



DRILL STEM TEST REPORT

Prepared For: **L.B.Exploration**
2135 2nd Road
Holyrood Kansas 67450-9021

ATTN: Jim Musgrove

6-18s-11w Barton

Hayden #1

Start Date: 2011.03.20 @ 10:45:00
End Date: 2011.03.20 @ 00:00:00
Job Ticket #: 15785 DST #: 1

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

Printed: 2011.03.28 @ 12:23:30

L.B.Exploration
Hayden #1
6-18s-11w Barton
DST # 1
Kansas City "A-F"
2011.03.20



DRILL STEM TEST REPORT

L.B. Exploration
 2135 2nd Road
 Holyrood Kansas 67450-9021
 ATTN: Jim Musgrove

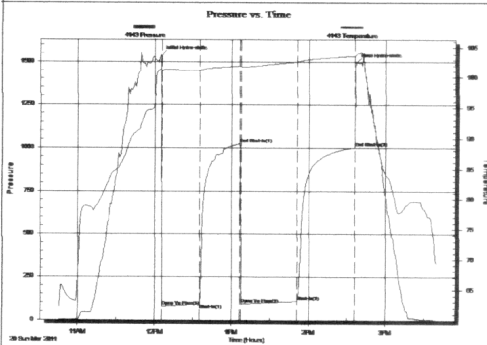
Hayden #1
6-18s-11w Barton
 Job Ticket: 15785 **DST#: 1**
 Test Start: 2011.03.20 @ 10:45:00

GENERAL INFORMATION:

Formation: **Kansas City "A-F"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:00:00
 Tester: Gene Budig
 Time Test Ended: 00:00:00
 Unit No: 3335-
 Interval: **3091.00 ft (KB) To 3167.00 ft (KB) (TVD)**
 Reference Elevations: 1842.00 ft (KB)
 Total Depth: 3167.00 ft (KB) (TVD) 1835.00 ft (CF)
 Hole Diameter: 7.88 inches-Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 4143 Inside
 Press@RunDepth: 1001.94 psia @ 3162.83 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.03.20 End Date: 2011.03.20 Last Calib.: 2011.03.20
 Start Time: 10:45:30 End Time: 15:39:30 Time On Btm: 2011.03.20 @ 12:05:00
 Time Off Btm: 2011.03.20 @ 14:37:00

TEST COMMENT: 1st Opening 30 Minutes weak building blow built to 4 inches into the water
 1st Shut-In 30 Minutes-No blow back
 2nd Opening 45 Minutes-Weak building blow built to 4 inches into the water
 2nd Shut-In 45 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1536.85	101.32	Initial Hydro-static
1	75.45	101.21	Open To Flow (1)
30	90.10	101.26	Shut-in(1)
61	1024.30	101.93	End Shut-In(1)
62	91.11	101.88	Open To Flow (2)
106	106.07	102.66	Shut-in(2)
151	1001.94	103.68	End Shut-In(2)
152	1497.18	103.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	Drilling mud	1.54

Gas Rates

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



DRILL STEM TEST REPORT

L.B.Exploration
 2135 2nd Road
 Holyrood Kansas 67450-9021
 ATTN: Jim Musgrove

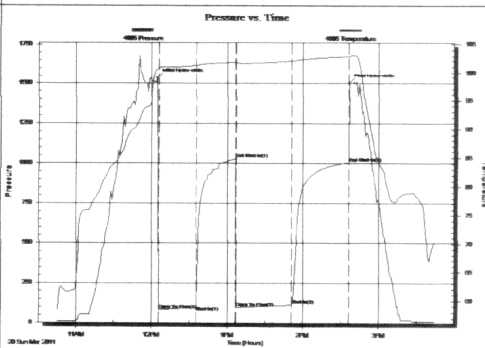
Hayden #1
6-18s-11w Barton
 Job Ticket: 15785 **DST#: 1**
 Test Start: 2011.03.20 @ 10:45:00

GENERAL INFORMATION:

Formation: **Kansas City "A-F"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:00:00
 Tester: Gene Budig
 Time Test Ended: 00:00:00
 Unit No: 3335-
 Interval: **3091.00 ft (KB) To 3167.00 ft (KB) (TVD)**
 Reference Elevations: 1842.00 ft (KB)
 Total Depth: 3167.00 ft (KB) (TVD) 1835.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 4005 Outside
 Press@RunDepth: 1005.93 psia @ 3163.83 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.03.20 End Date: 2011.03.20 Last Calib.: 2011.03.20
 Start Time: 10:45:30 End Time: 15:45:00 Time On Btm: 2011.03.20 @ 12:04:30
 Time Off Btm: 2011.03.20 @ 14:36:30

TEST COMMENT: 1st Opening 30 Minutes weak building blow built to 4 inches into the water
 1st Shut-In 30 Minutes-No blow back
 2nd Opening 45 Minutes-Weak building blow built to 4 inches into the water
 2nd Shut-In 45 Minutes-No blow back



PRESSURE SUMMARY

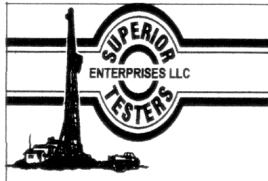
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1535.02	100.68	Initial Hydro-static
1	78.19	100.90	Open To Flow (1)
32	102.38	101.21	Shut-In(1)
62	1029.46	101.81	End Shut-In(1)
63	96.07	101.80	Open To Flow (2)
107	110.20	102.02	Shut-In(2)
152	1005.93	102.86	End Shut-In(2)
152	1503.90	102.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	Drilling mud	1.54

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

L.B.Exploration

Hayden #1

2135 2nd Road
Holyrood Kansas 67450-9021

6-18s-11w Barton

Job Ticket: 15785

DST#: 1

ATTN: Jim Musgrove

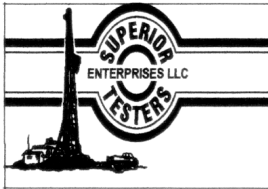
Test Start: 2011.03.20 @ 10:45:00

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: 2.86 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: 54000.00 lb
			Total Volume: 43.48 bbl	Tool Chased 8.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3091.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.83 ft			
Tool Length:	96.83 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3071.00	
Shut-In Tool	5.00			3076.00	
Hydroic Tool	5.00			3081.00	
Packer	5.00			3086.00	21.00 Bottom Of Top Packer
Packer	5.00			3091.00	
Perforations	4.00			3095.00	
Change Over Sub	0.75			3095.75	
Drill Pipe	31.33			3127.08	
Change Over Sub	0.75			3127.83	
Perforations	34.00			3161.83	
Recorder	1.00	4143	Inside	3162.83	
Recorder	1.00	4005	Outside	3163.83	
Bullnose	3.00			3166.83	75.83 Bottom Packers & Anchor
Total Tool Length:	96.83				



DRILL STEM TEST REPORT

FLUID SUMMARY

L.B.Exploration

Hayden #1

2135 2nd Road
Holyrood Kansas 67450-9021

6-18s-11w Barton

Job Ticket: 15785

DST#: 1

ATTN: Jim Musgrove

Test Start: 2011.03.20 @ 10:45:00

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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3800.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
110.00	Drilling mud	1.543

