

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)</i> <i>(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	F. G. Holl Company L.L.C.
Well Name	ZOE/GARRETT UNIT 1-11
Doc ID	1387442

All Electric Logs Run

DIL
MRL
CDCN-ML
BHCS, CPI

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	ZOE/GARRETT UNIT 1-11
Doc ID	1387442

Tops

Name	Top	Datum
Stotler	2776	-745
Tarkio	2737	-806
Howard	2879	-948
Heebner	3243	-1312
Toronto	3266	-1335
Douglas Shale	3283	-1352
Brown Lime	3361	-1430
LKC	3371	-1440
Drum	3496	-1565
BKC	3602	-1671
Arbuckle	3701	-1770
RTD	3735	-1804



DRILL STEM TEST REPORT

Prepared For: **F.G.|Holl Company**

9431 East Central suite 100
Wichita, Kansas 67206-2563

ATTN: Renee Husted

Gene Budig

11-21s-14w

Start Date: 2017.11.11 @ 08:00:00

End Date: 2017.11.11 @ 00:00:00

Job Ticket #: 01198 DST #: 1

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

Printed: 2017.11.11 @ 08:51:13



DRILL STEM TEST REPORT

F.G. |Holl Company
 9431 East Central suite 100
 Wichita, Kansas 67206-2563
 ATTN: Renee Hustead

11-21s-14w
Gene Budig
 Job Ticket: 01198 **DST#: 1**
 Test Start: 2017.11.11 @ 08:00:00

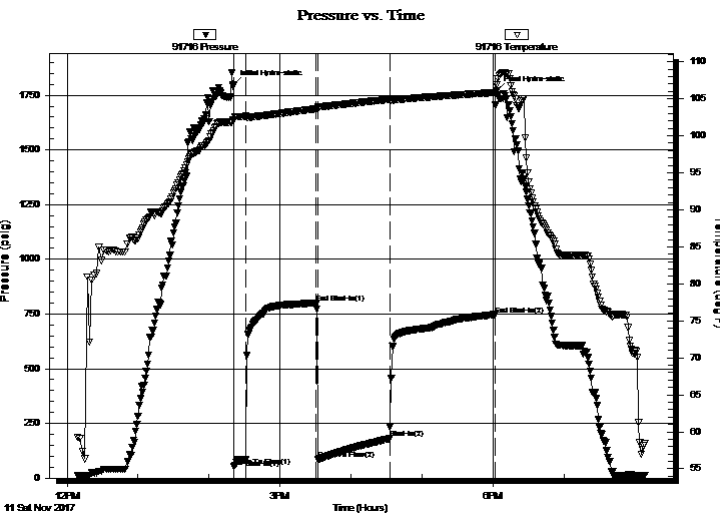
GENERAL INFORMATION:

Formation: **kansas City "h"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 02:20:00 Tester: Gene Budig
 Time Test Ended: 00:00:00 Unit No: 1
 Interval: **3490.00 ft (KB) To 3532.00 ft (KB) (TVD)** Reference Elevations: 1930.00 ft (KB)
 Total Depth: 3532.00 ft (KB) (TVD) 1922.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 91716 Outside

Press@RunDepth: 747.40 psig @ 3528.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2017.11.11 End Date: 2017.11.11 Last Calib.: 2017.11.11
 Start Time: 12:08:00 End Time: 20:08:00 Time On Btm: 2017.11.11 @ 14:20:30
 Time Off Btm: 2017.11.11 @ 18:03:00

TEST COMMENT: 1st opening 10 minutes w eak building blow built to 5 1/2 inches into the w ater
 1st Shut-in 60 Minutes no blow back
 2nd opening 60 Minutes w eak buiklding blow built to the bottom of the bucklet in32 minutes
 2nd shut-in 90 minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1796.36	102.17	Initial Hydro-static
1	54.91	102.08	Open To Flow (1)
11	84.14	102.64	Shut-In(1)
70	799.87	103.65	End Shut-In(1)
72	85.17	103.90	Open To Flow (2)
132	180.91	104.91	Shut-In(2)
221	747.40	105.84	End Shut-In(2)
223	1771.15	106.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
290.00	slightly muddy w ater	4.07
0.00	chlorides	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F.G. |Holl Company
 9431 East Central suite 100
 Wichita, Kansas 67206-2563
 ATTN: Renee Hustead

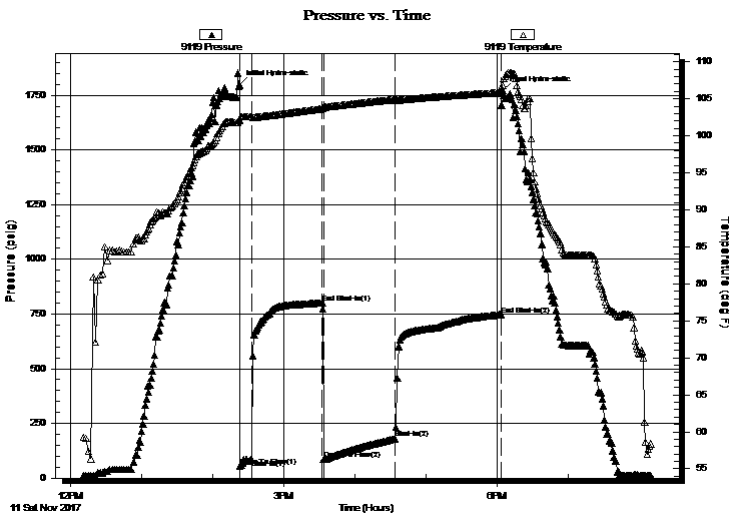
11-21s-14w
Gene Budig
 Job Ticket: 01198 **DST#: 1**
 Test Start: 2017.11.11 @ 08:00:00

GENERAL INFORMATION:

Formation: **kansas City "h"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:20:00
 Time Test Ended: 00:00:00
 Interval: **3490.00 ft (KB) To 3532.00 ft (KB) (TVD)**
 Total Depth: 3532.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 1
 Reference Elevations: 1930.00 ft (KB)
 1922.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 9119 Inside
 Press@RunDepth: 747.40 psig @ 3528.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2017.11.11 End Date: 2017.11.11 Last Calib.: 2017.11.11
 Start Time: 12:10:00 End Time: 20:10:00 Time On Btm: 2017.11.11 @ 14:22:30
 Time Off Btm: 2017.11.11 @ 18:05:00

TEST COMMENT: 1st opening 10 minutes w eak building blow built to 5 1/2 inches into the w ater
 1st Shut-in 60 Minutes no blow back
 2nd opening 60 Minutes w eak buiklding blow built to the bottom of the bucklet in32 minutes
 2nd shut-in 90 minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1796.36	102.17	Initial Hydro-static
1	54.91	102.08	Open To Flow (1)
11	84.14	102.64	Shut-In(1)
70	799.87	103.65	End Shut-In(1)
71	84.93	103.91	Open To Flow (2)
132	180.07	104.90	Shut-In(2)
221	747.40	105.84	End Shut-In(2)
223	1771.15	106.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
290.00	slightly muddy w ater	4.07
0.00	chlorides	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company

11-21s-14w

9431 East Central suite 100
Wichita, Kansas 67206-2563

Gene Budig

Job Ticket: 01198

DST#: 1

ATTN: Renee Husted

Test Start: 2017.11.11 @ 08:00:00

Tool Information

Drill Pipe:	Length: 3479.00 ft	Diameter: 3.80 inches	Volume: 48.80 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:	65000.00 lb
			<u>Total Volume: 48.80 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3490.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	43.00 ft				
Tool Length:	73.00 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			3465.00	
Hydraulic tool	5.00			3470.00	
Jars	5.00			3475.00	
Safety Joint	5.00			3480.00	
Packer	5.00			3485.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	3490.00	
Anchor	38.00			3528.00	
Recorder	0.00	9119	Inside	3528.00	
Recorder	0.00	91716	Outside	3528.00	
Bullnose	5.00			3533.00	43.00 Bottom Packers & Anchor
Total Tool Length:	73.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company

11-21s-14w

9431 East Central suite 100
Wichita, Kansas 67206-2563

Gene Budig

Job Ticket: 01198

DST#: 1

ATTN: Renee Husted

Test Start: 2017.11.11 @ 08:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 68.00 sec/qt

Water Loss: 6.80 in³

Resistivity: ohm.m

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
290.00	slightly muddy water	4.068
0.00	chlorides	0.000

