



KANSAS CORPORATION COMMISSION 1082697
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5056
Name: F. G. Holl Company L.L.C.
Address 1: 9431 E CENTRAL STE 100
Address 2: _____
City: WICHITA State: KS Zip: 67206 + 2563
Contact Person: Franklin R. Greenbaum
Phone: (316) 684-8481
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Ryan Greenbaum
Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
- 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 #: _____

03/07/2012 3/16/2012 05/14/2012
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-009-25668-00-00

Spot Description: 15' S & 45' W. OF NWSESESW

NW SE SE SW Sec. 22 Twp. 19 S. R. 15 East West

480 Feet from North / South Line of Section

2100 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Barton

Lease Name: DEINES Well #: 1-22

Field Name: Unnamed

Producing Formation: None

Elevation: Ground: 1926 Kelly Bushing: 1934

Total Depth: 3700 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 889 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: 42000 ppm Fluid volume: 400 bbls

Dewatering method used: Evaporated

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: Deanna Garrisor Date: 07/30/2012



1082697

Operator Name: F. G. Holl Company L.L.C. Lease Name: DEINES Well #: 1-22
 Sec. 22 Twp. 19 S. R. 15 East West County: Barton

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Attached	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Attached Attached Attached
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CASING RECORD <input checked="" 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
Surface	12.25	8.6250	24	889	A-Con & Commor	350	
Production	7.8750	4.50	9.5	3699	Scavenger & AA-2	180	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing				
___ Plug Back TD	-			
___ Plug Off Zone	-			

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
4	3604' - 3609' Arbuckle	250 gal 10% acetic acid	
		Spotted 500 gal 10% acetic acid	
		Frac w/ 20,000#s total proppant	
4	3644' - 3650' Arbuckle		

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. _____	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> 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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	DEINES 1-22
Doc ID	1082697

All Electric Logs Run

CDL/CNL
DIL
Resistivity
CPI
BHCS

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	DEINES 1-22
Doc ID	1082697

Tops

Interval	Top	Depth
Herrington	1811	+123
Winfield	1865	+69
Towanda	1926	+8
Ft Riley	1960	-26
B/Florence	2070	-136
Kinney ls	2088	-154
Wrefold	2119	-185
Council Grove	2140	-206
Root Shale	2690	-690
Stotler	2661	-727
Tarkio	2720	-786
Howard	2860	-926
Heebner	3184	-1250
Toronto	3197	-1263
Brown Lime	3265	-1331
Lansing	3274	-1340
Arbuckle	3604	-1670



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 05983 A

DATE _____ TICKET NO. _____

DATE OF JOB: 3-17-2012	DISTRICT	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.		
CUSTOMER: FGI HOLL CO., INC.		LEASE: DEINES		WELL NO. 1-22					
ADDRESS		COUNTY: BARTON		STATE: Ks.					
CITY		STATE		SERVICE CREW: LESLEY, MELSON, PIERSON					
AUTHORIZED BY		JOB TYPE: CNW - 4 1/2" L.S.							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
37581e	4.5						3-17-12		6:00
19833-19860	4.5					ARRIVED AT JOB			7:00
33708-20920	4.5					START OPERATION			11:00
						FINISH OPERATION		PM	3:30
						RELEASED		PM	4:30
						MILES FROM STATION TO WELL			6.5

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: *Rob Long*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	AA-2 CEMENT	SK	155		
CP 103	100/40 P02	SK	75		
CC 102	CELL-FLAKE	lb	39		
CC 105	DE-FOAMER	lb	37		
CC 111	SALT	lb	706		
CC 129	FLA-322	lb	146		
CC 201	GILSONITE	lb	1920		
CE 1006	LATCH DOWN PLUG & BAFFLE, 4 1/2"	EA	1		
CE 1250	AUTO FILL FLOAT SHOE, 4 1/2"	EA	1		
CE 1650	TURBOLIZER, 4 1/2"	EA	8		
CE 1900	BASKET, 4 1/2"	EA	1		
CE 2002	CMT. SCRATCHERS - ROTATING TYPE	EA	95	17.50	
CC 154	SUPER FLUSH	GAL	500		

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: *John Husley*
THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Rob Long*
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



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 05249 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>3-7-12</u>	DISTRICT <u>KANSAS</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>FG HOLL CO. LLC</u>	LEASE <u>Deines # 1-22</u>		WELL NO.				
ADDRESS	COUNTY <u>Barton 22-19-15</u>		STATE <u>KANSAS</u>				
CITY	STATE	SERVICE CREW <u>Allen, McGuire, Lawrence</u>					
AUTHORIZED BY	JOB TYPE: <u>8 5/8" Surface Cnw</u>						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED <u>3-7-12</u>	DATE <u>3-7-12</u> AM <u>630</u> TIME
<u>28443, PU</u>	<u>1</u>					ARRIVED AT JOB <u>3-7-12</u>	AM <u>830</u> TIME
<u>30316 VAN</u>	<u>1</u>					START OPERATION <u>3-8-12</u>	AM <u>200</u> TIME
<u>33706 20920</u>	<u>1</u>					FINISH OPERATION <u>3-8-12</u>	AM <u>300</u> TIME
<u>19832 21010</u>	<u>1</u>					RELEASED <u>3-8-12</u>	AM <u>400</u> TIME
						MILES FROM STATION TO WELL <u>6.5 miles</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: _____
(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	175		
CP100C	common cement	SK	175		
CC102	cell FLAKE	lb	88		
CC109	Calcium chloride	lb	825		
CF105	Top Rubber cement Plus 8 5/8	EA	1		
CF1253	cont. 8 5/8 Blue	EA	3		
F100	unit mileage chg. Pickup	m.	65		
F101	Heavy Equip. mileage chg.	m.	130		
F113	Bulk Delivery Charge	Tm	1073		
CF201	Depth Charge 501-1000'	4.60	1		
CF240	Bleeding & mixing service chg.	SK	350		
CF504	Plug container utilization chg. Job	EA	1		
5003	Service Supervisor first 8hrs on job	EA	1		

SUB TOTAL
DL5

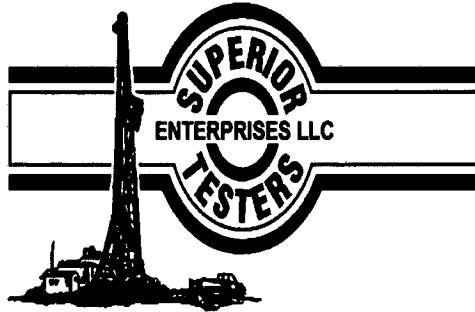
CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE Allen P. Ward THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

A 11 23 28



DRILL STEM TEST REPORT

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

9431 E Central STE 100 Wichita KS
67206+2563

ATTN: Ryan Greenbaum

Deines #1-22

22-19s-15w Baton

Start Date: 2012.03.12 @ 16:38:00

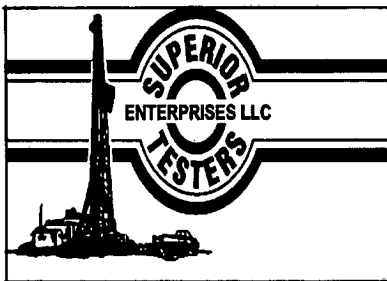
End Date: 2012.03.12 @ 21:50:30

Job Ticket #: 18749 DST #: 1

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

Printed: 2012.03.12 @ 22:07:41

F.G. Holl Company L.L.C 22-19s-15w Baton Deines #1-22 DST # 1 LKC "H" 2012.03.12



DRILL STEM TEST REPORT

F.G. Holl Company L.L.C

22-19s-15w Baton

9431 E Central STE 100 Wichita KS 67206+2563

Deines #1-22

Job Ticket: 18749

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2012.03.12 @ 16:38:00

GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:57:00

Time Test Ended: 21:50:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-GB-20

Interval: **3395.00 ft (KB) To 3415.00 ft (KB) (TVD)**

Total Depth: 3415.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1934.00 ft (KB)

1926.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8524

Press@RunDepth: 40.39 psia @ ft (KB)

Start Date: 2012.03.12

End Date: 2012.03.12

Start Time: 16:38:00

End Time: 21:50:30

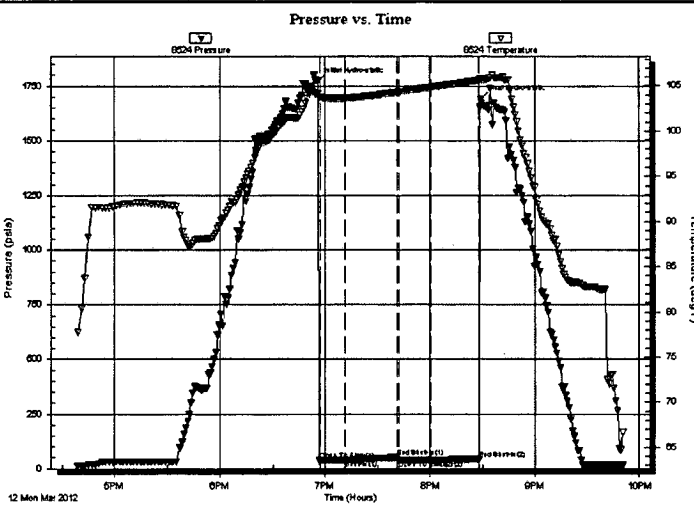
Capacity: 5000.00 psia

Last Calib.: 2012.03.12

Time On Btm: 2012.03.12 @ 18:56:00

Time Off Btm: 2012.03.12 @ 20:29:00

TEST COMMENT: 1st Opening 15 Minutes-Weak surface blow built 1/2 inch into water did not build
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 15 Minutes-Very weak surge did not build
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

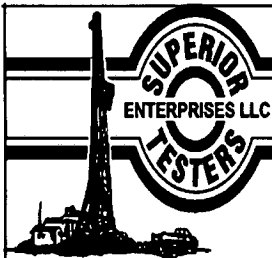
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1772.52	104.12	Initial Hydro-static
1	37.74	103.76	Open To Flow (1)
16	39.19	103.61	Shut-In(1)
45	51.36	104.29	End Shut-In(1)
46	39.36	104.31	Open To Flow (2)
65	40.39	104.84	Shut-In(2)
92	43.04	105.59	End Shut-In(2)
93	1688.50	105.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud	0.01

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company L.L.C

22-19s-15w Baton

9431 E Central STE 100 Wichita KS 67206+2563

Deines #1-22

Job Ticket: 18749

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2012.03.12 @ 16:38:00

GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:57:00

Time Test Ended: 21:50:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-GB-20

