

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Falcon Exploration**

126 N Market Ste 1252
Wichita KS 67202

RECEIVED
KANSAS CORPORATION COMMISSION

JUL 09 2008

ATTN: Jim Hall

CONSERVATION DIVISION
WICHITA, KS

12 31S 22W Clark KS

Decker #5

Start Date: 2007.01.19 @ 10:09:29

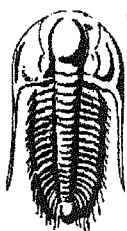
End Date: 2007.01.19 @ 21:29:44

Job Ticket #: 27122 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

Falcon Exploration

126 N Market Ste 1252
Wichita KS 67202

ATTN: Jim Hall

Decker #5

12 31S 22W Clark KS

Job Ticket: 27122

DST#: 1

Test Start: 2007.01.19 @ 10:09:29

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:28:59

Time Test Ended: 21:29:44

Test Type: Conventional Bottom Hole

Tester: Leal Cason

Unit No: 19

Interval: **5202.00 ft (KB) To 5240.00 ft (KB) (TVD)**

Total Depth: 5240.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2229.00 ft (KB)

2219.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: **6752** Inside

Press@RunDepth: 55.02 psig @ 5203.00 ft (KB)

Start Date: 2007.01.19

End Date:

2007.01.19

Start Time: 10:09:34

End Time:

21:29:44

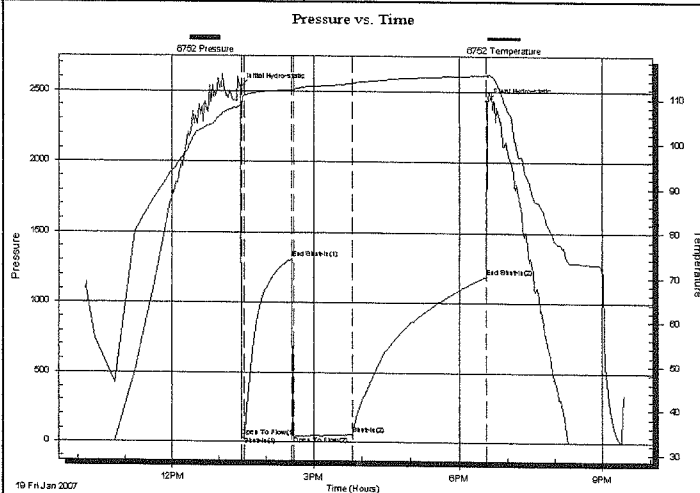
Capacity: 7000.00 psig

Last Calib.: 2007.01.19

Time On Btm: 2007.01.19 @ 13:27:59

Time Off Btm: 2007.01.19 @ 18:34:14

TEST COMMENT: IF Strong Blow BOB in 1 minute
ISI Bled Off No Blow back
FF Strong Blow BOB Immediate
FSI Bled Off No Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2526.93	108.34	Initial Hydro-static
1	37.06	107.92	Open To Flow (1)
5	37.44	110.67	Shut-In (1)
65	1315.24	111.91	End Shut-In (1)
67	42.20	112.06	Open To Flow (2)
140	55.02	113.44	Shut-In (2)
306	1193.28	115.26	End Shut-In (2)
307	2432.27	115.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1860 feet of GIP	0.00
104.00	GSY WOCM 32%G 12%W 28%O 28%1.46	

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Falcon Exploration

126 N Market Ste 1252
Wichita KS 67202

ATTN: Jim Hall

Decker #5

12 31S 22W Clark KS

Job Ticket: 27122

DST#: 1

Test Start: 2007.01.19 @ 10:09:29

Tool Information

Drill Pipe:	Length: 5204.00 ft	Diameter: 3.80 inches	Volume: 73.00 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 3.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 73.00 bbl		Tool Chased ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	5202.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

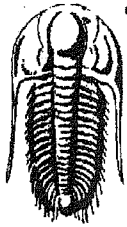
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5175.00	
Shut In Tool	5.00			5180.00	
Hydraulic tool	5.00			5185.00	
Jars	5.00			5190.00	
Safety Joint	3.00			5193.00	
Packer	5.00			5198.00	28.00 Bottom Of Top Packer
Packer	4.00			5202.00	
Stubb	1.00			5203.00	
Recorder	0.00	6752	Inside	5203.00	
Perforations	2.00			5205.00	
Drill Pipe	30.00			5235.00	
Perforations	2.00			5237.00	
Recorder	0.00	6704	Outside	5237.00	
Bullnose	3.00			5240.00	38.00 Bottom Packers & Anchor

