05

Company Lotus Operating, Co. LLC. 100 S Main Zone Tested Altamont

Address Suite 420 Wichita, Ks 67202 Elevation 1422 KB 1411 GL

Co. Rep / Geo. Tim Hellman Cont. Duke #1 Est. Ft. of Pay _____ Por. _____ %

Location: Sec. 19 Twp. 34S Rge. 11W Co. Barber, Co. State Ks

No. of Copies 5 Disbtribution Sheet (Y, N) — Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 4572' - 4594' Initial Str Wt./Lbs. 65,000 Unseated Str Wt/Lbs. 65,000

Anchor Length 22' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. _____

Top Packer Depth 4567' Tool Weight 2100

Bottom Packer Depth 4572' Hole Size 7 7/8" — Rubber Size 6 3/4" —

Total Depth 4594' Wt. Pipe Run N/A Drill Collar Run N/A

Mud Wt. 9.3 LCM 0 Vis. 50 WL 9.6 Drill Pipe Size 4 1/2 XH Ft. Run 4554.0

Blow Description IF: Weak blow built 1/4" - 1/2" in #20 bucket

ISI Bled down for 5 mins. No blow back.

FF: Weak blow built to 4 1/2 in #20 bucket.

FSI Bled down 15 mins. No blow back

Recovery - Total Feet 5 GIP 120' Ft. in DC N/A Ft. in DP 5

Rec. 5'	Feet of SOCM	4 %gas	%oil	%water	96 %mud
Rec. 120'	Feet of GTP	%gas	%oil	%water	%mud
Rec.	Feet of	%gas	%oil	%water	%mud
Rec.	Feet of	%gas	%oil	%water	%mud
Rec.	Feet of	%gas	%oil	%water	%mud

BHT 118° °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 4,000 ppm System

	AK-1 Alpine				
(A) Initital Hydrostatic Mud	2260 PSI	Recorder No.	8617	Test —	1000
(B) First Initial Flow Pressure	14 PSI	(depth)	4574'	Elec. Rec. —	
(C) First Final Flow Pressure	15 PSI	Recorder No.	10991	Jars	
(D) Initial Shut-In Pressure	109 PSI	(depth)	4591'	Safety Jt. —	50
(E) Second Initial Flow Pressure	14 PSI	Recorder No.		Circ Sub	
(F) Second Final Flow Pressure	16 PSI	(depth)		Sampler	
(G) Final Shut-In Pressure	156 PSI	**Initial Opening**	30	Straddle	
(Q) Final Hydrostatic Mud	2223 PSI	Initial Shut-In	45	Ext. Packer	
		Final Flow	30	Shale Packer	
		Final Shut-In	45	Mileage 52	52
		T-On Location	1430	Sub Total:	1102
		T-Started	1659	Std. By 1.5 hrs	45
		T-Open	2015	Other	
		T-Pulled	2245	Total:	1147
		T-Out	0105		