Interval: **3395.00 ft (KB) To 3415.00 ft (KB) (TVD)**

Total Depth: 3415.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1934.00 ft (KB)

1926.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8525

Press@RunDepth: 98.80 psia @ ft (KB)

Start Date: 2012.03.12

End Date: 2012.03.12

Start Time: 16:38:00

End Time: 21:50:30

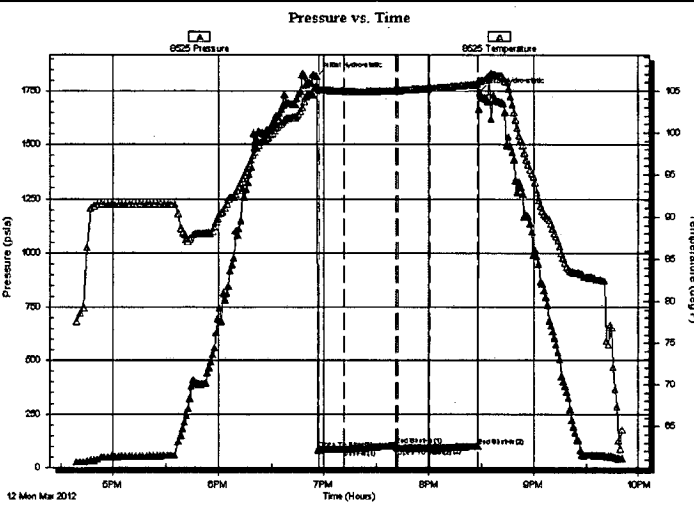
Capacity: 5000.00 psia

Last Calib.: 2012.03.12

Time On Btm: 2012.03.12 @ 18:56:00

Time Off Btm: 2012.03.12 @ 20:29:00

TEST COMMENT: 1st Opening 15 Minutes-Weak surface blow built 1/2 inch into water did not build
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 15 Minutes-Very weak surge did not build
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

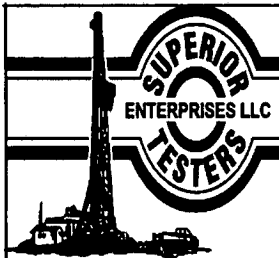
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1819.00	105.55	Initial Hydro-static
1	83.34	105.15	Open To Flow (1)
16	86.57	104.95	Shut-in(1)
45	102.75	105.03	End Shut-in(1)
46	89.69	105.05	Open To Flow (2)
65	92.02	105.31	Shut-in(2)
92	98.80	105.79	End Shut-in(2)
93	1744.32	106.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud	0.01

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company L.L.C
 9431 E Central STE 100 Wichita KS 67206+2563
 ATTN: Ryan Greenbaum

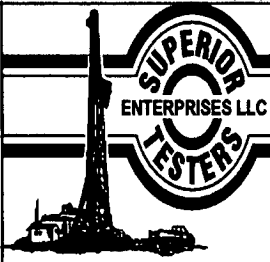
22-19s-15w Baton
Deines #1-22
 Job Ticket: 18749 **DST#: 1**
 Test Start: 2012.03.12 @ 16:38:00

Tool Information

Drill Pipe:	Length: 3390.00 ft	Diameter: 3.80 inches	Volume: 47.55 bbl	Tool Weight:	1000.00 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:	45000.00 lb
			<u>Total Volume: 47.55 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3395.00 ft			Final	38000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 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-InTool	5.00		Inside	3372.00	
Hydrolic Tool	5.00			3377.00	
Jars	6.00			3383.00	
Safety Joint	2.00			3385.00	
Packer	5.00			3390.00	28.00 Bottom Of Top Packer
Packer	5.00			3395.00	
Anchor	15.00			3410.00	
Recorder	1.00	8524	Inside	3411.00	
Recorder	1.00	8525	Outside	3412.00	
Bullnose	3.00			3415.00	20.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company L.L.C

22-19s-15w Baton

9431 E Central STE 100 Wichita KS 67206+2563

Deines #1-22

Job Ticket: 18749

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2012.03.12 @ 16:38:00

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: 57.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psia

Salinity: 6400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	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:

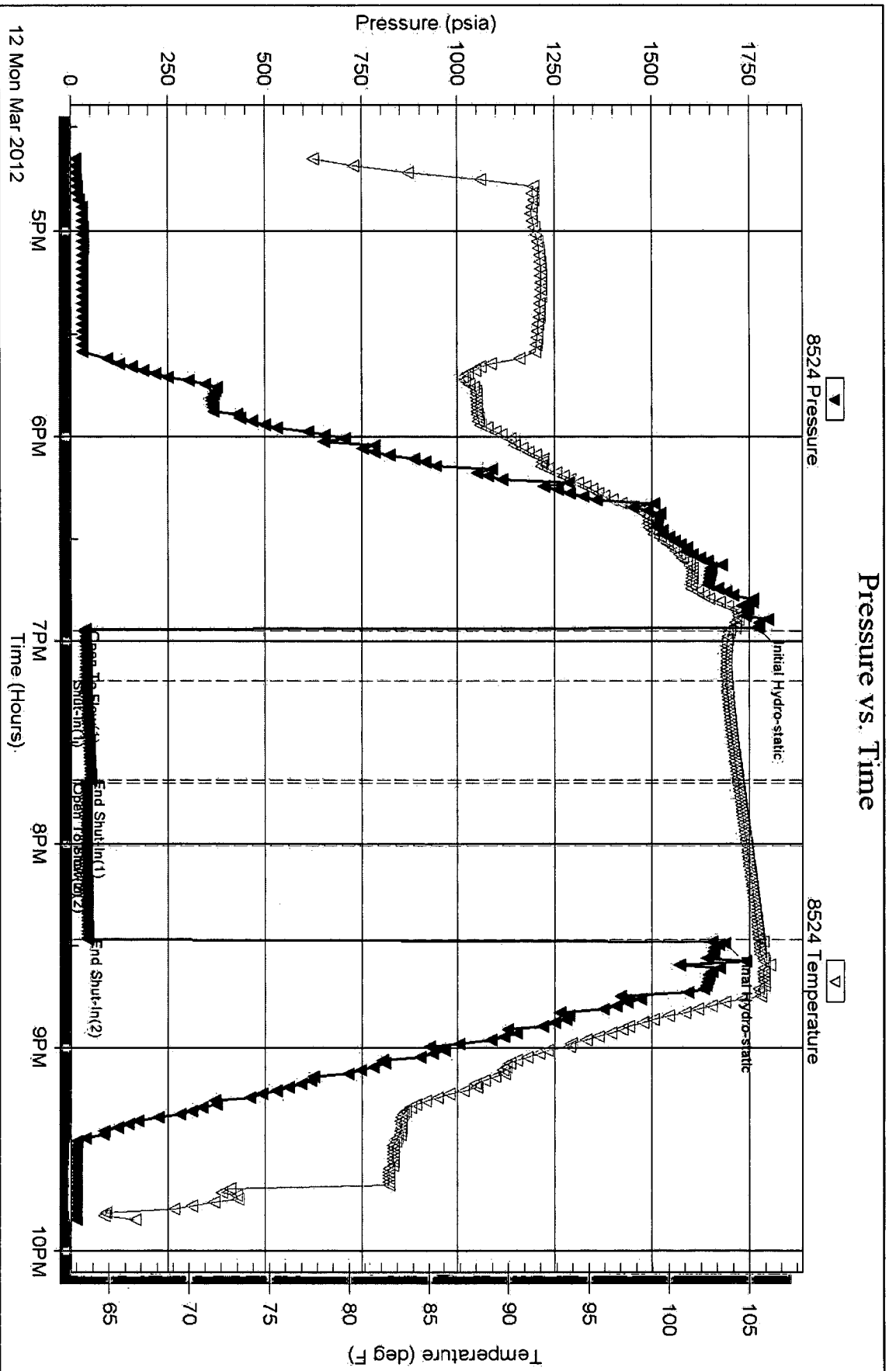
Recovery Comments:

Serial #: 8524

F.G. Hall Company, L.L.C

Deines #1-22

DST Test Number: 1



Superior Testers Enterprises LLC

Ref. No: 18749

Printed: 2012.03.12 @ 22:07:42

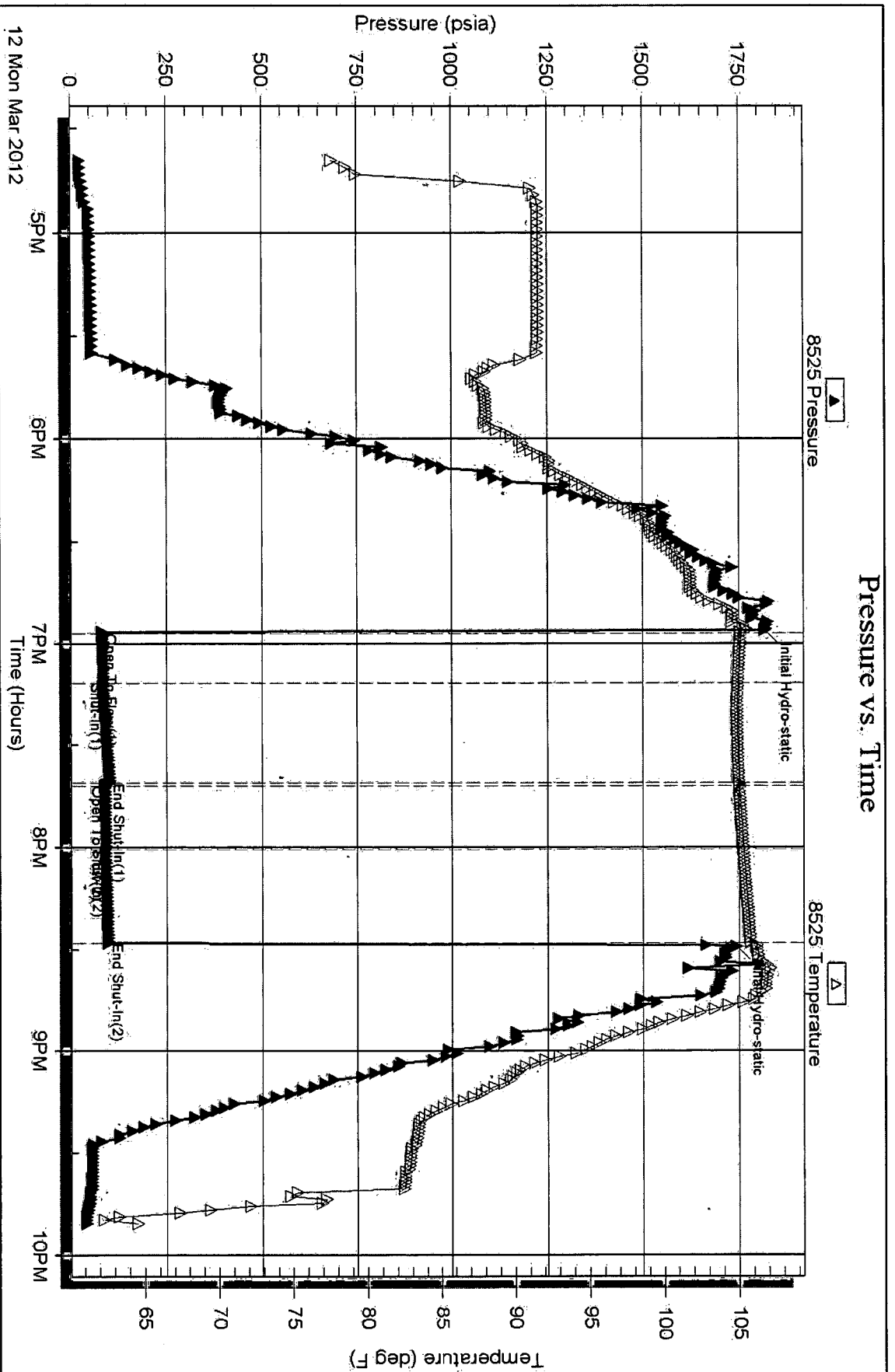
Serial #: 8525

F.G. Hill Company, L.L.C

Delines #1-22

DST Test Number: 1

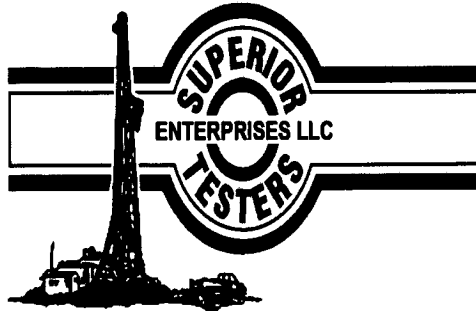
Pressure vs. Time



Superior Testers Enterprises LLC

Ref. No: 18749

Printed: 2012.03.12 @ 22:07:43



DRILL STEM TEST REPORT

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

9431 E Central STE 100 Wichita KS
67206+2563

ATTN: Ryan Greenbaum

Deines #1-22

22-19s-15w Baton

Start Date: 2012.03.13 @ 06:48:00

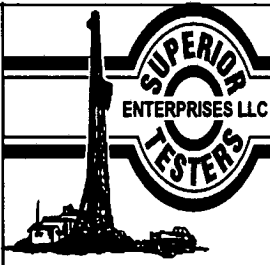
End Date: 2012.03.13 @ 00:00:00

Job Ticket #: 18750 DST #: 2

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

Printed: 2012.03.13 @ 13:16:11

F.G. Holl Company L.L.C 22-19s-15w Baton Deines #1-22 DST # 2 LKC "r" 2012.03.13



DRILL STEM TEST REPORT

F.G. Holl Company L.L.C

22-19s-15w Baton

9431 E Central STE 100 Wichita KS 67206+2563

Deines #1-22

Job Ticket: 18750

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2012.03.13 @ 06:48:00

GENERAL INFORMATION:

Formation: **LKC "I"**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 08:46:00

Time Test Ended: 00:00:00

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Jared Scheck**

Unit No: **3320-GB-20**

Interval: 3414.00 ft (KB) To 3430.00 ft (KB) (TVD)

Total Depth: **3430.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1934.00 ft (KB)**

1926.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 8524

Press@RunDepth: **58.12 psia @** ft (KB)

Capacity: psia

Start Date: **2012.03.13**

End Date: **2012.03.13**

Last Calib.: **1899.12.30**

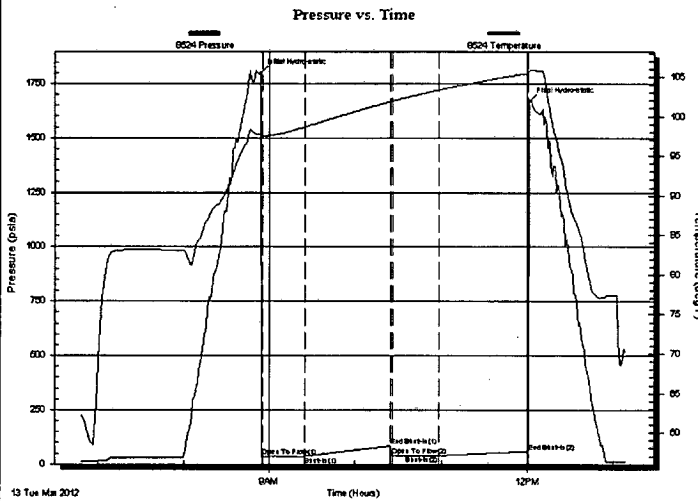
Start Time: **06:48:00**

End Time: **13:10:00**

Time On Btm: **2012.03.13 @ 08:54:00**

Time Off Btm: **2012.03.13 @ 12:01:30**

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 3/4 inch into water in 30 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 30 Minutes-Weak blow built 1/2 inch into water in 30 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

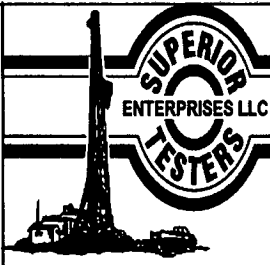
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1797.61	97.73	Initial Hydro-static
1	36.34	97.45	Open To Flow (1)
31	36.96	98.64	Shut-In(1)
91	84.47	101.85	End Shut-In(1)
92	39.85	101.91	Open To Flow (2)
125	39.96	103.34	Shut-In(2)
187	58.12	105.44	End Shut-In(2)
188	1666.76	105.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company L.L.C

22-19s-15w Baton

9431 E Central STE 100 Wichita KS 67206+2563

Deines #1-22

Job Ticket: 18750

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2012.03.13 @ 06:48:00

GENERAL INFORMATION:

Formation: **LKC "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:46:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-GB-20

Interval: **3414.00 ft (KB) To 3430.00 ft (KB) (TVD)**

Reference Elevations: 1934.00 ft (KB)

Total Depth: 3430.00 ft (KB) (TVD)

1926.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8525

Press@RunDepth: 115.33 psia @ ft (KB)

Capacity: psia

Start Date: 2012.03.13

End Date: 2012.03.13

Last Calib.: 1899.12.30

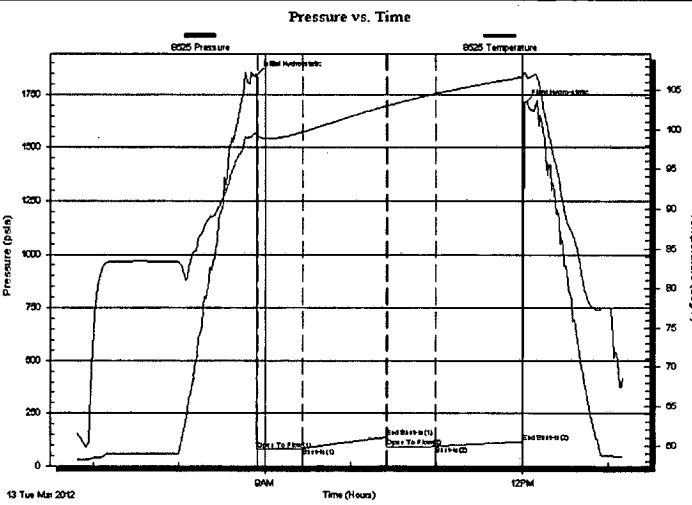
Start Time: 06:48:00

End Time: 13:10:30

Time On Btm: 2012.03.13 @ 08:54:00

Time Off Btm: 2012.03.13 @ 12:01:30

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 3/4 inch into water in 30 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 30 Minutes-Weak blow built 1/2 inch into water in 30 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

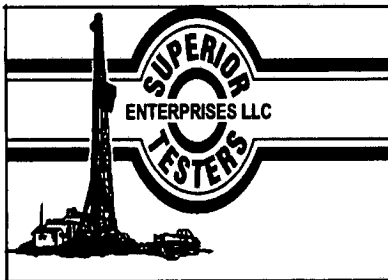
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1840.59	99.44	Initial Hydro-static
1	79.14	99.09	Open To Flow (1)
33	83.78	99.65	Shut-in(1)
91	136.23	102.94	End Shut-in(1)
92	90.67	103.00	Open To Flow (2)
126	93.94	104.51	Shut-in(2)
187	115.33	106.64	End Shut-in(2)
188	1709.51	107.06	Final Hydro-static

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

22-19s-15w Baton

9431 E Central STE 100 Wichita KS 67206+2563

Deines #1-22

Job Ticket: 18750

DST#: 2

ATTN: Ryan Greenbaum

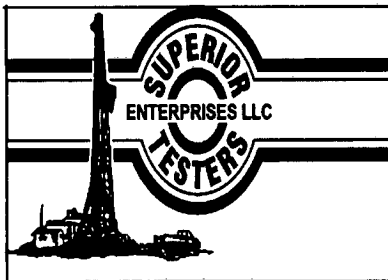
Test Start: 2012.03.13 @ 06:48:00

Tool Information

Drill Pipe:	Length: 3390.00 ft	Diameter: 3.80 inches	Volume: 47.55 bbl	Tool Weight:	1000.00 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: 47.55 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3414.00 ft			Final	38000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	16.00 ft				
Tool Length:	44.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	3391.00	
Hydraulic Tool	5.00			3396.00	
Jars	6.00			3402.00	
Safety Joint	2.00			3404.00	
Packer	5.00			3409.00	28.00 Bottom Of Top Packer
Packer	5.00			3414.00	
Anchor	11.00			3425.00	
Recorder	1.00	8524	Inside	3426.00	
Recorder	1.00	8525	Outside	3427.00	
Bullnose	3.00			3430.00	16.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company L.L.C

22-19s-15w Baton

9431 E Central STE 100 Wichita KS 67206+2563

Deines #1-22

Job Ticket: 18750

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2012.03.13 @ 06:48:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 6500.00 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:

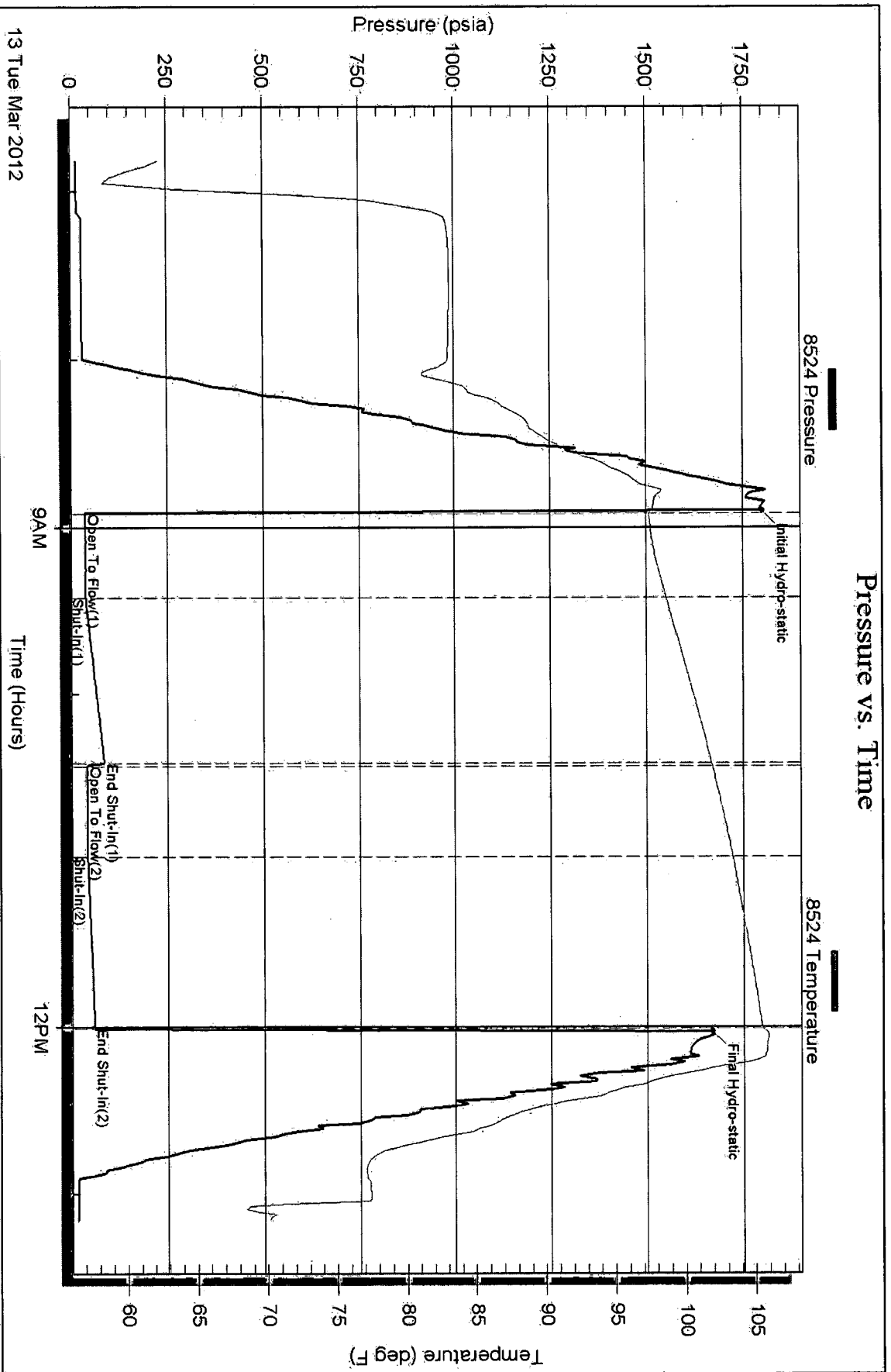
Serial #: 8524

F.G. Hill Company L.L.C

Delines #1-22

DST Test Number: 2

Pressure vs. Time



Superior Testers Enterprises LLC

Ref. No: 18750

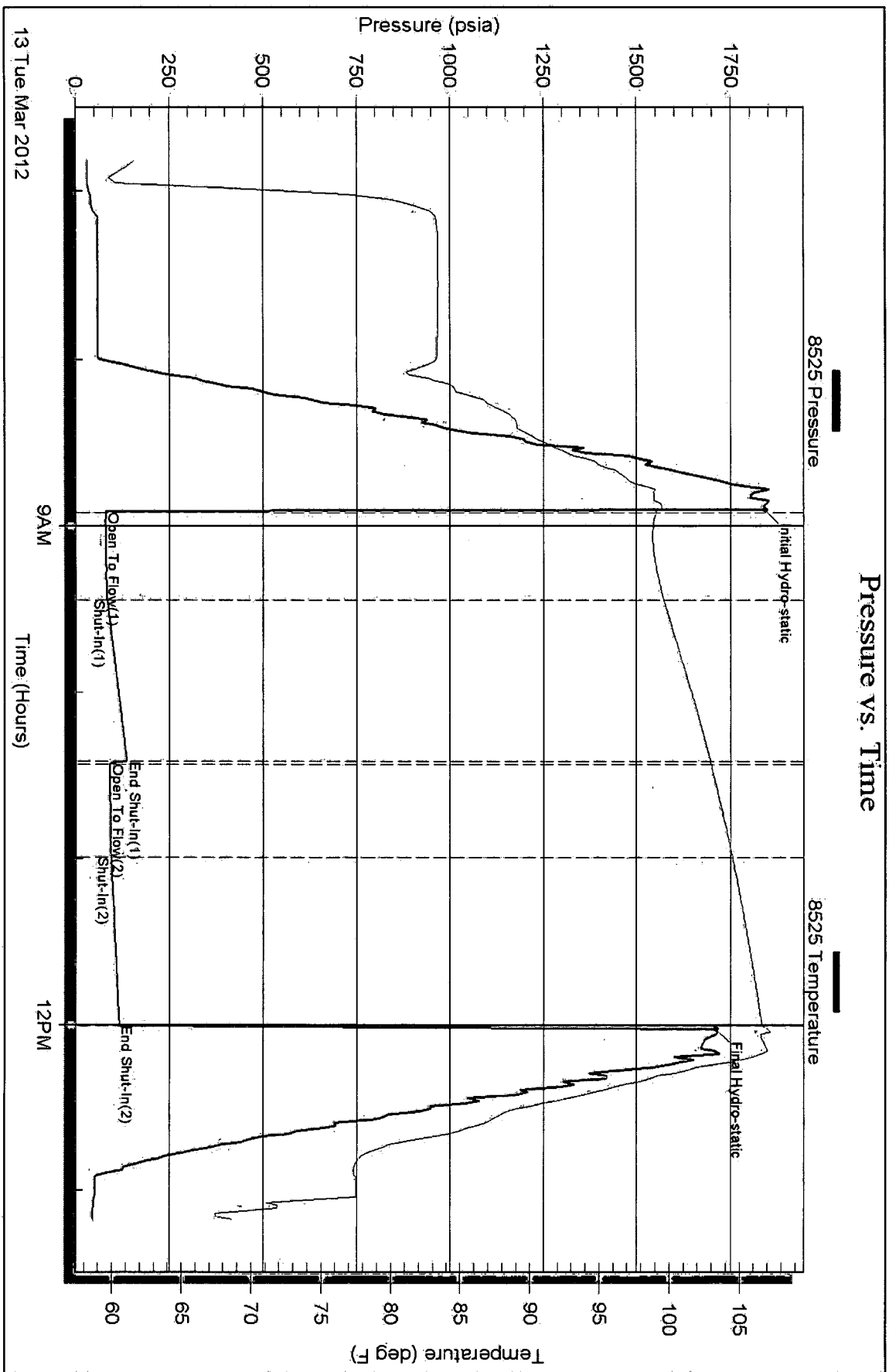
Printed: 2012.03.13 @ 13:16:12

Serial #: 8525

F.G. Hall Company L.L.C

Deines #1-22

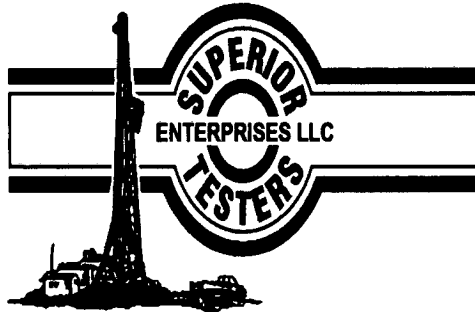
DST Test Number: 2



Superior Testers Enterprises LLC

Ref. No: 18750

Printed: 2012.03.13 @ 13:16:12



DRILL STEM TEST REPORT

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

9431 E Central STE 100 Wichita KS
67206+2563

ATTN: Ryan Greenbaum

Deines #1-22

22-19s-15w Baton

Start Date: 2012.03.14 @ 12:00:00

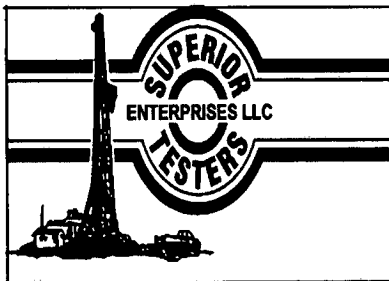
End Date: 2012.03.14 @ 18:35:00

Job Ticket #: 17126 DST #: 3

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

Printed: 2012.03.16 @ 07:22:39

F.G. Holl Company L.L.C 22-19s-15w Baton Deines #1-22 DST # 3 Goaram sand 2012.03.14



DRILL STEM TEST REPORT

F.G. Holl Company L.L.C

22-19s-15w Baton

9431 E Central STE 100 Wichita KS 67206+2563

Deines #1-22

Job Ticket: 17126

DST#: 3

ATTN: Ryan Greenbaum

Test Start: 2012.03.14 @ 12:00:00

GENERAL INFORMATION:

Formation: **Goaram sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:32:30

Time Test Ended: 18:35:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-GB-20

Interval: **3593.00 ft (KB) To 3600.00 ft (KB) (TVD)**

Total Depth: 3600.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1934.00 ft (KB)

1926.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8524

Inside

Press@RunDepth: 25.10 psia @ 3596.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.03.14

End Date:

2012.03.14

Last Calib.: 2012.03.14

Start Time: 12:01:00

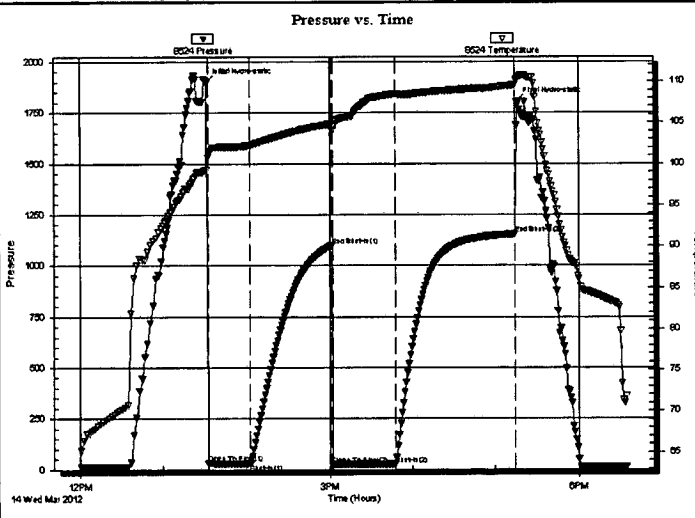
End Time:

18:35:00

Time On Btm: 2012.03.14 @ 13:31:30

Time Off Btm: 2012.03.14 @ 17:16:00

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built bottom of bucket in 16 minutes
 1st Shut-in 60 Minutes-2 inch blow back
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 1 minutes
 2nd Shut-in 90 Minutes-3 inch blow back



PRESSURE SUMMARY

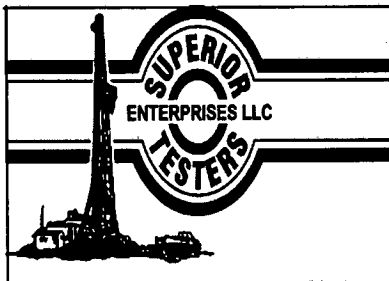
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1899.53	99.27	Initial Hydro-static
1	33.38	100.77	Open To Flow (1)
31	27.72	102.20	Shut-In(1)
90	1097.36	104.87	End Shut-In(1)
91	24.58	104.05	Open To Flow (2)
136	25.10	108.48	Shut-In(2)
223	1153.20	109.52	End Shut-In(2)
225	1804.01	110.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud	0.21
0.00	525 Gas in pipe	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company L.L.C

22-19s-15w Baton

9431 E Central STE 100 Wichita KS 67206+2563

Deines #1-22

Job Ticket: 17126

DST#: 3

ATTN: Ryan Greenbaum

Test Start: 2012.03.14 @ 12:00:00

GENERAL INFORMATION:

Formation: **Goaram sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:32:30

Time Test Ended: 18:35:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-GB-20

Interval: **3593.00 ft (KB) To 3600.00 ft (KB) (TVD)**

Total Depth: 3600.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1934.00 ft (KB)

1926.00 ft (CF)

KB to GRVCF: 8.00 ft

Serial #: 8525

Press@RunDepth: 1196.56 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.03.14

End Date: 2012.03.14

Last Calib.: 2012.03.14

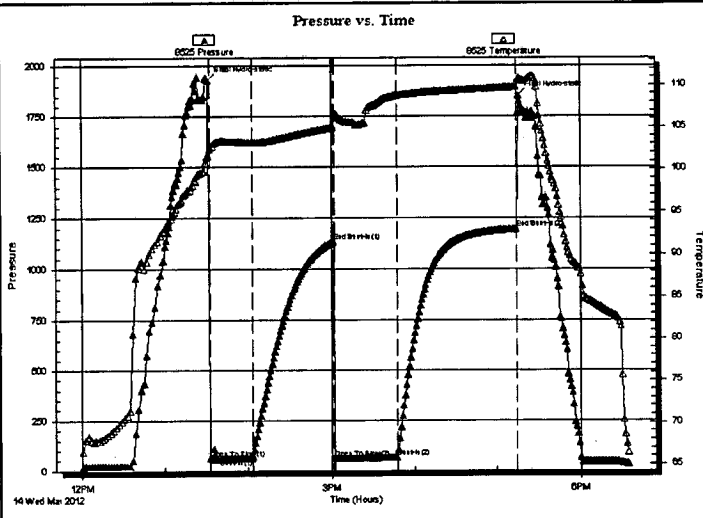
Start Time: 12:01:00

End Time: 18:35:00

Time On Btm: 2012.03.14 @ 13:31:30

Time Off Btm: 2012.03.14 @ 17:16:00

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built bottom of bucket in 16 minutes
 1st Shut-in 60 Minutes-2 inch blow back
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 1 minutes
 2nd Shut-in 90 Minutes-3 inch blow back



PRESSURE SUMMARY

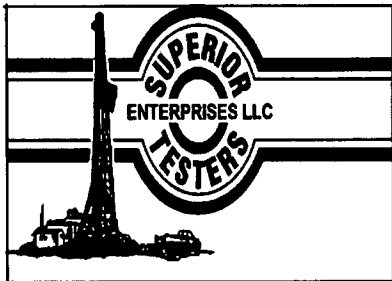
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1929.78	101.59	Initial Hydro-static
1	63.53	102.32	Open To Flow (1)
32	62.54	103.17	Shut-In(1)
90	1135.70	104.96	End Shut-In(1)
91	62.71	106.42	Open To Flow (2)
136	65.91	108.77	Shut-In(2)
223	1196.56	109.77	End Shut-In(2)
225	1852.98	110.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud	0.21
0.00	525 Gas in pipe	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

22-19s-15w Baton

9431 E Central STE 100 Wichita KS 67206+2563

Deines #1-22

Job Ticket: 17126

DST#: 3

ATTN: Ryan Greenbaum

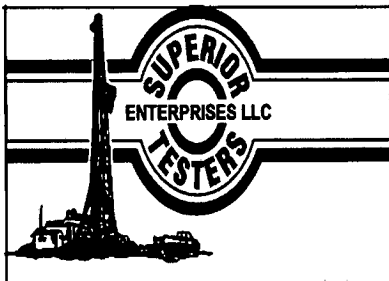
Test Start: 2012.03.14 @ 12:00:00

Tool Information

Drill Pipe:	Length: 3574.00 ft	Diameter: 3.80 inches	Volume: 50.13 bbl	Tool Weight:	1000.00 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:	45000.00 lb
			<u>Total Volume: 50.13 bbl</u>	Tool Chased	1000.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3593.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	7.00 ft				
Tool Length:	35.00 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		Inside	3570.00	
Hydraulic Tool	5.00			3575.00	
Jars	6.00			3581.00	
Safety Joint	2.00			3583.00	
Packer	5.00			3588.00	28.00 Bottom Of Top Packer
Packer	5.00			3593.00	
Anchor	2.00			3595.00	
Recorder	1.00	8524	Inside	3596.00	
Recorder	1.00	8525	Outside	3597.00	
Bullnose	3.00			3600.00	7.00 Bottom Packers & Anchor
Total Tool Length:	35.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company L.L.C
 9431 E Central STE 100 Wichita KS 67206+2563
 ATTN: Ryan Greenbaum

22-19s-15w Baton
Deines #1-22
 Job Ticket: 17126 **DST#: 3**
 Test Start: 2012.03.14 @ 12:00:00

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: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3600.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud	0.210
0.00	525 Gas in pipe	0.000

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:

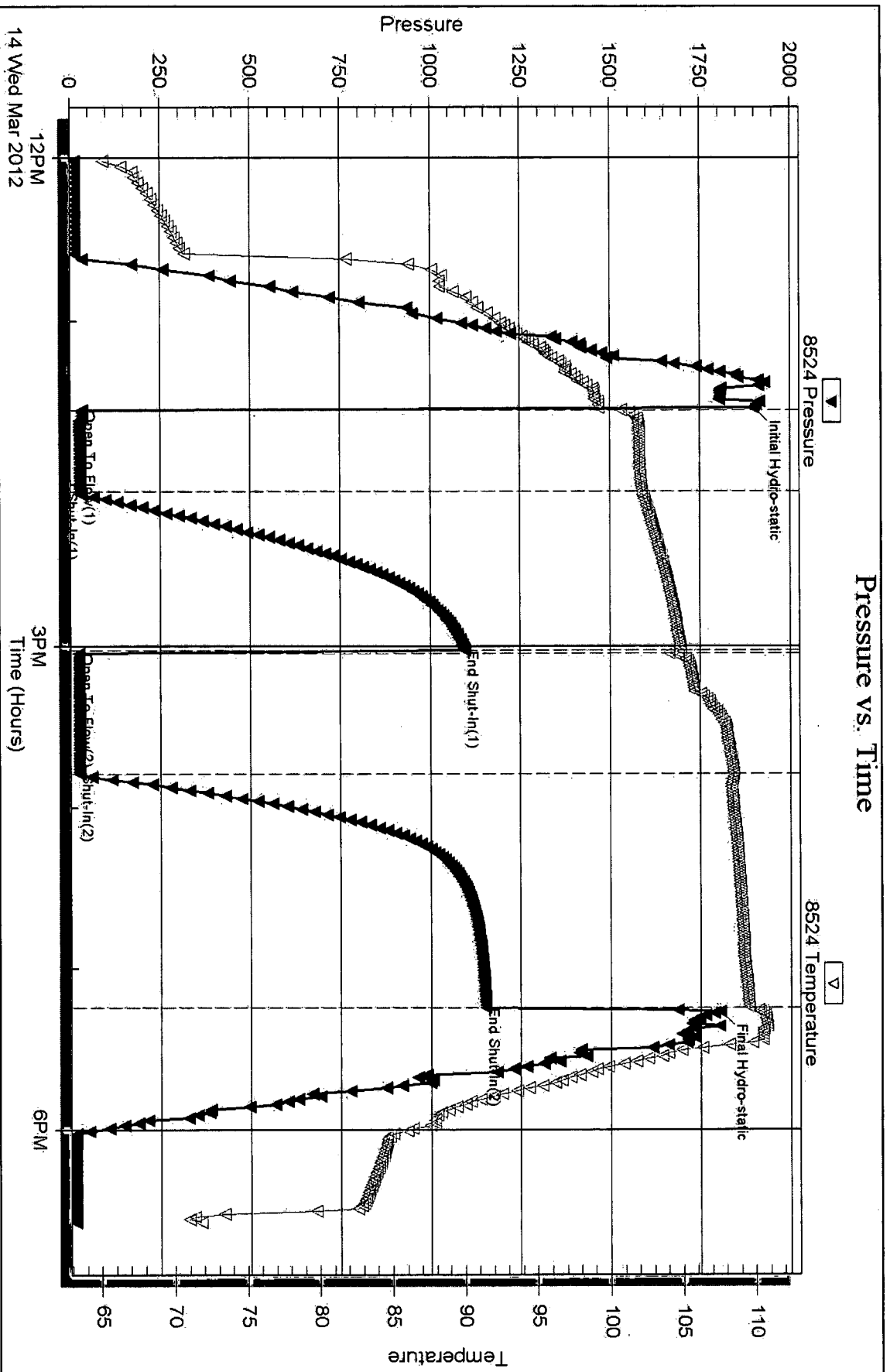
Serial #: 8524

Inside

F.G. Hill Company L.L.C

Devins #1-22

DST Test Number: 3



Superior Testers Enterprises LLC

Ref. No: 17126

Printed: 2012.03.16 @ 07:22:40

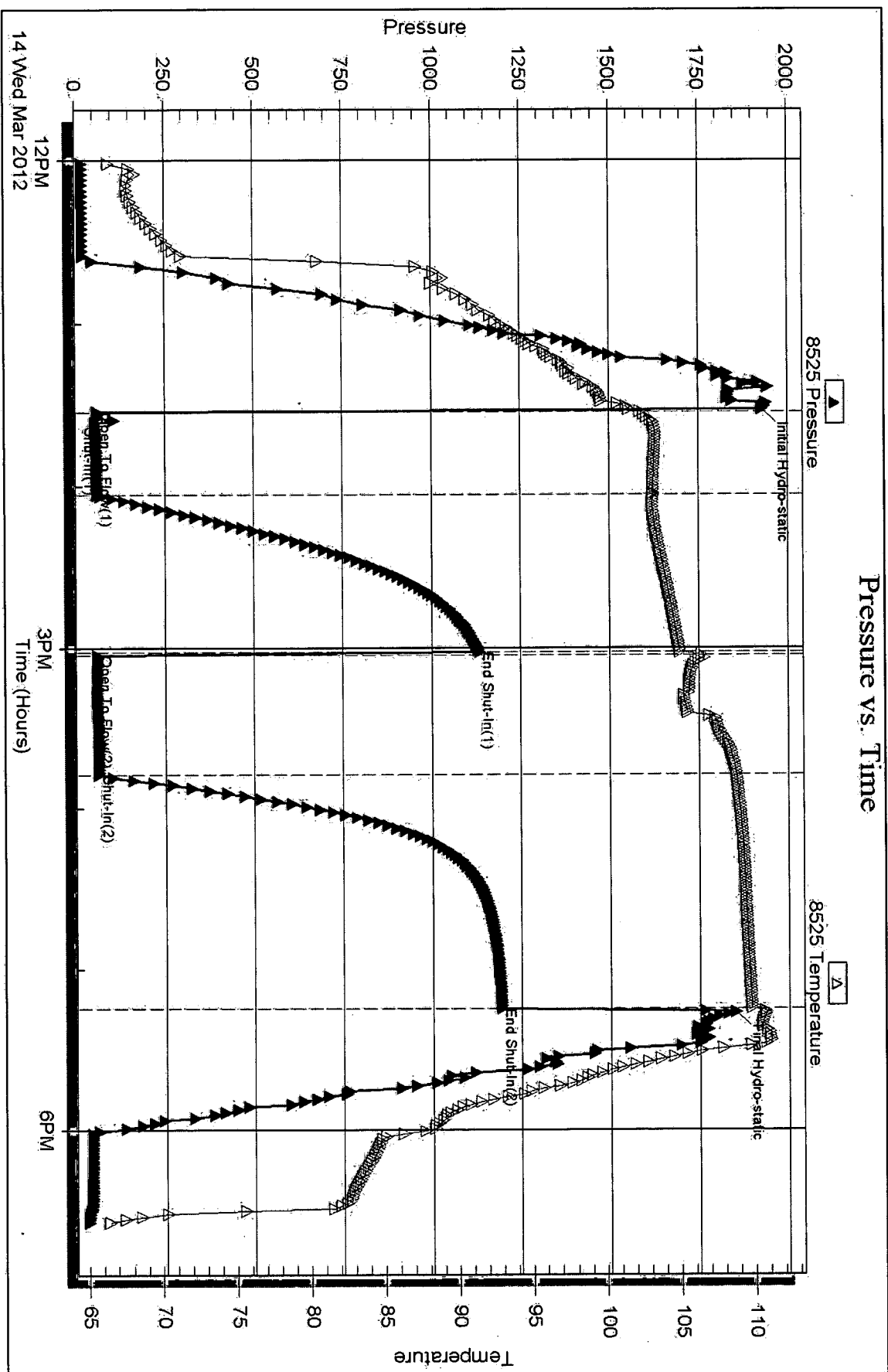
Serial #: 8525

F.G. Hall Company L.L.C.

Devies #1-22

DST Test Number: 3

Pressure vs. Time



Superior Testers Enterprises LLC

Ref. No: 17126

Printed: 2012.03.16 @ 07:22:40



DRILL STEM TEST REPORT

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

9431 E Central STE 100 Wichita KS
67206+2563

ATTN: Ryan Greenbaum

Deines #1-22

22-19s-15w Baton

Start Date: 2012.03.15 @ 09:00:00

End Date: 2012.03.15 @ 16:02:00

Job Ticket #: 17127 DST #: 4

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

Printed: 2012.03.16 @ 07:23:12

F.G. Holl Company L.L.C 22-19s-15w Baton Deines #1-22 DST # 4 Goaram sand 2012.03.15



DRILL STEM TEST REPORT

F.G. Holl Company L.L.C

22-19s-15w Baton

9431 E Central STE 100 Wichita KS 67206+2563

Deines #1-22

Job Ticket: 17127

DST#: 4

ATTN: Ryan Greenbaum

Test Start: 2012.03.15 @ 09:00:00

GENERAL INFORMATION:

Formation: **Goaram sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:31:30

Time Test Ended: 16:02:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-GB-

Interval: **3598.00 ft (KB) To 3605.00 ft (KB) (TVD)**

Reference Elevations: 1934.00 ft (KB)

Total Depth: 3605.00 ft (KB) (TVD)

1926.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8524

Inside

Press@RunDepth: 43.19 psia @ 3601.00 ft (KB)

Capacity: 50000.00 psia

Start Date: 2012.03.15

End Date:

2012.03.15

Last Calib.: 2012.03.15

Start Time: 09:01:00

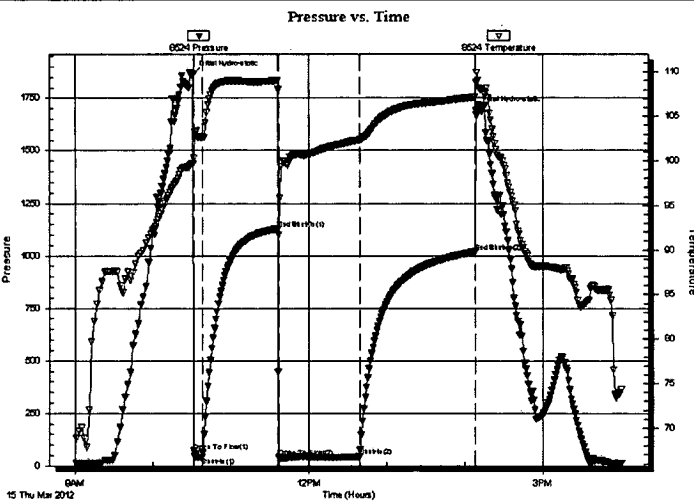
End Time:

16:02:00

Time On Btm: 2012.03.15 @ 10:31:00

Time Off Btm: 2012.03.15 @ 14:09:00

TEST COMMENT: 1st Opening 5 Minutes- Strong blow built to the bottom of a 5 gallon bucket in 1 1/2 minutes
 1st Shut-In 60 Minutes- weak blow back
 2nd Opening 60 Minutes-Strong blow gas to surface in 2 minutes see gas flow report
 2nd Shut-In 90 Minutes-Wek blow back



PRESSURE SUMMARY

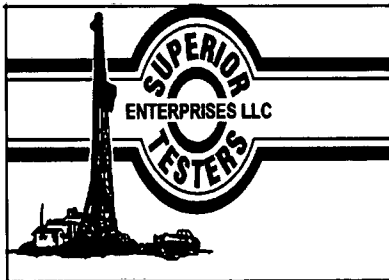
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1862.01	99.65	Initial Hydro-static
1	70.63	100.28	Open To Flow (1)
7	39.78	102.68	Shut-In(1)
65	1128.48	109.05	End Shut-In(1)
66	40.47	91.70	Open To Flow (2)
128	43.19	102.28	Shut-In(2)
218	1018.36	107.18	End Shut-In(2)
218	1692.48	108.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Gassy Mud	0.70

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.50	2.20	14.84
Last Gas Rate	0.50	3.00	20.24
Max. Gas Rate	0.50	3.00	20.24



DRILL STEM TEST REPORT

F.G. Holl Company L.L.C

22-19s-15w Baton

9431 E Central STE 100 Wichita KS 67206+2563

Deines #1-22

Job Ticket: 17127

DST#: 4

ATTN: Ryan Greenbaum

Test Start: 2012.03.15 @ 09:00:00

GENERAL INFORMATION:

Formation: **Goaram sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:31:30

Time Test Ended: 16:02:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-GB-

Interval: **3598.00 ft (KB) To 3605.00 ft (KB) (TVD)**

Reference Elevations: 1934.00 ft (KB)

Total Depth: 3605.00 ft (KB) (TVD)

1926.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8525

Outside

Press@RunDepth: 1056.03 psia @ 3602.00 ft (KB)

Capacity: psia

Start Date: 2012.03.15

End Date:

2012.03.15

Last Calib.:

1899.12.30

Start Time: 09:01:00

End Time:

16:01:30

Time On Btm:

2012.03.15 @ 10:31:00

Time Off Btm:

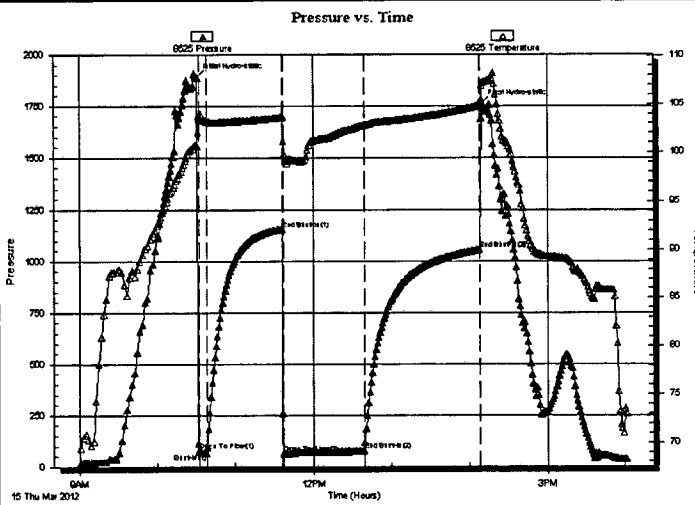
2012.03.15 @ 14:10:00

TEST COMMENT: 1st Opening 5 Minutes- Strong blow built to the bottom of a 5 gallon bucket in 1 1/2 minutes

