



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: 2010.12.20 @ 09:30:00

End Date: 2010.12.20 @ 00:00:00

Job Ticket #: 15756 DST #: 3

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

Printed: 2010.12.20 @ 11:46:02



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Lundgren #C-1

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Job Ticket: 15756

DST#: 3

ATTN: Herb Deines

Test Start: 2010.12.20 @ 09:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 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: 3335-18
 Interval: **3280.00 ft (KB) To 3303.00 ft (KB) (TVD)**
 Reference Elevations: 1776.00 ft (KB)
 Total Depth: 3303.00 ft (KB) (TVD)
 1766.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 10.00 ft

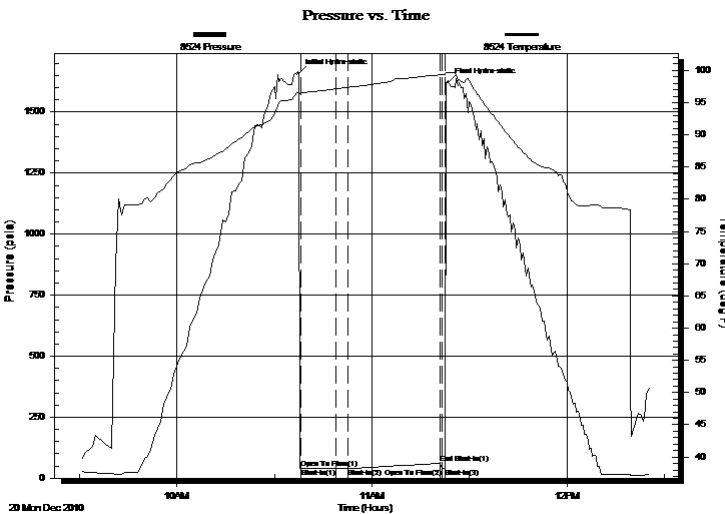
Serial #: 8524

Inside

Press @ Run Depth: 61.07 psia @ 3299.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.12.20 End Date: 2010.12.20 Last Calib.: 2010.12.20
 Start Time: 09:30:00 End Time: 12:25:30 Time On Btm: 2010.12.20 @ 10:37:30
 Time Off Btm: 2010.12.20 @ 11:23:30

TEST COMMENT: 1st Opening 15 Minutes-Very weak surface blow for 5 minutes and died
 1st Shut-In 30 Minutes-No blow
 2nd Opening 03 Minutes-10-12 bubbles and died

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1659.63	96.56	Initial Hydro-static
1	39.00	96.45	Open To Flow (1)
12	38.79	97.13	Shut-In(1)
15	39.53	97.34	Shut-In(2)
44	61.07	99.30	End Shut-In(1)
44	41.57	99.33	Open To Flow (2)
45	40.01	99.42	Shut-In(3)
46	1622.00	99.59	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
5.00	Very slightly oil spotted mu0	0.07
0.00	there w as a good show of free oil on top	0.00

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



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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: 3335-18

Interval: 3280.00 ft (KB) To 3303.00 ft (KB) (TVD)

Reference Elevations: 1776.00 ft (KB)

Total Depth: 3303.00 ft (KB) (TVD)

1766.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 27799 Outside

Press @ RunDepth: 65.94 psia @ 3300.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.12.20

End Date: 2010.12.20

Last Calib.: 2010.12.20

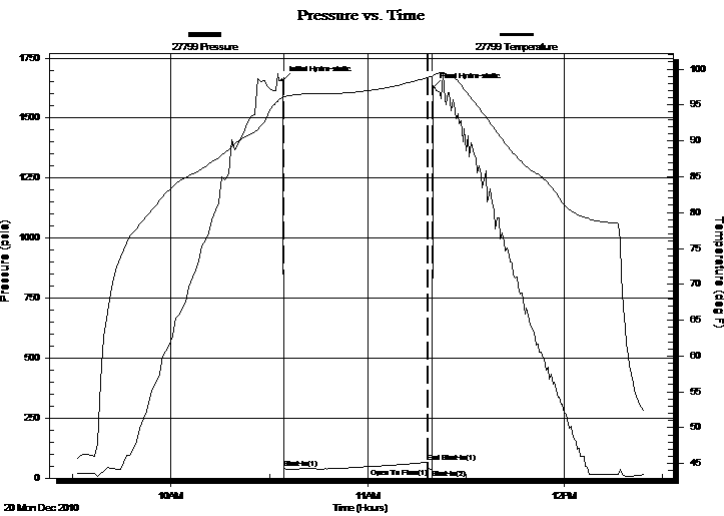
Start Time: 09:30:00

End Time: 12:24:29

Time On Btm: 2010.12.20 @ 10:34:00

Time Off Btm: 2010.12.20 @ 11:20:00

TEST COMMENT: 1st Opening 15 Minutes-Very weak surface blow for 5 minutes and died
1st Shut-In 30 Minutes-No blow
2nd Opening 03 Minutes-10-12 bubbles and died



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1656.47	96.02	Initial Hydro-static
1	39.72	96.14	Shut-In(1)
44	65.94	98.78	End Shut-In(1)
45	39.11	98.84	Open To Flow (1)
46	38.44	98.96	Shut-In(2)
46	1627.11	99.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Very slightly oil spotted mu0	0.07
0.00	there w as a good show of free oil on top	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Carrie Exploration and Development L.L.C.

