



## DRILL STEM TEST REPORT

Prepared For: **Falcon Exploration Incorporated**

125 North Market  
Suite 1252  
Wichita, Kansas 67202+1719

ATTN: Ted Pfau

**Fredrick Goossen1-27**

**27/28S/30W/Gray**

Start Date: 2012.07.22 @ 08:03:00

End Date: 2012.07.23 @ 00:26:00

Job Ticket #: 17665                      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

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**27/28S/30W/Gray**

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ATTN: Ted Pfau

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Job Ticket: 17665 **DST#: 1**  
Test Start: 2012.07.22 @ 08:03:00

## GENERAL INFORMATION:

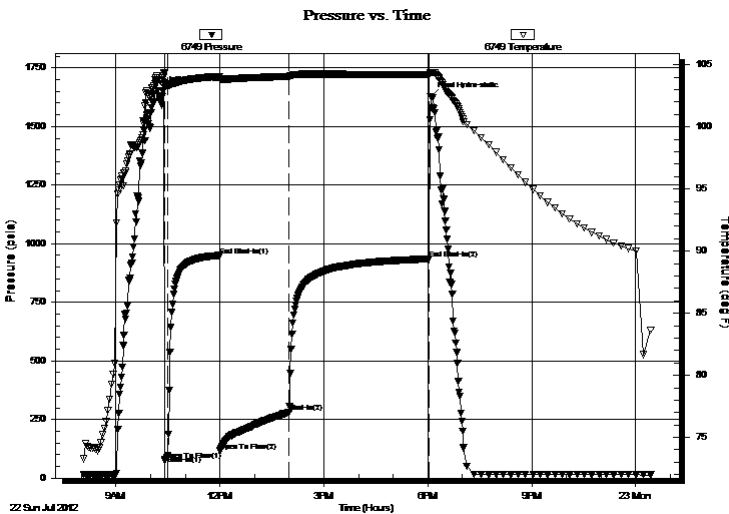
Formation: **Stotler**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 10:25:00 Tester: Ken Swinney  
 Time Test Ended: 00:26:00 Unit No: 3325 Hugoton/112  
 Interval: **3454.00 ft (KB) To 3525.00 ft (KB) (TVD)** Reference Elevations: 2770.00 ft (KB)  
 Total Depth: 3525.00 ft (KB) (TVD) 2757.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 13.00 ft

## Serial #: 6749

Inside

Press @ Run Depth: 282.01 psia @ 3521.37 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.07.22 End Date: 2012.07.23 Last Calib.: 2012.07.22  
 Start Time: 08:04:00 End Time: 00:26:00 Time On Btm: 2012.07.22 @ 10:21:30  
 Time Off Btm: 2012.07.22 @ 18:05:00

TEST COMMENT: 1ST Open 5 Mintues/Strong blow/Blow to bottom of bucket in 1 minute  
 1ST Shut In 90 Mintues/Blow back built to 1 inch  
 2ND Open 120 Mintues/Strong blow/Blow to bottom of bucket in 2 minutes/Gas to surface in 66 minutes  
 2ND Shut In 240 Minutes/Blow back built to 10 inches



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1651.55	103.97	Initial Hydro-static
4	76.49	103.48	Open To Flow (1)
8	96.35	103.28	Shut-In(1)
98	950.25	104.06	End Shut-In(1)
99	116.76	103.86	Open To Flow (2)
219	282.01	104.05	Shut-In(2)
461	935.54	104.18	End Shut-In(2)
464	1628.32	104.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
360.00	Slightly gassy Muddy Water	2.04
0.00	Gas 5% Mud 20% Water 75%	0.00
90.00	Slightly gassy Mud	1.26
0.00	Gas 2% Mud 98%	0.00
0.00	Recovery Chlorides 95000 ppm	0.00
0.00	Recovery Resist. .18 ohms @ 92 deg.	0.00

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	3.00	1.12
Last Gas Rate	0.13	4.46	1.67
Max. Gas Rate	0.13	4.46	1.67



