

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Falcon Exploration Inc.**

125 N Market Ste. 1252 Wichita Ks. 67202

ATTN: Keith

27 30 22 Clark KS

Barnhardt 1-27

Start Date: 2010.05.18 @ 00:30:00

End Date: 2010.05.18 @ 18:13:30

Job Ticket #: 37631 DST #: 1

KCC
AUG 2 5 2010
CONFIDENTIAL

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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AUG 2 5 2010

KCC WICHITA

Printed: 2010.05.27 @ 13:21:13 Page 1

Falcon Exploration Inc.

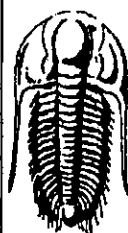
Barnhardt 1-27

27 30 22 Clark KS

DST # 1

Upper Morrow

2010.05.18



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DRILL STEM TEST REPORT

Falcon Exploration Inc.

125 N Market Ste. 1252 Wichita Ks. 67202

ATTN: Keith

Barnhardt 1-27

27 30 22 Clark KS

Job Ticket: 37631

DST#: 1

Test Start: 2010.05.18 @ 00:30:00

GENERAL INFORMATION:

Formation: **Upper Morrow**

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

Time Tool Opened: 07:19:30

Time Test Ended: 18:13:30

Test Type: Conventional Bottom Hole

Tester: Harley Davidson

Unit No: 33

Interval: **5290.00 ft (KB) To 5355.00 ft (KB) (TVD)**

Total Depth: 5355.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 2364.00 ft (KB)

2353.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **6773**

Inside

Press@RunDepth: 983.17 psig @ 5325.00 ft (KB)

Start Date: 2010.05.18

End Date: 2010.05.18

Start Time: 00:30:05

End Time: 18:13:29

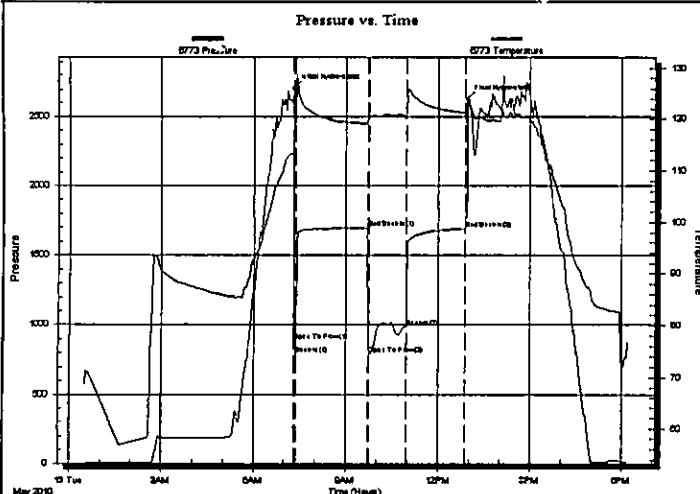
Capacity: 8000.00 psig

Last Calib.: 2010.05.18

Time On Btm: 2010.05.18 @ 07:18:09

Time Off Btm: 2010.05.18 @ 12:56:20

TEST COMMENT: IF- Strong blow BOB ASAO, GTS 4min.
IS- Strong blow.
FF- Strong blow BOB GTS ASAO, Fluid to surface 12min. "MUD"
FS- Strong blow.



PRESSURE SUMMARY

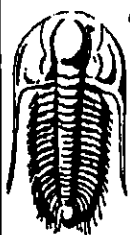
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2711.74	113.50	Initial Hydro-static
2	883.78	117.91	Open To Flow (1)
5	788.80	119.97	Shut-In(1)
145	1698.69	119.14	End Shut-In(1)
148	785.21	120.46	Open To Flow (2)
220	983.17	120.03	Shut-In(2)
336	1690.98	121.16	End Shut-In(2)
339	2636.35	120.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	20min 50%w 50%w	0.00
0.00	30min 50%w 50%oil	0.00
0.00	50min 100% condensate	0.00
0.00	60min 50%w 50%oil	0.00
0.00	70min 60%w 40%oil	0.00
62.00	50%w 30%oil 20%gas	0.87

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	10.00	701.47



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Falcon Exploration Inc.

