



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
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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: _____

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

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

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

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

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

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

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	LENKNER 1-29
Doc ID	1075149

All Electric Logs Run

DIL
CDL/CNL
BHCS
Microresistivity
CPI
Fracfinder

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	LENKNER 1-29
Doc ID	1075149

Tops

Name	Top	Datum
Herrington	2158	-229
Winfield	2216	-287
Towanda	2282	-353
Ft. Riley	2331	-402
B/Florence	2418	-489
Kinney Ls	2438	-509
Wrefold	2472	-543
Council Grove	2495	-566

Summary of Changes

Lease Name and Number: LENKNER 1-29

API/Permit #: 15-007-23822-00-00

Doc ID: 1075149

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	02/23/2012	02/27/2012
Date of First or Resumed Production or SWD or Enhr Producing Method Pumping	No	02/24/2012 Yes
Save Link	../kcc/detail/operatorEditDetail.cfm?docID=1071889	../kcc/detail/operatorEditDetail.cfm?docID=1075149



CONFIDENTIAL

WELL COMPLETION FORM

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

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: _____



1071889

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
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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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	LENKNER 1-29
Doc ID	1071889

All Electric Logs Run

DIL
CDL/CNL
BHCS
Microresistivity
CPI
Fracfinder

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	LENKNER 1-29
Doc ID	1071889

Tops

Name	Top	Datum
Herrington	2158	-229
Winfield	2216	-287
Towanda	2282	-353
Ft. Riley	2331	-402
B/Florence	2418	-489
Kinney Ls	2438	-509
Wrefold	2472	-543
Council Grove	2495	-566



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

Well Name: LENKNER NO. 1-29
Location: SEC 29-T30S-R 13 W
License Number: 15-007-23,822-00-00
Spud Date: 12-26-2011
Surface Coordinates: 990' FWL,2400' FNL
90' S. OF SE SW NW
Bottom Hole Coordinates: VERTICAL
Region: BARBER CO
Drilling Completed: 1-9-2012
Ground Elevation (ft): 1921' K.B. Elevation (ft): 1929'
Logged Interval (ft): 2100' To: 4950' Total Depth (ft): 4950'
Formation: KINDERHOOK CHRT,VIOLA LS AND CHRT
Type of Drilling Fluid: NATIVE MUD TO 2720'/CHEMICAL TO TD
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, Suite 100
Wichita, Kansas 67206

DRILLING CONTRACTOR:

DUKE RIG #8

Double derrick; drill pipe 4.5' X H (16.6#); collars 6.25 x2.25 x 357.68'; Bit; 7 7/8, Reed HP52, 3-14's; Reference datum 8 ft above ground level. Poor Boy's (Martin- Decker) mechanical geologist.

CIRCULATION SYSTEM:

Pump Make: EWCO,Pump model: 14W400, liner size 6 ,stroke 14. Starch mud @ 1800' to 3300', Chemical mud @ 3300' to TD
Mud/Co/Service Mud, Inc.-RICK HUGHES-Great Bend, Ks-620-792-5425

GAS DETECTION SYSTEM:

MBC Well Logging and Leasing -Analog Gas Detection.

OPEN HOLE LOGS:

CNL/CDL,DIL/MEL,BHCS,GAMMA RAY
NO FILTERS, HI RES TO B/KC
FRAC FINDER AND DOLOMITE MATRIX OVER ARBUCKLE TO TD

SURFACE CASING

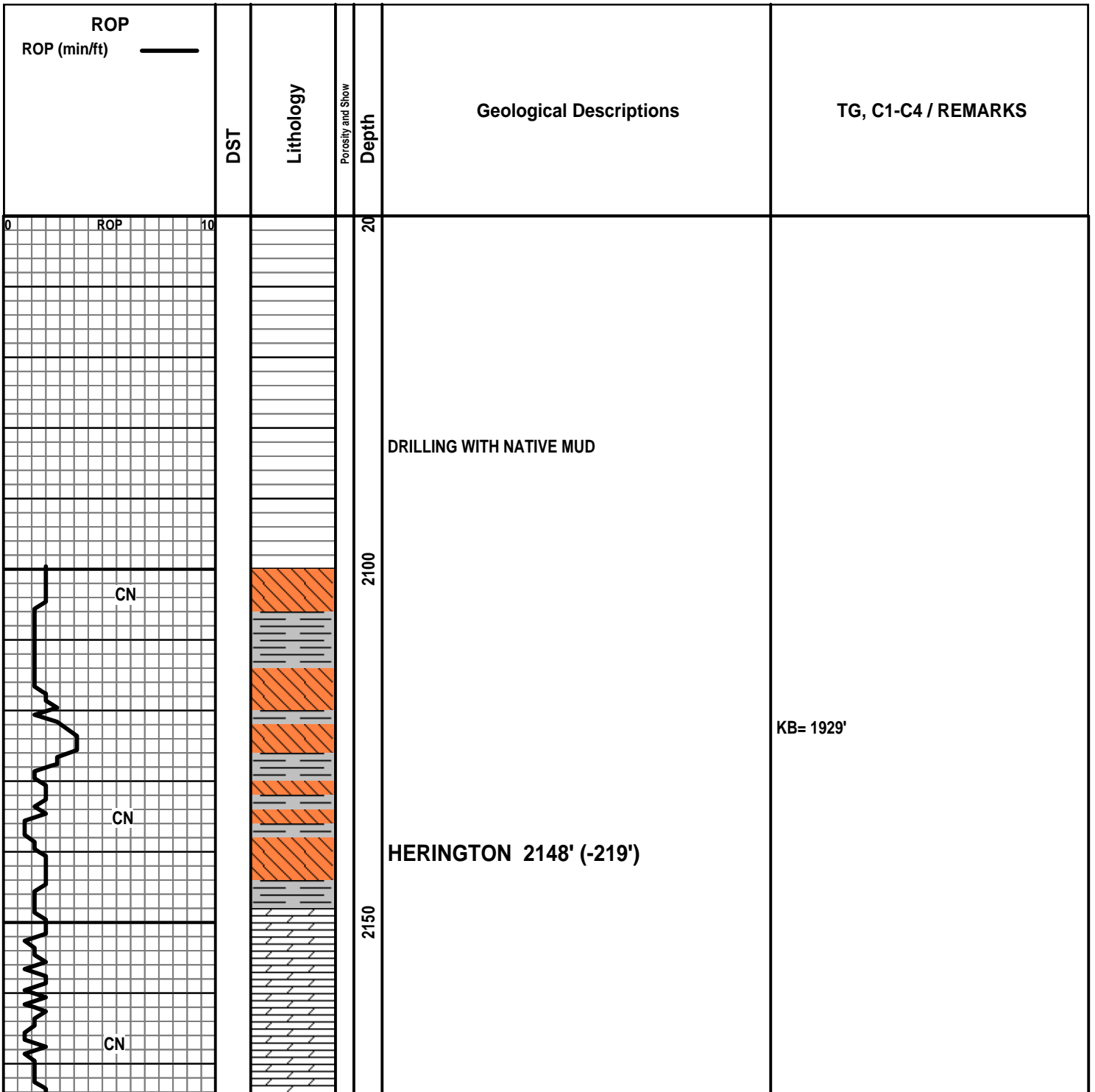
SURFACE CASING 8 5/8 IN SET AT 1025'
CMT 400 SAXS
PRODUCTION CASING 5 1/2 IN SET AT 3945'
CMT 180 SAXS

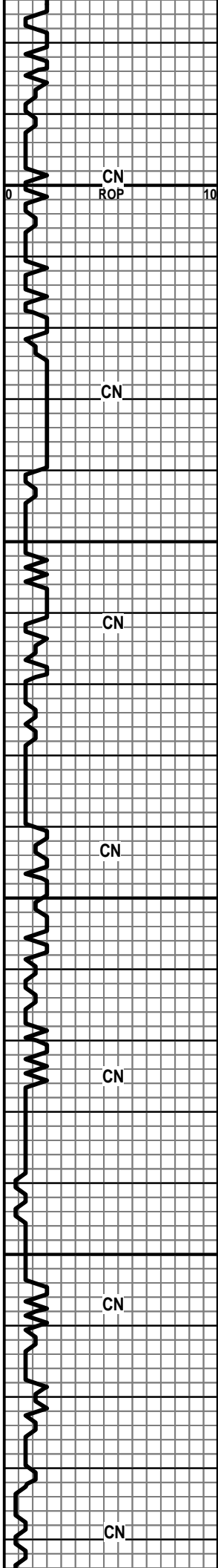
COMPLETION

PRODUCTION CASING SET IN THE ARBUCKLE

WELLSITE GEOLOGIST:

RENE HUSTEAD
600 N. WINWOOD ST.
GARDNER, KANSAS 66030
PHONE (913) 208-3390





CN
ROP 10

2200

WINFEILD 2216' (-287')

CN

2250

TOWANDA 2278' (-349')

CN

CN

2300

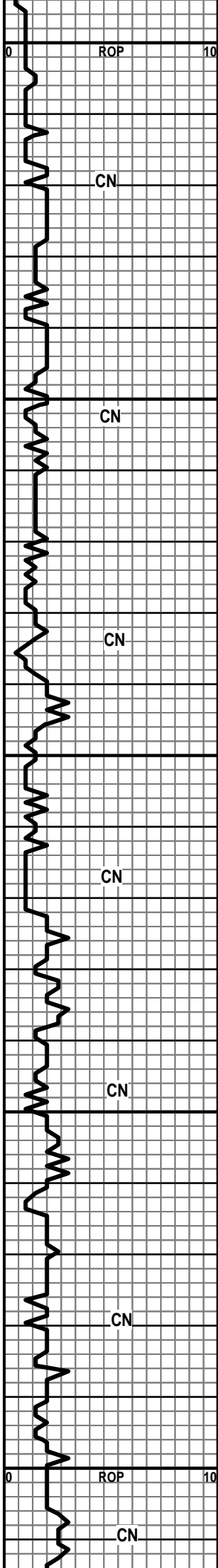
FT. RILEY 2328' (-399')

CN

CN

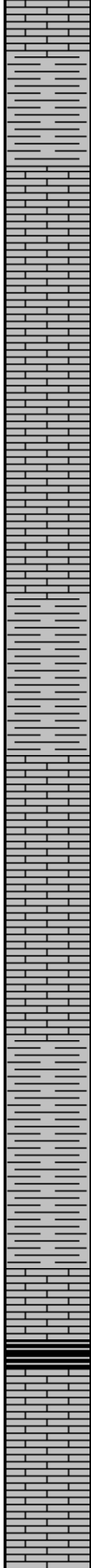
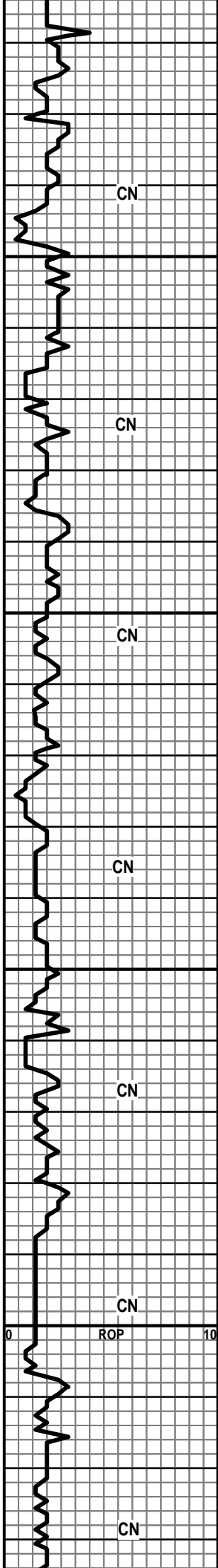
2350

CN



2400
2450
2500
2550
2600

COUNCIL GROVE 2496' (-567')



2650

2700

2750

2800

SH-GRY-BLKY-LMY

RED EAGLE 2792' (-863')

LS-CRM-F-XLN/GRN-BRIT-FOSS-SHELLS-CHLKY
IP-V-F-PYR XLS-NO VIS SHOW

SH-BLK-CARB

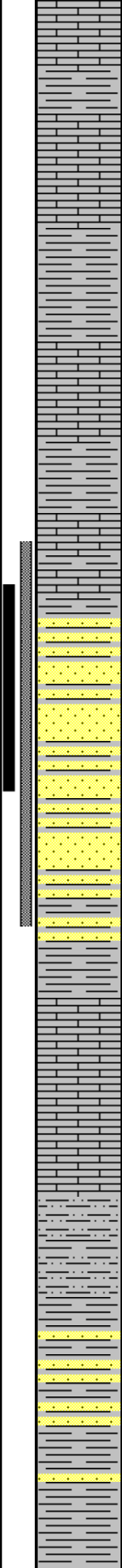
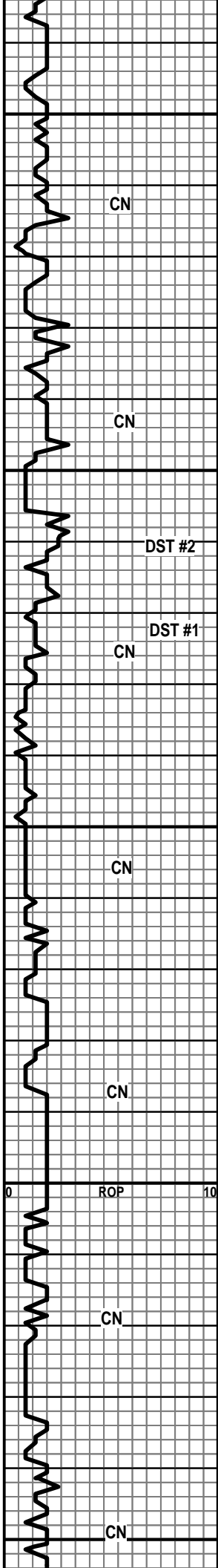
LS-CRM-V-F-GRN-HD-TR FOSS FRAGS-NO VIS
POR-NO VIS SHOW

LS-CRM-F-XLN-HD-DNS TR FOSS

DIS-PLACED NATIVE MUD TO CHEMICAL @
2720'

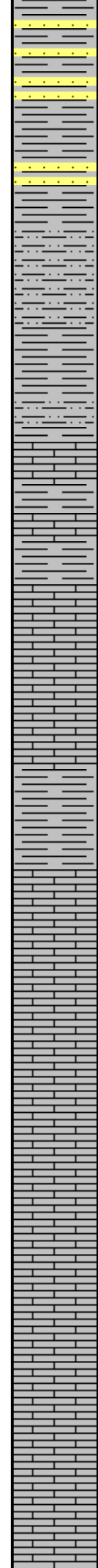
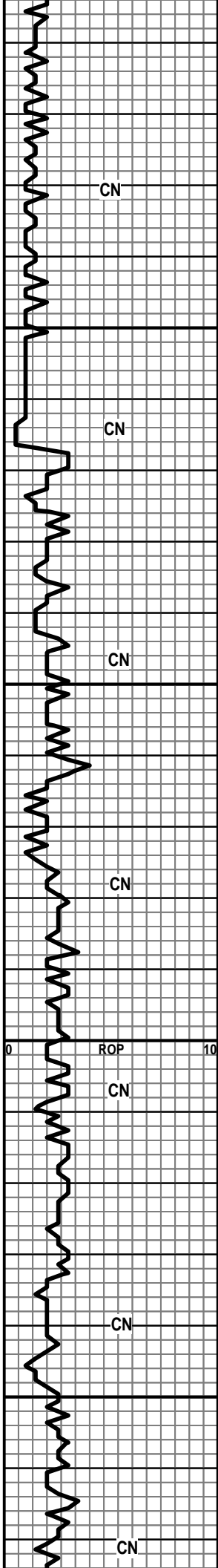
MUD DATA @ 2790'
WT. 8.7
VIS 46

MUD DATA @ 2840'
WT. 8.8
VIS 41



2850
 LS-GRY-F-XLN-CHRTY-HD-DNS
 SH-LT GRY-SFT-GUMMY
 LS-OFF WHT W/ BLK SPECS-F-XLN-BRIT-OOL-FOSS FRAGS-NO VIS POR
 SH-GRY-GRN-SPLNTY-FOSS-FUS
 LS-LT BRN-V-F-XLN-HD-FOSS-OOL-DNS-NO VIS SHOW
 SH-DK GRY-SPLNTY
 2900
ONAGA 2918' (-989')
 SS-FRSTY GRY-V-F-GRN-FRI TO TT- RNDED-WELL SRTED-SLI TR CALC CMT-SH LT GRY IMBD IP-TR V-F-MICA
 SLTSS-FRSTY GRY-F-GRN-MICA-HEM-SHLY
 2950
 SS-FRSTY GRY-F-QRTZ GRN-FRI TO TT-RNDED-FR SRTED-TR CALC CMT-MICA-HEM-TR FOSS
WABAUNSEE 2974' (-1045')
 POOR SAMPLE
 3000
 SLTSS-FRSTY GRY-F-GRN-SHLY-MICA-HEM
 SS-TRANS-F-QRTZ GRN-TT-RNDED-WELL SRTED-TR CALC CMT-TR GLAU IMBD-TR INTER-GRN POR
 SH-GRY-SFT-GUMMY
 SH-DK GRY-SPLNTY
 3050

FIL 8.8
 MUD DATA @ 2849'
 WT. 8.8
 VIS 41
 STRAP
 2923.55 STRAP
 2925.97 BOARD
 STRAP SHORT TO BOARD 2.42
 DST #1
 2916'-2945'
 REC 30 FT DRILLING MUD
 IBLW-WK BLDING BLW TO 2 INCHES IN 15 MIN
 FBLW-WKBLW BLT TO 1 INCH IN 15 MIN
 15/30/15/30
 SIP-1373.61 TO 884.16
 IFF-46.02-64.02
 FFP-51.72-60.91
 HP-1401.13 TO 1376.62
 CIRC @ 2944'
 CIRC @ 2964'
 MUD DATA @ 2964'
 WT. 9.0
 VIS 47
 FIL 9.0
 DST #2
 2910'-2964'
 REC-35 FT DRILLING MUD
 IBLW-WK BLDING BLW 2 INCHES IN 15 MIN
 FBLW-WK BLW 1.5 INCHES IN 15 MIN
 15/30/15/30
 SIP-1001.86 TO 956.38
 IFF-55.87-65.40
 FFP-64.88-80.16
 HP-1316.77-1309.16
 MUD DATA @ 3025'
 WT. 9.0
 VIS 47



SS-FRSTY WHT-F-GRN-QRTZ-TT-RNED-WELL
 SRTED-CALC CMT-TR GLAU

SH-LT GRY-SFT-GUMMY

SS A.A.

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

3100 SH-V-SFT-GUMMY

STOTLER 3116' (-1187')

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

SH-GRY-GRN-SPLNTY

LS-CRM-F-GRN-FOSS-SLI CHLKY-NO VIS POR/DNS

LS A.A.

3150 LS-LT BRN-F-XLN-BLOCKY-HD-DNS

SLTSS-FRSTY GRY-F-GRN-SHLY-MICA-HEM-
 SH-GRY-SFT-SLTY

TARKIO 3176' (-1247')

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

LS-GRY-TN-F-XLN-DNS

3200 LS-TN-F-XLN-FOSS-SHELLS-HD-DNS TR CHLK IN
 TRAY

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

BERN 3234' (-1305')

SAMPLE: smalls-LS-CRM-F-XLN-BRIT-TR CHLK-TR
 FOSS-NO VIS FLOR-NO VIS POR

LS-CRM-F-XLN-CHLKY-BRIT-TR FOSS-PR TO FR PP
 POR-NO VIS FLOR

3250 LS-CRM W /BLK SPECS-HD-FOSS-TR SM OOL-DNS

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

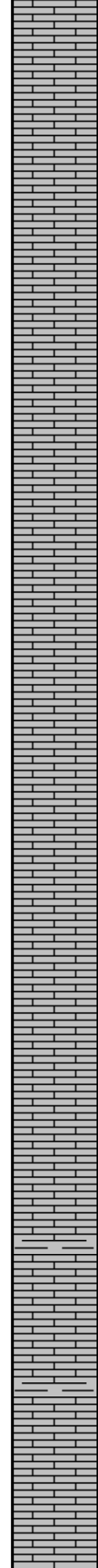
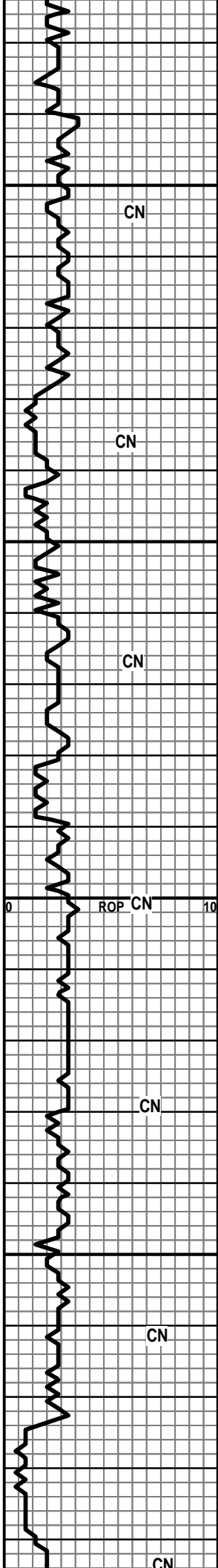
MUD DATA @ 3154
 WT. 9.0
 VIS 45

MUD DATA @ 3177'
 WT. 9.0
 VIS 44

MUD DATA @ 3238
 WT. 9.0
 VIS 44

HW 20 UNIT GAS INCRS
 CHROMO- 20 UNIT GAS INCRS

CFS FOR SAMPLES AT 3260'
 NOTE: TOO WINDY TO TEST



LS-CRM-F-XLN-HD-FOSS FRAGS-TR PYR XLS

3300

LS-CRM-F-XLN-HD-FOSS-TR GLAU IMBD

LS-TN-F-XLN-BLOCKY-HD-DNS

LS-OFF WHT-F-XLN-CHLKY-SM OOL-TR PR SM
VUG/PP POR-NO VIS FLOR-NO VIS SHOW

LS-A.A. TR CHLKY

3350

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

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

LS A.A.

