



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1125877
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

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

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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



1125877

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	MENZER 1-22
Doc ID	1125877

All Electric Logs Run

DIL
CNL/CDL
BHCS
Microresistivity
CPI
Sector Bond log
Frac finder log

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	MENZER 1-22
Doc ID	1125877

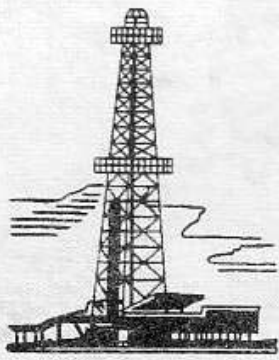
Tops

Name	Top	Datum
Anhydrite	1033	+967
Herrington	1888	+112
Krider	1905	+95
Winfield	1937	+63
Towanda	2012	-12
Fort Riley	2052	-52
B/Florence	2147	-147
Council Grove	2210	-210
Crouse	2242	-242
Neva	2382	-382
Red Eagle	2449	-449
Wabaunsee	2610	-610
Root Shale	2657	-657
Stotler	2717	-717
Tarkio	2778	-778
Howard	2914	-914
Topeka	2984	-984
Heebner	3218	-1218
Toronto	3233	-1233
Brown Lime	3284	-1284
LKC	3305	-1305
BKC	3515	-1515
Conglomerate	3530	-1530
Arbuckle	3554	-1554

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	MENZER 1-22
Doc ID	1125877

Tops

Name	Top	Datum
RTD	3725	-1725



WELLSITE GEOLOGIST'S REPORT

J. R. Husted
Consulting Geologist



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

Well Name: Menzer N0 1-22
Location: SEC 22-T17S-R15W
License Number: 15-009-25,800-0000
Spud Date: JAN. 7 2013

Region: Barton Co,KS
Drilling Completed: JAN. 18 2013

Surface Coordinates: 2000' FSL, 1375' FEL
Bottom Hole Coordinates: VERTICAL

Ground Elevation (ft): 1992' K.B. Elevation (ft): 2000'
Logged Interval (ft): 1800' To: 3750' Total Depth (ft): 3750'
Formation: Lansing/KC, ARBUCKLE
Type of Drilling Fluid: STARCH/CHEMICAL

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

OPERATOR

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

GEOLOGIST

Name: RENE HUSTEAD
Company: HUSTEAD EXPLORATION
Address: 600 N. WINWOOD ST
GARDNER, KANSAS 66030

ROCK TYPES

	Anhy
	Bent
	Brec
	Cht
	Clyst
	Coal
	Congl
	Dol

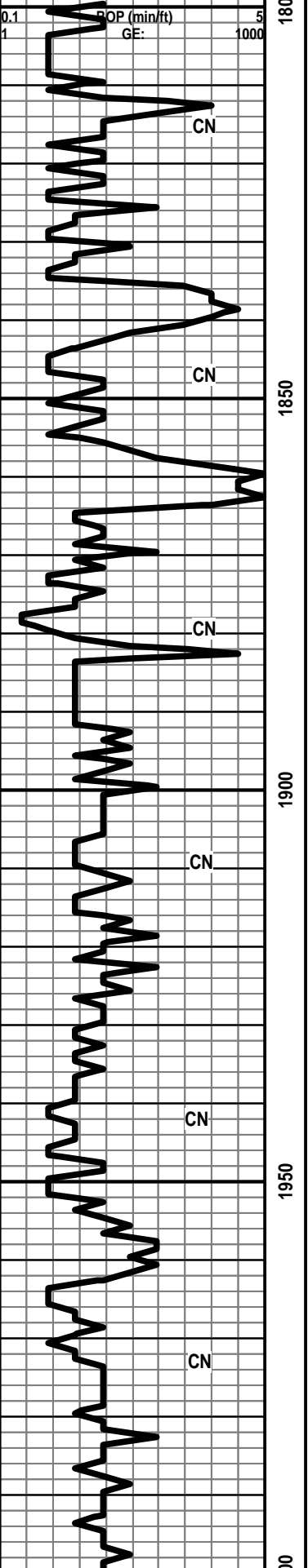
	Gyp
	Igne
	Lmst
	Meta
	Mrlst
	Salt
	Shale
	Shcol

	Shgy
	Sltst
	Ss
	Till
	Carb sh
	Dol
	Dtd
	Gry sh

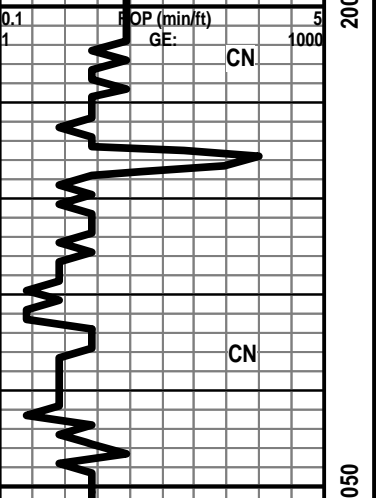
	Sandylms
	Shale
	Sltstn
	Shlyslts
	Sltysh
	Lms

MUD DATA @
1415'
WT. 8.9
VIS 28

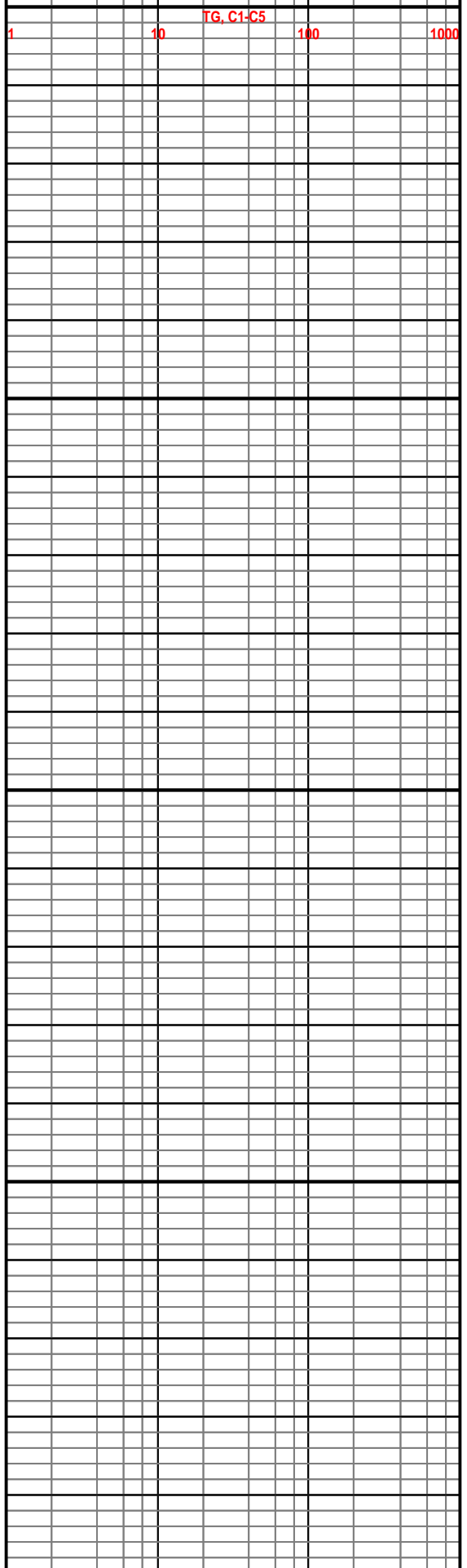
0.1 1 BOP (min/ft) 5 1000
GE:



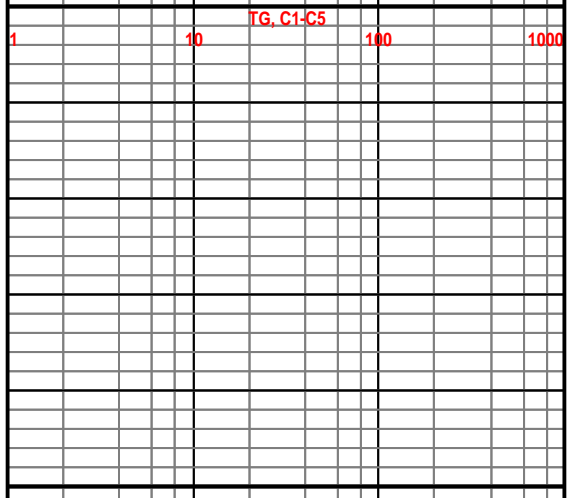
0.1 1 BOP (min/ft) 5 1000
GE:

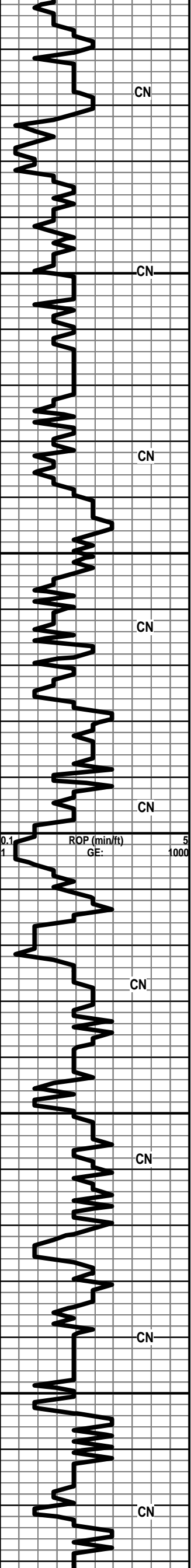


1 10 TG, C1-C5 100 1000



1 10 TG, C1-C5 100 1000





2100

2150

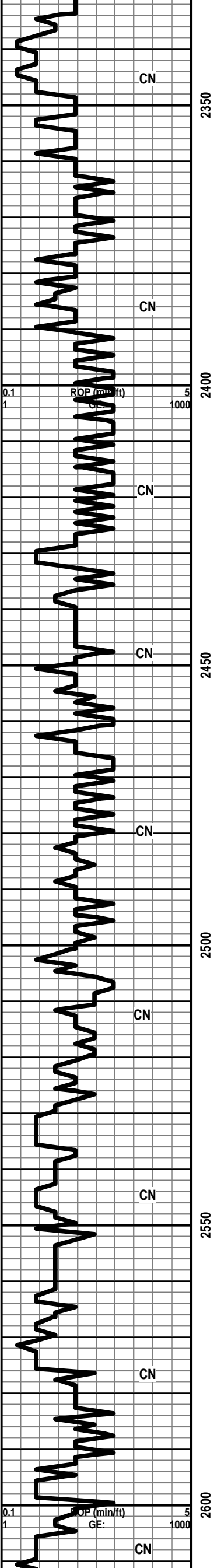
2200

2250

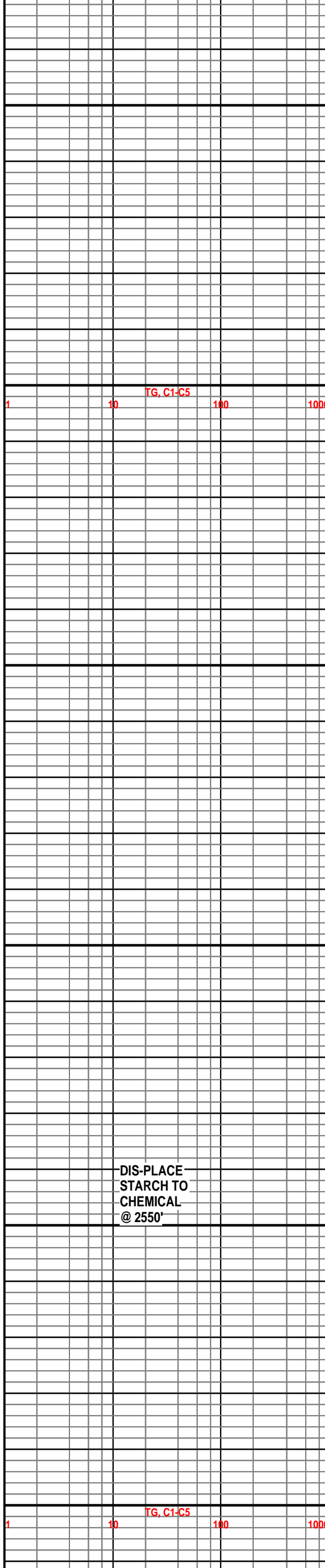
2300

MUD DATA @2095'
 WT. 10.1
 VIS 34
 FIL 8.4

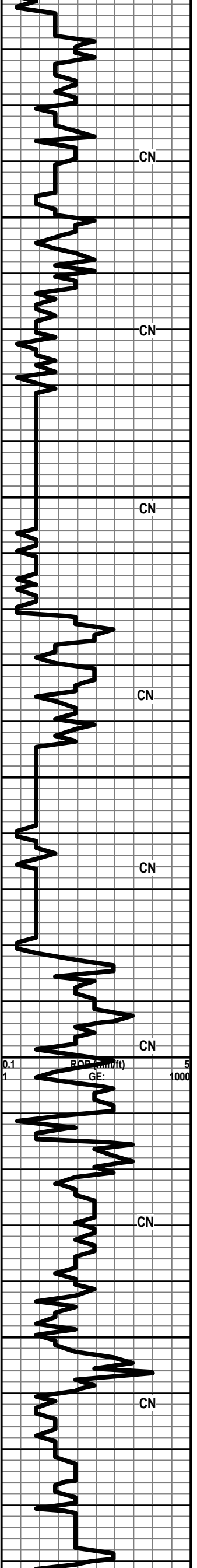
1 10 100 1000
 TG, C1-C5



LS-GRY/TN-F-GRN-BRIT-FOSS-SHLY-MSTLY
 DNS W/ TR PP POR
 SH-GRY-SFT-SILTY
 LS-OFF WHT/BLK
 SPECS-M-XLN-BRIT-FOSS-PR INTER-XLN PO
 LS-TN-F-XLN-TR FOSS-HD-DNS
 LS-LT BRN-F-XLN-SM OOL-HD-DNS
 LS-LT GRN-F-XLN-BRIT-SHLY-DNS
 SH-GRY-BLKY-FOSS



DIS-PLACE
 STARCH TO
 CHEMICAL
 @ 2550'



2650

2700

2750

2800

2850

LS-GRY-F-XLN-SUCRO-HD-PR INTER-GRN
POR

LS A.A.

LS-TN-M-GRN-FOSS-HD-MSTLY DNS -TR PP
POR

SH-GRY-SFT-SILTY-TR HEM-MICA

SH-GRY-V-SFT-SILTY

LS-DK GRY-V-F-XLN-GLAU-HD-DNS

SHALES-GRY-BLKY-V-SFT

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

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

SH-DK GRY-SPLNTY

SH-RED-V-SFT-GUMMY/TR SPLNTY

SH-GRY-SFT-V-SILTY-PYR XLS

**STOTLER 2722' (-722')
LOG 2718'**

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

LS-TN-F-XLN-SUCRO-BRIT TO HD-MSTLY
DNS-TR INTER-XLN POR N/S

SH-GRY-V-SFT-SILTY-HEM

SS-FRSTY WHT-M-GRN-RND TO SUB
RND-FRI-PR SRTEG-CALC CMT-TR
INTER-GRN POR (1 PC IN SAMPLE MSTLY
SHALES-GRY-SILTY

SS AND SHALES A.A.

**TARKIO 2782' (-782')
LOG 2778'**

LS-TN-F-XLN-CHRTY-HD-DNS

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

SH-DK GRY-SPLNTY

LS-TN-F-GRN-BRIT-FOSS-TR SH IMBD-NO VIS
POR-N/S

LS-GRY-F-GRN-FOSS-OOL-HD-DNS

SH-DK GRY-BLKY

LS-GRY/LT BRN-F-XLN-BRIT-FOSS-SHLY-NO
VIS POR-N/S SH-GRY-BLKY-FOSS

LS-GRY/OFF WHT-F-GRN-BRIT-FOSS-OOL-TR
SH-LT GRY IMBD-TR INTER-GRN/PP POR-N/S

LS-LT BRN-F-XLN-CHRTY-HD-DNS

SH-DK GRY-SPLNTY

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

POOR SAMPLE

LS-OFF
WHT/TN-F-GRN-HD-FOSS-OOL-PYR-DNS

MUD DATA @ 2651
WT. 8.7
VIS 44
FIL 6.4

HW 10 UNIT GAS
INCRS

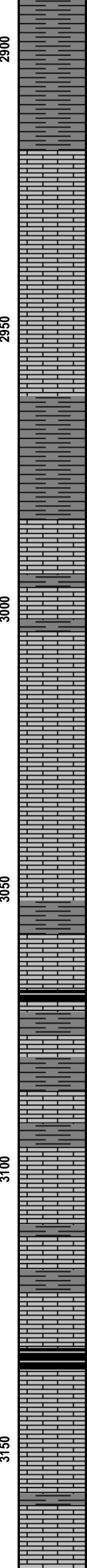
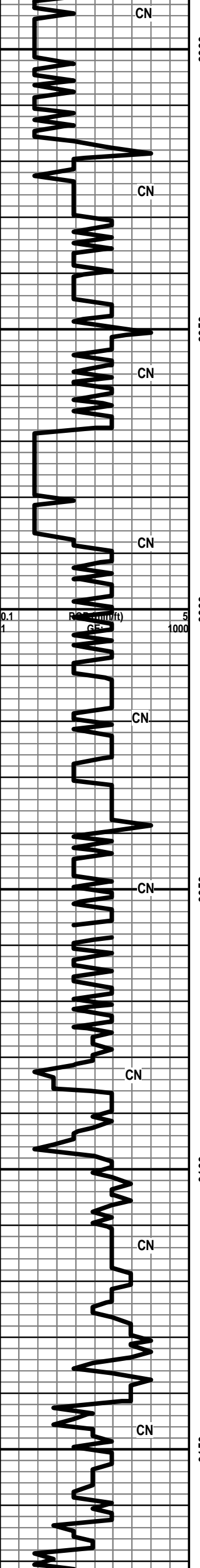
HW 12 UNIT GAS
INCRS

WT. 8.9
VIS 50

TG. C1-C5

1 10 100 1000

WT. 9.1
VIS 49



SH-LT GRY-V-SFT-SILTY

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

SLTSS A.A.

