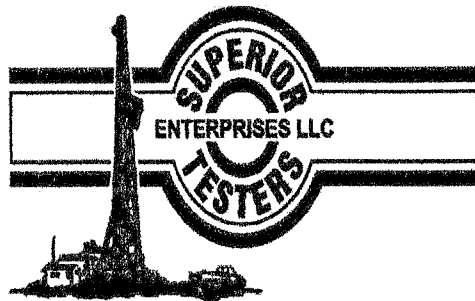


15-009-25386

34-19s-11w



DRILL STEM TEST REPORT

Prepared For: **Carrie Exploration & Development**

210 West 22nd Street
Hays, Kansas 67601

ATTN: Herb Deines

34-19s-11w Barton

Thomas Farms #C-1

Start Date: 2010.02.18 @ 05:30:00

End Date: 2010.02.18 @ 00:00:00

Job Ticket #: 16260 DST #: 1

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

Printed: 2010.02.22 @ 16:33:42

Carrie Exploration & Development

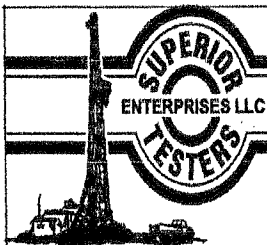
Thomas Farms #C-1

34-19s-11w Barton

DST # 1

Douglas

2010.02.18



DRILL STEM TEST REPORT

Carrie Exploration & Development

Thomas Farms #C-1

210 West 22nd Street
Hays, Kansas 67601

34-19s-11w Barton

Job Ticket: 16260

DST#: 1

ATTN: Herb Deines

Test Start: 2010.02.18 @ 05:30:00

GENERAL INFORMATION:

Formation: **Douglas**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Interval: **2934.00 ft (KB) To 2998.00 ft (KB) (TVD)**

Total Depth: **2998.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335-30

Reference Elevations: 1782.00 ft (KB)

1772.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: **8425**

Outside

Press@RunDepth: 85.50 psia @ 2995.00 ft (KB)

Start Date: 2010.02.18

End Date:

2010.02.18

Start Time: 05:31:00

End Time:

10:20:00

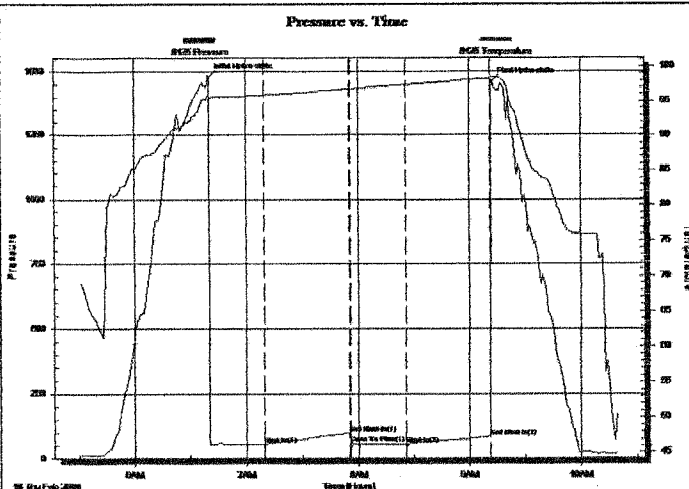
Capacity: 5000.00 psia

Last Calib.: 2010.02.18

Time On Btm: 2010.02.18 @ 06:40:00

Time Off Btm: 2010.02.18 @ 09:12:00

TEST COMMENT:



PRESSURE SUMMARY

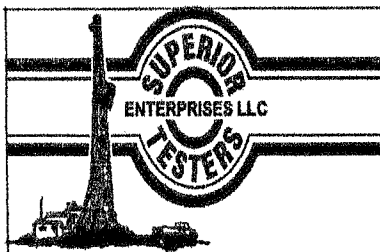
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1480.30	95.84	Initial Hydro-static
30	54.37	95.85	Shut-In(1)
75	99.89	96.72	End Shut-In(1)
76	58.39	96.73	Open To Flow (1)
106	54.73	97.39	Shut-In(2)
151	85.50	98.29	End Shut-In(2)
152	1460.45	98.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	oil cut mud 30% oil 70 % Md	0.21

Gas Rates

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



DRILL STEM TEST REPORT

Carrie Exploration & Development

Thomas Farms #C-1

210 West 22nd Street
Hays, Kansas 67601

34-19s-11w Barton

Job Ticket: 16260

DST#: 1

ATTN: Herb Deines

Test Start: 2010.02.18 @ 05:30:00

GENERAL INFORMATION:

Formation: **Douglas**

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: 3335-30

Interval: 2934.00 ft (KB) To 2998.00 ft (KB) (TVD)

Reference Elevations: 1782.00 ft (KB)

Total Depth: 2998.00 ft (KB) (TVD)

1772.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8405

Inside

Press@RunDepth: 85.97 psia @ 2994.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.02.18

End Date:

2010.02.18

Last Calib.: 2010.02.18

Start Time: 05:30:01

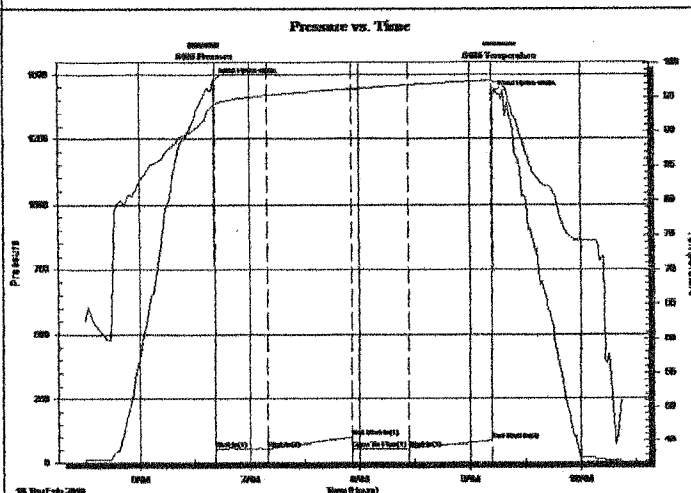
End Time:

10:22:16

Time On Btm: 2010.02.18 @ 06:40:46

Time Off Btm: 2010.02.18 @ 09:12:16

TEST COMMENT:



PRESSURE SUMMARY

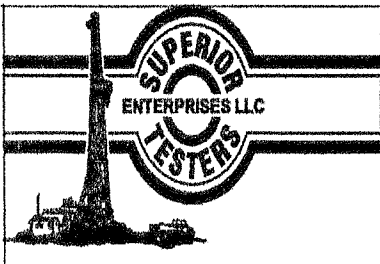
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1474.85	93.96	Initial Hydro-static
1	54.37	94.01	Shut-In(1)
30	54.38	95.29	Shut-In(2)
75	100.56	96.25	End Shut-In(1)
76	54.21	96.26	Open To Flow (1)
107	55.72	96.81	Shut-In(3)
151	85.97	97.51	End Shut-In(2)
152	1421.32	97.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	oil cut mud 30% oil 70 % Md	0.21

Gas Rates

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



DRILL STEM TEST REPORT

FLUID SUMMARY

Carrie Exploration & Development

Thomas Farms #C-1

210 West 22nd Street
Hays, Kansas 67601

34-19s-11w Barton

Job Ticket: 16260

DST#: 1

ATTN: Herb Deines

Test Start: 2010.02.18 @ 05:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.76 in⁹

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 2800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	oil cut mud 30% oil 70 % Md	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

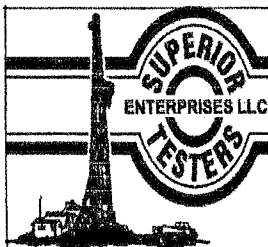
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

TOOL DIAGRAM

Carrie Exploration & Development

Thomas Farms #C-1

210 West 22nd Street
Hays, Kansas 67601

34-19s-11w Barton

Job Ticket: 16260

DST#: 1

ATTN: Herb Deines

Test Start: 2010.02.18 @ 05:30:00

Tool Information

Drill Pipe:	Length: 2934.00 ft	Diameter: 3.80 inches	Volume: 41.16 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	45000.00 lb	
			Total Volume:	41.16 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	35000.00 lb	
Depth to Top Packer:	2934.00 ft			Final	35000.00 lb	
Depth to Bottom Packer:	ft					
Interval between Packers:	64.00 ft					
Tool Length:	85.00 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			2914.00	
Shut-in Tool	5.00			2919.00	
Hydraulic Tool	5.00			2924.00	
Packer	5.00			2929.00	21.00 Bottom Of Top Packer
Packer	5.00			2934.00	
Change Over Sub	1.00			2935.00	
Drill Pipe	31.00			2966.00	
Change Over Sub	1.00			2967.00	
Anchor	26.00			2993.00	
Recorder	1.00	8405	Inside	2994.00	
Recorder	1.00	8425	Outside	2995.00	
Bulinose	3.00			2998.00	64.00 Bottom Packers & Anchor
Total Tool Length:		85.00			

