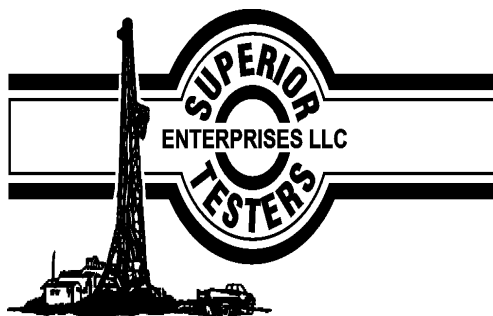




DRILL STEM TEST REPORT

Prepared For: **Edison Operating Company L.L.C**

8100 E 22nd st N Bldg 1900 Wichita KS
67226

ATTN: Adam Myshwager

Waite #1A-21

21-24s-13w Stafford

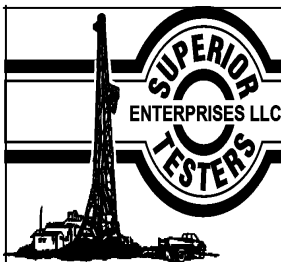
Start Date: 2013.08.06 @ 01:48:00

End Date: 2013.08.06 @ 09:29:00

Job Ticket #: 17019 DST #: 1

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

Printed: 2013.08.06 @ 09:43:19



DRILL STEM TEST REPORT

Edison Operating Company L.L.C
8100 E 22nd st N Bldg 1900 Wichita KS 67226
ATTN: Adam Myshwager

21-24s-13w Stafford
Waite #1A-21
Job Ticket: 17019 **DST#: 1**
Test Start: 2013.08.06 @ 01:48:00

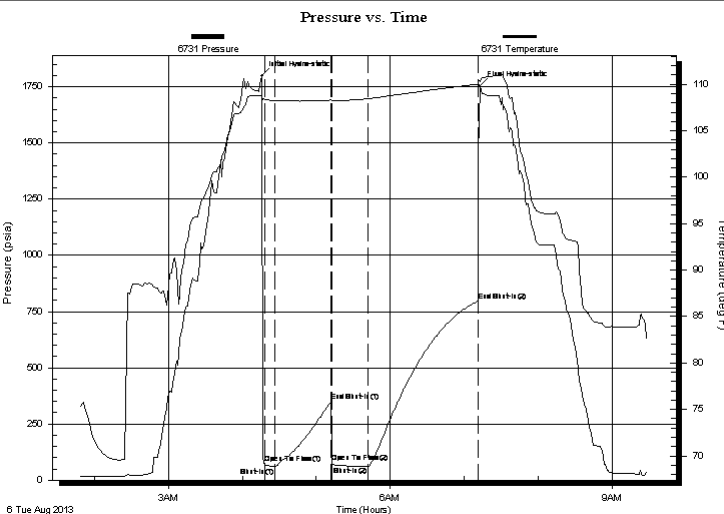
GENERAL INFORMATION:

Formation: **LKC 'H'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:18:00
Time Test Ended: 09:29:00
Test Type: Conventional Bottom Hole (Initial)
Tester: Jared Scheck
Unit No: 3320-Great Bend- 65
Interval: **3668.00 ft (KB) To 3696.00 ft (KB) (TVD)**
Reference Elevations: 1928.00 ft (KB)
Total Depth: 3696.00 ft (KB) (TVD)
1923.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair
KB to GR/CF: 5.00 ft

Serial #: 6731

Press@RunDepth: 61.51 psia @ ft (KB) Capacity: 5000.00 psia
Start Date: 2013.08.06 End Date: 2013.08.06 Last Calib.: 2013.08.06
Start Time: 01:48:00 End Time: 09:29:00 Time On Btm: 2013.08.06 @ 04:16:00
Time Off Btm: 2013.08.06 @ 07:12:30

TEST COMMENT: 1st Opening 10 Minutes-Fair blow built 8 1/2 inches into water in 10 minutes
1st Shut-in 45 Minutes-Very weak blow back
2nd Opening 30 Minutes-Strong blow built bottom of bucket less then 1 minute
2nd Shut-in 90 Minutes-Very weak surface blow



PRESSURE SUMMARY

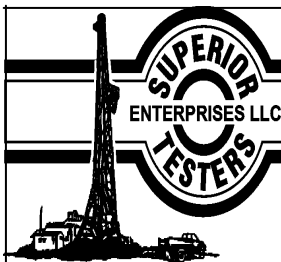
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1798.95	108.73	Initial Hydro-static
2	73.59	108.39	Open To Flow (1)
11	59.07	108.24	Shut-In (1)
56	350.04	108.30	End Shut-In (1)
57	79.22	108.23	Open To Flow (2)
86	61.51	108.46	Shut-In (2)
175	796.27	110.02	End Shut-In (2)
177	1753.26	110.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud	0.15

Gas Rates

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

Edison Operating Company L.L.C
8100 E 22nd st N Bldg 1900 Wichita KS 67226
ATTN: Adam Myshwager

21-24s-13w Stafford
Waite #1A-21
Job Ticket: 17019 **DST#: 1**
Test Start: 2013.08.06 @ 01:48:00

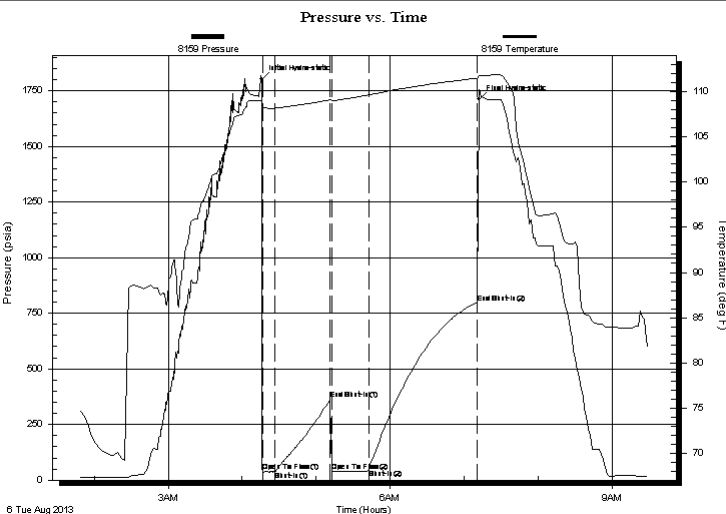
GENERAL INFORMATION:

Formation: **LKC 'H'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:18:00
Time Test Ended: 09:29:00
Test Type: Conventional Bottom Hole (Initial)
Tester: Jared Scheck
Unit No: 3320-Great Bend- 65
Interval: **3668.00 ft (KB) To 3696.00 ft (KB) (TVD)**
Reference Elevations: 1928.00 ft (KB)
Total Depth: 3696.00 ft (KB) (TVD)
1923.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair
KB to GR/CF: 5.00 ft

Serial #: 8159

Press@RunDepth: 797.92 psia @ ft (KB) Capacity: 5000.00 psia
Start Date: 2013.08.06 End Date: 2013.08.06 Last Calib.: 2013.08.06
Start Time: 01:48:00 End Time: 09:29:00 Time On Btm: 2013.08.06 @ 04:15:50
Time Off Btm: 2013.08.06 @ 07:12:00

