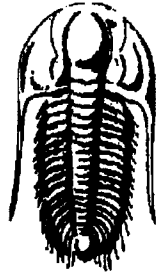


15-165-21862

23-16s-16w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Associates, Inc.**

1515 Wynkoop St
Suite 700
Denver, CO 80202

ATTN: Clayton Camozzi

23 16s 16w Rush KS

Tuzicka #1-23

Start Date: 2009.11.28 @ 16:15:42

End Date: 2009.11.28 @ 22:23:27

Job Ticket #: 38052 DST #: 1

KCC
MAR 15 2010
CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION

MAR 17 2010

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Samuel Gary Jr. & Associates, Inc.

Tuzicka #1-23

23 16s 16w Rush KS

DST # 1

Topoka

2009.11.28



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

Tuzicka #1-23

1515 Wynkoop St
Suite 700
Denver, CO 80202
ATTN: Clayton Camozzi

23 16s 16w Rush KS

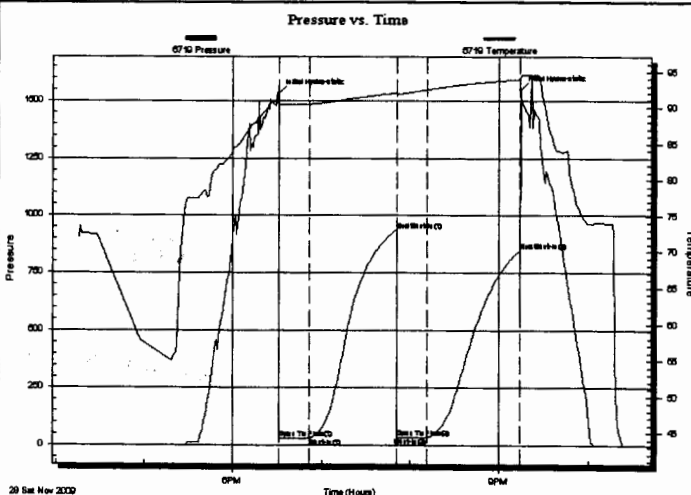
Job Ticket: 38052 **DST#: 1**
Test Start: 2009.11.28 @ 16:15:42

GENERAL INFORMATION:

Formation: **Topeka**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:31:27
Time Test Ended: 22:23:27
Interval: **3104.00 ft (KB) To 3139.00 ft (KB) (TVD)**
Total Depth: 3139.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Tyson Flax
Unit No: 44
Reference Elevations: 1964.00 ft (KB)
1956.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6719 Inside
Press@RunDepth: 34.28 psig @ 3105.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2009.11.28 End Date: 2009.11.28 Last Calib.: 2009.11.28
Start Time: 16:15:47 End Time: 22:23:26 Time On Btm: 2009.11.28 @ 18:31:12
Time Off Btm: 2009.11.28 @ 21:14:41

TEST COMMENT: IFF-Weak 1/2" blow throughout
ISI-no blow back
FFP-no blow
FSI-no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1532.26	90.73	Initial Hydro-static
1	28.79	90.48	Open To Flow (1)
21	31.09	90.45	Shut-In(1)
80	935.90	92.04	End Shut-In(1)
81	34.49	91.88	Open To Flow (2)
101	34.28	92.47	Shut-In(2)
163	845.29	93.94	End Shut-In(2)
164	1549.09	94.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud	0.28

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	12.00	41.88



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Associates, Inc.

Tuzicka #1-23

1515 Wynkoop St
Suite 700
Denver, CO 80202
ATTN: Clayton Camozzi

23 16s 16w Rush KS

Job Ticket: 38052

DST#: 1

Test Start: 2009.11.28 @ 16:15:42

Tool Information

Drill Pipe:	Length: 3105.00 ft	Diameter: 3.82 inches	Volume: 44.01 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 44.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3104.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	64.00 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			3076.00	
Shut In Tool	5.00			3081.00	
Hydraulic tool	5.00			3086.00	
Jars	5.00			3091.00	
Safety Joint	3.00			3094.00	
Packer	5.00			3099.00	29.00 Bottom Of Top Packer
Packer	5.00			3104.00	
Stubb	1.00			3105.00	
Recorder	0.00	6669	inside	3105.00	
Recorder	0.00	6719	inside	3105.00	
Perforations	31.00			3136.00	
Bullnose	3.00			3139.00	35.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

Tuzicka #1-23

1515 Wynkoop St
Suite 700
Denver, CO 80202

23 16s 16w Rush KS

Job Ticket: 38052

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2009.11.28 @ 16:15:42

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud	0.284

Total Length: 20.00 ft

Total Volume: 0.284 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Samuel Gary Jr. & Associates, Inc.

