

DRILL STEM TEST REPORT

Prepared For: **Bryce Hayes Oil & Gas**

P.O.Box 108
Attica, Ks. 67009-0108

ATTN: Bob O'Dell

24-32S-10W

McDaniel "B"#1

Start Date: 2005.02.22 @ 21:32:57

End Date: 2005.02.23 @ 01:54:42

Job Ticket #: 19941 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

Bryce Hayes Oil & Gas

McDaniel "B" #1

P.O.Box 108
Attica, Ks. 67009-0108

24-32S-10W

Job Ticket: 19941

DST#: 1

ATTN: Bob O'Dell

Test Start: 2005.02.22 @ 21:32:57

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:42:42

Time Test Ended: 01:54:42

Test Type: Conventional Bottom Hole

Tester: Darren L. Amerine

Unit No: 30

Interval: **4332.00 ft (KB) To 4348.00 ft (KB) (TVD)**

Reference Elevations: 1447.00 ft (KB)

Total Depth: 4348.00 ft (KB) (TVD)

1436.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

Serial #: 6625 Inside

Press@RunDepth: psig @ 4338.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2005.02.22 End Date: 2005.02.23

Last Calib.: 2005.02.23

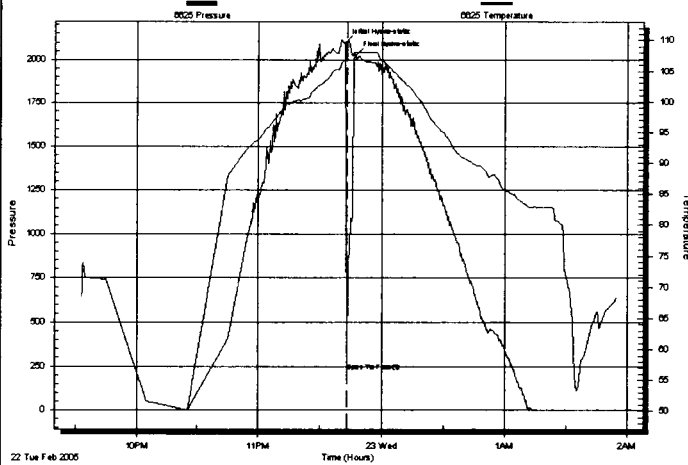
Start Time: 21:33:00 End Time: 01:54:42

Time On Btm: 2005.02.22 @ 23:41:42

Time Off Btm: 2005.02.22 @ 23:46:57

TEST COMMENT: F: Strong blow b.o.b in 20 sec. Packer failure pull tool.

Pressure vs. Time



PRESSURE SUMMARY

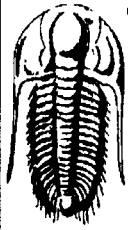
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2094.69	106.74	Initial Hydro-static
1	219.29	109.18	Open To Flow (1)
6	2025.03	108.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1100.00	100 - Mud	15.43

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bryce Hayes Oil & Gas

McDaniel "B" #1

P.O.Box 108
Attica, Ks. 67009-0108

24-32S-10W

Job Ticket: 19941

DST#: 1

ATTN: Bob O'Dell

Test Start: 2005.02.22 @ 21:32:57

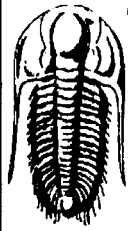
Tool Information

Drill Pipe:	Length: 4323.00 ft	Diameter: 3.80 inches	Volume: 60.64 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: 58000.00 lb
			<u>Total Volume: 60.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4332.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 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			4312.00	
Shut In Tool	5.00			4317.00	
Hydraulic tool	5.00			4322.00	
Packer	5.00			4327.00	21.00 Bottom Of Top Packer
Packer	5.00			4332.00	
Stubb	1.00			4333.00	
Anchor	5.00			4338.00	
Recorder	0.00	6625	Inside	4338.00	
Recorder	0.00	8017	Inside	4338.00	
Anchor	7.00			4345.00	
Recorder	0.00	10991	Outside	4345.00	
Bullnose	3.00			4348.00	16.00 Bottom Packers & Anchor

Total Tool Length: 37.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bryce Hayes Oil & Gas

McDaniel "B" #1

P.O.Box 108
Attica, Ks. 67009-0108

24-32S-10W

Job Ticket: 19941

DST#: 1

ATTN: Bob O'Dell

Test Start: 2005.02.22 @ 21:32:57

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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 1.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1100.00	100 - Mud	15.430

