



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Confidentiality Requested:

Yes No

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: _____



1172216

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 List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

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

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> <input type="checkbox"/> Other <i>(Specify)</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	MCDONALD 1-19
Doc ID	1172216

All Electric Logs Run

DIL
CDL/CNL
CPI
BHCS
Microresistivity
fracfinder

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	MCDONALD 1-19
Doc ID	1172216

Tops

Name	Top	Datum
Herrington	1720	+168
Winfield	1776	+112
Towanda	1840	+48
Fort Riley	1875	+13
B/Florence	1972	-84
Kinney Ls	1988	-100
Wrefold	2020	-132
Council Grove	2040	-152
Crouse	2079	-191
Neva	2210	-322
Red Eagle	2276	-388
Onaga Shale	2435	-547
Wabaunsee	2455	-567
Root Shale	2513	-625
Stotler	2584	-696
Tarkio	2640	-752
Howard	2778	-890
Severy Shale	2833	-945
Topeka	2854	-966
Heebner	3124	-1236
Toronto	3148	-1260
Douglas Shale	3159	-1271
Brown Lime	3238	-1350
LKC	3249	-1361

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	MCDONALD 1-19
Doc ID	1172216

Tops

Name	Top	Datum
Drum	3376	-1488
BKC	3461	-1573
Arbuckle	3508	-1620
RTD	3700	-1812

Summary of Changes

Lease Name and Number: MCDONALD 1-19

API/Permit #: 15-009-25856-00-00

Doc ID: 1172216

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	11/05/2013	04/30/2014
Completion Or Recompletion Date	10/31/2013	01/08/2014
Date of First or Resumed Production or SWD or Enhr Field Name		02/01/2014 Pritchard North
Fracturing Question 1		No
LocationInfoLink	https://solar.kgs.ku.edu/ kcc/detail/locationInform ation.cfm?section=19&t	https://kolar.kgs.ku.edu/ kcc/detail/locationInform ation.cfm?section=19&t
Method Of Completion - Commingled	No	Yes
Perf_Record_1	3387' - 3392', 3395' - 3403'	3387' - 3392', 3395' - 3403' LKC
Perf_Record_3		3546'-52', 3555'-57' Arbuckle
Producing Formation	Lansing-Kansas City	Lansing-Kansas City & Arbuckle

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Producing Method Pumping	No	Yes
Production Interval #1	3387' - 3403'	3387' - 3403' LKC
Production Interval #2	Lansing-Kansas City	3546' - 3557' Arbuckle
Purchaser's Name		NCRA
Save Link	../..kcc/detail/operatorEditDetail.cfm?docID=1159026	../..kcc/detail/operatorEditDetail.cfm?docID=1172216



CONFIDENTIAL

WELL COMPLETION FORM

Form Must Be Typed
Form must be Signed
All blanks must be Filled

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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report 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	MCDONALD 1-19
Doc ID	1159026

All Electric Logs Run

DIL
CDL/CNL
CPI
BHCS
Microresistivity
fracfinder

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	MCDONALD 1-19
Doc ID	1159026

Tops

Name	Top	Datum
Herrington	1720	+168
Winfield	1776	+112
Towanda	1840	+48
Fort Riley	1875	+13
B/Florence	1972	-84
Kinney Ls	1988	-100
Wrefold	2020	-132
Council Grove	2040	-152
Crouse	2079	-191
Neva	2210	-322
Red Eagle	2276	-388
Onaga Shale	2435	-547
Wabaunsee	2455	-567
Root Shale	2513	-625
Stotler	2584	-696
Tarkio	2640	-752
Howard	2778	-890
Severy Shale	2833	-945
Topeka	2854	-966
Heebner	3124	-1236
Toronto	3148	-1260
Douglas Shale	3159	-1271
Brown Lime	3238	-1350
LKC	3249	-1361

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	MCDONALD 1-19
Doc ID	1159026

Tops

Name	Top	Datum
Drum	3376	-1488
BKC	3461	-1573
Arbuckle	3508	-1620
RTD	3700	-1812

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	MCDONALD 1-19
Doc ID	1159026

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3387' - 3392', 3395' - 3403'	500 gal 10% Acetic acid	
		700 gal 10% Mira acid	
		150 gal 15% nefe acid, 500#s salt plu, 1000 gal 15% nefe acid, 18 bbls KCL water flush	
		2000 gal 10% Mira acid, 150 gal 15% & 500 gal 28% acid	

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

September 19, 2013

Franklin R. Greenbaum
F. G. Holl Company L.L.C.
9431 E CENTRAL STE 100
WICHITA, KS 67206-2563

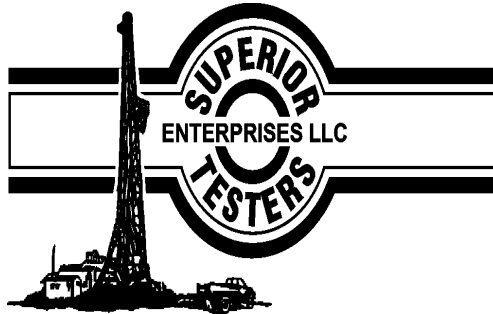
Re: ACO1
API 15-009-25856-00-00
MCDONALD 1-19
NE/4 Sec.19-20S-13W
Barton County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Franklin R. Greenbaum



DRILL STEM TEST REPORT

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

9431 East Central Suite100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

McDonald #1-19

19-20s-13w Barton

Start Date: 2013.07.21 @ 00:00:00

End Date: 2013.07.21 @ 00:00:00

Job Ticket #: 17747 DST #: 1

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

Printed: 2013.07.21 @ 12:21:43

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

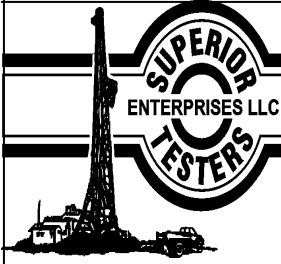
19-20s-13w Barton

McDonald #1-19

DST # 1

Lansing Kansas City

2013.07.21



DRILL STEM TEST REPORT

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

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17747

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2013.07.21 @ 00:00:00

GENERAL INFORMATION:

Formation: **Lansing Kansas City**

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: 3335-14

Interval: 3242.00 ft (KB) To 3290.00 ft (KB) (TVD)

Reference Elevations: 1888.00 ft (KB)

Total Depth: 3290.00 ft (KB) (TVD)

1880.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6748 Outside

Press@RunDepth: 203.32 psia @ 3287.18 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.07.21

End Date:

2013.07.21

Last Calib.:

2013.07.21

Start Time: 07:15:00

End Time:

11:36:30

Time On Btm:

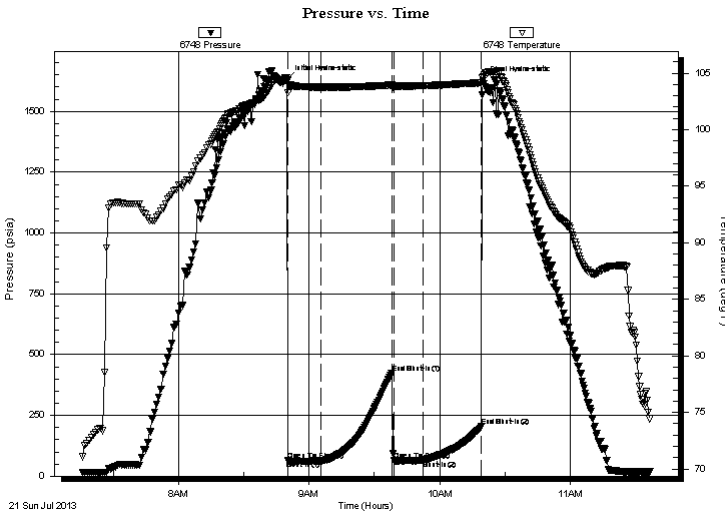
2013.07.21 @ 08:50:00

Time Off Btm:

2013.07.21 @ 10:20:00

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

PRESSURE SUMMARY



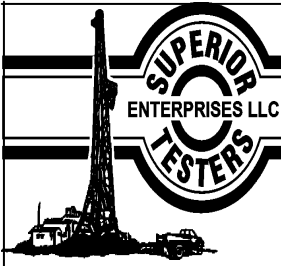
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1630.04	104.37	Initial Hydro-static
1	64.51	103.30	Open To Flow (1)
16	63.11	103.76	Shut-In(1)
48	423.00	103.96	End Shut-In(1)
49	64.04	103.85	Open To Flow (2)
63	66.41	103.90	Shut-In(2)
89	203.32	104.16	End Shut-In(2)
90	1625.58	104.69	Final Hydro-static

Recovery

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

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company L.L.C.
 9431 East Central Suite100
 Wichita, Kansas 67206-2563
 ATTN: Ryan Greenbaum

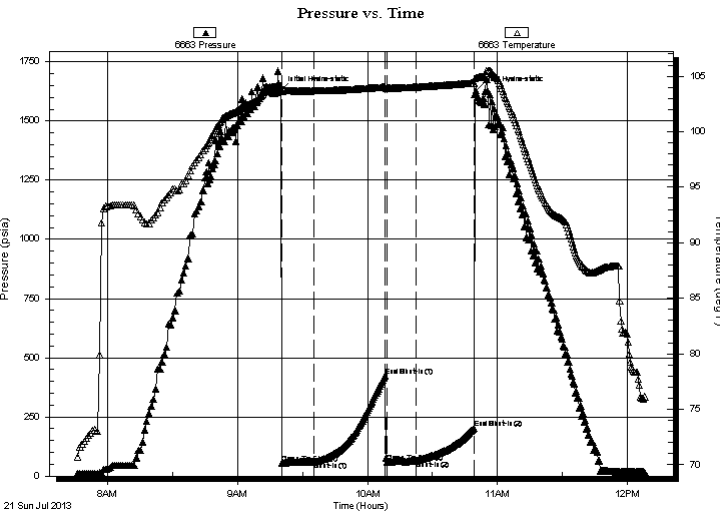
19-20s-13w Barton
McDonald #1-19
 Job Ticket: 17747 **DST#: 1**
 Test Start: 2013.07.21 @ 00:00:00

GENERAL INFORMATION:

Formation: **Lansing Kansas City**
 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: 3335-14
 Interval: **3242.00 ft (KB) To 3290.00 ft (KB) (TVD)**
 Reference Elevations: 1888.00 ft (KB)
 Total Depth: 3290.00 ft (KB) (TVD) 1880.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6663 Inside
 Press@RunDepth: 203.43 psia @ 3286.18 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.21 End Date: 2013.07.21 Last Calib.: 2013.07.21
 Start Time: 07:45:00 End Time: 12:08:00 Time On Btm: 2013.07.21 @ 09:20:00
 Time Off Btm: 2013.07.21 @ 10:50:00

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



PRESSURE SUMMARY

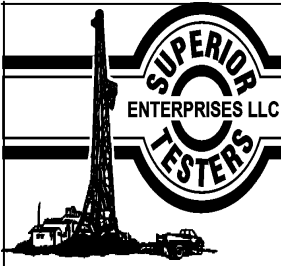
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1627.80	104.14	Initial Hydro-static
1	55.45	103.61	Open To Flow (1)
15	61.77	103.68	Shut-In(1)
48	424.29	104.03	End Shut-In(1)
49	60.32	103.93	Open To Flow (2)
63	66.58	104.03	Shut-In(2)
89	203.43	104.39	End Shut-In(2)
90	1627.70	104.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Drilling 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.
 9431 East Central Suite100
 Wichita, Kansas 67206-2563
 ATTN: Ryan Greenbaum

19-20s-13w Barton
McDonald #1-19
 Job Ticket: 17747 **DST#: 1**
 Test Start: 2013.07.21 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3244.00 ft	Diameter: 3.80 inches	Volume: 45.50 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 45.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3242.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.18 ft			
Tool Length:	76.18 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			3219.00	
Hydraulic Tool	5.00			3224.00	
Safety Joint	2.00			3226.00	
Jars	6.00			3232.00	
Packer	5.00			3237.00	28.00 Bottom Of Top Packer
Packer	5.00			3242.00	
Anchor	5.00			3247.00	
Change Over Sub	0.75			3247.75	
Drill Pipe	30.68			3278.43	
Change Over Sub	0.75			3279.18	
Anchor	6.00			3285.18	
Recorder	1.00	6663	Inside	3286.18	
Recorder	1.00	6748	Outside	3287.18	
Bullnose	3.00			3290.18	48.18 Bottom Packers & Anchor

Total Tool Length: 76.18



DRILL STEM TEST REPORT

FLUID SUMMARY

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

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17747

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2013.07.21 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 6700.00 ppm

Filter Cake: 1.00 inches

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

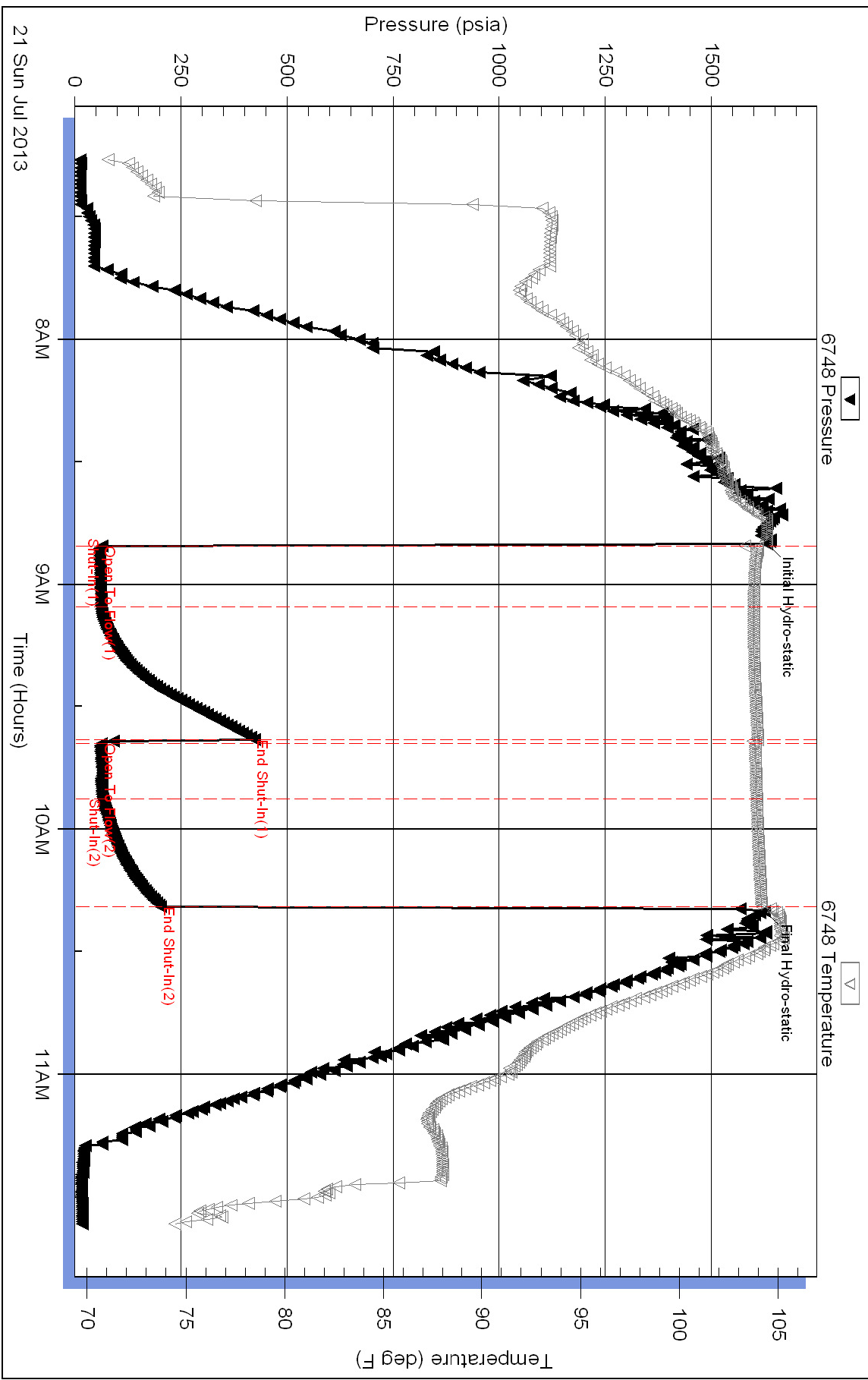
Serial #:

Laboratory Name:

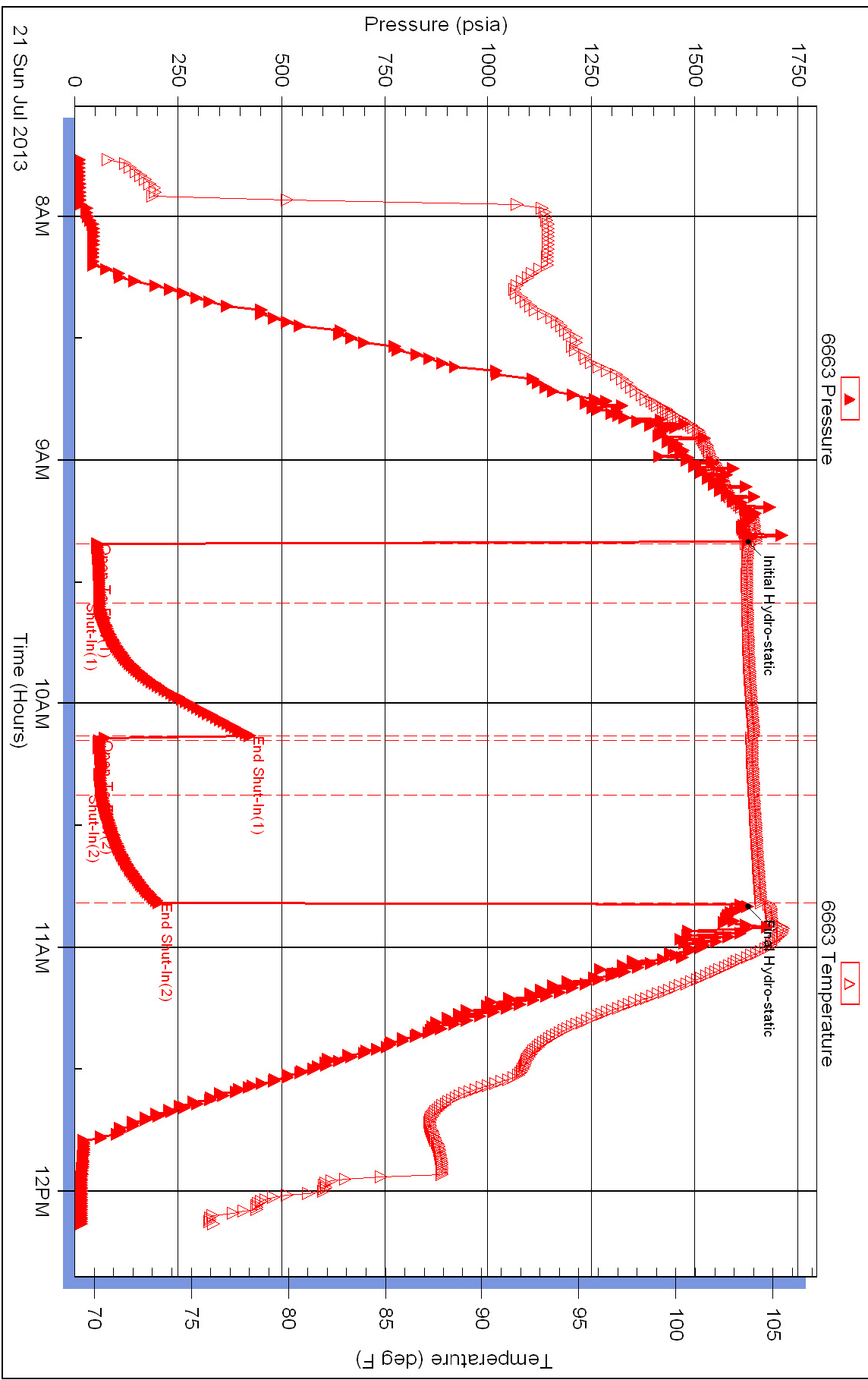
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

McDonald #1-19

19-20s-13w Barton

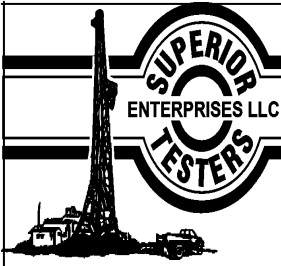
Start Date: 2013.07.21 @ 00:00:00

End Date: 2013.07.21 @ 00:00:00

Job Ticket #: 17748 DST #: 2

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

Printed: 2013.07.22 @ 00:15:30



DRILL STEM TEST REPORT

F.G. Holl Company L.L.C.
 9431 East Central Suite100
 Wichita, Kansas 67206-2563
 ATTN: Ryan Greenbaum