HOWARD 2917' (-917')
LOG 2914'

LS-GRY-F-XLN-HD-DNS

POOR SAMPLES

LS-LT BRN-F-XLN-BLOCKY-HD-DNS
 SH-GRY-BLKY-FOSS-SHELL

LS-TN/GRY-M-GRN-BRIT-CHLKY-FOSS-NO VIS
 POR-N/S

SEVERY 2968' (-968')
LOG 2662'

SH-GRY-BLKY-SILTY

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

TOPEKA 2984' (-986')

LS-TN-F-XLN-BRIT-TR FOSS-TR PP POR-NO
 VIS SHOW

LS-OFF WHT/GRY-F-XLN-FOSS-SHLY-NO VIS
 FLOR-NO VIS SHOW

LS-GRY-V-F-XLN-HD-DNS W/ GLAU

LS A.A. PYR XLS IN TRAY

LS-GRY-F-XLN-HD-DNS

LS-TN-F-XLN-BRIT-FOSS-SHLY-NO VIS
 FLOR-NO VIS SHOW

LS-TN/GRY-F-XLN-BRIT-FOSS-SHLY-NO VIS
 FLOR-NO VIS SHOW

LS-TN/GRY-F-XLN-BRIT-SHLY-FOSS-NO VIS
 FLOR-NO VIS SHOW

SH-GRY-GRN-SPLNTY

SH-GRY-BLKY-SILTY

LS-OFF WHT-F-XLN-CHLKY-FOSS-SHLY-PYR
 XLS IMBD-NO VIS FLOR-NO VIS SHOW

LS-TN-F-XLN-BRIT-FOSS-TR SH-DNS

LS-OFF
 WHT/TN-F-XLN-BRIT-FOSS-SHLY-DNS-NO VIS
 FLOR-NO VIS SHOW

SH-BLK-CARB

LS-TN/GRY-F-XLN-BRITTO HD-LG GRY
 OOL-NO VIS FLOR-NO VIS SHOW

LS-OFF
 WHT/TN-F-XLN-BRIT-FUS-OOL-DNS-NO VIS
 FLOR-NO VIS SHOW

LS-TN-F-XLN-BRIT-CHLKY-FOSS-PP-PP-PP-PP

KB=2000

WT. 9.2
 VIS 46

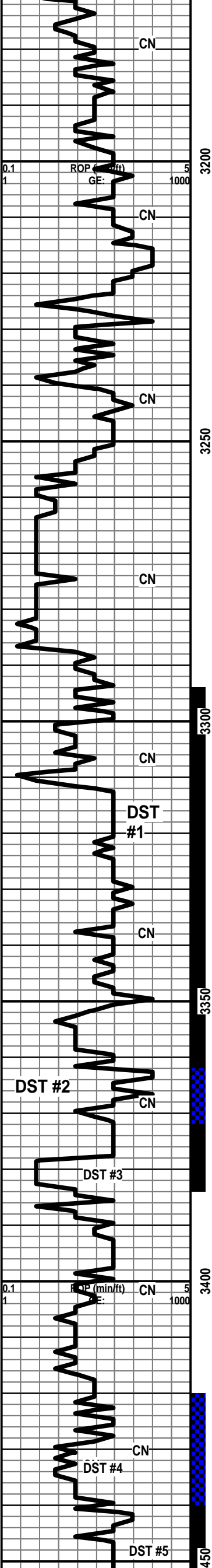
TG. C1-C5

1 10 100 1000

WT. 9.2
 VIS 55

WT. 9.3
 VIS 53

WT. 9.3
 VIS 50



LS-TN-F-XLN-BRIT-CHLKY-FOSS-PP ANL
SM VUG POR-TR LT BRN STN-NO VIS
FLOR-PR STRM CUT-NO ODOR

LS-TN-F-XLN-CHLKY IP-OOL-FR SM
OOL-MOLDIC POR-LT BRN STN-NO VIS
FLOR-PR FLSH CUT-NO ODOR

WT. 9.3
VIS 40

LS-TN-F-XLN-FOSS FRAGS-PR EDGE PP POR
IP TO NO VIS POR-LT BRN STN-NO VIS
FLOR-PR FLSH CUT-NO ODOR

TG. C1-C5
1 10 100 1000

HEEBNER 3224' (-1224')

SH-BLK-CARB

HW 15 UNIT GAS
INCRS

**TORONTO 3240' (1240')
LOG 3243'**

MUD DATA @3230'
WT. 9.3
VIS 46
FIL 6.8
CHLORIDES-6700

LS-OFF WHT-F-XLN-BRIT-CHLKY-TR FOSS-N
VIS POR-DULL WHT MIN FLOR-NO VIS SHOW

DOUGLAS SH 3248' (-1248')

SHALES-RED/GRY-SFT-BLKY

SHALES-LT GRY-SILTY-BLKY

**BROWN LS 3288' (-1288')
LOG- 3283'**

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

DST #1
3294-3361
REC -13 FT MUD
IBLW-WK BLW 1/2
INCH
FBLW-WK BLW 1/2
INCH
15/30/15/30
SIP-1027.64-1003.4

LANSING/KC 3302' (-1302')

LS-TN-F-XLN-BRIT-FOSS-OOL-TR SH GRY
IMBD-PR TO FR OOL-MOLDIC/VUG POR-LT
BRN STN IP-NO VIS FLOR-FNT FLSH CUT-NO
ODOR

HW 10 UNIT GAS
INCREASE

IFP-56.4-68.7
FFP-61.3-71.7
HP-1695.8-1617

LS-TN-F-XLN-HD-DNS W/ TR LT BRN STN IP
TO NO VIS STN-NO VIS FLOR-FNT FLSH
CUT-NO ODOR

MUD DATA @
3371'
WT. 9.35
VIS 53
FIL 8.4
CHLORIDES-8200
(INCRS DUE TO
TEST)

LS A.A.

LS-TN-F-XLN-OOL-PR TO FR INTER-PRT
POR-LT BRN STN-YEL/GLD FLOR-FR FLSH
CUT-FNT ODOR

HW 8 UNIT GAS
INCRS.

DST #2
3362-3371
REC-2 FT MUD
IBLW-WK BLW 1/2
INCH

LS-DK BRN/LT BRN-F-XLN-OOL-PR TO
FR-INTER-PRT/PP/SM VUG POR-LT BRN
STN-PR FSLH CUT-STRNG ODOR-SSFO

HW 15 UNIT GAS
INCREASE

FBLW-WK
BLW-1/2 INCH
15/60/30/60
SIP-29-29.6
IFP-28-29
FFP-28.6-30
HP-1704-1611

LS-TN-F-XLN-OOL-FR OOL-MOLDIC POR-LT
BRN STN-YEL/GLD FLOR IP TO LT BLUE
FLOR-GD STRM CUT-FO-GAS BUB-STRNG
ODOR

GAS DETECTOR
NOT WORKING

DST #3
3372-3383
REC-12 FT MUDDY
H2O
IBLW-WK BLW 1
INCH

LS-LT BRN-F-XLN-TR FOSS-DULL MIN
FLOR-NO VIS POR-NO VIS SHOW

TG. C1-C5
1 10 100 1000
FBLW-FR BLDING
BLW 4 INCHES
15/60/30/60
SIP-970.9-953.5
IFP-37.23-59.29
FFP-44.08-70.9
HP-1715.4-1661.4

LS-OFF WHT/GRY-F-XLN-BRIT-SLI
CHLKY-DNS TR SH -LT BRN IMBD IP-NO VIS
FLOR-NO VIS SHOW

LS A.A.

LS-TN-F-XLN-SLI CHLKY-BRIT-DNS-TR FRAC
POR-NO VIS FLOR-NO VIS CUT-STRNG ODOR

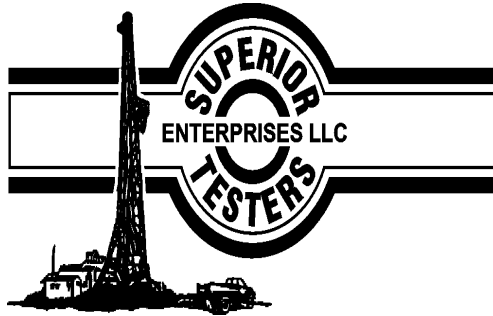
HW 42 UNIT GAS
INCREASE

DST #4
3420-3443'
REC 2 FT MUD
IBLW-FR SURF
BLW STEADY
FBLW-DEAD NO
BLW

LS-OFFWHT-M-XLN-V-OOL-FR INTER-PRT
POR-LT BRN STN-NO VIS FLOR-STRM
CUT-GD ODOR-FC

HW 45 UNIT GAS
INCREASE

15/60/30/60
SIP-64-47
IFP-36-37
FFP-36.26-5



DRILL STEM TEST REPORT

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

9431 Central Suit 100
Wichita Kansas 67206

ATTN: Frank Greenbaum

Menzoer 1-22

22-17-15w-Barton

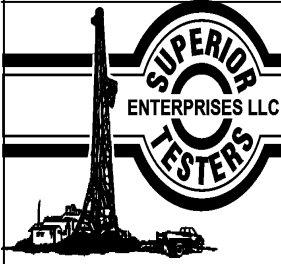
Start Date: 2013.01.12 @ 11:00:00

End Date: 2013.01.12 @ 16:01:30

Job Ticket #: 17401 DST #: 1

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

Printed: 2013.01.13 @ 04:13:53



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company

22-17-15w-Barton

9431 Central Suit 100
Wichita Kansas 67206

Menzoer 1-22

Job Ticket: 17401

DST#: 1

ATTN: Frank Greenbaum

Test Start: 2013.01.12 @ 11:00:00

Tool Information

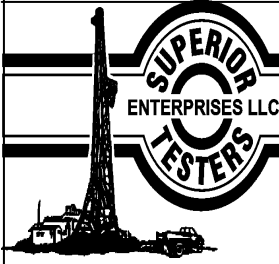
Drill Pipe:	Length: 3279.00 ft	Diameter: 3.80 inches	Volume: 46.00 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 51000.00 lb
			<u>Total Volume: 46.00 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3294.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.57 ft			
Tool Length:	95.57 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			3271.00	
Hydraulic Tool	5.00			3276.00	
Safety Joint	2.00			3278.00	
Jars	6.00			3284.00	
Packer	5.00			3289.00	28.00 Bottom Of Top Packer
Packer	5.00			3294.00	
Anchor	5.00			3299.00	
Change Over Sub	0.75			3299.75	
Drill Pipe	31.07			3330.82	
Change Over Sub	0.75			3331.57	
Anchor	25.00			3356.57	
Recorder	1.00	8405	Inside	3357.57	
Recorder	1.00	8400	Inside	3358.57	
Bullnose	3.00			3361.57	67.57 Bottom Packers & Anchor

Total Tool Length: 95.57



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company

22-17-15w-Barton

9431 Central Suit 100
Wichita Kansas 67206

Menzoer 1-22

Job Ticket: 17401

DST#: 1

ATTN: Frank Greenbaum

Test Start: 2013.01.12 @ 11:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 6.80 in³

Resistivity: ohm.m

Salinity: 6700.00 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
13.00	Mud 100%	0.182

Total Length: 13.00 ft Total Volume: 0.182 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

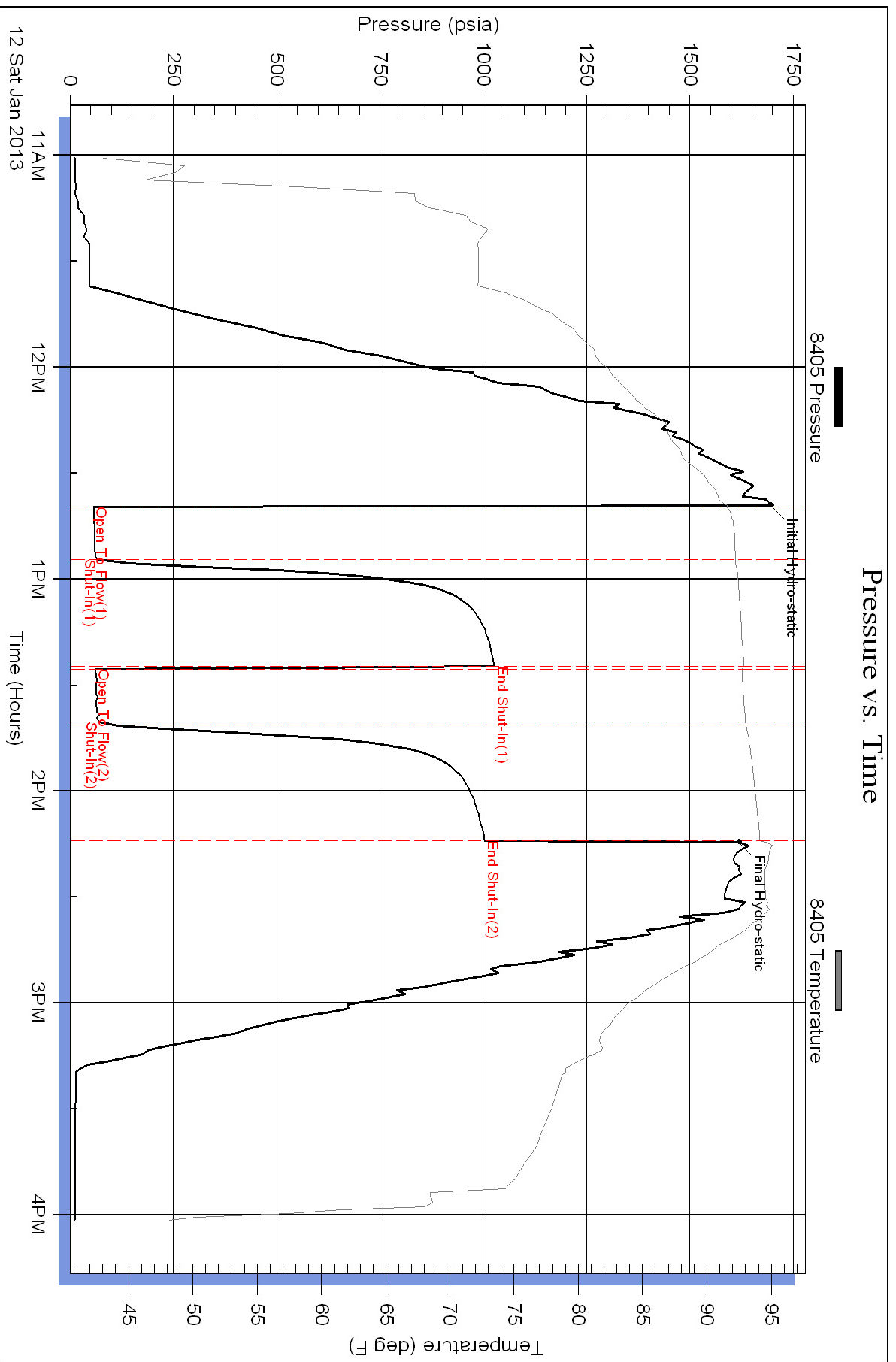
Serial #:

Laboratory Name:

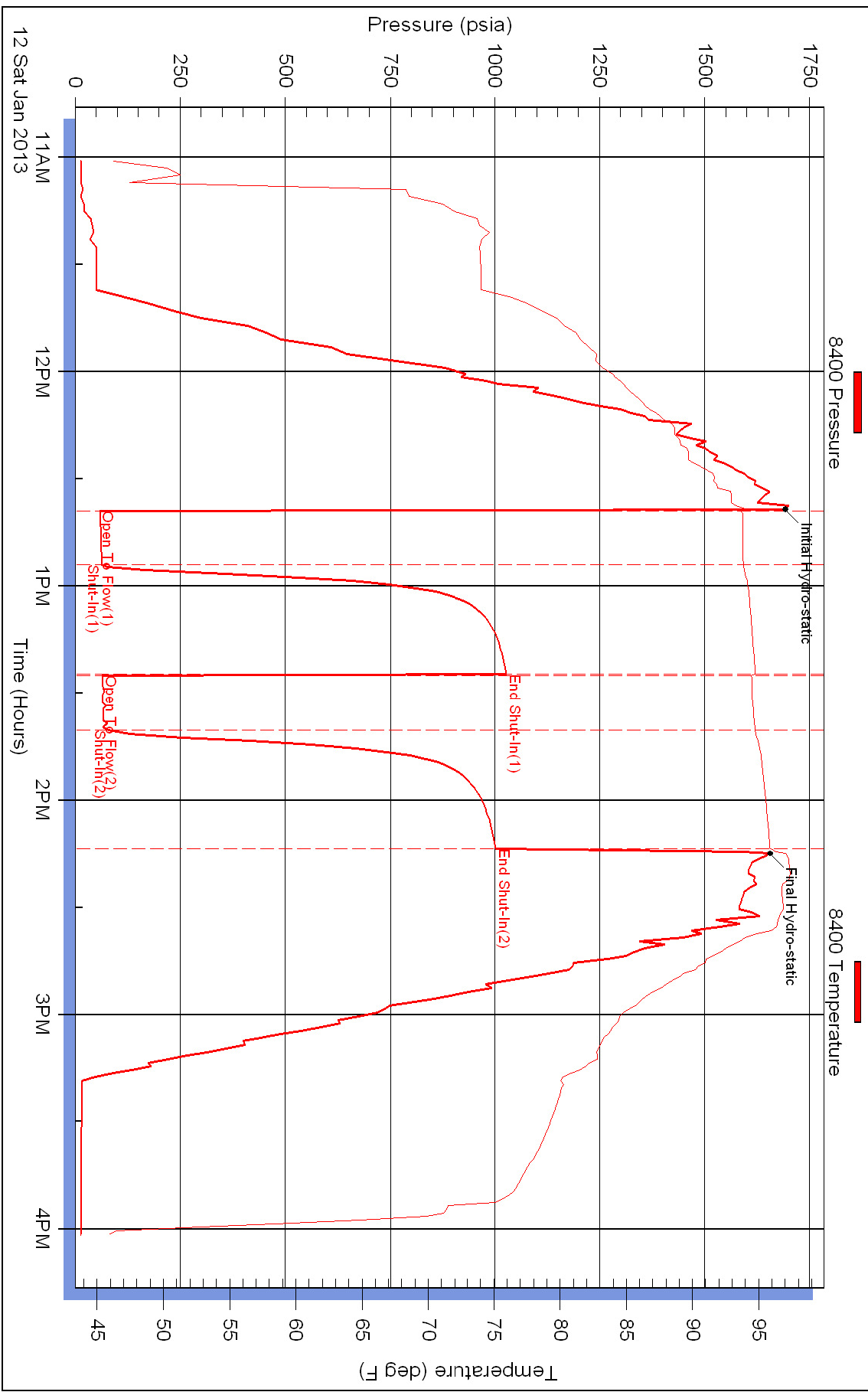
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 Central Suit 100
Wichita Kansas 67206

ATTN: Frank Greenbaum

Menzoer 1-22

22-17-15w-Barton

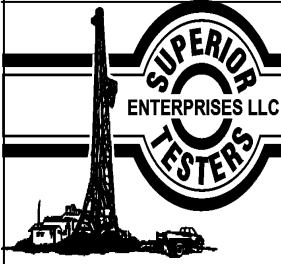
Start Date: 2013.01.13 @ 11:10:00

End Date: 2013.01.13 @ 16:32:00

Job Ticket #: 17402 DST #: 2

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

Printed: 2013.01.13 @ 16:40:52



DRILL STEM TEST REPORT

F.G. Holl Company

22-17-15w-Barton

9431 Central Suit 100
Wichita Kansas 67206

Menzoer 1-22

Job Ticket: 17402

DST#: 2

ATTN: Frank Greenbaum

Test Start: 2013.01.13 @ 11:10:00

GENERAL INFORMATION:

Formation: **Lansing F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:34:30

Time Test Ended: 16:32:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-40

Interval: 3362.00 ft (KB) To 3371.00 ft (KB) (TVD)

Reference Elevations: 1992.00 ft (KB)

Total Depth: 3371.00 ft (KB) (TVD)

1984.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8400 Outside

Press@RunDepth: 31.84 psia @ 3368.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.01.13

