

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1252714
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1252714

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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. <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	G.B.F. 1-12
Doc ID	1252714

All Electric Logs Run

CPI
BHCS
CDL/CNL/ML
DIL
Microresistivity Log
Fracfinder
Sonic Cement Bond Log
CDL/CNL

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	G.B.F. 1-12
Doc ID	1252714

Tops

Name	Top	Datum
Anhydrite	836	+1050
Herrington	1749	+137
Winfield	1800	+86
Towanda	1870	+16
Fort Riley	1906	-20
B/Florence	2012	-126
Kinney Ls	2028	-142
Wrefold	2059	-173
Council Grove	2081	-195
Crouse	2115	-229
Neva	2256	-370
Read Eagle	2322	-436
Onaga Shale	2461	-575
Wabaunsee	2485	-599
Root Shale	2538	-652
Stotler	2605	-719
Tarkio	2663	-777
Howard	2801	-915
Topeka	2838	-952
Heebner	3131	-1245
Toronto	3144	-1258
Brown Lime	3224	-1338
LKC	3234	-1348
Drum	3364	-1478

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	G.B.F. 1-12
Doc ID	1252714

Tops

Name	Top	Datum
Stark Shale	3412	-1526
Swope	3417	-1531
Hushpuckney	3430	-1544
BKC	3450	-1564
Arbuckle	3507	-1621
RTD	3700	-1814

Customer <i>H.G. Hall</i>	Lease No.	Date <i>4-29-15</i>
Lease <i>GBF</i>	Well # <i>1-12</i>	
Field Order # <i>13417</i>	Station <i>Pratt</i>	Casing <i>8 5/8</i>
		Depth <i>832</i>
Type Job <i>CNW 8 5/8 surface</i>	Formation	County <i>BARTON</i>
		State <i>KS</i>
		Legal Description <i>12-19-14</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
<i>8 5/8</i>								
Depth <i>832</i>	Depth	From	To	Pre Pad		Max		5 Min.
Volume <i>77</i>	Volume	From	To	Pad		Min		10 Min.
Max Press <i>300</i>	Max Press	From	To	Frac		Avg		15 Min.
Well Connection <i>P.C</i>	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth <i>814</i>	Packer Depth	From	To	Flush		Gas Volume		Total Load

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Williams</i>
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Service Units	<i>37900</i>	<i>79992</i>	<i>86779</i>	<i>19826</i>	<i>19914</i>				
Driver Names	<i>Rob</i>	<i>EPN</i>	<i>Gibson</i>	<i>GRAVES</i>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>5:15</i>					<i>on loc</i>
					<i>Run 8 5/8 esp.</i>
					<i>CASING ON BOTTOM</i>
					<i>HOOK RIG CIRC</i>
<i>9:20</i>			<i>77</i>	<i>5.5</i>	<i>1# SPACER</i>
			<i>37</i>		<i>1# mix A-COM cont 175 sk 3% cc 1/4 ct</i>
					<i>1# mix COMON. cont 175 sk 2% cc 1/4 ct</i>
					<i>cont mix O-shot down</i>
					<i>Release Plug</i>
				<i>4.5</i>	<i>1# DISC</i>
<i>10:00</i>			<i>52</i>		<i>plug down</i>
					<i>CIRC 20 RAC cont Pit</i>
					<i>JOB COMPLETE</i>
					<i>Thank U</i>

WELLSITE GEOLOGIST REPORT

WELLSITE GEOLOGIST'S REPORT

J. R. Husted
Consulting Geologist



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

Well Name: EBF No 1-12
Well Id:
Location: Sec 12-T19S-R14W
License Number: 15-009-26096-0000
Spud Date: April 28-2015
Surface Coordinates: 1815' FNL, 1675' FWL, 165' N., 25' E. of C W/2 SE NW
Region: BARTON, KS
Drilling Completed: May 9-2015
Bottom Hole Coordinates: VERTICAL
Ground Elevation (ft): 1878' K.B. Elevation (ft): 1886'
Logged Interval (ft): 1650' To: 3700' Total Depth (ft): 3700'
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: 600 N. WINWOOD ST
GARDNER, KANSAS 66030

ROCK TYPES

Anhy	Igne	Shgy	Sandylms
Bent	Lmst	Siltst	Shale
Bioclst	Meta	Ss	Siltstn
Cht	Mrfst	Till	Shlystls
Coal	Salt	Carb sh	Stlysh
Congl	Shale	Dol	Lms
Dol	Shcol	Dtd	
		Gry sh	

ACCESSORIES

Fossil	MINERAL	Salt	Dol
Algae	Anhy	Sandy	Grysh
Amph	Arggrn	Silt	Grysit
Belm	Arg	Sil	Lms
Bioclst	Bent	Sulphur	Sandylms
Brach	Bit	Tuff	Sh
Cephal	Breclst	Chlorite	Siltstn
Coral	Calc	Dol	
Crin	Carb	Sand	
Echin	Chtdk	Sity	
Fish	Chtlt		
Foram	Dol		
Fossil	Dol		
Gastro	Ferrpel		
Oolite	Ferr		
Ostra	Glau		
Pelec	Gyp		
Pellet	Hvymn		
Pisolite	Kaol		
Plant	Marl		
Strom	Minxl		
Fuss	Nodule		
Oomold	Phos		
	Pyr		

DRILLING CONTRACTOR

DUKE RIG #2, DRILL PIPE 4.5 INCHES X H (16.6#), COLLARS 6.25 X 2.25 X 495', BIT 7 7/8 INCHES, 3-15 JETS, DOUBLE DERRICK, KELLY BUSHING 8 FT ABOVE GROUND LEVEL; Mike Godfrey (TOOL-PUSHER)

SURFACE CASING

SURFACE CASING SET AT 8 5/8 INCHES AT 834' WITH 175 SAXS OF CEMENT
PRODUCTION CASING SET AT 5 1/2 INCHES AT 3696' WITH 160 SAXS OF CEMENT

GAS DETECTION

ANALOG UNIT MBC INC HW/CHROM (FROM 1500' TO 3700')

CIRCULATION SYSTEM

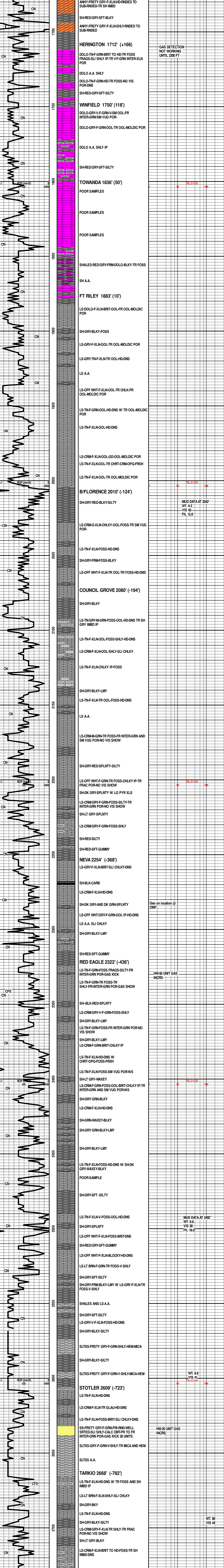
MUD CO SERVICE INC., EWCO, 14W-1400, LINER SIZE 6, STROKE 14, STRK/MIN 60 GAL/MIN, 326 GAL/MIN, RICK HUGHES- 1-620-752-5425 - GREAT BEND, KANSAS

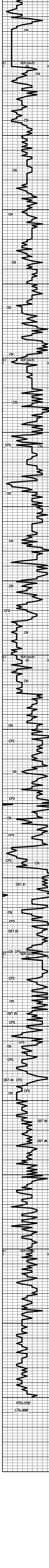
ELECTRIC LOGS

DUAL COMPENSATED PORSITY, MICRO LOG; DUAL INDUCTION LOG; FRAC FINDER; BORE HOLE COMPENSATED; SONIC LOG; MICRO RESISTIVITY LOG

COMPLETION

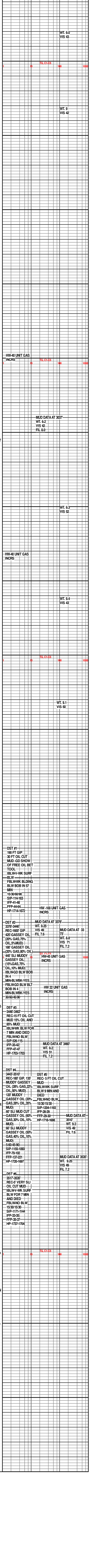
PRODUCTION CASING SET ON LANSING/KC AND ARBUCKLE





SH-GRY/GRN-BLKY-SILTY
 LS-OFF WHT-F-GRN-HD-DNS
 SH-LT GRY-SILTY
 SH-A.A.
HOWARD 2804' (-918')
 LS-LT BRN-V-F-XLN-HD-DNS
 SH-GRY-BLKY-SILTY
 LS-TN-F-XLN-HD-DNS TR FOSS
 LS-A.A.
 LS-CRM-F-GRN-BRIT-CHLKY-TR FOSS-DNS
 SH-GRY-BLKY-LMY
 LS-TN-V-F-XLN-SH-IMBD-DNS W/ TR FRAC
 LS A.A.
 LS-GRY-F-XLN-HD-DNS
 SH-GRY-BLKY-LMY
TOPEKA 2888' (-1002')
 LS-GRY/TN-F-XLN-HD-DNS W/
 SH-GRY-BLKY-LMY
 SH-GRY-BLKY-LMY-FOSS
 LS-CRM-F-XLN-TR FOSS-HD-DNS
 LS A.A.
 LS-CRM-F-GRN-BRIT-FOSS-TR INTER-GRN
 POR-SCATT YEL FLOR-NO VIS CUT-NO VIS
 SHOW
 LS-CRM-GRY-F-GRN-HD-FOSS-OOL-DNS
 LS-CRM-F-GRN-HD-DNS W/
 CHRT-GRY-OPQ-FRSH
 SH-GRY-BLKY-SILTY
QUEEN SH 2976' (-1090')
 SH-BLK-CARB
 SH-GRY-FRM-FOSS-LMY
 LS-CRM-F-XLN-V-FOSS IP-HD-DNS
 SH-GRY-SPLNTY
 LS-CRM-GRY-F-XLN-FOSS-FUS-HD-DNS
 LS A.A. W/ LG PYR XLS IN TRAY
 SH-GRY-FRM-BLKY-FOSS
 LS-CRM-F-GRN-FOSS-BRIT TO HD-SLI
 CHLKY-DNS
KING SH 3044' (-1158')
 SH-BLK-CARB
 LS-CRM-GRY-F-XLN-HD-FOSS-SM PYR XLS
 IMBD-DNS
 LS-CRM-M-GRN-FOSS-PR TO FR INTER-GRN
 POR-DULL WHT MIN FLOR-NO VIS CUT-20 UNIT
 GAS INCREASE
 POOR SAMPLE
 POOR SAMPLE
 LS-OFF WHT-F-XLN-OOL-FR TO GD
 OOL-MOLDIC POR-DULL WHT FLOR-NO VIS
 CUT
 LS-CRM-V-F-GRN-HD-DNS W/
 CHRT-TN-OPQ-FRSH
 LS AND CHRT A.A.
 LS-OFF WHT-F-GRN-TR FOSS-BRIT-DNS-DULL
 WHT MIN FLOR-NO VIS CUT
 LS-CRM-GRY-F-GRN-CHLKY IP-FOSS-TR PP
 POR-DULL WHT FLOR-NO VIS SHOW -PYR
 XLS AND FOSS-FUS IN TRAY
HEEBNER 3134' (-1248')
 SH-BLK-CARB
 HW-40 UNIT GAS
 INCRS
TORONTO 3148' (-1260')
 LS-OFF WHT-F-GRN-BRIT-CHLKY-DULL WHT
 MIN FLOR-NO VIS POR-NO VIS CUT-10 UNIT
 GAS INCRS
DOUGLAS SH 3165' (-1279')
 SH-RED-GRN-GRY-BLKY-SILTY IP
 SH-GRY-GRN-RED-SPLNTY W/
 LS-CRM-F-XLN-FOSS-HD-DNS
 SH-GRY-GRN-SPLNTY-TR SILTY
 SH-GRY-SILTY
 SH-GRY-BLKY-SILTY
BROWN LS 3226' (-1340')
LANSING/KC 3238' (-1352')
 LS-OFF WHT-F-XLN-PR TO FR INTER-GRN
 POR-LT BRN STN-NO VIS FLOR-GD STRM
 CUT-GD OODOR-10 UNIT GAS INCRS
 LS-TN-F-XLN-HD-DNS W SH-LT
 GRY-FRM-BLKY-FOSS
 LS A.A. W/ CHLK IN TRAY
 LS-CRM-GRY-F-GRN-CHLKY IP-FOSS-OOL-PR
 INTER-GRN SM VUG POR-LT BRN STN-SCATT
 DULL WHT FLOR-FR STRM CUT-NO ODOOR
 LS-CRM-GRY-F-XLN-FOSS-OOL-TR SH LT GRY
 IMBD-FR-TR PR INTER-GRN POR-LT BRN
 STN-SCATT DULL WHT FLOR-GD STRM
 CUT-NO ODOOR
 LS-OFF WHT-GRY-F-XLN-FOSS-OOL-HD-
 DNS W/ LS-CHLKY IP-DULL WHT MIN
 FLOR-NO VIS SHOW
 LS-GRY-F-XLN-HD-TR FOSS-DNS-DULL WHT
 FLOR-NO VIS SHOW
 LS-TN-F-XLN-OOL-GD OOL-MOLDIC
 POR-BRITE WHT FLOR-BARREN
 LS-CRM-F-XLN-HD-TR FOSS-PR SM VUG
 POR-SCATT YEL FLOR-NO VIS CUT
 SH-GRY-BLKY-WAXEY-SILTY
 LS-CRM-F-XLN-OOL-FR OOL-MOLDIC POR-SLI
 TR LT BRN STN-SCATT YEL FLOR-RARE VIS
 CUT-NO ODOOR-CHLK IN TRAY
 LS-TN-F-XLN-HD-DNS W/ CHLK IN TRAY
 LS-TN-F-XLN-HD-DNS W/ LS-OFF
 WHT-F-XLN-BRIT-SLI CHLKY-DNS
 LS-TN-F-XLN-TR OOL-HD-DNS-DULL WHT
 FLOR-NO VIS SHOW
 LS-CRM-F-XLN-FOSS-HD-DNS W/ SLI CHLKY
 IP-DULL WHT MIN FLOR-NO VIS SHOW
 LS-OFF WHT/CRM-F-XLN-OOL-PR TO FR
 INTER-GRN SM OOL-MOLDIC/INTER-PRT
 POR-LT BRN TO DK BRN STN-SCATT YEL /GLD
 FLOR-GD STRM CUT-SSFO-V-FNT ODOOR
 LS-OFF WHT-F-XLN-FOSS-OOL-TR INTER-PRT
 POR-TR LT BRN STN-TR SCATT YEL FLOR-TR
 FR STRM CUT-V-FNT ODOOR
BASE OF THE KC
 CHRT-VARIG-OPQ-OOL IP-FRSH W/ SH-
 CHRT-RED-OPQ-FRSH W/
 CHRT-VARIG-OPQ-FRSH-SH-RED-GRN-
 SILTY-SSFO
 SH-GRY-GRN-SPLNTY W/
 CHRT-RED-VARIG-OPQ-FRSH
ARBUCKLE
 DOLO-TN-F-GRN W/ CHRT OFF WHT IMBD IP-PR
 TO FR LG VUG POR-LT BRN STN-DULL WHT
 FLOR-GD STRM CUT-GD ODOOR
 DOLO-CRM-F-GRN-PR INTER-GRN POR-DULL
 WHT FLOR-TR LT BRN STN-FLSH CUT WHEN
 CRUSHED-GD ODOOR
 DOLO-CRM-M-GRN-FR TO GD INTER-GRN
 POR-BRITE WHT FLOR-LT BRN AND DK BRN
 STN-GD STRM CUT-ABUNDANT FREE OIL IN
 CUP-GD ODOOR
 POOR SAMPLE
 CHRT-VARIG-OPQ-FRSH-SHALES-DK GRY
 WAXEY-OOL-CRM-M-GRN-F-INTER-GRN
 POR-DULL WHT FLOR-TR LT BRN STN-TR FR
 STRM CUT-FNT ODOOR
 DOLO-CRM-M-GRN-FR INTER-GRN POR-TR LT
 BRN STN-DULL WHT FLOR-PR STRM CUT-FNT
 ODOOR
 DOLO-CRM-F-M-GRN-FR INTER-GRN POR IP
 TO NO VIS POR-NO VIS STN-V-SLI ODOOR
 DOLO-TN-F-GRN-BRIT-DNS
 DOLO-TN-F-M-GRN-NO VIS POR TO FR
 INTER-GRN SM VUG POR-DULL WHT FLOR-NO
 VIS SHOW
 DOLO-OFF WHT-F-GRN-HD-DNS
 DOLO A.A. SLI CHLKY
 DOLO-OFF WHT-TN-F-GRN-HD-DNS W/ CHLK IN
 TRAY
 DOLO-OFF WHT-F-GRN-HD-DNS W/
 CHRT-WHT-OPQ-FRSH
 DOLO-CRM-F-GRN-BRIT-DNS W/ CHRT IN TRAY
 DOLO-TN-CRM-F-GRN-OOL-DNS WITH
 CHRT-SH-PYR IN TRAY
 DOLO-CRM-V-F-GRN-BRIT-DNS
 DOLO A.A.
 DOLO-OFF WHT-F-M-GRN-TR SM PYR XLS
 IMBD-BRIT-DNS W/ CHRT-OFF
 WHT-TN-OPQ-FRSH