Tuzicka #1-23

1515 Wynkoop St

23 16s 16w Rush KS

Suite 700

Job Ticket: 38052

DST#: 1

Denver, CO 80202

ATTN: Clayton Carozzi

Test Start: 2009.11.28 @ 16:15:42

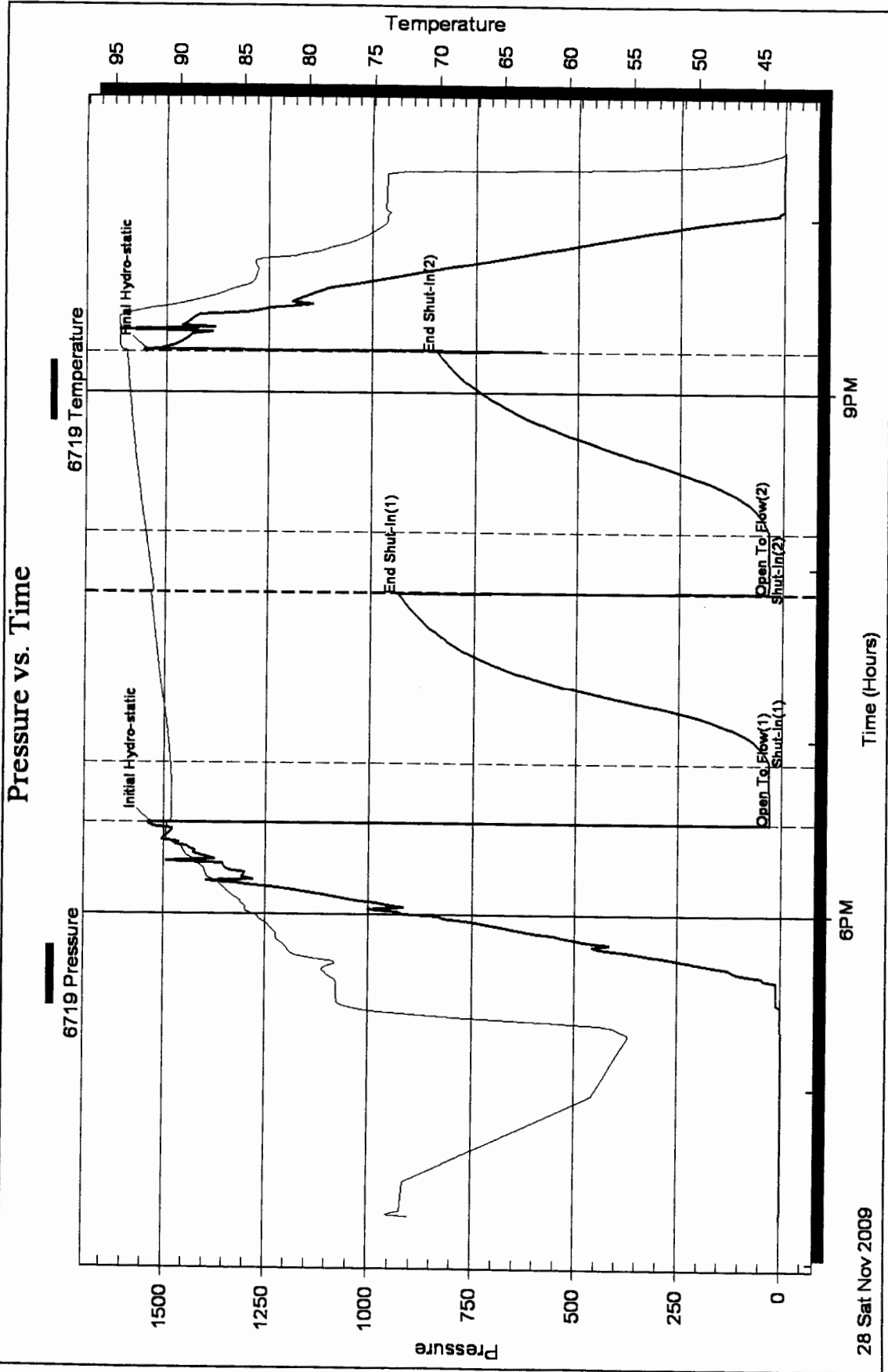
Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	10	0.25	12.00	41.88