TEST COMMENT: 1st Opening 10 Minutes-Fair blow built 8 1/2 inches into water in 10 minutes
1st Shut-in 45 Minutes-Very weak blow back
2nd Opening 30 Minutes-Strong blow built bottom of bucket less then 1 minute
2nd Shut-in 90 Minutes-Very weak surface blow



PRESSURE SUMMARY

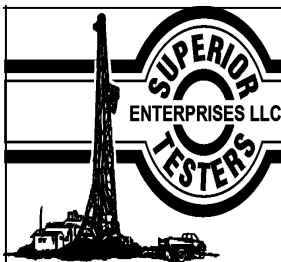
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1801.71	108.94	Initial Hydro-static
1	37.92	108.39	Open To Flow (1)
11	38.15	108.18	Shut-In(1)
56	361.62	109.07	End Shut-In(1)
58	39.66	108.98	Open To Flow (2)
87	46.69	109.61	Shut-In(2)
175	797.92	111.46	End Shut-In(2)
177	1711.93	111.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud	0.15

Gas Rates

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

TOOL DIAGRAM

Edison Operating Company L.L.C

21-24s-13w Stafford

8100 E 22nd st N Bldg 1900 Wichita KS 67226

Waite #1A-21

Job Ticket: 17019

DST#: 1

ATTN: Adam Myshwager

Test Start: 2013.08.06 @ 01:48:00

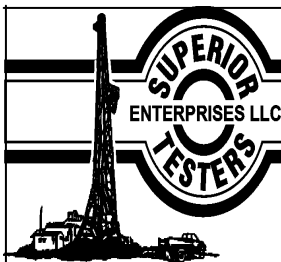
Tool Information

Drill Pipe:	Length:	3417.00 ft	Diameter:	3.80 inches	Volume:	47.93 bbl	Tool Weight:	1000.00 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:	240.00 ft	Diameter:	2.25 inches	Volume:	1.18 bbl	Weight to Pull Loose:	50000.00 lb
					Total Volume:	49.11 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft							
Depth to Top Packer:	3668.00 ft							
Depth to Bottom Packer:	ft							
Interval between Packers:	28.00 ft							
Tool Length:	48.00 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			3653.00	
Hydraulic Tool	5.00			3658.00	
Packer	5.00			3663.00	20.00 Bottom Of Top Packer
Packer	5.00			3668.00	
Anchor	23.00			3691.00	
Recorder	1.00	6731	Inside	3692.00	
Recorder	1.00	8159	Outside	3693.00	
Bullnose	3.00			3696.00	28.00 Bottom Packers & Anchor

Total Tool Length: 48.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Edison Operating Company L.L.C
8100 E 22nd st N Bldg 1900 Wichita KS 67226
ATTN: Adam Myshwager

21-24s-13w Stafford
Waite #1A-21
Job Ticket: 17019 **DST#: 1**
Test Start: 2013.08.06 @ 01:48:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 43.00 sec/qt
Water Loss: 9.80 in³
Resistivity: ohm.m
Salinity: 5500.00 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: ppm