WT. 9.0
VIS 43
 TG, CI-OS
 100
 1000
 WT. 9
VIS 42
 MUD DATA AT 3037
WT. 9.2
VIS 42
FIL 8.0
 HW-40 UNIT GAS
INCRS
 TG, CI-OS
 100
 1000
 WT. 9.4
VIS 43
 WT. 9.1
VIS 50
 DST #1
100 FT
30 FT OIL CUT
MUD-GD SHOW
OF FREE OIL BET
TOOL
IBLWV-WK SURF
BLW 9 MIN AND
FBLWVK BLDING
BLW BOB IN 57
MIN
15:30:60:90
SIP-114-163
IFP-41-46
FFP-44-64
HP-1714-1672
HW-100 UNIT GAS
INCRS
 DST #2
3446-3463
REC-1607 GIP
425-GASSEY OIL
(20% GAS, 79%
OIL, 9% MUD)
180 GASSEY OIL
(20% GAS, 80%
OIL, 5% MUD)
445 SLI MUDDY
GASSEY OIL
(15% GAS, 75%
OIL, 10% MUD)
IBLWGD BLW BOB
IN 4
MIN-BLWBK-YES
FBLWGD BLW BLT
BOB IN 4
MIN-BLWBK-YES
30:60:45:90
 DST #3
REC-15 FT OIL CUT
MUD 15% OIL AND
85% MUD
IBLWVWK BLW FOR
7 MIN AND DIED
FBLWNO BLW
SIP-266-115
IFP-35-42
FFP-47-47
HP-1703-1703
MUD DATA AT 3467
WT. 9.2
VIS 51
FIL 7.2
 DST #4
3443-3510
REC-180' GIP, 135'
MUDDY GASSEY
OIL (28% GAS, 22%
OIL, 50% MUD)
120' MUDDY
GASSEY OIL (20%
GAS, 28% OIL, 35%
MUD)
60' SLI MUDD CUT
GASSEY OIL (60%
GAS, 30% OIL, 10%
MUD)
60' SLI MUDDY
GASSEY OIL (50%
GAS, 40% OIL, 10%
MUD)
5-60-45-90
SIP-1155-1093
IFP-70-102
FFP-137-221
HP-1720-1697
MUD DATA AT 3467
WT. 9.2
VIS 49
FIL 7.2
 DST #5
REC-5 FT OIL CUT
MUD
IBLWVWK SURF
BLW 9 MIN AND
DIED
FBLWNO BLW
15:30:15:30
SIP-1204-1193
IFP-29-30
FFP-29-30
HP-1718-1668
MUD DATA AT
3510
WT. 9.2
VIS 49
FIL 7.6
 DST #6
3517-3526
REC-S VERY SLI
OIL CUT MUD
IBLWV-WK SURF
BLW FOR 7 MIN
AND DIED
FBLWNO BLW
15:30:15:30
SIP-1171-1144
IFP-33-35
FFP-35-37
HP-1737-1704
 TG, CI-OS
 100
 1000
 MUD DATA AT 3337
WT. 9.2
VIS 42
FIL 8.0
 HW-100 UNIT GAS
INCRS
 MUD DATA AT 3378
WT. 9.25
VIS 49
FIL 7.6
 MUD DATA AT 33
73
WT. 8.8
VIS 71
FIL 7.2
 HW-45 UNIT GAS
INCRS
 HW-22 UNIT GAS
INCRS
 MUD DATA AT 3457
WT. 9.2
VIS 51
FIL 7.2
 TG, CI-OS
 100
 1000





DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita ,Kansas 67206-2563

ATTN: Rene Husted

G.B.F #1-12

12-19s-14w Barton

Start Date: 2015.05.04 @ 00:00:00

End Date: 2015.05.04 @ 00:00:00

Job Ticket #: 01030 DST #: 1

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

Printed: 2015.05.04 @ 22:54:47



DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

12-19s-14w Barton

9431 East Central Suite 100
Wichita ,Kansas 67206-2563

G.B.F #1-12

Job Ticket: 01030

DST#: 1

ATTN: Rene Husted

Test Start: 2015.05.04 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "G & H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budigg

Unit No: 1-17 miles

Interval: 3350.00 ft (KB) To 3378.00 ft (KB) (TVD)

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3378.00 ft (KB) (TVD)

1878.00 ft (CF)

Hole Diameter: 788.00 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 3139

Inside

Press@RunDepth: 163.24 psia @ 3373.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.05.04

End Date:

2015.05.04

Last Calib.:

2015.05.04

Start Time: 03:23:00

End Time:

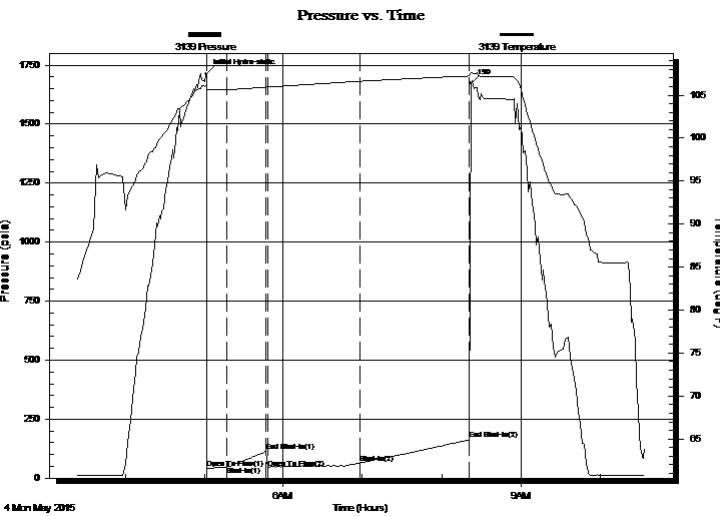
10:34:30

Time On Btm:

2015.05.04 @ 05:01:30

Time Off Btm:

TEST COMMENT: 1st Opening 15 Minutes-Wead steady surface blow through out
1st Shut-In 30 Minutes-No blow back
2nd Opening 60 Minutes-Weak building blow buyit to the bottom of a 5 gallon bucket in 58 minutes
2nd Shut-In 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1713.80	106.13	Initial Hydro-static
1	41.01	105.66	Open To Flow (1)
16	48.17	105.64	Shut-In(1)
46	114.14	105.93	End Shut-In(1)
47	43.62	105.93	Open To Flow (2)
117	64.33	106.61	Shut-In(2)
200	163.24	107.23	End Shut-In(2)
201	1672.44	107.64	190

Recovery

Length (ft)	Description	Volume (bbl)
190.00	gas in the pipe	2.67
30.00	oil and gas cut mud	0.42
0.00	there w as a good show of free oil betw	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

12-19s-14w Barton

9431 East Central Suite 100
Wichita ,Kansas 67206-2563

G.B.F #1-12

Job Ticket: 01030

DST#: 1

ATTN: Rene Husted

Test Start: 2015.05.04 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "G & H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budigg

Unit No: 1-17 miles

Interval: 3350.00 ft (KB) To 3378.00 ft (KB) (TVD)

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3378.00 ft (KB) (TVD)

1878.00 ft (CF)

Hole Diameter: 788.00 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 3119 Outside

Press@RunDepth: 164.80 psia @ 3373.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.05.04

End Date:

2015.05.04

Last Calib.:

2015.05.04

Start Time: 03:23:00

End Time:

10:34:30

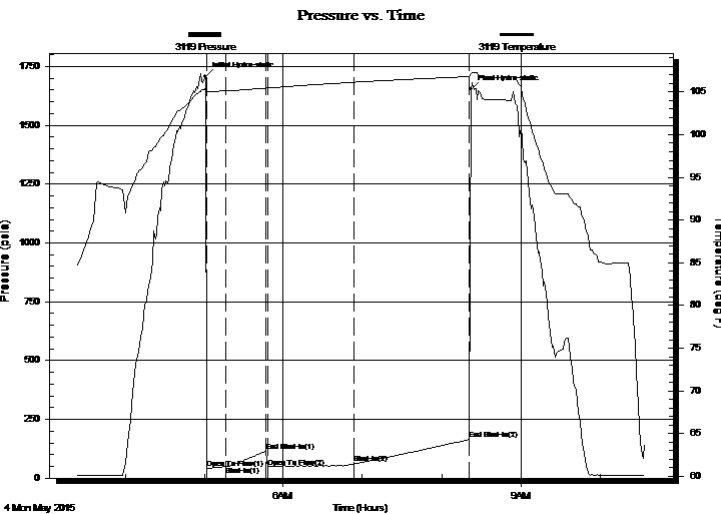
Time On Btm:

2015.05.04 @ 05:01:00

Time Off Btm:

2015.05.04 @ 08:22:00

TEST COMMENT: 1st Opening 15 Minutes-Wead steady surface blow through out
1st Shut-In 30 Minutes-No blow back
2nd Opening 60 Minutes-Weak building blow buyit to the bottom of a 5 gallon bucket in 58 minutes
2nd Shut-In 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1707.42	105.50	Initial Hydro-static
1	41.48	104.58	Open To Flow (1)
16	49.04	105.13	Shut-In(1)
46	115.70	105.47	End Shut-In(1)
47	47.04	105.46	Open To Flow (2)
113	60.88	106.14	Shut-In(2)
200	164.80	106.80	End Shut-In(2)
201	1652.43	107.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	gas in the pipe	2.67
30.00	oil and gas cut mud	0.42
0.00	there w as a good show of free oil betw	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company L.L.C.

12-19s-14w Barton

9431 East Central Suite 100
Wichita ,Kamsas 67206-2563

G.B.F #1-12

Job Ticket: 01030

DST#: 1

ATTN: Rene Husted

Test Start: 2015.05.04 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3346.00 ft	Diameter: 3.80 inches	Volume: 46.94 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 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:	75000.00 lb
			Total Volume: 46.94 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3350.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	523.00 ft				
Tool Length:	552.00 ft				
Number of Packers:	2	Diameter: 675.00 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3326.00	
Hydraulic tool	5.00			3331.00	
Jars	7.00			3338.00	
Safety Joint	2.00		Fluid	3340.00	
Top Packer	5.00			3345.00	
Packer	5.00			3350.00	29.00 Bottom Of Top Packer
Anchor	23.00			3373.00	
Recorder	0.00	3139	Inside	3373.00	
Recorder	0.00	3119	Outside	3373.00	
Bullnose	500.00			3873.00	523.00 Anchor Tool
Total Tool Length:	552.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company L.L.C.