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

3400

LS-OF WHT-F-XLN-CHLKY-FOSS-DNS

LS-GRY-F-XLN-HD-FOSS-SHELLS-TR OOL-SH LT GRY
IMBD-DNS

SH-LT GRY-SFT-GUMMY-SLTY

TOPEKA 4339' (1510')

LS-GRY-F-XLN-HD TO BRIT-FOSS-NO VIS POR

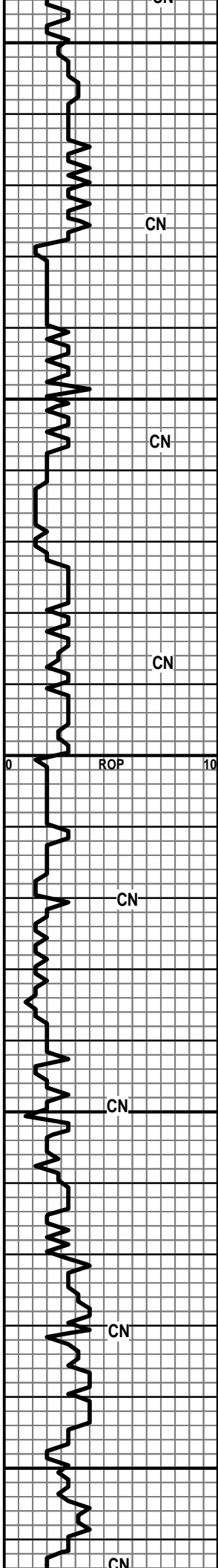
3450

SH-GRY-BLKY-LMY

LS-CRM/TN-F-GRN-HD TO BRIT-FOSS
FRAGS-OOL-DNS

LS-CRM-F-XLN-V-BRIT-CHLKY IP-OOL-FOSS
FRAGS-PR TO FR OOL-MOLDIC POR/PP/SM VUG-NO
VIS FLOR-NO VIS CUT

LS-CRM-F-XLN-BRIT-OOL-FOSS-TR OOL-MOLDIC
POR-NO VIS FLOR-NO VIS SHOW



3500
3550
3600
3650
3700

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

LS-TN-V-F-XLN-V-OOL-HD-DNS W/ TR VUG POR

SH-GRY-SPLNTY-LMY

LS-GRY-F-GRN-BRIT-FOSS-FUSS-NO VIS POR-NO VIS FLOR

LS-TN-F-GRN-OOL-HD-DNS

LS-TN-F-XLN-OOL-FOSS-HD TO BRIT-POORLY DEV OOL-MOLDIC POR-NO VIS FLOR-NO VIS SHOW

SH-GRY-SPLNTY-PYR XLS IMBD

LS-TN-F-XLN-HD-V-FOSS-BLOCKY-TR FOSS VUG POR-NO VIS FLOR-NO VIS SHOW

SH-GRY-BLKY-LMY-W LG FOSS-FUSS

DEER CREEK 3614' (-1685')

LS-TN-F-XLN-BRIT TO HD-FOSS-FRAGS-CHLKY IP-DULL WHT MIN FLOR-NO VIS SHOW

SH-BLK-CARB

LS-OFF WHT-F-XLN-V-CHLKY-BRIT-NO VIS POR

SH-GRY-BLKY-FOSS

LS-OFF WHT-F-GRN-CHLKY-FOSS-DULL WHT MIN FLOR-NO VIS POR

LS-TN/TRANS-V-F-XLN-HD-SM FOSS FRAGS-CHRTY-DNS

LS-GRY-F-XLN-HD-DNS

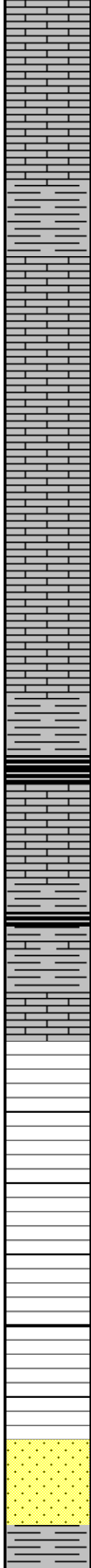
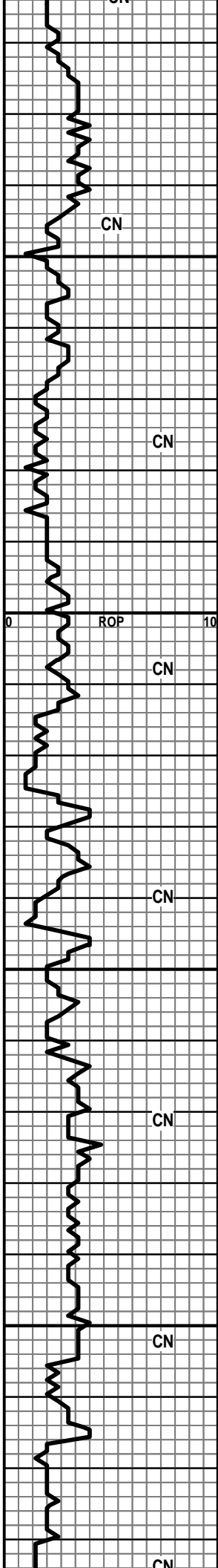
LS-OFF WHT-F-XLN-CHLKY-TR FOSS-TR RARE VUG POR TO NO VIS POR-DULL WHT MIN FLOR-NO VIS CUT

LS-CRM-F-GRN-CHKLY-TR FOSS-PR PP/VUG POR-TR FRAC-DULL MIN FLOR-NO VIS CUT

MUD DATA @ 3505'
WT 9.4
VIS 42
FIL 11.2

MUD DATA @3665'
WT. 9.3
VIS 50

MUD DATA @ 3205'
WT. 9.3
VIS 49



LS-OFF WHT/BRN MOTT-F-XLN-FOSS-HD-DNS-BRITE
 YEL/GLD FLOR-NO VIS CUT

 SH-GRN-GRY-SPLNTY
 3750
 LS-OFF WHT/GRY-F-XLN-TR FOSS-NO VIS POR-DULL
 WHT MINFLOR

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

 LS-GRY-F-XLN-HD-FOSS-OOL-SHLY-DULL MIN
 FLOR-NO VIS POR

 3800
 LS-TN-F-XLN/GRN-HD-TR FOSS-TR OOL-DULL WHT
 MIN FLOR-DNS

 SH-BLK-CARB

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

HEEBNER 3837' (-1908')

 SH-BLK-CARB

 3850
 SH-GRY-SFT-GUMMY W/ CHLK-V-SFT
TORONTO 3853' (-1924')

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

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

 SH-LT GRY-GUMMY

 LS-OFF WHT-F-XLN-HD-DNS TR FOSS-CHLK IN TRAY

 3900
 LS-TN-F-XLN-HD-FOSS FRAGS-DNS W CHRT-LT
 BRN-OPQ-FRSH

 LS-OFF WHT/LTBRN-TR FOSS-HD-DNS SCATT
 YEL/GLD FLOR IP TO DULL WHT MIN FLOR-NO VIS
 CUT

DOUGLAS SS 3916' (-1990')
 SS-FRSTY GRY-F-QRTZ GRN-TT TO FRI-RNDED-WELL
 SRTE-TR SH-MICA HEM-NO VIS FLOR-NO VIS CUT

 SH-GRY-SPLNTYW/ LS-DK BR-V-F-XLN-HD-DNS

MUD DATA @ 3800'
 WT. 9.4
 VIS 48

HW 37 UNIT GAS INCRS

HW 48 UNIT GAS INCRS

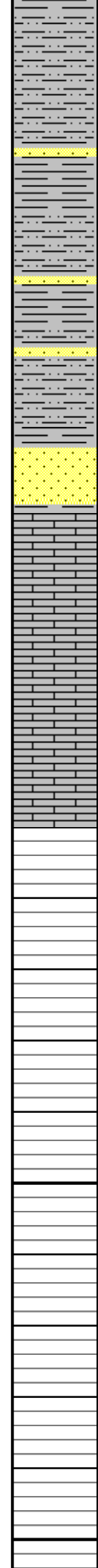
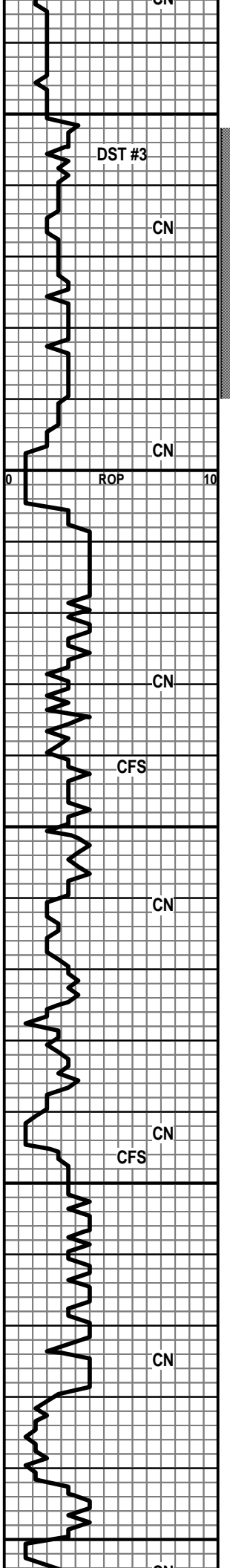
HW 20 UNIT GAS INCRS

MUD DATA @ 3859'
 WT. 9.3
 VIS 50

MUD DATA @ 3889'
 WT. 9.3
 VIS 47

MUD DATA @ 3920'
 WT. 9.4
 VIS 45

DST #3
 REC-600' -10%-MUD-90% H2O
 IBLW-STRNG BLW BOB IN 3 MIN
 FBLW-STRNG BLDING BLW BOB IN 4 MIN
 5/60/15/60



SH-LT GRY-V-SFT-SILTY W/ 2 PC SLTSS-FRSTY
 GRY-F-GRN-MICA-HEM

3950
 SHALES-GRY-DK GRY-SPLNTY-TO SFT AND GUMMY

SHALES AS ABOVE

SHALES-LT GRY-SFT-SILTY

SHALES A.A.

SLTSS-FRSTYGRY-V-F-GRN-V-SHLY-MICA-TR HEM

4000
 SS-FRSTY WHT-F-GRN-QRTZ-FRI TO TT-RNDED-WELL
 SRATED-FR INTER-GRN POR-NO VIS FLOR-TR
 GLAU-TR HEM

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

LS-TN-F-XLN-HD-TR FOSS-DNS W/ RARE FRAC POR

LS OFF WHT/TN-F-XLN-BRIT TO HD-FOSS-SHLY-TR
 FRAC POR-DULL WHT MIN FLOR-NO VIS CUT-GAS
 BUB

4050
 LS-DK BRN-V-F-XLN-HD-DNS W/ V-SM PYR XLS IMBD

LS-CRM-F-XLN-HD-SM PYR XLS-DNS

LS-OFF WHT-F-XLN-HD-DNS-TR FOSS CHLKY IP

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

LS-OFF WHT-F-XLN-FOSS-CHLKY-NO VIS POR-TR DK
 BLK STN-NO VIS FLOR-NO VIS CUT

LS-OFF WHTV--F-XLN-BLOCKY-HD-DNS TR FOSS
 -CHRTY

LS-OFF WHT-F-XLN-BRIT-V-CHLKY

4100
 LS-OFF WHT/GRY-F-XLN-HD-TR FOSS-DNS

LS A.A.

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

LS-OFF WHT-F-XLN-BRIT-FOSS FRAGS-PR PP/SM
 VUG POR-MOSTLY CHLKY-DULL WHT MIN FLOR-NO
 VIS CUT

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

4150
 LS A.A. MOSTLY CHLKY W/ TR SM VUG POR

3/00/13/00
 SIP-1482.78-1459.93
 IFP-98.79-179.78
 FFP-206.56-355.44
 HP-2026.77-1947.61

MUD DATA @ 3970'
 WT. 9.4
 VIS 50

MUD DATA @ 3987'
 WT. 9.4
 VIS 47
 FIL 9.6

HW 8 UNIT GAS INCRS
 CHROM 7 UNIT GAS INCRS

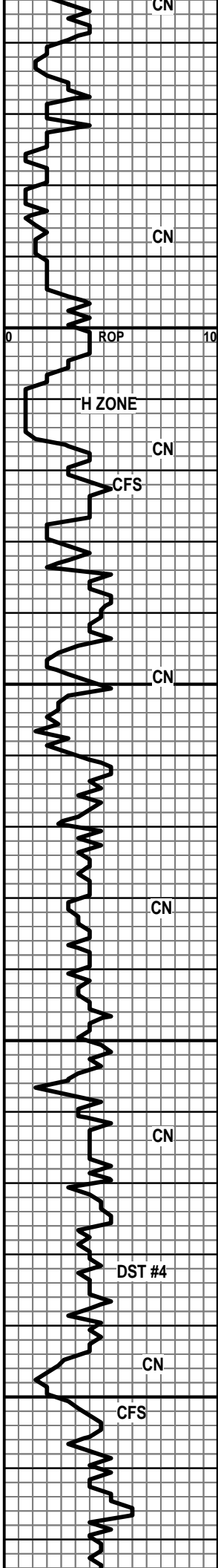
HW 20 UNIT GAS INCRS

SAMPLES IN POOR CONDITION RAISED
 VIS,CUT BACK PUMP PRESSURE

SAMPLES IN POOR CONDITION

MUD DATA @ 4082'
 WT. 9.2
 VIS 47

MUD DATA @ 4125'
 WT. 9.4
 VIS 47
 FIL 10.8



LS-TN-F-XLN-BRIT-TR FOSS TR SM VUG POR-MOSTL
CHLKY-DULL WHT MIN FLOR-NO VIS CUT

LS-OFF WHT-F-XLN-BRIT TO HD-CHLKY IP-TR PP/SM
VUG POR-DULL WHT MIN FLOR-NO VIS CUT

LS-TN-M-GRN-BRIT-FOSS-CHLKY-DULL WHT
FLOR-NO VIS CUT

4200

SAMPLES IN POOR CONDITION

1PC- LS-TN-F-XLN-SM OOL-V SM OOL-MOLDIC
POR-BRITE WHT FLOR-NO VIS CUT

FROM 4200' TO 4500' SAMPLES IN
CONDITION TOO POOR TO READ

MUD DATA @ 4233'
WT. 9.3
VIS 48

4250

SAMPLES IN POOR CONDITION

MUD DATA @ 4250'
WT. 9.3
VIS 46

MUD DATA @ 4320'
WT. 9.2
VIS 52

4300

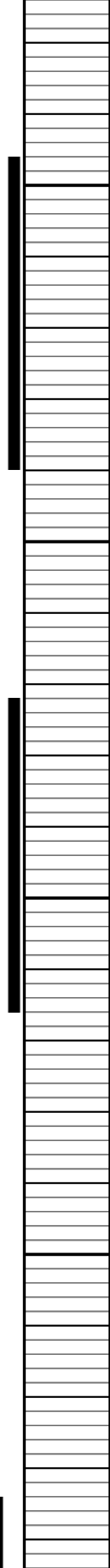
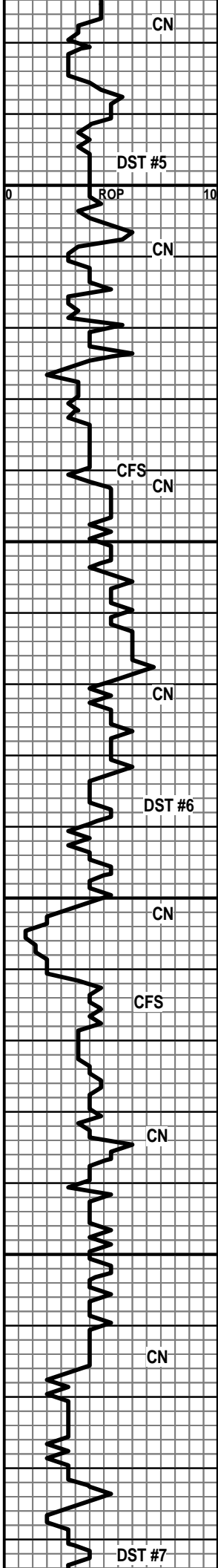
DST #4
REC-90 FT MUDDY H2O (95% MUD/5% H2O)
IBLW-FR BLDING BLW BLT TO 2 1/2 IN IN 15
MIN
FBLW-FR BLDING BLW BLT TO 4 1/2 IN IN
IN 30 MIN
15/60/30/60
SIP-1463.77-1357.38
IFP-55.42-61.19
FFP-75.58-87.33
HP-2214.65-2147.45

4350

SAMPLES IN POOR CONDITION

MUD DATA @ 4355'
WT. 9.4
VIS 50

MUD DATA @ 4356'
WT. 9.5
48



4400

B/KC

MARMATON

SAMPLES IN POOR CONDITION

4450

MISSISSIPPI

4500

CHRT-OFF WHT/GRY-OPQ-FRSH TR FRAC AND EDGE
POR-LT BRN STN-BRITE WHT FLOR-NO VIS CUT

LS-CRM-F-XLN-OOL-FOSS-HD-DNS W/ CHRT-OFF
WHT-OPQ-FRSH-W/ SH-TURQ-FRM

MISSING SAMPLE

SH-GRY-GRN-BLU-SPLNTY-TR SND

4550

LS-TN-F-XLN-HD-DNS BLOCKY

MOSTLY SHALES-GRY-GRN-SPLNTY

POOR SAMPLE

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

VIOLA 4590'

FIL 10.0
LCM 0

MUD DATA @ 4395'
WT. 9.3
VIS 56

DST #5
4396'-4440'
REC-4 FT MUD
IBLW-WK SURF BLW 1/2 INCH
FBLW-WK SURF BLW
15/30/15/30
SIP-67.04-58.71
IFP-50.16-51.37
FFP-51.81-52.55
HP-2223.68-2174.63

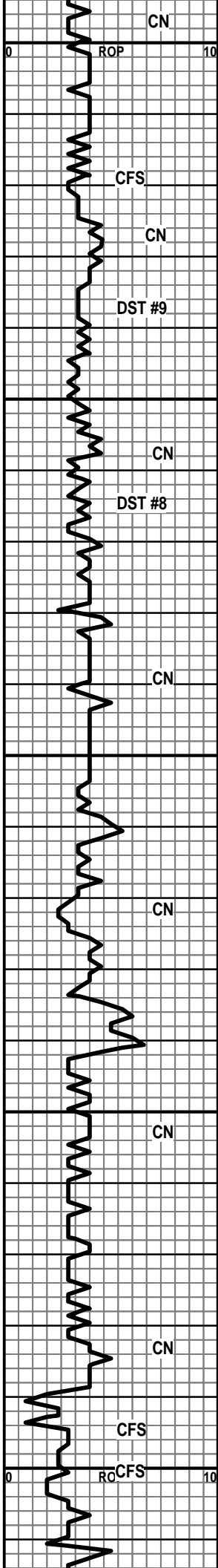
MUD DATA @ 4441'
WT. 9.3
VIS 45
FIL 10.0
LCM #1

DST #6
REC 10 FT MUD
4472'-4515'
IBLW-FR BLDING BLW BLT TO 6 1/2 INCHES
IN 30 MIN
FBLW-FR BLDING BLW BLT TO 4 1/2
INCHES THEN DIED
30/60/60/90
SIP-180.18-461.23
IFP-52.56-52.73
FFP-45.43-50.64
HP 2261.79-2161.01

MUD DATA @ 4520'
WT. 9.2
VIS 52
LCM #2

DST #7
REC-15 MUD
4584'-4620'
IBLW-WK BLW BLT TO 1 1/2 INCHES
FBLW-FR BLDING BLW BLT TO 6 AND 1/2
INCHES IN 15 IN
15/60/15/60
SIP-300.49-315.65
IFP-47.56-47.49
FFP-45.02-47.93
HP-2246.72-2213.65