19-20s-13w Barton
McDonald #1-19
 Job Ticket: 17748 **DST#:2**
 Test Start: 2013.07.21 @ 00:00:00

GENERAL INFORMATION:

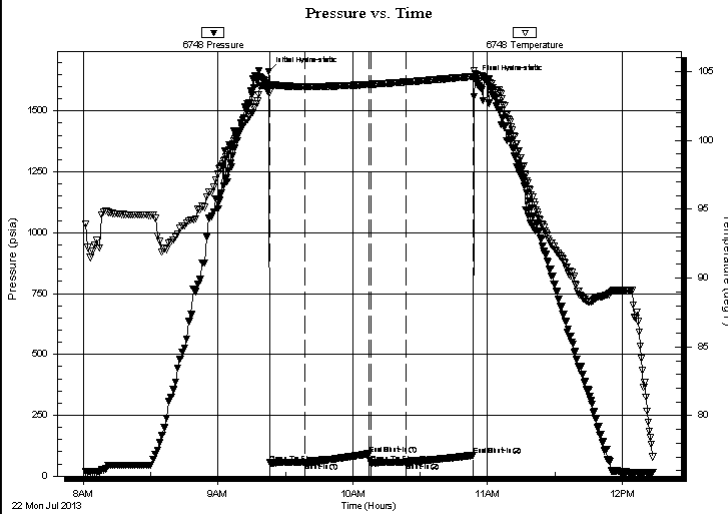
Formation: **Kansas City "C,D,E &**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
Interval: 3280.00 ft (KB) To 3326.00 ft (KB) (TVD)
 Total Depth: 3290.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gene Budig
 Unit No: 3335-14
 Reference Elevations: 1888.00 ft (KB)
 1880.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6748

Outside

Press@RunDepth: 85.49 psia @ 3323.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.22 End Date: 2013.07.22 Last Calib.: 2013.07.22
 Start Time: 08:00:00 End Time: 12:13:30 Time On Btm: 2013.07.22 @ 09:22:30
 Time Off Btm: 2013.07.22 @ 10:54:30

TEST COMMENT: 1st Opening 15 Minutes Weak surface blow for 11 minutes and died
 1st Shut-In 30 Minutes No blow Back
 2nd Opening 15 Minutes Weak surface blow for 3 minutes and died
 2nd Shut-In 30 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1661.69	104.03	Initial Hydro-static
1	54.35	103.51	Open To Flow (1)
16	57.80	103.92	Shut-In(1)
45	91.78	104.07	End Shut-In(1)
46	53.52	104.07	Open To Flow (2)
61	57.77	104.24	Shut-In(2)
91	85.49	104.64	End Shut-In(2)
92	1626.62	104.87	Final Hydro-static

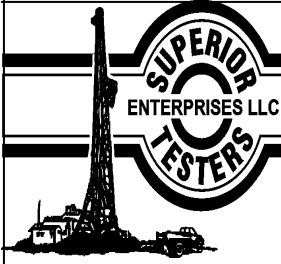
Recovery

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

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company L.L.C.
 9431 East Central Suite100
 Wichita, Kansas 67206-2563
 ATTN: Ryan Greenbaum

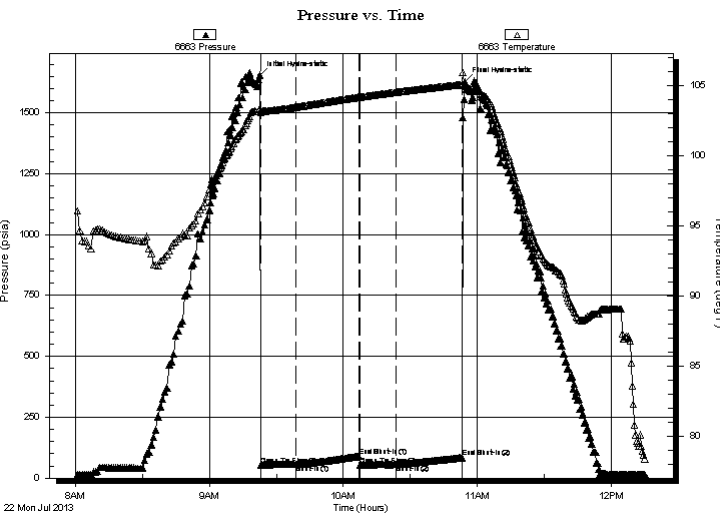
19-20s-13w Barton
McDonald #1-19
 Job Ticket: 17748 **DST#:2**
 Test Start: 2013.07.21 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "C,D,E &**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 00:00:00 Tester: Gene Budig
 Time Test Ended: 00:00:00 Unit No: 3335-14
Interval: 3280.00 ft (KB) To 3326.00 ft (KB) (TVD) Reference Elevations: 1888.00 ft (KB)
 Total Depth: 3290.00 ft (KB) (TVD) 1880.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6663 Inside
 Press@RunDepth: 83.95 psia @ 3322.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.22 End Date: 2013.07.22 Last Calib.: 2013.07.22
 Start Time: 08:00:00 End Time: 12:15:00 Time On Btm: 2013.07.22 @ 09:22:30
 Time Off Btm: 2013.07.22 @ 10:54:30

TEST COMMENT: 1st Opening 15 Minutes Weak surface blow for 11 minutes and died
 1st Shut-In 30 Minutes No blow Back
 2nd Opening 15 Minutes Weak surface blow for 3 minutes and died
 2nd Shut-In 30 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1654.18	103.32	Initial Hydro-static
1	54.72	103.09	Open To Flow (1)
16	57.45	103.44	Shut-In(1)
45	90.15	104.17	End Shut-In(1)
45	51.83	104.16	Open To Flow (2)
61	56.37	104.51	Shut-In(2)
91	83.95	105.06	End Shut-In(2)
92	1626.99	104.79	Final Hydro-static

Recovery

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

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17748

DST#:2

ATTN: Ryan Greenbaum

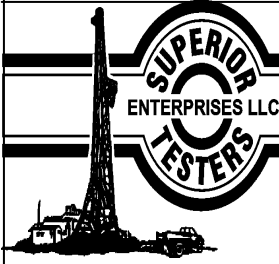
Test Start: 2013.07.21 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3272.00 ft	Diameter: 3.80 inches	Volume: 45.90 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: lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 45.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3280.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	74.00 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			3257.00	
Hydraulic Tool	5.00			3262.00	
Safety Joint	2.00			3264.00	
Jars	6.00			3270.00	
Packer	5.00			3275.00	28.00 Bottom Of Top Packer
Packer	5.00			3280.00	
Anchor	41.00			3321.00	
Recorder	1.00	6663	Inside	3322.00	
Recorder	1.00	6748	Outside	3323.00	
Bullnose	3.00			3326.00	46.00 Bottom Packers & Anchor
Total Tool Length:	74.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

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

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17748

DST#:2

ATTN: Ryan Greenbaum

Test Start: 2013.07.21 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 6700.00 ppm

Filter Cake: 1.00 inches

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

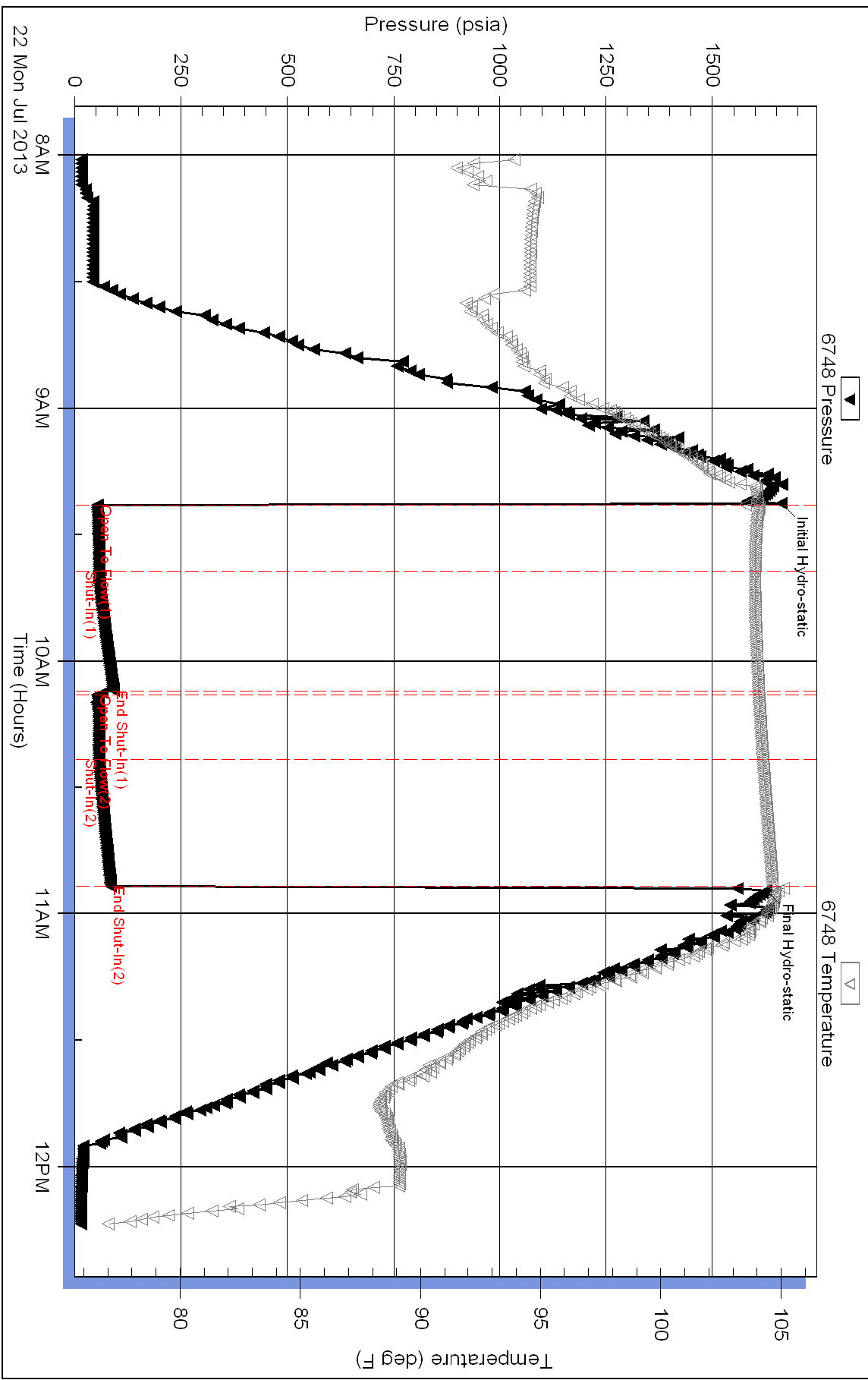
Serial #:

Laboratory Name:

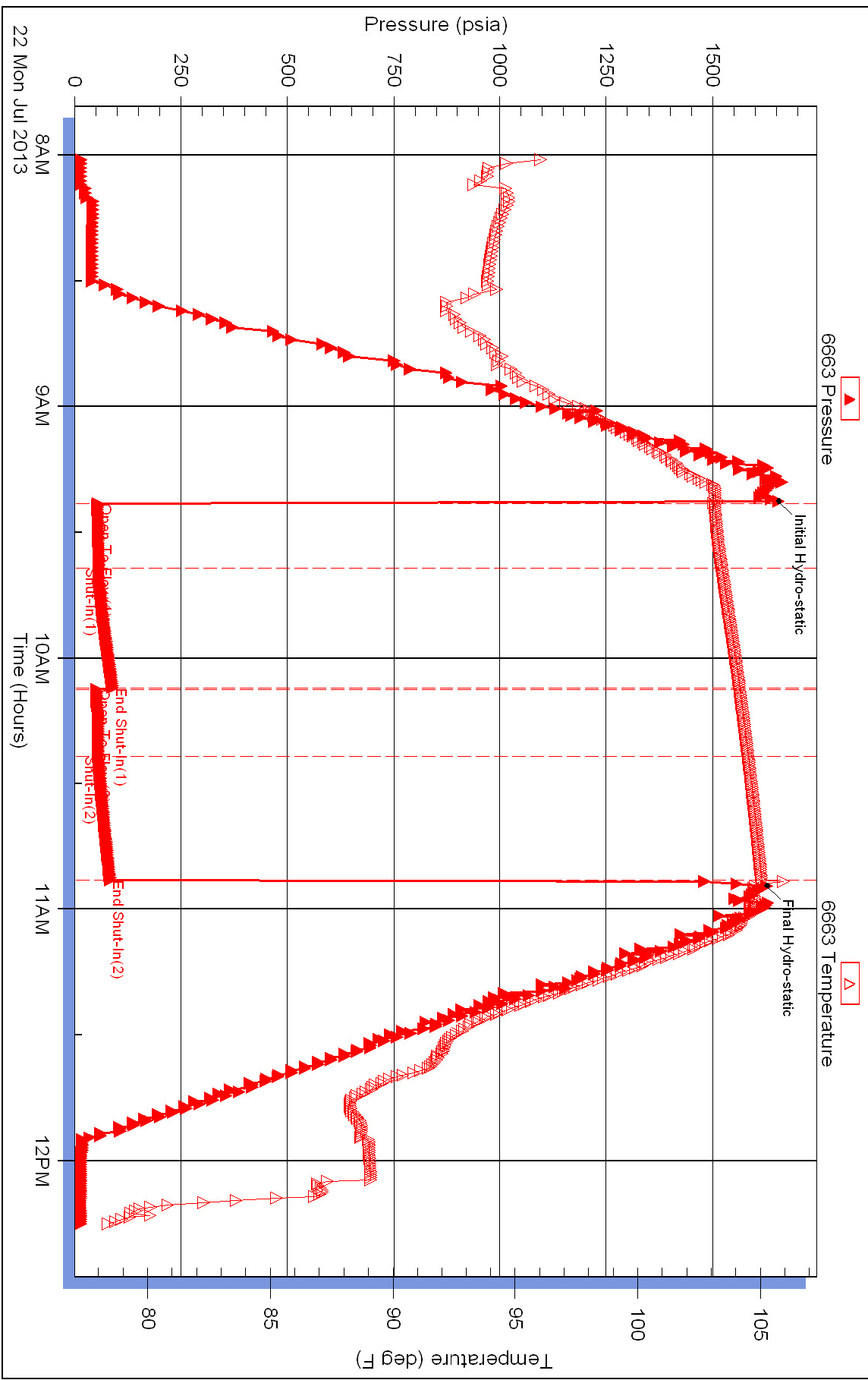
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

McDonald #1-19

19-20s-13w Barton

Start Date: 2013.07.22 @ 00:00:00

End Date: 2013.07.22 @ 00:00:00

Job Ticket #: 17749 DST #: 3

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

Printed: 2013.07.22 @ 19:34:08

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

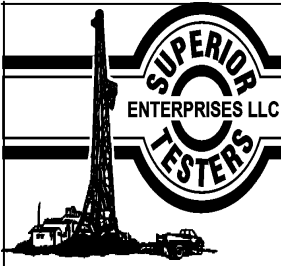
19-20s-13w Barton

McDonald #1-19

DST # 3

Kansas City "H & I"

2013.07.22



DRILL STEM TEST REPORT

F.G. Holl Company L.L.C.
 9431 East Central Suite100
 Wichita, Kansas 67206-2563
 ATTN: Ryan Greenbaum

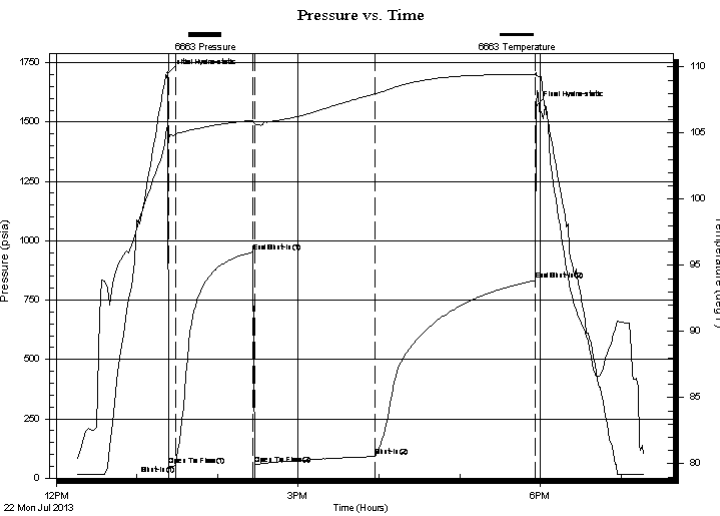
19-20s-13w Barton
McDonald #1-19
 Job Ticket: 17749 **DST#: 3**
 Test Start: 2013.07.22 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "H & I"**
 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: 3335
 Interval: **3365.00 ft (KB) To 3405.00 ft (KB) (TVD)**
 Reference Elevations: 1888.00 ft (KB)
 Total Depth: 3365.00 ft (KB) (TVD) 1880.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6663 Inside
 Press@RunDepth: 833.06 psia @ 3401.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.22 End Date: 2013.07.22 Last Calib.: 2013.07.22
 Start Time: 12:15:00 End Time: 19:18:00 Time On Btm: 2013.07.22 @ 13:23:00
 Time Off Btm: 2013.07.22 @ 17:57:00

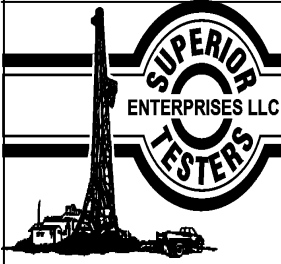
TEST COMMENT: 1st Opening 5 Minutes Buit to the bottom of a 5 gallon bucket in 3 minutes
 1st shut-In 60 Minutes-No blow back
 2nd Opening 90 Minutes-Good blow built to the bottom of a 5 gallon bucket in 30 Seconds
 2nd Shut-In 120 Minutes -Fair blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1705.91	105.52	Initial Hydro-static
1	54.51	105.15	Open To Flow (1)
6	52.18	104.94	Shut-In(1)
64	952.36	105.98	End Shut-In(1)
65	59.61	105.73	Open To Flow (2)
154	91.00	107.96	Shut-In(2)
273	833.06	109.44	End Shut-In(2)
274	1568.50	109.39	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	1250 Feet of Gas the pipe	0.00
100.00	Heavy oi and gas cut mud	1.40
0.00	25%Gas 45% Oil 30%Mud	0.00

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



DRILL STEM TEST REPORT

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

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17749

DST#: 3

ATTN: Ryan Greenbaum

Test Start: 2013.07.22 @ 00:00:00

GENERAL INFORMATION:

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

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: 3335

Interval: 3365.00 ft (KB) To 3405.00 ft (KB) (TVD)

Reference Elevations: 1888.00 ft (KB)

Total Depth: 3365.00 ft (KB) (TVD)

1880.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6748 Outside

Press@RunDepth: 834.91 psia @ 3402.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.07.22

End Date: 2013.07.22

Last Calib.: 2013.07.22

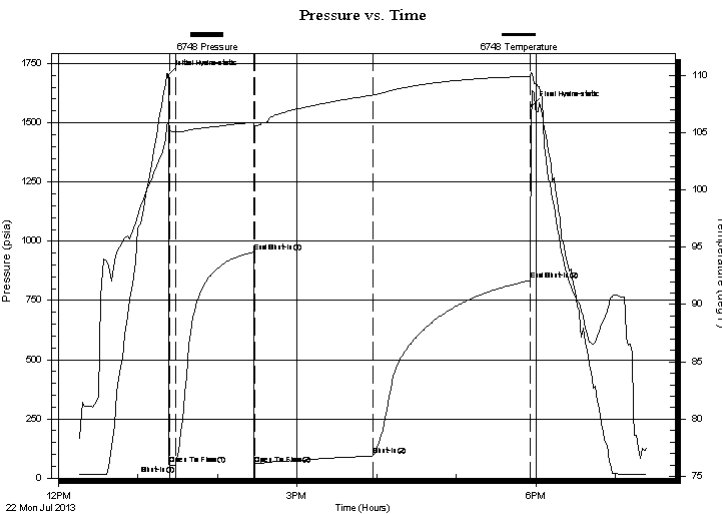
Start Time: 12:15:00

End Time: 19:23:30

Time On Btm: 2013.07.22 @ 13:23:00

Time Off Btm: 2013.07.22 @ 17:57:00

TEST COMMENT: 1st Opening 5 Minutes Buit to the bottom of a 5 gallon bucket in 3 minutes
1st shut-In 60 Minutes-No blow back
2nd Opening 90 Minutes-Good blow built to the bottom of a 5 gallon bucket in 30 Seconds
2nd Shut-In 120 Minutes -Fair blow back



PRESSURE SUMMARY

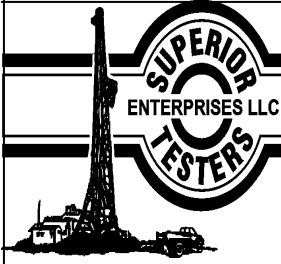
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1703.41	105.78	Initial Hydro-static
1	56.91	105.28	Open To Flow (1)
6	54.20	105.02	Shut-In(1)
64	954.32	105.88	End Shut-In(1)
65	59.22	105.63	Open To Flow (2)
155	95.22	108.27	Shut-In(2)
273	834.91	109.89	End Shut-In(2)
274	1571.32	110.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1250 Feet of Gas the pipe	0.00
100.00	Heavy oi and gas cut mud	1.40
0.00	25%Gas 45% Oil 30%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.