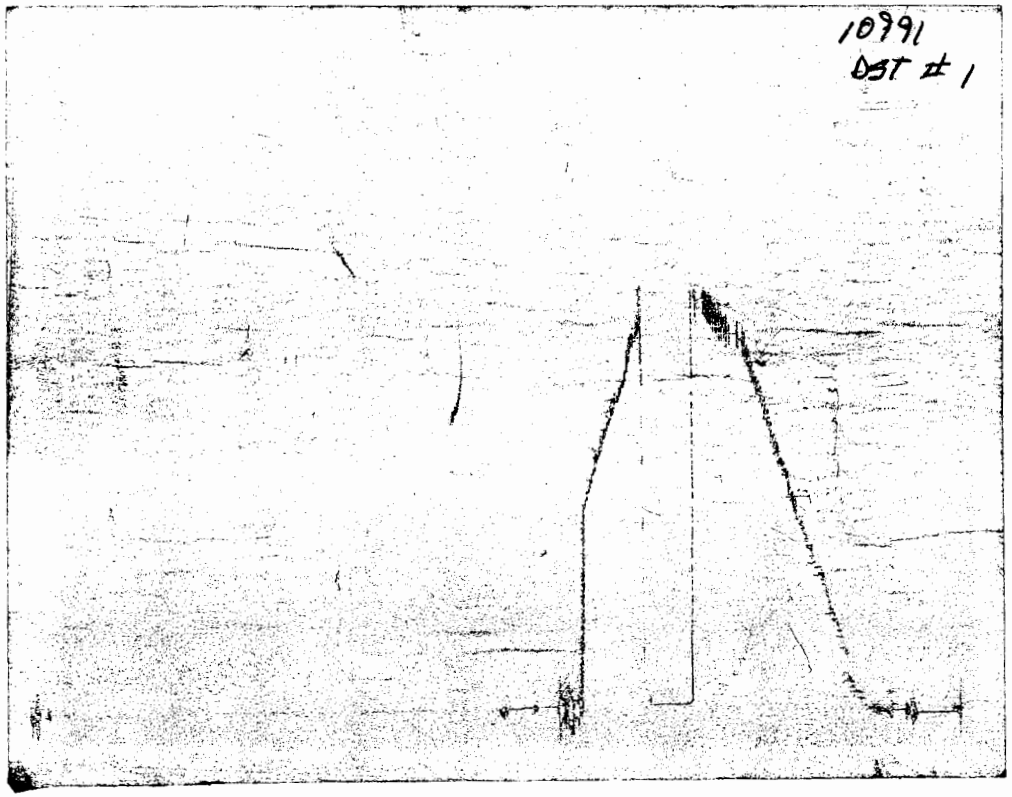
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Approved By Tim Hellman

Our Representative Darren Lemons

CHART PAGE

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



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

№ 19945

05/03

Test Ticket

Well Name & No. #2 Fitzgerald Test No. #2 Date 2-27-05

Company Lotus Operating Co. LLC 100 S main St. 420 Zone Tested Cherokee Sd

Address Wichita, Ks 67202 Elevation 1422 KB 1411 GL

Co. Rep / Geo. Tim Hellman Cont. Duke #1 Est. Ft. of Pay _____ Por. _____ %

Location: Sec. 19 Twp. 34S Rge. 11W Co. Barber Co. State Ks

No. of Copies 5 Disbtribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4643' - 4663' Initial Str Wt./Lbs. 67000 Unseated Str Wt/Lbs. 67000

Anchor Length 20' Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 75000

Top Packer Depth 4638' Tool Weight 2100

Bottom Packer Depth 4643' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓

Total Depth 4663' Wt. Pipe Run N/A Drill Collar Run N/A

Mud Wt. 9.3 LCM 2½# Vis. 56 WL 10.4 Drill Pipe Size 4½ XH Ft. Run 4648'

Blow Description IF: Weak blow built 4" in H20 bucket slowly died off to 2"
ISI: Bled down for 30 mins No blow back
FF: Weak blow built to 3" flush tool Weak blow
FSI: Bled down for 10 mins No blow back

Recovery - Total Feet 25' GIP 161' Ft. in DC N/A Ft. in DP 25

Rec.	25	Feet of	SOFGCM	4 %gas	2 %oil	%water	94 %mud
Rec.	161'	Feet of	GIP	%gas	%oil	%water	%mud
Rec.		Feet of		%gas	%oil	%water	%mud
Rec.		Feet of		%gas	%oil	%water	%mud
Rec.		Feet of		%gas	%oil	%water	%mud