Pressure vs. Time

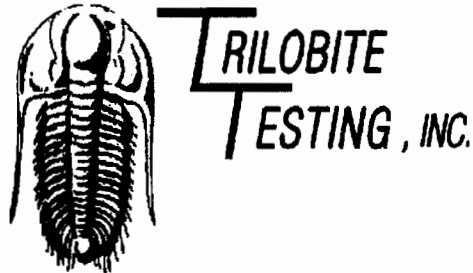


28 Sat Nov 2009

6PM

9PM

Time (Hours)



DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Associates, Inc.**

1515 Wynkoop St
Suite 700
Denver, CO 80202

ATTN: Clayton Camozzi

23 16s 16w Rush KS

Tuzicka #1-23

Start Date: 2009.11.29 @ 08:00:35

End Date: 2009.11.29 @ 17:31:05

Job Ticket #: 38053 DST #: 2

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

Tuzicka #1-23

1515 Wynkoop St
Suite 700
Denver, CO 80202
ATTN: Clayton Carozzi

23 16s 16w Rush KS

Job Ticket: 38053 **DST#: 2**
Test Start: 2009.11.29 @ 08:00:35

GENERAL INFORMATION:

Formation: **LKC "A-C"**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 10:07:05
Time Test Ended: 17:31:05

Test Type: Conventional Bottom Hole
Tester: Tyson Flax
Unit No: 44

Interval: **3253.00 ft (KB) To 3286.00 ft (KB) (TVD)**
Total Depth: 3286.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1964.00 ft (KB)
1956.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6719

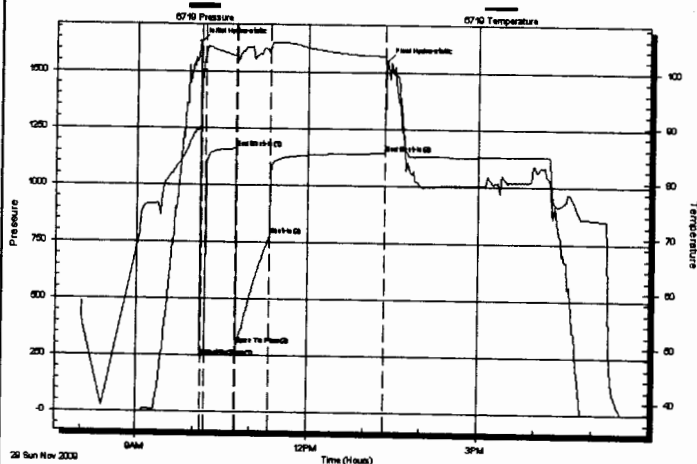
Inside

Press@RunDepth: 778.09 psig @ 3254.00 ft (KB)
Start Date: 2009.11.29 End Date: 2009.11.29
Start Time: 08:00:40 End Time: 17:31:05

Capacity: 8000.00 psig
Last Calib.: 2009.11.29
Time On Btm: 2009.11.29 @ 10:05:50
Time Off Btm: 2009.11.29 @ 13:23:20

TEST COMMENT: IFF-BOB in 10 sec
IS-BOB in 2 min - GTS in 13 min
FFP-BOB in 5 sec
FSI-BOB in 1 min

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1631.20	89.76	Initial Hydro-static
2	243.53	94.93	Open To Flow (1)
6	280.54	102.93	Shut-In (1)
38	1158.90	102.84	End Shut-In (1)
39	298.26	101.68	Open To Flow (2)
75	778.09	103.95	Shut-In (2)
196	1142.34	102.99	End Shut-In (2)
198	1547.93	100.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2070.00	GCO 30%G,70%O	29.34

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	16.00	48.23
Last Gas Rate	0.25	5.00	30.78
Max. Gas Rate	0.25	16.00	48.23



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Associates, Inc.