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17749

DST#: 3

ATTN: Ryan Greenbaum

Test Start: 2013.07.22 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3348.00 ft	Diameter: 3.80 inches	Volume: 46.96 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	58000.00 lb
			<u>Total Volume: 46.96 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial	49000.00 lb
Depth to Top Packer:	3365.00 ft			Final	49000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	60.00 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			3350.00	
Hydraulic Tool	5.00			3355.00	
Packer	5.00			3360.00	20.00 Bottom Of Top Packer
Packer	5.00			3365.00	
Anchor	35.00			3400.00	
Recorder	1.00	6663	Inside	3401.00	
Recorder	1.00	6748	Outside	3402.00	
Bullnose	3.00			3405.00	40.00 Bottom Packers & Anchor

Total Tool Length: 60.00



DRILL STEM TEST REPORT

FLUID SUMMARY

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

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17749

DST#: 3

ATTN: Ryan Greenbaum

Test Start: 2013.07.22 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 55.00 sec/qt
Water Loss: 9.20 in³
Resistivity: ohm.m
Salinity: 6700.00 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	1250 Feet of Gas the pipe	0.000
100.00	Heavy oi and gas cut mud	1.403
0.00	25%Gas 45% Oil 30%Mud	0.000

Total Length: 100.00 ft Total Volume: 1.403 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

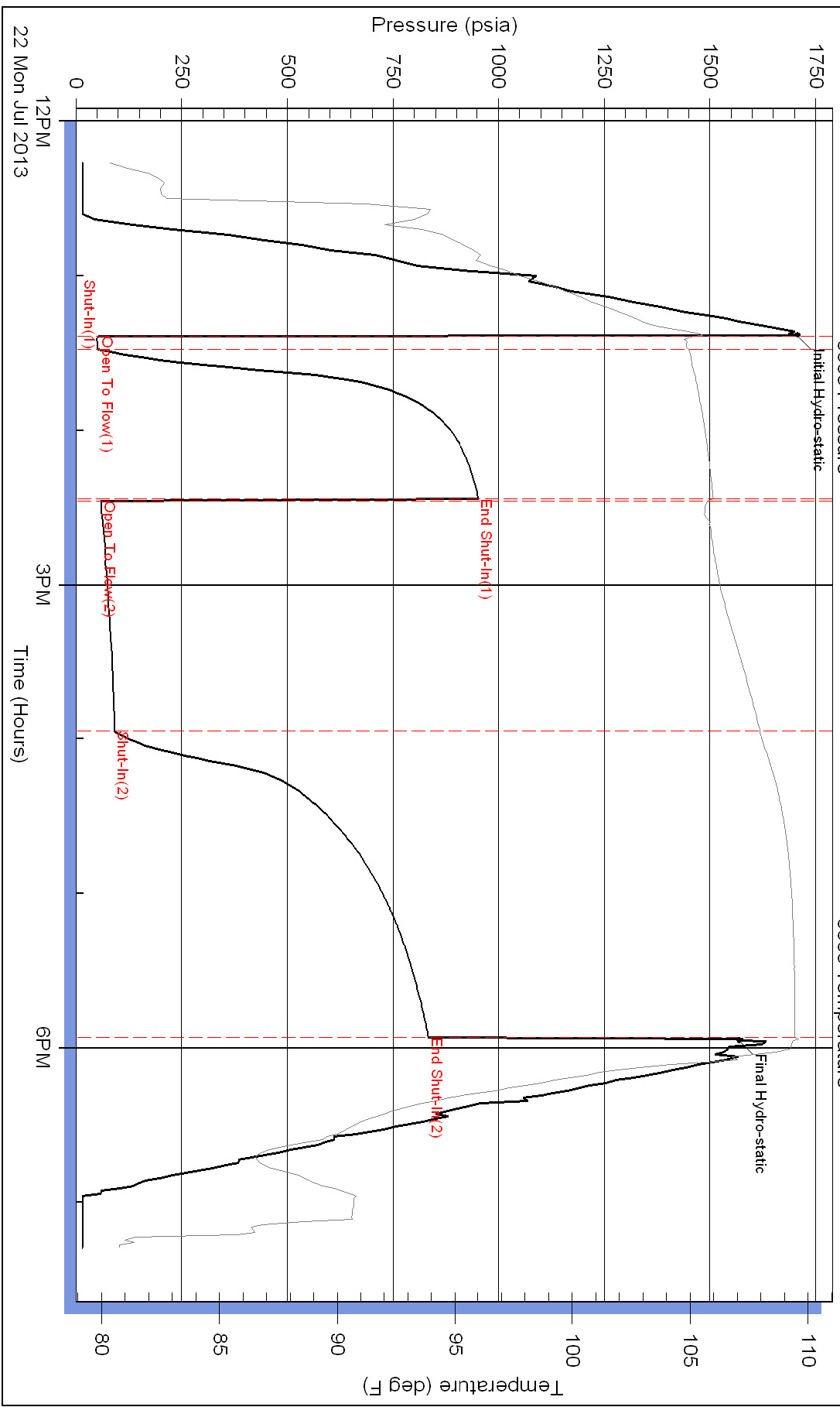
Serial #:

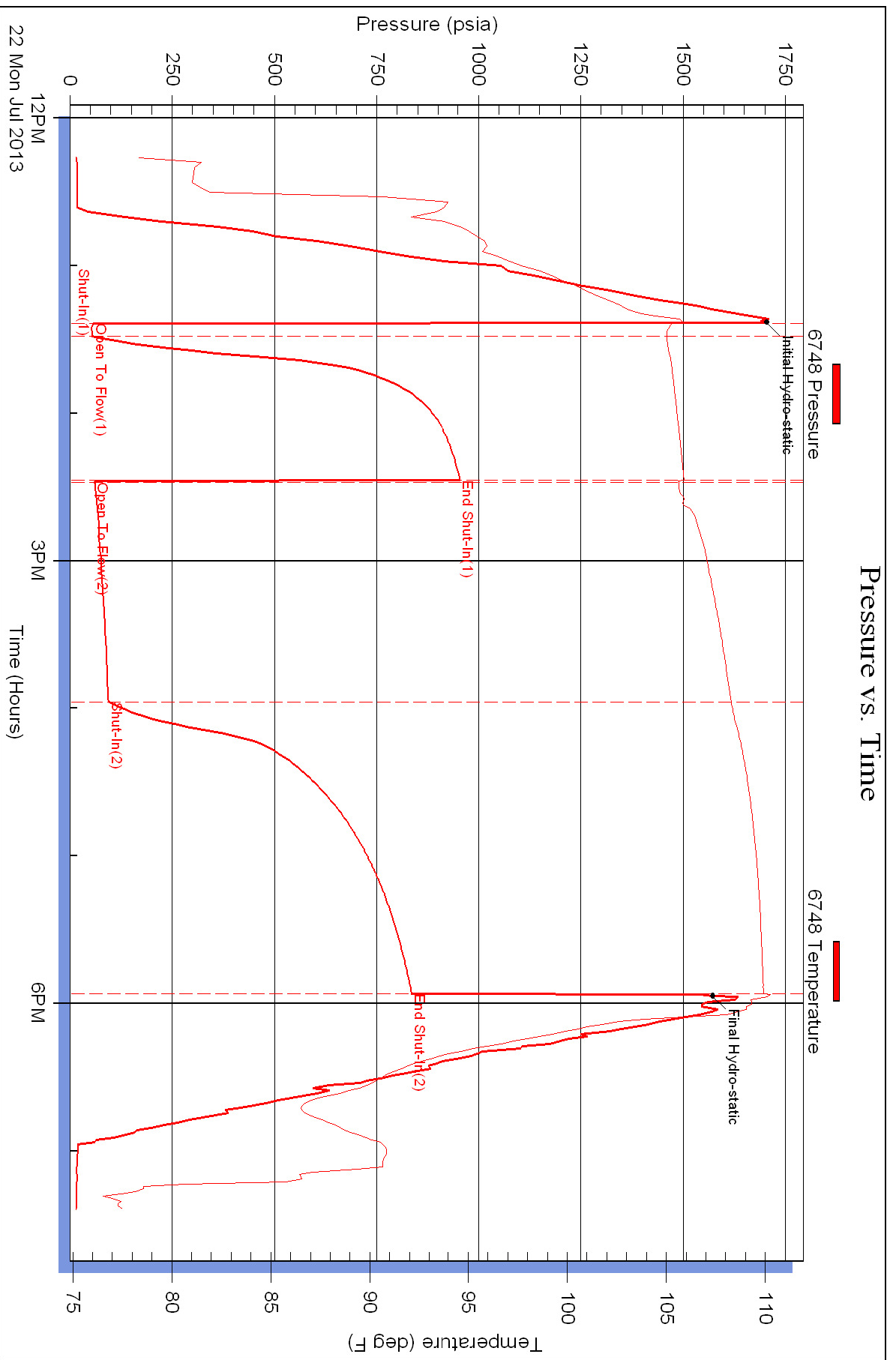
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

9431 East Central Suite100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

McDonald #1-19

19-20s-13w Barton

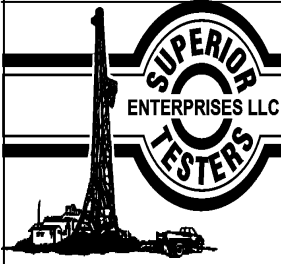
Start Date: 2013.07.23 @ 00:00:00

End Date: 2013.07.23 @ 00:00:00

Job Ticket #: 17750 DST #: 4

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

Printed: 2013.07.23 @ 09:51:36



DRILL STEM TEST REPORT

F.G. Holl Company L.L.C.
 9431 East Central Suite100
 Wichita, Kansas 67206-2563
 ATTN: Ryan Greenbaum

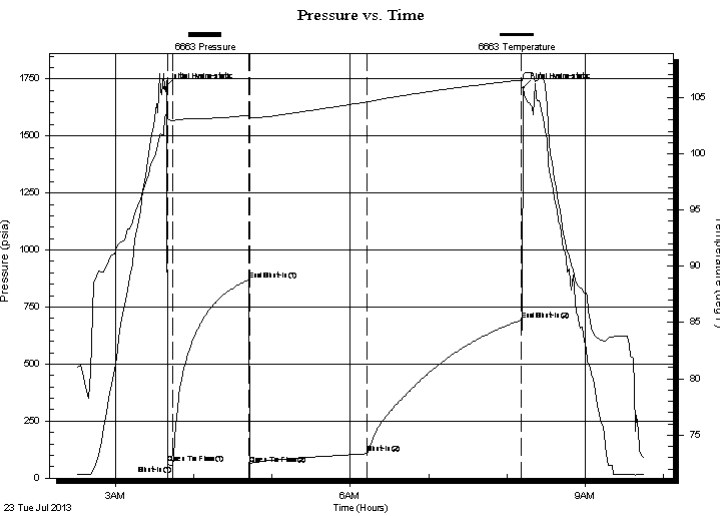
19-20s-13w Barton
McDonald #1-19
 Job Ticket: 17750 **DST#: 4**
 Test Start: 2013.07.23 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3402.00 ft (KB) To 3430.00 ft (KB) (TVD)**
 Total Depth: 3430.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gend Budig
 Unit No: 3335
 Reference Elevations: 1888.00 ft (KB)
 1880.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6663 Inside
 Press@RunDepth: 693.50 psia @ 3426.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.23 End Date: 2013.07.23 Last Calib.: 2013.07.23
 Start Time: 02:30:00 End Time: 09:45:30 Time On Btm: 2013.07.23 @ 03:37:30
 Time Off Btm: 2013.07.23 @ 08:12:30

TEST COMMENT: 1st Opening 5 Minutes- Good blow built to the bottom of a 5 gallon bucket in 3 minutes
 1st Shut-In 60 Minutes- No blow back
 2nd Opening 90 Minutes-Good blow built to the bottom of a 5 gallon bucket in 3 minutes
 2nd Shut-In 120 Minutes-No blow back



PRESSURE SUMMARY

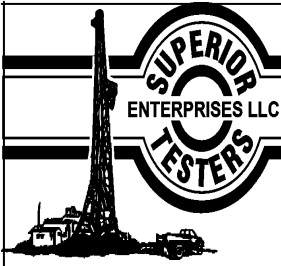
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1709.87	103.30	Initial Hydro-static
3	62.95	103.15	Open To Flow (1)
6	57.06	102.96	Shut-In(1)
65	869.42	103.43	End Shut-In(1)
66	62.67	103.21	Open To Flow (2)
156	107.02	104.61	Shut-In(2)
274	693.50	106.55	End Shut-In(2)
275	1711.48	106.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2250 feet of gas in the pipe	0.00
30.00	oil and gas cut mud	0.42
0.00	3%Gas 45%Oil 40%Mud 12%Water	0.00
90.00	very slightly oil cut water	1.26
0.00	1%Oil 10%Mud 89%Water chlorides 5600.00	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.
 9431 East Central Suite100
 Wichita, Kansas 67206-2563
 ATTN: Ryan Greenbaum

19-20s-13w Barton
McDonald #1-19
 Job Ticket: 17750 **DST#: 4**
 Test Start: 2013.07.23 @ 00:00:00

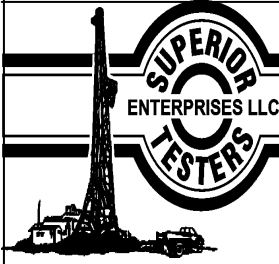
Tool Information

Drill Pipe:	Length: 3409.00 ft	Diameter: 3.80 inches	Volume: 47.82 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:	61000.00 lb
			<u>Total Volume: 47.82 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	49000.00 lb
Depth to Top Packer:	3402.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	28.00 ft				
Tool Length:	48.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3387.00	
Hydraulic Tool	5.00			3392.00	
Packer	5.00			3397.00	20.00 Bottom Of Top Packer
Packer	5.00			3402.00	
Anchor	23.00			3425.00	
Recorder	1.00	6663	Inside	3426.00	
Recorder	1.00	6748	Outside	3427.00	
Bullnose	3.00			3430.00	28.00 Bottom Packers & Anchor

Total Tool Length: 48.00



DRILL STEM TEST REPORT

FLUID SUMMARY

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

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17750

DST#: 4

ATTN: Ryan Greenbaum

Test Start: 2013.07.23 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 8.80 in³
Resistivity: ohm.m
Salinity: 6800.00 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	2250 feet of gas in the pipe	0.000
30.00	oil and gas cut mud	0.421
0.00	3%Gas 45%Oil 40%Mud 12%Water	0.000
90.00	very slightly oil cut w ater	1.262
0.00	1%Oil 10%Mud 89%Water chlorides 56000	0.000

Total Length: 120.00 ft Total Volume: 1.683 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

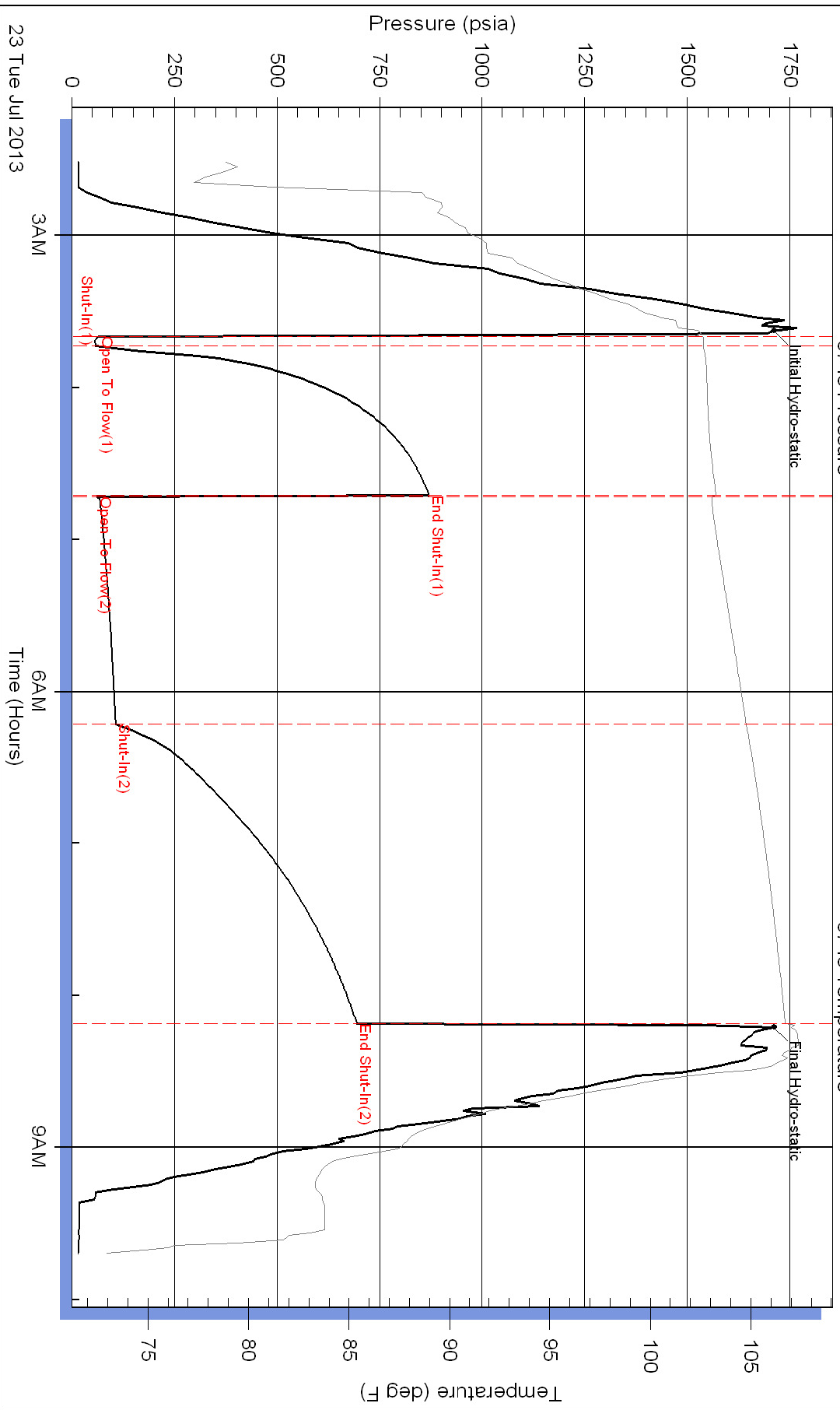
Serial #:

Laboratory Name:

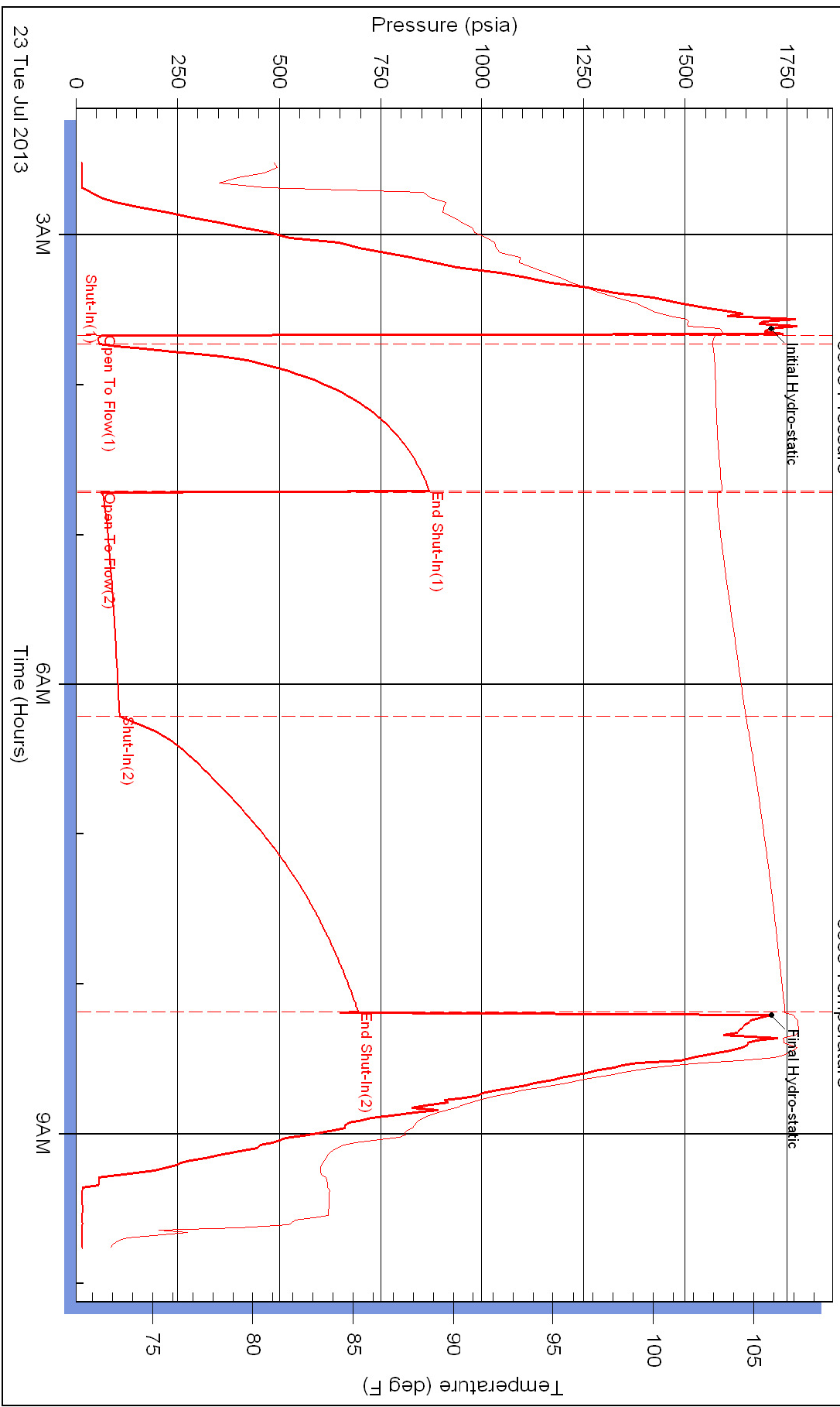
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

McDonald #1-19

19-20s-13w Barton

Start Date: 2013.07.23 @ 00:00:00

End Date: 2013.07.23 @ 00:00:00

Job Ticket #: 17101 DST #: 5

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

Printed: 2013.07.23 @ 22:53:36

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

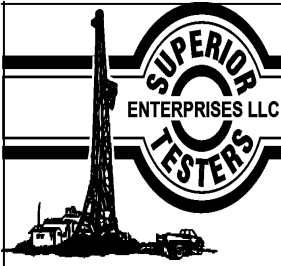
19-20s-13w Barton

McDonald #1-19

DST # 5

Kansas City "K&L"

2013.07.23



DRILL STEM TEST REPORT

F.G. Holl Company L.L.C.
 9431 East Central Suite100
 Wichita, Kansas 67206-2563
 ATTN: Ryan Greenbaum

19-20s-13w Barton
McDonald #1-19
 Job Ticket: 17101 **DST#: 5**
 Test Start: 2013.07.23 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "K&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: 3335
 Interval: **3430.00 ft (KB) To 3470.00 ft (KB) (TVD)**
 Reference Elevations: 1888.00 ft (KB)
 Total Depth: 3470.00 ft (KB) (TVD) 1880.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

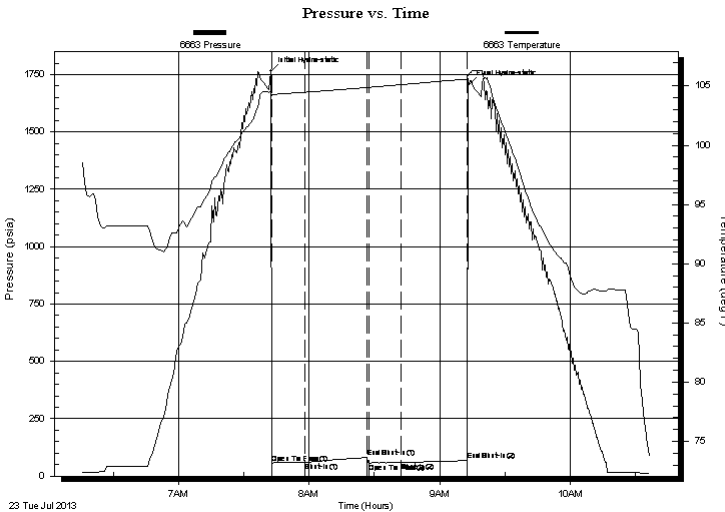
Serial #: 6663

Inside

Press@RunDepth: 67.78 psia @ 3466.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.23 End Date: 2013.07.23 Last Calib.: 2013.07.23
 Start Time: 06:15:00 End Time: 10:36:30 Time On Btm: 2013.07.23 @ 07:42:30
 Time Off Btm: 2013.07.23 @ 09:13:30

TEST COMMENT: 1st Opening 15 Minutes weak surface blow for 3 minutes and died
 1st Shut-In 30 Minutes No blow back
 2nd Opening 15 Minutes No blow
 2nd Shut-In 30 Minutes-No blow back

PRESSURE SUMMARY



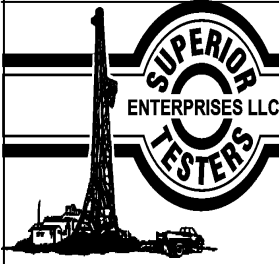
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1764.72	104.52	Initial Hydro-static
1	57.51	104.22	Open To Flow (1)
16	58.60	104.47	Shut-In(1)
44	81.02	104.88	End Shut-In(1)
45	56.43	104.89	Open To Flow (2)
60	58.84	105.11	Shut-In(2)
90	67.78	105.59	End Shut-In(2)
91	1707.97	106.02	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
20.00	drilling mud	0.28

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



DRILL STEM TEST REPORT

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

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17101

DST#: 5

ATTN: Ryan Greenbaum

Test Start: 2013.07.23 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "K&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: 3335

Interval: 3430.00 ft (KB) To 3470.00 ft (KB) (TVD)

Reference Elevations: 1888.00 ft (KB)

Total Depth: 3470.00 ft (KB) (TVD)

1880.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6748 Outside

Press@RunDepth: 69.20 psia @ 3467.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.07.23

End Date: 2013.07.23

Last Calib.: 2013.07.23

Start Time: 06:15:00

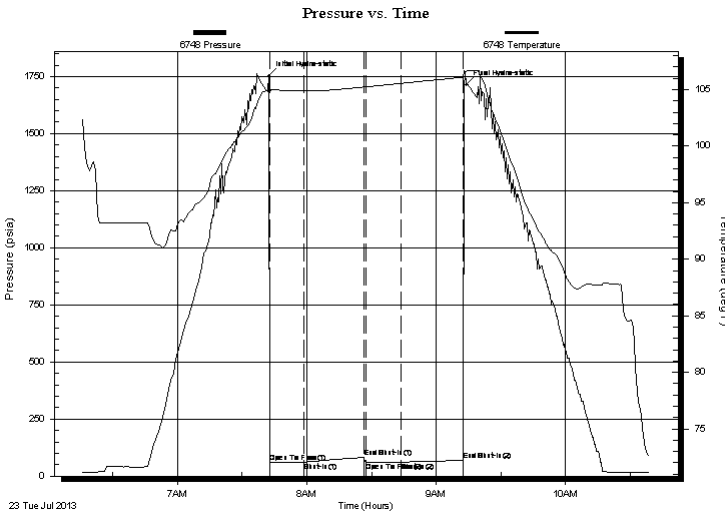
End Time: 10:39:00

Time On Btm: 2013.07.23 @ 07:42:30

Time Off Btm: 2013.07.23 @ 09:14:00

TEST COMMENT: 1st Opening 15 Minutes weak surface blow for 3 minutes and died
 1st Shut-In 30 Minutes No blow back
 2nd Opening 15 Minutes No blow
 2nd Shut-In 30 Minutes-No blow back

PRESSURE SUMMARY



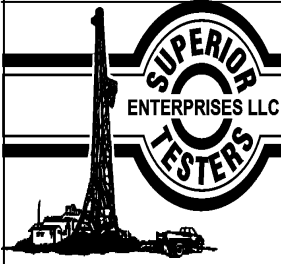
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1752.79	104.88	Initial Hydro-static
1	60.68	104.76	Open To Flow (1)
16	61.41	104.86	Shut-In(1)
44	81.98	105.23	End Shut-In(1)
45	59.57	105.24	Open To Flow (2)
61	61.11	105.55	Shut-In(2)
90	69.20	106.09	End Shut-In(2)
92	1712.84	106.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	drilling mud	0.28

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17101

DST#: 5

ATTN: Ryan Greenbaum

Test Start: 2013.07.23 @ 00:00:00

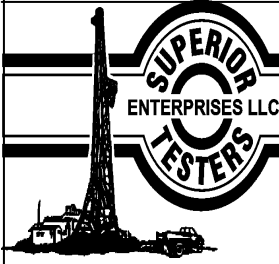
Tool Information

Drill Pipe:	Length: 3431.00 ft	Diameter: 3.80 inches	Volume: 48.13 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: 48.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3430.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	68.00 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			3407.00	
Hydraulic Tool	5.00			3412.00	
Safety Joint	2.00			3414.00	
Jars	6.00			3420.00	
Packer	5.00			3425.00	28.00 Bottom Of Top Packer
Packer	5.00			3430.00	
Anchor	35.00			3465.00	
Recorder	1.00	6663	Inside	3466.00	
Recorder	1.00	6748	Outside	3467.00	
Bullnose	3.00			3470.00	40.00 Bottom Packers & Anchor
Total Tool Length:	68.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

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

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17101

DST#: 5

ATTN: Ryan Greenbaum

Test Start: 2013.07.23 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 9.40 in³

Resistivity: ohm.m

Salinity: 6200.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	drilling mud	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

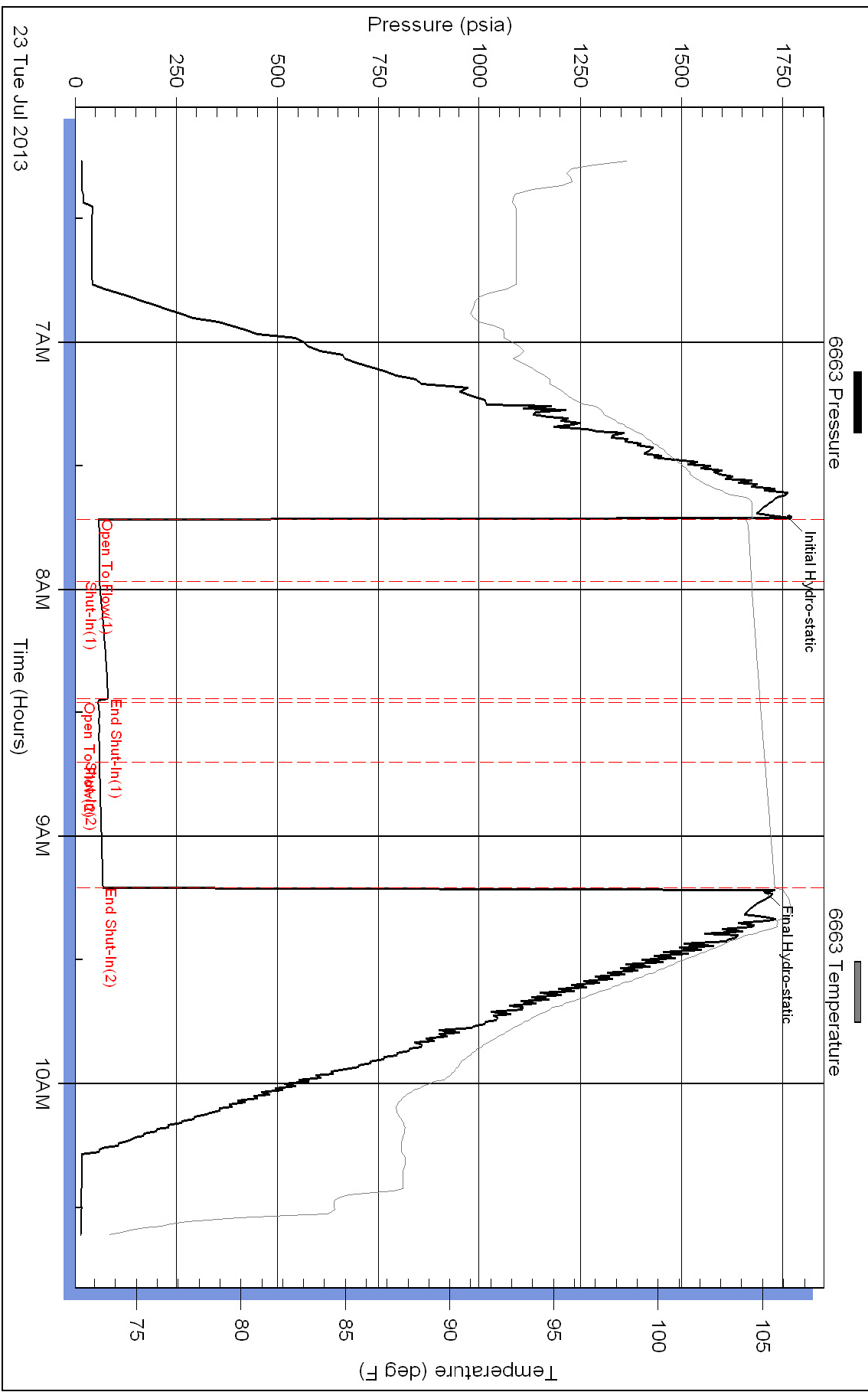
Serial #:

Laboratory Name:

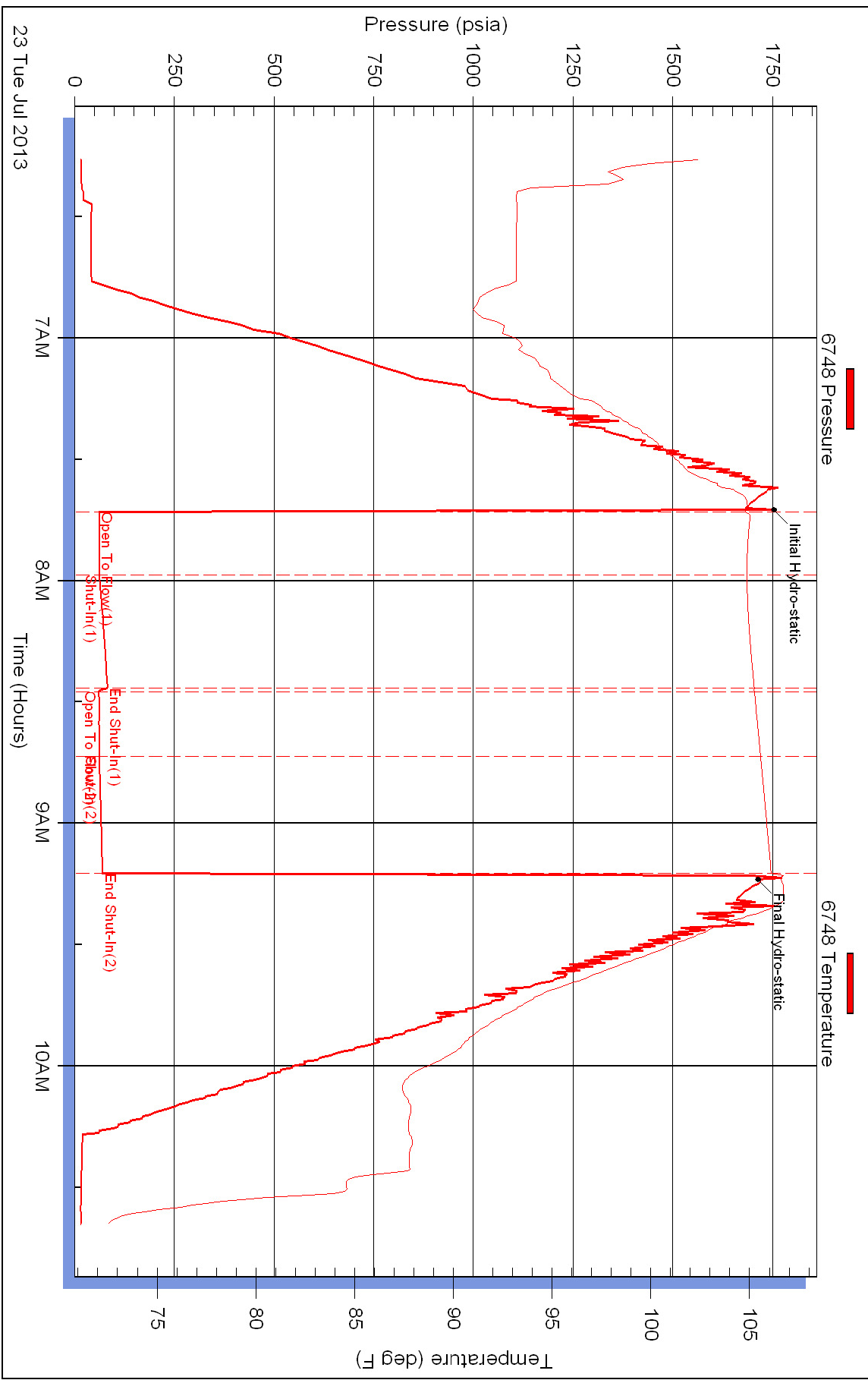
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

McDonald #1-19

19-20s-13w Barton

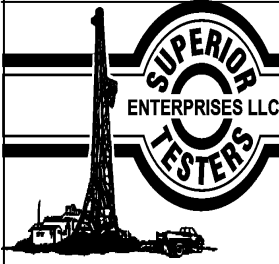
Start Date: 2013.07.24 @ 00:00:00

End Date: 2013.07.24 @ 00:00:00

Job Ticket #: 17102 DST #: 6

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

Printed: 2013.07.24 @ 17:28:40



DRILL STEM TEST REPORT

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

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17102

DST#: 6

ATTN: Ryan Greenbaum

Test Start: 2013.07.24 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

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: 3335

Interval: 3450.00 ft (KB) To 3520.00 ft (KB) (TVD)

Reference Elevations: 1888.00 ft (KB)

Total Depth: 3520.00 ft (KB) (TVD)

1880.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6663 Inside

Press@RunDepth: 767.87 psia @ 3515.68 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.07.24

End Date: 2013.07.24

Last Calib.: 2013.07.24

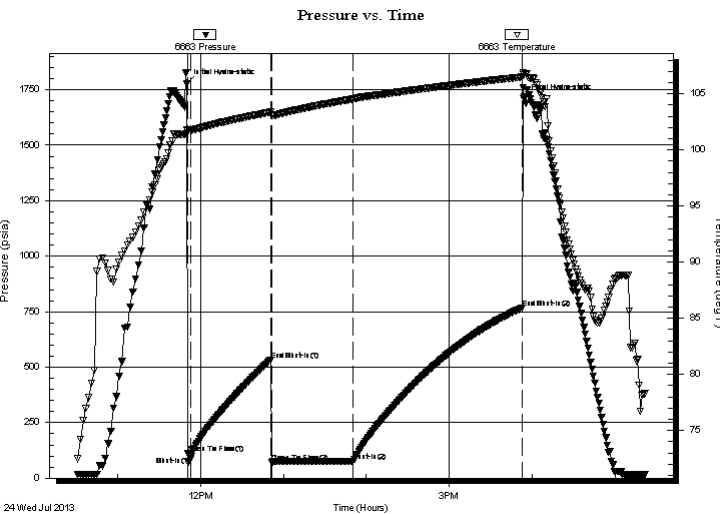
Start Time: 10:30:00

End Time: 17:21:30

Time On Btm: 2013.07.24 @ 11:50:00

Time Off Btm: 2013.07.24 @ 15:54:00

TEST COMMENT: 1st Opening 2 minutes good blow built to the bottom of a 5 gallon bucket in 1 1/2 minutes
1st Shut-in 60 Minutes No blow back
2nd Opening 60 Minutes-Strong blow built to the bottom of a 5 gallon bucket in 15 seconds
2nd Shut-in 120 Minutes-No blow back



