



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1203379
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: _____

1203379

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
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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				

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	AXMAN 'A' UNIT 2-23
Doc ID	1203379

All Electric Logs Run

CDL/CNL
CPI
DIL
Microresistivity
BHCS
fracfinder

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	AXMAN 'A' UNIT 2-23
Doc ID	1203379

Tops

Name	Top	Datum
Herrington	1808	+106
Winfield	1854	+60
Towanda	1926	-12
Fort Riley	1962	-48
B/Florence	2057	-143
Kinney Ls	2073	-159
Wrefold	2102	-188
Council Grove	2122	-208
Crouse	2153	-239
Neva	2296	-382
Red Eagle	2362	-448
Onaga Shale	2501	-587
Wabaunsee	2525	-611
Root Shale	2574	-660
Stotler	2633	-719
Willard Shale	2652	-738
Tarkio	2695	-781
Howard	2833	-919
Severy Shale	2881	-967
Topeka	2903	-989
Heebner	3136	-1222
Toronto	3153	-1239
Douglas Shale	3166	-1252
Brown Lime	3201	-1287

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	AXMAN 'A' UNIT 2-23
Doc ID	1203379

Tops

Name	Top	Datum
LKC	3220	-1306
Drum	3346	-1432
BKC	3428	-1514
Arbuckle	3444	-1530
RTD	3700	-1786



196198

PAGE 1 of 1	CUST NO 1001376	INVOICE DATE 04/30/2014
INVOICE NUMBER 1718 - 91478699		

Pratt (620) 672-1201
 B F.G. HOLL COMPANY LLC
 I PO Box: 308
 L ELLINWOOD
 L KS US 67526
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Axman A Unit 2-23
 O LOCATION
 B COUNTY Barton *Dry Hole*
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40717779	20920		Net - 30 days	05/30/2014
<i>For Service Dates: 04/26/2014 to 04/26/2014</i>				
0040717779				
171810557A Cement-New Well Casing/Pi 04/26/2014				
Cement 8 5/8" Surface				
A-Con Blend Common	200.00	EA		
Common Cement	200.00	EA		
Celloflake	100.00	EA		
Calcium Chloride	940.00	EA		
"Top Rubber Cmt Plug, 8 5/8""	1.00	EA		
"Centralizer, 8 5/8" (Blue)"	3.00	EA		
"Unit Mileage Chg (PU, cars one way)"	70.00	MI		
Heavy Equipment Mileage	140.00	MI		
"Proppant & Bulk Del. Chgs., per ton mil	1,316.00	EA		
Depth Charge; 501'-1000'	1.00	EA		
Blending & Mixing Service Charge	400.00	BAG		
Plug Container Util. Chg.	1.00	EA		
"Service Supervisor, first 8 hrs on loc.	1.00	EA		

RECEIVED
 MAY 05 2014
 ROB LONG

406-1050

PLEASE REMIT TO: BASIC ENERGY SERVICES, LP PO BOX 841903 DALLAS, TX 75284-1903	SEND OTHER CORRESPONDENCE TO: BASIC ENERGY SERVICES, LP 801 CHERRY ST, STE 2100 FORT WORTH, TX 76102	SUB TOTAL TAX INVOICE TOTAL
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BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

1718 10557 A
FIELD SERVICE TICKET

DATE _____ TICKET NO. _____

DATE OF JOB <u>04-26-14</u> DISTRICT <u>1718 Pratt, KS</u>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER <u>F.G. Noll Co, LLC</u>		LEASE <u>Axman 'A' Unit</u> <u>2-23</u> WELL NO.							
ADDRESS		COUNTY <u>Barton</u> STATE <u>KS</u>							
CITY STATE		SERVICE CREW <u>Roger - Scott - Dale</u>							
AUTHORIZED BY <u>Kevin Gordon</u>		JOB TYPE: <u>242-8 5/8" Surface - (C/W)</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>21755</u>	<u>6</u>						<u>04-26-14</u>	<u>PM</u>	<u>0600</u>
<u>33708-20920</u>	<u>6</u>					ARRIVED AT JOB	"	<u>AM</u>	<u>0900</u>
<u>19959-73768</u>	<u>6</u>					START OPERATION	"	<u>AM</u>	<u>1130</u>
						FINISH OPERATION	"	<u>PM</u>	<u>1215</u>
						RELEASED	"	<u>AM</u>	<u>1300</u>
						MILES FROM STATION TO WELL			<u>70</u>

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

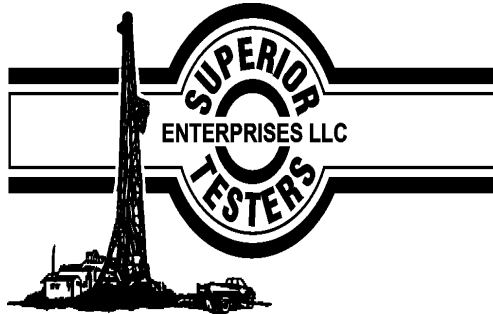
ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 101	'A-Gen' Blend Cement	sk	200		
CP 100 C	Common Cement	sk	200		
CG 102	Ca. Plo. Flake	lb.	100		
CC 109	Calcium Chloride	lb	940		
CF 105	Top Rubber Cement Plug, 8 5/8"	ea	1		
CF 1753	Centralizer, 8 5/8"	ea	3		
E 100	Unit mileage charge - Pickup	mi	70		
E 101	Heavy Equipment Mileage	mi	140		
E 113	Tu/Pr: Proppant and Bulk Delivery Charge, per ton	Tu/Pr	1316		
CE 201	Depth Charge, 500'-1000'	4 hrs	1		
CE 240	Blending & Mixing Service Charge	sk	900		
CE 504	Plug Container Utilization Charge	job	1		
5003	Service Supervisor, first 8 hrs on loc	ea	1		

CHEMICAL / ACID DATA:			

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

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

FIELD SERVICE ORDER NO.



DRILL STEM TEST REPORT

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

9431 Eastr Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Rene Husted

Axman "A" Unit #2-24

23-17s-15w Barton

Start Date: 2014.05.01 @ 00:00:00

End Date: 2014.05.01 @ 00:00:00

Job Ticket #: 19235 DST #: 1

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

Printed: 2014.05.01 @ 07:42:40



DRILL STEM TEST REPORT

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

23-17s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Axman "A" Unit #2-24

Job Ticket: 19235

DST#: 1

ATTN: Rene Husted

Test Start: 2014.05.01 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "F" Zone**

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: 3280.00 ft (KB) To 3292.00 ft (KB) (TVD)

Reference Elevations: 1914.00 ft (KB)

Total Depth: 3292.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6666

Inside

Press@RunDepth: 42.35 psig @ 3288.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.05.01

End Date:

2014.05.01

Last Calib.:

2014.05.01

Start Time: 01:30:00

End Time:

06:24:30

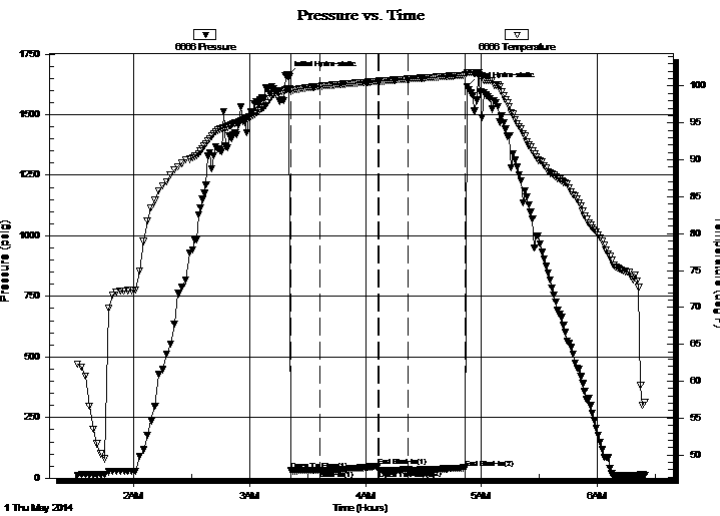
Time On Btm:

2014.05.01 @ 03:20:00

Time Off Btm:

2014.05.01 @ 04:52:30

TEST COMMENT: 1st Opening 15 Minutes-Very weak surface blow for 2 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 (psig)	Temp (deg F)	Annotation
0	1660.14	99.64	Initial Hydro-static
2	31.16	99.36	Open To Flow (1)
17	32.35	99.96	Shut-In(1)
47	48.80	100.64	End Shut-In(1)
47	32.85	100.65	Open To Flow (2)
62	34.98	100.95	Shut-In(2)
92	42.35	101.47	End Shut-In(2)
93	1616.26	101.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Slightly oil spotted mud	0.01

Gas Rates

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



DRILL STEM TEST REPORT

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

23-17s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Axman "A" Unit #2-24

Job Ticket: 19235

DST#: 1

ATTN: Rene Husted

Test Start: 2014.05.01 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "F" Zone**

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: 3280.00 ft (KB) To 3292.00 ft (KB) (TVD)

Reference Elevations: 1914.00 ft (KB)

Total Depth: 3292.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8525 Outside

Press@RunDepth: 44.06 psig @ 3289.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.05.01

End Date: 2014.05.01

Last Calib.: 2014.05.01

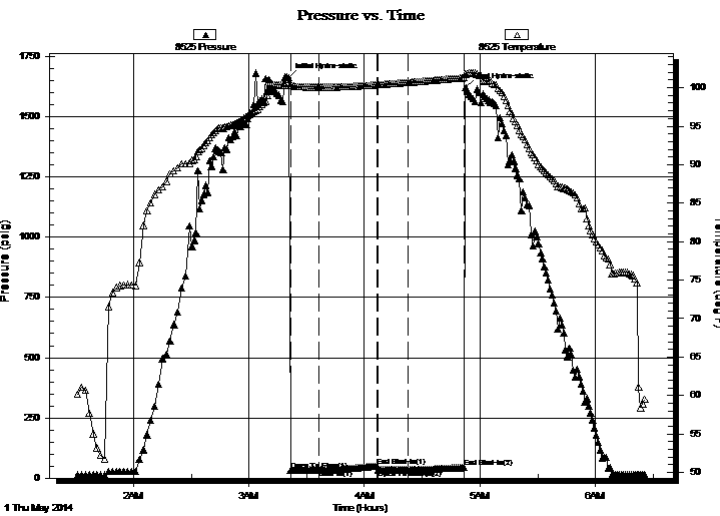
Start Time: 01:30:00

End Time: 06:26:00

Time On Btm: 2014.05.01 @ 03:20:30

Time Off Btm: 2014.05.01 @ 04:52:30

TEST COMMENT: 1st Opening 15 Minutes-Very weak surface blow for 2 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 (psig)	Temp (deg F)	Annotation
0	1661.43	100.66	Initial Hydro-static
1	33.16	100.26	Open To Flow (1)
16	34.39	100.06	Shut-In(1)
46	50.43	100.39	End Shut-In(1)
47	34.98	100.39	Open To Flow (2)
62	36.88	100.69	Shut-In(2)
91	44.06	101.30	End Shut-In(2)
92	1621.47	101.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Slightly oil spotted mud	0.01

