

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Younger Energy Company
Well Name	Strecker 'B' 8
Doc ID	1306773

All Electric Logs Run

Dual Induction Log
Compensated Density/Neutron Log
Micro Log
Geological Report/Mud Log
LAS
STACK LAS

Form	ACO1 - Well Completion
Operator	Younger Energy Company
Well Name	Strecker 'B' 8
Doc ID	1306773

Tops

Name	Top	Datum
Tarkio Lime	2320	-567
Howard	2527	-774
Topeka	2592	-839
Heebner	2825	-1072
Toronto	2842	1089
Douglas	2857	-1104
Lansing	2892	-1139
Base KC	3128	-1375
Reagan Sand	3146	-1393
Granite Wash	3152	-1399
Granite	3174	-1421



DRILL STEM TEST REPORT

Prepared For: **YOUNGER ENERGY COM;PANY**

9415 EAST HARRY STREET SUITE 403
BUILDING 400
WICHITA, KANSAS 67207-5083

ATTN:

STRECKER B 8

Start Date: 2016.02.16 @ 04:00:00

End Date: 2016.02.16 @ 19:56:00

Job Ticket #: 01211 DST #: 1

Eagle Testers
1309 Patton Road Great Bend, Kansas 67530
620-791-7394

Printed: 2016.02.16 @ 20:27:34

YOUNGER ENERGY COM;PANY

STRECKER B 8

DST # 1

TORONTO

2016.02.16



DRILL STEM TEST REPORT

YOUNGER ENERGY COMPANY

9415 EAST HARRY STREET SUITE 403 BUILDING
400
WICHITA, KANSAS 67207-5083
ATTN:

STRECKER B 8

Job Ticket: 01211

DST#: 1

Test Start: 2016.02.16 @ 04:00:00

GENERAL INFORMATION:

Formation: **TORONTO**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:30:00

Time Test Ended: 19:56:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: 2822.00 ft (KB) To 2880.00 ft (KB) (TVD)

Reference Elevations: 1753.00 ft (KB)

Total Depth: 2880.00 ft (KB) (TVD)

1745.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 9119

Press@RunDepth: 128.32 psia @ ft (KB)

Capacity: psia

Start Date: 2016.02.16

End Date: 2016.02.16

Last Calib.: 1899.12.30

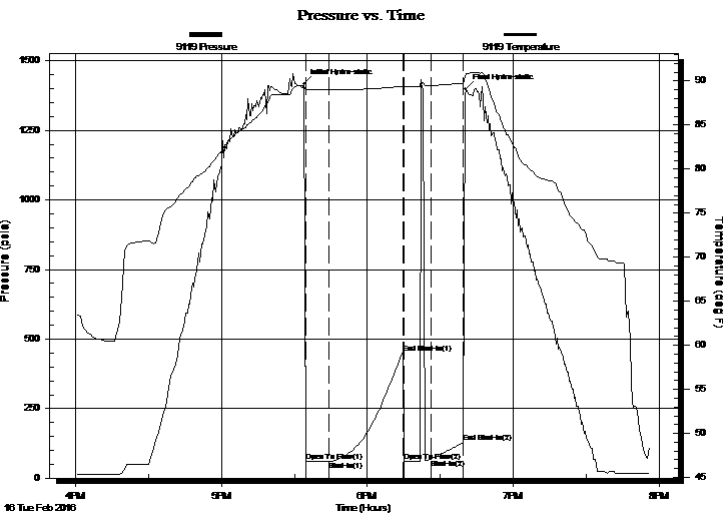
Start Time: 16:00:00

End Time: 19:56:00

Time On Btm: 2016.02.16 @ 17:34:00

Time Off Btm: 2016.02.16 @ 18:40:30

TEST COMMENT: 1ST OPENING 10 MINUTES WEAK SURFACE BLOW FOR 8 MINUTES AND DIED
1ST SHUT-IN 30 MINUTES-NO BLOW BACK
2ND OPENING 10 MINUTES-NO BLOW-FLUSHED TOOL=GOOD SURGE-NO HELP
2ND SHUT-IN 10 MINUTES NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1417.99	89.45	Initial Hydro-static
1	58.94	89.07	Open To Flow (1)
10	59.24	88.99	Shut-In(1)
41	451.37	89.39	End Shut-In(1)
41	61.70	89.30	Open To Flow (2)
52	68.88	89.49	Shut-In(2)
66	128.32	89.76	End Shut-In(2)
67	1399.76	90.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OIL SPECKED MUD	0.14

Gas Rates

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



DRILL STEM TEST REPORT

YOUNGER ENERGY COMPANY

9415 EAST HARRY STREET SUITE 403 BUILDING
400
WICHITA, KANSAS 67207-5083
ATTN:

STRECKER B 8

Job Ticket: 01211

DST#: 1

Test Start: 2016.02.16 @ 04:00:00

GENERAL INFORMATION:

Formation: **TORONTO**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:30:00

Time Test Ended: 19:56:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: 2822.00 ft (KB) To 2880.00 ft (KB) (TVD)

Reference Elevations: 1753.00 ft (KB)

Total Depth: 2880.00 ft (KB) (TVD)

1745.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 9139

Press@RunDepth: 128.32 psia @ ft (KB)

Capacity: psia

Start Date: 2016.02.16

End Date: 2016.02.16

Last Calib.: 1899.12.30

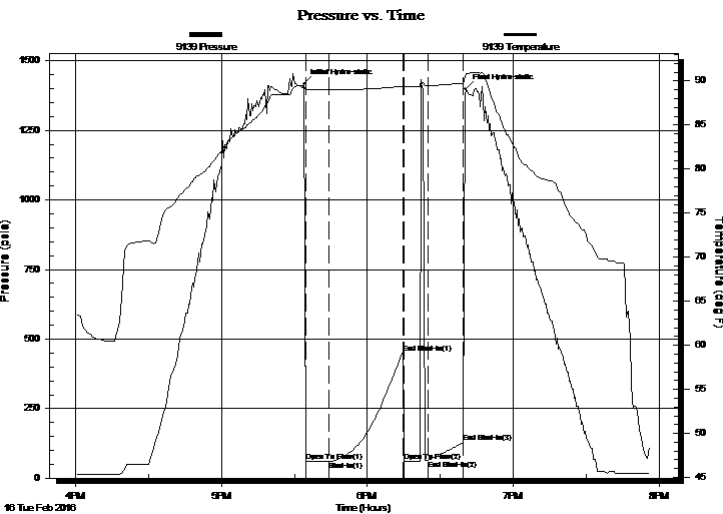
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End Time: 19:56:00

Time On Btm: 2016.02.16 @ 17:34:00

Time Off Btm: 2016.02.16 @ 18:40:30

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1ST SHUT-IN 30 MINUTES-NO BLOW BACK
2ND OPENING 10 MINUTES-NO BLOW-FLUSHED TOOL=GOOD SURGE-NO HELP
2ND SHUT-IN 10 MINUTES NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1417.99	89.45	Initial Hydro-static
1	58.94	89.07	Open To Flow (1)
10	59.24	88.99	Shut-In(1)
41	451.37	89.39	End Shut-In(1)
41	61.70	89.30	Open To Flow (2)
51	65.08	89.48	End Shut-In(2)
66	128.32	89.76	End Shut-In(3)
67	1399.76	90.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OIL SPECKED MUD	0.14

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

YOUNGER ENERGY COMPANY

9415 EAST HARRY STREET SUITE 403 BUILDING
400
WICHITA, KANSAS 67207-5083
ATTN:

STRECKER B 8

Job Ticket: 01211

DST#: 1

Test Start: 2016.02.16 @ 04:00:00

Tool Information

Drill Pipe:	Length: 2811.00 ft	Diameter: 3.80 inches	Volume: 39.43 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: 66000.00 lb
			<u>Total Volume: 39.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	2822.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.14 ft			
Tool Length:	86.14 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			2798.00	
Hydraulic tool	5.00			2803.00	
Jars	7.00			2810.00	
Safety Joint	2.00		Fluid	2812.00	
Top Packer	5.00			2817.00	
Packer	5.00			2822.00	29.00 Bottom Of Top Packer
Anchor	5.00			2827.00	
Change Over Sub	0.75			2827.75	
Drill Pipe	30.64			2858.39	
Change Over Sub	0.75			2859.14	
Anchor	15.00			2874.14	
Recorder	0.00	9119	Inside	2874.14	
Recorder	0.00	9139	Outside	2874.14	
Bullnose	5.00			2879.14	57.14 Anchor Tool

Total Tool Length: 86.14



DRILL STEM TEST REPORT

FLUID SUMMARY

YOUNGER ENERGY COMPANY

9415 EAST HARRY STREET SUITE 403 BUILDING
400
WICHITA, KANSAS 67207-5083
ATTN:

STRECKER B 8

Job Ticket: 01211

DST#: 1

Test Start: 2016.02.16 @ 04:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: sec/qt
Water Loss: 8.80 in³
Resistivity: ohm.m
Salinity: 5000.00 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
10.00	OIL SPECKED MUD	0.140

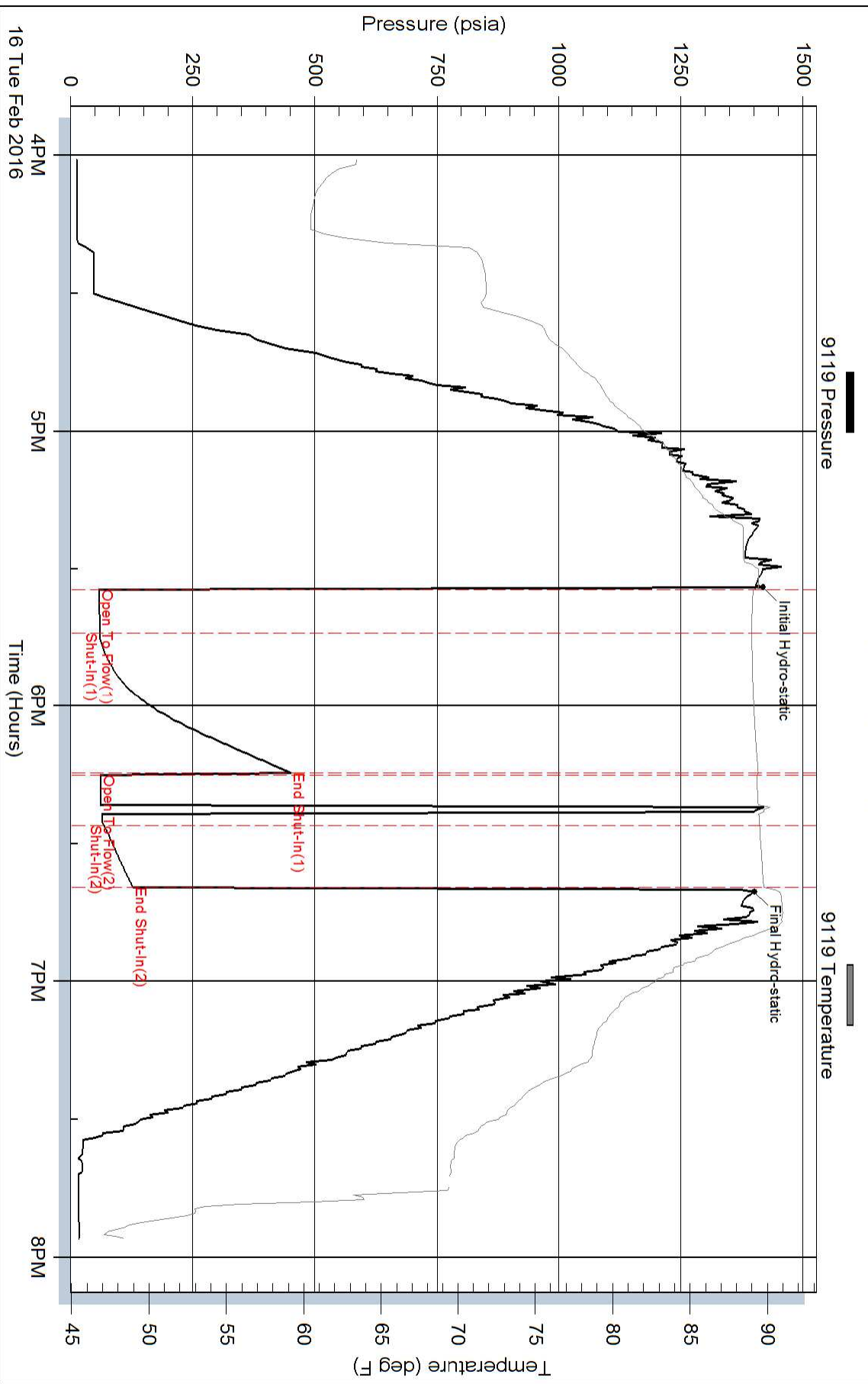
Total Length: 10.00 ft Total Volume: 0.140 bbl