End Date: 2013.01.13

Last Calib.: 2013.01.13

Start Time: 11:10:00

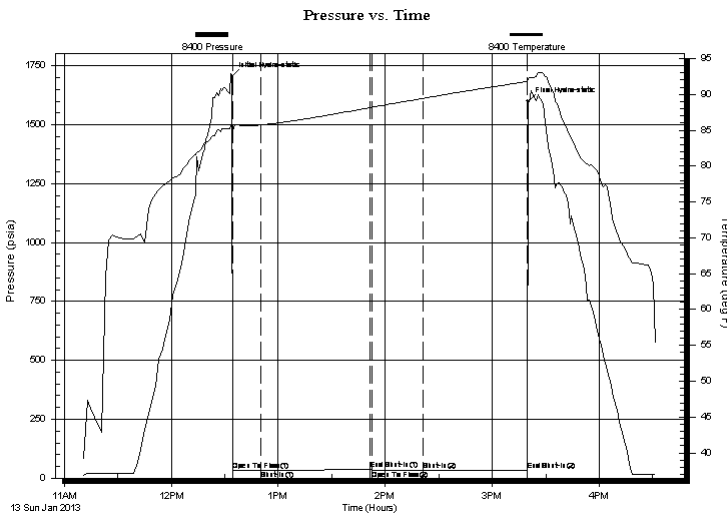
End Time: 16:32:00

Time On Btm: 2013.01.13 @ 12:34:00

Time Off Btm: 2013.01.13 @ 15:20:00

TEST COMMENT: 1st Open 15 minutes Weak blow 1/2 inch.
1st Shut in 60 minutes No blow back.
2nd Open 30 minutes Weak blow died off after 6 minutes.
2nd Shut in 60 minutes No blow back

PRESSURE SUMMARY



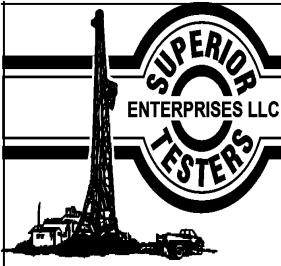
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1704.55	85.33	Initial Hydro-static
1	31.35	84.91	Open To Flow (1)
16	31.67	85.72	Shut-In(1)
78	36.77	88.13	End Shut-In(1)
79	30.86	88.17	Open To Flow (2)
107	31.84	89.42	Shut-In(2)
166	34.16	91.78	End Shut-In(2)
166	1599.27	92.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%	0.03

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company

22-17-15w-Barton

9431 Central Suit 100
Wichita Kansas 67206

Menzoer 1-22

Job Ticket: 17402

DST#: 2

ATTN: Frank Greenbaum

Test Start: 2013.01.13 @ 11:10:00

GENERAL INFORMATION:

Formation: **Lansing F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:34:30

Time Test Ended: 16:32:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-40

Interval: 3362.00 ft (KB) To 3371.00 ft (KB) (TVD)

Reference Elevations: 1992.00 ft (KB)

Total Depth: 3371.00 ft (KB) (TVD)

1984.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8405 Inside

Press@RunDepth: 33.40 psia @ 3367.00 ft (KB)

Capacity: psia

Start Date: 2013.01.13

End Date: 2013.01.13

Last Calib.: 2013.01.13

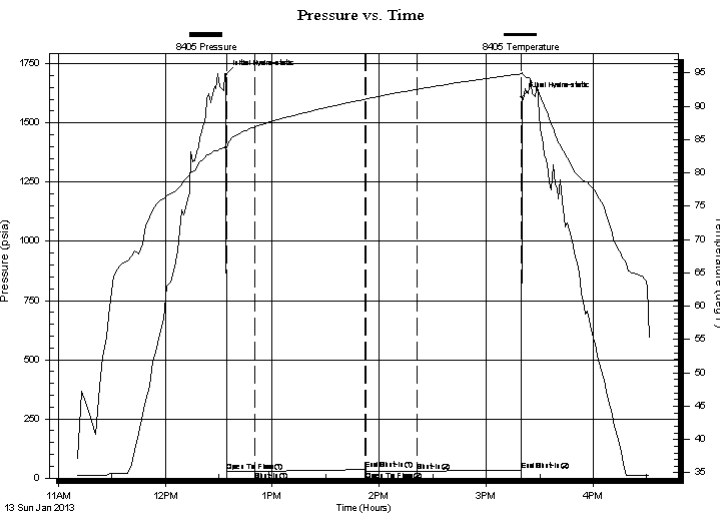
Start Time: 11:10:00

End Time: 16:32:00

Time On Btm: 2013.01.13 @ 12:34:00

Time Off Btm: 2013.01.13 @ 15:20:00

TEST COMMENT: 1st Open 15 minutes Weak blow 1/2 inch.
1st Shut in 60 minutes No blow back.
2nd Open 30 minutes Weak blow died off after 6 minutes.
2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

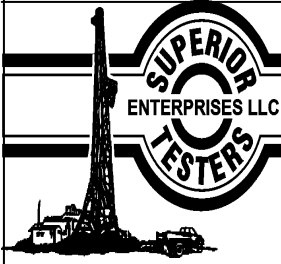
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1704.12	84.04	Initial Hydro-static
1	28.03	83.75	Open To Flow (1)
17	28.98	86.87	Shut-In(1)
78	35.99	91.05	End Shut-In(1)
79	28.61	91.08	Open To Flow (2)
107	29.68	92.53	Shut-In(2)
166	33.40	94.86	End Shut-In(2)
166	1610.56	95.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%	0.03

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company

22-17-15w-Barton

9431 Central Suit 100
Wichita Kansas 67206

Menzoer 1-22

Job Ticket: 17402

DST#: 2

ATTN: Frank Greenbaum

Test Start: 2013.01.13 @ 11:10:00

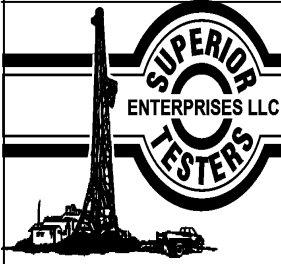
Tool Information

Drill Pipe:	Length: 3348.00 ft	Diameter: 3.80 inches	Volume: 46.96 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: 52000.00 lb
			<u>Total Volume: 46.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3362.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut-In Tool	5.00			3339.00	
Hydraulic Tool	5.00			3344.00	
Safety Joint	2.00			3346.00	
Jars	6.00			3352.00	
Packer	5.00			3357.00	28.00 Bottom Of Top Packer
Packer	5.00			3362.00	
Anchor	4.00			3366.00	
Recorder	1.00	8405	Inside	3367.00	
Recorder	1.00	8400	Outside	3368.00	
Bullnose	3.00			3371.00	9.00 Bottom Packers & Anchor
Total Tool Length:	37.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company

22-17-15w-Barton

9431 Central Suit 100
Wichita Kansas 67206

Menzoer 1-22

Job Ticket: 17402

DST#: 2

ATTN: Frank Greenbaum

Test Start: 2013.01.13 @ 11:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 8.40 in³

Resistivity: ohm.m

Salinity: 8200.00 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
2.00	Mud 100%	0.028

Total Length: 2.00 ft Total Volume: 0.028 bbl

Num Fluid Samples: 0

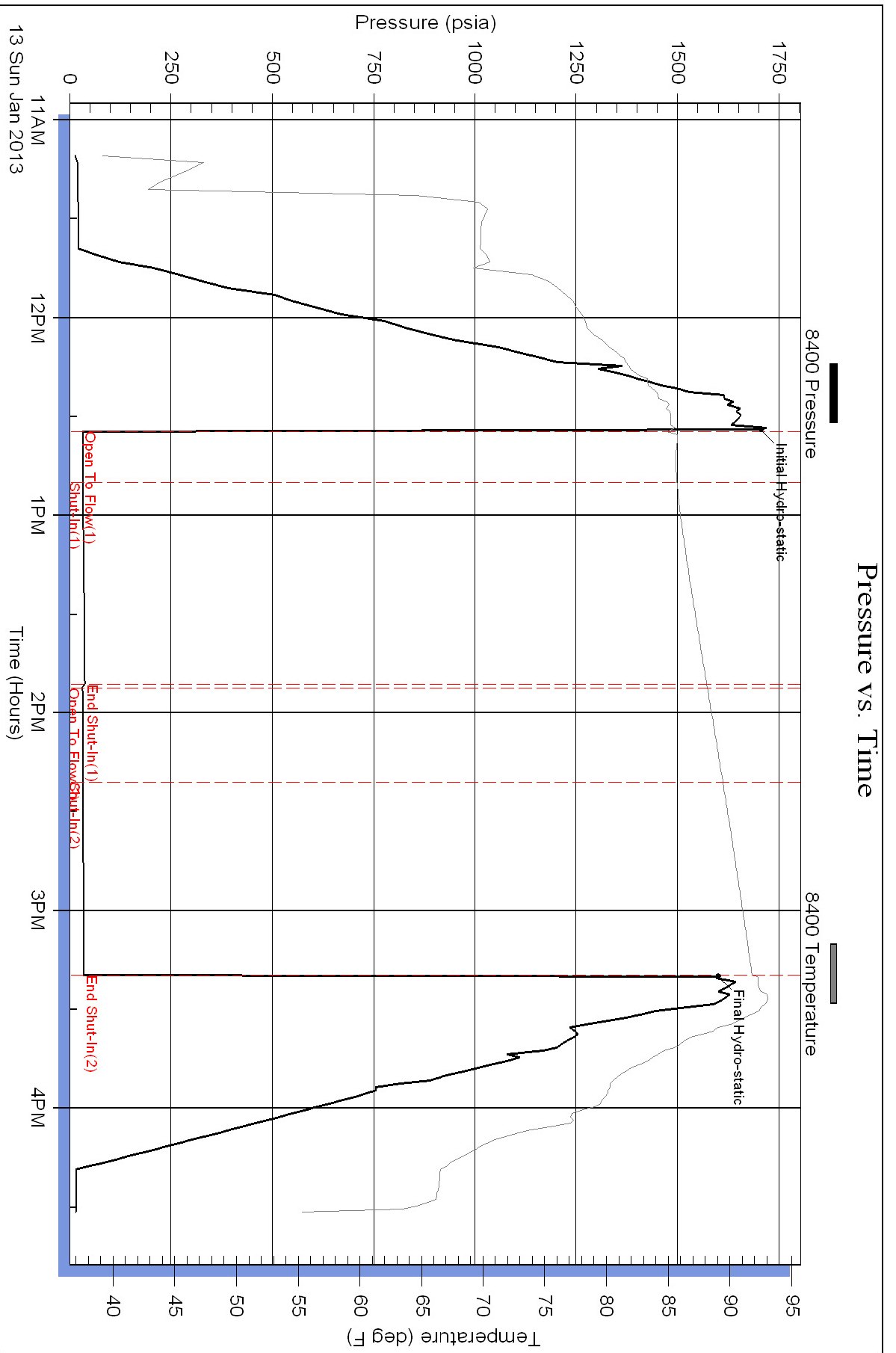
Num Gas Bombs: 0

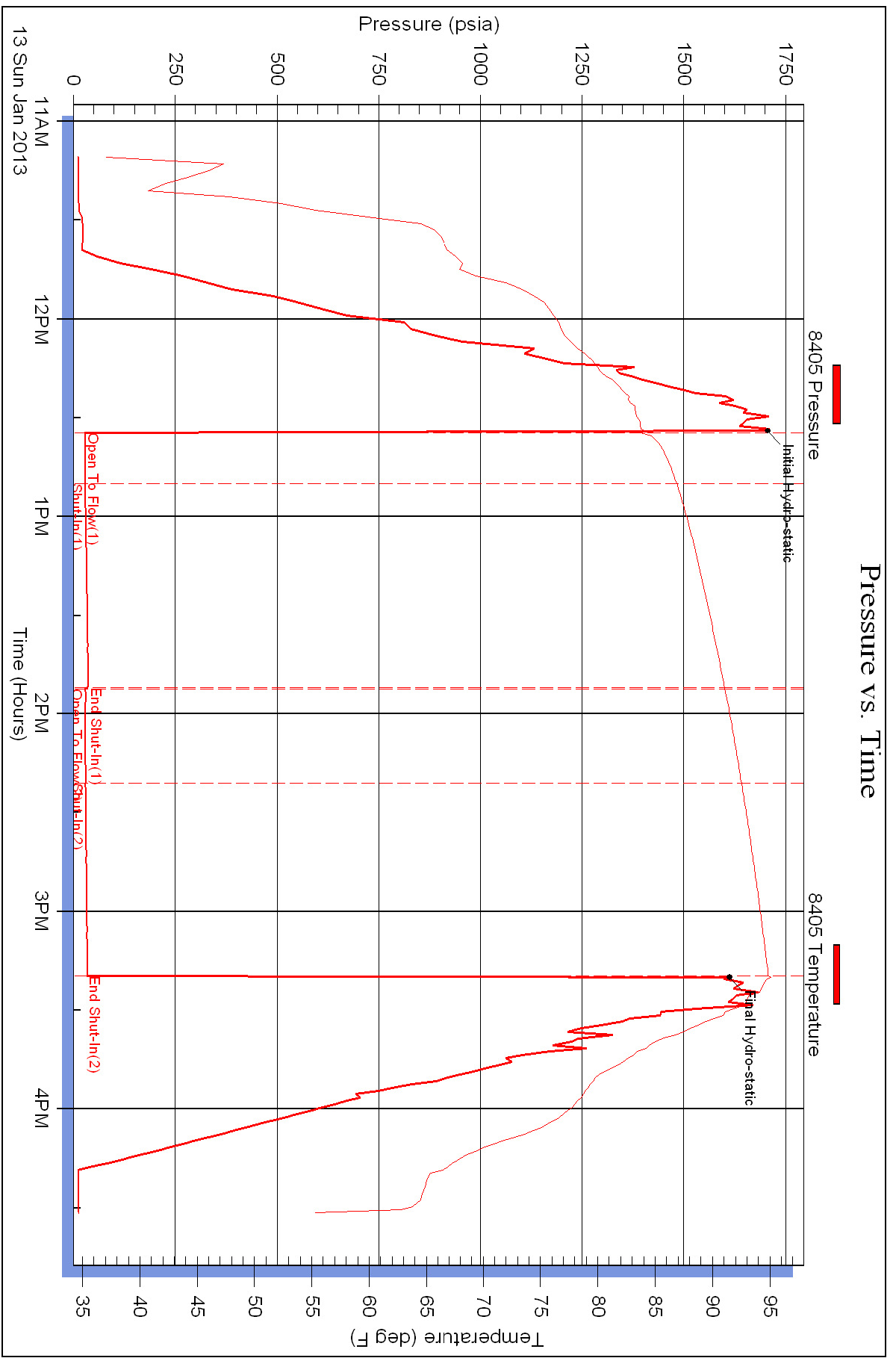
Serial #:

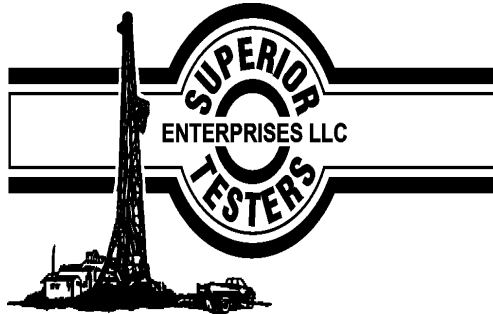
Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

9431 Central Suit 100
Wichita Kansas 67206

ATTN: Frank Greenbaum

Menzoer 1-22

22-17-15w-Barton

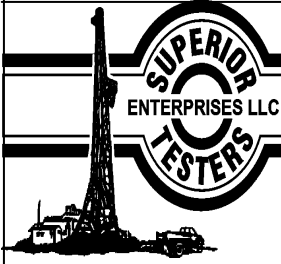
Start Date: 2013.01.13 @ 11:10:00

End Date: 2013.01.13 @ 16:51:00

Job Ticket #: 17403 DST #: 3

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

Printed: 2013.01.14 @ 04:59:27



DRILL STEM TEST REPORT

F.G. Holl Company

22-17-15w-Barton

9431 Central Suit 100
Wichita Kansas 67206

Menzoer 1-22

Job Ticket: 17403

DST#: 3

ATTN: Frank Greenbaum

Test Start: 2013.01.13 @ 11:10:00

GENERAL INFORMATION:

Formation: **Lansing G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:28:30

Time Test Ended: 16:51:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-40

Interval: 3372.00 ft (KB) To 3382.00 ft (KB) (TVD)

Reference Elevations: 1992.00 ft (KB)

Total Depth: 3382.00 ft (KB) (TVD)

1984.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8400 Outside

Press@RunDepth: 70.92 psia @ 3380.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.01.13

End Date: 2013.01.13

Last Calib.: 2013.01.14

Start Time: 11:10:00

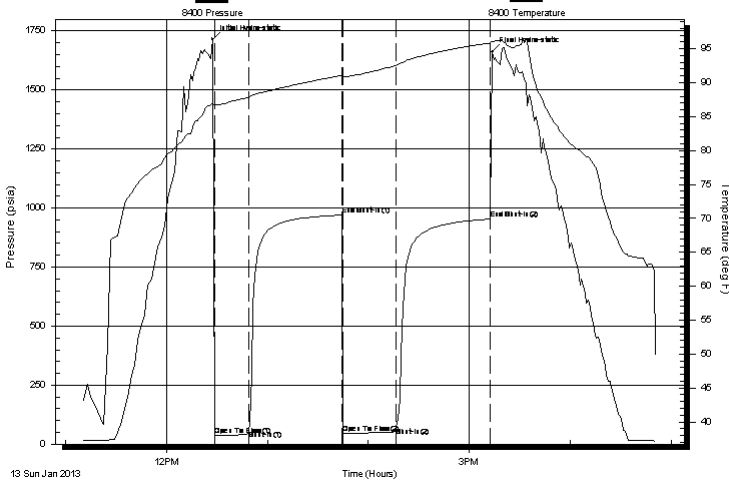
End Time: 16:51:00

Time On Btm: 2013.01.13 @ 12:27:30

Time Off Btm: 2013.01.13 @ 15:13:30

TEST COMMENT: 1st Open 15 minutes Weak blow blew 1 inch.
1st Shut in 60 minutes No blow back
2nd Open 30 minutes Fair blow blew 4 inches.
2nd Shut in 60 minutes No blow back.

Pressure vs. Time



PRESSURE SUMMARY

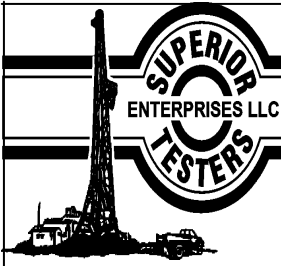
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1715.36	86.93	Initial Hydro-static
1	37.23	86.67	Open To Flow (1)
22	59.29	87.87	Shut-In(1)
77	970.90	91.05	End Shut-In(1)
78	44.08	90.83	Open To Flow (2)
109	70.92	92.58	Shut-In(2)
165	953.50	95.86	End Shut-In(2)
166	1661.38	96.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
12.00	Muddy water Mud 90% Water 10%	0.17

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company
 9431 Central Suit 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

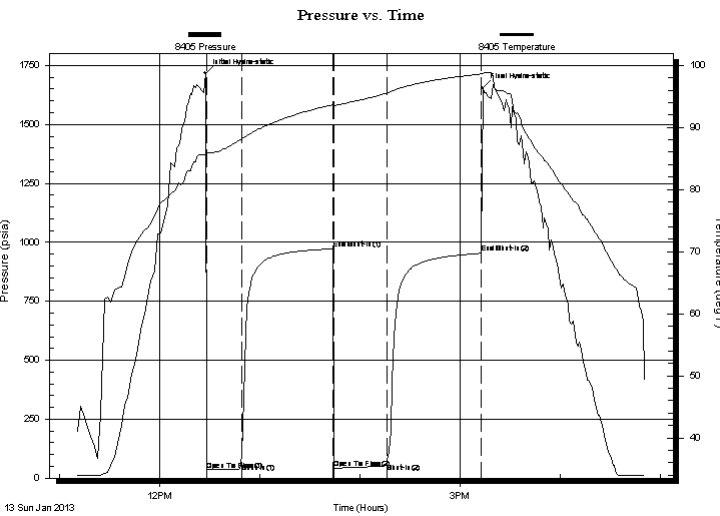
22-17-15w-Barton
Menzoer 1-22
 Job Ticket: 17403 **DST#: 3**
 Test Start: 2013.01.13 @ 11:10:00

GENERAL INFORMATION:

Formation: **Lansing G**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:28:30
 Time Test Ended: 16:51:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-40
 Interval: **3372.00 ft (KB) To 3382.00 ft (KB) (TVD)**
 Total Depth: 3382.00 ft (KB) (TVD)
 Reference Elevations: 1992.00 ft (KB)
 1984.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8405 Inside
 Press@RunDepth: 953.74 psia @ 3379.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.01.13 End Date: 2013.01.13 Last Calib.: 2013.01.14
 Start Time: 11:10:00 End Time: 16:51:00 Time On Btm: 2013.01.13 @ 12:27:30
 Time Off Btm: 2013.01.13 @ 15:13:30

TEST COMMENT: 1st Open 15 minutes Weak blow blew 1 inch.
 1st Shut in 60 minutes No blow back
 2nd Open 30 minutes Fair blow blew 4 inches.
 2nd Shut in 60 minutes No blow back.