Total Length: 290.00 ft Total Volume: 4.068 bbl

Num Fluid Samples: 0

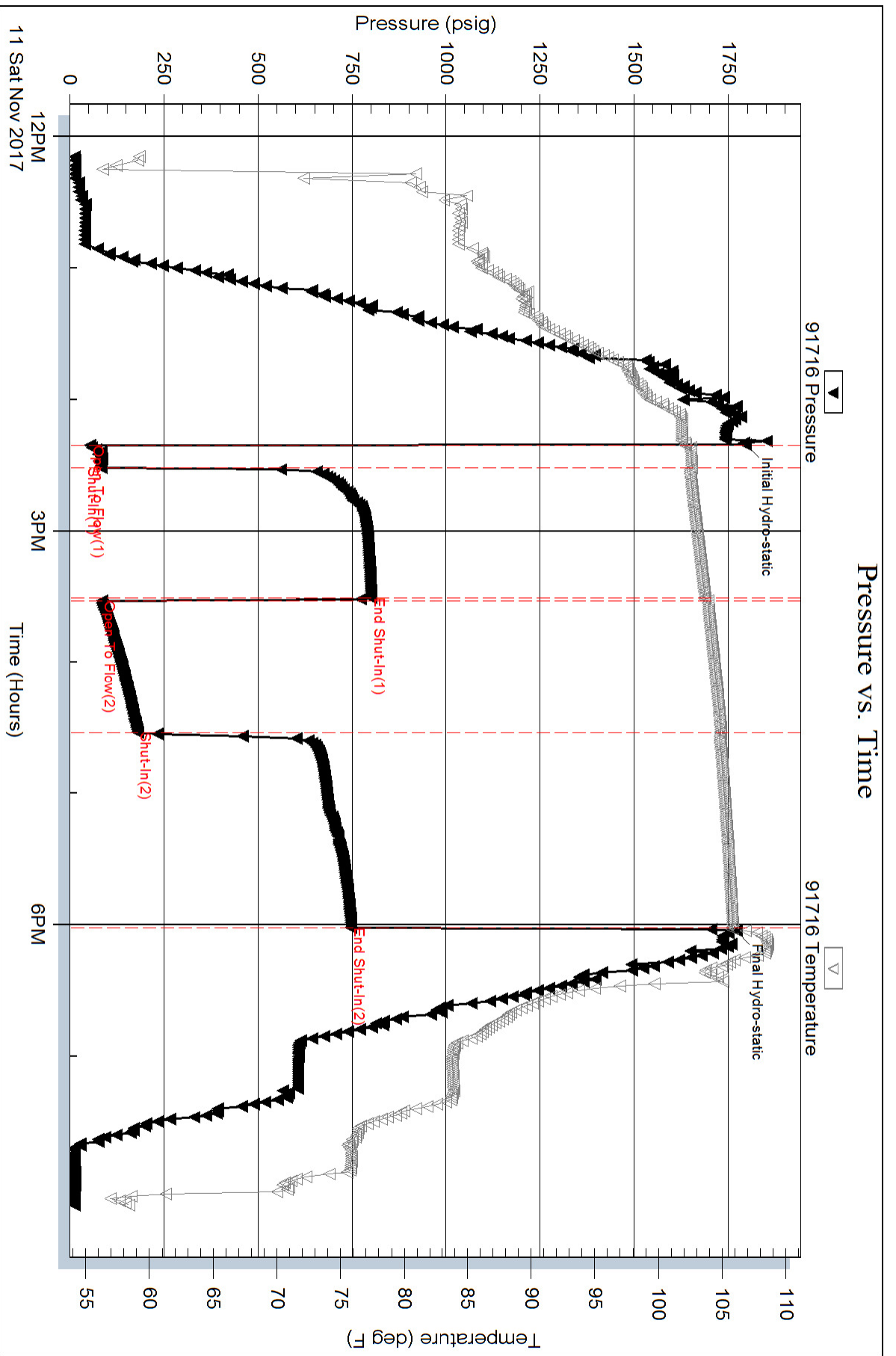
Num Gas Bombs: 0

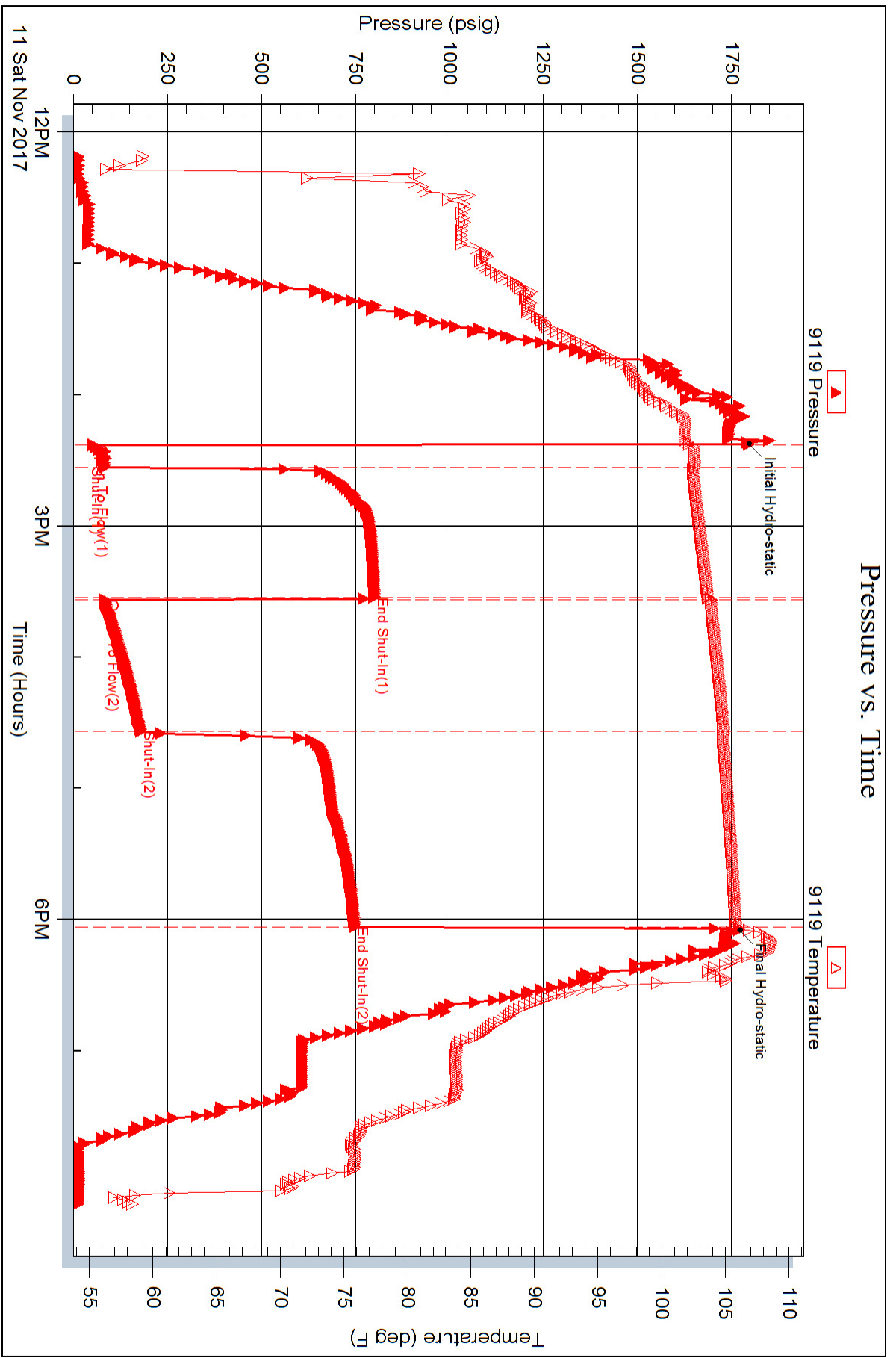
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **F.G.|Holl Company**

9431 East Central suite 100
Wichita, Kansas 67206-2563

ATTN: Renee Husted

Gene Budig

11-21s-14w

Start Date: 2017.11.12 @ 08:56:00

End Date: 2017.11.12 @ 00:00:00

Job Ticket #: 01199 DST #: 2

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

Printed: 2017.11.12 @ 15:25:44



DRILL STEM TEST REPORT

F.G.Holl Company
 9431 East Central suite 100
 Wichita, Kansas 67206-2563
 ATTN: Renee Husted

11-21s-14w
Gene Budig
 Job Ticket: 01199 **DST#: 2**
 Test Start: 2017.11.12 @ 08:56:00

GENERAL INFORMATION:

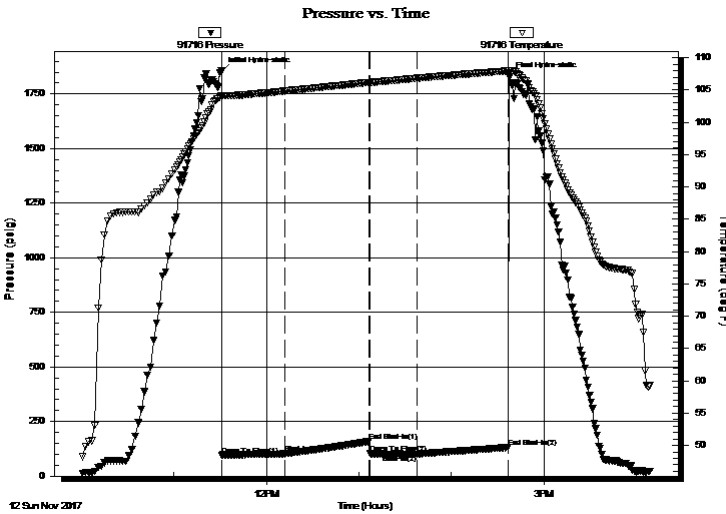
Formation: **Viola & Simpaon**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:22:00
 Time Test Ended: 00:00:00
 Interval: **3576.00 ft (KB) To 3696.00 ft (KB) (TVD)**
 Total Depth: 3696.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 1
 Reference Elevations: 1930.00 ft (KB)
 1922.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 91716 Outside

Press@RunDepth: 131.26 psig @ 3691.79 ft (KB) Capacity: 5000.00 psig
 Start Date: 2017.11.12 End Date: 2017.11.12 Last Calib.: 2017.11.12
 Start Time: 10:00:13 End Time: 16:08:43 Time On Btm: 2017.11.12 @ 11:30:43
 Time Off Btm: 2017.11.12 @ 14:37:43

TEST COMMENT: 1st opening 36 minutes weak blow for 8u minutes and died
 1st shut-in 60 minutes no blow back
 2nd opening 30 minutes no blow
 2nd shut-in 60 minutes no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1853.98	104.10	Initial Hydro-static
1	96.66	104.12	Open To Flow (1)
42	102.66	104.87	Shut-In(1)
96	159.23	106.17	End Shut-In(1)
97	103.25	106.17	Open To Flow (2)
127	100.35	106.84	Shut-In(2)
186	131.26	107.96	End Shut-In(2)
187	1827.28	108.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Drilling Mud	0.21

Gas Rates

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



DRILL STEM TEST REPORT

F.G. |Holl Company

11-21s-14w

9431 East Central suite 100
Wichita, Kansas 67206-2563

Gene Budig

Job Ticket: 01199

DST#: 2

ATTN: Renee Husted

Test Start: 2017.11.12 @ 08:56:00

GENERAL INFORMATION:

Formation: **Viola & Simpaon**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:22:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: **3576.00 ft (KB) To 3696.00 ft (KB) (TVD)**

Reference Elevations: 1930.00 ft (KB)

Total Depth: 3696.00 ft (KB) (TVD)

1922.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **9139** Inside

Press@RunDepth: 125.45 psig @ 3691.79 ft (KB)

Capacity: 5000.00 psig

Start Date: 2017.11.12 End Date: 2017.11.12

Last Calib.: 2017.11.12

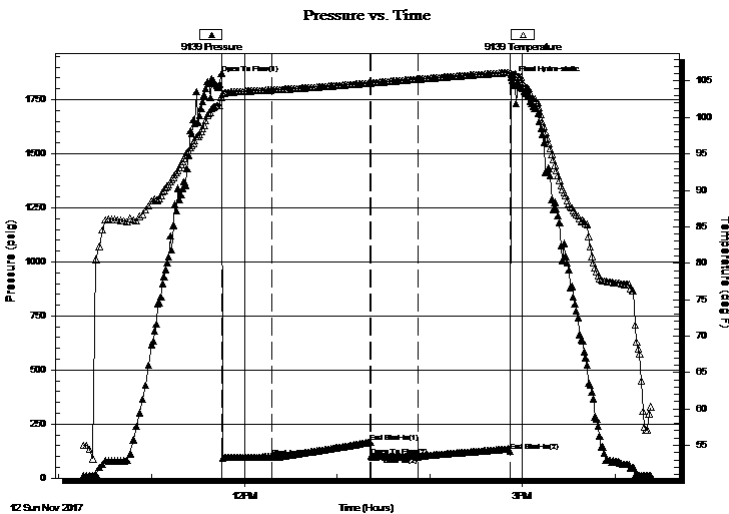
Start Time: 10:15:00 End Time: 16:23:30

Time On Btm:

Time Off Btm: 2017.11.12 @ 14:53:30

TEST COMMENT: 1st opening 36 minutes weak blow for 8u minutes and died
1st shut-in 60 minutes no blow back
2nd opening 30 minutes no blow
2nd shut-in 60 minutes no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1872.33	102.83	Open To Flow (1)
32	97.97	103.78	Shut-In(1)
96	167.15	104.72	End Shut-In(1)
97	99.94	104.75	Open To Flow (2)
127	99.55	105.26	Shut-In(2)
187	125.45	106.19	End Shut-In(2)
188	1839.75	105.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Drilling Mud	0.21

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company

11-21s-14w

9431 East Central suite 100
Wichita, Kansas 67206-2563

Gene Budig

Job Ticket: 01199

DST#: 2

ATTN: Renee Husted

Test Start: 2017.11.12 @ 08:56:00

Tool Information

Drill Pipe:	Length: 3576.00 ft	Diameter: 3.80 inches	Volume: 50.16 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 64000.00 lb
			Total Volume: 50.16 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3576.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	120.79 ft			
Tool Length:	150.79 ft			
Number of Packers:	2	Diameter:	6.75 inches	

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3551.00	
Hydraulic tool	5.00			3556.00	
Jars	5.00			3561.00	
Safety Joint	5.00			3566.00	
Packer	5.00			3571.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	3576.00	
Anchor	5.00			3581.00	
Change Over Sub	0.75			3581.75	
Drill Pipe	92.29			3674.04	
Change Over Sub	0.75		Inside	3674.79	
Anchor	17.00			3691.79	
Recorder	0.00	9139	Inside	3691.79	
Recorder	0.00	91716	Outside	3691.79	
Bullnose	5.00			3696.79	120.79 Bottom Packers & Anchor

Total Tool Length: 150.79



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company

11-21s-14w

9431 East Central suite 100
Wichita, Kansas 67206-2563

Gene Budig

Job Ticket: 01199

DST#: 2

ATTN: Renee Husted

Test Start: 2017.11.12 @ 08:56:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 56.00 sec/qt
Water Loss: 7.20 in³
Resistivity: ohm.m
Salinity: ppm
Filter Cake: inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

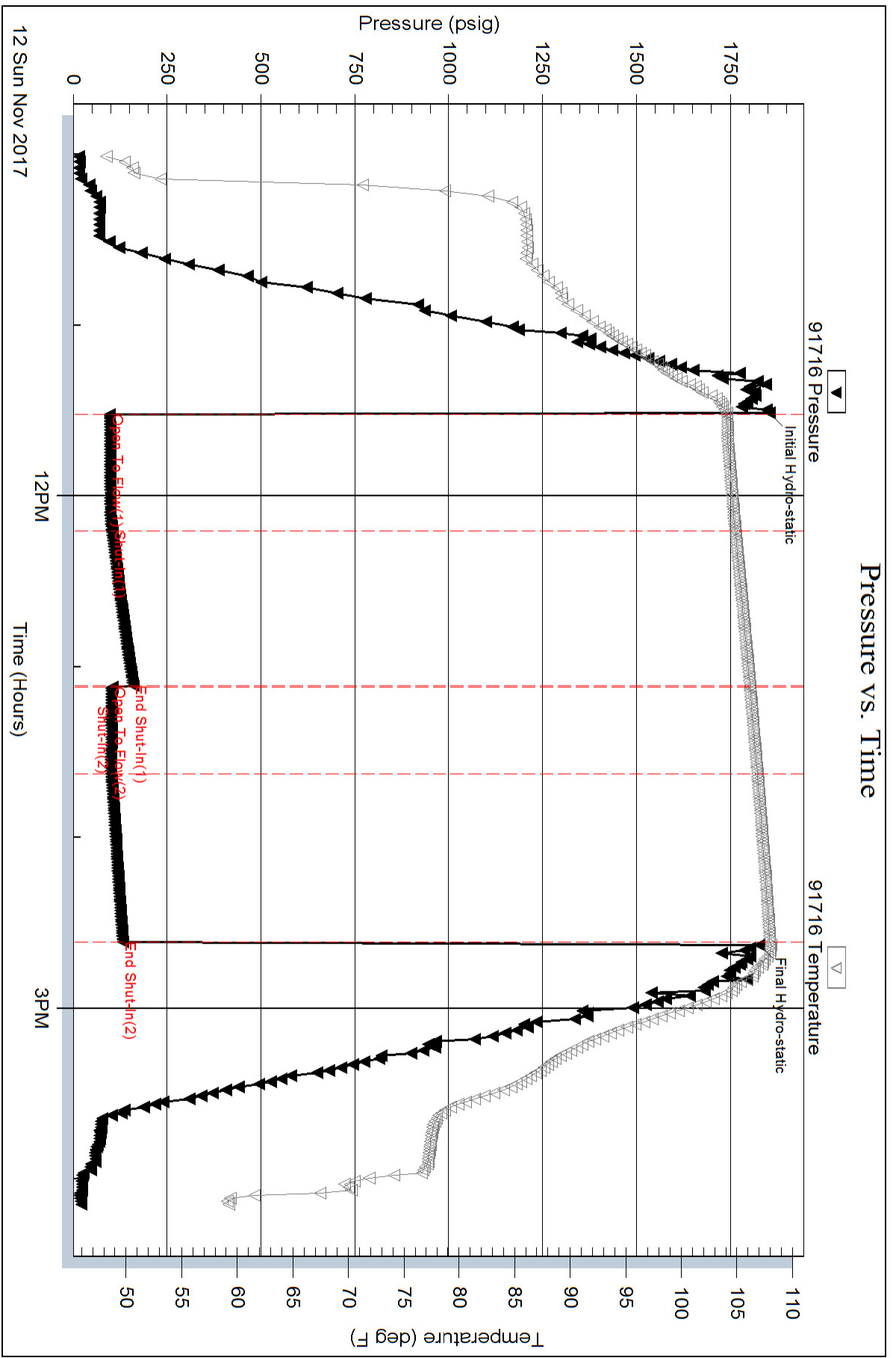
Length ft	Description	Volume bbl
15.00	Drilling Mud	0.210