MUD DATA @ 4590'
WT.9.1
VIS 56



4600
4650
4700
4750
4800

LS-CRM-F-M-GRN-BRIT TO HD-FOSS FRAGS-TR
CHLK-CHRT-OFF WHT-OPQ-FRSH-FR PP/INTER-GRN
POR-DULL WHT MIN FLOR-NO VIS CUT

LS-OFF WHT-V-F-XLN-HD-SNDY TEX-FOSS FRAGS-HD
-DNS

LS-OFF WHT-V-F-XLN-SNDY TEX-FR-SM VUG/PP
POR-LT BRN STN-1 PC-LT FLSH CUT WHEN CRSHED

LS-OFF WHT-M-GRN-TR FOSS-FR-INTER-GRN/SM VU
POR-MOSTLY DULL WHT FLOR-2 PC-BRITE
YEL/GLD-LT FLSH CUT TO RING CUT

LS-CRM TO BRN-F-GRN-HD-W/ CHRT-LT
BRN-OPQ-FRSH-TRACES OF BRITE WHT FLOR-NO
VIS CUT- PCS OF CHLK IN SAMPLE

LS-DK TN-V-F-XLN-TR FOSS FRAGS-HD-DNS W/
CHRT-OFF WHT-OPQ

LS A.A. W/ CHRT

SH-GRY-GRN-SPLNTY TR SH-DK GRY- SILTY-TR PYR
XLS IN TRAY

SS-FRSTY GRY-W/GILS-M-GRN-SUB-RND TO SUB ANG-FR
SRTED-FRI-CALC CMT-TR PP POR-NO VIS FLOR-NO VIS CUT

SS-FRSTY CLR-M-GRN-FRI-RND TO SUB-RND-PR SRTED-
INTER-GRN POR-NO VIS FLOR-NO VIS CUT

SS-FRSTY CLR-M-GRN-FRI-RND-WELL SRTED-DK
BRN STN-NO VIS FLOR-GD FLSH CUT

SHALES-BLU-SPLNTY

ARBUCKLE 4789' (

DOLO-DK TN-F-M-XLN-SUCRO-GD INTER-GRN POR-NO VIS
FLOR-NO VIS CUT 1 PC-LT FLSH CUT

VIS 50

MUD DATA @ 4619'
WT. 9.1
VIS 52
FIL 8.8
LCM #2

DST #8
REC-2 MUD
4658'-4698'
IBLW-WK SURF BLW REACHED 1/2 INCH IN
15 MIN
FBLW-VERY WK SURF BLW
15/60/15/60
SIP-637.11-105.96
IFP-46.66-48.31
FFP-48.1-48.79
HP-2309.62-2233.96
11 UNIT GAS INCRS

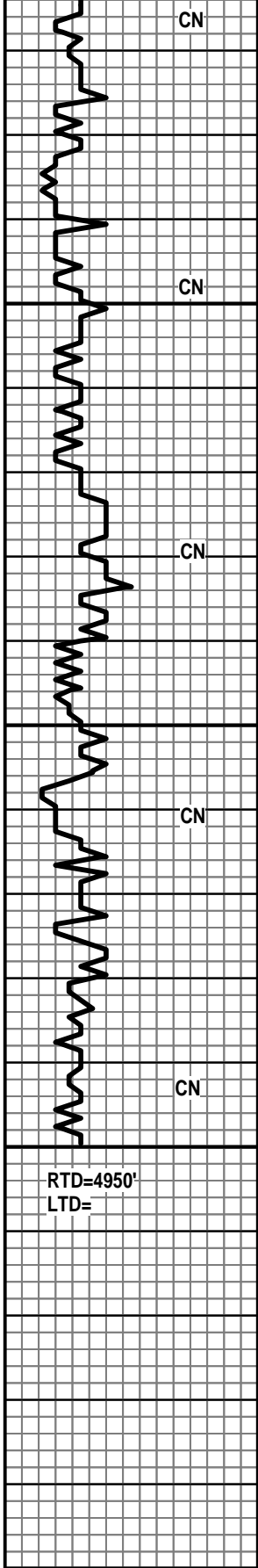
MUD DATA @4698
WT. 9.2
VIS 49
FIL 9.0
LCM #2

DST #9
4620-4698
REC 25 FT OF MUD
IBLW-WK BLW BLW 1 1/2 INCHES IN 30 SEC
FBLW-WK SURF BLW
30/60/30/60
SIP-251.38-166.49
IFP-68.42-71.28
FFP-76.23-75.27
HP-2311.68-2237.65

MUD DATA @ 4742'
WT. 9.2
VIS47
FIL 9.6
LCM #1

DST #10
4789-4800
REC 60 FT CLEAN OIL
60 FT OIL/MUD/H2O (30% OIL;10% MUD;60%
H2O)
120 FT MUD/H2O (5% MUD; 95% H2O) CHL
56,000
IBLW-FR BLDING BLW BLT 7.5 INCHES IN
15 MIN
FBLW-FR BLDING BLW BLT BOB IN 16 MIN
15/60/30/60
SIP-1718.38-1699.7C

SAMPLES MOSTLY SHALES



SAMPLES MOSTLY SHALES

DOLO-TN-F-XLN-SUCRO-HD-DNS

4850 POOR SAMPLES

4900 POOR SAMPLES

4950 POOR SAMPLES

00 POOR SAMPLES

IFP-35.24-128.51
 FFP-86.62-145.2
 HP-2367.95-2261.92

MUD DATA @ 4830
 WT. 9.0
 VIS 46
 FIL 10.4
 LCM 1 1/2

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 13, 2012

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

Re: ACO1
API 15-007-23822-00-00
LENKNER 1-29
NW/4 Sec.29-30S-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



DRILL STEM TEST REPORT

Prepared For: **F.G Holl**

9431 East Central Suite 100
Wichita Kansas 67206

ATTN: Frank Greenbaum

Lenkner 1-29

29-30s-13w-Barber

Start Date: 2011.12.30 @ 01:50:00

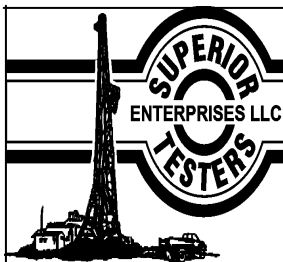
End Date: 2011.12.30 @ 06:56:30

Job Ticket #: 17245 DST #: 1

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

Printed: 2011.12.30 @ 22:45:26

F.G Holl
29-30s-13w-Barber
Lenkner 1-29
DST # 1
Indian Cave
2011.12.30



DRILL STEM TEST REPORT

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17245 **DST#: 1**
 Test Start: 2011.12.30 @ 01:50:00

GENERAL INFORMATION:

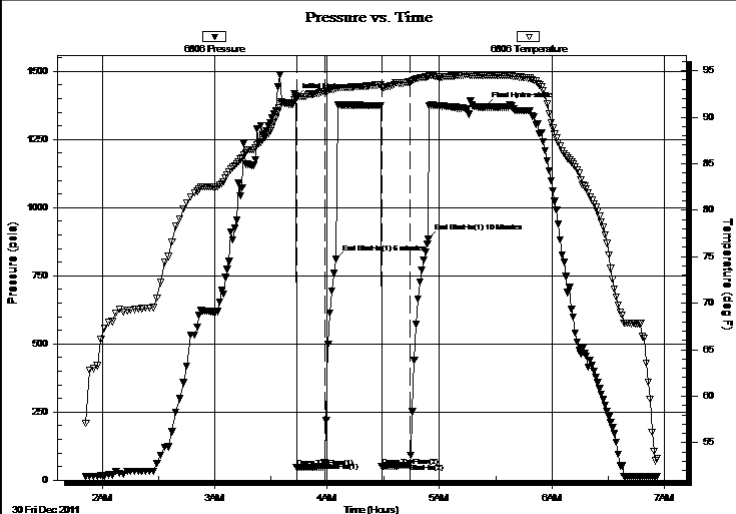
Formation: **Indian Cave**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 03:43:30 Tester: Dustin Ellis
 Time Test Ended: 06:56:30 Unit No: 3315-GB-140
 Interval: **2916.00 ft (KB) To 2945.00 ft (KB) (TVD)** Reference Elevations: 1921.00 ft (KB)
 Total Depth: 2945.00 ft (KB) (TVD) 1913.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6806

Inside

Press @ Run Depth: 60.91 psia @ 2941.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.12.30 End Date: 2011.12.30 Last Calib.: 2011.12.30
 Start Time: 01:51:00 End Time: 06:56:30 Time On Btm: 2011.12.30 @ 03:43:00
 Time Off Btm: 2011.12.30 @ 05:24:30

TEST COMMENT: 1st Open 15 minutes Weak building blow blew to 2 inches into bucket of water
 1st Shut in 30 minutes No blow back
 2nd Open 15 minutes Weak blow blew 1 inch in 5 gallon bucket of water
 2nd Shut in 30 minutes No blow back



PRESSURE SUMMARY

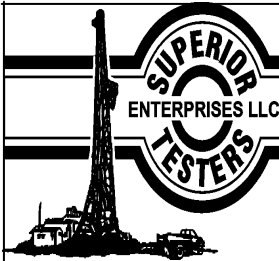
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1404.13	92.34	Initial Hydro-static
1	46.02	92.18	Open To Flow (1)
16	64.02	92.78	Shut-In(1)
22	809.83	93.05	End Shut-In(1) 6 minutes
46	51.72	93.21	Open To Flow (2)
61	60.91	93.83	Shut-In(2)
71	884.16	94.35	End Shut-In(1) 10 Minutes
102	1368.76	94.48	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

F.G Holl

29-30s-13w-Barber

9431 East Central Suite 100
Wichita Kansas 67206

Lenkner 1-29

ATTN: Frank Greenbaum

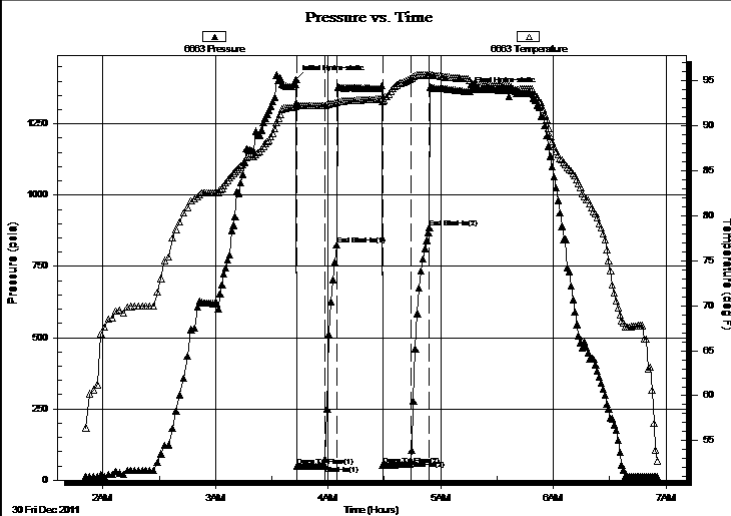
Job Ticket: 17245 **DST#: 1**
Test Start: 2011.12.30 @ 01:50:00

GENERAL INFORMATION:

Formation: Indian Cave			
Deviated: No Whipstock:		ft (KB)	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 03:43:30			Tester: Dustin Ellis
Time Test Ended: 06:56:30			Unit No: 3315-GB-140
Interval: 2916.00 ft (KB) To 2945.00 ft (KB) (TVD)			Reference Elevations: 1921.00 ft (KB)
Total Depth: 2945.00 ft (KB) (TVD)			1913.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair		KB to GR/CF: 8.00 ft

Serial #: 6663	Outside			
Press @ RunDepth: 886.19 psia @ 2942.00 ft (KB)		Capacity: 5000.00 psia		
Start Date: 2011.12.30	End Date: 2011.12.30	Last Calib.: 2011.12.30		
Start Time: 01:51:00	End Time: 06:56:00	Time On Btm: 2011.12.30 @ 03:43:00		
		Time Off Btm: 2011.12.30 @ 05:14:30		

TEST COMMENT: 1st Open 15 minutes Weak building blow blew to 2 inches into bucket of water
1st Shut in 30 minutes No blow back
2nd Open 15 minutes Weak blow blew 1 inch in 5 gallon bucket of water
2nd Shut in 30 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1404.63	92.54	Initial Hydro-static
1	47.34	92.26	Open To Flow (1)
15	50.37	92.28	Shut-In(1)
22	825.15	92.57	End Shut-In(1)
46	53.13	92.70	Open To Flow (2)
61	68.20	95.27	Shut-In(2)
71	886.19	95.63	End Shut-In(2)
92	1364.22	95.24	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
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17245 **DST#: 1**
 Test Start: 2011.12.30 @ 01:50:00

Tool Information

Drill Pipe:	Length: 2901.00 ft	Diameter: 3.80 inches	Volume: 40.69 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: 40.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	2916.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	57.00 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			2893.00	
Hydraulic Tool	5.00			2898.00	
Jars	6.00			2904.00	
Safety Joint	2.00			2906.00	
Packer	5.00			2911.00	28.00 Bottom Of Top Packer
Packer	5.00			2916.00	
Perforations	24.00			2940.00	
Recorder	1.00	6806	Inside	2941.00	
Recorder	1.00	6663	Outside	2942.00	
Bull Plug	3.00			2945.00	29.00 Bottom Packers & Anchor
Total Tool Length:	57.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G Holl

29-30s-13w-Barber

9431 East Central Suite 100
Wichita Kansas 67206

Lenkner 1-29

Job Ticket: 17245

DST#: 1

ATTN: Frank Greenbaum

Test Start: 2011.12.30 @ 01:50:00

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: 41.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psia

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Drilling Mud 100%	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

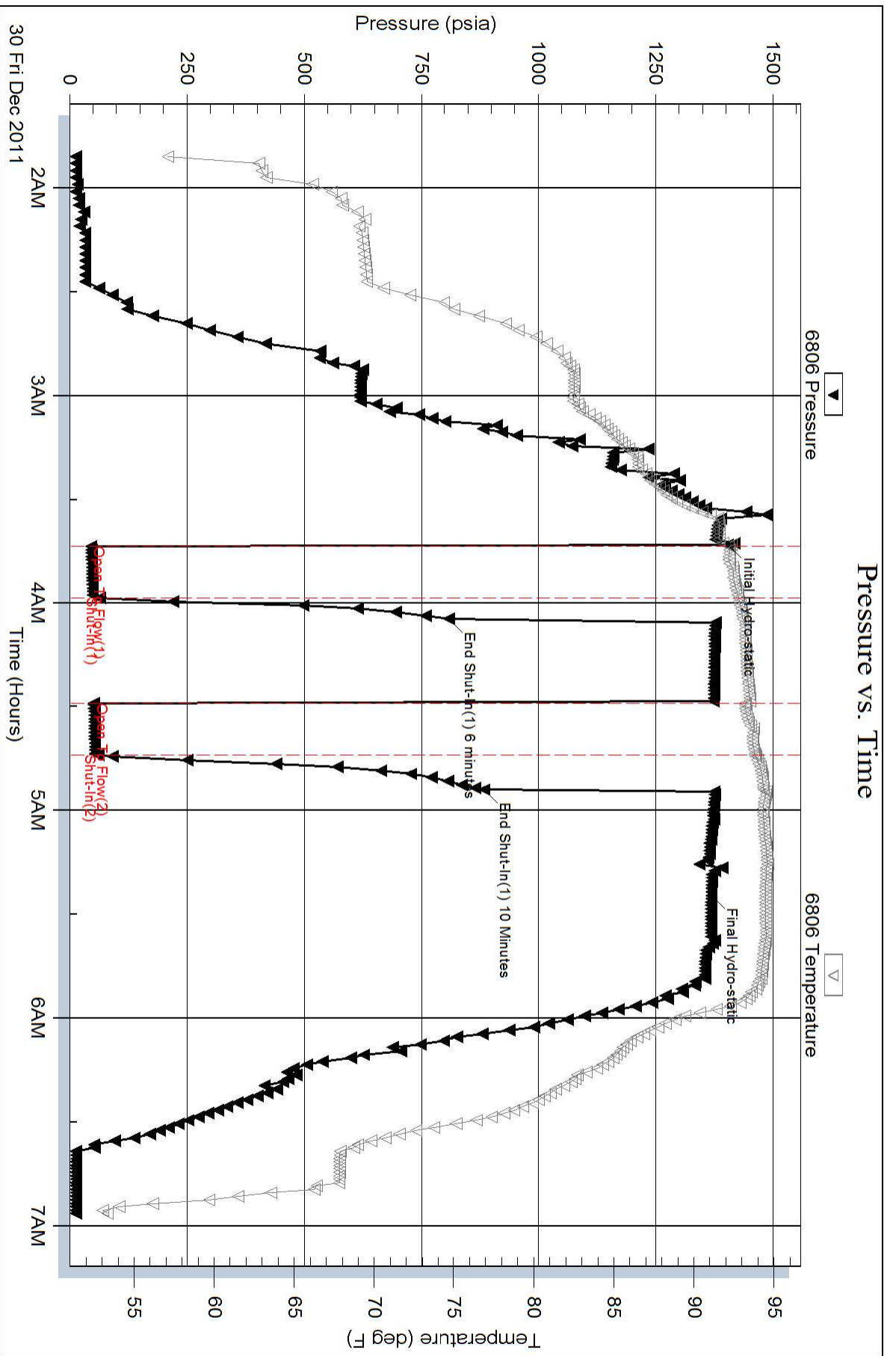
Num Gas Bombs: 0

Serial #:

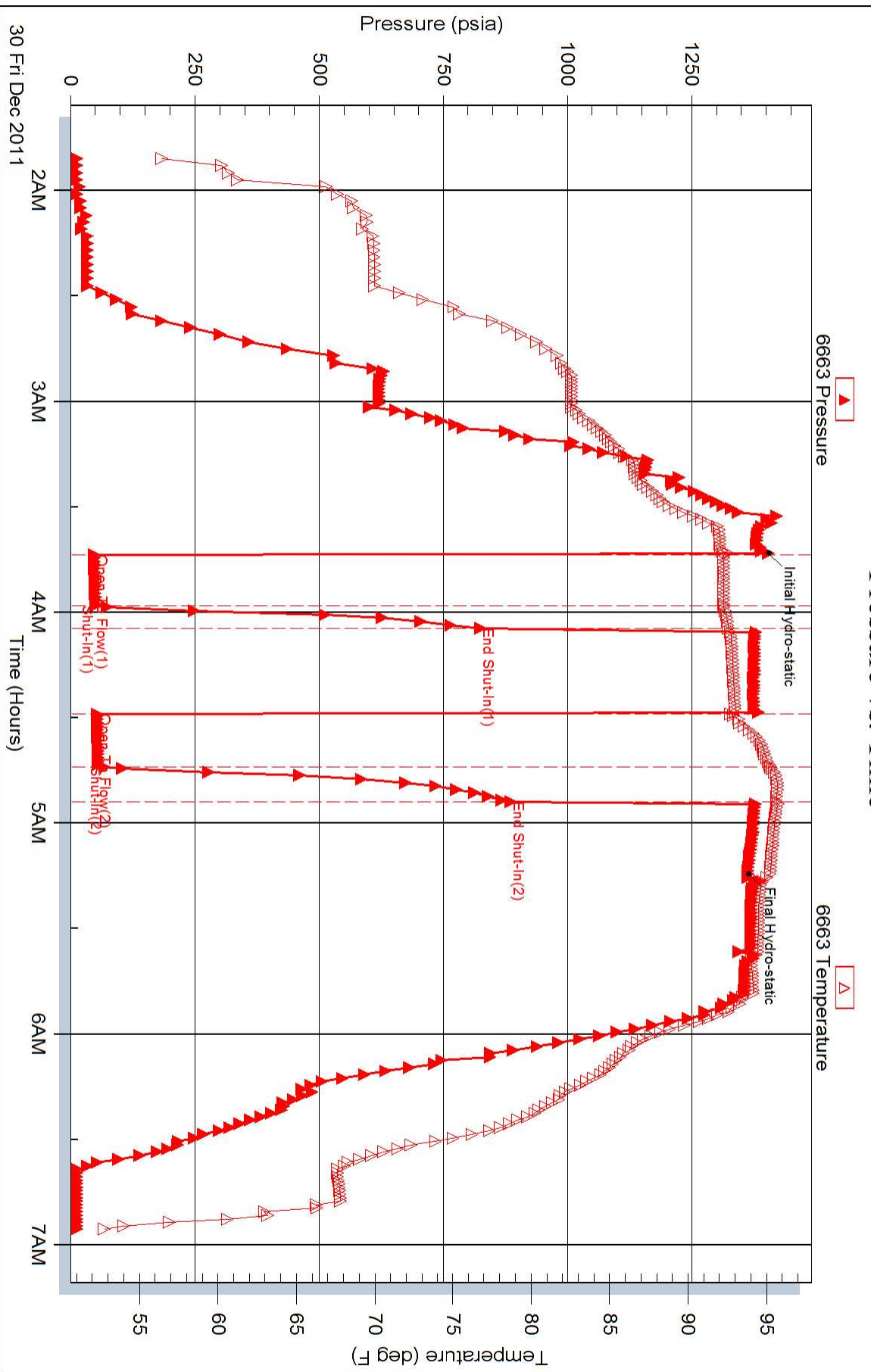
Laboratory Name:

Laboratory Location:

Recovery Comments:



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **F.G Holl**

9431 East Central Suite 100
Wichita Kansas 67206

ATTN: Frank Greenbaum

Lenkner 1-29

29-30s-13w-Barber

Start Date: 2011.12.31 @ 01:45:00

End Date: 2011.12.31 @ 06:31:00

Job Ticket #: 17246 DST #: 2

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

Printed: 2011.12.31 @ 09:30:03

F.G Holl
29-30s-13w-Barber
Lenkner 1-29
DST # 2
Indian Cave
2011.12.31



DRILL STEM TEST REPORT

F.G Holl

29-30s-13w-Barber

9431 East Central Suite 100
Wichita Kansas 67206

Lenkner 1-29

ATTN: Frank Greenbaum

Job Ticket: 17246

DST#: 2

Test Start: 2011.12.31 @ 01:45:00

GENERAL INFORMATION:

Formation: **Indian Cave**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:23:00

Time Test Ended: 06:31:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315 GB-70

Interval: 2910.00 ft (KB) To 2964.00 ft (KB) (TVD)

Reference Elevations: 1921.00 ft (KB)

Total Depth: 2964.00 ft (KB) (TVD)

1913.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6806 Inside

Press @ RunDepth: 69.94 psia @ 2960.38 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.12.31

End Date: 2011.12.31

Last Calib.: 2011.12.31

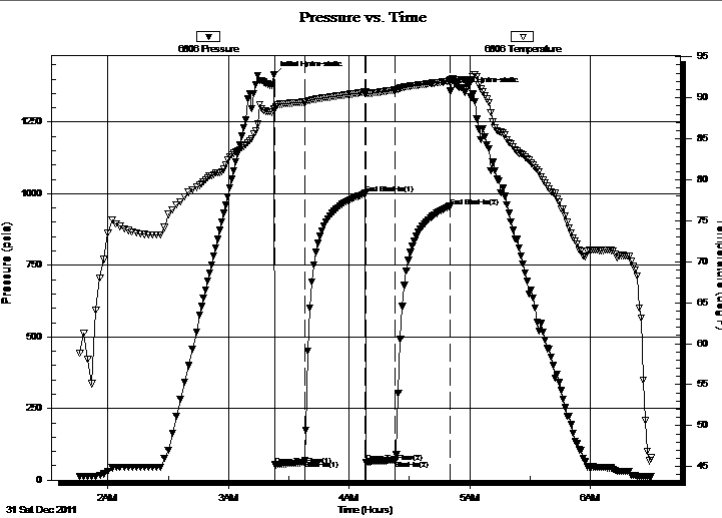
Start Time: 01:45:00

End Time: 06:31:00

Time On Btm: 2011.12.31 @ 03:22:30

Time Off Btm: 2011.12.31 @ 04:50:30

TEST COMMENT: 1st Open 15 minutes Weak building blow built to 2 inches into bucket
 1st Shut in 30 minutes No blow back
 2nd Open 15 minutes Weak blow blew 1.5 inches
 2nd Shut in 30 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1413.85	88.64	Initial Hydro-static
1	53.26	88.63	Open To Flow (1)
16	70.13	89.51	Shut-In(1)
46	1000.88	90.70	End Shut-In(1)
46	63.16	90.50	Open To Flow (2)
61	69.94	90.98	Shut-In(2)
88	955.52	92.03	End Shut-In(2)
88	1358.02	92.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	Mud 100%	0.49

Gas Rates

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



DRILL STEM TEST REPORT

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

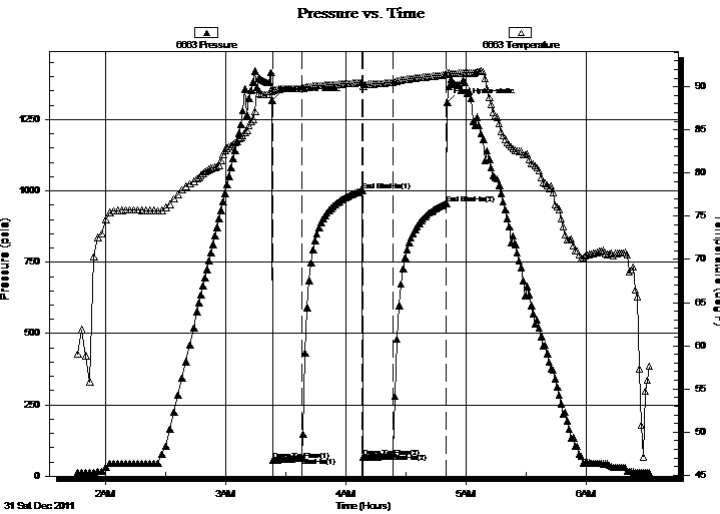
29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17246 **DST#: 2**
 Test Start: 2011.12.31 @ 01:45:00

GENERAL INFORMATION:

Formation: **Indian Cave**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:23:00
 Time Test Ended: 06:31:00
 Interval: **2910.00 ft (KB) To 2964.00 ft (KB) (TVD)**
 Total Depth: 2964.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315 GB-70
 Reference Elevations: 1921.00 ft (KB)
 1913.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6663 Outside
 Press @ RunDepth: 956.38 psia @ 2961.38 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.12.31 End Date: 2011.12.31 Last Calib.: 2011.12.31
 Start Time: 01:45:00 End Time: 06:31:30 Time On Btm: 2011.12.31 @ 03:23:00
 Time Off Btm: 2011.12.31 @ 04:50:30

TEST COMMENT: 1st Open 15 minutes Weak building blow built to 2 inches into bucket
 1st Shut in 30 minutes No blow back
 2nd Open 15 minutes Weak blow blew 1.5 inches
 2nd Shut in 30 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1316.77	89.78	Initial Hydro-static
1	55.87	89.57	Open To Flow (1)
15	65.40	89.81	Shut-In(1)
46	1001.86	90.49	End Shut-In(1)
46	64.88	90.07	Open To Flow (2)
61	80.16	90.50	Shut-In(2)
87	956.38	91.38	End Shut-In(2)
88	1309.16	91.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	Mud 100%	0.49

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17246 **DST#: 2**
 Test Start: 2011.12.31 @ 01:45:00

Tool Information

Drill Pipe:	Length: 2896.00 ft	Diameter: 3.80 inches	Volume: 40.62 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: 40.62 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	2910.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	54.38 ft				
Tool Length:	82.38 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			2887.00	
Hydraulic Tool	5.00			2892.00	
Jars	6.00			2898.00	
Safety Joint	2.00			2900.00	
Packer	5.00			2905.00	28.00 Bottom Of Top Packer
Packer	5.00			2910.00	
Perforations	0.00			2910.00	
Change Over Sub	0.75			2910.75	
Drill Pipe	30.88			2941.63	
Change Over Sub	0.75			2942.38	
Perforations	17.00			2959.38	
Recorder	1.00	6806	Inside	2960.38	
Recorder	1.00	6663	Outside	2961.38	
Bull Plug	3.00			2964.38	54.38 Bottom Packers & Anchor

Total Tool Length: 82.38



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G Holl

29-30s-13w-Barber

9431 East Central Suite 100
Wichita Kansas 67206

Lenkner 1-29

Job Ticket: 17246

DST#: 2

ATTN: Frank Greenbaum

Test Start: 2011.12.31 @ 01:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 41.00 sec/qt

Water Loss: 8.80 in³

Resistivity: ohm.m

Salinity: 6500.00 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
35.00	Mud 100%	0.491

Total Length: 35.00 ft Total Volume: 0.491 bbl

Num Fluid Samples: 0

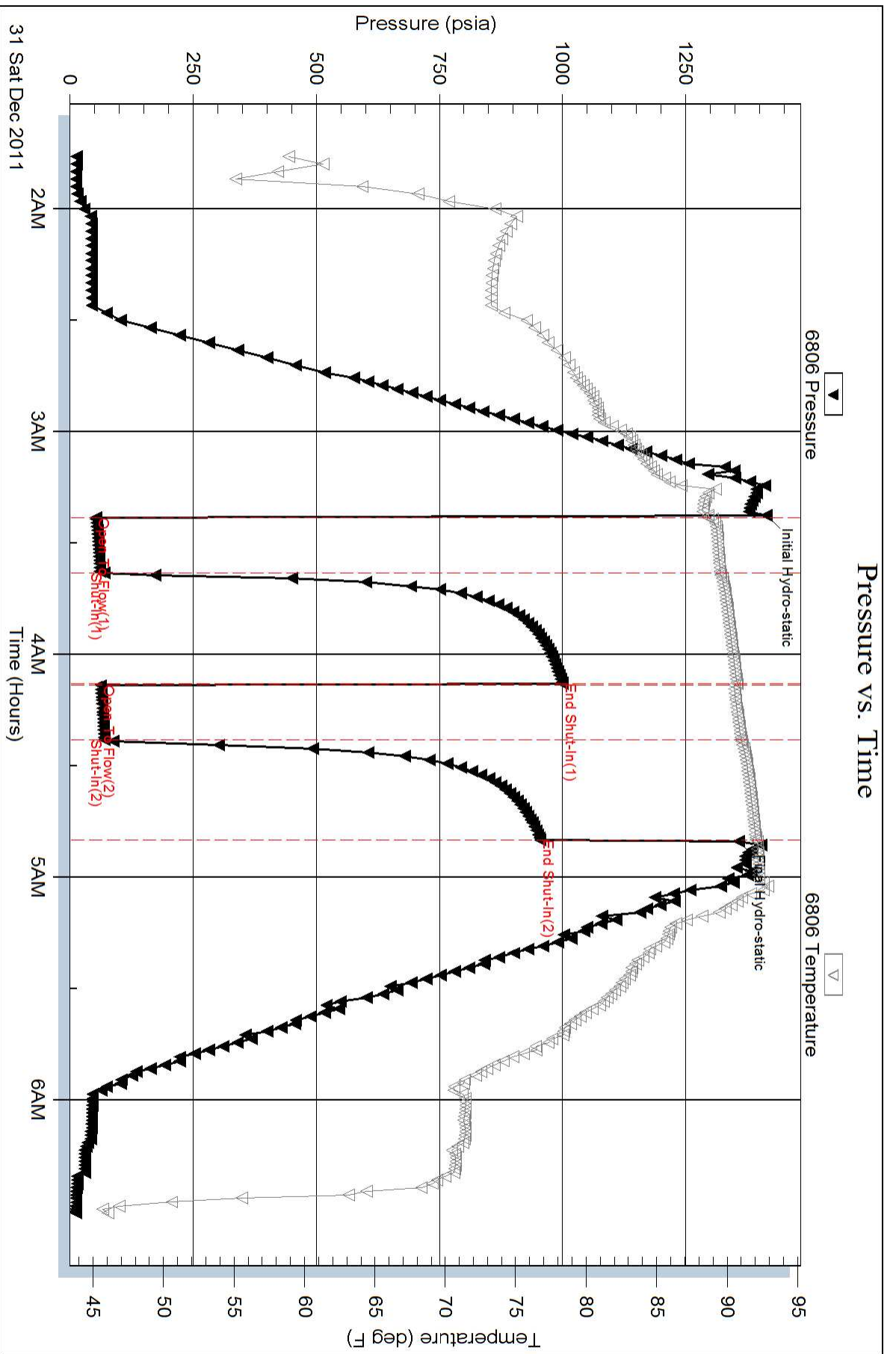
Num Gas Bombs: 0

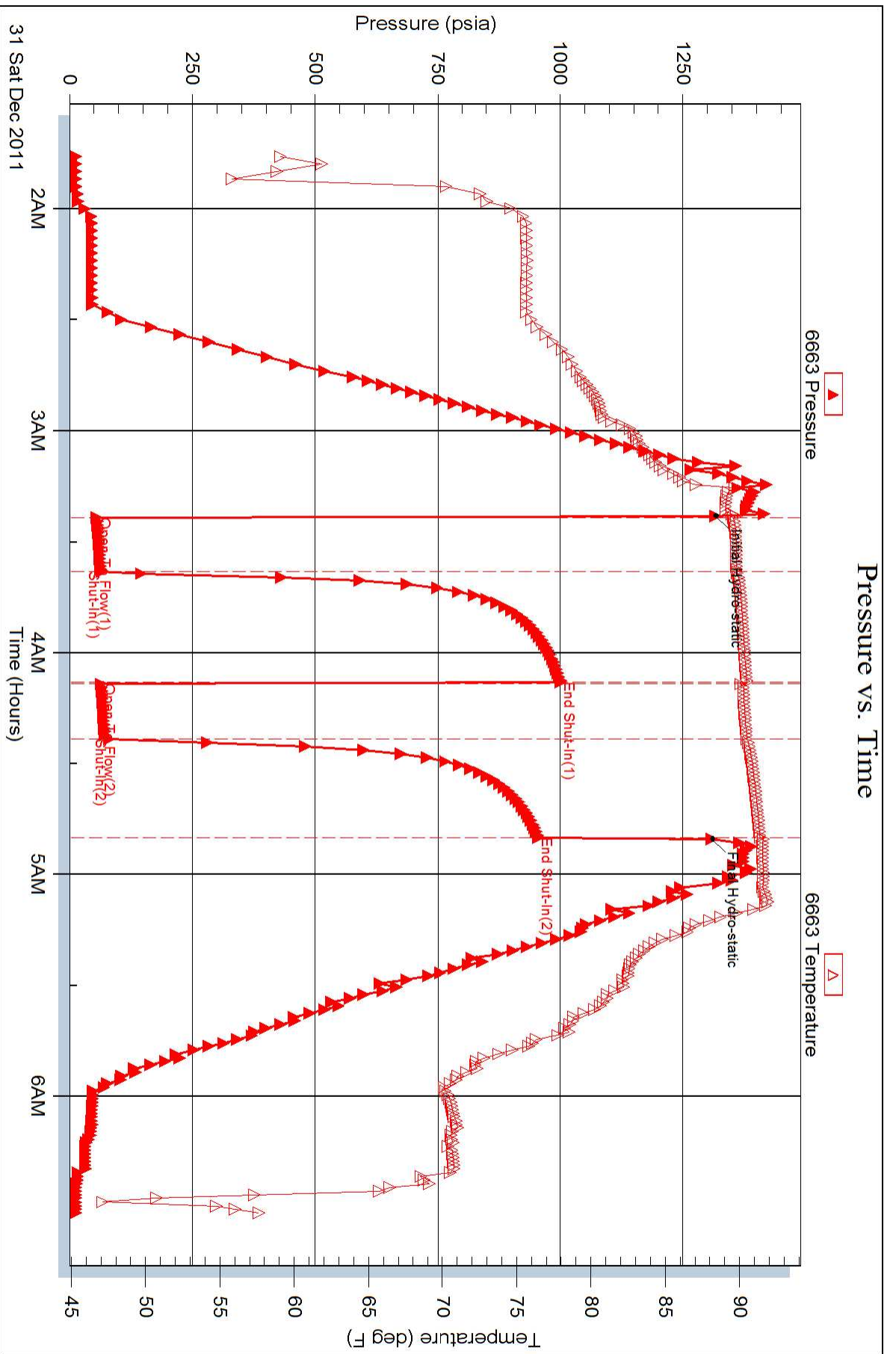
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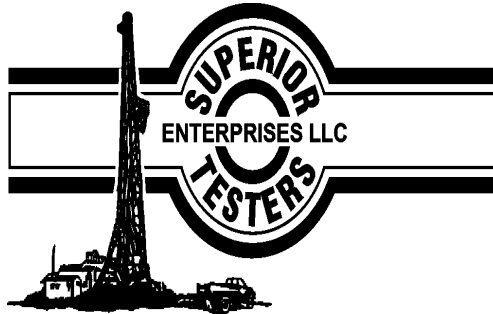
Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **F.G Holl**

9431 East Central Suite 100
Wichita Kansas 67206

ATTN: Frank Greenbaum

Lenkner 1-29

29-30s-13w-Barber

Start Date: 2012.01.02 @ 05:14:00

End Date: 2012.01.02 @ 11:17:30

Job Ticket #: 17247 DST #: 3

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

Printed: 2012.01.02 @ 23:44:42

F.G Holl
29-30s-13w-Barber
Lenkner 1-29
DST # 3
Douglas Sand
2012.01.02



DRILL STEM TEST REPORT

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

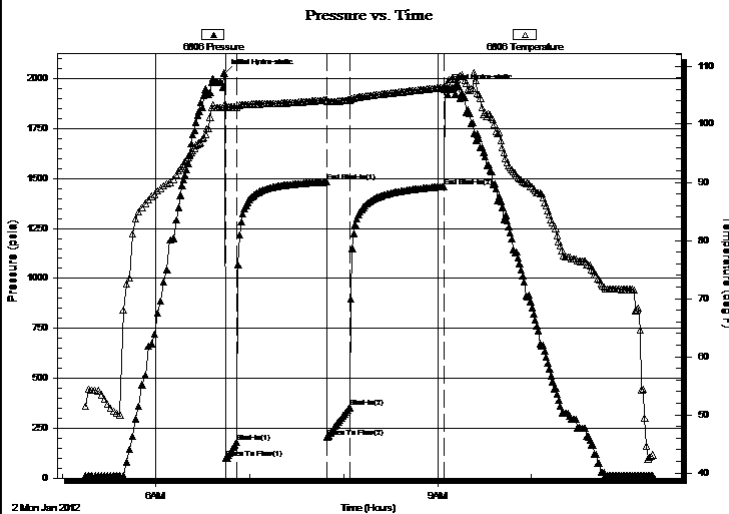
29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17247 **DST#: 3**
 Test Start: 2012.01.02 @ 05:14:00

GENERAL INFORMATION:

Formation: **Douglas Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:44:30
 Time Test Ended: 11:17:30
 Interval: **3951.00 ft (KB) To 3990.00 ft (KB) (TVD)**
 Total Depth: 3990.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-GB-140
 Reference Elevations: 1921.00 ft (KB)
 1913.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6806 Inside
 Press @ RunDepth: 355.44 psia @ 4008.19 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.01.02 End Date: 2012.01.02 Last Calib.: 2012.01.02
 Start Time: 05:14:00 End Time: 11:17:30 Time On Btm: 2012.01.02 @ 06:44:00
 Time Off Btm: 2012.01.02 @ 09:04:30

TEST COMMENT: 1st Open 5 minutes Fair building blow bottom bucket in 3 minutes
 1st Shut in 60 minutes No blow back
 2nd Open 15 minutes Fair building blow blew bottom bucket 4 minutes
 2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2026.77	103.33	Initial Hydro-static
1	98.79	102.97	Open To Flow (1)
8	179.78	102.96	Shut-In(1)
65	1482.78	104.16	End Shut-In(1)
66	206.56	103.88	Open To Flow (2)
80	355.44	104.17	Shut-In(2)
140	1459.93	106.34	End Shut-In(2)
141	1947.61	106.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
600.00	Water cut mud 10% Mud 90% Water	8.42
0.00	Chlorides 52000	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

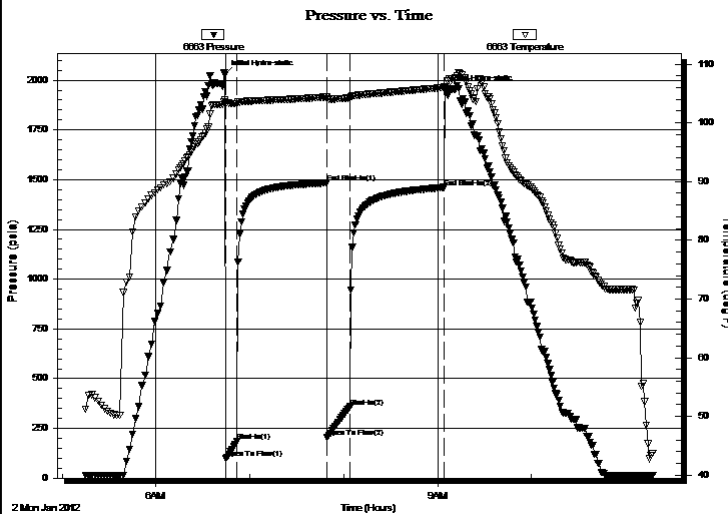
29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17247 **DST#: 3**
 Test Start: 2012.01.02 @ 05:14:00

GENERAL INFORMATION:

Formation: **Douglas Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:44:30
 Time Test Ended: 11:17:30
 Interval: **3951.00 ft (KB) To 3990.00 ft (KB) (TVD)**
 Total Depth: 3990.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-GB-140
 Reference Elevations: 1921.00 ft (KB)
 1913.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6663 Outside
 Press @ RunDepth: 1460.89 psia @ 4009.19 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.01.02 End Date: 2012.01.02 Last Calib.: 2012.01.02
 Start Time: 05:14:00 End Time: 11:18:00 Time On Btm: 2012.01.02 @ 06:44:00
 Time Off Btm: 2012.01.02 @ 09:04:30

TEST COMMENT: 1st Open 5 minutes Fair building blow bottom bucket in 3 minutes
 1st Shut in 60 minutes No blow back
 2nd Open 15 minutes Fair building blow blew bottom bucket 4 minutes
 2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2026.13	103.87	Initial Hydro-static
1	98.01	103.46	Open To Flow (1)
8	183.03	103.24	Shut-In(1)
65	1483.84	104.39	End Shut-In(1)
66	206.31	104.08	Open To Flow (2)
80	358.31	104.26	Shut-In(2)
140	1460.89	106.02	End Shut-In(2)
141	1954.55	106.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
600.00	Water cut mud 10% Mud 90% Water	8.42
0.00	Chlorides 52000	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17247 **DST#: 3**
 Test Start: 2012.01.02 @ 05:14:00