Total Length: 110.00 ft Total Volume: 1.543 bbl

Num Fluid Samples: 0

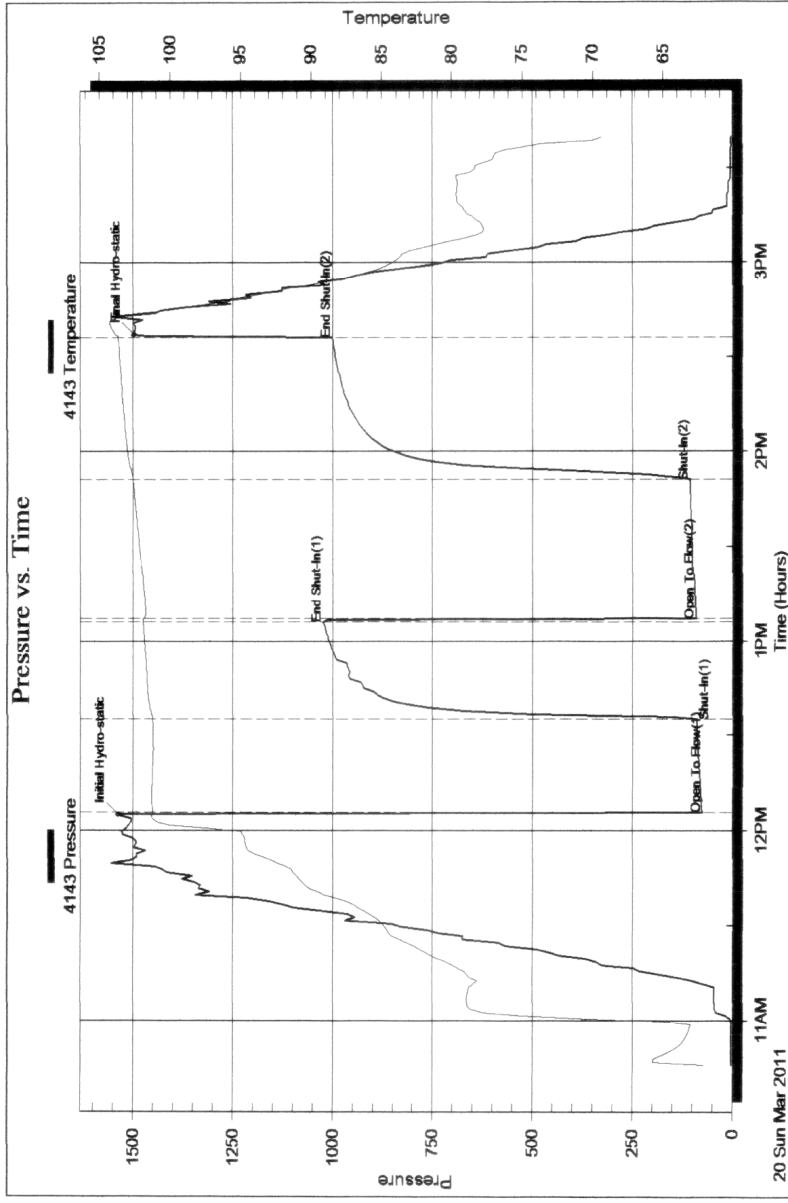
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