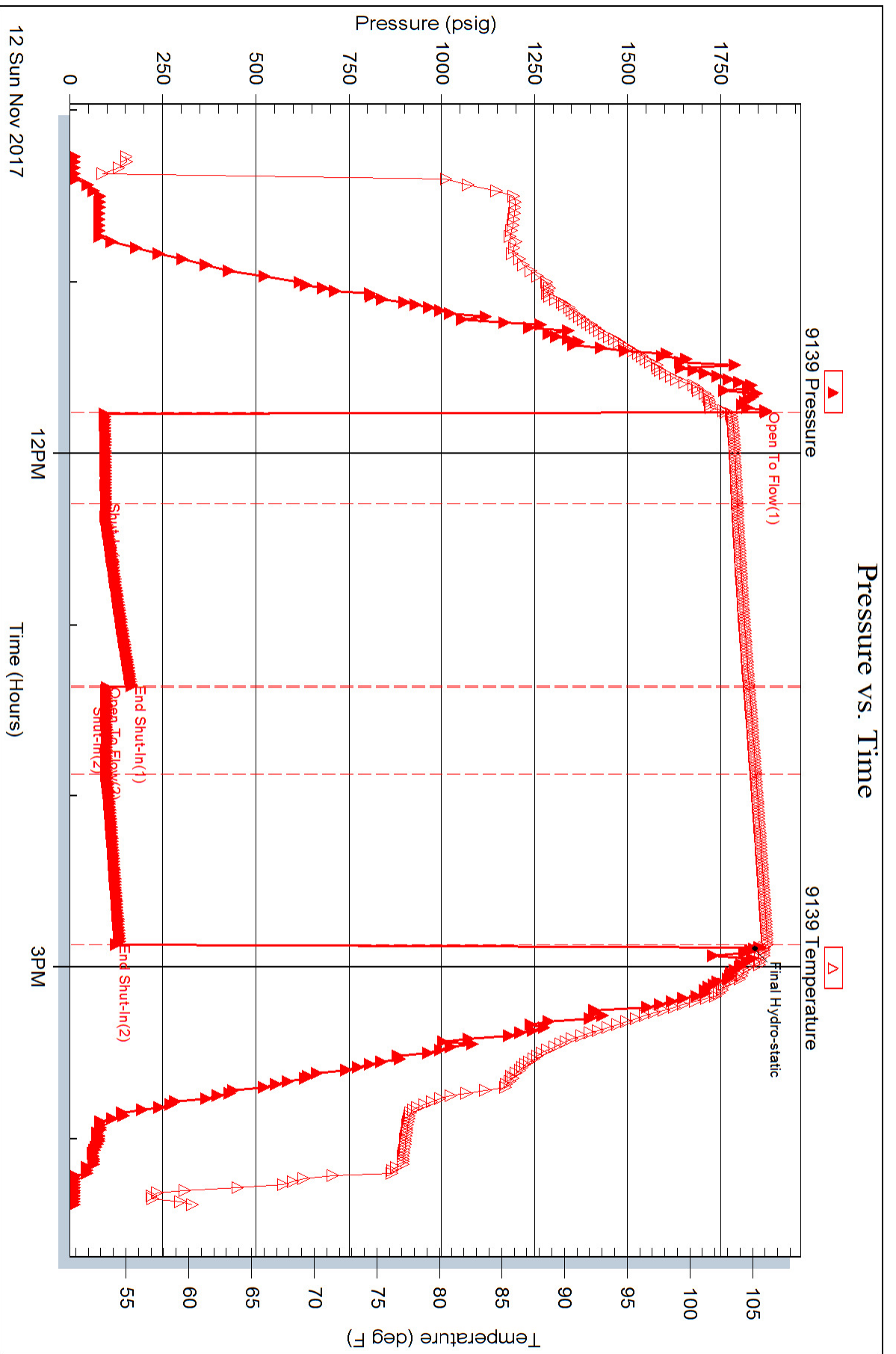
Total Length: 15.00 ft Total Volume: 0.210 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company**

9431 East Central suite 100
Wichita, Kansas 67206-2563

ATTN: Renee Husted

Gene Budig

11-21s-14w

Start Date: 2017.11.12 @ 11:28:00

End Date: 2017.11.13 @ 00:00:00

Job Ticket #: 011200 DST #: 3

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

Printed: 2017.11.13 @ 07:33:42

F.G.Holl Company
11-21s-14w
Gene Budig
DST # 3
Arbuckle
2017.11.12



DRILL STEM TEST REPORT

F.G.Holl Company

11-21s-14w

9431 East Central suite 100
Wichita, Kansas 67206-2563

Gene Budig

Job Ticket: 011200

DST#: 3

ATTN: Renee Husted

Test Start: 2017.11.12 @ 11:28:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:17:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Genen Budig

Unit No: 1

Interval: **3650.00 ft (KB) To 3705.00 ft (KB) (TVD)**

Reference Elevations: 1930.00 ft (KB)

Total Depth: 3705.00 ft (KB) (TVD)

1922.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **91716** Outside

Press@RunDepth: 1285.12 psig @ 3700.53 ft (KB)

Capacity: 5000.00 psig

Start Date: 2017.11.12

End Date: 2017.11.13

Last Calib.: 2017.11.13

Start Time: 23:28:00

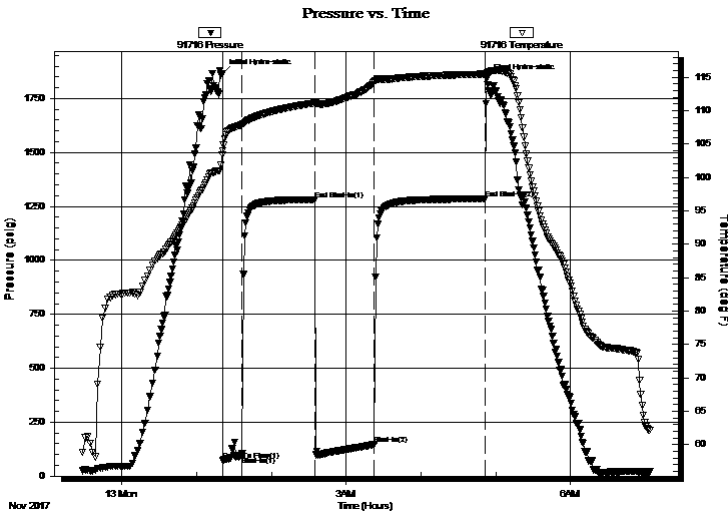
End Time: 07:04:00

Time On Btm: 2017.11.13 @ 01:20:30

Time Off Btm: 2017.11.13 @ 04:53:00

TEST COMMENT: 1st opening 15 minutes weak blow built to 2 1/2 inches into the water
1st shut-in 60 minutes no blow back
2nd opening 45 minutes weak blow built to 11 inches into the water
2nd shut-in 90 minutes no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1867.32	103.40	Initial Hydro-static
1	73.43	104.04	Open To Flow (1)
16	93.48	107.85	Shut-In(1)
74	1282.30	111.10	End Shut-In(1)
122	147.22	114.30	Shut-In(2)
211	1285.12	115.44	End Shut-In(2)
213	1843.30	115.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	hEAVY mUD	0.98
60.00	slightly muddy w ater	0.84
0.00	20 %Mud 80 w ater	0.00
60.00	Slightly Muddy w ater	0.84
0.00	15% Mud 85%Mud	0.00
0.00	Chlorides 14000	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F.G.Holl Company

11-21s-14w

9431 East Central suite 100
Wichita, Kansas 67206-2563

Gene Budig

Job Ticket: 011200

DST#: 3

ATTN: Renee Husted

Test Start: 2017.11.12 @ 11:28:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:17:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Genen Budig

Unit No: 1

Interval: **3650.00 ft (KB) To 3705.00 ft (KB) (TVD)**

Reference Elevations: 1930.00 ft (KB)

Total Depth: 3705.00 ft (KB) (TVD)

1922.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **9139** Inside

Press@RunDepth: 1303.18 psig @ 3700.53 ft (KB)

Capacity: 5000.00 psig

Start Date: 2017.11.12

End Date: 2017.11.13

Last Calib.: 2017.11.13

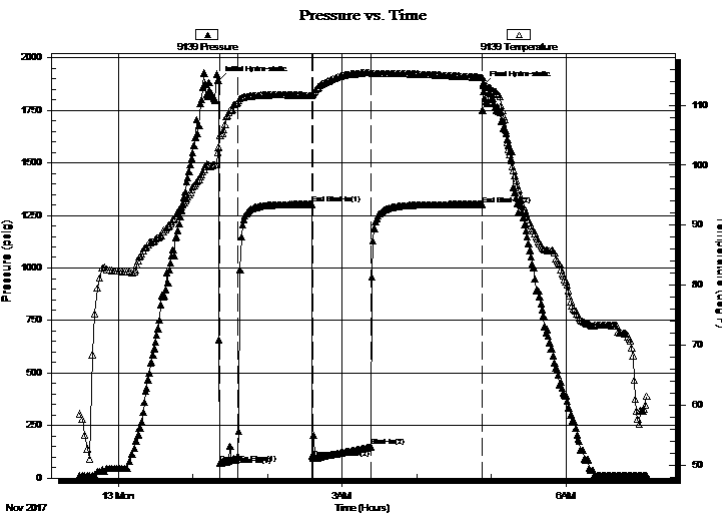
Start Time: 23:28:00

End Time: 07:05:00

Time On Btm: 2017.11.13 @ 01:20:30

Time Off Btm: 2017.11.13 @ 04:53:30

TEST COMMENT: 1st opening 15 minutes weak blow built to 2 1/2 inches into the water
1st shut-in 60 minutes no blow back
2nd opening 45 minutes weak blow built to 11 inches into the water
2nd shut-in 90 minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1891.68	102.98	Initial Hydro-static
2	70.57	104.88	Open To Flow (1)
16	106.26	110.45	Shut-In(1)
75	1303.47	111.62	End Shut-In(1)
76	93.27	111.98	Open To Flow (2)
123	149.34	115.48	Shut-In(2)
212	1303.18	114.64	End Shut-In(2)
213	1869.24	113.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	hEAVY mUD	0.98
60.00	slightly muddy w ater	0.84
0.00	20 %Mud 80 w ater	0.00
60.00	Slightly Muddy w ater	0.84
0.00	15% Mud 85%Mud	0.00
0.00	Chlorides 14000	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company

11-21s-14w

9431 East Central suite 100
Wichita, Kansas 67206-2563

Gene Budig

Job Ticket: 011200

DST#: 3

ATTN: Renee Husted

Test Start: 2017.11.12 @ 11:28:00

Tool Information

Drill Pipe:	Length: 3640.00 ft	Diameter: 3.80 inches	Volume: 51.06 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: 68000.00 lb
			<u>Total Volume: 51.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3650.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.53 ft			
Tool Length:	85.53 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3625.00	
Hydraulic tool	5.00			3630.00	
Jars	5.00			3635.00	
Safety Joint	5.00			3640.00	
Packer	5.00			3645.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	3650.00	
Anchor	5.00			3655.00	
Change Over Sub	0.75			3655.75	
Drill Pipe	30.03			3685.78	
Change Over Sub	0.75		Inside	3686.53	
Anchor	14.00			3700.53	
Recorder	0.00	9139	Inside	3700.53	
Recorder	0.00	91716	Outside	3700.53	
Bullnose	5.00			3705.53	55.53 Bottom Packers & Anchor

Total Tool Length: 85.53



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company

11-21s-14w

9431 East Central suite 100
Wichita, Kansas 67206-2563

Gene Budig

Job Ticket: 011200

DST#: 3

ATTN: Renee Husted

Test Start: 2017.11.12 @ 11:28:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 56.00 sec/qt
Water Loss: 7.20 in³
Resistivity: ohm.m
Salinity: 6000.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	hEAVY mUD	0.982
60.00	slightly muddy w ater	0.842
0.00	20 %Mud 80 w ater	0.000
60.00	Slightly Muddy w ater	0.842
0.00	15% Mud 85%Mud	0.000
0.00	Chlorides 14000	0.000