1st Shut-In 60 Minutes- weak blow back

2nd Opening 60 Minutes-Strong blow gas to surface in 2 minutes see gas flow report

2nd Shut-In 90 Minutes-Wek blow back



PRESSURE SUMMARY

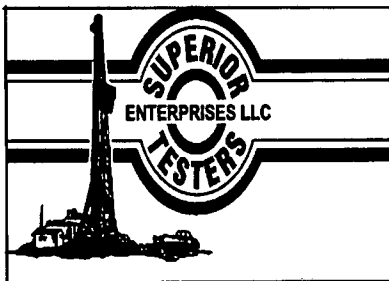
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1888.61	100.66	Initial Hydro-static
1	77.32	103.75	Open To Flow (1)
7	65.02	103.18	Shut-In(1)
65	1156.75	103.62	End Shut-In(1)
66	64.63	101.12	Open To Flow (2)
128	77.78	102.78	End Shut-In(2)
218	1056.03	104.81	End Shut-In(3)
219	1758.35	106.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Gassy Mud	0.70

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.50	2.20	14.84
Last Gas Rate	0.50	3.00	20.24
Max. Gas Rate	0.50	3.00	20.24



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company L.L.C
 9431 E Central STE 100 Wichita KS 67206+2563
 ATTN: Ryan Greenbaum

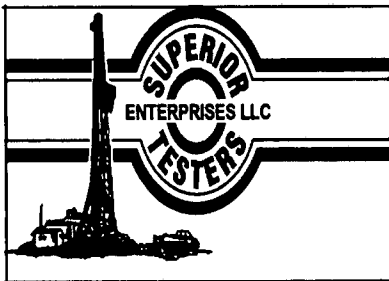
22-19s-15w Baton
Deines #1-22
 Job Ticket: 17127 **DST#: 4**
 Test Start: 2012.03.15 @ 09:00:00

Tool Information

Drill Pipe:	Length: 3579.00 ft	Diameter: 3.80 inches	Volume: 50.20 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:	42000.00 lb
			<u>Total Volume: 50.20 bbl</u>	Tool Chased	38000.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	0.00 lb
Depth to Top Packer:	3598.00 ft			Final	0.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	7.00 ft				
Tool Length:	35.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	3575.00	
Hydraulic Tool	5.00			3580.00	
Jars	6.00			3586.00	
Safety Joint	2.00			3588.00	
Packer	5.00			3593.00	28.00 Bottom Of Top Packer
Packer	5.00			3598.00	
Anchor	2.00			3600.00	
Recorder	1.00	8524	Inside	3601.00	
Recorder	1.00	8525	Outside	3602.00	
Bullnose	3.00			3605.00	7.00 Bottom Packers & Anchor
Total Tool Length:	35.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company L.L.C
 9431 E Central STE 100 Wichita KS 67206+2563
 ATTN: Ryan Greenbaum

22-19s-15w Baton
Deines #1-22
 Job Ticket: 17127 **DST#: 4**
 Test Start: 2012.03.15 @ 09:00:00

Mud and Cushion Information

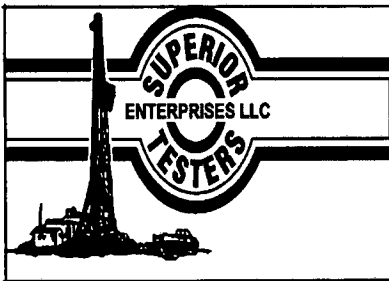
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 6400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Gassy Mud	0.701

Total Length: 50.00 ft Total Volume: 0.701 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



DRILL STEM TEST REPORT

GAS RATES

F.G. Holl Company L.L.C

22-19s-15w Baton

9431 E Central STE 100 Wichita KS 67206+2563

Deines #1-22

Job Ticket: 17127

DST#: 4

ATTN: Ryan Greenbaum

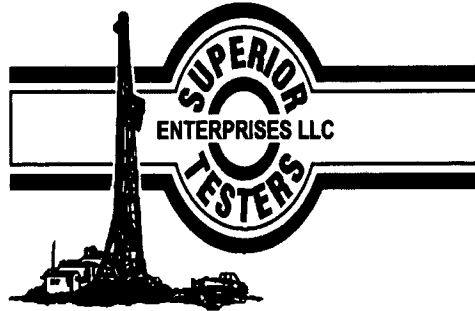
Test Start: 2012.03.15 @ 09:00:00

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
2	10	0.50	2.20	14.84
2	20	0.50	2.50	16.86
2	30	0.50	3.00	20.24
2	40	0.50	3.00	20.24
2	50	0.50	3.00	20.24



DRILL STEM TEST REPORT

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

9431 E Central STE 100 Wichita KS
67206+2563

ATTN: Ryan Greenbaum

Deines #1-22

22-19s-15w Baton

Start Date: 2012.03.16 @ 12:00:00

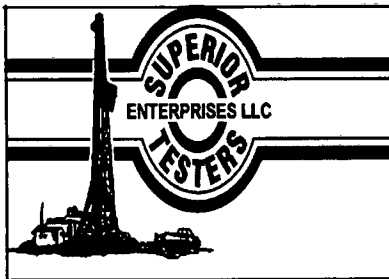
End Date: 2012.03.16 @ 18:40:00

Job Ticket #: 17128 DST #: 5

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

Printed: 2012.03.16 @ 07:24:03

F.G. Holl Company L.L.C 22-19s-15w Baton Deines #1-22 DST # 5 Arbuckle 2012.03.16



DRILL STEM TEST REPORT

F.G. Holl Company L.L.C

22-19s-15w Baton

9431 E Central STE 100 Wichita KS 67206+2563

Deines #1-22

Job Ticket: 17128

DST#: 5

ATTN: Ryan Greenbaum

Test Start: 2012.03.16 @ 12:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:02:30

Time Test Ended: 18:40:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-GB-20

Interval: **3605.00 ft (KB) To 3615.00 ft (KB) (TVD)**

Total Depth: 3615.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1934.00 ft (KB)

1926.00 ft (CF)

KB to GRVCF: 8.00 ft

Serial #: 8524

Press@RunDepth: 32.91 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.03.16

End Date: 2012.03.16

Last Calib.: 2012.03.16

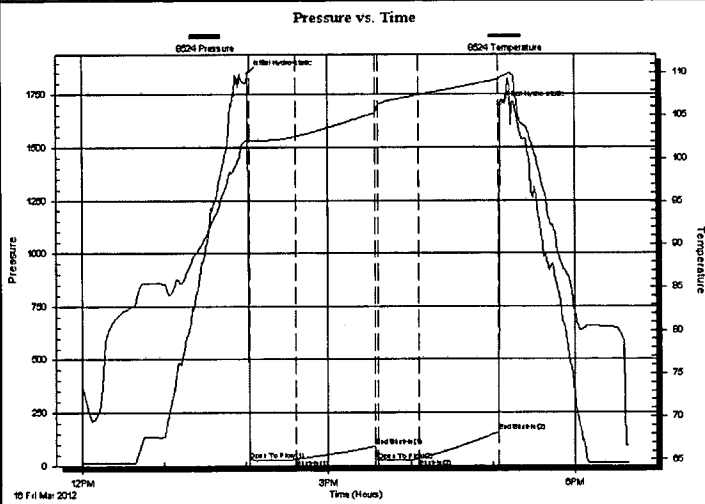
Start Time: 12:00:00

End Time: 18:40:00

Time On Btm: 2012.03.16 @ 14:01:30

Time Off Btm: 2012.03.16 @ 17:05:30

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 3 inches into water in 30 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 30 Minutes-Weak blow built 2 inches into water in 30 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

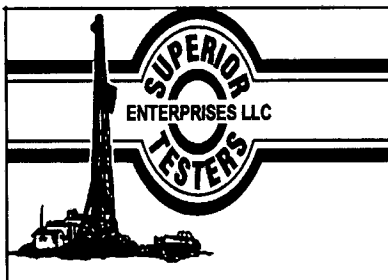
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1849.27	102.12	Initial Hydro-static
1	28.79	101.95	Open To Flow (1)
35	30.85	102.57	Shut-In(1)
93	91.89	105.32	End Shut-In(1)
95	24.24	106.15	Open To Flow (2)
125	32.91	107.42	Shut-In(2)
183	158.07	109.24	End Shut-In(2)
184	1698.46	109.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company L.L.C

22-19s-15w Baton

9431 E Central STE 100 Wichita KS 67206+2563

Deines #1-22

Job Ticket: 17128

DST#: 5

ATTN: Ryan Greenbaum

Test Start: 2012.03.16 @ 12:00:00

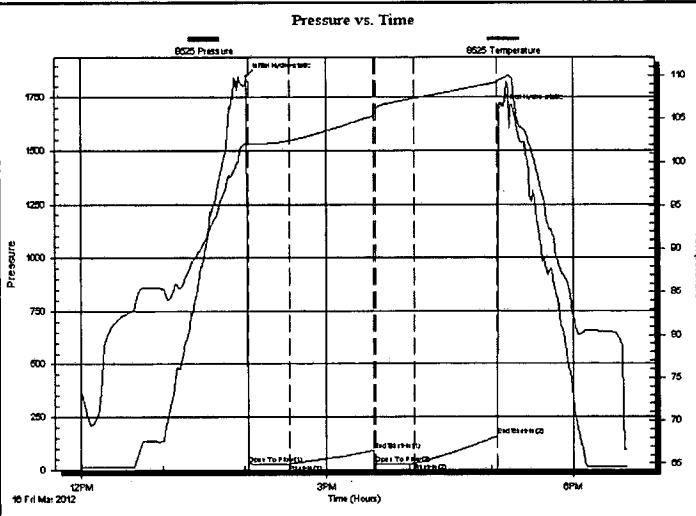
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 14:02:30
 Time Test Ended: 18:40:00
 Interval: **3605.00 ft (KB) To 3615.00 ft (KB) (TVD)**
 Total Depth: **3615.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Jared Scheck**
 Unit No: **3320-GB-20**
 Reference Elevations: **1934.00 ft (KB)**
1926.00 ft (CF)
 KB to GR/CF: **8.00 ft**

Serial #: 8525

Press@RunDepth: **158.07 psia @ ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2012.03.16** End Date: **2012.03.16** Last Calib.: **2012.03.16**
 Start Time: **12:00:00** End Time: **18:40:00** Time On Btm: **2012.03.16 @ 14:01:30**
 Time Off Btm: **2012.03.16 @ 17:05:30**