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

23-17s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Axman "A" Unit #2-24

Job Ticket: 19235

DST#: 1

ATTN: Rene Husted

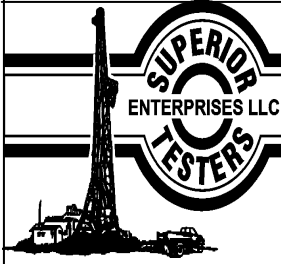
Test Start: 2014.05.01 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3280.00 ft	Diameter: 3.80 inches	Volume: 46.01 bbl	Tool Weight:	lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.76 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	58000.00 lb
			<u>Total Volume: 46.01 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3280.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	12.00 ft				
Tool Length:	40.00 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	
Jars	6.00			3268.00	
Safety Joint	2.00			3270.00	
Top Packer	5.00			3275.00	
Packer	5.00			3280.00	28.00 Bottom Of Top Packer
Anchor	7.00			3287.00	
Recorder	1.00	6666	Inside	3288.00	
Recorder	1.00	8525	Outside	3289.00	
Bull Plug	3.00			3292.00	12.00 Anchor Tool
Total Tool Length:	40.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

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

23-17s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Axman "A" Unit #2-24

Job Ticket: 19235

DST#: 1

ATTN: Rene Husted

Test Start: 2014.05.01 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 6.40 in³
Resistivity: ohm.m
Salinity: 3400.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Slightly oil spotted mud	0.014

Total Length: 1.00 ft Total Volume: 0.014 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6666

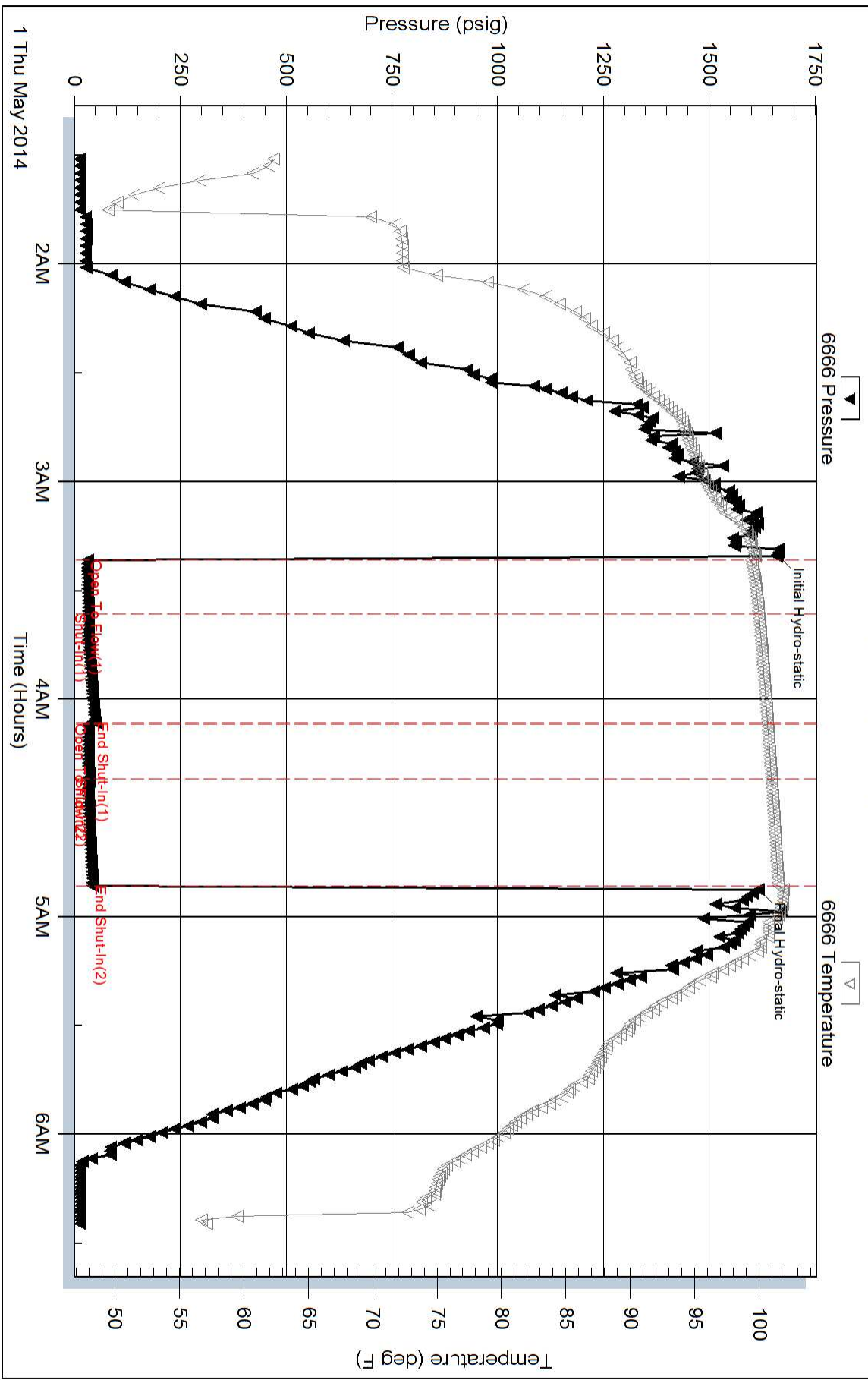
Inside

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

Axman "A" Unit #2-24

DST Test Number: 1

Pressure vs. Time

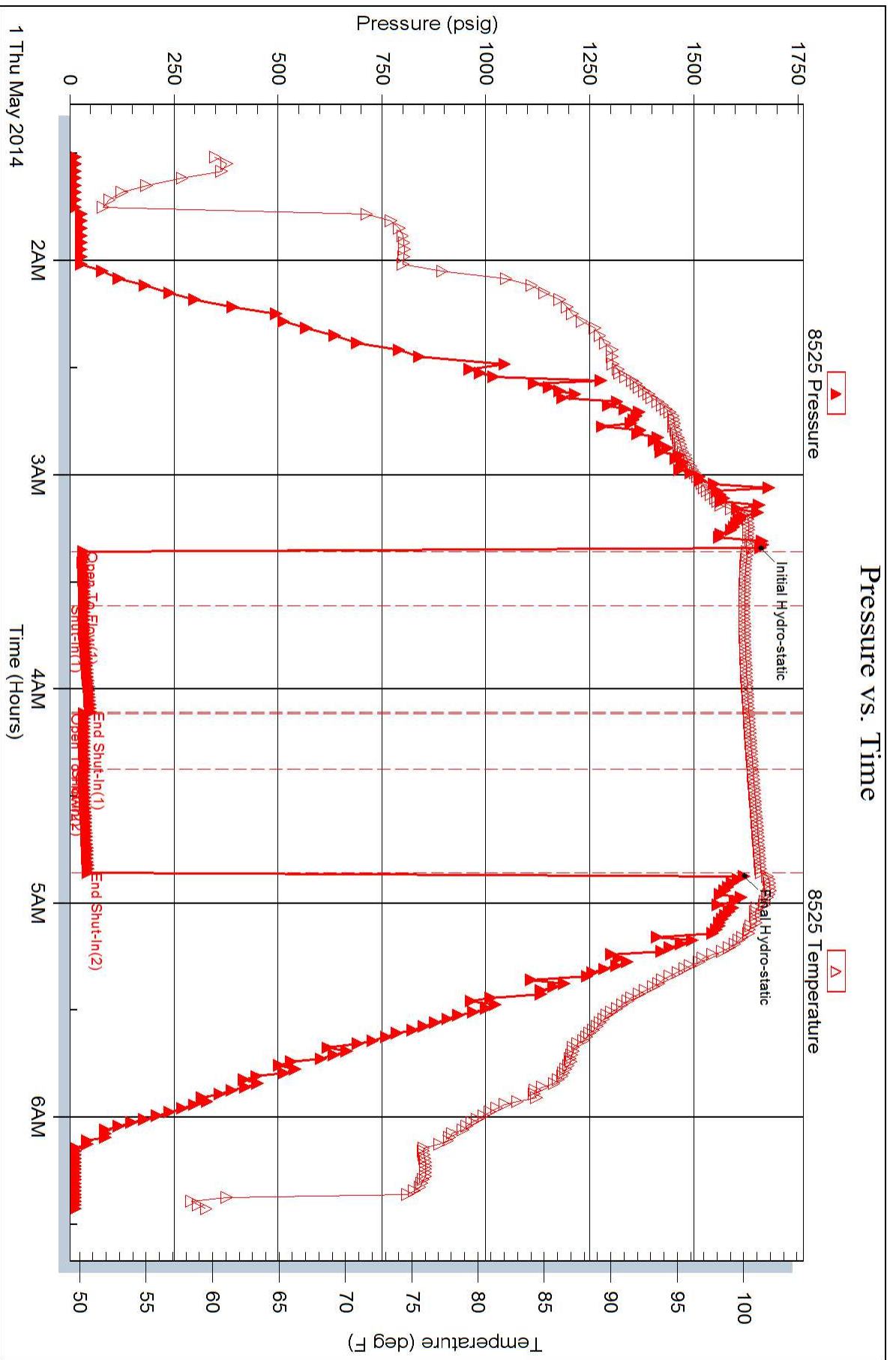


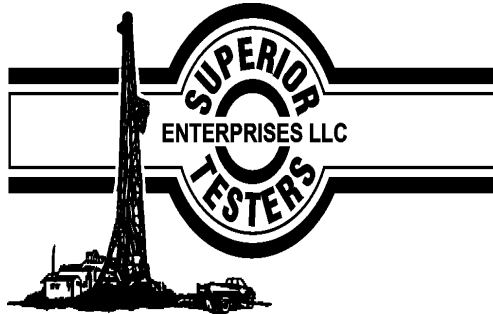
Serial #: 8525

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

Axman "A" Unit #2-24

DST Test Number: 1





DRILL STEM TEST REPORT

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

9431 Eastr Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Rene Husted

Axman "A" Unit #2-24

23-17s-15w Barton

Start Date: 2014.05.01 @ 00:00:00

End Date:

Job Ticket #: 19236

DST #: 2

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

Printed: 2014.05.01 @ 19:53:34



DRILL STEM TEST REPORT

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

23-17s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Axman "A" Unit #2-24

Job Ticket: 19236

DST#: 2

ATTN: Rene Husted

Test Start: 2014.05.01 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Bujdig

Unit No: 33353284

Interval: 3284.00 ft (KB) To 3317.00 ft (KB) (TVD)

Reference Elevations: 1914.00 ft (KB)

Total Depth: 3317.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 6666 Outside

Press@RunDepth: 601.76 psig @ 3314.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.05.01 End Date: 2014.05.01

Last Calib.: 2014.05.01

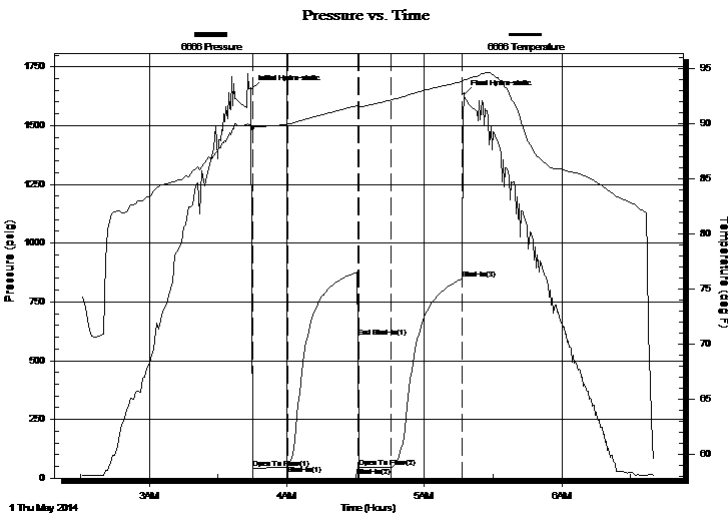
Start Time: 02:30:00 End Time: 06:40:30

Time On Btm: 2014.05.01 @ 03:44:30

Time Off Btm: 2014.05.01 @ 05:17:30

TEST COMMENT: 1st Open 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 (psig)	Temp (deg F)	Annotation
0	1653.59	89.95	Initial Hydro-static
1	42.75	89.34	Open To Flow (1)
16	54.67	90.00	Shut-In(1)
47	601.76	91.57	End Shut-In(1)
47	45.35	91.53	Open To Flow (2)
62	45.20	92.17	Shut-In(2)
92	848.34	93.84	Shut-In(3)
93	1633.32	93.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil Specked mud	0.07