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

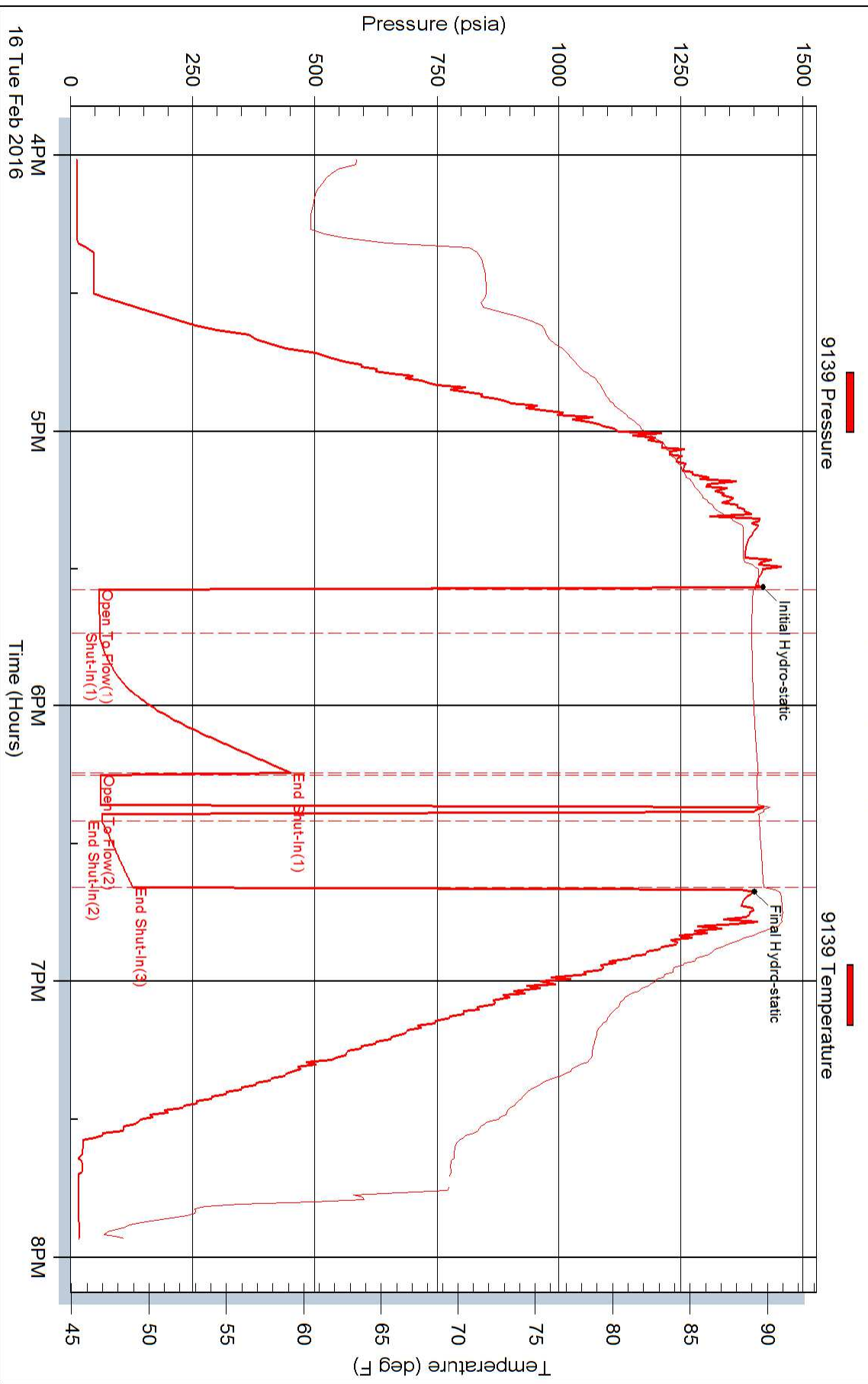
Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **YOUNGER ENERGY COM;PANY**

9415 EAST HARRY STREET SUITE 403
BUILDING 400
WICHITA, KANSAS 67207-5083

ATTN:

STRECKER B 8

Start Date: 2016.02.17 @ 04:00:00

End Date: 2016.02.17 @ 10:03:00

Job Ticket #: 01212 DST #: 2

Eagle Testers
1309 Patton Road Great Bend, Kansas 67530
620-791-7394

Printed: 2016.02.17 @ 10:17:50



DRILL STEM TEST REPORT

YOUNGER ENERGY COMPANY

9415 EAST HARRY STREET SUITE 403 BUILDING
400
WICHITA, KANSAS 67207-5083
ATTN:

STRECKER B 8

Job Ticket: 01212

DST#: 2

Test Start: 2016.02.17 @ 04:00:00

GENERAL INFORMATION:

Formation: **KANSAS CITY**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:58:00

Time Test Ended: 10:03:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIGF

Unit No: 1-76

Interval: 2898.00 ft (KB) To 2936.00 ft (KB) (TVD)

Reference Elevations: 1753.00 ft (KB)

Total Depth: 2936.00 ft (KB) (TVD)

1745.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 9119

Press@RunDepth: 180.68 psia @ ft (KB)

Capacity: psia

Start Date: 2016.02.17

End Date: 2016.02.17

Last Calib.: 1899.12.30

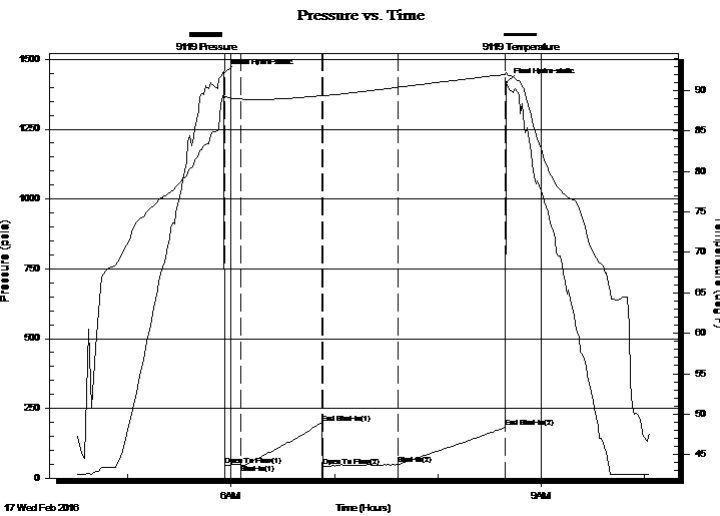
Start Time: 04:30:00

End Time: 10:03:00

Time On Btm: 2016.02.17 @ 05:56:00

Time Off Btm: 2016.02.17 @ 08:40:00

TEST COMMENT: 1ST OPENING 10 MINUTES-WEAK BUILDING BLOW BUILT TO 1 1/2 INCHES INTO THE WATER
1ST SHUT-IN 45 MINUTES-NO BLOW BACK
2ND OPENING 45 MINUTES-WEAK BUILDING BLOW BUILT BOTTOM OF THE BUCKET IN 28 MINUTE
2ND SHUT-IN 60 MINUTES-NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1450.42	89.61	Initial Hydro-static
1	45.85	89.08	Open To Flow (1)
10	48.55	88.93	Shut-In(1)
57	196.65	89.36	End Shut-In(1)
58	41.36	89.34	Open To Flow (2)
101	48.49	90.38	Shut-In(2)
163	180.68	91.96	End Shut-In(2)
164	1416.26	92.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	180 feet of gas in the pipe	0.00
15.00	slightly oil cut mud 10 oil 90 mud	0.21

Gas Rates

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



DRILL STEM TEST REPORT

YOUNGER ENERGY COMPANY

9415 EAST HARRY STREET SUITE 403 BUILDING
400
WICHITA, KANSAS 67207-5083
ATTN:

STRECKER B 8

Job Ticket: 01212

DST#: 2

Test Start: 2016.02.17 @ 04:00:00

GENERAL INFORMATION:

Formation: **KANSAS CITY**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:58:00

Time Test Ended: 10:03:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIGF

Unit No: 1-76

Interval: 2898.00 ft (KB) To 2936.00 ft (KB) (TVD)

Reference Elevations: 1753.00 ft (KB)

Total Depth: 2936.00 ft (KB) (TVD)

1745.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 9139

Press@RunDepth: 179.50 psia @ ft (KB)

Capacity: psia

Start Date: 2016.02.17

End Date: 2016.02.17

Last Calib.: 1899.12.30

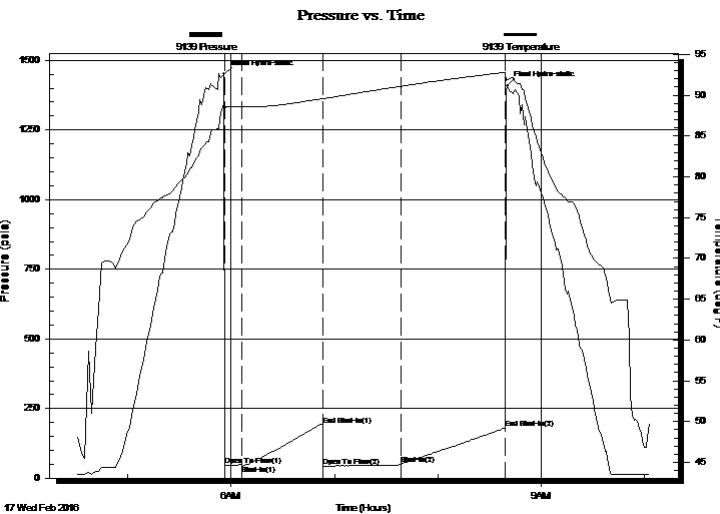
Start Time: 04:30:00

End Time: 10:03:00

Time On Btm: 2016.02.17 @ 05:56:00

Time Off Btm: 2016.02.17 @ 08:40:30

TEST COMMENT: 1ST OPENING 10 MINUTES-WEAK BUILDING BLOW BUILT TO 1 1/2 INCHES INTO THE WATER
1ST SHUT-IN 45 MINUTES-NO BLOW BACK
2ND OPENING 45 MINUTES-WEAK BUILDING BLOW BUILT BOTTOM OF THE BUCKET IN 28 MINUTE
2ND SHUT-IN 60 MINUTES-NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1449.53	88.91	Initial Hydro-static
1	45.65	88.11	Open To Flow (1)
10	46.89	88.58	Shut-In(1)
57	191.85	89.59	End Shut-In(1)
58	43.21	89.57	Open To Flow (2)
103	50.44	91.10	Shut-In(2)
163	179.50	92.80	End Shut-In(2)
165	1408.57	91.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	180 feet of gas in the pipe	0.00
15.00	slightly oil cut mud 10 oil 90 mud	0.21