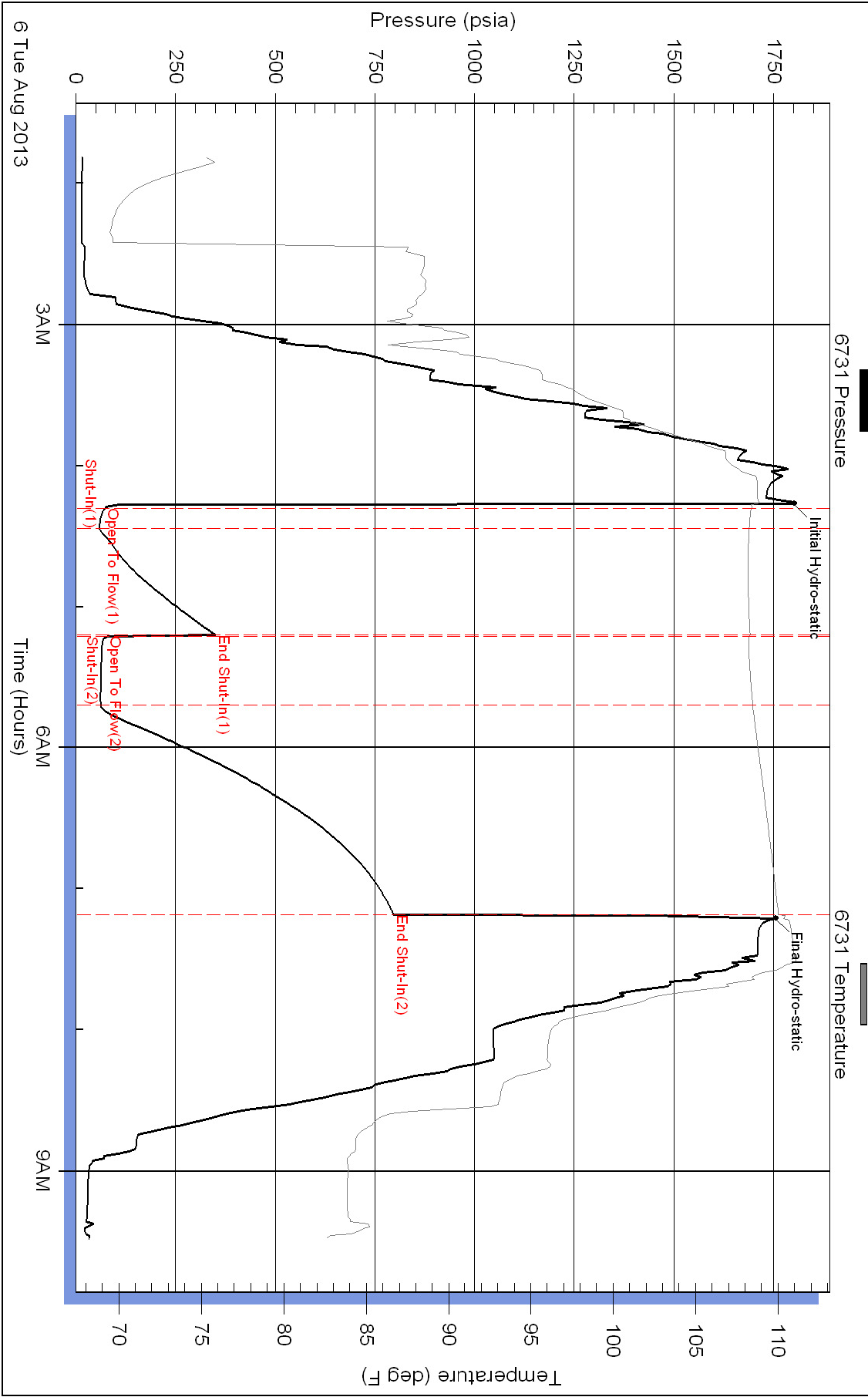
Recovery Information

Recovery Table

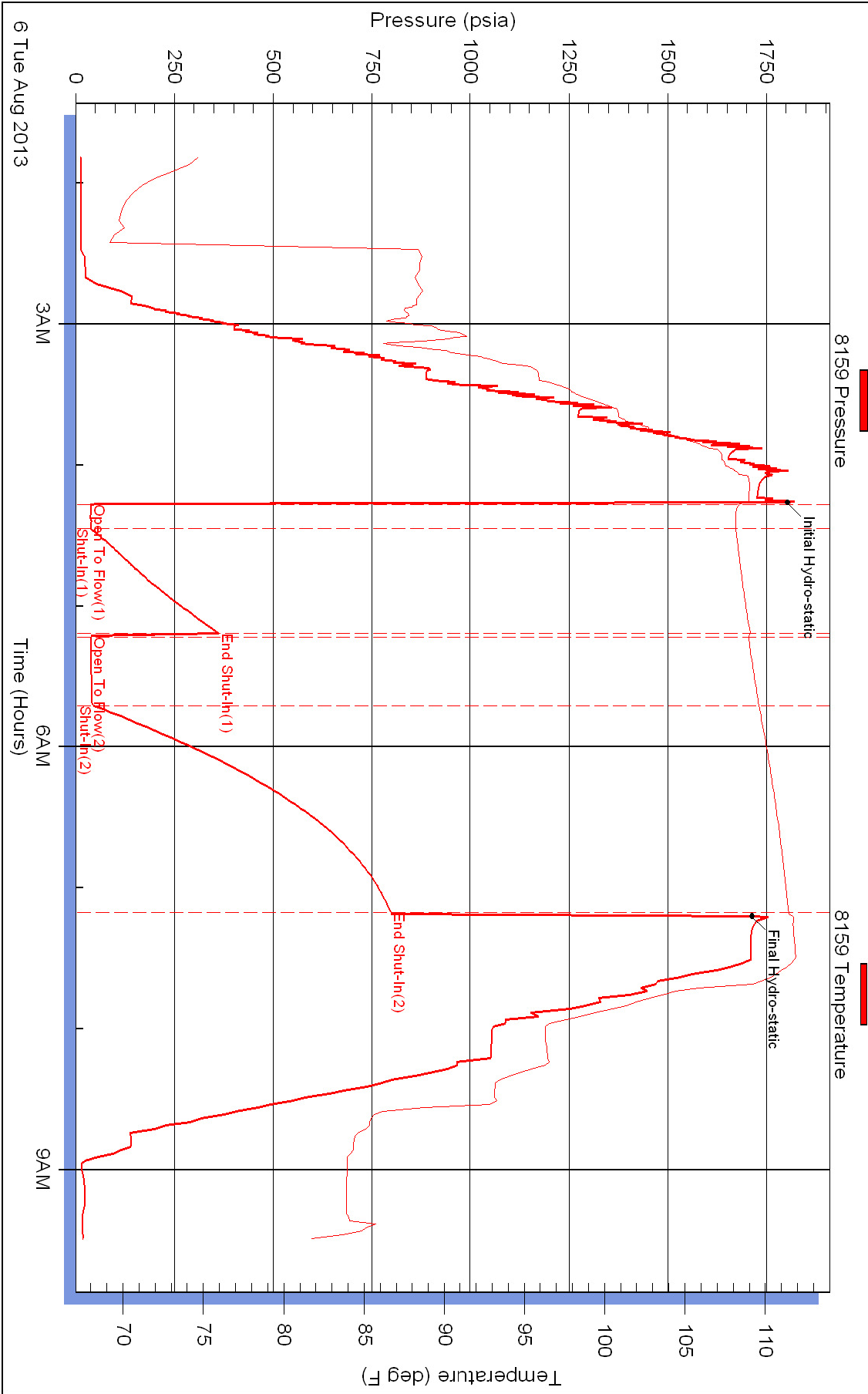
Length ft	Description	Volume bbl
30.00	mud	0.148

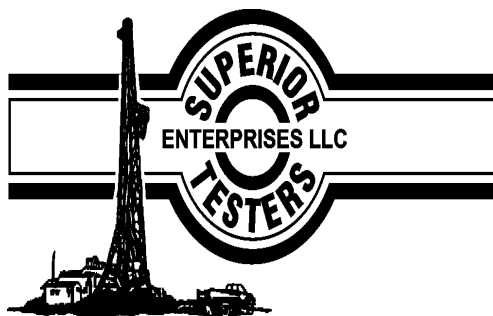
Total Length: 30.00 ft Total Volume: 0.148 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Edison Operating Company L.L.C**

8100 E 22nd st N Bldg 1900 Wichita KS
67226

ATTN: Adam Myshwager

Waite #1A-21

21-24s-13w Stafford

Start Date: 2013.08.07 @ 14:28:00

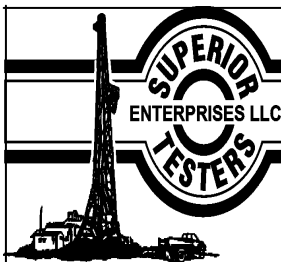
End Date: 2013.08.07 @ 21:44:00

Job Ticket #: 17020

DST #: 2

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

Printed: 2013.08.07 @ 21:57:26



DRILL STEM TEST REPORT

Edison Operating Company L.L.C
8100 E 22nd st N Bldg 1900 Wichita KS 67226
ATTN: Adam Myshwager

21-24s-13w Stafford
Waite #1A-21
Job Ticket: 17020 **DST#: 2**
Test Start: 2013.08.07 @ 14:28:00

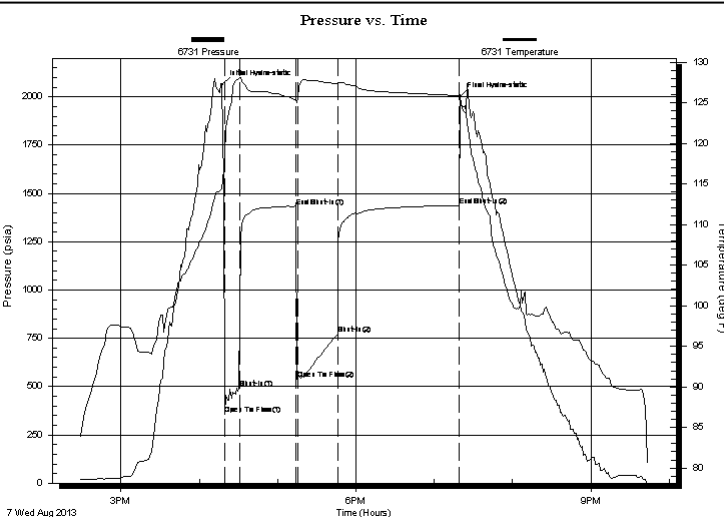
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:19:30
Time Test Ended: 21:44:00
Interval: **3986.00 ft (KB) To 4083.00 ft (KB) (TVD)**
Total Depth: 4083.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Jared Scheck
Unit No: 3320-Great Bend- 65
Reference Elevations: 1928.00 ft (KB)
1923.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6731

