



## DRILL STEM TEST REPORT

Prepared For: **Carrie Exploration and Development L.L.C.**

210 West 22nd Street  
Hays ,Kansas 67601

ATTN: Herb Deines

**25-19s-11w**

**Lundgren #C-1**

Start Date: 2010.12.19 @ 12:30:00

End Date: 2010.12.19 @ 00:00:00

Job Ticket #: 15755                      DST #: 2

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

Printed: 2010.12.19 @ 17:12:12



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Test Start: 2010.12.19 @ 12:30:00

## GENERAL INFORMATION:

Formation: **Kansas City "F & G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig`

Unit No: 3335-38

**Interval: 3095.00 ft (KB) To 3125.00 ft (KB) (TVD)**

Reference Elevations: 1776.00 ft (KB)

Total Depth: 3125.00 ft (KB) (TVD)

1766.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8524 Inside**

Press @ Run Depth: 239.07 psia @ 3121.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.12.19

End Date: 2010.12.19

Last Calib.: 2010.12.19

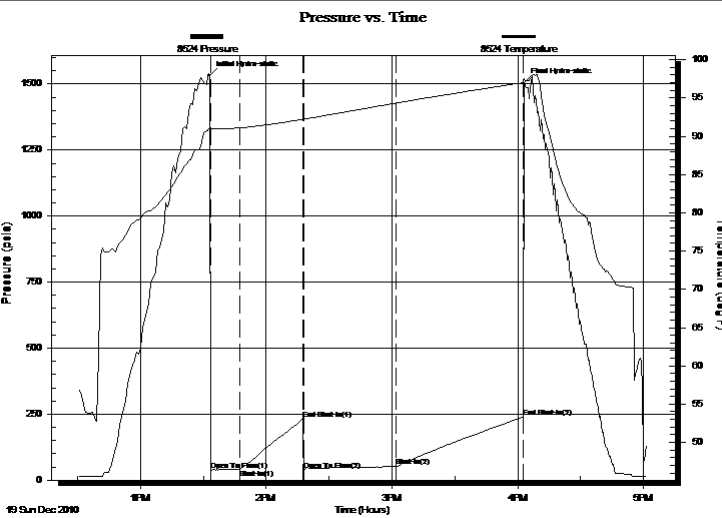
Start Time: 12:30:00

End Time: 17:01:30

Time On Btm: 2010.12.19 @ 13:33:00

Time Off Btm: 2010.12.19 @ 16:03:00

**TEST COMMENT:** 1st Opening 15 Minutes-Weak blow built to 5 inches into the water  
 1st Shut-In 30 Minutes-No blow back  
 2nd Opening 45 Minutes-Weak blow built to the bottom of a 5 gallon bucket in 45 minutes  
 2nd Shut-In 60 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1533.64	91.07	Initial Hydro-static
1	37.87	90.97	Open To Flow (1)
15	42.13	91.12	Shut-In(1)
45	232.52	92.22	End Shut-In(1)
45	38.94	92.25	Open To Flow (2)
89	50.83	94.34	Shut-In(2)
150	239.07	97.00	End Shut-In(2)
150	1504.05	97.57	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	Gas in the pipe	0.84
35.00	Drilling Mud	0.49

## Gas Rates

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



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**TOOL DIAGRAM**

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## Tool Information

Drill Pipe:	Length: 3100.00 ft	Diameter: 3.80 inches	Volume: 43.48 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.76 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:	38000.00 lb
			<u>Total Volume: 43.48 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	30000.00 lb
Depth to Top Packer:	3095.00 ft			Final	30000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	50.00 ft				
Number of Packers:	2	Diameter:	inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3080.00	
Hydraulic Tool	5.00			3085.00	
Packer	5.00			3090.00	20.00 Bottom Of Top Packer
Packer	5.00			3095.00	
Perforations	25.00			3120.00	
Recorder	1.00	8524	Inside	3121.00	
Recorder	1.00	6663	Outside	3122.00	
Bull Plug	3.00			3125.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 50.00**



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## FLUID SUMMARY

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### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 10.00 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Gas in the pipe	0.842
35.00	Drilling Mud	0.491

Total Length: 95.00 ft      Total Volume: 1.333 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