12-19s-14w Barton

9431 East Central Suite 100
Wichita ,Kamsas 67206-2563

G.B.F #1-12

Job Ticket: 01030

DST#: 1

ATTN: Rene Husted

Test Start: 2015.05.04 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 49.00 sec/qt
Water Loss: 75.96 in³
Resistivity: ohm.m
Salinity: 5100.00 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
190.00	gas in the pipe	2.665
30.00	oil and gas cut mud	0.421
0.00	there w as a good show of free oil betwee	0.000

Total Length: 220.00 ft Total Volume: 3.086 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

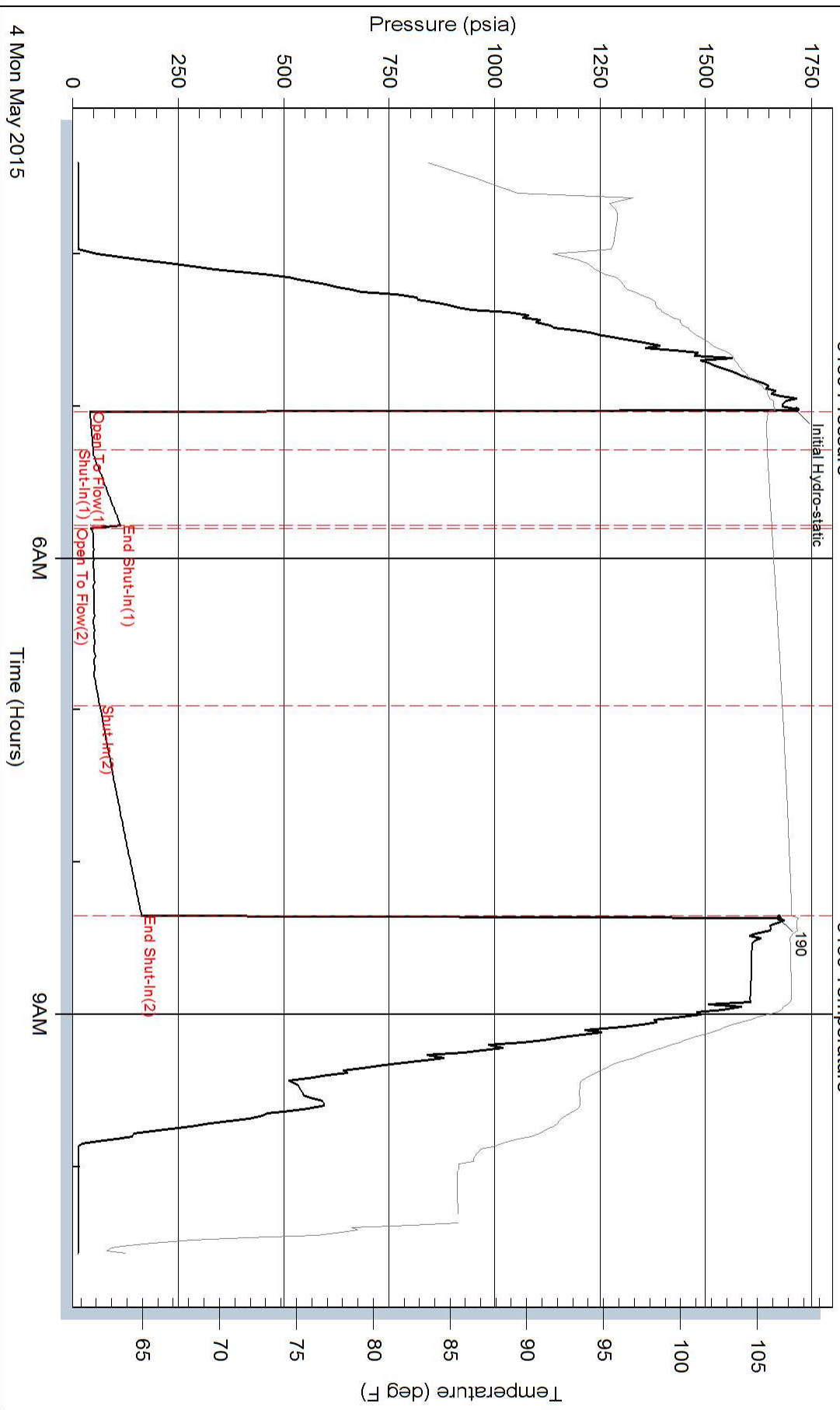
Serial #:

Laboratory Name:

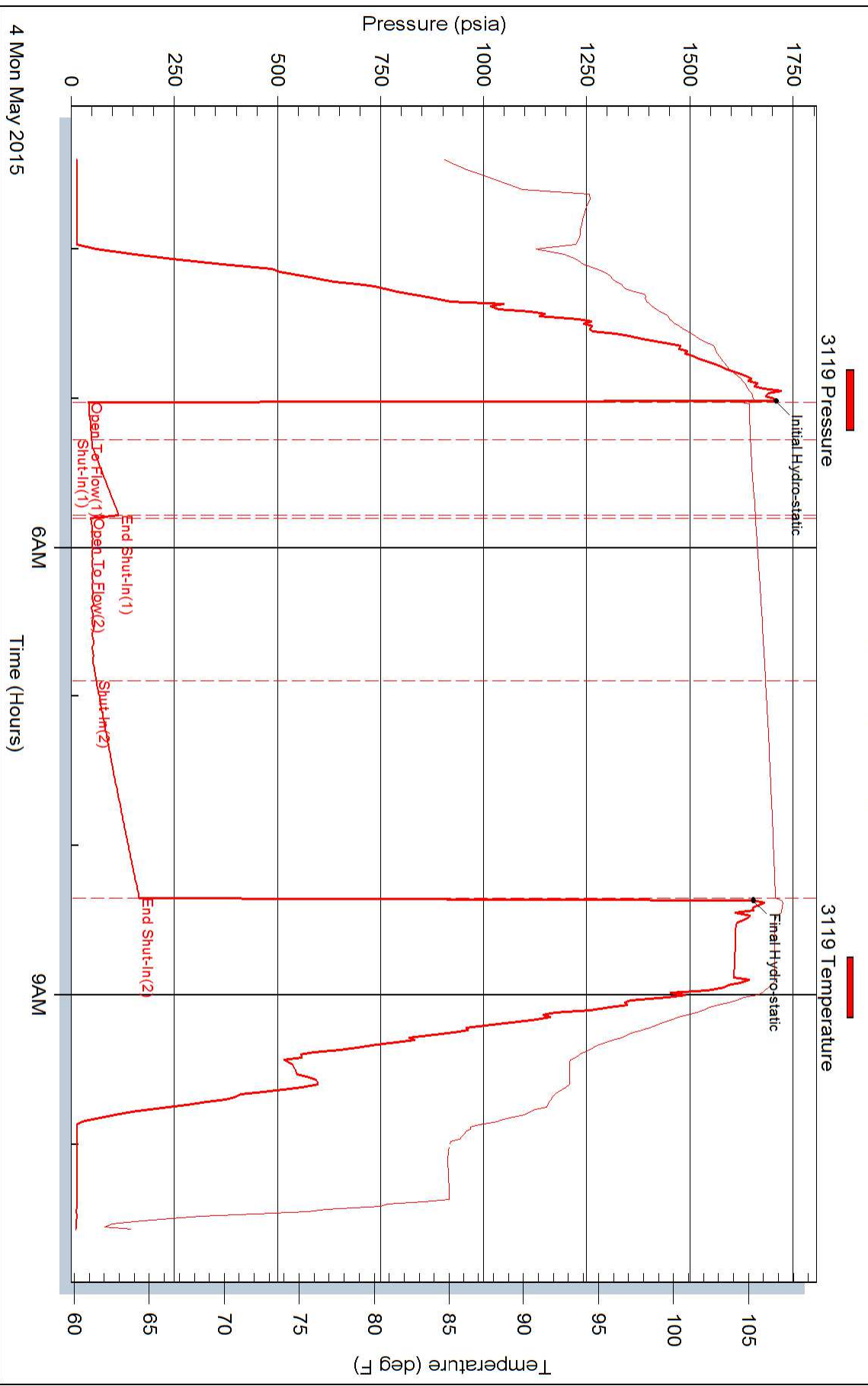
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita ,Kansas 67206-2563

ATTN: Rene Husted

G.B.F #1-12

12-19s-14w Barton

Start Date: 2015.05.06 @ 08:35:00

End Date: 2015.05.06 @ 00:00:00

Job Ticket #: 01031 DST #: 2

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

Printed: 2015.05.06 @ 05:12:14



DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

12-19s-14w Barton

9431 East Central Suite 100
Wichita ,Kansas 67206-2563

G.B.F #1-12

Job Ticket: 01031

DST#: 2

ATTN: Rene Husted

Test Start: 2015.05.06 @ 08:35:00

GENERAL INFORMATION:

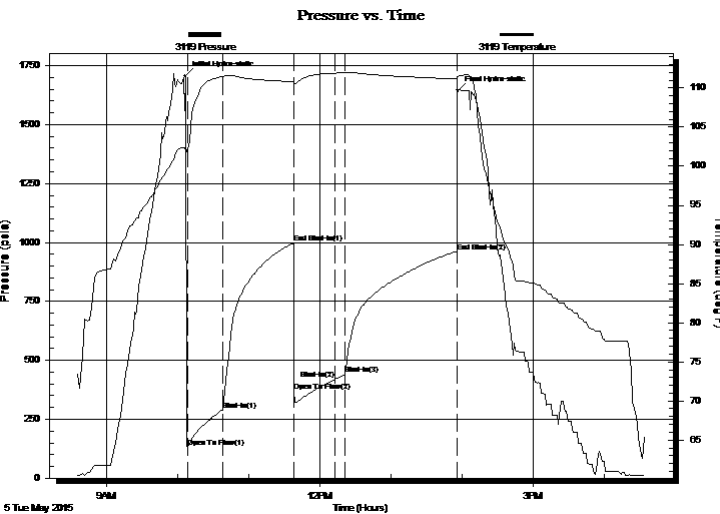
Formation: **Kansas "I-J & K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3378.00 ft (KB) To 3446.00 ft (KB) (TVD)**
 Total Depth: 3446.00 ft (KB) (TVD)
 Hole Diameter: 788.00 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 1
 Reference Elevations: 1886.00 ft (KB)
 1878.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 3119

Inside

Press@RunDepth: 961.80 psia @ 3440.60 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.05.05 End Date: 2015.05.05 Last Calib.: 2015.05.06
 Start Time: 08:35:00 End Time: 16:34:00 Time On Btm: 2015.05.05 @ 10:07:00
 Time Off Btm: 2015.05.05 @ 13:56:30

TEST COMMENT: 1st Opening 30 Minutes Good blow built to the bottom of a 5 gallon bucket in 4 minutes
 1st Shut-In 60 Minutes-Good blow back bottom of the bucket
 2nd Opening 45 Minutes-Good blow built to the bottom of a 5 gallon bucket in 4 minutes
 2nd Shut-In 90 Minutes-Good blow back bottom of the bucket



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1706.80	102.57	Initial Hydro-static
2	132.39	102.19	Open To Flow (1)
32	290.46	111.45	Shut-In(1)
91	997.58	110.81	End Shut-In(1)
92	369.97	110.56	Open To Flow (2)
126	418.94	111.90	Shut-In(2)
135	439.82	111.94	Shut-In(3)
229	961.80	111.17	End Shut-In(2)
230	1645.26	111.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1600 feet of gas in the pipe	0.00
425.00	slightly mud cut gassy oil	5.96
0.00	20%Gas 70%Oil 5%mud	0.00
180.00	Clean gassy oil 20% Gas 80%Oil	2.52
445.00	Slightly mud cut gassy oil	6.24
0.00	15%Gas 75%Oil 10%Mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

12-19s-14w Barton

9431 East Central Suite 100
Wichita ,Kansas 67206-2563

G.B.F #1-12

Job Ticket: 01031

DST#: 2

ATTN: Rene Husted

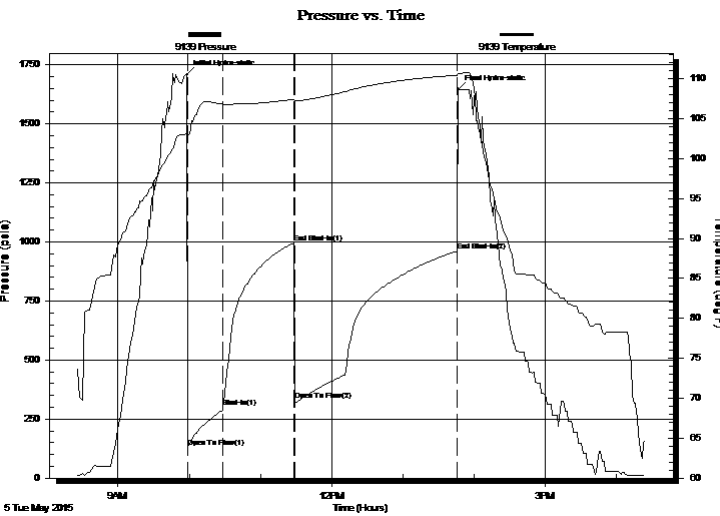
Test Start: 2015.05.06 @ 08:35:00

GENERAL INFORMATION:

Formation: **Kansas "I-J & K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3378.00 ft (KB) To 3446.00 ft (KB) (TVD)**
 Total Depth: 3446.00 ft (KB) (TVD)
 Hole Diameter: 788.00 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 1
 Reference Elevations: 1886.00 ft (KB)
 1878.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 9139 Outside
 Press@RunDepth: 960.54 psia @ 3440.60 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.05.05 End Date: 2015.05.05 Last Calib.: 2015.05.06
 Start Time: 08:25:00 End Time: 16:24:30 Time On Btm: 2015.05.05 @ 09:58:00
 Time Off Btm: 2015.05.05 @ 13:47:00

TEST COMMENT: 1st Opening 30 Minutes Good blow built to the bottom of a 5 gallon bucket in 4 minutes
 1st Shut-In 60 Minutes-Good blow back bottom of the bucket
 2nd Opening 45 Minutes-Good blow built to the bottom of a 5 gallon bucket in 4 minutes
 2nd Shut-In 90 Minutes-Good blow back bottom of the bucket



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1707.73	103.19	Initial Hydro-static
1	130.99	102.75	Open To Flow (1)
31	301.35	106.85	Shut-In(1)
90	996.03	107.44	End Shut-In(1)
91	329.05	107.26	Open To Flow (2)
228	960.54	110.44	End Shut-In(2)
229	1646.50	110.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1600 fett of gas in the pipe	0.00
425.00	slightly mud cut gassy oil	5.96
0.00	20%Gas 70%Ouil 5%mud	0.00
180.00	Clean gassy oil 20% Gas 80%Oil	2.52
445.00	Slightly mud cut gassy oil	6.24
0.00	15%Gas 75%Oil 10%Mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company L.L.C.