PRESSURE SUMMARY

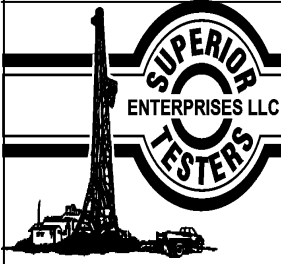
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1717.54	85.63	Initial Hydro-static
1	35.00	85.47	Open To Flow (1)
22	64.03	88.07	Shut-In(1)
77	972.95	93.67	End Shut-In(1)
77	42.63	93.41	Open To Flow (2)
109	62.87	95.51	Shut-In(2)
165	953.74	98.59	End Shut-In(2)
166	1654.37	98.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
12.00	Muddy water Mud 90% Water 10%	0.17

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company

22-17-15w-Barton

9431 Central Suit 100
Wichita Kansas 67206

Menzoer 1-22

Job Ticket: 17403

DST#: 3

ATTN: Frank Greenbaum

Test Start: 2013.01.13 @ 11:10:00

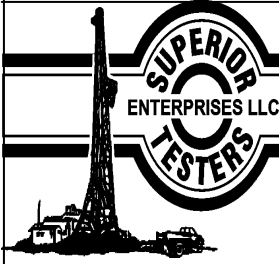
Tool Information

Drill Pipe:	Length: 3372.00 ft	Diameter: 3.80 inches	Volume: 47.30 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: 51000.00 lb
			<u>Total Volume: 47.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3372.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut-In Tool	5.00			3349.00	
Hydraulic Tool	5.00			3354.00	
Safety Joint	2.00			3356.00	
Jars	6.00			3362.00	
Packer	5.00			3367.00	28.00 Bottom Of Top Packer
Packer	5.00			3372.00	
Anchor	6.00			3378.00	
Recorder	1.00	8405	Inside	3379.00	
Recorder	1.00	8400	Outside	3380.00	
Bullnose	3.00			3383.00	11.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company

22-17-15w-Barton

9431 Central Suit 100
Wichita Kansas 67206

Menzoer 1-22

Job Ticket: 17403

DST#: 3

ATTN: Frank Greenbaum

Test Start: 2013.01.13 @ 11:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 8200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
12.00	Muddy water Mud 90% Water 10%	0.168

Total Length: 12.00 ft Total Volume: 0.168 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

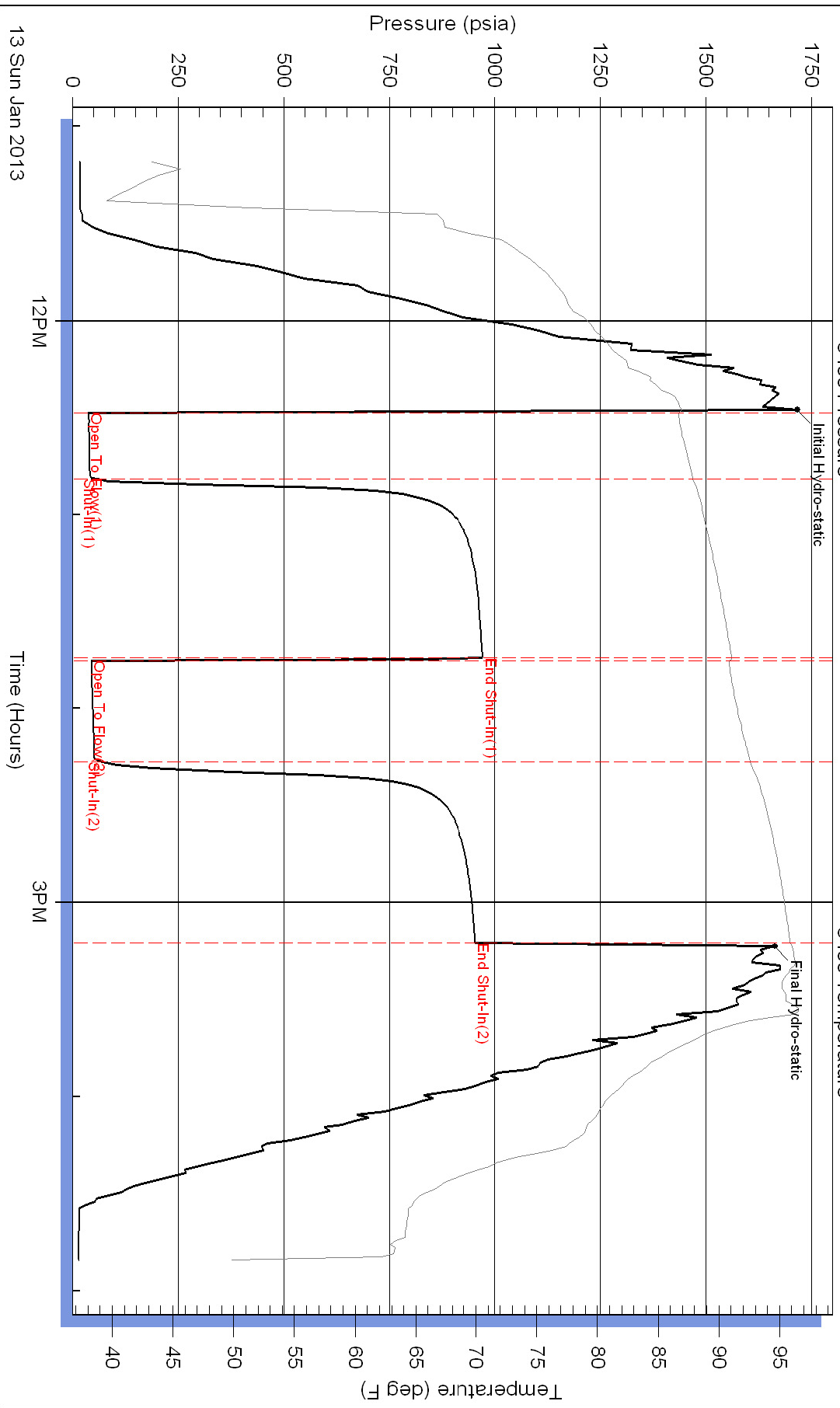
Serial #:

Laboratory Name:

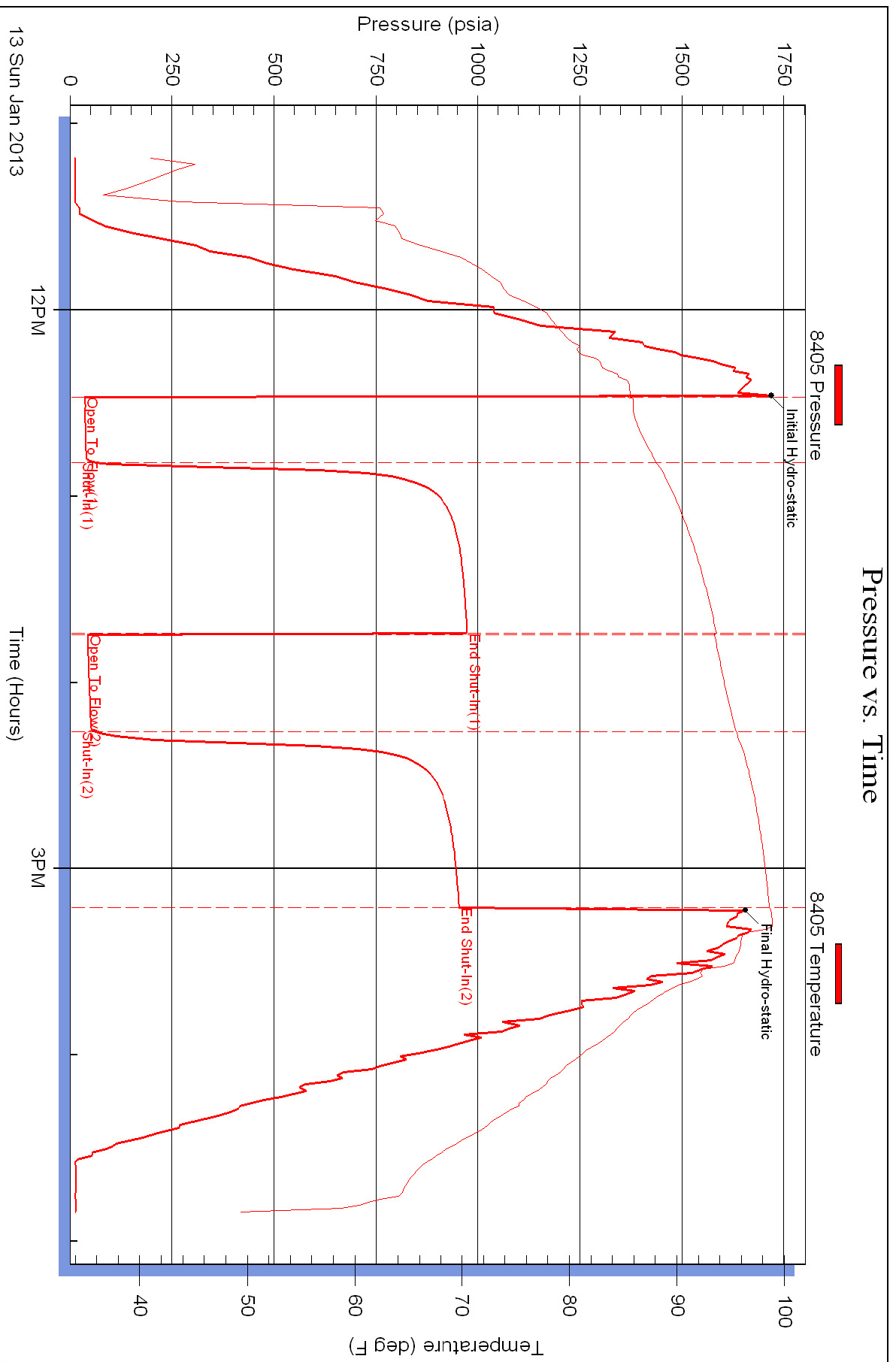
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 Central Suit 100
Wichita Kansas 67206

ATTN: Frank Greenbaum

Menzoer 1-22

22-17-15w-Barton

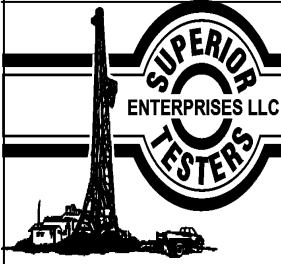
Start Date: 2013.01.14 @ 01:20:00

End Date: 2013.01.14 @ 06:29:00

Job Ticket #: 17404 DST #: 4

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

Printed: 2013.01.14 @ 18:38:09



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company

22-17-15w-Barton

9431 Central Suit 100
Wichita Kansas 67206

Menzoer 1-22

Job Ticket: 17404

DST#: 4

ATTN: Frank Greenbaum

Test Start: 2013.01.14 @ 01:20:00

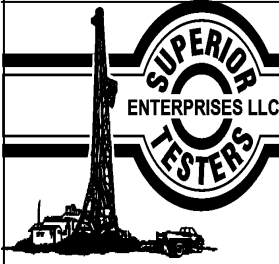
Tool Information

Drill Pipe:	Length: 3406.00 ft	Diameter: 3.80 inches	Volume: 47.78 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: 51000.00 lb
			<u>Total Volume: 47.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3420.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut-In Tool	5.00			3397.00	
Hydraulic Tool	5.00			3402.00	
Safety Joint	2.00			3404.00	
Jars	6.00			3410.00	
Packer	5.00			3415.00	28.00 Bottom Of Top Packer
Packer	5.00			3420.00	
Anchor	18.00			3438.00	
Recorder	1.00	8405	Inside	3439.00	
Recorder	1.00	8400	Outside	3440.00	
Bullnose	3.00			3443.00	23.00 Bottom Packers & Anchor
Total Tool Length:	51.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company

22-17-15w-Barton

9431 Central Suit 100
Wichita Kansas 67206

Menzoer 1-22

Job Ticket: 17404

DST#: 4

ATTN: Frank Greenbaum

Test Start: 2013.01.14 @ 01:20:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 68.00 sec/qt
Water Loss: 9.20 in³
Resistivity: ohm.m
Salinity: 9700.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud 100%	0.028

Total Length: 2.00 ft Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

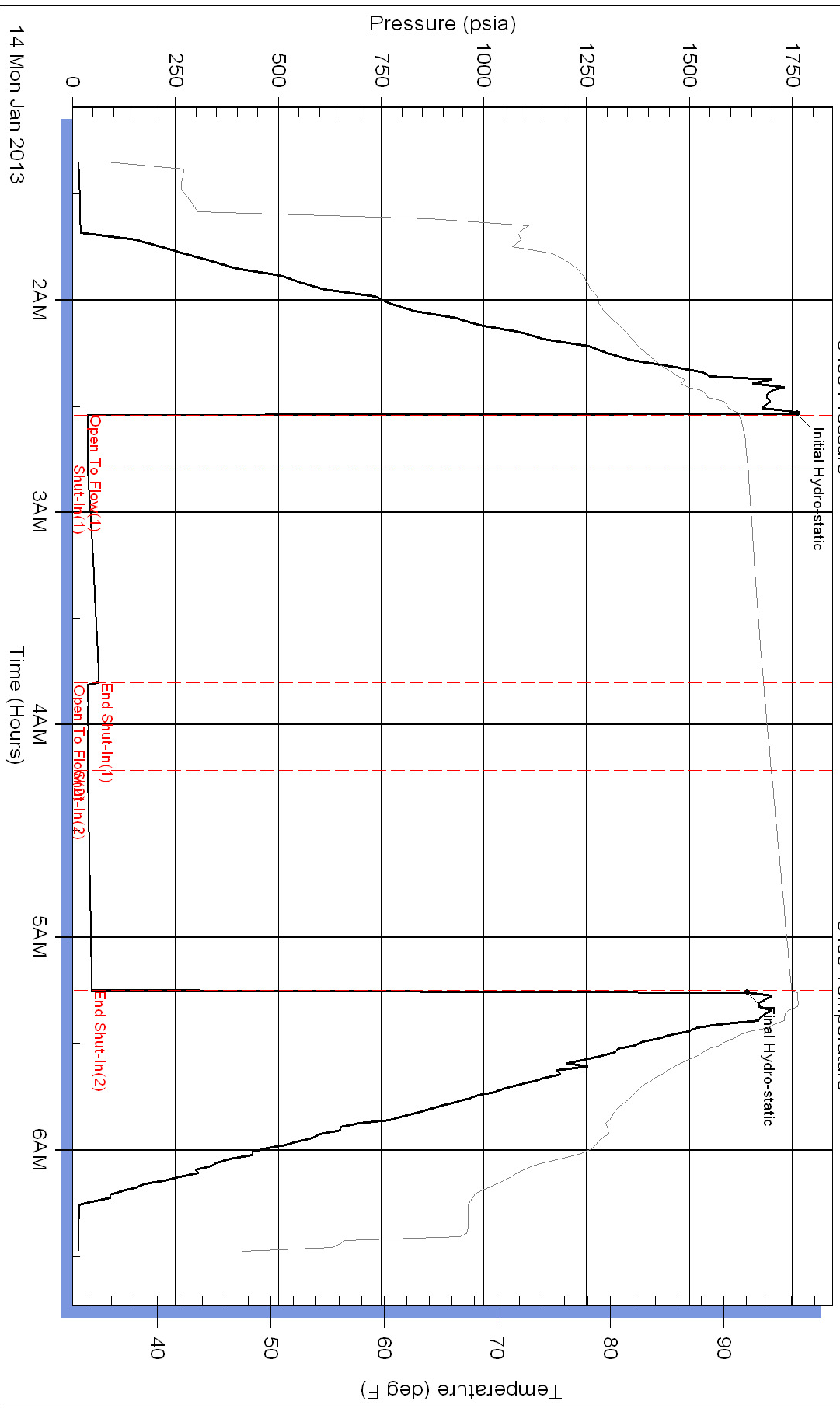
Serial #:

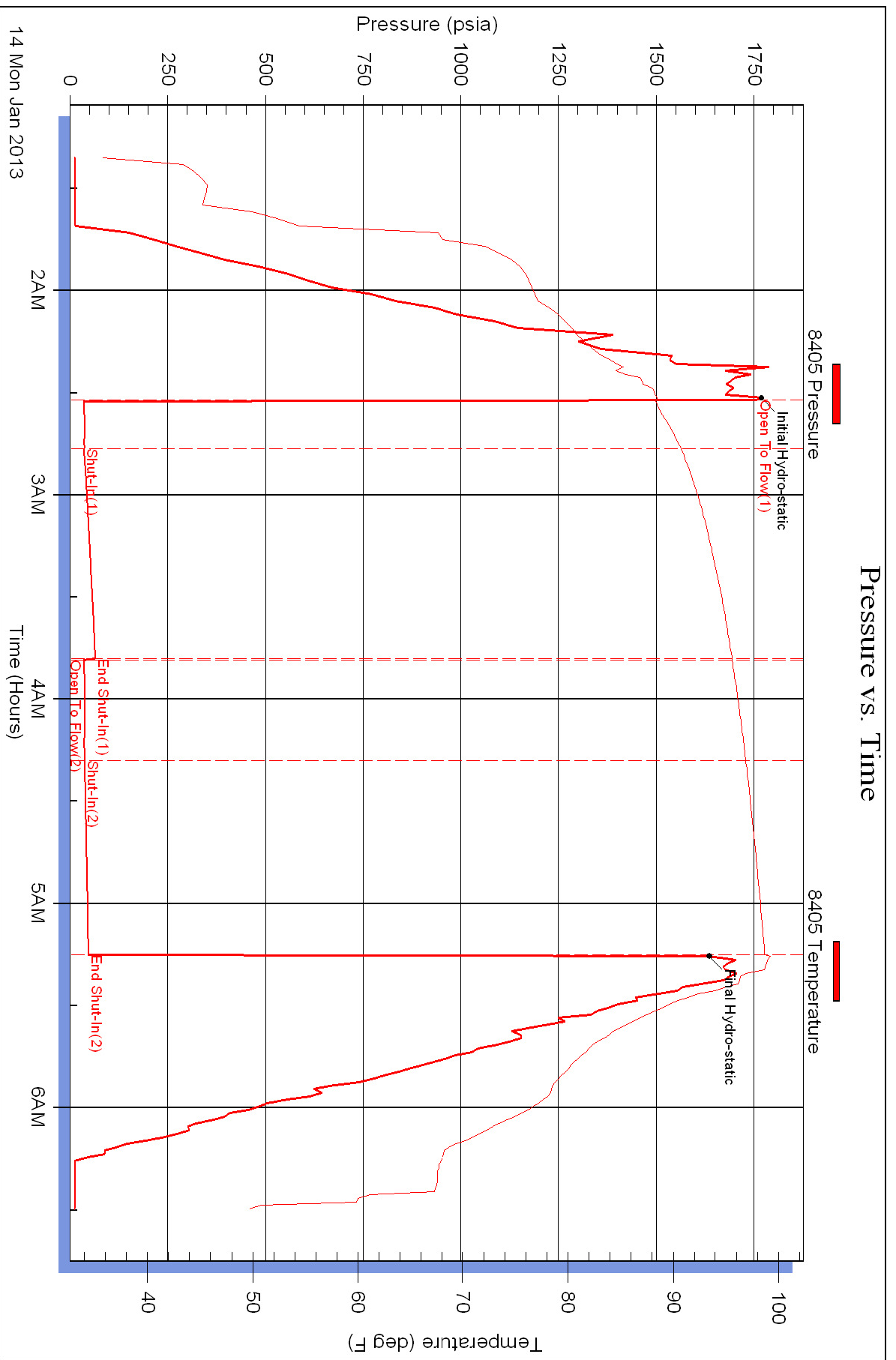
Laboratory Name:

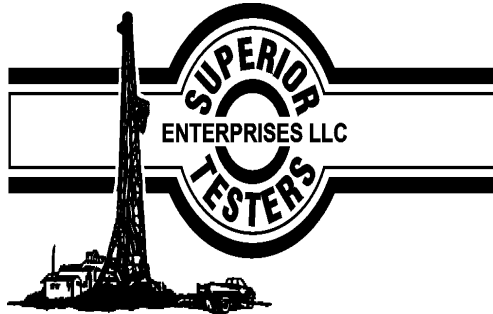
Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

9431 Central Suit 100
Wichita Kansas 67206

ATTN: Frank Greenbaum

Menzoer 1-22

22-17-15w-Barton

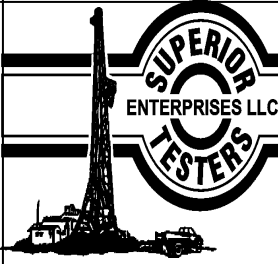
Start Date: 2013.01.15 @ 03:30:00

End Date: 2013.01.15 @ 09:25:30

Job Ticket #: 17405 DST #: 5

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

Printed: 2013.01.15 @ 09:37:41



DRILL STEM TEST REPORT

F.G. Holl Company

22-17-15w-Barton

9431 Central Suit 100
Wichita Kansas 67206

Menzoer 1-22

Job Ticket: 17405

DST#: 5

ATTN: Frank Greenbaum

Test Start: 2013.01.15 @ 03:30:00

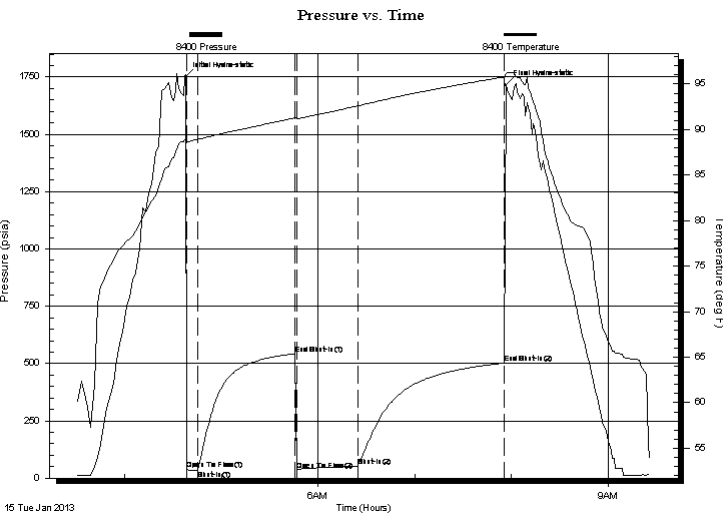
GENERAL INFORMATION:

Formation: **Lancing**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:38:30
 Time Test Ended: 09:25:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-40
 Interval: **3444.00 ft (KB) To 3460.00 ft (KB) (TVD)**
 Reference Elevations: 1992.00 ft (KB)
 Total Depth: 3460.00 ft (KB) (TVD)
 1984.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8400 Outside

Press@RunDepth: 52.02 psia @ 3457.00 ft (KB)
 Capacity: 5000.00 psia
 Start Date: 2013.01.15 End Date: 2013.01.15 Last Calib.: 2013.01.15
 Start Time: 03:30:00 End Time: 09:25:30 Time On Btm: 2013.01.15 @ 04:38:00
 Time Off Btm: 2013.01.15 @ 07:56:30

TEST COMMENT: 1st Open 5 minutes Fair building blow blew bottom bucket 2 minutes.
 1st Shut in 60 minutes No blow back
 2nd Open 45 minutes Strong blow bottom bucket instatly.
 2nd Shut in 90 minutes No blow back.



PRESSURE SUMMARY

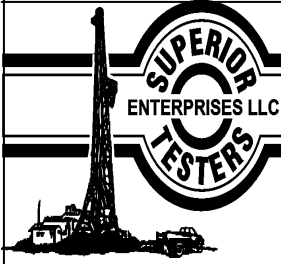
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1753.91	89.00	Initial Hydro-static
1	38.54	88.65	Open To Flow (1)
8	33.35	88.90	Shut-In(1)
68	542.40	91.29	End Shut-In(1)
69	36.23	91.17	Open To Flow (2)
107	52.02	92.58	Shut-In(2)
198	502.05	95.78	End Shut-In(2)
199	1716.51	96.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud cut oil 10% Oil 90% Mud	0.14
61.00	Gassy oil cut mud	0.86
0.00	Gas 20% Oil 75% Mud 5%	0.00
0.00	966 gas in pipe.	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company

22-17-15w-Barton

9431 Central Suit 100
Wichita Kansas 67206

Menzoer 1-22

Job Ticket: 17405

DST#: 5

ATTN: Frank Greenbaum

Test Start: 2013.01.15 @ 03:30:00

GENERAL INFORMATION:

Formation: **Lancing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:38:30

Time Test Ended: 09:25:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-40

Interval: 3444.00 ft (KB) To 3460.00 ft (KB) (TVD)

Reference Elevations: 1992.00 ft (KB)

Total Depth: 3460.00 ft (KB) (TVD)

1984.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8405 Inside

Press@RunDepth: 501.67 psia @ 3456.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.01.15 End Date: 2013.01.15

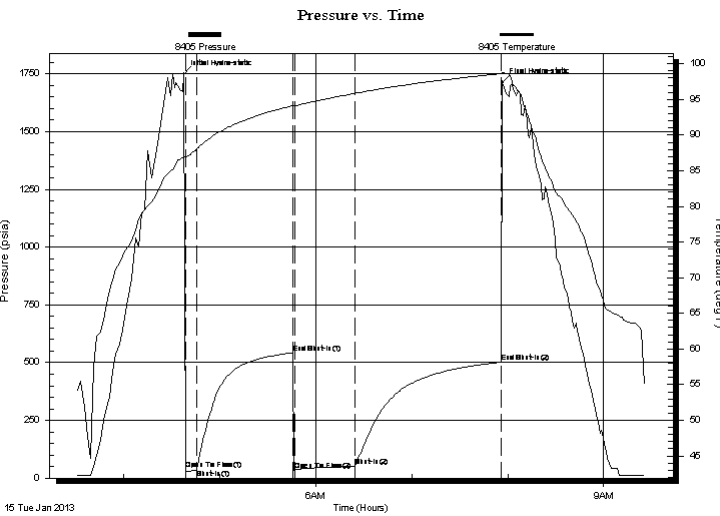
Last Calib.: 2013.01.15

Start Time: 03:30:00 End Time: 09:26:00

Time On Btm: 2013.01.15 @ 04:37:30

Time Off Btm: 2013.01.15 @ 07:56:30

TEST COMMENT: 1st Open 5 minutes Fair building blow blew bottom bucket 2 minutes.
1st Shut in 60 minutes No blow back
2nd Open 45 minutes Strong blow bottom bucket instatly.
2nd Shut in 90 minutes No blow back.



PRESSURE SUMMARY

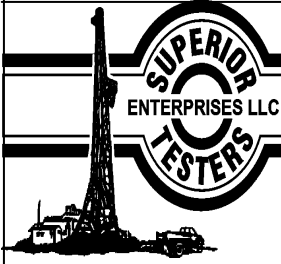
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1748.79	87.01	Initial Hydro-static
1	37.25	86.88	Open To Flow (1)
8	38.03	88.08	Shut-In(1)
68	542.23	94.15	End Shut-In(1)
69	35.52	94.10	Open To Flow (2)
107	52.50	95.85	Shut-In(2)
198	501.67	98.63	End Shut-In(2)
199	1712.22	98.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud cut oil 10% Oil 90% Mud	0.14
61.00	Gassy oil cut mud	0.86
0.00	Gas 20% Oil 75% Mud 5%	0.00
0.00	966 gas in pipe.	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company

22-17-15w-Barton

9431 Central Suit 100
Wichita Kansas 67206

Menzoer 1-22

Job Ticket: 17405

DST#: 5

ATTN: Frank Greenbaum

Test Start: 2013.01.15 @ 03:30:00

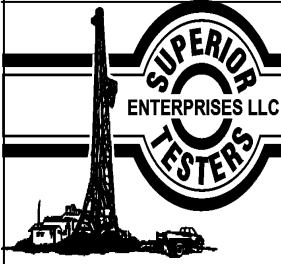
Tool Information

Drill Pipe:	Length: 3436.00 ft	Diameter: 3.80 inches	Volume: 48.20 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 48.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3444.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut-In Tool	5.00			3421.00	
Hydraulic Tool	5.00			3426.00	
Safety Joint	2.00			3428.00	
Jars	6.00			3434.00	
Packer	5.00			3439.00	28.00 Bottom Of Top Packer
Packer	5.00			3444.00	
Anchor	11.00			3455.00	
Recorder	1.00	8405	Inside	3456.00	
Recorder	1.00	8400	Outside	3457.00	
Bullnose	3.00			3460.00	16.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company

22-17-15w-Barton

9431 Central Suit 100
Wichita Kansas 67206

Menzoer 1-22

Job Ticket: 17405

DST#: 5

ATTN: Frank Greenbaum

Test Start: 2013.01.15 @ 03:30:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 68.00 sec/qt
Water Loss: 9.20 in³
Resistivity: ohm.m
Salinity: 9700.00 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
10.00	Mud cut oil 10% Oil 90% Mud	0.140
61.00	Gassy oil cut mud	0.856
0.00	Gas 20% Oil 75% Mud 5%	0.000
0.00	966 gas in pipe.	0.000

Total Length: 71.00 ft Total Volume: 0.996 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

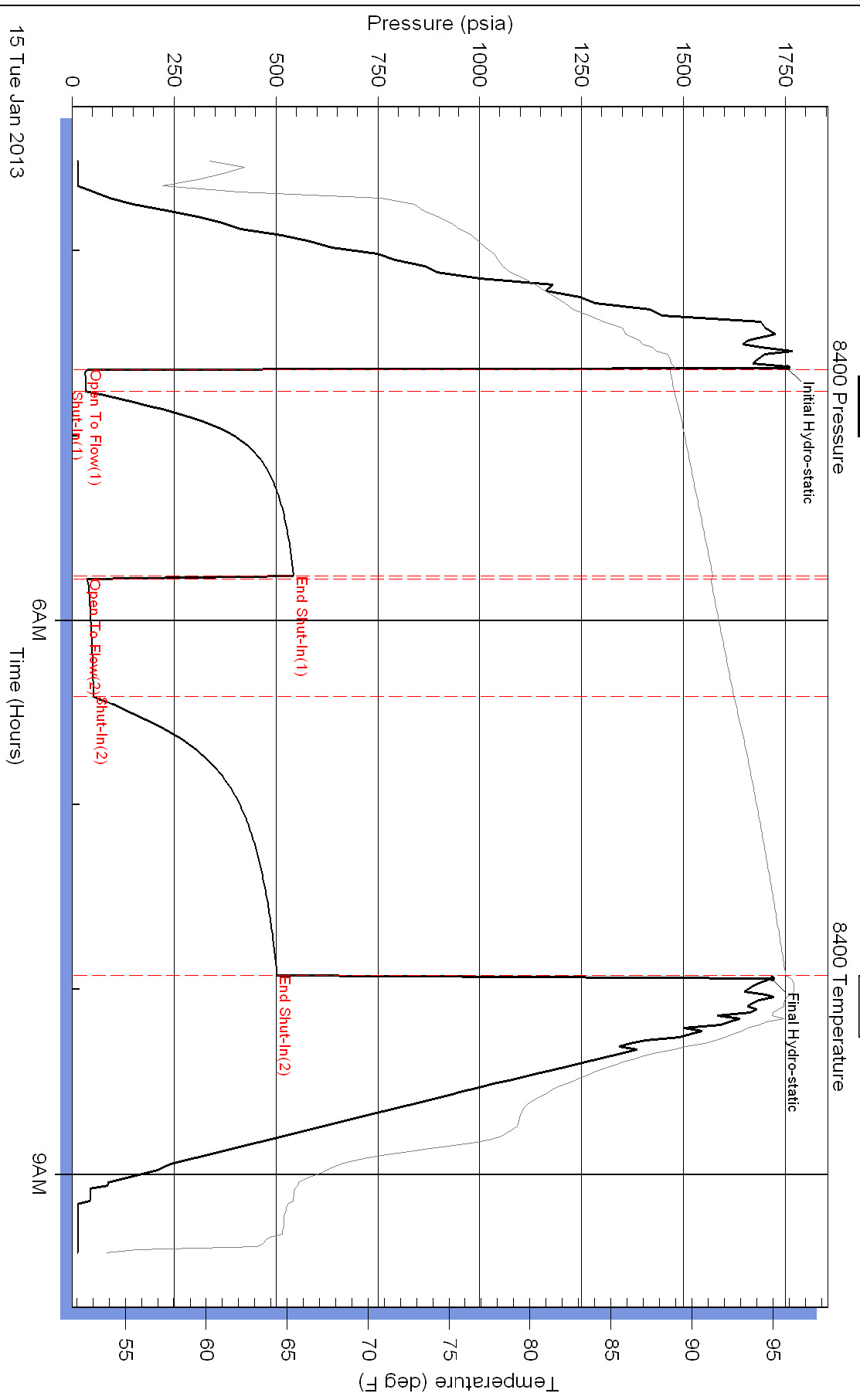
Serial #:

Laboratory Name:

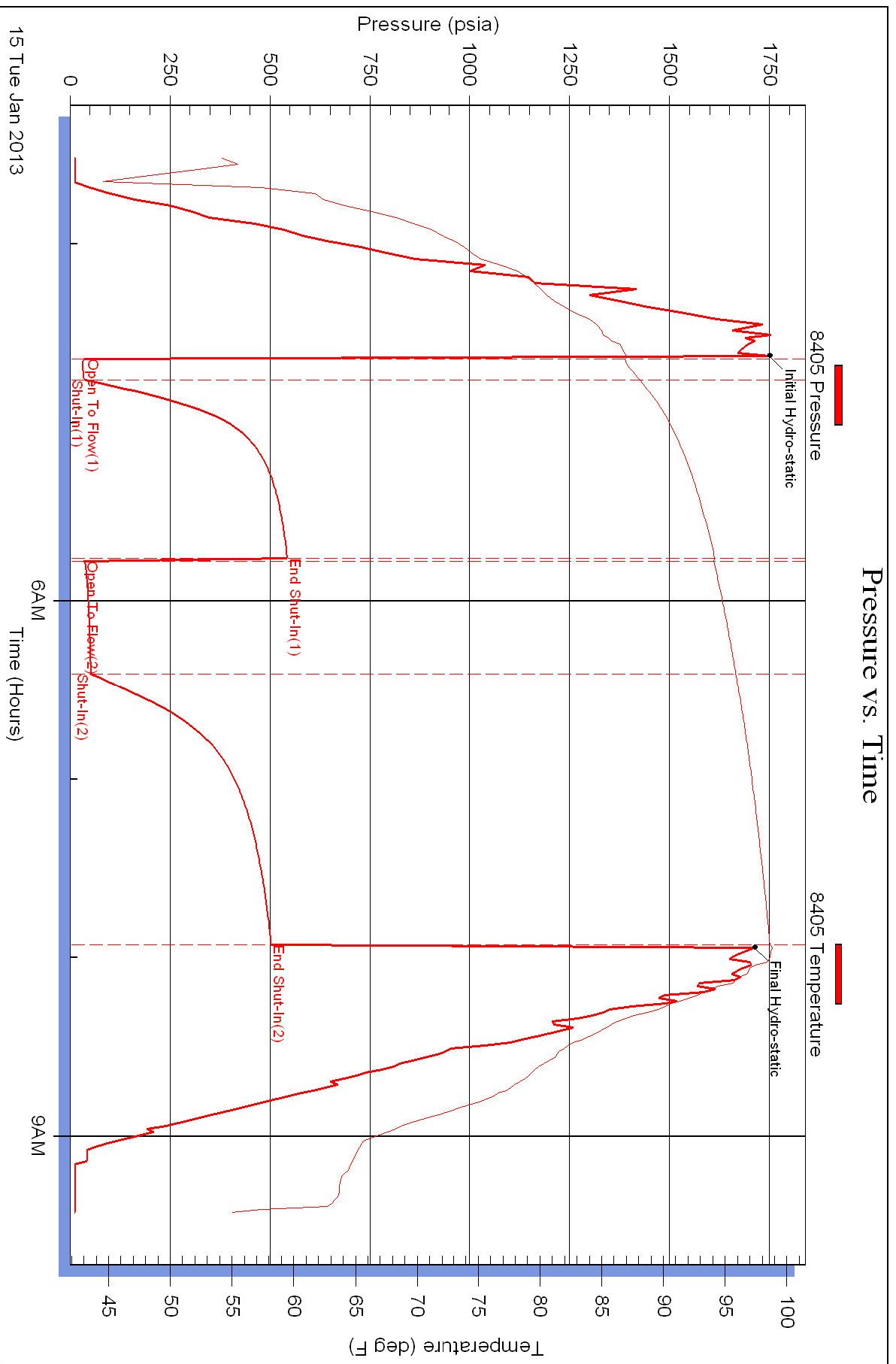
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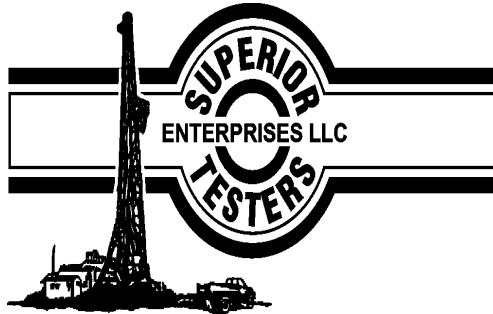
Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 Central Suit 100
Wichita Kansas 67206