PRESSURE SUMMARY

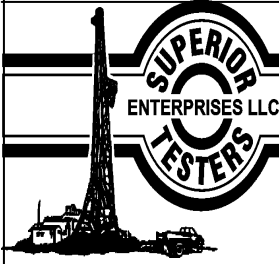
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1775.94	101.78	Initial Hydro-static
1	111.52	101.68	Open To Flow (1)
3	97.88	101.76	Shut-In(1)
61	532.68	103.36	End Shut-In(1)
62	72.33	103.07	Open To Flow (2)
121	76.98	104.53	Shut-In(2)
243	767.87	106.49	End Shut-In(2)
244	1709.57	106.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2050.00	gAS IN THE PIPE	28.76
35.00	dRILLING mUD	0.49

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company L.L.C.
 9431 East Central Suite100
 Wichita, Kansas 67206-2563
 ATTN: Ryan Greenbaum

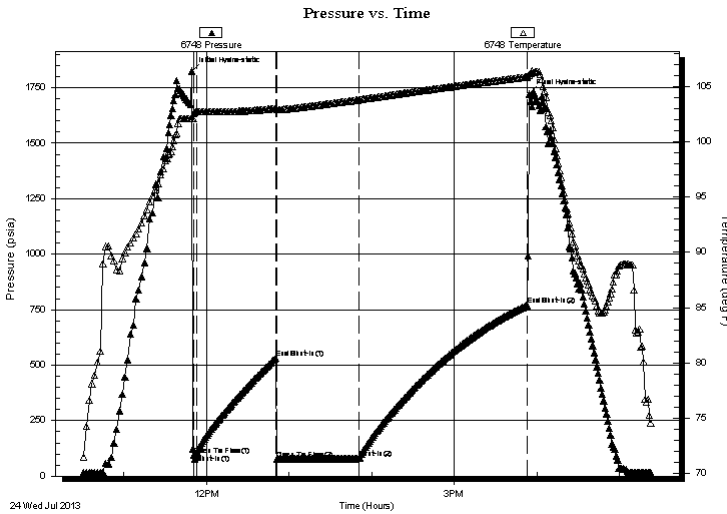
19-20s-13w Barton
McDonald #1-19
 Job Ticket: 17102 **DST#:6**
 Test Start: 2013.07.24 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3450.00 ft (KB) To 3520.00 ft (KB) (TVD)**
 Total Depth: 3520.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 3335
 Reference Elevations: 1888.00 ft (KB)
 1880.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6748 Inside
 Press@RunDepth: 770.28 psia @ 3516.68 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.24 End Date: 2013.07.24 Last Calib.: 2013.07.24
 Start Time: 10:30:00 End Time: 17:22:30 Time On Btm: 2013.07.24 @ 11:49:30
 Time Off Btm: 2013.07.24 @ 15:54:30

TEST COMMENT: 1st Opening 2 minutes good blow built to the bottom of a 5 gallon bucket in 1 1/2 minutes
 1st Shut-in 60 Minutes No blow back
 2nd Opening 60 Minutes-Strong blow built to the bottom of a 5 gallon bucket in 15 seconds
 2nd Shut-in 120 Minutes-No blow back



PRESSURE SUMMARY

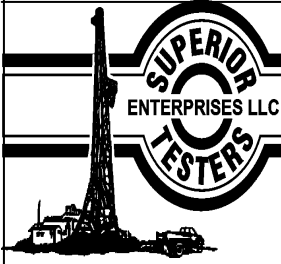
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1824.50	102.11	Initial Hydro-static
2	93.89	102.53	Open To Flow (1)
4	96.94	102.70	Shut-In(1)
62	533.18	103.00	End Shut-In(1)
62	74.30	102.89	Open To Flow (2)
122	79.56	103.79	Shut-In(2)
244	770.28	105.85	End Shut-In(2)
245	1721.41	106.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2050.00	gAS IN THE PIPE	28.76
35.00	dRILLING mUD	0.49

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company L.L.C.
 9431 East Central Suite100
 Wichita, Kansas 67206-2563
 ATTN: Ryan Greenbaum

19-20s-13w Barton
McDonald #1-19
 Job Ticket: 17102 **DST#: 6**
 Test Start: 2013.07.24 @ 00:00:00

Tool Information

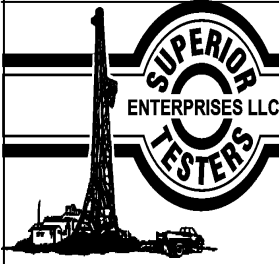
Drill Pipe:	Length: 3434.00 ft	Diameter: 3.80 inches	Volume: 48.17 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 48.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3450.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.68 ft			
Tool Length:	97.68 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			3427.00	
Hydraulic Tool	5.00			3432.00	
Safety Joint	2.00			3434.00	
Jars	6.00			3440.00	
Packer	5.00			3445.00	28.00 Bottom Of Top Packer
Packer	5.00			3450.00	
Anchor	6.00			3456.00	
Change Over Sub	0.75			3456.75	
Drill Pipe	31.18			3487.93	
Change Over Sub	0.75			3488.68	
Anchor	26.00			3514.68	
Recorder	1.00	6663	Inside	3515.68	
Recorder	1.00	6748	Inside	3516.68	
Bullnose	3.00			3519.68	69.68 Bottom Packers & Anchor

Total Tool Length: 97.68



DRILL STEM TEST REPORT

FLUID SUMMARY

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

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17102

DST#: 6

ATTN: Ryan Greenbaum

Test Start: 2013.07.24 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 68.00 sec/qt
Water Loss: 9.20 in³
Resistivity: ohm.m
Salinity: 8200.00 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
2050.00	gAS IN THE PIPE	28.756
35.00	dRILLING mUD	0.491

Total Length: 2085.00 ft Total Volume: 29.247 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

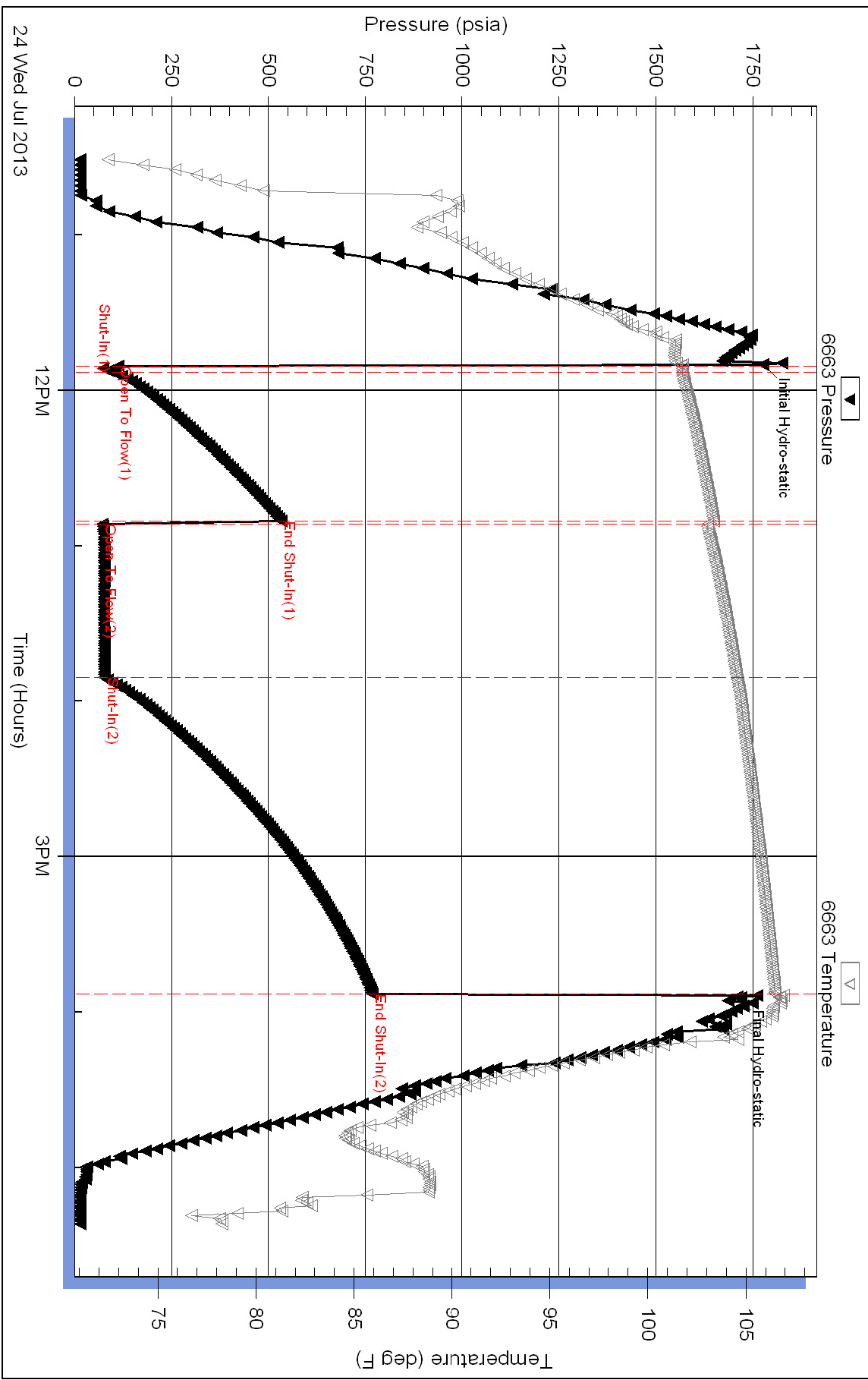
Serial #:

Laboratory Name:

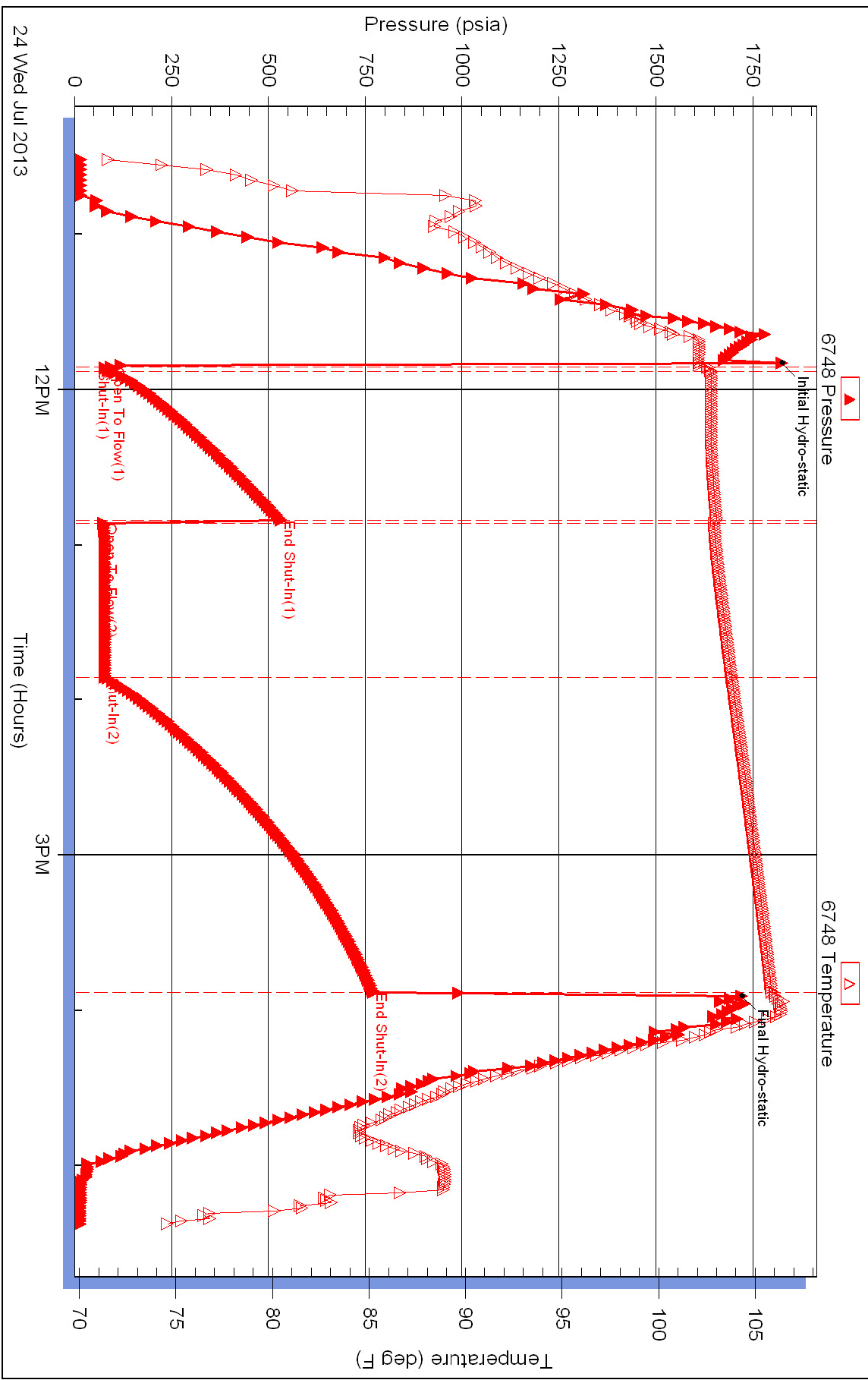
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

McDonald #1-19

19-20s-13w Barton

Start Date: 2013.07.25 @ 00:00:00

End Date: 2013.07.25 @ 00:00:00

Job Ticket #: 17103 DST #: 7

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

Printed: 2013.07.25 @ 09:49:30



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17103

DST#:7

ATTN: Ryan Greenbaum

Test Start: 2013.07.25 @ 00:00:00

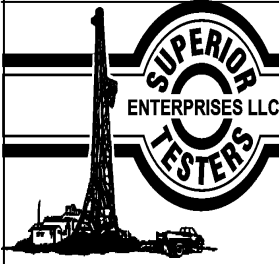
Tool Information

Drill Pipe:	Length: 3503.00 ft	Diameter: 3.80 inches	Volume: 49.14 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: 50000.00 lb
			<u>Total Volume: 49.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3520.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

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

Shut-In Tool	5.00			3497.00	
Hydraulic Tool	5.00			3502.00	
Safety Joint	2.00			3504.00	
Jars	6.00			3510.00	
Packer	5.00			3515.00	28.00 Bottom Of Top Packer
Packer	5.00			3520.00	
Anchor	10.00			3530.00	
Recorder	1.00	6663	Inside	3531.00	
Recorder	1.00	6748	Outside	3532.00	
Bullnose	3.00			3535.00	15.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

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

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17103

DST#:7

ATTN: Ryan Greenbaum

Test Start: 2013.07.25 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 68.00 sec/qt
Water Loss: 9.20 in³
Resistivity: ohm.m
Salinity: 8200.00 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
430.00	Drilling mud	6.032
0.00	Miss Run Packer failure	0.000

Total Length: 430.00 ft Total Volume: 6.032 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

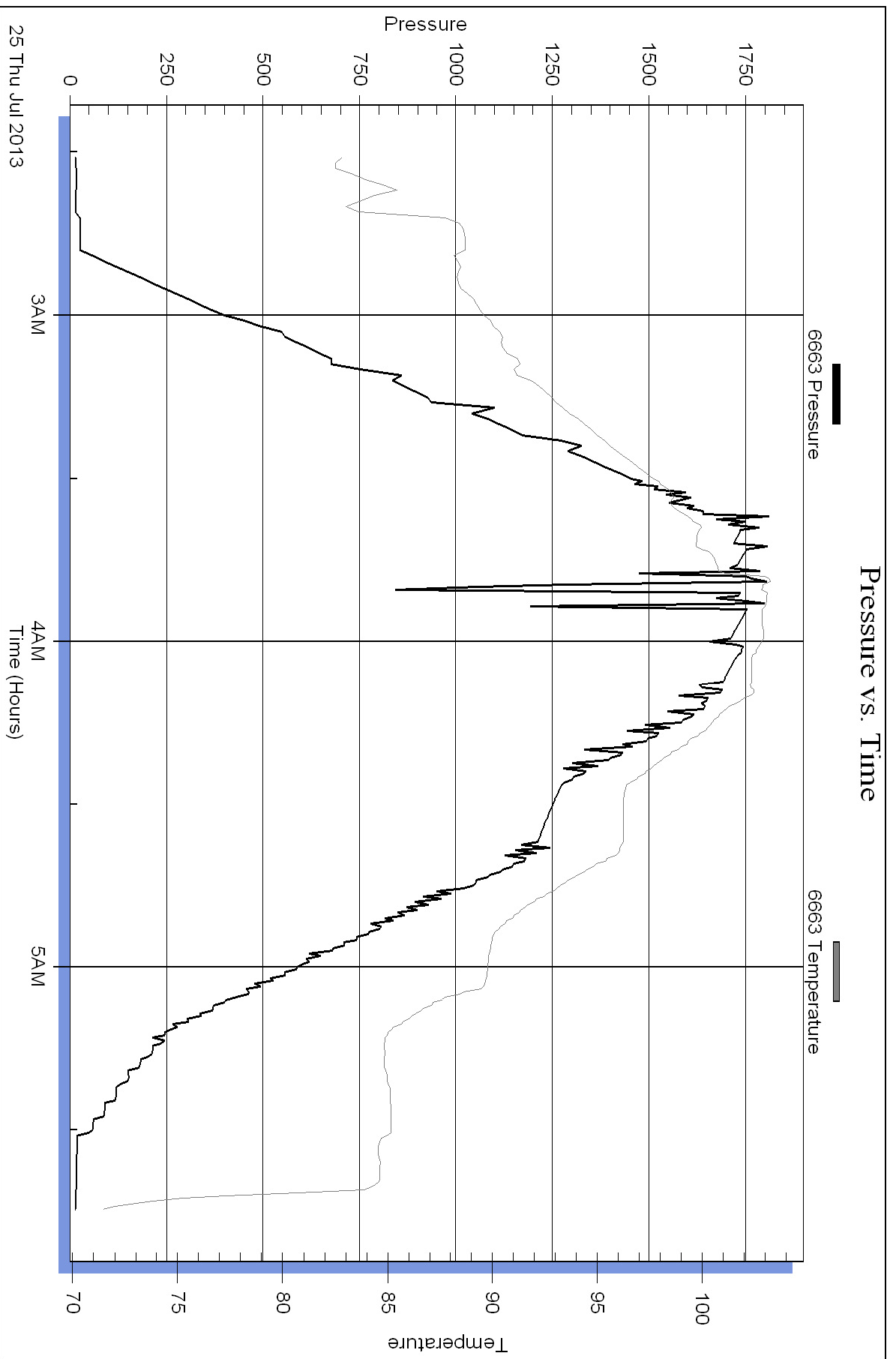
Serial #: 6663

Inside

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

McDonald #1-19

DST Test Number: 7



Superior Testers Enterprises LLC

Ref. No: 17103

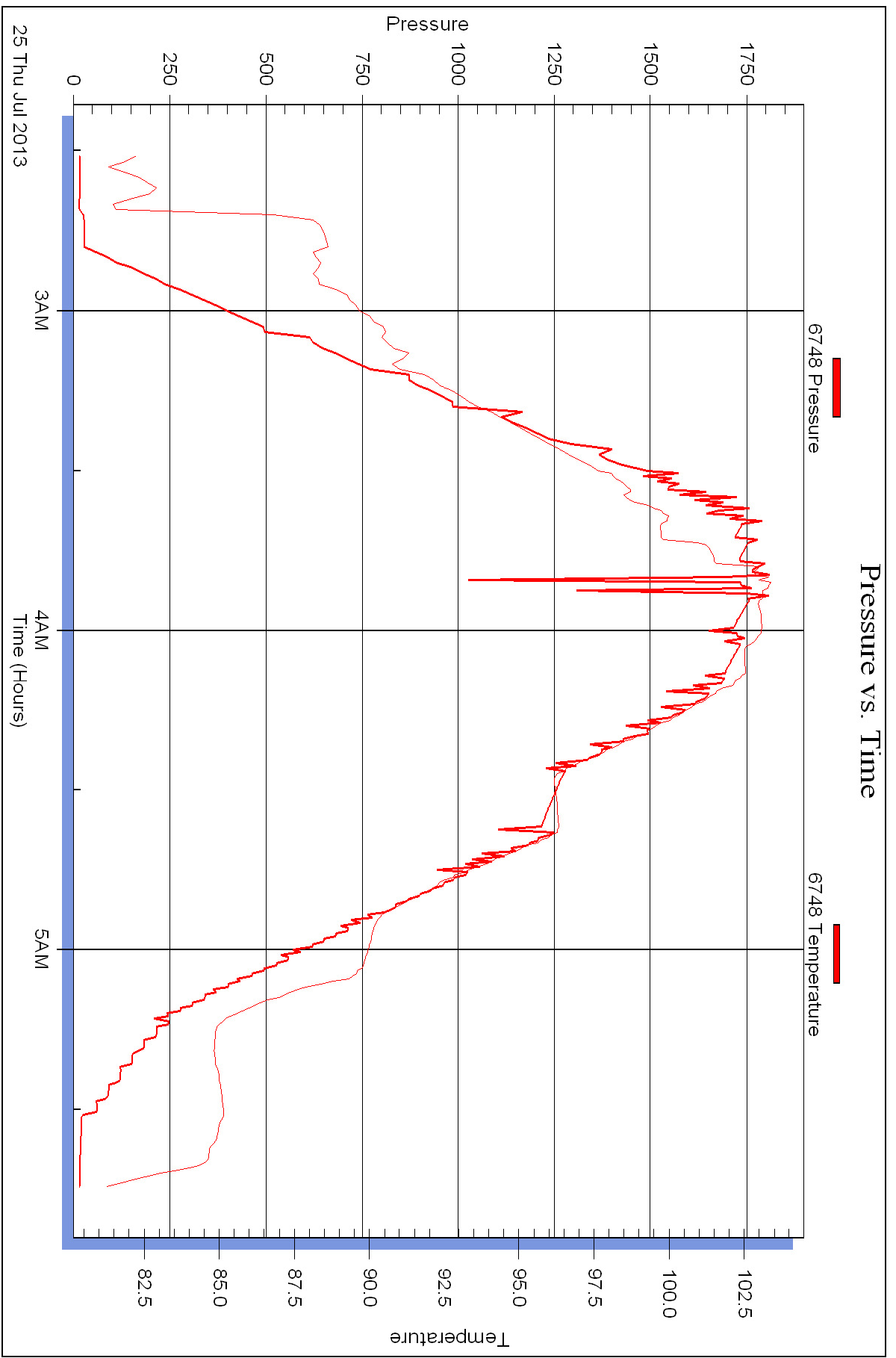
Printed: 2013.07.25 @ 09:49:30

Serial #: 6748

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

McDonald #1-19

DST Test Number: 7



Superior Testers Enterprises LLC

Ref. No: 17103

Printed: 2013.07.25 @ 09:49:31



DRILL STEM TEST REPORT

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

9431 East Central Suite100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

McDonald #1-19

19-20s-13w Barton

Start Date: 2013.07.25 @ 00:00:00

End Date: 2013.07.25 @ 00:00:00

Job Ticket #: 17104 DST #: 8

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

Printed: 2013.07.25 @ 09:50:11

F.G. Holl Company L.L.C. 19-20s-13w Barton McDonald #1-19 DST # 8 Arbuckle 2013.07.25