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

YOUNGER ENERGY COMPANY

9415 EAST HARRY STREET SUITE 403 BUILDING
400
WICHITA, KANSAS 67207-5083
ATTN:

STRECKER B 8

Job Ticket: 01212

DST#: 2

Test Start: 2016.02.17 @ 04:00:00

Tool Information

Drill Pipe:	Length: 2876.00 ft	Diameter: 3.80 inches	Volume: 40.34 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: 58000.00 lb
			<u>Total Volume: 40.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	2898.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	67.00 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			2874.00	
Hydraulic tool	5.00			2879.00	
Jars	7.00			2886.00	
Safety Joint	2.00		Fluid	2888.00	
Top Packer	5.00			2893.00	
Packer	5.00			2898.00	29.00 Bottom Of Top Packer
Anchor	33.00			2931.00	
Recorder	0.00	9119	Inside	2931.00	
Recorder	0.00	9139	Outside	2931.00	
Bullnose	5.00			2936.00	38.00 Anchor Tool
Total Tool Length:	67.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

YOUNGER ENERGY COMPANY

9415 EAST HARRY STREET SUITE 403 BUILDING
400
WICHITA, KANSAS 67207-5083
ATTN:

STRECKER B 8

Job Ticket: 01212

DST#: 2

Test Start: 2016.02.17 @ 04:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 5000.00 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
0.00	180 feet of gas in the pipe	0.000
15.00	slightly oil cut mud 10 oil 90 mud	0.210

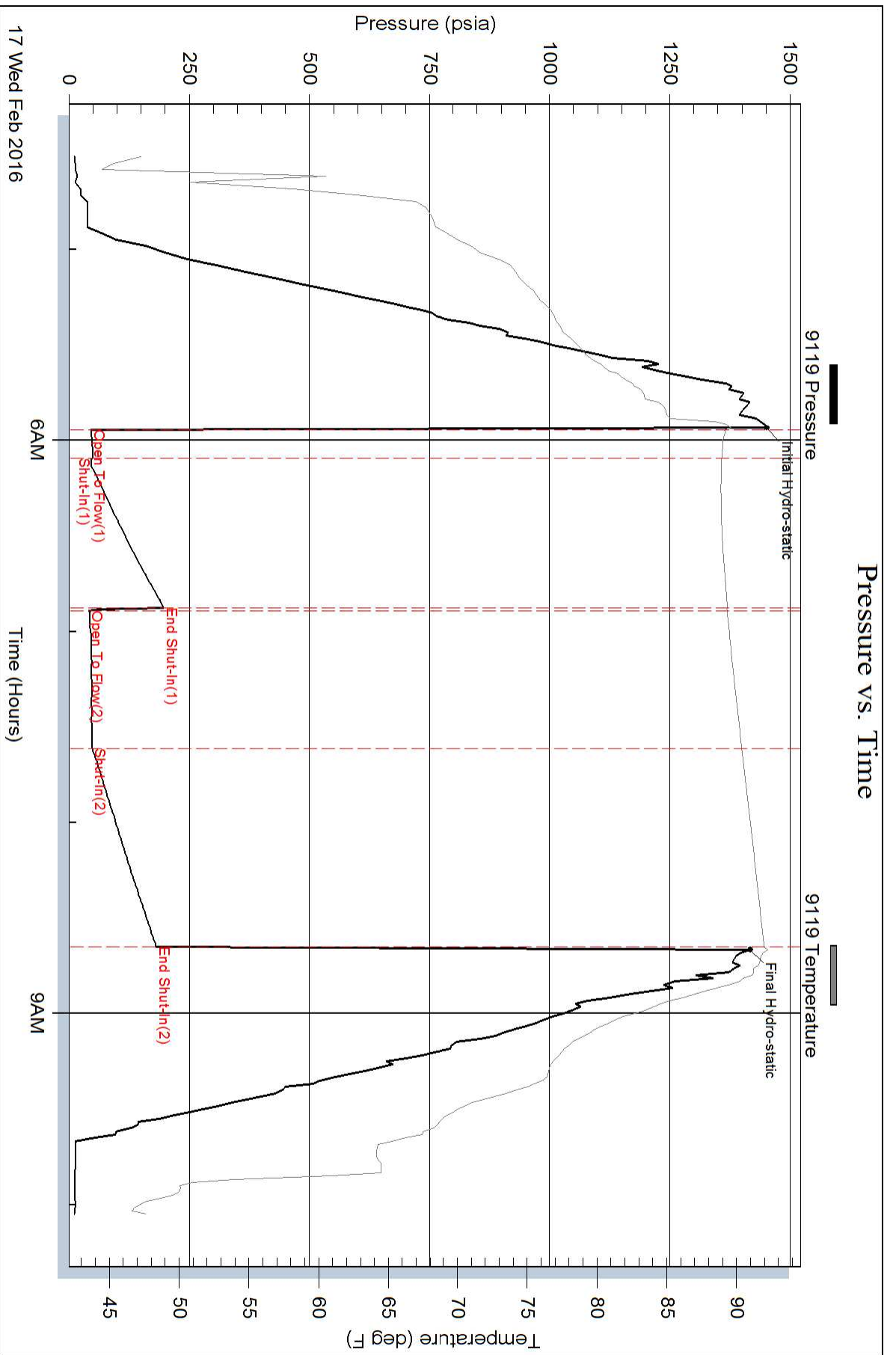
Total Length: 15.00 ft Total Volume: 0.210 bbl

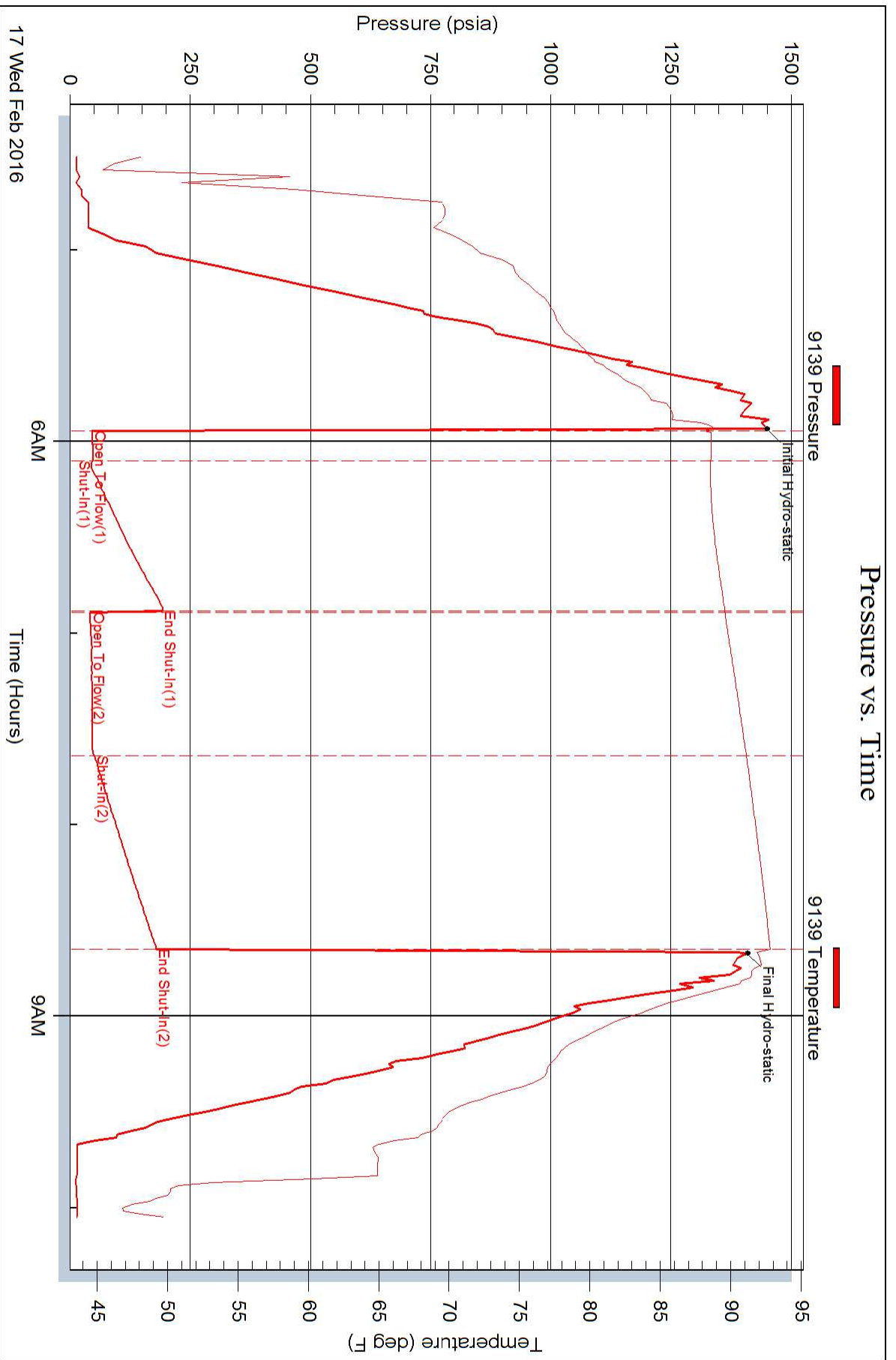
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **YOUNGER ENERGY COM;PANY**

9415 EAST HARRY STREET SUITE 403
BUILDING 400
WICHITA, KANSAS 67207-5083

ATTN:

STRECKER B 8

Start Date: 2016.02.18 @ 14:02:00

End Date: 2016.02.18 @ 20:08:00

Job Ticket #: 1213 DST #: 3

Eagle Testers
1309 Patton Road Great Bend, Kansas 67530
620-791-7394

Printed: 2016.02.18 @ 20:37:50

YOUNGER ENERGY COM;PANY

STRECKER B 8

DST # 3

REAGAN

2016.02.18



DRILL STEM TEST REPORT

YOUNGER ENERGY COMPANY

9415 EAST HARRY STREET SUITE 403 BUILDING
400
WICHITA, KANSAS 67207-5083
ATTN:

STRECKER B 8

Job Ticket: 1213

DST#: 3

Test Start: 2016.02.18 @ 14:02:00

GENERAL INFORMATION:

Formation: **REAGAN**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:42:00

Time Test Ended: 20:08:00

Test Type: Conventional Straddle (Initial)

Tester: GENE BUDIG

Unit No: 1=76

Interval: 3120.00 ft (KB) To 3154.00 ft (KB) (TVD)

Reference Elevations: 1753.00 ft (KB)

Total Depth: 3204.00 ft (KB) (TVD)