Gas Rates

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



DRILL STEM TEST REPORT

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

23-17s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Axman "A" Unit #2-24

Job Ticket: 19236

DST#: 2

ATTN: Rene Husted

Test Start: 2014.05.01 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Bujdig

Unit No: 33353284

Interval: 3284.00 ft (KB) To 3317.00 ft (KB) (TVD)

Reference Elevations: 1914.00 ft (KB)

Total Depth: 3317.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8525 Inside

Press@RunDepth: 856.00 psig @ 3313.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.05.01 End Date: 2014.05.01

Last Calib.: 2014.05.01

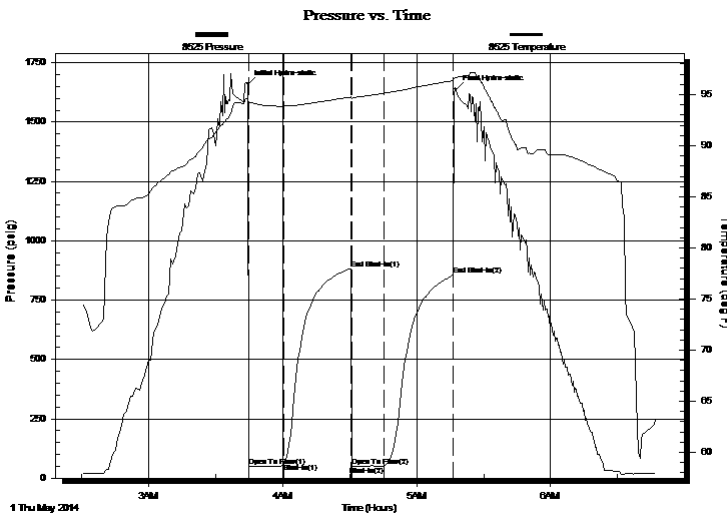
Start Time: 02:30:00 End Time: 06:47:00

Time On Btm: 2014.05.01 @ 03:44:30

Time Off Btm: 2014.05.01 @ 05:17:30

TEST COMMENT: 1st Open 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 (psig)	Temp (deg F)	Annotation
0	1659.03	94.53	Initial Hydro-static
1	48.36	94.11	Open To Flow (1)
16	61.67	93.88	Shut-In(1)
46	882.67	94.76	End Shut-In(1)
47	51.32	94.58	Open To Flow (2)
61	50.71	95.14	Shut-In(2)
92	856.00	96.38	End Shut-In(2)
93	1637.19	96.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil Specked mud	0.07

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

23-17s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Axman "A" Unit #2-24

Job Ticket: 19236

DST#: 2

ATTN: Rene Husted

Test Start: 2014.05.01 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3281.00 ft	Diameter: 3.80 inches	Volume: 46.02 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.76 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 46.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3284.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	61.00 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			3261.00	
Hydraulic Tool	5.00			3266.00	
Jars	6.00			3272.00	
Safety Joint	2.00			3274.00	
Top Packer	5.00			3279.00	
Packer	5.00			3284.00	28.00 Bottom Of Top Packer
Anchor	28.00			3312.00	
Recorder	1.00	8525	Inside	3313.00	
Recorder	1.00	6666	Outside	3314.00	
Bull Plug	3.00			3317.00	33.00 Anchor Tool
Total Tool Length:	61.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

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

23-17s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Axman "A" Unit #2-24

Job Ticket: 19236

DST#: 2

ATTN: Rene Husted

Test Start: 2014.05.01 @ 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: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	Oil Specked mud	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

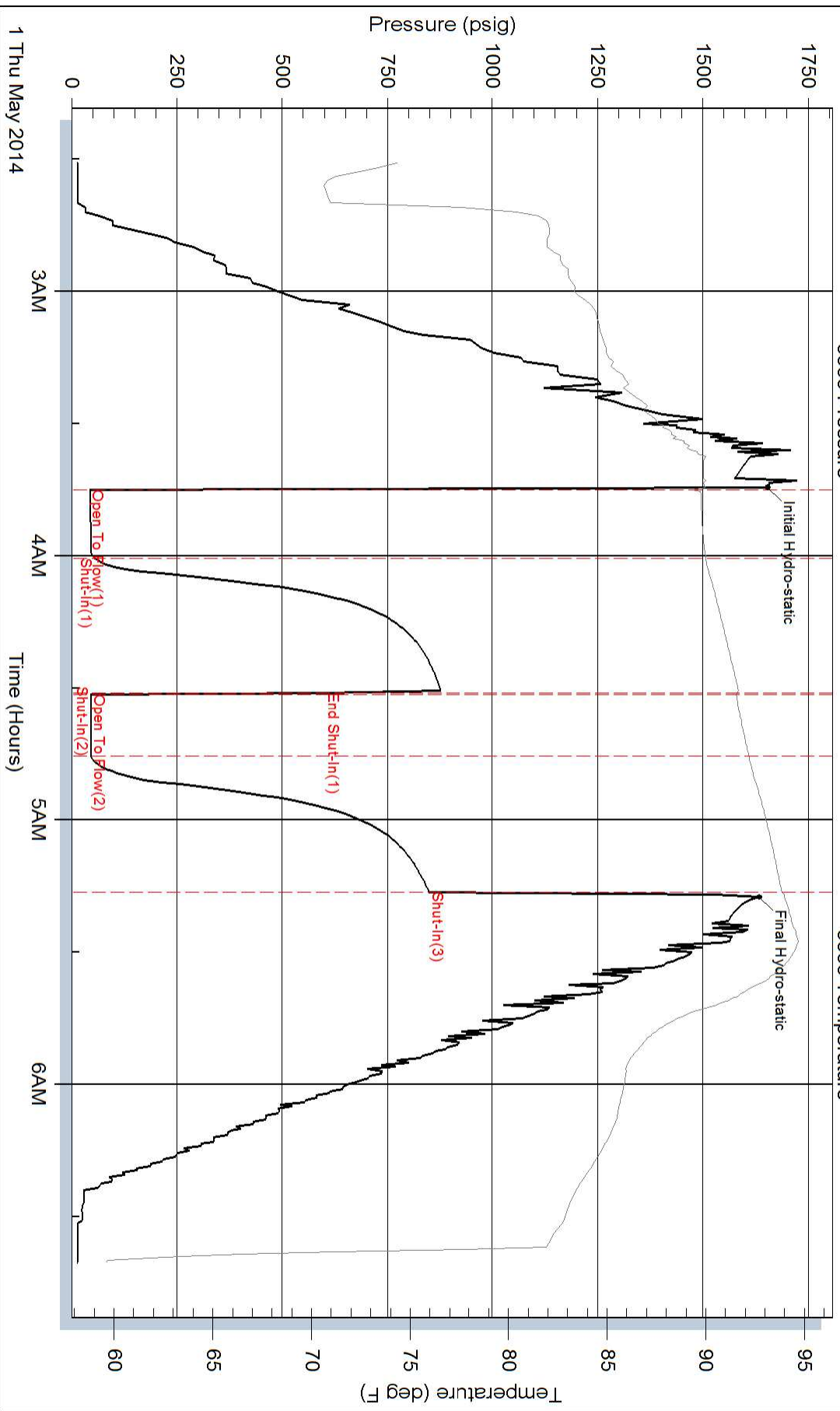
Serial #: 6666

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

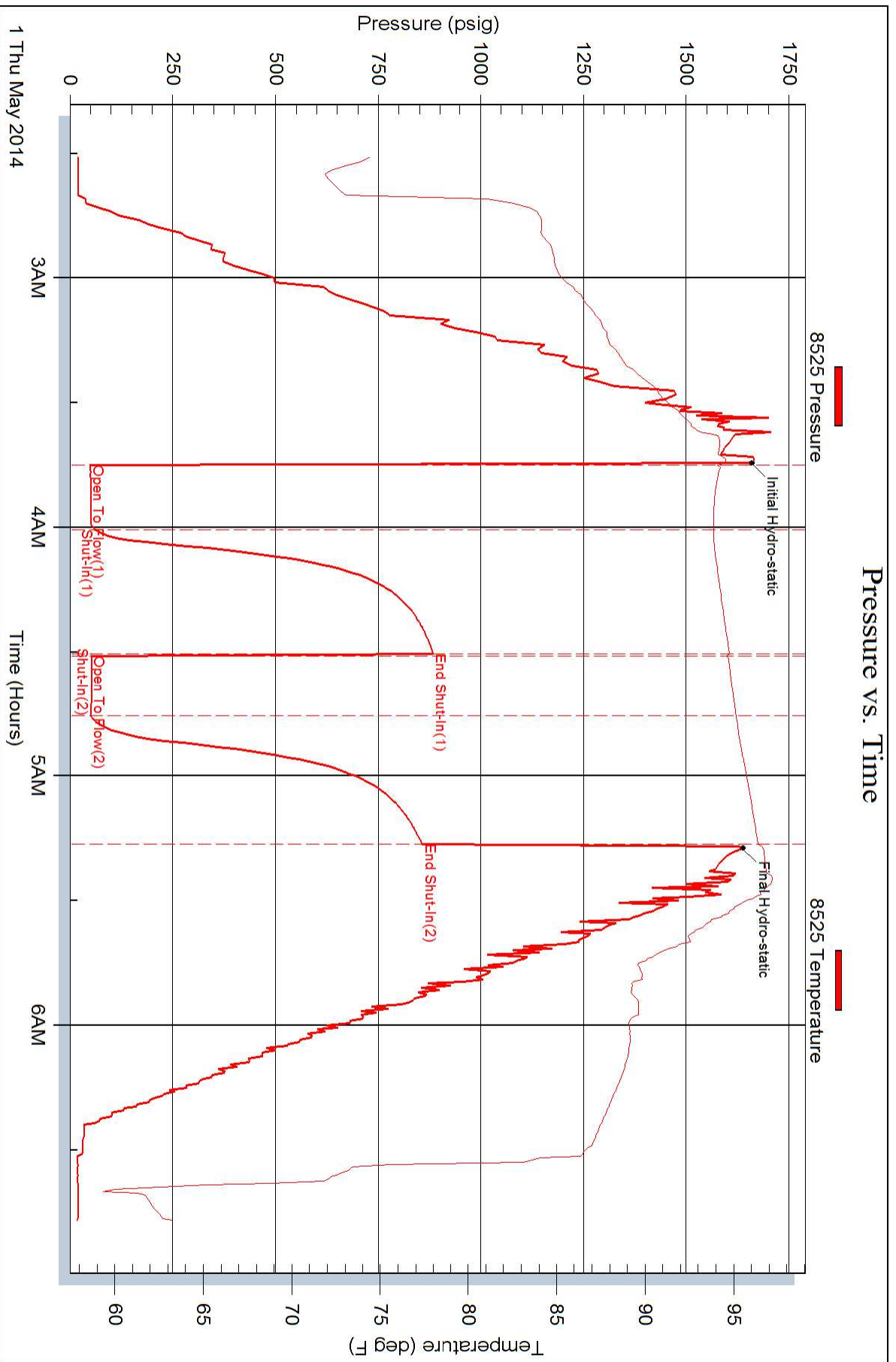
Axman "A" Unit #2-24

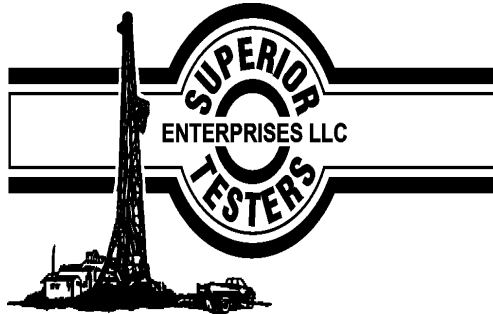
DST Test Number: 2

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 Eastr Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Rene Husted