125 N Market Ste. 1252 Wichita Ks. 67202

ATTN: Keith

Barnhardt 1-27

27 30 22 Clark KS

Job Ticket: 37631

DST#: 1

Test Start: 2010.05.18 @ 00:30:00

Tool Information

Drill Pipe:	Length: 5287.00 ft	Diameter: 3.80 inches	Volume: 74.16 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 140000.0 lb
		Total Volume: 74.16 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	5290.00 ft			Final 90000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	93.00 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			5263.00	
Shut In Tool	5.00			5268.00	
Hydraulic tool	5.00			5273.00	
Jars	5.00			5278.00	
Safety Joint	3.00			5281.00	
Packer	5.00			5286.00	28.00 Bottom Of Top Packer
Packer	4.00			5290.00	
Stubb	1.00			5291.00	
Perforations	1.00			5292.00	
Change Over Sub	1.00			5293.00	
Drill Pipe	31.00			5324.00	
Change Over Sub	1.00			5325.00	
Recorder	0.00	8355	Inside	5325.00	
Recorder	0.00	6773	Inside	5325.00	
Perforations	27.00			5352.00	
Bullnose	3.00			5355.00	65.00 Bottom Packers & Anchor
Total Tool Length:	93.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Falcon Exploration Inc.

Barnhardt 1-27

125 N Market Ste. 1252 Wichita Ks. 67202

27 30 22 Clark KS

Job Ticket: 37631

DST#: 1

ATTN: Keith

Test Start: 2010.05.18 @ 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:

20000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.36 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	20min 50%m 50%w	0.000
0.00	30min 50%m 50%oil	0.000
0.00	50min 100% condensate	0.000
0.00	60min 50%m 50%oil	0.000
0.00	70min 60%w 40%oil	0.000
62.00	50%m 30%oil 20%gas	0.870
558.00	100% water	7.827

Total Length: 620.00 ft

Total Volume: 8.697 bbl

Num Fluid Samples: 0

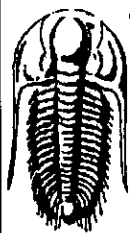
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW.3 @ 80F = 20000 chlorides



TRILOBITE
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DRILL STEM TEST REPORT

GAS RATES

Falcon Exploration Inc.

