



## DRILL STEM TEST REPORT

Prepared For: **Falcon Exploration Incorporated**

125 North Market  
Suite 1252  
Wichita, Kansas 67202+1719

ATTN: Keith Reavis

**RCJ #1-34**

**34/28S/30W/Gray**

Start Date: 2012.08.27 @ 10:16:00

End Date: 2012.08.27 @ 19:39:30

Job Ticket #: 17673                      DST #: 1

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

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# DRILL STEM TEST REPORT

Falcon Exploration Incorporated

**34/28S/30W/Gray**

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ATTN: Keith Reavis

**RCJ #1-34**

Job Ticket: 17673

**DST#: 1**

Test Start: 2012.08.27 @ 10:16:00

## GENERAL INFORMATION:

Formation: **Tarkio**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:39:00

Time Test Ended: 19:39:30

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/240

**Interval: 3515.00 ft (KB) To 3532.00 ft (KB) (TVD)**

Reference Elevations: 2740.00 ft (KB)

Total Depth: 3560.00 ft (KB) (TVD)

2727.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

## Serial #: 6999

Press @ RunDepth: 243.16 psia @ 3526.65 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.08.27

End Date: 2012.08.27

Last Calib.: 2012.08.27

Start Time: 10:16:00

End Time: 19:39:30

Time On Btm: 2012.08.27 @ 12:34:00

Time Off Btm: 2012.08.27 @ 17:26:30

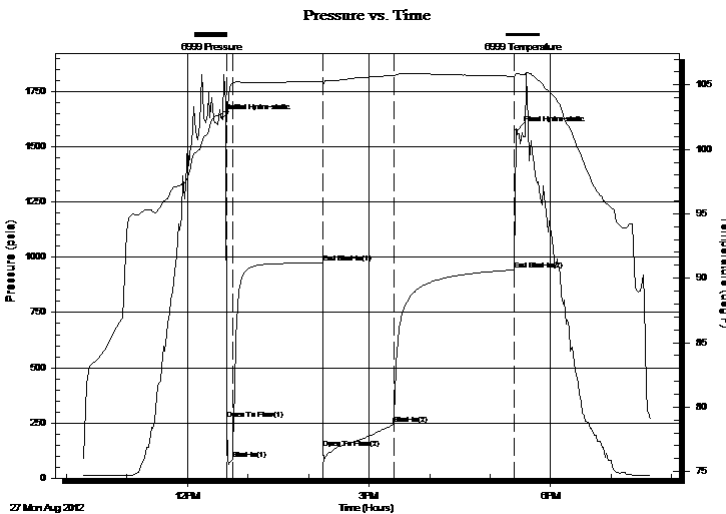
**TEST COMMENT:** 1ST Open 5 Minutes/Strong blow /Blow to bottom of bucket in 45 seconds

1ST Shut In 90 Minutes/No blow back

2ND Open 70 Minutes/Strong blow /Blow to bottom of bucket in 15 seconds/Gas to surface in 8 minutes

2ND Shut In 120 Minutes/No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1630.43	102.78	Initial Hydro-static
5	265.37	102.11	Open To Flow (1)
11	87.12	105.15	Shut-In(1)
100	975.88	105.28	End Shut-In(1)
101	136.83	105.05	Open To Flow (2)
171	243.16	105.72	Shut-In(2)
290	943.01	105.67	End Shut-In(2)
293	1576.18	105.90	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	Watery Mud/ water 15% mud 85%	0.44
420.00	Muddy Water/ Mud 10% Water 90%	3.71
0.00	Recovery Chlorides 108,000 ppm	0.00
0.00	Recov. Resis. .08 ohms @ 79 deg.	0.00

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.38	4.23	15.51
Last Gas Rate	0.38	5.98	21.91
Max. Gas Rate	0.38	6.58	24.10



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125 North Market  
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ATTN: Keith Reavis

**RCJ #1-34**

Job Ticket: 17673

**DST#: 1**

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Tester: Ken Swinney

Unit No: 3325 Great Bend/240

**Interval: 3515.00 ft (KB) To 3532.00 ft (KB) (TVD)**

Reference Elevations: 2740.00 ft (KB)

Total Depth: 3560.00 ft (KB) (TVD)

2727.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

## Serial #: 6651

Press @ RunDepth: 943.90 psia @ 3526.65 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.08.27