Axman "A" Unit #2-24

23-17s-15w Barton

Start Date: 2014.05.02 @ 00:00:00

End Date:

Job Ticket #: 19237

DST #: 3

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

Printed: 2014.05.02 @ 11:58:06



DRILL STEM TEST REPORT

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

23-17s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Axman "A" Unit #2-24

Job Ticket: 19237

DST#: 3

ATTN: Rene Husted

Test Start: 2014.05.02 @ 00:00:00

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335

Interval: 3332.00 ft (KB) To 3376.00 ft (KB) (TVD)

Reference Elevations: 1914.00 ft (KB)

Total Depth: 3376.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8525 Outside

Press@RunDepth: 70.32 psig @ 3373.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.05.02 End Date: 2014.05.02

Last Calib.: 2014.05.02

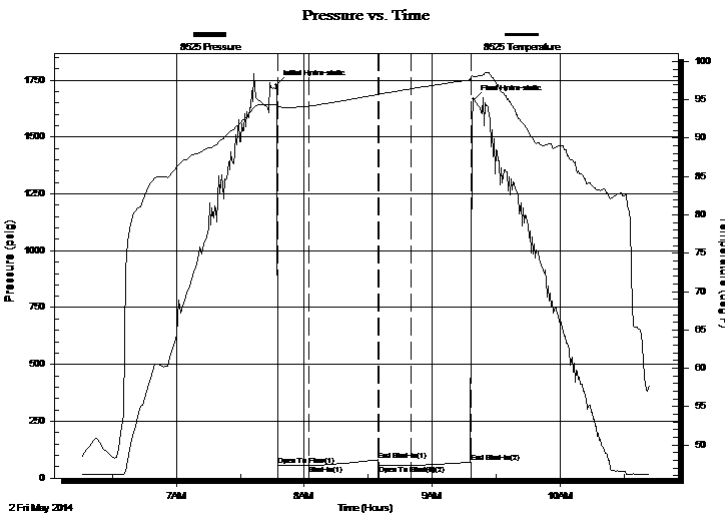
Start Time: 06:15:00 End Time: 10:42:00

Time On Btm: 2014.05.02 @ 07:47:00

Time Off Btm: 2014.05.02 @ 09:19:30

TEST COMMENT: 1st Opening 15 Minutes weak intermittant blow through out
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 (psig)	Temp (deg F)	Annotation
0	1729.81	94.36	Initial Hydro-static
1	54.47	94.10	Open To Flow (1)
15	55.99	94.18	Shut-In(1)
48	80.56	95.70	End Shut-In(1)
48	55.73	95.73	Open To Flow (2)
63	55.58	96.43	Shut-In(2)
91	70.32	97.61	End Shut-In(2)
93	1665.27	97.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud very few specks of oil	0.01

Gas Rates

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



DRILL STEM TEST REPORT

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

23-17s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Axman "A" Unit #2-24

Job Ticket: 19237

DST#: 3

ATTN: Rene Husted

Test Start: 2014.05.02 @ 00:00:00

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335

Interval: 3332.00 ft (KB) To 3376.00 ft (KB) (TVD)

Reference Elevations: 1914.00 ft (KB)

Total Depth: 3376.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6666

Inside

Press@RunDepth: 63.12 psig @ 3372.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.05.02 End Date: 2014.05.02

Last Calib.: 2014.05.02

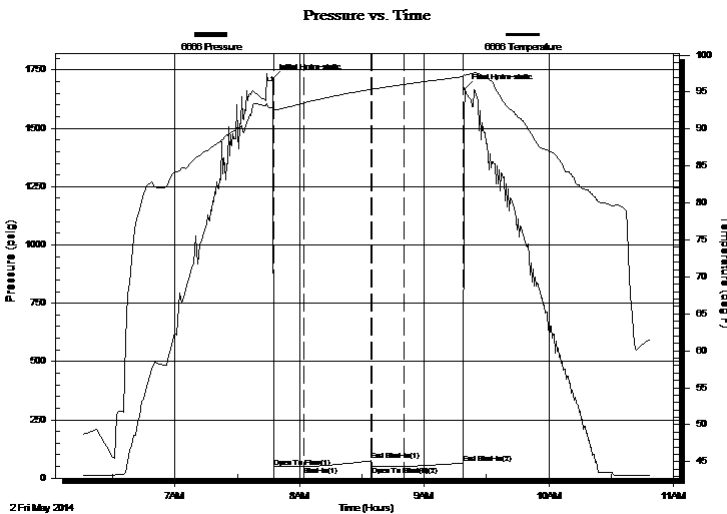
Start Time: 06:15:00 End Time: 10:49:00

Time On Btm: 2014.05.02 @ 07:47:00

Time Off Btm: 2014.05.02 @ 09:19:30

TEST COMMENT: 1st Opening 15 Minutes weak intermittant blow through out
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 (psig)	Temp (deg F)	Annotation
0	1714.94	92.90	Initial Hydro-static
1	47.90	92.56	Open To Flow (1)
15	49.94	93.53	Shut-In(1)
48	74.72	95.37	End Shut-In(1)
48	49.04	95.38	Open To Flow (2)
63	49.50	96.03	Shut-In(2)
92	63.12	97.06	End Shut-In(2)
93	1668.85	97.30	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
1.00	mud very few specks of oil	0.01

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

23-17s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Axman "A" Unit #2-24

Job Ticket: 19237

DST#: 3

ATTN: Rene Husted

Test Start: 2014.05.02 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3312.00 ft	Diameter: 3.80 inches	Volume: 46.46 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: 62000.00 lb
			<u>Total Volume: 46.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3332.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	72.00 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			3309.00	
Hydraulic Tool	5.00			3314.00	
Jars	6.00			3320.00	
Safety Joint	2.00			3322.00	
Top Packer	5.00			3327.00	
Packer	5.00			3332.00	28.00 Bottom Of Top Packer
Anchor	39.00			3371.00	
Recorder	1.00	6666	Inside	3372.00	
Recorder	1.00	8525	Outside	3373.00	
Bull Plug	3.00			3376.00	44.00 Anchor Tool
Total Tool Length:	72.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

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

23-17s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Axman "A" Unit #2-24

Job Ticket: 19237

DST#: 3

ATTN: Rene Husted

Test Start: 2014.05.02 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 66.00 sec/qt

Water Loss: 7.20 in³

Resistivity: ohm.m

Salinity: 4100.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud very few specks of oil	0.014

Total Length: 1.00 ft Total Volume: 0.014 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

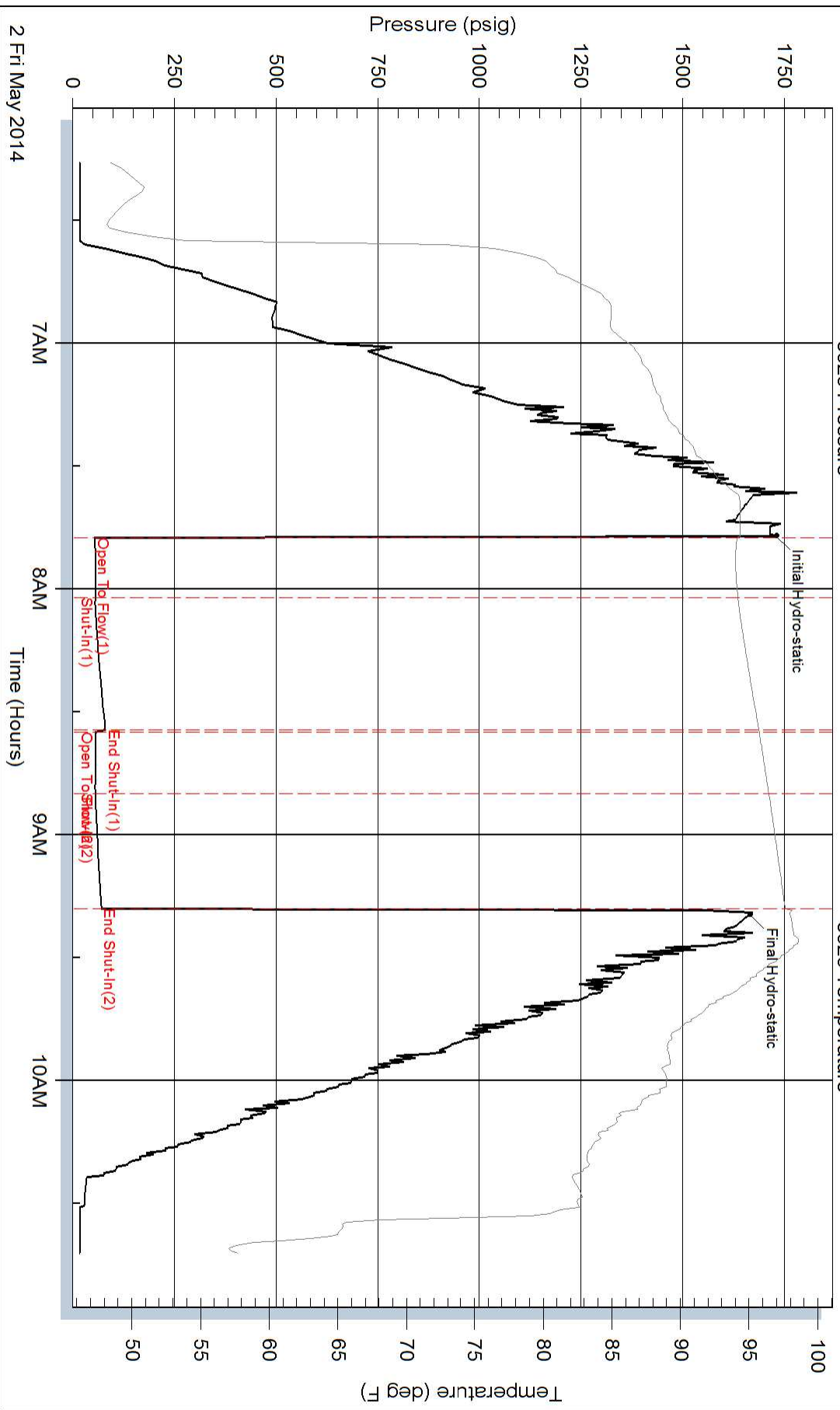
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Outside F.G.Holl Company L.L.C.

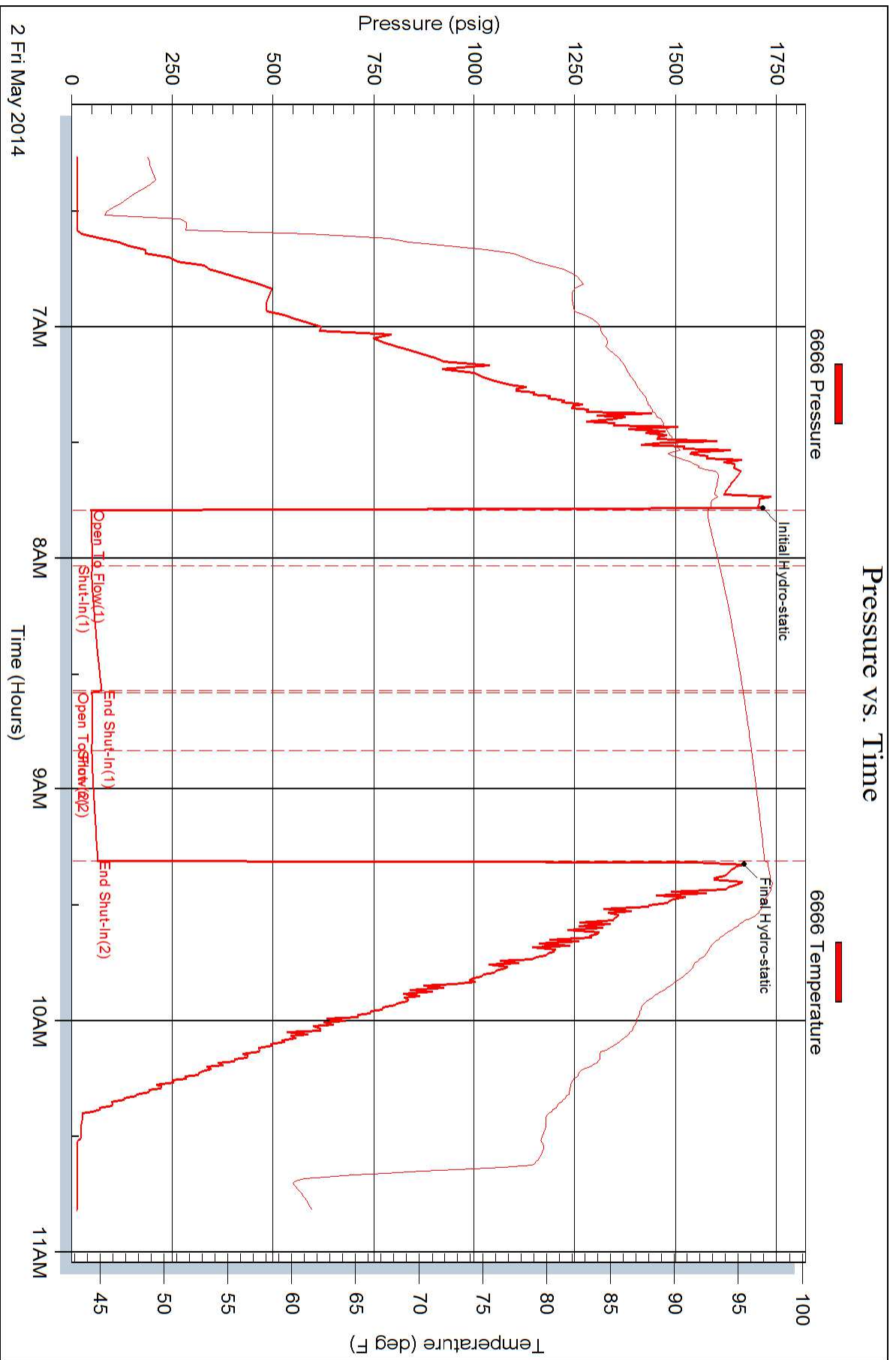
Axman "A" Unit #2-24

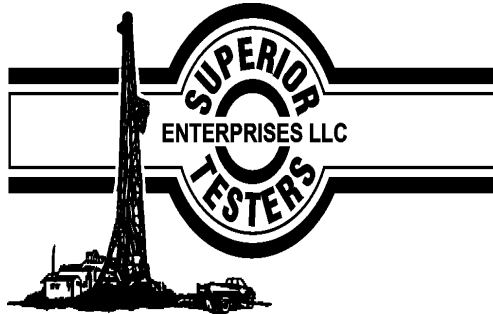
DST Test Number: 3

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 Eastr Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Rene Husted

Axman "A" Unit #2-24

23-17s-15w Barton

Start Date: 2014.05.03 @ 00:00:00

End Date:

Job Ticket #: 19238

DST #: 4

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

Printed: 2014.05.03 @ 02:43:51



DRILL STEM TEST REPORT

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

23-17s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Axman "A" Unit #2-24

Job Ticket: 19238

DST#: 4

ATTN: Rene Husted

Test Start: 2014.05.03 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "J-K &**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335

Interval: 3374.00 ft (KB) To 3432.00 ft (KB) (TVD)

Reference Elevations: 1914.00 ft (KB)

Total Depth: 3432.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8525 Outside

Press@RunDepth: 69.23 psig @ 3424.92 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.05.03 End Date: 2014.05.03

Last Calib.: 2014.05.03

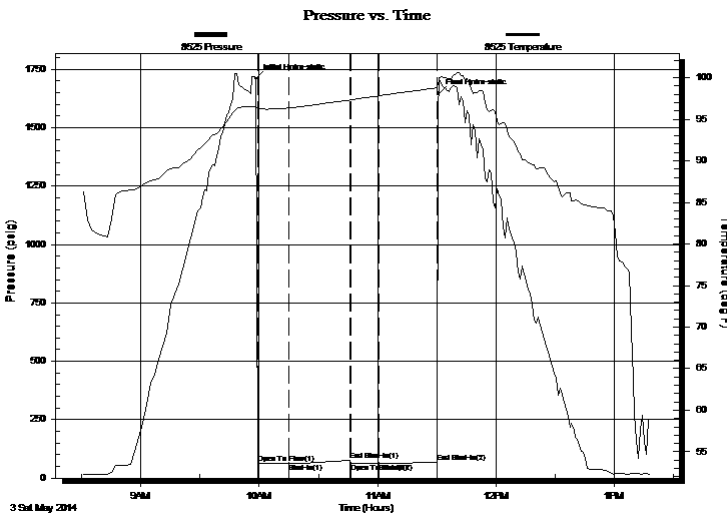
Start Time: 08:30:00 End Time: 13:19:00

Time On Btm: 2014.05.03 @ 09:58:30

Time Off Btm: 2014.05.03 @ 11:31:00

TEST COMMENT: 1st Opening 15 Minutes Weak blow mfor 3 mminutes and died
1st Shut-In 30 Minutes no blow back
2nd Opening 15 Minutes-No blow
2nd Shut-In 30 Minutes No blow b ack

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1709.65	96.54	Initial Hydro-static
1	61.48	96.26	Open To Flow (1)
17	62.24	96.35	Shut-In(1)
48	76.03	97.32	End Shut-In(1)
48	62.01	97.33	Open To Flow (2)
62	62.42	97.81	Shut-In(2)
92	69.23	98.77	End Shut-In(2)
93	1645.75	99.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	drilling mud	0.01

Gas Rates

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



DRILL STEM TEST REPORT

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

23-17s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Axman "A" Unit #2-24

Job Ticket: 19238

DST#: 4

ATTN: Rene Husted

Test Start: 2014.05.03 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "J-K &**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335

Interval: 3374.00 ft (KB) To 3432.00 ft (KB) (TVD)

Reference Elevations: 1914.00 ft (KB)

Total Depth: 3432.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6666 Inside

Press@RunDepth: 63.28 psig @ 3423.92 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.05.03

End Date: 2014.05.03

Last Calib.: 2014.05.03

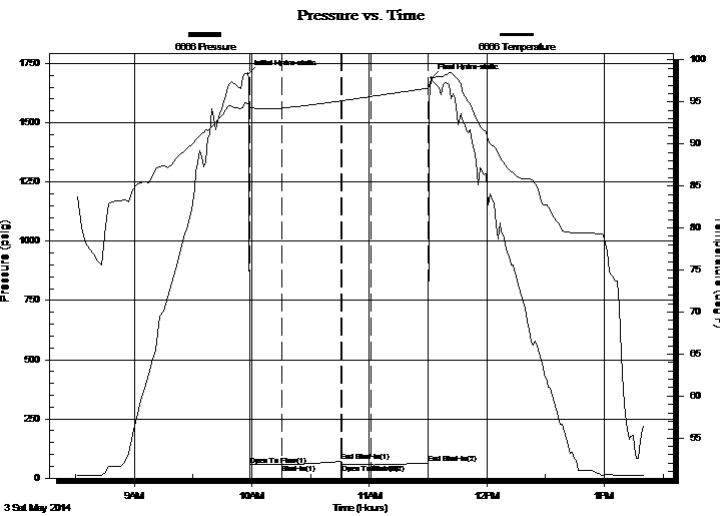
Start Time: 08:30:00

End Time: 13:20:30

Time On Btm: 2014.05.03 @ 09:58:00

Time Off Btm: 2014.05.03 @ 11:31:30

TEST COMMENT: 1st Opening 15 Minutes Weak blow mfor 3 mminutes and died
1st Shut-In 30 Minutes no blow back
2nd Opening 15 Minutes-No blow
2nd Shut-In 30 Minutes No blow b ack



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1704.05	94.76	Initial Hydro-static
1	55.75	94.30	Open To Flow (1)
18	56.70	94.28	Shut-In(1)
48	70.05	95.13	End Shut-In(1)
48	56.26	95.14	Open To Flow (2)
63	56.71	95.65	Shut-In(2)
92	63.28	96.64	End Shut-In(2)
94	1687.68	97.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	drilling mud	0.01

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

23-17s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Axman "A" Unit #2-24

Job Ticket: 19238

DST#: 4

ATTN: Rene Husted

Test Start: 2014.05.03 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3374.00 ft	Diameter: 3.80 inches	Volume: 47.33 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: 68000.00 lb
			Total Volume: 47.33 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3374.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.92 ft			
Tool Length:	81.92 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			3351.00	
Hydraulic Tool	5.00			3356.00	
Jars	6.00			3362.00	
Safety Joint	2.00			3364.00	
Top Packer	5.00			3369.00	
Packer	5.00			3374.00	28.00 Bottom Of Top Packer
Anchor	6.00			3380.00	
Change Over Sub	0.75			3380.75	
Drill Pipe	31.42			3412.17	
Change Over Sub	0.75			3412.92	
Anchor	10.00			3422.92	
Recorder	1.00	6666	Inside	3423.92	
Recorder	1.00	8525	Outside	3424.92	
Bull Plug	3.00			3427.92	53.92 Anchor Tool

Total Tool Length: 81.92



DRILL STEM TEST REPORT

FLUID SUMMARY

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

23-17s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Axman "A" Unit #2-24

Job Ticket: 19238

DST#: 4

ATTN: Rene Husted

Test Start: 2014.05.03 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 55.00 sec/qt
Water Loss: 9.60 in³
Resistivity: ohm.m
Salinity: 7300.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	drilling mud	0.014

Total Length: 1.00 ft Total Volume: 0.014 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

