



Confidentiality Requested:

Yes No

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

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

API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	THOMPSON 1-30
Doc ID	1086802

All Electric Logs Run

CPI
Microresistivity
DIL
CDL/CNL
BHCS
Frac finder

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	THOMPSON 1-30
Doc ID	1086802

Tops

Name	Top	Datum
Herrington	2165	-236
Winfield	220	-291
Towanda	2290	-361
Ft Riley	2345	-416
Wrefold	2481	-552
Council Grove	2504	-575
Neva	2669	-740
Red Eagle	2804	-875
Wabaunsee	2985	-1056
Root Shale	3017	-1088
Stotler	3129	-1200
Tarkio	3182	-1253
Howard	3327	-1398
Topeka	3445	-1516
Heebner	3847	-1918
Lansing	4017	-2088
BKC	4434	-2505
Marmaton	4439	-2510
Kinderhook Chert	4511	-2580
Kinderhook Shale	4539	-2610
Viola	4594	-2665
Viola Chert	4637	-2708
Simpson Shale	4713	-2784
Arbuckle	4795	-2866

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	THOMPSON 1-30
Doc ID	1086802

Tops

Name	Top	Datum
RTD	4940	-3011

Summary of Changes

Lease Name and Number: THOMPSON 1-30

API/Permit #: 15-007-23827-00-00

Doc ID: 1086802

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	05/08/2012	07/09/2012
Completion Or Recompletion Date	5/07/2012	6/04/2012
Date of First or Resumed Production or SWD or Enhr Disposition Of Gas - Used on lease	No	06/28/2012 Yes
Liner Run?		No
Method Of Completion - Perf	No	Yes
Perf_Material_1		Frac with 35,500#s total proppant
Perf_Record_1		4596' - 4605' Viola
Perf_Record_2		Reperf 4596' - 4605
Perf_Shots_1		1

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Perf_Shots_2		4
Producing Formation	not yet completed	Viola
Producing Method Pumping	No	Yes
Production Interval #1		4596' - 4605' Viola
Save Link	../../../../kcc/detail/operatorEditDetail.cfm?docID=1073855	../../../../kcc/detail/operatorEditDetail.cfm?docID=1086802
Tubing Record - Set At		4618
Tubing Size		2.3750
Well Type	OIL	GAS



CONFIDENTIAL

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
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API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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



1073855

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
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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
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	THOMPSON 1-30
Doc ID	1073855

All Electric Logs Run

CPI
Microresistivity
DIL
CDL/CNL
BHCS
Frac finder

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Well Name	THOMPSON 1-30
Doc ID	1073855

Tops

Name	Top	Datum
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Wrefold	2481	-552
Council Grove	2504	-575
Neva	2669	-740
Red Eagle	2804	-875
Wabaunsee	2985	-1056
Root Shale	3017	-1088
Stotler	3129	-1200
Tarkio	3182	-1253
Howard	3327	-1398
Topeka	3445	-1516
Heebner	3847	-1918
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Marmaton	4439	-2510
Kinderhook Chert	4511	-2580
Kinderhook Shale	4539	-2610
Viola	4594	-2665
Viola Chert	4637	-2708
Simpson Shale	4713	-2784
Arbuckle	4795	-2866

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



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

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

February 10, 2012

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

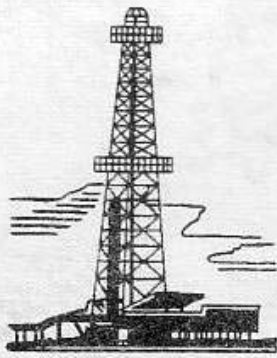
Re: ACO1
API 15-007-23827-00-00
THOMPSON 1-30
SE/4 Sec.30-30S-13W
Barber County, Kansas

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



WELLSITE GEOLOGIST'S REPORT

J. R. Hustead
Consulting Geologist



Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: THOMPSON NO 1-30
Location: SEC 30-T 30 S-R 13 W
License Number: 15-007-23-827-00-00
Spud Date:
Surface Coordinates: 1440' FEL,2080' FSL 65' S,45 E. OF SE NE NW SE
Region: BARBER
Drilling Completed:

Bottom Hole Coordinates: Vertical Hole

Ground Elevation (ft): 1918' K.B. Elevation (ft): 1929'
Logged Interval (ft): 2100 To: Total Depth (ft):
Formation: LANSING/KC, ARBUCKLE
Type of Drilling Fluid: Native Mud, Chemical Premix (Displaced)

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR:

Company: F.G. HOLL COMPANY LLC
Address: 9431 E. CENTRAL STE 100
WICHITA,KANSAS 67206-2563

DRILLING CONTRACTOR:

Duke Drilling Company, Rig #2
Drill Pipe 4.5 X H; DRILL COLLARS 6.25 x 2.25, 496' BHA
BIT #2: 7-7/8" JZ QX20 (3-16);WOB: 32-36; RPM 60-65;KELLY BUSHING 8' ABOVE GROUND
LEVEL-MIRT-MAY-11-2011

SURFACE CASING:

Surface casing at 8 5/8 set 944' with total cmt 400 sxs
Production casing at 4 1/2 set at 4192' with total cmt 225 sxs

CIRCULATION SYSTEM:

MUD-PUMP: EWCO-14W-400,DUPLEX, 6.0 x 14, 60 SPM, 266GPM (85%); SPP: 600 PSI; EARTH PITS; MUD-CO/
SERVICE MUD, INC.;RICK HUGHES

GAS DETECTION SYSTEM:

MBC WELL LOGGING AND LEASING
ANALOG HOTWIRE AND CHROMATOGRAPH

OPEN HOLE LOGS:

DN (PE), DI (SP), ML: Sonic; . LogTech, Hays, KS, K Bange. Log total depth (4198') to RTD at 4199'.

COMPLETION:

Production casing set on Lansing/KC

WELLSITE GEOLOGIST:

Rene Husted
600 N. WINWOOD ST
GARDNER, KS 66030
(913) 908-3390

DRILL STEM TEST #1:

TARKIO- 2844'-2907'-INITIAL BLOW-GD BLOW BUILT TO THE BOTTOM OF BUCKET IN 30 SECONDS-FINAL BLOW-STRONG BLOW BUILT TO BOTTOM OF BUCKET IN 15 SECONDS-REC-150' THICK HEAVY MUD 100%-60 FT MUDDY WATER-30% MUD-70% WATER-150' WATER-2% MUD AND 98% WATER- CHLORIDES 146,000-RESISIVITY .25 @ 66 DEGREES

5/60/45/90

SHUT IN PRESSURES-1045.12-1024.51 PSIA

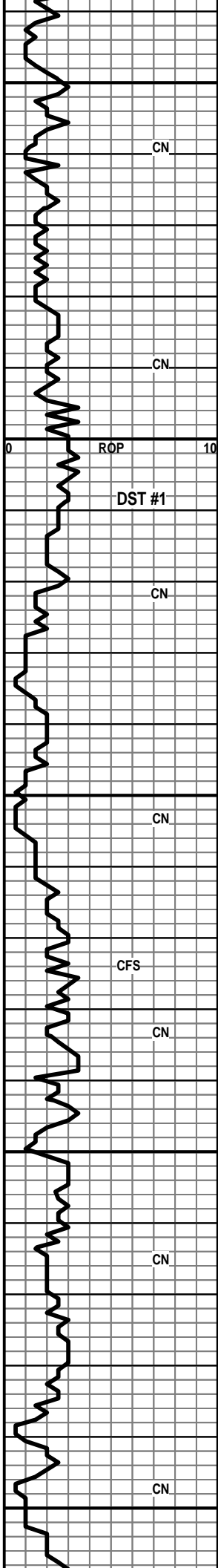
INITIAL FLOW PRESSURES-68.91-155.24 PSIA

FINAL FLOW PRESSURES-223.23-232.12 PSIA

INITIAL HYDRO STATIC PRESSURE-1422.83-1363.98 PSIA

GAS RATE - INITIAL 13.4 MCF/D TO FINAL 8.7 MCF/D

<p>ROP ROP (min/ft) ———</p>	DST	Lithology	<p>Porosity and Show Depth</p>	Geological Descriptions	TG, C1-C4 / REMARKS
			<p>20</p> <p>2100</p>	<p>ANHY-FRSTY WHT-RNDED-SHLY W/ LS-GRY-F-XLN-FOSS-HD-DNS</p> <p>SH-LT GRY/YEL- WAXY</p> <p>ANHY-FRSTY-GRY-ANG TO RNDED-SH-LT GRY-FRM-BLKY</p> <p>LS-LT BRN-M-F-XLN-V-FOSS-HD-DNS</p>	<p>SURVEY'S 365' 1.25 DEG 960' 1.5 DEG 1503' .75 DEG 2004' .75 DEG 2502' .5 DEG 2955' .25DEG 3503' .75 DEG 4004' .5 DEG 4519' .75 DEG</p>



2150
2200
2250
2300
2350

HERINGTON 2148

POOR SAMPLE

POOR SAMPLE

DOLO-GRY-M-GRN-BRIT-FOSS FRAGS- TR PP POR

DOLO A.A.

DOLO-GRY-F-GRN-HD-DNS

SH-LT GRY-BLKY

WINFIELD

DOLO-TN/GRY-F-GRN-BRIT-SLI CHLKY-PR TO FR
INTER-GRN POR

DOLO-TN/GRY-V-F-XLN-TR FOSS FRAGS-HD-DNS

DOLO-TN-F-GRN-BRIT-SNDY TEX-SLI
CHLKY-PR-INTER-GRN POR

DOLO-TN/GRY-F-XLN-BRIT-FOSS-OOL-TR SHLY-TR
FOSS VUG/INTER-XLN POR

POOR SAMPLE

DOLO-GRY-M-GRN-BRIT-SLI CHLKY-SHLY-FOSS-PR
INTER-GRN/PP POR

DOLO-OFF WHT/GRY-F-GRN-HD-BLOCKY-SM FOSS
FRAGS-PR PP POR

DOLO-A.A.

DOLO-OFF WHT/GRY-M-GRN-CHLKY-FOSS FRAGS-TR
SM VUG TO NO VIS POR

DOLO-TN-F-XLN-BRIT-SM OOL-FOSS-FR OOL-MOLDIC
POR

KB=1929'

MUD DATA @ 2206'

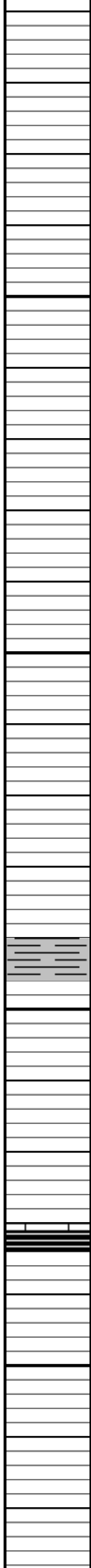
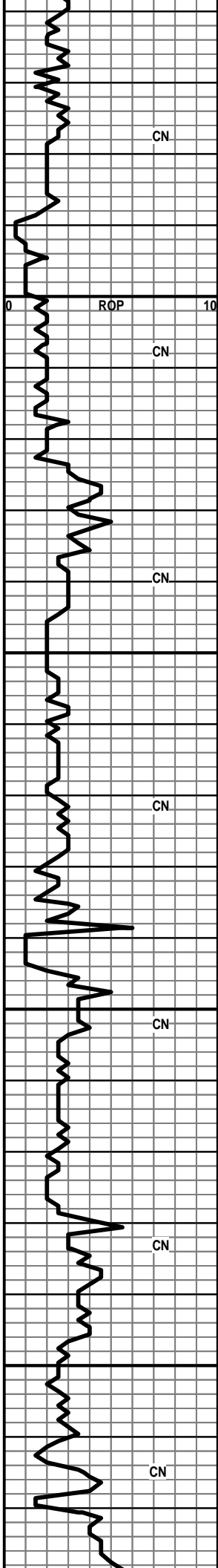
WT. 10.0
VIS 41
FIL 28

DST #1
2210'-2273'
REC 220'MUD
IBLW-GD STRNG BLW
BOB IN 1 MIN
FBLW-STRNG BLW
BOB IN 1 MIN -BLW BK
IN 2ND SHUT IN 3'

5/120/30/60
SIP-803.68-790.69
IFP-93.05-101.67
FFP-97.79-147.07
HP-1173.52-1169.92

MUD DAT @ 2272'

WT.9.9
VIS 41
FIL 12



2400

LS-TN-F-XLN-BLOCKY-DNS

LS-TN/GRY-F-XLN-BRIT-DNS TR OF CLAY

POOR SAMPLE

LS-TN-F-XLN-BRIT-OOL-FR OOL-MOLDIC POR

LS-OFF WHT/GRY-V-F-GRN(LITHO)-FOSS-OOL-V-HD-TR INTER-GRN

LS-OFF WHT-F-XLN-FOSS FRAGS-OOL-HD-DNS

LS-OFF WHT-F-XLN-V-FOSS-HD-DNS

B/FLORENCE

LS-OFF WHT-F-XLN-SNDY TEX-SLI
CHLKY-BRIT-OOL-FOSS-NO VIS POR

2450

LS-GRY-F-GRN-BRIT-CHLKY-FOSS-OOL-TR
INTER-GRN

LS-TN/GRY-F-XLN-SHLY-FOSS-HD-DNS

COUNCIL GROVE 2488'

SH-GRY-BLKY

2500

LS-GRY-F-XLN-HD-FOSS-FRAGS-DNS W/
CHRT-GRY-OPQ-FOSS

LS A.A.

LS-OFF WHT-F-XLN-HD-FOSS-OOL-DNS

LS-TN-F-XLN-HD-FOSS-DNS W/ CHRT-OFF WHT/TN
MOTT-OPQ-FRSH

2550

SH-GRY-BLKY-FOSS-LMY

LS-TN-F-XLN-TR FOSS-HD-DNS W/ CHRT-BRITE
YEL-OPQ-FRSH

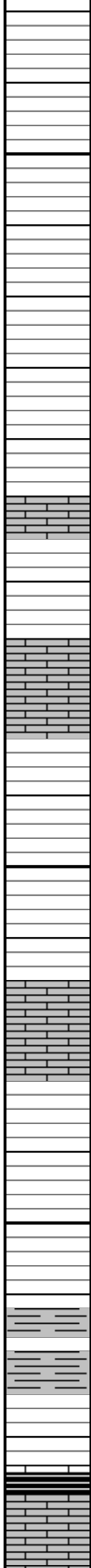
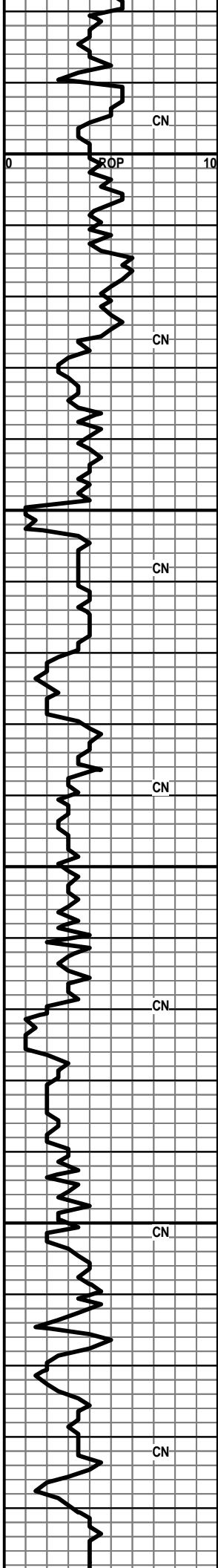
SH-GRY-SLTY-W/ LS-OFF WHT W/BLK
SPECS-F-XLN-CHLKY-BRIT-SM BLK OOL-TR
INTER-XLN POR

LS-GRY-FXLN-HD-FOSS-SHLY-DNS

WT. 9.7
VIS 38

WT. 9.7
VIS 40

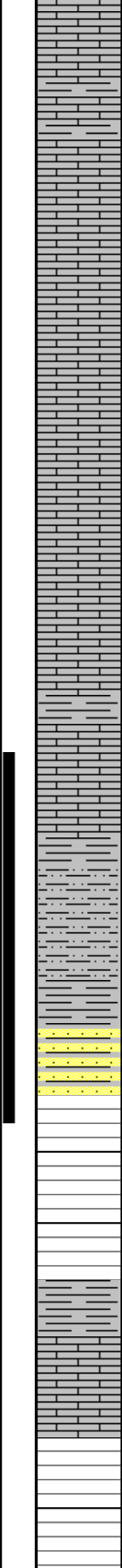
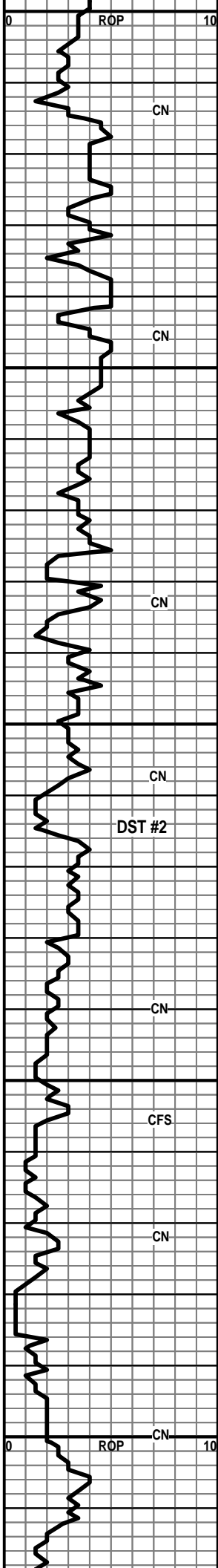
WT. 9.6
VIS 51



LS-TN-F-XLN-HD-DNS TR CHLKY
 LS-GRY-F-XLN-SHLY-HD-DNS
 2600 LS-OFF WHT-F-XLN-SNDY TEX-V-HD-DNS W/
 CHRT-BRITE YEL-OPQ-FRSH
 LS-OFF WHT/REDISH BRN-F-XLN-FOSS-SM
 OOL-HD-PR FOSS VUG POR
 LS-OFF WHT-F-XLN-HD-FOSS-DNS-W/ CHRT-OFF
 WHT-OPQ-FRSH-FOSS
 LS-TN-F-XLN-V-OOL-BRIT-TR INTER-PRT POR
 LS-TN/GRY-F-XLN-HD-FOSS-OOL-SHLY-DNS W/
 CHRT-BRN-OPQ-FRSH
 2650 LS-OFF WHT-F-XLN-MARTIX-V-SM OOL-TR FRAC POI
 TO NO VIS POR
 LSTN-F-XLN-TR FOSS-HD-DNS
 LS-TN/GRY-F-XLN-CHLKY-BRIT-SLI FOSS-TR FRAC
 -TR OF VUG-MOSTLY NO VIS POR
 LS-CRM-F-XLN-HD-DNS
 2700 LS-OFF WHT-F-XLN-HD-DNS
 SH-LT GRY-WAXY
 LS-CRM-F-XLN-CHLKY-SM OOL-TR INTER-XLN POR
 LS-CRM-F-XLN-FOSS-OOL-HD-DNS TR SM VUG POR
 2750 LS-TN-F-XLN-HD-DNS
 LS-OFF WHT-V-F-XLN-FOSS FRAGS-HD-DNS W/
 CHRT-GRY-OPQ-FRSH-FOSS
 SH-GRY-SFT-WAXY-FOSS
 SH-GRY-FRM-FOSS-LMY
 LS-OFF WHT/TRANS-V-F-XLN-V-FOSS-HD-SCATT VUG
 POR
 SH-BLK-CARB
 LS-CRM-F-XLN-HD-FOSS-DNS

WT. 9.9
VIS 55

MUD DATA @ 2718'
WT. 10.2
VIS 46
FIL 16



2800
2850
2900
2950
3000

LS-OFF WHT-F-XLN-BRIT-V-FOSS-FR INTER-PRT /INTER-GRN POR

LS-CRM-M-XLN-HD-FOSS-DNS

SH-GRY-BLKY-LMY

LS-CRM-M-GRN-BRIT-FOSS-TR INTER-GRN POR

LS-CRM-F-XLN-BRIT-OOL-FOSS-FR-OOL-MOLDIC POR/INTER-PRT POR

LS-TN-F-XLN-HD-FOSS-OOL-DNS

LS-GRY-V-F-XLN-HD-FOSS-DNS

LS-GRY-F-XLN-BRIT-SHLY-FOSS-DNS

LS-CRM-F-XLN-CHLKY IP-FOSS-INTER-PRT POR-LT BRN STN-NO VIS FLOR-NO VIS CUT

LS-GRY/TN-F-XLN-HD-DNS

ONAGA 2907' (-978')

LS-CRM/GRY-F-M-GRN-CHLKY-BRIT-V-FOSS-SM OOL-TR OOL-MOLDIC/FR INTER-XLN POR

SH-GRY-SFT-SLI GUMMY

SLTSS-FRSTY GRY-F-GRN-SHLY

SS-FRSTY GRY-F-GRN-TT-RNDED-WELL SRTEDE-CALC CMT-MICA-HEM-FR INTER-GRN POR

SS-FRSTY CLR-M-GRN-FRI-ANG-PR SRTEDE-CALC CMT-FOSS FRAGS-OOL-TR SH-TR GLAU

SLTSS-FRSTY GRY-F-GRN-V-SHLY-HEM

S-GRY-SFT-SILTY

WABAUNSEE 2986' (-1057')

POOR SAMPLE

POOR SAMPLE

LS-CRM-F-XLN-OOL-FN OOL-MOLDIC POR-NO VIS FLOR-NO VIS SHOW

WT. 10
VIS 43

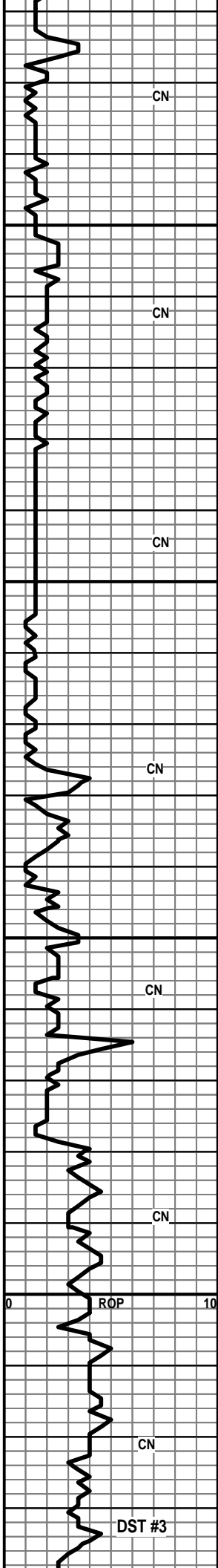
WT. 9.9
VIS 38

DST #2
2904'-2955'
REC 100' MUD
IBLW-V-WKBLW-BLW
BLT 2 IN INTO BUCKET
FBLW-V-WK BLW-BLW
1 IN INTO BUCKET

15/30/15/30
SIP-968.64-957.7
IFP-63.42-95.78
FFP-105.02-108.63
HP-1557.68-1533.22

MUD DATA @ 2955
WT. 10.1
VIS 46
FIL 16

WT. 8.7
VIS 75



SH-GRN-GRY-SFT-WAXY

SS-FRSTY CLR-F-GRN-TT TO FRI-SUB-RNDED TO SUB-ANG-WELLSRTED-HEM-FR INTER-GRN POR

3050 SH-LT GRY-SFT-SLTY

SS-FRSTY WHT-F-GRN-TT-RNDED-WELL SRTED-CALC CMT-HEM-GLAU-FR INTER-GRN POR-NO VIS FLOR-NO VIS CUT

SS A.A.

SH-LT GRY-BLKY-WAXY

SH-GRY-GRN-BLKY-WAXY

3100 SLTSS-FRSTY-GRY-SHLY-HEM AND GLAU IMBD

SS-FRSTY GRY-F-GRN-FRI-SHLY-GLAU

STOTLER

LS-TN-V-F-GRN-HD-DNS

LS-TN-V-F-GRN-SNDY TEX-HD-DNS

SS-FRSTY WHT-F-GRN-TT-SUB-RNDED-FR SRTED-CALC CMT-GLAU-HEM-TR INTER-GRN POR-NO VIS FLOR-NO VIS CUT

3150 SH-LT GRY-V-SILTY

SS-FRSTY WHT-F-GRN-TT-ANG TO SUB-ANG-FR SRTED-CALC CMT-SHLY-TR HEM-TR GLAU

SS AND SH A.A.