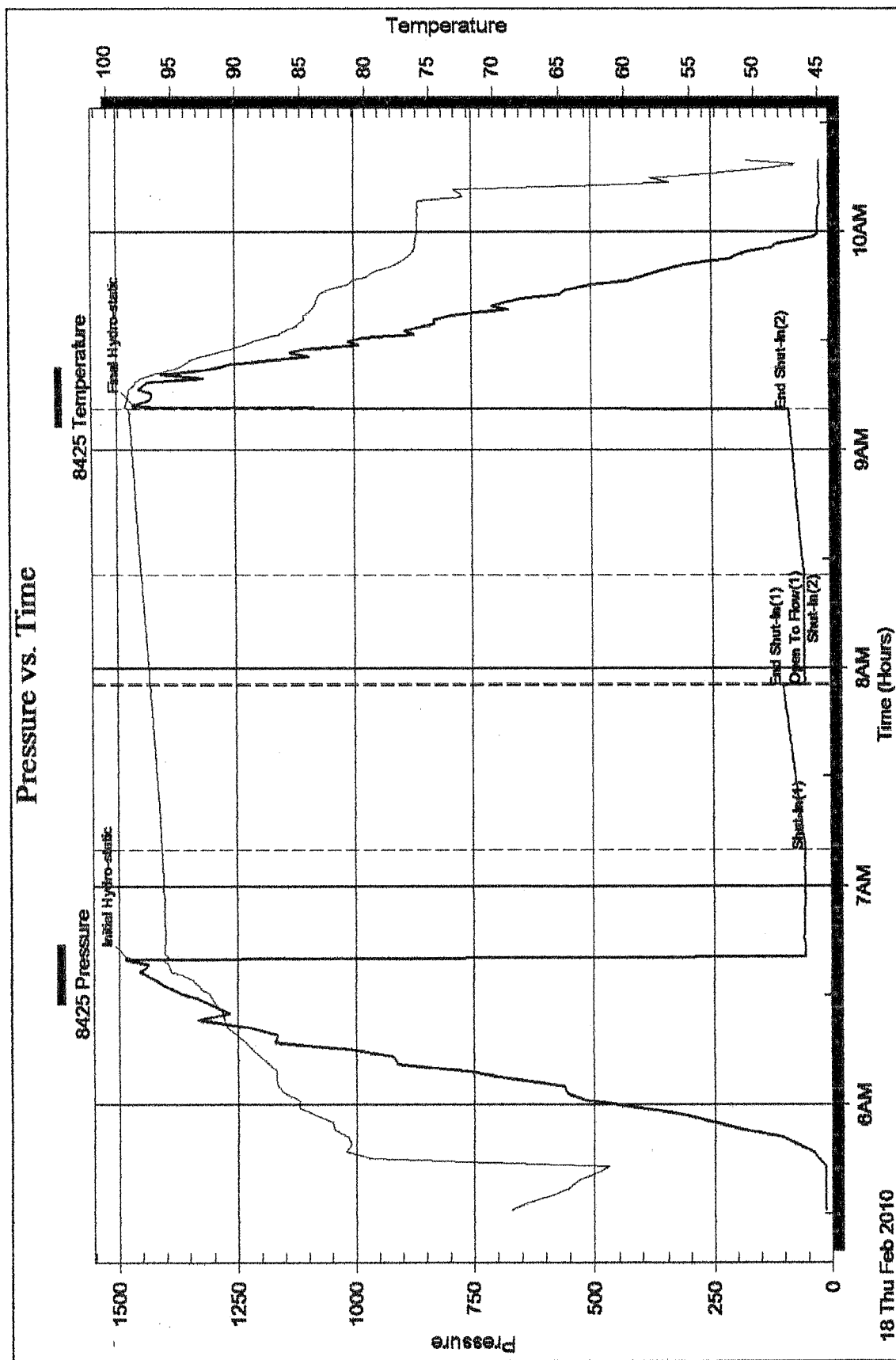
DST Test Number: 1

34-19s-11w Barton

Outside Carrie Exploration & Development

Serial #: 8425

Pressure vs. Time



Printed: 2010.02.22 @ 16:33:43

Ref. No: 16260

Superior Testers Enterprises LLC

DST Test Number: 1

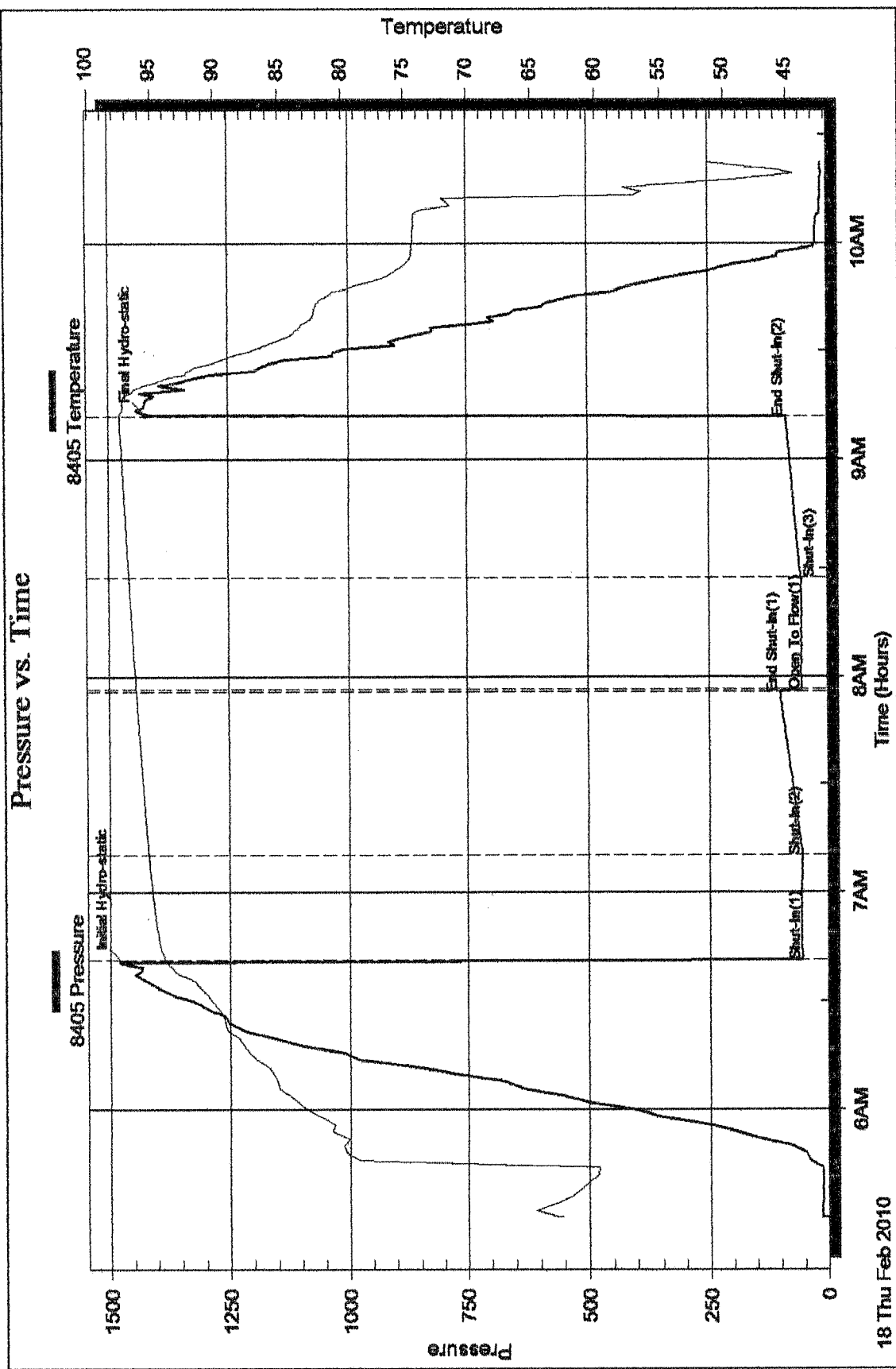
34-19s-11w Barton

Carrie Exploration & Development

Inside

Serial #: 8405

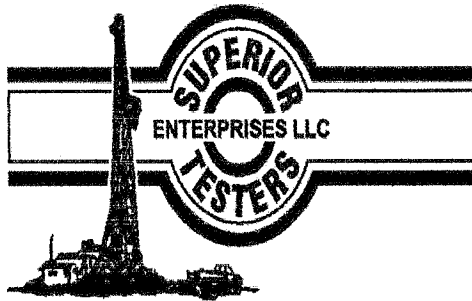
Pressure vs. Time



Printed: 2010.02.22 @ 16:33:43

Ref. No: 16260

Superior Testers Enterprises LLC



DRILL STEM TEST REPORT

Prepared For: **Carrie Exploration & Development**

210 West 22nd Street
Hays ,Kansas 67601

ATTN: Herb Deines

34-19s-11w Barton

Thomas Farms #C-1

Start Date: 2010.02.19 @ 06:00:00

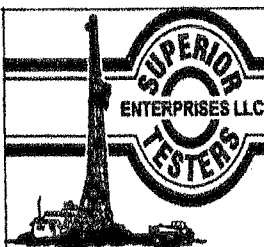
End Date: 2010.02.19 @ 00:00:00

Job Ticket #: 16261 DST #: 2

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

Printed: 2010.02.22 @ 16:33:30

Carrie Exploration & Development Thomas Farms #C-1 34-19s-11w Barton DST # 2 Kansas City "A-B" 2010.02.19



DRILL STEM TEST REPORT

Carrie Exploration & Development

Thomas Farms #C-1

210 West 22nd Street
Hays, Kansas 67601

34-19s-11w Barton

Job Ticket: 16261

DST#: 2

ATTN: Herb Deines

Test Start: 2010.02.19 @ 06:00:00

GENERAL INFORMATION:

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

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: 3335-30

Interval: 3048.00 ft (KB) To 3080.00 ft (KB) (TVD)

Total Depth: 3080.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 1782.00 ft (KB)

1772.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8425 Outside

Press@RunDepth: 905.07 psia @ 3077.00 ft (KB)

Start Date: 2010.02.19

End Date:

2010.02.19

Start Time: 06:01:00

End Time:

11:56:00

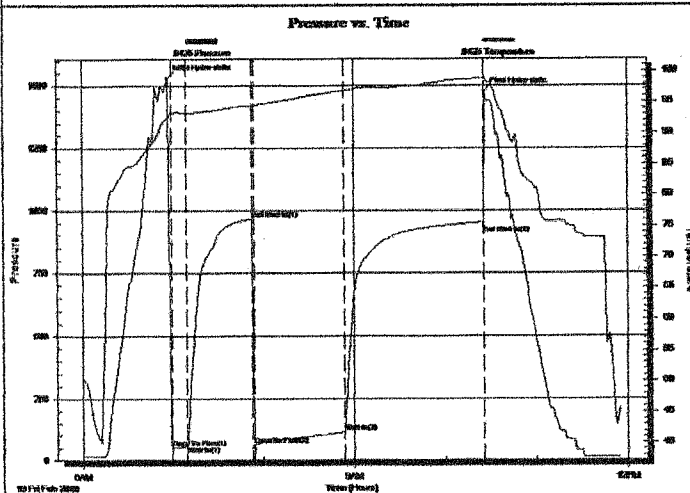
Capacity: 5000.00 psia

Last Calib.: 2010.02.19

Time On Btm: 2010.02.19 @ 06:57:00

Time Off Btm: 2010.02.19 @ 10:25:30

TEST COMMENT: 10 Minutes 1st Opening-Strong blow built to the bottom of a 5 gallon bucket in less than 1 minute
45 Minutes 1st Shut-In-no blow back
60 Minutes 2nd Opening-Strong blow with gas to surface in less than 1 minute
90 Minutes 2nd Shut-In -did blow back



PRESSURE SUMMARY

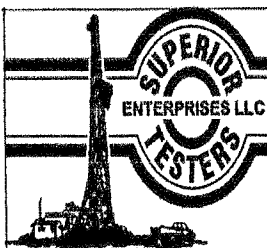
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1532.64	92.34	Initial Hydro-static
3	52.50	93.21	Open To Flow (1)
13	59.32	93.26	Shut-In (1)
56	967.59	94.34	End Shut-In (1)
57	64.84	94.32	Open To Flow (2)
117	116.14	96.75	Shut-In (2)
208	905.07	98.70	End Shut-In (2)
209	1474.63	99.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	Muddy Gassy OIL 10%G80%O10%M	2.81
	OCMW 25%G5%O20%M50%W	

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.38	6.00	21.98
Last Gas Rate	0.38	4.00	14.65
Max. Gas Rate	0.38	6.00	21.98



DRILL STEM TEST REPORT

Carrie Exploration & Development

Thomas Farms #C-1

210 West 22nd Street
Hays, Kansas 67601

34-19s-11w Barton

Job Ticket: 16261

DST#: 2

ATTN: Herb Deines

Test Start: 2010.02.19 @ 06:00:00

GENERAL INFORMATION:

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

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: 3335-30

Interval: **3048.00 ft (KB) To 3080.00 ft (KB) (TVD)**

Reference Elevations: 1782.00 ft (KB)

Total Depth: 3080.00 ft (KB) (TVD)

1772.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8405

Inside

Press@RunDepth: 952.61 psia @ 3076.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.02.19

End Date:

2010.02.19

Last Calib.: 2010.02.19

Start Time: 06:00:01

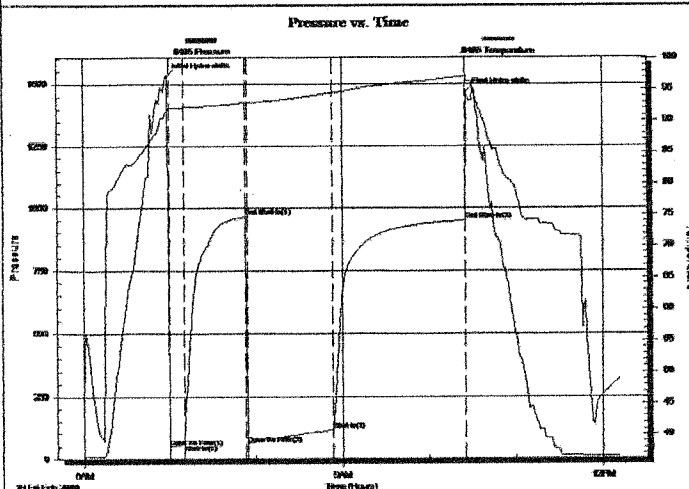
End Time:

12:12:16

Time On Btm: 2010.02.19 @ 06:58:31

Time Off Btm: 2010.02.19 @ 10:25:46

TEST COMMENT: 10 Minutes 1st Opening-Strong blow built to the bottom of a 5 gallon bucket in less than 1 minute
45 Minutes 1st Shut-In-no blow back
60 Minutes 2nd Opening-Strong blow with gas to surface in less than 1 minute
90 Minutes 2nd Shut-In -did blow back



PRESSURE SUMMARY

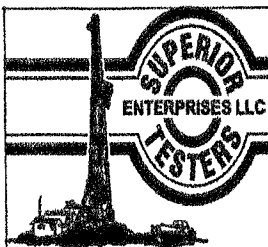
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1532.84	91.79	Initial Hydro-static
2	49.78	92.21	Open To Flow (1)
12	60.40	92.26	Shut-In(1)
55	966.24	92.96	End Shut-In(1)
56	59.19	92.96	Open To Flow (2)
116	117.58	94.52	Shut-In(2)
207	952.61	97.13	End Shut-In(2)
208	1468.70	96.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	Muddy GaSSY OIL 10%G80%O10%M	2.81
	OCMW 25%G5%O20%M50%W	

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.38	6.00	21.98
Last Gas Rate	0.38	4.00	14.65
Max. Gas Rate	0.38	6.00	21.98