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 3 inches into water in 30 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 30 Minutes-Weak blow built 2 inches into water in 30 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

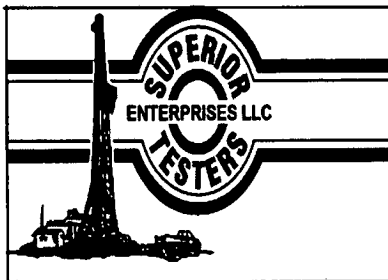
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1849.27	102.12	Initial Hydro-static
1	28.79	101.95	Open To Flow (1)
32	27.32	102.45	Shut-In(1)
93	91.89	105.32	End Shut-In(1)
94	26.64	105.97	Open To Flow (2)
123	29.52	107.36	Shut-In(2)
183	158.07	109.24	End Shut-In(2)
184	1698.46	109.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	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

22-19s-15w Baton

9431 E Central STE 100 Wichita KS 67206+2563

Deines #1-22

Job Ticket: 17128

DST#: 5

ATTN: Ryan Greenbaum

Test Start: 2012.03.16 @ 12:00:00

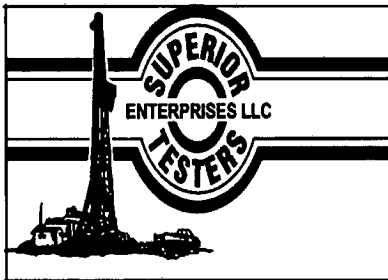
Tool Information

Drill Pipe:	Length: 3612.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 0.00 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3605.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	5.00 ft			
Tool Length:	20.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
SHut-InTool	5.00		Inside	3595.00		
Hydraulic Tool	5.00			3600.00		
Packer	5.00			3605.00	15.00	Bottom Of Top Packer
Anchor	0.00			3605.00		
Recorder	1.00	8524	Inside	3606.00		
Recorder	1.00	8525	Outside	3607.00		
Bullnose	3.00			3610.00	5.00	Anchor Tool

Total Tool Length: 20.00



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company L.L.C

22-19s-15w Baton

9431 E Central STE 100 Wichita KS 67206+2563

Deines #1-22

Job Ticket: 17128

DST#: 5

ATTN: Ryan Greenbaum

Test Start: 2012.03.16 @ 12:00:00

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: 49.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 6400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	Mud	0.000

Total Length:

10.00 ft

Total Volume:

bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

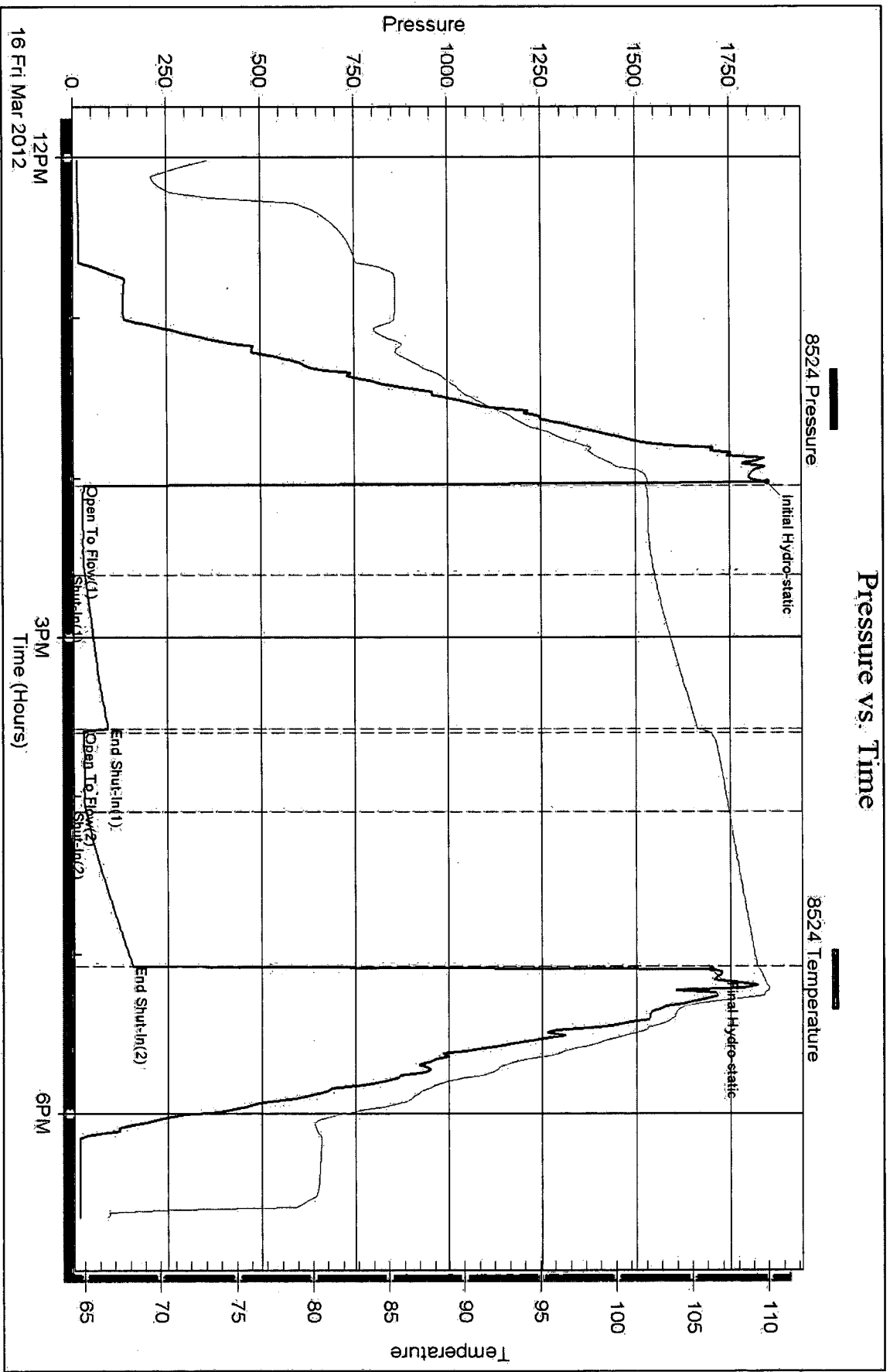
Serial #: 8524

F.G. Hall Company L.L.C

Delines #1-22

DST Test Number: 5

Pressure vs. Time



Superior Testers Enterprises LLC

Ref. No: 17128

Printed: 2012.03.16 @ 07:24:04

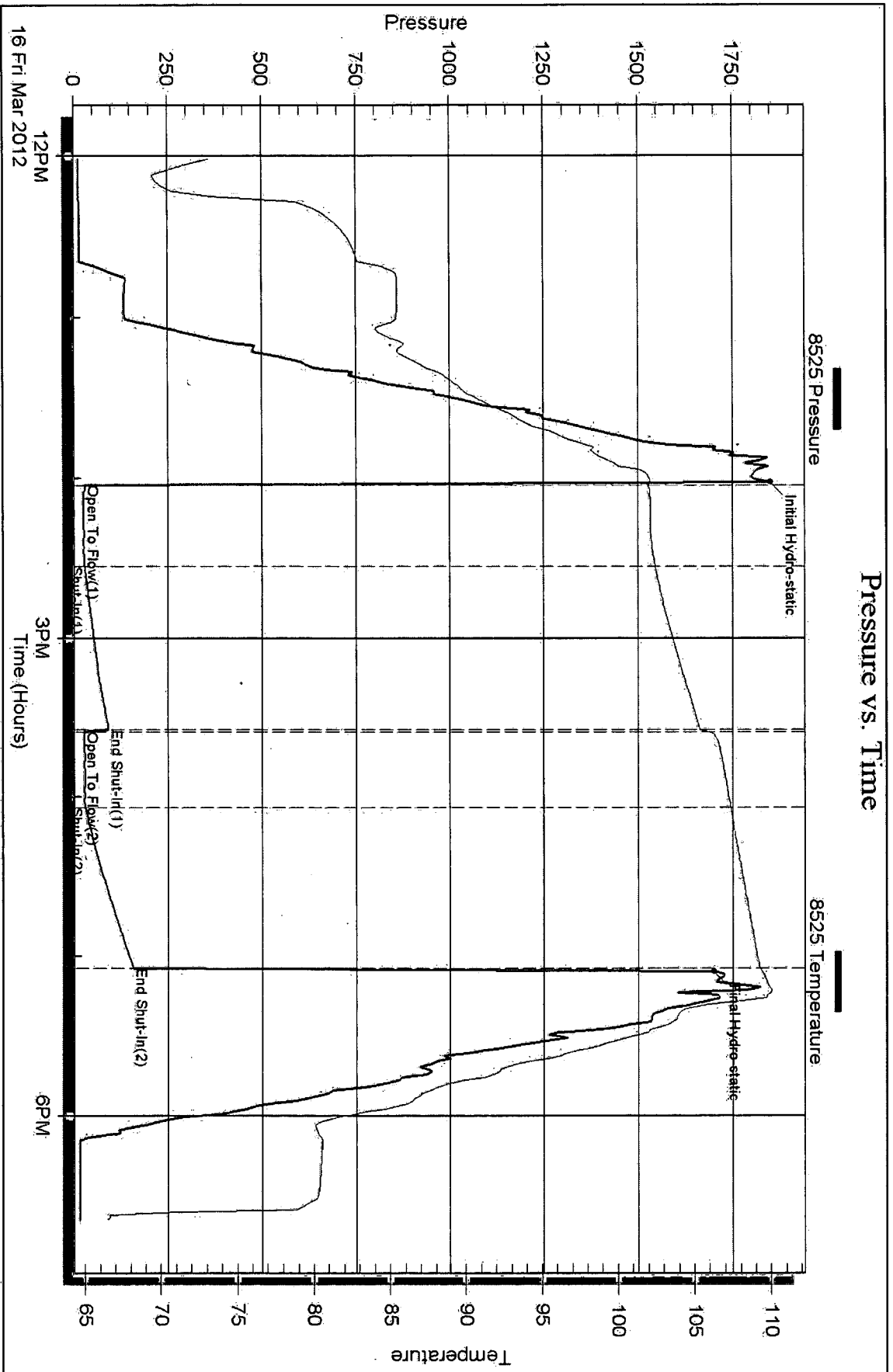
Serial #: 8525

F.G. Hill Company, LLC

Deines #1-22

DST Test Number: 5

Pressure vs. Time



Superior Testers Enterprises LLC

Ref. No: 17128

Printed: 2012.03.16 @ 07:24:04