



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1090324
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

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

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1090324

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

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

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

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

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

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

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

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	MULL 'A' UNIT 1-3
Doc ID	1090324

All Electric Logs Run

CPI
DIL
CNL/CDL
BHCS
Microresistivity

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	MULL 'A' UNIT 1-3
Doc ID	1090324

Tops

Name	Top	Datum
Herrington	1854	+110
Winfield	1903	+61
Towanda	1966	-2
Ft Riley	2001	-37
B/Florence	2108	-144
Kinney LS	2122	-158
Wrefold	2156	-192
Council Grove	2176	-212
Crouse	2216	-252
Stotler	2712	-748
Heebner	3243	-1279
Toronto	3256	-1292
Douglas Shale	3270	-1306
Brown Lime	3327	-1363
Lansing	3338	-1374
Arbuckle	3705	-1741
RTD	3850	-1886

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

Sam Brownback, Governor

August 10, 2012

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

Re: ACO1
API 15-009-25731-00-00
MULL 'A' UNIT 1-3
SE/4 Sec.03-20S-15W
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



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 05949 A

DATE _____ TICKET NO. _____

DATE OF JOB: 7-29-12 DISTRICT: 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: FG Holl Co. LLC				LEASE: M411 A' unit 1-3 WELL NO.:					
ADDRESS:				COUNTY: Barton 3-20-15 STATE: KS					
CITY: STATE:				SERVICE CREW: Allen, Joe, Steve, Eric, Piet					
AUTHORIZED BY:				JOB TYPE: 8 5/8" surface CNO					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
28443 P.H.	2.15						7-29-12	4:40	12:40
33775-20920	2.15					ARRIVED AT JOB	7-29	AM	1:40
19960-21010	2.15					START OPERATION	7-29	AM	15:45
37900	2.15					FINISH OPERATION	7-29	AM	19:00
						RELEASED	7-29	AM	20:30
						MILES FROM STATION TO WELL	5.5 miles		

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: [Signature]
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP101	A-Cow Blend Common	SK	200		
CP1006	Common Cement	SK	175		
CC102	cell FLAKE	lb	94		
CC109	calcium chloride	lb	894		
CF106	Top Rubber cement Plug 8 5/8"	EA	1		
CF1753	cent. 8 5/8" Blue	EA	3		
E100	unit mileage charge P.H.	mi	5.5		
E101	Heavy Equip. mileage	m.	110		
E113	Bulk Delivery chg	TM	971		
CE201	Depth Chg 501-1000'	4-hr	1		
CE240	Blending & mixing service chg	SK	375		
CE504	Plug Container H. Location chg	Job	1		
5003	Service Supervisor First 8hrs on Job	EA	1		

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: [Signature] THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]
FIELD SERVICE ORDER NO. [Signature] (WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer FG HOLLICOLL	Lease No.	Date 7-29-12
Lease Mull 'A' UNIT	Well # 1-3	
Field Order # 05949A	Station Pratt	Casing 8 5/8"
	Depth 931	County Barton
Type Job 8 5/8"	Formation CNW	Legal Description 3-20-15

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 8 5/8"	Tubing Size	Shots/Ft	200	Acid	3% A-CON	RATE	PRESS	ISIP
Depth 931	Depth	From	To	Pre Pad	2% COM.	Max		5 Min.
Volume 55	Volume	From	To	Pad		Min		10 Min.
Max Press 500	Max Press	From	To	Frac		Avg		15 Min.
Well Connection PC	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush DISP H²O		Gas Volume		Total Load

Customer Representative Steve "TP"	Station Manager Scotty	Treater Allen / JOE
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Service Units	28443	33709	20920	19960	21010	37900			
Driver Names	Allen	STEVE	ERIC	STEVE	BROT	JOE			

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
13:50					Duke #8 on Loc. Discuss Safety, Setup Plan Job Run 24 JTS 8 5/8" 24# PIPE CENT. ON 1, 10, 21 CASH ON BOTTOM - Breaks circ. with Big
15:45			87	5	MIX 20% A-CON 12#
			37	5	MIX 17.5% COMMON 9T 15.6#
16:40					SHUT DOWN
16:45			0		Release Plug
			58	4.5	START H₂O DISP
19:00					CEMET TO SURFACE
					Plug Down Held
					circulation thru JOB
					circulated 15 BRL TO PIT
					JOB COMPLETE
					Thank you

BASIC

energy services, L.P.

TREATMENT REPORT

Customer F.L. Holl	Lease No.	Date 8-7-12
Lease Mull A Unit	Well # 1-3	
Field Order # 6373	Station Piata	Casing
Type Job CNW-PIA	Formation	Depth
		County Barlow
		State KS
		Legal Description 3-20-15

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft	220sv	60/40 60/40 Puz	RATE	PRESS	ISIP	
Depth	Depth	From	To	Pre Pad 1.1342	Max		5 Min.	
Volume	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative Steve	Station Manager Dave Scott	Treater Steve Johnson
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Service Units	27283	27463	19959	19860					
Driver Names	Orlando	McGowan	Lowrance						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:30 AM	8-6-12				On location - Safety Meeting
			1st plug @ 3690		with 25 gal 60/40 Puz
			10	4	H₂O
			7	4	(Cement)
			3	4	H₂O
11:30 AM	8-6-12		48	4	mod Displacement
			2nd plug @ 981		with H₂O
			10	4	H₂O
			8	4	(Cement)
			3	4	H₂O
1:00	8-7-12		7	4	mod Displacement
			3rd plug @ 578		with H₂O
			5	4	H₂O
			28	4	(Cement)
2:00 PM			2	4	H₂O Displacement
			4th plug @ 40'		with wood plugs + H₂O
			3	3	(Cement)
3:30 AM			6/4	3	30 gal RT-15 min H₂O
					305 gal H₂O
					7 truck stops



DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

Mull "A" Unit #1-3

3-30s-15w Barton

Start Date: 2012.07.31 @ 00:00:00

End Date: 2012.07.31 @ 00:00:00

Job Ticket #: 17783 DST #: 1

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

Printed: 2012.07.31 @ 22:26:55



DRILL STEM TEST REPORT

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

3-30s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Mull "A" Unit #1-3

Job Ticket: 17783

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2012.07.31 @ 00:00:00

GENERAL INFORMATION:

Formation: **Herrington & Winfiel**

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: 1820.00 ft (KB) To 1923.00 ft (KB) (TVD)

Reference Elevations: 1964.00 ft (KB)

Total Depth: 1923.00 ft (KB) (TVD)

1956.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 91716 Outside

Press @ RunDepth: 429.73 psia @ 1920.20 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.07.31

End Date: 2012.07.31

Last Calib.: 2012.07.31

Start Time: 06:00:00

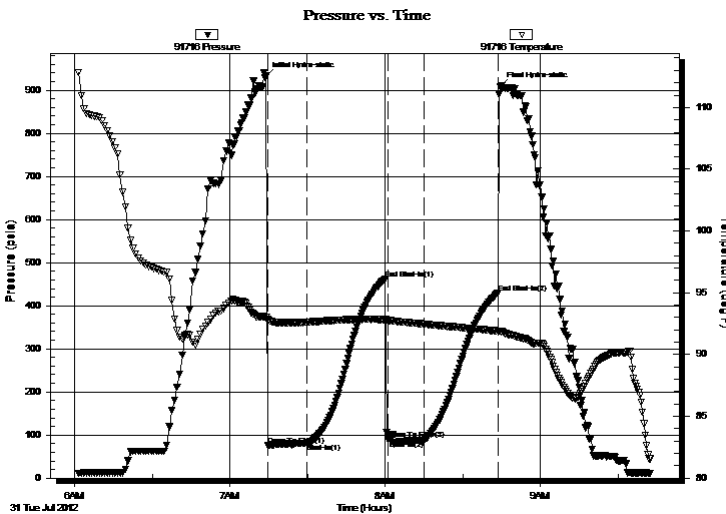
End Time: 09:42:29

Time On Btm: 2012.07.31 @ 07:14:00

Time Off Btm: 2012.07.31 @ 08:44:30

TEST COMMENT: 1st Opening 15 minutes-Weak surface blow through out
1st Shut-In 30 Minutes-No blow back
2nd Opening 15 Minutes- Weak surface blow for 6 minutes and died
2nd Shut-In 30 Minutes-No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	932.48	92.99	Initial Hydro-static
1	75.64	92.89	Open To Flow (1)
16	80.73	92.63	Shut-In(1)
46	462.57	92.82	End Shut-In(1)
47	89.49	92.79	Open To Flow (2)
61	87.66	92.46	Shut-In(2)
90	429.73	91.90	End Shut-In(2)
91	908.86	91.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Drilling mud	0.56

Gas Rates

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



DRILL STEM TEST REPORT

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

3-30s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Mull "A" Unit #1-3

Job Ticket: 17783

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2012.07.31 @ 00:00:00

GENERAL INFORMATION:

Formation: **Herrington & Winfiel**

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: 1820.00 ft (KB) To 1923.00 ft (KB) (TVD)

Reference Elevations: 1964.00 ft (KB)

Total Depth: 1923.00 ft (KB) (TVD)

1956.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8524 Inside

Press @ Run Depth: 464.11 psia @ 1919.20 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.07.31

End Date: 2012.07.31

Last Calib.: 2012.07.31

Start Time: 06:00:00

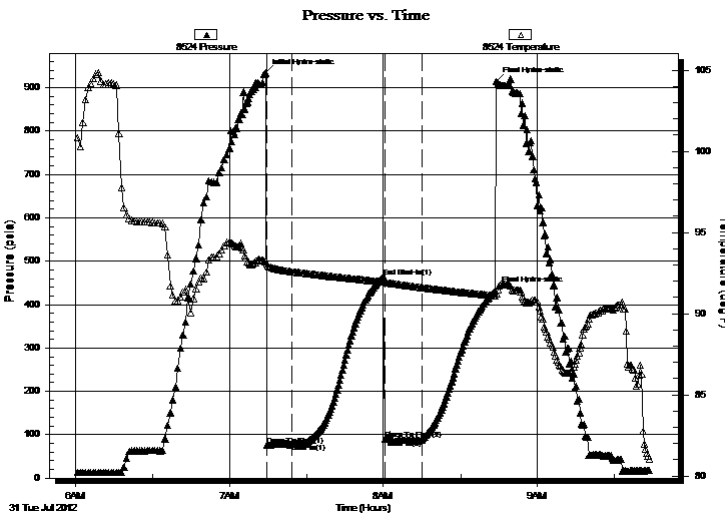
End Time: 09:43:30

Time On Btm: 2012.07.31 @ 07:14:00

Time Off Btm: 2012.07.31 @ 08:43:30

TEST COMMENT: 1st Opening 15 minutes-Weak surface blow through out
1st Shut-In 30 Minutes-No blow back
2nd Opening 15 Minutes- Weak surface blow for 6 minutes and died
2nd Shut-In 30 Minutes-No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	933.45	93.22	Initial Hydro-static
1	75.66	93.06	Open To Flow (1)
11	80.81	92.58	Shut-In(1)
46	464.11	91.95	End Shut-In(1)
47	89.47	91.94	Open To Flow (2)
61	88.37	91.61	Shut-In(2)
90	430.73	91.10	Final Hydro-static
90	913.55	91.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Drilling mud	0.56