Tool Information

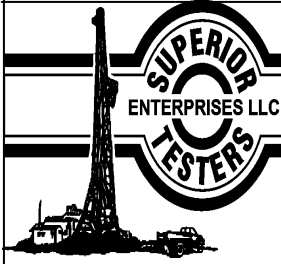
Drill Pipe:	Length: 3937.00 ft	Diameter: 3.80 inches	Volume: 55.23 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 55.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3951.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.19 ft			
Tool Length:	89.19 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			3928.00	
Hydraulic Tool	5.00			3933.00	
Jars	6.00			3939.00	
Safety Joint	2.00			3941.00	
Packer	5.00			3946.00	28.00 Bottom Of Top Packer
Packer	5.00			3951.00	
Perforations	5.00			3956.00	
Change Over Sub	0.75			3956.75	
Drill Pipe	30.69			3987.44	
Change Over Sub	0.75			3988.19	
Perforations	19.00			4007.19	
Recorder	1.00	6806	Inside	4008.19	
Recorder	1.00	6663	Outside	4009.19	
Bull Plug	3.00			4012.19	61.19 Bottom Packers & Anchor

Total Tool Length: 89.19



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G Holl

29-30s-13w-Barber

9431 East Central Suite 100
Wichita Kansas 67206

Lenkner 1-29

Job Ticket: 17247

DST#: 3

ATTN: Frank Greenbaum

Test Start: 2012.01.02 @ 05:14:00

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 0.10 ohm.m

Gas Cushion Pressure:

psia

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
600.00	Water cut mud 10% Mud 90% Water	8.416
0.00	Chlorides 52000	0.000

Total Length: 600.00 ft Total Volume: 8.416 bbl

Num Fluid Samples: 0

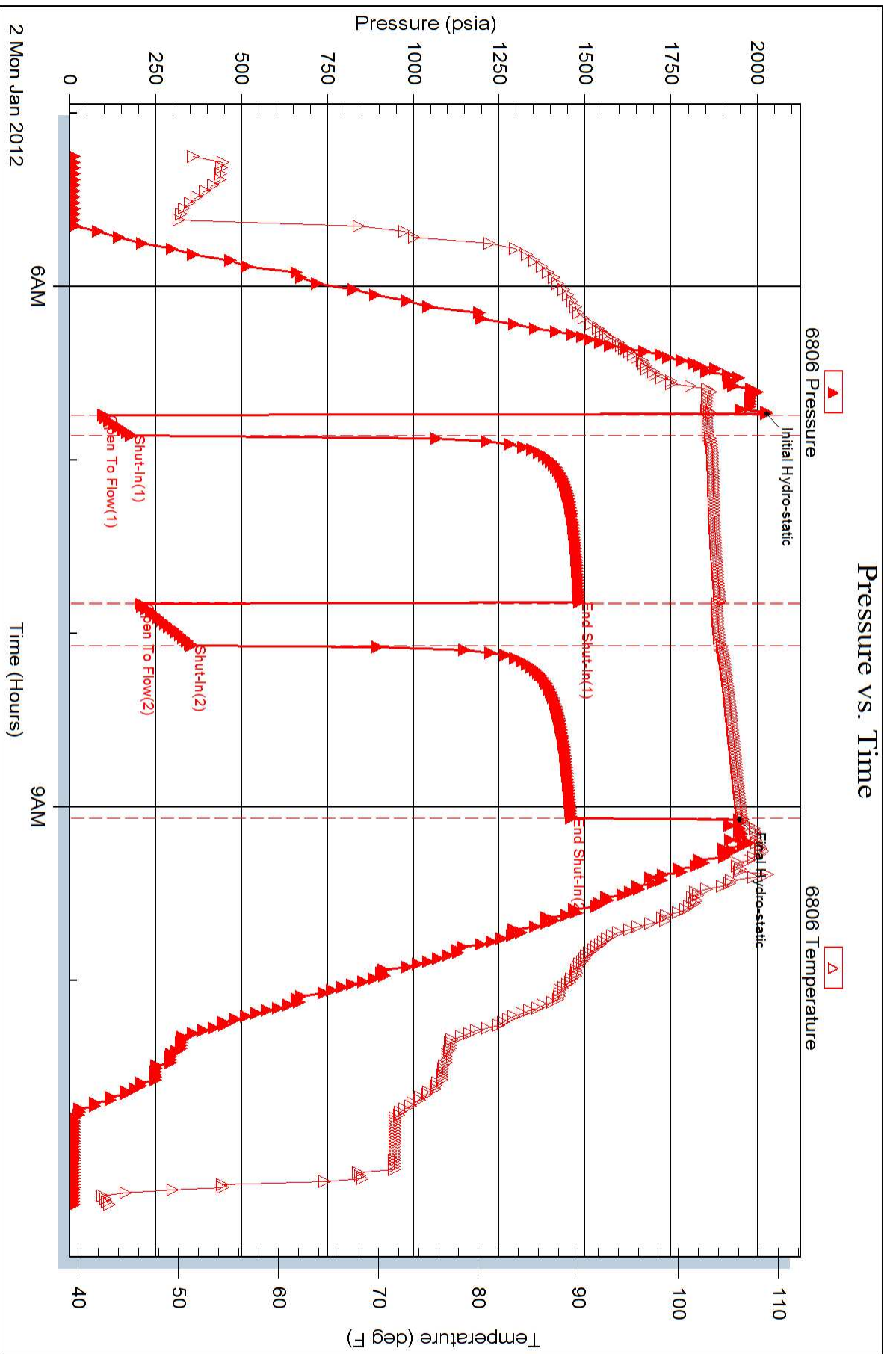
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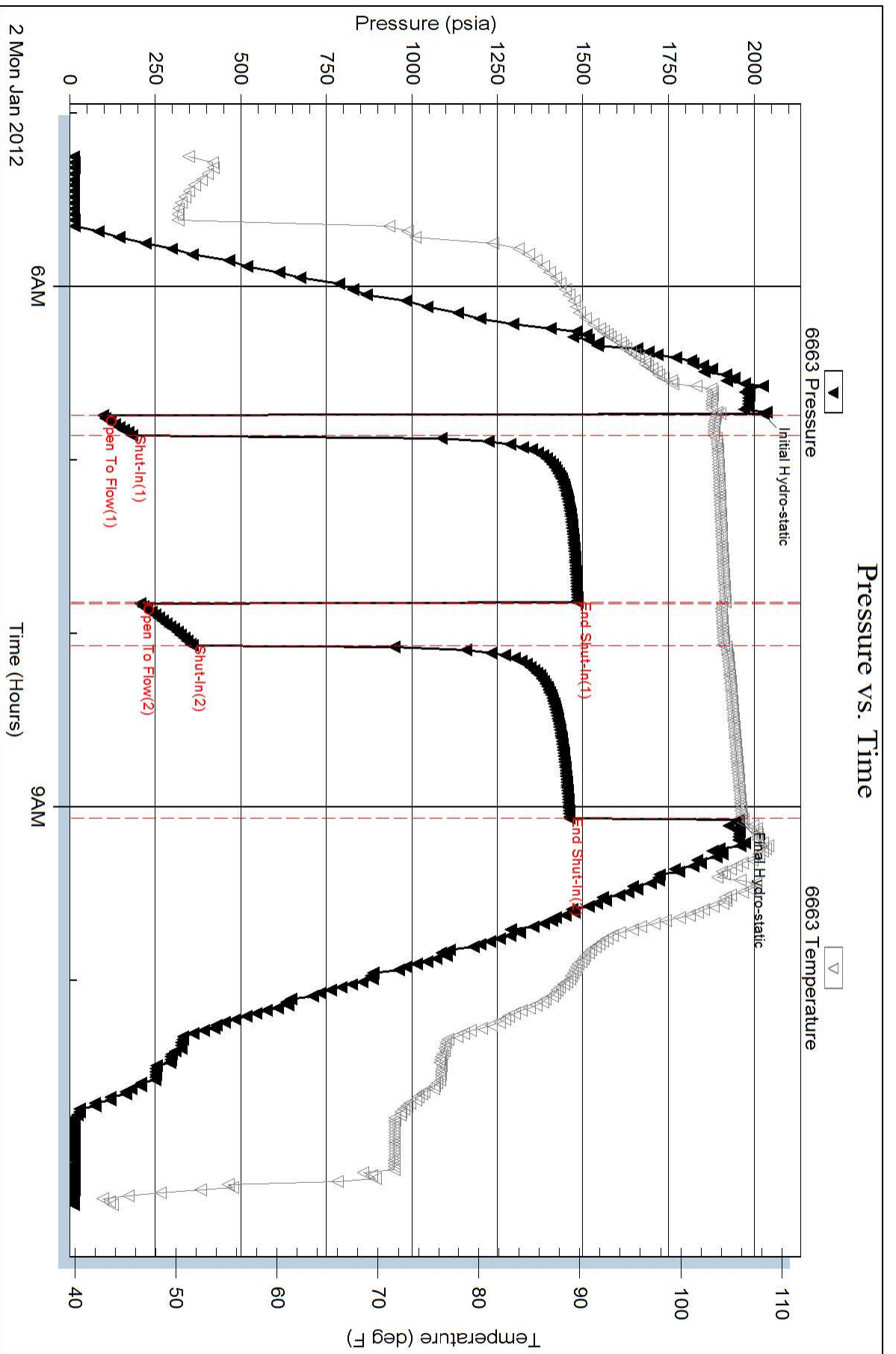
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **F.G Holl**

9431 East Central Suite 100
Wichita Kansas 67206

ATTN: Frank Greenbaum

Lenkner 1-29

29-30s-13w-Barber

Start Date: 2012.01.04 @ 03:07:00

End Date: 2012.01.04 @ 09:36:30

Job Ticket #: 17248 DST #: 4

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

Printed: 2012.01.04 @ 10:02:45

F.G Holl
29-30s-13w-Barber
Lenkner 1-29
DST # 4
Lancing J
2012.01.04



DRILL STEM TEST REPORT

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

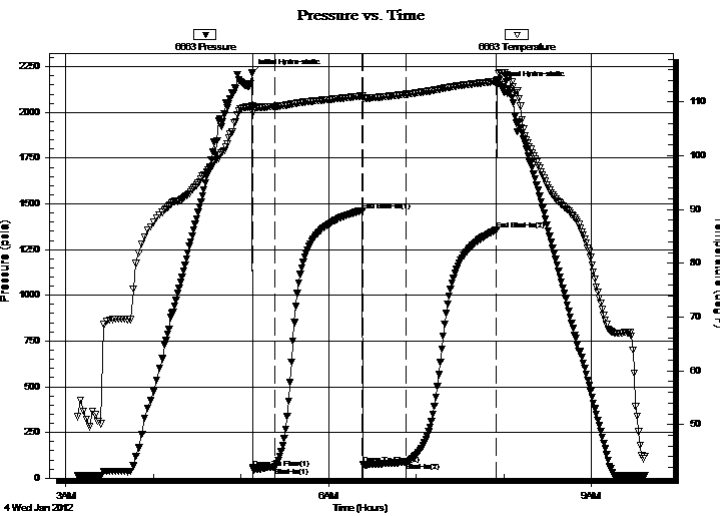
29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17248 **DST#: 4**
 Test Start: 2012.01.04 @ 03:07:00

GENERAL INFORMATION:

Formation: **Lancing J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:08:00
 Time Test Ended: 09:36:30
 Interval: **4330.00 ft (KB) To 4356.00 ft (KB) (TVD)**
 Total Depth: 4356.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-GB-170
 Reference Elevations: 1921.00 ft (KB)
 1913.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6663 Outside
 Press @ RunDepth: 87.33 psia @ 4353.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.01.04 End Date: 2012.01.04 Last Calib.: 2012.01.04
 Start Time: 03:07:00 End Time: 09:36:30 Time On Btm: 2012.01.04 @ 05:07:30
 Time Off Btm: 2012.01.04 @ 07:55:30

TEST COMMENT: 1st Open 15 minutes Fair building blow built to 2.5 inches in 15 minutes
 1st Shut in 60 minutes No blow back
 2nd Open 30 minutes Fair building blow built to 4.5 inches in 30 minutes
 2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2214.65	109.23	Initial Hydro-static
1	55.42	107.95	Open To Flow (1)
16	61.19	109.18	Shut-In(1)
76	1463.77	111.12	End Shut-In(1)
76	75.58	110.76	Open To Flow (2)
106	87.33	111.45	Shut-In(2)
168	1357.38	113.87	End Shut-In(2)
168	2147.45	114.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Muddy water 5%Water 95% Mud	1.26

Gas Rates

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



DRILL STEM TEST REPORT

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

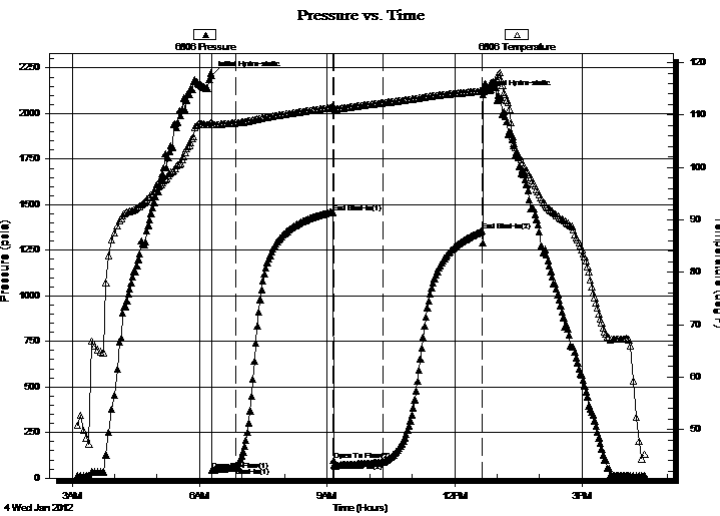
29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17248 **DST#: 4**
 Test Start: 2012.01.04 @ 03:07:00

GENERAL INFORMATION:

Formation: **Lancing J**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 05:08:00 Tester: Dustin Ellis
 Time Test Ended: 09:36:30 Unit No: 3315-GB-170
 Interval: **4330.00 ft (KB) To 4356.00 ft (KB) (TVD)** Reference Elevations: 1921.00 ft (KB)
 Total Depth: 4356.00 ft (KB) (TVD) 1913.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6806 Inside
 Press @ Run Depth: 1355.25 psia @ 4352.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.01.04 End Date: 2012.01.04 Last Calib.: 2012.01.04
 Start Time: 03:07:00 End Time: 09:36:30 Time On Btm: 2012.01.04 @ 06:16:30
 Time Off Btm: 2012.01.04 @ 12:40:00

TEST COMMENT: 1st Open 15 minutes Fair building blow built to 2.5 inches in 15 minutes
 1st Shut in 60 minutes No blow back
 2nd Open 30 minutes Fair building blow built to 4.5 inches in 30 minutes
 2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2209.17	108.78	Initial Hydro-static
1	42.89	108.24	Open To Flow (1)
35	59.19	108.51	Shut-In(1)
172	1455.64	111.50	End Shut-In(1)
173	96.30	111.18	Open To Flow (2)
243	85.87	112.33	Shut-In(2)
383	1355.25	114.58	End Shut-In(2)
384	2105.73	114.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Muddy water 5% Water 95% Mud	1.26

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

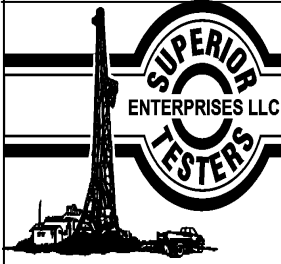
29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17248 **DST#: 4**
 Test Start: 2012.01.04 @ 03:07:00

Tool Information

Drill Pipe:	Length: 4322.00 ft	Diameter: 3.80 inches	Volume: 60.63 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:	71000.00 lb
			<u>Total Volume: 60.63 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	4330.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	54.00 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			4307.00	
Hydraulic Tool	5.00			4312.00	
Jars	6.00			4318.00	
Safety Joint	2.00			4320.00	
Packer	5.00			4325.00	28.00 Bottom Of Top Packer
Packer	5.00			4330.00	
Perforations	21.00			4351.00	
Recorder	1.00	6806	Inside	4352.00	
Recorder	1.00	6663	Outside	4353.00	
Bull Plug	3.00			4356.00	26.00 Bottom Packers & Anchor
Total Tool Length:	54.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G Holl

29-30s-13w-Barber

9431 East Central Suite 100
Wichita Kansas 67206

Lenkner 1-29

Job Ticket: 17248

DST#: 4

ATTN: Frank Greenbaum

Test Start: 2012.01.04 @ 03:07:00

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
90.00	Muddy water 5%Water 95% Mud	1.262

Total Length: 90.00 ft Total Volume: 1.262 bbl

Num Fluid Samples: 0

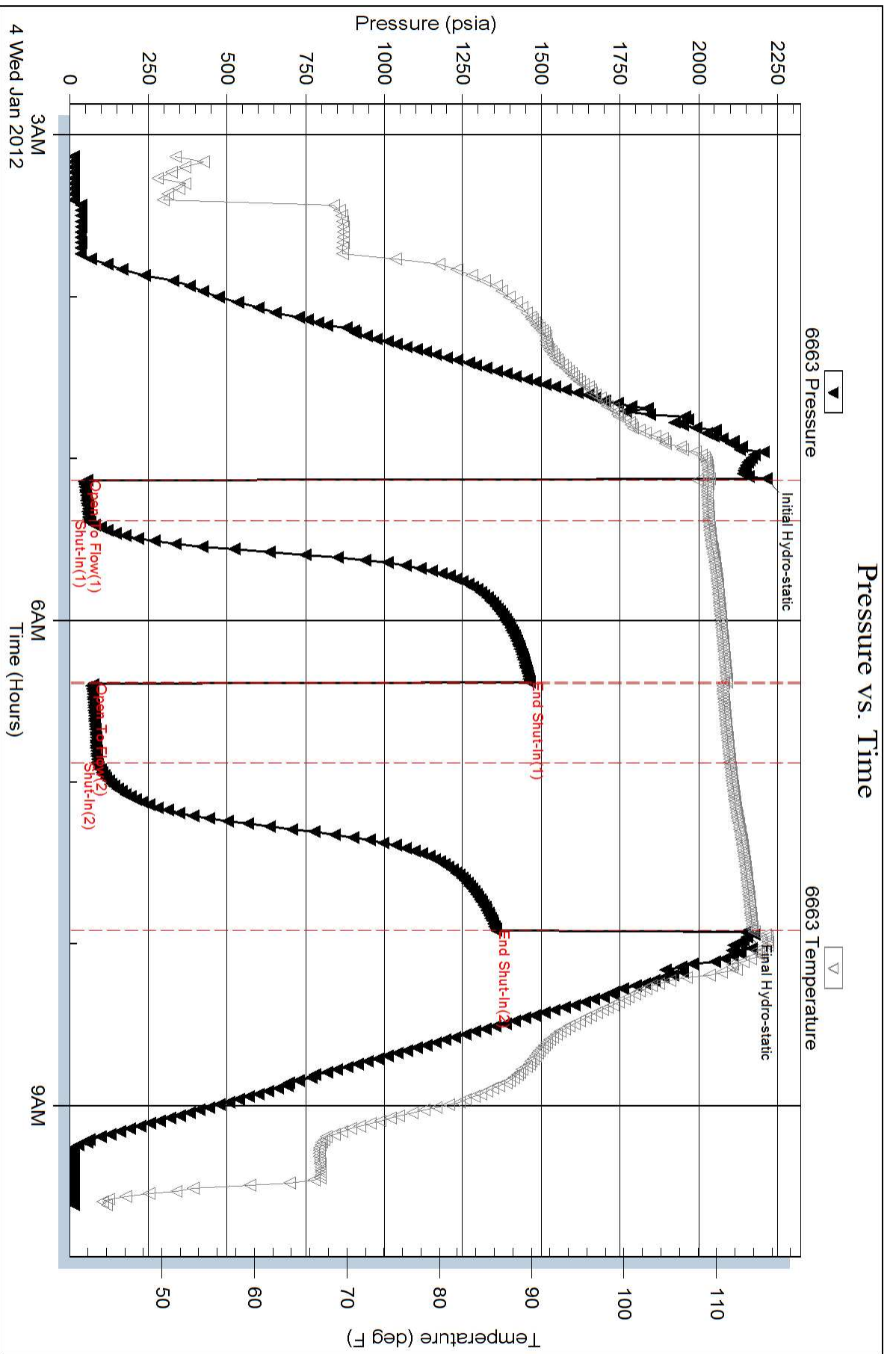
Num Gas Bombs: 0

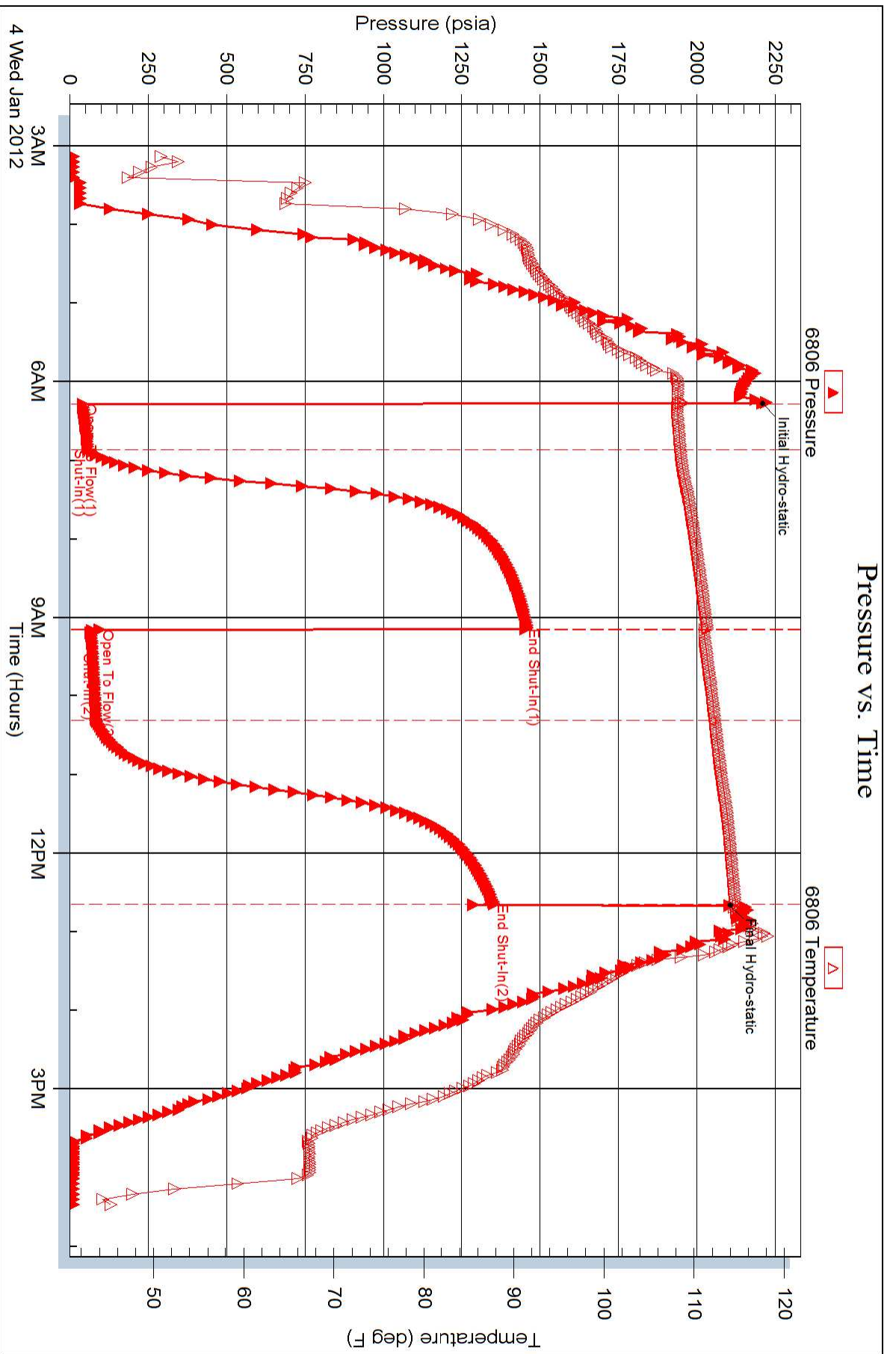
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **F.G Holl**