ATTN: Frank Greenbaum

Menzoer 1-22

22-17-15w-Barton

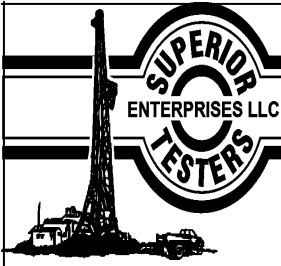
Start Date: 2013.01.15 @ 04:20:00

End Date: 2013.01.15 @ 10:43:00

Job Ticket #: 17406 DST #: 6

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

Printed: 2013.01.15 @ 22:53:05



DRILL STEM TEST REPORT

F.G. Holl Company

22-17-15w-Barton

9431 Central Suit 100
Wichita Kansas 67206

Menzoer 1-22

Job Ticket: 17406

DST#: 6

ATTN: Frank Greenbaum

Test Start: 2013.01.15 @ 04:20:00

GENERAL INFORMATION:

Formation: **Lansing J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:40:30

Time Test Ended: 10:43:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315- Great Bend -45

Interval: 3461.00 ft (KB) To 3475.00 ft (KB) (TVD)

Reference Elevations: 1992.00 ft (KB)

Total Depth: 3475.00 ft (KB) (TVD)

1984.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8400 Outside

Press@RunDepth: 52.73 psia @ 3472.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.01.15 End Date: 2013.01.15

Last Calib.: 2013.01.15

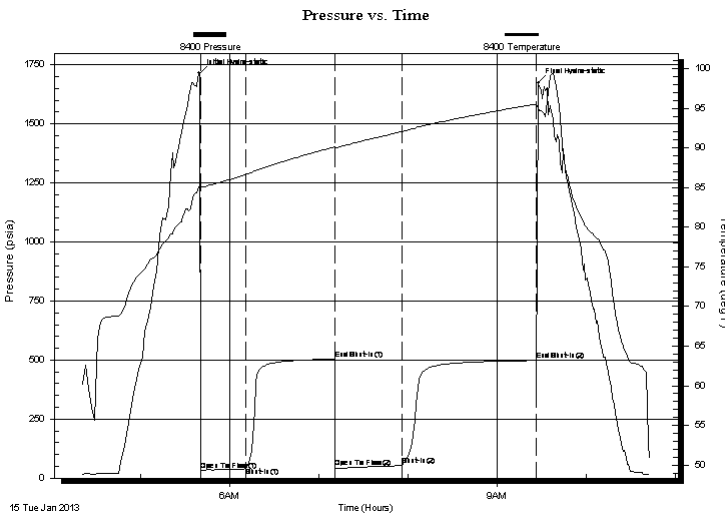
Start Time: 04:20:00 End Time: 10:43:00

Time On Btm: 2013.01.15 @ 05:39:30

Time Off Btm: 2013.01.15 @ 09:27:30

TEST COMMENT: 1st Open 30 minutes Fair building blow built to 3 inches.
1st Shut in 60 minutes No blow back
2nd Open 45 minutes Fair building blow blew 3.5 inches
2nd Shut in 90 minutes No blow back

PRESSURE SUMMARY



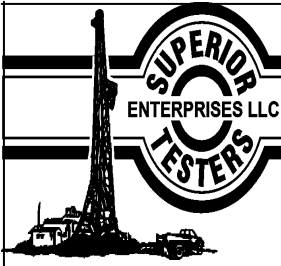
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1714.69	85.29	Initial Hydro-static
1	32.63	85.05	Open To Flow (1)
31	43.81	86.63	Shut-In(1)
91	503.86	90.13	End Shut-In(1)
92	43.96	89.94	Open To Flow (2)
136	52.73	92.03	Shut-In(2)
227	498.26	95.51	End Shut-In(2)
228	1672.85	95.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Muddy water mud 50% water 50%	0.07

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company
 9431 Central Suit 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

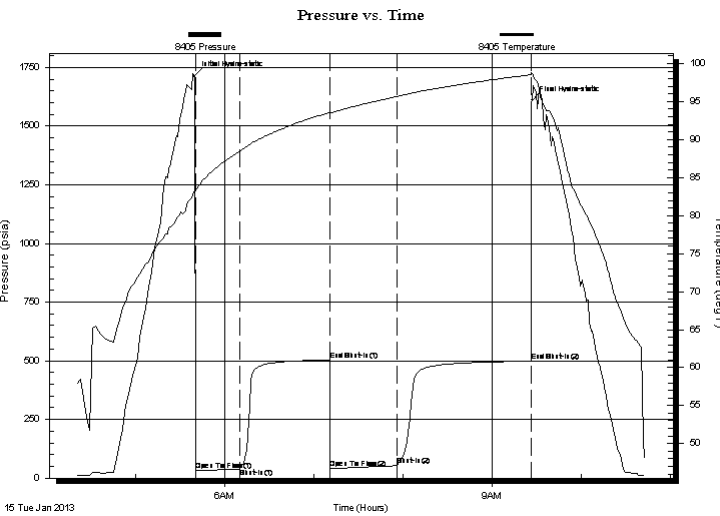
22-17-15w-Barton
Menzoer 1-22
 Job Ticket: 17406 **DST#: 6**
 Test Start: 2013.01.15 @ 04:20:00

GENERAL INFORMATION:

Formation: **Lansing J**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 05:40:30 Tester: Dustin Ellis
 Time Test Ended: 10:43:00 Unit No: 3315- Great Bend -45
Interval: 3461.00 ft (KB) To 3475.00 ft (KB) (TVD) Reference Elevations: 1992.00 ft (KB)
 Total Depth: 3475.00 ft (KB) (TVD) 1984.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8405 Inside
 Press@RunDepth: 498.32 psia @ 3471.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.01.15 End Date: 2013.01.15 Last Calib.: 2013.01.15
 Start Time: 04:20:00 End Time: 10:42:30 Time On Btm: 2013.01.15 @ 05:39:30
 Time Off Btm: 2013.01.15 @ 09:27:00

TEST COMMENT: 1st Open 30 minutes Fair building blow built to 3 inches.
 1st Shut in 60 minutes No blow back
 2nd Open 45 minutes Fair building blow blew 3.5 inches
 2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY

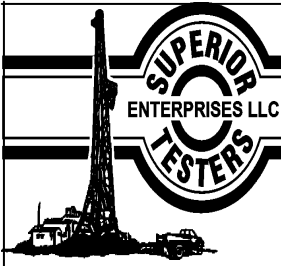
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1714.48	83.31	Initial Hydro-static
1	31.51	83.34	Open To Flow (1)
31	41.11	88.50	Shut-In(1)
91	504.23	93.56	End Shut-In(1)
92	41.00	93.48	Open To Flow (2)
137	56.39	95.66	Shut-In(2)
227	498.32	98.53	End Shut-In(2)
228	1610.08	98.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Muddy water mud 50% water 50%	0.07

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company

22-17-15w-Barton

9431 Central Suit 100
Wichita Kansas 67206

Menzoer 1-22

Job Ticket: 17406

DST#: 6

ATTN: Frank Greenbaum

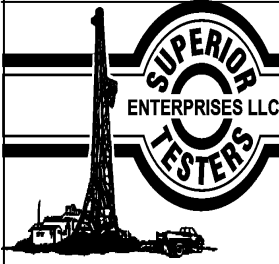
Test Start: 2013.01.15 @ 04:20:00

Tool Information

Drill Pipe:	Length: 3440.00 ft	Diameter: 3.80 inches	Volume: 48.25 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: 54000.00 lb
			<u>Total Volume: 48.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3461.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3438.00	
Hydraulic Tool	5.00			3443.00	
Safety Joint	2.00			3445.00	
Jars	6.00			3451.00	
Packer	5.00			3456.00	28.00 Bottom Of Top Packer
Packer	5.00			3461.00	
Anchor	9.00			3470.00	
Recorder	1.00	8405	Inside	3471.00	
Recorder	1.00	8400	Outside	3472.00	
Bullnose	3.00			3475.00	14.00 Bottom Packers & Anchor
Total Tool Length:	42.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company

22-17-15w-Barton

9431 Central Suit 100
Wichita Kansas 67206

Menzoer 1-22

Job Ticket: 17406

DST#: 6

ATTN: Frank Greenbaum

Test Start: 2013.01.15 @ 04:20:00

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: ohm.m

Salinity: 10500.00 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
5.00	Muddy w ater mud 50% w ater 50%	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

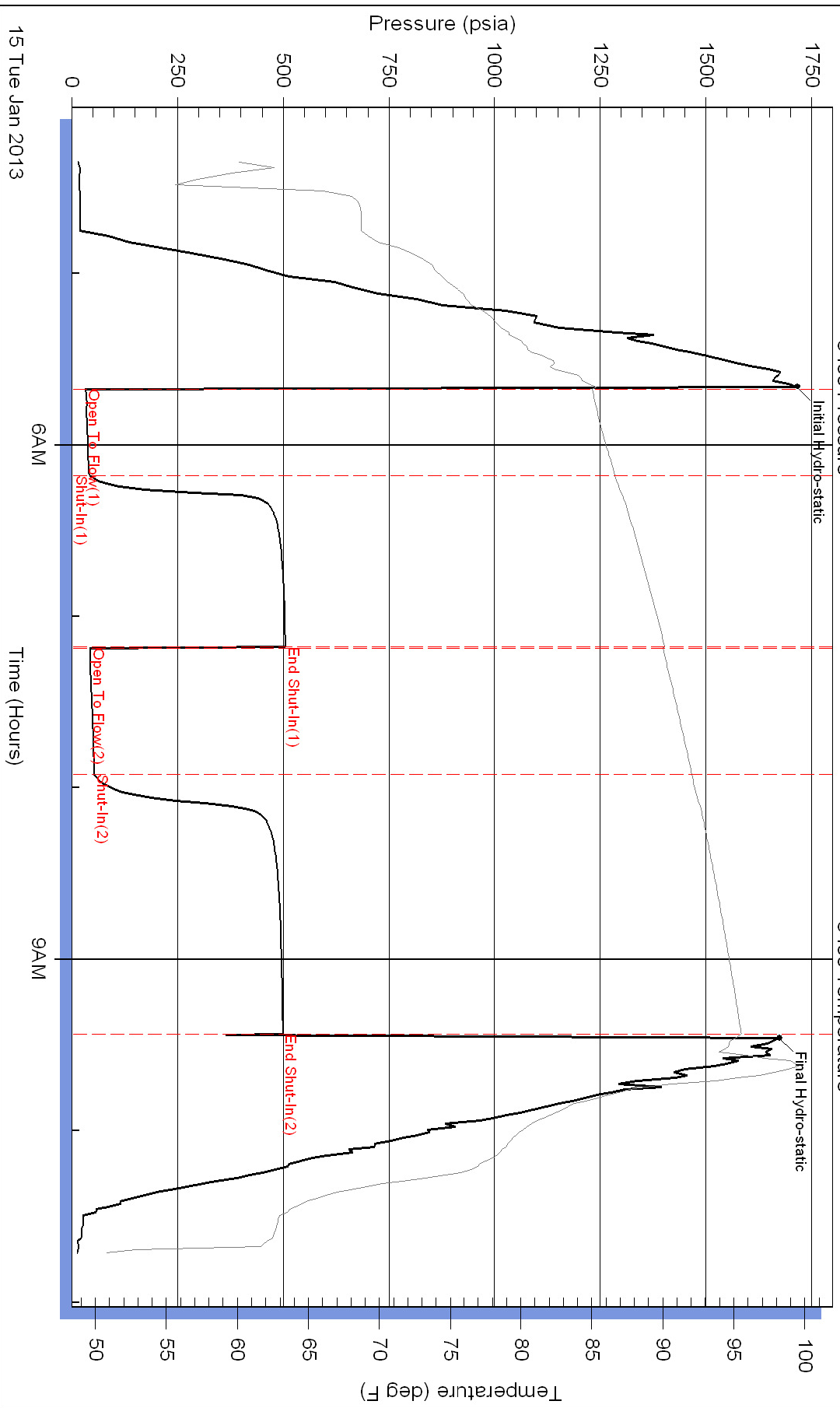
Serial #:

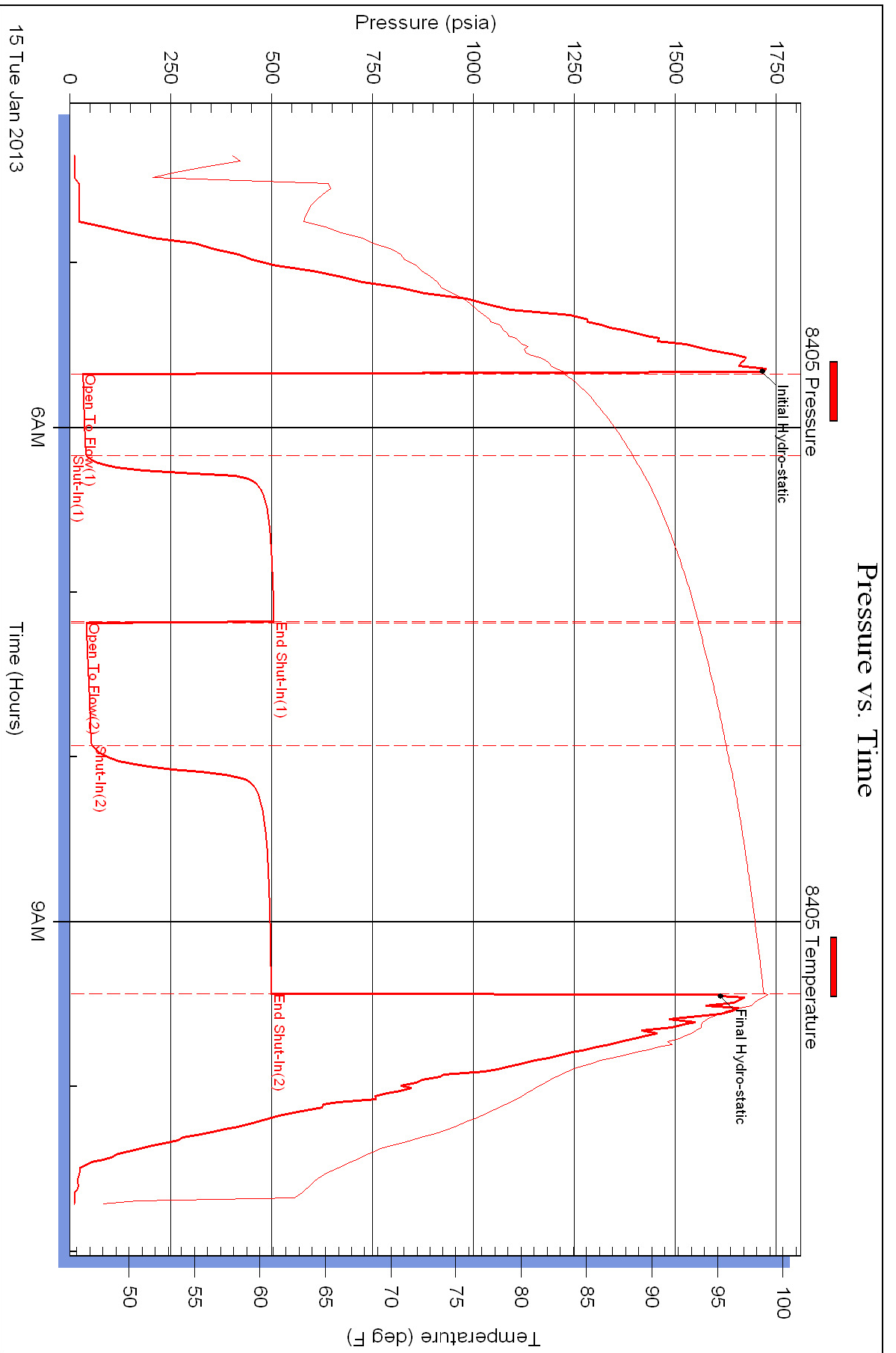
Laboratory Name:

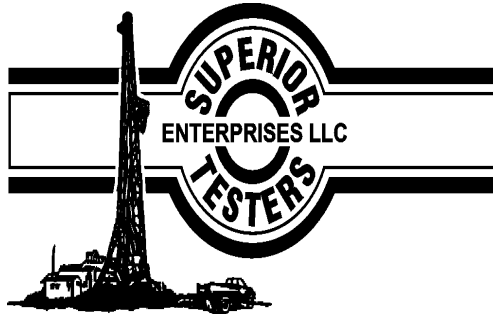
Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

9431 Central Suit 100
Wichita Kansas 67206

ATTN: Frank Greenbaum

Menzoer 1-22

22-17-15w-Barton

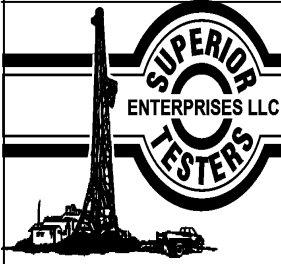
Start Date: 2013.01.16 @ 12:30:00

End Date: 2013.01.16 @ 19:12:23

Job Ticket #: 17407 DST #: 7

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

Printed: 2013.01.16 @ 19:39:38



DRILL STEM TEST REPORT

F.G. Holl Company
 9431 Central Suit 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

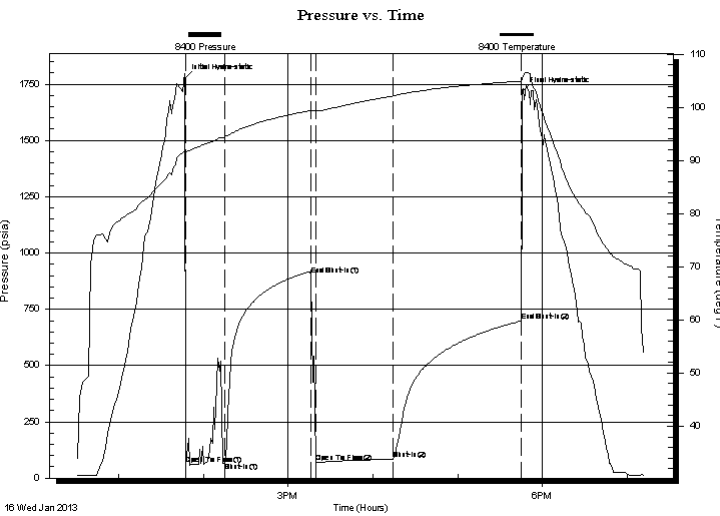
22-17-15w-Barton
Menzoer 1-22
 Job Ticket: 17407 **DST#: 7**
 Test Start: 2013.01.16 @ 12:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 13:47:23 Tester: Dustin Ellis
 Time Test Ended: 19:12:23 Unit No: 3315-Great Bend-45
 Interval: **3518.00 ft (KB) To 3575.00 ft (KB) (TVD)** Reference Elevations: 1992.00 ft (KB)
 Total Depth: 3575.00 ft (KB) (TVD) 1984.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8400 Inside
 Press@RunDepth: 83.96 psia @ 3572.37 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.01.16 End Date: 2013.01.16 Last Calib.: 2013.01.16
 Start Time: 12:30:00 End Time: 19:12:23 Time On Btm: 2013.01.16 @ 13:46:53
 Time Off Btm: 2013.01.16 @ 17:45:53