DRILL STEM TEST REPORT

TOOL DIAGRAM

Carrie Exploration & Development

Thomas Farms #C-1

210 West 22nd Street
Hays, Kansas 67601

34-19s-11w Barton

Job Ticket: 16261

DST#: 2

ATTN: Herb Deines

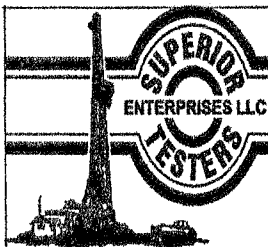
Test Start: 2010.02.19 @ 06:00:00

Tool Information

Drill Pipe:	Length: 3032.00 ft	Diameter: 3.80 inches	Volume: 42.53 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:	40000.00 lb
		Total Volume:	42.53 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	35000.00 lb
Depth to Top Packer:	3048.00 ft			Final	27000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	53.00 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			3028.00	
Shut-In Tool	5.00			3033.00	
Hydraulic Tool	5.00			3038.00	
Packer	5.00			3043.00	21.00 Bottom Of Top Packer
Packer	5.00			3048.00	
Perforations	27.00			3075.00	
Recorder	1.00	8405	Inside	3076.00	
Recorder	1.00	8425	Outside	3077.00	
Bullnose	3.00			3080.00	32.00 Bottom Packers & Anchor
Total Tool Length:	53.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Carrie Exploration & Development

Thomas Farms #C-1

210 West 22nd Street
Hays, Kansas 67601

34-19s-11w Barton

Job Ticket: 16261

DST#: 2

ATTN: Herb Delnes

Test Start: 2010.02.19 @ 06:00:00

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:

47000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 48.65 in³

Gas Cushion Type:

Resistivity: 5.70 ohm.m

Gas Cushion Pressure:

psia

Salinity: 2800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	Muddy GaSSY OIL 10%G80%O10%M	2.805
	OCMW 25%G5%O20%M50%W	

Total Length: 200.00 ft Total Volume: 2.805 bbl

Num Fluid Samples: 1

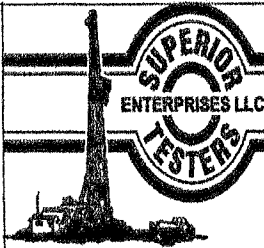
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gas sample was taken-CHLORIDES 47000 resistivity 5.7 @ 60 Degrees



DRILL STEM TEST REPORT

GAS RATES

Carrie Exploration & Development

Thomas Farms #C-1

210 West 22nd Street
Hays, Kansas 67601

34-19s-11w Barton

Job Ticket: 16261

DST#: 2

ATTN: Herb Deines

Test Start: 2010.02.19 @ 06:00:00

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	10	0.38	6.00	21.98
2	20	0.38	6.00	21.98
2	30	0.38	6.00	21.98
2	40	0.38	6.00	21.98
2	50	0.38	4.00	14.65
2	55	0.38	4.00	14.65

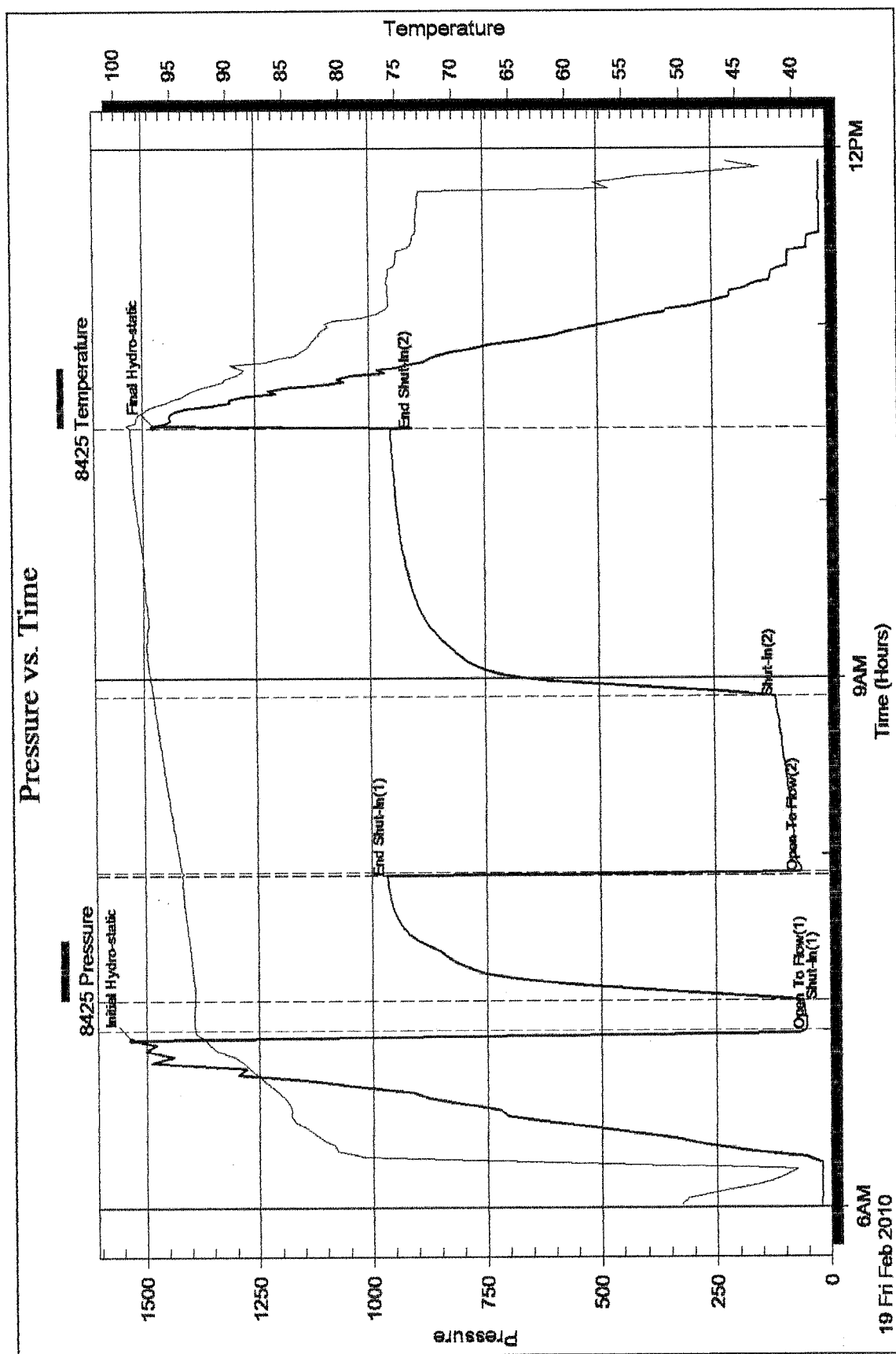
DST Test Number: 2

34-19s-11w Barton

Outside Carrie Exploration & Development

Serial #: 8425

Pressure vs. Time



Printed: 2010.02.22 @ 16:33:31

Ref. No: 16261

Superior Testers Enterprises LLC

DST Test Number: 2

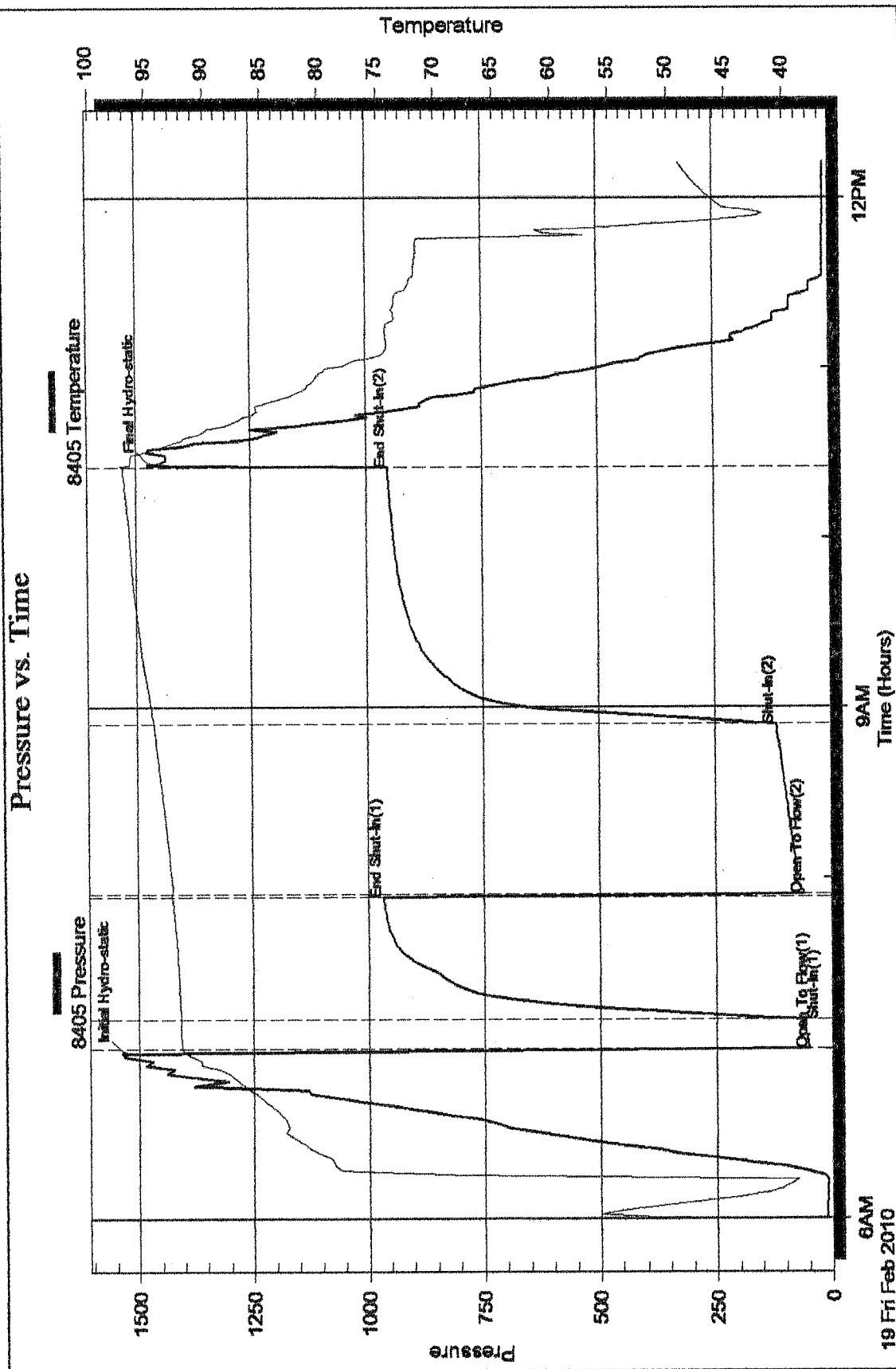
34-19s-11w Barton

Carrie Exploration & Development

Inside

Serial #: 8405

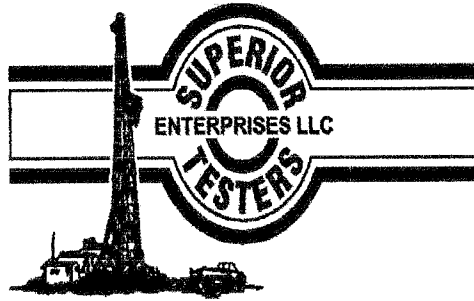
Pressure vs. Time



Printed: 2010.02.22 @ 16:33:31

Ref. No: 16261

Superior Testers Enterprises LLC



DRILL STEM TEST REPORT

Prepared For: **Carrie Exploration & Development**

210 West 22nd Street
Hays ,Kansas 67601

ATTN: Herb Deines

34-19s-11w Barton

Thomas Farms #C-1

Start Date: 2010.02.19 @ 06:00:00

End Date: 2010.02.19 @ 11:08:16

Job Ticket #: 16262 DST #: 3

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

Printed: 2010.02.22 @ 16:33:17

Carrie Exploration & Development

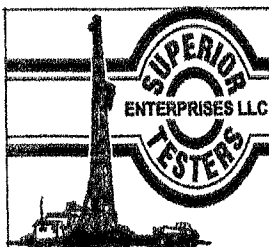
Thomas Farms #C-1

34-19s-11w Barton

DST # 3

Kansas City "C-D-E &

2010.02.19



DRILL STEM TEST REPORT

Carrie Exploration & Development

Thomas Farms #C-1

210 West 22nd Street
Hays, Kansas 67601

34-19s-11w Barton

Job Ticket: 16262

DST#: 3

ATTN: Herb Deines

Test Start: 2010.02.19 @ 06:00:00

GENERAL INFORMATION:

Formation: **Kansas City "C-D-E &**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:09:46

Time Test Ended: 11:08:16

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335-30

Interval: **3082.00 ft (KB) To 3120.00 ft (KB) (TVD)**

Total Depth: 3120.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 1782.00 ft (KB)

1772.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: **8425**

Inside

Press@RunDepth: 57.15 psia @ 3116.00 ft (KB)

Start Date: 2010.02.19

End Date:

2010.02.19

Start Time: 06:00:01

End Time:

11:08:16

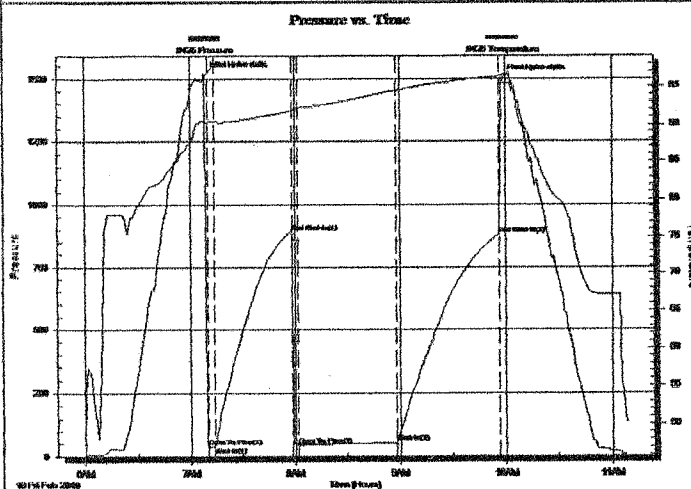
Capacity: 5000.00 psia

Last Calib.: 2010.02.20

Time On Btm: 2010.02.19 @ 07:08:16

Time Off Btm: 2010.02.19 @ 09:57:46

TEST COMMENT: 5 Minutes 1st Opening good blow built to the bottom of a 5 gallon bucket in 3 minutes
45 Minutes 1st Shut-in-No blow back
60 Minutes 2nd Opening-Strong blow built to the bottom of a 5 gallon bucket in less than 1 minute
60 Minutes 2nd Sht-in



PRESSURE SUMMARY

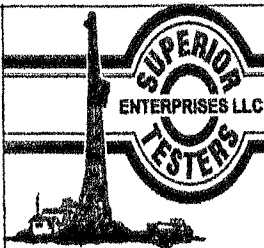
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1514.93	90.41	Initial Hydro-static
2	40.76	90.22	Open To Flow (1)
6	41.52	90.36	Shut-in(1)
51	890.83	91.57	End Shut-in(1)
54	45.92	91.90	Open To Flow (2)
110	57.15	94.48	Shut-in(2)
168	881.52	96.32	End Shut-in(2)
170	1498.35	96.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3000.00	Gas in the pipe	42.08
45.00	ocm 35%oil 65%mud	0.63

Gas Rates

	Choke (Inches)	Pressure (psia)	Gas Rate (Mcf/d)
--	----------------	-----------------	------------------



DRILL STEM TEST REPORT

Carrie Exploration & Development

Thomas Farms #C-1

210 West 22nd Street
Hays, Kansas 67601

34-19s-11w Barton

Job Ticket: 16262

DST#: 3

ATTN: Herb Deines

Test Start: 2010.02.19 @ 06:00:00

GENERAL INFORMATION:

Formation: **Kansas City "C-D-E &**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:09:46

Time Test Ended: 11:08:16

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335-30

Interval: **3082.00 ft (KB) To 3120.00 ft (KB) (TVD)**

Reference Elevations: 1782.00 ft (KB)

Total Depth: 3120.00 ft (KB) (TVD)

1772.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: **8405**

Outside

Press@RunDepth: 884.59 psia @ 3117.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.02.19

End Date:

2010.02.19

Last Calib.: 2010.02.20

Start Time: 06:01:00

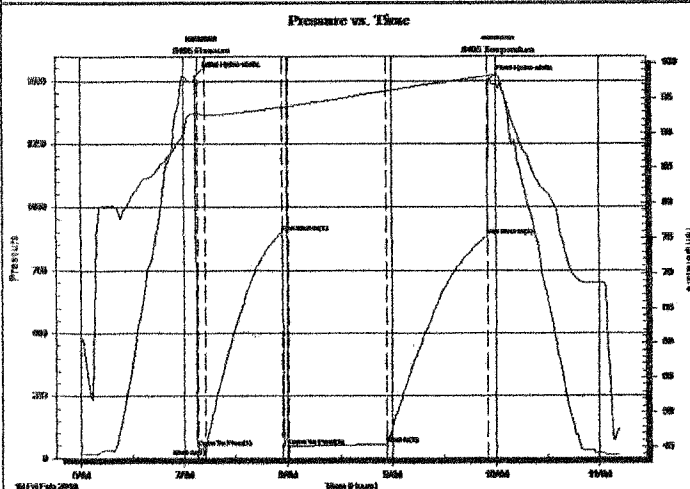
End Time:

11:11:30

Time On Btm: 2010.02.19 @ 07:07:00

Time Off Btm: 2010.02.19 @ 09:56:30

TEST COMMENT: 5 Minutes 1st Opening good blow built to the bottom of a 5 gallon bucket in 3 minutes
45 Minutes 1st Shut-In-No blow back
60 Minutes 2nd Opening-Strong blow built to the bottom of a 5 gallon bucket in less than 1 minute
60 Minutes 2nd Sht-in



PRESSURE SUMMARY

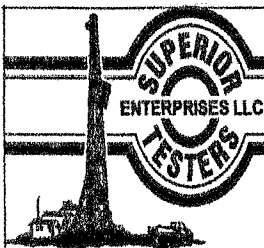
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1519.01	92.87	Initial Hydro-static
1	43.03	92.84	Open To Flow (1)
6	42.56	92.81	Shut-In(1)
50	899.75	93.76	End Shut-In(1)
54	46.72	93.80	Open To Flow (2)
110	56.25	96.00	Shut-In(2)
168	884.59	98.07	End Shut-In(2)
170	1505.05	98.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3000.00	Gas in the pipe	42.08
45.00	ocm 35%oil 65%mud	0.63

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Carrie Exploration & Development

Thomas Farms #C-1

210 West 22nd Street
Hays, Kansas 67601

34-19s-11w Barton

Job Ticket: 16262

DST#: 3

ATTN: Herb Deines

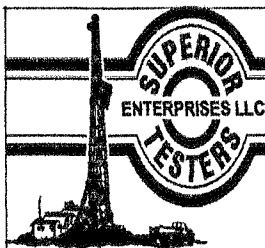
Test Start: 2010.02.19 @ 06:00:00

Tool Information

Drill Pipe:	Length: 3092.00 ft	Diameter: 3.80 inches	Volume: 43.37 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.76 inches	Volume: - 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: 40000.00 lb
		Total Volume:	- bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3082.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	59.00 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			3062.00	
Shut-In Tool	5.00			3067.00	
Hydraulic Tool	5.00			3072.00	
Packer	5.00			3077.00	21.00 Bottom Of Top Packer
Packer	5.00			3082.00	
Perforations	33.00			3115.00	
Recorder	1.00	8425	Inside	3116.00	
Recorder	1.00	8405	Outside	3117.00	
Bullnose	3.00			3120.00	38.00 Bottom Packers & Anchor
Total Tool Length:		59.00			



DRILL STEM TEST REPORT

FLUID SUMMARY

Carrie Exploration & Development

Thomas Farms #C-1

210 West 22nd Street
Hays, Kansas 67601

34-19s-11w Barton

Job Ticket: 16262

DST#: 3

ATTN: Herb Deines

Test Start: 2010.02.19 @ 06:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 2800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3000.00	Gas in the pipe	42.082
45.00	ocm 35%oil 65%mud	0.631