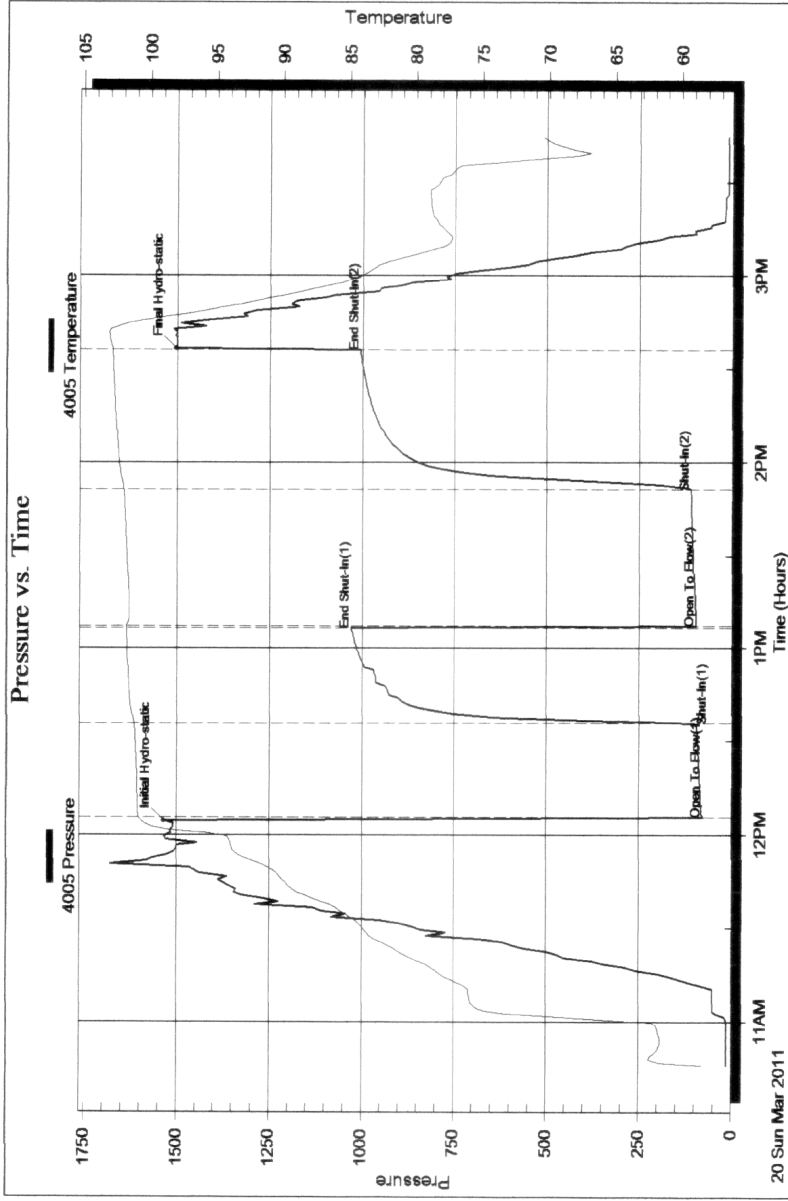
Recovery Comments:



DST Test Number: 1

6-18s-11w Barton

Serial #: 4005 Outside L.B. Exploration



Printed: 2011.03.28 @ 12:23:32

Ref. No: 15785

Superior Testers Enterprises LLC



DRILL STEM TEST REPORT

Prepared For: **L.B.Exploration**
2135 2nd Road
Holyrood Kansas 67450-9021

ATTN: Jim Musgrove

6-18s-11w Barton

Hayden #1

Start Date: 2011.03.21 @ 03:15:00
End Date: 2011.03.21 @ 00:00:00
Job Ticket #: 15786 DST #: 2

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

Printed: 2011.03.28 @ 12:23:18

L.B.Exploration
Hayden #1
6-18s-11w Barton
DST # 2
Kansas City
2011.03.21



DRILL STEM TEST REPORT

L.B.Exploration
 2135 2nd Road
 Holyrood Kansas 67450-9021
 ATTN: Jim Musgrove

Hayden #1
6-18s-11w Barton
 Job Ticket: 15786 **DST#: 2**
 Test Start: 2011.03.21 @ 03:15:00

GENERAL INFORMATION:

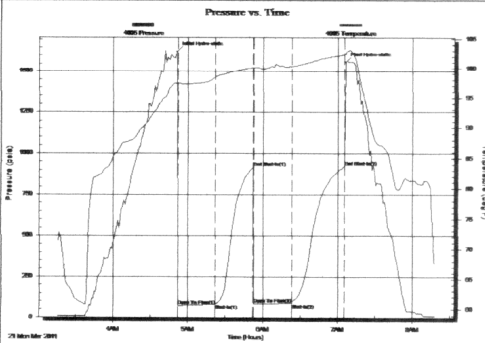
Formation: **Kansas City**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:00:00
 Tester: Gene Budig
 Time Test Ended: 00:00:00
 Unit No: 3335-39
 Interval: **3201.00 ft (KB) To 3300.00 ft (KB) (TVD)**
 Reference Elevations: 1842.00 ft (KB)
 Total Depth: 3300.00 ft (KB) (TVD)
 1835.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 7.00 ft