TARKIO

LS-BRN-F-XLN-FOSS-OOL-HD-DNS

MISSING SAMPLE

MISSING SAMPLE

3200 BERN LS 3235'

LS-TN-F-XLN-SLI CHLKY-TR FOSS-HD-DNS W/ FEW PC OF LS-CRM-F-M-XLN-EDGES-FR INTER-XLN POR-NO VIS FLOR-NO VIS CUT W/ CHRT-TN-OPQ-FRSH

WT. 8.7
VIS 77

WT. 8.7
VIS 74

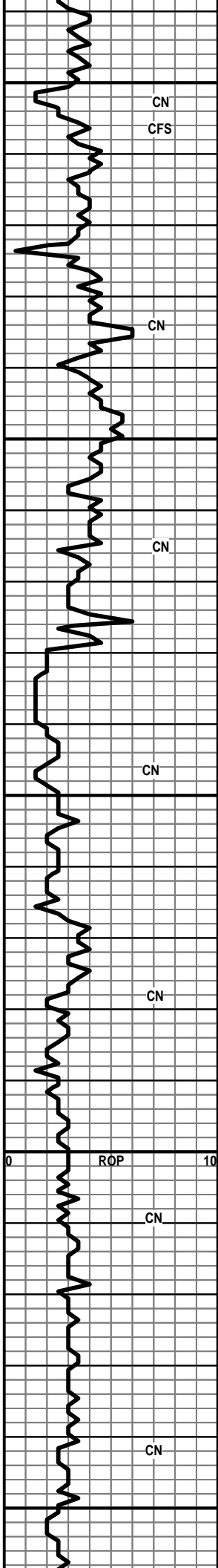
WT. 8.7
VIS 69

WT. 8.7
VIS 68

WT. 8.9
VIS 63

DST #3
3228'-3257'
REC 315' MUD
IBLW-STEADY
BLW/BOB IN 5 MIN
FBLW-V-STRNG
BLW/BOB
INSTANTLY/GAS TO
SURF IN 2 MIN

30/60/60/90
SIP-1216.95-1218.69
IFP-144.94-147.76
FFP-138.84-175.78
HP-1553.88-1462.12



LS-CRM-M-CRS-XLN-BRIT-FOSS-FR INTER-XLN POR W/
CHT-TN-OPQ-FRSH

3250

SH-LT GRY-SPLNTY

LS-OFF WHT-F-XLN-OOL-HD-DNS 1 PC-W/ PR
OOL-MOLDIC POR-NO VIS FLOR-NO VIS CUT

LS-CRM-F-GRN W/ SNDY TEX-OOL-FOSS-HD-DNS-TR
GLAU

LS-A.A. W/PR INTER-GRN POR IP-NO VIS POR-NO VIS
CUT

3300

LS-GRY-F-XLN-HD-DNS

LS-GRY-F-XLN-FOSS SHELLS-HD-DNS

LS-CRM-M-GRN-BRIT-CHLKY-IP-FOSS FRAGS-TR PR
INTER-GRN POR-DULL WHT MIN FLOR-NO VIS SHOW

LS-TN-F-XLN-CHLKY-SM FOSS FRAGS-TR
FRAC/INTER-XLN POR-DULL WHT MIN FLOR-NO VIS
SHOW

LS-GRY/TN-F-XLN-FOSS-SHLY-HD-DNS

3350

SH-LT GRY-SFT-WAXY

LS-TN/GRY-F-XLN-FOSS-HD-DNS

LS-LT BRN-F-GRN-FOSS-SHELLS-HD-DNS

SH-BLK-CARB

LS-TN-V-F-XLN-TR FOSS-HD-DNS W/
CHRT-GRY-OPQ-FOSS-FRSH

LS-OFF WHT-FXLN-BRIT-CHLKY-DNS

LS A.A.

3400

LS-TN-F-GRN-BRIT-FOSS-TR INTER-GRN TO NO VIS
POR

LS-TN-F-GRN-BRIT-CHLKY-TR FRAC POR-DULL WHT
MIN FLOR

LS-OFF WHT-FGRN-V-SM FOSS FRAGS-HD-DNS

LS-GRY-F-GRN-SHLY-HD-DNS

SEVERY

3450

SH-LT GRY-SFT-SLTY-FOSS

GAS TABLE

FLOW PERIOD-2

CHOKE INCHES 0.13

MIN	PSIA	MCF/D
10	7.2	2.69
20	9.9	3.71
30	12.8	4.79
40	14.0	5.24

CHOKE INCHES 0.25

50	7.0	11.11
60	6.7	10.63

WT. 8.6
VIS 54

MUD DATA @ 3257'

WT. 8.9
VIS 68
FIL 8

WT. 9.1
VIS 59

WT. 8.9
VIS 60

TOPEKA

MUD DATA @ 3460'

WT. 9.1

VIS 59

FIL 8.8

LS-LT BRN-F-XLN-HD-DNS W/ SM PYR XLS IMBD

LS-OFF WHT-F-XLN-SM FOSS FRAGS-OOL-TR SM
VUG POR-NO VIS FLOR-NO VIS CUT

LS-CRM-F-XLN-CHLKY IP-OOL-PRLY DEV
OOL-MOLDIC/SCATT SM VUG POR-BRITE WHT MIN
FLOR-NO VIS STN OR CUT

3500 LS-OFF WHT/BLK-F-GRN-BLK OOL-BRIT-TR
OOL-MOLDIC POR-DULL WHT MIN FLOR-NO VIS CUT

LS-OFF WH/TN-F-GRN-SLI CHLKY-FOSS FRAGS-TR
SM VUG POR-DULL WHT FLOR

LS-TN-F-XLN-CHLKY-BRIT-OOL-DULL WHT MIN
FLOR-W/ CHRT-TN-OPQ-FRSH

LS-TN-F-XLN-SLI CHLKY-BRIT TO HD-DNS

LS-OFF WHT-F-XLN-CHLKY-BRIT-OOL-DNS

3550 SH-GRY-FRM-BLKY

LS-TN-F-XLN-FOSS-OOL-HD-DNS TR CHLK IN TRAY

LS-TN-F-XLN-FOSS-OOL-BRIT TO HD-PR INTER-XLN
POR-NO VIS FLOR-NO VIS CUT

LS A.A. W/ TR FREE CRS CALCITE XLS IN SAMPLE
WITH NO VIS FLOR-NO VIS CUT

LS-OFF WHT-F-XLN-BRIT TO HD-GD INTER-XLN POR
IP TO NO VIS POR-NO VIS FLOR-NO VIS CUT

3600 SH-LT GRY-FRM-FOSS-LMY
LS-GRY-F-XLN-HD-DNS

WT. 9.2

VIS 56

SH-BLK-CARB

LS-CRM-F-XLN-FOSS FRAGS-OOL-HD-DNS SAMPLE
CHLKY IP

SH-DK-GRY-FRM-BLKY-LMY

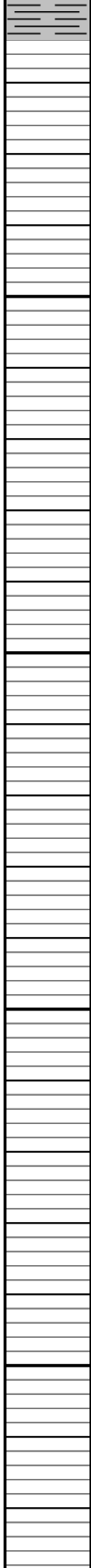
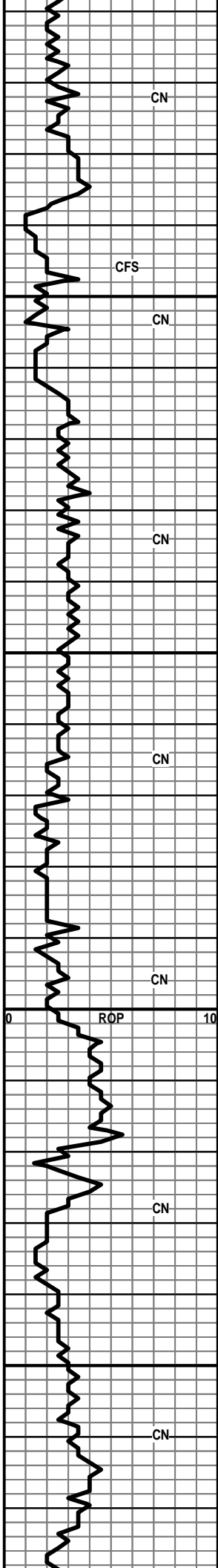
WT. 9.2

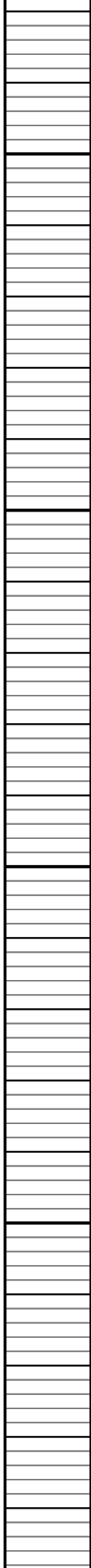
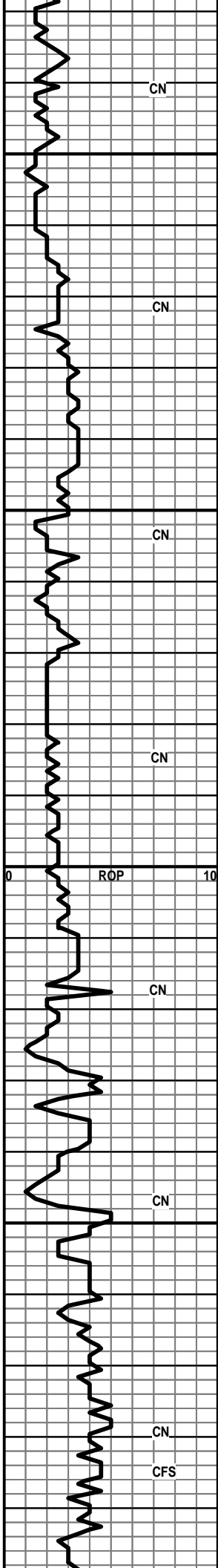
VIS 62

3650 LS-TN/GRY-F-XLN-HD-PR INTER-XLN/SM VUG POR-NO
VIS FLOR-NO VIS CUT

LS-LT GRY-F-CRS XLN-FOSS-HD W/ TR INTR-XLN POR
IN CRS XLS-NO VIS FLOR-NO VIS CUT

LS-CRM-F-XLN-CHLKY TO SLI CHLKY
MATRIX-FOSS-OOL-PR INTER-GRN/SM VUG POR-NO
VIS FLOR-NO VIS CUT





3700

LS-CRM-M-CRS-XLN-BRIT-GD INTER-XLN/VUG
POR-NO VIS FLOR-NO VIS CUT

WT. 9.2
VIS 60

LS-TN-F-XLN-CHLKY-HD-DNS

LS-OFF WHT-F-XLN-HD-DNS

SH-GRY-FRM-WAXY

LS-TN/BLK-F-GRN-BRIT-SM BLK OOL-NO VIS
POR-DULL YEL FLOR-NO VIS CUT

WT. 9.1
VIS 53

LS-OFF WHT-F-M-XLN-HD-DNS

SH-GRY-SPLNTY W/ LS-OFF WHT-F-XLN-CHLKY-DNS

3750

LS-TN-F-XLN-CHLKY-SFT-DNS

SH-GRY-GRN-SFT-SPLNTY

LS-GRY-F-XLN-BRIT-DNS

LS-TN/GRY-M-XLN-BRIT-FOSS-SHLY-TR CHLK IMBD

LS-TN-F-XLN-HD-FOSS-DNS W/LOTS OF CHLK IN
TRAY

LS-GRY-F-XLN-HD-W/SH-DK GRY IMBD-NO VIS
FLOR-NO VIS CUT

3800

LS-OFF WHT-M-CRS XLN-HD TO BRIT-FR INTER-XLN
POR IP-NO VIS FLOR-NO VIS CUT

LS-GRY-F-XLN-HD-DNS

WT. 9.2
VIS 55

SH-BLK-CARB

HEEBNER

SH-BLK-CARB

3850

LS-BRN-F-XLN-HD-FOSS-DNS-W/ SM PYR XLS

TORONTO

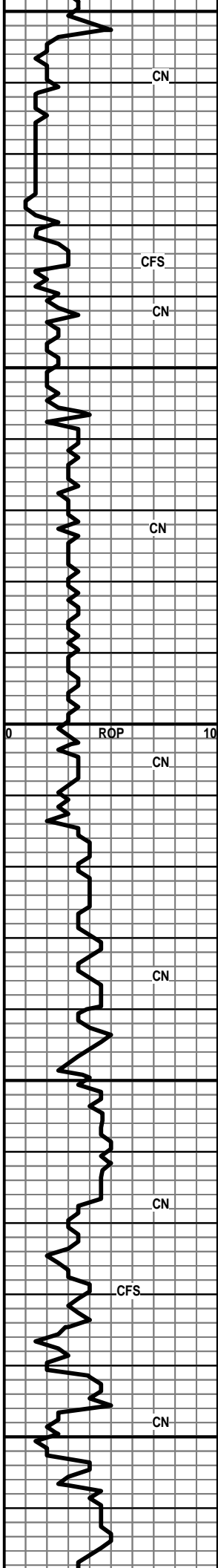
LS-TN-F-GRN-BRIT-FOSS-DNS

LS-TN-F-GRN-HD-DNS

LS-OFF WHT-F-GRN-BRIT-CHLKY-OOL-NO VIS
FLOR-NO VIS SHOW

DOUGLAS SH 3894' (-1965')

0



3900
3950
4000
4050
4100

SH-DK GRY-FRM-LMY

SS-FRSTY GRY-TT TO FRI-RND TO SUB-RND-FR
SRTEd-TR SH-HEM-FR INTER-XLN-NO VIS FLOR-NO
VIS SHOW

SS A.A.

SLTSS-FRSTY GRY-F-GRN-SHLY-HEM
SS-FRSTY WHT-F-GRN-FRI TO
TT-BLOCKY-RNDED-WELL SRTEd-CALC CMT-FR
INTER-GRNPOR-NO VIS FLOR-NO VIS SHOW

SLTSS/SS/SH-LT GRY-SILTY A.A.

LS-DK BRN-F-XLN-V-OOL-V-FOSS-TR OOL-MOLDIC
POR-NO VIS FLOR-NO VIS SHOW

SLTSS-FRSTY GRY-F-GRN-SHLY-W/ SH-LT GRY-WAX

BROWN LS 4014'

LS-DK BRN-F-XLN-V-FOSS-OOL-HD-DNS

LS A.A. W/TR FOSS VUG POR-NO VIS FLOR-NO VIS
SHOW

LS-DK BRN-F-XLN-V-FOSS-SHELLS-TR FOSS VUG
POR-NO VIS FLOR-NO VIS SHOW

LS-TN-F-GRN-BRIT-SLI CHLKY-TR PP POR-NO VIS
FLOR-NO VIS SHOW

LS-GRY-F-XLN-BLOCKY-HD-DNS

LS-TN/GRY MOTT-F-XLN-SLI CHLKY-FOSS-TR
INTER-XLN POR-SEV PCS W/ BRITE YEL FLOR-NO VIS
CUT

SH-GRY-SPLNTY

LS-TN-V-F-XLN-HD DNS

LS-CRM-F-GRN-SNDY TEX-BRIT-FOSS FRAGS-V-SM
PYR XLS IMBD-SEV PCS DK BRN EDGE STN-NO VIS
FLOR-NO VIS CUT

LS-TN/GRY-F-XLN-HD-FOSS-DNS

LS CRM M GRN BRIT FOSS OOL TR INTER GRN POR

MUD DATA @ 3900'

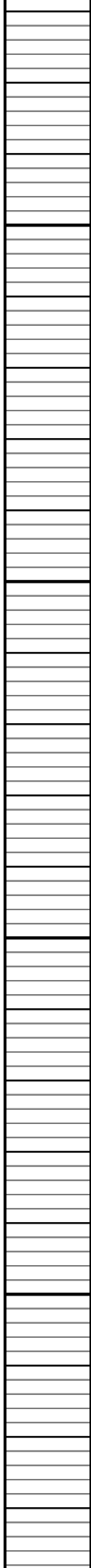
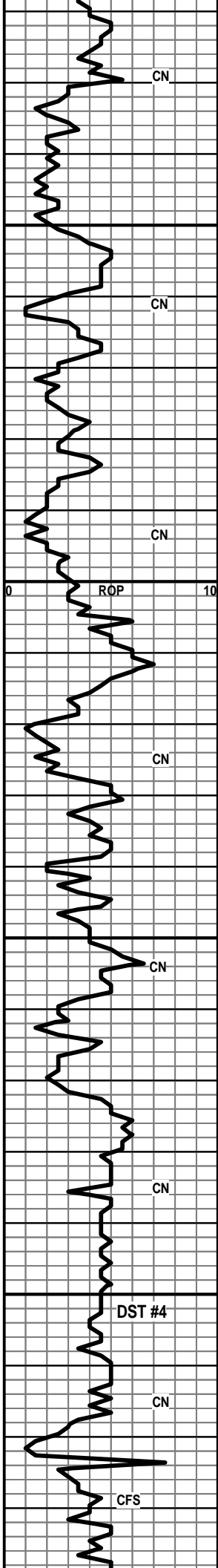
WT. 9.5
VIS 56
FIL 9.0

WT. 9.3
VIS 60

WT. 9.2
VIS 57

WT. 9.2
VIS 57

WT. 9.2
VIS 83



LS-CRM-F-GRN-BRIT-FOSS-OOL-TR INTER-GRN POR
IP TO NO VIS POR-NO VIS FLOR-NO VIS CUT W/
CHRT-LT GRY-OPQ-FRSH

4150 LS-TN-F-XLN-HD-DNS-PYR XLS IMBD THRU

LS A.A. W/ CHLK IN TRAY

LS-TN-F-GRN-BRIT-CHLKY-FOSS-SHLY-PR
INTER-GRN POR-DULL WHT MIN FLOR-NO VIS SHOW

SH-DK GRY-SPLNTY-SILTY

LS-TN-F-GRN-SNDY TEX-BRIT-FOSS-TR SH DK GRY
IMBD-TR EDGE INTER-GRN POR-NO VIS FLOR-NO VIS
CUT

4200 LS A.A. INCRS OF CHLK IN TRAY

LS-GRY-F-XLN-HD-FOSS-DNS

LS-LT BRN-F-XLN-OOL-BRIT TO HD-PRLY DEV
OOL-MOLDIC POR-NO VIS FLOR-NO VIS SHOW

LS-TN-F-XLN-OOL-FOSS-HD TO BRIT-TR PRLY DEV
OOL-MOLDIC POR-SEV PCS BRITE YEL FLOR-NO VIS
CUT-NO ODOR-CHLK IN TRAY

4250 LS-CRM-F-XLN-OOL-HD-DNS W/ PYR VEINS THRU SE
PC'S

LS-CRM-F-XLN-CHLKY IP-V-FOSS-OOL-TR
PP/INTER-XLN POR-DULL WHT MIN FLOR-NO VIS CUT

LS-TN-F-XLN-SLI-CHLKY-BRIT-FOSS-TR TO PR
INTER-GRN POR-DULL WHT FLOR-NO VIS
CUT-CHRT-GRY-OPQ-FOSS-FRSH IN TRAY

LS-OFF WHT-F-XLN-OOL-HD-DNS W/ CHRT-LT
GRY-TRANS-FRSH

4300 LS A.A.

LS-OFF WHT-F-XLN-OOL-HD-DNS

LS-OFF WHT-F-XLN-OOL-PRLY DEV OOL-MOLDIC
POR-NO VIS FLOR-NO VIS CUT 1 PC LS-OFF
WHT-F-XLN-W/ CRS CALCITE XLS ON EDGE-NO VIS
FLOR-NO VIS CUT

LS-TN-F-XLN-HD-DNS W/ CHRT-TN-OPQ-FRSH

MUD DATA @ 4243'

WT. 9.6
VIS 54
FIL 9.0

WT. 9.6
VIS 55

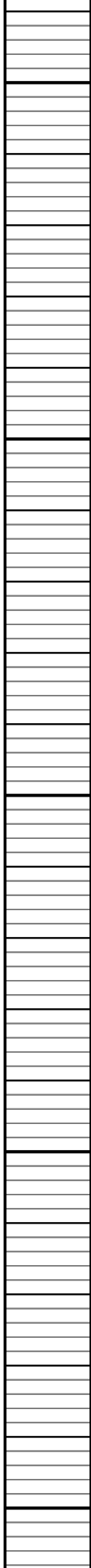
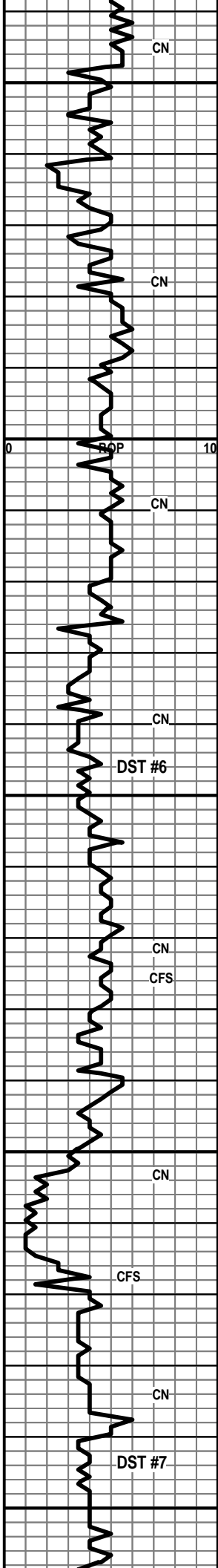
DST #4

4308'-4330'
REC 40'MUD
IBLW-FR BLDING BLW
BOB IN 8 MIN
FBLW-STRNG BLW
BOB INSTANTLY
15/60/45/90
SIP-371.08-583.22
IFP-76.82-43.66
FFP-39.47-46.69
HP-2133.56-2105.58

WT. 9.4
VIS 47

MUD DATA @ 4330'

WT. 9.3
VIS 44
FIL 8.8



4350 LS AND CHRT A.A.

LS-CRM-V-F-GRN-BRIT-ABUNDT SM FOSS FRAGS-PR INTER-GRN POR-YEL/GLD FLOR-NO VIS CUT

LS-TN-GRY-F-XLN-HD-DNS W/ CHLK AND CHRT-GRY-TRANS-FRSH IN TRAY

LS-DK BRN-V-F-XLN-HD-DNS

SHALES-GRY-GRN-BLK-REDISH BRN-FRM-BLKY W/ TR CHRT-TN-TRANS-FRSH

4400 SH-SK GRY-BLKY-WAXY
LS-OFF WHT-F-XLN-HD-DNS

LS TN-GRY-F-XLN-HD-DNS W/CHLK , PYR XLS,AND CHRT-TN-OPQ-FRSH IN TRAY

LS/CHRT/PYR A.A.