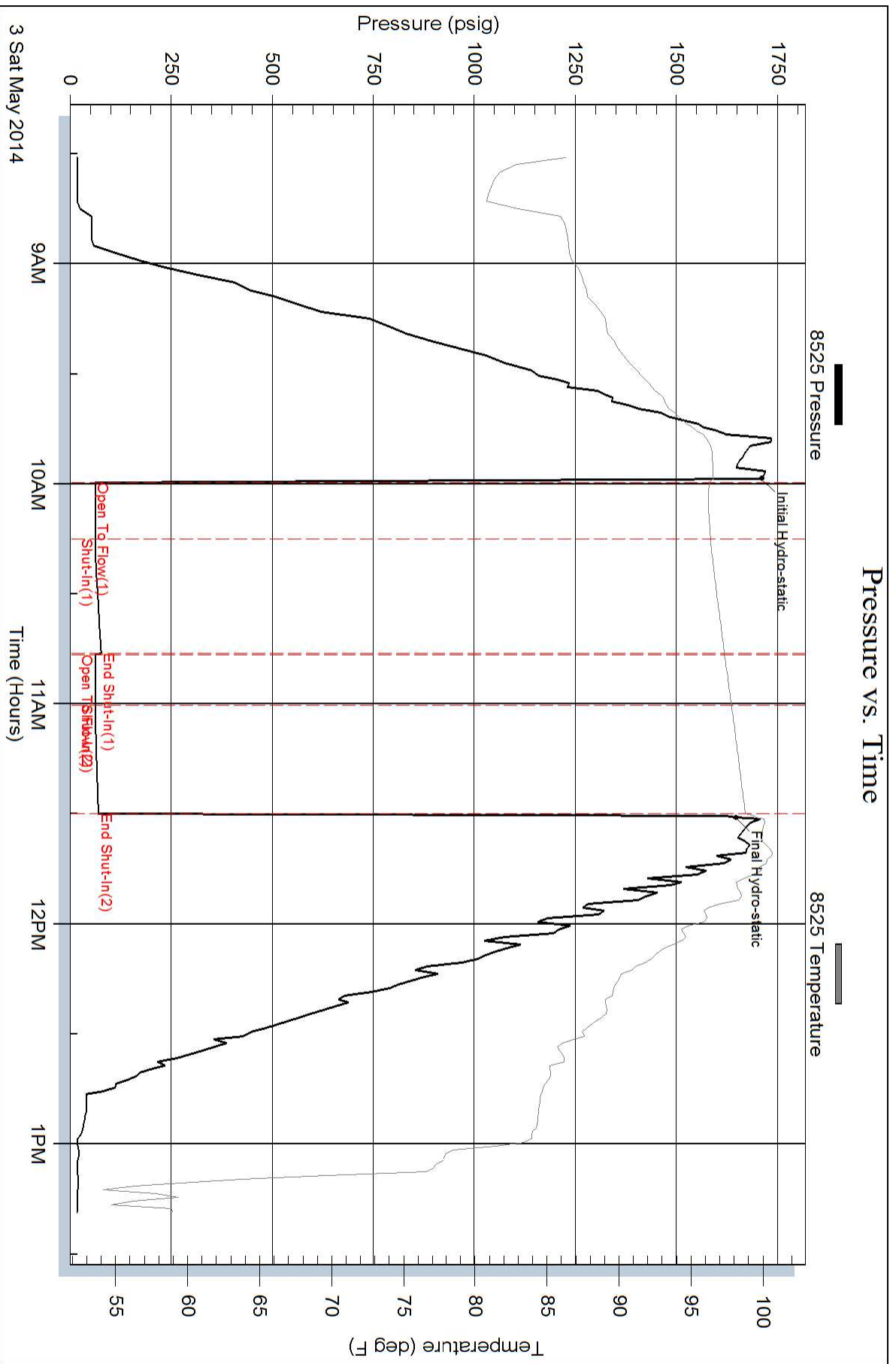
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Serial #: 6666

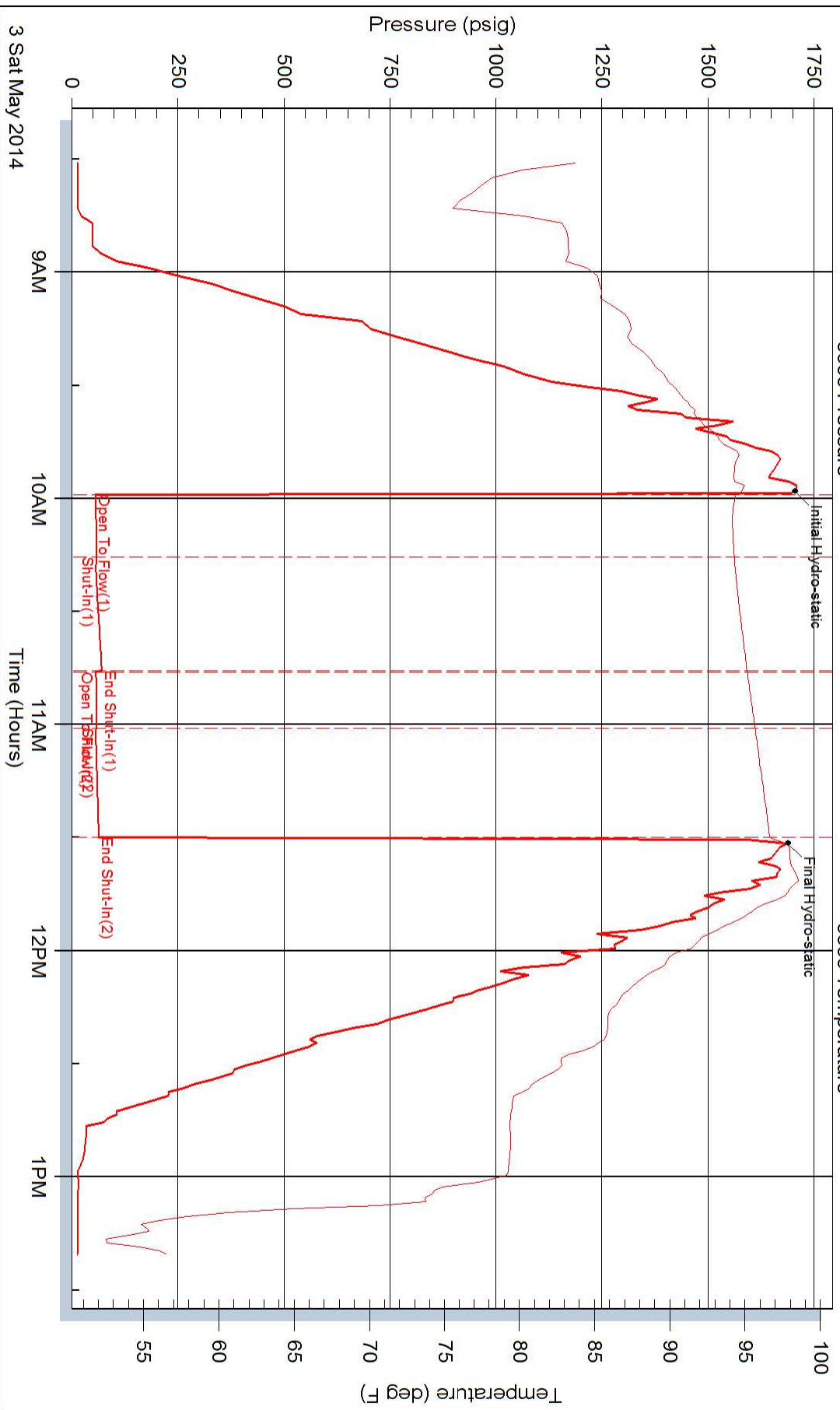
Inside

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

Axman "A" Unit #2-24

DST Test Number: 4

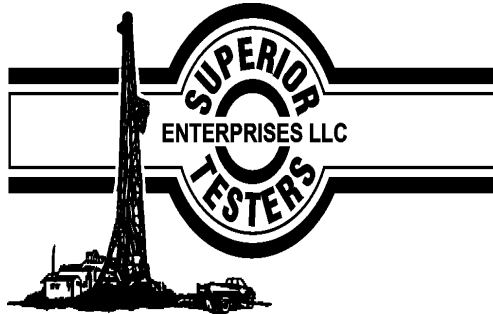
Pressure vs. Time



Superior Testers Enterprises LLC

Ref. No: 19238

Printed: 2014.05.03 @ 02:43:51



DRILL STEM TEST REPORT

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

9431 Eastr Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Rene Husted

Axman "A" Unit #2-24

23-17s-15w Barton

Start Date: 2014.05.03 @ 00:00:00

End Date: 2014.05.03 @ 00:00:00

Job Ticket #: 19239 DST #: 5

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

Printed: 2014.05.03 @ 17:15:25



DRILL STEM TEST REPORT

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

23-17s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Axman "A" Unit #2-24

Job Ticket: 19239

DST#: 5

ATTN: Rene Husted

Test Start: 2014.05.03 @ 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: 3429.00 ft (KB) To 3475.00 ft (KB) (TVD)

Reference Elevations: 1914.00 ft (KB)

Total Depth: 3475.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6666

Inside

Press@RunDepth: 241.18 psig @ 3471.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.05.03

End Date: 2014.05.03

Last Calib.: 2014.05.03

Start Time: 09:30:00

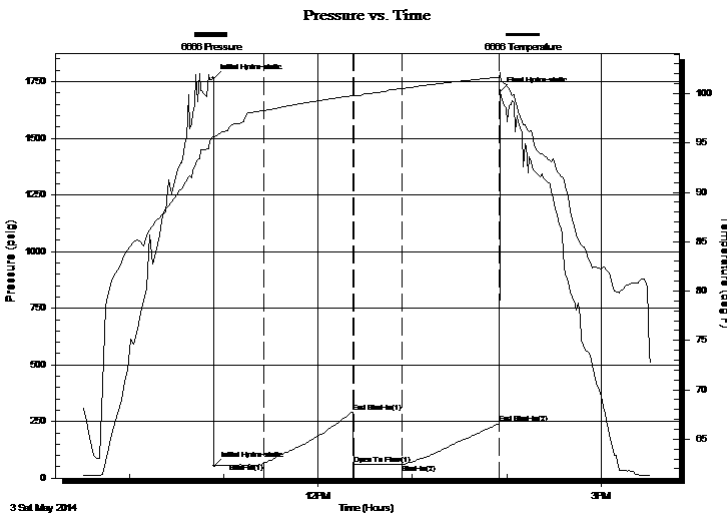
End Time: 15:32:00

Time On Btm: 2014.05.03 @ 10:53:30

Time Off Btm: 2014.05.03 @ 13:56:00

TEST COMMENT: 1st Opening 30 Minutes-Weak blow decreased to weak intermittent
1st Shut-In 60 Minutes-No blow back
2nd Opening 30 Minutes-Weak intermittent blow for 9 Minutes and died
2nd Shut-In 60 Minutes-No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1765.56	95.71	Initial Hydro-static
1	53.23	95.52	Initial Hydro-static
32	63.63	98.28	Shut-In(1)
89	289.14	99.81	End Shut-In(1)
90	59.46	99.75	Open To Flow (1)
120	61.34	100.50	Shut-In(2)
182	241.18	101.67	End Shut-In(2)
183	1708.13	101.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	DRILLING MUD	0.35