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25-19s-11w

Job Ticket: 15756

DST#: 3

ATTN: Herb Deines

Test Start: 2010.12.20 @ 09:30:00

Tool Information

Drill Pipe:	Length: 3290.00 ft	Diameter: 3.89 inches	Volume: 48.36 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:	200000.0 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: 48.36 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	32000.00 lb
Depth to Top Packer:	3280.00 ft			Final	32000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	23.00 ft				
Tool Length:	43.00 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			3265.00	
Hydraulic Tool	5.00			3270.00	
Packer	5.00			3275.00	20.00 Bottom Of Top Packer
Packer	5.00			3280.00	
Perforations	18.00			3298.00	
Recorder	1.00	8524	Inside	3299.00	
Recorder	1.00	93335	Outside	3300.00	
Bull Plug	3.00			3303.00	23.00 Bottom Packers & Anchor

Total Tool Length: 43.00



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FLUID SUMMARY

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Test Start: 2010.12.20 @ 09:30:00

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: ppm

Viscosity: 47.00 sec/qt

Cushion Volume: bbl

Water Loss: 9.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psia

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Very slightly oil spotted mu0	0.073
0.00	there w as a good show of free oil on top	0.000

Total Length: 5.00 ft Total Volume: 0.073 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

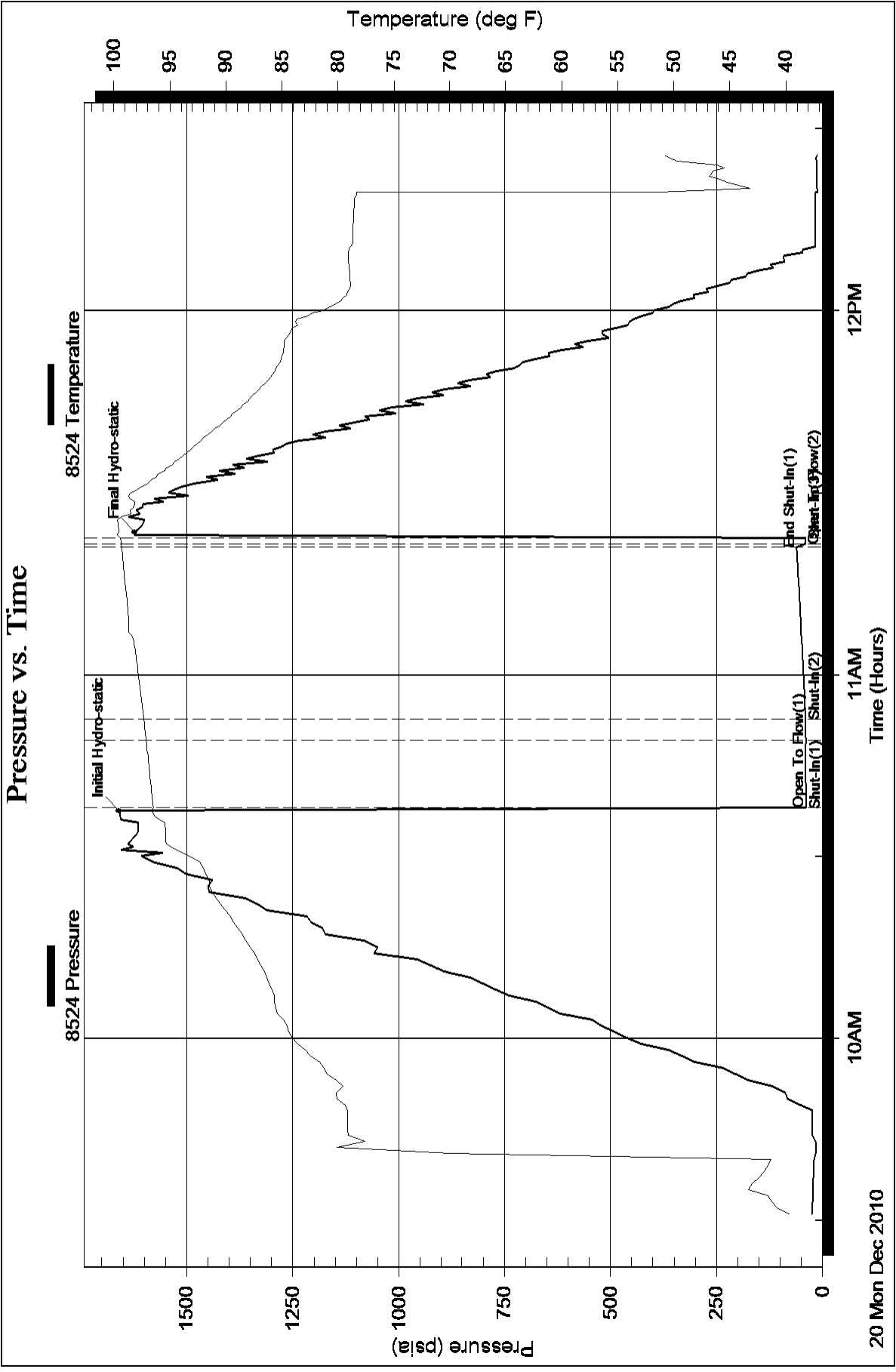
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