Tuzicka #1-23

1515 Wynkoop St
Suite 700
Denver, CO 80202
ATTN: Clayton Carozzi

23 16s 16w Rush KS

Job Ticket: 38053

DST#: 2

Test Start: 2009.11.29 @ 08:00:35

Tool Information

Drill Pipe:	Length: 3224.00 ft	Diameter: 3.82 inches	Volume: 45.70 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 45.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	0.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3253.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	62.00 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			3225.00	
Shut In Tool	5.00			3230.00	
Hydraulic tool	5.00			3235.00	
Jars	5.00			3240.00	
Safety Joint	3.00			3243.00	
Packer	5.00			3248.00	29.00 Bottom Of Top Packer
Packer	5.00			3253.00	
Stubb	1.00			3254.00	
Recorder	0.00	6669	Inside	3254.00	
Recorder	0.00	6719	Inside	3254.00	
Perforations	29.00			3283.00	
Bullnose	3.00			3286.00	33.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

Tuzicka #1-23

1515 Wynkoop St

23 16s 16w Rush KS

Suite 700

Job Ticket: 38053

DST#: 2

Denver, CO 80202

ATTN: Clayton Camozzi

Test Start: 2009.11.29 @ 08:00:35

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2070.00	GCO 30%G,70%O	29.343

Total Length: 2070.00 ft

Total Volume: 29.343 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Samuel Gary Jr. & Associates, Inc.