DRILL STEM TEST REPORT

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

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17104

DST#: 8

ATTN: Ryan Greenbaum

Test Start: 2013.07.25 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

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: 3335

Interval: 3445.00 ft (KB) To 3535.00 ft (KB) (TVD)

Reference Elevations: 1888.00 ft (KB)

Total Depth: 3535.00 ft (KB) (TVD)

1880.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6748 Inside

Press@RunDepth: 292.58 psia @ 3531.68 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.07.25 End Date: 2013.07.25

Last Calib.: 2013.07.25

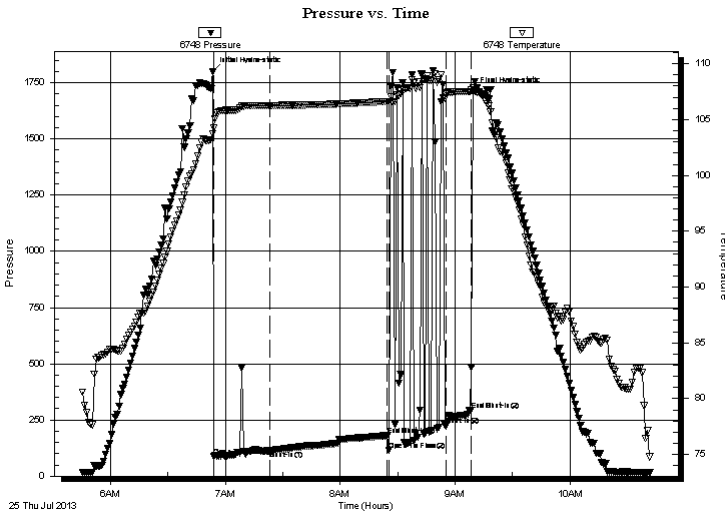
Start Time: 02:30:00 End Time: 10:41:30

Time On Btm: 2013.07.25 @ 06:53:30

Time Off Btm: 2013.07.25 @ 09:09:30

TEST COMMENT: 1st Opening 30 Minutes Weak building surging blow died
1st Shut-In 60 Minutes No blow back
2nd Opening 30 Minutes-w eak building surging blow died
2nd Shut-in 15 Minutes No blow back

PRESSURE SUMMARY



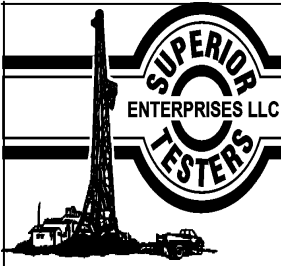
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1797.82	103.75	Initial Hydro-static
1	88.96	104.23	Open To Flow (1)
30	112.88	106.27	Shut-In(1)
91	180.64	106.63	End Shut-In(1)
92	113.73	106.62	Open To Flow (2)
122	228.52	107.32	Shut-In(2)
135	292.58	107.50	End Shut-In(2)
136	1709.60	107.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	very thick heavy mud	4.21
0.00	Flushed tool 12+ Times	0.00
0.00		0.00

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company L.L.C.
 9431 East Central Suite100
 Wichita, Kansas 67206-2563
 ATTN: Ryan Greenbaum

19-20s-13w Barton
McDonald #1-19
 Job Ticket: 17104 **DST#: 8**
 Test Start: 2013.07.25 @ 00:00:00

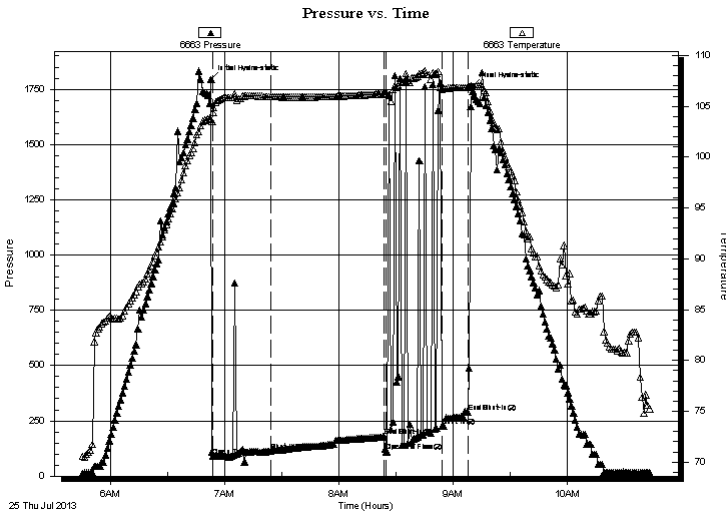
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:00:00 Tester: Gene Budig
 Time Test Ended: 00:00:00 Unit No: 3335
 Interval: **3445.00 ft (KB) To 3535.00 ft (KB) (TVD)** Reference Elevations: 1888.00 ft (KB)
 Total Depth: 3535.00 ft (KB) (TVD) 1880.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6663 Inside
 Press@RunDepth: 289.62 psia @ 3530.68 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.25 End Date: 2013.07.25 Last Calib.: 2013.07.25
 Start Time: 02:30:00 End Time: 10:44:00 Time On Btm: 2013.07.25 @ 06:53:00
 Time Off Btm: 2013.07.25 @ 09:10:00

TEST COMMENT: 1st Opening 30 Minutes Weak building surging blow died
 1st Shut-In 60 Minutes No blow back
 2nd Opening 30 Minutes-w eak building surging blow died
 2nd Shut-in 15 Minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1794.12	103.72	Initial Hydro-static
1	89.87	104.36	Open To Flow (1)
32	112.19	105.96	Shut-In(1)
91	178.47	106.24	End Shut-In(1)
92	110.63	106.23	Open To Flow (2)
122	225.03	106.62	Shut-In(2)
135	289.62	106.87	End Shut-In(2)
137	1762.23	106.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	very thick heavy mud	4.21
0.00	Flushed tool 12+ Times	0.00
0.00		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.

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17104

DST#: 8

ATTN: Ryan Greenbaum

Test Start: 2013.07.25 @ 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: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 48.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3445.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	89.68 ft			
Tool Length:	117.68 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

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

Shut-In Tool	5.00			3422.00	
Hydraulic Tool	5.00			3427.00	
Safety Joint	2.00			3429.00	
Jars	6.00			3435.00	
Packer	5.00			3440.00	28.00 Bottom Of Top Packer
Packer	5.00			3445.00	
Change Over Sub	0.75			3445.75	
Drill Pipe	62.18			3507.93	
Change Over Sub	0.75			3508.68	
Anchor	21.00			3529.68	
Recorder	1.00	6663	Inside	3530.68	
Recorder	1.00	6748	Inside	3531.68	
Bullnose	3.00			3534.68	89.68 Bottom Packers & Anchor

Total Tool Length: 117.68



DRILL STEM TEST REPORT

FLUID SUMMARY

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

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17104

DST#: 8

ATTN: Ryan Greenbaum

Test Start: 2013.07.25 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 68.00 sec/qt
Water Loss: 9.20 in³
Resistivity: ohm.m
Salinity: 8200.00 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
300.00	very thick heavy mud	4.208
0.00	Flushed tool 12+ Times	0.000
0.00		0.000

Total Length: 300.00 ft Total Volume: 4.208 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

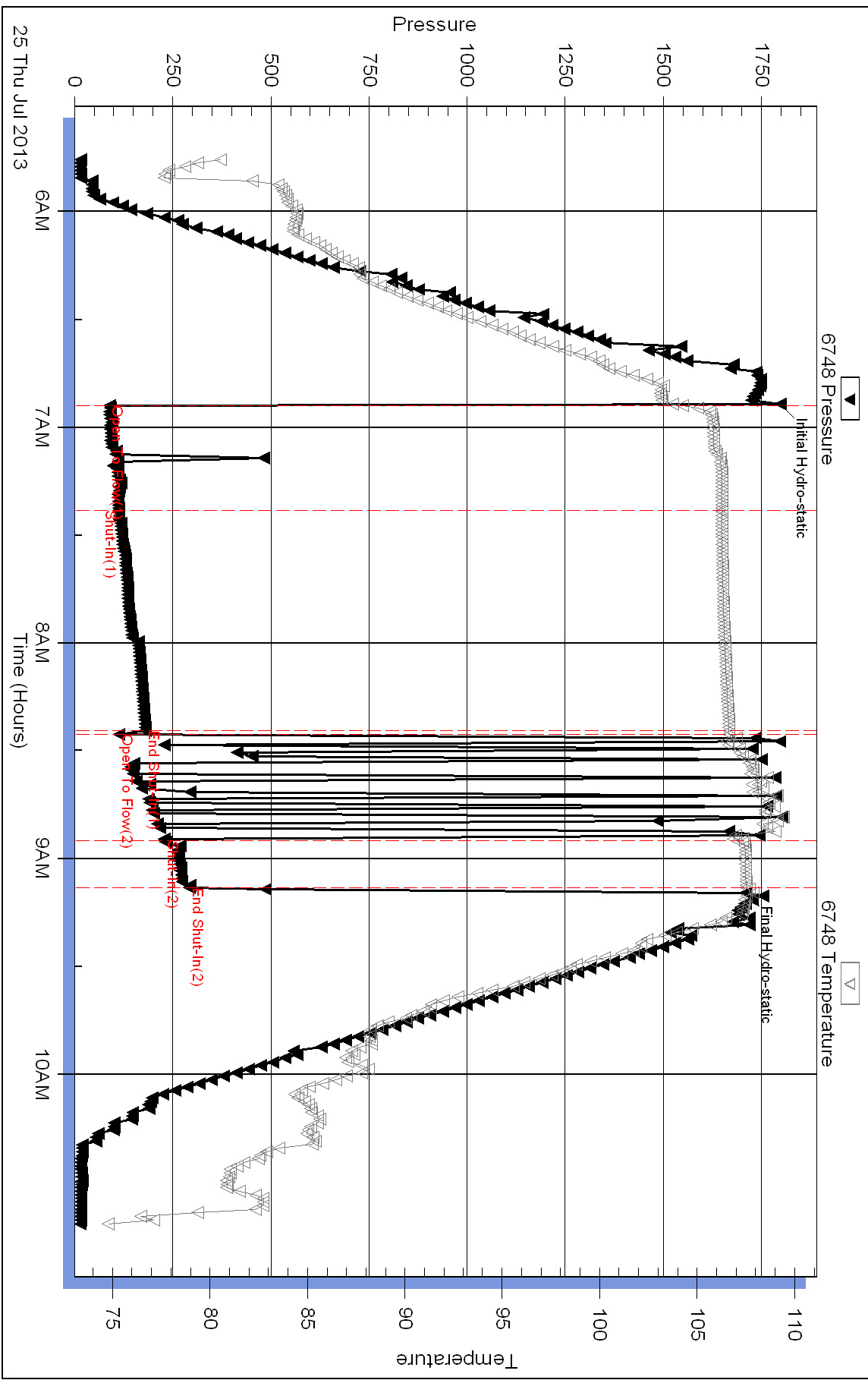
Serial #:

Laboratory Name:

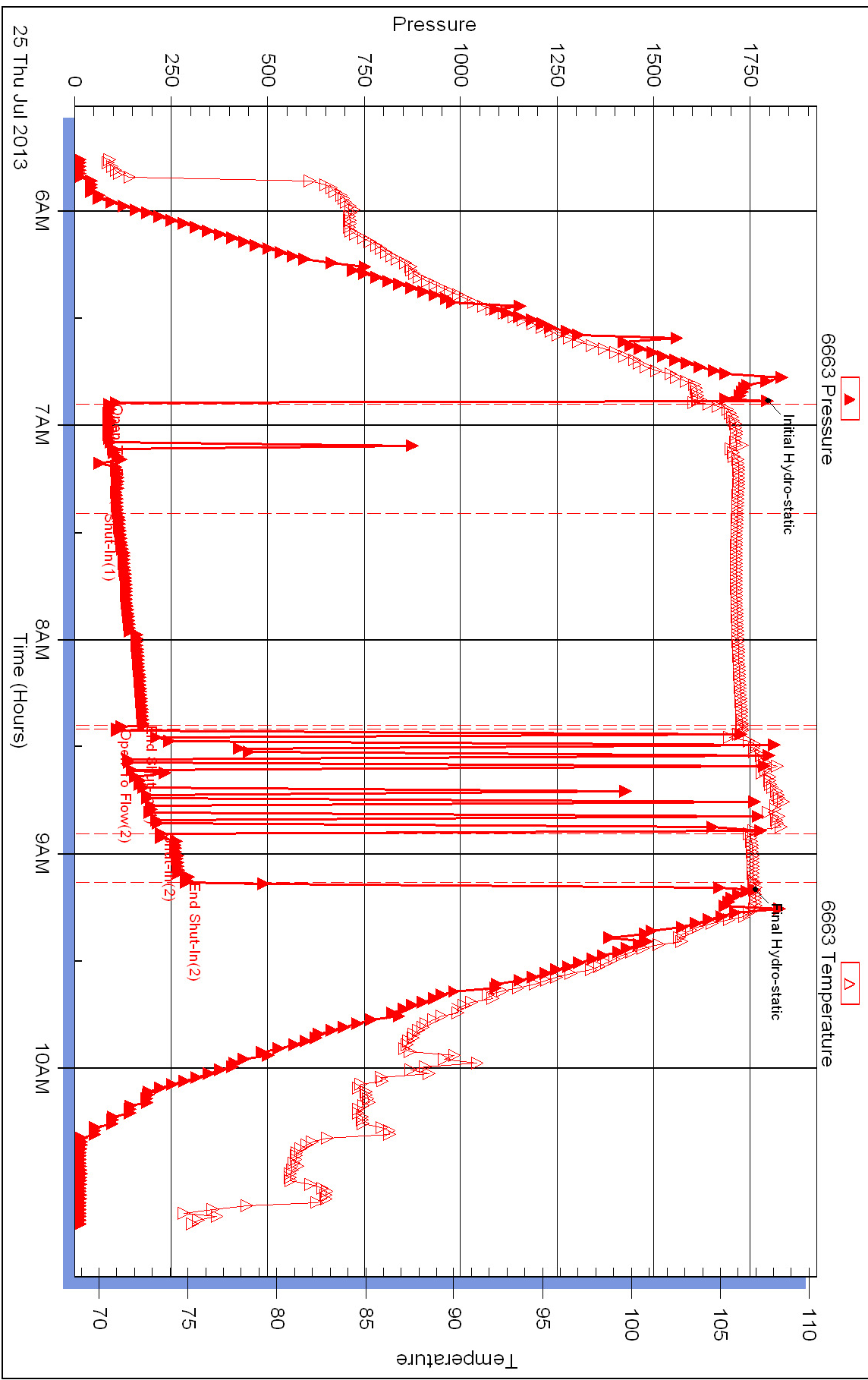
Laboratory Location:

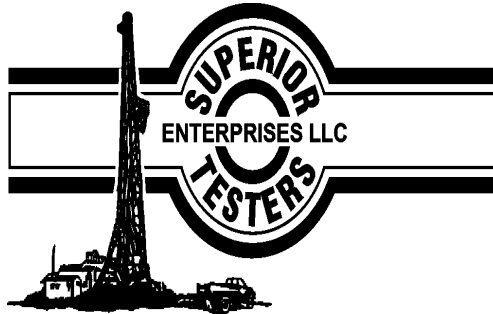
Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

McDonald #1-19

19-20s-13w Barton

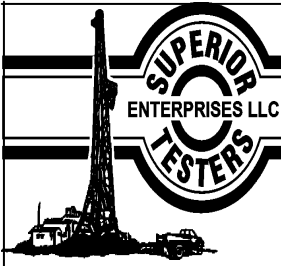
Start Date: 2013.07.25 @ 00:00:00

End Date: 2013.07.25 @ 00:00:00

Job Ticket #: 17105 DST #: 9

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

Printed: 2013.07.26 @ 04:28:35



DRILL STEM TEST REPORT

F.G. Holl Company L.L.C.
 9431 East Central Suite100
 Wichita, Kansas 67206-2563
 ATTN: Ryan Greenbaum

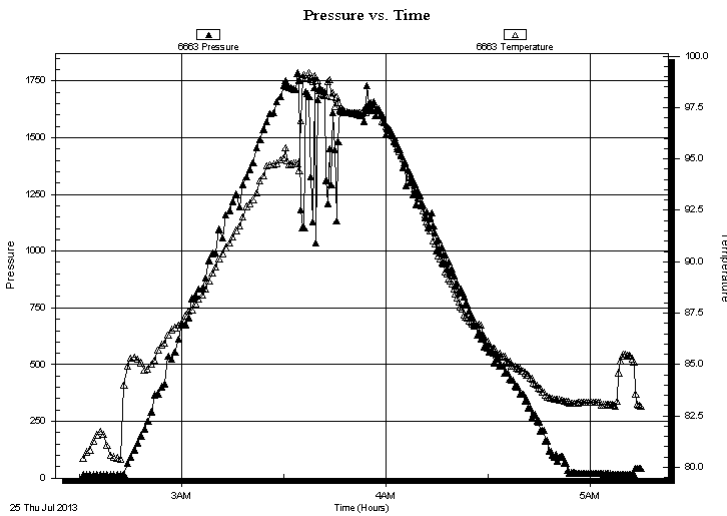
19-20s-13w Barton
McDonald #1-19
 Job Ticket: 17105 **DST#: 9**
 Test Start: 2013.07.25 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
Interval: 3508.00 ft (KB) To 3535.00 ft (KB) (TVD)
 Total Depth: 3535.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 3335
 Reference Elevations: 1888.00 ft (KB)
 1880.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6663 Inside
 Press@RunDepth: psia @ 3532.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.25 End Date: 2013.07.25 Last Calib.: 2013.07.26
 Start Time: 02:30:00 End Time: 11:26:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: Miss run packer failure



PRESSURE SUMMARY

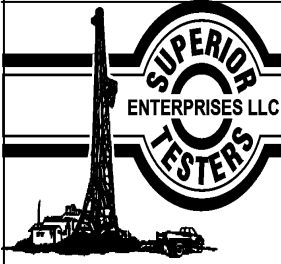
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17105

DST#:9

ATTN: Ryan Greenbaum

Test Start: 2013.07.25 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3498.00 ft	Diameter: 3.80 inches	Volume: 49.07 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: 55000.00 lb
			<u>Total Volume: 49.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3508.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	56.00 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			3485.00	
Hydraulic Tool	5.00			3490.00	
Safety Joint	2.00			3492.00	
Jars	6.00			3498.00	
Packer	5.00			3503.00	28.00 Bottom Of Top Packer
Packer	5.00			3508.00	
Anchor	23.00			3531.00	
Recorder	1.00	6663	Inside	3532.00	
Recorder	1.00	6748	Outside	3533.00	
Bullnose	3.00			3536.00	28.00 Bottom Packers & Anchor
Total Tool Length:	56.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