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

3-30s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Mull "A" Unit #1-3

Job Ticket: 17783

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2012.07.31 @ 00:00:00

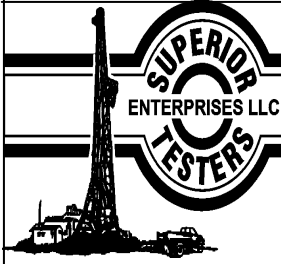
Tool Information

Drill Pipe:	Length: 1812.00 ft	Diameter: 3.80 inches	Volume: 25.42 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 24000.00 lb
			<u>Total Volume: 25.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 20000.00 lb
Depth to Top Packer:	1820.00 ft			Final 20000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	103.20 ft			
Tool Length:	131.20 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			1797.00	
Hydraulic Tool	5.00			1802.00	
Jars	6.00			1808.00	
Safety Joint	2.00			1810.00	
Packer	5.00			1815.00	28.00 Bottom Of Top Packer
Packer	5.00			1820.00	
Perforations	3.00			1823.00	
Change Over Sub	0.75			1823.75	
Drill Pipe	63.70			1887.45	
Change Over Sub	0.75			1888.20	
Perforations	30.00			1918.20	
Recorder	1.00	8524	Inside	1919.20	
Recorder	1.00	91716	Outside	1920.20	
Bull Plug	3.00			1923.20	103.20 Bottom Packers & Anchor

Total Tool Length: 131.20



DRILL STEM TEST REPORT

FLUID SUMMARY

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

3-30s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Mull "A" Unit #1-3

Job Ticket: 17783

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2012.07.31 @ 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: 42.00 sec/qt

Cushion Volume: bbl

Water Loss: 12.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psia

Salinity: 18000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Drilling mud	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

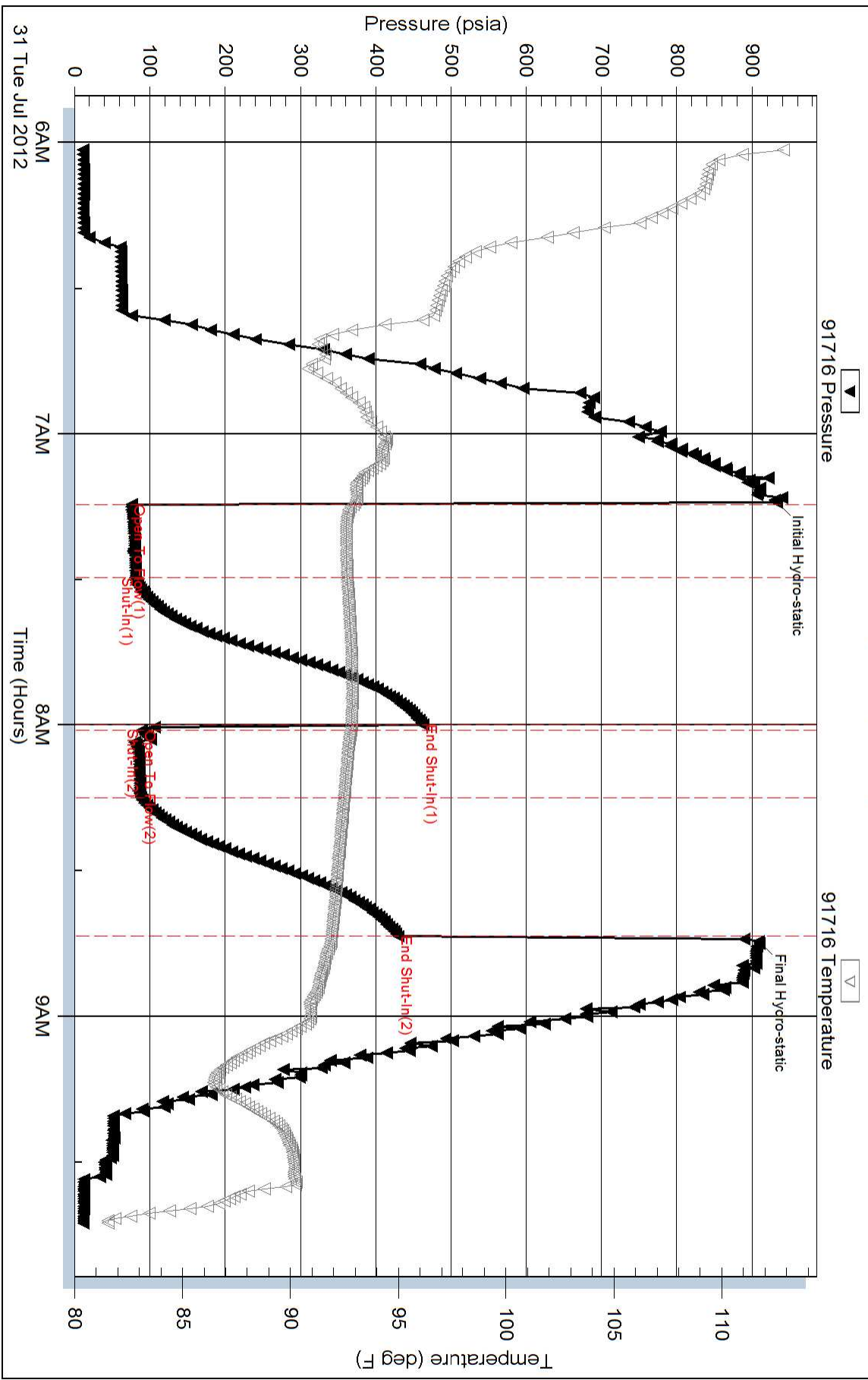
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Serial #: 8524