Total Tool Length: 66.00

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WICHITA, KS



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Falcon Exploration

Decker #5

126 N Market Ste 1252
Wichita KS 67202

12 31S 22W Clark KS

Job Ticket: 27122

DST#: 1

ATTN: Jim Hall

Test Start: 2007.01.19 @ 10:09:29

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: 62.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1860 feet of GIP	0.000
104.00	GSY WOCM 32%G 12%W 28%O 28%M	1.459

Total Length: 104.00 ft

Total Volume: 1.459 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

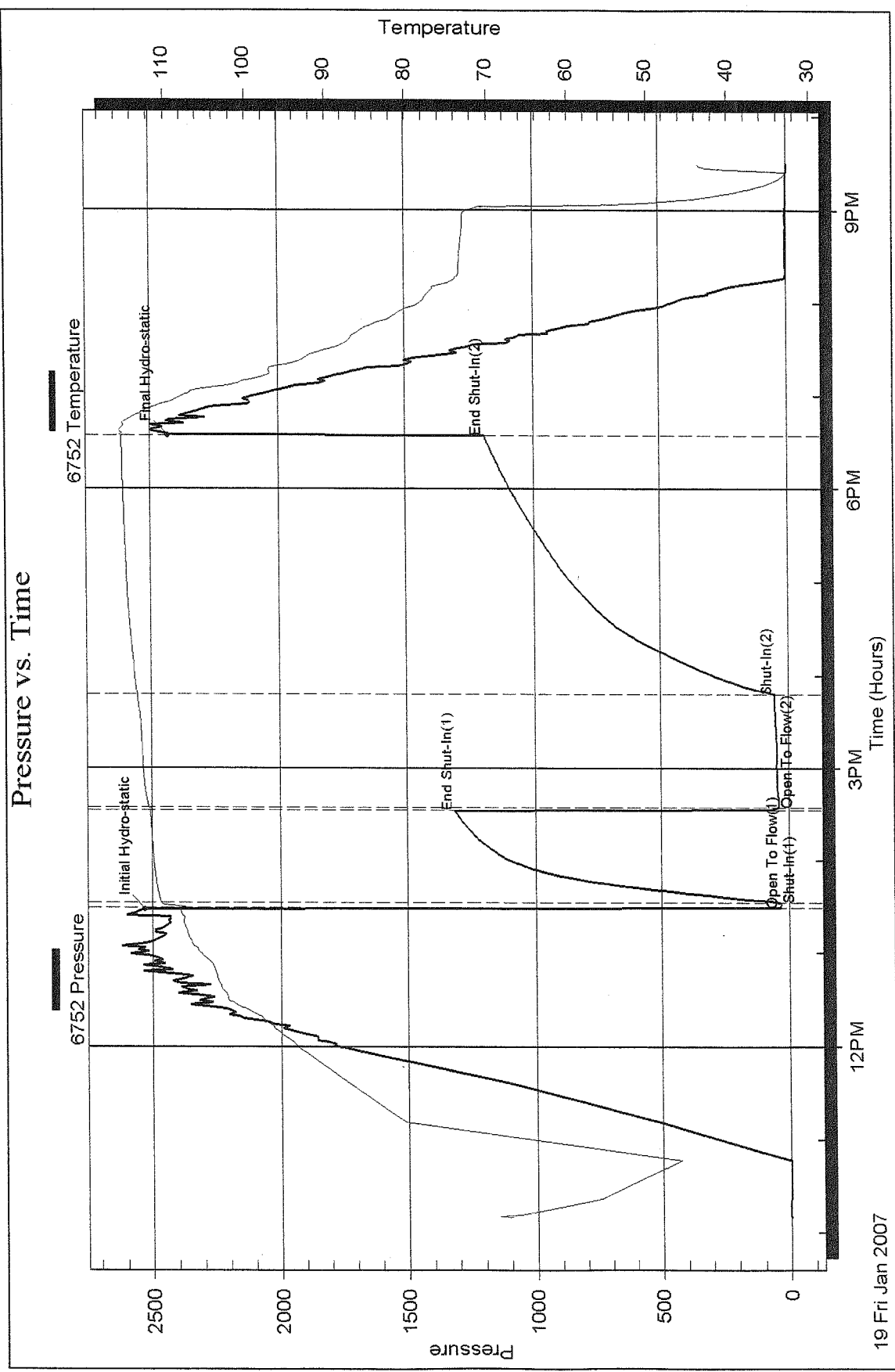
Serial #:

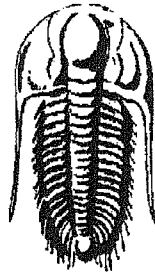
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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DRILL STEM TEST REPORT

Prepared For: **Falcon Exploration**

126 N Market Ste 1252
Wichita KS 67202

ATTN: Jim Hall

12 31S 22W Clark KS

Decker #5

Start Date: 2007.01.20 @ 11:29:28

End Date: 2007.01.21 @ 03:20:13

Job Ticket #: 27123 DST #: 2

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WICHITA, KS

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



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TESTING, INC

DRILL STEM TEST REPORT

Falcon Exploration

126 N Market Ste 1252
Wichita KS 67202

ATTN: Jim Hall

Decker #5

12 31S 22W Clark KS

Job Ticket: 27123

DST#: 2

Test Start: 2007.01.20 @ 11:29:28

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:47:28

Time Test Ended: 03:20:13

Test Type: Conventional Bottom Hole

Tester: Leal Cason

Unit No: 19

Interval: **5240.00 ft (KB) To 5270.00 ft (KB) (TVD)**

Total Depth: 5270.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2229.00 ft (KB)

2219.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: **6752** Inside

Press@RunDepth: 1480.57 psig @ 5241.00 ft (KB)

Start Date: 2007.01.20

End Date:

2007.01.21

Start Time: 11:29:33

End Time:

03:20:13

Capacity: 7000.00 psig

Last Calib.: 2007.01.21

Time On Btm: 2007.01.20 @ 14:45:43

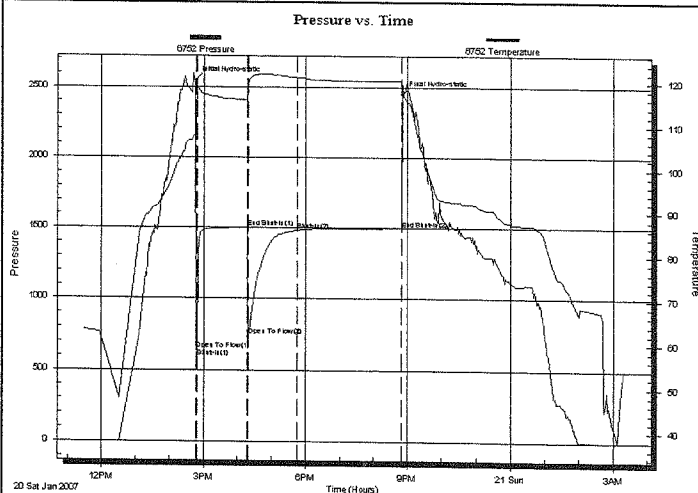
Time Off Btm: 2007.01.20 @ 20:50:58

TEST COMMENT: IF Strong Blow BOB in 20 seconds

ISI Bled Off Blow back built to 5 inches By 45 minutes and Died Off to 3 inches

FF Strong Blow BOB in 20 seconds GTS in 20 minutes Gauged Gas and Caught Gas Sample

F



PRESSURE SUMMARY

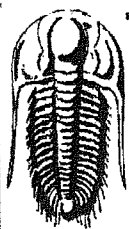
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2543.32	107.81	Initial Hydro-static
2	638.91	114.31	Open To Flow (1)
4	643.99	118.17	Shut-In (1)
92	1499.03	116.04	End Shut-In (1)
94	737.89	119.58	Open To Flow (2)
180	1480.57	121.20	Shut-In (2)
364	1498.13	120.41	End Shut-In (2)
366	2447.20	119.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP AAFP	0.00
585.00	GSY Salt Water 5%G 95%W	8.21
5.00	GSY OCMW 5%G 5%O 20%M 70%W	0.07
2210.00	GSY O 5%G 90%O	31.00
320.00	GSY WOCM 26%G 18%W 20%O 36%	4.49