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

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17105

DST#:9

ATTN: Ryan Greenbaum

Test Start: 2013.07.25 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 68.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 8200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

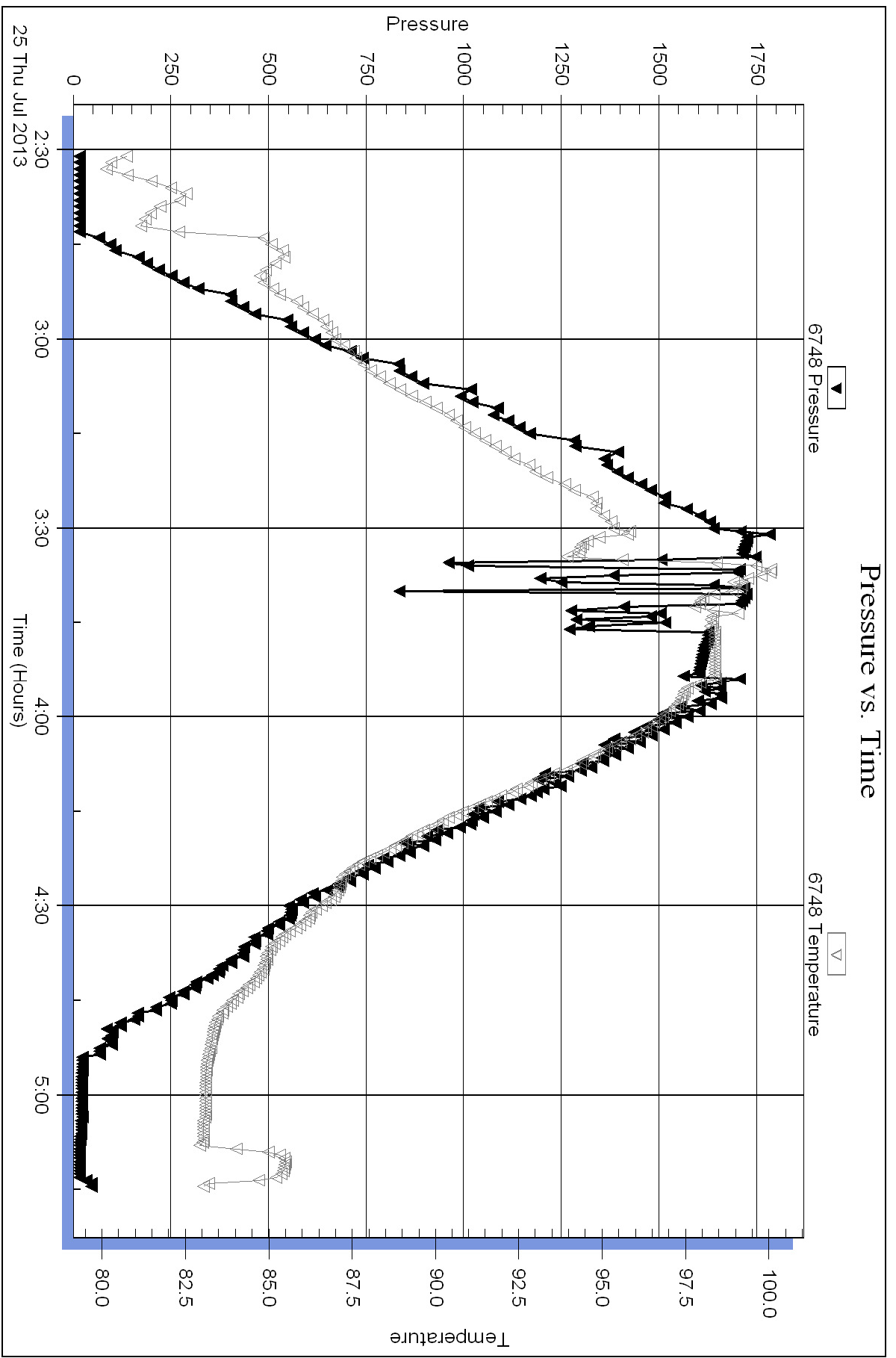
Length ft	Description	Volume bbl

Total Length: ft Total Volume: bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



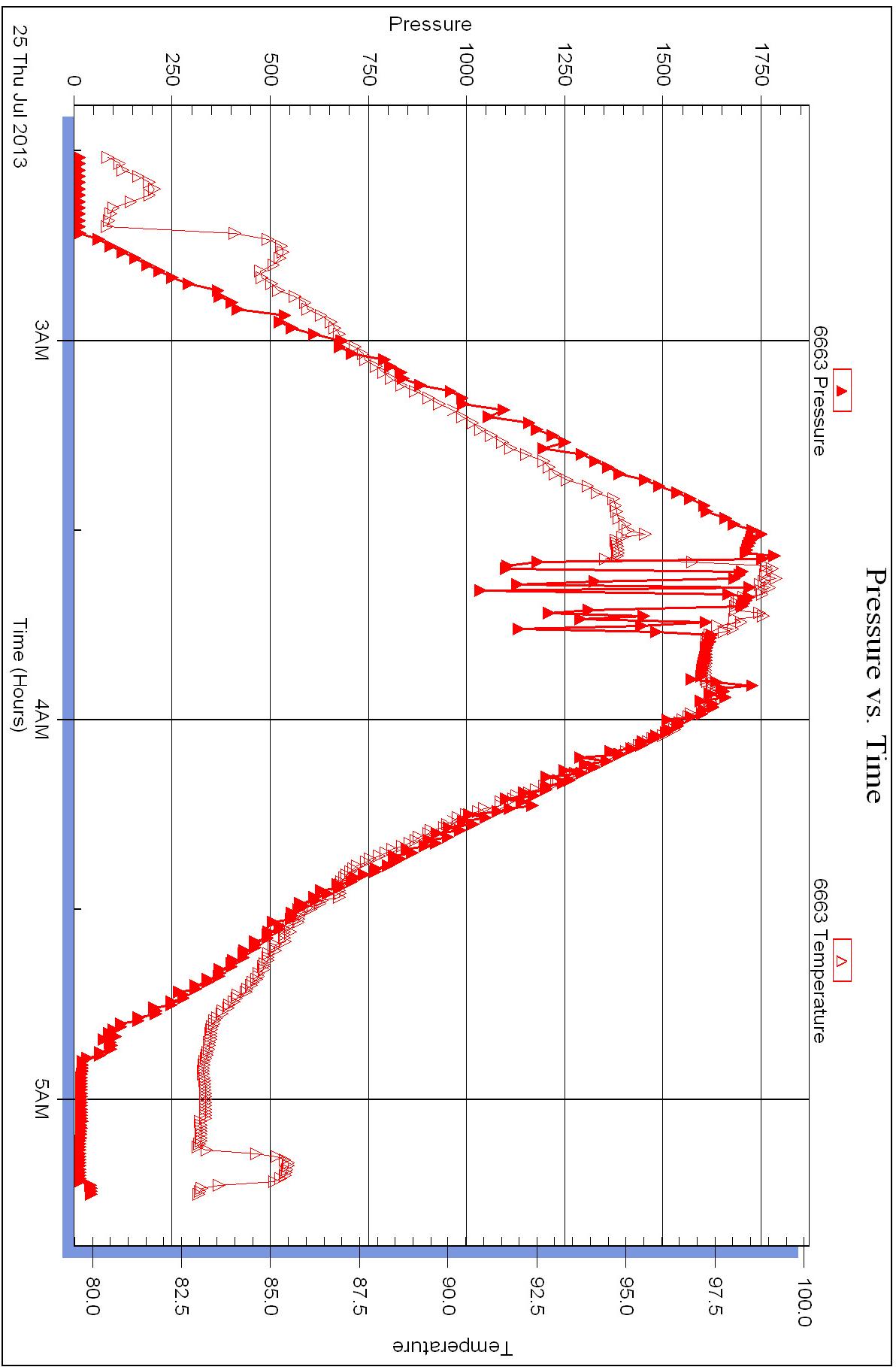
Serial #: 6663

Inside

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

McDonald #1-19

DST Test Number: 9



Superior Testers Enterprises LLC

Ref. No: 17105

Printed: 2013.07.26 @ 04:28:36



DRILL STEM TEST REPORT

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

9431 East Central Suite100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

McDonald #1-19

19-20s-13w Barton

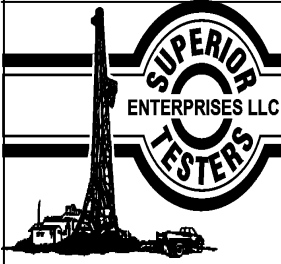
Start Date: 2013.07.25 @ 00:00:00

End Date: 2013.07.25 @ 00:00:00

Job Ticket #: 17106 DST #: 10

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

Printed: 2013.07.26 @ 04:27:28



DRILL STEM TEST REPORT

F.G. Holl Company L.L.C.
 9431 East Central Suite100
 Wichita, Kansas 67206-2563
 ATTN: Ryan Greenbaum

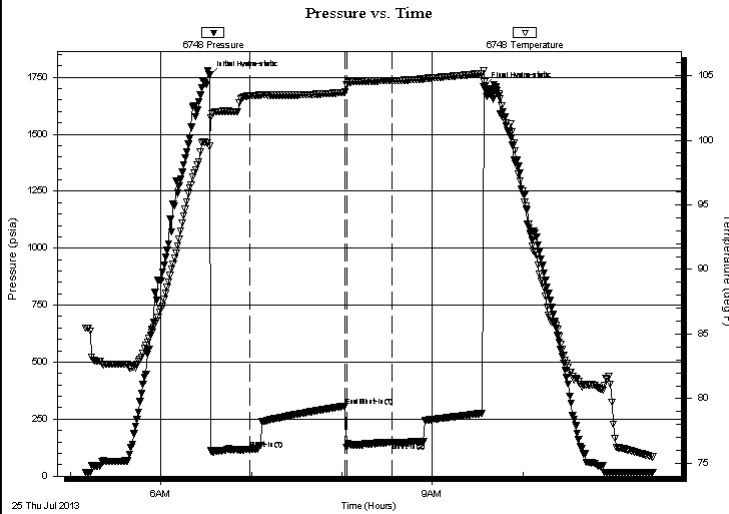
19-20s-13w Barton
McDonald #1-19
 Job Ticket: 17106 **DST#: 10**
 Test Start: 2013.07.25 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 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: 3335
 Interval: **3443.00 ft (KB) To 3535.00 ft (KB) (TVD)**
 Reference Elevations: 1888.00 ft (KB)
 Total Depth: 3535.00 ft (KB) (TVD) 1880.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6748 Inside
 Press@RunDepth: 307.96 psia @ 3532.88 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.25 End Date: 2013.07.25 Last Calib.: 2013.07.26
 Start Time: 02:30:00 End Time: 11:26:30 Time On Btm: 2013.07.25 @ 06:32:00
 Time Off Btm: 2013.07.25 @ 09:34:30

TEST COMMENT: 1st Opening 30 Minutes Weak building blow built to 10 inches into the water
 1st Shut-in 60 Minutes no blow back
 2nd Opening 30 Minutes-Weak blow built to 4 inches into the water decreased and died
 2nd Shut-In 60 Minutes No blow back



PRESSURE SUMMARY

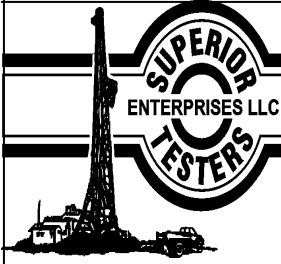
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1759.36	99.55	Initial Hydro-static
27	117.98	103.45	Shut-In(1)
90	307.96	103.72	End Shut-In(1)
91	126.16	104.27	Open To Flow (1)
121	148.63	104.62	Shut-In(2)
183	1708.45	104.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	drilling mud	1.40

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company L.L.C.
 9431 East Central Suite100
 Wichita, Kansas 67206-2563
 ATTN: Ryan Greenbaum

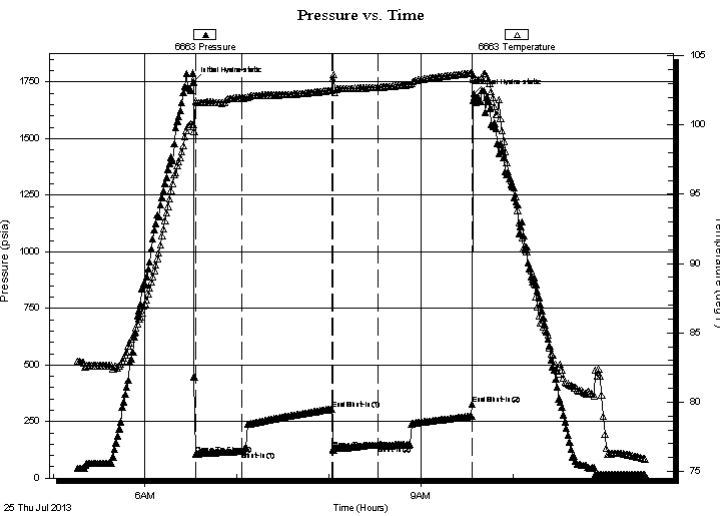
19-20s-13w Barton
McDonald #1-19
 Job Ticket: 17106 **DST#: 10**
 Test Start: 2013.07.25 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:00:00 Tester: Gene Budig
 Time Test Ended: 00:00:00 Unit No: 3335
 Interval: **3443.00 ft (KB) To 3535.00 ft (KB) (TVD)** Reference Elevations: 1888.00 ft (KB)
 Total Depth: 3535.00 ft (KB) (TVD) 1880.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6663 Inside
 Press@RunDepth: 327.20 psia @ 3531.88 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.07.25 End Date: 2013.07.25 Last Calib.: 2013.07.26
 Start Time: 02:30:00 End Time: 11:26:30 Time On Btm: 2013.07.25 @ 06:31:30
 Time Off Btm: 2013.07.25 @ 09:34:30

TEST COMMENT: 1st Opening 30 Minutes Weak building blow built to 10 inches into the water
 1st Shut-in 60 Minutes no blow back
 2nd Opening 30 Minutes-Weak blow built to 4 inches into the water decreased and died
 2nd Shut-In 60 Minutes No blow back



PRESSURE SUMMARY

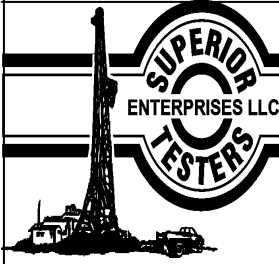
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1750.23	100.00	Initial Hydro-static
2	105.28	101.71	Open To Flow (1)
32	118.65	101.95	Shut-In(1)
91	305.77	102.50	End Shut-In(1)
91	129.03	103.34	Open To Flow (2)
121	146.68	102.71	Shut-In(2)
182	327.20	103.79	End Shut-In(2)
183	1700.52	103.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	drilling mud	1.40

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17106

DST#: 10

ATTN: Ryan Greenbaum

Test Start: 2013.07.25 @ 00:00:00

Tool Information

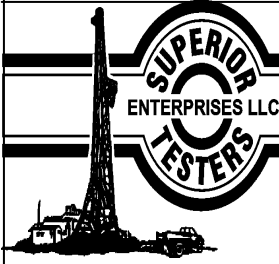
Drill Pipe:	Length: 3433.00 ft	Diameter: 3.80 inches	Volume: 48.16 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 48.16 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3443.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.88 ft			
Tool Length:	120.88 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			3420.00	
Hydraulic Tool	5.00			3425.00	
Safety Joint	2.00			3427.00	
Jars	6.00			3433.00	
Packer	5.00			3438.00	28.00 Bottom Of Top Packer
Packer	5.00			3443.00	
Change Over Sub	0.75			3443.75	
Drill Pipe	62.38			3506.13	
Change Over Sub	0.75			3506.88	
Anchor	24.00			3530.88	
Recorder	1.00	6663	Inside	3531.88	
Recorder	1.00	6748	Inside	3532.88	
Bullnose	3.00			3535.88	92.88 Bottom Packers & Anchor

Total Tool Length: 120.88



DRILL STEM TEST REPORT

FLUID SUMMARY

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

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17106

DST#: 10

ATTN: Ryan Greenbaum

Test Start: 2013.07.25 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 68.00 sec/qt

Water Loss: 9.20 in³

Resistivity: ohm.m

Salinity: 8200.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	drilling mud	1.403

Total Length: 100.00 ft Total Volume: 1.403 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

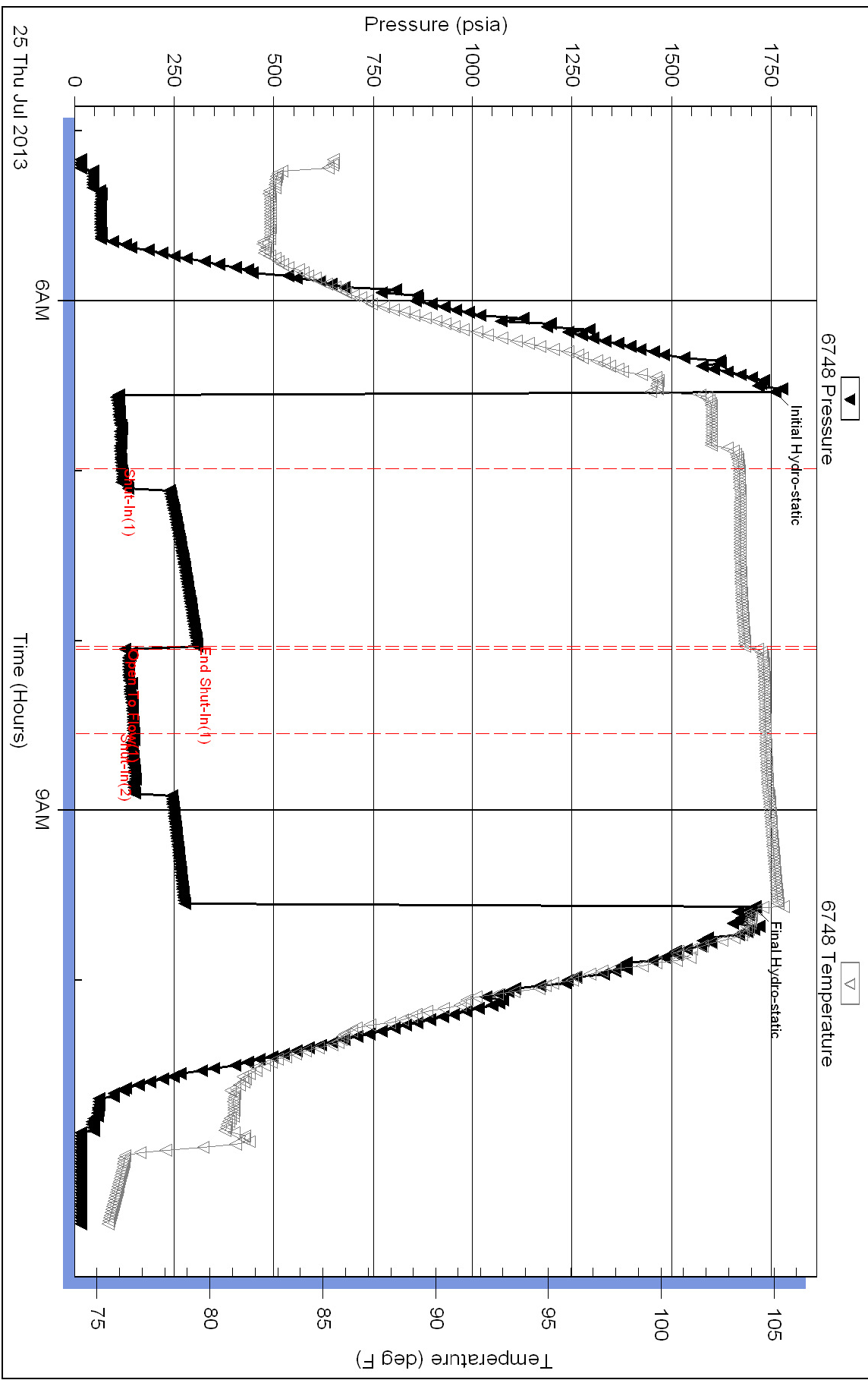
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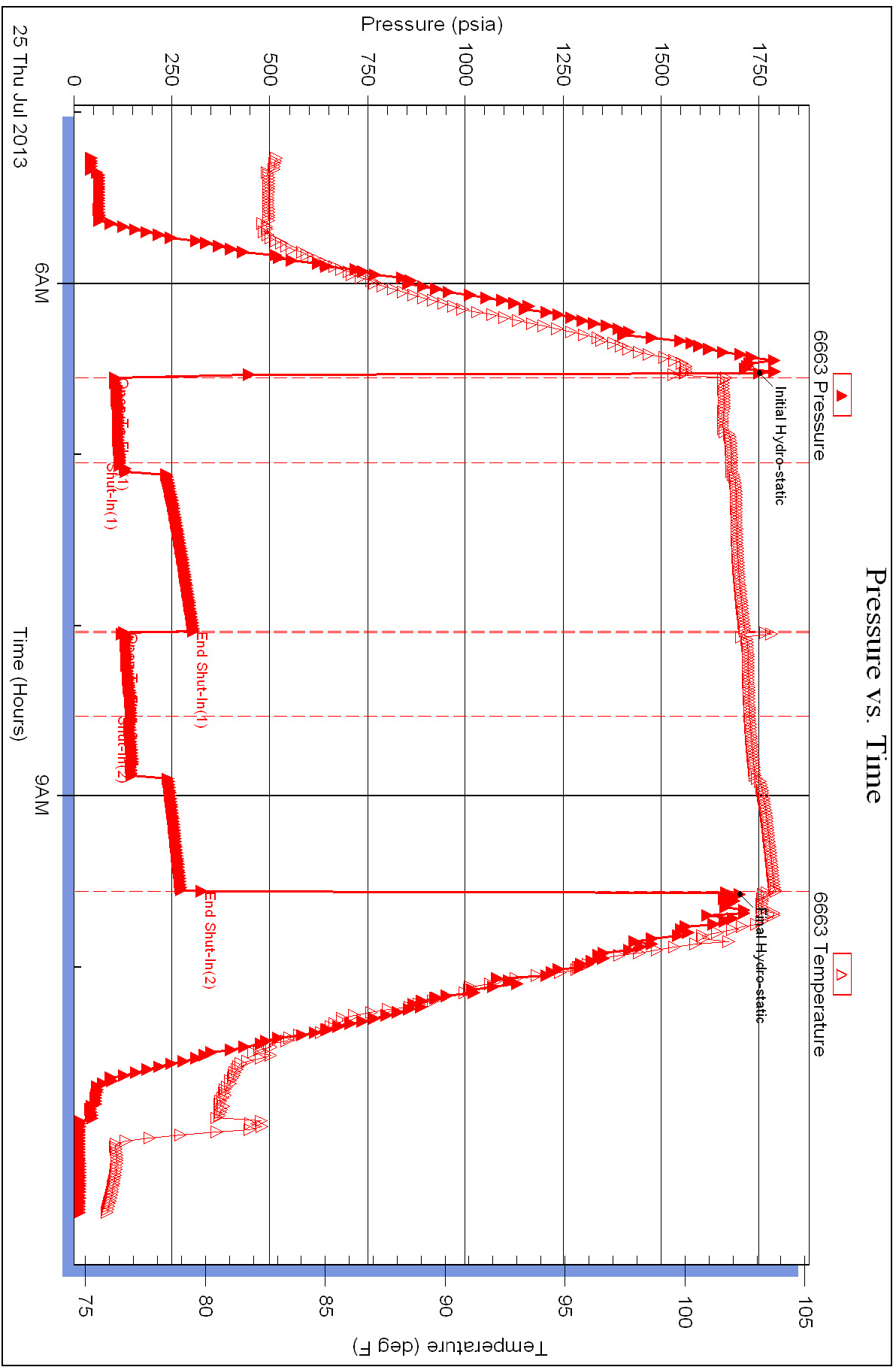
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