Total Length: 3045.00 ft

Total Volume: 42.713 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

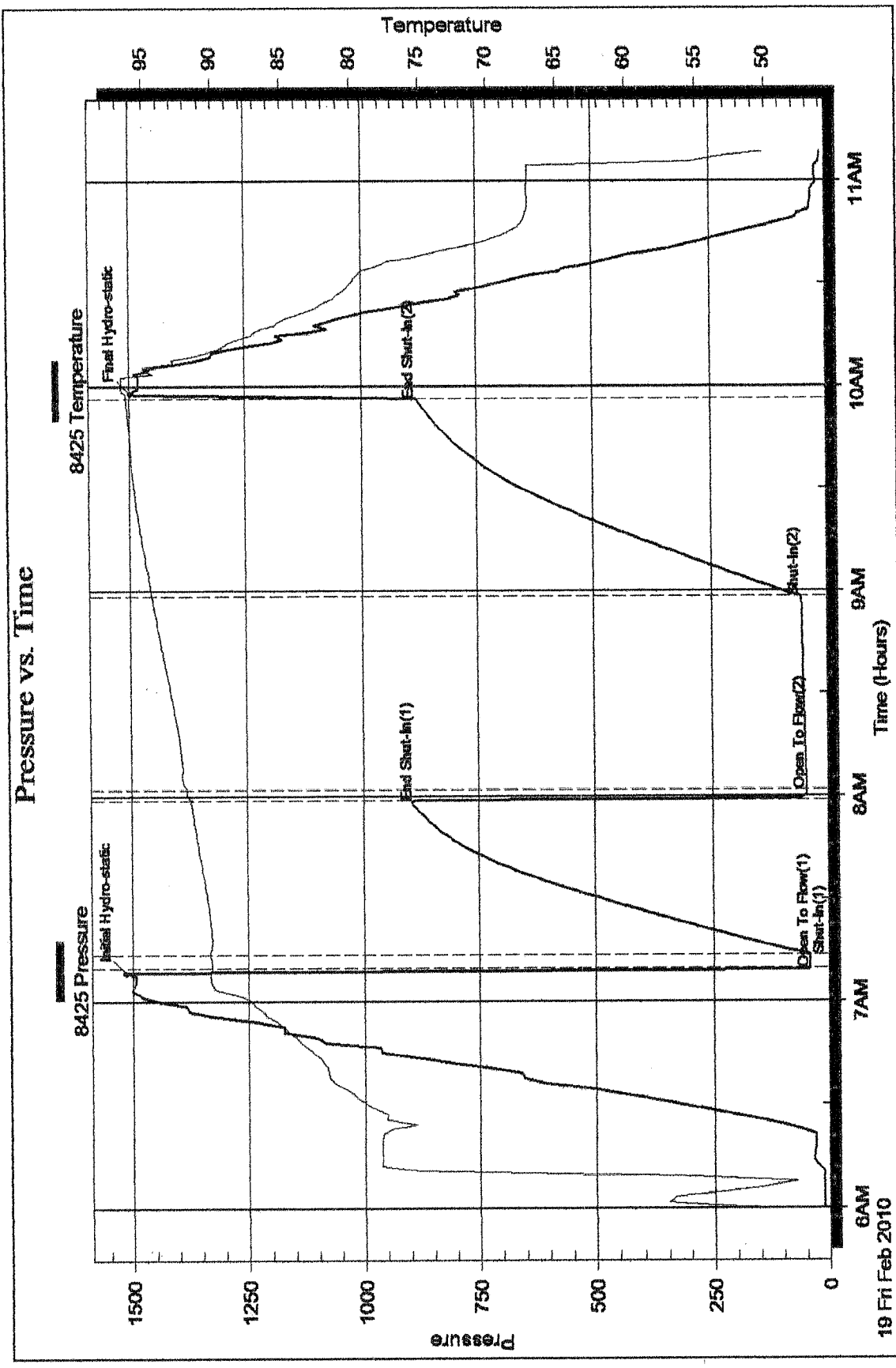
DST Test Number: 3

34-19s-11w Barton

Carrie Exploration & Development

Inside

Serial #: 8425



Printed: 2010.02.22 @ 16:33:18

Ref. No: 16262

Superior Testers Enterprises LLC

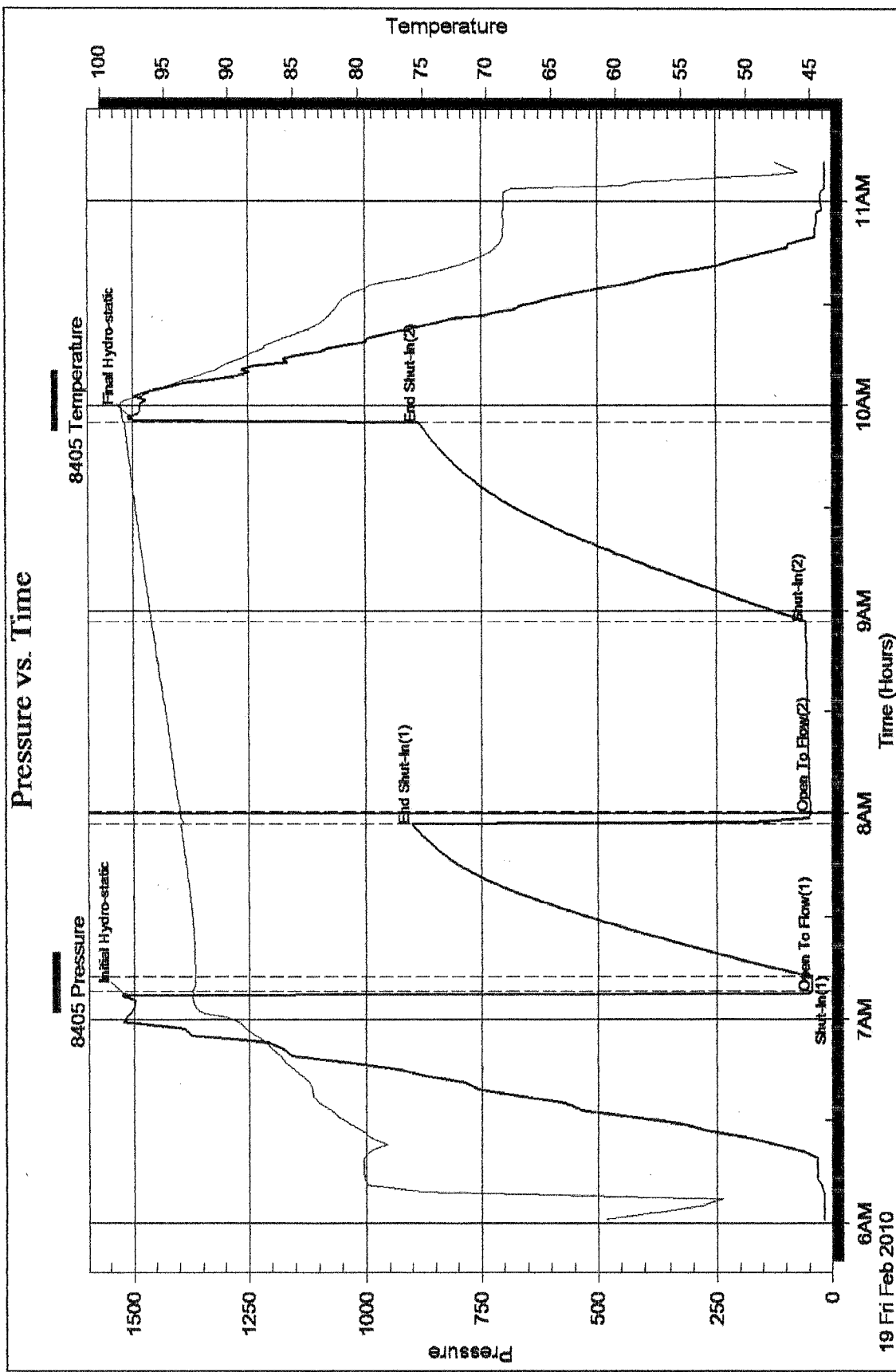
DST Test Number: 3

34-19s-11w Barton

Outside Carrie Exploration & Development

Serial #: 8405

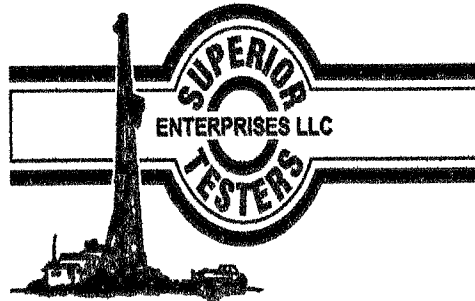
Pressure vs. Time



Printed: 2010.02.22 @ 16:33:18

Ref. No: 16262

Superior Testers Enterprises LLC



DRILL STEM TEST REPORT

Prepared For: **Carrie Exploration & Development**

210 West 22nd Street
Hays, Kansas 67601

ATTN: Herb Deines

34-19s-11w Barton

Thomas Farms #C-1

Start Date: 2010.02.20 @ 06:05:00

End Date: 2010.02.20 @ 00:00:00

Job Ticket #: 16263 DST #: 4

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

Printed: 2010.02.22 @ 16:33:01

Carrie Exploration & Development

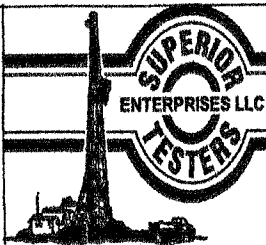
Thomas Farms #C-1

34-19s-11w Barton

DST # 4

Kansas City "G"

2010.02.20



DRILL STEM TEST REPORT

Carrie Exploration & Development

Thomas Farms #C-1

210 West 22nd Street
Hays, Kansas 67601

34-19s-11w Barton

Job Ticket: 16263

DST#: 4

ATTN: Herb Deines

Test Start: 2010.02.20 @ 06:05:00

GENERAL INFORMATION:

Formation: Kansas City "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 Bdlg

Unit No: 3335-30

Interval: 3122.00 ft (KB) To 3140.00 ft (KB) (TVD)

Total Depth: 3140.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 1782.00 ft (KB)

1772.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8405

Inside

Press@RunDepth: 706.47 psia @ 3136.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.02.20

End Date:

2010.02.20

Last Calib.: 2010.02.20

Start Time: 06:00:01

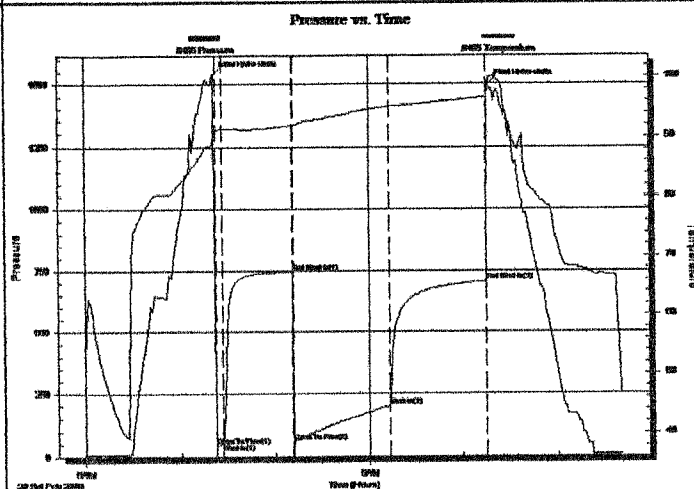
End Time:

11:40:16

Time On Btm: 2010.02.20 @ 07:21:16

Time Off Btm: 2010.02.20 @ 10:16:16

TEST COMMENT: 5 Minutes 1st Opening Good blow built to the bottom of a 5 gallon bucket in 2 minutes
45 Minutes 1st Shut-In-weak surface blow back
60 Minutes 2nd Opening-Good blow built to the bottom of a 5 gallon bucket in 2 minutes
60 Minutes 2nd Shut-In weak



PRESSURE SUMMARY

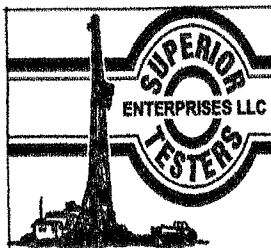
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1539.30	90.09	Initial Hydro-static
1	45.65	91.01	Open To Flow (1)
5	52.07	91.22	Shut-In (1)
51	746.47	91.91	End Shut-In (1)
51	61.69	92.00	Open To Flow (2)
113	201.94	95.03	Shut-In (2)
174	706.47	96.58	End Shut-In (2)
175	1500.18	99.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1450.00	Gas in the pipe	20.34
90.00	o&gcmw 25%g10%o35%m30%w	1.26
250.00	water chlorides 80000 res .80@58 degre	3.51

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

Carrie Exploration & Development

Thomas Farms #C-1

210 West 22nd Street
Hays, Kansas 67601

34-19s-11w Barton

Job Ticket: 16263

DST#: 4

ATTN: Herb Deines

Test Start: 2010.02.20 @ 06:05:00

GENERAL INFORMATION:

Formation: **Kansas City "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 Bdg

Unit No: 3335-30

Interval: **3122.00 ft (KB) To 3140.00 ft (KB) (TVD)**

Total Depth: 3140.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 1782.00 ft (KB)

1772.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: **8425**

Outside

Press@RunDepth: 709.10 psia @ 3137.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.02.20

End Date:

2010.02.20

Last Calib.: 2010.02.20

Start Time: 06:06:00

End Time:

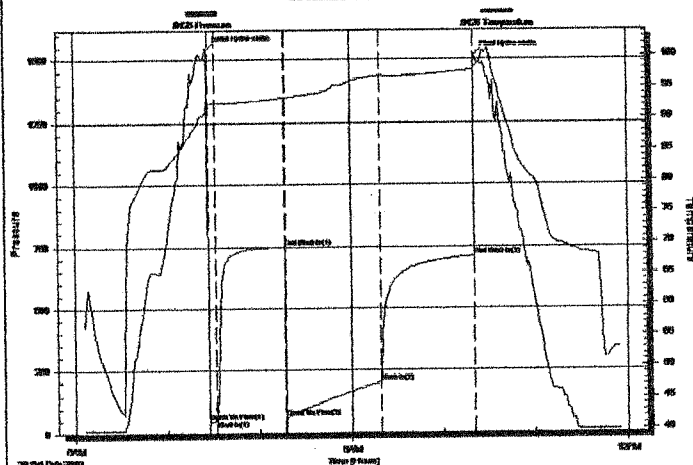
11:56:00

Time On Btm: 2010.02.20 @ 07:26:30

Time Off Btm: 2010.02.20 @ 10:21:00

TEST COMMENT: 5 Minutes 1st Opening Good blow built to the bottom of a 5 gallon bucket in 2 minutes
45 Minutes 1st Shut-in-weak surface blow back
60 Minutes 2nd Opening-Good blow built to the bottom of a 5 gallon bucket in 2 minutes
60 Minutes 2nd Shut-in weak

Pressure vs. Time



PRESSURE SUMMARY

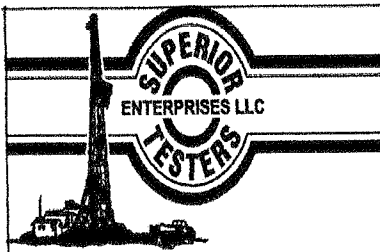
Time (Mn.)	Pressure (psia)	Temp (deg F)	Annotation
0	1544.65	92.26	Initial Hydro-static
1	47.37	92.33	Open To Flow (1)
5	52.28	92.47	Shut-In(1)
51	749.11	93.33	End Shut-In(1)
51	62.70	93.33	Open To Flow (2)
113	202.65	96.73	Shut-In(2)
174	709.10	97.74	End Shut-In(2)
175	1517.74	98.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1450.00	Gas in the pipe	20.34
90.00	o&gcmw 25%g10%o35%m30%w	1.26
250.00	water chlorides 80000 res .80@58 degre	3.51

Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcfd)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Carrie Exploration & Development

Thomas Farms #C-1

210 West 22nd Street
Hays, Kansas 67601

34-19s-11w Barton

Job Ticket: 16263

DST#: 4

ATTN: Herb Deines

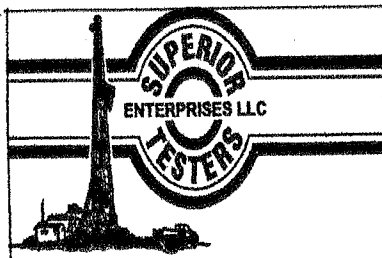
Test Start: 2010.02.20 @ 06:05:00

Tool Information

Drill Pipe:	Length: 3125.00 ft	Diameter: 3.80 inches	Volume: 43.84 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:	40000.00 lb
		Total Volume:	43.84 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: initial	35000.00 lb
Depth to Top Packer:	3122.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	18.00 ft				
Tool Length:	39.00 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			3102.00		
Shut-In Tool	5.00			3107.00		
Hydraulic Tool	5.00			3112.00		
Packer	5.00			3117.00	21.00	Bottom Of Top Packer
Packer	5.00			3122.00		
Perforations	13.00			3135.00		
Recorder	1.00	8405	Inside	3136.00		
Recorder	1.00	8425	Outside	3137.00		
Bullnose	3.00			3140.00	18.00	Bottom Packers & Anchor
Total Tool Length:	39.00					