Barnhardt 1-27

125 N Market Ste. 1252 Wichita Ks. 67202

27 30 22 Clark KS

Job Ticket: 37631

DST#: 1

ATTN: Keith

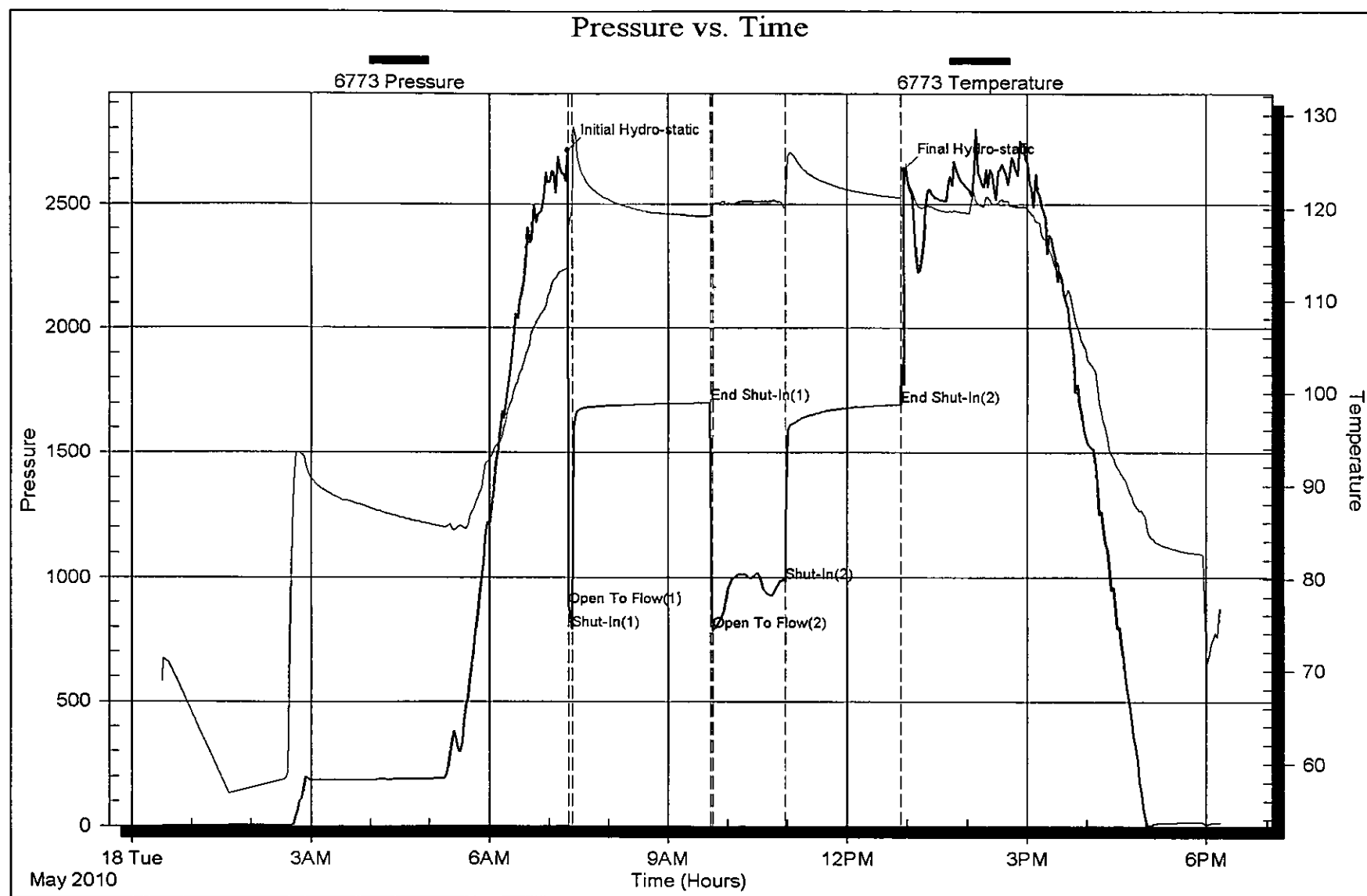
Test Start: 2010.05.18 @ 00:30:00

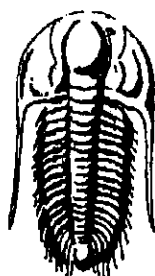
Gas Rates Information

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	10	1.00	10.00	701.47





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DRILL STEM TEST REPORT

Prepared For: **Falcon Exploration Inc.**

125 N Market Ste. 1252 Wichita Ks. 67202

ATTN: Keith

27 30 22 Clark KS

Barnhardt 1-27

Start Date: 2010.05.20 @ 01:06:59

End Date: 2010.05.20 @ 14:06:29

Job Ticket #: 36903

DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



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DRILL STEM TEST REPORT

Falcon Exploration Inc.

125 N Market Ste. 1252 Wichita Ks. 67202

ATTN: Keith

Barnhardt 1-27

27 30 22 Clark KS

Job Ticket: 36903

DST#: 2

Test Start: 2010.05.20 @ 01:06:59

GENERAL INFORMATION:

Formation: **Morrow Sand**

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

Time Tool Opened: 04:10:29

Time Test Ended: 14:06:29

Interval: **5358.00 ft (KB) To 5370.00 ft (KB) (TVD)**

Total Depth: **5370.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Fair**

Test Type: **Conventional Bottom Hole**

Tester: **Jerry Adams**

Unit No: **45**

Reference Elevations: **2364.00 ft (KB)**

2353.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: 6798

Inside

Press@RunDepth: **276.19 psig @ 5359.00 ft (KB)**

Start Date: **2010.05.20**

End Date: **2010.05.20**

Start Time: **01:07:00**

End Time: **14:06:29**

Capacity: **8000.00 psig**

Last Calib.: **2010.05.20**

Time On Btm: **2010.05.20 @ 04:07:59**

Time Off Btm: **2010.05.20 @ 10:19:29**

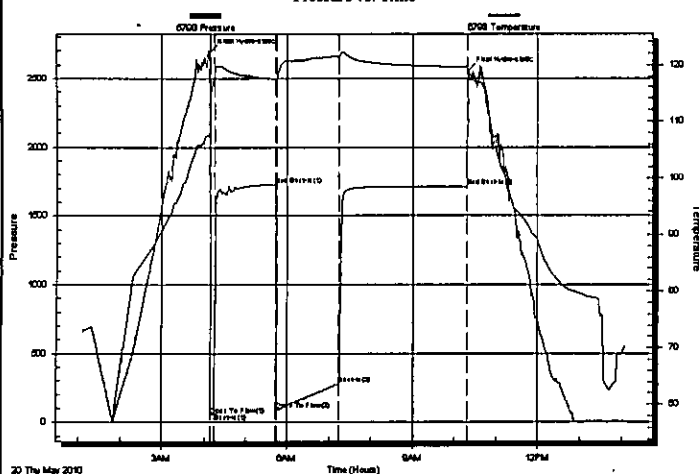
TEST COMMENT: IF: Fair blow. Built to 11 1/2".

IS: Weak blow. Built to 1".

FF: Fair blow. B.O.B. in 18 mins. GTS in 35 mins. T.S.T.M

FS: Weak blow. B.O.B. in 82 mins.

Pressure vs. Time



PRESSURE SUMMARY

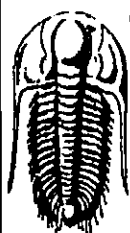
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2690.37	107.90	Initial Hydro-static
3	54.94	114.77	Open To Flow (1)
7	69.28	117.75	Shut-In(1)
96	1725.85	117.45	End Shut-In(1)
98	84.41	116.57	Open To Flow (2)
187	276.19	121.51	Shut-In(2)
370	1713.60	119.66	End Shut-In(2)
372	2556.03	117.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	SG&OCM 6%g 4%o 90%w	0.28
62.00	SGO&WCM 15%g 5%o 3%w 77%w	0.87
372.00	SGO&W w/oil scum 8%g 75%w 17%w	5.22
124.00	SMCW 95%w 5%w	1.74
0.00	4775' GIP	0.00
0.00	RW = .1 @ 90 deg.	0.00

Gas Rates

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

Falcon Exploration Inc.

125 N Market Ste. 1252 Wichita Ks. 67202

ATTN: Keith

Barnhardt 1-27

27 30 22 Clark KS

Job Ticket: 36903

DST#: 2

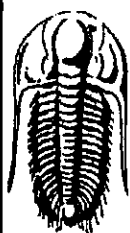
Test Start: 2010.05.20 @ 01:06:59

Tool Information

Drill Pipe:	Length: 5353.00 ft	Diameter: 3.80 inches	Volume: 75.09 bbl	Tool Weight: 2500.00 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: 90000.00 lb
		Total Volume: 75.09 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	5358.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	35.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			5340.00		
Hydraulic tool	5.00			5345.00		
Jars	5.00			5350.00		
Safety Joint	3.00			5353.00		
Packer	5.00			5358.00	23.00	Bottom Of Top Packer
Stub	1.00			5359.00		
Recorder	0.00	6798	Inside	5359.00		
Recorder	0.00	8367	Outside	5359.00		
Perforations	8.00			5367.00		
Bullnose	3.00			5370.00	12.00	Anchor Tool
Total Tool Length:	35.00					



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27 30 22 Clark KS

Job Ticket: 36903

DST#: 2

ATTN: Keith

Test Start: 2010.05.20 @ 01:06:59

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:

58000 ppm

Viscosity: 90.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 10800.00 ppm

Filter Cake: 0.21 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
20.00	SG&OCM 6%g 4%o 90%m	0.281
62.00	SGO&WCM 15%g 5%o 3%w 77%m	0.870
372.00	SGCMWw/oil scum 8%g 75%w 17%m	5.218
124.00	SMCW 95%w 5%m	1.739
0.00	4775' GIP	0.000
0.00	RW = .1 @ 90 deg.	0.000

Total Length: 578.00 ft

Total Volume: 8.108 bbf

Num Fluid Samples: 3

Num Gas Bombs: 1

Serial #: GA-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:

