



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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



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

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

INSTRUCTIONS: Show important tops 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 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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
---	---

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

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

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: _____ _____
---	--	--

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	KRUPP 1-10
Doc ID	1054201

All Electric Logs Run

CDL/CNL
DIL
BHCS
Microresistivity
Frac finder
CPI

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	KRUPP 1-10
Doc ID	1054201

Tops

Name	Top	Datum
Anhydrite	837	+1106
Herrington	1847	+96
Krider	1873	+70
Winfield	1898	+45
Towanda	1965	-22
Fort Riley	2002	-59
B/Florence	2104	-161
Kinney LS	2120	-177
Wrefold	2154	-211
Council Grove	2175	-232
Neva	2356	-413
Red Eagle	2418	-475
Stotler	2727	-784
Heebner	3312	-1369
Lansing	3447	-1504
BKC	3614	-1671
Arbuckle	3798	-1855
RTD	4000	-2057

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



phone: 316-337-6200
fax: 316-337-6211
<http://kcc.ks.gov/>

Thomas E. Wright, Chairman
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

April 19, 2011

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

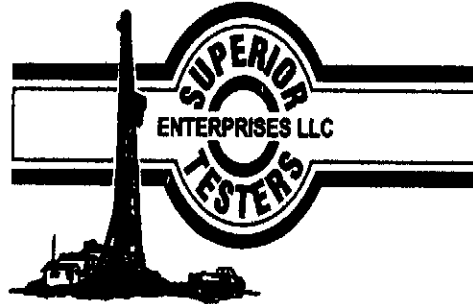
Re: ACO1
API 15-185-23672-00-00
KRUPP 1-10
NE/4 Sec.10-22S-14W
Stafford County, Kansas

Dear Production Department:

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

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

Respectfully,
Franklin R. Greenbaum



DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

10-22s-14w Stafford

Krupp #1-10

Start Date: 2011.03.31 @ 07:00:00

End Date: 2011.03.31 @ 00:00:00

Job Ticket #: 16040 DST #: 5

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

Printed: 2011.04.01 @ 01:10:51

F.G.Holl Company L.L.C. Krupp #1-10 10-22s-14w Stafford DST # 5 Kansas City "J" 2011.03.31

DRILL STEM TEST REPORT

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

Krupp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-14w Stafford

Job Ticket: 16040

DST#: 5

ATTN: Ryan Greenbaum

Test Start: 2011.03.31 @ 07:00:00

GENERAL INFORMATION:

Formation: **Kansas City "J"**

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

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Interval: **3619.00 ft (KB) To 3640.00 ft (KB) (TVD)**

Total Depth: **3640.00 ft (KB) (TVD)**

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

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

Tester: **Gene Budig**

Unit No: **3335-42**

Reference Elevations: **1943.00 ft (KB)**

1935.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: **26180**

Inside

Press@RunDepth: **743.63 psia @ 3636.00 ft (KB)**

Capacity: **5000.00 psia**

Start Date: **2011.03.31** End Date: **2011.03.31**

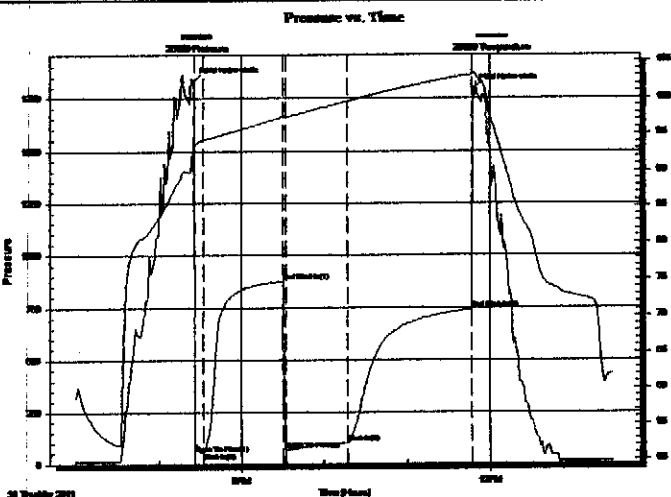
Last Calib.: **2011.03.31**

Start Time: **07:00:30** End Time: **13:30:00**

Time On Btm: **2011.03.31 @ 08:25:30**

Time Off Btm: **2011.03.31 @ 11:48:00**

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1829.10	92.92	Initial Hydro-static
1	50.46	93.28	Open To Flow (1)
8	53.29	94.18	Shut-In(1)
65	876.15	97.32	End Shut-In(1)
67	69.89	97.33	Open To Flow (2)
112	101.29	99.52	Shut-In(2)
202	743.63	103.14	End Shut-In(2)
203	1794.60	103.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
720.00	Gas in the pipe	10.10
180.00	Clean oil to thick to check gravity	2.52
20.00	Heavy oil cut mud 30%Oil 70%Mud	0.28
0.00		0.00

Gas Rates

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

DRILL STEM TEST REPORT

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

Krupp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-14w Stafford

Job Ticket: 16040 DST#: 5

ATTN: Ryan Greenbaum

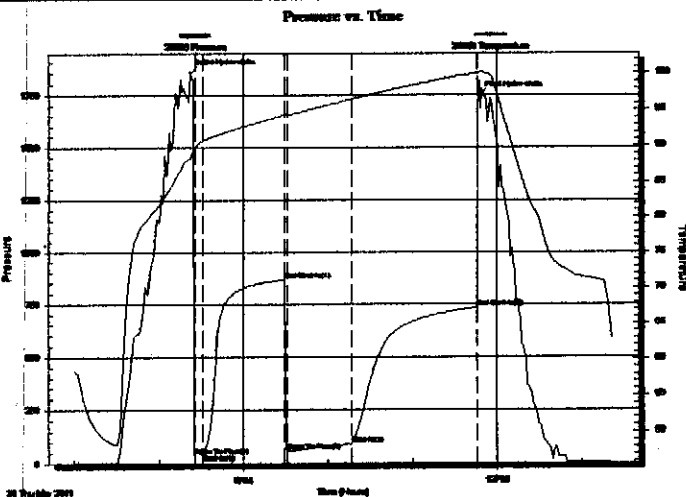
Test Start: 2011.03.31 @ 07:00:00

GENERAL INFORMATION:

Formation: **Kansas City "J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3619.00 ft (KB) To 3640.00 ft (KB) (TVD)**
 Total Depth: **3640.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 3335-42
 Reference Elevations: 1943.00 ft (KB)
 1935.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: **29636** Outside
 Press@RunDepth: 732.93 psia @ 3637.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.03.31 End Date: 2011.03.31 Last Calib.: 2011.03.31
 Start Time: 07:00:30 End Time: 13:22:00 Time On Btm: 2011.03.31 @ 08:22:30
 Time Off Btm: 2011.03.31 @ 11:47:00

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



PRESSURE SUMMARY

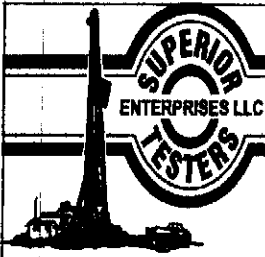
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1851.06	88.21	Initial Hydro-static
3	37.97	89.68	Open To Flow (1)
9	42.69	90.77	Shut-in(1)
67	865.63	94.31	End Shut-in(1)
69	61.04	94.35	Open To Flow (2)
115	92.47	96.50	Shut-in(2)
204	732.93	100.05	End Shut-in(2)
205	1742.47	100.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
720.00	Gas in the pipe	10.10
180.00	Clean oil to thick to check gravity	2.52
20.00	Heavy oil cut mud 30%Oil 70%Mud	0.28
0.00		0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company L.L.C.
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Ryan Greenbaum

Krupp #1-10
10-22s-14w Stafford
 Job Ticket: 16040 DST#: 5
 Test Start: 2011.03.31 @ 07:00:00

Tool Information

Drill Pipe:	Length: 3607.00 ft	Diameter: 3.80 inches	Volume: 50.60 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: 70000.00 lb
			<u>Total Volume: 50.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3619.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3599.00	
Shut-in Tool	5.00			3604.00	
Hydroic Tool	5.00			3609.00	
Packer	5.00			3614.00	21.00 Bottom Of Top Packer
Packer	5.00			3619.00	
Perforations	16.00			3635.00	
Recorder	1.00	91716	Inside	3636.00	
Recorder	1.00	95172	Outside	3637.00	
Bullhose	3.00			3640.00	21.00 Bottom Packers & Anchor
Total Tool Length:	42.00				

DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holt Company L.L.C.

Krupp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-14w Stafford

Job Ticket: 16040

DST#: 5

ATTN: Ryan Greenbaum

Test Start: 2011.03.31 @ 07:00:00

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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 6000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
720.00	Gas in the pipe	10.100
180.00	Clean oil to thick to check gravity	2.525
20.00	Heavy oil cut mud 30%Oil 70%Mud	0.281
0.00		0.000

Total Length: 920.00 ft Total Volume: 12.906 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

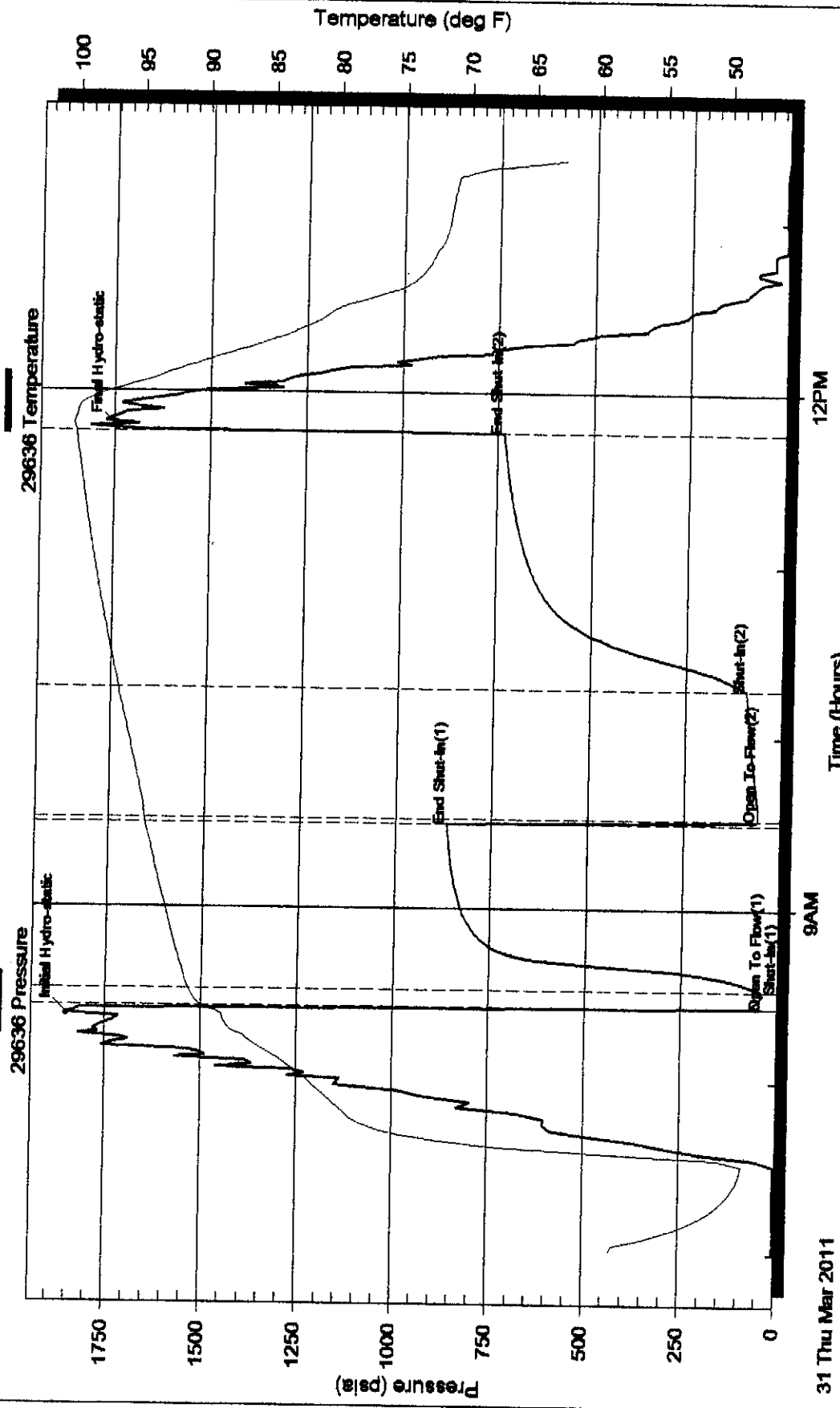
Serial #:

Laboratory Name:

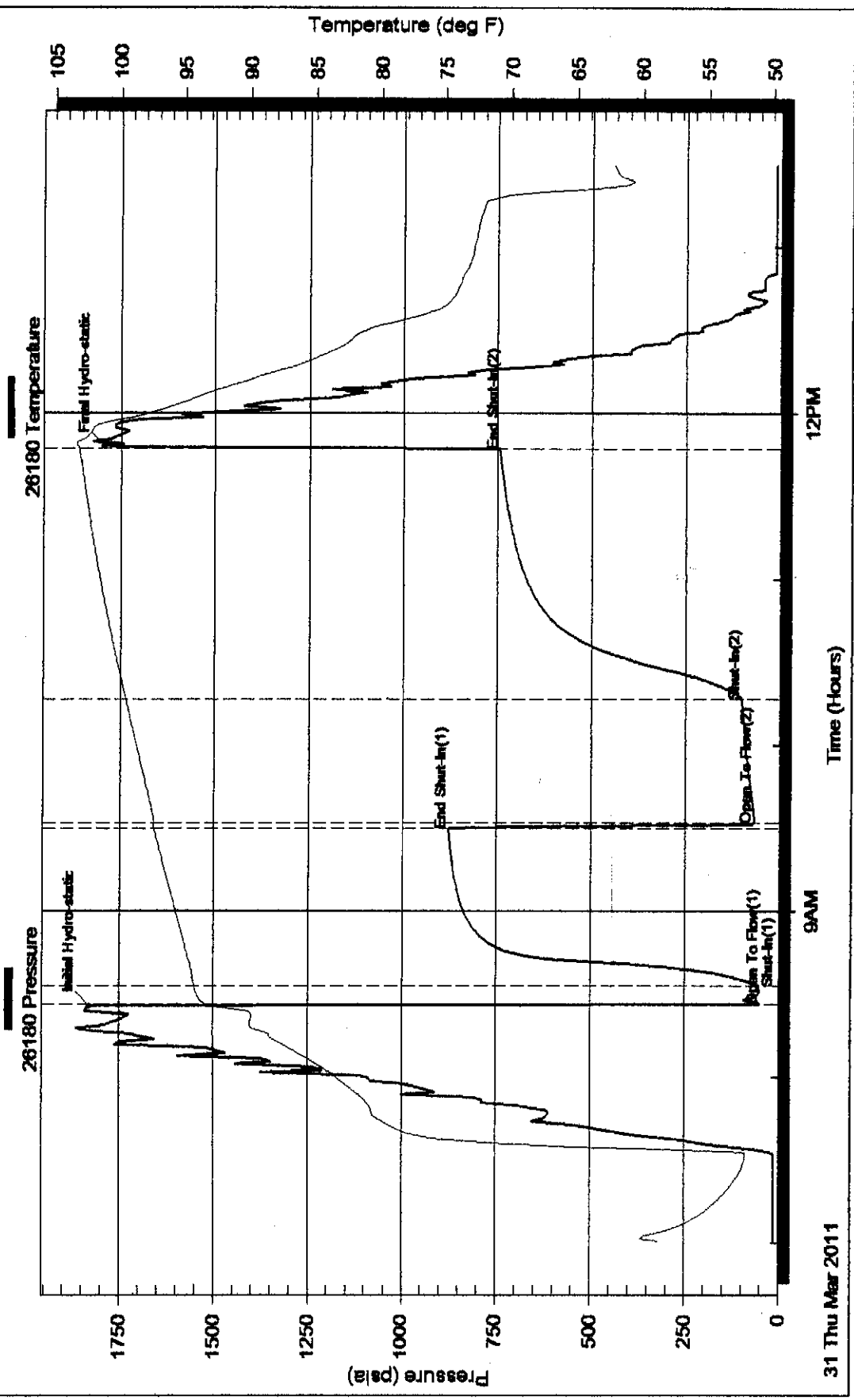
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

10-22s-11w Stafford

Kropp #1-10

Start Date: 2011.03.29 @ 10:30:00

End Date: 2011.03.29 @ 00:00:00

Job Ticket #: 1606 DST #: 1

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

Printed: 2011.03.29 @ 03:07:49

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

Kropp #1-10

10-22s-11w Stafford

DST # 1

Kansas City "A&B"

2011.03.29



DRILL STEM TEST REPORT

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

Kropp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-11w Stafford

Job Ticket: 1606

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2011.03.29 @ 10:30:00

GENERAL INFORMATION:

Formation: **Kansas City "A&B"**

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: 3335-42

Interval: 3444.00 ft (KB) To 3485.00 ft (KB) (TVD)

Reference Elevations: 1943.00 ft (KB)

Total Depth: 3485.00 ft (KB) (TVD)

1935.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 26180 Inside

Press @ RunDepth: 1038.81 psia @ 3481.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.03.29 End Date: 2011.03.29

Last Calib.: 2011.03.29

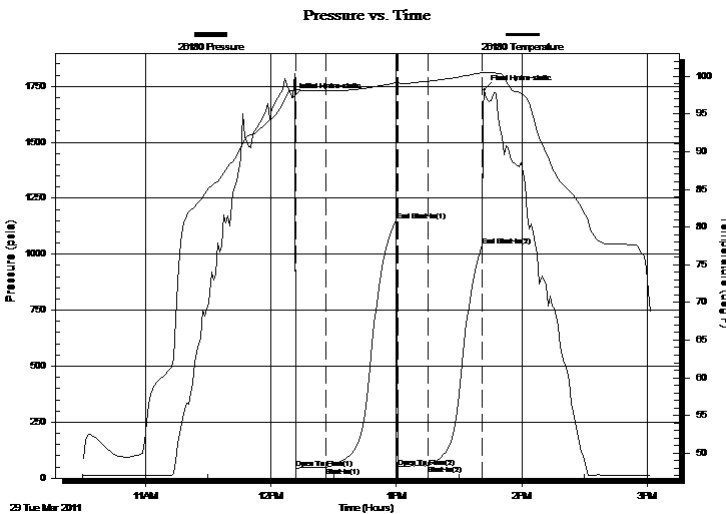
Start Time: 10:30:00 End Time: 15:01:59

Time On Btm: 2011.03.29 @ 12:10:30

Time Off Btm: 2011.03.29 @ 13:42:00

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

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1700.75	98.17	Initial Hydro-static
2	43.53	98.27	Open To Flow (1)
16	49.80	98.06	Shut-In(1)
50	1148.99	99.13	End Shut-In(1)
50	47.94	99.11	Open To Flow (2)
65	55.71	99.34	Shut-In(2)
91	1038.81	100.48	End Shut-In(2)
92	1734.78	100.49	Final Hydro-static

Recovery

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

Gas Rates

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



DRILL STEM TEST REPORT

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

Kropp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-11w Stafford

Job Ticket: 1606

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2011.03.29 @ 10:30:00

GENERAL INFORMATION:

Formation: **Kansas City "A&B"**

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: 3335-42

Interval: 3444.00 ft (KB) To 3485.00 ft (KB) (TVD)

Reference Elevations: 1943.00 ft (KB)

Total Depth: 3485.00 ft (KB) (TVD)

1935.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 29636 Outside

Press @ RunDepth: 1025.01 psia @ 3482.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.03.29 End Date: 2011.03.29

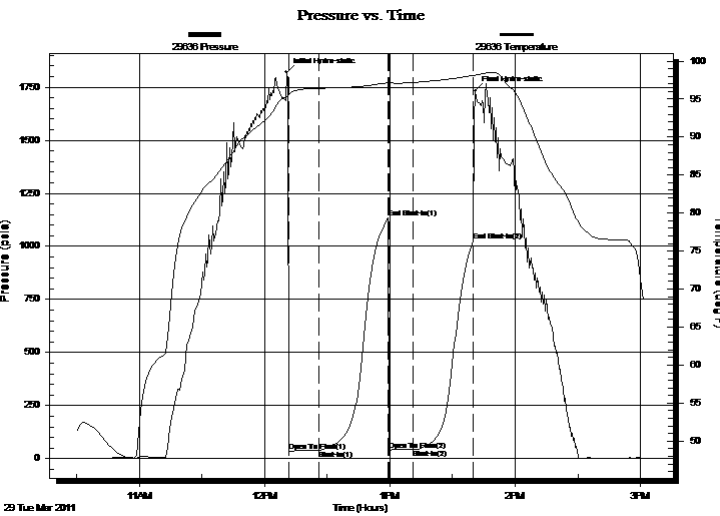
Last Calib.: 2011.03.29

Start Time: 10:30:00 End Time: 15:01:59

Time On Btm: 2011.03.29 @ 12:10:30

Time Off Btm: 2011.03.29 @ 13:41:00

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1819.94	95.37	Initial Hydro-static
1	33.48	95.63	Open To Flow (1)
16	39.86	96.41	Shut-In(1)
49	1136.33	97.13	End Shut-In(1)
49	38.27	97.14	Open To Flow (2)
61	44.48	97.18	Shut-In(2)
90	1025.01	98.11	End Shut-In(2)
91	1732.28	98.16	Final Hydro-static

Recovery

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

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

Kropp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-11w Stafford

ATTN: Ryan Greenbaum

Job Ticket: 1606

DST#: 1

Test Start: 2011.03.29 @ 10:30:00

Tool Information

Drill Pipe:	Length: 3443.00 ft	Diameter: 3.80 inches	Volume: 48.30 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:	45000.00 lb
			<u>Total Volume: 48.30 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3444.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	41.00 ft				
Tool Length:	70.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

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

Change Over Sub	1.00			3416.00	
Shut-In Tool	5.00			3421.00	
Hydroic Tool	5.00			3426.00	
Jars	6.00			3432.00	
Safety Joint	2.00			3434.00	
Packer	5.00			3439.00	29.00 Bottom Of Top Packer
Packer	5.00			3444.00	
Perforations	36.00			3480.00	
Recorder	1.00	91716	Inside	3481.00	
Recorder	1.00	95172	Outside	3482.00	
Bullnose	3.00			3485.00	41.00 Bottom Packers & Anchor

Total Tool Length: 70.00



DRILL STEM TEST REPORT

FLUID SUMMARY

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

Kropp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-11w Stafford

Job Ticket: 1606

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2011.03.29 @ 10:30:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 53.00 sec/qt
Water Loss: 7.20 in³
Resistivity: ohm.m
Salinity: 3300.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Drilling Mud	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

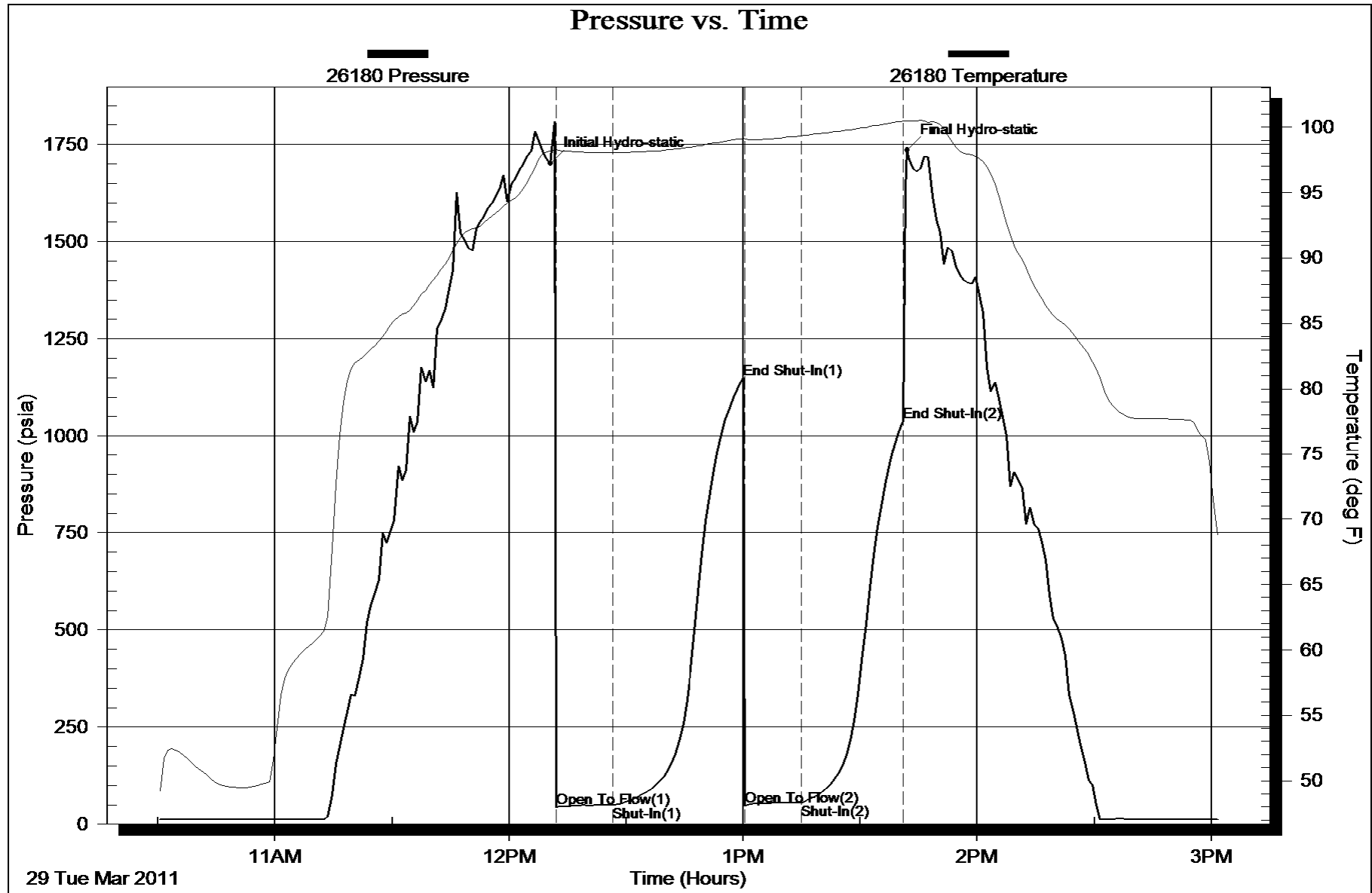
Num Gas Bombs: 0

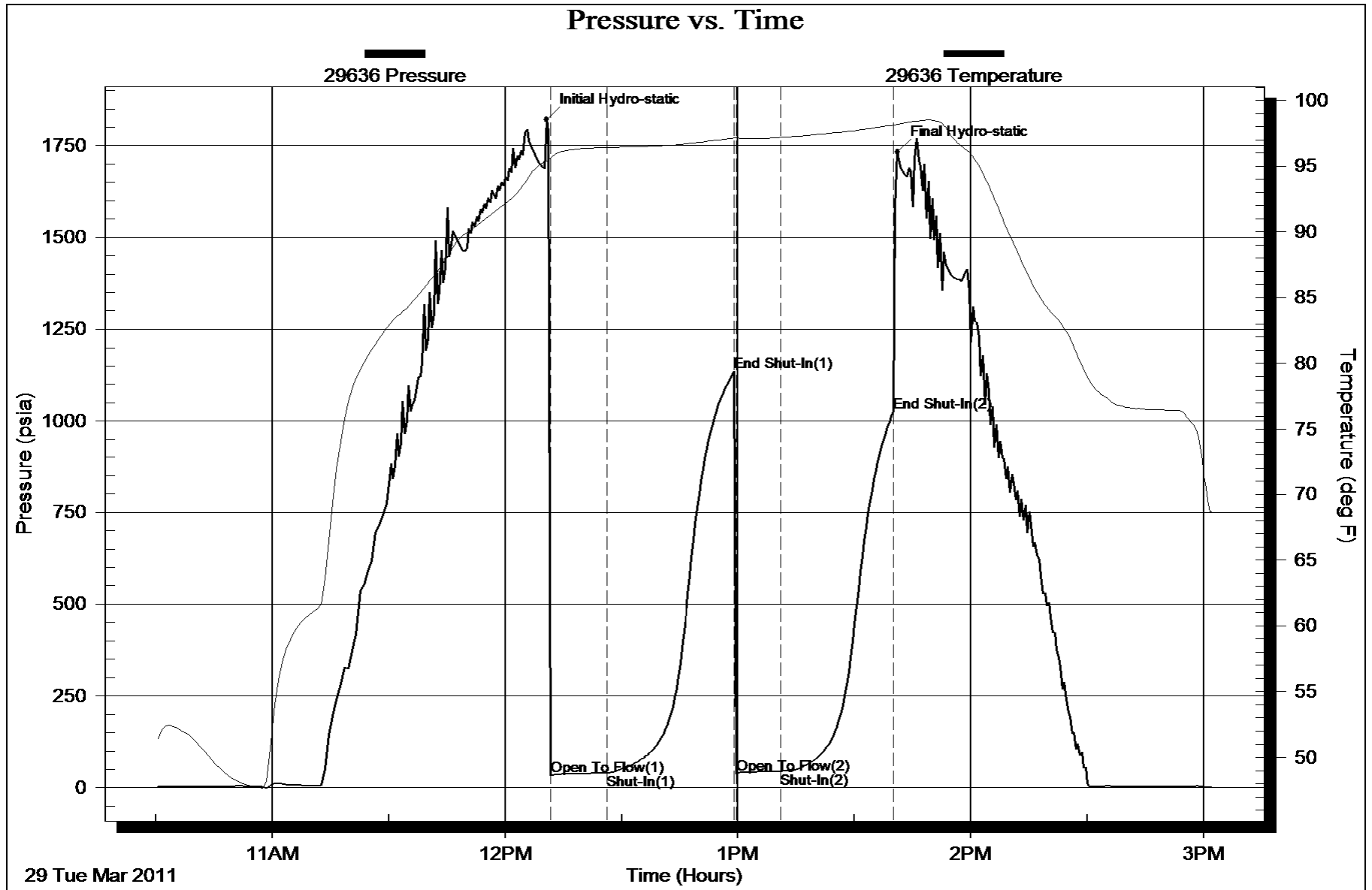
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

10-22s-11w Stafford

Kropp #1-10

Start Date: 2011.03.29 @ 11:45:00

End Date: 2011.03.29 @ 00:00:00

Job Ticket #: 16037 DST #: 2

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

Printed: 2011.03.29 @ 17:55:56



DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Ryan Greenbaum

Kropp #1-10
10-22s-11w Stafford
 Job Ticket: 16037 **DST#: 2**
 Test Start: 2011.03.29 @ 11:45:00

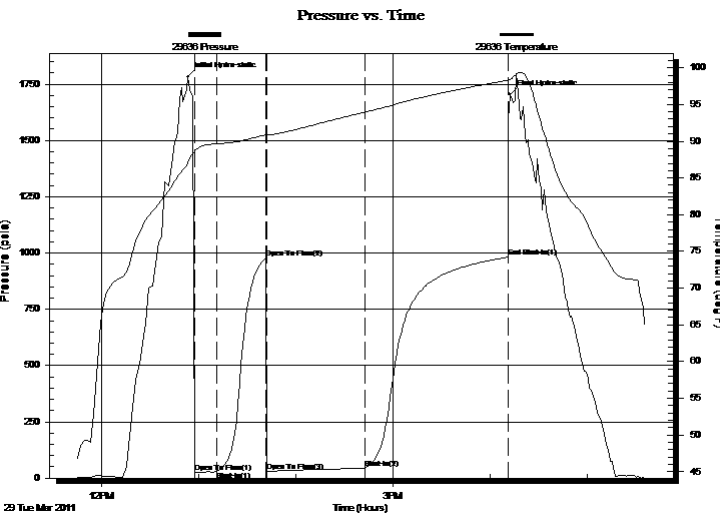
GENERAL INFORMATION:

Formation: **Kansas City "F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3503.00 ft (KB) To 3525.00 ft (KB) (TVD)**
 Total Depth: 3525.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 3335-42
 Reference Elevations: 1943.00 ft (KB)
 1935.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 29636 Outside

Press @ Run Depth: 981.34 psia @ 3522.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.03.29 End Date: 2011.03.29 Last Calib.: 2011.03.29
 Start Time: 11:45:00 End Time: 17:36:00 Time On Btm: 2011.03.29 @ 12:53:30
 Time Off Btm: 2011.03.29 @ 16:12:30

TEST COMMENT: 1st Opening 15 Minutes-Weak blow for 10 minutes and died
 1st Shut-In 30 Minutes-No blow back
 2nd Opening 60 Minutes-Weak building blow built to 7 1/2 inches into the water
 2nd Shut-In 90 Minutes -No blw back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1781.66	87.08	Initial Hydro-static
4	27.43	88.56	Open To Flow (1)
18	28.90	89.64	Shut-In(1)
49	977.98	90.85	Open To Flow (2)
49	29.65	90.88	Open To Flow (3)
109	43.81	93.94	Shut-In(2)
198	981.34	98.28	End Shut-In(1)
199	1705.09	98.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Gas in the pipe	1.68
50.00	Oil Cut Mud	0.70
0.00	20% Oil 14% water 66% Mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

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

Kropp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-11w Stafford

ATTN: Ryan Greenbaum

Job Ticket: 16037

DST#: 2

Test Start: 2011.03.29 @ 11:45:00

GENERAL INFORMATION:

Formation: **Kansas City "F"**

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: 3335-42

Interval: 3503.00 ft (KB) To 3525.00 ft (KB) (TVD)

Reference Elevations: 1943.00 ft (KB)

Total Depth: 3525.00 ft (KB) (TVD)

1935.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 26180 Inside

Press @ Run Depth: 992.40 psia @ 3521.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.03.29 End Date: 2011.03.29

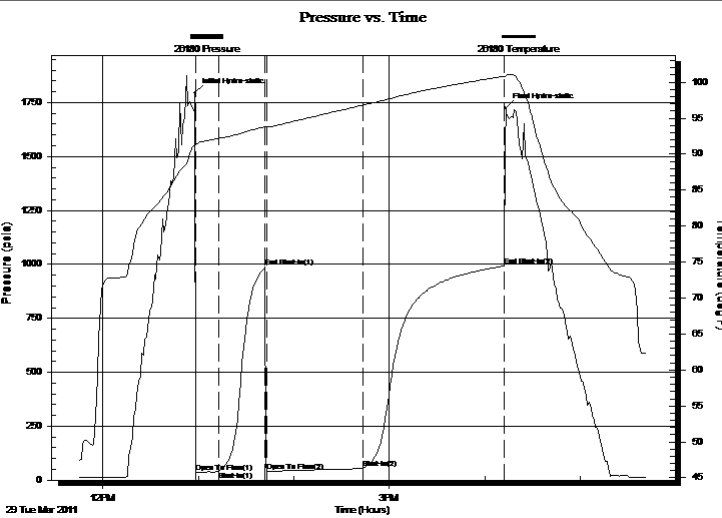
Last Calib.: 2011.03.29

Start Time: 11:45:00 End Time: 17:41:30

Time On Btm: 2011.03.29 @ 12:58:00

Time Off Btm: 2011.03.29 @ 16:13:00

TEST COMMENT: 1st Opening 15 Minutes-Weak blow for 10 minutes and died
 1st Shut-In 30 Minutes-No blow back
 2nd Opening 60 Minutes-Weak building blow built to 7 1/2 inches into the water
 2nd Shut-In 90 Minutes -No blw back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1794.39	91.32	Initial Hydro-static
1	34.97	91.38	Open To Flow (1)
15	40.34	92.16	Shut-In(1)
44	987.14	93.83	End Shut-In(1)
45	39.28	93.85	Open To Flow (2)
106	53.18	96.82	Shut-In(2)
194	992.40	100.83	End Shut-In(2)
195	1724.91	100.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Gas in the pipe	1.68
50.00	Oil Cut Mud	0.70
0.00	20% Oil 14% water 66% 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.

Kropp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-11w Stafford

ATTN: Ryan Greenbaum

Job Ticket: 16037

DST#: 2

Test Start: 2011.03.29 @ 11:45:00

Tool Information

Drill Pipe:	Length: 3502.00 ft	Diameter: 3.80 inches	Volume: 49.12 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: 52000.00 lb
			<u>Total Volume: 49.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3503.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3475.00	
Shut-In Tool	5.00			3480.00	
Hydroic Tool	5.00			3485.00	
Jars	6.00			3491.00	
Safety Joint	2.00			3493.00	
Packer	5.00			3498.00	29.00 Bottom Of Top Packer
Packer	5.00			3503.00	
Perforations	17.00			3520.00	
Recorder	1.00	91716	Inside	3521.00	
Recorder	1.00	95172	Outside	3522.00	
Bullnose	3.00			3525.00	22.00 Bottom Packers & Anchor

Total Tool Length: 51.00



DRILL STEM TEST REPORT

FLUID SUMMARY

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

Kropp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-11w Stafford

Job Ticket: 16037

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2011.03.29 @ 11:45:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 69.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 5900.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Gas in the pipe	1.683
50.00	Oil Cut Mud	0.701
0.00	20% Oil 14% water 66% Mud	0.000

Total Length: 170.00 ft Total Volume: 2.384 bbl

Num Fluid Samples: 0

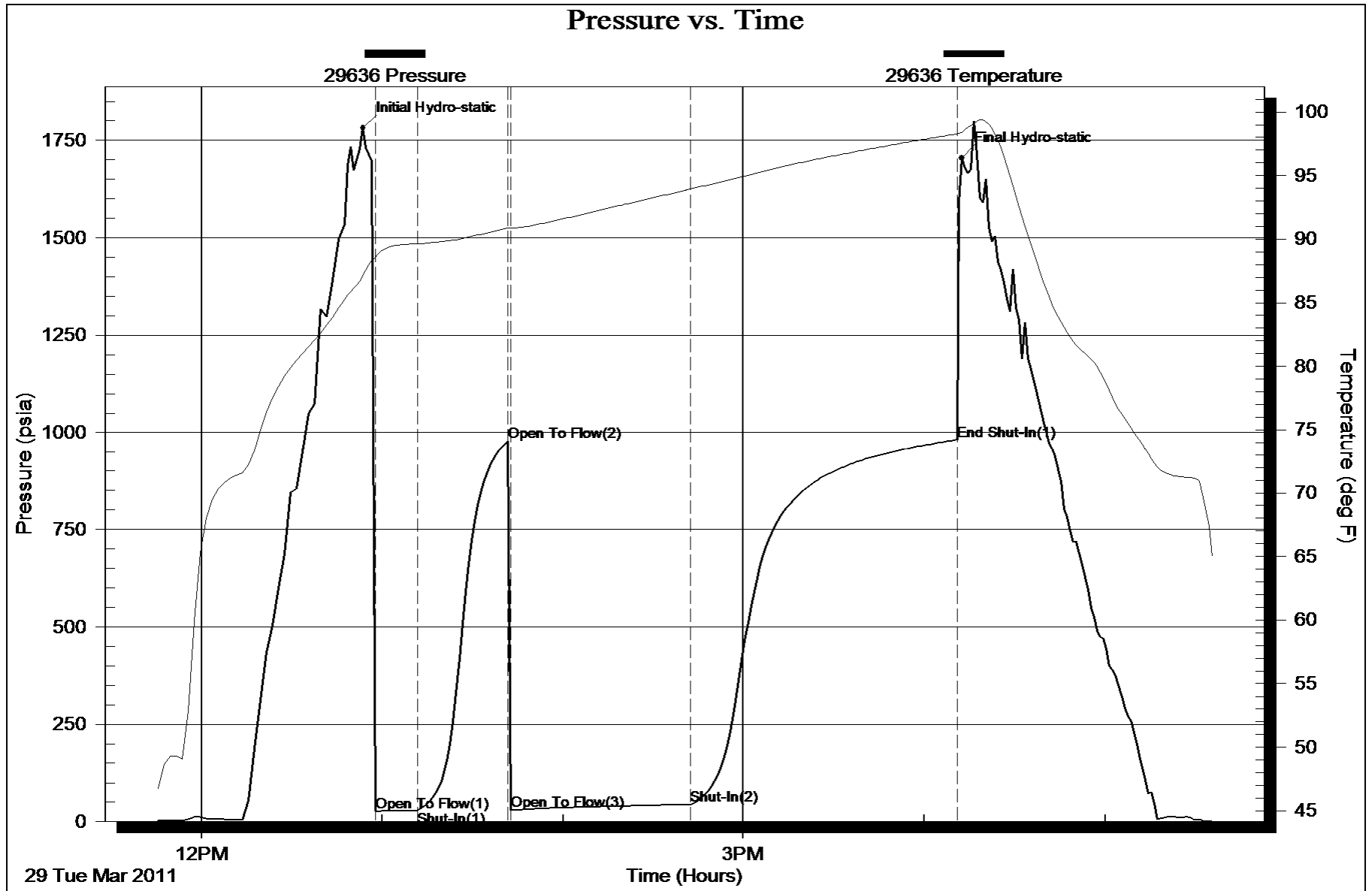
Num Gas Bombs: 0

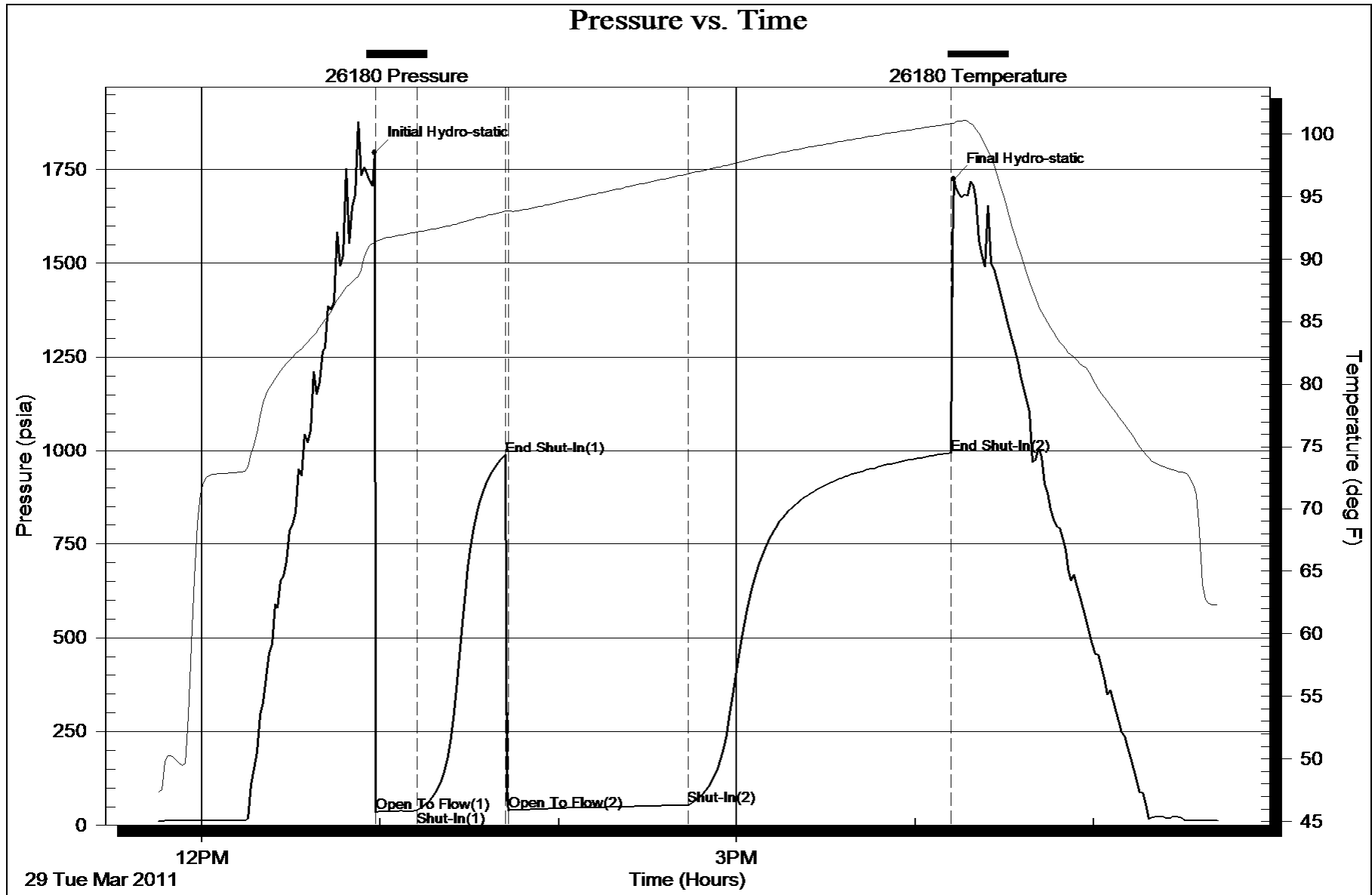
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

10-22s-14w Stafford

Kropp #1-10

Start Date: 2011.03.30 @ 05:10:00

End Date: 2011.03.30 @ 00:00:00

Job Ticket #: 16038 DST #: 3

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

Printed: 2011.03.30 @ 11:18:29



DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Ryan Greenbaum

Kropp #1-10
10-22s-14w Stafford
 Job Ticket: 16038 **DST#: 3**
 Test Start: 2011.03.30 @ 05:10:00

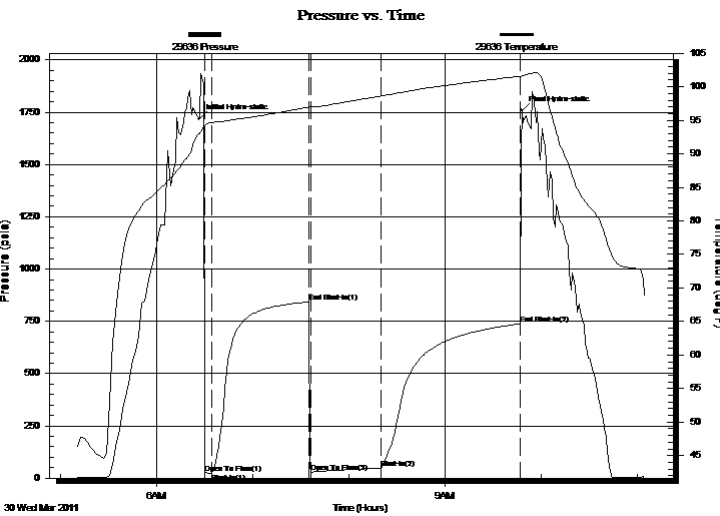
GENERAL INFORMATION:

Formation: **Kanas City "I"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3585.00 ft (KB) To 3600.00 ft (KB) (TVD)**
 Total Depth: 3600.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 423335-
 Reference Elevations: 1943.00 ft (KB)
 1935.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 29636 Outside

Press @ Run Depth: 738.18 psia @ 3597.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.03.30 End Date: 2011.03.30 Last Calib.: 2011.03.30
 Start Time: 05:10:00 End Time: 11:05:00 Time On Btm: 2011.03.30 @ 06:26:30
 Time Off Btm: 2011.03.30 @ 09:48:00

TEST COMMENT: 1st Opening 5 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 3 1/2 minutes
 1st Shut-In 60 Minutes-No blow back
 2nd Shut-In 45 nMinutes-Good blow built to the bottom of a 5 gallon bucket in 3 minutes
 2nd Shut-In 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1717.22	93.05	Initial Hydro-static
4	25.30	94.21	Open To Flow (1)
8	23.52	94.68	Shut-In(1)
69	842.76	96.96	End Shut-In(1)
70	27.43	96.99	Open To Flow (2)
114	48.66	98.61	Shut-In(2)
201	738.18	101.57	End Shut-In(2)
202	1758.78	101.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1200.00	Gas in the pipe	16.83
45.00	Clean Gassy Oil-Gravity 34 Corrected	0.63
20.00	Oil cut mud	0.28
0.00	50%MJud 40%Oil 10%Gas	0.00