DRILL STEM TEST REPORT

FLUID SUMMARY

Carrie Exploration & Development

Thomas Farms #C-1

210 West 22nd Street
Hays, Kansas 67601

34-19s-11w Barton

Job Ticket: 16263

DST#: 4

ATTN: Herb Deines

Test Start: 2010.02.20 @ 06:05:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 8.79 in³
Resistivity: 0.08 ohm.m
Salinity: 2800.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: deg API
Water Salinity: 80000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1450.00	Gas in the pipe	20.340
90.00	o&gcmw 25%g10%o35%m30%w	1.262
250.00	water chlorides 80000 res .80@58 degrees	3.507

Total Length: 1790.00 ft Total Volume: 25.109 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

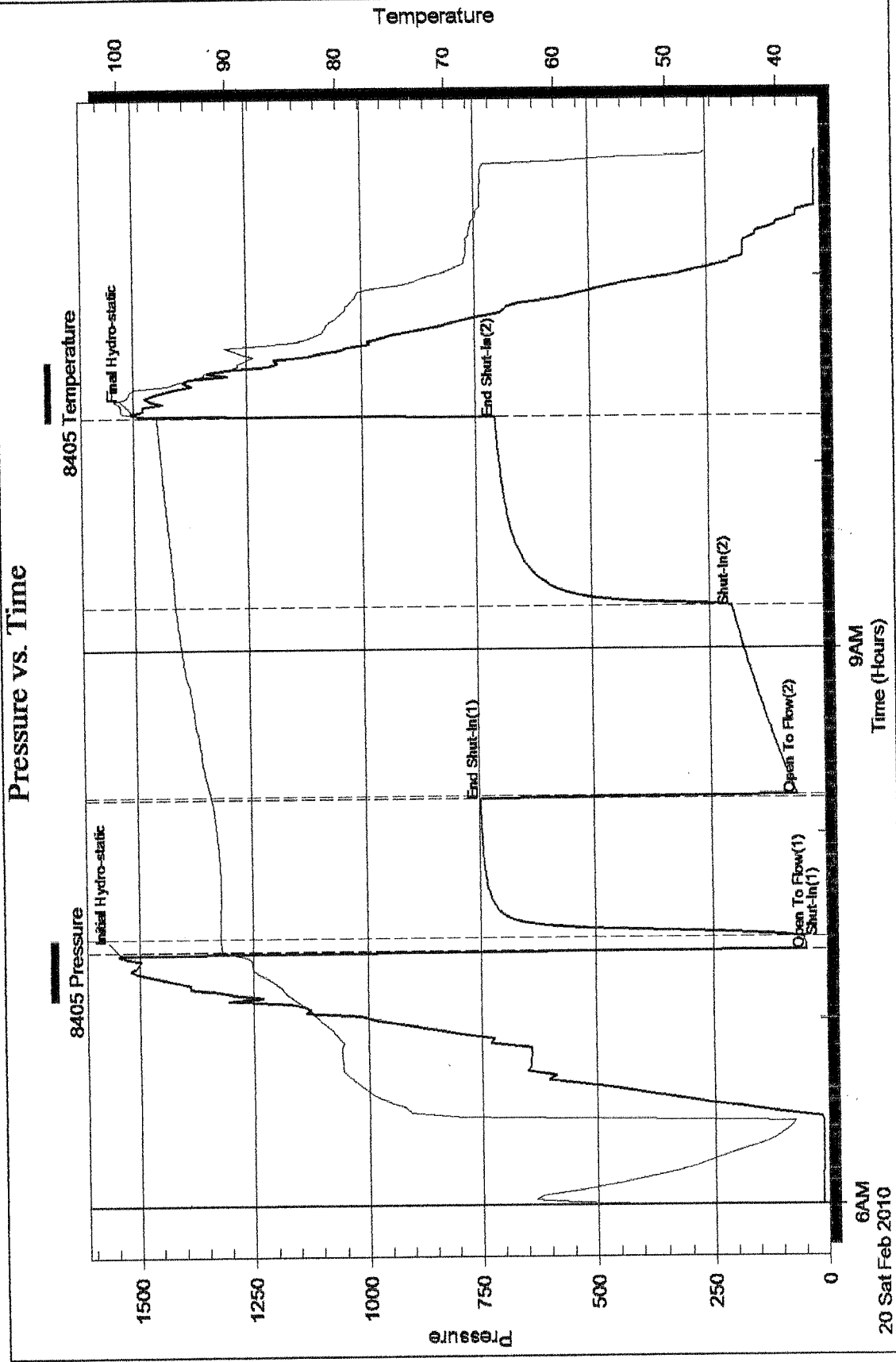
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Chlorides 80000 resistivity .08@58 dege

Pressure vs. Time



DST Test Number: 4

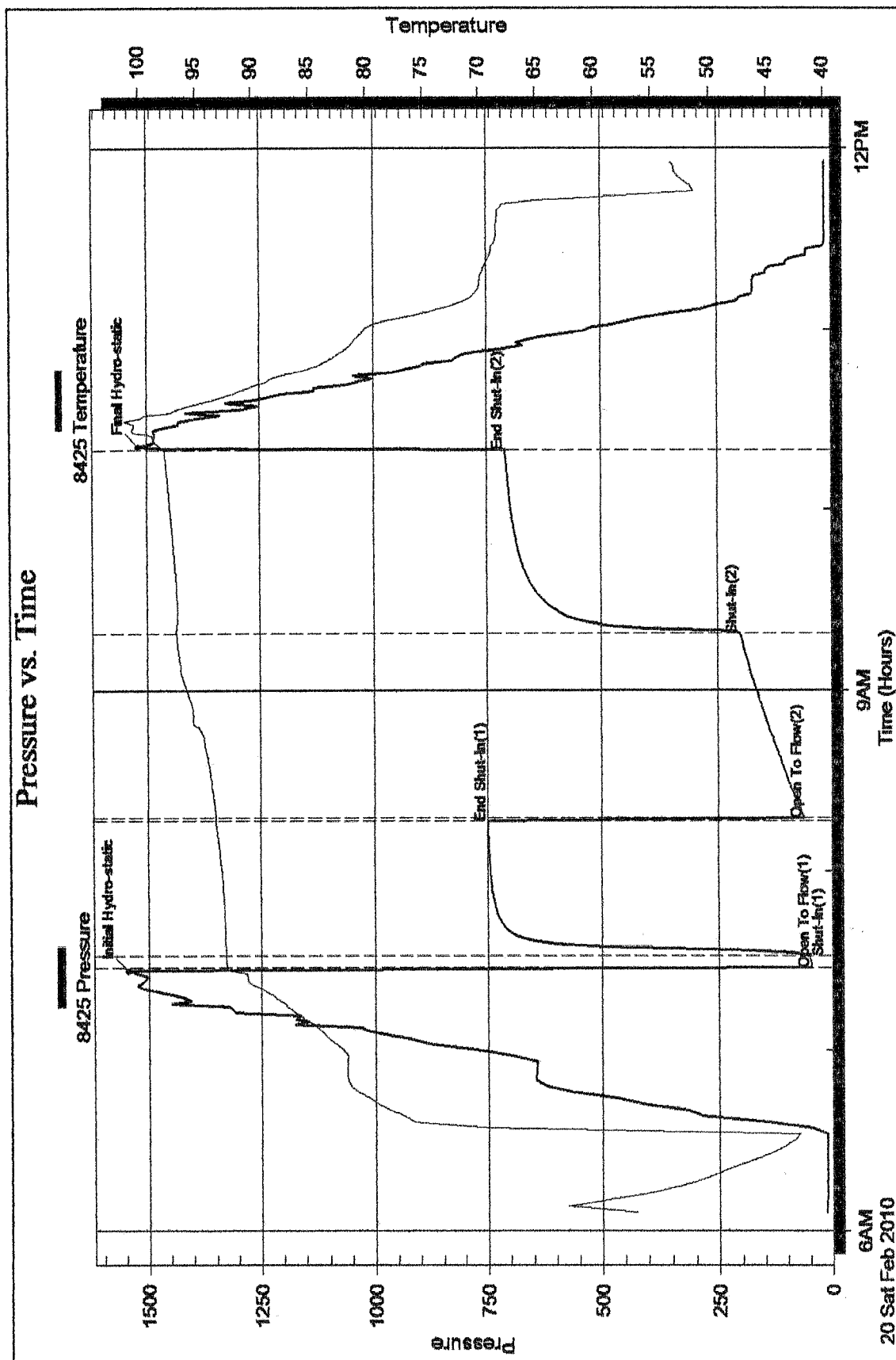
34-19s-11w Barton

Carrie Exploration & Development

Outside

Serial #: 8425

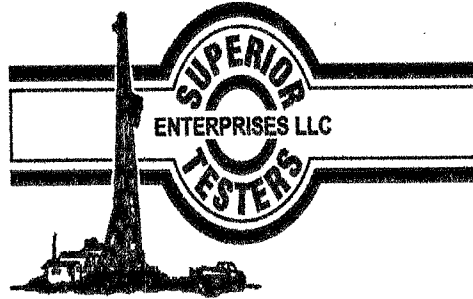
Pressure vs. Time



Printed: 2010.02.22 @ 16:33:02

Ref. No: 16263

Superior Testers Enterprises LLC



DRILL STEM TEST REPORT

Prepared For: **Carrie Exploration & Development**

210 West 22nd Street
Hays, Kansas 67601

ATTN: Herb Deines

34-19s-11w Barton

Thomas Farms #C-1

Start Date: 2010.02.21 @ 11:55:00

End Date: 2010.02.21 @ 00:00:00

Job Ticket #: 16264 DST #: 5

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

Printed: 2010.02.22 @ 16:32:27

Carrie Exploration & Development

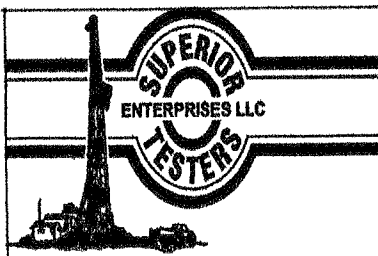
Thomas Farms #C-1

34-19s-11w Barton

DST # 5

Kan"J-K"

2010.02.21



DRILL STEM TEST REPORT

Carrie Exploration & Development

Thomas Farms #C-1

210 West 22nd Street
Hays, Kansas 67601

34-19s-11w Barton

Job Ticket: 16264

DST#: 5

ATTN: Herb Deines

Test Start: 2010.02.21 @ 11:55:00

GENERAL INFORMATION:

Formation: Kan"J-K"

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: 3335-30

Interval: 3216.00 ft (KB) To 3265.00 ft (KB) (TVD)

Total Depth: 3265.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 1782.00 ft (KB)

1772.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8405

Inside

Press@RunDepth: 67.14 psia @ 3260.78 ft (KB)

Start Date: 2010.02.20

End Date:

2010.02.20

Start Time: 11:55:01

End Time:

17:15:16

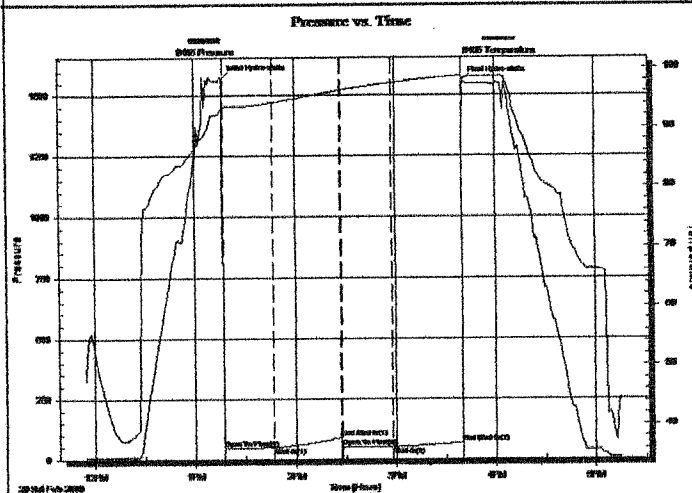
Capacity: 5000.00 psia

Last Calib.: 2010.02.21

Time On Btm: 2010.02.20 @ 13:16:15

Time Off Btm: 2010.02.20 @ 15:40:46

TEST COMMENT:



PRESSURE SUMMARY

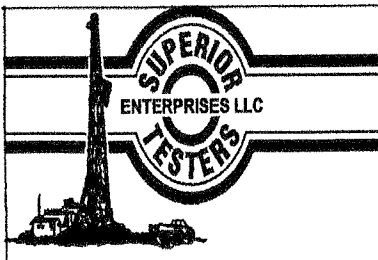
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1572.01	93.23	Initial Hydro-static
1	46.52	93.34	Open To Flow (1)
31	48.57	94.14	Shut-In(1)
72	89.03	96.21	End Shut-In(1)
72	49.47	96.23	Open To Flow (2)
102	50.35	97.45	Shut-In(2)
144	67.14	98.77	End Shut-In(2)
145	1560.70	98.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drilling md	0.07

Gas Rates

	Choke (Inches)	Pressure (psia)	Gas Rate (Mcf/d)
--	----------------	-----------------	------------------



DRILL STEM TEST REPORT

Carrie Exploration & Development

Thomas Farms #C-1

210 West 22nd Street
Hays, Kansas 67601

34-19s-11w Barton

Job Ticket: 16264

DST#: 5

ATTN: Herb Deines

Test Start: 2010.02.21 @ 11:55:00

GENERAL INFORMATION:

Formation: Kan"J-K"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Interval: 3216.00 ft (KB) To 3265.00 ft (KB) (TVD)

Total Depth: 3265.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335-30

Reference Elevations: 1782.00 ft (KB)

1772.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8425

Outside

Press@RunDepth: 67.56 psia @ 3261.78 ft (KB)

Start Date: 2010.02.20

End Date:

2010.02.20

Start Time: 11:56:00

End Time:

17:16:30

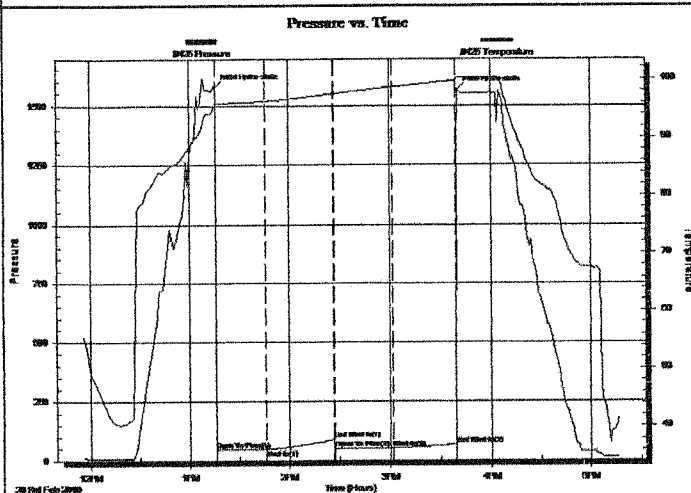
Capacity: 5000.00 psia

Last Calib.: 2010.02.21

Time On Btm: 2010.02.20 @ 13:15:30

Time Off Btm: 2010.02.20 @ 15:40:00

TEST COMMENT:



PRESSURE SUMMARY

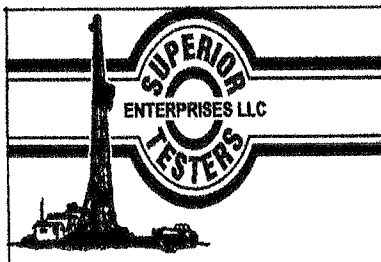
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1576.93	95.70	Initial Hydro-static
1	47.22	95.63	Open To Flow (1)
31	49.36	96.22	Shut-In(1)
71	89.43	97.43	End Shut-In(1)
72	50.52	97.45	Open To Flow (2)
106	52.76	98.56	Shut-In(2)
144	67.56	99.66	End Shut-In(2)
145	1565.51	100.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drilling md	0.07

Gas Rates

Choke (Inches)	Pressure (psia)	Gas Rate (Mcf/d)
----------------	-----------------	------------------



DRILL STEM TEST REPORT

TOOL DIAGRAM

Carrie Exploration & Development

Thomas Farms #C-1

210 West 22nd Street
Hays, Kansas 67601

34-19s-11w Barton

Job Ticket: 16264

DST#: 5

ATTN: Herb Deines

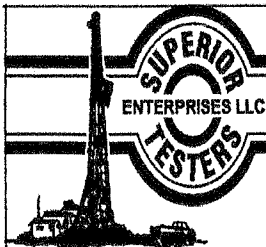
Test Start: 2010.02.21 @ 11:55:00

Tool Information

Drill Pipe:	Length: 3215.00 ft	Diameter: 3.80 inches	Volume: 45.10 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			Total Volume: 45.10 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	3216.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.78 ft			
Tool Length:	69.78 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			3196.00	
Shut-In Tool	5.00			3201.00	
Hydrolic Tool	5.00			3206.00	
Packer	5.00			3211.00	21.00 Bottom Of Top Packer
Packer	5.00			3216.00	
Anchor	5.00			3221.00	
Change Over Sub	0.75			3221.75	
Drill Pipe	30.28			3252.03	
Change Over Sub	0.75			3252.78	
Anchor	7.00			3259.78	
Recorder	1.00	8405	Inside	3260.78	
Recorder	1.00	8425	Outside	3261.78	
Bullnose	3.00			3264.78	48.78 Bottom Packers & Anchor

Total Tool Length: 69.78



DRILL STEM TEST REPORT

FLUID SUMMARY

Carrie Exploration & Development

Thomas Farms #C-1

210 West 22nd Street
Hays ,Kansas 67601

34-19s-11w Barton

Job Ticket: 16264

DST#: 5

ATTN: Herb Deines

Test Start: 2010.02.21 @ 11:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 2800.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psia

