



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 @ 01:00:00

End Date: 2010.12.19 @ 00:00:00

Job Ticket #: 15754 DST #: 1

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

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Test Start: 2010.12.19 @ 01:00:00

GENERAL INFORMATION:

Formation: **Kansas City "A-B-C-D"**

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: **3032.00 ft (KB) To 3080.00 ft (KB) (TVD)**

Reference Elevations: 1776.00 ft (KB)

Total Depth: 3080.00 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 @ RunDepth: 685.46 psia @ 3075.82 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.12.19

End Date: 2010.12.19

Last Calib.: 2010.12.19

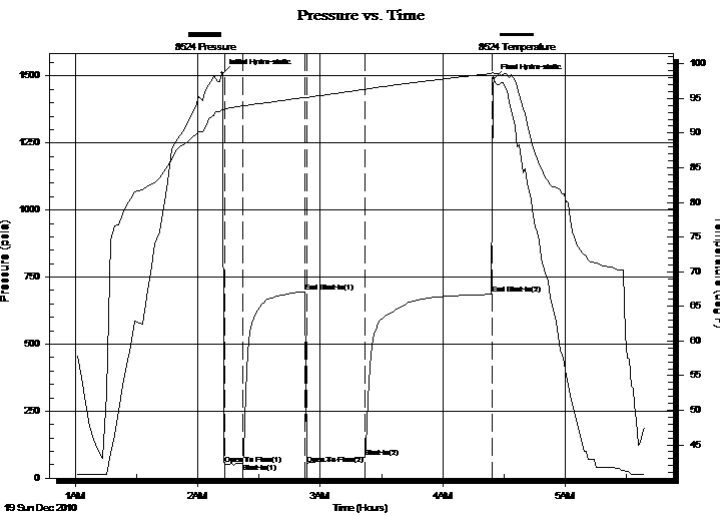
Start Time: 01:00:00

End Time: 05:39:30

Time On Btm: 2010.12.19 @ 02:12:00

Time Off Btm: 2010.12.19 @ 04:25:00

TEST COMMENT: 1st Opeing 10 Minutes Strong blow built to the bottom of a 5 gallon bucet in 1 minute
 1st Shut-In 30 Minutes-No blow back
 2nd Opening 30 Minutes-Strong blow w with gas to surface in 12 minutes
 2nd Shut-In 60 Minutes-Fair blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1510.62	93.38	Initial Hydro-static
1	51.03	93.42	Open To Flow (1)
10	55.93	93.91	Shut-In(1)
41	695.08	95.16	End Shut-In(1)
42	53.00	95.16	Open To Flow (2)
70	78.67	96.31	Shut-In(2)
132	685.46	98.60	End Shut-In(2)
133	1491.46	98.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Drilling mud	0.84
50.00	Muddy Wateer	0.70
0.00	70%Water 30% Mud Chroides 62000	0.00
0.00	Resisitivity .21 @46 Degrees	0.00

Gas Rates

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



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TOOL DIAGRAM

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DST#: 1

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Test Start: 2010.12.19 @ 01:00:00

Tool Information

Drill Pipe:	Length: 3036.00 ft	Diameter: 3.80 inches	Volume: 42.59 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: 42.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3032.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.82 ft			
Tool Length:	67.82 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3017.00	
Hydraulic Tool	5.00			3022.00	
Packer	5.00			3027.00	20.00 Bottom Of Top Packer
Packer	5.00			3032.00	
Perforations	5.00			3037.00	
Change Over Sub	0.75			3037.75	
Drill Pipe	31.32			3069.07	
Change Over Sub	0.75			3069.82	
Perforations	5.00			3074.82	
Recorder	1.00	8524	Inside	3075.82	
Recorder	1.00	6663	Outside	3076.82	
Bull Plug	3.00			3079.82	47.82 Bottom Packers & Anchor

Total Tool Length: 67.82



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FLUID SUMMARY

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Test Start: 2010.12.19 @ 01:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 10.00 in³
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: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Drilling mud	0.842
50.00	Muddy Water	0.701
0.00	70%Water 30% Mud Chlorides 62000	0.000
0.00	Resistivity .21 @46 Degrees	0.000

Total Length: 110.00 ft Total Volume: 1.543 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