SH-BLK-CARB

LS-CRM-F-XLN-BRIT-CHLKY-TR PP POR-LT BRN STN-YEL/GLD FLOR-V-FNT FLSH CUT

4450 LS-TN-F-XLN-OOL-HD-PR PP POR-LT TO DK BRN STN-YEL/GLD FLOR-V-FNT CUT TO NO VIS CUT W/ CHRT-TN-GRY-OPQ-FRSH-FRAC-LT BRN STN-SOME CHRT-OFF WHT-TRIP-DK BRN STN

LS-OFF WHT/BRN-F-XLN-FOSS-OOL-GLAU-W/ CHRT-OFF WHT-OPQ-FRSH-GLAUC

LS-OFF WHT/BRN-M-XLN-FOSS-GLAUC- 1 PC DK BLK STN-NO VIS FLOR-NO VIS CUT-TR CHRT-OFF WHT-OPQ-FRSH

LS-GRY-F-XLN-V-FOSS-HD-DNS W/ CHRT-OFF WHT/BLK-TRIP-NO VIS FLOR-NO VIS CUT

4500 CHRT-OFF WHT TO TRANS-FRSH-SOME TRIP-LT BRN STN-NO VIS FLOR-FREE OIL

LS-TN-F-XLN-HD-DNS W/ CHRT-OFF WHT-OPQ- FRSH

LS-GRN-F-XLN-HD-DNS W/ LS-OFF WHT/BLK STN-V-F-GRN-SNDY-NO VIS POR-NO VIS FLOR-NO VIS CUT

4550 LS-LT GRN-F-XLN-HD-DNS W/ CHRT-TN-TRIP-DK BLK

LCM #1

WT. 9.1
VIS 53
LCM #1

WT. 9.3
VIS 48
LCM #2

WT. 9.2
VIS 52
LCM #3

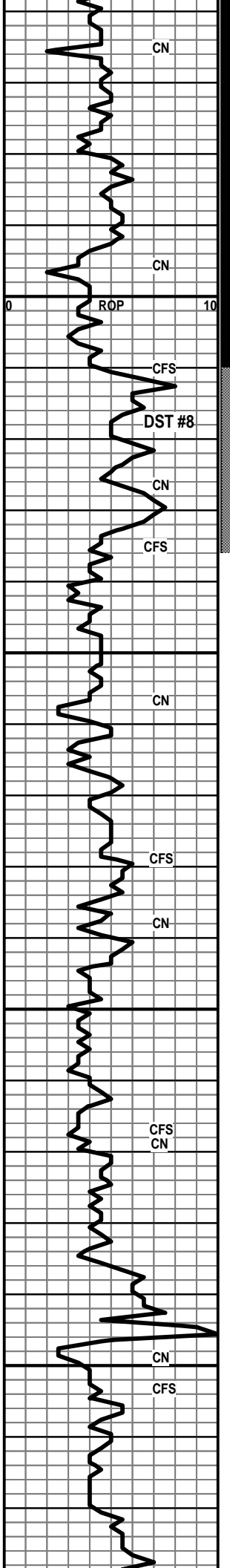
WT. 9.2
VIS 55
LCM #4

DST #6
REC 45 MUD
IBLW-FR STDY BLW 3 INCHES IN 15 MIN
FBLW-FR BLW 2.5 INCHES THEN DIED OFF
15/60/45/90
SIP-318.36-183.91
IFP-83.45-81.39
FFP-95.79-84.97

MUD DATA @ 4519'
WT. 9.3
VIS 64
FIL 8.8
LCM #4

DST #7
4529'-4609'
REC - 17.18 MCF/D GAS AND 265' MUD
IBLW-STRNG BLW-BOB IN 1 MIN
FBLW-STRNG BLW BOB INSTANTLY
5/60/60/90
SIP-538.6-535.73
IFP-246.53-163.88
FFP-164.43-162.8
HP-2378.12-2237.35

GAS CHART
FLOW PERIOD 2
CHOKE 0.75
MIN PSIA MCF/D
10 1.00 15.62



STN-NO VIS FLOR-FNT CU

LS-TN-GRY-F-XLN-HD-DNS W/CHRT-OFF WHT-TRIP
IP-DK BLK STN-NO VIS FLOR-NO VIS CUT

VIOLA 4597'

DOLO-OFF WHT/TN-M-CRS XLN-V-SUCRO-BRIT-TR
FOSS-GLAUC-GD INTER/XLN/CONNECTED VUG
POR-NO VIS FLOR-DELAYED RING CUT-STRNG ODOR
AT THE SAMPLE BOX

DOLO A.A. W/ CHLK

DOLO-OFF WHT-CRS XLN-LT BRN STN-SCATT BRITE
YEL FLOR-NO VIS CUT W/ CHRT-OFF WHT-OPQ-FRSH

DOLO-OFF WHT-M-XLN-GD INTER-XLN-TR FRAC
POR-DULL WHT FLOR-LT FLSH CUT W/
CHRT-TRANS-FRAC/PP POR-LT BRN STN-NO VIS
FLOR-GD STRM CUT-FNT ODOR

POOR SAMPLES

POOR SAMPLES

SIMPSON SAND

SS-FRSTY CLR-F-M-GRN-FRI TO TT-RND TO
SUB-RNDED-PR SRTE-DOLO CMT-SHLY IP-LT BRN
STN-NO VIS FLOR-NO VIS CUT

20	1.00	15.62
30	1.10	17.18
40	1.10	17.18

WT. 9.1
VIS 54
LCM #4

PUMP PRESSURE 650
WEIGHT ON BIT 30
STROKE 50

MUD DATA @ 4610'

WT. 9.3
VIS 64
FIL 8.8
LCM #4

WT. 9.3
VIS 49
LCM #2

PUMP PRESSURE 850
WEIGHT ON BIT 32

MUD DATA @ 4635'

WT. 9.3
VIS 49
FIL 8.8
LCM #4

DST #8
4610'-4635'
REC 30 FT MUD
IBLW-FR BLDING BLW
8 INCHES IN 30 MIN
FBLW-FR BLDING BLW
BOB IN 42 MIN

30/60/45/90
SIP-137.85-138.72
IFP-45.35-45.0
FFP-45.07-47.84
HP-2333.38-2262.39

WT. 9.2
VIS 47
LCM #3

DST #9
4791'-4800'
REC-900' SALT H2O
10% AND 90% H2O-90%
MUDDY H2O(90% MUD
AND 10% H2O)

IBLW-FR BLDING BLW
BOB IN 12 MIN
FBLW-FR BLDING BLW
BOB IN 7 MIN

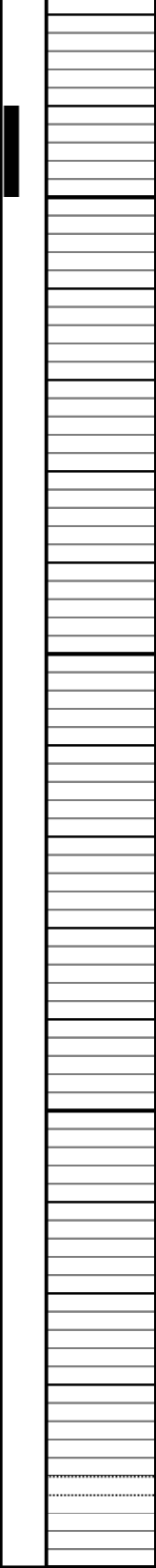
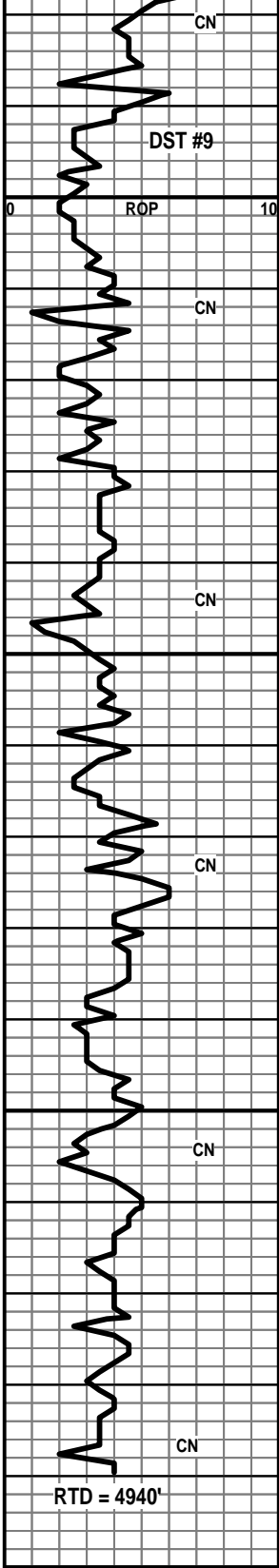
30/60/45/90
SIP-1719.6-1704.2
IFP-39.45-252.61
FFP-250.52-530.76
HP-2371.09-2248.76

4600

4650

4700

4750



ARBUCKLE

4800

SS/DOLO-FRSTY CLR/TN-M-GRN-FRI-RNDED-WELL
 SRATED-DOLO CMT-PR TO FR INTER-GRN POR-SCATT
 YEL/GLD FLOR-NO VIS CUT

DOLO-TN-M-XLN-TR FR INTER-XLN POR TO NO VIS
 POR-DULL YEL FLOR-NO VIS CUT

DOLO-CRM-F-XLN-SNDY-HD-TR
 INTER-GRN-BRITE/YEL FLOR-NO VIS CUT

DOLO-TN-F-XLN-HD-DNS W/SND
 IP-CHRT-TN-OPQ-FRSH

DOLO-CRM-M-GRN-HD-DNS W/ CHRT AND PYR XLS IN
 TRAY

DOLO A.A. BRITE YEL FLOR-NO VIS CUT

4850

DOLO-TN-M-GRN-BRIT-FR INTER-GRN POR-BRITE
 YEL FLOR-NO VIS CUT

DOLO-TN-F-XLN-TR SND-NO VIS POR-SCATT DULL
 YEL FLOR-NO VIS CUT-CHRT-WHT-OPQ-FRSH

DOLO-CRM-CRS XLN-BRIT-GD INTER-XLN POR-NO
 VIS FLOR-NO VIS CUT W/ CHRT-TRANS-OOL-FRSH

DOLO-TN-M-GRN-HD-PR INTER-GRN POR-DULL WHT
 FLOR-NO VIS CUT-CHRT-WHT-OPQ-FRSH

DOLO-CRM-V-F-GRN-SNDY TEX-NO VIS POR-NO VIS
 FLOR-NO VIS SHOW

4900

DOLO-OFF WHT-CRS-XLN-FR INTER-XLN POR-DULL
 WHT MIN FLOR

POOR SAMPLE

DOLO CRM-F-XLN-SNDY-HD-DNS W/ ABUNDT CHRT
 -VARIG-OPQ-FRSH IN TRAY

DOLO-CRM-F-XLN-HD-DNS

50

MUD DATA @ 4785'

WT. 9.2
 VIS 54
 FIL 8.8
 LCM #4

WT. 9.2
 VIS 68
 LCM #4

MUD DATA @ 4876'

WT. 9.1
 VIS 48
 FIL 8.8
 LCM #5



DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company LLC**

9431 East Central Suite #100
Wichita, Kansas 67206+2563

ATTN: Frank Greenbaum

Thompson #1-30

30/30S/13W Barber Co.

Start Date: 2012.01.16 @ 12:32:00

End Date: 2012.01.16 @ 00:00:00

Job Ticket #: 18868 DST #: 1

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

Printed: 2012.01.16 @ 05:52:50



DRILL STEM TEST REPORT

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18868

DST#: 1

ATTN: Frank Greenbaum

Test Start: 2012.01.16 @ 12:32:00

GENERAL INFORMATION:

Formation: **Winfield**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345/Great Bend/150

Interval: 2210.00 ft (KB) To 2273.00 ft (KB) (TVD)

Reference Elevations: 1929.00 ft (KB)

Total Depth: 2273.00 ft (KB) (TVD)

1918.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6666 Outside

Press @ RunDepth: 790.69 psia @ 2269.59 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.01.16

End Date: 2012.01.16

Last Calib.: 2012.01.16

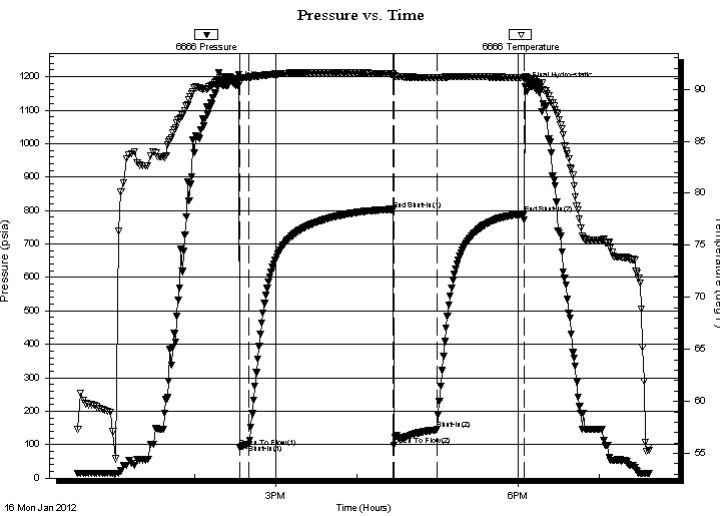
Start Time: 12:32:00

End Time: 19:37:30

Time On Btm: 2012.01.16 @ 14:32:00

Time Off Btm: 2012.01.16 @ 18:05:30

TEST COMMENT: 1ST Opening 5 Minutes strong blow /blow blew to bottom of bucket in 1 minute
 1ST Shut-In 120 Minutes no blow back
 2ND Opening 30 Minutes very strong blow /blow blew to bottom of bucket in 1 minute
 2ND Shut-In 60 Minutes yes blow back 3 inches



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1173.52	91.00	Initial Hydro-static
2	93.05	91.04	Open To Flow (1)
8	101.67	91.15	Shut-In(1)
115	803.68	91.46	End Shut-In(1)
116	97.79	91.30	Open To Flow (2)
148	147.07	91.09	Shut-In(2)
212	790.69	91.09	End Shut-In(2)
214	1169.92	91.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
220.00	Mud 100%	1.08

Gas Rates

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



DRILL STEM TEST REPORT

F.G.Holl Company LLC
 9431 East Central Suite #100
 Wichita, Kansas 67206+2563
 ATTN: Frank Greenbaum

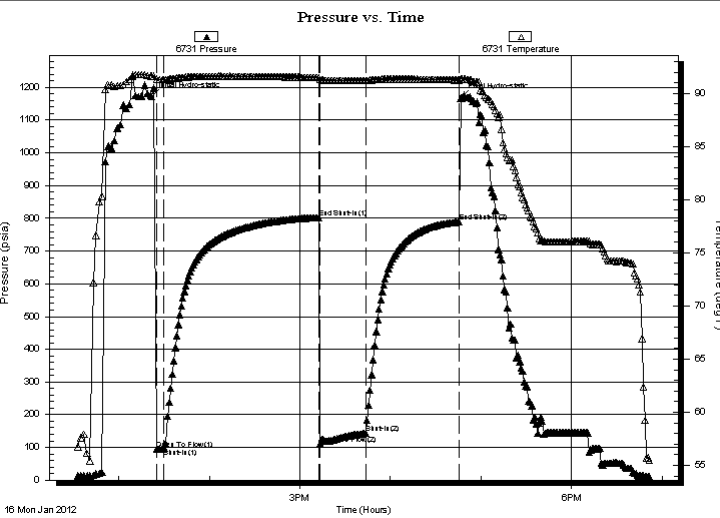
30/30S/13W Barber Co.
Thompson #1-30
 Job Ticket: 18868 **DST#: 1**
 Test Start: 2012.01.16 @ 12:32:00

GENERAL INFORMATION:

Formation: **Winfield**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:00:00 Tester: Dylan E Ellis
 Time Test Ended: 00:00:00 Unit No: 3345/Great Bend/150
 Interval: **2210.00 ft (KB) To 2273.00 ft (KB) (TVD)** Reference Elevations: 1929.00 ft (KB)
 Total Depth: 2273.00 ft (KB) (TVD) 1918.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 6731 Inside
 Press @ Run Depth: 789.37 psia @ 2268.59 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.01.16 End Date: 2012.01.16 Last Calib.: 2012.01.16
 Start Time: 12:32:00 End Time: 18:52:00 Time On Btm: 2012.01.16 @ 13:22:00
 Time Off Btm: 2012.01.16 @ 16:46:30

TEST COMMENT: 1ST Opening 5 Minutes strong blow /blow blew to bottom of bucket in 1 minute
 1ST Shut-In 120 Minutes no blow back
 2ND Opening 30 Minutes very strong blow /blow blew to bottom of bucket in 1 minute
 2ND Shut-In 60 Minutes yes blow back 3 inches



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1172.58	91.63	Initial Hydro-static
3	93.52	91.33	Open To Flow (1)
8	98.71	91.28	Shut-In(1)
111	802.41	91.48	End Shut-In(1)
112	110.76	91.29	Open To Flow (2)
142	142.38	91.21	Shut-In(2)
204	789.37	91.25	End Shut-In(2)
205	1167.53	91.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
220.00	Mud 100%	1.08

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18868

DST#: 1

ATTN: Frank Greenbaum

Test Start: 2012.01.16 @ 12:32:00

Tool Information

Drill Pipe:	Length: 1977.00 ft	Diameter: 3.80 inches	Volume: 27.73 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: 221.18 ft	Diameter: 2.25 inches	Volume: 1.09 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 28.82 bbl</u>	Tool Chased 15.00 ft
Drill Pipe Above KB:	17.18 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	2210.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.59 ft			
Tool Length:	91.59 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			2186.00	
Hydraulic Tool	5.00			2191.00	
Jars	6.00			2197.00	
Safety Joint	3.00			2200.00	
Top Packer	5.00			2205.00	
Packer	5.00			2210.00	29.00 Bottom Of Top Packer
Perforations	5.00			2215.00	
Change Over Sub	0.75			2215.75	
Drill Pipe	30.09			2245.84	
Change Over Sub	0.75			2246.59	
Anchor	21.00			2267.59	
Recorder	1.00	6731	Inside	2268.59	
Recorder	1.00	6666	Outside	2269.59	
Bull Plug	3.00			2272.59	62.59 Anchor Tool

Total Tool Length: 91.59



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18868

DST#: 1

ATTN: Frank Greenbaum

Test Start: 2012.01.16 @ 12:32:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 41.00 sec/qt

Water Loss: 27.98 in³

Resistivity: ohm.m

Salinity: 110000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
220.00	Mud 100%	1.082

Total Length: 220.00 ft Total Volume: 1.082 bbl

Num Fluid Samples: 0

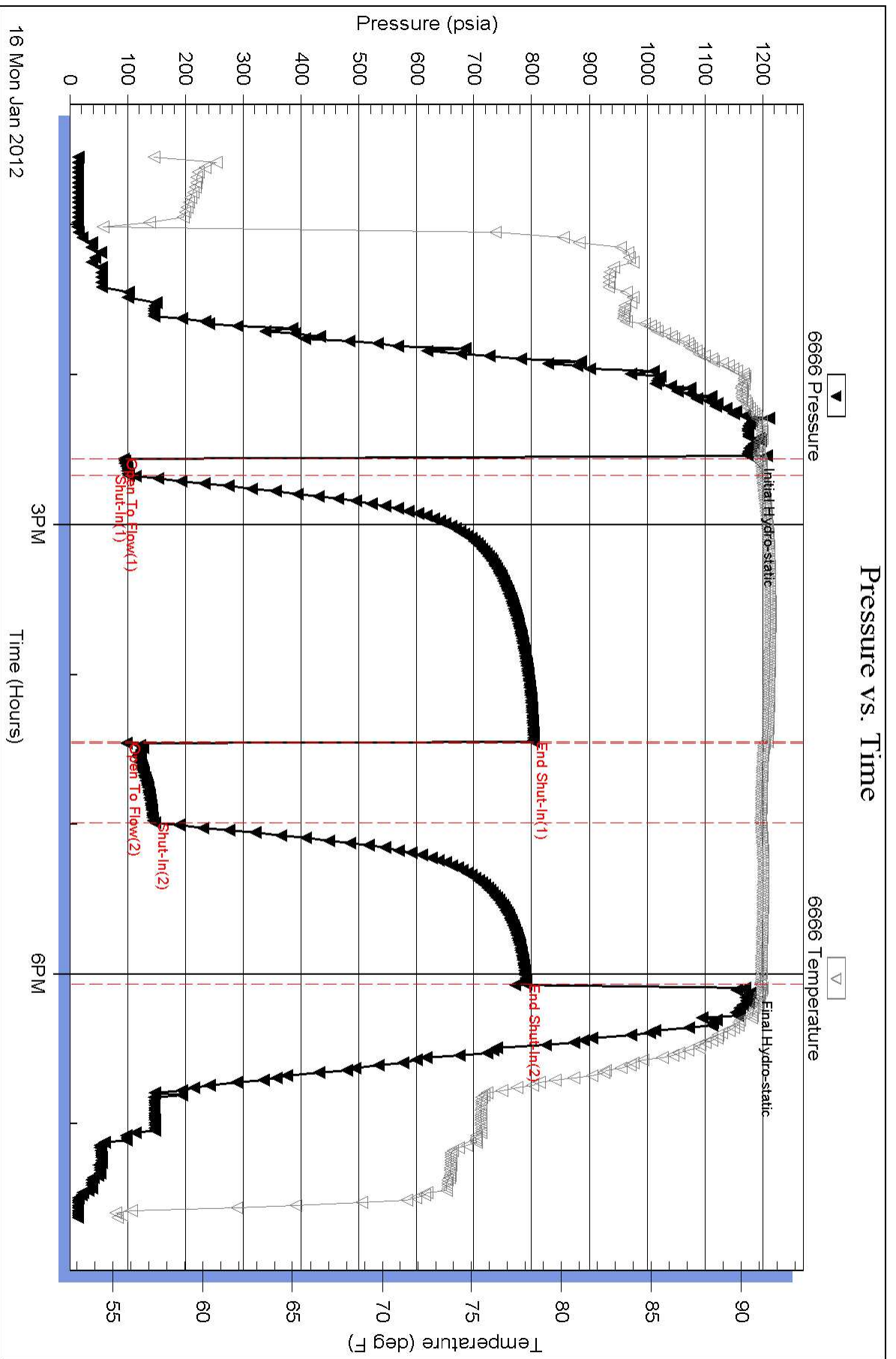
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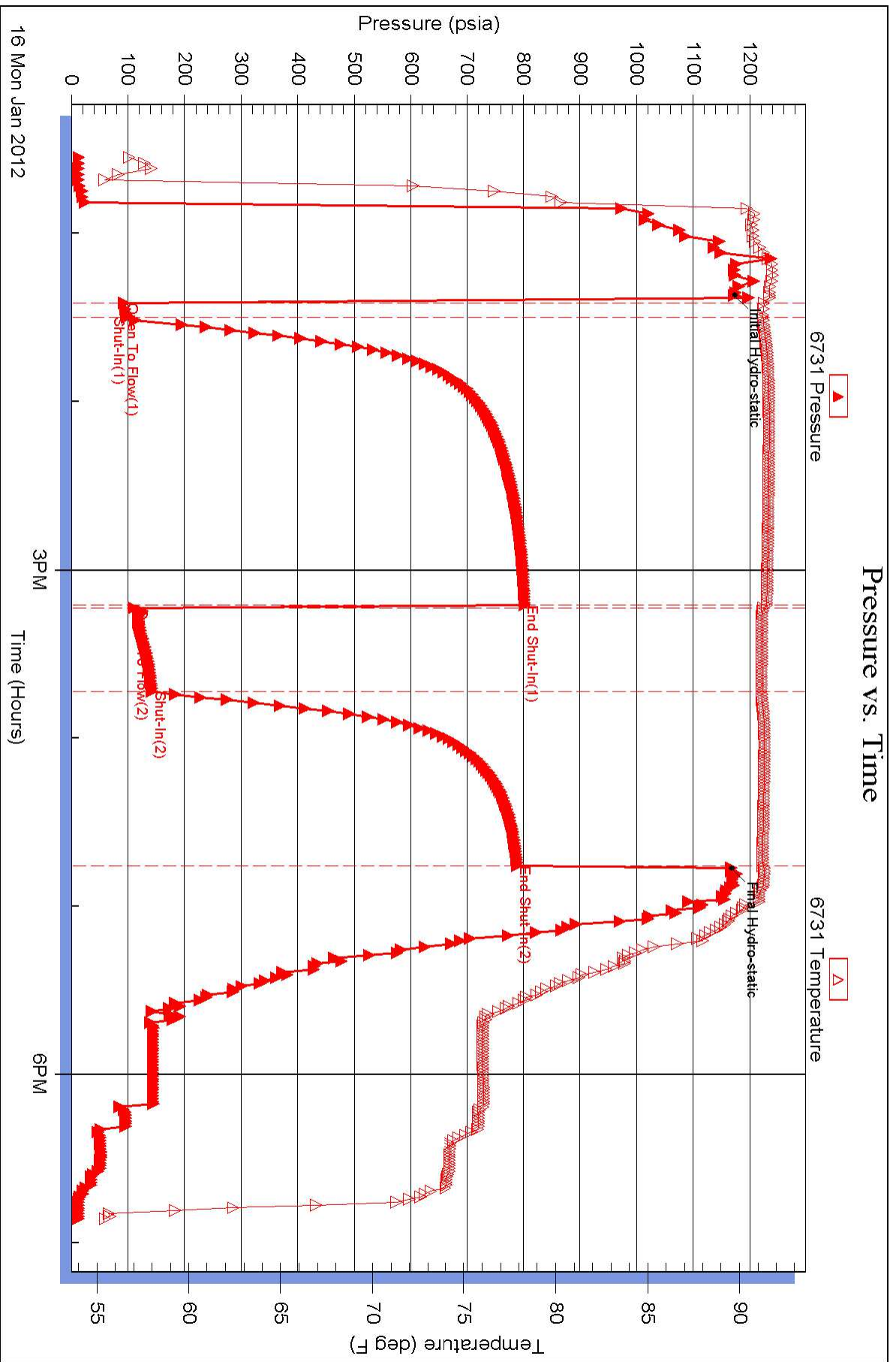
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company LLC**

9431 East Central Suite #100
Wichita, Kansas 67206+2563

ATTN: Frank Greenbaum

Thompson #1-30

30/30S/13W Barber Co.

Start Date: 2012.01.18 @ 05:00:00

End Date: 2012.01.18 @ 00:00:00

Job Ticket #: 18869 DST #: 2

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

Printed: 2012.01.18 @ 08:21:06



DRILL STEM TEST REPORT

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18869

DST#: 2

ATTN: Frank Greenbaum

Test Start: 2012.01.18 @ 05:00:00

GENERAL INFORMATION:

Formation: **Indian Cave**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345/Great Bend/150

Interval: 2904.00 ft (KB) To 2955.00 ft (KB) (TVD)

Reference Elevations: 1929.00 ft (KB)

Total Depth: 2955.00 ft (KB) (TVD)

1918.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6666 Outside

Press @ RunDepth: 957.70 psia @ 2952.19 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.01.18

End Date: 2012.01.18

Last Calib.: 2012.01.18

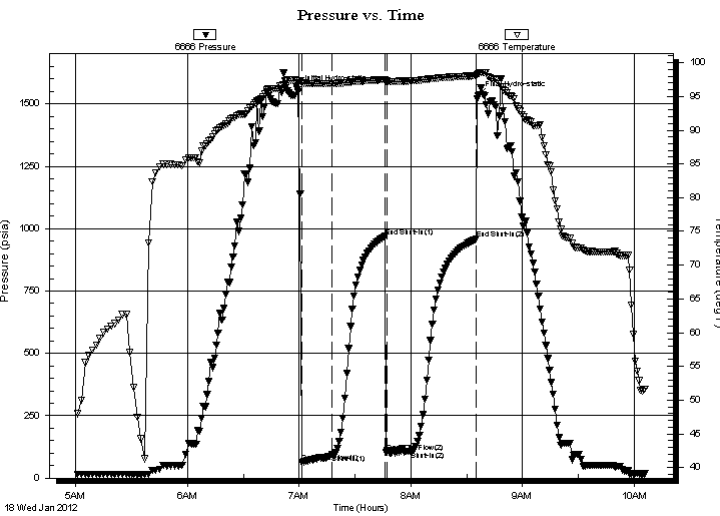
Start Time: 05:00:00

End Time: 10:05:30

Time On Btm: 2012.01.18 @ 06:59:00

Time Off Btm: 2012.01.18 @ 08:36:00

TEST COMMENT: 1ST Opening 15 Minutes very weak blow/blow built 2 inches into bucket of water
 1ST Shut-In 30 Minutes no blow back
 2ND Opening 15 Minutes very weak blow/blow blew 1 inch into bucket of water
 2ND Shut-In 30 Minutes no blow back



PRESSURE SUMMARY

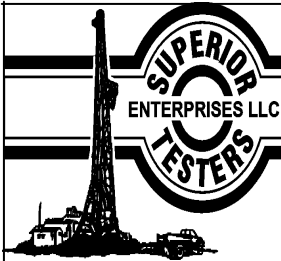
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1557.68	97.32	Initial Hydro-static
3	63.42	97.00	Open To Flow (1)
19	95.78	96.91	Shut-In(1)
47	968.64	97.47	End Shut-In(1)
48	105.02	97.25	Open To Flow (2)
61	108.63	97.32	Shut-In(2)
96	957.70	98.07	End Shut-In(2)
97	1533.22	98.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	Drilling Mud 100%	0.49

Gas Rates

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



DRILL STEM TEST REPORT

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18869

DST#: 2

ATTN: Frank Greenbaum

Test Start: 2012.01.18 @ 05:00:00

GENERAL INFORMATION:

Formation: **Indian Cave**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345/Great Bend/150

Interval: **2904.00 ft (KB) To 2955.00 ft (KB) (TVD)**

Reference Elevations: 1929.00 ft (KB)

Total Depth: 2955.00 ft (KB) (TVD)

1918.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: **6731** Inside

Press @ RunDepth: 956.58 psia @ 2951.19 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.01.18

End Date: 2012.01.18

Last Calib.: 2012.01.18

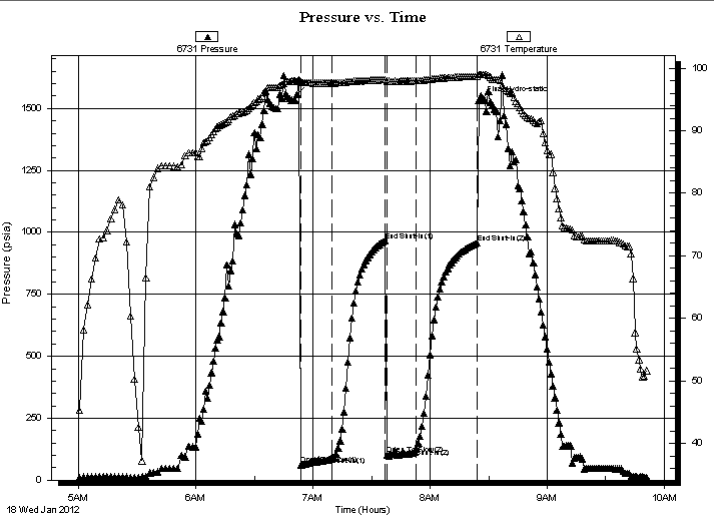
Start Time: 05:00:00

End Time: 09:50:53

Time On Btm: 2012.01.18 @ 06:51:53

Time Off Btm: 2012.01.18 @ 08:25:23

TEST COMMENT: 1ST Opening 15 Minutes very weak blow/blow built 2 inches into bucket of water
 1ST Shut-In 30 Minutes no blow back
 2ND Opening 15 Minutes very weak blow/blow blew 1 inch into bucket of water
 2ND Shut-In 30 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1557.39	97.85	Initial Hydro-static
2	61.90	97.75	Open To Flow (1)
18	94.73	97.63	Shut-In(1)
45	967.20	98.15	End Shut-In(1)
46	102.87	97.94	Open To Flow (2)
61	128.73	98.00	Shut-In(2)
92	956.58	98.70	End Shut-In(2)
94	1533.27	98.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	Drilling Mud 100%	0.49

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18869

DST#: 2

ATTN: Frank Greenbaum

Test Start: 2012.01.18 @ 05:00:00

Tool Information

Drill Pipe:	Length: 2669.00 ft	Diameter: 3.80 inches	Volume: 37.44 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: 221.18 ft	Diameter: 2.25 inches	Volume: 1.09 bbl	Weight to Pull Loose: 15000.00 lb
			<u>Total Volume: 38.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.18 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	2904.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.19 ft			
Tool Length:	80.19 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			2880.00	
Hydraulic Tool	5.00			2885.00	
Jars	6.00			2891.00	
Safety Joint	3.00			2894.00	
Top Packer	5.00			2899.00	
Packer	5.00			2904.00	29.00 Bottom Of Top Packer
Perforations	5.00			2909.00	
Change Over Sub	0.75			2909.75	
Drill Pipe	31.69			2941.44	
Change Over Sub	0.75			2942.19	
Anchor	8.00			2950.19	
Recorder	1.00	6731	Inside	2951.19	
Recorder	1.00	6666	Outside	2952.19	
Bull Plug	3.00			2955.19	51.19 Anchor Tool

Total Tool Length: 80.19



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18869

DST#: 2

ATTN: Frank Greenbaum

Test Start: 2012.01.18 @ 05:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 46.00 sec/qt
Water Loss: 16.00 in³
Resistivity: ohm.m
Salinity: 65000.00 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
100.00	Drilling Mud 100%	0.492

Total Length: 100.00 ft Total Volume: 0.492 bbl

Num Fluid Samples: 0

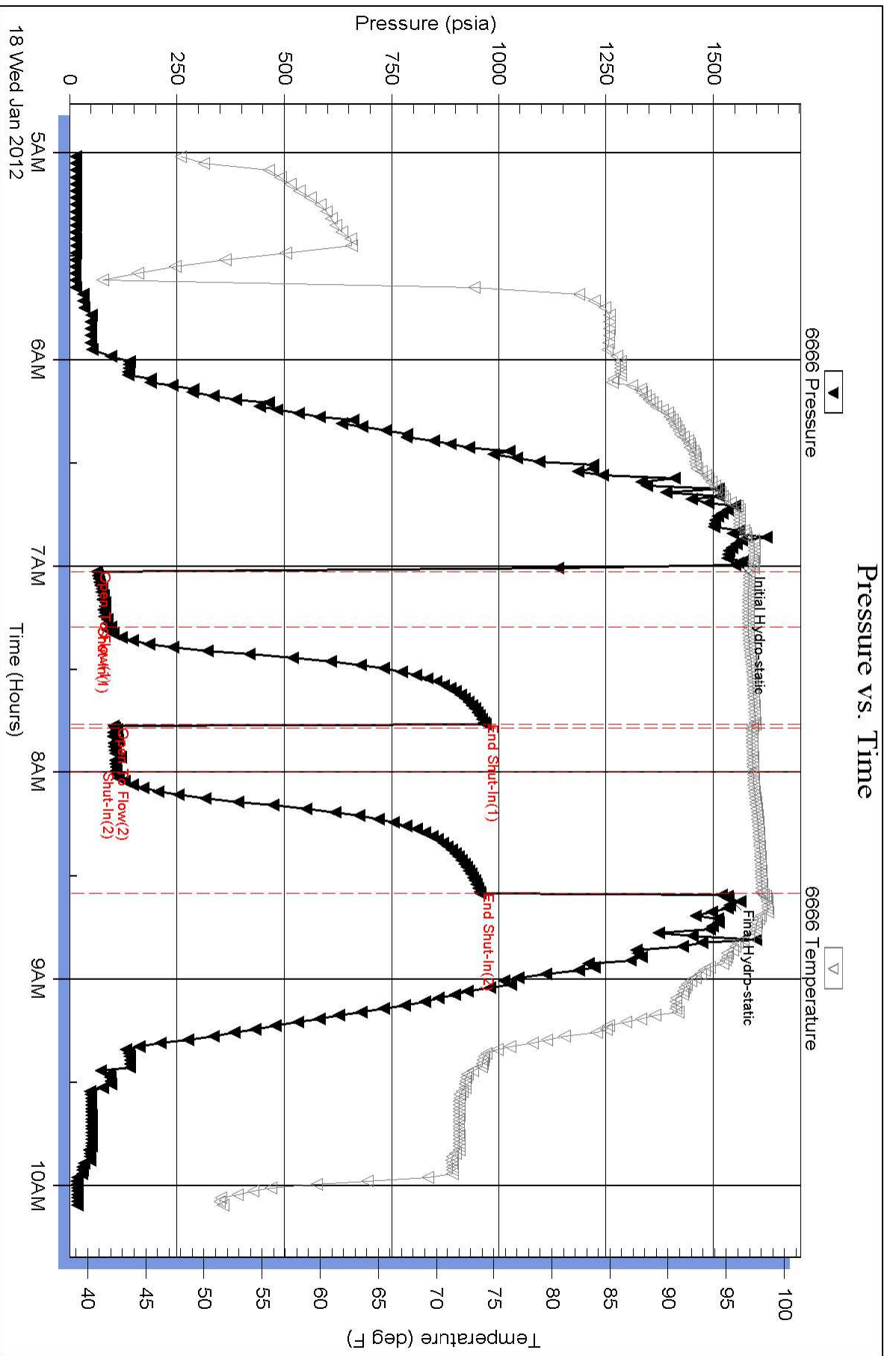
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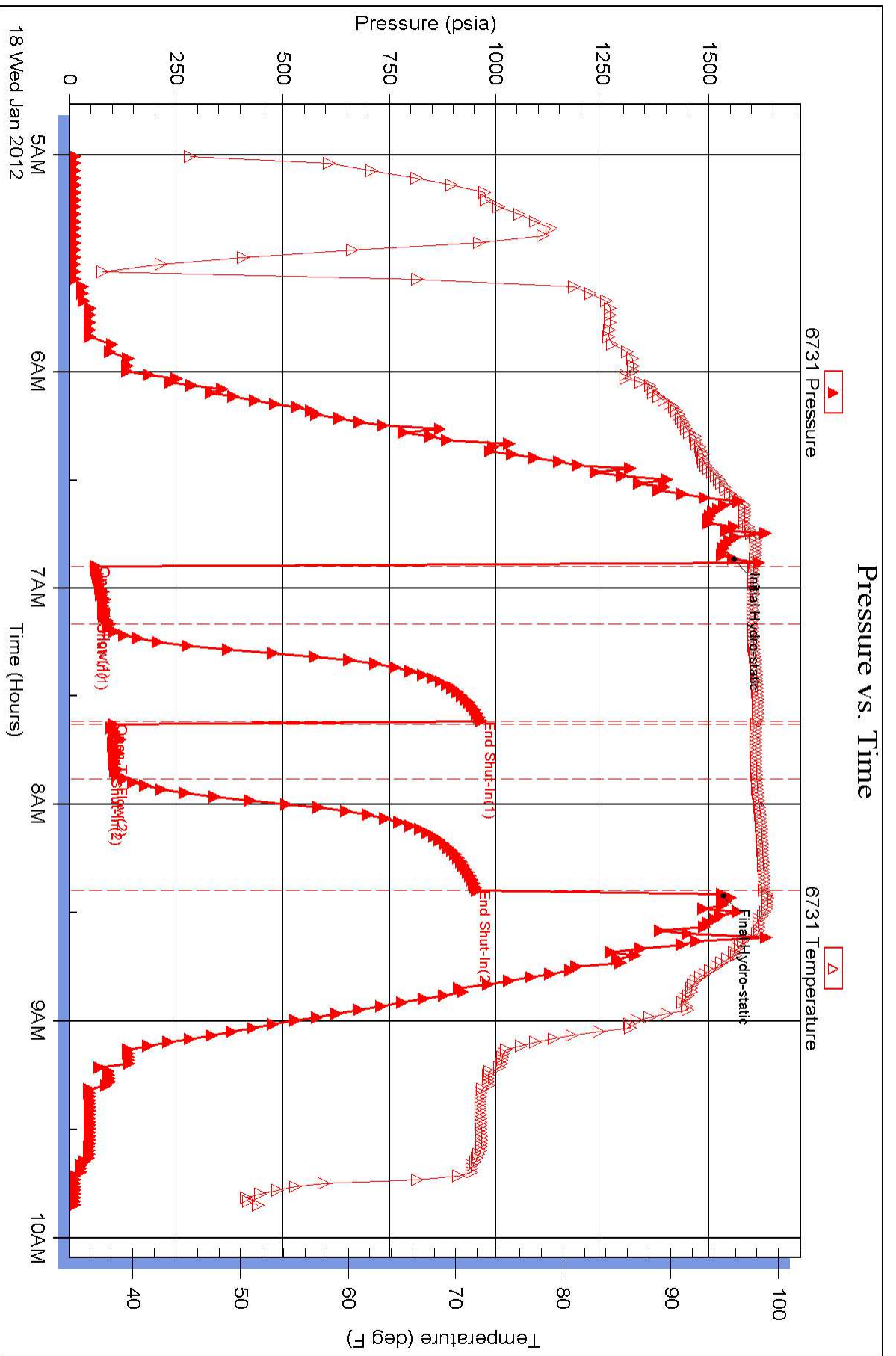
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company LLC**

9431 East Central Suite #100
Wichita, Kansas 67206+2563

ATTN: Frank Greenbaum

Thompson #1-30

30/30S/13W Barber Co.

Start Date: 2012.01.19 @ 08:58:00

End Date: 2012.01.19 @ 00:00:00

Job Ticket #: 18870 DST #: 3

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

Printed: 2012.01.19 @ 15:01:35



DRILL STEM TEST REPORT

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18870

DST#: 3

ATTN: Frank Greenbaum

Test Start: 2012.01.19 @ 08:58:00

GENERAL INFORMATION:

Formation: **Bermister**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345/Great Bend/150

Interval: 3228.00 ft (KB) To 3257.00 ft (KB) (TVD)

Reference Elevations: 1929.00 ft (KB)

Total Depth: 3257.00 ft (KB) (TVD)

1918.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

Serial #: 6666 Outside

Press @ RunDepth: 1219.79 psia @ 3254.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.01.19

End Date: 2012.01.19

Last Calib.: 2012.01.19

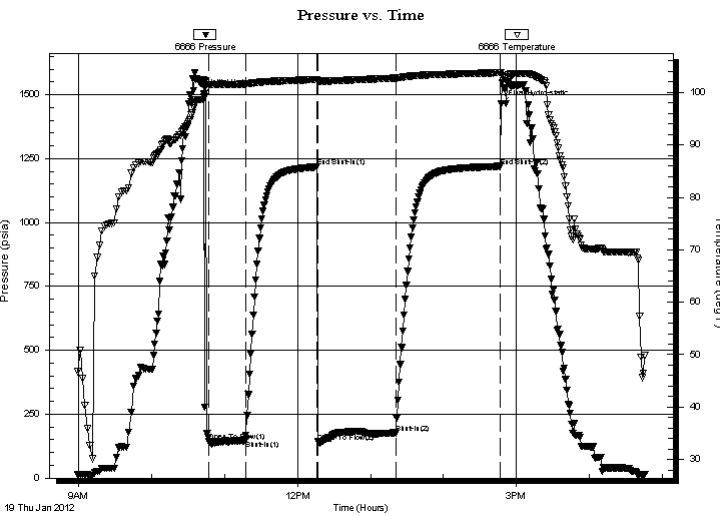
Start Time: 08:58:00

End Time: 16:45:30

Time On Btm: 2012.01.19 @ 10:43:00

Time Off Btm: 2012.01.19 @ 14:47:30

TEST COMMENT: 1ST Opening 30 Minutes steady bow/blow blew to bottom of bucket in 5 minues
 1ST Shut-In 60 Minutes yes blow back/3 inches
 2ND Opening 60 Minutes very strong blow/blow blew to bottom of bucket instantly
 2ND Shut-In 90 Minutes yes blow back/look at gas chart



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1502.89	99.14	Initial Hydro-static
4	143.92	101.44	Open To Flow (1)
34	149.77	101.59	Shut-In(1)
93	1217.78	102.45	End Shut-In(1)
94	141.90	102.17	Open To Flow (2)
158	176.68	102.74	Shut-In(2)
244	1219.79	103.77	End Shut-In(2)
245	1462.87	103.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	Drilling Mud 100%	2.40

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	7.20	2.69
Last Gas Rate	0.25	6.70	10.63
Max. Gas Rate	0.13	14.00	5.24



DRILL STEM TEST REPORT

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18870

DST#: 3

ATTN: Frank Greenbaum

Test Start: 2012.01.19 @ 08:58:00

GENERAL INFORMATION:

Formation: **Bermister**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345/Great Bend/150

Interval: 3228.00 ft (KB) To 3257.00 ft (KB) (TVD)

Reference Elevations: 1929.00 ft (KB)

Total Depth: 3257.00 ft (KB) (TVD)

1918.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

Serial #: 6731 Inside

Press @ RunDepth: 1218.69 psia @ 3253.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.01.19

End Date: 2012.01.19

Last Calib.: 2012.01.19

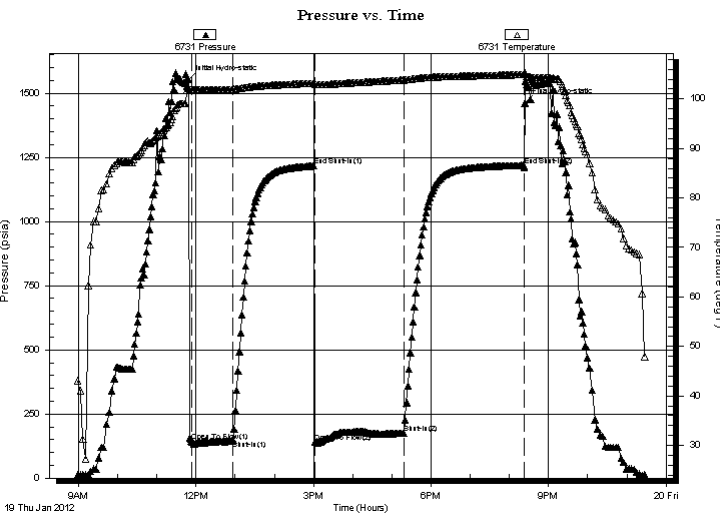
Start Time: 08:58:00

End Time: 16:45:00

Time On Btm: 2012.01.19 @ 11:48:30

Time Off Btm: 2012.01.19 @ 20:23:30

TEST COMMENT: 1ST Opening 30 Minutes steady bow/blow blew to bottom of bucket in 5 minues
 1ST Shut-In 60 Minutes yes blow back/3 inches
 2ND Opening 60 Minutes very strong blow/blow blew to bottom of bucket instantly
 2ND Shut-In 90 Minutes yes blow back/look at gas chart



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1553.88	102.09	Initial Hydro-static
5	144.94	101.90	Open To Flow (1)
69	147.76	101.95	Shut-In(1)
192	1216.95	103.19	End Shut-In(1)
194	138.84	102.92	Open To Flow (2)
331	175.78	103.83	Shut-In(2)
514	1218.69	104.91	End Shut-In(2)
515	1462.12	105.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	Drilling Mud 100%	2.40

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	7.20	2.69
Last Gas Rate	0.25	6.70	10.63
Max. Gas Rate	0.13	14.00	5.24



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18870

DST#: 3

ATTN: Frank Greenbaum

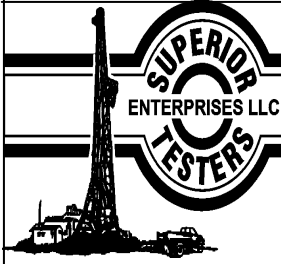
Test Start: 2012.01.19 @ 08:58:00

Tool Information

Drill Pipe:	Length: 2987.00 ft	Diameter: 3.80 inches	Volume: 41.90 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 221.18 ft	Diameter: 2.25 inches	Volume: 1.09 bbl	Weight to Pull Loose: 24000.00 lb
			<u>Total Volume: 42.99 bbl</u>	Tool Chased 25.00 ft
Drill Pipe Above KB:	9.18 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3228.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: We slide the tool 25' to bottom when we opened the tool/pulled up and hung for a minute and bleed off hose and reset the tool.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3204.00	
Hydraulic Tool	5.00			3209.00	
Jars	6.00			3215.00	
Safety Joint	3.00			3218.00	
Top Packer	5.00			3223.00	
Packer	5.00			3228.00	29.00 Bottom Of Top Packer
Perforations	24.00			3252.00	
Recorder	1.00	6731	Inside	3253.00	
Recorder	1.00	6666	Outside	3254.00	
Bull Plug	3.00			3257.00	29.00 Anchor Tool
Total Tool Length:	58.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18870

DST#: 3

ATTN: Frank Greenbaum

Test Start: 2012.01.19 @ 08:58:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 68.00 sec/qt