Tuzicka #1-23

1515 Wynkoop St
Suite 700

23 16s 16w Rush KS

Denver, CO 80202

Job Ticket: 38053

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2009.11.29 @ 08:00:35

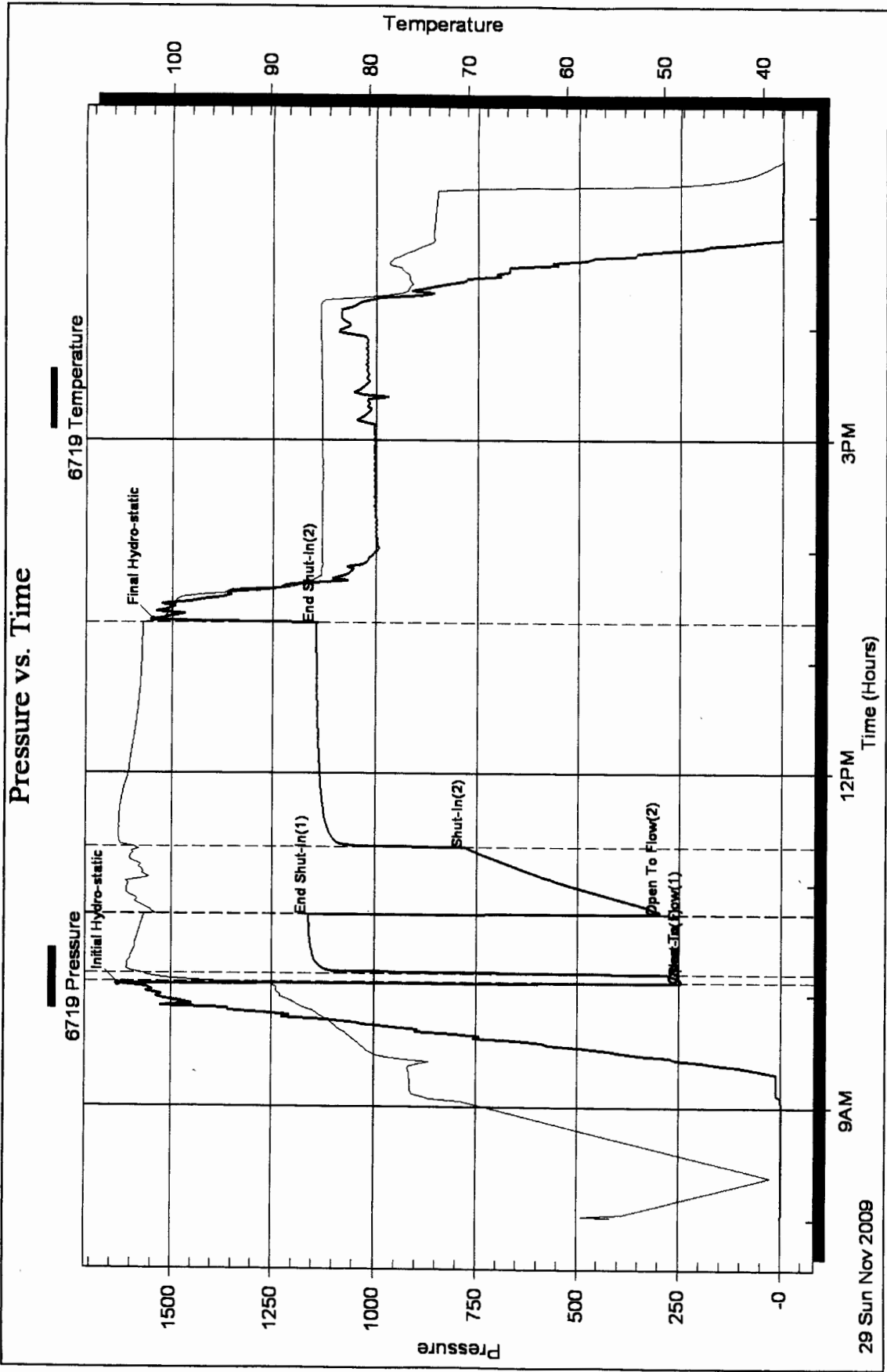
Gas Rates Information

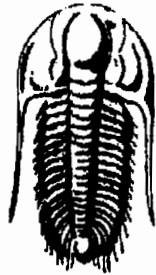
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	10	0.25	16.00	48.23
2	10	0.25	16.00	48.23
2	20	0.25	13.00	43.47
2	40	0.25	5.00	30.78

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Associates, Inc.**

1515 Wynkoop St
Suite 700
Denver, CO 80202

ATTN: Clayton Camozzi

23 16s 16w Rush KS

Tuzicka #1-23

Start Date: 2009.11.29 @ 17:48:00

End Date: 2009.11.30 @ 02:27:00

Job Ticket #: 38054 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

Tuzicka #1-23

1515 Wynkoop St
Suite 700
Denver, CO 80202
ATTN: Clayton Camozzi

23 16s 16w Rush KS

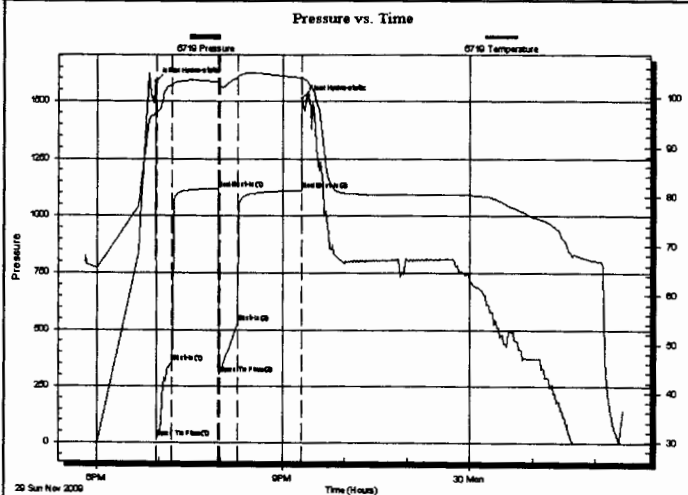
Job Ticket: 38054 **DST#: 3**
Test Start: 2009.11.29 @ 17:48:00

GENERAL INFORMATION:

Formation: **Toronto-Douglas**
 Deviated: **No Whipstock** ft (KB)
 Test Type: **Conventional Straddle**
 Time Tool Opened: **18:57:30**
 Tester: **Tyson Flax**
 Time Test Ended: **02:27:00**
 Unit No: **44**
 Interval: **3190.00 ft (KB) To 3252.00 ft (KB) (TVD)**
 Reference Elevations: **1964.00 ft (KB)**
 Total Depth: **3286.00 ft (KB) (TVD)**
1956.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 KB to GR/CF: **8.00 ft**

Serial #: 6719 Inside
 Press@RunDepth: **530.96 psig @ 3195.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2009.11.29** End Date: **2009.11.30** Last Calib.: **2009.11.30**
 Start Time: **17:48:05** End Time: **02:27:00** Time On Btm: **2009.11.29 @ 18:57:00**
 Time Off Btm: **2009.11.29 @ 21:19:00**

TEST COMMENT: IFF-BOB in 3 min
 ISI-BOB in 1 min died to 6"
 FFP-BOB in 30 sec
 FSI-Blow back built to 8"



PRESSURE SUMMARY

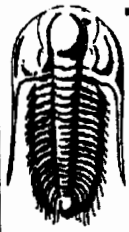
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1585.54	97.13	Initial Hydro-static
1	21.00	96.83	Open To Flow (1)
16	356.19	102.58	Shut-In (1)
60	1118.34	103.11	End Shut-In (1)
62	304.78	102.30	Open To Flow (2)
80	530.96	104.04	Shut-In (2)
142	1115.11	103.99	End Shut-In (2)
142	1511.51	104.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1680.00	GCO	23.81

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	30.00	70.44
Last Gas Rate	0.25	5.00	30.78
Max. Gas Rate	0.25	30.00	70.44



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Associates, Inc.