Gas Rates

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



DRILL STEM TEST REPORT

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

Kropp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-14w Stafford

Job Ticket: 16038

DST#: 3

ATTN: Ryan Greenbaum

Test Start: 2011.03.30 @ 05:10:00

GENERAL INFORMATION:

Formation: **Kanas City "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 423335-

Interval: 3585.00 ft (KB) To 3600.00 ft (KB) (TVD)

Reference Elevations: 1943.00 ft (KB)

Total Depth: 3600.00 ft (KB) (TVD)

1935.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 26180 Inside

Press @ RunDepth: 749.04 psia @ 3596.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.03.30

End Date: 2011.03.30

Last Calib.: 2011.03.30

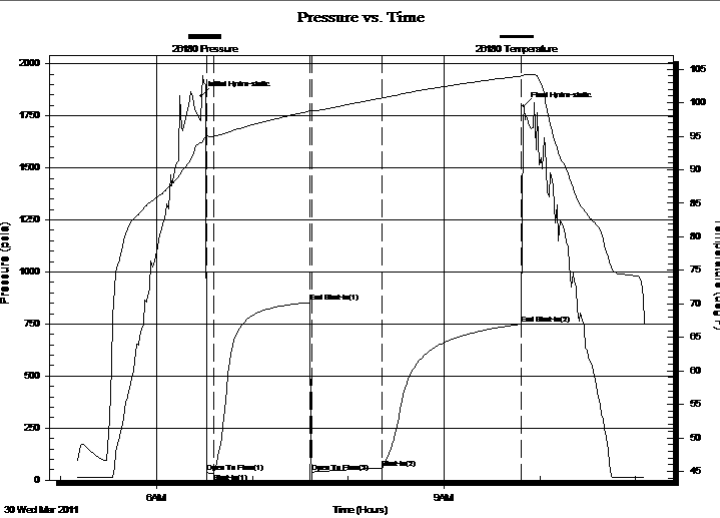
Start Time: 05:10:00

End Time: 11:06:30

Time On Btm: 2011.03.30 @ 06:28:00

Time Off Btm: 2011.03.30 @ 09:50:00

TEST COMMENT: 1st Opening 5 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 3 1/2 minutes
 1st Shut-In 60 Minutes-No blow back
 2nd Shut-In 45 nMinutes-Good blow built to the bottom of a 5 gallon bucket in 3 minutes
 2nd Shut-In 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1845.43	94.09	Initial Hydro-static
3	35.44	95.06	Open To Flow (1)
8	34.01	95.02	Shut-In(1)
68	853.48	98.78	End Shut-In(1)
69	37.27	98.79	Open To Flow (2)
113	58.37	100.71	Shut-In(2)
201	749.04	104.01	End Shut-In(2)
202	1796.84	104.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1200.00	Gas in the pipe	16.83
45.00	Clean Gassy Oil-Gravity 34 Corrected	0.63
20.00	Oil cut mud	0.28
0.00	50%MJud 40%Oil 10%Gas	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.

Kropp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-14w Stafford

Job Ticket: 16038

DST#: 3

ATTN: Ryan Greenbaum

Test Start: 2011.03.30 @ 05:10:00

Tool Information

Drill Pipe:	Length: 3569.00 ft	Diameter: 3.80 inches	Volume: 50.06 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:	52000.00 lb
			<u>Total Volume: 50.06 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3585.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	15.00 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
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3557.00	
Shut-In Tool	5.00			3562.00	
Hydroic Tool	5.00			3567.00	
Jars	6.00			3573.00	
Safety Joint	2.00			3575.00	
Packer	5.00			3580.00	29.00 Bottom Of Top Packer
Packer	5.00			3585.00	
Perforations	10.00			3595.00	
Recorder	1.00	91716	Inside	3596.00	
Recorder	1.00	95172	Outside	3597.00	
Bullnose	3.00			3600.00	15.00 Bottom Packers & Anchor

Total Tool Length: 44.00



DRILL STEM TEST REPORT

FLUID SUMMARY

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

Kropp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-14w Stafford

Job Ticket: 16038

DST#: 3

ATTN: Ryan Greenbaum

Test Start: 2011.03.30 @ 05:10:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 69.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 5700.00 ppm
Filter Cake: inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1200.00	Gas in the pipe	16.833
45.00	Clean Gassy Oil-Gravity 34 Corrected	0.631
20.00	Oil cut mud	0.281
0.00	50%MJud 40%Oil 10%Gas	0.000

Total Length: 1265.00 ft Total Volume: 17.745 bbl

Num Fluid Samples: 0

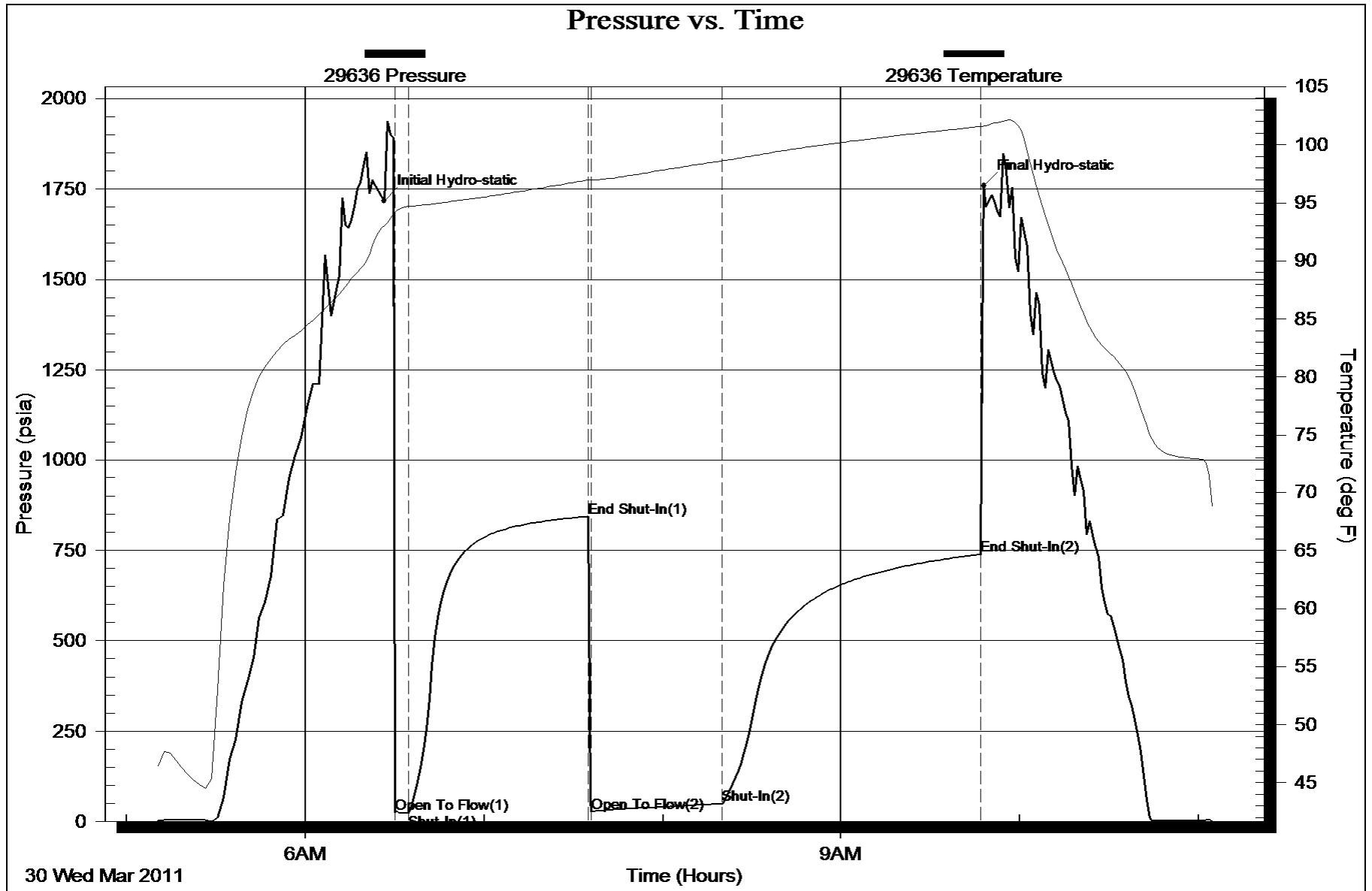
Num Gas Bombs: 0

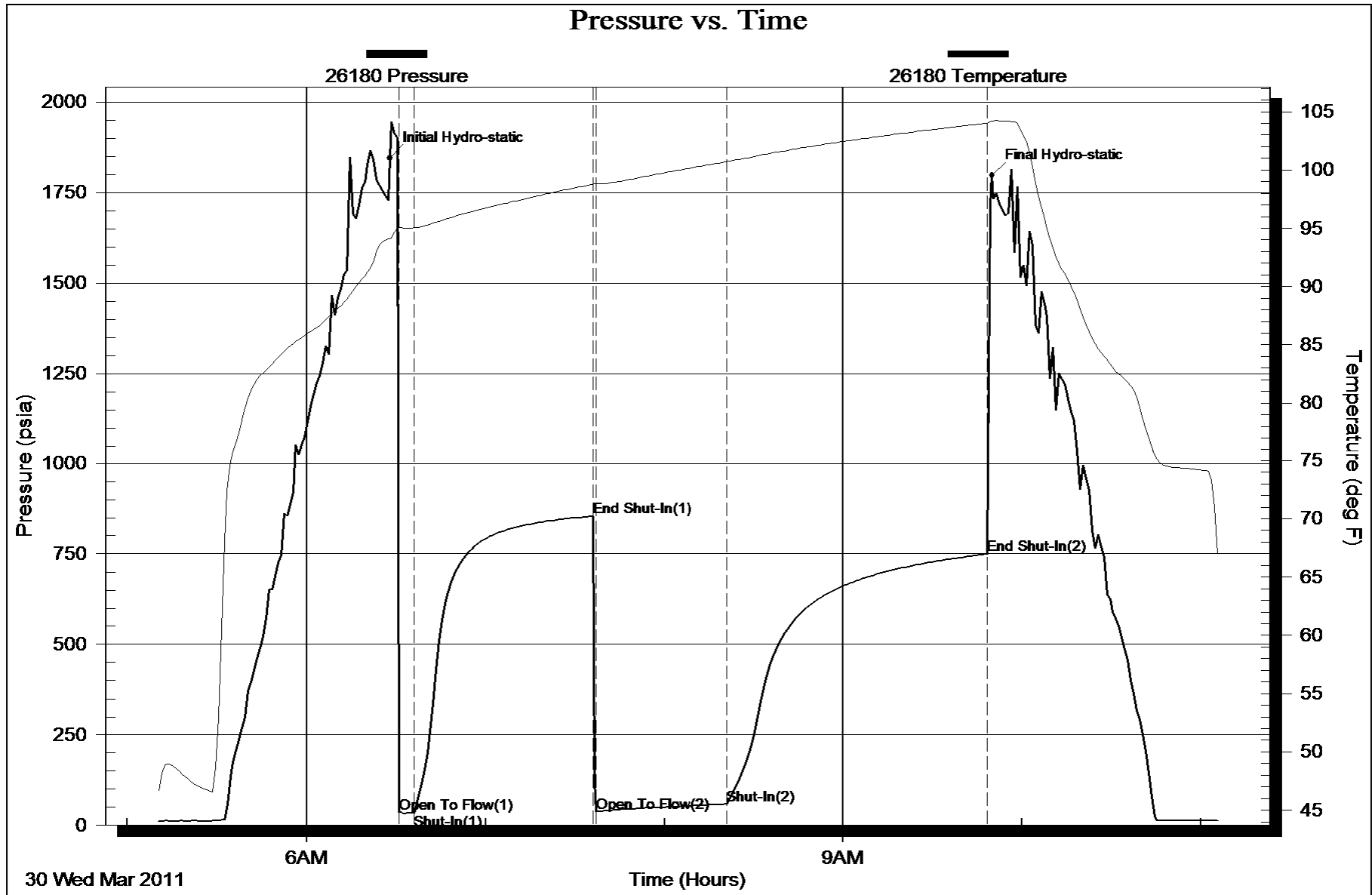
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

10-22s-14w Stafford

Krupp #1-10

Start Date: 2011.03.30 @ 00:00:00

End Date: 2011.03.30 @ 00:00:00

Job Ticket #: 16039 DST #: 4

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

Printed: 2011.03.30 @ 23:11:57



DRILL STEM TEST REPORT

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

Krupp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-14w Stafford

Job Ticket: 16039

DST#: 4

ATTN: Ryan Greenbaum

Test Start: 2011.03.30 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City" J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335-42

Interval: 3599.00 ft (KB) To 3614.00 ft (KB) (TVD)

Reference Elevations: 1943.00 ft (KB)

Total Depth: 3614.00 ft (KB) (TVD)

1935.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 26180 Inside

Press @ RunDepth: 720.18 psia @ 3615.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.03.30

End Date: 2011.03.30

Last Calib.: 2011.03.30

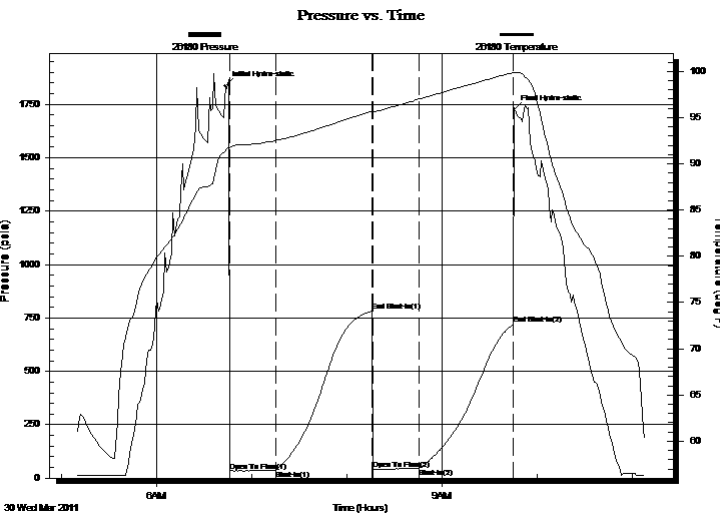
Start Time: 05:10:00

End Time: 11:07:29

Time On Btm: 2011.03.30 @ 06:43:29

Time Off Btm: 2011.03.30 @ 09:45:30

TEST COMMENT: 1st Opening 30 Minutes-Weak building blow built to 4 inches into the water and started decreasing
1st Shut-In 60 Minutes-No blow back
2nd Opening 30 Minutes-Weak steady 1/2 inch blow
2nd Shut-In 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1837.57	91.39	Initial Hydro-static
3	33.19	91.72	Open To Flow (1)
33	36.62	92.53	Shut-In(1)
93	780.97	95.67	End Shut-In(1)
94	39.99	95.67	Open To Flow (2)
123	44.65	97.00	Shut-In(2)
182	720.18	99.86	End Shut-In(2)
183	1727.33	99.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
350.00	Gas in the pipe	4.91
50.00	Heavy oil cut mud	0.70
0.00	70% Mud 30% Oil	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Ryan Greenbaum

Krupp #1-10
10-22s-14w Stafford
 Job Ticket: 16039 **DST#: 4**
 Test Start: 2011.03.30 @ 00:00:00

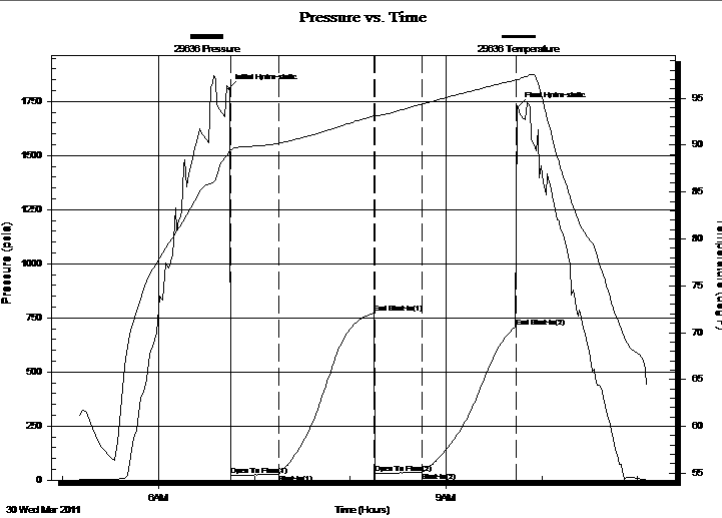
GENERAL INFORMATION:

Formation: **Kansas City" J "**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:00:00 Tester: Gene Budig
 Time Test Ended: 00:00:00 Unit No: 3335-42
 Interval: **3599.00 ft (KB) To 3614.00 ft (KB) (TVD)** Reference Elevations: 1943.00 ft (KB)
 Total Depth: 3614.00 ft (KB) (TVD) 1935.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 29636 Outside

Press @ Run Depth: 708.47 psia @ 3616.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.03.30 End Date: 2011.03.30 Last Calib.: 2011.03.30
 Start Time: 05:10:00 End Time: 11:05:59 Time On Btm: 2011.03.30 @ 06:44:00
 Time Off Btm: 2011.03.30 @ 09:45:00

TEST COMMENT: 1st Opening 30 Minutes-Weak building blow built to 4 inches into the water and started decreasing
 1st Shut-In 60 Minutes-No blow back
 2nd Opening 30 Minutes-Weak steady 1/2 inch blow
 2nd Shut-In 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1808.85	89.31	Initial Hydro-static
1	23.00	89.49	Open To Flow (1)
31	27.97	90.20	Shut-In(1)
91	770.43	93.11	End Shut-In(1)
92	30.65	93.15	Open To Flow (2)
121	36.21	94.38	Shut-In(2)
180	708.47	96.95	End Shut-In(2)
181	1724.53	97.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
350.00	Gas in the pipe	4.91
50.00	Heavy oil cut mud	0.70
0.00	70% Mud 30% Oil	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.