Total Length: 190.00 ft Total Volume: 2.666 bbl

Num Fluid Samples: 0

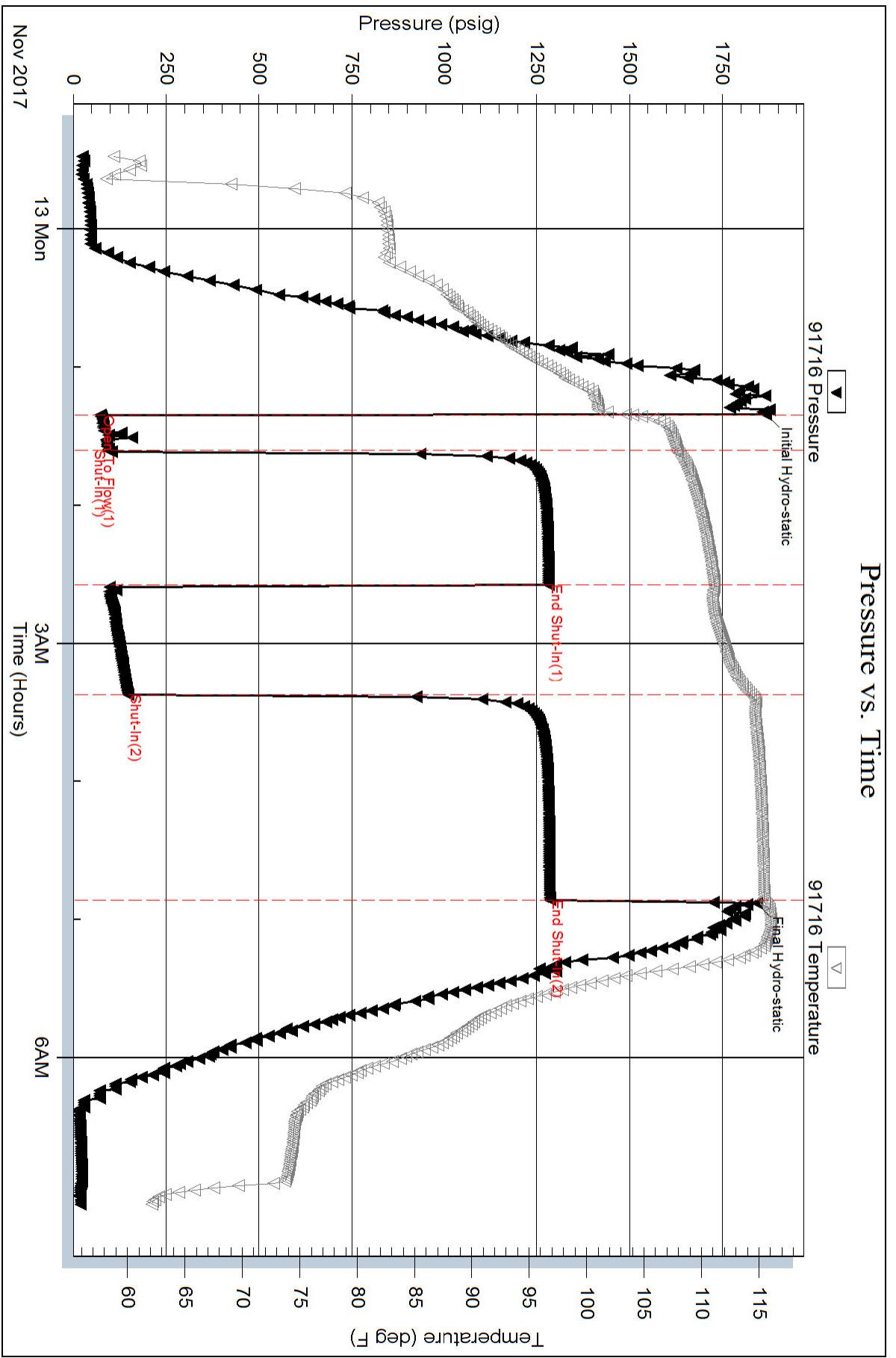
Num Gas Bombs: 0

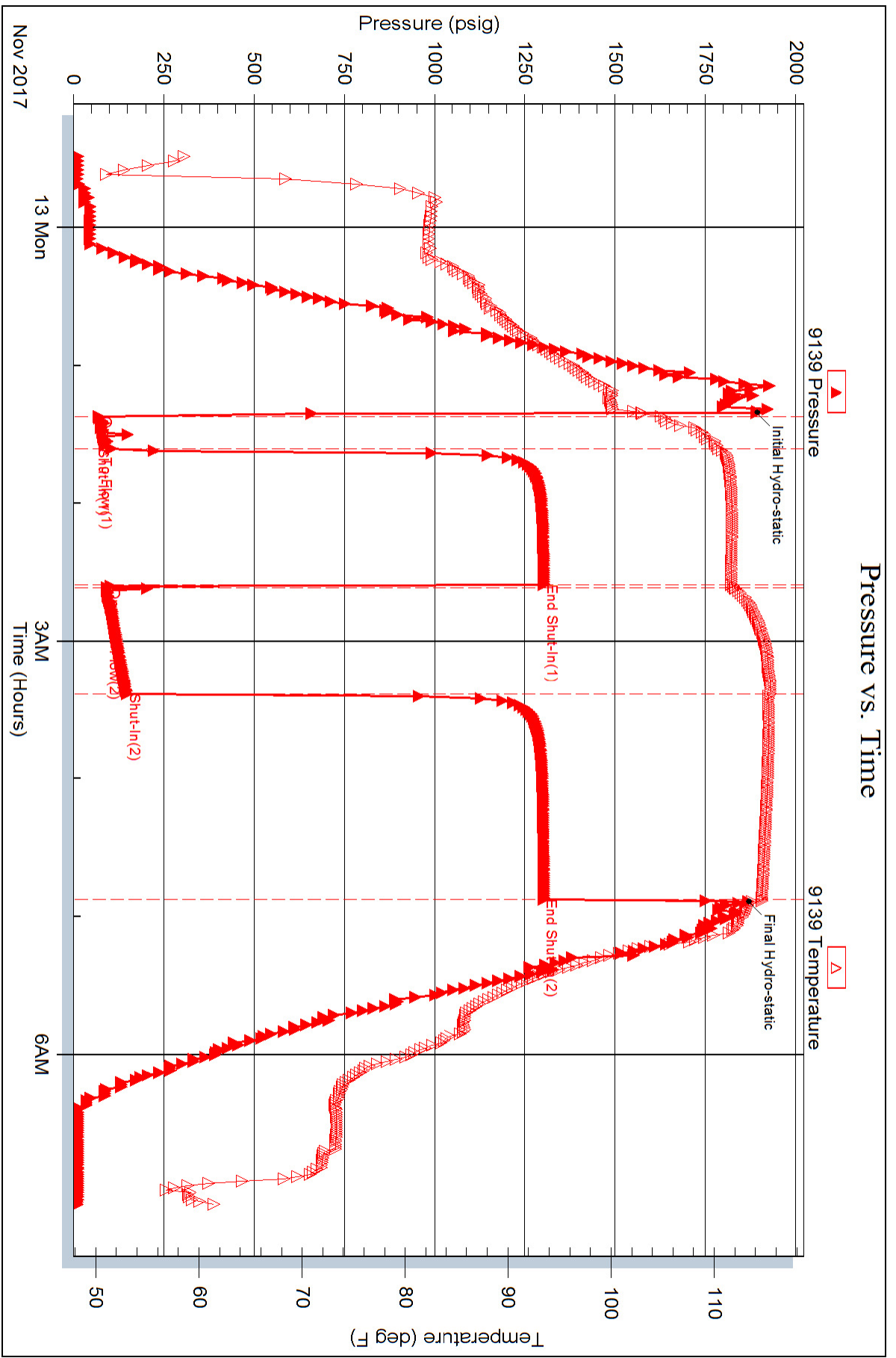
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company**

9431 East Central suite 100
Wichita, Kansas 67206-2563

ATTN: Renee Husted

Gene Budig

11-21s-14w

Start Date: 2017.11.14 @ 04:02:00

End Date: 2017.11.14 @ 00:00:00

Job Ticket #: 01101 DST #: 4

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

Printed: 2017.11.14 @ 12:42:25

F.G.Holl Company
11-21s-14w
Gene Budig
DST # 4
Kansas City "K"
2017.11.14



DRILL STEM TEST REPORT

F.G.Holl Company

11-21s-14w

9431 East Central suite 100
Wichita, Kansas 67206-2563

Gene Budig

Job Ticket: 01101

DST#: 4

ATTN: Renee Husted

Test Start: 2017.11.14 @ 04:02:00

GENERAL INFORMATION:

Formation: **Kansas City "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:40:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: **3540.00 ft (KB) To 3555.00 ft (KB) (TVD)**

Reference Elevations: 1930.00 ft (KB)

Total Depth: 3735.00 ft (KB) (TVD)

1922.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **91716** Outside

Press@RunDepth: 410.42 psig @ 3554.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2017.11.14

End Date: 2017.11.14

Last Calib.: 2017.11.14

Start Time: 04:05:30

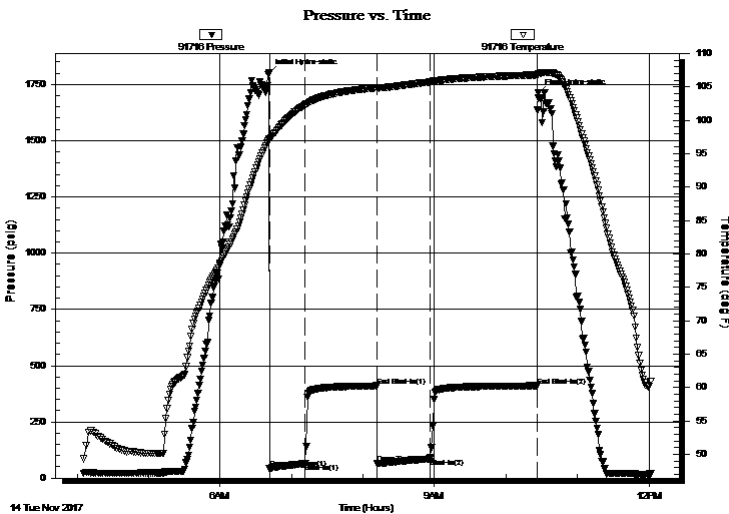
End Time: 12:02:00

Time On Btm: 2017.11.14 @ 06:41:00

Time Off Btm: 2017.11.14 @ 10:27:00

TEST COMMENT: 1st Opening 30 minutes w eak blow built to 3 1/2 inches into the water
1st Shut-In 60 Minutes no blow back
2nd Opening 45 minutes w eak blow built to 4 inches
2nd Shut-In 90 Minutes no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1799.97	97.08	Initial Hydro-static
1	42.00	97.21	Open To Flow (1)
31	64.88	102.29	Shut-In(1)
91	410.24	104.85	End Shut-In(1)
91	64.50	104.87	Open To Flow (2)
136	89.76	105.74	Shut-In(2)
225	410.42	106.79	End Shut-In(2)
226	1711.06	106.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	water	1.40

Gas Rates

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



DRILL STEM TEST REPORT

F.G.Holl Company
 9431 East Central suite 100
 Wichita, Kansas 67206-2563
 ATTN: Renee Husted

11-21s-14w
Gene Budig
 Job Ticket: 01101 **DST#: 4**
 Test Start: 2017.11.14 @ 04:02:00

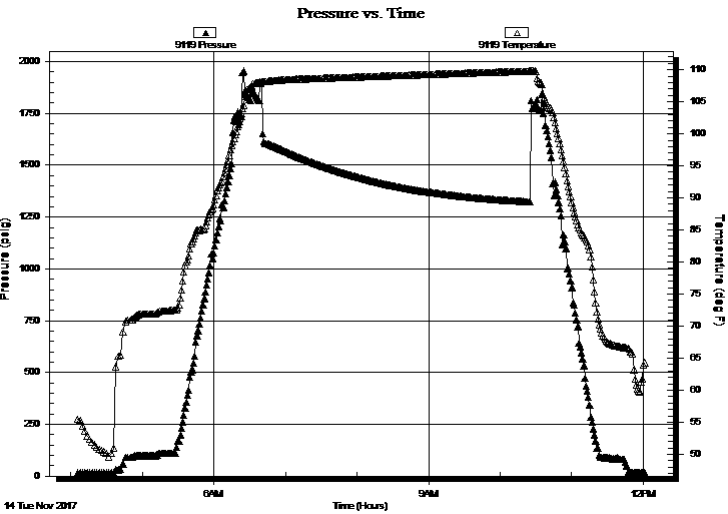
GENERAL INFORMATION:

Formation: **Kansas City "K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:40:00
 Time Test Ended: 00:00:00
 Interval: **3540.00 ft (KB) To 3555.00 ft (KB) (TVD)**
 Total Depth: 3735.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 1
 Reference Elevations: 1930.00 ft (KB)
 1922.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 9119 Inside

Press@RunDepth: psig @ 3554.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2017.11.14 End Date: 2017.11.14 Last Calib.: 2017.11.14
 Start Time: 04:06:00 End Time: 12:01:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 1st Opening 30 minutes weak blow built to 3 1/2 inches into the water
 1st Shut-In 60 Minutes no blow back
 2nd Opening 45 minutes weak blow built to 4 inches
 2nd Shut-In 90 Minutes no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
100.00	water	1.40

Gas Rates

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



DRILL STEM TEST REPORT

F.G. |Holl Company

11-21s-14w

9431 East Central suite 100
Wichita, Kansas 67206-2563

Gene Budig

ATTN: Renee Husted

Job Ticket: 01101

DST#: 4

Test Start: 2017.11.14 @ 04:02:00

GENERAL INFORMATION:

Formation: **Kansas City "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:40:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: 3540.00 ft (KB) To 3555.00 ft (KB) (TVD)

Reference Elevations: 1930.00 ft (KB)

Total Depth: 3735.00 ft (KB) (TVD)

1922.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 9139

Outside

Press@RunDepth: 421.95 psig @ 3740.61 ft (KB)

Capacity: 5000.00 psig

Start Date: 2017.11.14

End Date: 2017.11.14

Last Calib.: 2017.11.14

Start Time: 04:06:00

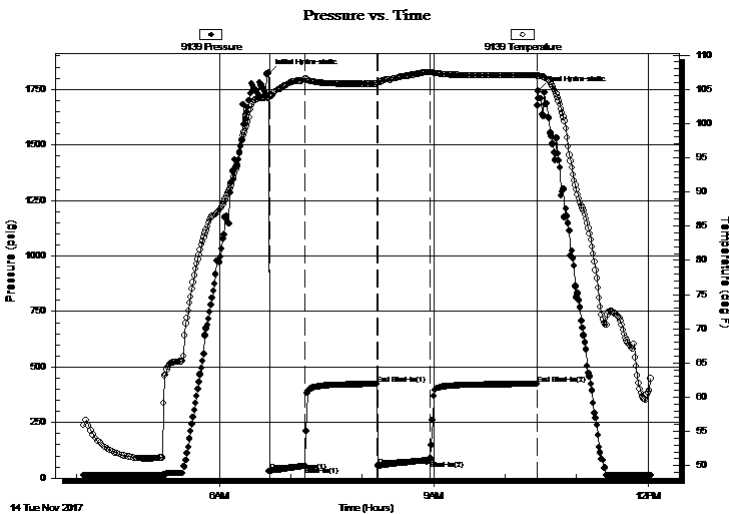
End Time: 12:02:30

Time On Btm: 2017.11.14 @ 06:41:30

Time Off Btm: 2017.11.14 @ 10:27:30

TEST COMMENT: 1st Opening 30 minutes w eak blow built to 3 1/2 inches into the water
1st Shut-In 60 Minutes no blow back
2nd Opening 45 minutes w eak blow bujilt to 4 inches
2nd Shut-In 90 Minutes no blow bAck

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1822.67	103.71	Initial Hydro-static
1	30.82	104.05	Open To Flow (1)
31	54.70	106.52	Shut-In(1)
91	422.08	105.74	End Shut-In(1)
92	55.41	105.79	Open To Flow (2)
135	79.86	107.46	Shut-In(2)
225	421.95	106.98	End Shut-In(2)
226	1742.14	106.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	water	1.40

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company

11-21s-14w

9431 East Central suite 100
Wichita, Kansas 67206-2563

Gene Budig

Job Ticket: 01101

DST#: 4

ATTN: Renee Husted

Test Start: 2017.11.14 @ 04:02:00

Tool Information

Drill Pipe:	Length: 3536.00 ft	Diameter: 3.80 inches	Volume: 49.60 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: 72000.00 lb
			<u>Total Volume: 49.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3540.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	205.61 ft			
Tool Length:	235.61 ft			
Number of Packers:	4	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3515.00	
Hydraulic tool	5.00			3520.00	
Jars	5.00			3525.00	
Safety Joint	5.00			3530.00	
Top Packer	5.00			3535.00	
Packer	5.00		Fluid	3540.00	30.00 Bottom Of Top Packer
Anchor	14.00			3554.00	
Recorder	0.00	9119	Inside	3554.00	
Recorder	0.00	91716	Outside	3554.00	
Blank Off Sub	1.00			3555.00	205.61 Tool Interval
Packer	5.00			3560.00	
Bottom Packer	5.00			3565.00	
Anchor	5.00			3570.00	
Change Over Sub	0.75			3570.75	
Drill Pipe	159.11			3729.86	
Change Over Sub	0.75			3730.61	
Anchor	10.00		Inside	3740.61	
Recorder	0.00	9139	Outside	3740.61	
Bullnose	5.00			3745.61	1000234.61 Bottom Packers & Anchor

Total Tool Length: 235.61



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company

11-21s-14w

9431 East Central suite 100
Wichita, Kansas 67206-2563

Gene Budig

Job Ticket: 01101

DST#: 4

ATTN: Renee Husted

Test Start: 2017.11.14 @ 04:02:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 8.79 in³
Resistivity: ohm.m
Salinity: 6600.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	water	1.403

Total Length: 100.00 ft Total Volume: 1.403 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Mud-Co / Service Mud Inc.