Water Loss: 8.00 in³

Resistivity: ohm.m

Salinity: 3800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
315.00	Drilling Mud 100%	2.404

Total Length: 315.00 ft Total Volume: 2.404 bbl

Num Fluid Samples: 0

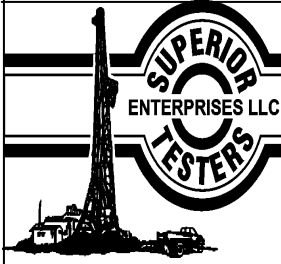
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

GAS RATES

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18870

DST#: 3

ATTN: Frank Greenbaum

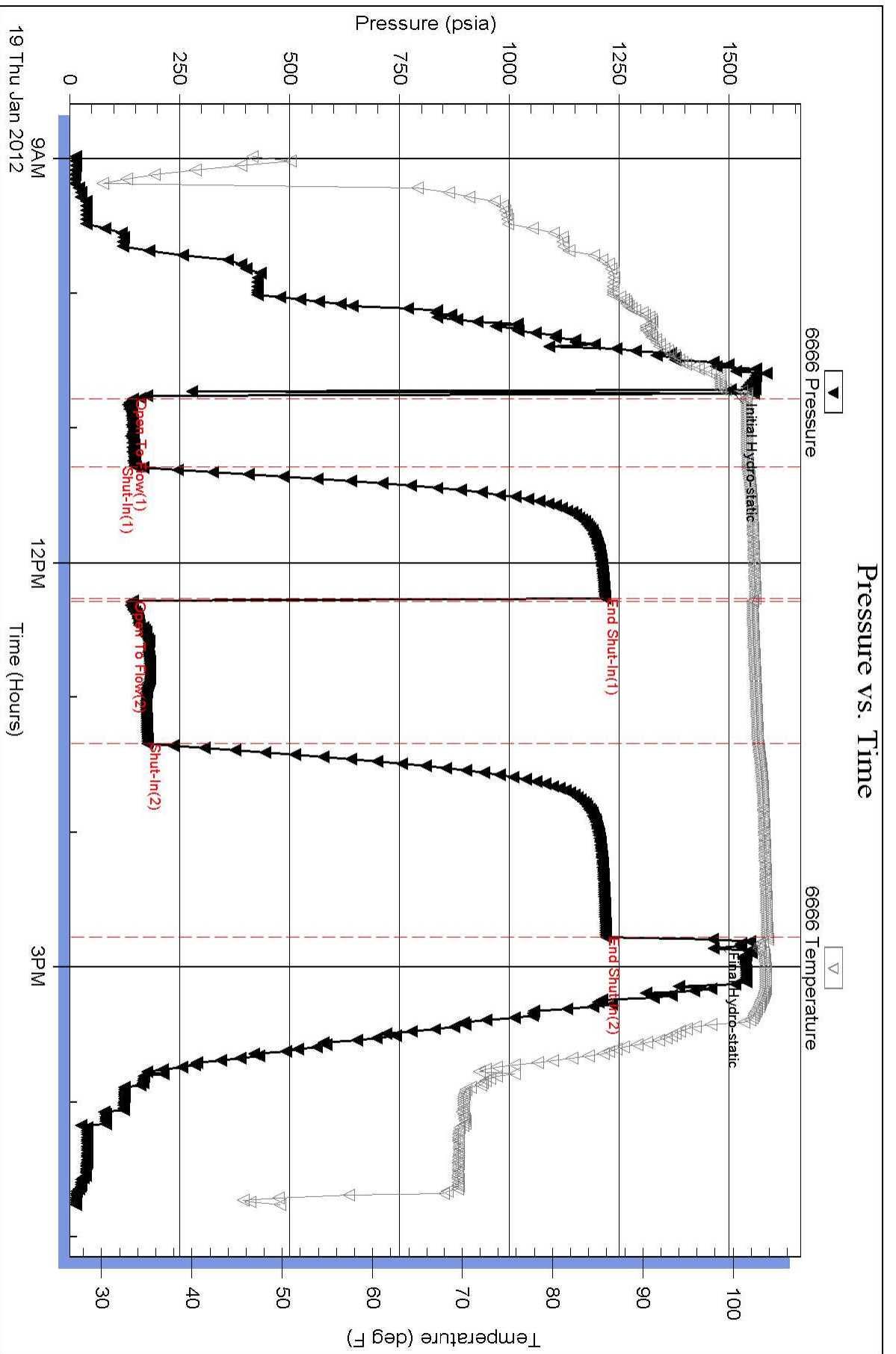
Test Start: 2012.01.19 @ 08:58:00

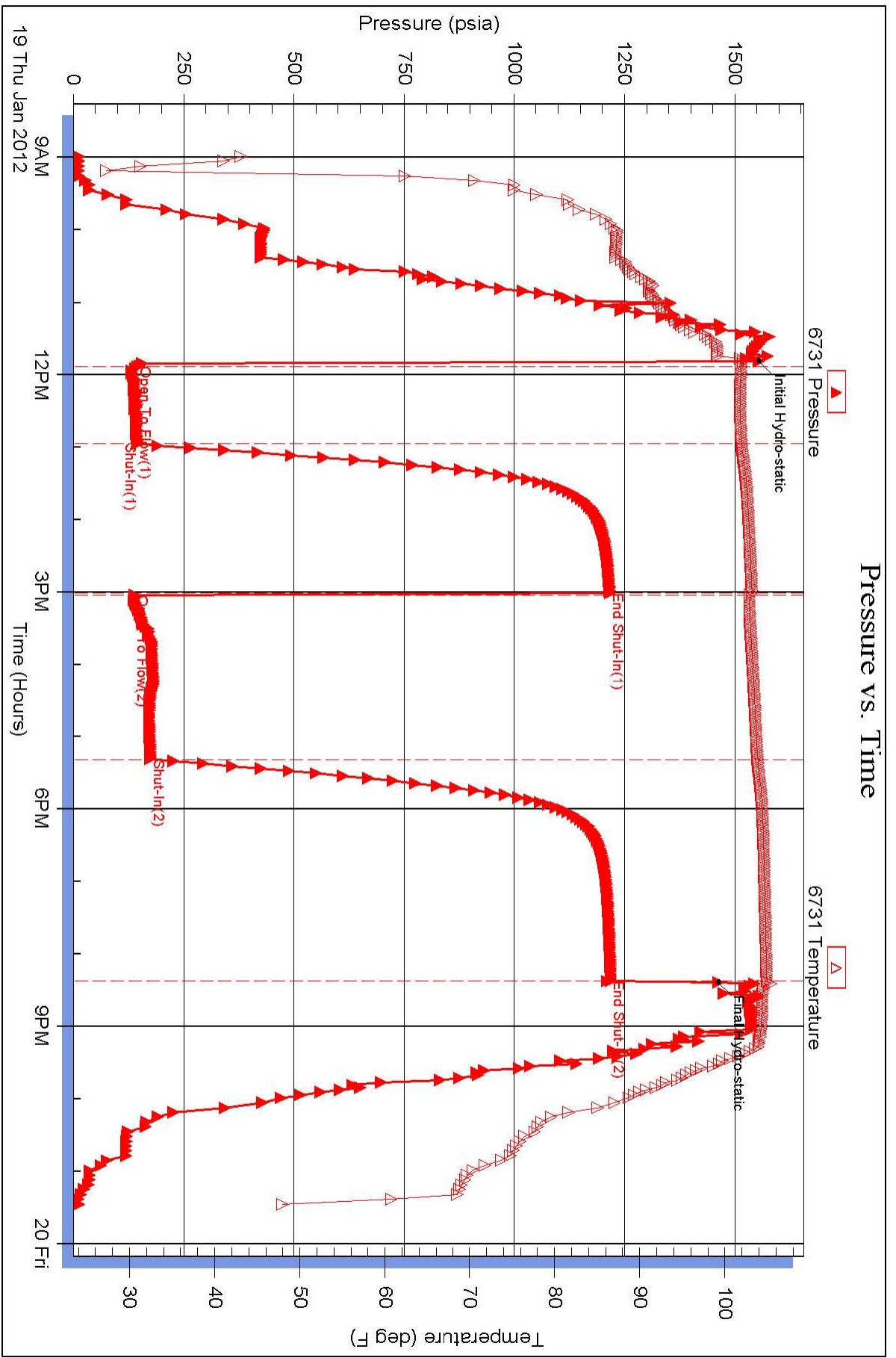
Gas Rates Information

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	0.13	7.20	2.69
2	20	0.13	9.90	3.71
2	30	0.13	12.80	4.79
2	40	0.13	14.00	5.24
2	50	0.25	7.00	11.11
2	60	0.25	6.70	10.63







DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company LLC**

9431 East Central Suite #100
Wichita, Kansas 67206+2563

ATTN: Frank Greenbaum

Thompson #1-30

30/30S/13W Barber Co.

Start Date: 2012.01.22 @ 09:20:00

End Date: 2012.01.22 @ 17:07:30

Job Ticket #: 18871 DST #: 4

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

Printed: 2012.01.23 @ 03:25:50



DRILL STEM TEST REPORT

F.G.Holl Company LLC
 9431 East Central Suite #100
 Wichita, Kansas 67206+2563
 ATTN: Frank Greenbaum

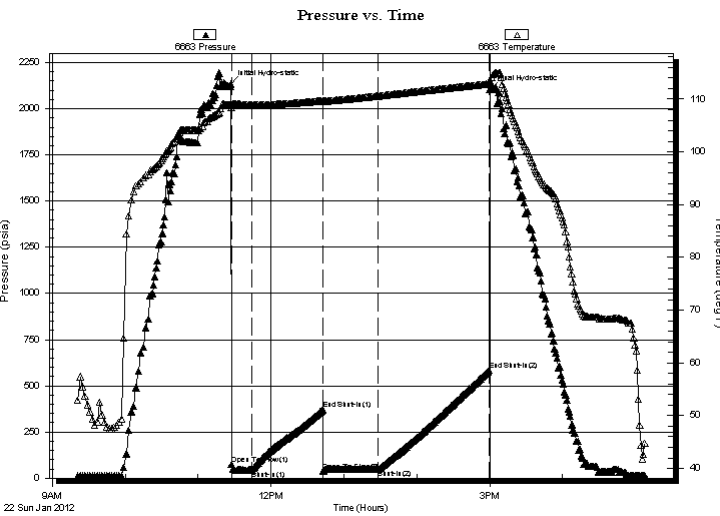
30/30S/13W Barber Co.
Thompson #1-30
 Job Ticket: 18871 **DST#: 4**
 Test Start: 2012.01.22 @ 09:20:00

GENERAL INFORMATION:

Formation: Lancing (K)	Deviated: No Whipstock: ft (KB)	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 11:27:30	Time Test Ended: 17:07:30	Tester: Dustin Ellis
Interval: 4308.00 ft (KB) To 4330.00 ft (KB) (TVD)	Reference Elevations: 1929.00 ft (KB)	Unit No: 3315-Great-Bend-150
Total Depth: 4330.00 ft (KB) (TVD)		1918.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 11.00 ft

Serial #: 6663 Outside	Press @ Run Depth: 46.69 psia @ 4310.56 ft (KB)	Capacity: 5000.00 psia
Start Date: 2012.01.22	End Date: 2012.01.22	Last Calib.: 2012.01.23
Start Time: 09:20:00	End Time: 17:07:30	Time On Btm: 2012.01.22 @ 11:27:00
		Time Off Btm: 2012.01.22 @ 15:00:00

TEST COMMENT: 1st Open 15 minutes Fair building blow blew bottom bucket in 8 minutes
 1st Shut in 60 minutes No blow back
 2nd Open 45 minutes Strong blow bottom of bucket instantly
 2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY

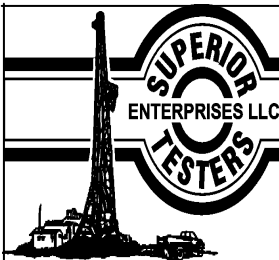
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2133.56	109.02	Initial Hydro-static
1	76.82	108.42	Open To Flow (1)
18	43.66	108.93	Shut-In(1)
76	371.08	109.70	End Shut-In(1)
76	39.47	109.59	Open To Flow (2)
121	46.69	110.56	Shut-In(2)
213	583.22	112.88	End Shut-In(2)
213	2105.58	113.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Mudd 100%	0.56

Gas Rates

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



DRILL STEM TEST REPORT

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18871

DST#: 4

ATTN: Frank Greenbaum

Test Start: 2012.01.22 @ 09:20:00

GENERAL INFORMATION:

Formation: **Lancing (K)**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:27:30

Time Test Ended: 17:07:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great-Bend-150

Interval: **4308.00 ft (KB) To 4330.00 ft (KB) (TVD)**

Reference Elevations: 1929.00 ft (KB)

Total Depth: 4330.00 ft (KB) (TVD)

1918.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: **6999** Outside

Press @ RunDepth: 581.43 psia @ 4310.56 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.01.22

End Date: 2012.01.22

Last Calib.: 2012.01.23

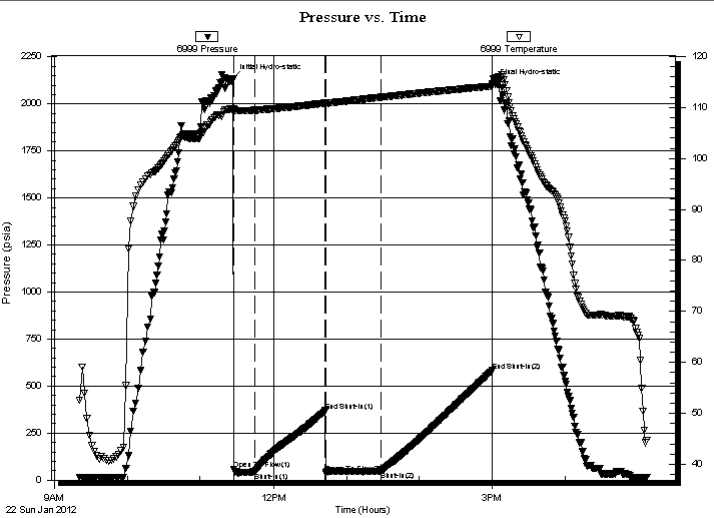
Start Time: 09:20:00

End Time: 17:07:00

Time On Btm: 2012.01.22 @ 11:27:00

Time Off Btm: 2012.01.22 @ 15:00:00

TEST COMMENT: 1st Open 15 minutes Fair building blow blew bottom bucket in 8 minutes
1st Shut in 60 minutes No blow back
2nd Open 45 minutes Strong blow bottom of bucket instantly
2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2134.64	109.64	Initial Hydro-static
1	57.47	109.01	Open To Flow (1)
18	41.47	109.46	Shut-In(1)
76	368.48	110.84	End Shut-In(1)
76	36.93	110.81	Open To Flow (2)
121	44.12	111.99	Shut-In(2)
213	581.43	114.17	End Shut-In(2)
213	2106.59	114.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Mudd 100%	0.56

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18871

DST#: 4

ATTN: Frank Greenbaum

Test Start: 2012.01.22 @ 09:20:00

Tool Information

Drill Pipe:	Length: 4310.00 ft	Diameter: 3.80 inches	Volume: 60.46 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: 80000.00 lb
			<u>Total Volume: 60.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.90 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4308.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.34 ft			
Tool Length:	28.24 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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P.O. Sub	0.31			4286.41	
C.O. Sub	0.31			4286.72	
P.O. Sub	0.31			4287.03	
Recorder	1.80		Fluid	4288.83	
Conv. S.I. Tool	1.58			4290.41	
Sampler	0.91			4291.32	
HMV	2.10			4293.42	
Recorder	1.80		Inside	4295.22	
Telemetry Tool	7.01			4302.23	
Jars	1.85			4304.08	
Safety Joint	0.72			4304.80	
Packer	1.78			4306.58	21.90 Bottom Of Top Packer
Packer	1.42			4308.00	
Stubb	0.36			4308.36	
Recorder Carrier	2.20			4310.56	
Recorder	0.00	6999	Outside	4310.56	
Recorder	0.00	6663	Outside	4310.56	
Perforations	3.00			4313.56	
Blank Spacing	0.00			4313.56	
Bullnose	0.78			4314.34	6.34 Bottom Packers & Anchor

Total Tool Length: 28.24



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18871

DST#: 4

ATTN: Frank Greenbaum

Test Start: 2012.01.22 @ 09:20:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 9.00 in³
Resistivity: ohm.m
Salinity: 5000.00 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
40.00	Mudd 100%	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0

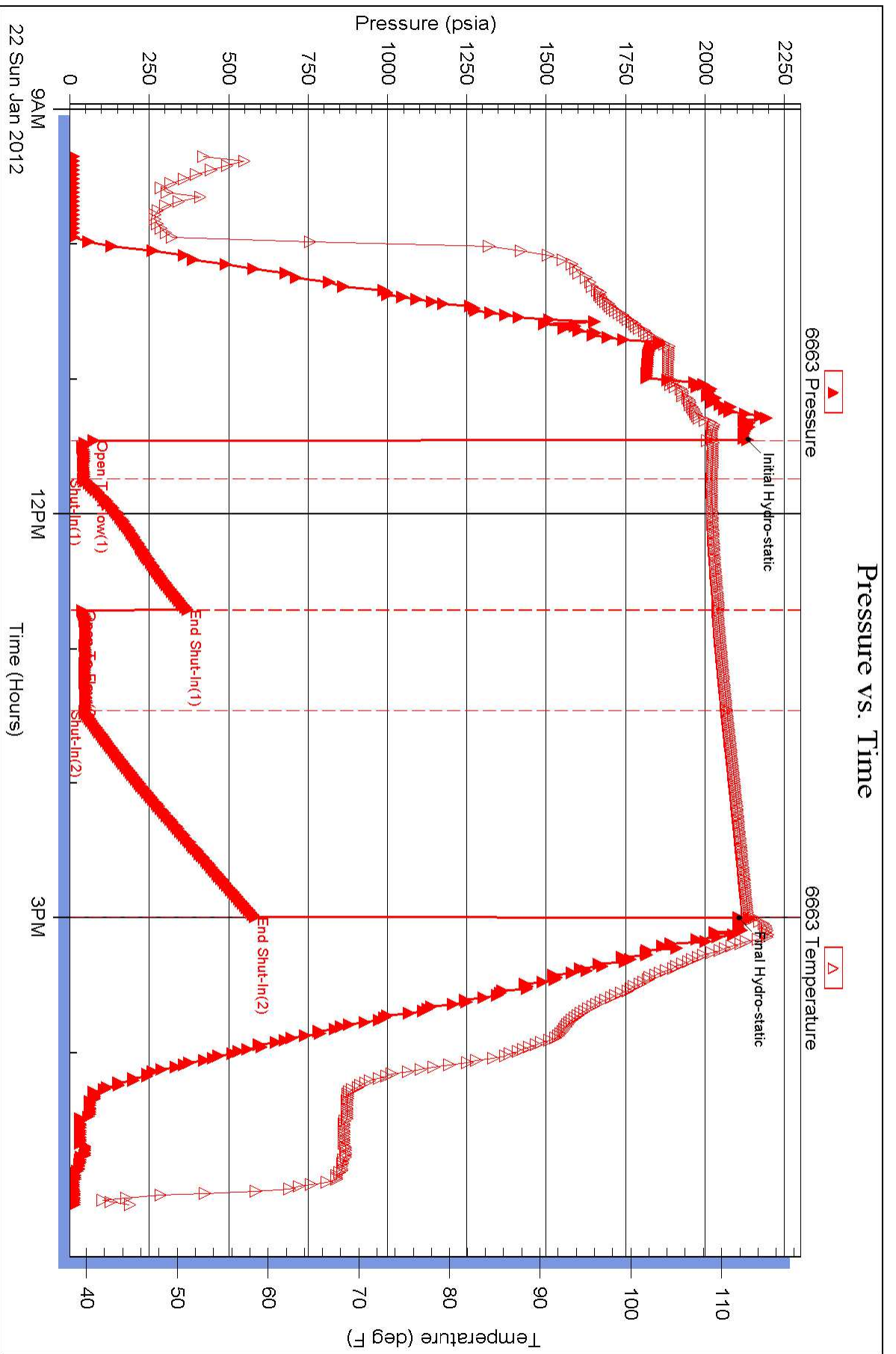
Num Gas Bombs: 0

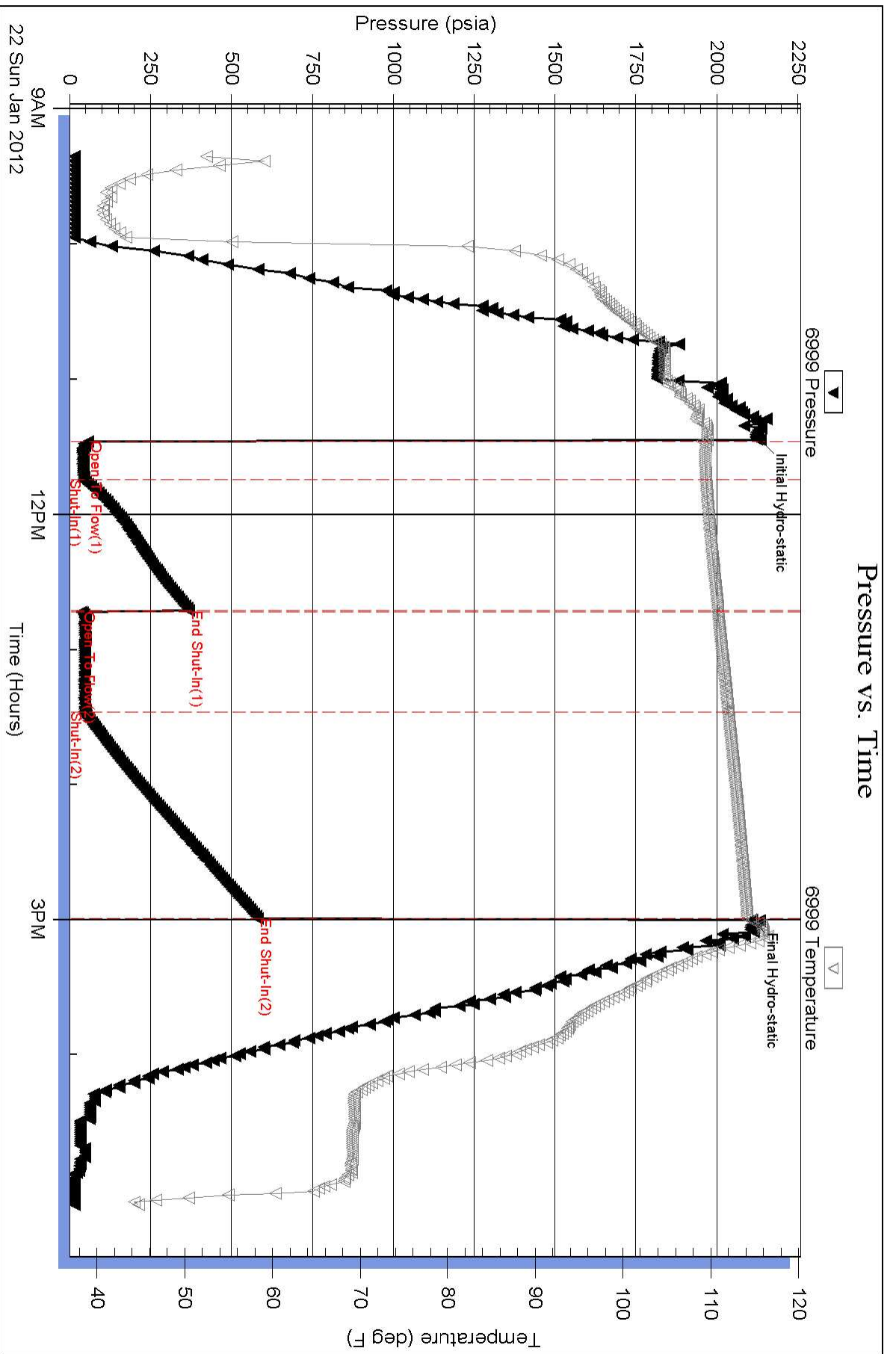
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company LLC**

9431 East Central Suite #100
Wichita, Kansas 67206+2563

ATTN: Renee

Thompson #1-30

30/30S/13W Barber Co.