TEST COMMENT: 1st Open 30 minutes Weak blow blew 3 inches.
 1st Shut in 60 minutes No blow back
 2nd Open 60 minutes Weak blow built to 2.5 inches.
 2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY

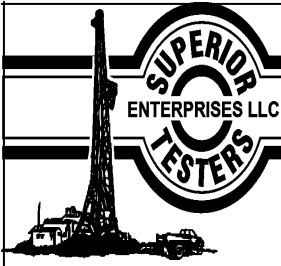
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1775.56	91.95	Initial Hydro-static
1	60.99	91.54	Open To Flow (1)
29	68.31	94.45	Shut-In(1)
90	903.94	99.43	End Shut-In(1)
93	70.08	99.23	Open To Flow (2)
148	83.96	102.15	Shut-In(2)
238	698.12	104.94	End Shut-In(2)
239	1718.08	105.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
71.00	Very very lightly oil spotted mud 100% mu	1.00
0.00	100% mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company
 9431 Central Suit 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

22-17-15w-Barton
Menzoer 1-22
 Job Ticket: 17407 **DST#: 7**
 Test Start: 2013.01.16 @ 12:30:00

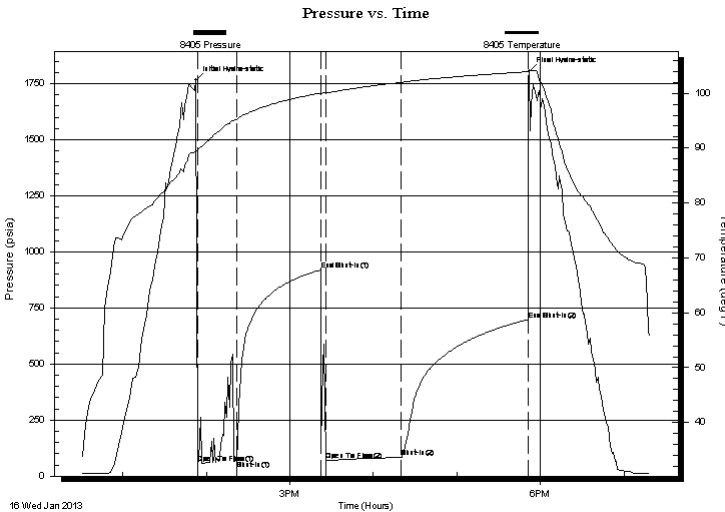
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 13:47:23 Tester: Dustin Ellis
 Time Test Ended: 19:12:23 Unit No: 3315-Great Bend-45
 Interval: **3518.00 ft (KB) To 3575.00 ft (KB) (TVD)** Reference Elevations: 1992.00 ft (KB)
 Total Depth: 3575.00 ft (KB) (TVD) 1984.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8405 Inside
 Press@RunDepth: 698.48 psia @ 3571.37 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.01.16 End Date: 2013.01.16 Last Calib.: 2013.01.16
 Start Time: 12:30:00 End Time: 19:18:30 Time On Btm: 2013.01.16 @ 13:52:30
 Time Off Btm: 2013.01.16 @ 17:52:00

TEST COMMENT: 1st Open 30 minutes Weak blow blew 3 inches.
 1st Shut in 60 minutes No blow back
 2nd Open 60 minutes Weak blow built to 2.5 inches.
 2nd Shut in 90 minutes No blow back

PRESSURE SUMMARY



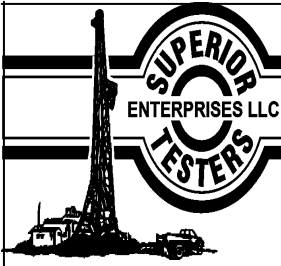
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1765.49	89.31	Initial Hydro-static
1	58.93	89.72	Open To Flow (1)
29	68.45	95.25	Shut-In(1)
90	919.47	100.02	End Shut-In(1)
93	69.57	100.02	Open To Flow (2)
148	83.41	101.98	Shut-In(2)
239	698.48	103.92	End Shut-In(2)
240	1805.69	104.13	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
71.00	Very very lightly oil spotted mud 100% mu	1.00
0.00	100% mud	0.00

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company

22-17-15w-Barton

9431 Central Suit 100
Wichita Kansas 67206

Menzoer 1-22

Job Ticket: 17407

DST#: 7

ATTN: Frank Greenbaum

Test Start: 2013.01.16 @ 12:30:00

Tool Information

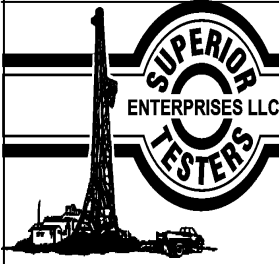
Drill Pipe:	Length: 3500.00 ft	Diameter: 3.80 inches	Volume: 49.10 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 49.10 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3518.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.37 ft			
Tool Length:	85.37 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			3495.00	
Hydraulic Tool	5.00			3500.00	
Safety Joint	2.00			3502.00	
Jars	6.00			3508.00	
Packer	5.00			3513.00	28.00 Bottom Of Top Packer
Packer	5.00			3518.00	
Anchor	5.00			3523.00	
Change Over Sub	0.75			3523.75	
Drill Pipe	30.87			3554.62	
Change Over Sub	0.75			3555.37	
Anchor	15.00			3570.37	
Recorder	1.00	8405	Inside	3571.37	
Recorder	1.00	8400	Inside	3572.37	
Bullnose	3.00			3575.37	57.37 Bottom Packers & Anchor

Total Tool Length: 85.37



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company

22-17-15w-Barton

9431 Central Suit 100
Wichita Kansas 67206

Menzoer 1-22

Job Ticket: 17407

DST#: 7

ATTN: Frank Greenbaum

Test Start: 2013.01.16 @ 12:30:00

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: ohm.m
Salinity: 10500.00 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
71.00	Very very lightly oil spotted mud 100%mu	0.996
0.00	100% mud	0.000

Total Length: 71.00 ft Total Volume: 0.996 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

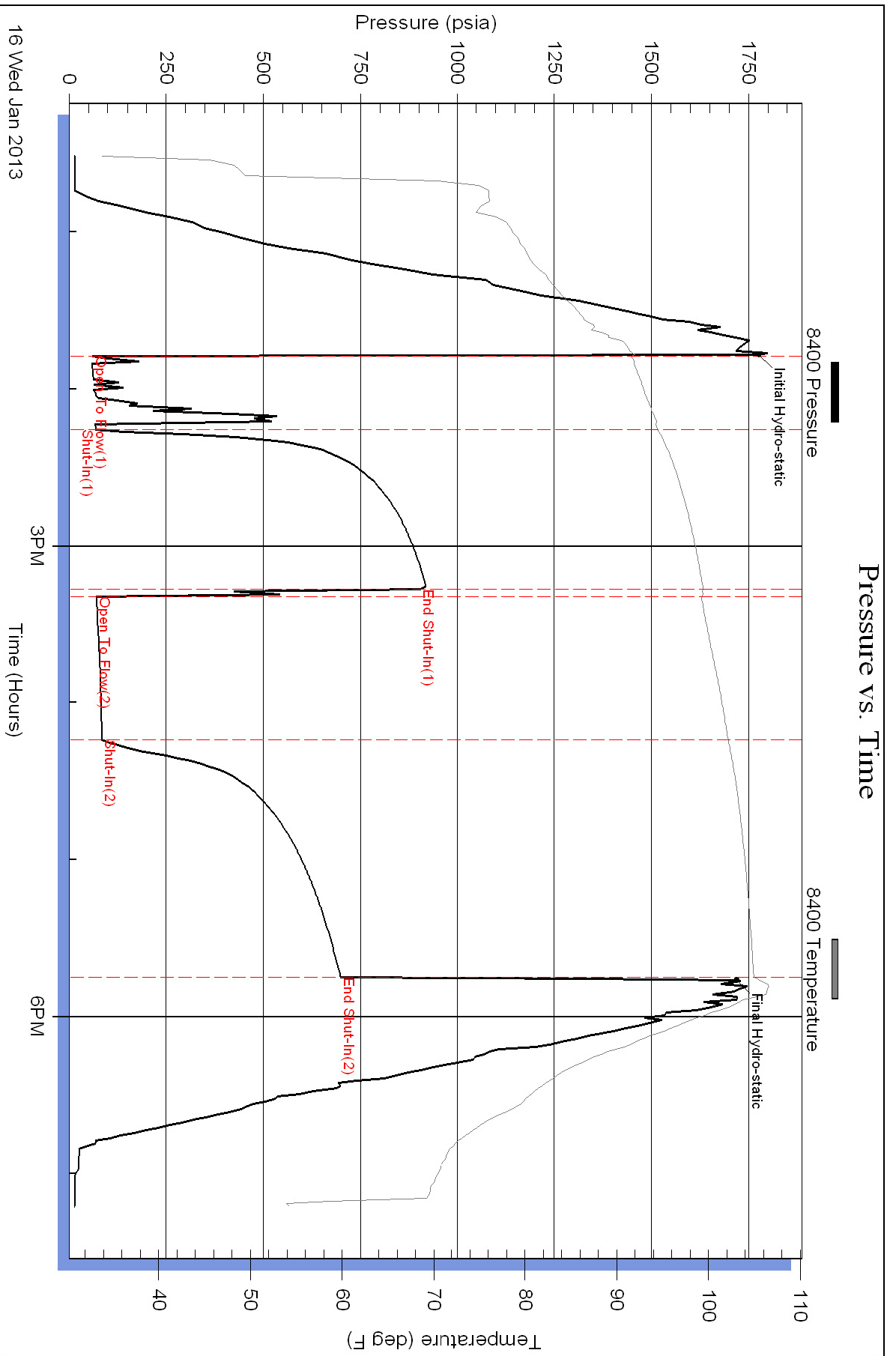
Serial #:

Laboratory Name:

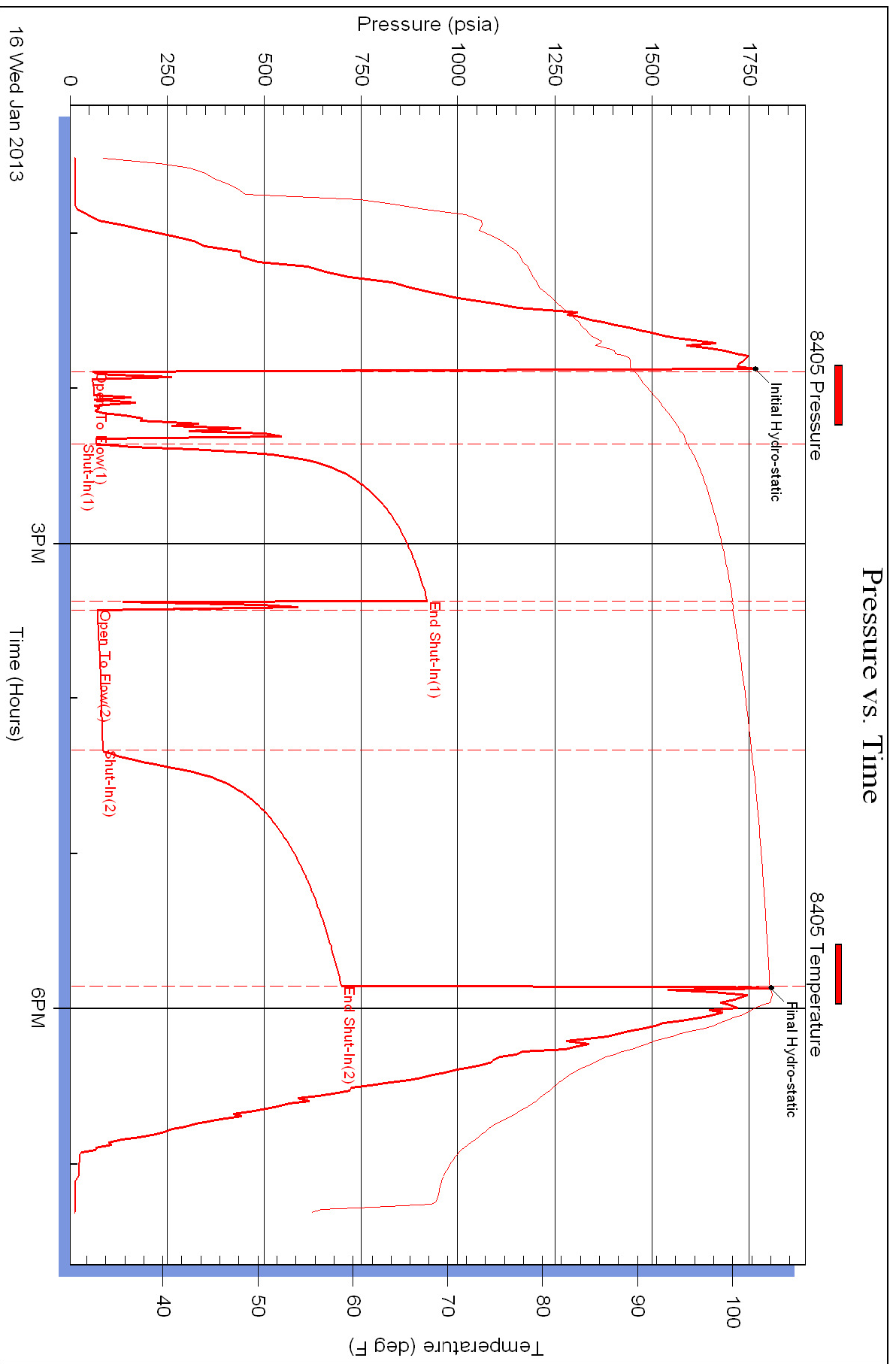
Laboratory Location:

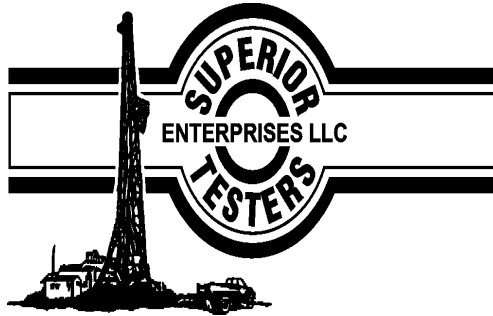
Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 Central Suit 100
Wichita Kansas 67206

ATTN: Frank Greenbaum

Menzoer 1-22

22-17-15w-Barton

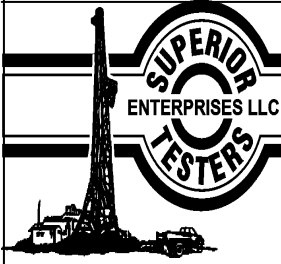
Start Date: 2013.01.17 @ 03:30:00

End Date: 2013.01.17 @ 09:33:30

Job Ticket #: 17408 DST #: 8

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

Printed: 2013.01.17 @ 09:48:45



DRILL STEM TEST REPORT

F.G. Holl Company

22-17-15w-Barton

9431 Central Suit 100
Wichita Kansas 67206

Menzoer 1-22

Job Ticket: 17408

DST#: 8

ATTN: Frank Greenbaum

Test Start: 2013.01.17 @ 03:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:45:30

Time Test Ended: 09:33:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-45

Interval: 3576.00 ft (KB) To 3583.00 ft (KB) (TVD)

Reference Elevations: 1992.00 ft (KB)

Total Depth: 3583.00 ft (KB) (TVD)

1984.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8405 Inside

Press@RunDepth: 62.72 psia @ 3579.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.01.17 End Date: 2013.01.17

Last Calib.: 2013.01.17

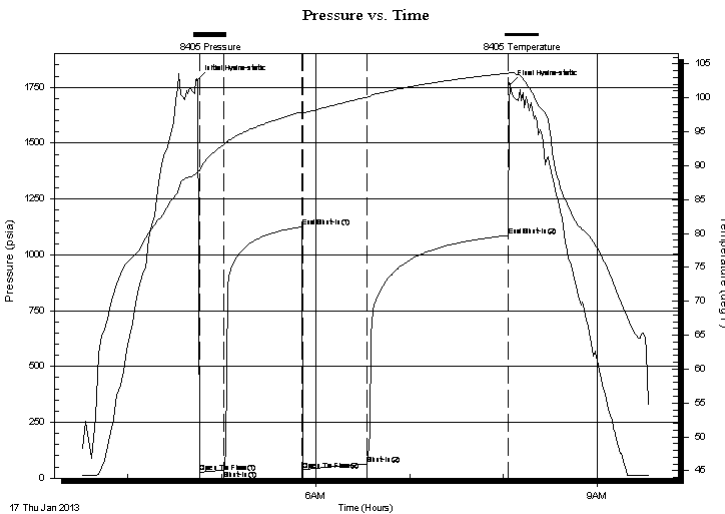
Start Time: 03:30:00 End Time: 09:33:30

Time On Btm: 2013.01.17 @ 04:44:30

Time Off Btm: 2013.01.17 @ 08:04:00

TEST COMMENT: 1st Open 15 minutes Fair building blow built to 2.5
1st Shut in 60 minutes No blow back.
2nd Open 45 minutes Fair building blow blew 3 inches.
2nd Shut in 90 minutes No blow back

PRESSURE SUMMARY



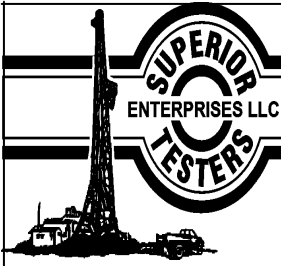
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1783.45	89.07	Initial Hydro-static
1	25.26	89.20	Open To Flow (1)
17	35.90	93.14	Shut-In(1)
67	1125.28	97.89	End Shut-In(1)
67	36.97	97.71	Open To Flow (2)
108	62.72	100.08	Shut-In(2)
199	1086.74	103.61	End Shut-In(2)
200	1762.35	103.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
68.00	Water 90%Water 10% Mud	0.95

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company
 9431 Central Suit 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

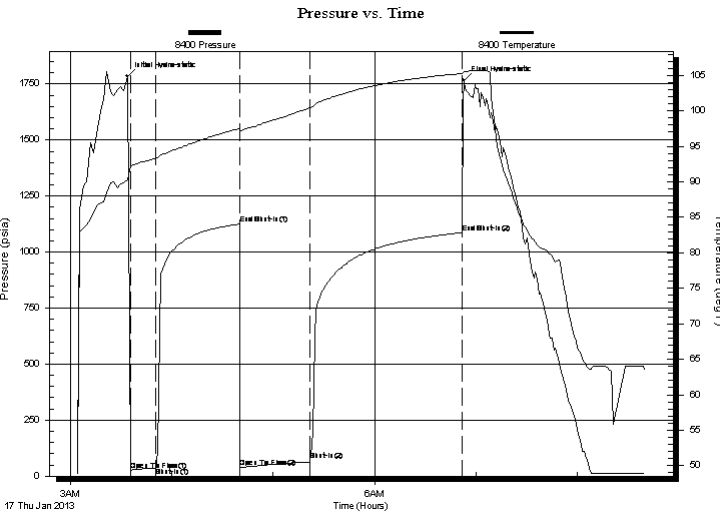
22-17-15w-Barton
Menzoer 1-22
 Job Ticket: 17408 **DST#: 8**
 Test Start: 2013.01.17 @ 03:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:45:30
 Time Test Ended: 09:33:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-45
 Interval: **3576.00 ft (KB) To 3583.00 ft (KB) (TVD)**
 Total Depth: 3583.00 ft (KB) (TVD)
 Reference Elevations: 1992.00 ft (KB)
 1984.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8400 Outside
 Press@RunDepth: 1086.27 psia @ 3580.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.01.17 End Date: 2013.01.17 Last Calib.: 2013.01.17
 Start Time: 03:03:00 End Time: 08:40:16 Time On Btm: 2013.01.17 @ 03:33:23
 Time Off Btm: 2013.01.17 @ 06:52:53