12-19s-14w Barton

9431 East Central Suite 100
Wichita ,Kamsas 67206-2563

G.B.F #1-12

Job Ticket: 01031

DST#: 2

ATTN: Rene Husted

Test Start: 2015.05.06 @ 08:35:00

Tool Information

Drill Pipe:	Length: 3373.00 ft	Diameter: 3.80 inches	Volume: 47.31 bbl	Tool Weight:	2000.00 lb	
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb	
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	720000.0 lb	
			Total Volume:	47.31 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	62000.00 lb	
Depth to Top Packer:	3378.00 ft			Final	62000.00 lb	
Depth to Bottom Packer:	ft					
Interval between Packers:	67.60 ft					
Tool Length:	96.60 ft					
Number of Packers:	2	Diameter:	6.75 inches			
Tool Comments:						

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3354.00	
Hydraulic tool	5.00			3359.00	
Jars	7.00			3366.00	
Safety Joint	2.00		Fluid	3368.00	
Top Packer	5.00			3373.00	
Packer	5.00			3378.00	29.00 Bottom Of Top Packer
Anchor	5.00			3383.00	
Change Over Sub	0.75		Inside	3383.75	
Drill Pipe	31.10			3414.85	
Change Over Sub	0.75			3415.60	
Anchor	25.00			3440.60	
Recorder	0.00	3119	Inside	3440.60	
Recorder	0.00	9139	Outside	3440.60	
Bullnose	5.00			3445.60	67.60 Anchor Tool

Total Tool Length: 96.60



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company L.L.C.

12-19s-14w Barton

9431 East Central Suite 100
Wichita ,Kamsas 67206-2563

G.B.F #1-12

Job Ticket: 01031

DST#: 2

ATTN: Rene Husted

Test Start: 2015.05.06 @ 08:35:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 71.00 sec/qt
Water Loss: 7.20 in³
Resistivity: ohm.m
Salinity: 3500.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 39 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1600 fett of gas in the pipe	0.000
425.00	slightly mud cut gassy oil	5.962
0.00	20%Gas 70%Ouil 5%mud	0.000
180.00	Clean gassy oil 20% Gas 80%Oil	2.525
445.00	Slightly mud cut gassy oil	6.242
0.00	15%Gas 75%Oil 10%Mud	0.000
0.00	Oil Gravity 39 Corrected	0.000

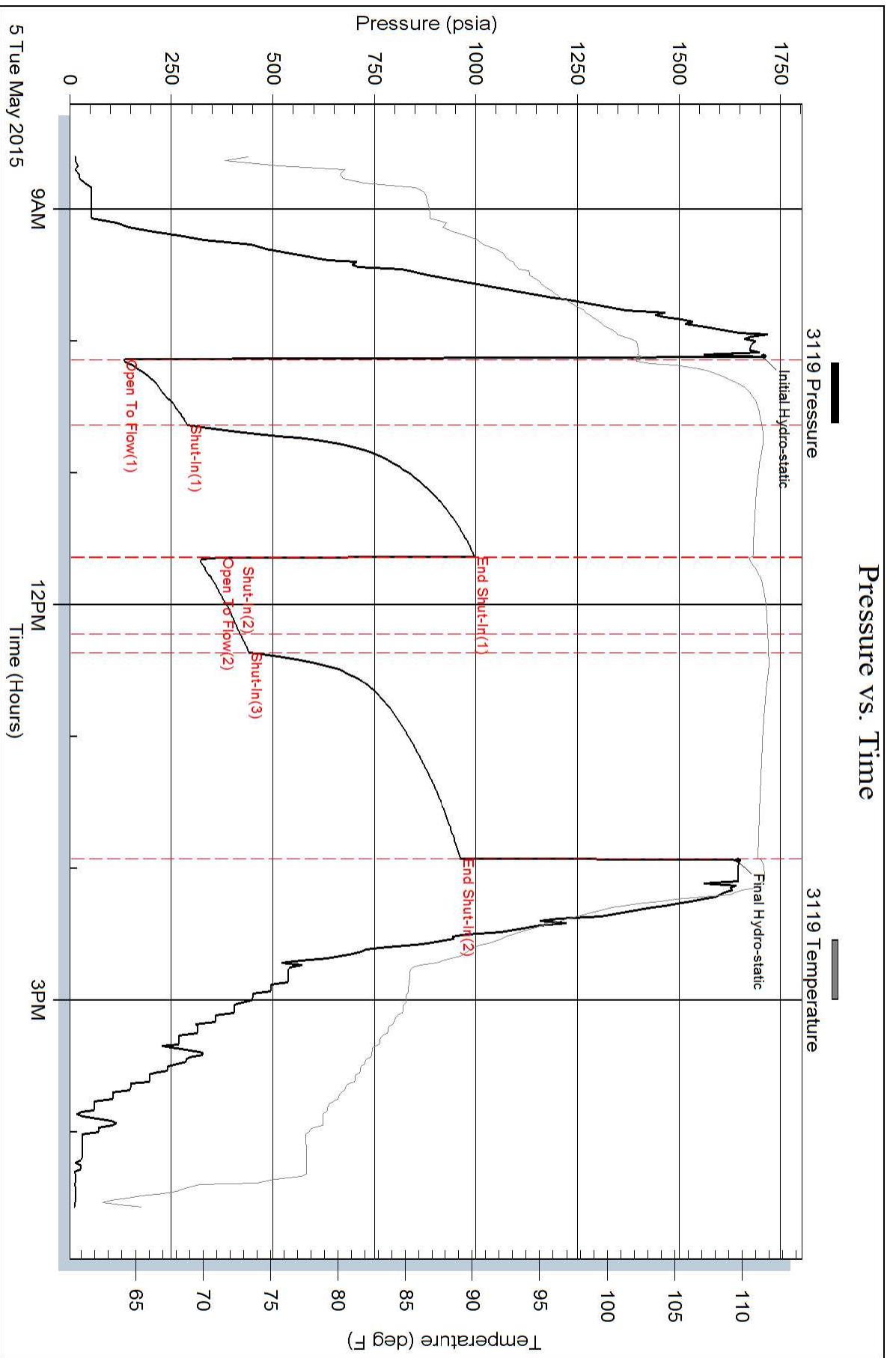
Total Length: 1050.00 ft Total Volume: 14.729 bbl

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

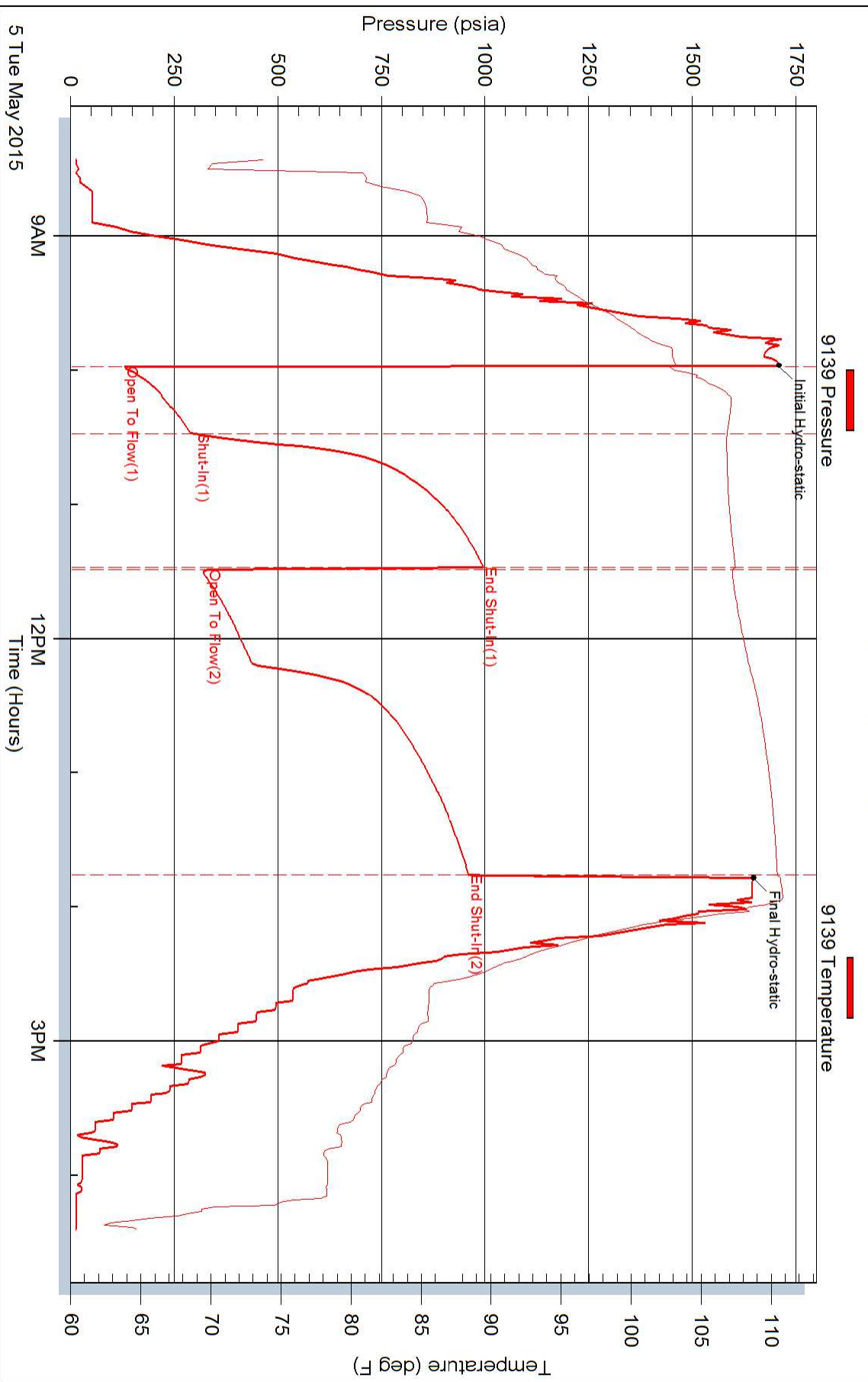
Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita ,Kansas 67206-2563

ATTN: Rene Husted

G.B.F #1-12

12-19s-14w Barton

Start Date: 2015.05.06 @ 00:00:00

End Date: 2015.05.06 @ 00:00:00

Job Ticket #: 01032 DST #: 3

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

Printed: 2015.05.06 @ 15:59:34



DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

12-19s-14w Barton

9431 East Central Suite 100
Wichita ,Kansas 67206-2563

G.B.F #1-12

Job Ticket: 01032

DST#: 3

ATTN: Rene Husted

Test Start: 2015.05.06 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: **3446.00 ft (KB) To 3463.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3463.00 ft (KB) (TVD)

1878.00 ft (CF)

Hole Diameter: 788.00 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 3139 Outside

Press@RunDepth: 114.97 psia @ 3458.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.05.06 End Date: 2015.05.06

Last Calib.: 2015.05.06

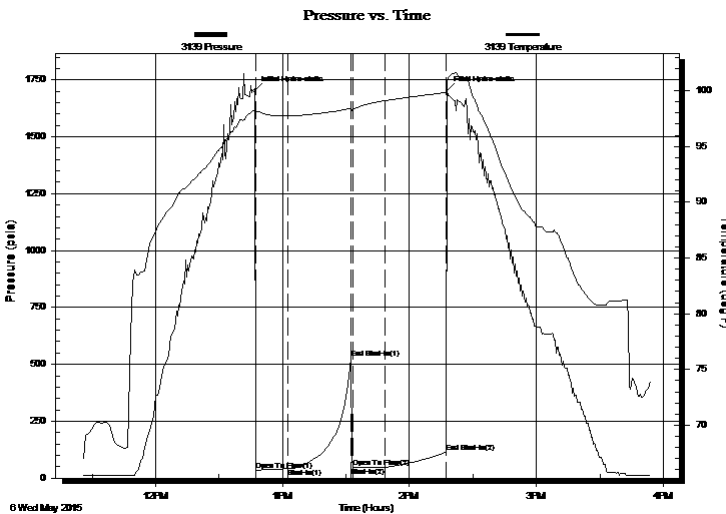
Start Time: 11:25:00 End Time: 15:54:00

Time On Btm: 2015.05.06 @ 12:47:00

Time Off Btm: 2015.05.06 @ 14:18:00

TEST COMMENT: 1st Opening 15 Minutes Weak blow for 7 minutes and died
1st Shut-In 30 Minutes
2nd Opening 15 Minutes-No blow
2nd Shut-In 30 Min utes

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1703.24	98.18	Initial Hydro-static
1	34.88	97.94	Open To Flow (1)
16	41.74	97.73	Shut-In(1)
46	525.45	98.44	End Shut-In(1)
47	47.46	98.37	Open To Flow (2)
62	46.86	99.10	Shut-In(2)
91	114.97	99.85	End Shut-In(2)
91	1702.82	100.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Oil cut mud 15%Oil 85 %Mud	0.21

Gas Rates

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



DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

12-19s-14w Barton

9431 East Central Suite 100
Wichita ,Kansas 67206-2563

G.B.F #1-12

Job Ticket: 01032

DST#: 3

ATTN: Rene Husted

Test Start: 2015.05.06 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: **3446.00 ft (KB) To 3463.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3463.00 ft (KB) (TVD)

1878.00 ft (CF)

Hole Diameter: 788.00 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 9119

Inside

Press@RunDepth: 116.80 psia @ 3458.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.05.06

End Date: 2015.05.06

Last Calib.: 2015.05.06

Start Time: 11:25:00

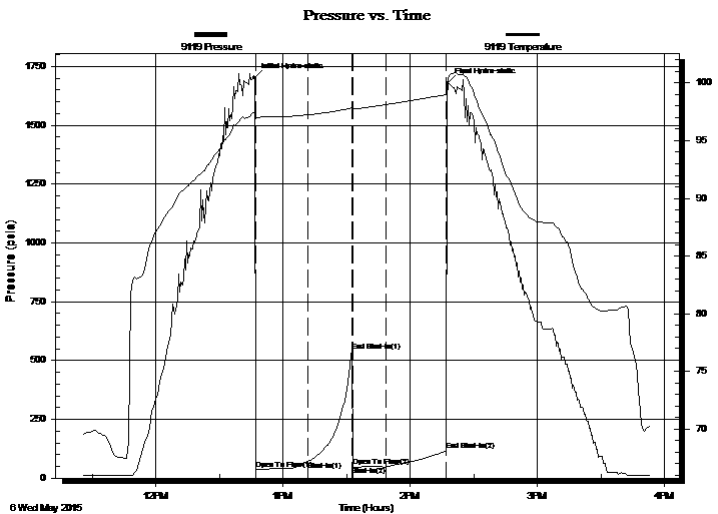
End Time: 15:53:30

Time On Btm: 2015.05.06 @ 12:46:30

Time Off Btm: 2015.05.06 @ 14:18:00

TEST COMMENT: 1st Opening 15 Minutes Weak blow for 7 minutes and died
1st Shut-In 30 Minutes
2nd Opening 15 Minutes-No blow
2nd Shut-In 30 Min utes

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1703.14	97.44	Initial Hydro-static
1	35.97	96.99	Open To Flow (1)
26	72.46	97.24	Shut-In(1)
46	538.06	97.85	End Shut-In(1)
47	48.92	97.73	Open To Flow (2)
62	48.93	98.12	Shut-In(2)
91	116.80	98.98	End Shut-In(2)
92	1682.90	100.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Oil cut mud 15%Oil 85 %Mud	0.21

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company L.L.C.