End Date: 2012.08.27

Last Calib.: 2012.08.27

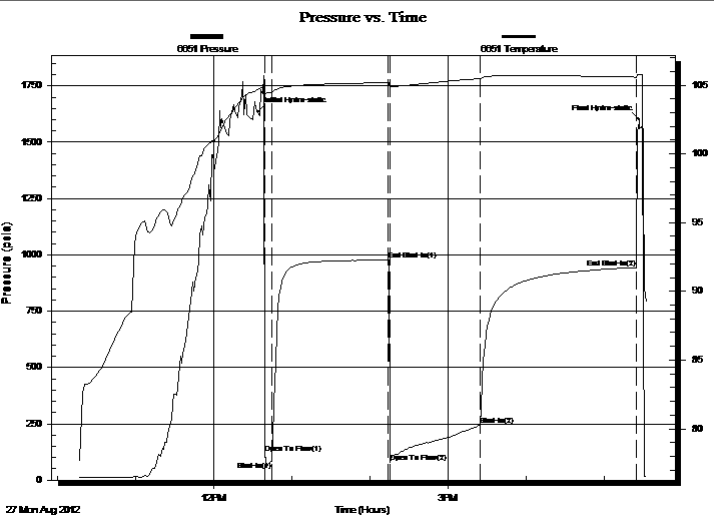
Start Time: 10:16:00

End Time: 17:33:16

Time On Btm: 2012.08.27 @ 12:34:00

Time Off Btm: 2012.08.27 @ 17:27:00

**TEST COMMENT:** 1ST Open 5 Minutes/Strong blow /Blow to bottom of bucket in 45 seconds  
 1ST Shut In 90 Minutes/No blow back  
 2ND Open 70 Minutes/Strong blow /Blow to bottom of bucket in 15 seconds/Gas to surface in 8 minutes  
 2ND Shut In 120 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1634.01	104.70	Initial Hydro-static
6	118.03	104.34	Open To Flow (1)
11	82.88	104.48	Shut-In(1)
100	977.10	105.18	End Shut-In(1)
102	80.96	104.93	Open To Flow (2)
171	243.16	105.47	Shut-In(2)
291	943.90	105.59	End Shut-In(2)
293	1601.34	105.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	Watery Mud/ water 15% mud 85%	0.44
420.00	Muddy Water/ Mud 10% Water 90%	3.71
0.00	Recovery Chlorides 108,000 ppm	0.00
0.00	Recov. Resis. .08 ohms @ 79 deg.	0.00

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.38	4.23	15.51
Last Gas Rate	0.38	5.98	21.91
Max. Gas Rate	0.38	6.58	24.10



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Falcon Exploration Incorporated

**34/28S/30W/Gray**

125 North Market  
Suite 1252  
Wichita, Kansas 67202+1719  
ATTN: Keith Reavis

**RCJ #1-34**

Job Ticket: 17673

**DST#: 1**

Test Start: 2012.08.27 @ 10:16:00

## GENERAL INFORMATION:

Formation: **Tarkio**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:39:00

Time Test Ended: 19:39:30

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/240

**Interval: 3515.00 ft (KB) To 3532.00 ft (KB) (TVD)**

Reference Elevations: 2740.00 ft (KB)

Total Depth: 3560.00 ft (KB) (TVD)

2727.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

## Serial #: 6749

Press @ Run Depth: 957.61 psia @ 3555.65 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.08.27

End Date: 2012.08.27

Last Calib.: 2012.08.27

Start Time: 10:16:00

End Time: 19:32:30

Time On Btm: 2012.08.27 @ 12:32:30

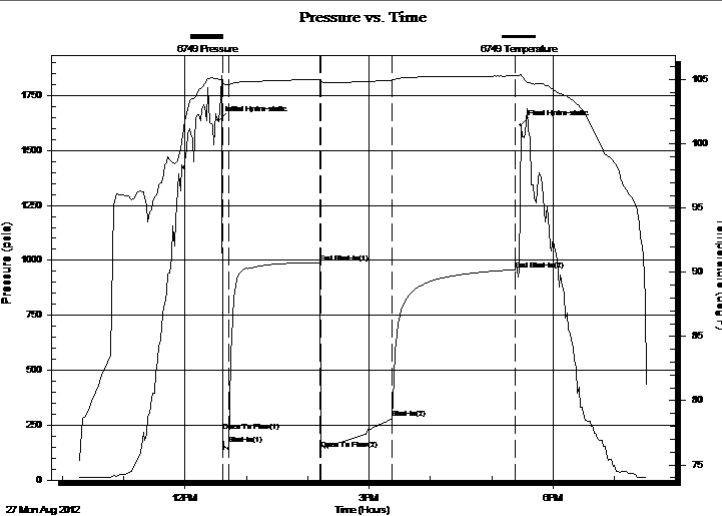
Time Off Btm: 2012.08.27 @ 17:28:30

**TEST COMMENT:** 1ST Open 5 Minutes/Strong blow /Blow to bottom of bucket in 45 seconds

1ST Shut In 90 Minutes/No blow back

2ND Open 70 Minutes/Strong blow /Blow to bottom of bucket in 15 seconds/Gas to surface in 8 minutes