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	3.00	6.51
Last Gas Rate	0.13	8.00	8.38
Max. Gas Rate	0.13	11.00	9.51



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Falcon Exploration

126 N Market Ste 1252
Wichita KS 67202

ATTN: Jim Hall

Decker #5

12 31S 22W Clark KS

Job Ticket: 27123

DST#: 2

Test Start: 2007.01.20 @ 11:29:28

Tool Information

Drill Pipe:	Length: 5236.00 ft	Diameter: 3.80 inches	Volume: 73.45 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 3.25 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	76000.00 lb
		Total Volume:	73.45 bbl	Tool Chased	ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	5240.00 ft			Final	72000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	58.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

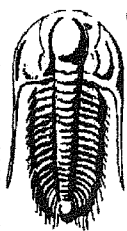
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5213.00	
Shut In Tool	5.00			5218.00	
Hydraulic tool	5.00			5223.00	
Jars	5.00			5228.00	
Safety Joint	3.00			5231.00	
Packer	5.00			5236.00	28.00 Bottom Of Top Packer
Packer	4.00			5240.00	
Stubb	1.00			5241.00	
Recorder	0.00	6752	Inside	5241.00	
Perforations	26.00			5267.00	
Recorder	0.00	6704	Outside	5267.00	
Bullnose	3.00			5270.00	30.00 Bottom Packers & Anchor

Total Tool Length: 58.00

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WICHITA, KS



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Falcon Exploration

Decker #5

126 N Market Ste 1252
Wichita KS 67202

12 31S 22W Clark KS

Job Ticket: 27123

DST#: 2

ATTN: Jim Hall

Test Start: 2007.01.20 @ 11:29:28

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 62.00 sec/qt

Water Loss: 9.97 in³

Resistivity: ohm.m

Salinity: 6000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

48 deg API

Water Salinity:

105000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GIP AFFF	0.000
585.00	GSY Salt Water 5%G 95%W	8.206
5.00	GSY OCMW 5%G 5%O 20%M 70%W	0.070
2210.00	GSY O 5%G 90%O	31.000
320.00	GSY WOCM 26%G 18%W 20%O 36%M	4.489

Total Length: 3120.00 ft

Total Volume: 43.765 bbl

Num Fluid Samples: 0

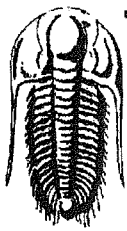
Num Gas Bombs: 1

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
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DRILL STEM TEST REPORT