12-19s-14w Barton

9431 East Central Suite 100
Wichita ,Kamsas 67206-2563

G.B.F #1-12

Job Ticket: 01032

DST#: 3

ATTN: Rene Husted

Test Start: 2015.05.06 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3441.00 ft	Diameter: 3.80 inches	Volume: 48.27 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 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:	74000.00 lb
			Total Volume: 48.27 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3446.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	17.00 ft				
Tool Length:	46.00 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			3422.00	
Hydraulic tool	5.00			3427.00	
Jars	7.00			3434.00	
Safety Joint	2.00		Fluid	3436.00	
Top Packer	5.00			3441.00	
Packer	5.00			3446.00	29.00 Bottom Of Top Packer
Anchor	12.00			3458.00	
Recorder	0.00	3119	Inside	3458.00	
Recorder	0.00	3139	Outside	3458.00	
Bullnose	5.00			3463.00	17.00 Anchor Tool
Total Tool Length:	46.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company L.L.C.

12-19s-14w Barton

9431 East Central Suite 100
Wichita ,Kansas 67206-2563

G.B.F #1-12

Job Ticket: 01032

DST#: 3

ATTN: Rene Husted

Test Start: 2015.05.06 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 7.20 in³
Resistivity: ohm.m
Salinity: 5100.00 ppm
Filter Cake: 0.00 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
15.00	Oil cut mud 15%Oil 85 %Mud	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

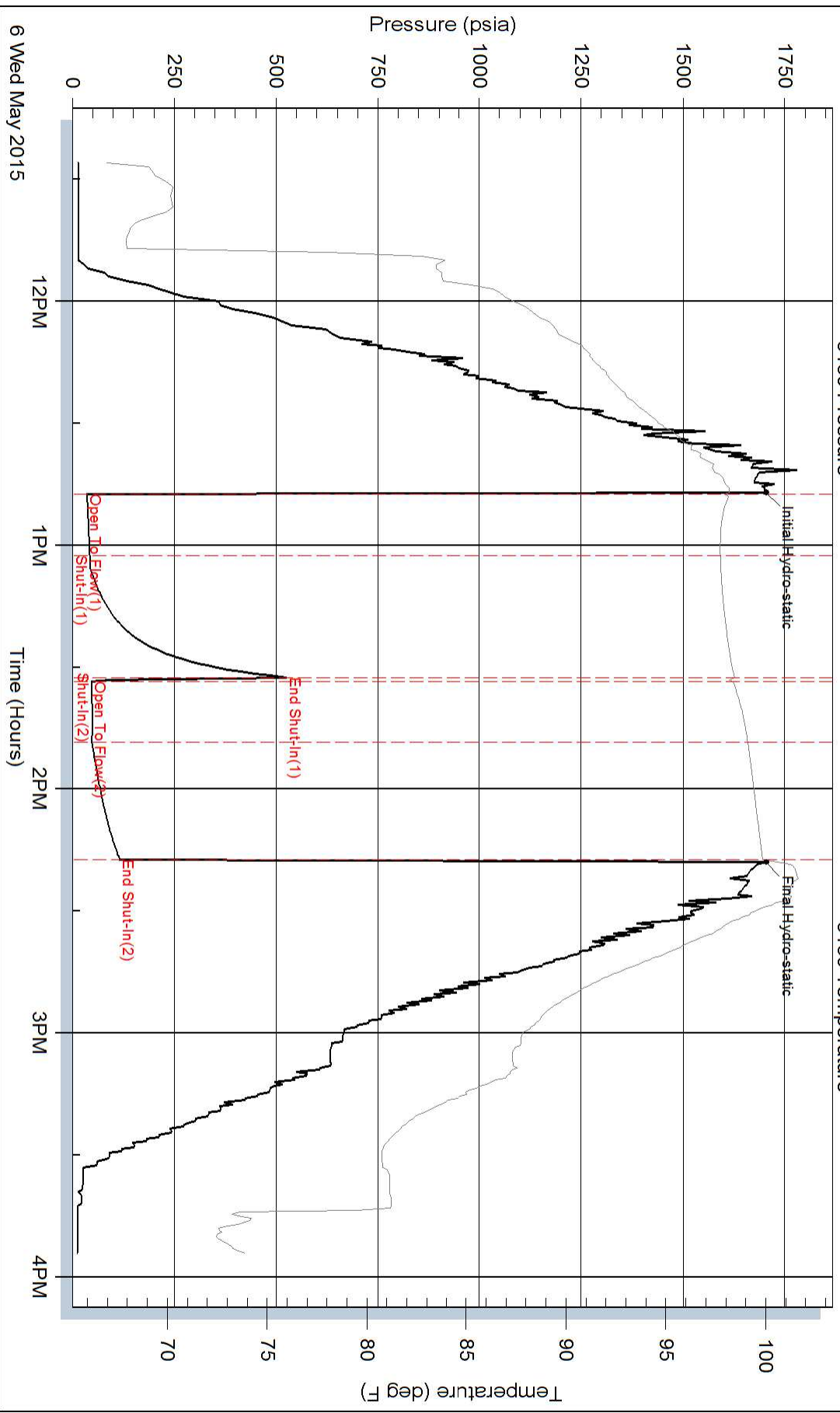
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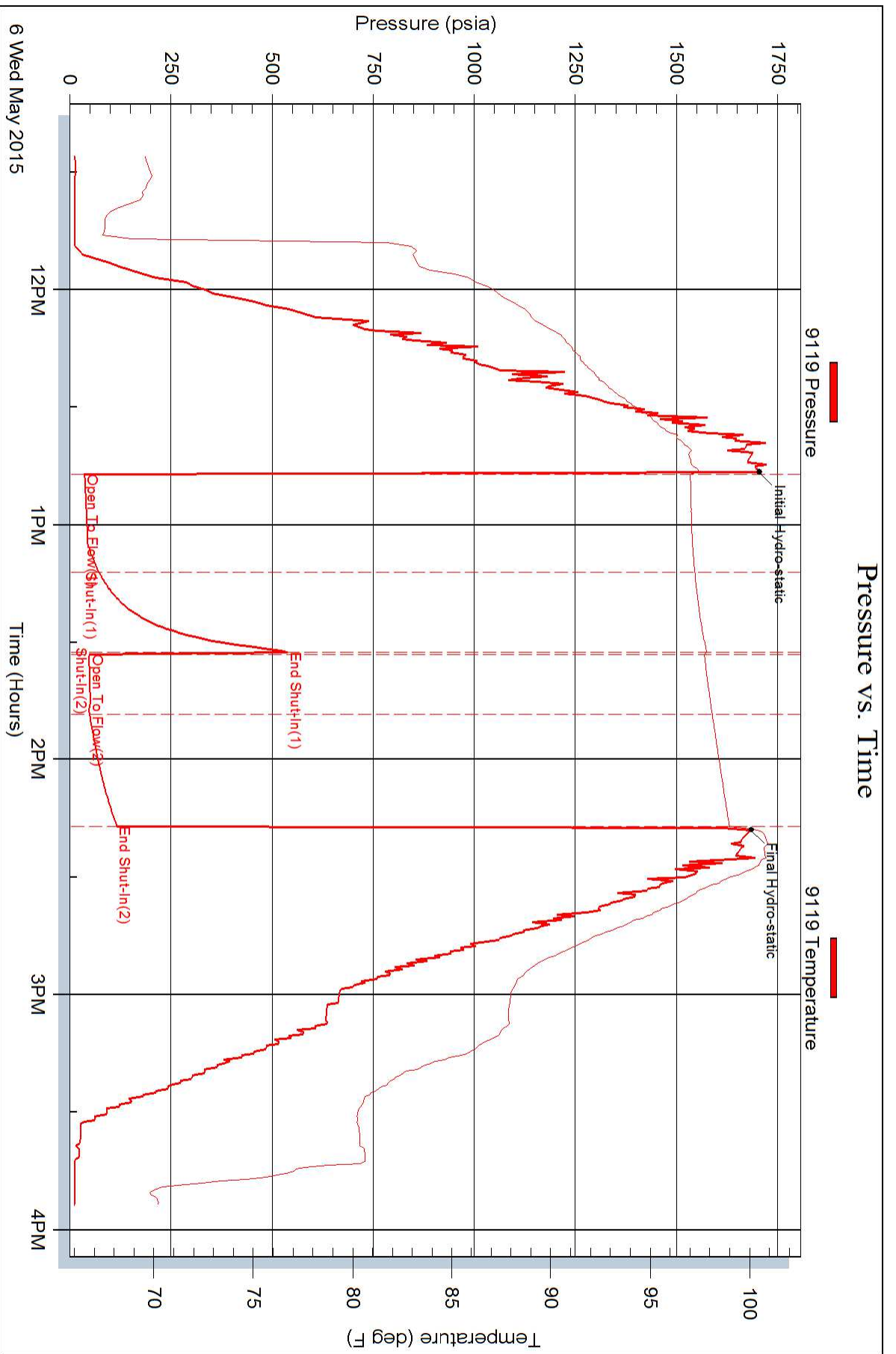
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita ,Kansas 67206-2563

ATTN: Rene Husted

G.B.F #1-12

12-19s-14w Barton

Start Date: 2015.05.07 @ 00:00:00

End Date: 2015.05.07 @ 00:00:00

Job Ticket #: 01033 DST #: 4

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

Printed: 2015.05.07 @ 14:13:51

F.G.Holl Company L.L.C.

12-19s-14w Barton

G.B.F #1-12

DST # 4

Conglomerat & Arbusck

2015.05.07



DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

12-19s-14w Barton

9431 East Central Suite 100
Wichita ,Kansas 67206-2563

G.B.F #1-12

Job Ticket: 01033

DST#: 4

ATTN: Rene Husted

Test Start: 2015.05.07 @ 00:00:00

GENERAL INFORMATION:

Formation: **Conglomerat & Arbuck**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: **3443.00 ft (KB) To 3510.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3510.00 ft (KB) (TVD)

1878.00 ft (CF)

Hole Diameter: 788.00 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 9139 Outside

Press@RunDepth: 1093.25 psia @ 3504.60 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.05.07

End Date: 2015.05.07

Last Calib.: 2015.05.07

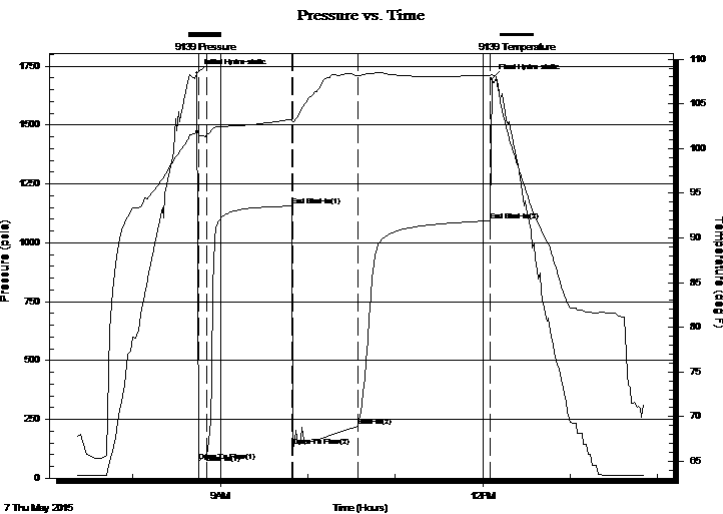
Start Time: 07:21:00

End Time: 13:51:00

Time On Btm: 2015.05.07 @ 08:44:00

Time Off Btm: 2015.05.07 @ 12:06:00

TEST COMMENT: 1st Opening 5 Minutexts-Fair blow built to 9 inches into the water
1st Shut-In 60 Minutes-Weak steady blow back
2nd Opening 45 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 10 minutes
2nd Shut-In 90 Minutes-Weak blow back through out



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1719.96	102.17	Initial Hydro-static
1	69.83	101.58	Open To Flow (1)
7	102.55	101.59	Shut-In(1)
65	1155.27	103.27	End Shut-In(1)
66	137.06	102.96	Open To Flow (2)
110	220.70	108.17	Shut-In(2)
201	1093.25	108.20	End Shut-In(2)
202	1696.56	108.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	180 gAS IN THE PIP3	0.00
135.00	Mud cut gassy oil 28%Gas 22%Oil 50%	1.89
120.00	Mud Cut Gassy oil 20%Gas 45%Oil 35%	1.68
60.00	Slightly mud cut gassy oil	0.84
0.00	60%GAS 30%OIL 10%MUD	0.00
60.00	sLIGHTLY MUD CUT GASSY OIL	0.84

Gas Rates

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



DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

12-19s-14w Barton

9431 East Central Suite 100
Wichita ,Kansas 67206-2563

G.B.F #1-12

Job Ticket: 01033

DST#: 4

ATTN: Rene Husted

Test Start: 2015.05.07 @ 00:00:00

GENERAL INFORMATION:

Formation: **Conglomerat & Arbuck**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: **3443.00 ft (KB) To 3510.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3510.00 ft (KB) (TVD)

1878.00 ft (CF)

Hole Diameter: 788.00 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 9119

Inside

Press@RunDepth: 1094.33 psia @ 3504.60 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.05.07 End Date: 2015.05.07

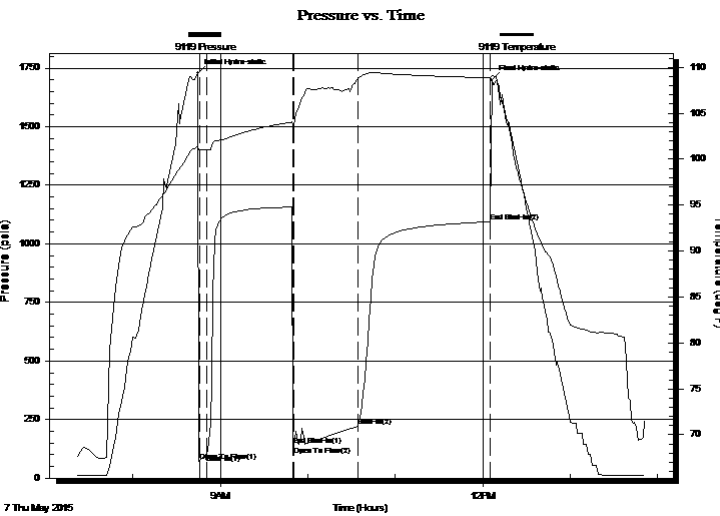
Last Calib.: 2015.05.07

Start Time: 07:21:00 End Time: 13:51:00

Time On Btm: 2015.05.07 @ 08:44:30

Time Off Btm: 2015.05.07 @ 12:06:00

TEST COMMENT: 1st Opening 5 Minutexs-Fair blow built to 9 inches into the water
1st Shut-In 60 Minutes-Weak steady blow back
2nd Opening 45 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 10 minutes
2nd Shut-In 90 Minutes-Weak blow back through out



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1727.97	101.46	Initial Hydro-static
1	74.02	101.08	Open To Flow (1)
6	102.97	101.03	Shut-In(1)
65	142.57	103.73	End Shut-In(1)
66	137.49	103.80	Open To Flow (2)
110	220.45	108.80	Shut-In(2)
201	1094.33	108.87	End Shut-In(2)
202	1700.34	109.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	180 gAS IN THE PIP3	0.00
135.00	Mud cut gassy oil 28%Gas 22%Oil 50%M	1.89
120.00	Mud Cut Gassy oil 20%Gas 45%Oil 35%M	1.68
60.00	Slightly mud cut gassy oil	0.84
0.00	60%GAS 30%OIL 10%MUD	0.00
60.00	sLIGHTLY MUD CUT GASSY OIL	0.84

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company L.L.C.