1745.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 9139

Press@RunDepth: psia @ ft (KB)

Capacity: psia

Start Date: 2016.02.18

End Date: 2016.02.18

Last Calib.: 1899.12.30

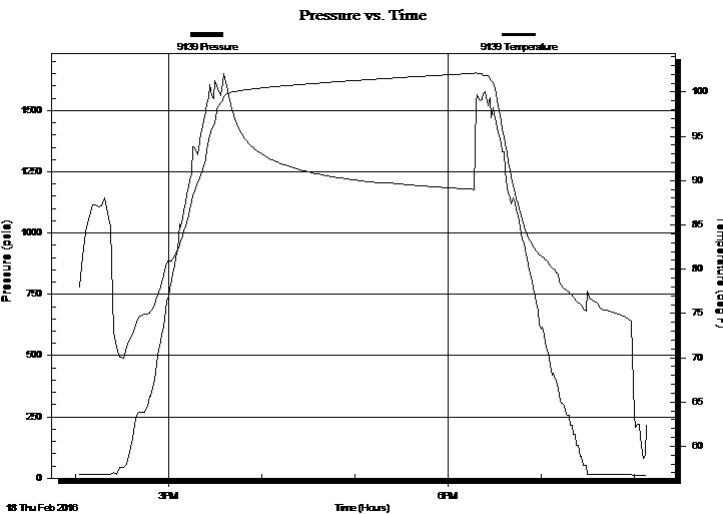
Start Time: 14:02:00

End Time: 20:08:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 1ST OPENING 10 MINUTES-WEAK BUILDING BLOW BUILT TO BOTTOM OF THE BUCKET IN 8 MINUTES
1ST SHUT-IN 45 MINUTES-NO BLOW BACK
2ND OPENING 45 MINUTES-WEAK BUILDING BLOW BUILT TO BOTTOM OF THE BUCKET IN 8 MINUTES
2N SHUT-IN 60 MINUTES-NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
0.00	60 feet of gas in the pipe	0.00
60.00	gassy slightlyu oil cut muddy w ate	0.84
0.00	50 gas 5 oil 20 mud 25 w ater	0.00
60.00	slightly oil cut muddy w ater	0.84
0.00	5 oil 35 mud 60 w ater	0.00
180.00	slightly muddy w ater w ith a trace of oil	2.52

Gas Rates

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



DRILL STEM TEST REPORT

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9415 EAST HARRY STREET SUITE 403 BUILDING
400
WICHITA, KANSAS 67207-5083
ATTN:

STRECKER B 8

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Time Test Ended: 20:08:00

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Tester: GENE BUDIG

Unit No: 1=76

Interval: 3120.00 ft (KB) To 3154.00 ft (KB) (TVD)

Reference Elevations: 1753.00 ft (KB)

Total Depth: 3204.00 ft (KB) (TVD)

1745.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 9119

Press@RunDepth: 1555.96 psia @ ft (KB)

Capacity: psia

Start Date: 2016.02.18

End Date: 2016.02.18

Last Calib.: 1899.12.30

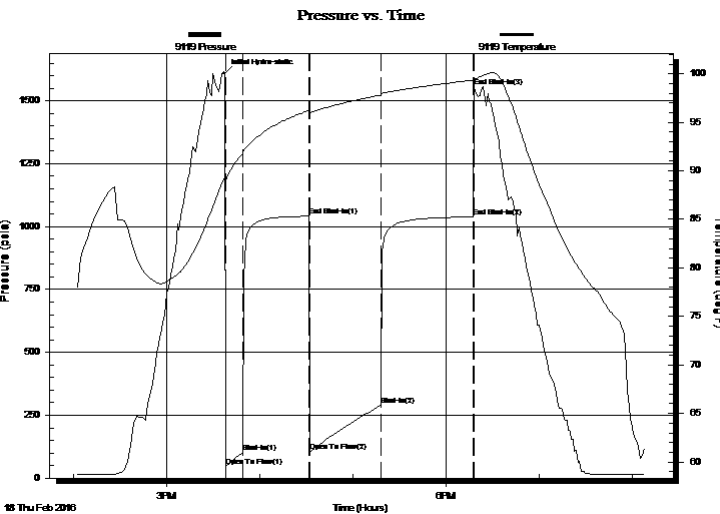
Start Time: 14:02:00

End Time: 20:08:30

Time On Btm: 2016.02.18 @ 15:37:30

Time Off Btm:

TEST COMMENT: 1ST OPENING 10 MINUTES-WEAK BUILDING BLOW BUILT TO BOTTOM OF THE BUCKET IN 8 MINUTES
1ST SHUT-IN 45 MINUTES-NO BLOW BACK
2ND OPENING 45 MINUTES-WEAK BUILDING BLOW BUILT TO BOTTOM OF THE BUCKET IN 8 MINUTES
2N SHUT-IN 60 MINUTES-NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1609.63	89.28	Initial Hydro-static
1	47.03	88.84	Open To Flow (1)
12	101.40	91.87	Shut-In(1)
55	1041.64	96.22	End Shut-In(1)
55	106.04	95.81	Open To Flow (2)
101	288.16	97.79	Shut-In(2)
160	1038.92	99.34	End Shut-In(2)
161	1555.96	99.47	End Shut-In(3)

Recovery

Length (ft)	Description	Volume (bbl)
0.00	60 feet of gas in the pipe	0.00
60.00	gassy slightlyu oil cut muddy w ater	0.84
0.00	50 gas 5 oil 20 mud 25 w ater	0.00
60.00	slightly oil cut muddy w ater	0.84
0.00	5 oil 35 mud 60 w ater	0.00
180.00	slightly muddy w ater w ith a trace of oil	2.52

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

YOUNGER ENERGY COMPANY

9415 EAST HARRY STREET SUITE 403 BUILDING
400
WICHITA, KANSAS 67207-5083
ATTN:

STRECKER B 8

Job Ticket: 1213

DST#: 3

Test Start: 2016.02.18 @ 14:02:00

Tool Information

Drill Pipe:	Length: 3126.00 ft	Diameter: 3.80 inches	Volume: 43.85 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: 58000.00 lb
			<u>Total Volume: 43.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3120.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	3154.00 ft			
Interval between Packers:	34.00 ft			
Tool Length:	112.72 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3101.00		
Hydraulic tool	5.00			3106.00		
Jars	7.00			3113.00		
Safety Joint	2.00		Fluid	3115.00		
Packer	5.00			3120.00	24.00	Bottom Of Top Packer
Anchor	33.00			3153.00		
Recorder	0.00		Inside	3153.00		
Blank Off Sub	1.00			3154.00		
Packer	5.00			3159.00	34.00	Tool Interval
Packer	7.00			3166.00		
Change Over Sub	0.75			3166.75		
Drill Pipe	31.22			3197.97		
Change Over Sub	0.75			3198.72		
Anchor	5.00			3203.72		
Recorder	0.00		Outside	3203.72		
Bullnose	5.00			3208.72	54.72	Bottom Packers & Anchor
Total Tool Length:	112.72					



DRILL STEM TEST REPORT

FLUID SUMMARY

YOUNGER ENERGY COMPANY

9415 EAST HARRY STREET SUITE 403 BUILDING
400
WICHITA, KANSAS 67207-5083
ATTN:

STRECKER B 8

Job Ticket: 1213

DST#: 3

Test Start: 2016.02.18 @ 14:02:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 8.80 in³
Resistivity: ohm.m
Salinity: 5000.00 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: 1400 ppm

Recovery Information

Recovery Table

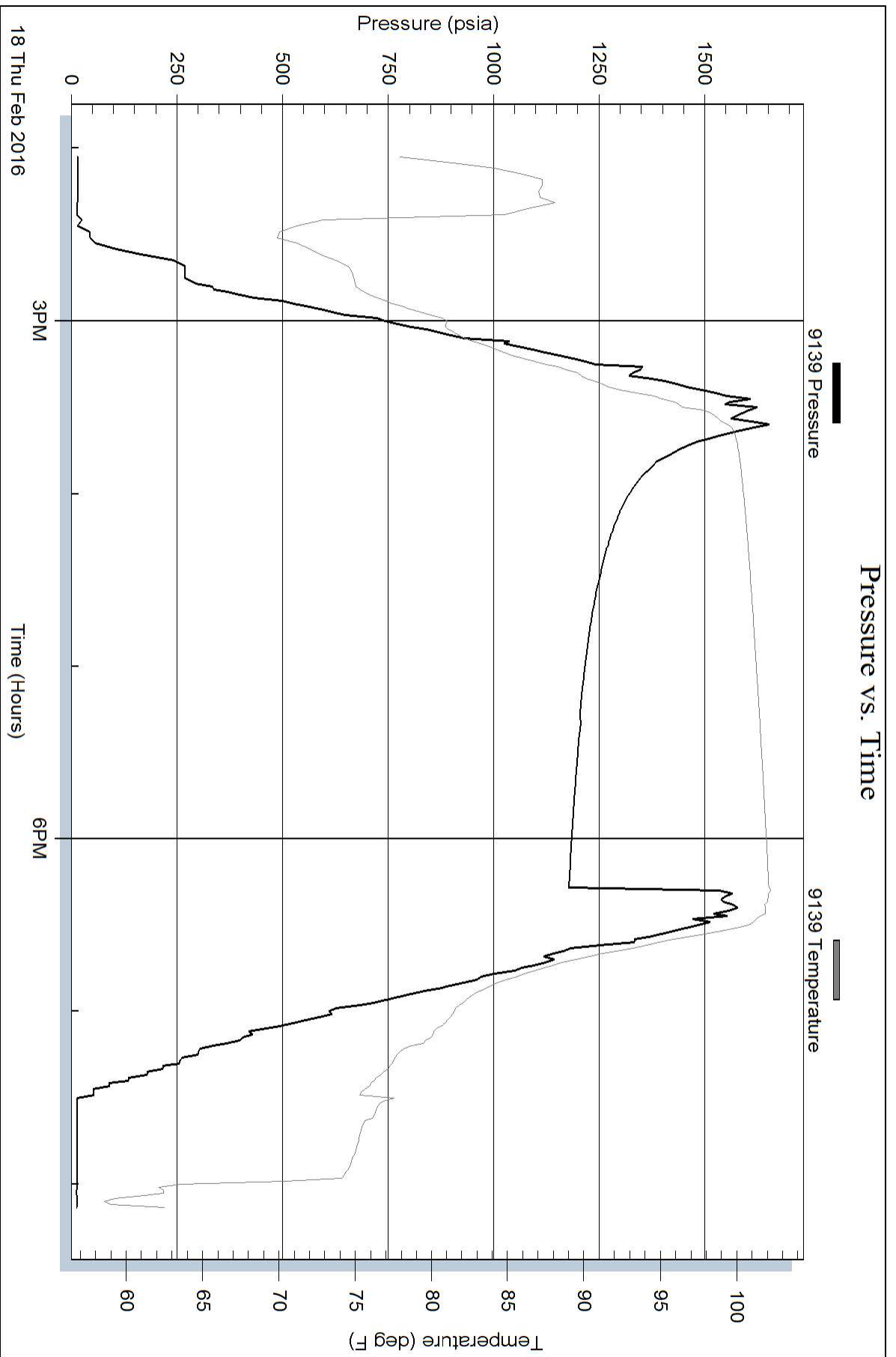
Length ft	Description	Volume bbl
0.00	60 feet of gas in the pipe	0.000
60.00	gassy slightly oil cut muddy water	0.842
0.00	50 gas 5 oil 20 mud 25 water	0.000
60.00	slightly oil cut muddy water	0.842
0.00	5 oil 35 mud 60 water	0.000
180.00	slightly muddy water with a trace of oil	2.525
0.00	6 mud 94 water	0.000
240.00	water with a trace of oil	3.367
0.00	99 water 1 mud chlorides 14000	0.000