Total Length: 1100.00 ft Total Volume: 15.430 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

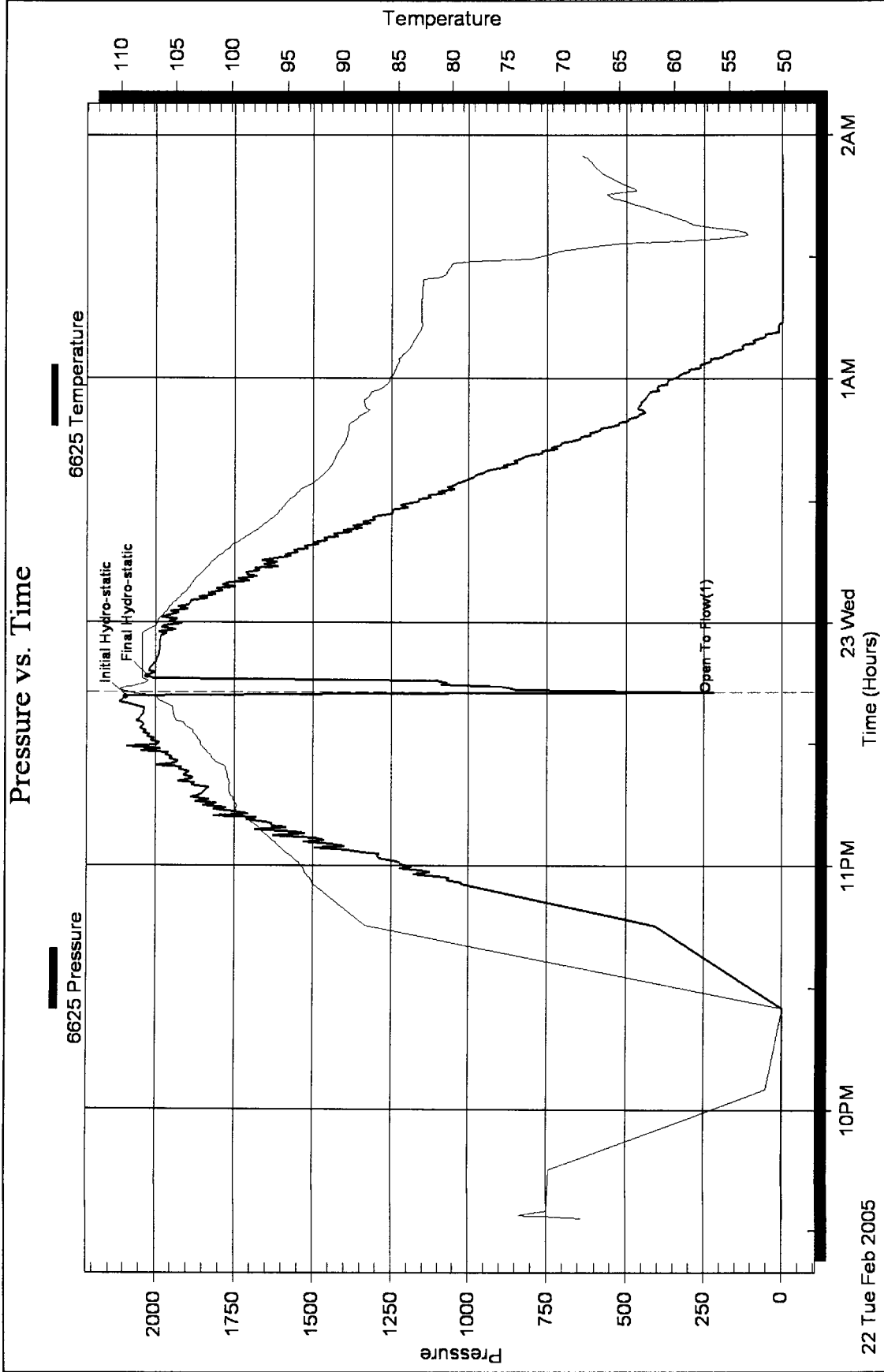
Serial #: 6625

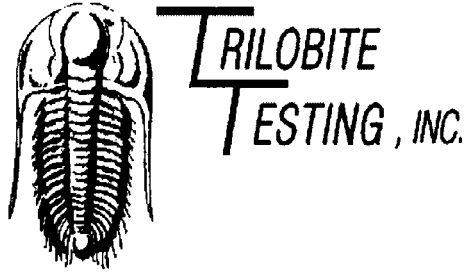
Inside

Bryce Hayes Oil & Gas

24-32S-10W

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Bryce Hayes Oil & Gas**

P.O.Box 108
Attica, Ks. 67009-0108

ATTN: Bob O'Dell

24-32S-10W

McDaniel "B" #1

Start Date: 2005.02.23 @ 01:53:35

End Date: 2005.02.23 @ 09:39:49

Job Ticket #: 19942 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

TOOL DIAGRAM

Bryce Hayes Oil & Gas

McDaniel "B"#1

P.O.Box 108
Attica, Ks. 67009-0108

24-32S-10W

Job Ticket: 19942

DST#: 2

ATTN: Bob O'Dell

Test Start: 2005.02.23 @ 01:53:35

Tool Information

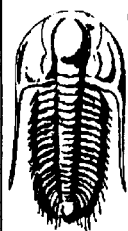
Drill Pipe:	Length: 4291.00 ft	Diameter: 3.80 inches	Volume: 60.19 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 60.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4300.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	69.00 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			4280.00	
Shut In Tool	5.00			4285.00	
Hydraulic tool	5.00			4290.00	
Packer	5.00			4295.00	21.00 Bottom Of Top Packer
Packer	5.00			4300.00	
Stubb	1.00			4301.00	
Anchor	5.00			4306.00	
Recorder	0.00	8017	Inside	4306.00	
Recorder	0.00	8017	Inside	4306.00	
Anchor	5.00			4311.00	
Drill Pipe	31.00			4342.00	
Anchor	3.00			4345.00	
Recorder	0.00	10991	Outside	4345.00	
Bullnose	3.00			4348.00	48.00 Bottom Packers & Anchor

Total Tool Length: 69.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bryce Hayes Oil & Gas

McDaniel "B" #1

P.O.Box 108
Attica, Ks. 67009-0108

24-32S-10W

Job Ticket: 19942

DST#: 2

ATTN: Bob O'Dell

Test Start: 2005.02.23 @ 01:53:35

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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: 1.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 0.32 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	300' of gip	0.000
15.00	SGCM 10% gas 90% mud	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:

Serial #: 8017

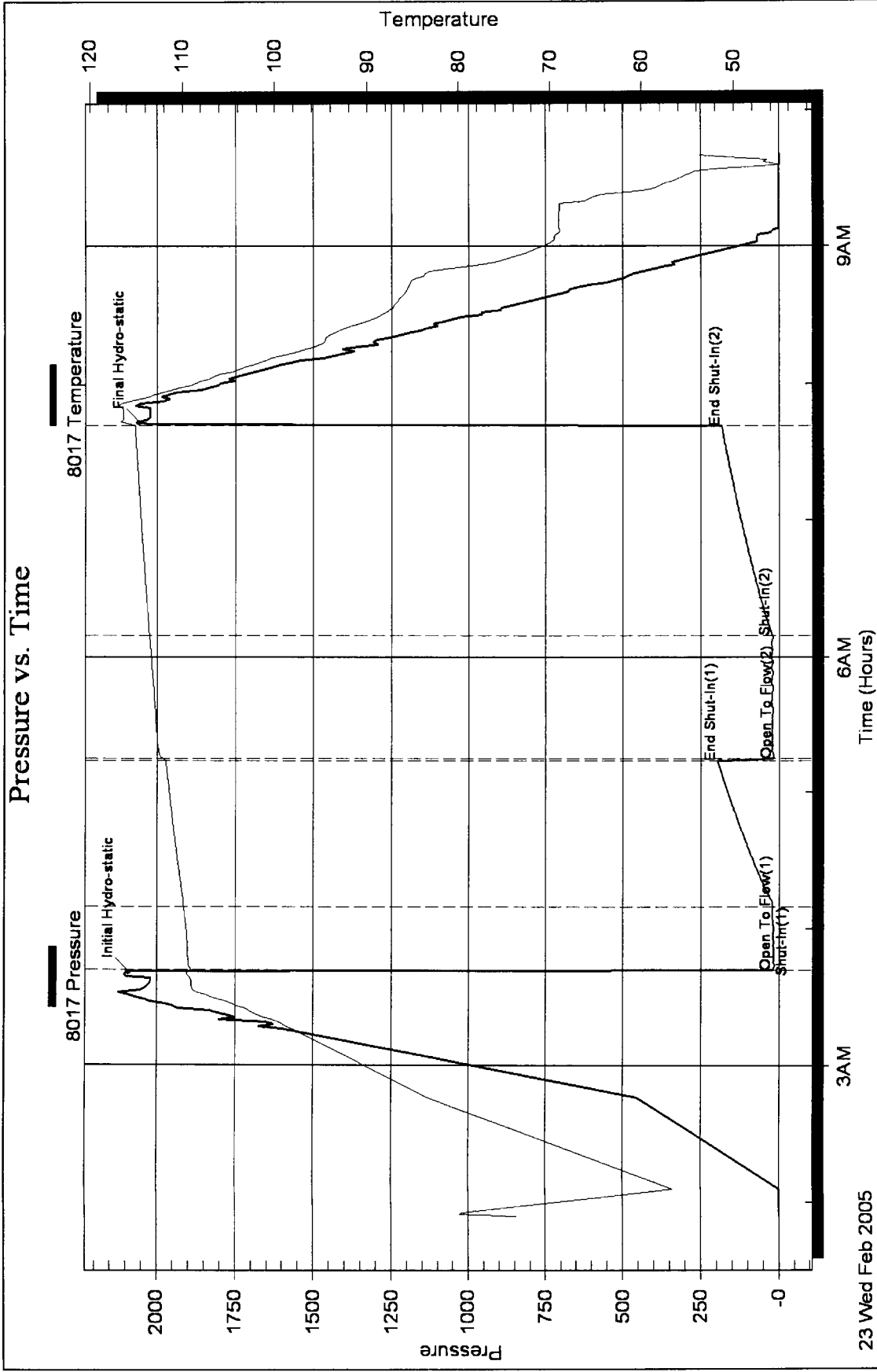
Inside

Bryce Hayes Oil & Gas

24-32S-10W

DST Test Number: 2

Pressure vs. Time

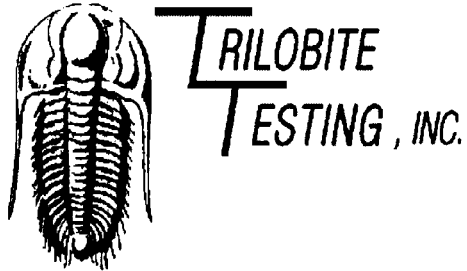


23 Wed Feb 2005

Trilobite Testing, Inc

Ref. No: 19942

Printed: 2005.03.09 @ 11:13:05 Page 5



DRILL STEM TEST REPORT

Prepared For: **Bryce Hayes Oil & Gas**

P.O.Box 108
Attica, Ks. 67009-0108

ATTN: Bob O'Dell

24-32S-10W

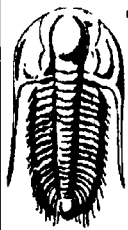
McDaniel "B" #1

Start Date: 2005.02.23 @ 15:20:16

End Date: 2005.02.23 @ 23:31:01

Job Ticket #: 19943 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

Bryce Hayes Oil & Gas

McDaniel "B" #1

P.O.Box 108
Attica, Ks. 67009-0108

24-32S-10W

Job Ticket: 19943

DST #: 3

ATTN: Bob O'Dell

Test Start: 2005.02.23 @ 15:20:16

GENERAL INFORMATION:

Formation: **Mississippian**

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

Time Tool Opened: 17:44:01

Time Test Ended: 23:31:01

Test Type: Conventional Bottom Hole

Tester: Darren L. Amerine

Unit No: 30

Interval: **4347.00 ft (KB) To 4368.00 ft (KB) (TVD)**

Total Depth: 4368.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1447.00 ft (KB)

1436.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8017

Inside

Press@RunDepth: 465.54 psig @ 4348.00 ft (KB)