12-19s-14w Barton

9431 East Central Suite 100
Wichita ,Kamsas 67206-2563

G.B.F #1-12

Job Ticket: 01033

DST#: 4

ATTN: Rene Husted

Test Start: 2015.05.07 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3435.00 ft	Diameter: 3.80 inches	Volume: 48.18 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: 3.22 inches	Volume: 0.00 bbl	Weight to Pull Loose:	75000.00 lb
			Total Volume: 48.18 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3443.00 ft			Final	61000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	66.60 ft				
Tool Length:	95.60 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			3419.00	
Hydraulic tool	5.00			3424.00	
Jars	7.00			3431.00	
Safety Joint	2.00		Fluid	3433.00	
Top Packer	5.00			3438.00	
Packer	5.00			3443.00	29.00 Bottom Of Top Packer
Anchor	5.00			3448.00	
Change Over Sub	0.75			3448.75	
Drill Pipe	30.10			3478.85	
Change Over Sub	0.75			3479.60	
Anchor	25.00			3504.60	
Recorder	0.00	9119	Inside	3504.60	
Recorder	0.00	9139	Outside	3504.60	
Bullnose	5.00			3509.60	66.60 Anchor Tool
Total Tool Length:	95.60				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company L.L.C.

12-19s-14w Barton

9431 East Central Suite 100
Wichita ,Kansas 67206-2563

G.B.F #1-12

Job Ticket: 01033

DST#: 4

ATTN: Rene Husted

Test Start: 2015.05.07 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 49.00 sec/qt
Water Loss: 7.60 in³
Resistivity: ohm.m
Salinity: 4600.00 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 gAS IN THE PIP3	0.000
135.00	Mud cut gassy oil 28%Gas 22%Oil 50%Mud	1.894
120.00	Mud Cut Gassy oil 20%Gas 45%Oil 35%Mud	1.683
60.00	Slightly mud cut gassy oil	0.842
0.00	60%GAS 30%OIL 10%MUD	0.000
60.00	sLIGHTLY MUD CUT GASSY OIL	0.842
0.00	50%GAS 40%OIL 10%MUD	0.000

Total Length: 375.00 ft Total Volume: 5.261 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

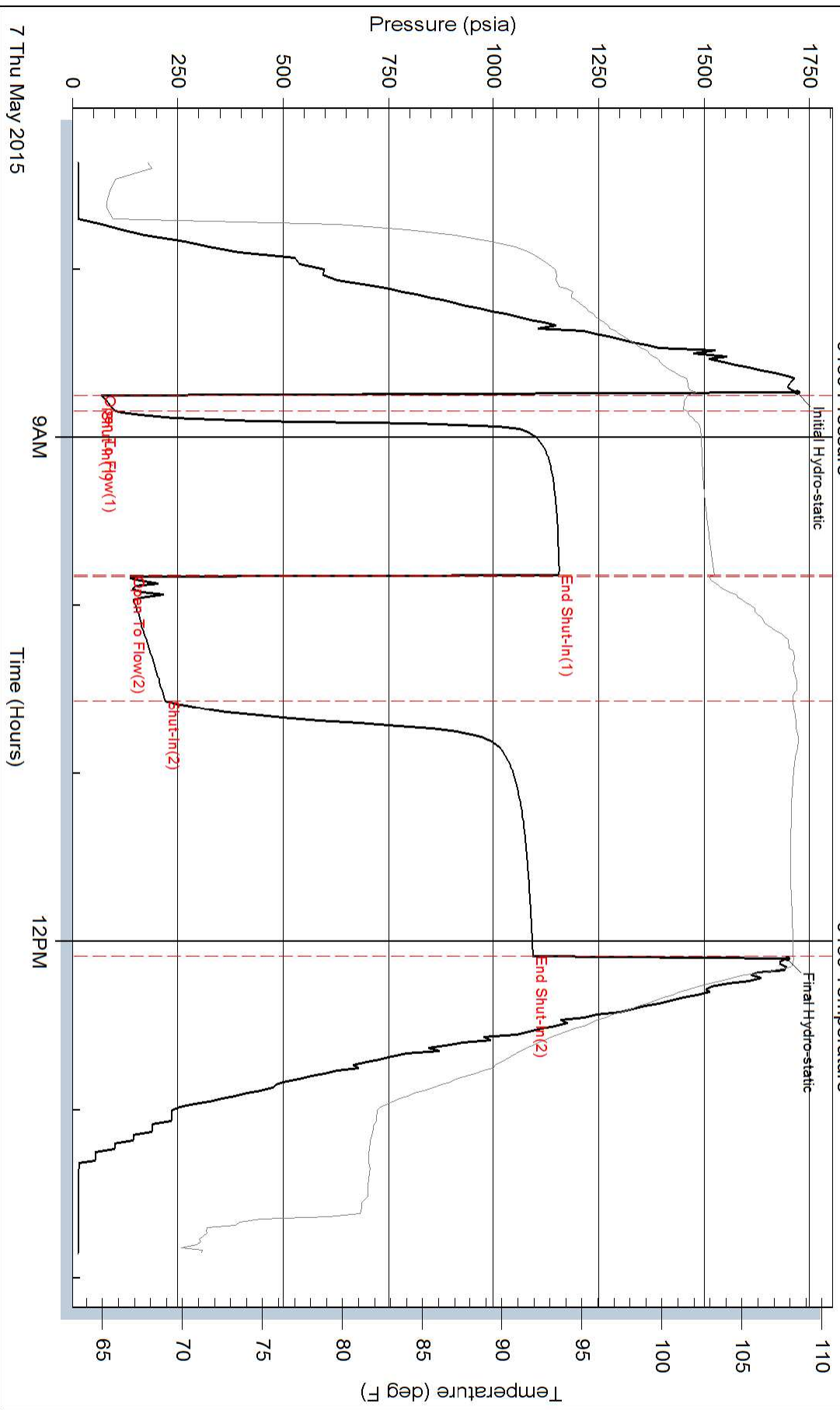
Serial #:

Laboratory Name:

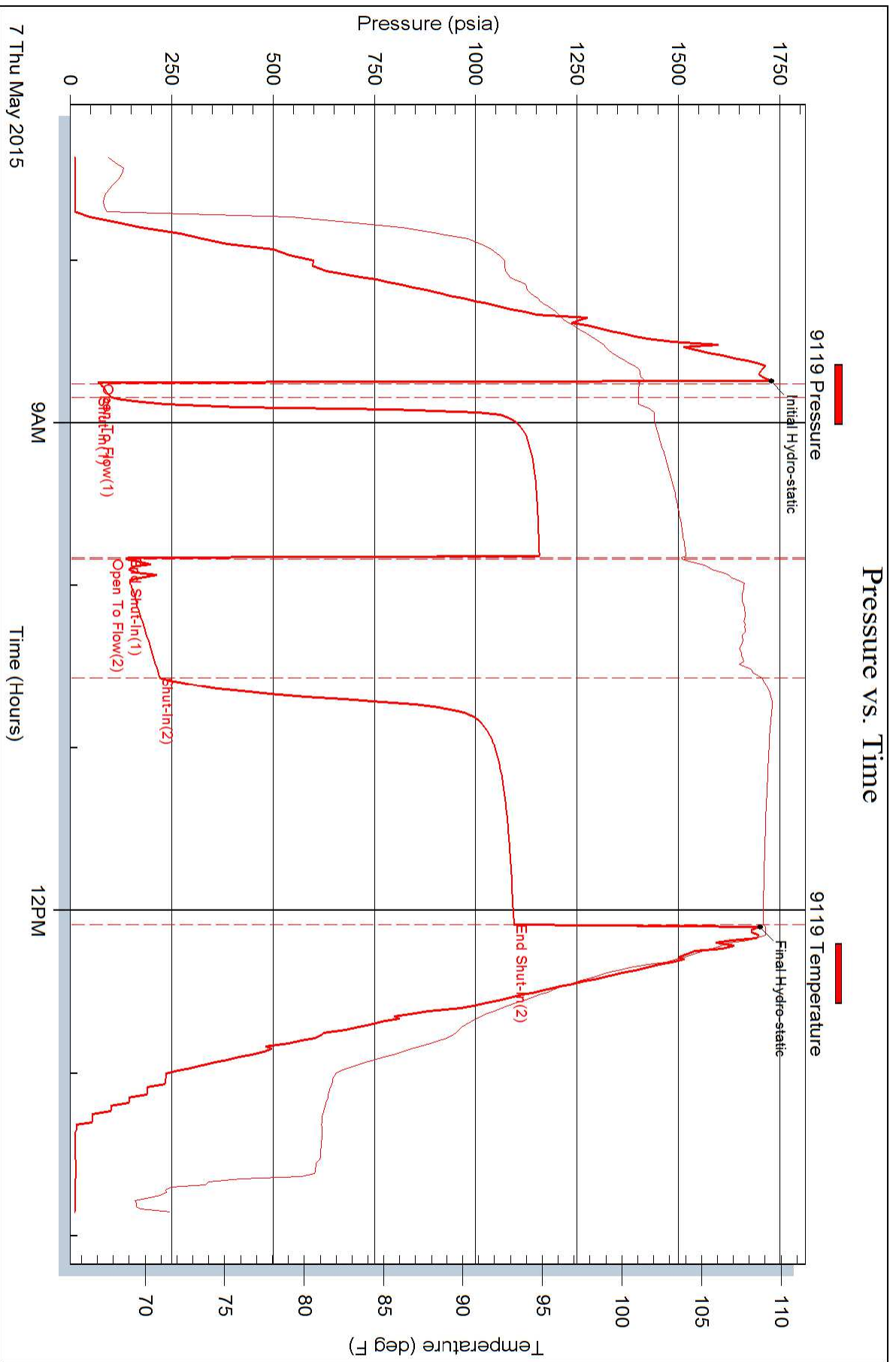
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita ,Kansas 67206-2563

ATTN: Rene Husted

G.B.F #1-12

12-19s-14w Barton

Start Date: 2015.05.07 @ 20:50:00

End Date: 2015.05.08 @ 01:11:30

Job Ticket #: 01035 DST #: 5

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

Printed: 2015.05.08 @ 01:32:46



DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

12-19s-14w Barton

9431 East Central Suite 100
Wichita ,Kansas 67206-2563

G.B.F #1-12

Job Ticket: 01035

DST#: 5

ATTN: Rene Husted

Test Start: 2015.05.07 @ 20:50:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:28:30

Time Test Ended: 01:11:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: 3510.00 ft (KB) To 3517.00 ft (KB) (TVD)

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3517.00 ft (KB) (TVD)

1878.00 ft (CF)

Hole Diameter: 788.00 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 3139 Outside

Press@RunDepth: 1193.34 psia @ 3512.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.05.07

End Date: 2015.05.08

Last Calib.: 2015.05.08

Start Time: 20:50:00

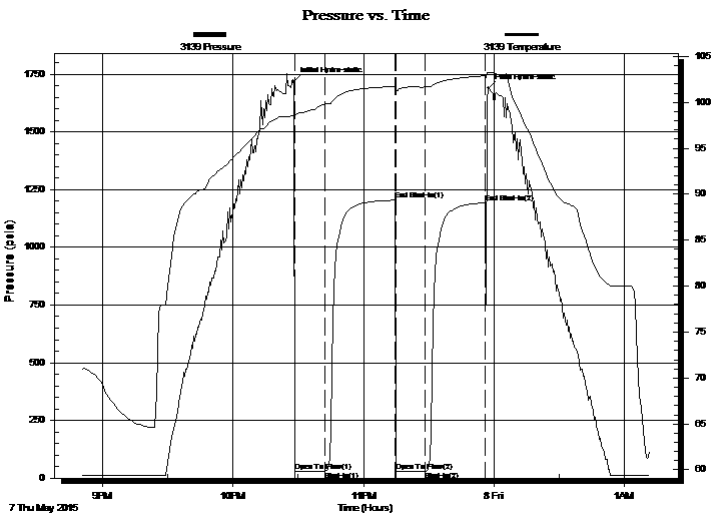
End Time: 01:11:30

Time On Btm: 2015.05.07 @ 22:28:00

Time Off Btm: 2015.05.07 @ 23:57:30

TEST COMMENT: 1st Opening 15 Minutes Weak blow for 9 minutes and died
1st Shut-In 30 minutes
2nd Opening 15 Minutes-No blow
2nd Shut-In 30 Minutes