Start Date: 2012.01.24 @ 09:30:00

End Date: 2012.01.24 @ 21:22:00

Job Ticket #: 18873 DST #: 6

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

Printed: 2012.01.24 @ 14:24:16



DRILL STEM TEST REPORT

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18873

DST#: 6

ATTN: Renee

Test Start: 2012.01.24 @ 09:30:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:58:00

Time Test Ended: 21:22:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3345-Great Bend-150

Interval: 4438.00 ft (KB) To 4519.00 ft (KB) (TVD)

Reference Elevations: 1929.00 ft (KB)

Total Depth: 4519.00 ft (KB) (TVD)

1918.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6999 Inside

Press @ RunDepth: 84.97 psia @ 4545.85 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.01.24

End Date:

2012.01.24

Last Calib.:

2012.01.24

Start Time: 09:30:00

End Time:

21:22:00

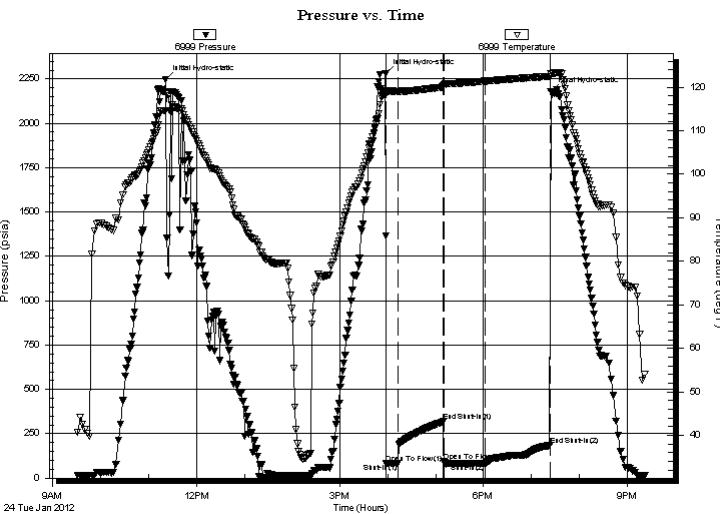
Time On Btm:

2012.01.24 @ 11:21:30

Time Off Btm:

2012.01.24 @ 19:24:30

TEST COMMENT: 1st Open 15 minutes Fair steady blow blew 3 inches in 15 minutes
1st Shut in 60 minutes No blow back
2nd Open 45 minutes Fair 2.5 inches then died off
2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2246.97	114.67	Initial Hydro-static
276	2281.64	118.12	Initial Hydro-static
277	83.45	118.96	Open To Flow (1)
292	81.39	119.02	Shut-In(1)
348	318.36	120.06	End Shut-In(1)
349	95.79	120.31	Open To Flow (2)
400	84.97	121.38	Shut-In(2)
482	183.91	122.50	End Shut-In(2)
483	2177.92	123.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mudd 100%	0.63

Gas Rates

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



DRILL STEM TEST REPORT

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18873

DST#: 6

ATTN: Renee

Test Start: 2012.01.24 @ 09:30:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:58:00

Time Test Ended: 21:22:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3345-Great Bend-150

Interval: 4438.00 ft (KB) To 4519.00 ft (KB) (TVD)

Reference Elevations: 1929.00 ft (KB)

Total Depth: 4519.00 ft (KB) (TVD)

1918.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6663 Outside

Press @ RunDepth: 186.54 psia @ 4546.85 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.01.24

End Date: 2012.01.24

Last Calib.: 2012.01.24

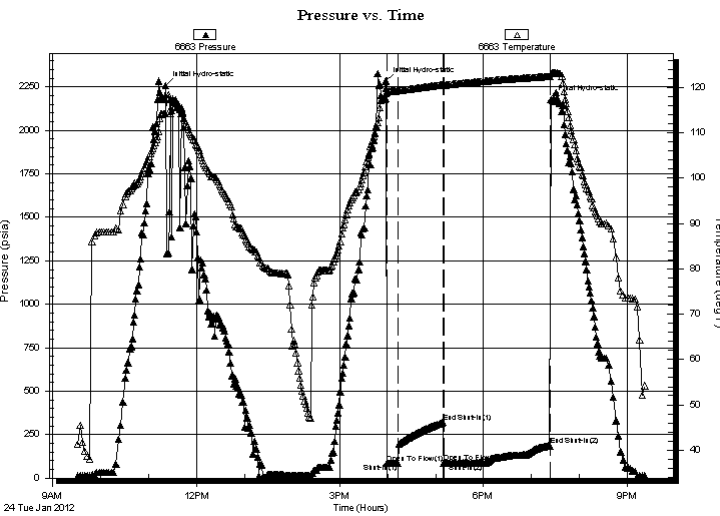
Start Time: 09:30:00

End Time: 21:22:00

Time On Btm: 2012.01.24 @ 11:21:30

Time Off Btm: 2012.01.24 @ 19:24:30

TEST COMMENT: 1st Open 15 minutes Fair steady blow blew 3 inches in 15 minutes
1st Shut in 60 minutes No blow back
2nd Open 45 minutes Fair 2.5 inches then died off
2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2256.57	114.26	Initial Hydro-static
276	2283.05	117.64	Initial Hydro-static
277	84.60	118.98	Open To Flow (1)
292	84.40	119.23	Shut-In(1)
348	320.99	120.57	End Shut-In(1)
349	88.90	120.49	Open To Flow (2)
399	86.86	121.33	Shut-In(2)
482	186.54	122.42	End Shut-In(2)
483	2176.33	123.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mudd 100%	0.63

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18873

DST#: 6

ATTN: Renee

Test Start: 2012.01.24 @ 09:30:00

Tool Information

Drill Pipe:	Length: 4447.00 ft	Diameter: 3.80 inches	Volume: 62.38 bbl	Tool Weight: 20000.00 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: 100000.0 lb
			Total Volume: 62.38 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	1000101. ft			
Tool Length:	102.85 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			4452.00	
Hydraulic Tool	5.00			4457.00	
Top Packer	5.00			4462.00	
Bottom Packer	5.00		Fluid	4467.00	
Anchor	2.00			4469.00	
Change Over Sub	0.75			4469.75	
Drill Pipe	64.35			4534.10	
Change Over Sub	0.75		Inside	4534.85	
Anchor	10.00			4544.85	
Recorder	1.00	6999	Inside	4545.85	
Recorder	1.00	6663	Outside	4546.85	
Bull Plug	3.00			4549.85	102.85
					Anchor Tool

Total Tool Length: 102.85



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18873

DST#: 6

ATTN: Renee

Test Start: 2012.01.24 @ 09:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 44.00 sec/qt

Water Loss: 8.80 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Mudd 100%	0.631

Total Length: 45.00 ft Total Volume: 0.631 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

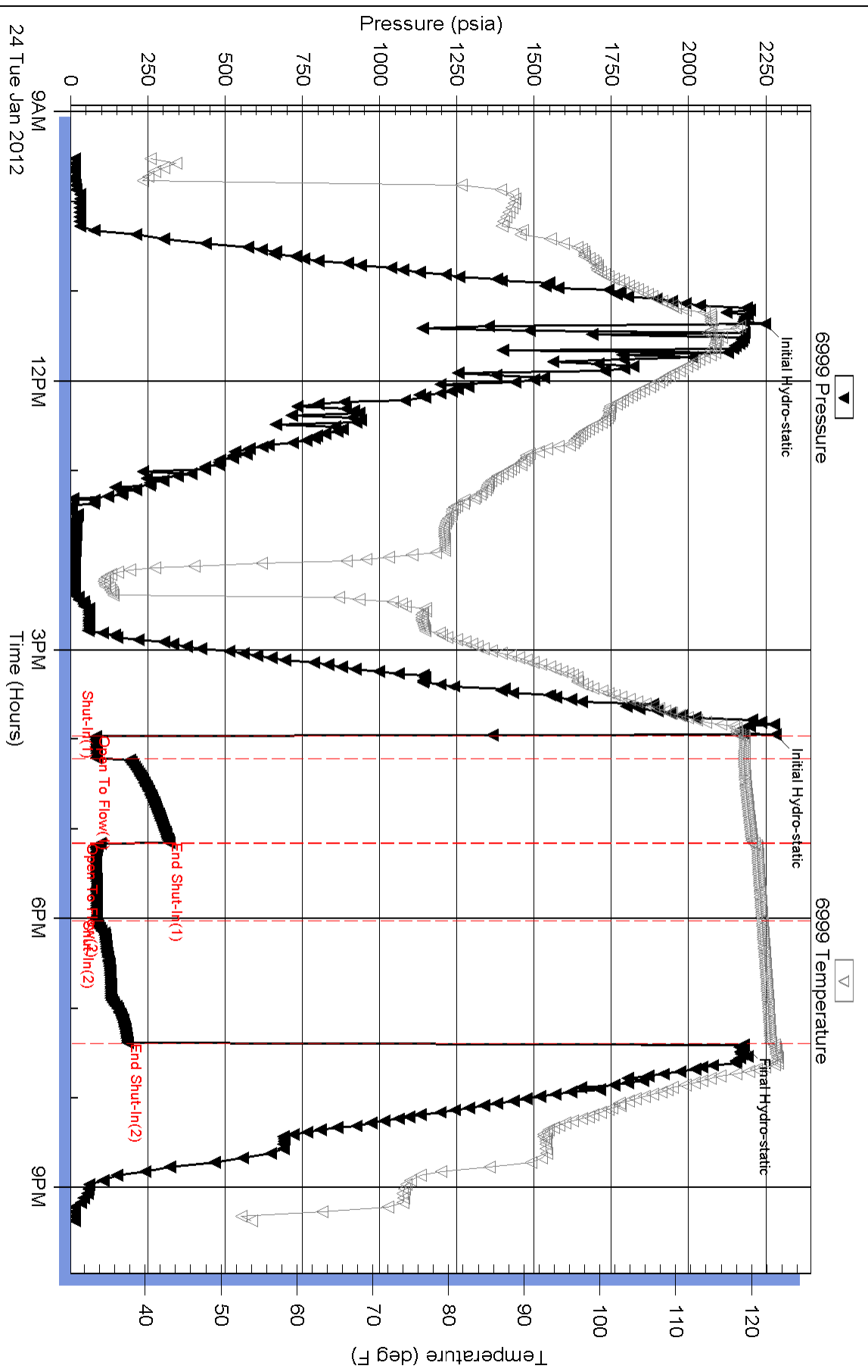
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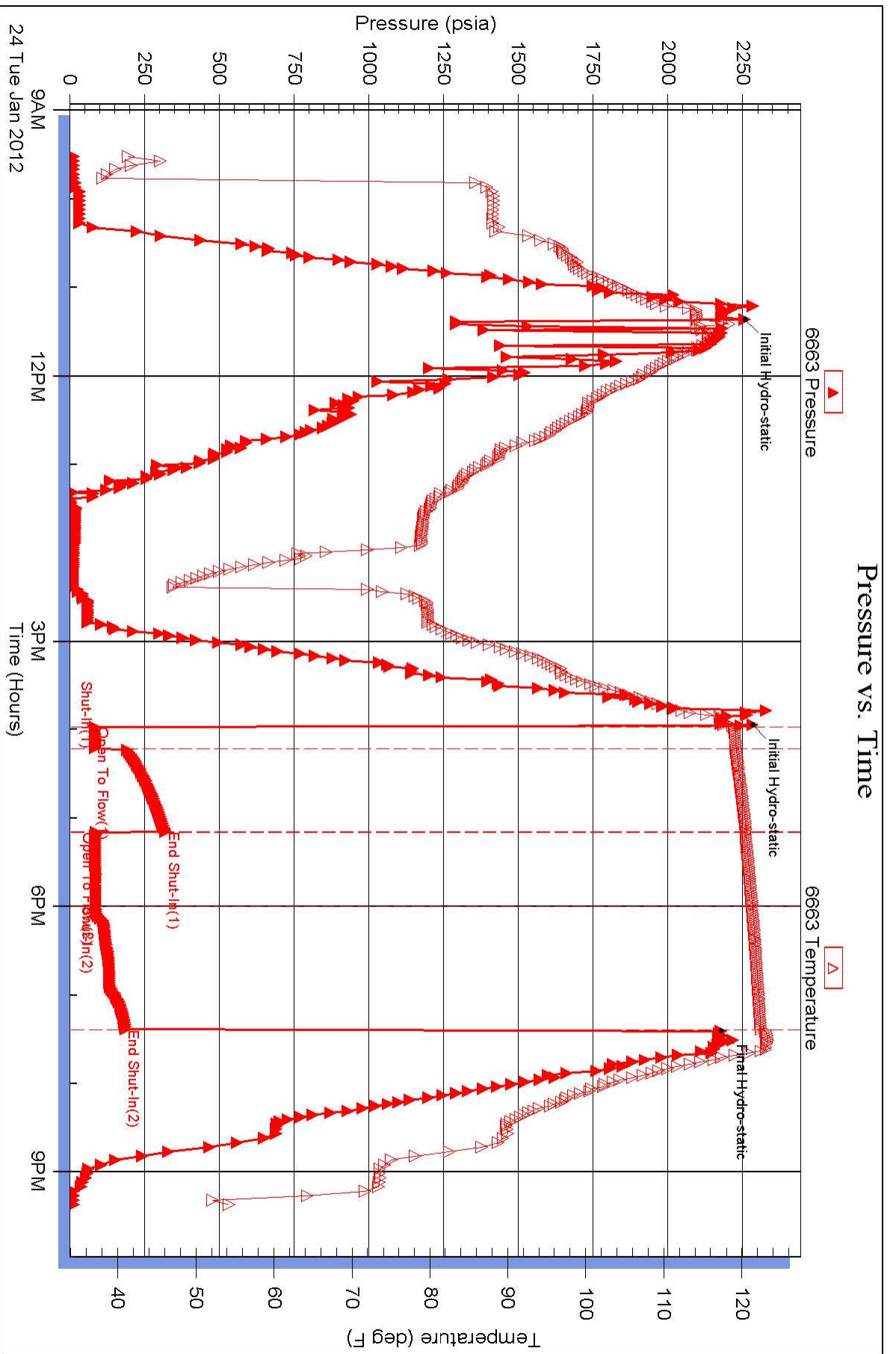
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company LLC**

9431 East Central Suite #100
Wichita, Kansas 67206+2563

ATTN: Renee

Thompson #1-30

30/30S/13W Barber Co.

Start Date: 2012.01.25 @ 08:40:00

End Date: 2012.01.25 @ 16:24:00

Job Ticket #: 18874 DST #: 7

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

Printed: 2012.01.29 @ 08:20:38



DRILL STEM TEST REPORT

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18874

DST#: 7

ATTN: Renee

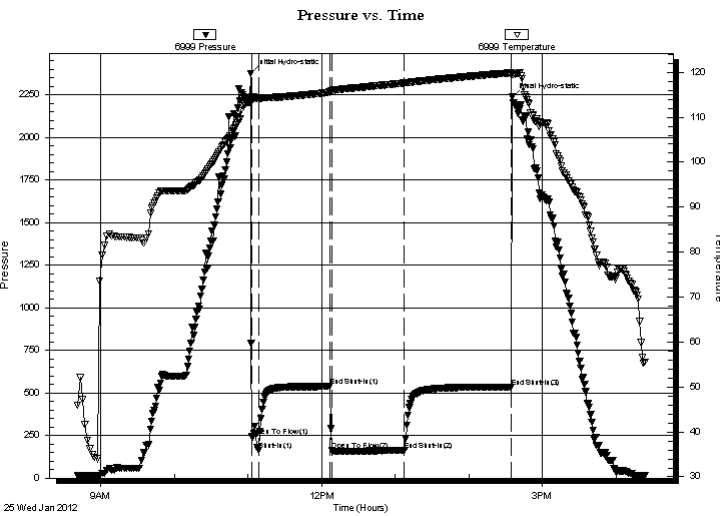
Test Start: 2012.01.25 @ 08:40:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 11:03:00 Tester: Dustin Ellis
 Time Test Ended: 16:24:00 Unit No: 3345-Greatbend-150
 Interval: **4529.00 ft (KB) To 4609.00 ft (KB) (TVD)** Reference Elevations: 1929.00 ft (KB)
 Total Depth: 4609.00 ft (KB) (TVD) 1918.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 6999 Inside
 Press @ Run Depth: 163.88 psia @ 4637.14 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.01.25 End Date: 2012.01.25 Last Calib.: 2012.01.25
 Start Time: 08:41:00 End Time: 16:24:00 Time On Btm: 2012.01.25 @ 11:02:00
 Time Off Btm: 2012.01.25 @ 14:35:30

TEST COMMENT: 1st Open 5 minutes Strong blow/ blew bottom of bucket in less than 1 minute.
 1st Shut in 60 minutes Yes blow back
 2nd Open 60 minutes Strong blow blew bottom of buckt instantly.
 2nd Shut in 90 minutes Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2378.12	113.39	Initial Hydro-static
1	246.53	114.15	Open To Flow (1)
7	163.88	114.25	Shut-In(1)
65	538.60	115.55	End Shut-In(1)
67	164.43	115.93	Open To Flow (2)
126	162.80	117.61	End Shut-In(2)
213	535.73	119.88	End Shut-In(3)
214	2237.35	119.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
265.00	Drilling Mud 100%	3.72
0.00	Gas to surface.	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.75	1.00	15.62
Last Gas Rate	0.75	1.10	17.18
Max. Gas Rate	0.75	1.10	17.18



DRILL STEM TEST REPORT

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18874

DST#: 7

ATTN: Renee

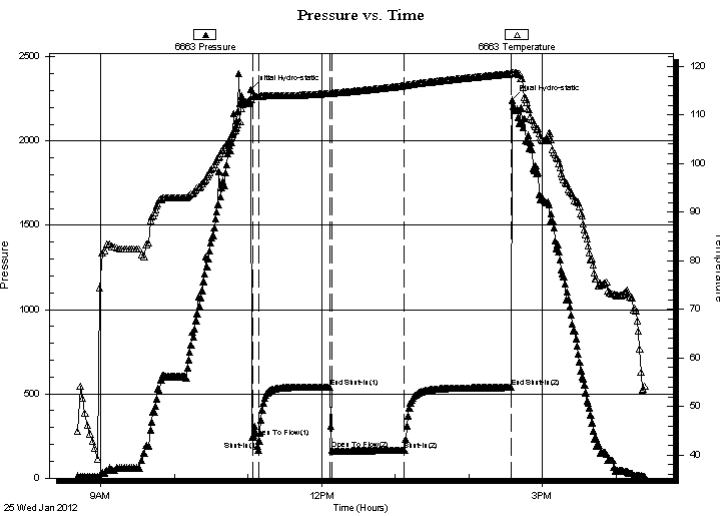
Test Start: 2012.01.25 @ 08:40:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 11:03:00 Tester: Dustin Ellis
 Time Test Ended: 16:24:00 Unit No: 3345-Greatbend-150
 Interval: **4529.00 ft (KB) To 4609.00 ft (KB) (TVD)** Reference Elevations: 1929.00 ft (KB)
 Total Depth: 4609.00 ft (KB) (TVD) 1918.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 6663 Outside
 Press @ RunDepth: 538.13 psia @ 4638.14 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.01.25 End Date: 2012.01.25 Last Calib.: 2012.01.25
 Start Time: 08:41:00 End Time: 16:23:30 Time On Btm: 2012.01.25 @ 11:02:30
 Time Off Btm: 2012.01.25 @ 14:35:30

TEST COMMENT: 1st Open 5 minutes Strong blow/ blew bottom of bucket in less than 1 minute.
 1st Shut in 60 minutes Yes blow back
 2nd Open 60 minutes Strong blow blew bottom of buckt instantly.
 2nd Shut in 90 minutes Yes blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2307.01	113.29	Initial Hydro-static
1	245.31	113.84	Open To Flow (1)
7	220.80	113.84	Shut-In(1)
64	541.04	114.48	End Shut-In(1)
66	169.17	114.53	Open To Flow (2)
125	165.76	116.03	Shut-In(2)
212	538.13	118.52	End Shut-In(2)
213	2244.20	118.79	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
265.00	Drilling Mud 100%	3.72
0.00	Gas to surface.	0.00

Gas Rates			
	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.75	1.00	15.62
Last Gas Rate	0.75	1.10	17.18
Max. Gas Rate	0.75	1.10	17.18



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18874

DST#: 7

ATTN: Renee

Test Start: 2012.01.25 @ 08:40:00

Tool Information

Drill Pipe:	Length: 4518.00 ft	Diameter: 3.80 inches	Volume: 63.38 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: 72000.00 lb
			<u>Total Volume: 63.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4529.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.14 ft			
Tool Length:	108.14 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			4506.00	
Hydraulic Tool	5.00			4511.00	
Jars	6.00			4517.00	
Safety Joint	2.00			4519.00	
Packer	5.00			4524.00	28.00 Bottom Of Top Packer
Packer	5.00			4529.00	
Anchor	1.00			4530.00	
Change Over Sub	0.75			4530.75	
Drill Pipe	62.64			4593.39	
Change Over Sub	0.75		Inside	4594.14	
Anchor	10.00			4604.14	
Recorder	1.00	6731	Inside	4605.14	
Recorder	1.00	6666	Outside	4606.14	
Bull Plug	3.00			4609.14	80.14 Bottom Packers & Anchor

Total Tool Length: 108.14



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18874

DST#: 7

ATTN: Renee

Test Start: 2012.01.25 @ 08:40:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 64.00 sec/qt
Water Loss: 8.79 in³
Resistivity: ohm.m
Salinity: 4000.00 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
265.00	Drilling Mud 100%	3.717
0.00	Gas to surface.	0.000

Total Length: 265.00 ft Total Volume: 3.717 bbl

Num Fluid Samples: 0

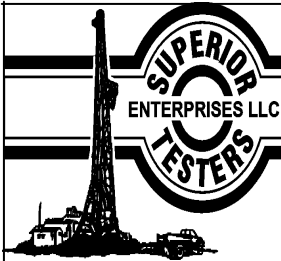
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