9431 East Central Suite 100
Wichita Kansas 67206

ATTN: Frank Greenbaum

Lenkner 1-29

29-30s-13w-Barber

Start Date: 2012.01.04 @ 11:00:00

End Date: 2012.01.04 @ 15:27:30

Job Ticket #: 17249 DST #: 5

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

Printed: 2012.01.05 @ 04:54:44

F.G Holl
29-30s-13w-Barber
Lenkner 1-29
DST # 5
Marmaton
2012.01.04



DRILL STEM TEST REPORT

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17249 **DST#: 5**
 Test Start: 2012.01.04 @ 11:00:00

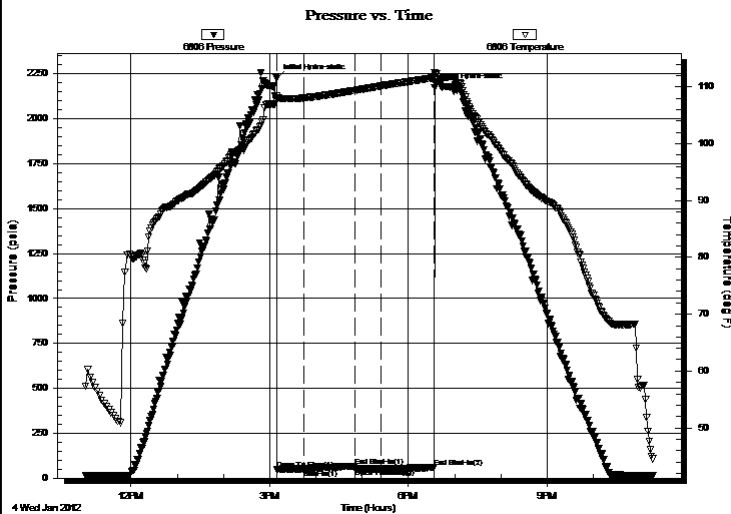
GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:09:30
 Time Test Ended: 15:27:30
 Interval: **4396.00 ft (KB) To 4440.00 ft (KB) (TVD)**
 Total Depth: 4440.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-GB-170
 Reference Elevations: 1921.00 ft (KB)
 1913.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6806

Press @ RunDepth: 52.55 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.01.04 End Date: 2012.01.04 Last Calib.: 2012.01.05
 Start Time: 11:00:00 End Time: 15:27:30 Time On Btm: 2012.01.04 @ 15:09:00
 Time Off Btm: 2012.01.04 @ 18:34:00

TEST COMMENT: 1st Open 15 minutes Weak surface blow .5 inches
 1st Shut in 30 minutes No blow back
 2nd Open 15 minutes Weak surface blow
 2nd Shut in 30 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2223.68	108.35	Initial Hydro-static
1	50.16	107.86	Open To Flow (1)
36	51.37	108.04	Shut-In(1)
102	67.04	109.36	End Shut-In(1)
102	51.81	109.37	Open To Flow (2)
136	52.55	110.15	Shut-In(2)
205	58.71	111.61	End Shut-In(2)
205	2174.63	112.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	Mud 100%	0.06

Gas Rates

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



DRILL STEM TEST REPORT

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17249 **DST#: 5**
 Test Start: 2012.01.04 @ 11:00:00

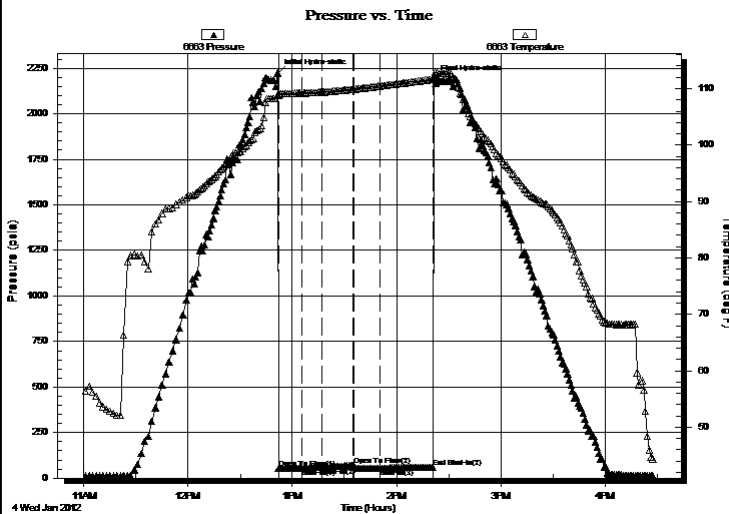
GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:09:30
 Time Test Ended: 15:27:30
 Interval: **4396.00 ft (KB) To 4440.00 ft (KB) (TVD)**
 Total Depth: 4440.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-GB-170
 Reference Elevations: 1921.00 ft (KB)
 1913.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6663

Press @ RunDepth: 60.90 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.01.04 End Date: 2012.01.04 Last Calib.: 2012.01.05
 Start Time: 11:00:00 End Time: 15:27:30 Time On Btm: 2012.01.04 @ 12:51:30
 Time Off Btm: 2012.01.04 @ 14:21:30

TEST COMMENT: 1st Open 15 minutes Weak surface blow .5 inches
 1st Shut in 30 minutes No blow back
 2nd Open 15 minutes Weak surface blow
 2nd Shut in 30 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2222.77	108.83	Initial Hydro-static
1	52.47	108.78	Open To Flow (1)
14	53.86	109.21	Shut-In(1)
26	60.14	109.38	Shut-In(2)
44	69.04	109.89	End Shut-In(1)
44	69.13	109.91	Open To Flow (2)
59	54.68	110.45	Shut-In(3)
90	60.90	111.66	End Shut-In(2)
90	2186.88	112.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	Mud 100%	0.06

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

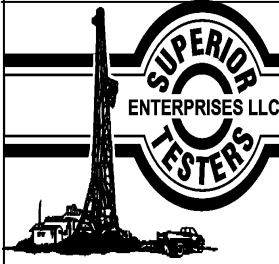
29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17249 **DST#: 5**
 Test Start: 2012.01.04 @ 11:00:00

Tool Information

Drill Pipe:	Length: 4382.00 ft	Diameter: 3.80 inches	Volume: 61.47 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: 61.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4396.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4373.00	
Hydraulic Tool	5.00			4378.00	
Jars	6.00			4384.00	
Safety Joint	2.00			4386.00	
Packer	5.00			4391.00	28.00 Bottom Of Top Packer
Packer	5.00			4396.00	
Perforations	39.00			4435.00	
Recorder	1.00	6806	Inside	4436.00	
Recorder	1.00	6663	Outside	4437.00	
Bull Plug	3.00			4440.00	44.00 Bottom Packers & Anchor
Total Tool Length:	72.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G Holl

29-30s-13w-Barber

9431 East Central Suite 100
Wichita Kansas 67206

Lenkner 1-29

Job Ticket: 17249

DST#: 5

ATTN: Frank Greenbaum

Test Start: 2012.01.04 @ 11:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	Mud 100%	0.056

Total Length: 4.00 ft Total Volume: 0.056 bbl

Num Fluid Samples: 0

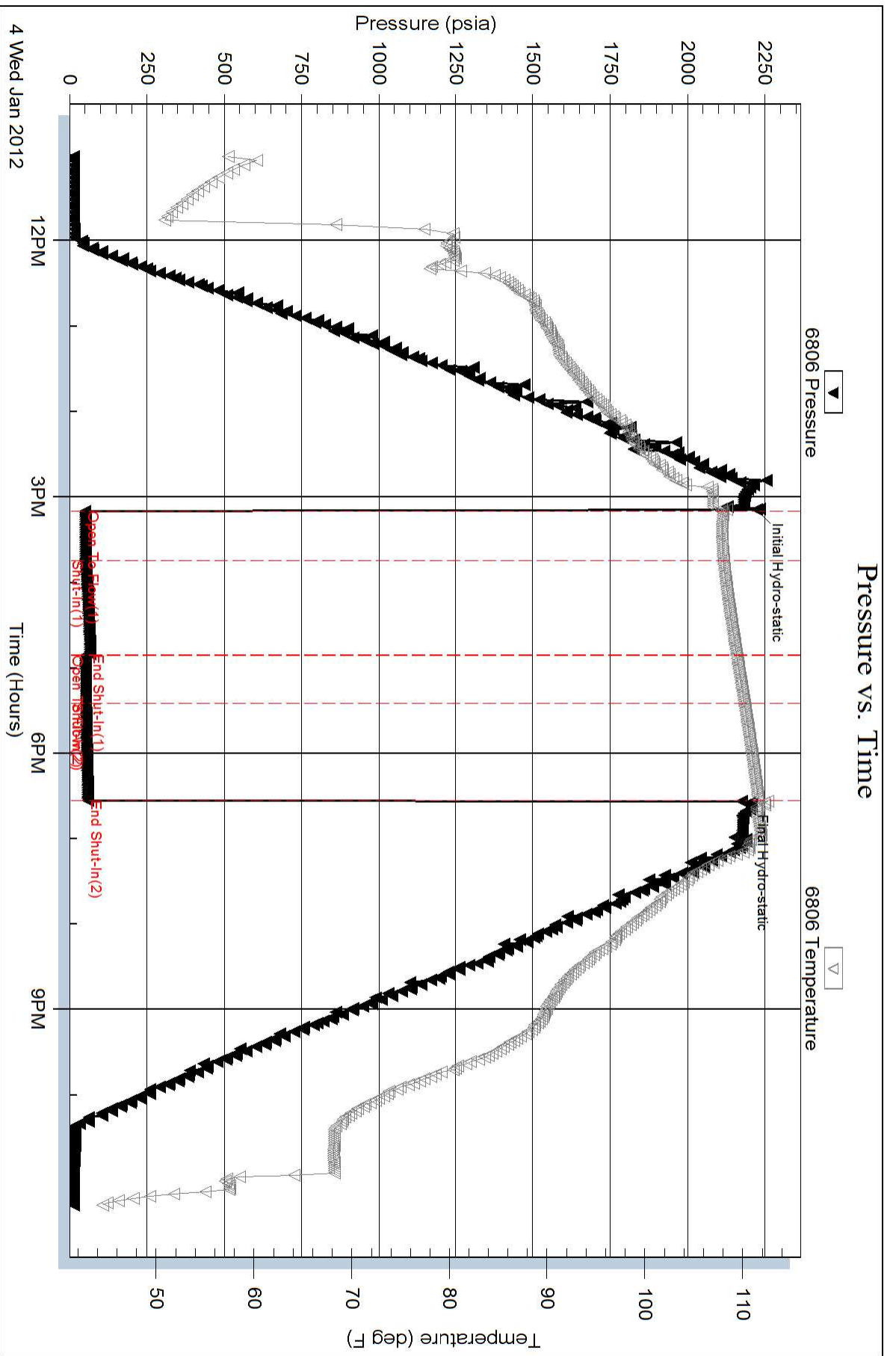
Num Gas Bombs: 0

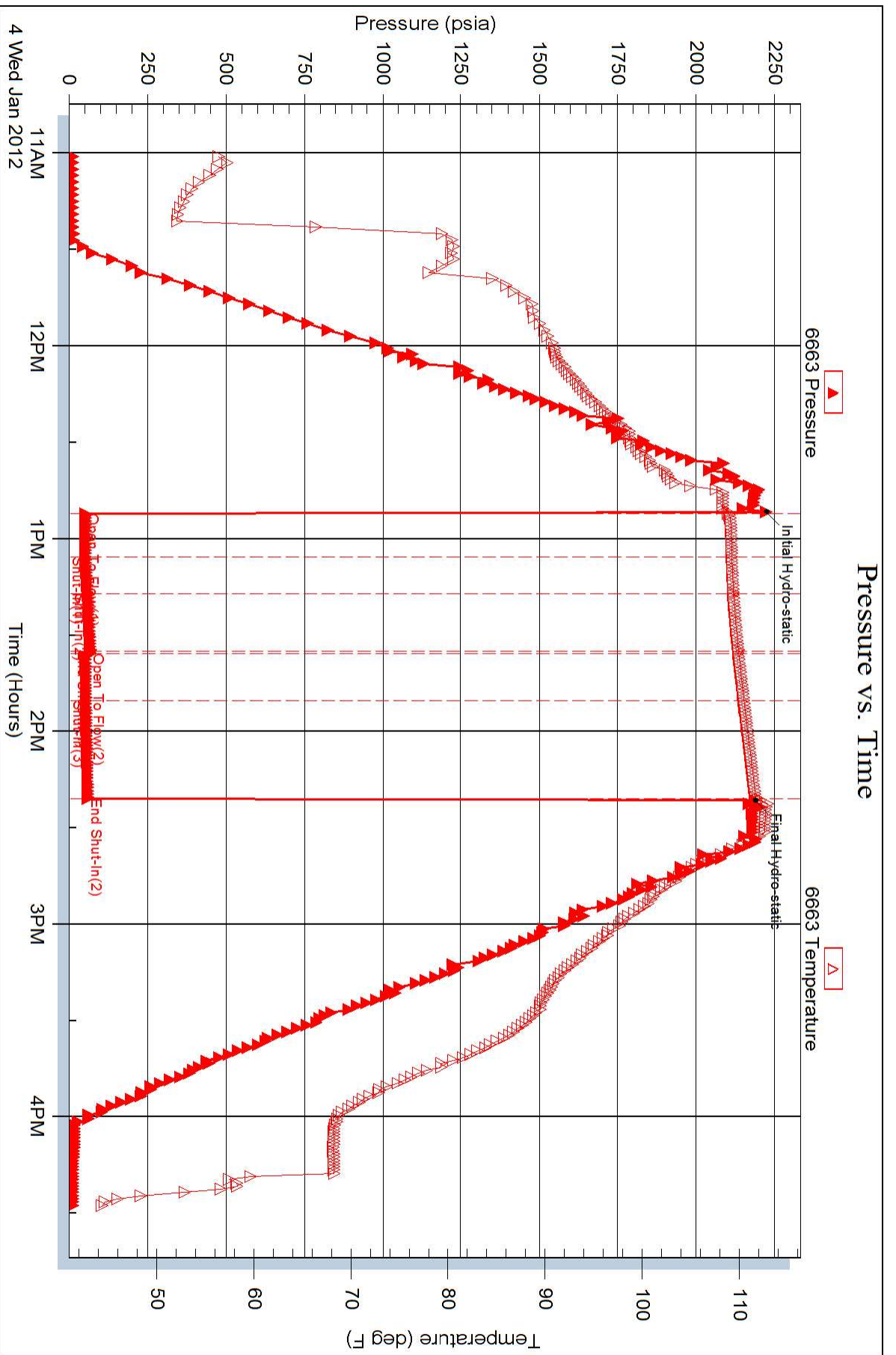
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **F.G Holl**

9431 East Central Suite 100
Wichita Kansas 67206

ATTN: Frank Greenbaum

Lenkner 1-29

29-30s-13w-Barber

Start Date: 2012.01.05 @ 05:50:00

End Date: 2012.01.05 @ 13:25:30

Job Ticket #: 17250 DST #: 6

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

Printed: 2012.01.06 @ 01:41:45

F.G Holl
29-30s-13w-Barber
Lenkner 1-29
DST # 6
Mississippi
2012.01.05



DRILL STEM TEST REPORT

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

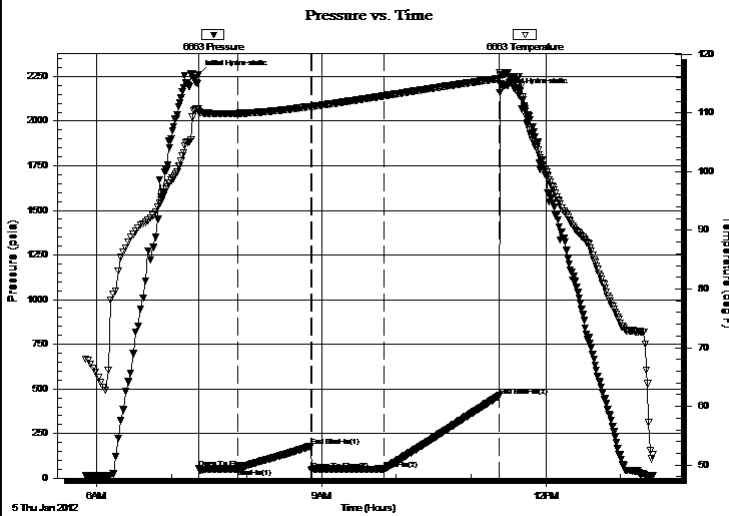
29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17250 **DST#: 6**
 Test Start: 2012.01.05 @ 05:50:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:22:00
 Time Test Ended: 13:25:30
 Interval: **4472.00 ft (KB) To 4515.00 ft (KB) (TVD)**
 Total Depth: 4515.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-GB-170
 Reference Elevations: 1921.00 ft (KB)
 1913.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6663 Outside
 Press @ Run Depth: 50.64 psia @ 4512.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.01.05 End Date: 2012.01.05 Last Calib.: 2012.01.06
 Start Time: 05:50:00 End Time: 13:25:30 Time On Btm: 2012.01.05 @ 07:21:30
 Time Off Btm: 2012.01.05 @ 11:23:00

TEST COMMENT: 1st Open 30 minutes Fair building blow built to 6.5 inches into bucket
 1st Shut in 60 minutes No blow back
 2nd Open 60 minutes Far building blow built to 4 inches then died off
 2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY

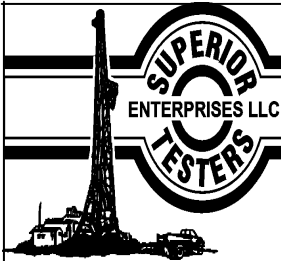
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2261.79	110.76	Initial Hydro-static
1	52.56	110.21	Open To Flow (1)
32	52.73	109.93	Shut-In(1)
90	180.18	111.12	End Shut-In(1)
91	45.43	111.08	Open To Flow (2)
149	50.64	112.89	Shut-In(2)
241	461.23	115.84	End Shut-In(2)
242	2161.01	116.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%	0.14

Gas Rates

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



DRILL STEM TEST REPORT

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17250 **DST#: 6**
 Test Start: 2012.01.05 @ 05:50:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:22:00
 Time Test Ended: 13:25:30
 Interval: **4472.00 ft (KB) To 4515.00 ft (KB) (TVD)**
 Total Depth: 4515.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-GB-170
 Reference Elevations: 1921.00 ft (KB)
 1913.00 ft (CF)
 KB to GR/CF: 8.00 ft

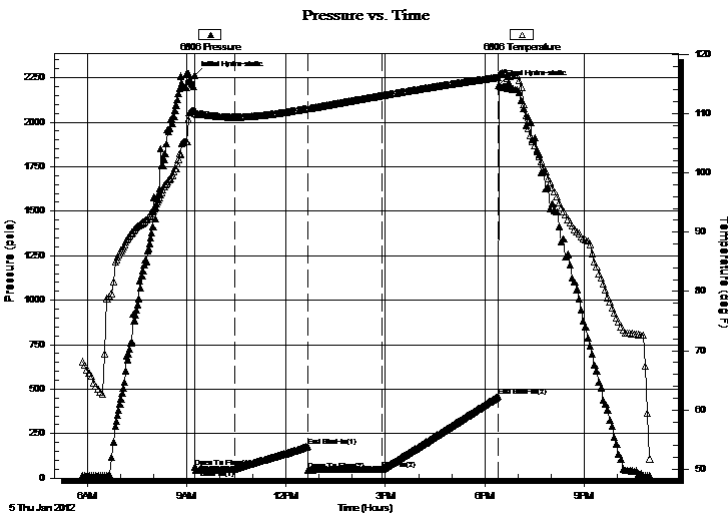
Serial #: 6806

Inside

Press @ RunDepth: 461.25 psia @ 4511.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.01.05 End Date: 2012.01.05 Last Calib.: 2012.01.06
 Start Time: 05:50:00 End Time: 23:01:00 Time On Btm: 2012.01.05 @ 09:14:00
 Time Off Btm: 2012.01.05 @ 18:25:30

TEST COMMENT: 1st Open 30 minutes Fair building blow built to 6.5 inches into bucket
 1st Shut in 60 minutes No blow back
 2nd Open 60 minutes Far building blow built to 4 inches then died off
 2nd Shut in 90 minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2263.84	110.57	Initial Hydro-static
1	63.09	110.00	Open To Flow (1)
72	51.06	109.41	Shut-In(1)
205	178.21	110.86	End Shut-In(1)
206	45.51	110.83	Open To Flow (2)
340	49.48	113.04	Shut-In(2)
551	461.25	116.13	End Shut-In(2)
552	2209.59	116.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%	0.14

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 A T T N : Frank Greenbaum

29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17250 **DST#: 6**
 Test Start: 2012.01.05 @ 05:50:00

Tool Information

Drill Pipe:	Length: 4474.00 ft	Diameter: 3.80 inches	Volume: 62.76 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: 62.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	4472.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	4515.00 ft			
Interval between Packers:	43.00 ft			
Tool Length:	71.00 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			4449.00	
Hydraulic Tool	5.00			4454.00	
Jars	6.00			4460.00	
Safety Joint	2.00			4462.00	
Packer	5.00			4467.00	28.00 Bottom Of Top Packer
Packer	5.00			4472.00	
Perforations	38.00			4510.00	
Recorder	1.00	6806	Inside	4511.00	
Recorder	1.00	6663	Outside	4512.00	
Bull Plug	3.00			4515.00	43.00 Bottom Packers & Anchor
Total Tool Length:	71.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G Holl
9431 East Central Suite 100
Wichita Kansas 67206
ATTN: Frank Greenbaum

29-30s-13w-Barber
Lenkner 1-29
Job Ticket: 17250 **DST#: 6**
Test Start: 2012.01.05 @ 05:50:00

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: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

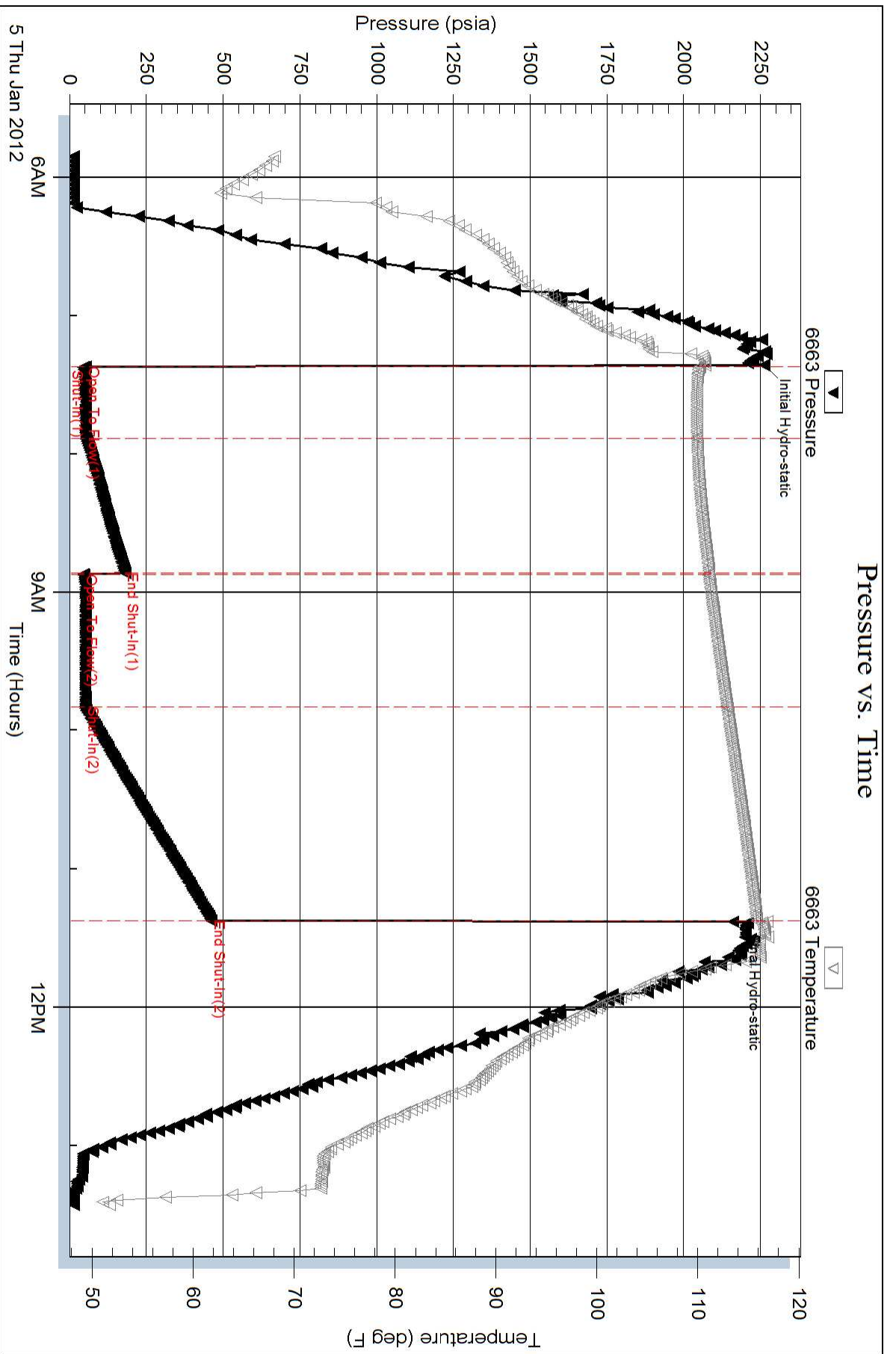
Length ft	Description	Volume bbl
10.00	Mud 100%	0.140

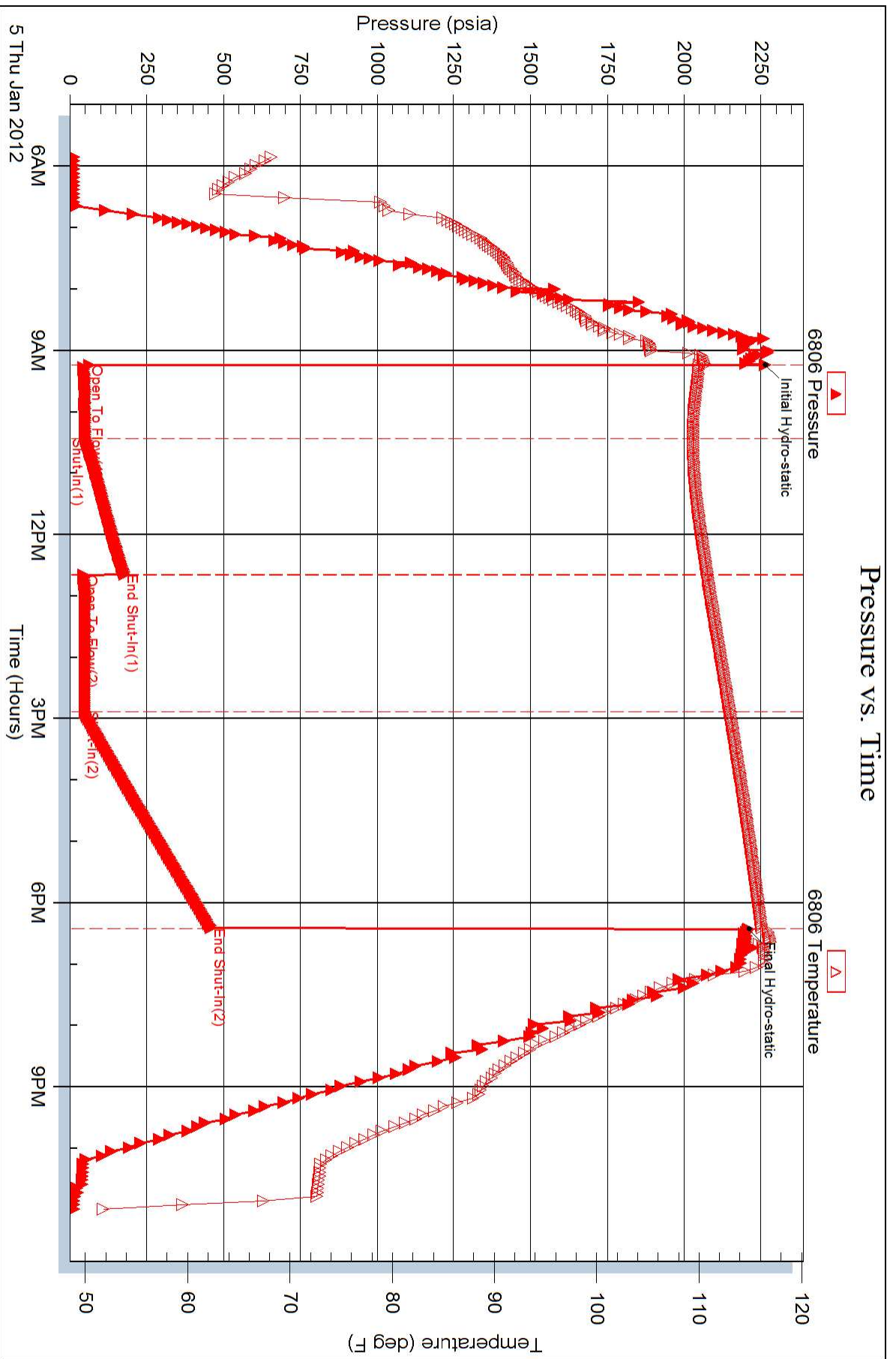
Total Length: 10.00 ft Total Volume: 0.140 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **F.G Holl**

9431 East Central Suite 100
Wichita Kansas 67206

ATTN: Frank Greenbaum

Lenkner 1-29

29-30s-13w-Barber

Start Date: 2012.01.06 @ 04:00:00

End Date: 2012.01.06 @ 10:26:30

Job Ticket #: 17176 DST #: 7

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

Printed: 2012.01.06 @ 22:41:30

F.G Holl
29-30s-13w-Barber
Lenkner 1-29
DST # 7
Viola
2012.01.06



DRILL STEM TEST REPORT

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

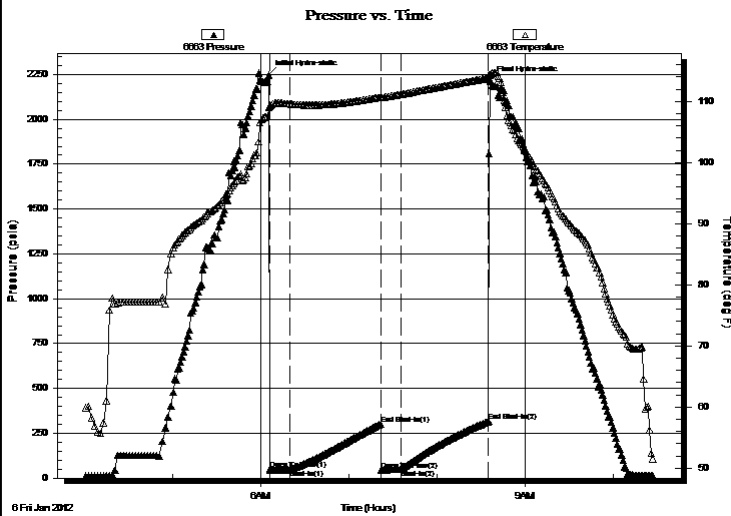
29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17176 **DST#: 7**
 Test Start: 2012.01.06 @ 04:00:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 06:06:00 Tester: Dustin Ellis
 Time Test Ended: 10:26:30 Unit No: 3315-GB-170
 Interval: **4584.00 ft (KB) To 4620.00 ft (KB) (TVD)** Reference Elevations: 1921.00 ft (KB)
 Total Depth: 4620.00 ft (KB) (TVD) 1913.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6663 Outside
 Press @ Run Depth: 47.93 psia @ 4617.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.01.06 End Date: 2012.01.06 Last Calib.: 2012.01.06
 Start Time: 04:00:00 End Time: 10:26:30 Time On Btm: 2012.01.06 @ 06:05:30
 Time Off Btm: 2012.01.06 @ 08:36:00

TEST COMMENT: 1st Open 15 minutes Weak blow built to 1.5 inches
 1st Shut in 60 minutes No blow back
 2nd Open 15 minutes Fair building blow blew 6.5 inches
 2nd Shut in 60 minutes Yes blow back



PRESSURE SUMMARY

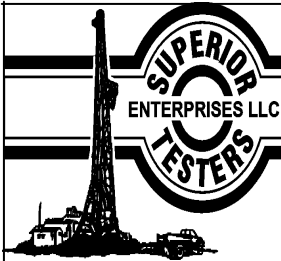
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2246.72	108.99	Initial Hydro-static
1	47.56	109.13	Open To Flow (1)
14	47.49	109.61	Shut-In(1)
76	300.49	110.71	End Shut-In(1)
77	45.02	110.64	Open To Flow (2)
90	47.93	111.16	Shut-In(2)
150	315.65	113.84	End Shut-In(2)
151	2213.65	114.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100%	0.21

Gas Rates

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



DRILL STEM TEST REPORT

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

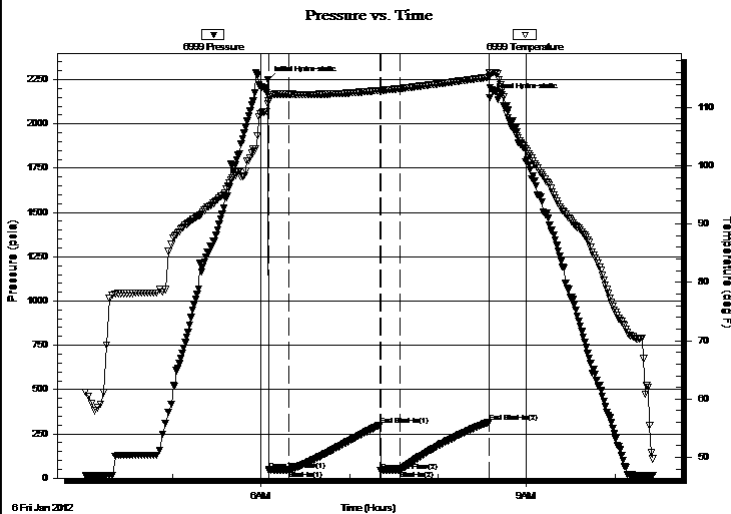
29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17176 **DST#: 7**
 Test Start: 2012.01.06 @ 04:00:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 06:06:00 Tester: Dustin Ellis
 Time Test Ended: 10:26:30 Unit No: 3315-GB-170
 Interval: **4584.00 ft (KB) To 4620.00 ft (KB) (TVD)** Reference Elevations: 1921.00 ft (KB)
 Total Depth: 4620.00 ft (KB) (TVD) 1913.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6999 Inside
 Press @ Run Depth: 315.74 psia @ 4616.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.01.06 End Date: 2012.01.06 Last Calib.: 2012.01.06
 Start Time: 04:00:00 End Time: 10:26:00 Time On Btm: 2012.01.06 @ 06:04:30
 Time Off Btm: 2012.01.06 @ 08:35:00

TEST COMMENT: 1st Open 15 minutes Weak blow built to 1.5 inches
 1st Shut in 60 minutes No blow back
 2nd Open 15 minutes Fair building blow blew 6.5 inches
 2nd Shut in 60 minutes Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2246.62	110.69	Initial Hydro-static
1	46.54	111.06	Open To Flow (1)
14	46.02	112.28	Shut-In(1)
76	298.93	112.94	End Shut-In(1)
77	40.63	112.90	Open To Flow (2)
90	46.36	113.24	Shut-In(2)
150	315.74	115.20	End Shut-In(2)
151	2147.99	115.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100%	0.21

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17176 **DST#: 7**
 Test Start: 2012.01.06 @ 04:00:00

Tool Information

Drill Pipe:	Length: 4573.00 ft	Diameter: 3.80 inches	Volume: 64.15 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: 74000.00 lb
			<u>Total Volume: 64.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4584.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	64.00 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			4561.00	
Hydraulic Tool	5.00			4566.00	
Jars	6.00			4572.00	
Safety Joint	2.00			4574.00	
Packer	5.00			4579.00	28.00 Bottom Of Top Packer
Packer	5.00			4584.00	
Perforations	31.00			4615.00	
Recorder	1.00	6999	Inside	4616.00	
Recorder	1.00	6663	Outside	4617.00	
Bull Plug	3.00			4620.00	36.00 Bottom Packers & Anchor
Total Tool Length:	64.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G Holl

29-30s-13w-Barber

9431 East Central Suite 100
Wichita Kansas 67206

Lenkner 1-29

Job Ticket: 17176

DST#: 7

ATTN: Frank Greenbaum

Test Start: 2012.01.06 @ 04:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 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: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud 100%	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