BHT 119° °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 7,500 ppm System

	AK-1 Alpine				
(A) Initital Hydrostatic Mud	2275 PSI	Recorder No.	8817	Test ✓	1000
(B) First Initial Flow Pressure	11 PSI	(depth)	4645'	Elec. Rec. ✓	
(C) First Final Flow Pressure	17 PSI	Recorder No.	10991	Jars	
(D) Initial Shut-In Pressure	140 PSI	(depth)	4660	Safety Jt. ✓	50
(E) Second Initial Flow Pressure	15 PSI	Recorder No.		Circ Sub	
(F) Second Final Flow Pressure	23 PSI	(depth)		Sampler	
(G) Final Shut-In Pressure	249 PSI	**Initial Opening**	45	Straddle	
(Q) Final Hydrostatic Mud	2274 PSI	Initial Shut-In	60	Ext. Packer	
		Final Flow	10 - flush 35	Shale Packer	
		Final Shut-In	60	Mileage	52
		T-On Location	1430	Sub Total:	1102
		T-Started	1518	Std. By 1.75	52.50
		T-Open	1830	Other	
		T-Pulled	2200	Total:	$ 1154.50
		T-Out	0117		

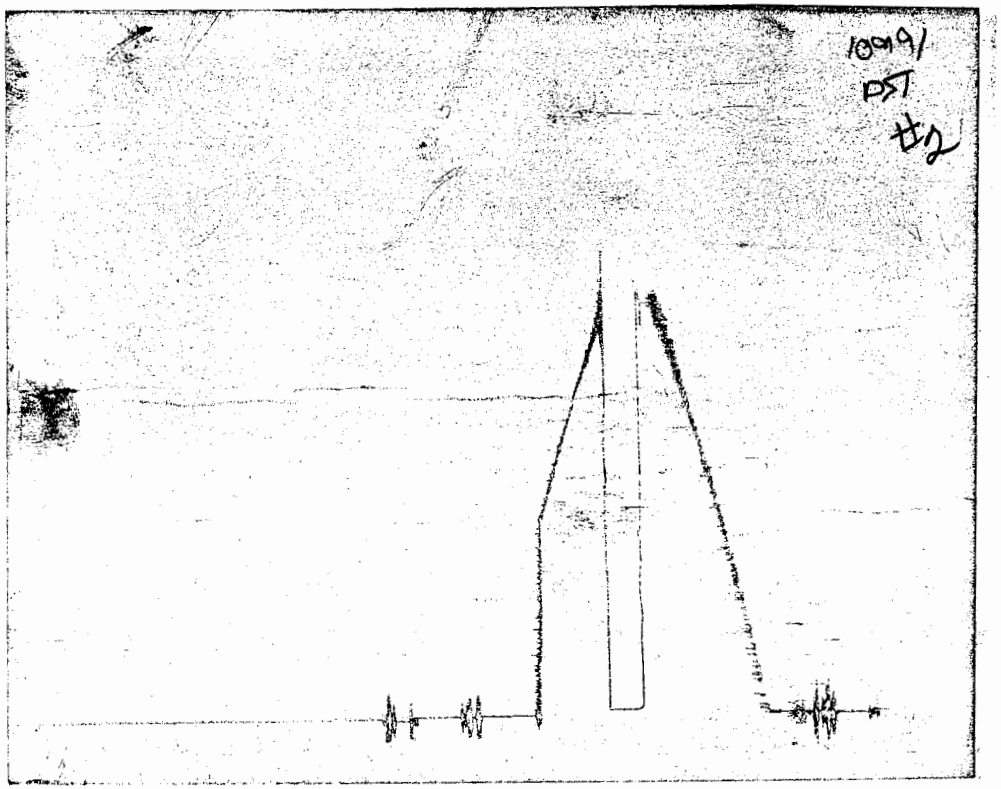
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Approved By Tim Hellman

Our Representative Darren Semeins

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

05/03

№ 19946

Test Ticket

Well Name & No. #2 Fitzgerald Test No. #3 Date 2-28-05

Company Lotus Operating, Co. LLC 1005 Main Zone Tested M.55

Address St. 420 Wichita, KS. 67202 Elevation 1422 KB 1411 GL

Co. Rep / Geo. Tim Hellman Cont. Duke #1 Est. Ft. of Pay _____ Por. _____ %

Location: Sec. 19 Twp. 34S Rge. 11W Co. Barber, Co. State Ks

No. of Copies _____ Disbtribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) —

Interval Tested 4672 - 4685 Initial Str Wt./Lbs. 67,000 Unseated Str Wt/Lbs. 67,000