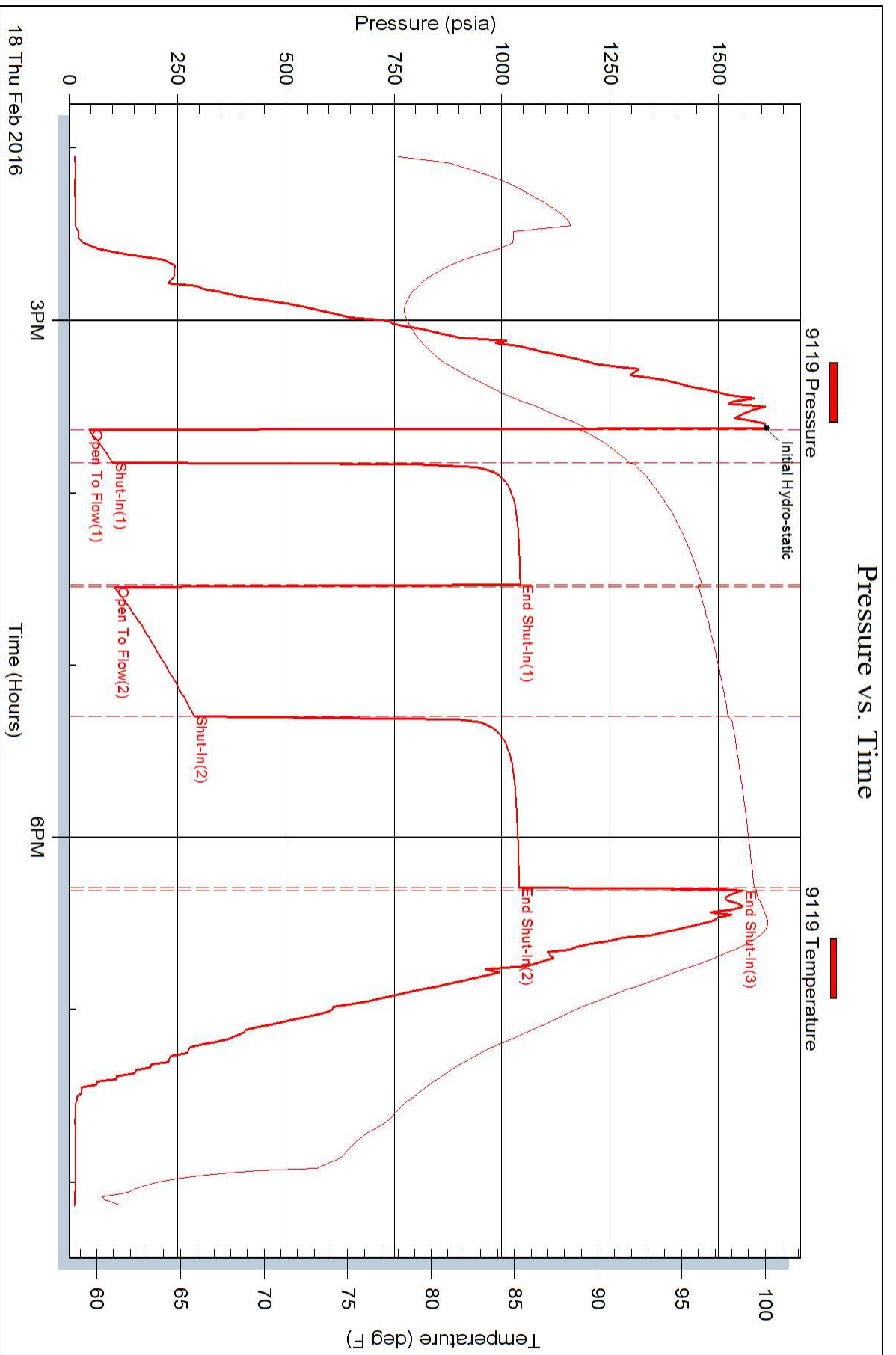
Total Length: 540.00 ft Total Volume: 7.576 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





OPERATOR

Company: Younger Energy Company
 Address: 9415 E. Harry
 Suite 403
 Wichita, KS 67207

Contact Geologist:
 Contact Phone Nbr: 316-681-2542
 Well Name: Strecker "B" #8
 Location: Sec. 36 - T14S - R14W
 API: 15-167-24044-0000
 Pool:
 State: Kansas

Field: Hall - Gurney
 Country: USA



Scale 1:240 Imperial

Well Name: Strecker "B" #8
 Surface Location: Sec. 36 - T14S - R14W
 Bottom Location:
 API: 15-167-24044-0000
 License Number: 30705
 Spud Date: 2/12/2016 Time: 1:30 PM
 Region: Russell County
 Drilling Completed: 2/18/2016 Time: 5:15 AM
 Surface Coordinates: 2310' FNL & 550' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 1745.00ft
 K.B. Elevation: 1753.00ft
 Logged Interval: 2250.00ft To: 3202.00ft
 Total Depth: 3202.00ft
 Formation: Pre-Cambrian
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude:
 Latitude:
 N/S Co-ord: 2310' FNL
 E/W Co-ord: 550' FEL

LOGGED BY

Keith Reavis
Consulting Geologist

Company: Keith Reavis, Inc.
 Address: 3420 22nd Street
 Great Bend, KS 67530

Phone Nbr: 620-617-4091
 Logged By: KLG #136

Name: Keith Reavis

CONTRACTOR

Contractor: Duke Drilling Co.
 Rig #: 2
 Rig Type: mud rotary
 Spud Date: 2/12/2016 Time: 1:30 PM
 TD Date: 2/18/2016 Time: 5:15 AM
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 1753.00ft
K.B. to Ground: 8.00ft

Ground Elevation: 1745.00ft

NOTES

Due to negative results of DST's 1, 2, and 3, along with un-favorable structural position, it was determined that the Strecker B #8 was non-commercial and should be plugged and abandoned as a dry test.

A Bloodhound gas detection system operated by Bluestem Labs was employed during the drilling of this well. ROP and gas data were imported into this mudlog. Gamma ray and caliper curves were also imported from the electrical suite.

Respectfully submitted
Keith Reavis

Younger Energy Company daily drilling report

DATE	7:00 AM DEPTH	REMARKS
02/15/2016		Geologist Keith Reavis on location @ 0500 hrs, 2106 ft, drilling ahead Tarkio, Howard, Topeka
02/16/2016	2770	drilling ahead, Topeka, King Hill, Queen Hill, Heebner, Toronto, show and gas kick in Toronto warrants test, short trip, conduct and complete DST #1, successful test, TIH w/bit, resume drilling, Douglas shale, Lansing
02/17/2016	2936	drilling ahead, Lansing, show in C zone warrants test, TOH for DST #2, conducting DST #2, complete DST #2, successful test, resume drilling Lansing
02/18/2016	3202	drilling ahead, Lansing/BKC, Reagan, Pre Cambrian, TD @ 0515 hrs, cfs and ctch, TOH, conduct and complete logging operations, straddle test Reagan sand, successful test, geologist off location @ 2000 hrs

Younger Energy Company well comparison sheet

DRILLING WELL					COMPARISON WELL				COMPARISON WELL			
Well #					Cities Service - Strecker B5				Rosel - Strecker B5			
2310' FNL & 550' FBL					C B/2 SE NE				C B/2 NE NE			
Sec 36-T14S-R14W					Sec 36-T14S-R14W				Sec 36-T14S-R14W			
1753 KB					1741 KB		Structural Relationship		1738 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Tarkio Lime	2320	-567	2320	-567	2304	-563	-4	-4	2300	-562	-5	-5
Howard	2526	-773	2527	-774	2512	-771	-2	-3	2507	-769	-4	-5
Topeka	2592	-839	2592	-839	2576	-835	-4	-4	2571	-833	-6	-6
Heebner	2825	-1072	2825	-1072	2808	-1067	-5	-5	2805	-1067	-5	-5
Toronto	2842	-1089	2842	-1089	2826	-1085	-4	-4	2822	-1084	-5	-5
Douglas	2858	-1105	2857	-1104	2842	-1101	-4	-3	2836	-1098	-7	-6
Lansing	2891	-1138	2892	-1139	2876	-1135	-3	-4	2871	-1133	-5	-6
Base KC	3125	-1372	3128	-1375	3112	-1371	-1	-4	3107	-1369	-3	-6
Reagan Sand	3145	-1392	3146	-1393	3129	-1388	-4	-5	3130	-1392	0	-1
Granite Wash	3150	-1397	3152	-1399	3135	-1394	-3	-5	3142	-1404	7	5
Granite	3173	-1420	3174	-1421								
Total Depth	3202	-1449	3204	-1451	3135	-1394	-55	-57	3162	-1424	-25	-27

COMPARISON WELL					COMPARISON WELL			
Rosel - Strecker B2					Cities Service - Strecker B4			
C W/2 W/2 NE					C S/2 NE			
Sec 36-T14S-R14W					Sec 36-T14S-R14W			
1759 KB		Structural Relationship			1744 KB		Structural Relationship	
Formation	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Tarkio Lime	2320	-561	-6	-6	2309	-565	-2	-2
Howard	2528	-769	-4	-5	2517	-773	0	-1
Topeka	2592	-833	-6	-6	2582	-838	-1	-1
Heebner	2827	-1068	-4	-4	2813	-1069	-3	-3
Toronto	2845	-1086	-3	-3	2830	-1086	-3	-3
Douglas	2859	-1100	-5	-4	2845	-1101	-4	-3
Lansing	2892	-1133	-5	-6	2882	-1138	0	-1
Base KC	3130	-1371	-1	-4	3118	-1374	2	-1
Reagan Sand	3144	-1385	-7	-8	3133	-1389	-3	-4
Granite Wash					3139	-1395	-2	-4

Granite							
Total Depth	3185	-1426	-23	-25	3139	-1395	-54

Drill Stem Test #1

	DRILL STEM TEST REPORT	
	YOUNGER ENERGY COMPANY	
9415 EAST HARRY STREET SUITE 403 BUILDING 400 WICHITA, KANSAS 67207-5083 ATTN:	STRECKER B 8	Job Ticket: 01211 DST#: 1 Test Start: 2016.02.16 @ 04:00:00

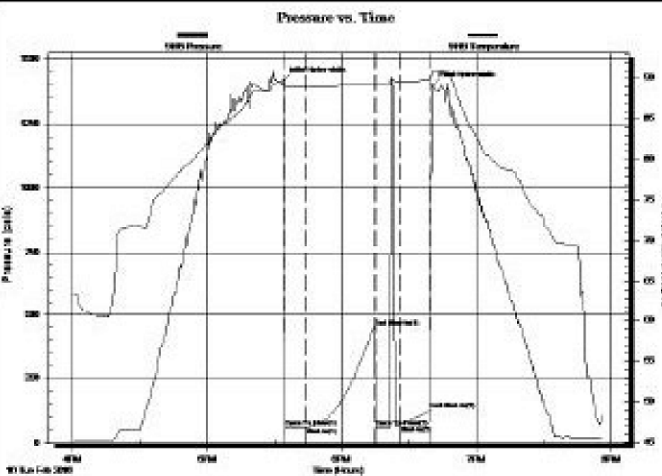
GENERAL INFORMATION:

Formation: TORONTO	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock ft (KB)	Tester: GENE BUDIG
Time Tool Opened: 05:30:00	Unit No: 1
Time Test Ended: 19:56:00	Reference Elevations: 1753.00 ft (KB)
Interval: 2822.00 ft (KB) To 2880.00 ft (KB) (TVD)	1745.00 ft (CF)
Total Depth: 2880.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.88 inches -ole Condition: Fair	

Serial #: 9119

Press@RunDepth: 128.32 psia @ ft (KB)	Capacity: psia
Start Date: 2016.02.16 End Date: 2016.02.16	Last Calib.: 1899.12.30
Start Time: 16:00:00 End Time: 19:56:00	Time On Btm: 2016.02.16 @ 17:34:00
	Time Off Btm: 2016.02.16 @ 18:40:30

TEST COMMENT: 1ST OPENING 10 MINUTES WEAK SURFACE BLOW FOR 8 MINUTES AND DIED
 1ST SHUT-IN 30 MINUTES-NO BLOW BACK
 2ND OPENING 10 MINUTES-NO BLOW-FLUSHED TOOL=GOOD SURGE-NO HELP
 2ND SHUT-IN 10 MINUTES NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1417.99	89.45	Initial Hydro-static
1	58.94	89.07	Open To Flow(1)
10	59.24	88.99	Shut-In(1)
41	451.37	89.39	End Shut-In(1)
41	61.70	89.30	Open To Flow(2)
52	68.88	89.49	Shut-In(2)
66	128.32	89.76	End Shut-In(2)
67	1399.76	90.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OIL SPECKED MUD	0.14

Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (M ddd)

Drill Stem Test #2

	DRILL STEM TEST REPORT	
	YOUNGER ENERGY COMPANY	
9415 EAST HARRY STREET SUITE 403 BUILDING 400 WICHITA, KANSAS 67207-5083 ATTN:	STRECKER B 8	



400
WICHITA, KANSAS 67207-5083
ATTN:

Job Ticket: 01212 DST#: 2
Test Start: 2016.02.17 @ 04:00:00

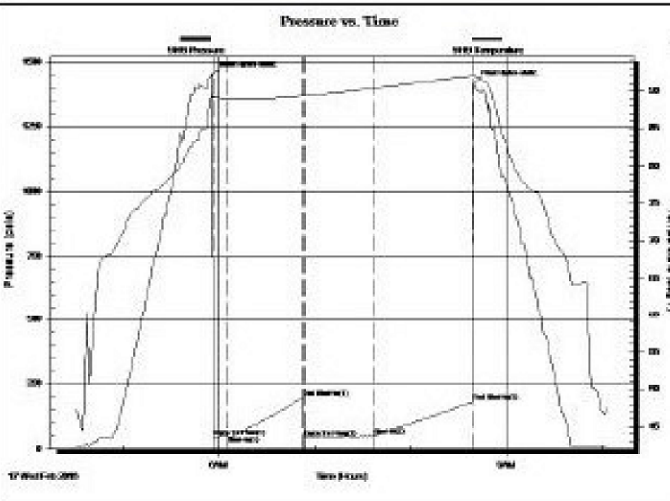
GENERAL INFORMATION:

Formation: **KANSAS CITY**
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 05:58:00
 Time Test Ended: 10:03:00
 Interval: **2898.00 ft (KB) To 2936.00 ft (KB) (TVD)**
 Total Depth: **2936.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** - hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: **GENE BUDIG**
 Unit No: **1-76**
 Reference Elevations: **1753.00 ft (KB)**
1745.00 ft (CF)
 KB to GR/CF: **8.00 ft**

Serial #: 9119

Press@RunDepth: **180.68 psia @** ft (KB) Capacity: psia
 Start Date: **2016.02.17** End Date: **2016.02.17** Last Calib.: **1899.12.30**
 Start Time: **04:30:00** End Time: **10:03:00** Time On Btm: **2016.02.17 @ 05:56:00**
 Time Off Btm: **2016.02.17 @ 08:40:00**

TEST COMMENT: 1ST OPENING 10 MINUTES-WEAK BUILDING BLOW BUILT TO 1 1/2 INCHES INTO THE WATER
 1ST SHUT-IN 45 MINUTES-NO BLOW BACK
 2ND OPENING 45 MINUTES-WEAK BUILDING BLOW BUILT BOTTOM OF THE BUCKET IN 28 MINUTE
 2ND SHUT-IN 60 MINUTES-NO BLOW BACK



PRESSURE SUMMARY

Time (Mn.)	Pressure (psia)	Temp (deg F)	Annotation
0	1450.42	89.61	Initial Hydro-static
1	45.85	89.08	Open To Flow (1)
10	48.55	88.93	Shut-In (1)
57	196.65	89.36	End Shut-In (1)
58	41.36	89.34	Open To Flow (2)
101	48.49	90.38	Shut-In (2)
163	180.68	91.96	End Shut-In (2)
164	1416.26	92.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	180 feet of gas in the pipe	0.00
15.00	slightly oil cut mud 10 oil 90 mud	0.21

Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (M dft)

Drill Stem Test #3



DRILL STEM TEST REPORT

YOUNGER ENERGY COMPANY

9415 EAST HARRY STREET SUITE 403 BUILDING
 400
 WICHITA, KANSAS 67207-5083
 ATTN:

STRECKER B 8
 Job Ticket: 1213 DST#: 3
 Test Start: 2016.02.18 @ 14:02:00

GENERAL INFORMATION:

Formation: **REAGAN**
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 15:42:00
 Time Test Ended: 20:08:00
 Interval: **3120.00 ft (KB) To 3154.00 ft (KB) (TVD)**
 Total Depth: **3154.00 ft (KB) (TVD)**
 Test Type: Conventional Straddle (Initial)
 Tester: **GENE BUDIG**
 Unit No: **1-76**
 Reference Elevations: **1753.00 ft (KB)**
1745.00 ft (CF)

Total Depth: 3204.00 ft (KB) (IVD)

Hole Diameter: 7.88 inches - hole Condition: Fair

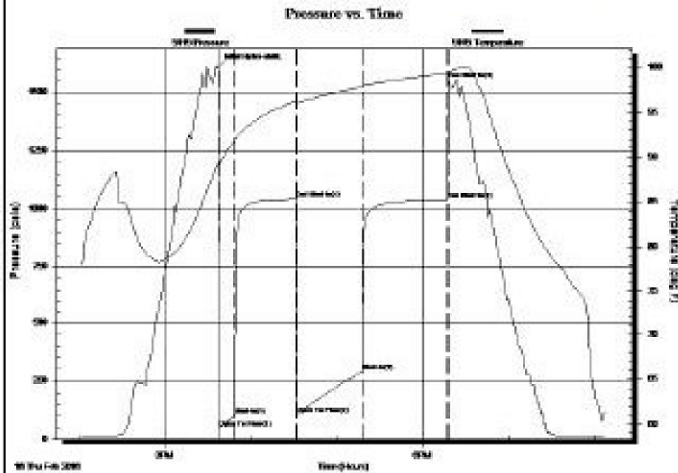
KB to GR/CF:

1745.00 ft (CF) 8.00 ft

Serial #: 9119

Press@RunDepth: 1555.96 psia @ ft (KB) Capacity: psia
 Start Date: 2016.02.18 End Date: 2016.02.18 Last Calib.: 1899.12.30
 Start Time: 14:02:00 End Time: 20:08:30 Time On Btm: 2016.02.18 @ 15:37:30
 Time Off Btm:

TEST COMMENT: 1ST OPENING 10 MINUTES-WEAK BUILDING BLOW BUILT TO BOTTTOM OF THE BUCKET IN 8 MINUTES
 1ST SHUT-IN 45 MINUTES-NO BLOW BACK
 2ND OPENING 45 MINUTES-WEAK BUILDING BLOW BUILT TO BOTTOM OF THE BUCKET IN 8 MINUTES
 2N SHUT-IN 60 MINUTES-NO BLOW BACK



PRESSURE SUMMARY

Time (Mn.)	Pressure (psia)	Temp (deg F)	Annotation
0	1609.63	89.28	Initial Hydro-static
1	47.03	88.84	Open To Flow(1)
12	101.40	91.87	Shut-In(1)
55	1041.64	96.22	End Shut-In(1)
55	106.04	95.81	Open To Flow(2)
101	288.16	97.79	Shut-In(2)
160	1038.92	99.34	End Shut-In(2)
161	1555.96	99.47	End Shut-In(3)

Recovery

Length (ft)	Description	Volume (tbi)
0.00	60 feet of gas in the pipe	0.00
60.00	gassy slightly oil cut muddy water	0.84
0.00	50 gas 5 oil 20 mud 25 water	0.00
60.00	slightly oil cut muddy water	0.84
0.00	5 oil 35 mud 60 water	0.00
180.00	slightly muddy water with a trace of oil	2.52

Gas Rates

Choke (Inches)	Pressure (psia)	Gas Rate (M d/d)

ROCK TYPES

Dolsec	Lmst fw7>	Carbon Sh	Siltst	Qtz Cryst
sdy lmsd	shale, grn	shale, red	Igne	
Lmst fw<7	shale, gry	Ss	Brec	