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**Fredrick Goossen1-27**

Job Ticket: 17665 **DST#: 1**

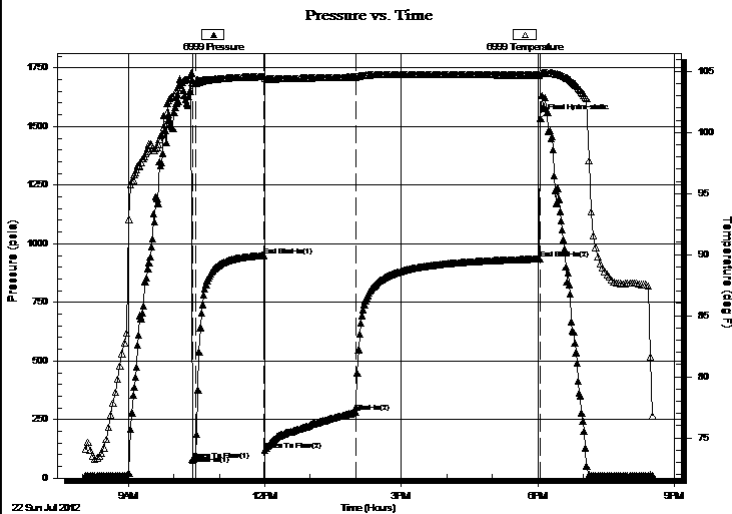
Test Start: 2012.07.22 @ 08:03:00

## GENERAL INFORMATION:

Formation: **Stotler**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 10:25:00  
 Tester: Ken Swinney  
 Time Test Ended: 00:26:00  
 Unit No: 3325 Hugoton/112  
 Interval: **3454.00 ft (KB) To 3525.00 ft (KB) (TVD)**  
 Reference Elevations: 2770.00 ft (KB)  
 Total Depth: 3525.00 ft (KB) (TVD)  
 2757.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 13.00 ft

**Serial #: 6999 Outside**  
 Press @ Run Depth: 935.54 psia @ 3522.37 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.07.22 End Date: 2012.07.22 Last Calib.: 2012.07.22  
 Start Time: 08:04:00 End Time: 20:32:00 Time On Btm: 2012.07.22 @ 10:21:30  
 Time Off Btm: 2012.07.22 @ 18:03:30

**TEST COMMENT:** 1ST Open 5 Mintues/Strong blow/Blow to bottom of bucket in 1 minute  
 1ST Shut In 90 Mintues/Blow back built to 1 inch  
 2ND Open 120 Mintues/Strong blow/Blow to bottom of bucket in 2 minutes/Gas to surface in 66 minutes  
 2ND Shut In 240 Minutes/Blow back built to 10 inches



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1651.67	104.38	Initial Hydro-static
4	76.45	104.06	Open To Flow (1)
8	96.35	104.02	Shut-In(1)
98	950.57	104.59	End Shut-In(1)
99	117.90	104.43	Open To Flow (2)
219	281.82	104.54	Shut-In(2)
461	935.54	104.69	End Shut-In(2)
462	1532.89	104.82	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
360.00	Slightly gassy Muddy Water	2.04
0.00	Gas 5% Mud 20% Water 75%	0.00
90.00	Slightly gassy Mud	1.26
0.00	Gas 2% Mud 98%	0.00
0.00	Recovery Chlorides 95000 ppm	0.00
0.00	Recovery Resist. .18 ohms @ 92 deg.	0.00

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	3.00	1.12
Last Gas Rate	0.13	4.46	1.67
Max. Gas Rate	0.13	4.46	1.67



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Falcon Exploration Incorporated

**27/28S/30W/Gray**

125 North Market  
Suite 1252  
Wichita, Kansas 67202+1719  
ATTN: Ted Pfau

**Fredrick Goossen1-27**

Job Ticket: 17665      **DST#: 1**  
Test Start: 2012.07.22 @ 08:03:00

## Tool Information

Drill Pipe:	Length: 3102.00 ft	Diameter: 3.80 inches	Volume: 43.51 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: 100000.0 lb
			<u>Total Volume: 45.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	3454.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.37 ft			
Tool Length:	98.37 ft			
Number of Packers:	2	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			3432.00	
Hydraulic Tool	5.00			3437.00	
Jars	5.00			3442.00	
Safety Joint	2.00			3444.00	
Packer	5.00			3449.00	27.00      Bottom Of Top Packer
Packer	5.00			3454.00	
Perforations	5.00			3459.00	
Change Over Sub	0.75			3459.75	
Drill Pipe	31.87			3491.62	
Change Over Sub	0.75			3492.37	
Anchor	28.00			3520.37	
Recorder	1.00	6749	Inside	3521.37	
Recorder	1.00	6999	Outside	3522.37	
Bullnose	3.00			3525.37	71.37      Bottom Packers & Anchor

**Total Tool Length: 98.37**



# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Falcon Exploration Incorporated

**27/28S/30W/Gray**

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**Fredrick Goossen1-27**

Job Ticket: 17665      **DST#: 1**  
Test Start: 2012.07.22 @ 08:03:00

## 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:	ppm
Viscosity: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.37 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 1400.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
360.00	Slightly gassy Muddy Water	2.044
0.00	Gas 5% Mud 20% Water 75%	0.000
90.00	Slightly gassy Mud	1.262
0.00	Gas 2% Mud 98%	0.000
0.00	Recovery Chlorides 95000 ppm	0.000
0.00	Recovery Resist. .18 ohms @ 92 deg.	0.000