2ND Shut In 120 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1637.36	105.05	Initial Hydro-static
5	222.20	104.63	Open To Flow (1)
10	165.02	104.60	Shut-In(1)
99	989.88	105.02	End Shut-In(1)
101	138.91	104.83	Open To Flow (2)
171	282.51	104.96	Shut-In(2)
291	957.61	105.30	End Shut-In(2)
297	1616.20	105.42	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	Watery Mud/ water 15% mud 85%	0.44
420.00	Muddy Water/ Mud 10% Water 90%	3.71
0.00	Recovery Chlorides 108,000 ppm	0.00
0.00	Recov. Resis. .08 ohms @ 79 deg.	0.00

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.38	4.23	15.51
Last Gas Rate	0.38	5.98	21.91
Max. Gas Rate	0.38	6.58	24.10



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Falcon Exploration Incorporated

**34/28S/30W/Gray**

125 North Market  
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**RCJ #1-34**

Job Ticket: 17673

**DST#: 1**

Test Start: 2012.08.27 @ 10:16:00

## Tool Information

Drill Pipe:	Length: 3173.00 ft	Diameter: 3.80 inches	Volume: 44.51 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: 20000.00 lb
Drill Collar:	Length: 330.00 ft	Diameter: 2.25 inches	Volume: 1.62 bbl	Weight to Pull Loose: 120000.0 lb
			Total Volume: 46.13 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	3515.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	3526.65 ft			
Interval between Packers:	11.65 ft			
Tool Length:	65.65 ft			
Number of Packers:	3	Diameter:	6.75 inches	
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In tool	5.00		Fluid	3498.00	
Hydraulic Tool	5.00			3503.00	
Jars	5.00			3508.00	
safety Joint	2.00			3510.00	
Packer	5.00		Inside	3515.00	22.00 Bottom Of Top Packer
Handling Sub	5.00			3520.00	
Perforations	6.00			3526.00	
Blank Off Sub	0.65			3526.65	
Recorder	0.00	6651		3526.65	
Recorder	0.00	6999		3526.65	
Packer	5.00			3531.65	11.65 Tool Interval
Packer	5.00			3536.65	
Perforations	19.00			3555.65	
Recorder	0.00	6749		3555.65	
Bullnose	3.00			3558.65	32.00 Bottom Packers & Anchor

**Total Tool Length: 65.65**



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## FLUID SUMMARY

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Job Ticket: 17673

**DST#: 1**

Test Start: 2012.08.27 @ 10:16:00

### Mud and Cushion Information

Mud Type: Gel Chem  
 Mud Weight: 9.00 lb/gal  
 Viscosity: 79.00 sec/qt  
 Water Loss: 7.99 in<sup>3</sup>  
 Resistivity: 3000.00 ohm.m  
 Salinity: ppm  
 Filter Cake: 1.00 inches

Cushion Type:  
 Cushion Length: ft  
 Cushion Volume: bbl  
 Gas Cushion Type:  
 Gas Cushion Pressure: psia

Oil API: deg API  
 Water Salinity: ppm

### Recovery Information

Recovery Table

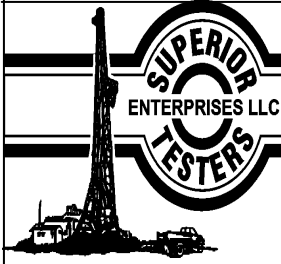
Length ft	Description	Volume bbl
90.00	Watery Mud/ water 15% mud 85%	0.443
420.00	Muddy Water/ Mud 10% Water 90%	3.705
0.00	Recovery Chlorides 108,000 ppm	0.000
0.00	Recov. Resis. .08 ohms @ 79 deg.	0.000

Total Length: 510.00 ft      Total Volume: 4.148 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:



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**GAS RATES**

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**DST#: 1**

Test Start: 2012.08.27 @ 10:16:00

## Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
2	10	0.38	4.23	15.51
2	20	0.38	6.58	24.10
2	30	0.38	6.58	24.10
2	40	0.38	6.44	23.60
2	50	0.38	6.14	22.50
2	60	0.38	5.98	21.91
2	70	0.38	5.98	21.91