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1717.64	98.67	Initial Hydro-static
1	27.68	98.40	Open To Flow (1)
15	29.02	99.82	Shut-In(1)
47	1204.40	101.74	End Shut-In(1)
47	29.46	101.16	Open To Flow (2)
61	30.20	101.67	Shut-In(2)
88	1193.34	102.90	End Shut-In(2)
90	1687.48	103.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	slighlty oil cut muf	0.07

Gas Rates

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



DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

12-19s-14w Barton

9431 East Central Suite 100
Wichita ,Kansas 67206-2563

G.B.F #1-12

Job Ticket: 01035

DST#: 5

ATTN: Rene Husted

Test Start: 2015.05.07 @ 20:50:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:28:30

Time Test Ended: 01:11:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: **3510.00 ft (KB) To 3517.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3517.00 ft (KB) (TVD)

1878.00 ft (CF)

Hole Diameter: 788.00 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **9139** Outside

Press@RunDepth: 1194.40 psia @ 3512.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.05.07 End Date: 2015.05.08

Last Calib.: 2015.05.08

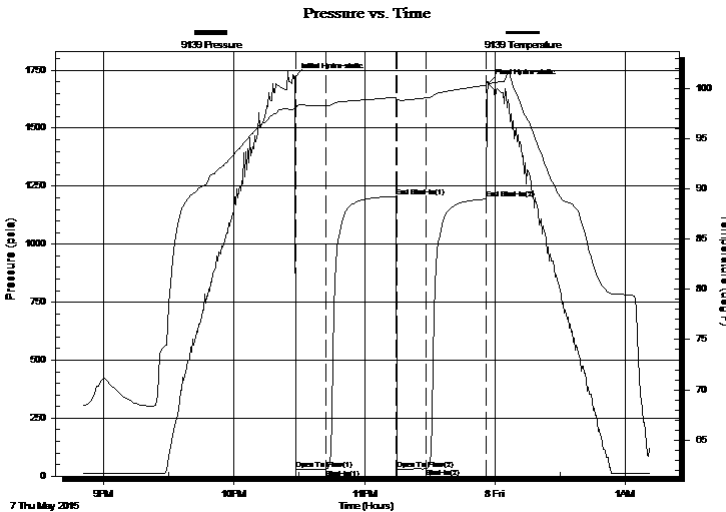
Start Time: 20:50:00 End Time: 01:11:30

Time On Btm: 2015.05.07 @ 22:28:00

Time Off Btm: 2015.05.07 @ 23:57:00

TEST COMMENT: 1st Opening 15 Minutes Weak blow for 9 minutes and died
1st Shut-In 30 minutes
2nd Opening 15 Minutes-No blow
2nd Shut-In 30 Minutes

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1719.97	98.05	Initial Hydro-static
1	28.62	98.06	Open To Flow (1)
15	30.17	98.33	Shut-In(1)
47	1205.59	99.16	End Shut-In(1)
47	30.50	98.78	Open To Flow (2)
61	31.34	99.09	Shut-In(2)
88	1194.40	100.37	End Shut-In(2)
89	1692.71	100.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	slighlty oil cut muf	0.07

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company L.L.C.

12-19s-14w Barton

9431 East Central Suite 100
Wichita ,Kamsas 67206-2563

G.B.F #1-12

Job Ticket: 01035

DST#: 5

ATTN: Rene Husted

Test Start: 2015.05.07 @ 20:50:00

Tool Information

Drill Pipe:	Length: 3497.00 ft	Diameter: 3.80 inches	Volume: 49.05 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 49.05 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3510.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	36.00 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			3486.00	
Hydraulic tool	5.00			3491.00	
Jars	7.00			3498.00	
Safety Joint	2.00		Fluid	3500.00	
Top Packer	5.00			3505.00	
Packer	5.00			3510.00	29.00 Bottom Of Top Packer
Anchor	2.00			3512.00	
Recorder	0.00	9119	Inside	3512.00	
Recorder	0.00	3139	Outside	3512.00	
Bullnose	5.00			3517.00	7.00 Anchor Tool
Total Tool Length:	36.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company L.L.C.

12-19s-14w Barton

9431 East Central Suite 100
Wichita ,Kansas 67206-2563

G.B.F #1-12

Job Ticket: 01035

DST#: 5

ATTN: Rene Husted

Test Start: 2015.05.07 @ 20:50:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 42.00 sec/qt
Water Loss: 7.60 in³
Resistivity: ohm.m
Salinity: 4600.00 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
5.00	slighlgy oil cut muf	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

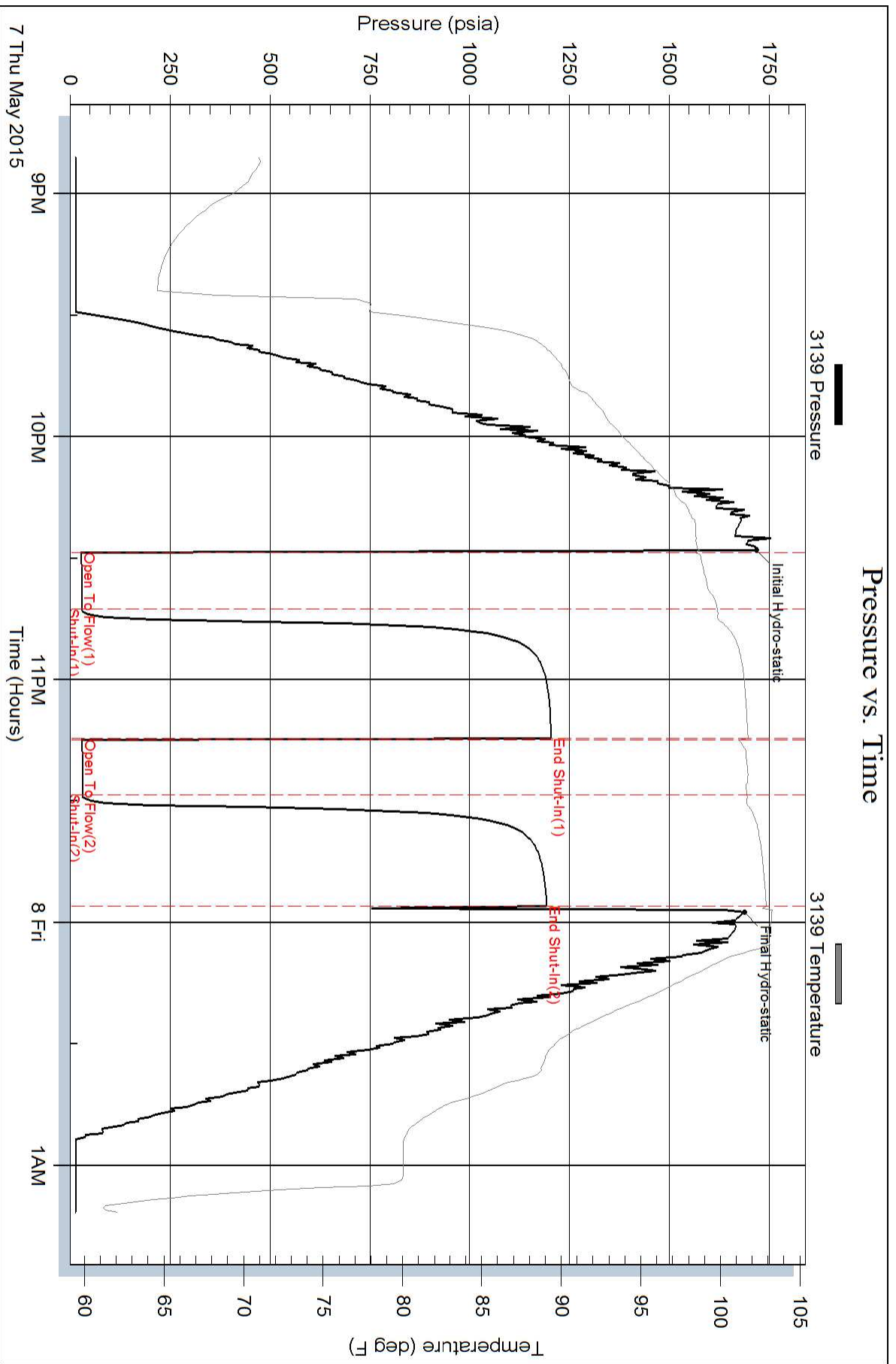
Serial #:

Laboratory Name:

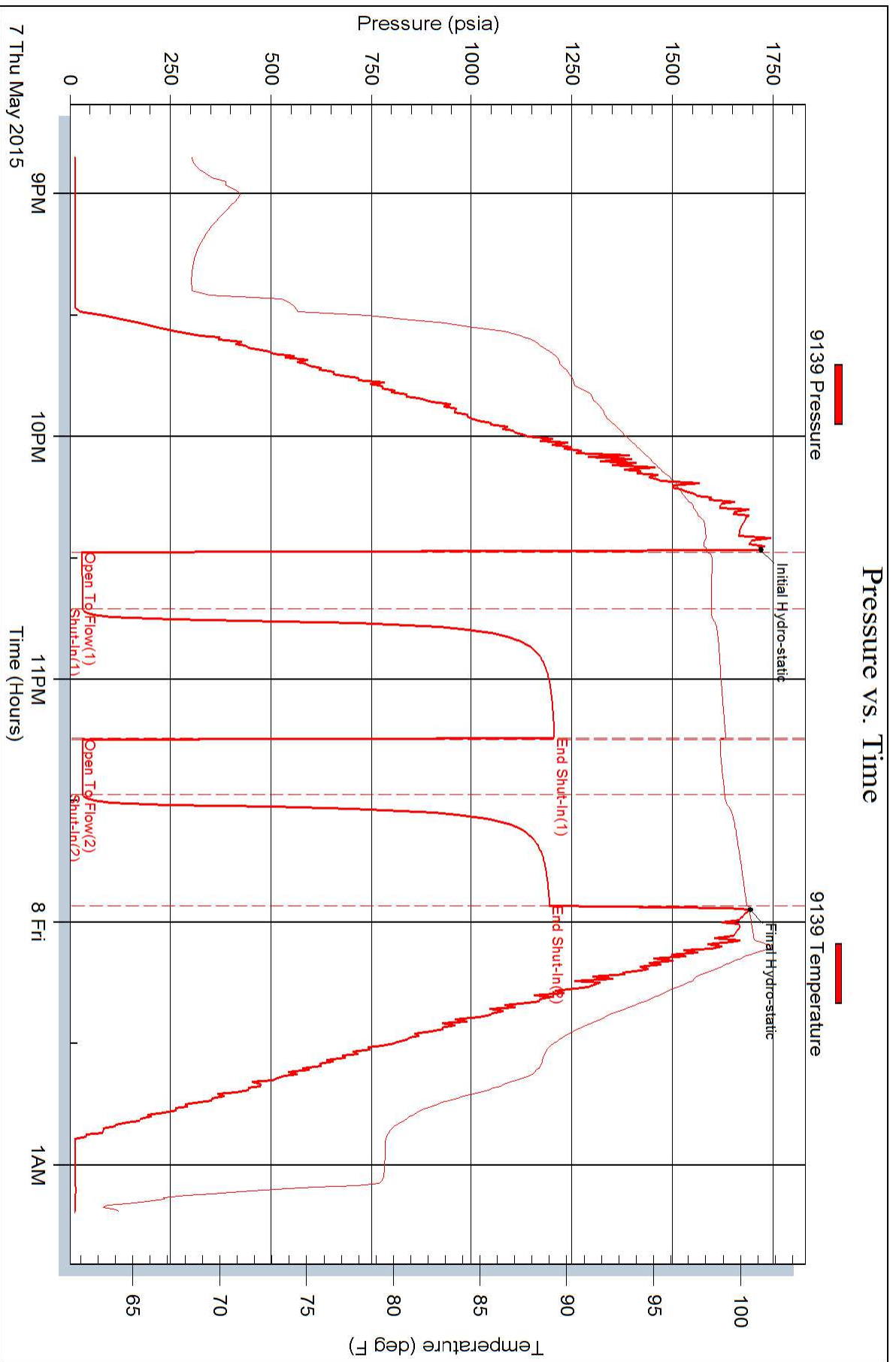
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita ,Kansas 67206-2563

ATTN: Rene Husted

G.B.F #1-12

12-19s-14w Barton

Start Date: 2015.05.08 @ 08:50:00

End Date: 2015.05.08 @ 12:58:00

Job Ticket #: 01036 DST #: 6

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

Printed: 2015.05.08 @ 14:10:26



DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

12-19s-14w Barton

9431 East Central Suite 100
Wichita ,Kansas 67206-2563

G.B.F #1-12

Job Ticket: 01036

DST#: 6

ATTN: Rene Husted

Test Start: 2015.05.08 @ 08:50:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:08:30

Time Test Ended: 12:58:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: **3517.00 ft (KB) To 3535.00 ft (KB) (TVD)**

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3535.00 ft (KB) (TVD)

1878.00 ft (CF)

Hole Diameter: 788.00 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **9139** Outside

Press@RunDepth: 36.77 psia @ 3530.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.05.08

End Date: 2015.05.08

Last Calib.: 2015.05.08

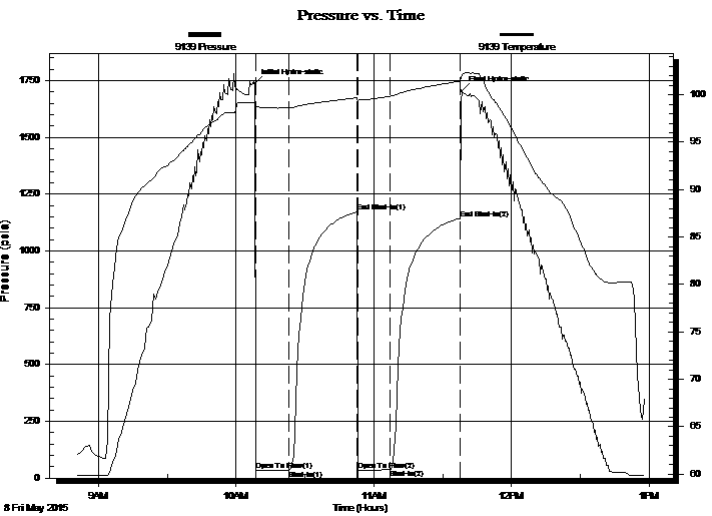
Start Time: 08:50:00

End Time: 12:58:00

Time On Btm: 2015.05.08 @ 10:08:00

Time Off Btm: 2015.05.08 @ 11:38:30

TEST COMMENT: 1st Opening 15 Minutes-very weak surface blow for 7 minutes and died
1st Shut-In 30 Minutes
2nd Opening 15 Minutes noblow
2nd Shut-In 30- Minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1737.12	99.22	Initial Hydro-static
1	32.88	98.73	Open To Flow (1)
15	34.54	98.63	Shut-In(1)
45	1170.81	99.70	End Shut-In(1)
45	34.95	99.23	Open To Flow (2)
59	36.77	99.84	Shut-In(2)
90	1143.56	101.43	End Shut-In(2)
91	1704.10	102.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Very slighty oil cut mud	0.07