Anchor Length 13' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs 85,000

Top Packer Depth 4667 Tool Weight 2100

Bottom Packer Depth 4672 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓

Total Depth 4685 Wt. Pipe Run N/A Drill Collar Run N/A

Mud Wt. 9.2 LCM 2# Vis. 51 WL 9.6 Drill Pipe Size 4½ XH Ft. Run 4678'

Blow Description IF: Strong blow B.O.B in 90 sec.
ISI: Bled down for 10 mins. No blow back.
FF: Strong blow B.O.B in 15 sec. GTS in 5 mins. Gauge Gas'
FSI: Bled down for 10 mins.

Recovery - Total Feet 10' GIP 4668 Ft. in DC N/A Ft. in DP 10'

Rec. 10'	Feet of SGCM	10 %gas	%oil	%water	90 %mud
Rec. 4668'	Feet of GTP	%gas	%oil	%water	%mud
Rec.	Feet of	%gas	%oil	%water	%mud
Rec.	Feet of	%gas	%oil	%water	%mud
Rec.	Feet of	%gas	%oil	%water	%mud

BHT 119 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 7000 ppm System

	AK-1	Alpine					
(A) Initital Hydrostatic Mud		2284	PSI	Recorder No.	8017	Test ✓	1000
(B) First Initial Flow Pressure		15	PSI	(depth)	4674	Elec. Rec. ✓	
(C) First Final Flow Pressure		15	PSI	Recorder No.	10991	Jars	
(D) Initial Shut-In Pressure		1722	PSI	(depth)	4682'	Safety Jt. ✓	50
(E) Second Initial Flow Pressure		11	PSI	Recorder No.		Circ Sub	
(F) Second Final Flow Pressure		10	PSI	(depth)		Sampler	
(G) Final Shut-In Pressure		1726	PSI	**Initial Opening**	45	Straddle	
(Q) Final Hydrostatic Mud		2272	PSI	Initial Shut-In	60	Ext. Packer	
				Final Flow	60	Shale Packer	
				Final Shut-In	90	Mileage	52
				T-On Location	1015	Sub Total:	1102
				T-Started	1036	Std. By 3/4	22.50
				T-Open	1310	Other	
				T-Pulled	1725	Total:	$ 1124.50
				T-Out	2000		

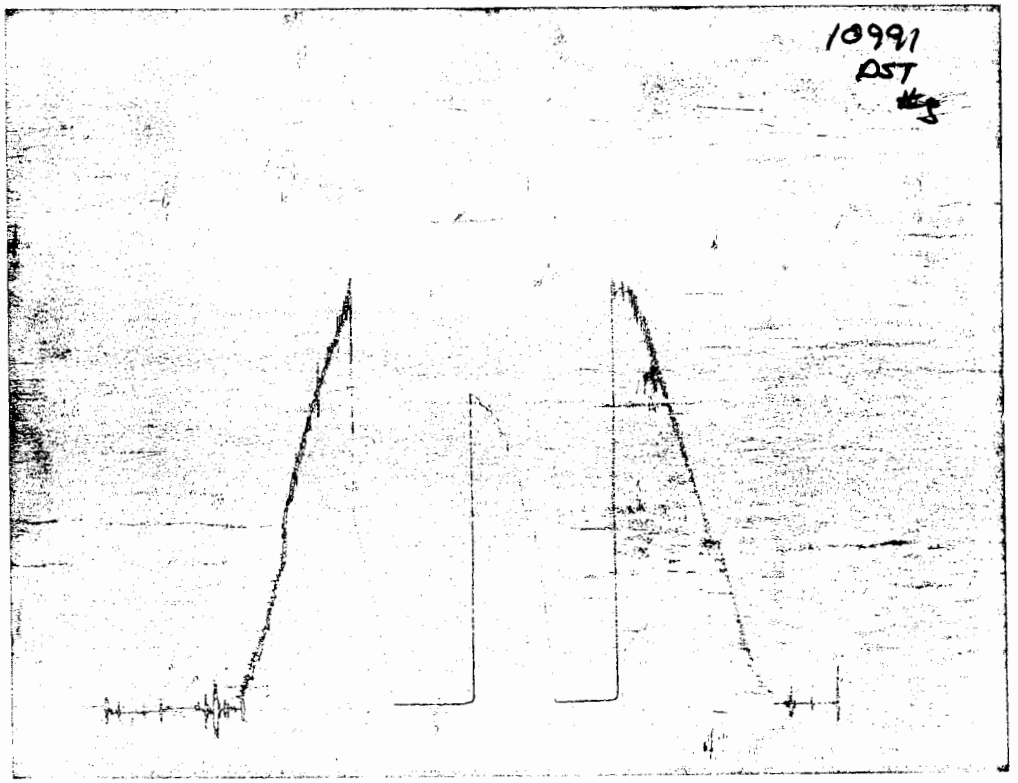
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Approved By Tim Hellman