Operator FG Holl County Stafford State Kansas Pump 6 X 14 X 60 SPM Casing Program 8 5/8" @ 875 ft.
 Well Zoe Garrett Unit #1-11 Location _____ GPM _____ 8.22 BPM _____ " @ _____ ft.
 Contractor Duke Drilling #4 Sec 11 TWP 21S RNG 14W D.P. 4.5 in. _____ 231 FT/MIN R.A. _____ " @ _____ ft.
 Stockpoint Hays, Kansa Date 11/4/2017 Engineer Jason Whiting Collar 6.25 in. 450 ft. 420 FT/MIN R.A. Total Depth 3735' ft.

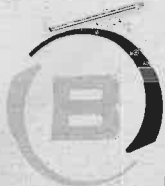
DATE	DEPTH feet	WEIGHT lb/gal	VISCOSITY			GELS 10 sec / 10 min.	pH Strip_ Meter_	FILTRATION/FILTRATION ANALYSIS					SAND %	RETORT			L.C.M.	Pump Press. PSI	CUMULATIVE COST	REMARKS AND TREATMENT
			Sec API @_F	PV @_F	Yp			ml API	Cake 32nds	Pres. #/BBL	Cl ppm	Ca ppm		Solids %	Oil %	Water %				
11/3	0																			
11/5	875	10.1	35				7.0	N/C				3,800	Hvy	12.6		87.4	Tr			
11/6	1388	8.8	29				7.0	N/C				15,200	Hvy	2.6		97.4				
11/7	2104	8.9	45	11	13	8/33	7.0	10.8	1			45m	2,760	1.6		98.4				
11/8	2596	8.5	72	31	19	17/52	10.5	6.8	1			4,200	20	2.0		98.0				
11/9	3107	8.9	55	17	17	10/43	10.5	6.4	1			5,800	20	4.0		96.0				
11/10	3425	9.3	68	20	16	14/48	9.5	6.8	1			7,000	40	6.7		93.3				
11/11	3532	9.4	58	18	15	10/47	10.5	8.0	1			6,000	20	7.5		92.5				
11/12	3696	9.3	56	20	17	9/35	9.0	7.2	1			6,000	20	6.8		93.2				
11/13	3705	9.1	51	14	12	9/38	8.5	8.8	1			6,600	60	5.4		94.6				
11/14	3735	9.2	42	12	10	7/26	9.5	8.0	1			7,100	20	6.0		94.0				
11/15	3735																			
																			RURT	
																			Run 8 5/8".	
																			TIH w/ bit	
																			3 Drlg. Displaced w/ Starch @ 1680'	
																			0 TOH f/ repair Displaced w/ chemical @ 2596'	
																			3 Drlg.	
																			Drg. DST #1 @ 3532'	
																			TIH w/ bit DST #2 @ 3696'	
																			TIH w/ DST 2 DST #3 @ 3705'	
																			CTCH DST #4 straddle (3535'-3540')	
																			DST 4	
																			RDRT	
																			FINAL: Ran 4 DST's, Logs OK, Plugged well	
																			Reserve Pit, Chl content ppm: 27,000 ppm	
																			ed Volume: 900 bbls	

MUD-CO / SERVICE MUD INC.
 100 S. Main Suite #310
 Wichita, Ks. 67202
 316/264-2814 Fax: 316/264-5024

DRILLING MUD RECAP

Materials	Sacks	Amount	Materials	Sacks	Amc
C/S HULLS	16		X-CIDE 102W	1	
CAUSTIC SODA	12				
CO-POLY-L	1				
DESCO	4				
DRILL PAK	4				
LIME	4				
PREMIUM GEL	345				
SODA ASH	25				
STARCH	58				
SUPER LIG	10				

	Amount
Total Mud Cost	
Trucking Cost	
Trucking Surcharge	
Taxes	
TOTAL COST	



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 16091 A

DATE _____ TICKET NO. _____

DATE OF JOB 11/11/11		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		LEASE		WELL NO.			
ADDRESS		COUNTY		STATE			
CITY		STATE		SERVICE CREW			
AUTHORIZED BY		JOB TYPE:					

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
11143	3						11/11/11			
	5					ARRIVED AT JOB				1:30
						START OPERATION				
						FINISH OPERATION				
						RELEASED				
						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: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
11143	10/40 TUB	LB	100		
11143	100 TUB	LB	100		
11143	CEMENT GEL	LB	100		
11143	100 TUB	LB	100		
11143	100 TUB	LB	100		
11143	100 TUB	LB	100		
11143	100 TUB	LB	100		
11143	100 TUB	LB	100		
11143	100 TUB	LB	100		
11143	100 TUB	LB	100		

SUB TOTAL

CHEMICAL / ACID DATA:			

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

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

FIELD SERVICE ORDER NO.

Customer FG HOLL CO.	Lease No.	Date 11-14-2017
Lease 20E/GARRETT UNIT	Well # 1-11	
Field Order # 16091	Station PRATT, KS.	Casing 1 1/2" D.P.
Type Job CNW - P.T.H.	Formation	Legal Description 11-215-14W
		County STAFFORD State KS

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
			CMT-	190 SK 60/40 P02				
Depth	Depth	From	To	Pre Pad	Max			
				21.43 CVF	RWA @	3700'	5 Min.	
Volume	Volume	From	To	Pad	Min			
					@	900'	10 Min.	
Max Press	Max Press	From	To	Frac	Avg			
					@	250'	15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used			Annulus Pressure
					@	600'		
Plug Depth	Packer Depth	From	To	Flush	Gas Volume			Total Load
					R.H.			

Customer Representative ROB LONG	Station Manager J. WESTERMAN	Treater K. LESLEY			
Service Units	78568	84981	19843	19889	21010
Driver Names	LESLEY	McGIRAN	CLYMER		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1:30PM					ON LOCATION - SAFETY MEETING
3:20PM					*1ST PLUG @ 3700' w/ 50SK 60/40 P02 @ 13.78
3:35PM	400		20	6	H2O AHEAD
3:38PM	400		12	6	CMT @ 13.78 PPG
3:40PM	400		5	6	H2O BEHIND
3:45PM	350		38	6	MUD BEHIND
5:00PM					*2ND PLUG @ 900' w/ 50SKS
5:10PM	200		5	5	H2O AHEAD
5:13PM	200		12	5	CMT @ 13.78 PPG
5:15PM	150		8	5	H2O BEHIND
5:30PM					*3RD PLUG @ 250' w/ 40SKS
5:32PM	50		5	4	H2O AHEAD
5:33PM	50		10	4	CMT @ 13.78 PPG
5:37PM	0		2	4	H2O BEHIND
6:17PM					<1/2" PLUG @ 100' w/ 20SKS
6:20PM	0		5	1	MIX CMT. TO SURFACE
6:30PM	0		7.5	1	RATHOLE PLUG
					CIRC. THRU JOB
					JOB COMPLETE
					THANKS -
					KEVEN LESLEY



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 16130 A

DATE _____ TICKET NO. _____

DATE OF JOB: <u>11/15/11</u> DISTRICT: _____		NEW WELL <input type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.: _____							
CUSTOMER: _____		LEASE: _____ WELL NO.: <u>111</u>							
ADDRESS: _____		COUNTY: _____ STATE: _____							
CITY: _____ STATE: _____		SERVICE CREW: _____							
AUTHORIZED BY: <u>Rob King</u>		JOB TYPE: <u>336 336 336 336</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM PM	TIME
<u>70970</u>	<u>.25</u>					ARRIVED AT JOB	<u>11/15/11</u>	<u>AM</u>	<u>5:00</u>
<u>1538</u>	<u>.5</u>					START OPERATION	<u>11/15/11</u>	<u>AM</u>	<u>11:00</u>
						FINISH OPERATION	<u>11/15/11</u>	<u>AM</u>	<u>12:00</u>
						RELEASED	<u>11/15/11</u>	<u>AM</u>	<u>1:00</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: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<u>CR41</u>	<u>1/2" Thick Concrete</u>	<u>sq</u>	<u>175</u>		
<u>CR42</u>	<u>1/2" Thick Concrete</u>	<u>sq</u>	<u>175</u>		
<u>CR43</u>	<u>1/2" Thick Concrete</u>	<u>sq</u>	<u>175</u>		
<u>CR44</u>	<u>1/2" Thick Concrete</u>	<u>sq</u>	<u>175</u>		
<u>CR45</u>	<u>1/2" Thick Concrete</u>	<u>sq</u>	<u>175</u>		
<u>CR1773</u>	<u>1/2" Thick Concrete</u>	<u>sq</u>	<u>175</u>		
<u>F40</u>	<u>1/2" Thick Concrete</u>	<u>sq</u>	<u>175</u>		
<u>F41</u>	<u>1/2" Thick Concrete</u>	<u>sq</u>	<u>175</u>		
<u>F42</u>	<u>1/2" Thick Concrete</u>	<u>sq</u>	<u>175</u>		
<u>CR211</u>	<u>1/2" Thick Concrete</u>	<u>sq</u>	<u>175</u>		
<u>CR210</u>	<u>1/2" Thick Concrete</u>	<u>sq</u>	<u>175</u>		
<u>CR3</u>	<u>1/2" Thick Concrete</u>	<u>sq</u>	<u>175</u>		
<u>CR304</u>	<u>1/2" Thick Concrete</u>	<u>sq</u>	<u>175</u>		

SUB TOTAL

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		<u>6575</u>

SERVICE REPRESENTATIVE: _____	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: _____
-------------------------------	---

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

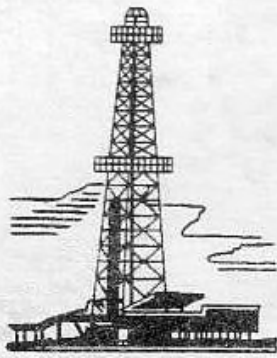
Customer <i>2501 Hill Country</i>		Lease No.		Date <i>11/5/17</i>	
Lease <i>201 Bonnett Road</i>		Well # <i>1-11</i>			
Field Order # <i>11130</i>	Station <i>Pratt</i>	Casing <i>KS</i>	Depth <i>2116</i>	County <i>Pratt</i>	State <i>KS</i>
Type Job <i>5 1/2" Surface Pipe</i>	Formation <i>2117</i>			Legal Description	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>2 1/2"</i>	<i>2 1/2"</i>	From	To	Pre Pad	Max		5 Min.	
Depth <i>2116</i>	Depth	From	To	Pad	Min		10 Min.	
Volume <i>55253</i>	Volume	From	To	Frac	Avg		15 Min.	
Max Press <i>300</i>	Max Press	From	To					
Well Connection <i>5 1/2"</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>2116</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative <i>John Lane</i>	Station Manager <i>Justin Bartman</i>	Treater <i>Scott Brown</i>
---	--	-------------------------------

Service Units <i>2000</i>	<i>2000</i>	<i>2000</i>	<i>2000</i>	<i>2000</i>	<i>2000</i>	<i>2000</i>	<i>2000</i>	<i>2000</i>	<i>2000</i>
Driver Names <i>Kevin Kelly</i>	<i>Kevin Kelly</i>	<i>Kevin Kelly</i>	<i>Kevin Kelly</i>	<i>Kevin Kelly</i>	<i>Kevin Kelly</i>	<i>Kevin Kelly</i>	<i>Kevin Kelly</i>	<i>Kevin Kelly</i>	<i>Kevin Kelly</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>5:00</i>					<i>On location setup, making rigup</i>
<i>9:30</i>					<i>Pre treat equipment, 1, 2, 15</i>
<i>11:35</i>					<i>Frack circulation</i>
<i>11:43</i>	<i>200</i>			<i>5</i>	<i>Pump 100 gal</i>
<i>11:44</i>	<i>150</i>		<i>3</i>	<i>5</i>	<i>Start to the cement 12:11</i>
<i>12:00</i>	<i>200</i>		<i>71.98</i>	<i>5</i>	<i>Start cement cement 12:11</i>
<i>12:07</i>	<i>0</i>		<i>37.1</i>	<i>0</i>	<i>Start down</i>
<i>12:19</i>	<i>0</i>			<i>0</i>	<i>Release Plug</i>
<i>12:10</i>	<i>100</i>			<i>5</i>	<i>start Displacement</i>
<i>12:16</i>	<i>250</i>		<i>35</i>	<i>5</i>	<i>cement circulated to bit</i>
<i>12:26</i>	<i>300</i>		<i>197</i>	<i>0</i>	<i>Start down</i>
<i>12:21</i>	<i>250</i>			<i>0</i>	<i>Start on well head</i>
<i>12:22</i>	<i>0</i>			<i>0</i>	<i>Release pressure on surface</i>
					<i>To complete</i>