9431 East Central Suite100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

McDonald #1-19

19-20s-13w Barton

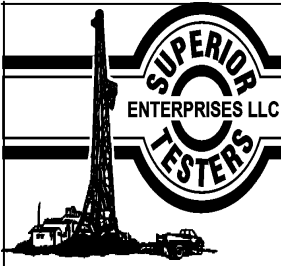
Start Date: 2013.07.26 @ 00:00:00

End Date: 2013.07.26 @ 00:00:00

Job Ticket #: 17107 DST #: 11

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

Printed: 2013.07.26 @ 11:36:20



DRILL STEM TEST REPORT

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

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17107

DST#: 11

ATTN: Ryan Greenbaum

Test Start: 2013.07.26 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

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: 3335

Interval: 3534.00 ft (KB) To 3545.00 ft (KB) (TVD)

Reference Elevations: 1888.00 ft (KB)

Total Depth: 3545.00 ft (KB) (TVD)

1880.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6748 Outside

Press@RunDepth: psia @ 3542.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.07.26 End Date: 2013.07.26

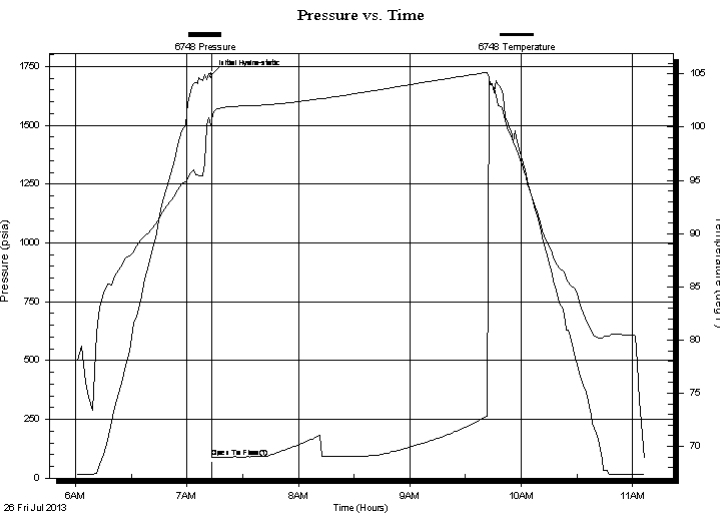
Last Calib.: 2013.07.26

Start Time: 06:00:00 End Time: 11:06:30

Time On Btm: 2013.07.26 @ 07:13:00

Time Off Btm:

TEST COMMENT: 1st opening 30 Minutes weak surface blow through out
1st Shut-In 30 Minutes no blow back
2nd Opening 30 Minutes-weak surface blow through out
2nd Shut-In 60 Minutes no blow back



PRESSURE SUMMARY

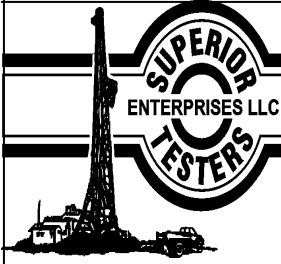
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1715.63	100.54	Initial Hydro-static
1	88.47	100.78	Open To Flow (1)

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17107

DST#: 11

ATTN: Ryan Greenbaum

Test Start: 2013.07.26 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3528.00 ft	Diameter: 3.80 inches	Volume: 49.49 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: 60000.00 lb
			<u>Total Volume: 49.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3534.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	39.00 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			3511.00	
Hydraulic Tool	5.00			3516.00	
Safety Joint	2.00			3518.00	
Jars	6.00			3524.00	
Packer	5.00			3529.00	28.00 Bottom Of Top Packer
Packer	5.00			3534.00	
Anchor	6.00			3540.00	
Recorder	1.00	6663	Inside	3541.00	
Recorder	1.00	6748	Outside	3542.00	
Bullnose	3.00			3545.00	11.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

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

19-20s-13w Barton

9431 East Central Suite100
Wichita, Kansas 67206-2563

McDonald #1-19

Job Ticket: 17107

DST#: 11

ATTN: Ryan Greenbaum

Test Start: 2013.07.26 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 6900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl

Total Length: ft Total Volume: bbl

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

Laboratory Name: Laboratory Location:

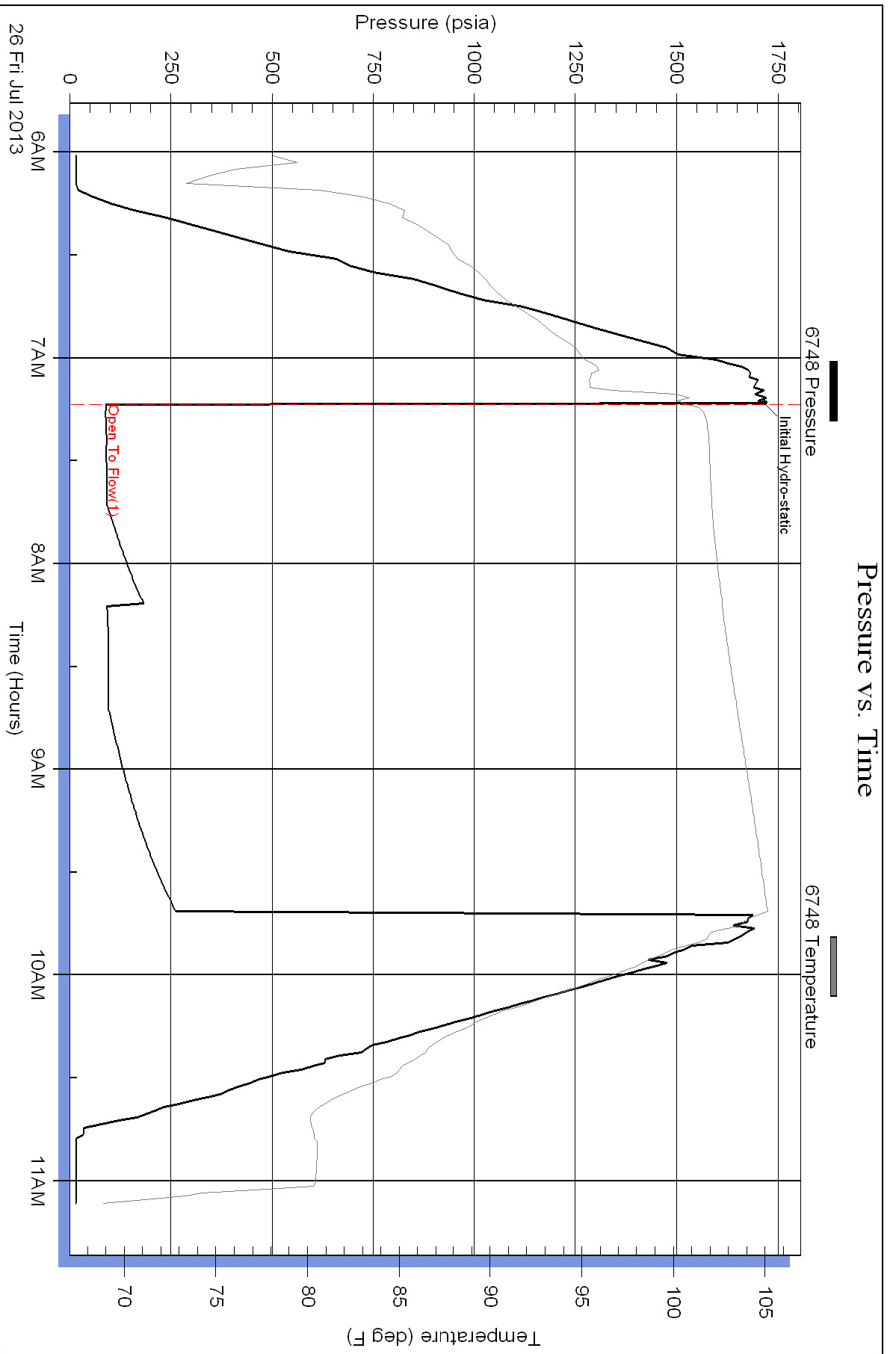
Recovery Comments:

Serial #: 6748

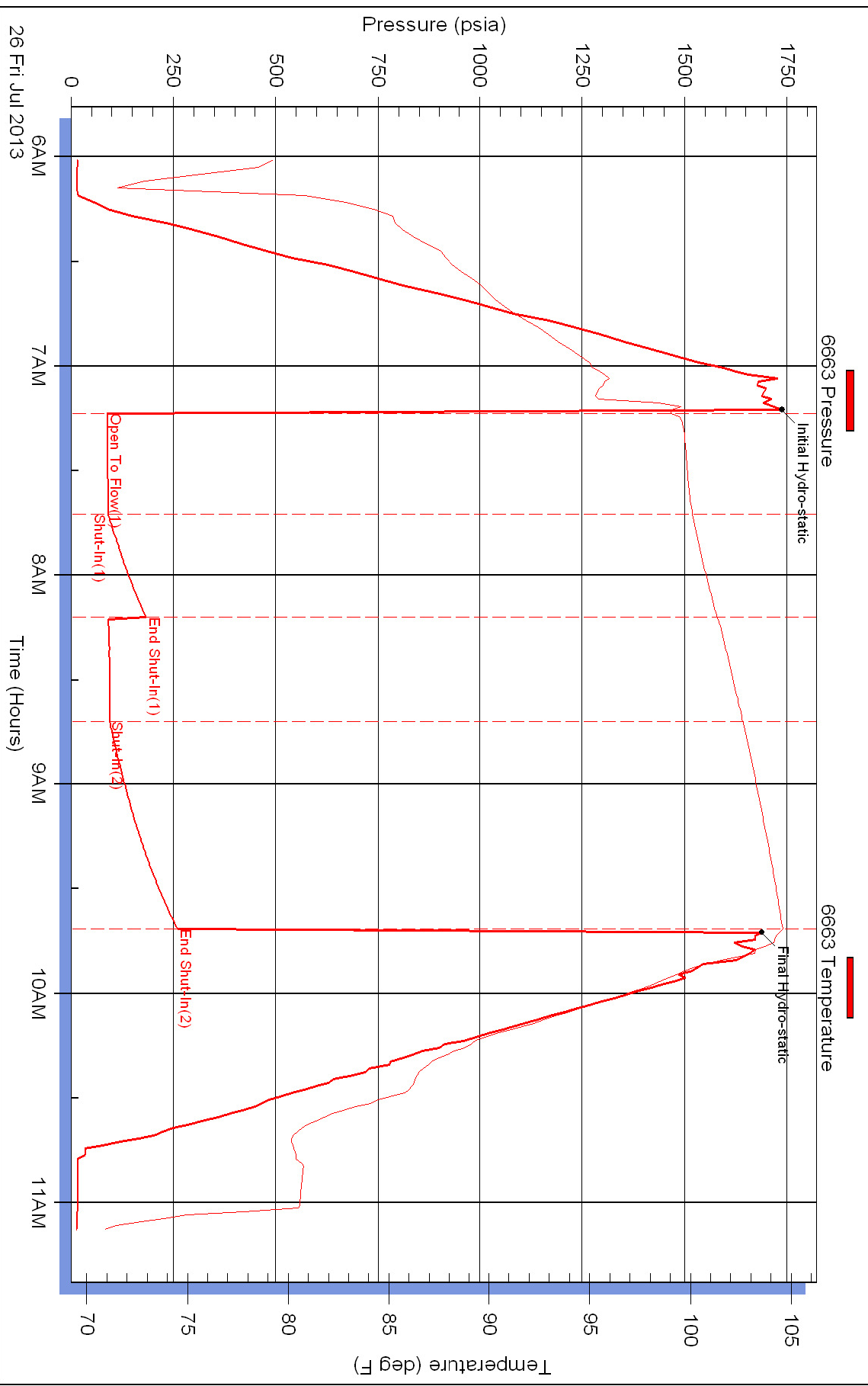
Outside F.G. Holl Company L.L.C.

McDonald #1-19

DST Test Number: 11



Pressure vs. Time



Customer F.G HOLL	Lease No.	Date 7-27-13
Lease McDonald	Well # 1-18	
Field Order # 8342	Station PLATT, KS	Casing 4 1/2
Type Job 4 1/2 LS CNW	Formation	Depth
		County Barton
		State KS
		Legal Description 18-20-13

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size 4 1/2	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth 3700	Depth	From	To	Pre Pad	Max		5 Min.
Volume 58	Volume	From	To	Pad	Min		10 Min.
Max Press 2000	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 3682	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative	Station Manager	Treater
Service Units 27463	19886-19880	28443
Driver Names MIKE	MIKE	JOE

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
1630					on loc / safety meeting
					Run 89 JTS csg
					Turbo's on 1-2-3-4-5-6-7-8-9-10
					Basket on 6
1930					csg on Bottom
1935					hook up to Big TO circ.
21:35					hook up to pump to start job
	200		5	6.5	H2O spacer
			12		super flush
			5		H2O spacer
			5		mix 25 SK scavenger at 14"
	400		38		mix 150 SK AA2 cement at 15"
					Shut Down / clear pump and line
					Release Plug
				6.5	start H2O disp
	400				LIFT PSI
					slow Rate
2200	1500		57	6.5	Plug Down
					JOB COMPLETE
					Thankyou JOE



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 08644 A

19-205-13W

DATE _____ TICKET NO. _____

DATE OF JOB 7-17-13		DISTRICT Pratt, Kansas		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 F.G. Hall Company, LLC				LEASE McDonald				WELL NO. 1-19	
ADDRESS				COUNTY Barton		STATE Kansas			
CITY				STATE		SERVICE CREW C. Messing, M. McGraw, T. Hume			
AUTHORIZED BY				JOB TYPE: C NW - Surface					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
38216	1.9						7-17-13	PM	1:00
						ARRIVED AT JOB		AM	4:30
						START OPERATION		AM	8:15
77656 11905	1.9					FINISH OPERATION		AM	9:45
						RELEASED	7-17-13	AM	10:00
19960-2100	1.5					MILES FROM STATION TO WELL			50

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: Neon Vasquez
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CF 101	A Cen Blend Cement	sk	150	\$	
CF 1000	Common Cement	sk	175	\$	
CF 102	Cellflite	Lb	89	\$	
CF 109	Calcium Chloride	Lb	840	\$	
CF 105	Tap Rubber Plug 8 7/8"	ea	1	\$	
CF 1753	Centralizer 8 7/8"	ea	3	\$	
E 100	Partip Mileage	mi	50	\$	
E 101	Heavy Equipment Mileage	mi	100	\$	
E 113	Bulk Delivery	ts	232	\$	
CE 201	Cement Pump: Surface To 1000 Feet	hrs	4	\$	
CE 240	Blending and Mixing Service	sk	355	\$	
CE 504	Plug Cement	TL	1	\$	
5003	Amorco Superior	hrs	3	\$	

SUB TOTAL

CHEMICAL / ACID DATA:

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

TOTAL

SERVICE REPRESENTATIVE R. Williams

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Neon Vasquez

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer G. Hall Company, LLC	Lease No.	Date 7-17-13
Lease McDonald	Well # 1-19	
Field Order # 8644	Station Pratt, Kansas	Casing 8 7/8 23lb
Type Job C.N.U. - Surface	Depth 770 Feet	County Barton
	Formation	State Kansas
		Legal Description 19-205-13W

PIPE DATA		PERFORATING DATA		CEMENT USED		TREATMENT RESUME		
Casing Size 8 7/8 23lb/ft.	Tubing Size	Shots/Ft	180 sacks A	CON Blend with 38 Calcium Chloride	RATE	PRESS	ISIP	25 lb/st cell plate
Depth 770 Feet	Depth	From	To	12 lb / Gal, 14.49 Gal	Max	2.47 cu. FT. / ft.	5 Min.	
Volume 49.3 Bbl	Volume	From	To		Min		10 Min.	
Max Press 300 PSI	Max Press	From	To	175 sacks commencement with 38 Calcium Chloride	Avg		15 Min.	25 lb / st cell plate
Well Connection Plug Container	Annulus Vol.	From	To	15.6 lb / Gal, 5.73 Gal / st	HHP Used	1.20 cu. FT. / ft.		Annulus Pressure
Plug Depth 755 Feet	Packer Depth	From	To	Flush 48 Bbl. Fresh Water	Gas Volume			Total Load

Customer Representative Dean	Station Manager Kevin Gordley	Treater Clarence R. Messick
---------------------------------	----------------------------------	--------------------------------

Service Units	37,216	77,686	19,905	19,960	21,010
Driver Names	Mc Messick	Mc Grow	True Min		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:30					Trucks on location and hold safety meeting.
7:15					Duke Drilling start to run 18 joints new 23lb/ft. 8 7/8 casing. A centralizer was installed on collars # 10, 9, and # 17.
8:00					Casing in well. Circulate for 5 minutes
8:20	200			5	Start Fresh Water Pre-Flush
			10	5	Start mixing 180 sacks A con Blend cement.
			89	5	Start mixing 175 sacks commencement
	-0-		126		Stop pumping. Shut in well Release Top Rubber Plug. Open well.
8:55	150			5	Start Fresh water Displacement.
9:05	300		48		Plug down. Shut in well. Circulated 15 Bbl cement to the pit Wash up pump truck
10:00					Job Complete Thank You Clarence, Mike, Tim