Total Length: 450.00 ft      Total Volume: 3.306 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:



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**GAS RATES**

Falcon Exploration Incorporated

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Job Ticket: 17665 **DST#: 1**

Test Start: 2012.07.22 @ 08:03:00

## 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	70	0.13	3.00	1.12
2	70	0.13	3.00	1.12
2	80	0.13	4.25	1.59
2	90	0.13	4.01	1.50
2	100	0.13	3.72	1.39
2	110	0.13	4.25	1.59
2	120	0.13	4.46	1.67

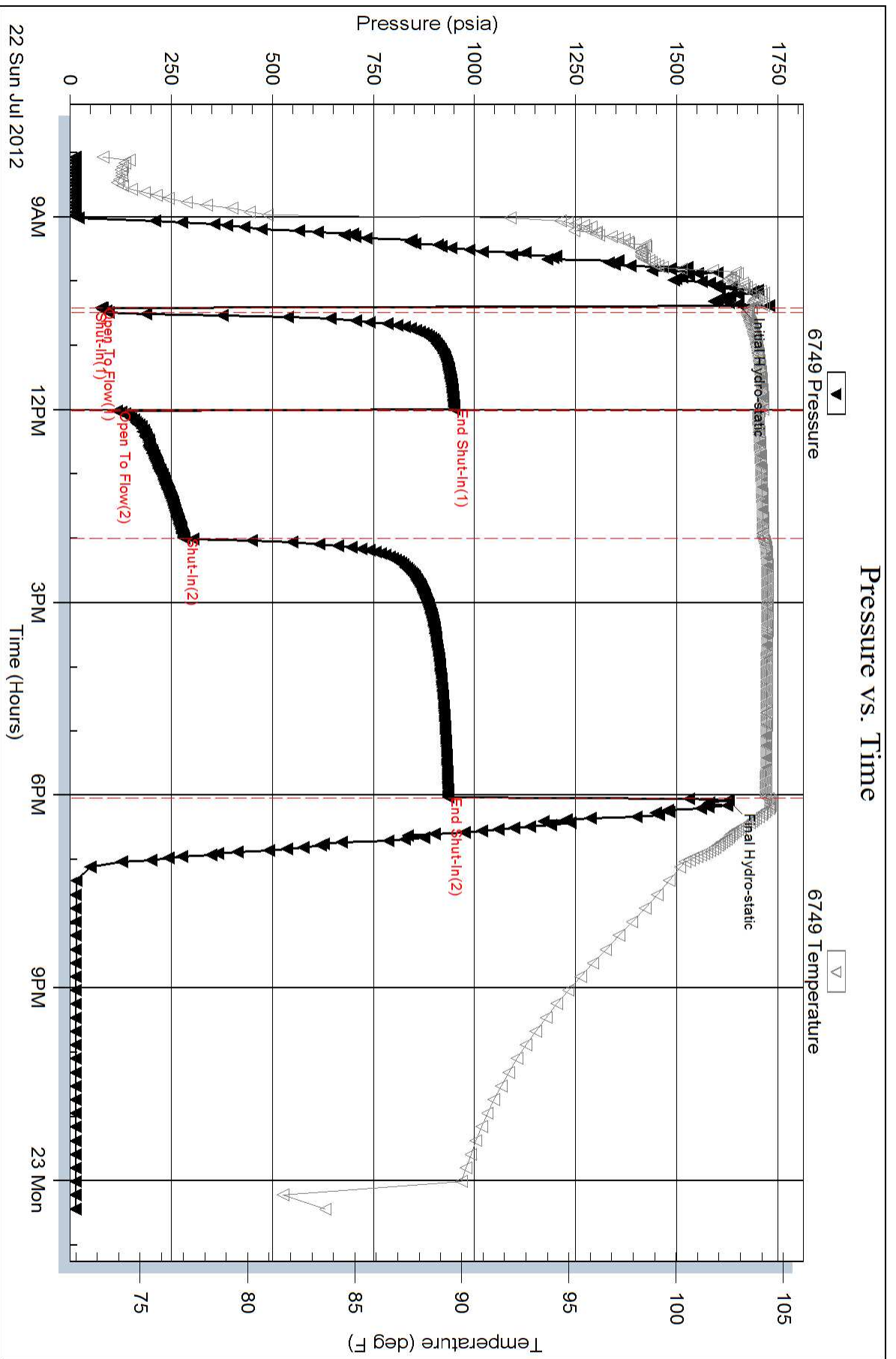
Serial #: 6749

Inside

Falcon Exploration Incorporated

Fredrick Goossen 1-27

DST Test Number: 1



Superior Testers Enterprises LLC

Ref. No: 17665

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