Tuzicka #1-23

1515 Wynkoop St
Suite 700
Denver, CO 80202

23 16s 16w Rush KS

Job Ticket: 38054

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2009.11.29 @ 17:48:00

Tool Information

Drill Pipe:	Length: 3174.00 ft	Diameter: 3.82 inches	Volume: 44.99 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			Total Volume: 44.99 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3190.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	3252.00 ft			
Interval between Packers:	62.00 ft			
Tool Length:	119.00 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			3170.00	
Shut In Tool	5.00			3175.00	
Hydraulic tool	5.00			3180.00	
Packer	5.00			3185.00	21.00 Bottom Of Top Packer
Packer	5.00			3190.00	
Stubb	1.00			3191.00	
Perforations	3.00			3194.00	
Change Over Sub	1.00			3195.00	
Recorder	0.00	6719	Inside	3195.00	
Blank Spacing	32.00			3227.00	
Perforations	21.00			3248.00	
Recorder	0.00	13401	Inside	3248.00	
Blank Off Sub	1.00			3249.00	
Stubb	3.00			3252.00	62.00 Tool Interval
Packer	1.00			3253.00	
Stubb	1.00			3254.00	
Perforations	1.00			3255.00	
Perforations	1.00			3256.00	
Change Over Sub	1.00			3257.00	
Recorder	0.00	6669	Outside	3257.00	
Blank Spacing	31.00			3288.00	36.00 Bottom Packers & Anchor
Total Tool Length:		119.00			



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

Tuzicka #1-23

1515 Wynkoop St
Suite 700
Denver, CO 80202
ATTN: Clayton Camozzi

23 16s 16w Rush KS

Job Ticket: 38054

DST#: 3

Test Start: 2009.11.29 @ 17:48:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1680.00	GCO	23.815

Total Length: 1680.00 ft Total Volume: 23.815 bbl

Num Fluid Samples: 0

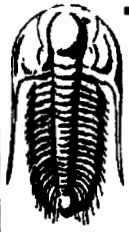
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 39 @ 37° F



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Samuel Gary Jr. & Associates, Inc.