Krupp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-14w Stafford

Job Ticket: 16039

DST#: 4

ATTN: Ryan Greenbaum

Test Start: 2011.03.30 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3596.00 ft	Diameter: 3.80 inches	Volume: 50.44 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: 2.76 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 50.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3599.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			3571.00	
Shut-In Tool	5.00			3576.00	
Hydroic Tool	5.00			3581.00	
Jars	6.00			3587.00	
Safety Joint	2.00			3589.00	
Packer	5.00			3594.00	29.00 Bottom Of Top Packer
Packer	5.00			3599.00	
Perforations	15.00			3614.00	
Recorder	1.00	91716	Inside	3615.00	
Recorder	1.00	95172	Outside	3616.00	
Bullnose	3.00			3619.00	20.00 Bottom Packers & Anchor

Total Tool Length: 49.00



DRILL STEM TEST REPORT

FLUID SUMMARY

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

Krupp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-14w Stafford

Job Ticket: 16039

DST#: 4

ATTN: Ryan Greenbaum

Test Start: 2011.03.30 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 69.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 5700.00 ppm
Filter Cake: inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
350.00	Gas in the pipe	4.910
50.00	Heavy oil cut mud	0.701
0.00	70% Mud 30% Oil	0.000

Total Length: 400.00 ft Total Volume: 5.611 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

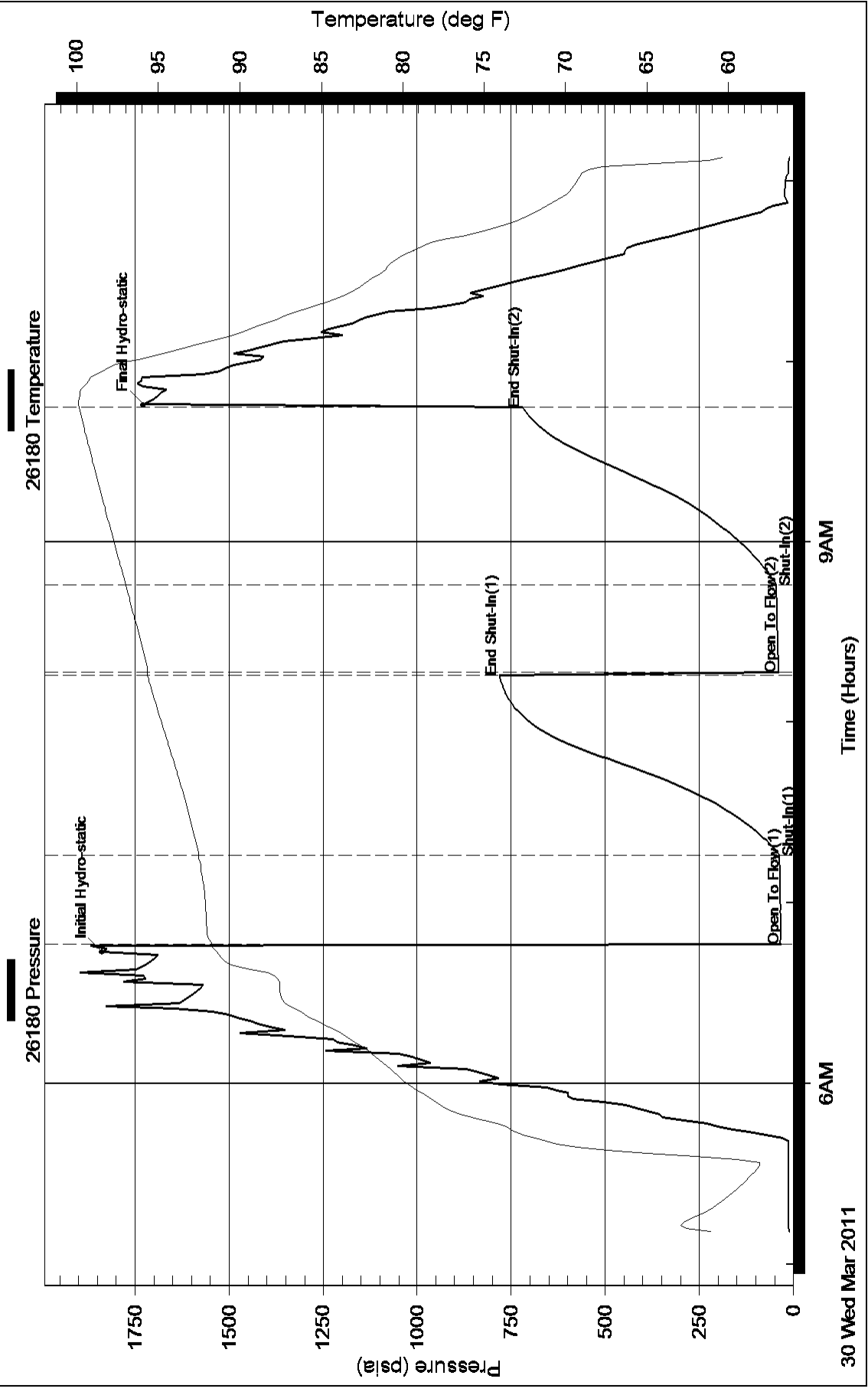
Serial #:

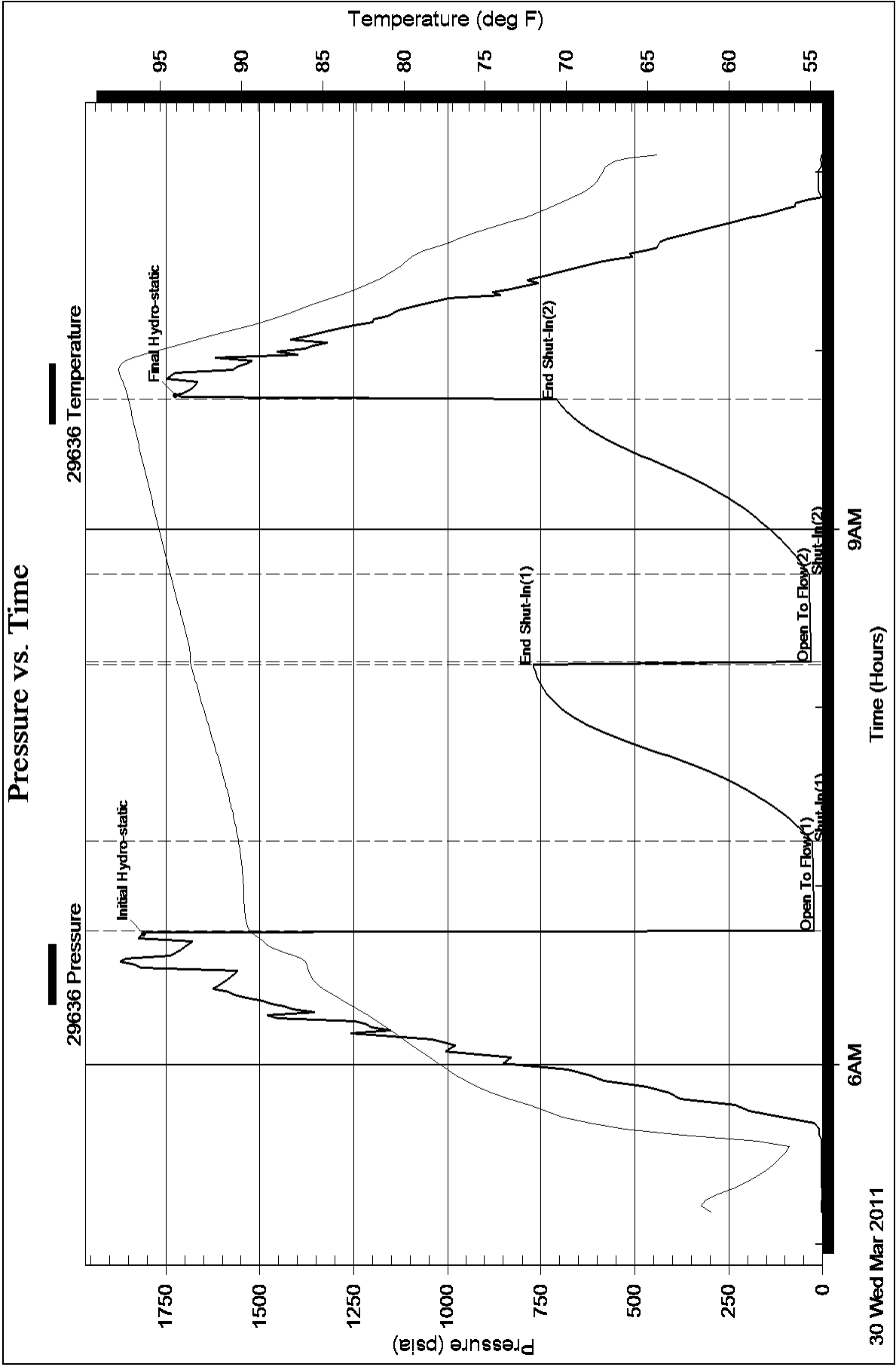
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

10-22s-14w Stafford

Krupp #1-10

Start Date: 2011.04.01 @ 10:30:00

End Date: 2011.04.01 @ 00:00:00

Job Ticket #: 16041 DST #: 6

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

Printed: 2011.04.01 @ 03:19:47



DRILL STEM TEST REPORT

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

Krupp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-14w Stafford

Job Ticket: 16041

DST#: 6

ATTN: Ryan Greenbaum

Test Start: 2011.04.01 @ 10:30:00

GENERAL INFORMATION:

Formation: **Kansas City "L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335-42

Interval: 3646.00 ft (KB) To 3670.00 ft (KB) (TVD)

Reference Elevations: 1943.00 ft (KB)

Total Depth: 3670.00 ft (KB) (TVD)

1935.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 26180 Inside

Press @ RunDepth: 86.16 psia @ 3666.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.04.01 End Date: 2011.04.01

Last Calib.: 2011.04.01

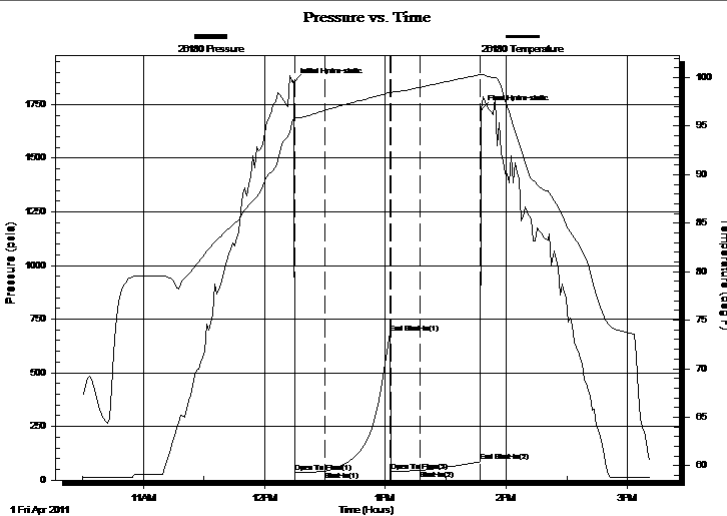
Start Time: 10:30:00 End Time: 15:11:30

Time On Btm: 2011.04.01 @ 12:14:30

Time Off Btm: 2011.04.01 @ 13:47:30

TEST COMMENT: 1st Opening 15 Minutes-Weak blow for 10 minutes and died
 1st Shut-In 30 Minutes-No blow back
 2nd Opening 15 Minutes-No blow
 2nd Shut-In 30 Minutes-No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1854.08	95.74	Initial Hydro-static
1	37.46	95.85	Open To Flow (1)
16	39.36	96.61	Shut-In(1)
49	683.26	98.48	End Shut-In(1)
49	41.51	98.49	Open To Flow (2)
63	44.45	98.99	Shut-In(2)
93	86.16	100.29	End Shut-In(2)
93	1724.87	100.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	oil cut mud 85% mud 15% oil	0.14

Gas Rates

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



DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Ryan Greenbaum

Krupp #1-10
10-22s-14w Stafford
 Job Ticket: 16041 **DST#: 6**
 Test Start: 2011.04.01 @ 10:30:00

GENERAL INFORMATION:

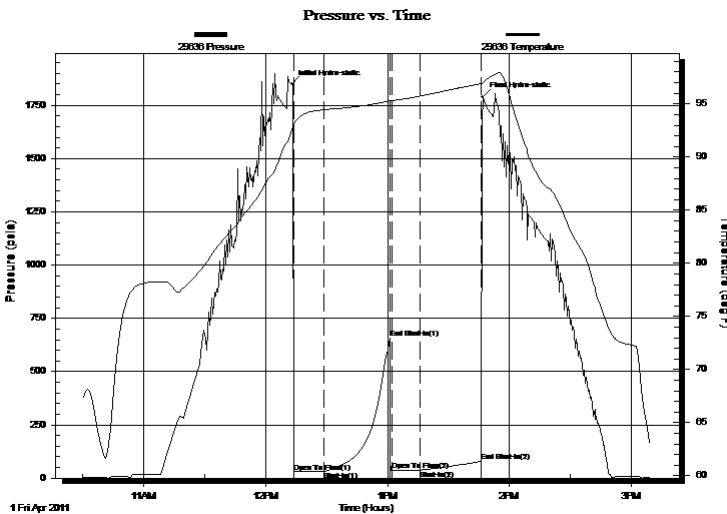
Formation: **Kansas City "L"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3646.00 ft (KB) To 3670.00 ft (KB) (TVD)**
 Total Depth: 3670.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 3335-42
 Reference Elevations: 1943.00 ft (KB)
 1935.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 29636 Outside

Press @ RunDepth: 79.66 psia @ 3667.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.04.01 End Date: 2011.04.01 Last Calib.: 2011.04.01
 Start Time: 10:30:00 End Time: 15:09:29 Time On Btm: 2011.04.01 @ 12:13:00
 Time Off Btm: 2011.04.01 @ 13:47:00

TEST COMMENT: 1st Opening 15 Minutes-Weak blow for 10 minutes and died
 1st Shut-In 30 Minutes-No blow back
 2nd Opening 15 Minutes-No blow
 2nd Shut-In 30 Minutes-No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1849.32	92.60	Initial Hydro-static
1	29.64	93.08	Open To Flow (1)
16	31.43	94.46	Shut-In(1)
48	658.50	95.30	End Shut-In(1)
49	34.90	95.34	Open To Flow (2)
63	37.84	95.74	Shut-In(2)
94	79.66	96.93	End Shut-In(2)
94	1790.63	97.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	oil cut mud 85% mud 15% oil	0.14

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

Krupp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-14w Stafford

ATTN: Ryan Greenbaum

Job Ticket: 16041

DST#: 6

Test Start: 2011.04.01 @ 10:30:00

Tool Information

Drill Pipe:	Length: 3635.00 ft	Diameter: 3.80 inches	Volume: 50.99 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: 55000.00 lb
			<u>Total Volume: 50.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3646.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			3618.00	
Shut-In Tool	5.00			3623.00	
Hydroic Tool	5.00			3628.00	
Jars	6.00			3634.00	
Safety Joint	2.00			3636.00	
Packer	5.00			3641.00	29.00 Bottom Of Top Packer
Packer	5.00			3646.00	
Perforations	19.00			3665.00	
Recorder	1.00	91716	Inside	3666.00	
Recorder	1.00	95172	Outside	3667.00	
Bullnose	3.00			3670.00	24.00 Bottom Packers & Anchor

Total Tool Length: 53.00



DRILL STEM TEST REPORT

FLUID SUMMARY

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

Krupp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-14w Stafford

Job Ticket: 16041

DST#: 6

ATTN: Ryan Greenbaum

Test Start: 2011.04.01 @ 10:30:00

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: 59.00 sec/qt

Cushion Volume: bbl

Water Loss: 10.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psia

Salinity: 5200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	oil cut mud 85% mud 15% oil	0.140

Total Length: 10.00 ft Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

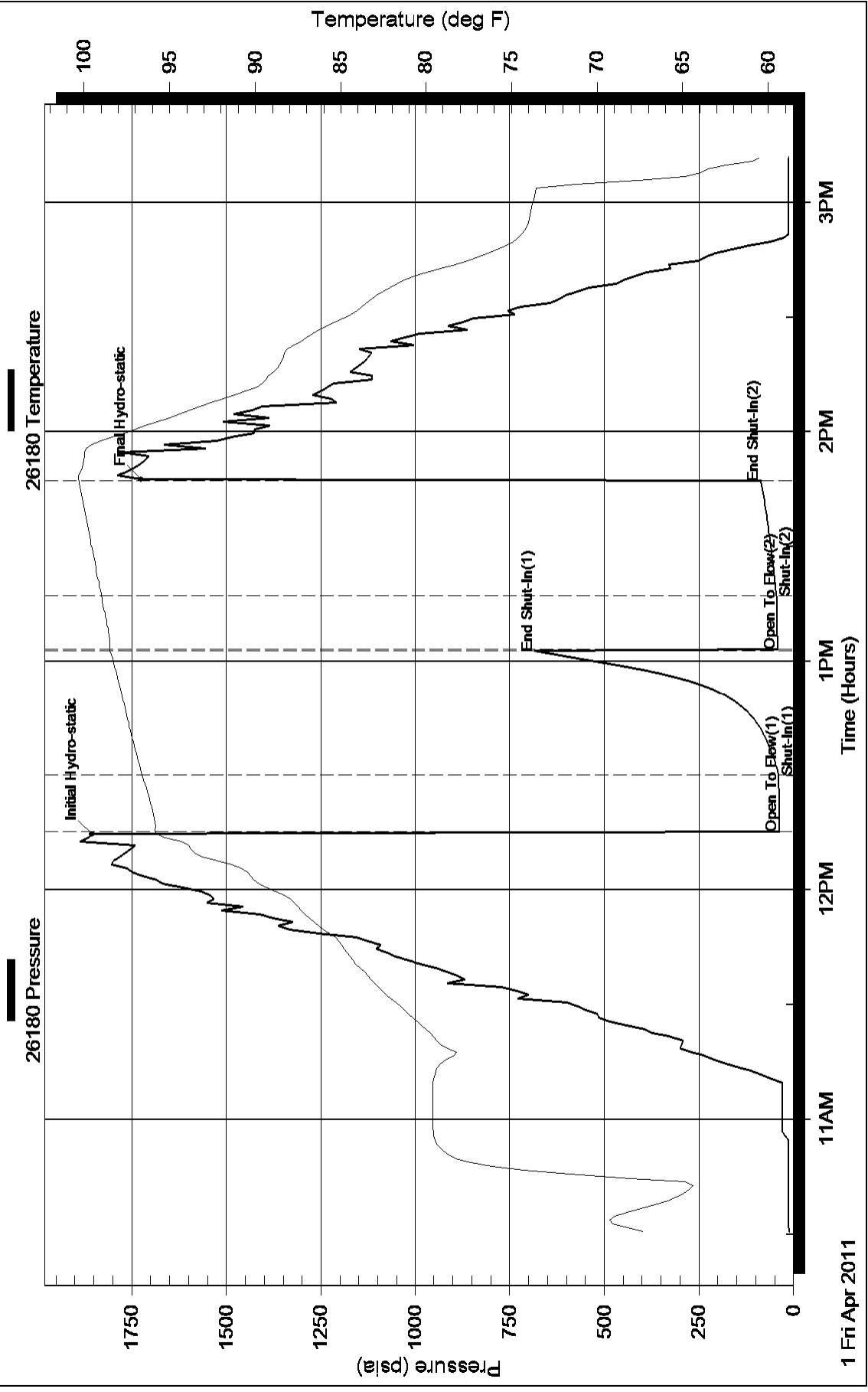
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

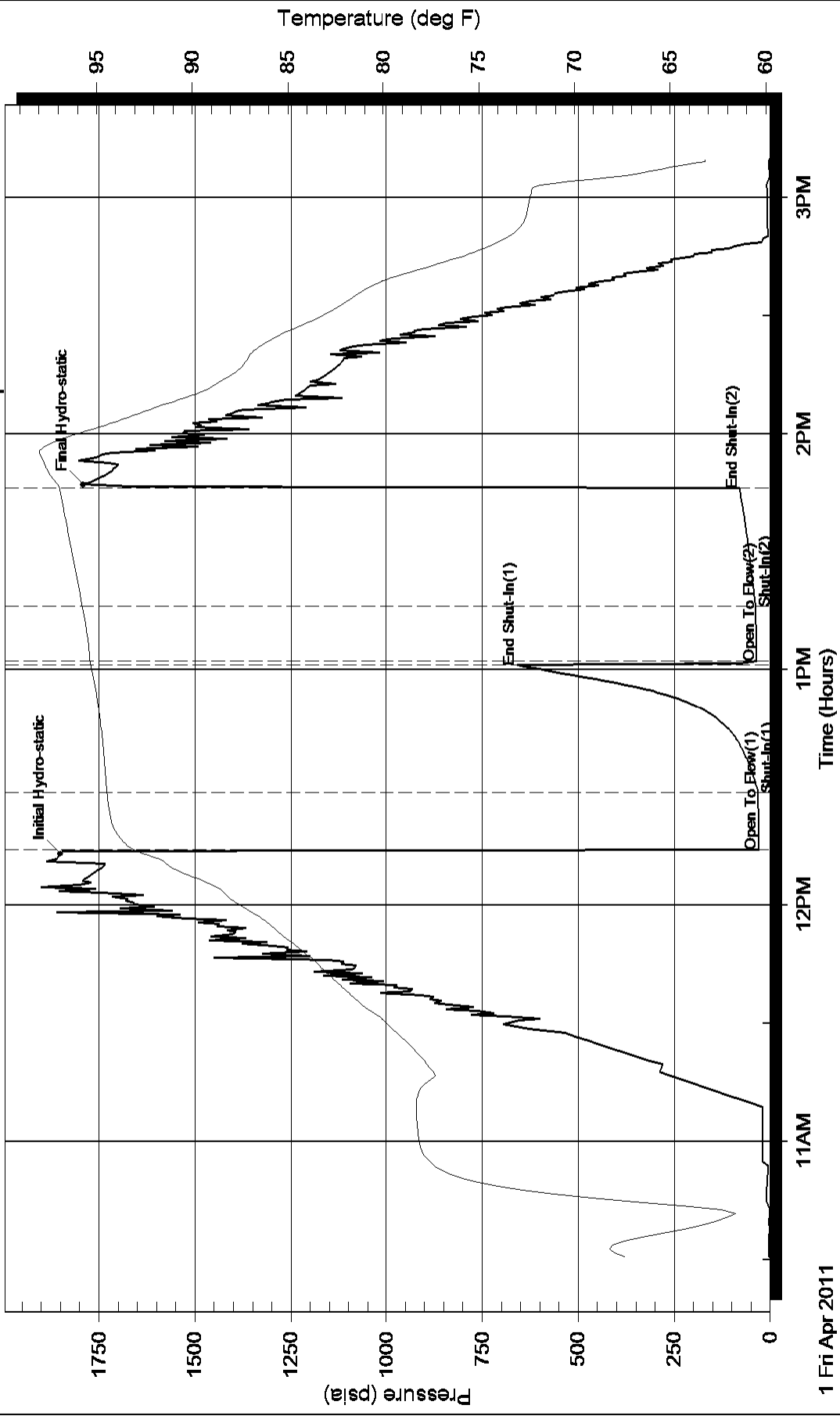
Pressure vs. Time



Pressure vs. Time

29636 Pressure

29636 Temperature





DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

10-22s-14w Stafford

Krupp #1-10

Start Date: 2011.04.01 @ 04:40:00

End Date: 2011.04.01 @ 00:00:00

Job Ticket #: 16042 DST #: 7

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

Printed: 2011.04.01 @ 22:43:44



DRILL STEM TEST REPORT

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

Krupp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-14w Stafford

ATTN: Ryan Greenbaum

Job Ticket: 16042

DST#: 7

Test Start: 2011.04.01 @ 04:40:00

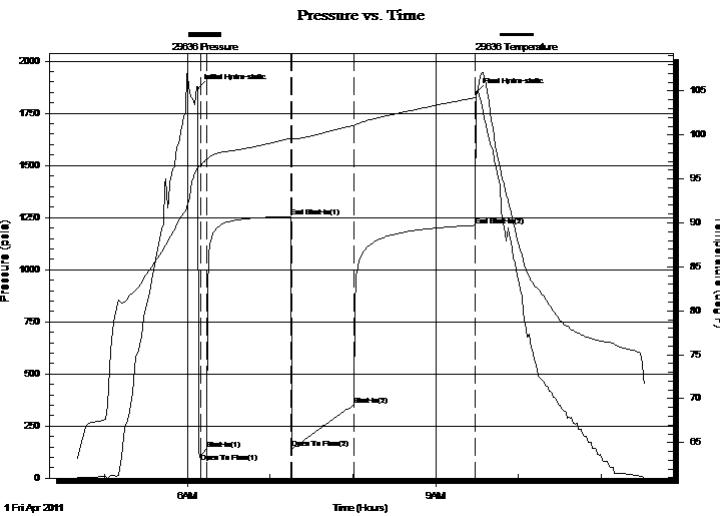
GENERAL INFORMATION:

Formation: **Simpson Sand**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:00:00 Tester: Gene Budig
 Time Test Ended: 00:00:00 Unit No: 3335-42
 Interval: **3750.00 ft (KB) To 3780.00 ft (KB) (TVD)** Reference Elevations: 1943.00 ft (KB)
 Total Depth: 3380.00 ft (KB) (TVD) 1935.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 29636 Outside

Press @ Run Depth: 1212.82 psia @ 3777.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.04.01 End Date: 2011.04.01 Last Calib.: 2011.04.01
 Start Time: 04:40:00 End Time: 11:32:00 Time On Btm: 2011.04.01 @ 06:07:30
 Time Off Btm: 2011.04.01 @ 09:29:30

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1868.92	96.27	Initial Hydro-static
3	78.09	96.56	Open To Flow (1)
7	138.13	97.21	Shut-In(1)
68	1255.19	99.63	End Shut-In(1)
69	143.29	99.63	Open To Flow (2)
114	351.40	101.11	Shut-In(2)
201	1212.82	104.23	End Shut-In(2)
202	1847.72	104.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	Gas in the pipe	4.21
800.00	Cleaqn very gassy oil 40%Gas 60%Oil	11.22
0.00	Gravity 34 corrected	0.00
120.00	Muddy gassy oil 30%Gas 30%Oil 40%ML	1.68

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

Krupp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-14w Stafford

ATTN: Ryan Greenbaum

Job Ticket: 16042

DST#: 7

Test Start: 2011.04.01 @ 04:40:00

Tool Information

Drill Pipe:	Length: 3724.00 ft	Diameter: 3.80 inches	Volume: 52.24 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: 50000.00 lb
			<u>Total Volume: 52.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3750.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3722.00	
Shut-In Tool	5.00			3727.00	
Hydroic Tool	5.00			3732.00	
Jars	6.00			3738.00	
Safety Joint	2.00			3740.00	
Packer	5.00			3745.00	29.00 Bottom Of Top Packer
Packer	5.00			3750.00	
Perforations	25.00			3775.00	
Recorder	1.00	91716	Inside	3776.00	
Recorder	1.00	95172	Outside	3777.00	
Bullnose	3.00			3780.00	30.00 Bottom Packers & Anchor

Total Tool Length: 59.00



DRILL STEM TEST REPORT

FLUID SUMMARY

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

Krupp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-14w Stafford

Job Ticket: 16042

DST#: 7

ATTN: Ryan Greenbaum

Test Start: 2011.04.01 @ 04:40:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 88.00 sec/qt
Water Loss: 8.60 in³
Resistivity: ohm.m
Salinity: 8600.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	Gas in the pipe	4.208
800.00	Cleaqn very gassy oil 40%Gas 60%Oil	11.222
0.00	Gravity 34 corrected	0.000
120.00	Muddy gassy oil 30%Gas 30%Oil 40%Mud	1.683

Total Length: 1220.00 ft Total Volume: 17.113 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

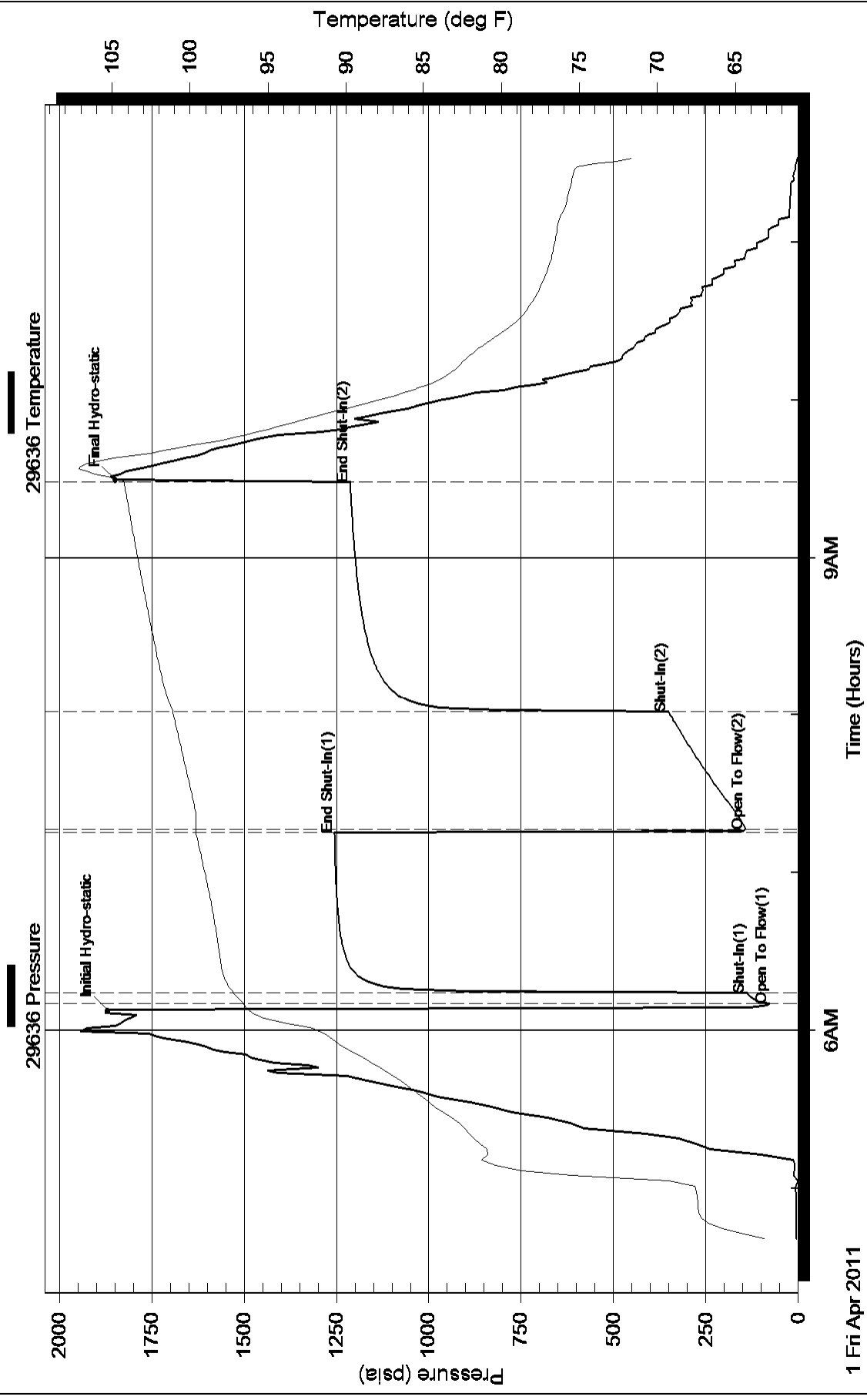
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