GAS RATES

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18874

DST#: 7

ATTN: Renee

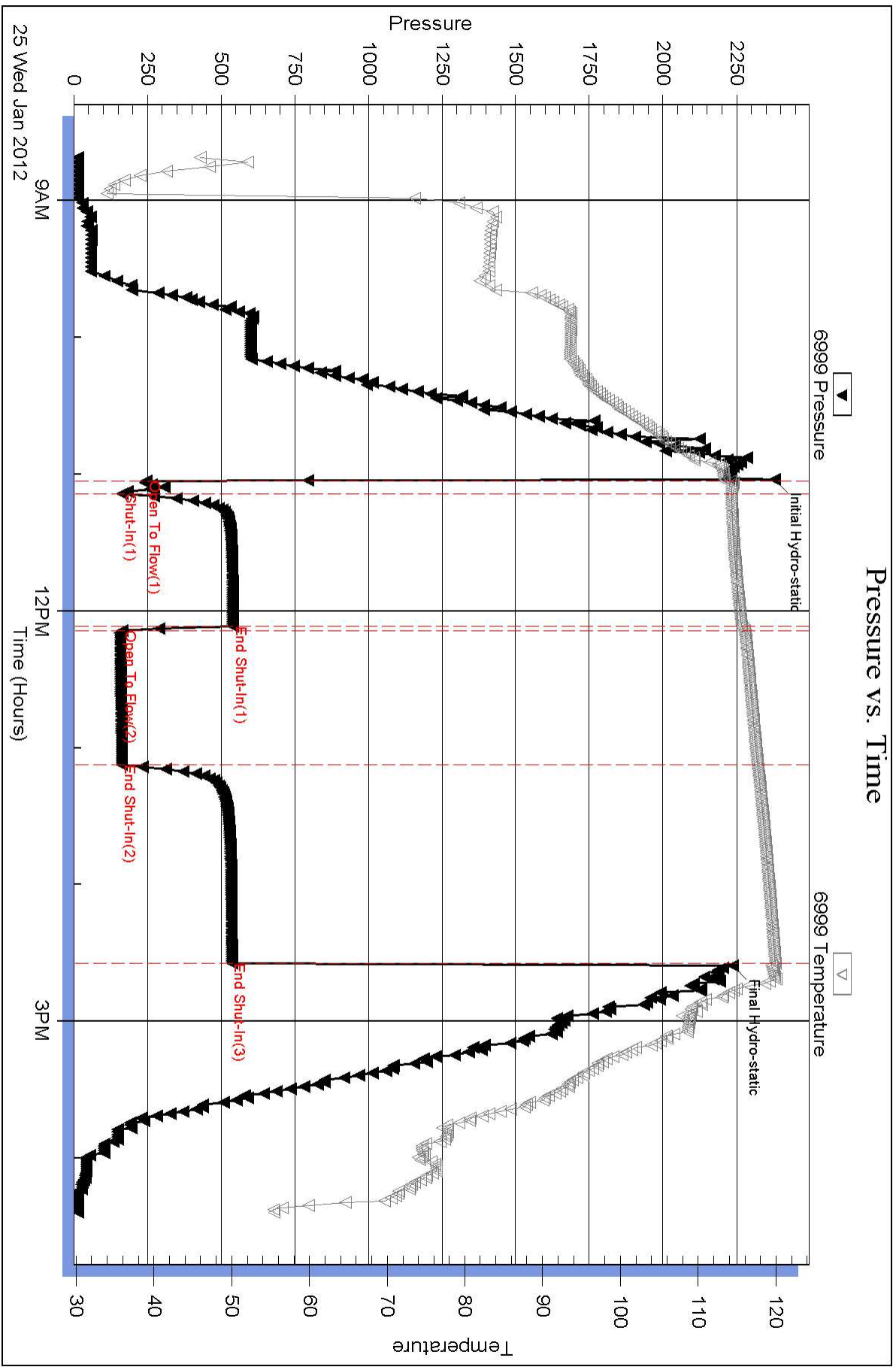
Test Start: 2012.01.25 @ 08:40:00

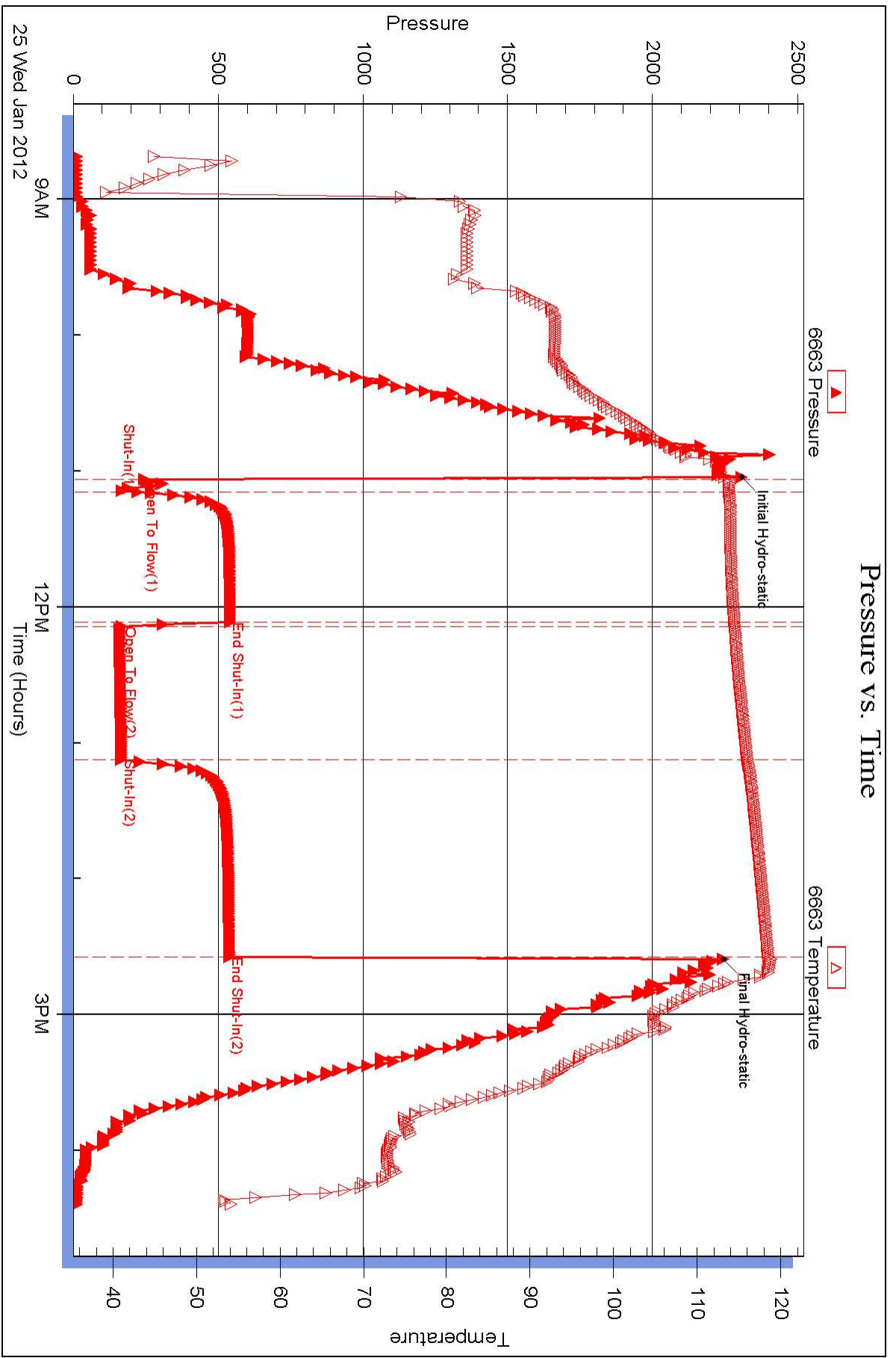
Gas Rates Information

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	0.75	1.00	15.62
2	20	0.75	1.00	15.62
2	30	0.75	1.10	17.18
2	40	0.75	1.10	17.18







DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company LLC**

9431 East Central Suite #100
Wichita, Kansas 67206+2563

ATTN: Renee

Thompson #1-30

30/30S/13W Barber Co.

Start Date: 2012.01.26 @ 02:02:00

End Date: 2012.01.26 @ 10:04:00

Job Ticket #: 18875 DST #: 8

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

Printed: 2012.01.29 @ 08:21:24



DRILL STEM TEST REPORT

F.G.Holl Company LLC
 9431 East Central Suite #100
 Wichita, Kansas 67206+2563
 ATTN: Renee

30/30S/13W Barber Co.
Thompson #1-30
 Job Ticket: 18875 **DST#: 8**
 Test Start: 2012.01.26 @ 02:02:00

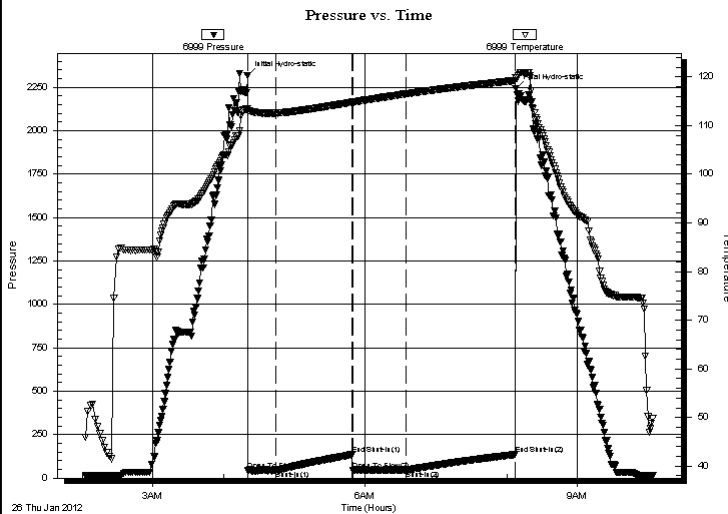
GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:20:30
 Time Test Ended: 10:04:00
Interval: 4610.00 ft (KB) To 4635.00 ft (KB) (TVD)
 Total Depth: 4635.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3345-Great/Bend-150
 Reference Elevations: 1929.00 ft (KB)
 1918.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6999 Outside

Press @ RunDepth: 45.43 psia @ 4612.56 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.01.26 End Date: 2012.01.26 Last Calib.: 2012.01.26
 Start Time: 02:03:00 End Time: 10:04:00 Time On Btm: 2012.01.26 @ 04:20:00
 Time Off Btm: 2012.01.26 @ 08:07:30

TEST COMMENT: 1st Open 30 minutes Fair building blow /blew 8 inches in 30 minutes.
 1st Shutin 60 minutes Yes blow back
 2nd Open 45 minutes Fair building blow built to the bottom of the bucket in 42 minutes
 2nd Shutin 90 minutes Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2319.51	113.54	Initial Hydro-static
1	43.17	113.09	Open To Flow (1)
25	43.57	112.58	Shut-In(1)
89	134.87	114.79	End Shut-In(1)
90	43.54	114.82	Open To Flow (2)
135	45.43	116.51	Shut-In(2)
227	135.80	119.26	End Shut-In(2)
228	2240.69	119.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Drilling mud 100%	0.42

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18875

DST#: 8

ATTN: Renee

Test Start: 2012.01.26 @ 02:02:00

Tool Information

Drill Pipe:	Length: 4595.00 ft	Diameter: 3.80 inches	Volume: 64.46 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: 73000.00 lb
			<u>Total Volume: 64.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4610.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 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
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Shut-In Tool	5.00			4587.00	
Hydraulic Tool	5.00			4592.00	
Jars	6.00			4598.00	
Safety Joint	2.00			4600.00	
Packer	5.00			4605.00	28.00 Bottom Of Top Packer
Packer	5.00			4610.00	
Anchor	20.00			4630.00	
Recorder	1.00	6731	Inside	4631.00	
Recorder	1.00	6666	Outside	4632.00	
Bull Plug	3.00			4635.00	25.00 Bottom Packers & Anchor
Total Tool Length:	53.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18875

DST#: 8

ATTN: Renee

Test Start: 2012.01.26 @ 02:02:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 64.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Drilling mud 100%	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

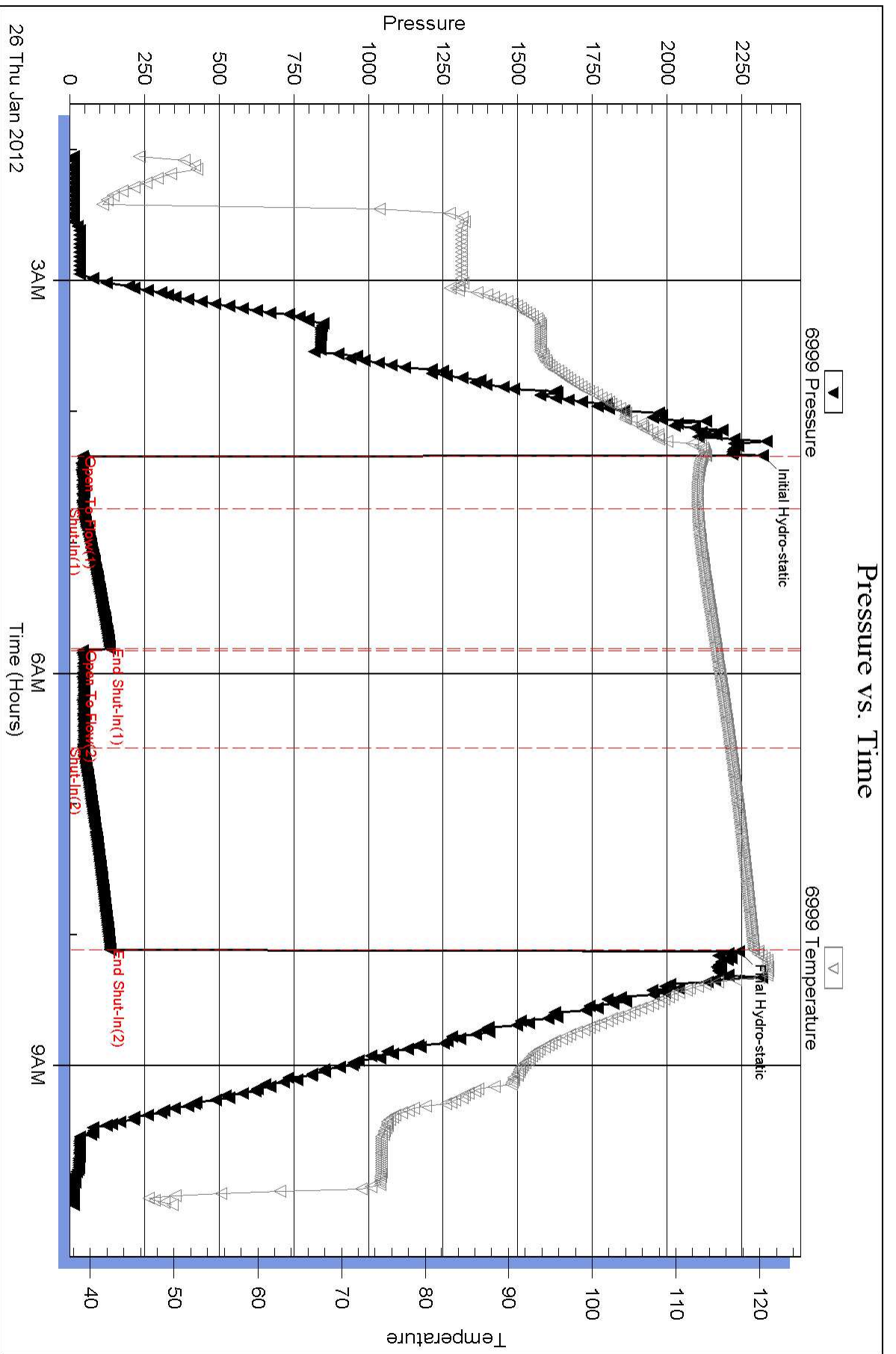
Num Gas Bombs: 0

Serial #:

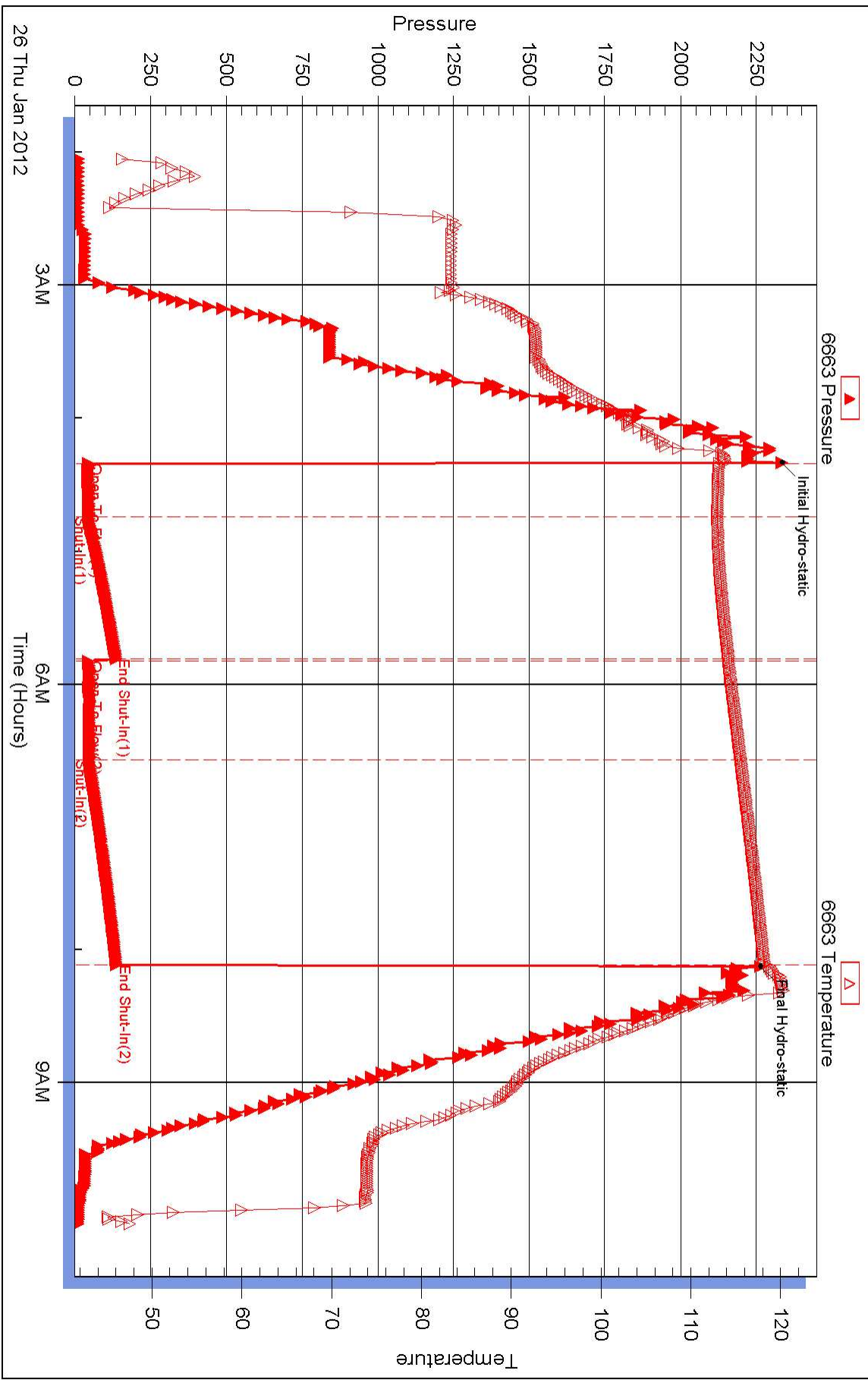
Laboratory Name:

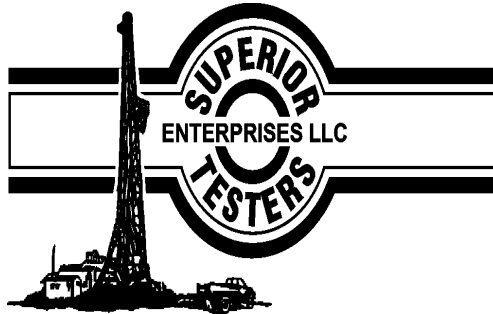
Laboratory Location:

Recovery Comments:



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company LLC**

9431 East Central Suite #100
Wichita, Kansas 67206+2563

ATTN: Renee

Thompson #1-30

30/30S/13W Barber Co.

Start Date: 2012.01.27 @ 01:49:00

End Date: 2012.01.27 @ 10:35:30

Job Ticket #: 18826 DST #: 9

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

Printed: 2012.01.27 @ 21:18:29



DRILL STEM TEST REPORT

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18826

DST#: 9

ATTN: Renee

Test Start: 2012.01.27 @ 01:49:00

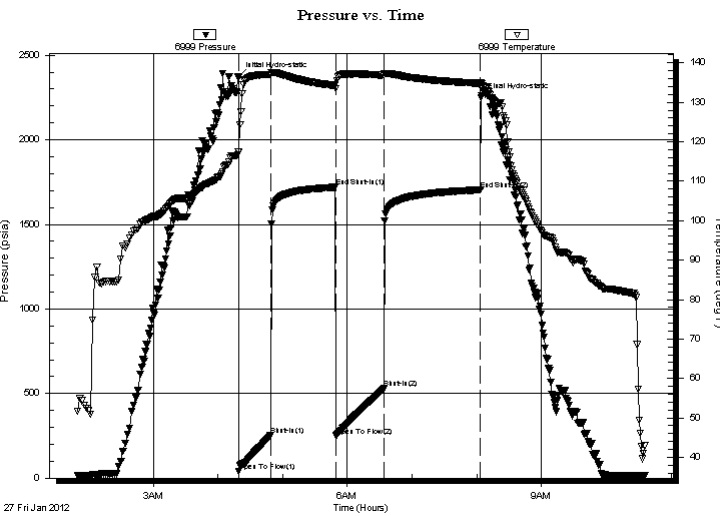
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 04:19:30
 Tester: Dustin Ellis
 Time Test Ended: 10:35:30
 Unit No: 3345-Great Bend-150
 Interval: **4791.00 ft (KB) To 4800.00 ft (KB) (TVD)**
 Reference Elevations: 1929.00 ft (KB)
 Total Depth: 4800.00 ft (KB) (TVD)
 1918.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 11.00 ft

Serial #: 6999

Press @ RunDepth: 530.76 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.01.27 End Date: 2012.01.27 Last Calib.: 2012.01.27
 Start Time: 01:49:00 End Time: 10:35:30 Time On Btm: 2012.01.27 @ 04:19:00
 Time Off Btm: 2012.01.27 @ 08:04:00

TEST COMMENT: 1st Open 30 minutes Fair building blow built to bottom bucket in 12 minutes
 1st Shut in 60 minutes No blow back
 2nd Open 45 minutes Fair building blow /blew bottom of bucket 7 minutes
 2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2371.09	117.36	Initial Hydro-static
1	39.45	117.47	Open To Flow (1)
30	252.61	136.96	Shut-In(1)
90	1719.60	134.18	End Shut-In(1)
91	250.52	133.52	Open To Flow (2)
135	530.76	136.83	Shut-In(2)
225	1704.20	134.78	End Shut-In(2)
225	2248.76	134.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
900.00	Salt w ater 90%Water 10%Mudd	12.62
90.00	Muddy w ater 90%Mud 10% w ater	1.26
0.00	Chlorides 19000	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18826

DST#: 9

ATTN: Renee

Test Start: 2012.01.27 @ 01:49:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:19:30

Time Test Ended: 10:35:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3345-Great Bend-150

Interval: **4791.00 ft (KB) To 4800.00 ft (KB) (TVD)**

Reference Elevations: 1929.00 ft (KB)

Total Depth: 4800.00 ft (KB) (TVD)

1918.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6663

Press @ RunDepth: 1705.49 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.01.27

End Date:

2012.01.28

Last Calib.:

2012.01.27

Start Time: 01:49:00

End Time:

03:50:24

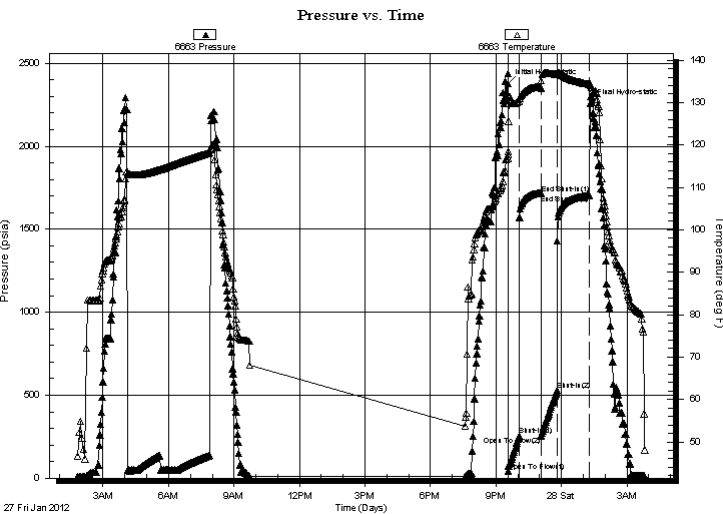
Time On Btm:

2012.01.27 @ 21:33:54

Time Off Btm:

2012.01.28 @ 01:18:54

TEST COMMENT: 1st Open 30 minutes Fair building blow built to bottom bucket in 12 minutes
1st Shut in 60 minutes No blow back
2nd Open 45 minutes Fair building blow /blew bottom of bucket 7 minutes
2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2375.99	117.79	Initial Hydro-static
1	44.13	118.48	Open To Flow (1)
30	255.66	130.42	Shut-In(1)
90	1716.57	133.66	End Shut-In(1)
91	253.25	133.41	Open To Flow (2)
135	528.31	136.64	Shut-In(2)
224	1705.49	134.35	End Shut-In(2)
225	2255.71	134.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
900.00	Salt w ater 90%Water 10%Mudd	12.62
90.00	Muddy w ater 90%Mud 10% w ater	1.26
0.00	Chlorides 19000	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18826

DST#: 9

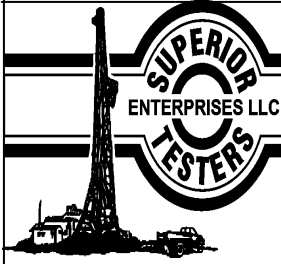
ATTN: Renee

Test Start: 2012.01.27 @ 01:49:00

Tool Information

Drill Pipe:	Length: 4776.00 ft	Diameter: 3.80 inches	Volume: 66.99 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: 70000.00 lb
			<u>Total Volume: 66.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.90 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4791.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.34 ft			
Tool Length:	28.24 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
P.O. Sub	0.31			4769.41	
C.O. Sub	0.31			4769.72	
P.O. Sub	0.31			4770.03	
Recorder	1.80		Fluid	4771.83	
Conv. S.I. Tool	1.58			4773.41	
Sampler	0.91			4774.32	
HMV	2.10			4776.42	
Recorder	1.80		Inside	4778.22	
Telemetry Tool	7.01			4785.23	
Jars	1.85			4787.08	
Safety Joint	0.72			4787.80	
Packer	1.78			4789.58	21.90 Bottom Of Top Packer
Packer	1.42			4791.00	
Stubb	0.36			4791.36	
Recorder Carrier	2.20			4793.56	
Recorder	0.00	6999	Outside	4793.56	
Recorder	0.00	6663	Outside	4793.56	
Perforations	3.00			4796.56	
Blank Spacing	0.00			4796.56	
Bullnose	0.78			4797.34	6.34 Bottom Packers & Anchor
Total Tool Length:		28.24			



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company LLC

30/30S/13W Barber Co.