Serial #: 4005

Inside

Press@RunDepth: 918.17 psia @ 3296.11 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.03.21 End Date: 2011.03.21 Last Calib.: 2011.03.21
 Start Time: 03:15:30 End Time: 08:18:30 Time On Btm: 2011.03.21 @ 04:51:00
 Time Off Btm: 2011.03.21 @ 07:06:30

TEST COMMENT: 1st Opening 30 Minutes weak blow for 23 minutes and died
 1st Shut-In 30 Minutes-No blow back
 2nd Opening 30 Minutes-Weak blow for 7 minutes and died
 2nd Shut-In 45 Minutes -No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1625.61	97.48	Initial Hydro-static
1	71.08	97.53	Open To Flow (1)
31	79.93	98.42	Shut-In(1)
61	915.62	100.11	End Shut-In(1)
62	82.32	100.07	Open To Flow (2)
92	85.52	100.35	Shut-In(2)
135	918.17	102.33	End Shut-In(2)
136	1559.96	102.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Drilling mud	0.56

Gas Rates

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



DRILL STEM TEST REPORT

L.B.Exploration
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 ATTN: Jim Musgrove

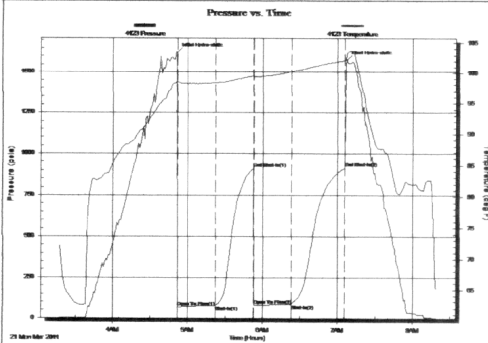
Hayden #1
6-18s-11w Barton
 Job Ticket: 15786 **DST#: 2**
 Test Start: 2011.03.21 @ 03:15:00

GENERAL INFORMATION:

Formation: **Kansas City**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:00:00 Tester: Gene Budig
 Time Test Ended: 00:00:00 Unit No: 3335-39
 Interval: **3201.00 ft (KB) To 3300.00 ft (KB) (TVD)** Reference Elevations: 1842.00 ft (KB)
 Total Depth: 3300.00 ft (KB) (TVD) 1835.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 4123 Outside
 Press@RunDepth: 915.55 psia @ 3297.11 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.03.21 End Date: 2011.03.21 Last Calib.: 2011.03.21
 Start Time: 03:17:30 End Time: 08:19:30 Time On Btm: 2011.03.21 @ 04:51:29
 Time Off Btm: 2011.03.21 @ 07:07:30

TEST COMMENT: 1st Opening 30 Minutes weak blow for 23 minutes and died
 1st Shut-In 30 Minutes-No blow back
 2nd Opening 30 Minutes-Weak blow for 7 minutes and died
 2nd Shut-In 45 Minutes -No blow back



PRESSURE SUMMARY

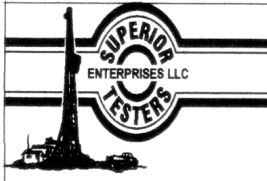
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1621.06	98.67	Initial Hydro-static
1	68.10	98.60	Open To Flow (1)
31	77.76	98.35	Shut-In(1)
62	913.40	99.44	End Shut-In(1)
62	78.85	99.41	Open To Flow (2)
92	84.85	100.26	Shut-In(2)
135	915.55	102.14	End Shut-In(2)
137	1576.89	103.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Drilling mud	0.56

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

L.B. Exploration
 2135 2nd Road
 Holyrood Kansas 67450-9021
 ATTN: Jim Musgrove

Hayden #1
6-18s-11w Barton
 Job Ticket: 15786 **DST#: 2**
 Test Start: 2011.03.21 @ 03:15:00