TEST COMMENT: 1st Open 15 minutes Fair building blow built to 2.5
 1st Shut in 60 minutes No blow back.
 2nd Open 45 minutes Fair building blow blew 3 inches.
 2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY

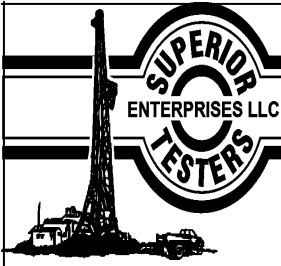
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1783.71	90.24	Initial Hydro-static
2	27.77	92.23	Open To Flow (1)
17	36.95	93.28	Shut-In(1)
67	1124.84	97.53	End Shut-In(1)
67	38.09	97.15	Open To Flow (2)
109	71.49	100.47	Shut-In(2)
199	1086.27	105.27	End Shut-In(2)
200	1765.93	105.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
68.00	Water 90%Water 10% Mud	0.95

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company

22-17-15w-Barton

9431 Central Suit 100
Wichita Kansas 67206

Menzoer 1-22

Job Ticket: 17408

DST#: 8

ATTN: Frank Greenbaum

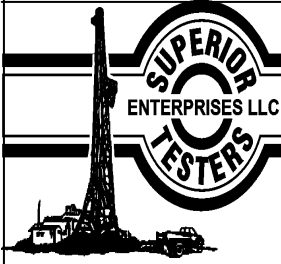
Test Start: 2013.01.17 @ 03:30:00

Tool Information

Drill Pipe:	Length: 3566.00 ft	Diameter: 3.80 inches	Volume: 50.02 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: 62000.00 lb
			<u>Total Volume: 50.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3576.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	30.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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

Shut-In Tool	5.00			3558.00	
Hydraulic Tool	5.00			3563.00	
Safety Joint	2.00			3565.00	
Jars	6.00			3571.00	
Packer	5.00			3576.00	23.00 Bottom Of Top Packer
Packer	0.00			3576.00	
Anchor	2.00			3578.00	
Recorder	1.00	8405	Inside	3579.00	
Recorder	1.00	8400	Outside	3580.00	
Bullnose	3.00			3583.00	7.00 Bottom Packers & Anchor
Total Tool Length:	30.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company

22-17-15w-Barton

9431 Central Suit 100
Wichita Kansas 67206

Menzoer 1-22

Job Ticket: 17408

DST#: 8

ATTN: Frank Greenbaum

Test Start: 2013.01.17 @ 03:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 8.00 in³

Resistivity: ohm.m

Salinity: 9900.00 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
68.00	Water 90%Water 10% Mud	0.954

Total Length: 68.00 ft Total Volume: 0.954 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

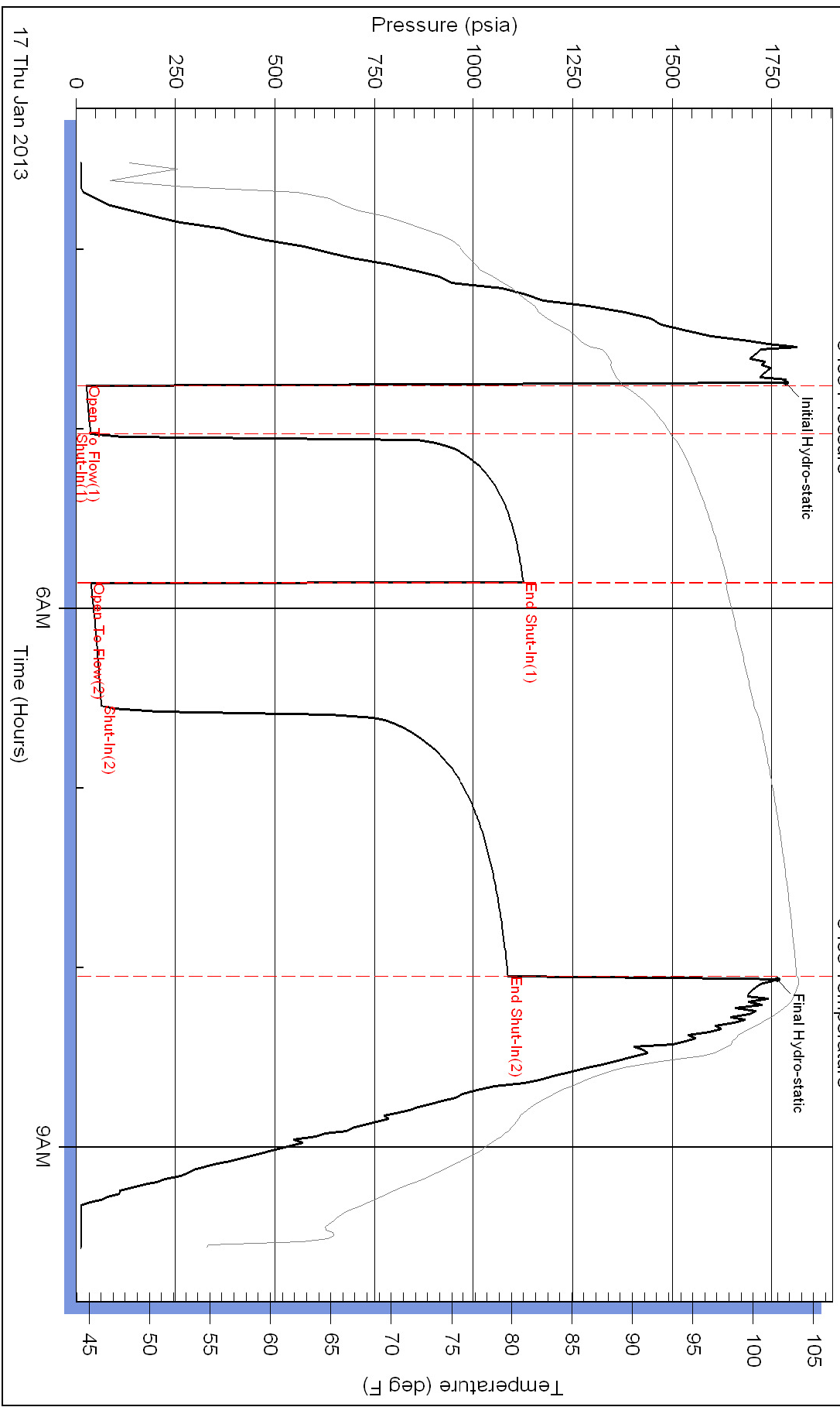
Serial #:

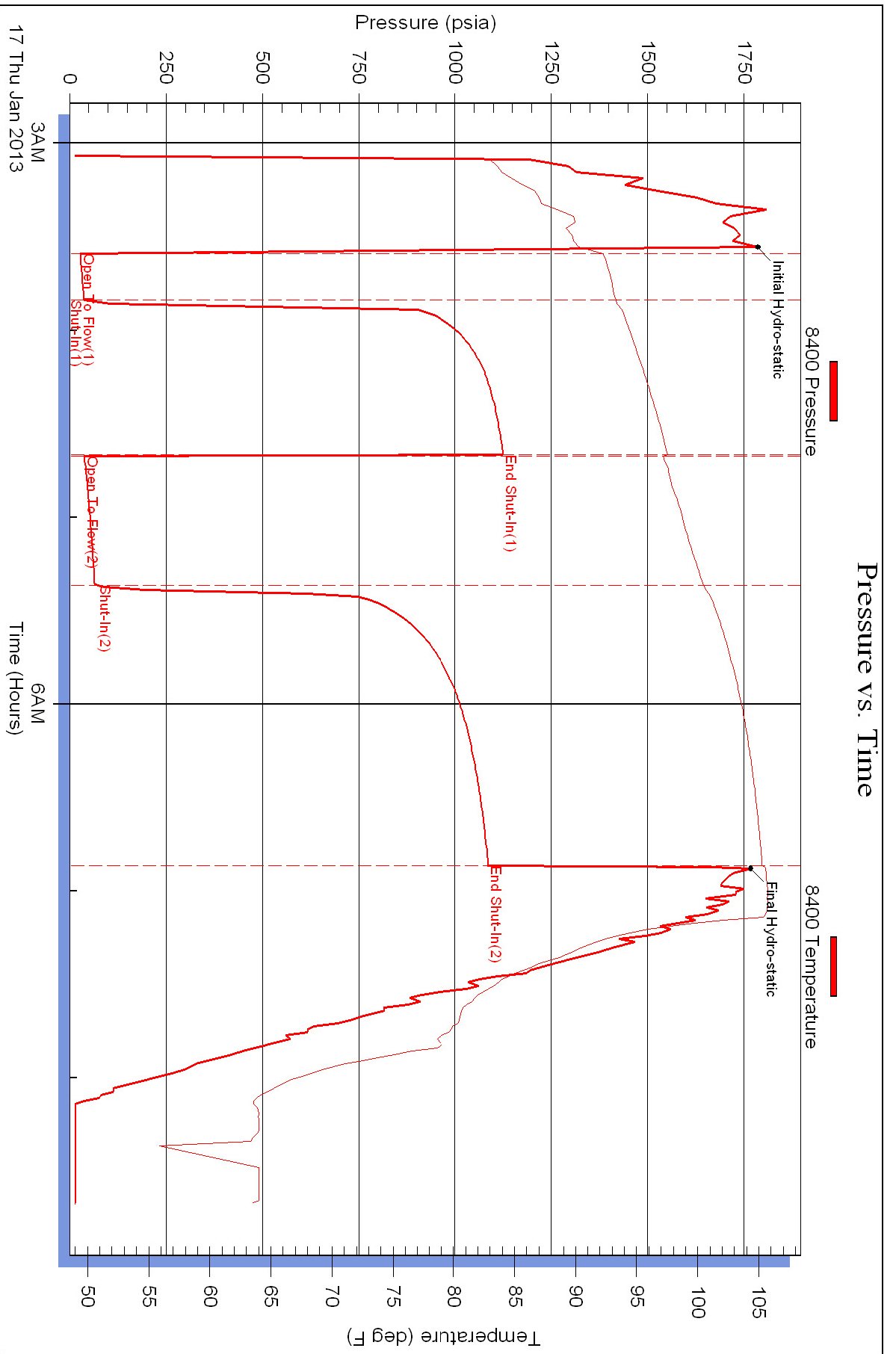
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

March 21, 2013

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

Re: ACO1
API 15-009-25800-00-00
MENZER 1-22
SE/4 Sec.22-17S-15W
Barton County, Kansas

Dear Production Department:

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

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

Respectfully,
Franklin R. Greenbaum



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 07713 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>01-18-13</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>MENZER</u> 1-22 WELL NO.							
ADDRESS		COUNTY <u>BARTON</u> STATE <u>KS</u>							
CITY STATE		SERVICE CREW <u>Sullivan, weight, Patric</u>							
AUTHORIZED BY		JOB TYPE: <u>new 4 1/2 hole string</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>33708-20970</u>	<u>35</u>						<u>1-18-13</u>		<u>8:30</u>
<u>19960-81010</u>	<u>35</u>					ARRIVED AT JOB		AM	<u>12:30</u>
<u>37900</u>						START OPERATION		AM	<u>4:45</u>
						FINISH OPERATION		AM	<u>5:20</u>
						RELEASED		AM	<u>6:15</u>
						MILES FROM STATION TO WELL			<u>70</u>

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

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	AA-2' cont	SK	135		
CP 103	6' x 4' x 1/2"	SK	75		
CC 102	Cell/Fake	lb	34		
CC 105	C-41	lb	32		
CC 111	SALT	lb	605		
CC 127	Fluid loss	lb	127		
CC 201	gilsonite	lb	1350		
CF 606	LATCH down Plus a Ratchet 4 1/2"	SA	1		
CF 1250	Auto fill float stop	SA	1		
CF 1650	Turbolizer	SA	8		
CF 1900	BASKET	SA	1		
C 154	Super Flush	gal	500		
C 100	Duplex mix	mi	70		
C 101	Heavy Spent mix	mi	140		
C 113	Bulk Admix	Ton	672		
CE 204	Depth charge	SA	1		
CE 240	Blend-on mix	SK	210		
CE 301	Chem. Sealer (Parted)	SK	1		
CE 304	Open Circuit Parted	SA	1		
3003	Spillproof Supplement	SA	60		
3002	Spillproof Supplement	SA	60		
SUB TOTAL					
					DLS
SERVICE & EQUIPMENT				%TAX ON \$	
MATERIALS				%TAX ON \$	
TOTAL					

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE Robert Sullivan THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: John G. Holl
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____



services, L.P.

TREATMENT REPORT

Lease No. 7.9. HOLL Date 01-19-13
 Well # 1-22 County BARTON State KS
 Field Order # 7713 Station PRATT KS Casing 4 1/2 Depth 3717'
 Type Job CNW 4 1/2 Lowsky Formation 22-17-15 Legal Description 22-17-15

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
<u>4 1/2</u>				Pre Pad	Max			5 Min.
Depth <u>3717'</u>	Depth	From	To	Pad	Min			10 Min.
Volume <u>59</u>	Volume	From	To	Frac	Avg			15 Min.
Max Press <u>1500</u>	Max Press	From	To		HHP Used			Annulus Pressure
Well Connection <u>PC</u>	Annulus Vol.	From	To		Gas Volume			Total Load
Plug Depth <u>3702'</u>	Packer Depth	From	To	Flush				

Customer Representative _____ Station Manager DAVE SCOTT Treater Robert Sullivan

Service Units	<u>37900</u>	<u>33708</u>	<u>20920</u>	<u>19960</u>	<u>27010</u>				
Driver Names	<u>Sullivan</u>	<u>Wright</u>		<u>BATC</u>					

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
<u>12:30</u>					<u>on the safety meeting</u>
					<u>RUN 89 JTS 4 1/2 10.5 CSG</u>
<u>2:30</u>					<u>Casing on Bottom</u>
<u>2:40</u>					<u>Hook Rig circ.</u>
<u>2:45</u>	<u>300</u>		<u>5</u>	<u>4</u>	<u>84 SPACER</u>
			<u>12</u>		<u>14 SUPER FLUID</u>
			<u>5</u>		<u>14 SPACER</u>
			<u>7</u>	<u>4.5</u>	<u>MIX SEQUENCER cont 20SK</u>
			<u>34</u>		<u>MIX 4 1/2 cont 135SK</u>
					<u>cont mixed shut down WASH pump power.</u>
					<u>Release Plug</u>
				<u>5.5</u>	<u>at Deep</u>
	<u>300</u>		<u>30</u>		<u>Limit PSI</u>
					<u>Slow Rate</u>
<u>5:20</u>	<u>1250</u>		<u>59</u>	<u>3.5</u>	<u>Plug down</u>
					<u>plug 2H up 200'</u>
					<u>plug 10H up 200'</u>
					<u>JOB Complete</u>
					<u>Thank you</u>



BASICSM
ENERGY SERVICES

PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 602-672-1201

11400
FIELD SERVICE TICKET

1718 07095 A

DATE _____ TICKET NO. _____

DATE OF JOB <i>1-8-13</i> DISTRICT <i>Kansas</i>		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 <i>FG Holl Co. LLC.</i>		LEASE <i>Menzer #1-22</i> WELL NO.:							
ADDRESS		COUNTY <i>Barton 22-17-13</i> STATE <i>Ks</i>							
CITY STATE		SERVICE CREW <i>Allen</i>							
AUTHORIZED BY		JOB TYPE: <i>8 5/8" Surface</i> <i>CNW</i>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<i>78443 PH</i>	<i>1</i>					<i>1-8-13</i>	<i>1-8-13</i>	<i>AM</i>	<i>115</i>
<i>19889-19843</i>	<i>1</i>					ARRIVED AT JOB	<i>1-8-13</i>	<i>AM</i>	<i>0415</i>
<i>19960-7376</i>	<i>1</i>					START OPERATION	<i>1-8-13</i>	<i>AM</i>	<i>1050</i>
						FINISH OPERATION	<i>1-8-13</i>	<i>AM</i>	<i>1130</i>
						RELEASED	<i>1-8-13</i>	<i>AM</i>	<i>1230</i>
						MILES FROM STATION TO WELL			<i>70-mile</i>

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

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CF101	A-Con Blend Cement	SK	200		
CF1006	Common Cement	SK	200		
CC102	Cell Flake	lb	100		
CC109	Calcium Chloride	lb	940		
CF105	Top Rubber cement Plug 8 5/8"	EA	1		
CF1753	Cart 8 5/8" Blue	EA	3		
F160	Unit mileage chg. P.U.	Mi	70		
F101	Heavy Equip mileage	Mi	140		
F113	Bulk Delivery Charge	TM	1316		
CE301	Depth Charge 501-1000'	4-hr	1		
CE240	Bleeding + mixing Service chg	SK	400		
CE504	Plug container Utilization chg Job	Job	1		
S003	Service Supervisor First 8 hrs	EA	1		

SUB TOTAL

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE *Allen Wood* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Deon Vasquez*
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

BASIC

energy services, L.P.

TREATMENT REPORT

Customer FG Hall Co. LLC	Lease No.	Date 1-8-13
Lease MENZER	Well # 1-22	
Field Order # 07095	Station Pratt KS	Casing 8 5/8
	Depth 1033	County Barton
Type Job 8-5/8" Surface	Formation CNW	Legal Description TD 1033 22-17-15

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 8 5/8	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
		200		SKS A-CON @ 12#			5 Min.	
Depth 1033	Depth	From	To	Pre Pad	Max		CC 1/4" C.F. @ 15.6#	
			200	SKS COM. 2%	Min		10 Min.	
Volume 64	Volume	From	To	Pad	Avg		15 Min.	
Max Press # 400#	Max Press	From	To	Frac	HHP Used		Annulus Pressure	
Well Connection PC	Annulus Vol.	From	To		Gas Volume		Total Load	
Plug Depth 1013	Packer Depth	From	To	Flush Disp H 20				

Customer Representative Dean TP	Station Manager Scotty	Treater Allen
Service Units 28443 19889 19843 19960 73765		
Driver Names Allen Edmundo Steve Young		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:15 PM					on Loc. Discuss Safety, Setup Plan Job
					Rig Drilling @ 996'
5:45					Start out of Hole - 'Short Trip'
6:30					Start BACK IN Hole w/ Bit
7:05					Back in Hole w/ Bit + CIR.
7:45					Start out of Hole w/ Bit
8:20					out of Hole, Rig up to RW 8 5/8"
					Casing 23#
9:00					St. 8 5/8" csg. Cent 900' - 450' - 40'
10:25					Casing @ 1033' CIR w/ Rig
10:50	200#		88	5 1/2	Mix 200SKS A-CON @ 12#
10:50				5 1/2	Mix 200SKS common 20%
					CC, 1/4" C.F. @ 15.6#
			43		Finish mit
					Release Top Rubber Plug 8 5/8"
11:20				5 1/2	start Disp.
11:30	300#		64	3	Plug down
	0#				Shut IN @ well Circ 29sk (mit)
					Release PSI To Truck
					wash up Equip. + Pack up
12:30					Job complete.
					thanks Allen, Eddie, Steve