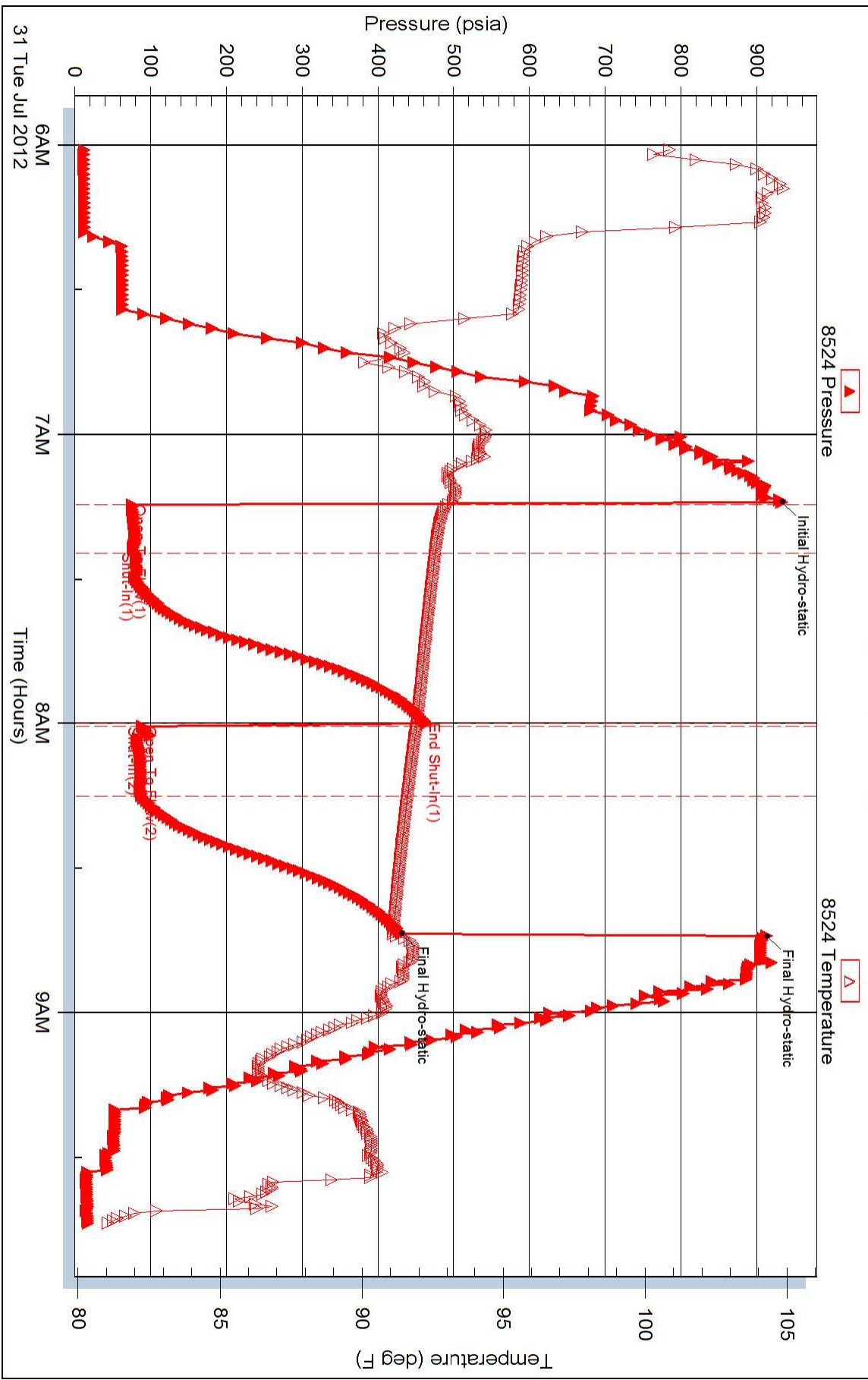
Inside

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

Mall "A" Unit #1-3

DST Test Number: 1

Pressure vs. Time



Superior Testers Enterprises LLC

Ref. No: 17783

Printed: 2012.07.31 @ 22:26:57



DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

Mull "A" Unit #1-3

3-30s-15w Barton

Start Date: 2012.08.04 @ 00:00:00

End Date: 2012.08.04 @ 00:00:00

Job Ticket #: 17318 DST #: 2

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

Printed: 2012.08.04 @ 05:49:05



DRILL STEM TEST REPORT

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

3-30s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Mull "A" Unit #1-3

Job Ticket: 17318

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2012.08.04 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335

Interval: 3450.00 ft (KB) To 3480.00 ft (KB) (TVD)

Reference Elevations: 1964.00 ft (KB)

Total Depth: 3480.00 ft (KB) (TVD)

1956.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8405 Outside

Press @ Run Depth: 897.15 psia @ 3477.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.08.03

End Date: 2012.08.03

Last Calib.: 2012.08.04

Start Time: 09:00:00

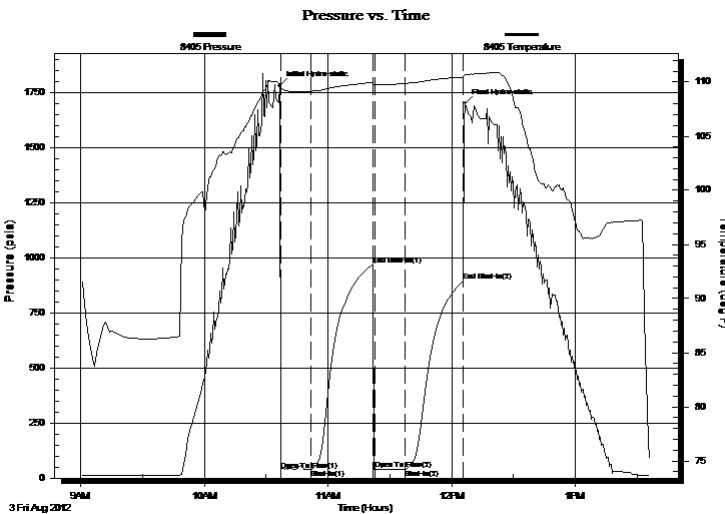
End Time: 13:36:00

Time On Btm: 2012.08.03 @ 10:36:30

Time Off Btm: 2012.08.03 @ 12:06:30

TEST COMMENT: 1st Opening 15 Minutes-very weak surface blow for 1 minute 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