GAS RATES

Falcon Exploration

Decker #5

126 N Market Ste 1252
Wichita KS 67202

12 31S 22W Clark KS

ATTN: Jim Hall

Job Ticket: 27123

DST#: 2

Test Start: 2007.01.20 @ 11:29:28

Gas Rates Information

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

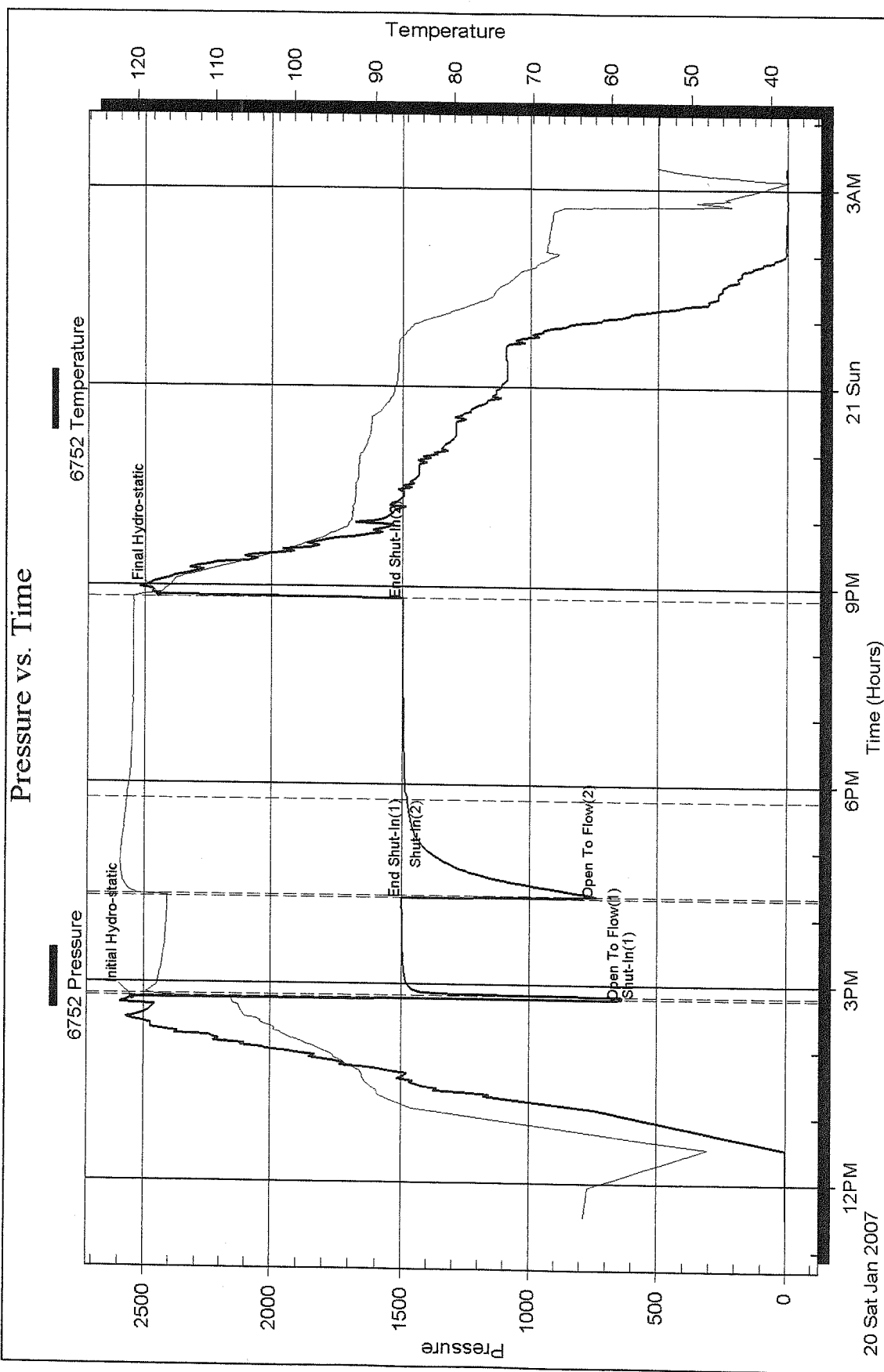
Gas Rates Table

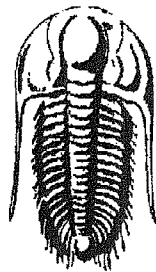
Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m³/d)
2	20	0.13	3.00	6.51
2	30	0.13	5.00	7.26
2	40	0.13	5.00	7.26
2	50	0.13	10.00	9.13
2	60	0.13	11.00	9.51
2	70	0.13	10.00	9.13
2	80	0.13	9.00	8.76
2	90	0.13	8.00	8.38

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WICHITA, KS





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DRILL STEM TEST REPORT

Prepared For: **Falcon Exploration**

126 N Market Ste 1252
Wichita KS 67202

ATTN: Jim Hall

12 31S 22W Clark KS

Decker #5

Start Date: 2007.01.23 @ 01:27:44

End Date: 2007.01.23 @ 13:50:14

Job Ticket #: 27124 DST #: 3

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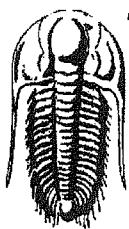
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WICHITA, KS

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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Falcon Exploration

126 N Market Ste 1252
Wichita KS 67202

ATTN: Jim Hall

Decker #5

12 31S 22W Clark KS

Job Ticket: 27124

DST#: 3

Test Start: 2007.01.23 @ 01:27:44

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:43:59

Time Test Ended: 13:50:14

Test Type: Conventional Bottom Hole

Tester: Leal Cason

Unit No: 19

Interval: **5611.00 ft (KB) To 5651.00 ft (KB) (TVD)**

Total Depth: 5651.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2229.00 ft (KB)