Start Date: 2005.02.23

End Date: 2005.02.23

Start Time: 15:20:17

End Time: 23:31:01

Capacity: 7000.00 psig

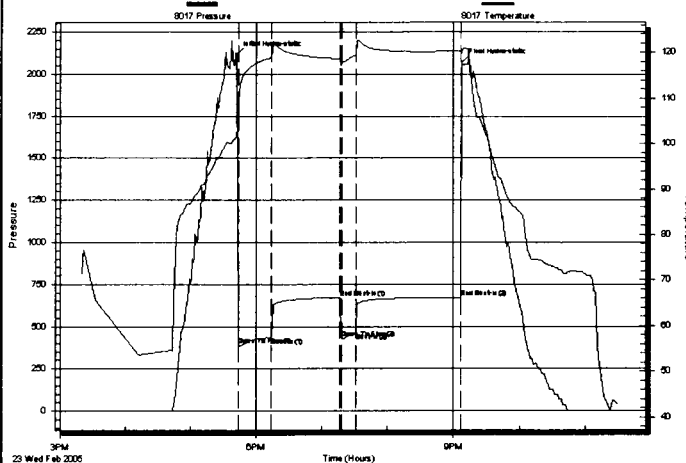
Last Calib.: 2005.02.23

Time On Btm: 2005.02.23 @ 17:42:16

Time Off Btm: 2005.02.23 @ 21:07:31

TEST COMMENT: IF: Strong blow b.o.b in 15 sec. GTS in 2 mins. gauge gas.
IS: Bled down for 30 mins. built back to 5" in H2O bucket.
FF: Strong blow b.o.b in 30 sec. gauge gas. Fluid to surface in 12 mins. close tool.
FS

Pressure vs. Time



PRESSURE SUMMARY

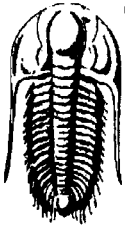
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2116.27	101.46	Initial Hydro-static
2	386.50	109.20	Open To Flow (1)
33	435.46	118.79	Shut-In(1)
95	669.45	118.61	End Shut-In(1)
96	428.61	117.72	Open To Flow (2)
109	465.54	119.46	Shut-In(2)
205	670.95	120.33	End Shut-In(2)
206	2069.00	119.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3497' of gip	0.00
850.00	SG&MCO 20% gas 10% mud 70% oil	11.92

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	52.00	1037.16
Last Gas Rate		0.00	
Max. Gas Rate	0.75	76.00	1412.04



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bryce Hayes Oil & Gas

McDaniel "B" #1

P.O.Box 108
Attica, Ks. 67009-0108

24-32S-10W

Job Ticket: 19943

DST#: 3

ATTN: Bob O'Dell

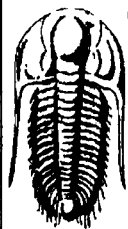
Test Start: 2005.02.23 @ 15:20:16

Tool Information

Drill Pipe:	Length: 4347.00 ft	Diameter: 3.80 inches	Volume: 60.98 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: 65000.00 lb
			<u>Total Volume: 60.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4347.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	42.00 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			4327.00	
Shut In Tool	5.00			4332.00	
Hydraulic tool	5.00			4337.00	
Packer	5.00			4342.00	21.00 Bottom Of Top Packer
Packer	5.00			4347.00	
Stubb	1.00			4348.00	
Recorder	0.00	8017	Inside	4348.00	
Anchor	17.00			4365.00	
Recorder	0.00	10991	Outside	4365.00	
Bullnose	3.00			4368.00	21.00 Bottom Packers & Anchor
Total Tool Length:	42.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Bryce Hayes Oil & Gas

McDaniel "B" #1

P.O.Box 108
Attica, Ks. 67009-0108

24-32S-10W

Job Ticket: 19943

DST#: 3

ATTN: Bob O'Dell

Test Start: 2005.02.23 @ 15:20:16

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 23 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.59 in ³	Gas Cushion Type:	
Resistivity: 1.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 5500.00 ppm		
Filter Cake: 0.32 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3497' of gip	0.000
850.00	SG&MCO 20%gas 10%mud 70%oil	11.923

Total Length: 850.00 ft Total Volume: 11.923 bbl

Num Fluid Samples: 1

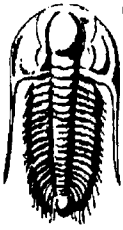
Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Bryce Hayes Oil & Gas

McDaniel "B" #1

P.O.Box 108
Attica, Ks. 67009-0108

24-32S-10W

Job Ticket: 19943

DST#: 3

ATTN: Bob O'Dell

Test Start: 2005.02.23 @ 15:20:16

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)
1	7	0.75	52.00	1037.16
1	12	0.75	60.00	1162.12
1	17	0.75	75.00	1396.42
1	22	0.75	75.00	1396.42
1	27	0.75	76.00	1412.04
1	30	0.75	76.00	1412.04
2	10	0.75	74.00	1380.80
0	0	-999999.00	0.00	-999999.00