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drilling md	0.070

Total Length: 5.00 ft

Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 5

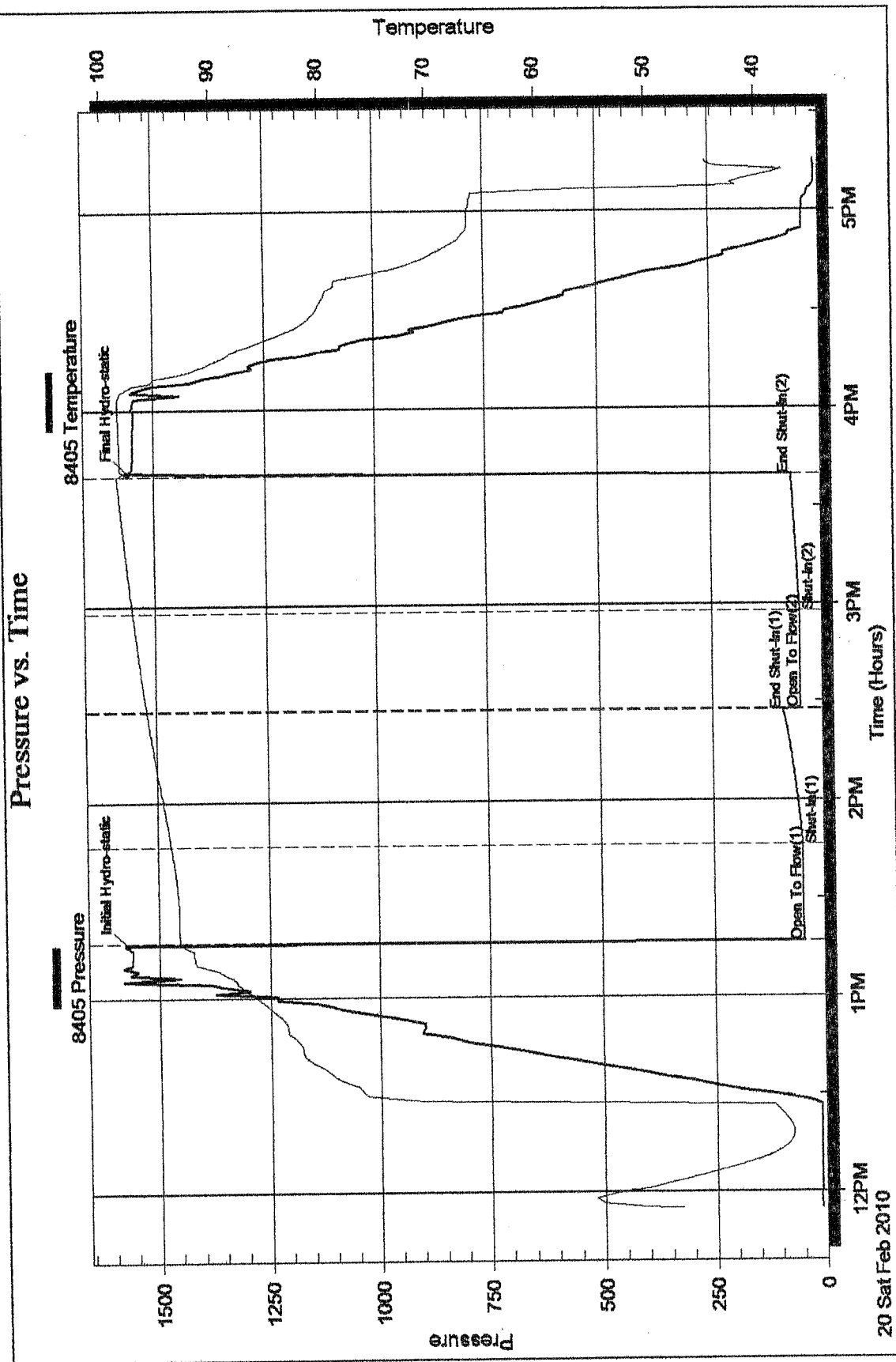
34-19s-11w Barton

Carrie Exploration & Development

Inside

Serial #: 8405

Pressure vs. Time



Printed: 2010.02.22 @ 16:32:28

Ref. No: 16264

Superior Testers Enterprises LLC

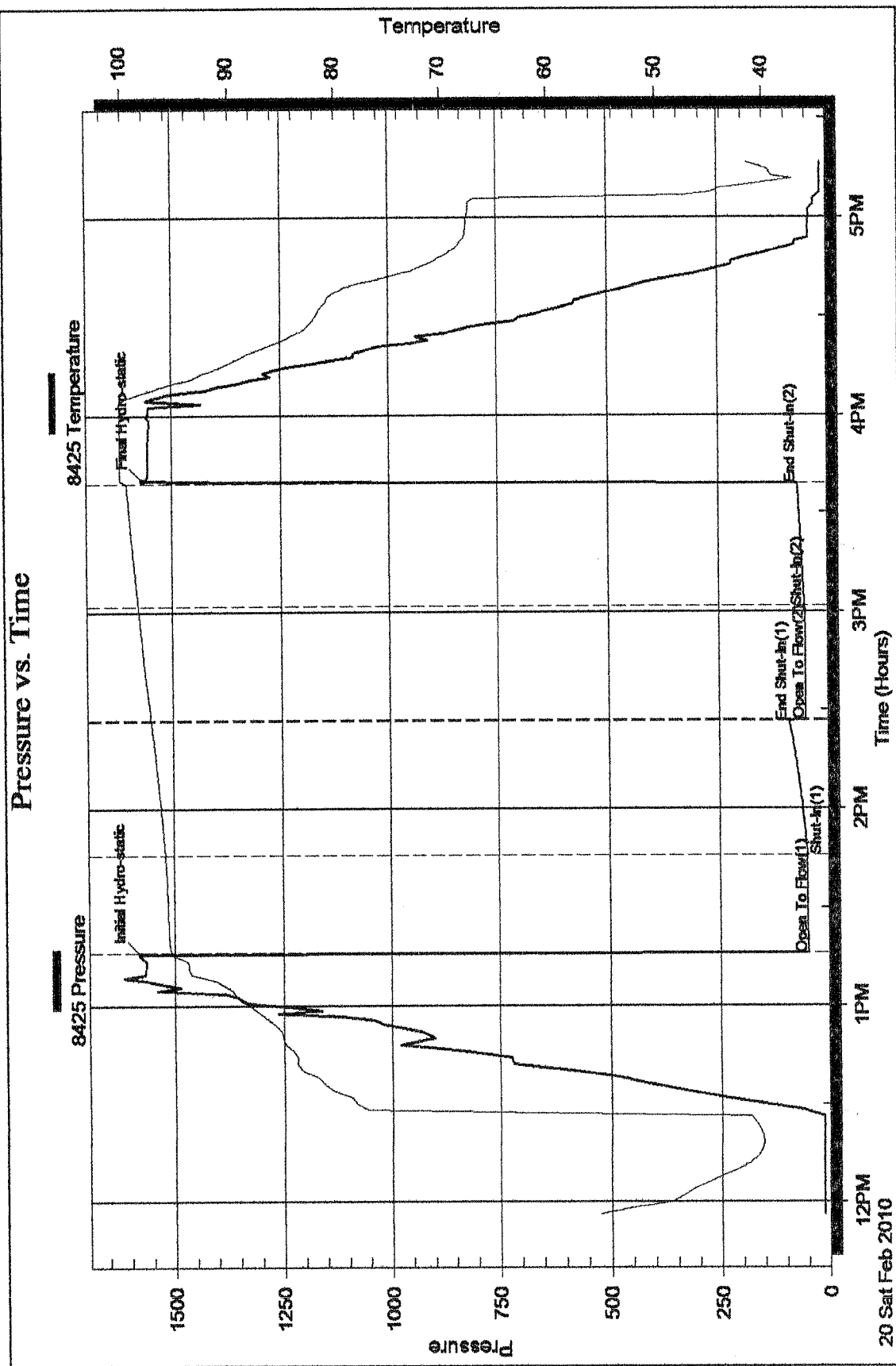
DST Test Number: 5

34-19s-11w Barton

Outside Carrie Exploration & Development

Serial #: 8425

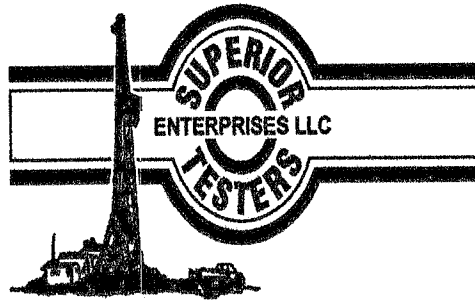
Pressure vs. Time



Printed: 2010.02.22 @ 16:32:28

Ref. No: 16264

Superior Testers Enterprises LLC



DRILL STEM TEST REPORT

Prepared For: **Carrie Exploration & Development**

210 West 22nd Street
Hays ,Kansas 67601

ATTN: Herb Deines

34-19s-11w Barton

Thomas Farms #C-1

Start Date: 2010.02.21 @ 02:30:00

End Date: 2010.02.21 @ 00:00:00

Job Ticket #: 16265 DST #: 6

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

Printed: 2010.02.22 @ 16:32:14

Carrie Exploration & Development

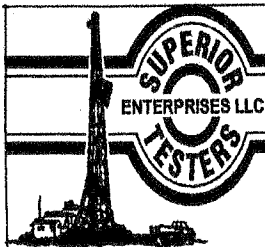
Thomas Farms #C-1

34-19s-11w Barton

DST # 6

Arbuckle

2010.02.21



DRILL STEM TEST REPORT

Carrie Exploration & Development

Thomas Farms #C-1

210 West 22nd Street
Hays, Kansas 67601

34-19s-11w Barton

Job Ticket: 16265

DST#: 6

ATTN: Herb Deines

Test Start: 2010.02.21 @ 02:30:00

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: 3335-30

Interval: **3292.00 ft (KB) To 3334.00 ft (KB) (TVD)**

Total Depth: 3334.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 1782.00 ft (KB)

1772.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8425

Outside

Press@RunDepth: 108.47 psia @ 3331.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.02.21

End Date:

2010.02.21

Last Calib.: 2010.02.21

Start Time: 02:31:00

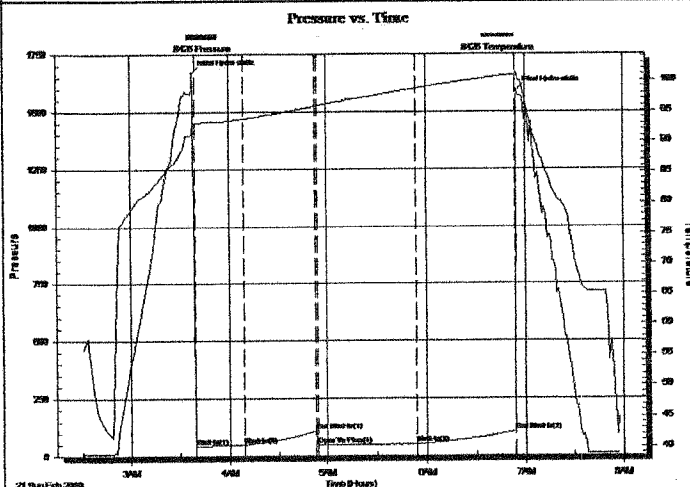
End Time:

07:58:00

Time On Btm: 2010.02.21 @ 03:38:00

Time Off Btm: 2010.02.21 @ 06:55:00

TEST COMMENT: 30 Minutes 1st Opening -Weak steady 1 inch blow
45 Minutes 1st Shut-In no blow back
60 Minutes 2nd Opening weak building blow built to 7 inches in to the water
60 Minutes 2nd Shi-In-no blow back



PRESSURE SUMMARY

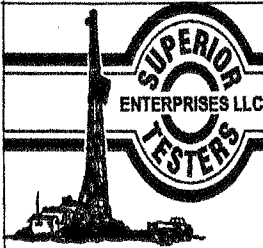
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1670.12	91.72	Initial Hydro-static
2	44.74	93.06	Shut-In(1)
32	47.62	93.72	Shut-In(2)
75	109.92	95.79	End Shut-In(1)
76	48.84	95.85	Open To Flow (1)
136	51.52	98.71	Shut-In(3)
196	108.47	100.97	End Shut-In(2)
197	1591.05	101.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Gas in the pipe	1.26
20.00	Oil ct mud 10%o 7%w 83%m	0.28

Gas Rates

	Choke (Inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Carrie Exploration & Development

Thomas Farms #C-1

210 West 22nd Street
Hays, Kansas 67601

34-19s-11w Barton

Job Ticket: 16265

DST#: 6

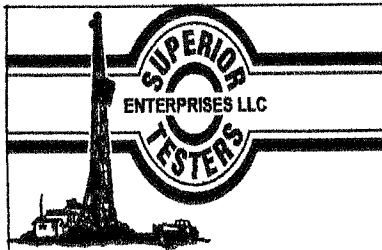
ATTN: Herb Deines

Test Start: 2010.02.21 @ 02:30:00

Tool Information

Drill Pipe:	Length:	3281.00 ft	Diameter:	3.80 inches	Volume:	46.02 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:	0.00 ft	Diameter:	2.76 inches	Volume:	0.00 bbl	Weight to Pull Loose:	50000.00 lb		
						Total Volume:	46.02 bbl	Tool Chased	0.00 ft	
Drill Pipe Above KB:	10.00 ft								String Weight: Initial	38000.00 lb
Depth to Top Packer:	3292.00 ft								Final	38000.00 lb
Depth to Bottom Packer:	ft									
Interval between Packers:	42.00 ft									
Tool Length:	63.00 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			3272.00		
Shut-In Tool	5.00			3277.00		
Hydrolic Tool	5.00			3282.00		
Packer	5.00			3287.00	21.00	Bottom Of Top Packer
Packer	5.00			3292.00		
Perforations	37.00			3329.00		
Recorder	1.00	8405	Inside	3330.00		
Recorder	1.00	8425	Outside	3331.00		
Bullnose	3.00			3334.00	42.00	Bottom Packers & Anchor
Total Tool Length:	63.00					



DRILL STEM TEST REPORT

FLUID SUMMARY

Carrie Exploration & Development

Thomas Farms #C-1

210 West 22nd Street
Hays, Kansas 67601

34-19s-11w Barton

Job Ticket: 16265

DST#: 6

ATTN: Herb Deines

Test Start: 2010.02.21 @ 02:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: ppm

Filter Cake: 2800.00 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
90.00	Gas in the pipe	1.262
20.00	Oil ct mud 10%o 7%w 83%m	0.281

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:

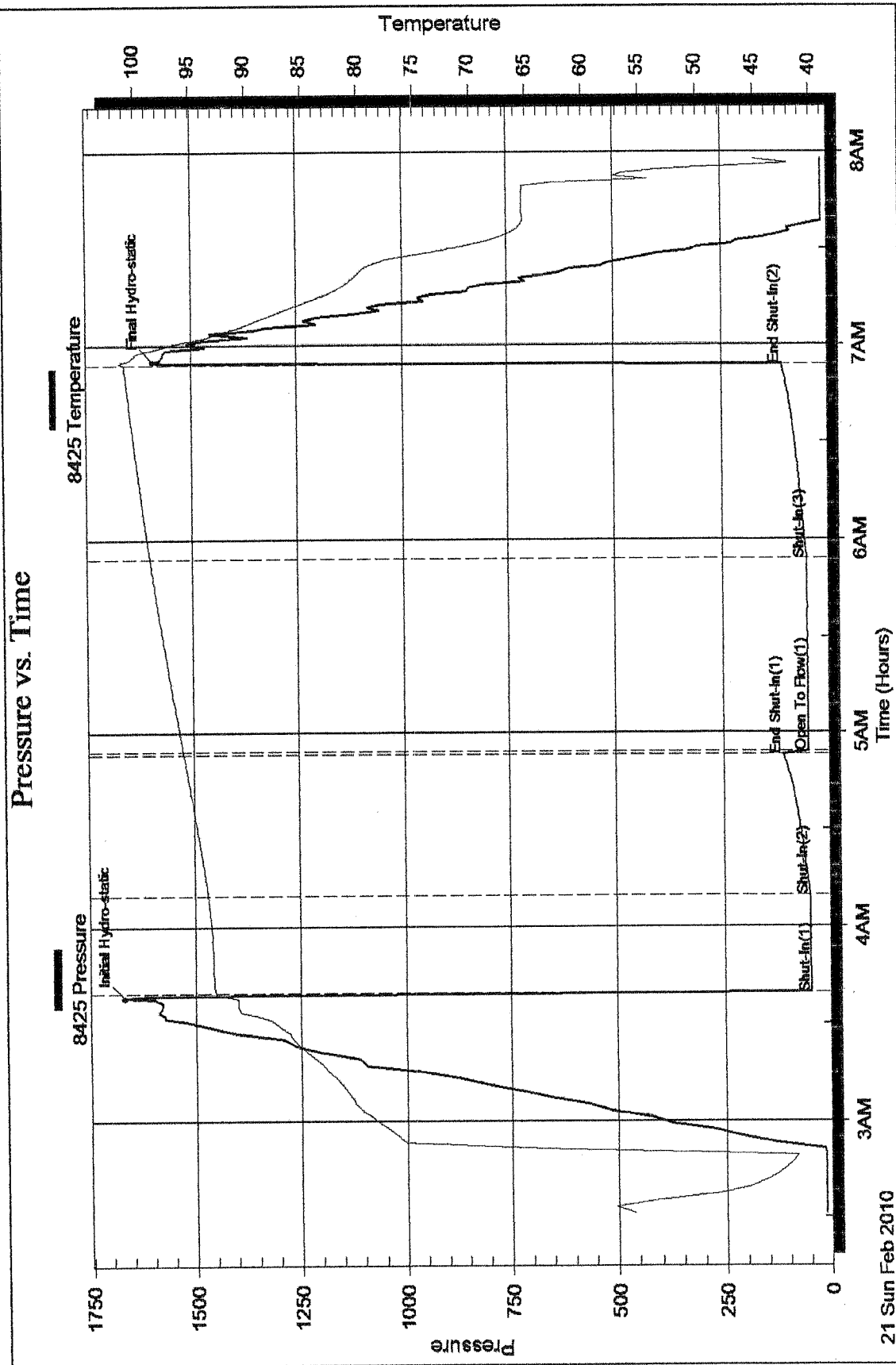
DST Test Number: 6

34-19s-11w Barton

Outside Carrie Exploration & Development

Serial #: 8425

Pressure vs. Time



Printed: 2010.02.22 @ 16:32:14

Ref. No: 16265

Superior Testers Enterprises LLC