Gas Rates

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



DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

12-19s-14w Barton

9431 East Central Suite 100
Wichita ,Kansas 67206-2563

G.B.F #1-12

Job Ticket: 01036

DST#: 6

ATTN: Rene Husted

Test Start: 2015.05.08 @ 08:50:00

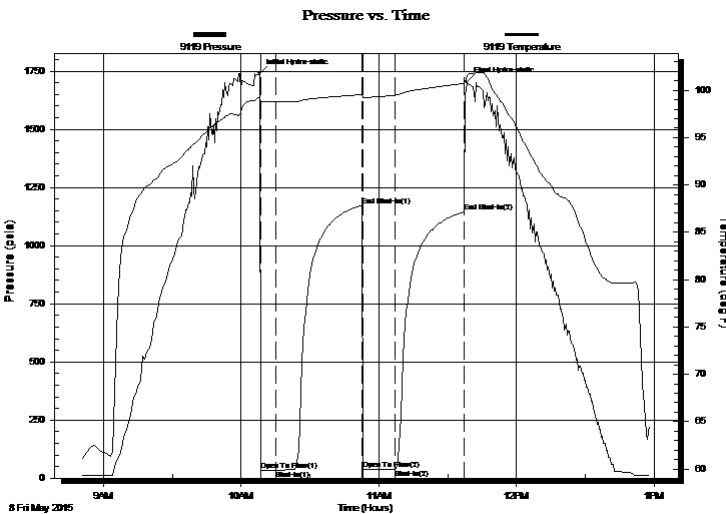
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:08:30
 Time Test Ended: 12:58:00
 Interval: **3517.00 ft (KB) To 3535.00 ft (KB) (TVD)**
 Total Depth: 3535.00 ft (KB) (TVD)
 Hole Diameter: 788.00 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 1
 Reference Elevations: 1886.00 ft (KB)
 1878.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 9119 Inside
 Press@RunDepth: 1143.70 psia @ 3530.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.05.08 End Date: 2015.05.08 Last Calib.: 2015.05.08
 Start Time: 08:50:00 End Time: 12:58:00 Time On Btm: 2015.05.08 @ 10:08:00
 Time Off Btm: 2015.05.08 @ 11:38:30

TEST COMMENT: 1st Opening 15 Minutes-very weak surface blow for 7 minutes and died
 1st Shut-In 30 Minutes
 2nd Opening 15 Minutes noblow
 2nd Shut-In 30- Minutes

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1740.94	99.25	Initial Hydro-static
1	34.10	98.82	Open To Flow (1)
7	34.96	98.78	Shut-In(1)
45	1172.38	99.55	End Shut-In(1)
45	36.09	99.21	Open To Flow (2)
59	37.90	99.47	Shut-In(2)
89	1143.70	100.71	End Shut-In(2)
91	1704.62	101.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Very slighty oil cut muid	0.07

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company L.L.C.

12-19s-14w Barton

9431 East Central Suite 100
Wichita ,Kamsas 67206-2563

G.B.F #1-12

Job Ticket: 01036

DST#: 6

ATTN: Rene Hustedad

Test Start: 2015.05.08 @ 08:50:00

Tool Information

Drill Pipe:	Length: 3496.00 ft	Diameter: 3.80 inches	Volume: 49.04 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 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:	lb
			<u>Total Volume: 49.04 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	61000.00 lb
Depth to Top Packer:	3517.00 ft			Final	61000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	18.00 ft				
Tool Length:	47.00 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			3493.00	
Hydraulic tool	5.00			3498.00	
Jars	7.00			3505.00	
Safety Joint	2.00		Fluid	3507.00	
Top Packer	5.00			3512.00	
Packer	5.00			3517.00	29.00 Bottom Of Top Packer
Anchor	13.00			3530.00	
Recorder	0.00	9119	Inside	3530.00	
Recorder	0.00	9139	Outside	3530.00	
Bullnose	5.00			3535.00	18.00 Anchor Tool
Total Tool Length:	47.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company L.L.C.

12-19s-14w Barton

9431 East Central Suite 100
Wichita ,Kansas 67206-2563

G.B.F #1-12

Job Ticket: 01036

DST#: 6

ATTN: Rene Husted

Test Start: 2015.05.08 @ 08:50:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 49.00 sec/qt
Water Loss: 7.20 in³
Resistivity: ohm.m
Salinity: 4400.00 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
5.00	Very slightly oil cut mud	0.070

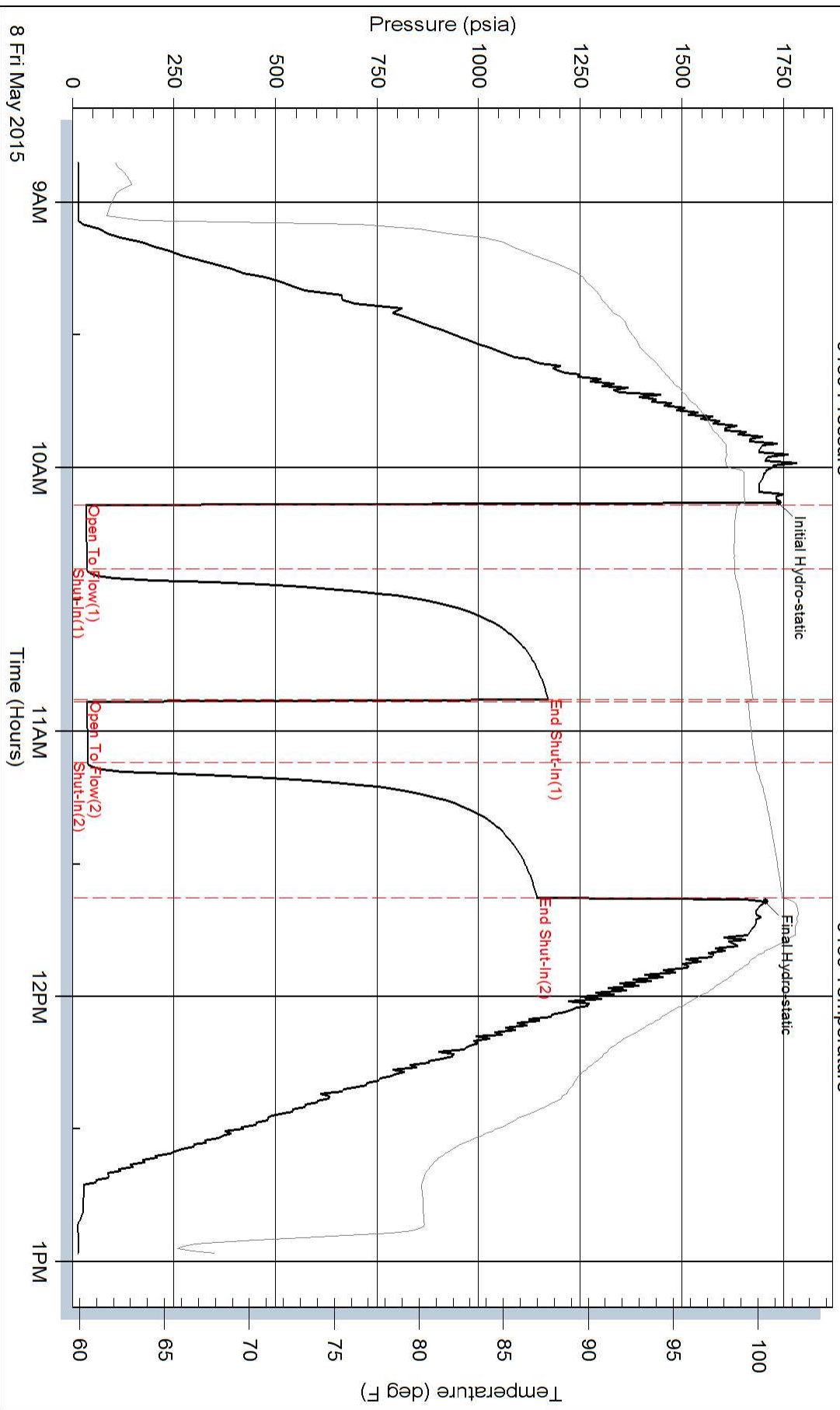
Total Length: 5.00 ft Total Volume: 0.070 bbl

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

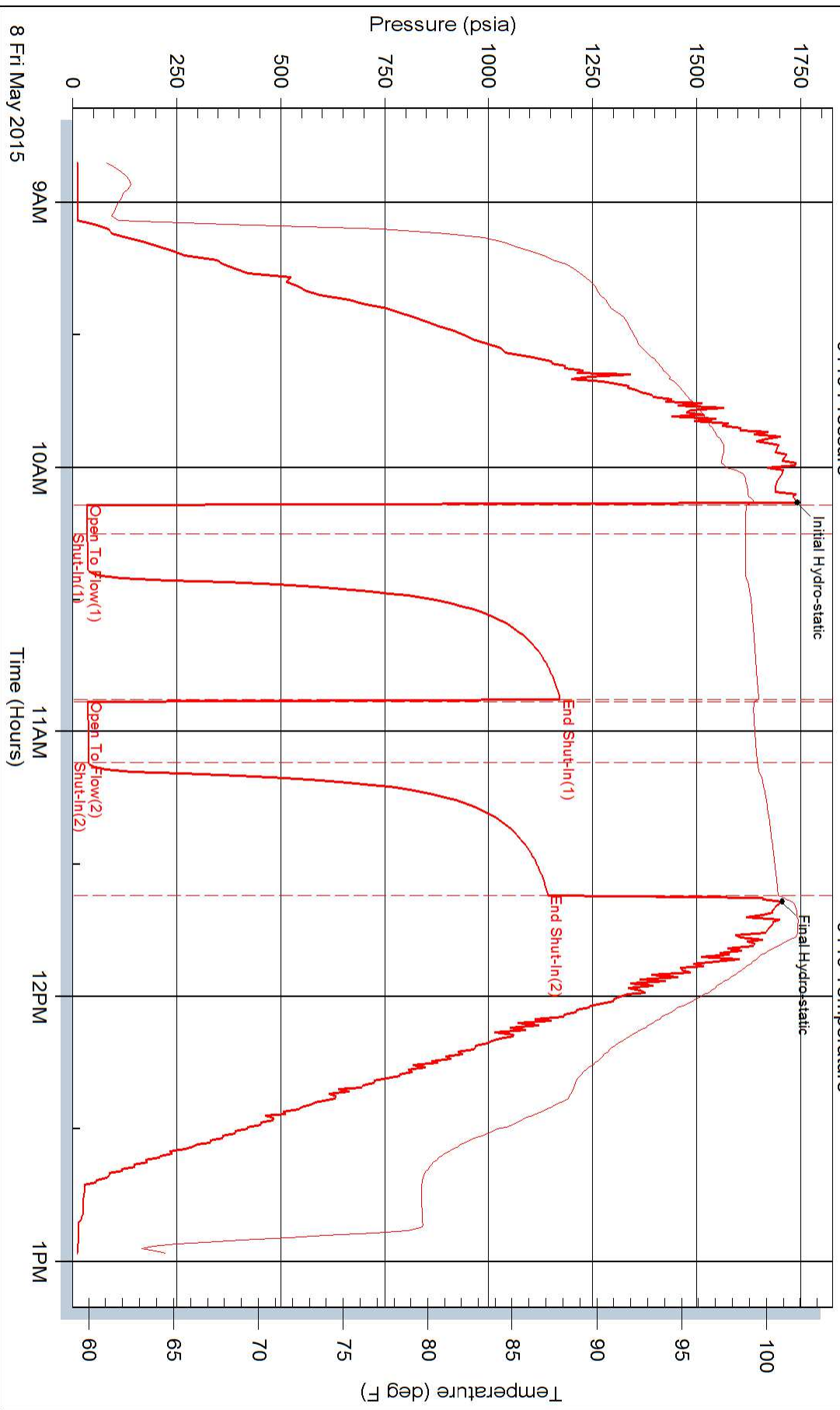
Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time



Customer <i>F.D. Hill</i>	Lease No.	Date <i>05-09-15</i>			
Lease <i>A.B. 7. 1-12</i>	Well #				
Field Order # <i>12479</i>	Station <i>PRATT KS</i>	Casing <i>5 1/2</i>	Depth <i>3700</i>	County <i>BARTON</i>	State <i>KS</i>
Type Job <i>CNW 5 1/2 log string</i>	Formation	Legal Description <i>12-19-14</i>			

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>5 1/2</i>								
Depth <i>3696'</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>90</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press <i>1500</i>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <i>P.P.</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>3105'</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative	Station Manager <i>DAVE SEXT</i>	Treater <i>Robert Sullivan</i>
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Service Units	<i>37900</i>	<i>84961</i>	<i>19843</i>	<i>19903</i>	<i>19860</i>				
Driver Names	<i>W.H.O.</i>	<i>Edwards</i>	<i>Blasi</i>	<i>Nystrom</i>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>6:00</i>					<i>OP loc</i>
					<i>RD 5 1/2 14" csg.</i>
<i>9:00</i>					<i>CASING on Bottom</i>
					<i>Hook up circ csg.</i>
<i>11:05</i>			<i>9</i>	<i>3.5</i>	<i>1st SPACER 1/2"</i>
			<i>12</i>		<i>Super Hal</i>
			<i>5</i>		<i>SPACED.</i>
			<i>6</i>	<i>4.5</i>	<i>mix Scavenger cmt 25 sk w/ 1/2 per</i>
			<i>32</i>		<i>mix AA 7 cmt 135 sk</i>
					<i>cmt mixed shut down, wash pump line</i>
					<i>Release Plug</i>
				<i>6</i>	<i>1st Disp</i>
					<i>LIFT PS.</i>
	<i>500</i>			<i>3</i>	<i>Flow Rate</i>
<i>11:45</i>	<i>1500</i>		<i>90</i>		<i>Plug lower</i>
			<i>7</i>		<i>plug RT w/ 30 sk copper per</i>
			<i>7</i>		<i>plug mth w/ 20 sk</i>
					<i>SOB complete</i>