Our Representative Darren Gomez

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

05/03

№ 19947

Test Ticket

Well Name & No. #2 Fitzgerald Test No. #4 Date 3-1-05

Company Lotus Operating, Co. LLC 100's Main Zone Tested Miss.

Address 5th 420 Wichita, Ks. 67202 Elevation 1422 KB 1411 GL

Co. Rep / Geo. Tim Hellman Cont. Duke #1 Est. Ft. of Pay _____ Por. _____ %

Location: Sec. 19 Twp. 34S Rge. 11W Co. Barber, Co. State KS

No. of Copies _____ Disbtribution Sheet (Y, N) _____ Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 4687' - 4704' Initial Str Wt./Lbs. 68,000 Unseated Str Wt/Lbs. 68,000

Anchor Length 17 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 68000

Top Packer Depth 4682' Tool Weight 2100

Bottom Packer Depth 4687' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓

Total Depth 4704' Wt. Pipe Run N/A Drill Collar Run N/A

Mud Wt. 9.3 LCM 2½# Vis. 60 WL 10.0 Drill Pipe Size 4½ XH Ft. Run 4684'

Blow Description IF: Fair to strong blow B.O.B in 5½ mins

FSI: Bled down for 10 mins. No blow back.

FF: Strong blow B.O.B in 15 sec. 6/5 on the final shutin.

FSI: Bled down for 10 mins. Built back to Weak Surface blow ¼"

Recovery - Total Feet 15' GIP 4679' Ft. in DC N/A Ft. in DP 15'

Rec. 15'	Feet of SOCM	10 %gas	Trace %oil	%water	90 %mud
Rec. 4679'	Feet of GIP	%gas	%oil	%water	%mud
Rec.	Feet of	%gas	%oil	%water	%mud
Rec.	Feet of	%gas	%oil	%water	%mud
Rec.	Feet of	%gas	%oil	%water	%mud

BHT 122° °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 9,000 ppm System

	AK-1	Alpine					
(A) Initial Hydrostatic Mud		2338 PSI	Recorder No.	8017	Test	✓	1000
(B) First Initial Flow Pressure		16 PSI	(depth)	4693'	Elec. Rec.	✓	
(C) First Final Flow Pressure		19 PSI	Recorder No.	10991	Jars		
(D) Initial Shut-In Pressure		1657 PSI	(depth)	4701'	Safety Jt.	✓	50
(E) Second Initial Flow Pressure		15 PSI	Recorder No.		Circ Sub		
(F) Second Final Flow Pressure		18 PSI	(depth)		Sampler		
(G) Final Shut-In Pressure		1790 PSI	**Initial Opening**	45	Straddle		
(Q) Final Hydrostatic Mud		2222 PSI	Initial Shut-In	60	Ext. Packer		
			Final Flow	90	Shale Packer		
			Final Shut-In	120	Mileage		52
			T-On Location	0345	Sub Total:		1102
			T-Started	0428	Std. By 3¼		97.50
			T-Open	0810	Other		
			T-Pulled	1225	Total:		$ 1199.50
			T-Out	1601			

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Approved By _____

Our Representative Darren Thomas

CHART PAGE

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