Press@RunDepth: 770.76 psia @ ft (KB) Capacity: 5000.00 psia
Start Date: 2013.08.07 End Date: 2013.08.07 Last Calib.: 2013.08.07
Start Time: 14:28:00 End Time: 21:44:00 Time On Btm: 2013.08.07 @ 16:17:30
Time Off Btm: 2013.08.07 @ 19:20:00

TEST COMMENT: 1st Opening 10 Minutes-Tool chased 30 feet to bottom strong blow bottom bucket 1 minute
1st Shut-in 45 Minutes-No blow back
2nd Opening 30 Minutes-Strong blow built bottom of bucket in 3 1/2 minutes
2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

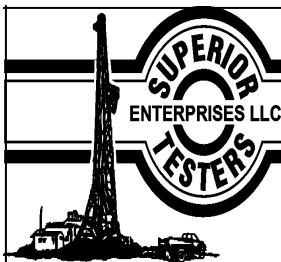
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2061.25	114.46	Initial Hydro-static
2	357.65	118.32	Open To Flow (1)
13	492.39	127.92	Shut-In (1)
57	1433.20	125.39	End Shut-In (1)
58	539.92	125.03	Open To Flow (2)
89	770.76	127.31	Shut-In (2)
182	1436.69	125.88	End Shut-In (2)
183	2001.63	125.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1260.00	oil mud cut w water 10%oil 40%mud 50%w	15.49
240.00	mud	3.37
0.00	chlorides 25,000 resistivity .15 @ 70 de	0.00

Gas Rates

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

Edison Operating Company L.L.C
8100 E 22nd st N Bldg 1900 Wichita KS 67226
ATTN: Adam Myshwager

21-24s-13w Stafford
Waite #1A-21
Job Ticket: 17020 **DST#:2**
Test Start: 2013.08.07 @ 14:28:00

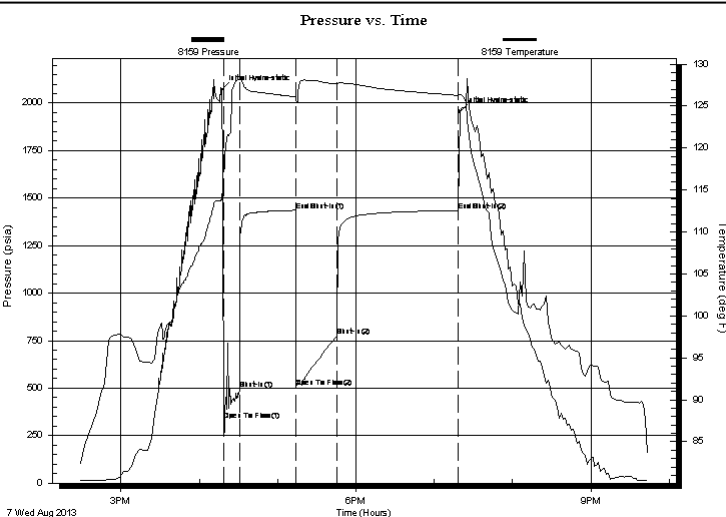
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:19:30
Time Test Ended: 21:44:00
Interval: **3986.00 ft (KB) To 4083.00 ft (KB) (TVD)**
Total Depth: 4083.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Jared Scheck
Unit No: 3320-Great Bend- 65
Reference Elevations: 1928.00 ft (KB)
1923.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8159

Press@RunDepth: 1434.30 psia @ ft (KB) Capacity: 5000.00 psia
Start Date: 2013.08.07 End Date: 2013.08.07 Last Calib.: 2013.08.07
Start Time: 14:28:00 End Time: 21:43:30 Time On Btm: 2013.08.07 @ 16:17:10
Time Off Btm:

TEST COMMENT: 1st Opening 10 Minutes-Tool chased 30 feet to bottom strong blow bottom bucket 1 minute
1st Shut-in 45 Minutes-No blow back
2nd Opening 30 Minutes-Strong blow built bottom of bucket in 3 1/2 minutes
2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

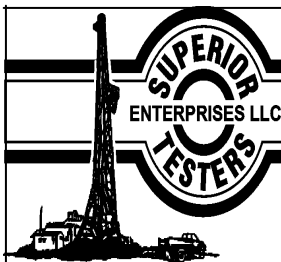
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2071.43	113.88	Initial Hydro-static
2	332.34	117.04	Open To Flow (1)
14	495.84	128.25	Shut-In(1)
57	1436.01	126.08	End Shut-In(1)
57	506.53	125.77	Open To Flow (2)
88	772.86	127.66	Shut-In(2)
182	1434.30	126.27	End Shut-In(2)
183	1955.58	126.40	Initial Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1260.00	oil mud cut w ater 10%oil 40%mud 50%w	15.49
240.00	mud	3.37
0.00	chlorides 25,000 resistivity .15 @ 70 de	0.00

Gas Rates

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

TOOL DIAGRAM

Edison Operating Company L.L.C

21-24s-13w Stafford

8100 E 22nd st N Bldg 1900 Wichita KS 67226

Waite #1A-21

Job Ticket: 17020

DST#:2

ATTN: Adam Myshwager

Test Start: 2013.08.07 @ 14:28:00

Tool Information

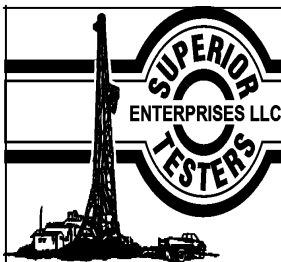
Drill Pipe:	Length:	3732.00 ft	Diameter:	3.80 inches	Volume:	52.35 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	240.00 ft	Diameter:	2.25 inches	Volume:	1.18 bbl	Weight to Pull Loose:	65000.00 lb
					Total Volume:	53.53 bbl	Tool Chased	30.00 ft
Drill Pipe Above KB:		6.00 ft					String Weight: Initial	55000.00 lb
Depth to Top Packer:		3986.00 ft					Final	59000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		97.00 ft						
Tool Length:		117.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments: Tool chased 30 feet to bottom

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3971.00	
Hydraulic Tool	5.00			3976.00	
Packer	5.00			3981.00	20.00 Bottom Of Top Packer
Packer	5.00			3986.00	
Anchor	0.00			3986.00	
Change Over Sub	0.75			3986.75	
Drill Pipe	63.50			4050.25	
Change Over Sub	0.75			4051.00	
Anchor	27.00			4078.00	
Recorder	1.00	6731	Inside	4079.00	
Recorder	1.00	8159	Outside	4080.00	
Bullnose	3.00			4083.00	97.00 Bottom Packers & Anchor

Total Tool Length: 117.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Edison Operating Company L.L.C
8100 E 22nd st N Bldg 1900 Wichita KS 67226
ATTN: Adam Myshwager