Serial #: 8017

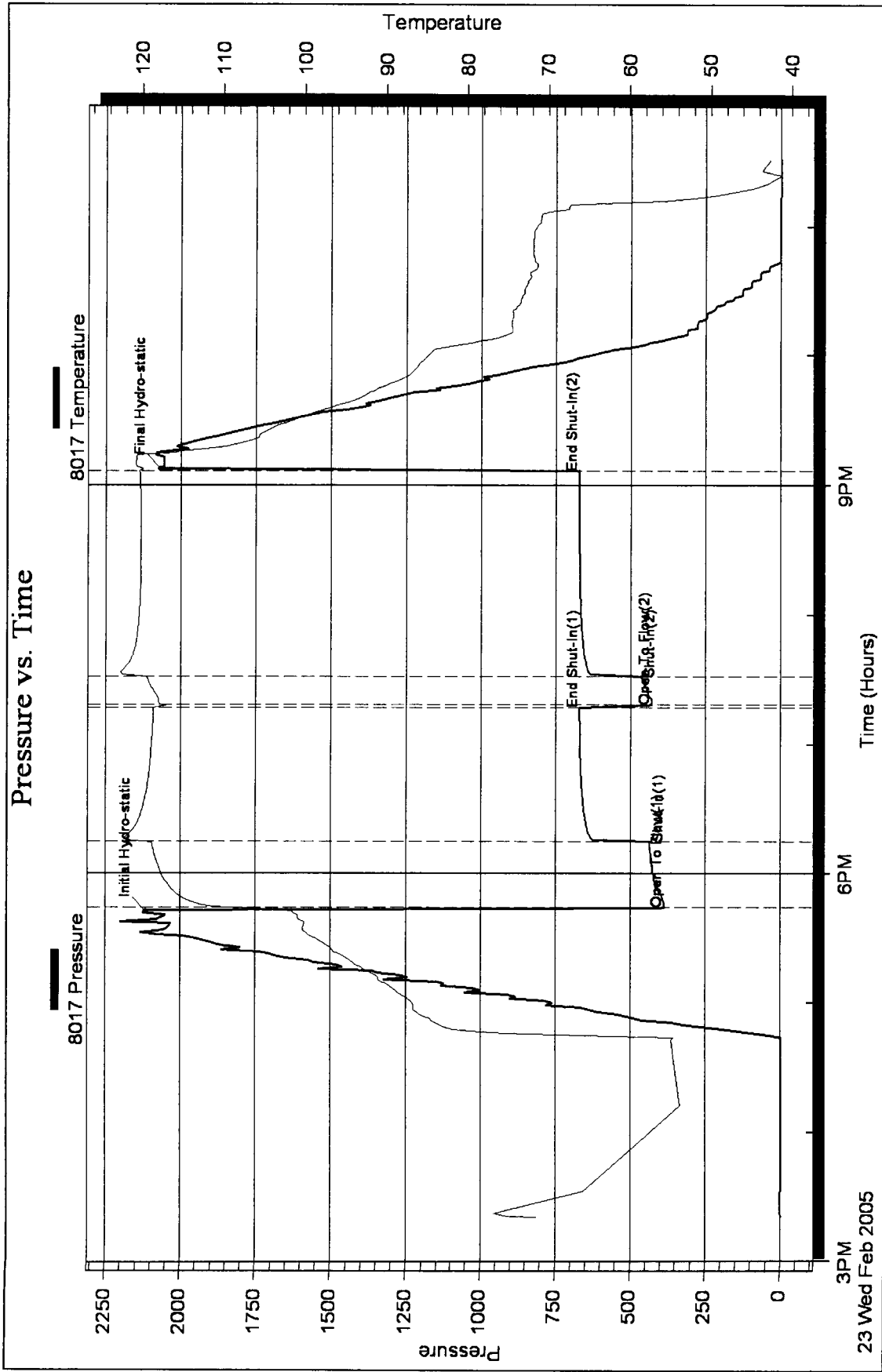
Inside

Bryce Hayes Oil & Gas

24-32S-10W

DST Test Number: 3

Pressure vs. Time



3PM
23 Wed Feb 2005

6PM
9PM
Time (Hours)