10-22s-14w Stafford

Krupp #1-10

Start Date: 2011.04.02 @ 10:25:00

End Date: 2011.04.02 @ 00:00:00

Job Ticket #: 16043 DST #: 8

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

Printed: 2011.04.02 @ 16:55:36



DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Ryan Greenbaum

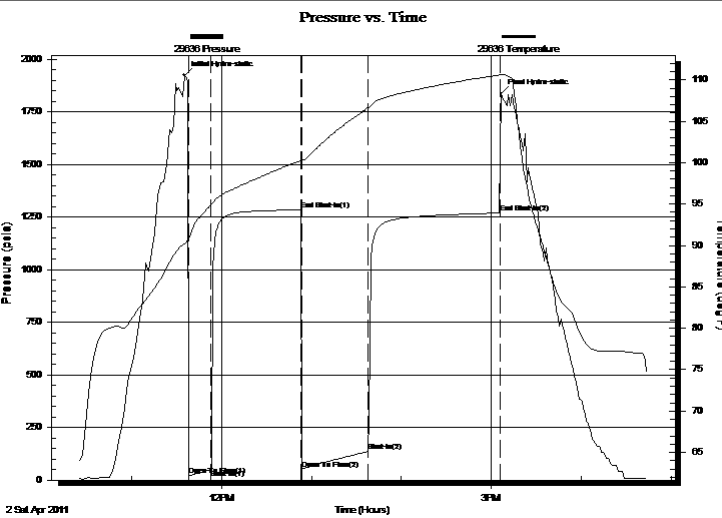
Krupp #1-10
10-22s-14w Stafford
 Job Ticket: 16043 **DST#: 8**
 Test Start: 2011.04.02 @ 10:25:00

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: 3335-42
 Interval: **3796.00 ft (KB) To 3803.00 ft (KB) (TVD)**
 Reference Elevations: 1943.00 ft (KB)
 Total Depth: 3803.00 ft (KB) (TVD) 1935.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 29636 Outside
 Press @ Run Depth: 1268.78 psia @ 3800.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.04.02 End Date: 2011.04.02 Last Calib.: 2011.04.02
 Start Time: 10:25:00 End Time: 16:44:00 Time On Btm: 2011.04.02 @ 11:35:30
 Time Off Btm: 2011.04.02 @ 15:06:30

TEST COMMENT: 1st Opening 15 Minutes-Fair blow built to 11 1/2 inch into the water
 1st Shut-In 60 Minutes-Weak steady blow back
 2nd Opening 45 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 18 minutes
 2nd Shut-In 90 Minutes-Weak steady blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1923.16	90.23	Initial Hydro-static
3	20.47	90.82	Open To Flow (1)
18	49.65	94.92	Shut-In(1)
78	1284.07	100.27	End Shut-In(1)
78	53.86	100.30	Open To Flow (2)
123	135.63	106.65	Shut-In(2)
210	1268.78	110.59	End Shut-In(2)
211	1836.26	110.63	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
120.00	Gas in the pipe	1.68
375.00	Clean gassy oil 40%Gas 60%Oil	5.26
0.00	Gravity 31 Corrected	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.

Krupp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-14w Stafford

ATTN: Ryan Greenbaum

Job Ticket: 16043

DST#: 8

Test Start: 2011.04.02 @ 10:25:00

Tool Information

Drill Pipe:	Length: 3787.00 ft	Diameter: 3.80 inches	Volume: 53.12 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:	60000.00 lb
			<u>Total Volume: 53.12 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3796.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	7.00 ft				
Tool Length:	36.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

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

Change Over Sub	1.00			3768.00	
Shut-In Tool	5.00			3773.00	
Hydroic Tool	5.00			3778.00	
Jars	6.00			3784.00	
Safety Joint	2.00			3786.00	
Packer	5.00			3791.00	29.00 Bottom Of Top Packer
Packer	5.00			3796.00	
Perforations	2.00			3798.00	
Recorder	1.00	91716	Inside	3799.00	
Recorder	1.00	95172	Outside	3800.00	
Bullnose	3.00			3803.00	7.00 Bottom Packers & Anchor

Total Tool Length: 36.00



DRILL STEM TEST REPORT

FLUID SUMMARY

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

Krupp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-14w Stafford

Job Ticket: 16043

DST#: 8

ATTN: Ryan Greenbaum

Test Start: 2011.04.02 @ 10:25:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 10.20 in³
Resistivity: ohm.m
Salinity: 4300.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Gas in the pipe	1.683
375.00	Clean gassy oil 40%Gas 60%Oil	5.260
0.00	Gravity 31 Corrected	0.000

Total Length: 495.00 ft Total Volume: 6.943 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

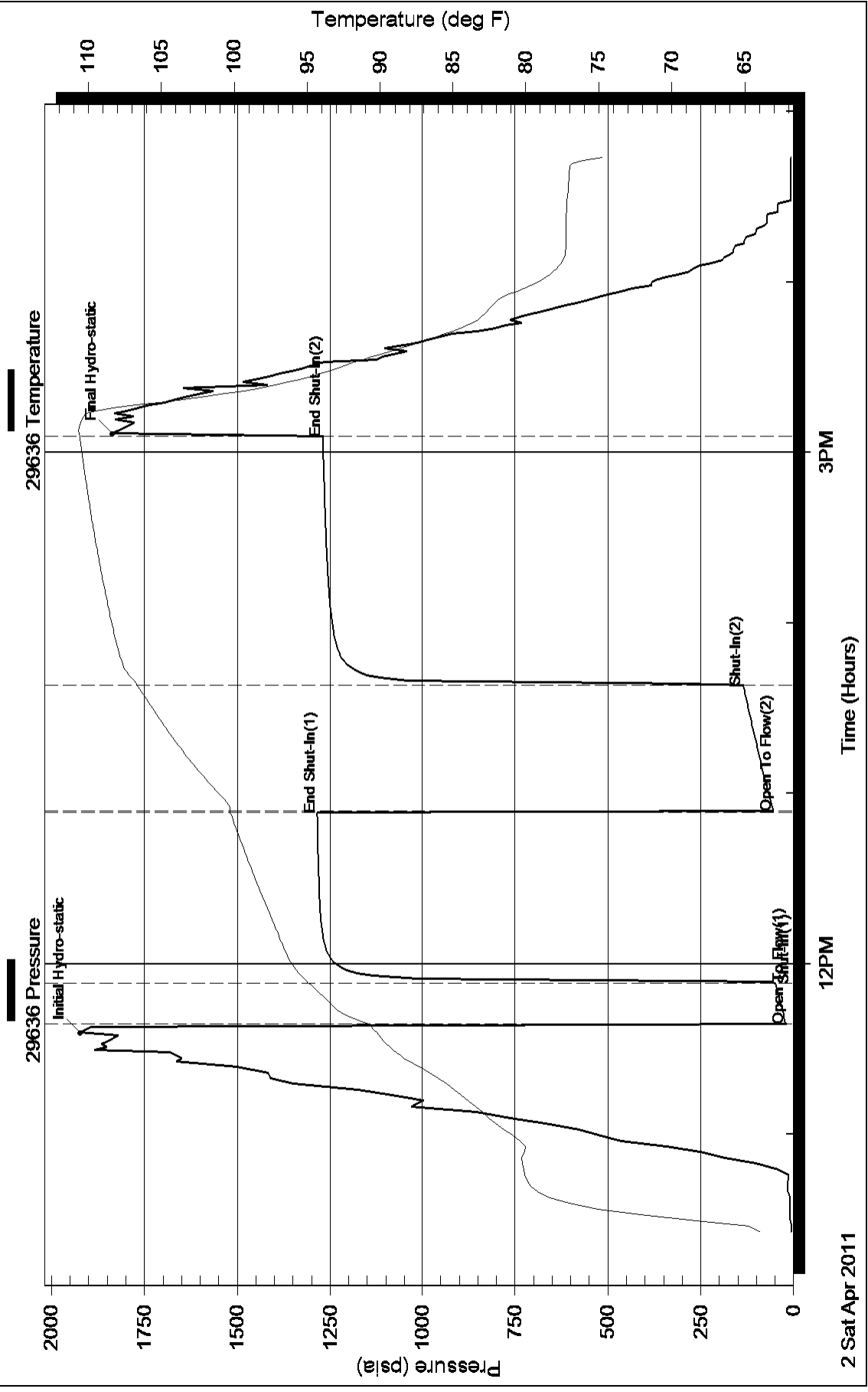
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

10-22s-14w Stafford

Krupp #1-10

Start Date: 2011.04.03 @ 11:30:00

End Date: 2011.04.03 @ 00:00:00

Job Ticket #: 16044 DST #: 9

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

Printed: 2011.04.03 @ 06:37:18

F.G.Holl Company L.L.C.
Krupp #1-10
10-22s-14w Stafford
DST # 9
Arbuckle
2011.04.03



DRILL STEM TEST REPORT

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

Krupp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-14w Stafford

ATTN: Ryan Greenbaum

Job Ticket: 16044

DST#: 9

Test Start: 2011.04.03 @ 11:30:00

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: 3335-42

Interval: 3804.00 ft (KB) To 3810.00 ft (KB) (TVD)

Reference Elevations: 1943.00 ft (KB)

Total Depth: 3810.00 ft (KB) (TVD)

1935.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 4143 Inside

Press @ Run Depth: 1259.44 psia @ 3807.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.04.03

End Date: 2011.04.03

Last Calib.: 2011.04.03

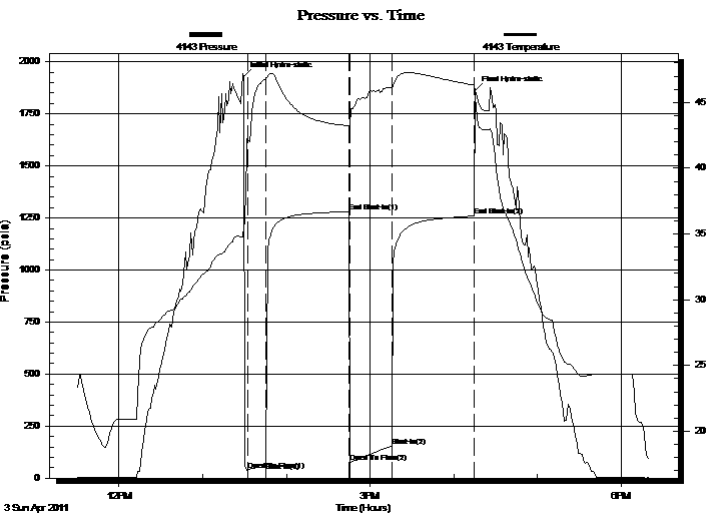
Start Time: 11:30:00

End Time: 18:21:00

Time On Btm: 2011.04.03 @ 13:29:30

Time Off Btm: 2011.04.03 @ 16:15:30

TEST COMMENT: 1st Opening 15 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 9 minutes
1st Shut-In 60 Minutes-Weak intermittant
2nd Opening 30 Minutes-Good blow built to the bottom of a 5 gallon bucket in 13 minutes
2nd Shut-In 60 Minutes-Weak intermittant



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1929.51	35.60	Initial Hydro-static
3	38.06	42.25	Open To Flow (1)
16	73.70	46.81	Shut-In(1)
76	1280.40	43.24	End Shut-In(1)
76	77.77	43.22	Open To Flow (2)
106	153.65	46.16	Shut-In(2)
165	1259.44	46.33	End Shut-In(2)
166	1862.75	45.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Gas in the pipe	0.84
350.00	clean gassy oil	4.91
0.00	40%Gas 60%Oil Gravity 31 Corrected	0.00
25.00	heavy oil cut mud 10%Gas 55%Mud 35%0.35	

Gas Rates

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



DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Ryan Greenbaum

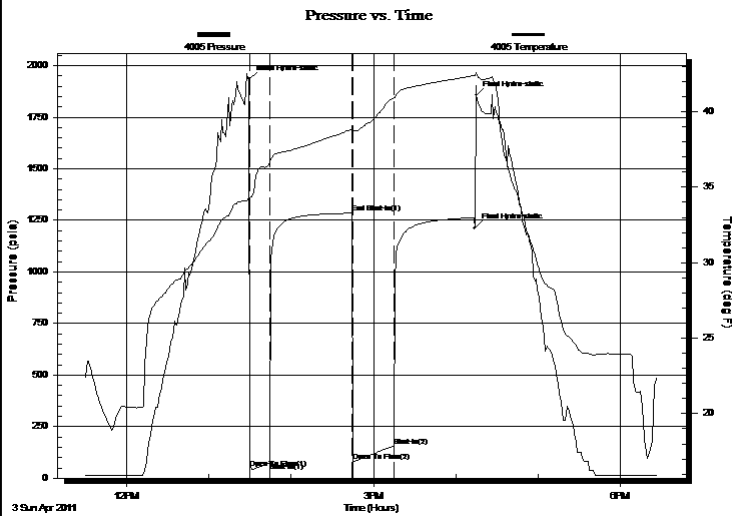
Krupp #1-10
10-22s-14w Stafford
 Job Ticket: 16044 **DST#: 9**
 Test Start: 2011.04.03 @ 11:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:00:00 Tester: Gene Budig
 Time Test Ended: 00:00:00 Unit No: 3335-42
 Interval: **3804.00 ft (KB) To 3810.00 ft (KB) (TVD)** Reference Elevations: 1943.00 ft (KB)
 Total Depth: 3810.00 ft (KB) (TVD) 1935.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 4005 Outside
 Press @ RunDepth: 1285.57 psia @ 3808.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.04.03 End Date: 2011.04.03 Last Calib.: 2011.04.03
 Start Time: 11:30:00 End Time: 18:27:00 Time On Btm: 2011.04.03 @ 13:29:30
 Time Off Btm: 2011.04.03 @ 16:14:00

TEST COMMENT: 1st Opening 15 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 9 minutes
 1st Shut-In 60 Minutes-Weak intermittant
 2nd Opening 30 Minutes-Good blow built to the bottom of a 5 gallon bucket in 13 minutes
 2nd Shut-In 60 Minutes-Weak intermittant



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1933.09	34.27	Initial Hydro-static
1	49.59	34.27	Open To Flow (1)
15	76.02	36.68	Shut-In(1)
75	1285.57	38.83	End Shut-In(1)
76	79.75	38.81	Open To Flow (2)
106	156.33	40.91	Shut-In(2)
165	1211.60	42.39	Final Hydro-static
166	1857.10	42.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Gas in the pipe	0.84
350.00	clean gassy oil	4.91
0.00	40%Gas 60%Oil Gravity 31 Corrected	0.00
25.00	heavy oil cut mud 10%Gas 55%Mud 35%	0.35