9431 East Central Suite #100
Wichita, Kansas 67206+2563

Thompson #1-30

Job Ticket: 18826

DST#: 9

ATTN: Renee

Test Start: 2012.01.27 @ 01:49:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 8.80 in³

Resistivity: 0.40 ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
900.00	Salt w ater 90%Water 10%Mudd	12.625
90.00	Muddy w ater 90%Mud 10% w ater	1.262
0.00	Chlorides 19000	0.000

Total Length: 990.00 ft Total Volume: 13.887 bbl

Num Fluid Samples: 0

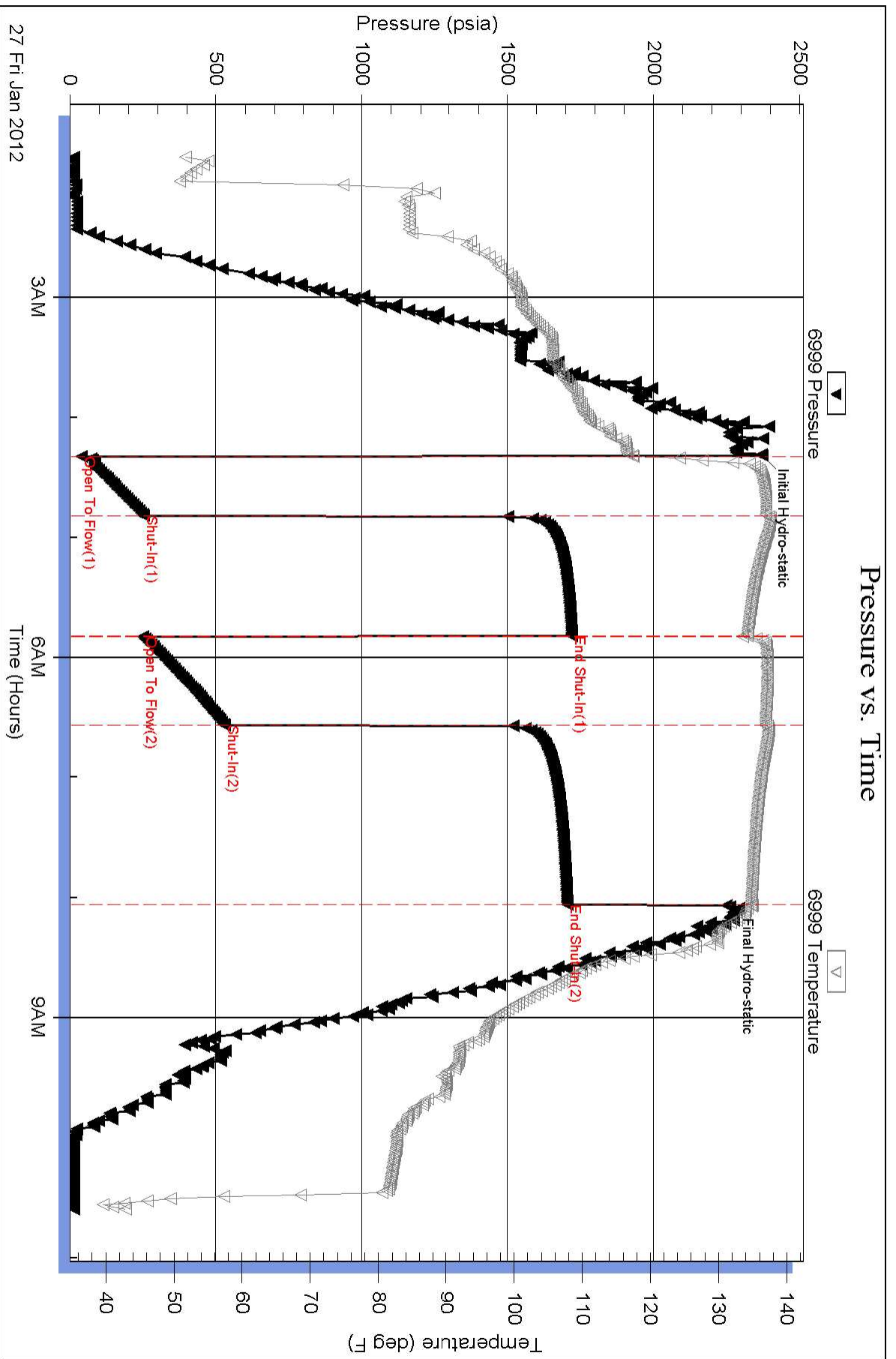
Num Gas Bombs: 0

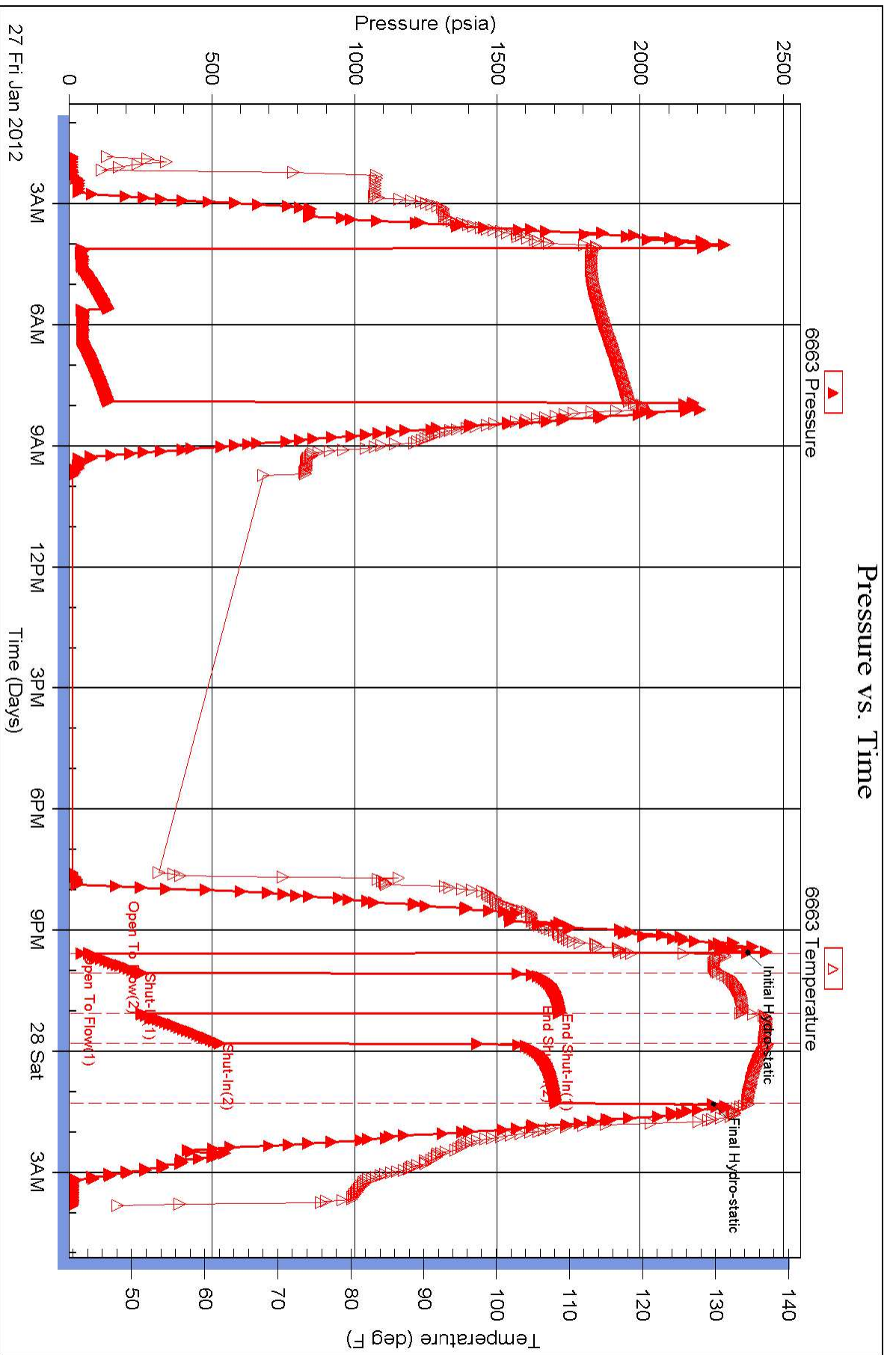
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







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Phone 620-672-1201

FIELD SERVICE TICKET
1718 05668 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>01-29-12</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>F. G. HOLL</u>		LEASE <u>THOMPSON</u> <u>1-30</u> WELL NO.							
ADDRESS		COUNTY <u>BARBOR</u> STATE <u>KS</u>							
CITY STATE		SERVICE CREW <u>Sullivan, Nelson, Bowler</u>							
AUTHORIZED BY		JOB TYPE: <u>CPW 4 1/2" Laying</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>33708-20970</u>	<u>85</u>	<u>min</u>				<u>1-29-12</u>		<u>PM</u>	<u>11:00</u>
<u>19831-19822</u>	<u>65</u>	<u>min</u>				ARRIVED AT JOB		<u>AM</u>	<u>12:30</u>
<u>37900</u>						START OPERATION		<u>AM</u>	<u>9:00</u>
						FINISH OPERATION		<u>AM</u>	<u>11:30</u>
						RELEASED		<u>AM</u>	<u>12:45</u>
						MILES FROM STATION TO WELL			<u>20</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: Rob Gore
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	4H2 cont	SK	120		
CP 105	AN 2 cont	SK	95		
CP 103	60/40 Pore cont	SK	100		
CC 102	CellHole	lb	54		
CC 105	De-former	lb	51		
CC 111	Salt	lb	967		
CC 115	GAS-Block	lb	203		
CC 129	FLA 322	lb	203		
CC 201	Gilsimit	lb	2650		
CF 400	TWO Stage	eg	1		
CF 600	Latch Down Plug	eg	1		
CF 1250	Auto Fill shoe	eg	1		
CF 1650	Turbolizer	eg	11		
CF 1900	H/2 Basket	eg	2		
CF 2002	Cement Scrubbers	eg	30		
CC 154	Super Flush	gal	1000		

SUB TO:
DL

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	TOTAL
MATERIALS	%TAX ON \$	
<u>Thank you</u>		

SERVICE REPRESENTATIVE <u>Robert J. Baker</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Rob Gore</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
FIELD SERVICE ORDER NO.	



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FIELD SERVICE TICKET

1718 ~~0500~~ A

Cont

DATE _____ TICKET NO. _____

DATE OF JOB: 1-24-2012		DISTRICT: Pratt		NEW WELL <input checked="" type="checkbox"/>		OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/>		INJ <input type="checkbox"/>		WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER: F.G. HOLL				LEASE: Thompson D				1-30 WELL NO.							
ADDRESS:				COUNTY: Barber				STATE: KS							
CITY:				STATE:				SERVICE CREW:							
AUTHORIZED BY:				JOB TYPE: CNW 4 1/2 L5											
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME					
						ARRIVED AT JOB									
						START OPERATION									
						FINISH OPERATION									
						RELEASED									
						MILES FROM STATION TO WELL									

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

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SIGNED: Rob Savage
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E 100	Pick up mileage	Mi	20		
E 101	Heavy Equipment mileage	Mi	40		
E 113	Bulk Delivery	TM	289		
CE 205	Depth Charge 4001 - 5000	4hr	1		
CE 240	Mix Charge	515	315		
CE 501	Swivel Rental	eq	1		
CE 504	Plug container	51B	1		
CE 203	Depth Charge 2001 - 3000	4hr	1		
S 003	Supervisor	eq	1		

SUB TOTAL

CHEMICAL / ACID DATA:			

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

THANK YOU

SERVICE REPRESENTATIVE: Robert J. Hill THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Rob Savage
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer: <i>F. G. HOLL</i>	Lease No.	Date: <i>01-29-12</i>
Lease: <i>THOMPSON</i>	Well # <i>1-30</i>	
Field Order #: <i>5669</i>	Station: <i>Pratt KS</i>	Casing: <i>4 1/2</i>
Type Job: <i>CN W 4 1/2 long string</i>	Depth: <i>7935</i>	County: <i>BARBER</i>
		State: <i>KS</i>
	Formation	Legal Description: <i>30-30-13</i>

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

Customer Representative	Station Manager: <i>DAVE Scott</i>	Treater: <i>Robert Sullivan</i>
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Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
8:55	300				OPEN D.V. TOOL
9:00					HOOK Pig circ 2 HR.
11:00	130		12	3	2 nd Surfer Start
			5		1 st Surfer
			6	4	MIX 25 sk Scavenger cont
			23	5	MIX 95 sk AA 2 cont 15. perf
					cont mix sk shut down. wash, liner, pump
					Release Plug
				5	2 nd Surfer
	350	35	31		Lift Psi
	500			3.5	Slow Rate
11:25	1950		38	35	plug down AND close D.V. Tool
					check close. good.
			7		plug 11.4 w/ 20 sk 100 cont
			6		plug 11.4 w/ 20 sk 100 cont
					500 Complete
					Thank you

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energy services, L.P.

TREATMENT REPORT

PAGE 1 of 2

Customer F. G. HOLL	Lease No.	Date 01-29-12
Lease T HOMPSON	Well # 1-30	
Field Order # 5665	Station PRATT KS	Casing 4 1/2
Type Job cnw 4 1/2 longstrip	Depth 4935	County BARBER
	Formation	State KS
		Legal Description 30-30-13

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
4 1/2				Pre Pad	Max		5 Min.	
Depth 4935	Depth	From	To	Pad	Min		10 Min.	
Volume 78	Volume	From	To	Frac	Avg		15 Min.	
Max Press 200	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection P.C.	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth 4897	Packer Depth	From	To					

Customer Representative	Station Manager DAVE SCOTT	Treater Robert Williams
-------------------------	--------------------------------------	-----------------------------------

Service Units	37900	32208	20920	19831	19862				
Driver Names	Sullivan	Melton	Bowen						

Time	Casing Pressure	Tubing Pressure	Bbbls. Pumped	Rate	Service Log
12:30	pm				on for Satty mody
					Run 127 str 4 1/2 10.5 csp. (Two stage)
					cont 3 5 7 8 9 64 66 68 19 70 21
					Bucket 574 @ CS 12.0 Tool str 65 2409
					cont Bottom stage w/ 25 sk 60/40 per Scavenger
					120 sk AA-2 cont @ 15.000 TOP STAGE
					25 sk 60/40 per Scavenger 95 sk AA-2 cont 15.000
					Fill csg 1/2 way in hole
5:45					CASING ON BOTTOM
6:00					Hook up cing 2 HR.
8:00	200		12	3	St Super Herb
			5		At spacer
			6	4	mix 25 sk Scavenger cont
			31	5	mix 120 sk AA-2 cont @ 15.000
					cont mix-lr shot downward. wash line, pump
				6	Release Plug
			40		St Disp w/ 4 20 40 BBL 7 78 total
					St mud disp 38 BBL
	400		57		lift psi
	700			4.5	slow rate
8:40	11050		35-78		Plug down total 75 BBL
8:45					DROP D.V. opening tool



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FIELD SERVICE TICKET
1718 05656 A

DATE _____ TICKET NO. _____

DATE OF JOB: 1-12-2012	DISTRICT: Pratt	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER: F.G. HOLL CO. LLC		LEASE: Thompson		1-30 WELL NO.:					
ADDRESS:		COUNTY: Barber		STATE: KS					
CITY:		STATE:		SERVICE CREW: melson Phye Sullivan					
AUTHORIZED BY:		JOB TYPE: CNW 13 3/8 Conductor							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
20420 33708	30						1-12-12	AM	9
14960 14914	30						1-12-12	AM	11
37900							1-12-12	AM	2:30
							1-12-12	AM	3:00
							1-12-12	AM	3:30
MILES FROM STATION TO WELL							20		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

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SIGNED: *Scott Edwards*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 106	Aserv Lite	sk	200		
CP 100	Common	sk	150		
CC 102	CELLO Flake	lb	88		
CC 109	Calcium Chloride	lb	804		
E 100	Pickup mileage	mi	20		
E 101	Heavy Mileage	mi	40		
E 113	Bulk Delivery	tm	315		
CE 200	Depth charge	4hrs	1		
CE 240	Mixing charge	sl	350		
S 003	Supervisor	eq	1		

SUB TOTAL
ALS

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$
<i>Shelby</i>	
TOTAL	

SERVICE REPRESENTATIVE: <i>Melton</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>Scott Edwards</i>
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)	

FIELD SERVICE ORDER NO.

Customer F.G. HOLL	Lease No. 1-30	Date 1-12-2012	
Lease THOMPSON 1-30	Well # 1-30		
Field Order # 5656	Station	Casing 1 3/8	Depth 364
Type Job CNW 13 3/8 CONDUCTOR		Formation	Legal Description 30-30-13
		County BARBER	State 155

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
1 3/8								
Depth 364	Depth	From	To	Pre Pad	Max		5 Min.	
Volume 54	Volume	From	To	Pad	Min		10 Min.	
Max Press 500 PSI	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection su edge	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 344	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative Bob Long	Station Manager DAVID SCOTT	Treater ROBERT SULLIVAN
--	---------------------------------------	-----------------------------------

Service Units 59703	14960	37900							
Driver Names MELSON	PHYE	SULLIVAN							

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
11:4m					ON LOL Safety meeting
					Run 9 Joints to 364
2:15					Casing on Bottom check for air
					start JOB
2:30	300		3	3	Start spacer
			63	4.5	start lem 700 A ser line at 13#
			32		start comm 150 ft 15.6 ft
			5	45	start DSP 5
3:00	300		54		Plug down
					circ. 12 BBL out to pit
					JOB complete
					Thank you



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FIELD SERVICE TICKET
1718 04973 A

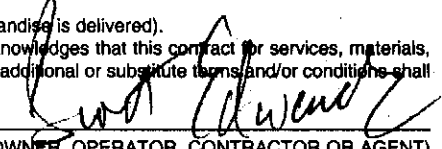
30-305-13W

DATE _____ TICKET NO. _____

DATE OF JOB	1-13-12	DISTRICT	Pratt, Kansas	NEW WELL	<input checked="" type="checkbox"/>	OLD WELL	<input type="checkbox"/>	PROD	<input type="checkbox"/>	INJ	<input type="checkbox"/>	WDW	<input type="checkbox"/>	CUSTOMER ORDER NO.:	
CUSTOMER	F.G. Holl Company, LLC			LEASE	Thompson			WELL NO.	1-30						
ADDRESS				COUNTY	Barber			STATE	Kansas						
CITY				STATE				SERVICE CREW	C. Messick; M. Mattal; M. McGraw; J. Bowers						
AUTHORIZED BY				JOB TYPE:	C.N.W. - Surface										
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	1-13-12	DATE	1-13-12	TIME	8:00				
37,216	1	19,826-19,860	1			ARRIVED AT JOB				11:30					
						START OPERATION				3:30					
19,889-19,905	1	19,831-19,862	1			FINISH OPERATION				4:30					
						RELEASED	1-13-12			5:00					
						MILES FROM STATION TO WELL				20					

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

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SIGNED: 
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

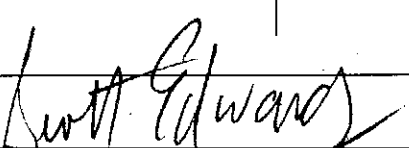
ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP101	A-Con Blend Cement	sh	280		
CP100	Common Cement	sh	175		
CC102	Cellflote	Lb	114		
CC109	Calcium Chloride	Lb	1122		
CF105	Top Rubber Plug, 8 5/8"	ea	1		
CFT53	Baffle Plate, 8 5/8"	ea	1		
CF1753	Centralizer, 8 5/8"	ea	3		
CF1903	Basket, 8 5/8"	ea	2		
E100	Pickup Mileage	mi	20		
E101	Heavy Equipment Mileage	mi	60		
E113	Built Delivery	tm	429		
CE201	Cement Pump: 50 Feet To 1,000 Feet	hrs	4		
CE240	Blending and Mixing Service	sh	455		
CE504	Plug Container	Job	1		
S003	Service Supervisor	hrs	8		

SUB TC

DLS

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE	Terrence R. Messick	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:	
FIELD SERVICE ORDER NO.		(WELL OWNER OPERATOR CONTRACTOR OR AGENT)	

Customer E.G. Holl Company, LLC.	Lease No.	Date 1-13-12
Lease Thompson	Well # 1-30	
Field Order # 4983	Station Pratt, Kansas	Casing" 8 7/8 24lb
Type Job C.N.W. - Surface	Depth 942 Feet	County Barber
	Formation	State Kansas
		Legal Description 30-305-13W

PIPE DATA		PERFORATING DATA		CEMENT USED		TREATMENT RESUME		
Casing Size 8 7/8 24 lb/ft.	Tubing Size 2 3/8 11.5 lb/ft.	Shots/Ft 280	sacks 1	Blend with 38 Calcium Chloride	RATE 11.89 Gal./st.	PRESS 2.12	ISIP 5 Min.	cell plate
Depth 942 Feet	Depth	From	To	12.6 Lb./Gal.	Max			
Volume 54.9 Bbl.	Volume	From	To	175 sacks common with 280	Min			
Max Press 500 P.S.I.	Max Press	From	To	15.6 Lb./Gal.	Avg	2.23 Gal./st.	1.20	15 Min.
Well Connection Plug Container	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth 402 Feet	Packer Depth	From	To	Flush 57.4 Bbl. Fresh Water	Gas Volume			Total Load

Customer Representative Scott	Station Manager David Scott	Treater Clarence R. Messick
----------------------------------	--------------------------------	--------------------------------

Service Units	37,216	19,889	19,905	19,826	19,860	19,831	19,862			
Driver Names	Messick	Mattal	Mc Graw	Bowers						

Time A.M.	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
9:30					Cementer and Float Equipment on location.
11:30					Trucks on location and hold safety meeting.
1:30					Dutco Drilling start to run shoe joint with Baffle Plate screwed into collar and a total of 22 Joints new 24 lb./ft. 8 7/8" casing. A Basket was installed above collars # 1 and # 14. A Centralizer was installed on collars # 1, 3, and # 5.
3:20					Casing in well. Circulate for 10 minutes.
3:40	350			5	start Fresh Water Pre-Flush.
	350		10	5	start mixing 280 sacks A con Blend cement.
	350		116	5	start mixing 175 sacks common cement.
	0		153		stop pumping. Shut in well. Release Top Rubber Plug. Open Well.
4:07	100			5	Start Fresh Water Displacement.
4:20	500		57.4		Plug down. Shut in well.
					Circulated 10 sacks cement to the pit.
					Wash up pump truck.
5:00					Job Complete Thank You Clarence, Milte, Milte, Justin