WELLSITE GEOLOGIST'S REPORT

J. R. Husted
Consulting Geologist



Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: ZoeGarrett No 1-11
Location: SEC 11-T21S-R14W
License Number: 15-185-23
Spud Date: NOV-4-2017
Surface Coordinates: C S/2 SW SW

Region: STAFFORD
Drilling Completed: NOV-13-2017

Bottom Hole VERTICAL
Coordinates:
Ground Elevation (ft): 1922' K.B. Elevation (ft): 1931'
Logged Interval (ft): 1750' To: 3735' Total Depth (ft): 3735'
Formation: LANSING/KS , ARBUCKLE
Type of Drilling Fluid: STARCH/CHEMICAL

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: F.G. HOLL COMPANY
Address: 9431 E. CENTRAL STE 100
WICHITA, KANSAS 67206

GEOLOGIST

Name: RENE HUSTEAD
Company: HUSTEAD EXPLORATION
Address: 4714 N. PORTWEST CIR, WICHITA, KANSAS 67204

DRILLING CONTRACTOR

DUKE RIG #4
DOUBLE DERRICK; DP-4.5 X H(20#); DC 6.25" X 2.25" X 500 FT; KELLY BUSHING 9 FT ABOVE GROUND
LEVEL; HECTOR TORRES (TOOL-PUSHER)

SURFACE CASING

SURFACE CASING SET AT 8 5/8 INCHES AT 875' WITH 350 SACS OF CEMENT

GAS DETECTION

ANALOG UNIT MBC INC HW/CHROM (FROM 1600' TO 3735')


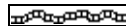
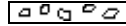









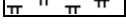

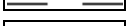
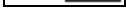












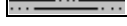

CIRCULATION SYSTEM

MUD PUMP IDECO MM550 -PP 750;BB/STRK .156; STK/MIN 57;BB/MIN 8.9 ;373 GAL/MIN;EARTH PITS;MUD CO SERVICE INC-JASON WHITING ; CELL-620-792-4544

ELECTRIC LOGS

DUAL COMPENSATED POROSITY,MICRO LOG;DUAL INDUCTION LOG;FRAC FINDER; BORE HOLE COMPENSATED;SONIC LOG;MICRO RESISTIVITY LOG; PIONEER ENERGY SERVICES;RECORDED BY J HENRICKSON.

ROCK TYPES









 Anhy  Bent  Brec  Cht  Clyst  Coal  Congl  Dol	 Gyp  Igne  Lmst  Meta  Mrlst  Salt  Shale  Shcol	 Shgy  Slstst  Ss  Till  Carb sh  Dol  Dtd  Gry sh	 Sandylms  Shale  Slststn  Shlyslts  Sltysh  Lms
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ACCESSORIES

FOSSIL

	Algae
	Amph
	Belm
	Bioclst
	Brach
	Bryozoa
	Cephal
	Coral
	Crin
	Echin
	Fish
	Foram
	Fossil
	Gastro
	Oolite
	Ostra
	Pelec
	Pellet
	Pisolite
	Plant
	Strom
	Fuss
	Oomold

MINERAL

	Anhy
	Arggrn
	Arg
	Bent
	Bit
	Brecfrag
	Calc
	Carb
	Chtdk
	Chtlt
	Dol
	Feldspar
	Ferrpel
	Ferr
	Glau
	Gyp
	Hvymin
	Kaol
	Marl
	Minxl
	Nodule
	Phos
	Pyr





	Salt
	Sandy
	Silt
	Sil
	Sulphur
	Tuff
	Chlorite
	Dol
	Sand
	Slty














	Dol
	Grysh
	Gryslt
	Lms
	Sandylms
	Sh
	Slststn

STRINGER

	Anhy
	Arg
	Bent
	Coal
	Dol
	Gyp
	Ls
	Mrst
	Slststrg
	Ssstrg
	Carbsh
	Clystn

TEXTURE

	Boundst
	Chalky
	Cryxln
	Earthy
	Finexln
	Grainst
	Lithogr
	Microxln
	Mudst
	Packst
	Wackest

COMPLETION

DRY AND ABANDONED

Curve Track 1

ROP (min/ft)

GE:



Depth

Lithology

Oil Shows

Geological Descriptions

TG (units)

C1 (units)

C2 (units)

C3 (units)

C4 (units)

C5 (units)

TG, C1-C5



0.1 ROP (min/ft) 5
1 GE: 1000

17

1 TG, C1-C5 10 100 1000

1750

SURVEYS

- 875' .25 DEG
- 1388' .75 DEG
- 2356' .25 DEG
- 2861' .75 DEG
- 3532' .25 DEG
- 3735' 1.0 DEG

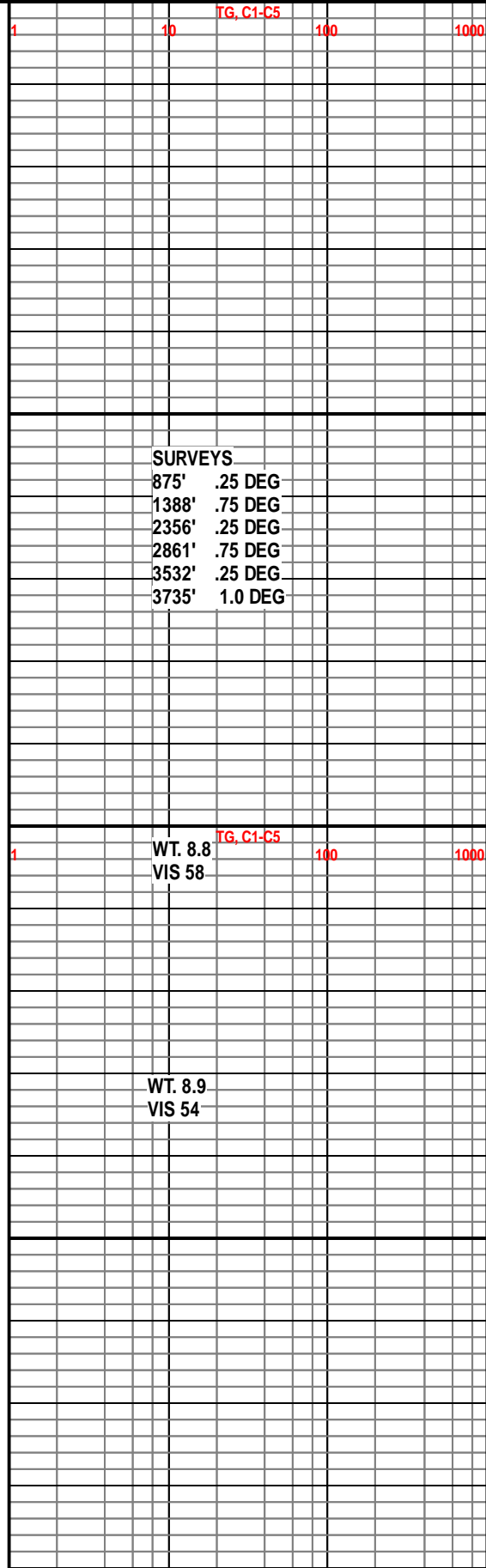
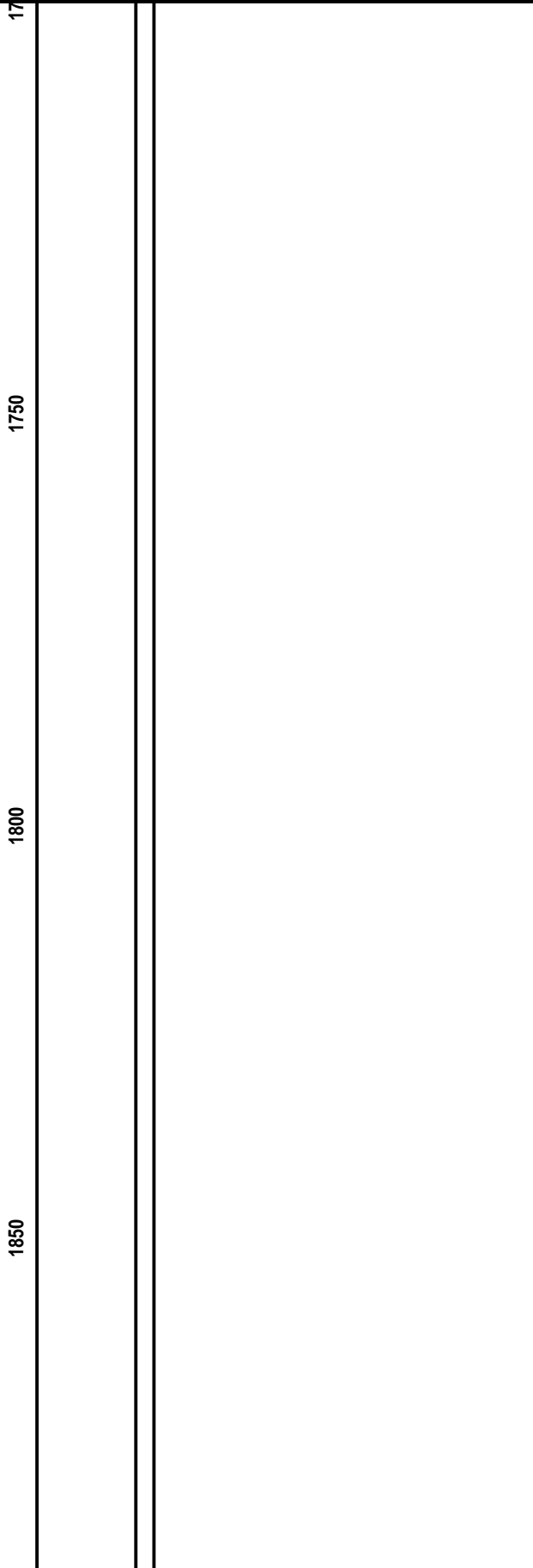
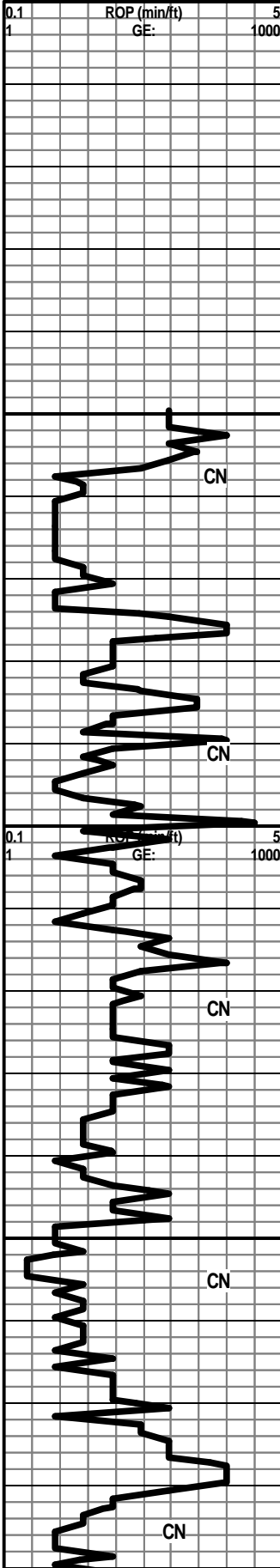
0.1 ROP (min/ft) 5
1 GE: 1000

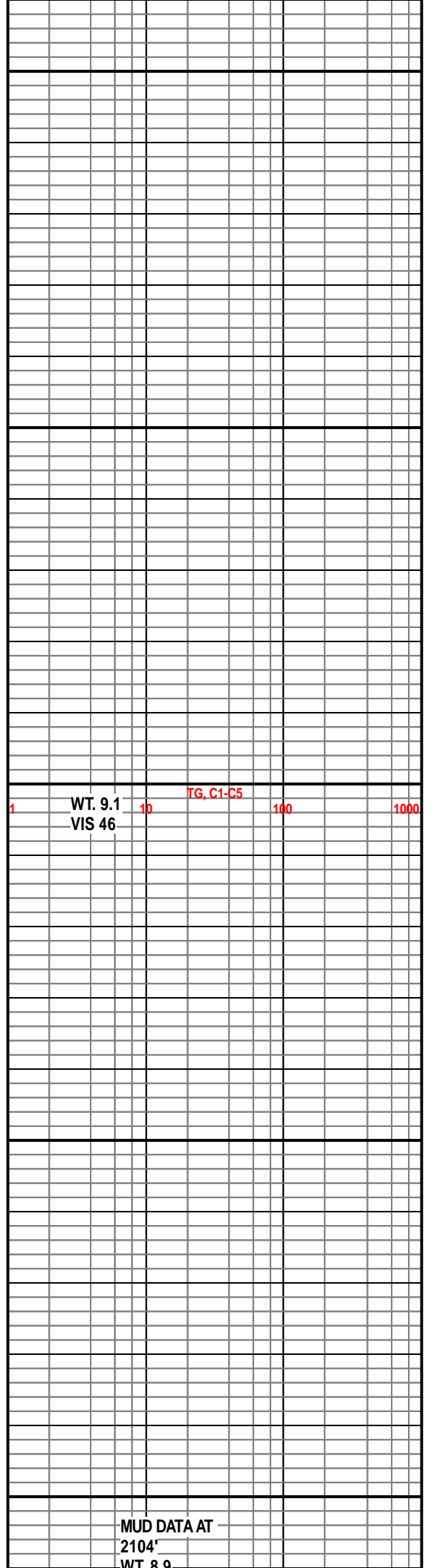
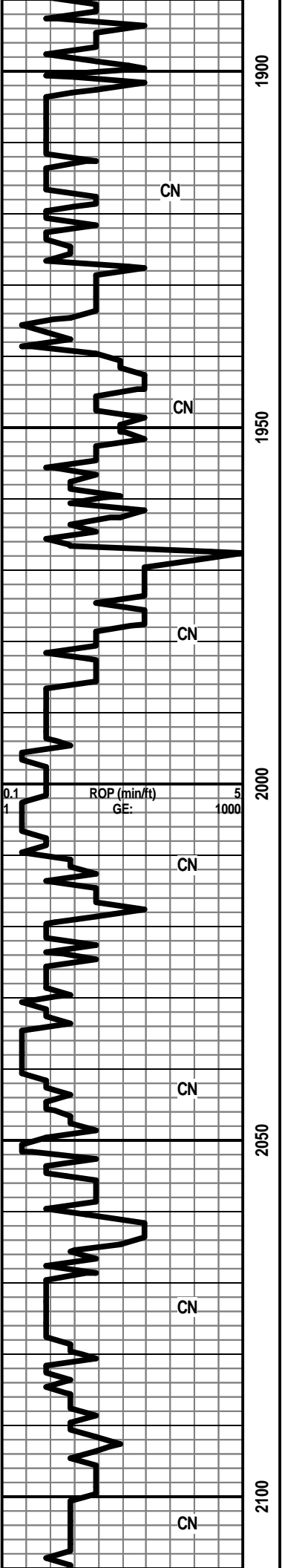
1800