Gas Rates

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



DRILL STEM TEST REPORT

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

23-17s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Axman "A" Unit #2-24

Job Ticket: 19239

DST#: 5

ATTN: Rene Husted

Test Start: 2014.05.03 @ 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: 3429.00 ft (KB) To 3475.00 ft (KB) (TVD)

Reference Elevations: 1914.00 ft (KB)

Total Depth: 3475.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8525 Outside

Press@RunDepth: 247.61 psig @ 3472.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.05.03

End Date: 2014.05.03

Last Calib.: 2014.05.03

Start Time: 09:30:00

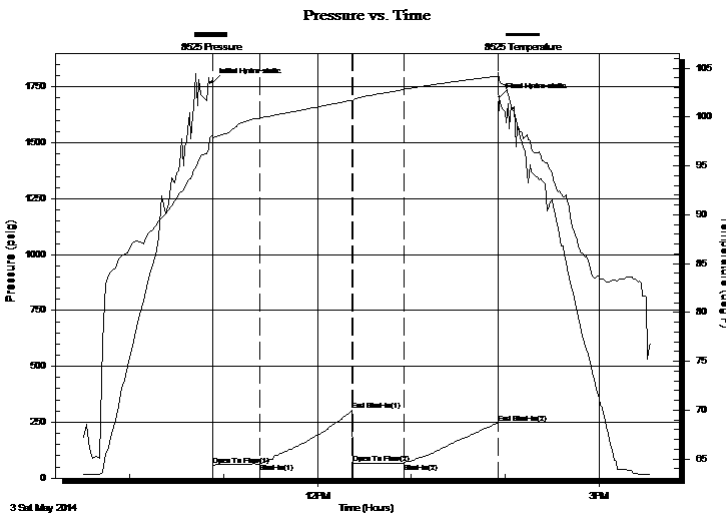
End Time: 15:32:30

Time On Btm: 2014.05.03 @ 10:53:00

Time Off Btm: 2014.05.03 @ 13:56:00

TEST COMMENT: 1st Opening 30 Minutes-Weak blow decreased to weak intermittent
 1st Shut-In 60 Minutes-No blow back
 2nd Opening 30 Minutes-Weak intermittent blow for 9 Minutes and died
 2nd Shut-In 60 Minutes-No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1770.11	98.14	Initial Hydro-static
1	57.96	97.82	Open To Flow (1)
31	64.33	99.92	Shut-In(1)
89	302.54	101.72	End Shut-In(1)
90	64.81	101.73	Open To Flow (2)
123	65.89	102.83	Shut-In(2)
182	247.61	104.20	End Shut-In(2)
183	1703.93	103.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	DRILLING MUD	0.35

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

23-17s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Axman "A" Unit #2-24

Job Ticket: 19239

DST#: 5

ATTN: Rene Husted

Test Start: 2014.05.03 @ 00:00:00

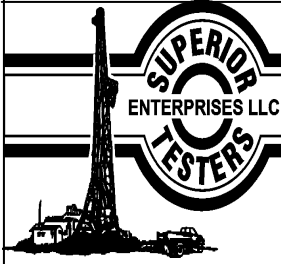
Tool Information

Drill Pipe:	Length: 3406.00 ft	Diameter: 3.80 inches	Volume: 47.78 bbl	Tool Weight:	lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer:	lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 47.78 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	lb
Depth to Top Packer:	3429.00 ft			Final	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
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Shut-In Tool	5.00			3406.00	
Hydraulic Tool	5.00			3411.00	
Jars	6.00			3417.00	
Safety Joint	2.00			3419.00	
Top Packer	5.00			3424.00	
Packer	5.00			3429.00	28.00 Bottom Of Top Packer
Anchor	41.00			3470.00	
Recorder	1.00	6666	Inside	3471.00	
Recorder	1.00	8525	Outside	3472.00	
Bull Plug	3.00			3475.00	46.00 Anchor Tool
Total Tool Length:	74.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

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

23-17s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Axman "A" Unit #2-24

Job Ticket: 19239

DST#: 5

ATTN: Rene Husted

Test Start: 2014.05.03 @ 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: 7300.00 ppm
Filter Cake: 0.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	DRILLING MUD	0.351

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0

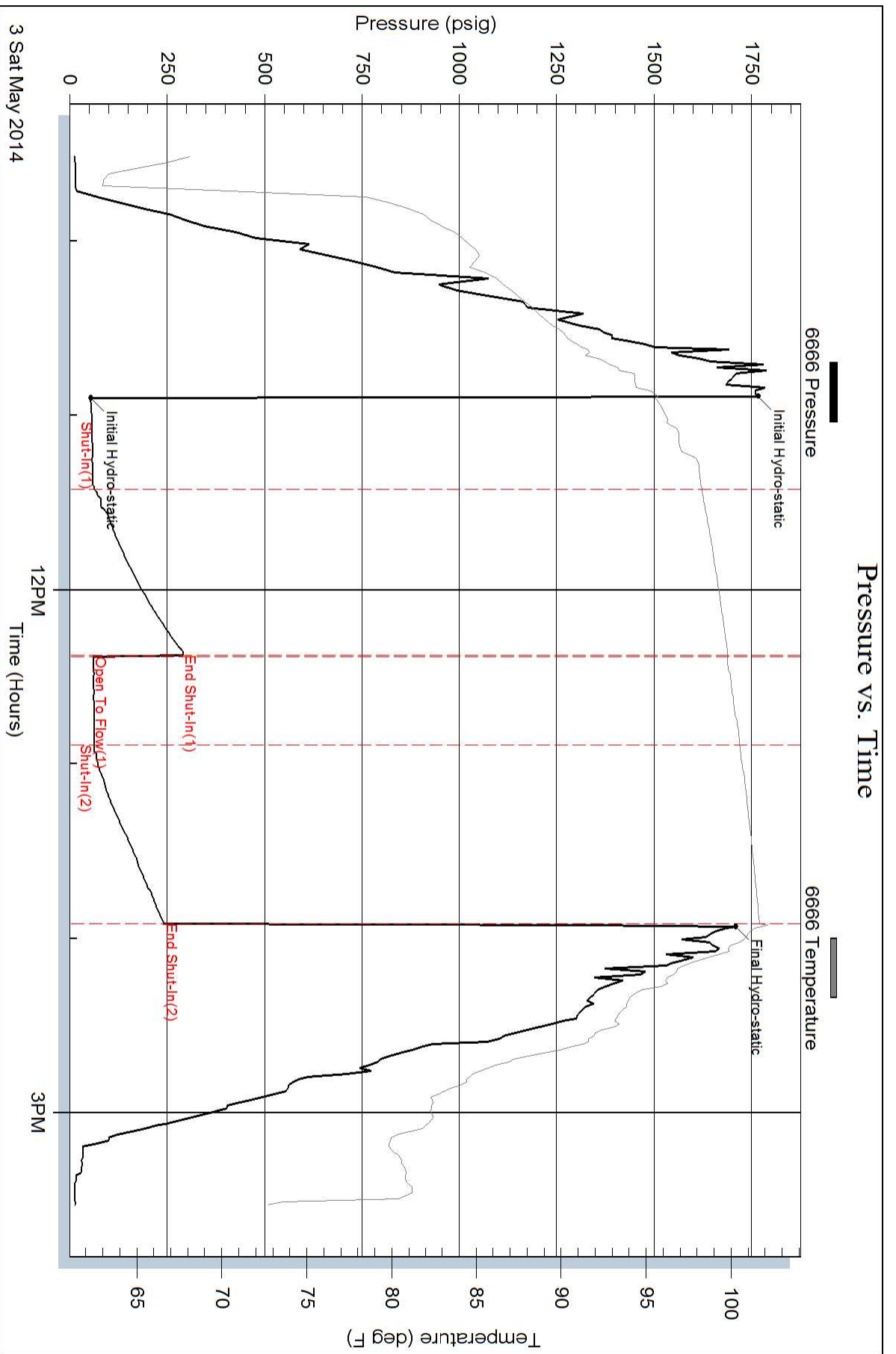
Num Gas Bombs: 0

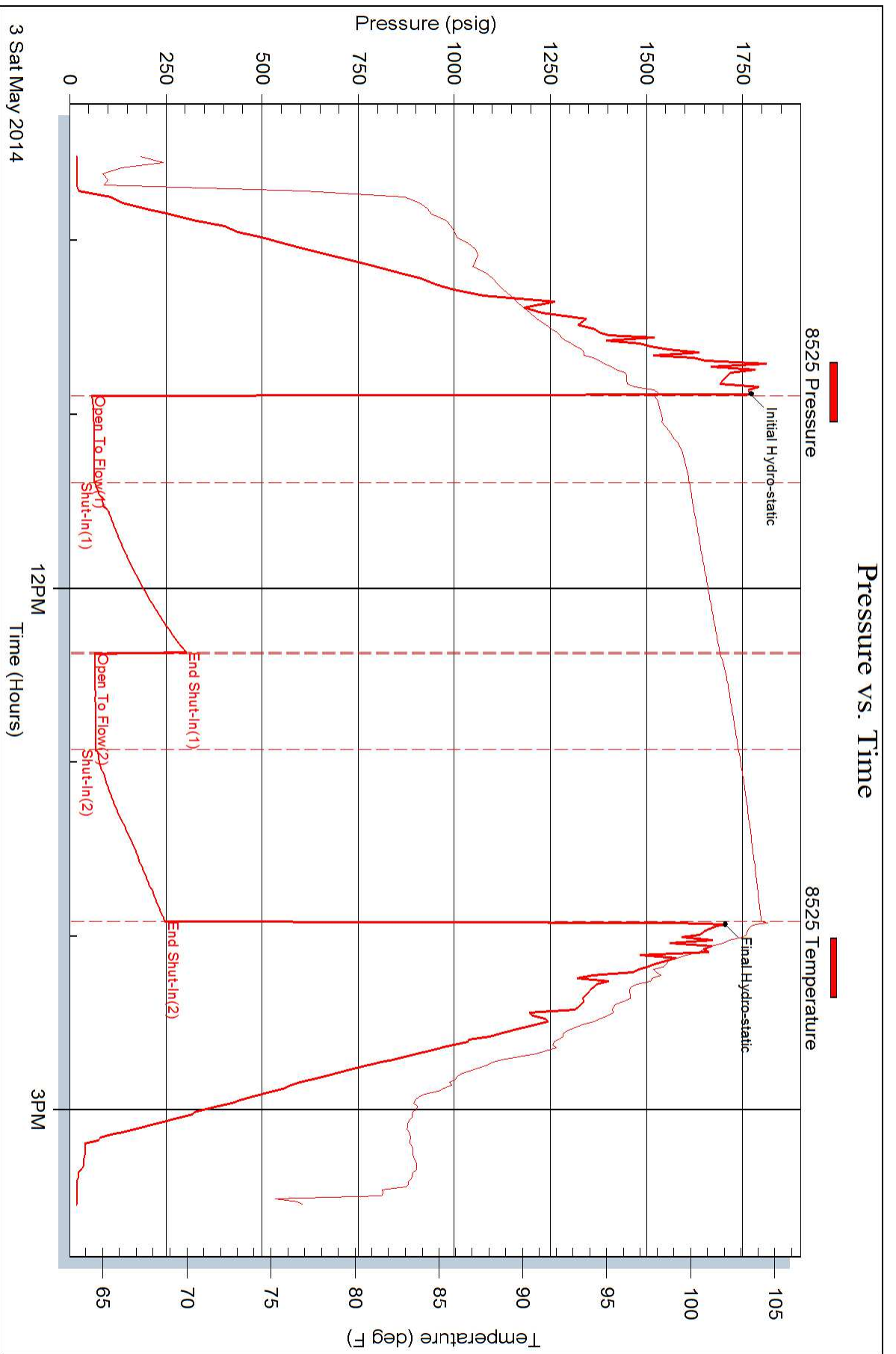
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