Tool Information

Drill Pipe:	Length: 3194.00 ft	Diameter: 3.80 inches	Volume: 44.80 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 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: 54000.00 lb
			Total Volume: 44.80 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3201.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	99.11 ft			
Tool Length:	120.11 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3181.00	
Shut-in Tool	5.00			3186.00	
Hydroic Tool	5.00			3191.00	
Packer	5.00			3196.00	21.00 Bottom Of Top Packer
Packer	5.00			3201.00	
Perforations	5.00			3206.00	
Change Over Sub	0.75			3206.75	
Drill Pipe	60.61			3267.36	
Change Over Sub	0.75			3268.11	
Perforations	27.00			3295.11	
Recorder	1.00	4005	Inside	3296.11	
Recorder	1.00	4123	Outside	3297.11	
Bullnose	3.00			3300.11	99.11 Bottom Packers & Anchor
Total Tool Length:	120.11				



DRILL STEM TEST REPORT

FLUID SUMMARY

L.B.Exploration
 2135 2nd Road
 Holyrood Kansas 67450-9021
 ATTN: Jim Musgrove

Hayden #1
6-18s-11w Barton
 Job Ticket: 15786 **DST#: 2**
 Test Start: 2011.03.21 @ 03:15:00

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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.29 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3800.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Drilling mud	0.561

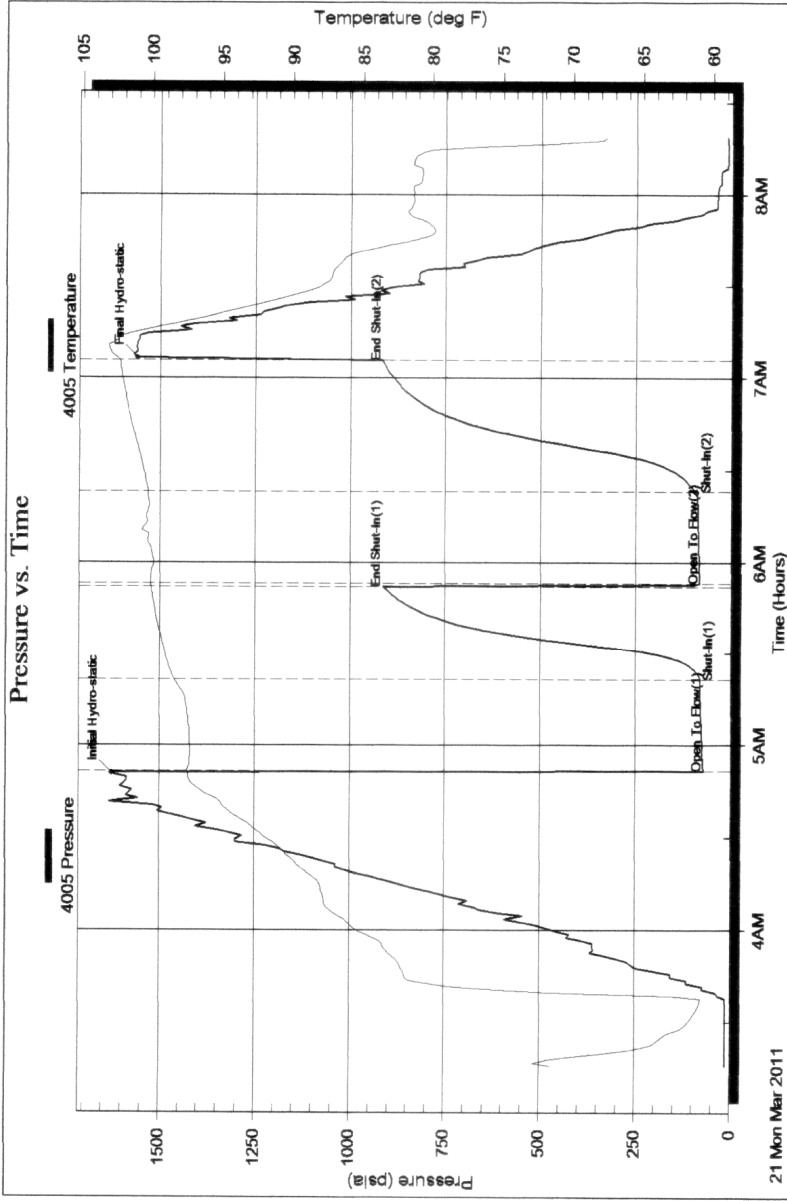
Total Length: 40.00 ft Total Volume: 0.561 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