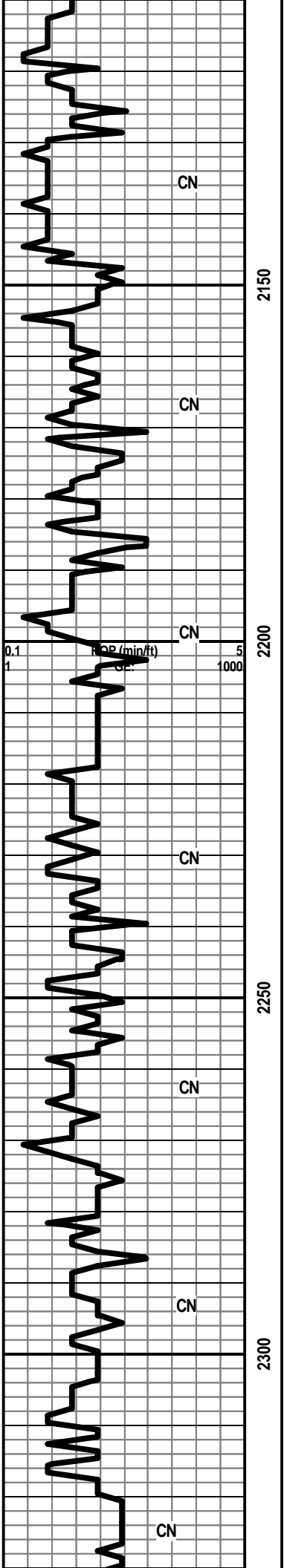
1 WT. 8.8 TG, C1-C5 100 1000
VIS 58

WT. 8.9
VIS 54

1850







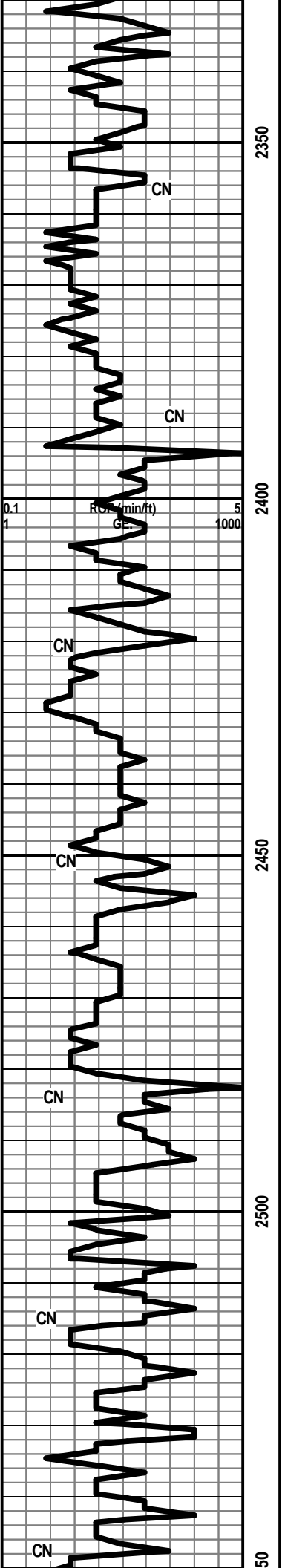
WT. 9.3
 VIS 45
 FIL 10.8
 LCM 0

TG, C1-C5

1 10 100 1000

WT. 9.2
 VIS 43

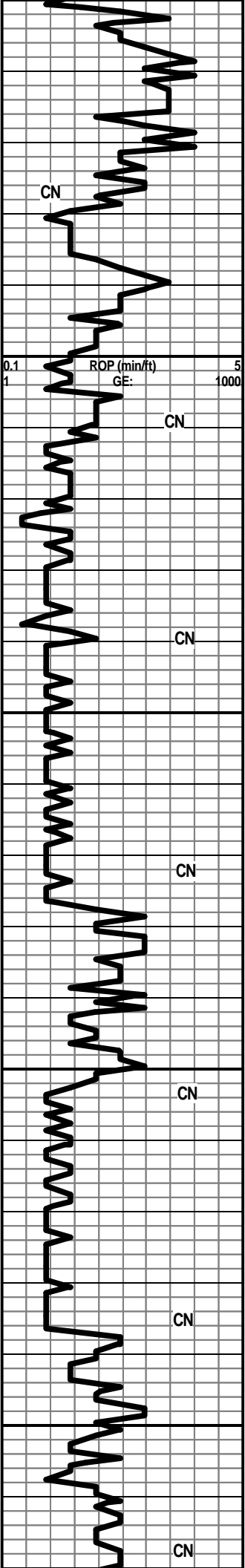
WT. 9.4
 VIS 41



WT. 9.4
VIS 70

TG, C1-C5

WT. 9.4
VIS 51



25
2600
2650
2700
2750

LS-TN/GRY-F-XLN-FOSS-FUS-SHLY-HD-DNS

SH-DK GRY-FRM-BLKY

LS-TN/GRY-LG-GRN-FOSS-SHLY-PR
INTER-GRN POR-HD

SH-GRY-V-SFT

POOR SAMPLES

POOR SAMPLES

SH-GK GRY-SILTY

STOTLER 2677' (-746')

LS-TN-F-XLN-FOSS-HD-DNS W/
CHRT-GRY-OPQ-FRSH

LS-TN-F-XLN-HD-DNS

SH-LT GRY-SILTY

SH A.A.

SH-LT GRY-SILTY-PYR

TARKIO 2737' (-806')

LS-DK BRN-F-XLN-OOL-HD-DNS

SH-GRY-SFT-BLKY

LS-TN-F-XLN-FOSS-HD-DNS W/ CHRT

SH-DK GRY-SFT

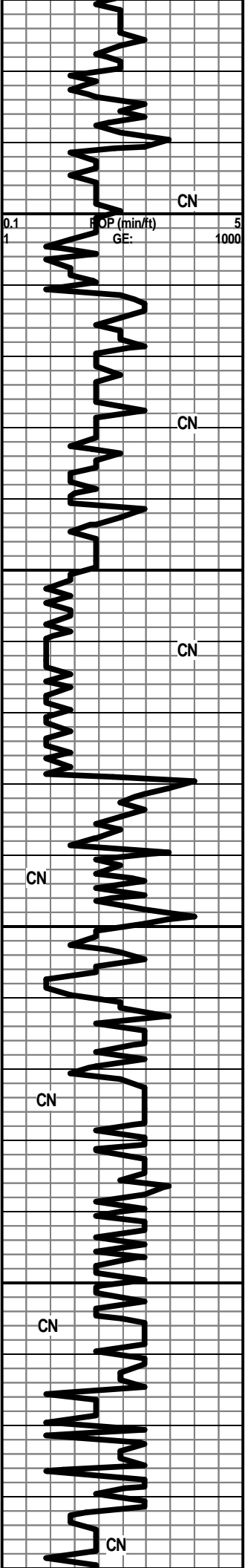
LS-TN-F-XLN-FOSS-HD-DNS

GEOLOGIST ON
LOCATION

MUD DATA AT

1 10 TG, C1-C5 2596' 1000
WT. 8.5
VIS 72
FIL 6.8
LCM 0

WT. 9.3
VIS 58



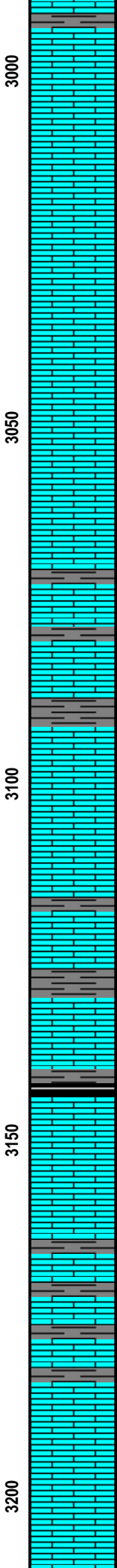
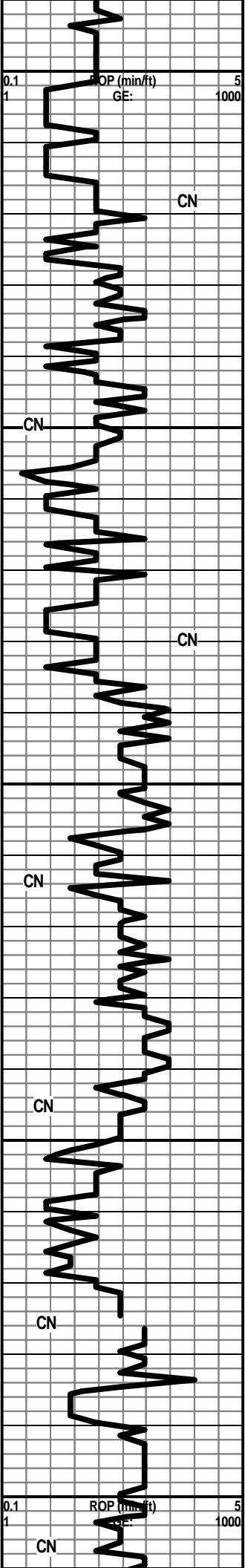
2800
2850
2900
2950

LS A.A.
 SH-DK GRY-BLKY-WAXEY
 LS-LT BRN-F-GRN-BLK FOSS-HD-DNS
 SH-GRY-BLKY-LMY
 SH-GRY-BLKY-FOSS-LMY
 MISSING SAMPLES
 SH-GRY-BLKY-SILTY
 SH-GRY-SILTY
HOWARD 2879' (-948')
 LS-TN-F-XLN-FOSS-SHLY IP-HD-DNS
 SH-DK GRY-BLKY
 SH-GRY-GUMMY
 LS-OFF WHT-F-XLN-BRIT-CHLKY-FOSS
 LS A.A.
 SH-LT GRY-BLKY-LMY
 LS-LT BRN-F-XLN-HD-DNS
SEVERY 2936' (-1005')
 SH-LT GRY-BLKY-LMY
TOPEKA 2955' (-1024')
 LS-CRM/GRY MOTT-F-XLN-FOSS-SHLY-HD-DNS
 LS-CRM-F-XLN-BRIT-CHLKY-FOSS-NO VIS
 POR-LOOSE FOSS BRY
 SH-GRY/GRN-SFT
 LS-GRY-F-XLN-SHLY-V-FOSS

WT. 8.6
 VIS 55

TG, C1-C5

1 10 100 1000



SH-DK GRV-SFT

LS-OFF WHT-F-XLN-SLI CHLKY-V-BRIT-TR FOSS

LS-TN/GRV MOTT-M-XLN-FOSS-FR INTER-XLN POR-DULL WHT MIN FLOR-NS

LS A.A.

LS-TN-F-XLN-HD-DNS

LS A.A. SHLY

LS-GRV-F-XLN-HD-DNS TR SH IMBD

SH-GRV-V-FOSS-BLKY

LS-OFF WHT-F-XLN-HD-DNS W/ FOSS FRAGS W/ CHRT-CLR-FRSH

SH-GRV-LMY BLKY

LS-CRM-F-XLN-CHLKY-FOSS FRAGS-SM VUG POR-DULL WHT MIN FLOR-NO VIS SHOW

LS-TN/GRV-F-XLN-FOSS-CHRTY-HD-DNS

LS-CRM-F-XLN-V-FOSS-HD-DNS W/ CHRT-GRV-OPQ-FRSH-FOSS

SH-BLK-CARB
SLTSS-FRSTY GRV-F-GRN-SHLY-MICA-DARK MINERALS

SH-BLK-CARB
LS-GRV-F-XLN-PYR XLS IMBD-HD-DNS

SH-BLK-CARB

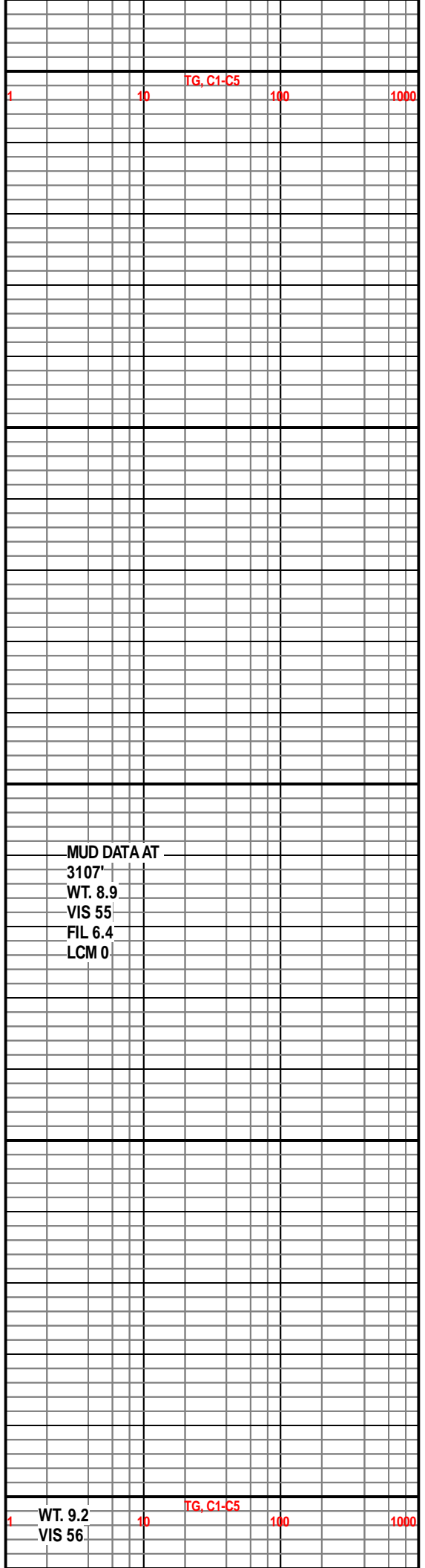
LS-CRM-F-XLN-CHLKY-FOSS-OOL-FR SM VUG AND INTER-XLN POR-NO VIS FLOR-NO VIS SHOW

LS-TN-F-XLN-FOSS-OOL-HD-DNS

LS-CRM-F-GRN-V SM FOSS FRAGS-OOL-BRIT-GD INTER-GRN/FOSS POR-NO VIS STN/FLOR/CUT

LS-OFF WHT-F-GRN-CHLKY-SM VUG POR-TR DK GRV SH IMBD-NO VIS FLOR-NO VIS CUT

LS-TN-F-XLN-HD-DNS TR FRAC W/ SH GY IMBD



LS-TN-F-XLN-W/ EDGE XLS-NO VIS STN-GLD
FLOR-GD STRM CUT-NO ODOR

SH-BLU/GRY-BLKY AND SPLNTY
LS-TN-F-XLN-HD-DNS W/SH-LT GRY

HEEBNER 3244' (-1313')