9431 Eastr Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Rene Husted

Axman "A" Unit #2-24

23-17s-15w Barton

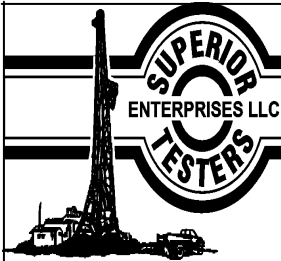
Start Date: 2014.05.04 @ 00:00:00

End Date: 2014.05.04 @ 00:00:00

Job Ticket #: 19240 DST #: 6

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

Printed: 2014.05.04 @ 08:04:27



DRILL STEM TEST REPORT

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

23-17s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Axman "A" Unit #2-24

Job Ticket: 19240

DST#: 6

ATTN: Rene Husted

Test Start: 2014.05.04 @ 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 Byudig

Unit No: 3335

Interval: 3474.00 ft (KB) To 3485.00 ft (KB) (TVD)

Reference Elevations: 1914.00 ft (KB)

Total Depth: 3485.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8525 Outside

Press@RunDepth: 1073.10 psig @ 3482.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.05.04

End Date: 2014.05.04

Last Calib.: 2014.05.04

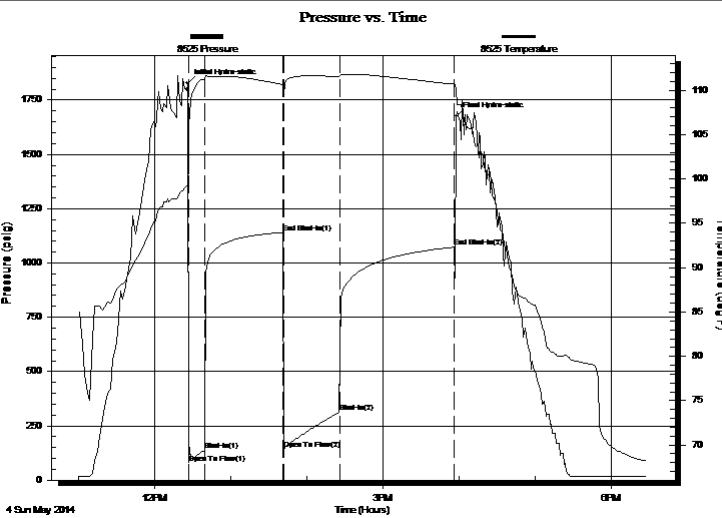
Start Time: 11:00:00

End Time: 18:28:00

Time On Btm: 2014.05.04 @ 12:26:00

Time Off Btm: 2014.05.04 @ 15:57:30

TEST COMMENT: 1st Opening 15 Minutes Fair b low built to the Bottom of a 5 gallon bucket in 9 minutes
 1st Shut-In 60 Minutes-Weak surface blow back
 2nd Opening 45 Minutes-Fair blow built to the bottom of a 5 gallon bucketg in 6 minutes
 2nd Shut-In 90 Minutes-Weak blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1827.53	99.24	Initial Hydro-static
1	79.81	106.06	Open To Flow (1)
14	138.12	111.34	Shut-In(1)
75	1140.44	110.66	End Shut-In(1)
76	140.66	109.53	Open To Flow (2)
120	312.89	111.55	Shut-In(2)
210	1073.10	110.70	End Shut-In(2)
212	1674.03	110.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Drilling Mud	0.35
540.00	Water	7.57

Gas Rates

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



DRILL STEM TEST REPORT

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

23-17s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Axman "A" Unit #2-24

Job Ticket: 19240

DST#: 6

ATTN: Rene Husted

Test Start: 2014.05.04 @ 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 Byudig

Unit No: 3335

Interval: 3474.00 ft (KB) To 3485.00 ft (KB) (TVD)

Reference Elevations: 1914.00 ft (KB)

Total Depth: 3485.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6666

Inside

Press@RunDepth: 1066.17 psig @ 3481.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.05.04

End Date: 2014.05.04

Last Calib.: 2014.05.04

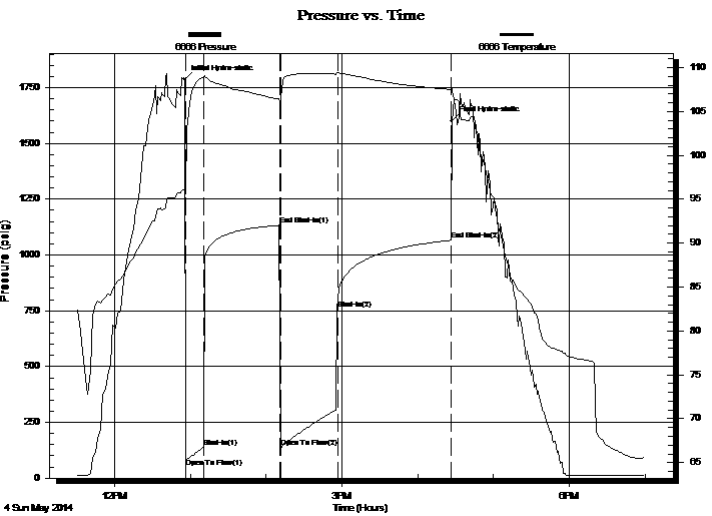
Start Time: 11:30:00

End Time: 18:59:30

Time On Btm: 2014.05.04 @ 12:55:30

Time Off Btm: 2014.05.04 @ 16:27:00

TEST COMMENT: 1st Opening 15 Minutes Fair b low built to the Bottom of a 5 gallon bucket in 9 minutes
 1st Shut-In 60 Minutes-Weak surface blow back
 2nd Opening 45 Minutes-Fair blow built to the bottom of a 5 gallon bucketg in 6 minutes
 2nd Shut-In 90 Minutes-Weak blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1785.94	96.06	Initial Hydro-static
1	50.44	95.59	Open To Flow (1)
15	137.26	108.87	Shut-In(1)
75	1133.03	106.41	End Shut-In(1)
77	136.66	106.61	Open To Flow (2)
122	757.62	109.45	Shut-In(2)
211	1066.17	107.50	End Shut-In(2)
212	1600.52	107.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Drilling Mud	0.35
540.00	Water	7.57

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

23-17s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Axman "A" Unit #2-24

Job Ticket: 19240

DST#: 6

ATTN: Rene Husted

Test Start: 2014.05.04 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3468.00 ft	Diameter: 3.80 inches	Volume: 48.65 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: 69000.00 lb
			<u>Total Volume: 48.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3474.00 ft			Final 51000.00 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			3451.00	
Hydraulic Tool	5.00			3456.00	
Jars	6.00			3462.00	
Safety Joint	2.00			3464.00	
Top Packer	5.00			3469.00	
Packer	5.00			3474.00	28.00 Bottom Of Top Packer
Anchor	6.00			3480.00	
Recorder	1.00	6666	Inside	3481.00	
Recorder	1.00	8525	Outside	3482.00	
Bull Plug	3.00			3485.00	11.00 Anchor Tool
Total Tool Length:	39.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

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

23-17s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Axman "A" Unit #2-24

Job Ticket: 19240

DST#: 6

ATTN: Rene Husted

Test Start: 2014.05.04 @ 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: 7300.00 ohm.m

Salinity: ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Drilling Mud	0.351
540.00	Water	7.575

Total Length: 565.00 ft Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

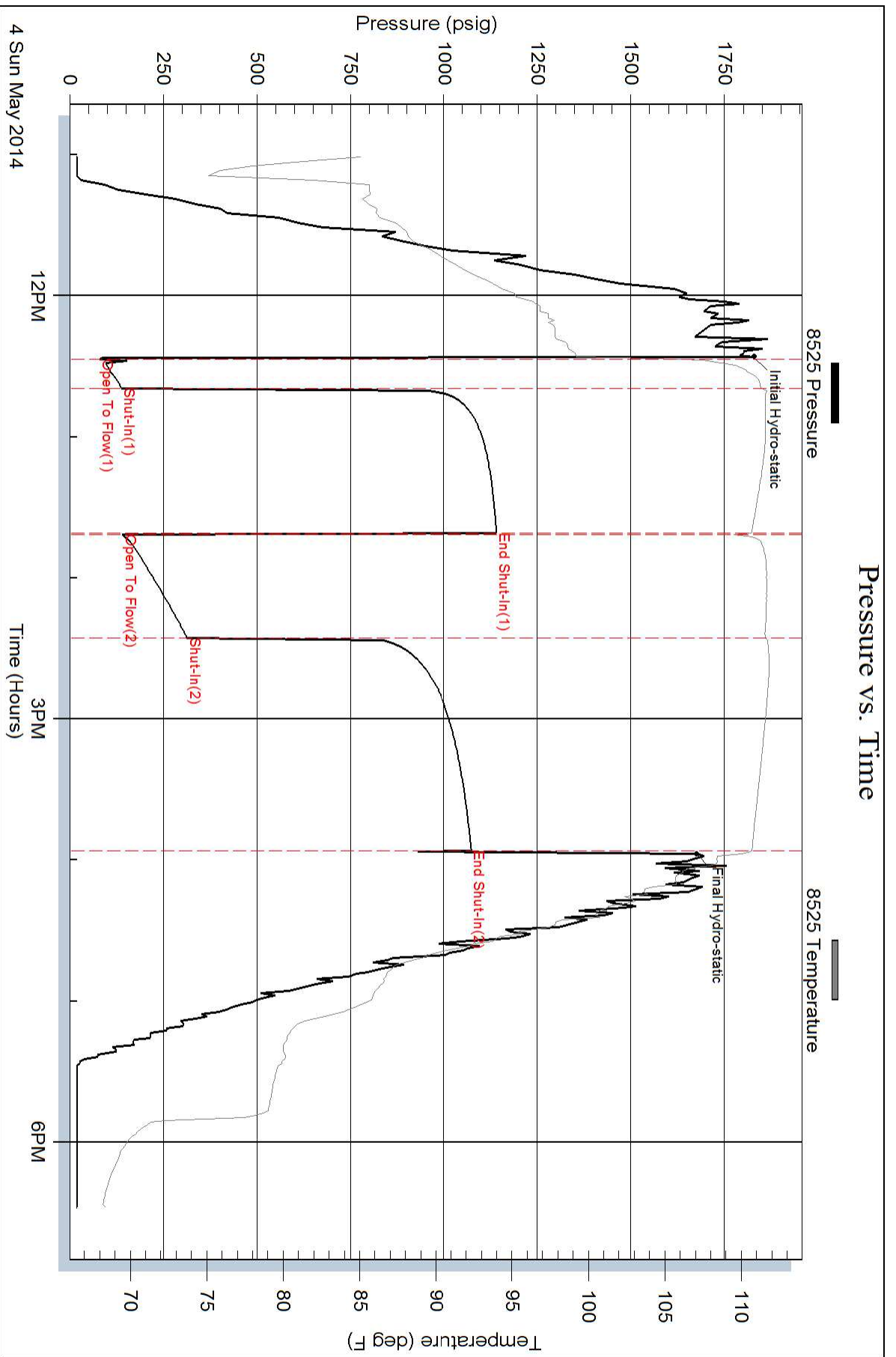
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