DST Test Number: 2

6-18s-11w Barton

Inside L.B.Exploration

Serial #: 4005



21 Mon Mar 2011

Ref. No: 15786

Superior Testers Enterprises LLC

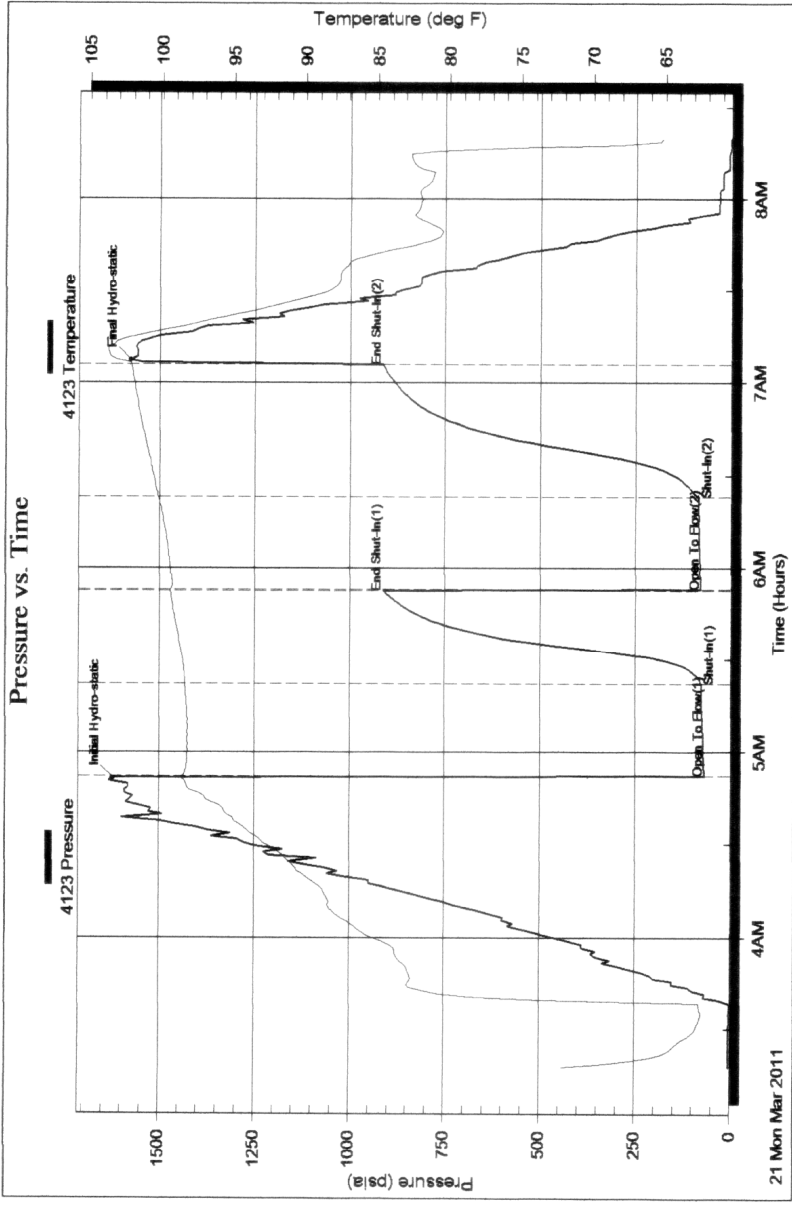
Printed: 2011.03.28 @ 12:23:18

Serial #: 4123

Outside L.B.Exploration

6-18s-11w Barton

DST Test Number: 2



21 Mon Mar 2011

Ref. No: 15786

Superior Testers Enterprises LLC

Printed: 2011.03.28 @ 12:23:19