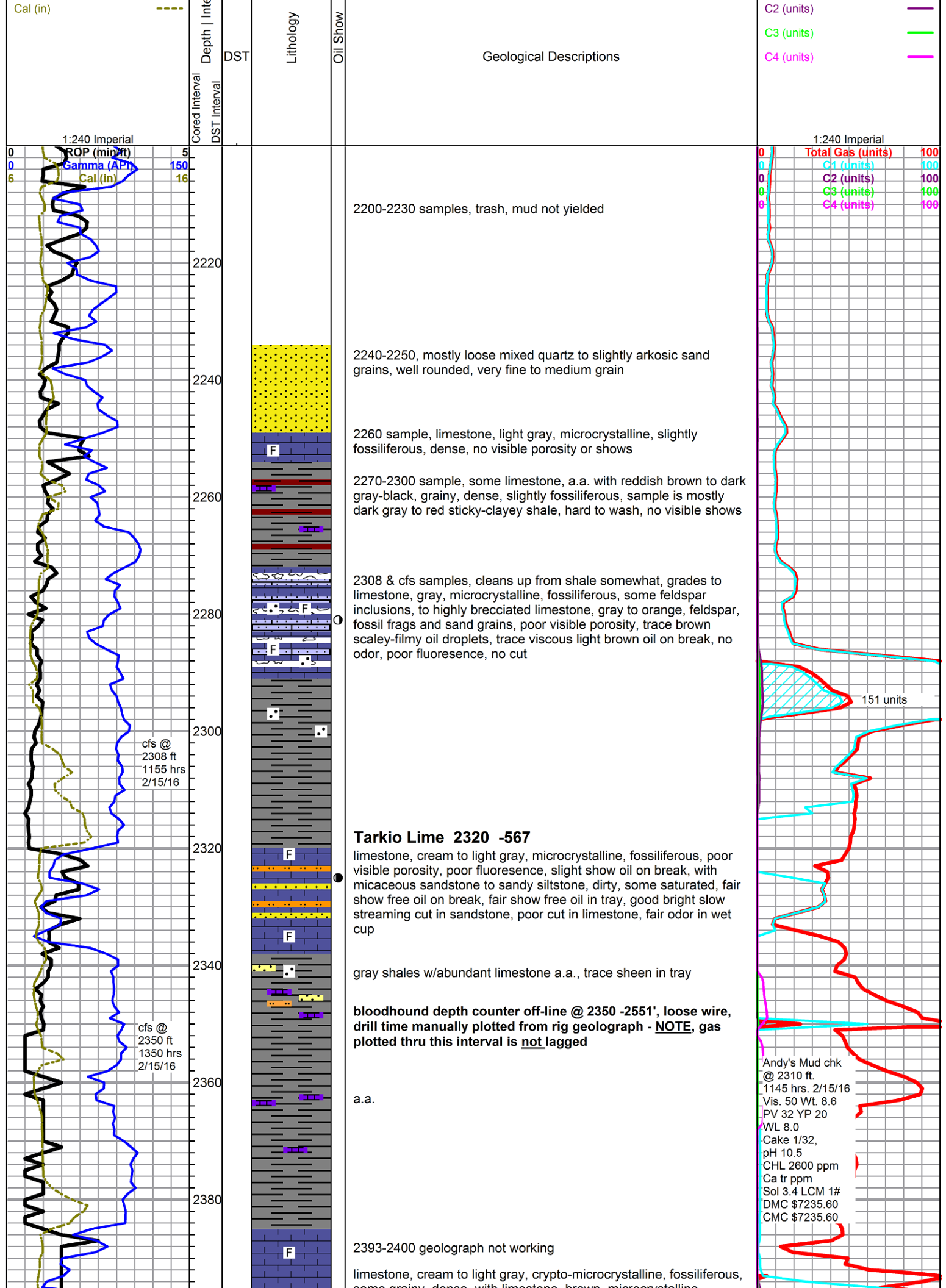
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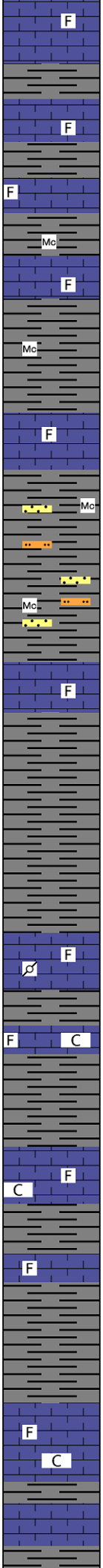
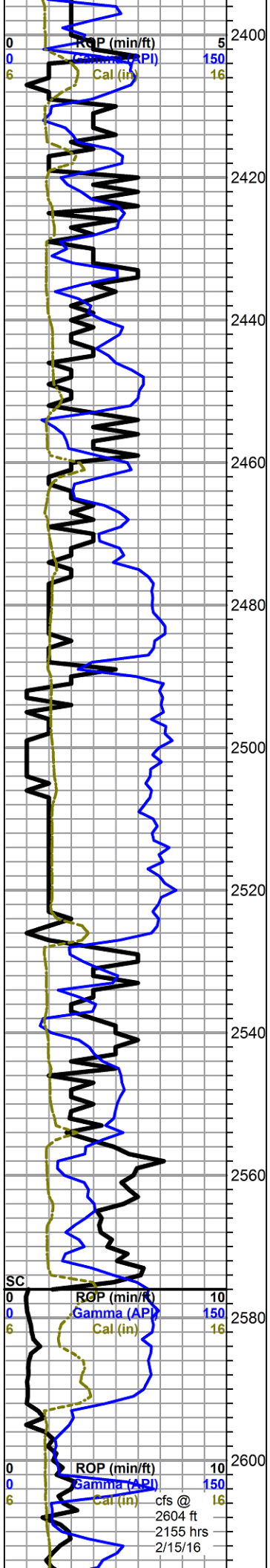
MINERAL ▲ Chert, dark • Sandy Mc Mica	FOSSIL ∩ Bioclastic or Fragments F Fossils < 20% ∅ Oolite ∅ Pellets ∅ Oomoldic	STRINGER ■ Limestone ● Sandstone ● Siltstone ■ Shale ■ green shale ■ red shale	TEXTURE C Chalky L Lithogr
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OTHER SYMBOLS

Oil Show ● Good Show ● Fair Show ○ Poor Show ○ Spotted or Trace ○ Questionable Stn D Dead Oil Stn ■ Fluorescence * Gas	DST ■ DST Int ■ DST alt ■ Core ■ tail pipe
---	---

Curve Track #1						TG, C1 - C5
ROP (min/ft)	—					Total Gas (units) —
Gamma (API)	—					C1 (units) —





some grainy, dense, with limestone, brown, microcrystalline, fossiliferous, dense, no shows

gray shales, micaceous in part, with some micaceous siltstone, with limestones, cream to gray, some mottled, mixed fossiliferous, mostly dense, no shows

a.a.

marked increase in siltstone with dirty micaceous silty sandstones

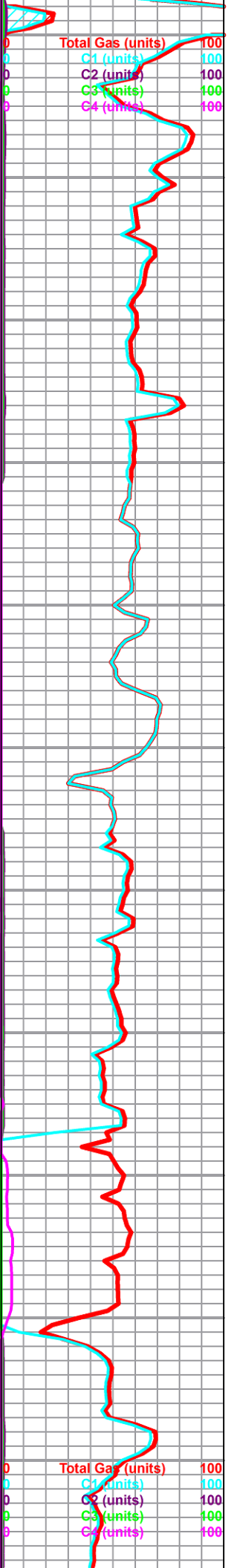
gray shales

Howard 2526 -773
limestone, brown to gray, microcrystalline, fossiliferous, some pelletal, grainy to gritty, some large clasts, poor visible porosity, with limestone, light gray to cream, cryptocrystalline, fossiliferous, dense to chalky, no shows, scattered light fluorescence

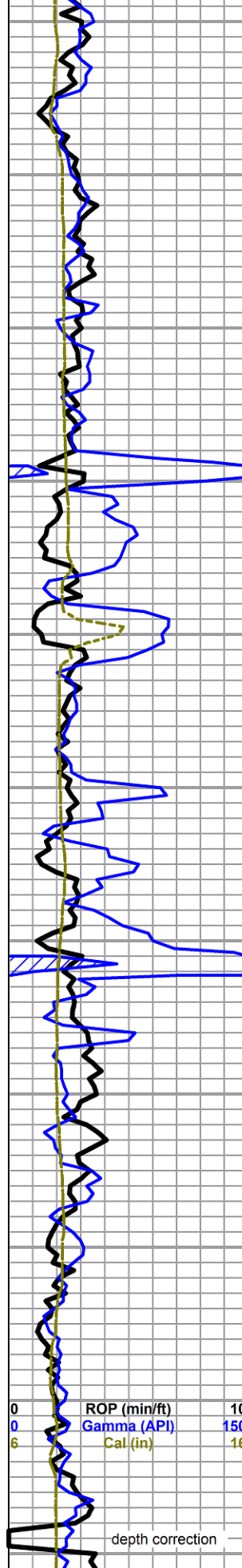
Bloodhound depth counter back on line @ 2551', now importing electronic drill time and lagged gas

gray and cream limestones a.a., brown limestone drops out

Topeka 2592 -839
limestone, gray to light gray, some mottled, fossiliferous, trace pellets, dense to soft chalky weathered, poor visible porosity, some chalk, no shows

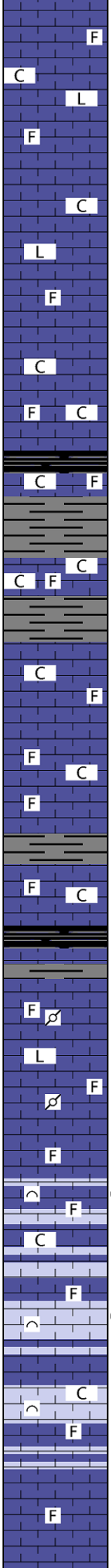


2620
2640
2660
2680
2700
2720
2740
2760
2780
2800
2820



0 ROP (min/ft) 10
0 Gamma (API) 150
6 Cal (in) 16

depth correction



limestone, cream to light gray, micro-cryptocrystalline, fossiliferous, chalky in part, limestone, dark gray, cryptocrystalline, lithographic to fossiliferous, dense, some arenaceous, no shows

as above, darker limestones marked decrease, increase chalkiness

King Hill Shale

shale, black to brown carbonaceous
limestone, mixed cream to gray, abundant chalk in samples

limestones, mixed non-descript fossiliferous, moderate chalk in samples, no shows

as above

Queen Hill Shale

shale, black carbonaceous
limestone, gray, some mottled, micro-cryptocrystalline, fossiliferous to pelletal, with limestone, cream to light gray, sub-lithographic, dense, no shows

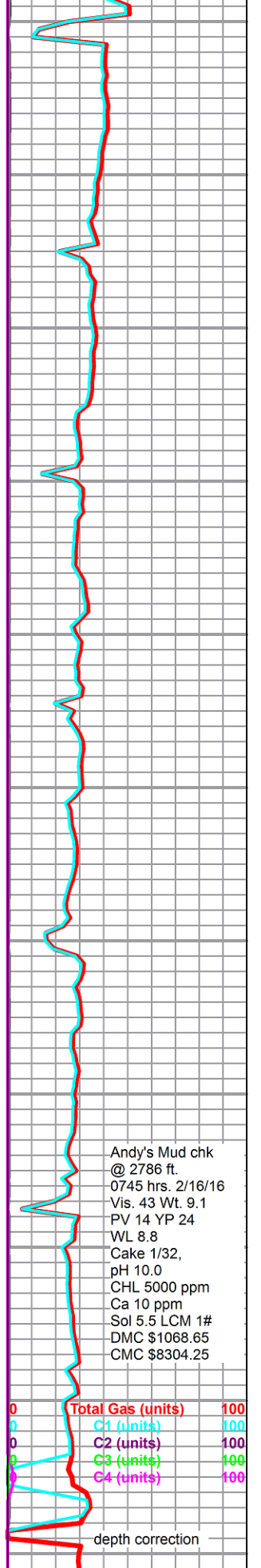
limestone, cream to tan, fossiliferous to bioclastic, fair interclast porosity, spotty to saturated light brown stain, slight sheen, no free oil, weak odor in wet cup, poor fluorescence, good cut with halo

limestone, cream to tan, bioclastic, some fair porosity, light stain, no odor, no show free oil, poor fluorescence, slow fair to weak cut

mixed dense fossiliferous limestones

Heebner 2825 -1072

shale, black carbonaceous



Andy's Mud chk
@ 2786 ft.
0745 hrs. 2/16/16
Vis. 43 Wt. 9.1
PV 14 YP 24
WL 8.8
Cake 1/32,
pH 10.0
CHL 5000 ppm
Ca 10 ppm
Sol 5.5 LCM 1#
DMC \$1068.65
CMC \$8304.25