21-24s-13w Stafford
Waite #1A-21
Job Ticket: 17020
DST#: 2
Test Start: 2013.08.07 @ 14:28:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 41.00 sec/qt
Water Loss: 12.80 in³
Resistivity: ohm.m
Salinity: 10000.00 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: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1260.00	oil mud cut w ater 10%oil 40%mud 50%w ater	15.488
240.00	mud	3.367
0.00	chlorides 25,000 resistivity .15 @ 70 de	0.000

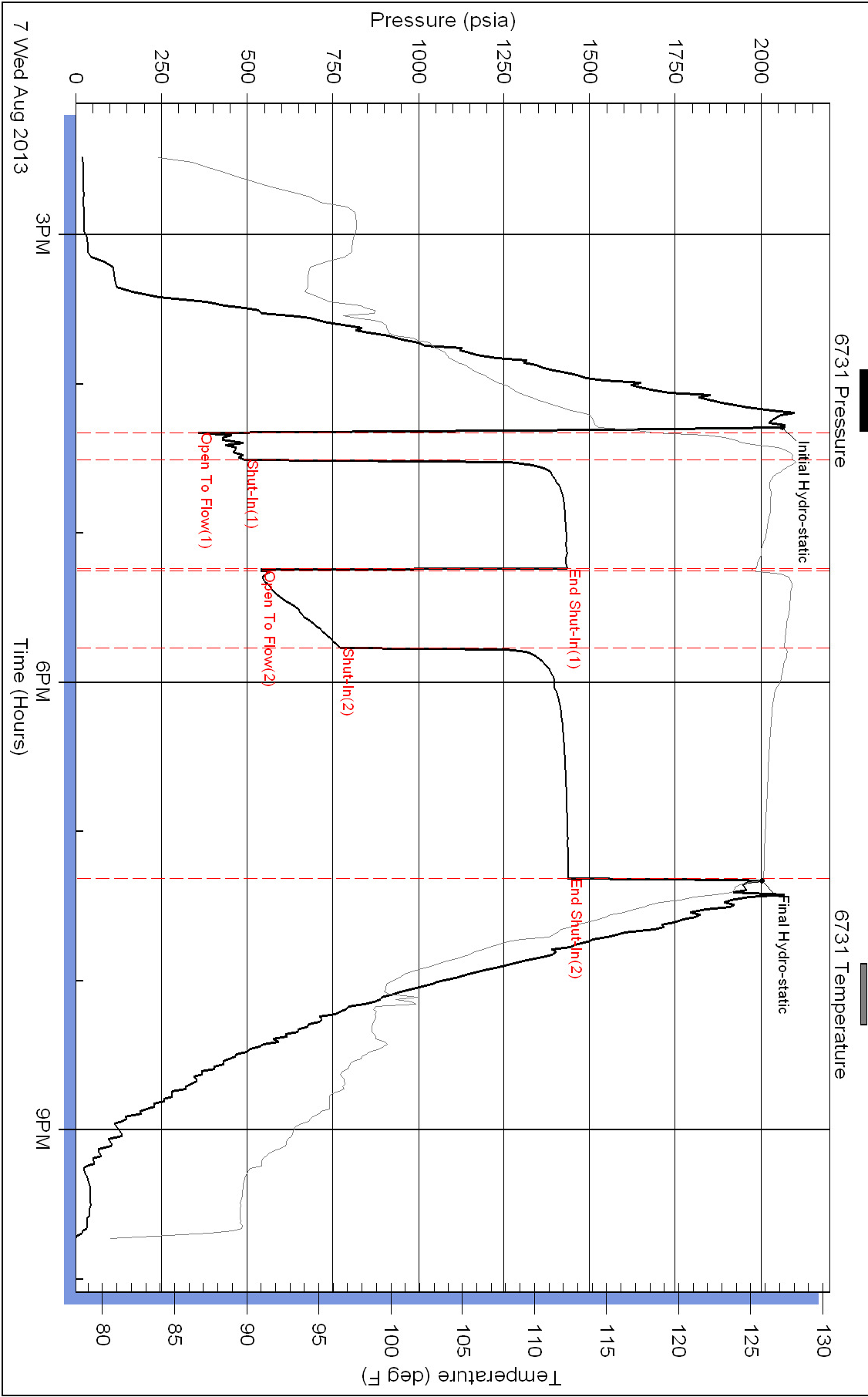
Total Length: 1500.00 ft Total Volume: 18.855 bbl

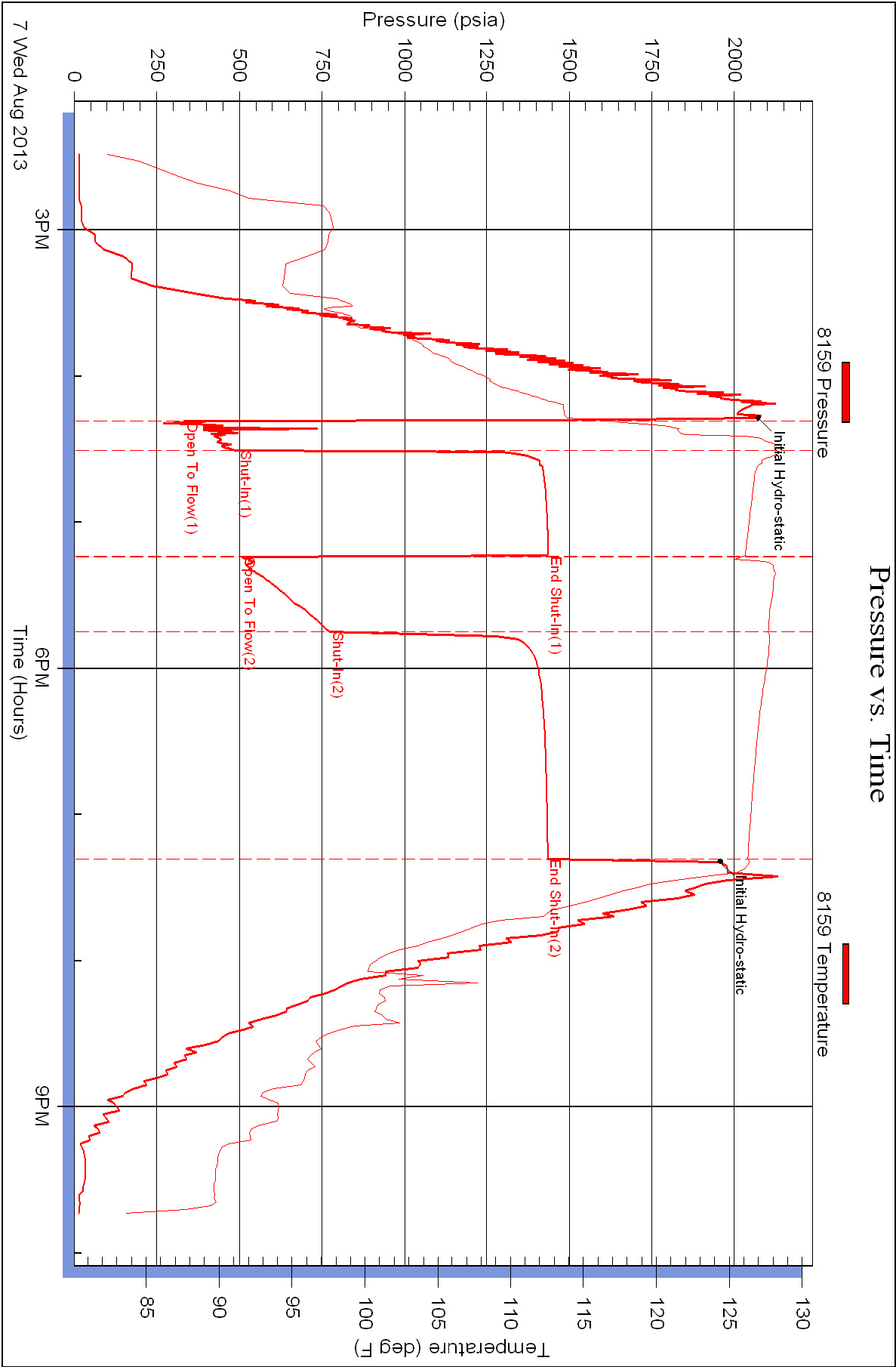
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