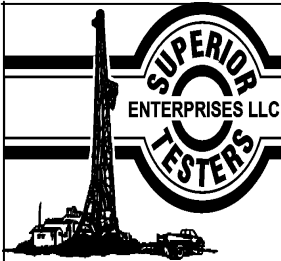
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1781.59	109.87	Initial Hydro-static
1	38.04	109.30	Open To Flow (1)
15	39.21	109.15	Shut-In(1)
46	970.86	109.96	End Shut-In(1)
46	40.09	109.76	Open To Flow (2)
62	39.44	109.87	Shut-In(2)
89	897.15	110.45	End Shut-In(2)
90	1702.78	110.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Drilling Mud	0.03

Gas Rates

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



DRILL STEM TEST REPORT

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

3-30s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Mull "A" Unit #1-3

Job Ticket: 17318

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2012.08.04 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335

Interval: 3450.00 ft (KB) To 3480.00 ft (KB) (TVD)

Reference Elevations: 1964.00 ft (KB)

Total Depth: 3480.00 ft (KB) (TVD)

1956.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8400

Inside

Press @ Run Depth: 895.91 psia @ 3476.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.08.03

End Date:

2012.08.03

Last Calib.:

2012.08.04

Start Time: 09:00:00

End Time:

13:37:00

Time On Btm:

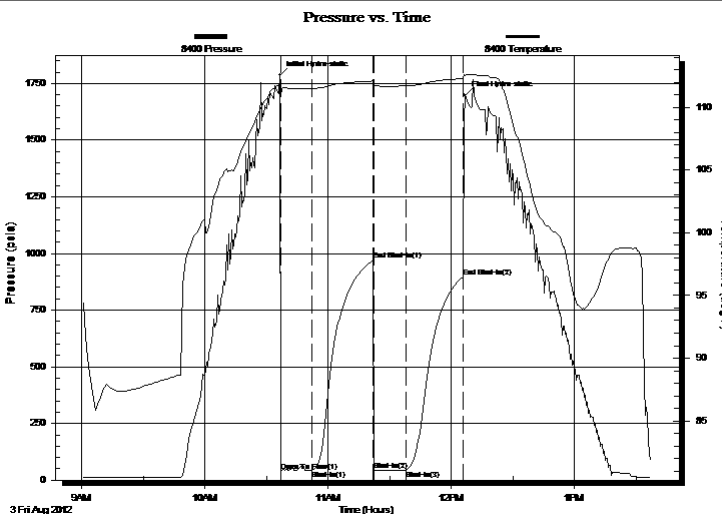
2012.08.03 @ 10:36:30

Time Off Btm:

2012.08.03 @ 12:06:30

TEST COMMENT: 1st Opening 15 Minutes-very weak surface blow for 1 minute 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	1786.66	111.82	Initial Hydro-static
1	40.02	110.96	Open To Flow (1)
16	43.95	111.52	Shut-In(1)
46	970.23	112.11	End Shut-In(1)
46	43.36	111.66	Shut-In(2)
62	44.36	111.72	Shut-In(3)
89	895.91	112.28	End Shut-In(2)
90	1698.13	112.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Drilling Mud	0.03

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

3-30s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Mull "A" Unit #1-3

Job Ticket: 17318

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2012.08.04 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3448.00 ft	Diameter: 3.80 inches	Volume: 48.37 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: 44000.00 lb
			<u>Total Volume: 48.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3450.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 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			3427.00	
Hydraulic Tool	5.00			3432.00	
Jars	6.00			3438.00	
Safety Joint	2.00			3440.00	
Packer	5.00			3445.00	28.00 Bottom Of Top Packer
Packer	5.00			3450.00	
Perforations	25.00			3475.00	
Recorder	1.00	8400	Inside	3476.00	
Recorder	1.00	8405	Outside	3477.00	
Bull Plug	3.00			3480.00	30.00 Bottom Packers & Anchor
Total Tool Length:	58.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

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

3-30s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Mull "A" Unit #1-3

Job Ticket: 17318

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2012.08.04 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 7.80 in³
Resistivity: ohm.m
Salinity: 4500.00 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
2.00	Drilling Mud	0.028