SH-BLK-CARB

GAS INCRS 30
UNIT

LS-CRM-F-XLN-SLI FOSS-HD-DNS

SH-LT GRY-GUMMY

LS-CRM-F-GRN-TR FOSS-CHLKY-BRIT-PR TO
FR INTER-GRN POR-DULL WHT MIN FLOR-NO
VIS SHOW

GAS INCRS 7 UNIT

LS-CRM-F-XLN-HD-DNS

SLTSS-FRSTY GRY-F-GRN-SHLY-HEM

WT. 9.2
VIS 53

SH-GRY-SFT-V-SILTY

POOR SAMPLE

SH-GRY-V-SFT-GUMMY

SH-LT GRY-V-SILTY

SH A.A.

SH-LT GRY-V-SFT-GUMMY

BROWN LS 3362' (-1431')

LS-BRN-F-XLN-HD-DNS W/ SM PYR XLS IMBD
IP

LANSING/KC 3372' (-1441')

LS-CRM-F-XLN-FOSS-TR PR INTER-XLN
POR-HD -DNS-SPOTTED FLOR-NO VIS CUT

GAS INCRS 12
UNITS

SHORT-TRIP AT
3382'

LS-TN-F-XLN-HD-DNS W/ SH-GRY-BLKY

LS A.A.

SH-DK GRY

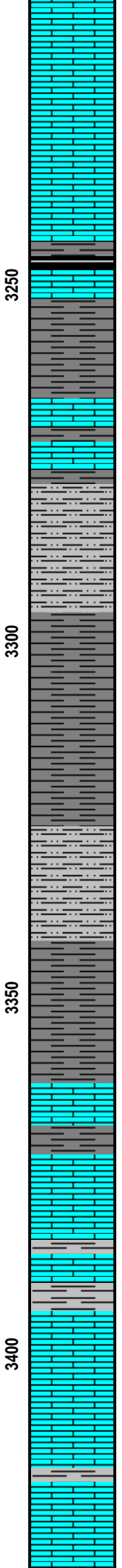
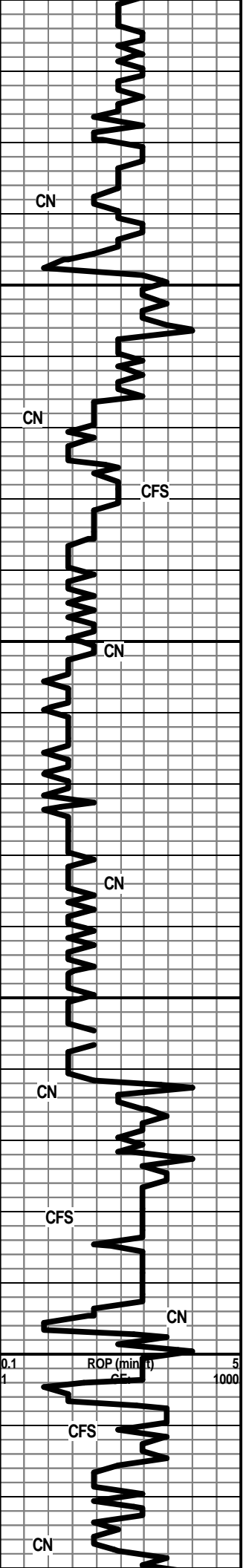
LS-LT BRN-F-XLN-FOSS-OOL-FR TO GD
OOL-MOLDIC POR-WHT MIN FLOR-NO VIS CUT

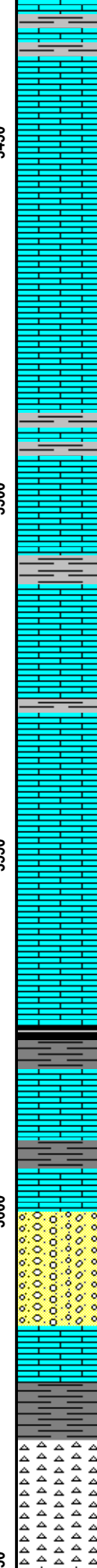
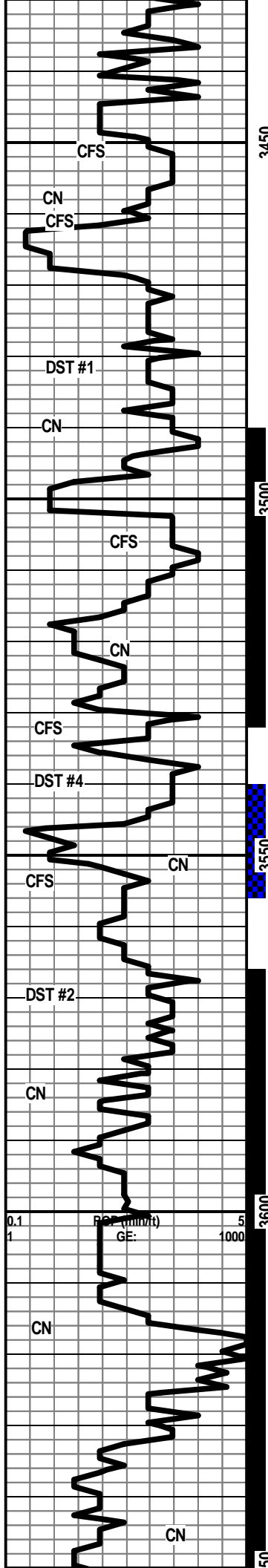
GAS INCRS 10 UNITS
TG, C1-C5 10 100 1000

LS-LT BRN-V-OOL-PR VUG POR IP-DULL WHT
MIN FLOR-NO VIS CUT -ABUNDT CHLK IN
TRAY

LS-BRN-V-OOL-PR OOL-MOLDIC POR-SCATT
YEL FLOR-NO VIS CUT-NO VIS SHOW-

MUD DATA AT
3425'





ABUNDT CHLK IN TRAY

LS-OFF WHT-F-XLN-SM FOSS FRAGS-OOL-PR TO FR INTER-XLN/VUG POR-BRIGHT MIN FLOR-NO VIS STN-V-SLI ODOR-POSS SSFO

LS-TN-F-XLN-OOL-FR TO GD OOL-MOLDIC POR-DULL MIN FLOR-BARREN

LS -TN-F-XLN- FOSS-OOL-HD-DNS

LS.A.A. W/ CHRT-GRY-OPQ-FRSH

LS-TN-F-XLN/SLI SUCR-OOL-FR INTER-XLN AND OOL-MOLDIC POR-SCATT YEL FLOR-TR LT BRN STN-WK CUT-V-FNT ODOR - CHLK (20%) IN TRAY

LS-CRM-F-XLN-OOL-FOSS-PR TO FR INTER-XLN POR-TR LT BRN STN-WK CUT-SCATT YEL FLOR-FNT ODOR-SSFO CHLK IN TRAY

LS-TN-F-XLN-V-OOL-TR FOSS FRAGS-PR TO FR INTER-XLN AND FOSS VUG POR-ABUNDT CHLK IN TRAY-TR LT BRN STN-WK CUT-FNT ODOR

SH-GRY-SPLNTY

LS-OFF WHT-F-XLN-HD-DNS W/CHRT-OPQ-FRSH WITH CHLK IN TRAY

LS-TN-F-XLN-OOL-FR TO GD OOL-MOLDIC POR-TR LT BRN STN-WK CUT-FNT ODOR

LS-CRM-F-XLN-SM OOL-HD-DNS

LS-CRM-F-XLN-OOL-PR INTER-XLN/VUG POR-TR LT BRN STN -SCATT YEL FLOR-V-WK CUT-V-FNT ODOR -CHALK IN TRAY

LS-LT GRY-F-XLN-HD-DNS W/ CHRT-OFF WHT-OPQ-FRSH

SH-BLK-CARB

SH-DK GRY-SPLNTY

LS-CRM-F-XLN-SM OOL-BRIT-CHLKY-TR OF FRAC-SCATT WHT FLOR-NO VIS CUT

CONGLOMERATE

SH-RED/GRY-BLKY-CHRT-TN-OPQ-FRSH- OOL IP

VIOLA 3618' (-1687)

LS-TN-F-XLN-TR FOSS-HD-DNS W/ CHRT -OFF WHT IN TRAY

CHRT-OFF WHT-FRSH IP-TRIP IP-GD PP POR IN TRIP CHRT-LT BRN STN-NO VIS FLOR-STRM CUT-FREE OIL-FNT ODOR

CHRT-OFF WHT-MSTLY FRSH-TR TRIP CHRT W/ STN-SSFO

CHRT-OFF WHT/BLK-TRIP-FINE PP POR-DK

WT. 9.3
VIS 68
FIL 6.8
LCM 0

STRAP=3551.77
BOARD=3551.46
LONG 0.31

DST #1
3490'-3592'
REC-SLI MUDDY
WATER-290'
IBLW-WK BLDING
BLW 5 1/2 INCHES
IN 10 MINUTES
FBLW-WK BLDING
BLW BLT BOB IN
34 MIN
10/60/60/90
SIP-799.87-747.4
IFP-54.9-84.14
FFP-85-181
HP-1796-1771

10 UNIT GAS INCRS

6 UNIT GAS INCRS

MUD DATA AT
3532'
WT. 9.35
VIS 58
FIL 8.0
LCM 0

8 UNIT GAS INCRS

DST #4
3540'-3555'
REC-100 WATER
IBLW-WK BLW BLT
3 1/2 IN
FBLW-WK BLW
BLT TO 4 IN
30/60/45/90
SIP-410-410
IFP-42-65
FFP-64-90
HP-1800-1711

STRADDLE TEST
AFTER LOGS
WERE RUN

DST #2
3576'-3596'
REC - 15 MUD
IBLW-WK SURF
BLOW FOR 8 MIN
AND DIED
FBLW-NO BLW
36/60/30/60
SIP-159-131
IFP-97-103
FFP-103-100
HP-1854-1827

10 UNIT GAS INCRS

GAS DETECTOR
NOT WORKING

TG, C1-C5

BLK STN-FREE OIL

SIMPSON SHALE 3656' (-1725')

SH-DK GRY-BLKY-WAXEY

SIMPSON SAND 3670' (-1739')

SS-CLR-M-GRN-FRI-WELL
SRTEd-RNDED-CALC CMT-LT BRN STN-NO VIS
FLOR-FR STRM CUT-FNT ODOR

SH-BLU-GRN-GRY-VARIG-QTZ
GRNS-FOSS-PYR-TR SS W/ DK BRN STN

ARBUCKLE 3699'

SS-CLR-M-GRN-RNDED-WELL SRTEd-DOLO CMT-LT BRN STN

ARBUCKLE 3700' (-1769')

DOLO-TN-SUCRO IP-V-SNDY-SAND EDGES-LT BRN STN

DOLO-TN-OOL IP-SUCRO-GD INTER-XLN POR/TR
OOL-MOLDIC-BRITE YEL FLOR-LT BRN STN-FR TO GD
STRM CUT-NO ODOR

DOLO-OFF WHT-F-CRS XLN-GD INTER-XLN POR-BRITE
YEL FLOR-FR CUT-FNT ODOR

DOLO-OFF WHT-M-CRS XLN-BRITEYEL FLOR-NO VIS
SHOW

DOLO A.A.

T.D. 3735'

DST #3
3650'-3705'
REC-HEAVY
MUD-70FT-SLI
MUDDY H2O-MUD
(20%) H2O
(80%)-60 FT- SLI
MUDDY H2O
(15%)-MUD- (85%)
H2O
IBLW-WK BLW BLT
TO 2 1/2 IN
FBLW-WK BLW
BLT TO 11 IN INTO

MUD DATA AT

THE WATER	3696'
15/60/45/90	WT. 9.3
SIP-1303-1303	VIS 56
IFP-71-106	FIL 7.2
FFP-93-149	LCM 0
HP-1892-1869	

MUD DATA AT

3705'
WT. 9.1
VIS 51
FIL 8.8
LCM 0

TG, C1-C5

1 10 100 1000

DST #3

CN

CN

T.D. 3735'

36

3700

3750

3800

50

0.1 ROP (min/ft) 5
1 GE: 1000