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

Krupp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-14w Stafford

ATTN: Ryan Greenbaum

Job Ticket: 16044

DST#: 9

Test Start: 2011.04.03 @ 11:30:00

Tool Information

Drill Pipe:	Length: 3783.00 ft	Diameter: 3.80 inches	Volume: 53.07 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: 55000.00 lb
			<u>Total Volume: 53.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3804.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3776.00	
Shut-In Tool	5.00			3781.00	
Hydroic Tool	5.00			3786.00	
Jars	6.00			3792.00	
Safety Joint	2.00			3794.00	
Packer	5.00			3799.00	29.00 Bottom Of Top Packer
Packer	5.00			3804.00	
Perforations	2.00			3806.00	
Recorder	1.00	4143	Inside	3807.00	
Recorder	1.00	4005	Outside	3808.00	
Bullnose	3.00			3811.00	7.00 Bottom Packers & Anchor

Total Tool Length: 36.00



DRILL STEM TEST REPORT

FLUID SUMMARY

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

Krupp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-14w Stafford

Job Ticket: 16044

DST#: 9

ATTN: Ryan Greenbaum

Test Start: 2011.04.03 @ 11:30:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 88.00 sec/qt
Water Loss: 8.60 in³
Resistivity: ohm.m
Salinity: 8600.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Gas in the pipe	0.842
350.00	clean gassy oil	4.910
0.00	40%Gas 60%Oil Gravity 31 Corrected	0.000
25.00	heavy oil cut mud 10%Gas 55%Mud 35%Oil	0.351

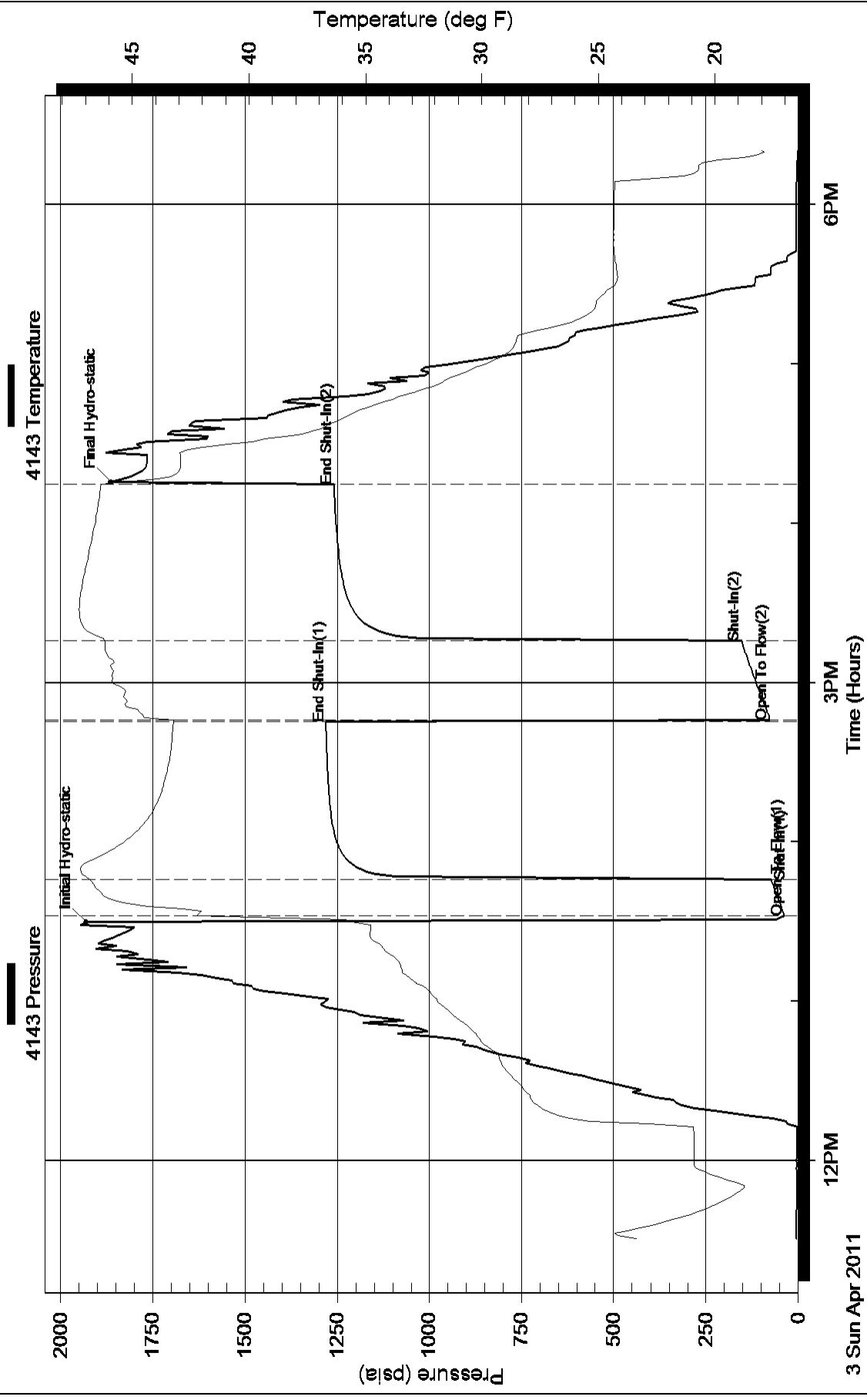
Total Length: 435.00 ft Total Volume: 6.103 bbl

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

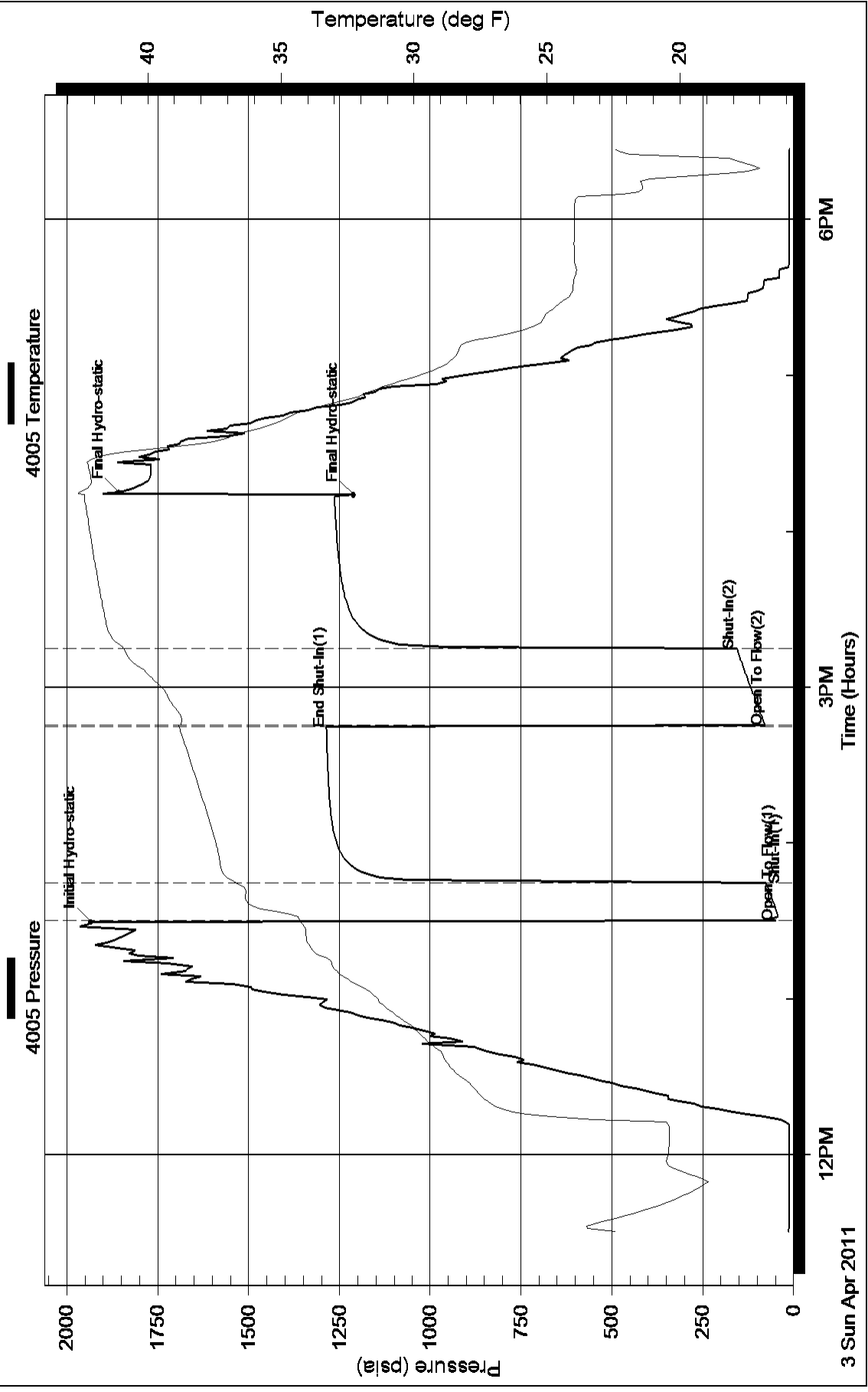
Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time



Mud-Co / Service Mud Inc.

Operator **FG Holl** County **Stafford** State **Kansas** Pump **6** X **14** X **60** SPM Casing Program **8 5/8" @ 844 ft.**
 Well **Krupp #1-10** Location _____ GPM _____ **7.75** BPM _____ " @ _____ ft.
 Contractor **Duke #8** Sec **10** TWP **22S** RNG **14W** D.P. **4.5** in. _____ " @ _____ ft.
 Stockpoint **Pratt, Ks.** Date **3/24/2011** Engineer **Rick Hughes** Collar **6.25** in. **495** ft. **348** FT/MIN R.A. Total Depth **4000** ft.

DATE	DEPTH	WEIGHT	VISCOSITY			GELS	pH	FILTRATION/FILTRATION ANALYSIS					SAND	RETORT			L.C.M.	Pump Press. PSI	CUMULATIVE COST	REMARKS AND TREATMENT
			Sec API @ F	PV @ F	Yp			10 sec / 10 min.	Strip Meter	ml API	Cake 32nds	Pres. #BBL		Cl ppm	Ca ppm	%				
3/24	0																		RURT	
3/25	844																		WOC	
3/26	1698	9.2	32				7.0	N/C			16.4M	Hvy		5.5		94.5			Drig.	
3/27	2560	9.5	46	12	18	14/40	7.0	16.0	2		21M	1,660		7.3		92.7			Drig. Displaced Starch @ 1730'	
3/28	3321	9.2	53	14	19	16/34	10.5	7.2	1		3,300	20		6.3		93.7			Drig. Displaced chemical @	
3/29	3504	9.3	69	21	20	22/81	10.0	8.0	1		5,700	40		6.8		93.2			Drig. 2650'	
3/30	3600	9.3	56	16	16	33/77	11.0	10.0	1		6,000	40		6.8		93.2			CCH after DST 3 DST #1 @ 3485	
3/31	3640	9.3	59	16	12	21/47	11.0	10.0	1		5,200	20		6.8		93.2			TO w/DST #5 DST #2 @ 3525	
4/1	3699	9.0	88	13	28	36/93	10.5	9.6	1		8,600	40		4.5		95.5			Drig. DST #4 @ 3614	
4/2	3803	9.1	50	9	20	42/76	11.5	10.2	1		9,300	40		4.6		95.4			CCH f/DST #8 Hit bridge w/DST5 but	
4/3	3820	9.0	56	11	25	31/89	10.5	11.2	1		10.5M	60		4.4		95.6	1/2		CFS got test	
4/4	4000																		Final: DST #6 @ 3670	
																			LTD - 4000'. DST #7 @ 3780	
																			9 DST's. DST #9 @ 3810	
																			Run Casing.	
																			Reserve Pit, Chl content ppm: 37000	
																			Estimated Volume: 800 BBLS	

MUD-CO / SERVICE MUD INC.
 100 S. Main Suite #310
 Wichita, Ks. 67202
 316/264-2814 Fax: 316/264-5024

DRILLING MUD RECAP

Materials	Sacks	Amount	Materials	Sacks	Amount	Amount
C/S HULLS	62					
CAUSTIC SODA	20					
DESCO	2					
DRILL PAK	6					
MIL-GUARD	2					
PREMIUM GEL	396					
SALT CLAY	9					
SODA ASH	24					
STARCH	30					
SUPER LIG	14					
						Total Mud Cost
						Trucking Cost
						Trucking Surcharge
						Taxes
						TOTAL COST

Customer FG HOLL Co, LLC	Lease No.	Date 3-25-2011
Lease KRUPP	Well # 1-10 TD	
Field Order # 3723	Station PRATT, Ks.	Casing 8 5/8
		Depth 846'
Type Job CNW - 8 5/8" S.P.	Formation	County STAFFORD
		State Ks.
		Legal Description 10-22-14

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft				RATE	PRESS	ISIP
8 5/8	2 3/4		CMT -	Acid 1855K A-CON				5 Min.
Depth 830.36	Depth 2/16'	From	To	Pre Pad @ 2.12 CUFT ³	Max			
Volume	Volume	From	To	Bad 200SK COMMON	Min			10 Min.
Max Press 500	Max Press	From	To	Frac @ 1.34 CUFT ³	Avg			15 Min.
Well Connection P.C.	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth 846'	Packer Depth	From	To	Flush 52.86 BBL	Gas Volume			Total Load

Customer Representative STEVE STEVENS	Station Manager D. SCOTT	Treater K. LESLEY
--	-----------------------------	----------------------

Service Units	27283	19889	19842	19832	19862				
Driver Names	LESLEY	MITCHELL	—	HUNTER	—				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
5:30 AM					ON LOCATION - SAFETY MEETING
6:45 AM					RUN 19 JTS. - 8 5/8" X 23" CSG.
					CENT. - 2, 9, 14
8:25 AM					CSG. ON BOTTOM
8:26 AM					HOOK UP TO CSG. - BREAK CIRC. W/ RIG
8:46 AM					SWITCH OVER TO PUMP TRUCK
8:48 AM	200		5	5	H ₂ O AHEAD
8:50 AM	200		70	5	MIX 1855K A-CON @ 12.6 #/GAL
9:05 AM	200		48	5	MIX 200 SK COMMON @ 15.0 #/GAL
9:15 AM					SHUT DOWN - RELEASE PLUG
9:18 AM	0		0	5	START DISPLACEMENT
9:20 AM	200		40	3	SLOW RATE
9:30 AM	300		52.5	3	PLUG DOWN! - CLOSED IN AT HEAD
					CIRCULATION THRU JOB
					CIRCULATED BBL TO PIT
					JOB COMPLETE,
					THANKS -
					KEEVEN LESLEY



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 03723 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>3-25-2011</u> DISTRICT <u>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>FG HOLL CO., LLC</u>		LEASE <u>KRUPP</u> WELL NO. <u>1-10</u>							
ADDRESS		COUNTY <u>STAFFORD</u> STATE <u>Ks.</u>							
CITY STATE		SERVICE CREW <u>LESLEY, MITCHELL, HUNTER</u>							
AUTHORIZED BY		JOB TYPE: <u>CN/W - 8 5/8" S.P.</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
27283	1						<u>3-25-11</u>		<u>3:30</u>
<u>19889-19842</u>	1					ARRIVED AT JOB		AM	<u>5:30</u>
<u>19832-19862</u>	1					START OPERATION		AM	<u>8:45</u>
						FINISH OPERATION		AM	<u>9:30</u>
						RELEASED		AM	<u>10:00</u>
						MILES FROM STATION TO WELL			<u>55</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: [Signature]
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 101	A-CON BLEND	SK	185		
CP 100	COMMON	SK	200		
CC 102	CELL-FLAKE	lb	96		
CC 109	CALCIUM CHLORIDE	lb	1086		
CC 200	CEMENT GEL	lb	376		
CF 105	TOP RUBBER CMT. PLUG, 8 5/8"	EA	1		
CF 1753	CENTRALIZER, 8 5/8"	EA	3		
E 100	PICKUP MILEAGE	MI	55		
E 101	HEAVY EQUIPMENT MILEAGE	MI	110		
E 113	BULK DELIVERY CHARGE	TM	996		
CE 201	DEPTH CHARGE; 501'-1000'	HR	1-4		
CE 240	BLENDING CHARGE	SK	385		
CE 504	PLUG CONTAINER CHARGE	Job	1		
S 003	SERVICE SUPERVISOR	EA	1		

SUB TOTAL DCS

CHEMICAL / ACID DATA:			

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

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