Tuzicka #1-23

1515 Wynkoop St

23 16s 16w Rush KS

Suite 700

Job Ticket: 38054

DST#: 3

Denver, CO 80202

ATTN: Clayton Camozzi

Test Start: 2009.11.29 @ 17:48:00

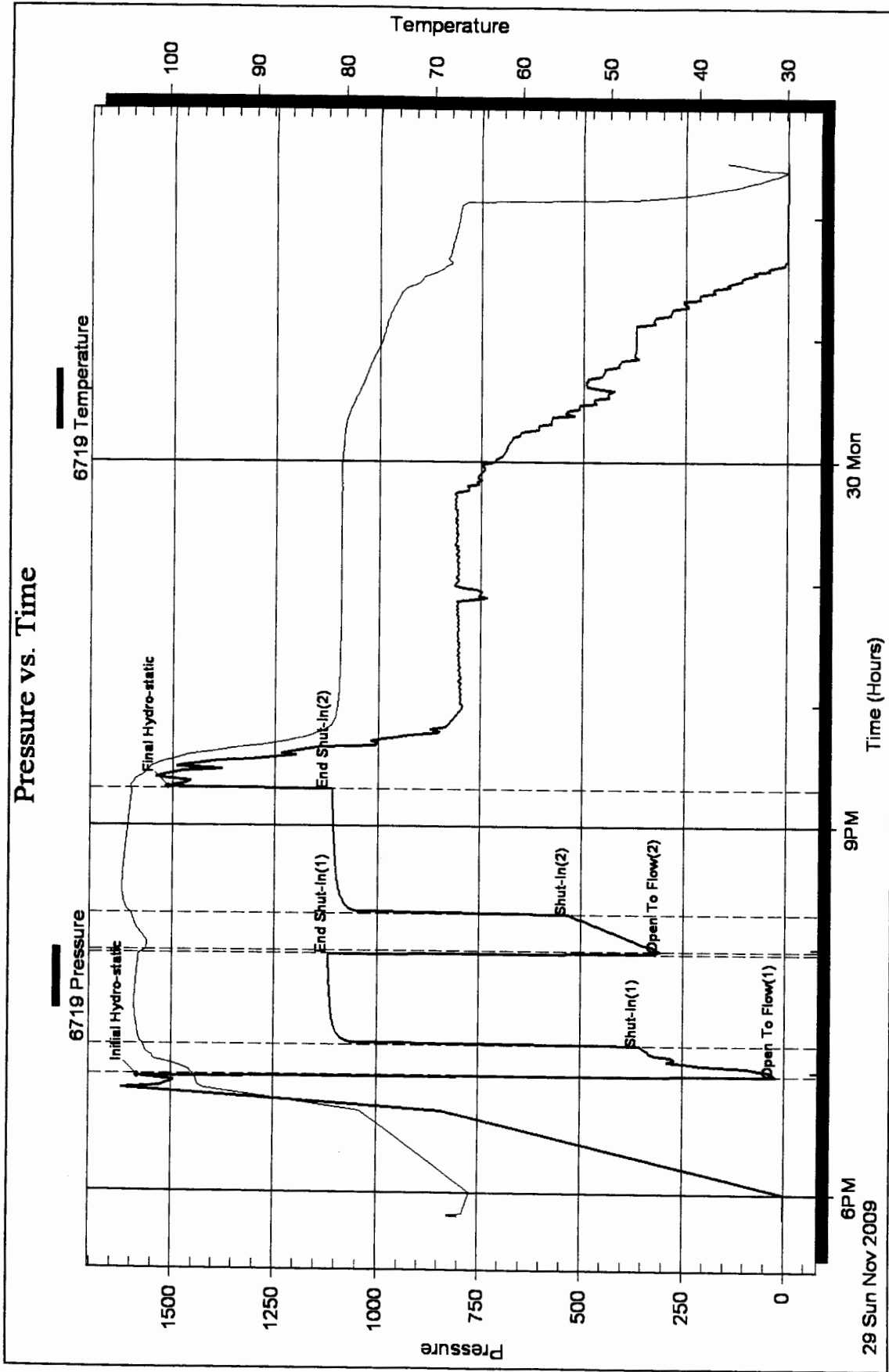
Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	5	0.25	30.00	70.44
2	5	0.25	30.00	70.44
2	10	0.25	13.00	43.47
2	15	0.25	5.00	30.78

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Associates, Inc.**

1515 Wynkoop St
Suite 700
Denver, CO 80202

ATTN: Clayton Camozzi

23 16s 16w Rush KS

Tuzicka #1-23

Start Date: 2009.11.30 @ 19:50:48

End Date: 2009.12.01 @ 02:52:03

Job Ticket #: 38055 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Associates, Inc.

Tuzicka #1-23

1515 Wynkoop St
Suite 700
Denver, CO 80202
ATTN: Clayton Camozzi

23 16s 16w Rush KS

Job Ticket: 38055

DST#: 4

Test Start: 2009.11.30 @ 19:50:48

Tool Information

Drill Pipe:	Length: 3512.00 ft	Diameter: 3.82 inches	Volume: 49.78 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 49.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3531.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	38.00 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			3503.00	
Shut In Tool	5.00			3508.00	
Hydraulic tool	5.00			3513.00	
Jars	5.00			3518.00	
Safety Joint	3.00			3521.00	
Packer	5.00			3526.00	29.00 Bottom Of Top Packer
Packer	5.00			3531.00	
Stubb	1.00			3532.00	
Recorder	0.00	6669	Inside	3532.00	
Recorder	0.00	6719	Inside	3532.00	
Perforations	5.00			3537.00	
Bullnose	3.00			3540.00	9.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

Tuzicka #1-23

1515 Wynkoop St
Suite 700
Denver, CO 80202

23 16s 16w Rush KS

Job Ticket: 38055

DST#: 4

ATTN: Clayton Camozzi

Test Start: 2009.11.30 @ 19:50:48

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 68.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	MCO 60%O 40%M	1.276
270.00	CO	3.827
0.00	120' GIP	0.000

Total Length: 360.00 ft

Total Volume: 5.103 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6719

Inside

Samuel Gary Jr. & Associates, Inc.

23 16s 16w Rush KS

DST Test Number: 4

Pressure vs. Time