Total Length: 2.00 ft Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

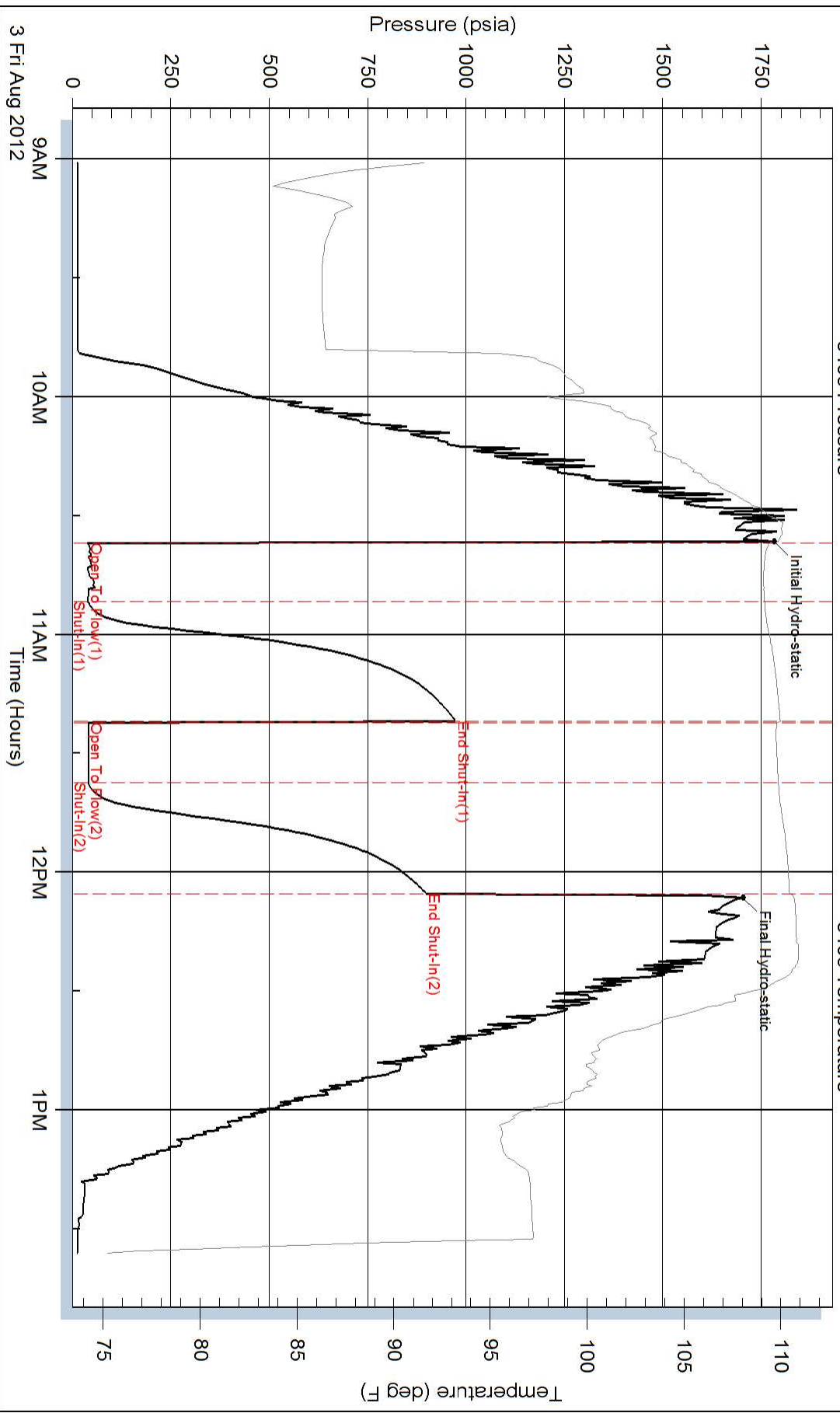
Serial #:

Laboratory Name:

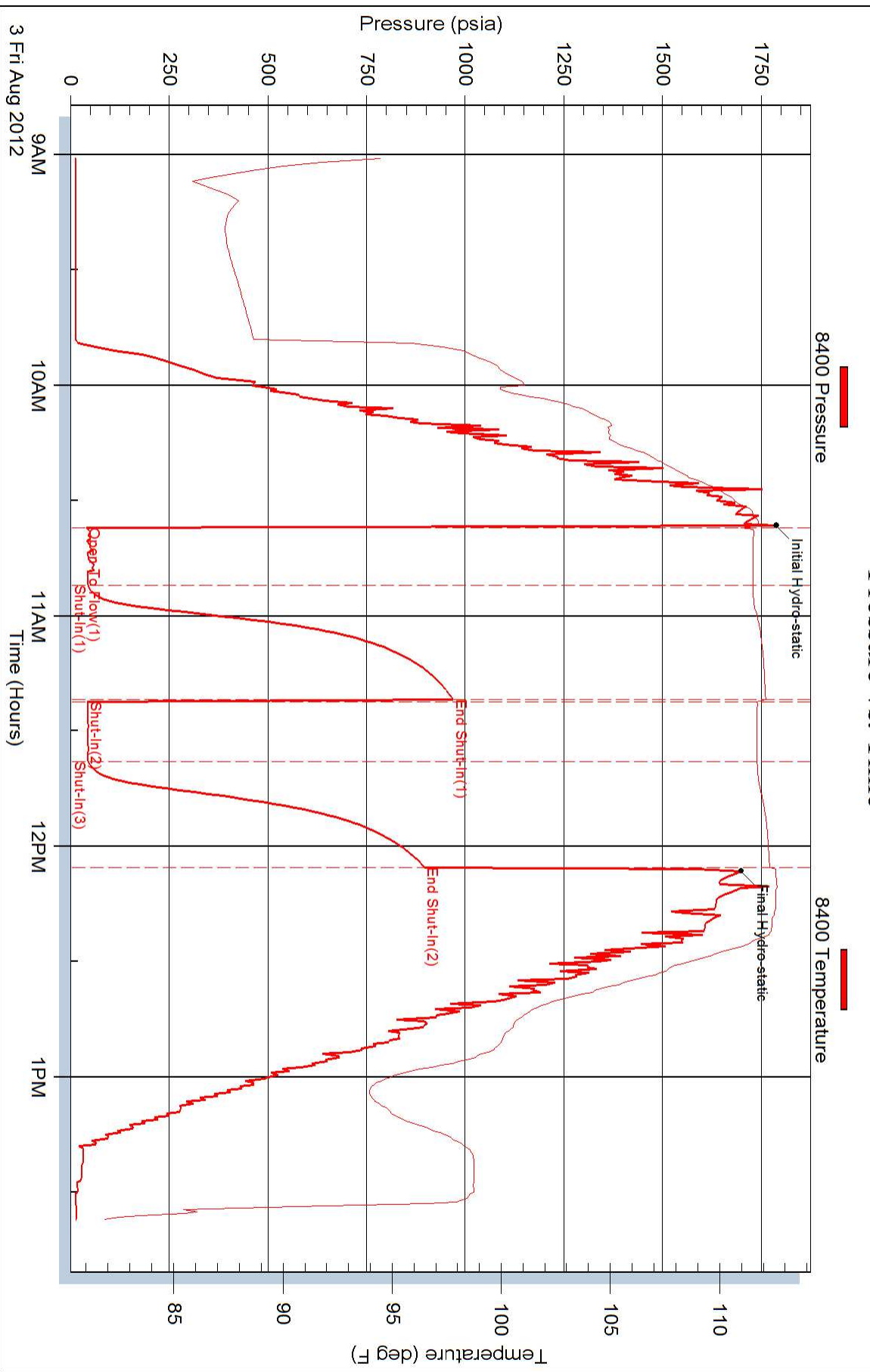
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