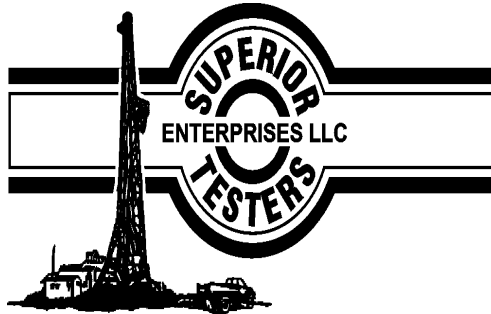
Laboratory Name: Laboratory Location:

Recovery Comments: chlorides 25,000

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Edison Operating Company L.L.C**

8100 E 22nd st N Bldg 1900 Wichita KS
67226

ATTN: Adam Myshwager

Waite #1A-21

21-24s-13w Stafford

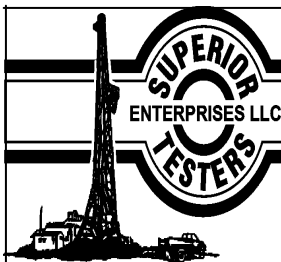
Start Date: 2013.08.08 @ 23:57:00

End Date: 2013.08.09 @ 07:56:30

Job Ticket #: 17021 DST #: 3

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

Printed: 2013.08.09 @ 08:23:14



DRILL STEM TEST REPORT

Edison Operating Company L.L.C
8100 E 22nd st N Bldg 1900 Wichita KS 67226
ATTN: Adam Myshwager

21-24s-13w Stafford
Waite #1A-21
Job Ticket: 17021 **DST#: 3**
Test Start: 2013.08.08 @ 23:57:00

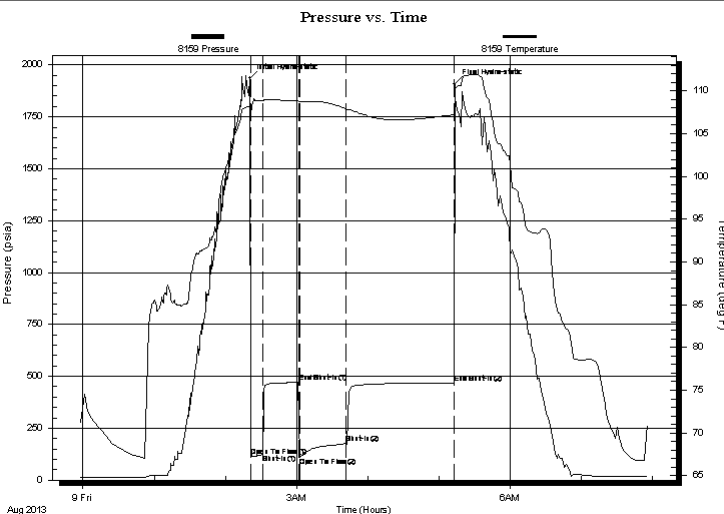
GENERAL INFORMATION:

Formation: **Lansing K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:21:20
Time Test Ended: 07:56:30
Test Type: Conventional Straddle (Initial)
Tester: Jared Scheck
Unit No: 3320-Great Bend-65
Interval: **3735.00 ft (KB) To 4183.00 ft (KB) (TVD)**
Reference Elevations: 1928.00 ft (KB)
Total Depth: 4183.00 ft (KB) (TVD)
1923.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair
KB to GR/CF: 5.00 ft

Serial #: 8159

Press@RunDepth: 176.73 psia @ ft (KB) Capacity: 5000.00 psia
Start Date: 2013.08.08 End Date: 2013.08.09 Last Calib.: 2013.08.09
Start Time: 23:57:00 End Time: 07:56:30 Time On Btm: 2013.08.09 @ 02:20:50
Time Off Btm: 2013.08.09 @ 05:13:30

TEST COMMENT: 1st Opening 10 Minutes-Strong blow built bottom of bucket in 1 minute
1st Shut-in 30 Minutes-Yes blow back
2nd Opening 40 Minutes-Strong blow built bottom of bucket in 1 minute gas to surface see gas report
2nd Shut-in 90 Minutes-Yes blow back



PRESSURE SUMMARY

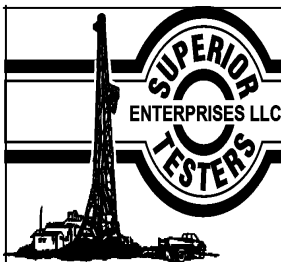
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1935.60	108.23	Initial Hydro-static
1	112.98	107.75	Open To Flow (1)
11	123.35	108.82	Shut-In(1)
41	470.24	108.89	End Shut-In(1)
43	111.87	108.80	Open To Flow (2)
81	176.73	107.90	Shut-In(2)
172	468.52	107.22	End Shut-In(2)
173	1909.49	109.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	mud	0.89
0.00	3320 feet gas in pipe	0.00
0.00	gas sample was taken	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.50	47.50	320.42
Last Gas Rate	0.50	57.60	388.55
Max. Gas Rate	0.50	57.60	388.55



DRILL STEM TEST REPORT

Edison Operating Company L.L.C
8100 E 22nd st N Bldg 1900 Wichita KS 67226
ATTN: Adam Myshwager

21-24s-13w Stafford
Waite #1A-21
Job Ticket: 17021 **DST#: 3**
Test Start: 2013.08.08 @ 23:57:00

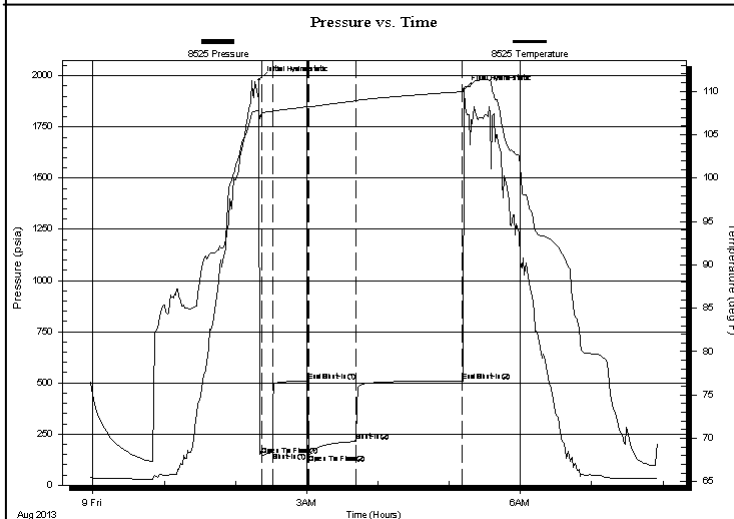
GENERAL INFORMATION:

Formation: **Lansing K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:21:20
Time Test Ended: 07:56:30
Test Type: Conventional Straddle (Initial)
Tester: Jared Scheck
Unit No: 3320-Great Bend-65
Interval: **3735.00 ft (KB) To 4183.00 ft (KB) (TVD)**
Reference Elevations: 1928.00 ft (KB)
Total Depth: 4183.00 ft (KB) (TVD)
1923.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair
KB to GR/CF: 5.00 ft

Serial #: 8525

Press@RunDepth: 509.81 psia @ ft (KB) Capacity: 5000.00 psia
Start Date: 2013.08.08 End Date: 2013.08.09 Last Calib.: 2013.08.09
Start Time: 23:57:00 End Time: 07:55:30 Time On Btm: 2013.08.09 @ 02:20:00
Time Off Btm: 2013.08.09 @ 05:12:30

TEST COMMENT: 1st Opening 10 Minutes-Strong blow built bottom of bucket in 1 minute
1st Shut-in 30 Minutes-Yes blow back
2nd Opening 40 Minutes-Strong blow built bottom of bucket in 1 minute gas to surface see gas report
2nd Shut-in 90 Minutes-Yes blow back



PRESSURE SUMMARY

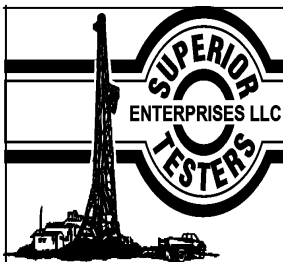
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1979.20	107.72	Initial Hydro-static
2	147.34	107.46	Open To Flow (1)
11	159.23	107.69	Shut-In(1)
41	508.07	108.25	End Shut-In(1)
42	148.58	108.22	Open To Flow (2)
81	214.99	108.91	Shut-In(2)
171	509.81	109.98	End Shut-In(2)
173	1929.90	110.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	mud	0.89
0.00	3320 feet gas in pipe	0.00
0.00	gas sample was taken	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.50	47.50	320.42
Last Gas Rate	0.50	57.60	388.55
Max. Gas Rate	0.50	57.60	388.55



DRILL STEM TEST REPORT

TOOL DIAGRAM

Edison Operating Company L.L.C

21-24s-13w Stafford

8100 E 22nd st N Bldg 1900 Wichita KS 67226

Waite #1A-21

Job Ticket: 17021

DST#: 3

ATTN: Adam Myshwager

Test Start: 2013.08.08 @ 23:57:00

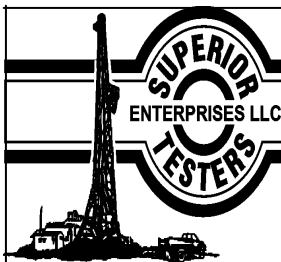
Tool Information

Drill Pipe:	Length:	3500.00 ft	Diameter:	3.80 inches	Volume:	49.10 bbl	Tool Weight:	1000.00 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:	240.00 ft	Diameter:	2.25 inches	Volume:	1.18 bbl	Weight to Pull Loose:	70000.00 lb
					Total Volume:	50.28 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		20.00 ft					String Weight: Initial	49000.00 lb
Depth to Top Packer:		3740.00 ft					Final	51000.00 lb
Depth to Bottom Packer:		3770.00 ft						
Interval between Packers:		30.00 ft						
Tool Length:		469.00 ft						
Number of Packers:		4	Diameter:	6.75 inches				

Tool Comments: gas to surface see gas report gas sample was taken/ruined packer

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3725.00	
HYD S.I. Tool	5.00			3730.00	
Packer	5.00			3735.00	20.00 Bottom Of Top Packer
Packer	5.00			3740.00	
Anchor	29.00			3769.00	
Recorder	0.00			3769.00	
Blank Off Sub	1.00			3770.00	
Packer	5.00			3775.00	30.00 Tool Interval
Packer	5.00			3780.00	
recorder	1.00			3781.00	
tail pipe	408.00			4189.00	419.00 Bottom Packers & Anchor

Total Tool Length: 469.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Edison Operating Company L.L.C
8100 E 22nd st N Bldg 1900 Wichita KS 67226
ATTN: Adam Myshwager

21-24s-13w Stafford
Waite #1A-21
Job Ticket: 17021 **DST#: 3**
Test Start: 2013.08.08 @ 23:57:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 71.00 sec/qt
Water Loss: 9.60 in³
Resistivity: ohm.m
Salinity: 9000.00 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: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	mud	0.885
0.00	3320 feet gas in pipe	0.000
0.00	gas sample w as taken	0.000

Total Length: 180.00 ft Total Volume: 0.885 bbl

Num Fluid Samples: 0

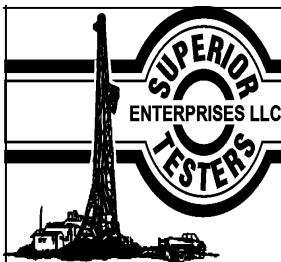
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: gas to surface see gas report gas sample w as taken /ruined packer



DRILL STEM TEST REPORT

GAS RATES

Edison Operating Company L.L.C

21-24s-13w Stafford

8100 E 22nd st N Bldg 1900 Wichita KS 67226

Waite #1A-21

Job Ticket: 17021

DST#:3

ATTN: Adam Myshwager

Test Start: 2013.08.08 @ 23:57:00

Gas Rates Information

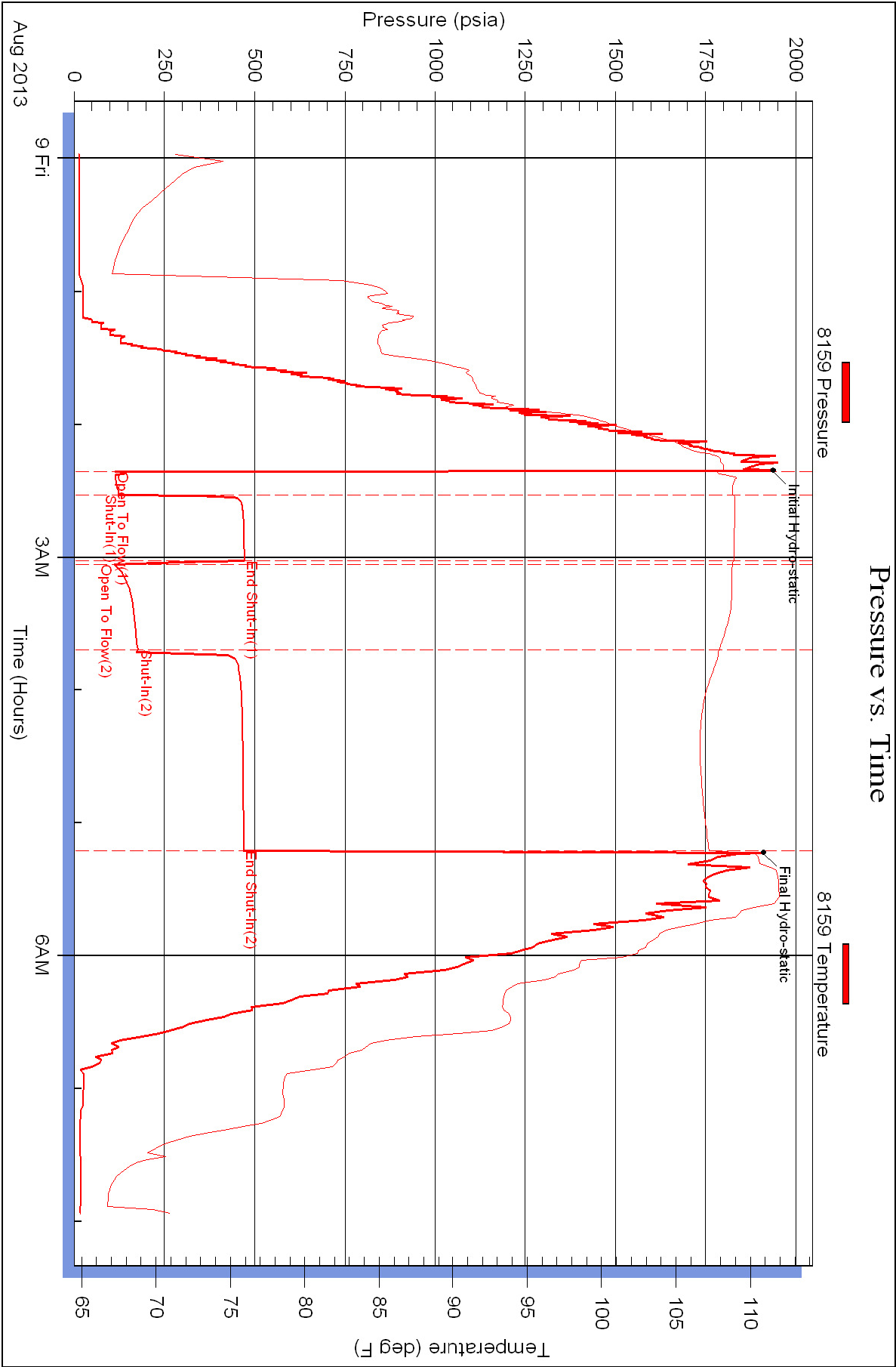
Temperature: 59 (deg F)

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	0.50	47.50	320.42
2	20	0.50	52.00	350.78
2	30	0.50	55.60	375.06
2	40	0.50	57.60	388.55

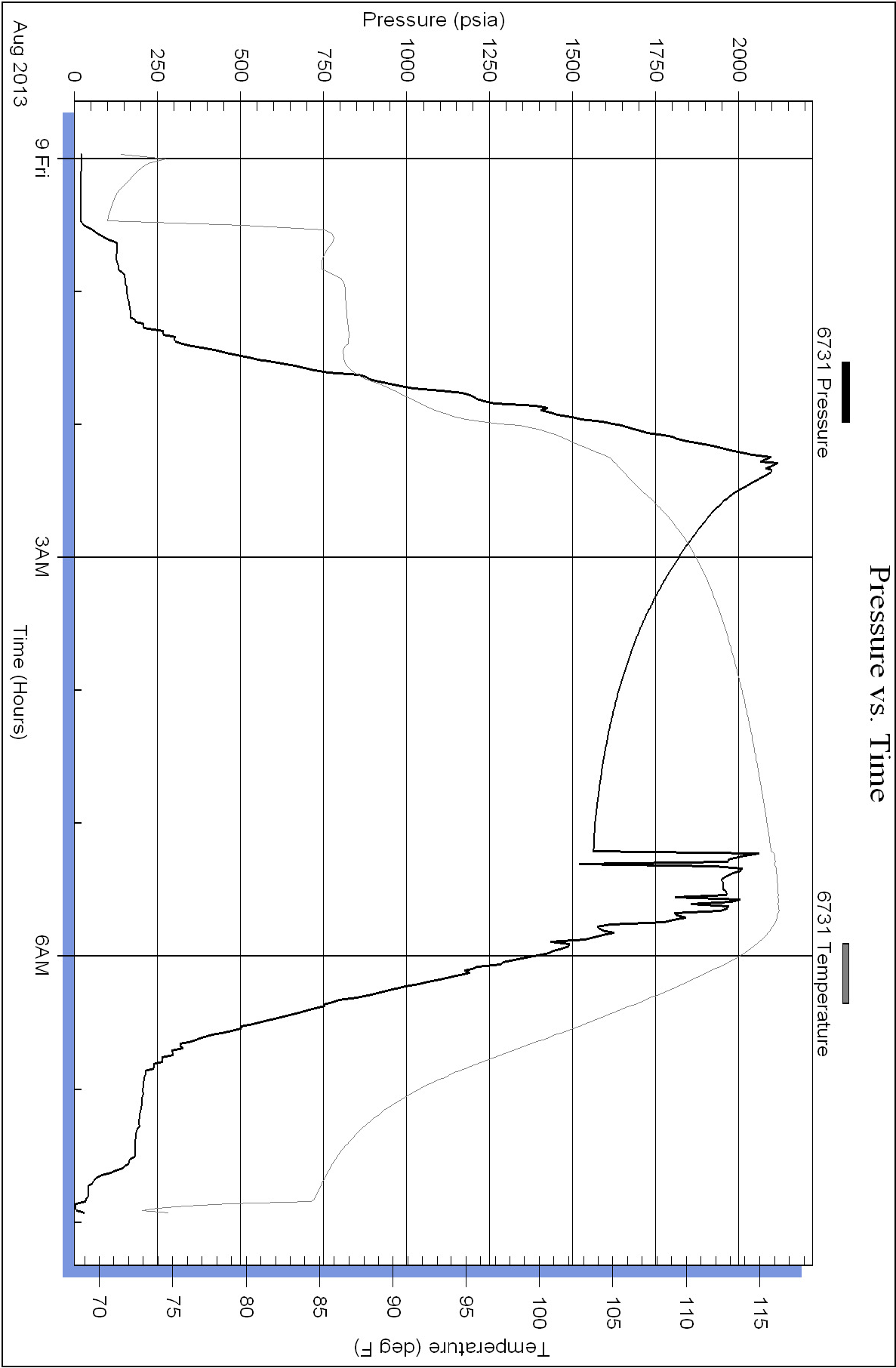


Serial #: 6731

Edison Operating Company L.L.C

Waite #1A-21

DST Test Number: 3



Pressure vs. Time