0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100

depth correction



BASIC
ENERGY SERVICES

RECEIVED 3 1 9 2016

PAGE	CUST	YARD #	INVOICE DATE
1 of 1	1005972	1718	02/17/2016
INVOICE NUMBER			
92051023			

Pratt (620) 672-1201

B YOUNGER ENERGY COMPANY
I 9415 E HARRY ST SUITE 403
L WICHITA
L KS US 67207-5083
T
O ATTN: DIANE

J LEASE NAME Strecker #B-8
O LOCATION
B COUNTY Russell
S STATE KS
I JOB DESCRIPTION Cement-New Well Casing/Pi
T JOB CONTACT
E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40913808	20920-0		Net - 30 days	03/18/2016

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 02/13/2016 to 02/13/2016</i>				
0040913808				
171813013A Cement-New Well Casing/Pi 02/13/2016 8 5/8 Surface Cement New Well				
A-Con' Blend	85.00	EA	6.30	535.50 T
60/40 POZ	150.00	EA	4.20	630.00 T
Celloflake	59.00	EA	1.29	76.40 T
Calcium Chloride	627.00	EA	0.37	230.42 T
"Wooden Cmt Plug, 8 5/8""	1.00	EA	56.00	56.00
"Unit Mileage Chg (PU, cars one way)"	85.00	MI	1.57	133.87
Heavy Equipment Mileage	170.00	MI	2.63	446.25
"Proppant & Bulk Del. Chgs., 888	1.00	EA	777.23	777.23
Depth Charge; 0-500'	1.00	EA	350.00	350.00
Blending & Mixing Service Charge	235.00	BAG	0.49	115.15
Plug Container Util. Chg.	1.00	EA	87.50	87.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	61.25	61.25

Strecker "O"

*+ 180211
Cement 8-5/8" surface casing
w/85 5x5 A-con blend & 150 5x5.
60/40 poz, 30cc, 1/4" celloflake per sack. Cement delivered to surface / #8*

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	3,499.57
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	125.15
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	3,624.72
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		

DP SW

*Strecker #48
018*



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201
36-14-14

FIELD SERVICE TICKET
1718 13013 A

DATE _____ TICKET NO. _____

DATE OF JOB 2-13-16 DISTRICT Pratt		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:								
CUSTOMER Younger Energy Co		LEASE Sticker WELL NO. B-8								
ADDRESS		COUNTY Russell STATE KS								
CITY STATE		SERVICE CREW MATTAI BAILY, MARTIN-Z								
AUTHORIZED BY		JOB TYPE: CON 848 SURFAC								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
20920	05						2-13-16			5:15
						ARRIVED AT JOB				8:10
						START OPERATION	2-13-16			10:30
19918	25					FINISH OPERATION				1:06
						RELEASED				2:00
						MILES FROM STATION TO WELL				85

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: X Dion Vasquez
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 101	A-con Blend	SK	85		1,530 00
CP 103	60/40 POC	SK	150		1,800 00
CC 102	Collofloc	lb	57		218 30
CC 109	Calcium chloride	lb	627		658 35
CP 135	WOODS PLY	EA	1		160 00
E 100	P.U. Miles	M	85		382 50
E 101	heavy eq. Miles	M	170		1,275 00
E 113	PUMP & BULK del.	7M	888		2,220 00
CP 201	Depth charge 0-500'	4hl	1		1,000 00
CP 240	Blend + mix	SK	235		329 00
S 003	Supervisor	EA	1		175 00
CS 004	PUMP CONT.	JOB	1		250 00

SUB TOTAL **9998 70**

SERVICE & EQUIPMENT %TAX ON \$
MATERIALS %TAX ON \$

TOTAL **3,499 57**

CHEMICAL / ACID DATA:			

SERVICE REPRESENTATIVE Mike Murrell

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: X Dion Vasquez
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

RECEIVED FEB 25 2016



BASIC
ENERGY SERVICES

PAGE	CUST #	YARD #	INVOICE DATE
1 of 1	1005972	1718	02/23/2016
INVOICE NUMBER			
92056507			

Pratt (620) 672-1201
 B YOUNGER ENERGY COMPANY
 I 9415 E HARRY ST SUITE 403
 L WICHITA
 L KS US 67207-5083
 T
 O ATTN: DIANE

J LEASE NAME Strecker # "B"-8
 O LOCATION
 B COUNTY Russell
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40915849	86779-0		Net - 30 days	03/24/2016

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 02/19/2016 to 02/19/2016</i>				
0040915849				
171813283A Cement-New Well Casing/Pi 02/19/2016 PTA Cement New Well				
60/40 POZ	160.00	EA	4.20	672.00 T
Celloflake	41.00	EA	1.29	53.09 T
Cement Gel	276.00	EA	0.09	24.15 T
"Wooden Cmt Plug, 8 5/8""	1.00	EA	56.00	56.00
"Unit Mileage Chg (PU, cars one way)"	85.00	MI	1.57	133.87
Heavy Equipment Mileage	170.00	MI	2.63	446.25
"Proppant & Bulk Del. Chgs., 587	1.00	EA	513.20	513.20
Depth Charge; 501'-1000'	1.00	EA	420.00	420.00
Blending & Mixing Service Charge	160.00	BAG	0.49	78.40
"Service Supervisor, first 8 hrs on loc.	1.00	EA	61.25	61.25

180211
 Aug well w/160575 60/40 po2
 80 sxs @ 720
 50 sxs @ 550
 10 sxs @ 40' to surface
 20 sxs not hole / #8

Dr

PLEASE REMIT TO: (2-19-2016) / SEND OTHER CORRESPONDENCE TO:		SUB TOTAL	2,458.21
BASIC ENERGY SERVICES, LP PO BOX 841903 DALLAS, TX 75284-1903	BASIC ENERGY SERVICES, LP 801 CHERRY ST, STE 2100 FORT WORTH, TX 76102	TAX	63.69
		INVOICE TOTAL	2,521.90

DR 3w

Strecker #8
 JIB



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 13283 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>2/19/16</u> DISTRICT _____		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO. _____								
CUSTOMER <u>Younger Energy Co.</u>		LEASE <u>Steecker</u>		WELL NO. <u>D-8</u>						
ADDRESS _____		COUNTY <u>Russell</u>		STATE <u>KS</u>						
CITY _____ STATE _____		SERVICE CREW <u>Scott, Barry, Todd</u>								
AUTHORIZED BY <u>Don</u>		JOB TYPE: _____								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<u>56779</u>	<u>2</u>					ARRIVED AT JOB	<u>2/19/16</u>			<u>8:00</u>
<u>19918</u>	<u>1</u>					START OPERATION	<u>2/19/16</u>			<u>11:20</u>
						FINISH OPERATION	<u>2/19/16</u>			<u>3:15</u>
						RELEASED	<u>2/19/16</u>			<u>5:00</u>
						MILES FROM STATION TO WELL _____				

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Don Vasquez
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<u>CP103</u>	<u>60/106 RDE</u>	<u>SK</u>	<u>160</u>		<u>1920 00</u>
<u>CC102</u>	<u>Call take</u>	<u>lb</u>	<u>41</u>		<u>151 70</u>
<u>CC200</u>	<u>Cement Gel</u>	<u>lb</u>	<u>276</u>		<u>69 00</u>
<u>CT153</u>	<u>Wooden Cement Plug 8 5/8</u>	<u>EA</u>	<u>1</u>		<u>160 00</u>
<u>E100</u>	<u>Unit 24 hours pick up</u>	<u>MI</u>	<u>85</u>		<u>382 50</u>
<u>E104</u>	<u>Heavy Equipment Mileage</u>	<u>MI</u>	<u>170</u>		<u>1275 00</u>
<u>F113</u>	<u>Gas & Bulk Delivery chg</u>	<u>T/M</u>	<u>387</u>		<u>1466 25</u>
<u>CE201</u>	<u>Drift Charge 501-1000'</u>	<u>460'</u>	<u>1</u>		<u>1200 00</u>
<u>CE240</u>	<u>Blending & Mating chg</u>	<u>SK</u>	<u>160</u>		<u>224 00</u>
<u>SEC3</u>	<u>Service Supervisor first 8 hrs</u>	<u>Fa</u>	<u>1</u>		<u>175 00</u>

SUB TOTAL 7,023.45

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$

TOTAL 7,458.21

CHEMICAL / ACID DATA:			

SERVICE REPRESENTATIVE _____	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Don Vasquez</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO. _____

Customer <i>Springer Energy Co</i>	Lease No. <i>B-5</i>	Date <i>2/19/16</i>
Lease <i>3283</i>	Well # <i>B-5</i>	
Field Order # <i>13283</i>	Station <i>Pratt, KS</i>	Casing <i>4 1/2" DP</i>
Type Job <i>Plug to Abandon - CIVIL</i>	Depth	County <i>Russell</i>
	Formation	State <i>KS</i>
		Legal Description <i>36-14-14</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>4 1/2" DP</i>	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth	Depth	From	To	Pre Pad	Max			5 Min.
Volume	Volume	From	To	Pad	Min			10 Min.
Max Press <i>500</i>	Max Press	From	To	Frac	Avg			15 Min.
Well Connection <i>4 1/2"</i>	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative <i>Dean</i>	Station Manager <i>Kevin Bradley</i>	Treater <i>Scott Graves</i>
--	---	--------------------------------

Service Units <i>70752 78982 86779 17086 19918</i>									
Driver Names <i>Scott Bulk</i>									

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>8:30</i>					<i>On location</i>
					<i>Safety Meeting Rig up</i>
					<i>#1 720' hole is loaded</i>
<i>1:20</i>	<i>110</i>			<i>4.5</i>	<i>Pump H2O spacer</i>
<i>1:22</i>	<i>130</i>		<i>10</i>	<i>5</i>	<i>Mix 80 SKS 60/40 POT at 15.75ppg</i>
<i>1:27</i>	<i>40</i>		<i>20.37</i>	<i>5</i>	<i>Start Displacement</i>
<i>1:30</i>	<i>0</i>		<i>9</i>		<i>Shut down NO Returns</i>
					<i>#2 350' hole is loaded</i>
<i>2:06</i>	<i>90</i>			<i>5</i>	<i>Pump H2O spacer</i>
<i>2:07</i>	<i>90</i>		<i>5</i>	<i>5</i>	<i>Mix 50 SKS 60/40 POT 13.75ppg</i>
<i>2:10</i>	<i>30</i>		<i>12.73</i>	<i>5</i>	<i>Start Displacement</i>
<i>2:12</i>	<i>0</i>		<i>7</i>		<i>Shut down NO Returns</i>
					<i>#3 40' to surface</i>
<i>2:31</i>	<i>0</i>			<i>3</i>	<i>Mix 10 SKS 60/40 POT 13.75ppg</i>
<i>2:35</i>	<i>0</i>		<i>2.6</i>		<i>Shut down</i>
					<i>Circulated cement to surface</i>
<i>3:00</i>	<i>0</i>			<i>2.5</i>	<i>Plug Port hole 30 SKS 60/40 POT</i>
<i>3:15</i>	<i>0</i>		<i>8</i>		<i>Shut down</i>
					<i>Job complete</i>