2219.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6752 Inside

Press@RunDepth: 204.81 psig @ 5612.00 ft (KB)

Start Date: 2007.01.23

End Date:

2007.01.23

Start Time: 01:27:49

End Time:

13:50:14

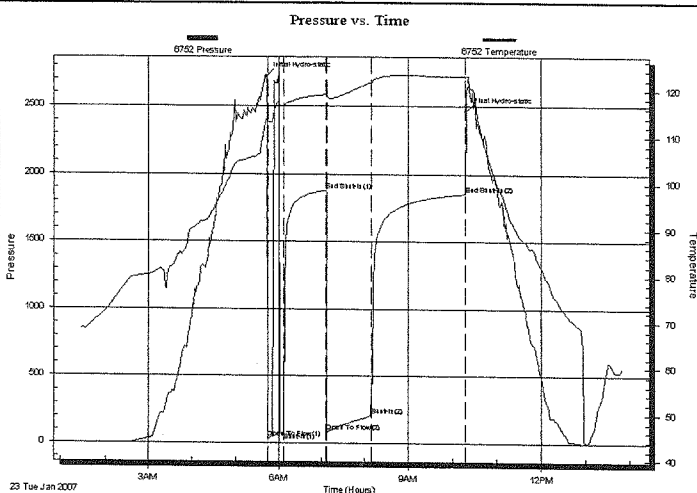
Capacity: 7000.00 psig

Last Calib.: 2007.01.23

Time On Btm: 2007.01.23 @ 05:43:14

Time Off Btm: 2007.01.23 @ 10:18:29

TEST COMMENT: IF Fair Blow 7 inches
ISI Bled Off No Blow back
FF Strong Blow BOB in 13 minutes
FSI Bled Off No Blow back



PRESSURE SUMMARY

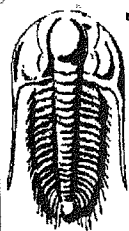
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2722.64	113.68	Initial Hydro-static
1	36.47	113.28	Open To Flow (1)
24	76.73	116.52	Shut-In (1)
84	1882.17	119.06	End Shut-In (1)
84	87.20	118.61	Open To Flow (2)
146	204.81	121.65	Shut-In (2)
275	1856.40	122.90	End Shut-In (2)
276	2466.45	123.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	GSY SOMCW 2%G 2%O 46%M 50%W1.12	
120.00	VSOWCM -1%O 29%W +70%M	1.68
180.00	Muddy Water 5%M 95%W	2.52
0.00	780 Feet GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Falcon Exploration

126 N Market Ste 1252
Wichita KS 67202

ATTN: Jim Hall

Decker #5

12 31S 22W Clark KS

Job Ticket: 27124

DST#: 3

Test Start: 2007.01.23 @ 01:27:44

Tool Information

Drill Pipe:	Length: 5603.00 ft	Diameter: 3.80 inches	Volume: 78.60 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 3.25 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	68000.00 lb
		Total Volume:	78.60 bbl	Tool Chased	ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	5611.00 ft			Final	66000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	68.00 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			5584.00	
Shut In Tool	5.00			5589.00	
Hydraulic tool	5.00			5594.00	
Jars	5.00			5599.00	
Safety Joint	3.00			5602.00	
Packer	5.00			5607.00	28.00 Bottom Of Top Packer
Packer	4.00			5611.00	
Stubb	1.00			5612.00	
Recorder	0.00	6752	Inside	5612.00	
Perforations	5.00			5617.00	
Drill Pipe	31.00			5648.00	
Recorder	0.00	6704	Outside	5648.00	
Bullnose	3.00			5651.00	40.00 Bottom Packers & Anchor

Total Tool Length: 68.00

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FLUID SUMMARY

Falcon Exploration

Decker #5

126 N Market Ste 1252
Wichita KS 67202

12 31S 22W Clark KS

Job Ticket: 27124

DST#: 3

ATTN: Jim Hall

Test Start: 2007.01.23 @ 01:27:44

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 6000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

deg API

Water Salinity:

90000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	GSY SOMCW 2%G 2%O 46%M 50%W	1.122
120.00	VSOWCM-1%O 29%W +70%M	1.683
180.00	Muddy Water 5%M 95%W	2.525
0.00	780 Feet GIP	0.000

Total Length: 380.00 ft

Total Volume: 5.330 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

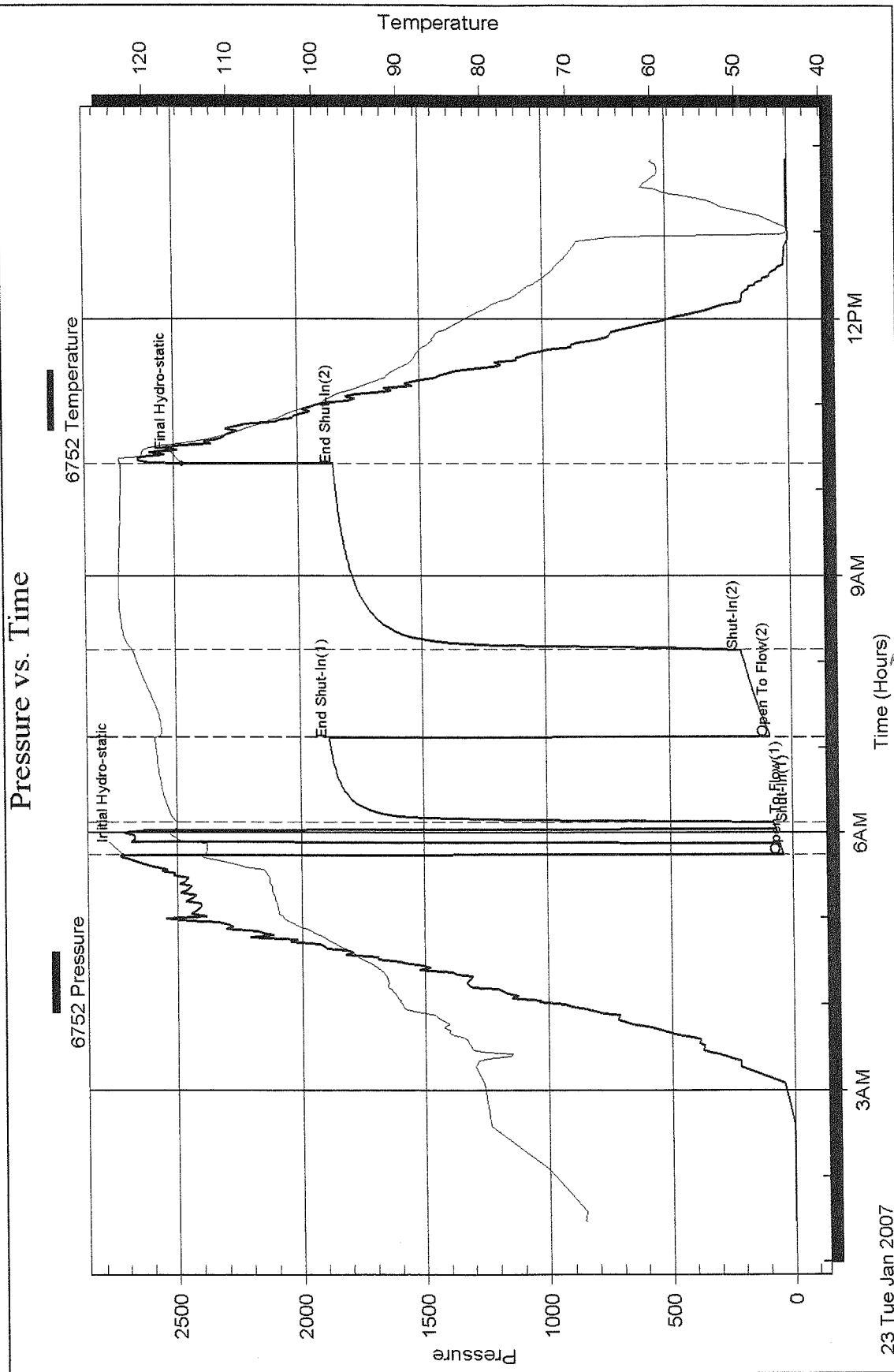
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



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