Mull "A" Unit #1-3

3-30s-15w Barton

Start Date: 2012.08.05 @ 00:00:00

End Date: 2012.08.05 @ 00:00:00

Job Ticket #: 17784 DST #: 3

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

Printed: 2012.08.05 @ 19:31:05



DRILL STEM TEST REPORT

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

3-30s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Mull "A" Unit #1-3

Job Ticket: 17784

DST#: 3

ATTN: Ryan Greenbaum

Test Start: 2012.08.05 @ 00:00:00

GENERAL INFORMATION:

Formation: **Conglomerate & Arbuc**

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: 335

Interval: 3550.00 ft (KB) To 3690.00 ft (KB) (TVD)

Reference Elevations: 1964.00 ft (KB)

Total Depth: 3690.00 ft (KB) (TVD)

1956.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8524

Inside

Press @ Run Depth: 180.70 psia @ 3686.13 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.08.05

End Date:

2012.08.05

Last Calib.:

2012.08.05

Start Time:

01:45:00

End Time:

06:56:30

Time On Btm:

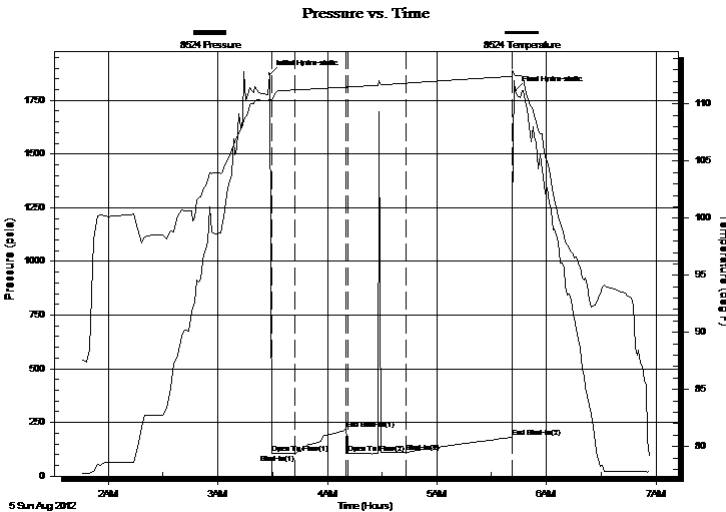
2012.08.05 @ 03:28:30

Time Off Btm:

2012.08.05 @ 05:43:00

TEST COMMENT: 1st Opening 15 Minutes-Weak blow and died
 1st Shut-In 30 Minutes-No blow back
 2nd Opening 30 Minutes-No blow -Flushed tool-Good surge-No help
 2nd Shut-In 60 Minutes-No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1871.71	110.38	Initial Hydro-static
1	104.62	110.33	Open To Flow (1)
14	102.27	111.24	Shut-In(1)
42	218.43	111.49	End Shut-In(1)
43	105.21	111.50	Open To Flow (2)
75	109.18	111.83	Shut-In(2)
133	180.70	112.43	End Shut-In(2)
135	1794.48	112.53	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.

3-30s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Mull "A" Unit #1-3

Job Ticket: 17784

DST#: 3

ATTN: Ryan Greenbaum

Test Start: 2012.08.05 @ 00:00:00

GENERAL INFORMATION:

Formation: **Conglomerate & Arbuc**

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: 335

Interval: 3550.00 ft (KB) To 3690.00 ft (KB) (TVD)

Reference Elevations: 1964.00 ft (KB)

Total Depth: 3690.00 ft (KB) (TVD)

1956.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 91716 Outside

Press @ RunDepth: 179.15 psia @ 3687.13 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.08.05

End Date:

2012.08.05

Last Calib.:

2012.08.05

Start Time: 01:45:00

End Time:

06:57:00

Time On Btm:

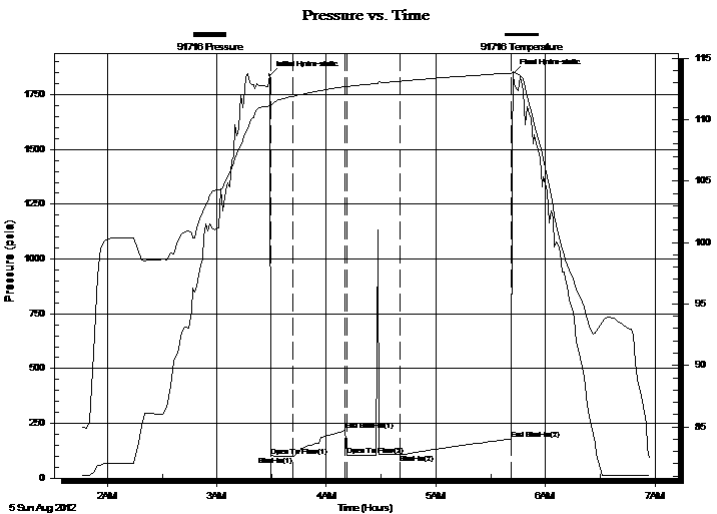
2012.08.05 @ 03:29:00

Time Off Btm:

2012.08.05 @ 05:42:30

TEST COMMENT: 1st Opening 15 Minutes-Weak blow and died
1st Shut-In 30 Minutes-No blow back
2nd Opening 30 Minutes-No blow -Flushed tool-Good surge-No help
2nd Shut-In 60 Minutes-No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1837.28	111.12	Initial Hydro-static
1	101.60	111.19	Open To Flow (1)
13	101.04	111.90	Shut-In(1)
41	220.68	112.67	End Shut-In(1)
42	103.84	112.68	Open To Flow (2)
72	107.65	113.12	Shut-In(2)
132	179.15	113.78	End Shut-In(2)
134	1847.94	113.84	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.

3-30s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Mull "A" Unit #1-3

Job Ticket: 17784

DST#: 3

ATTN: Ryan Greenbaum

Test Start: 2012.08.05 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3543.00 ft	Diameter: 3.80 inches	Volume: 49.70 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: 75000.00 lb
			<u>Total Volume: 49.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3550.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	140.13 ft			
Tool Length:	168.13 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			3527.00	
Hydraulic Tool	5.00			3532.00	
Jars	6.00			3538.00	
Safety Joint	2.00			3540.00	
Packer	5.00			3545.00	28.00 Bottom Of Top Packer
Packer	5.00			3550.00	
Perforations	4.00			3554.00	
Change Over Sub	0.75			3554.75	
Drill Pipe	124.63			3679.38	
Change Over Sub	0.75			3680.13	
Perforations	5.00			3685.13	
Recorder	1.00	8524	Inside	3686.13	
Recorder	1.00	91716	Outside	3687.13	
Bull Plug	3.00			3690.13	140.13 Bottom Packers & Anchor

Total Tool Length: 168.13



DRILL STEM TEST REPORT

FLUID SUMMARY

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

3-30s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Mull "A" Unit #1-3

Job Ticket: 17784

DST#: 3

ATTN: Ryan Greenbaum

Test Start: 2012.08.05 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 9.20 in³

Resistivity: ohm.m

Salinity: 50001.00 ppm

Filter Cake: 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
20.00	Drilling mud	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

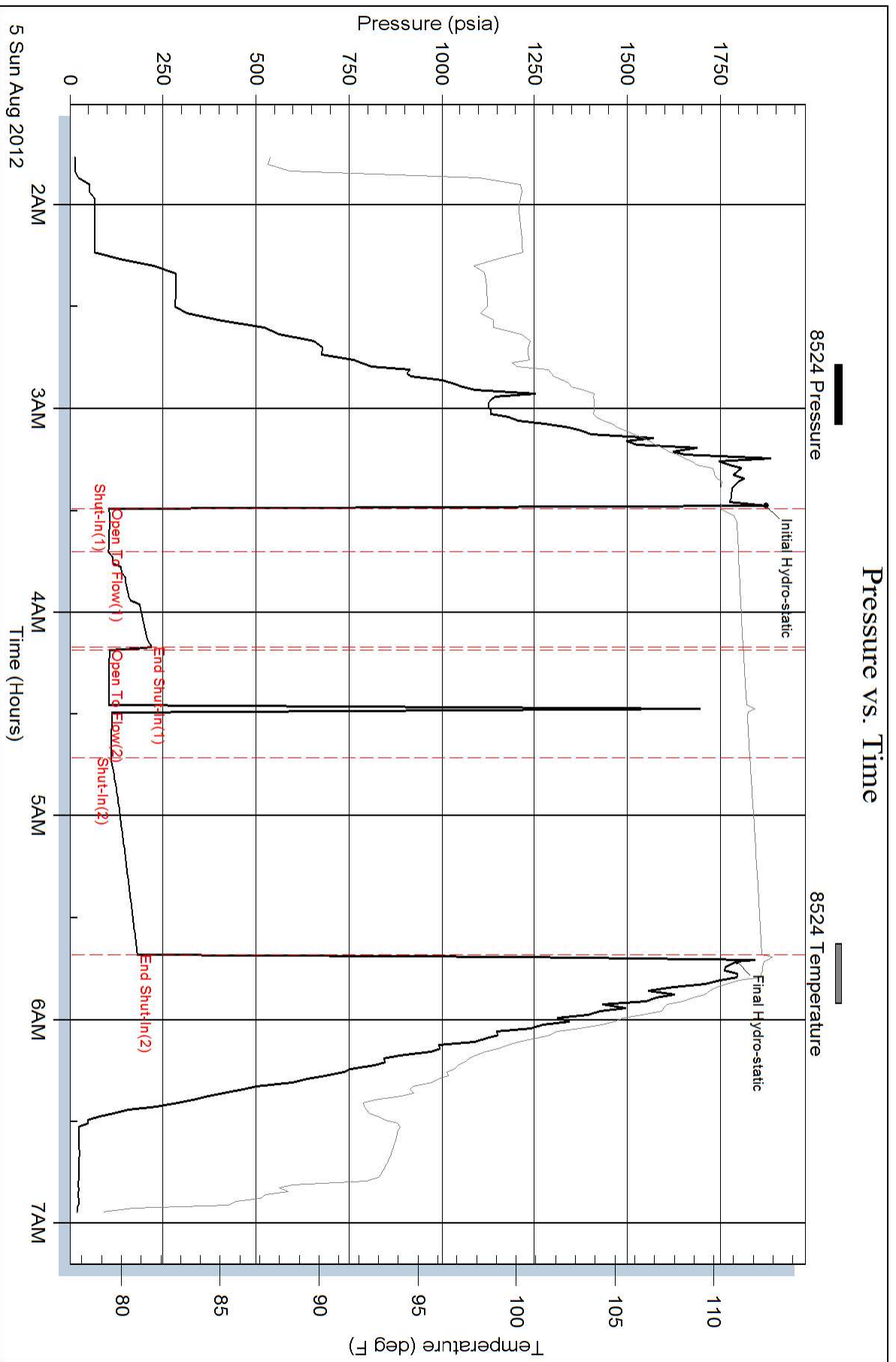
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