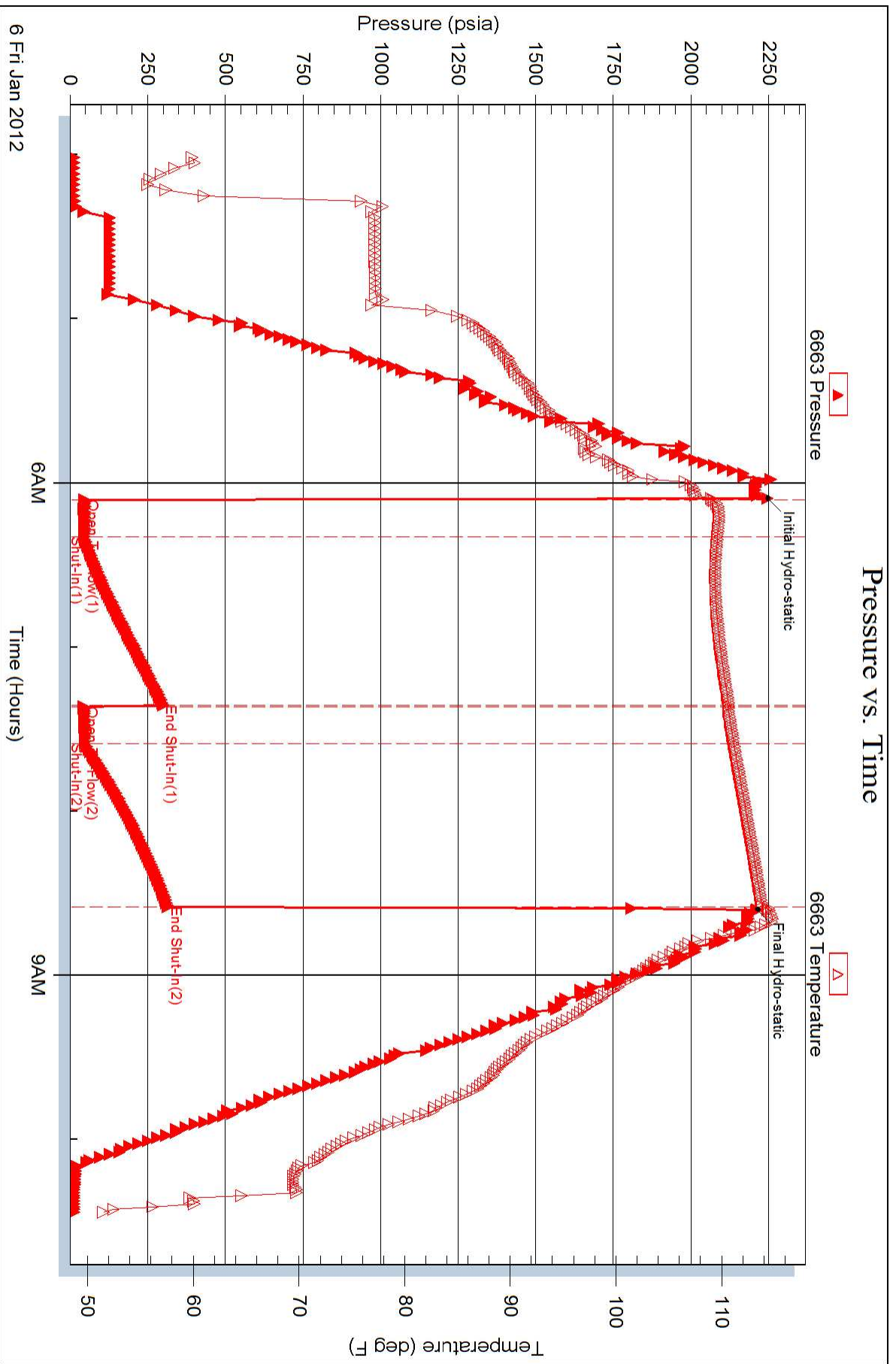
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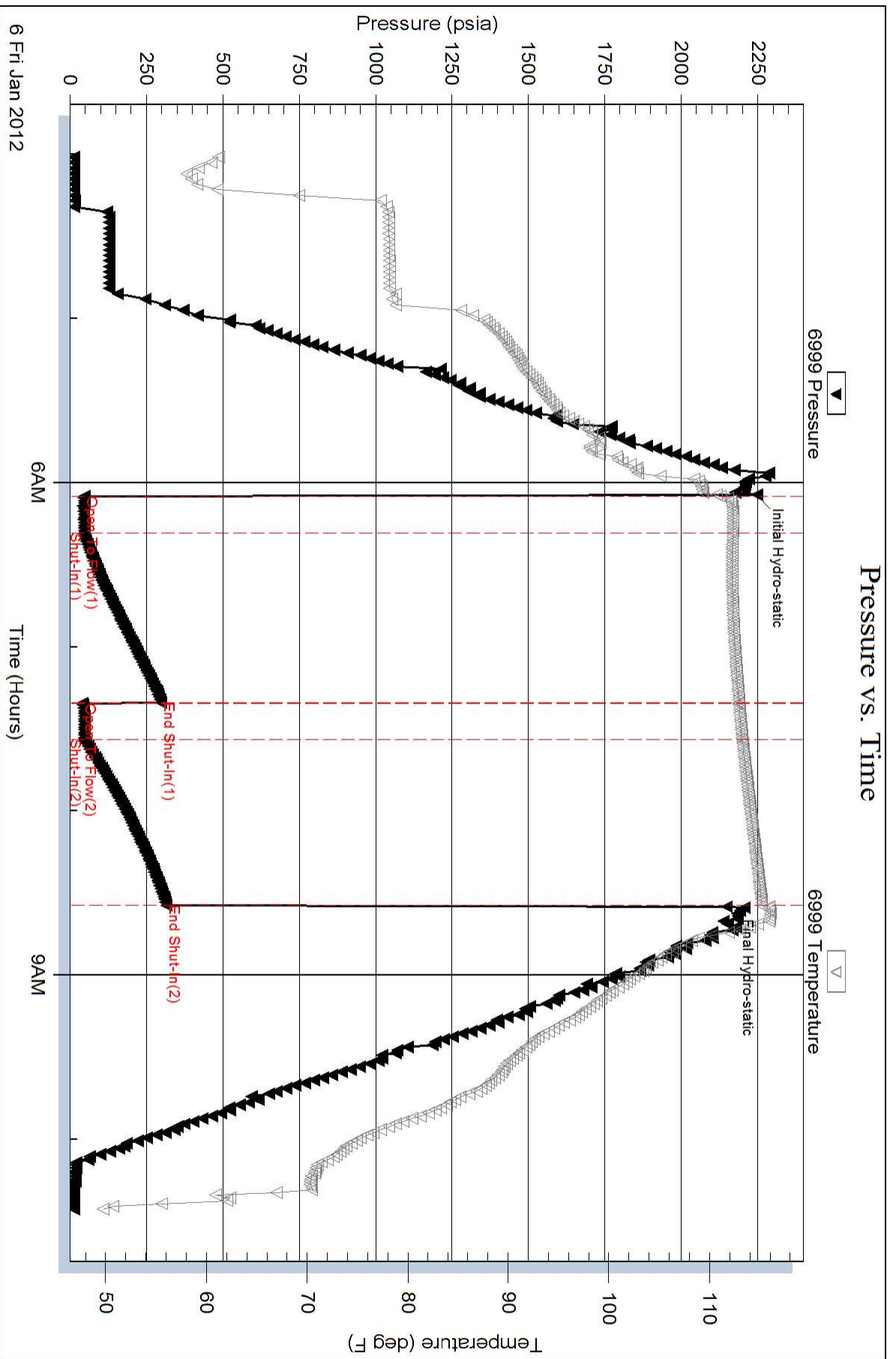
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **F.G Holl**

9431 East Central Suite 100
Wichita Kansas 67206

ATTN: Frank Greenbaum

Lenkner 1-29

29-30s-13w-Barber

Start Date: 2012.01.07 @ 10:10:00

End Date: 2012.01.07 @ 15:52:30

Job Ticket #: 17177 DST #: 8

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

Printed: 2012.01.07 @ 16:01:49

F.G Holl
29-30s-13w-Barber
Lenkner 1-29
DST # 8
Viola
2012.01.07



DRILL STEM TEST REPORT

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

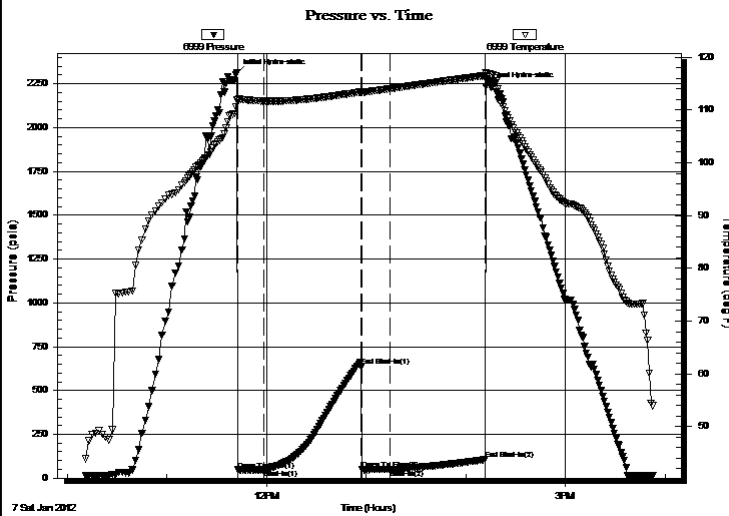
29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17177 **DST#: 8**
 Test Start: 2012.01.07 @ 10:10:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:42:30
 Time Test Ended: 15:52:30
 Interval: **4658.00 ft (KB) To 4698.00 ft (KB) (TVD)**
 Total Depth: 4698.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-GB-140
 Reference Elevations: 1921.00 ft (KB)
 1913.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6999 Inside
 Press @ Run Depth: 48.79 psia @ 4694.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.01.07 End Date: 2012.01.07 Last Calib.: 2012.01.07
 Start Time: 10:10:00 End Time: 15:52:30 Time On Btm: 2012.01.07 @ 11:42:00
 Time Off Btm: 2012.01.07 @ 14:12:00

TEST COMMENT: 1st Open 15 minutes Weak surface blow reached a .5 inch..
 1st Shut in 60 minutes No blow back
 2nd Open 15 minutes Very weak surface blow
 2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2309.62	112.02	Initial Hydro-static
1	46.66	111.88	Open To Flow (1)
16	48.31	111.66	Shut-In(1)
75	637.11	113.41	End Shut-In(1)
76	48.10	113.35	Open To Flow (2)
92	48.79	114.01	Shut-In(2)
150	105.96	116.52	End Shut-In(2)
150	2233.96	117.12	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
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

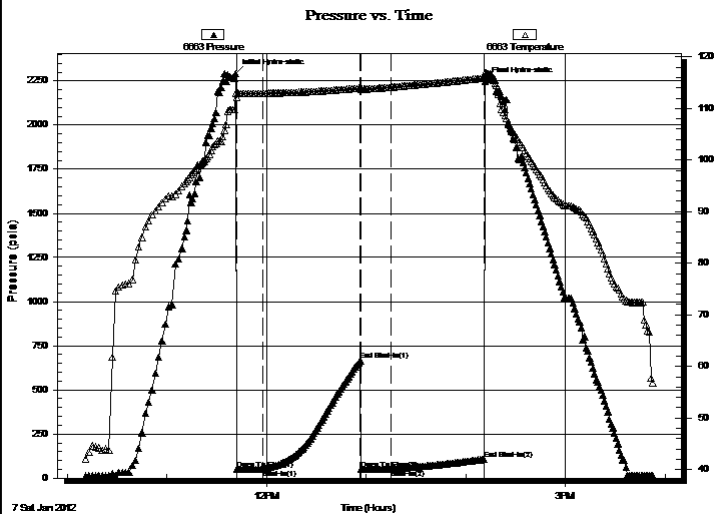
29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17177 **DST#: 8**
 Test Start: 2012.01.07 @ 10:10:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:42:30
 Time Test Ended: 15:52:30
 Interval: **4658.00 ft (KB) To 4698.00 ft (KB) (TVD)**
 Total Depth: 4698.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-GB-140
 Reference Elevations: 1921.00 ft (KB)
 1913.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6663 Outside
 Press @ RunDepth: 108.19 psia @ 4695.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.01.07 End Date: 2012.01.07 Last Calib.: 2012.01.07
 Start Time: 10:10:00 End Time: 15:52:30 Time On Btm: 2012.01.07 @ 11:41:30
 Time Off Btm: 2012.01.07 @ 14:11:30

TEST COMMENT: 1st Open 15 minutes Weak surface blow reached a .5 inch..
 1st Shut in 60 minutes No blow back
 2nd Open 15 minutes Very weak surface blow
 2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2293.76	113.00	Initial Hydro-static
1	48.07	112.17	Open To Flow (1)
16	50.16	112.93	Shut-In(1)
75	666.81	113.96	End Shut-In(1)
76	50.81	113.64	Open To Flow (2)
94	51.23	114.12	Shut-In(2)
150	108.19	115.90	End Shut-In(2)
150	2248.94	117.00	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
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17177 **DST#: 8**
 Test Start: 2012.01.07 @ 10:10:00

Tool Information

Drill Pipe:	Length: 4635.00 ft	Diameter: 3.80 inches	Volume: 65.02 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:	80000.00 lb
			<u>Total Volume: 65.02 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4658.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	68.00 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			4635.00	
Hydraulic Tool	5.00			4640.00	
Jars	6.00			4646.00	
Safety Joint	2.00			4648.00	
Packer	5.00			4653.00	28.00 Bottom Of Top Packer
Packer	5.00			4658.00	
Perforations	35.00			4693.00	
Recorder	1.00	6999	Inside	4694.00	
Recorder	1.00	6663	Outside	4695.00	
Bull Plug	3.00			4698.00	40.00 Bottom Packers & Anchor
Total Tool Length:	68.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G Holl

29-30s-13w-Barber

9431 East Central Suite 100
Wichita Kansas 67206

Lenkner 1-29

Job Ticket: 17177

DST#: 8

ATTN: Frank Greenbaum

Test Start: 2012.01.07 @ 10:10:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 49.00 sec/qt
Water Loss: 9.00 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: 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

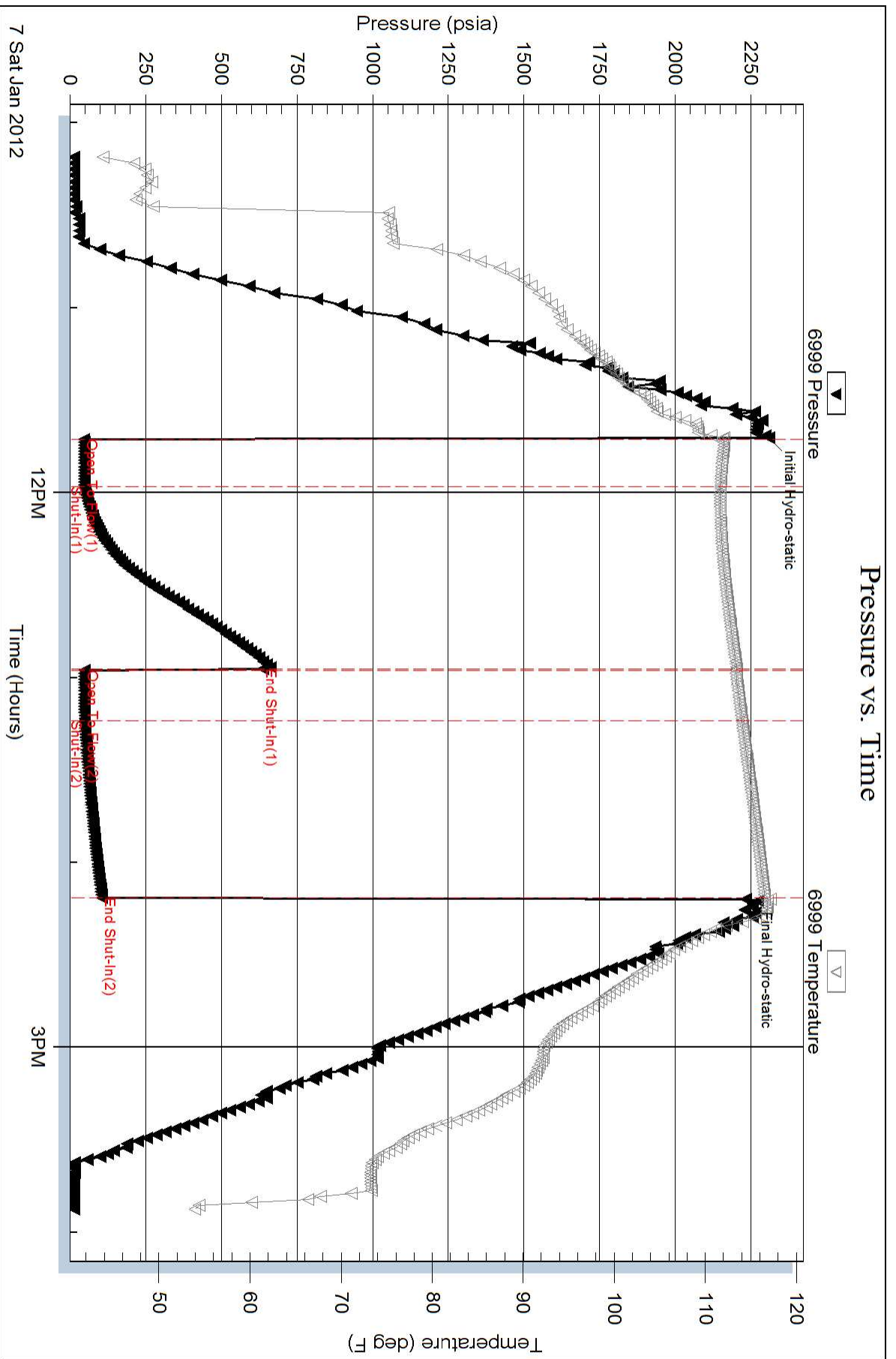
Num Gas Bombs: 0

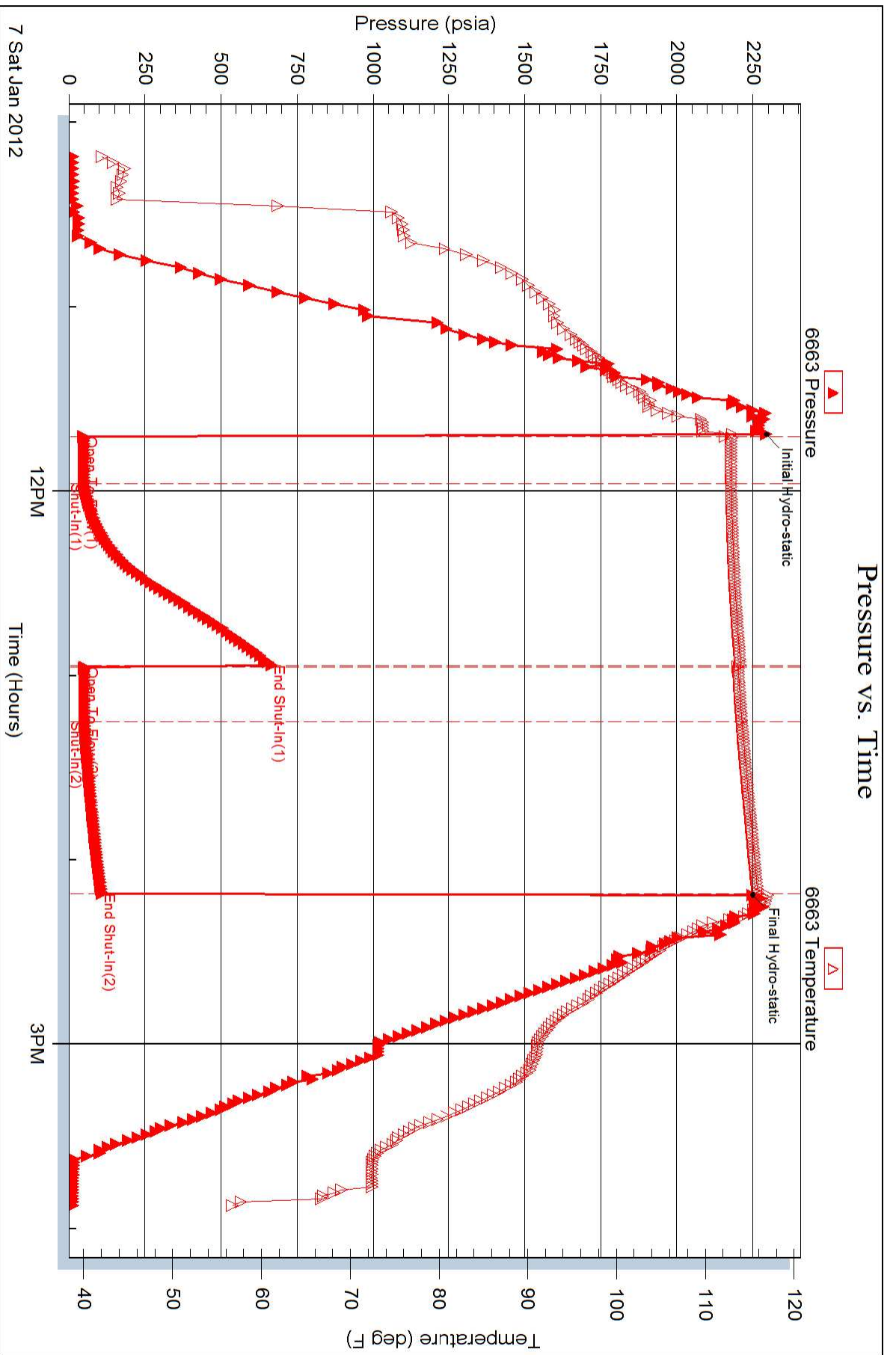
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **F.G Holl**

9431 East Central Suite 100
Wichita Kansas 67206

ATTN: Frank Greenbaum

Lenkner 1-29

29-30s-13w-Barber

Start Date: 2012.01.07 @ 04:35:00

End Date: 2012.01.07 @ 10:54:30

Job Ticket #: 17178 DST #: 9

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

Printed: 2012.01.07 @ 23:07:07

F.G Holl
29-30s-13w-Barber
Lenkner 1-29
DST # 9
Viola
2012.01.07



DRILL STEM TEST REPORT

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

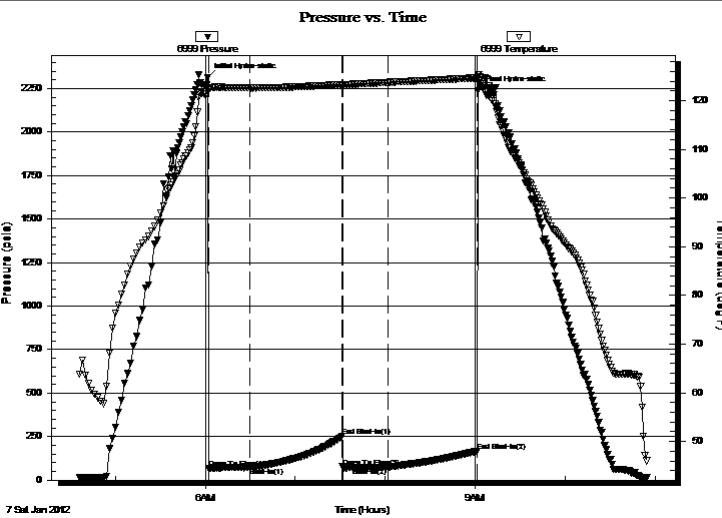
29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17178 **DST#: 9**
 Test Start: 2012.01.07 @ 04:35:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 06:02:00 Tester: Dustin Ellis
 Time Test Ended: 10:54:30 Unit No: 3315-GB-170
 Interval: **4620.00 ft (KB) To 4698.00 ft (KB) (TVD)** Reference Elevations: 1921.00 ft (KB)
 Total Depth: 4698.00 ft (KB) (TVD) 1913.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6999 Inside
 Press @ RunDepth: 75.27 psia @ 4694.08 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.01.07 End Date: 2012.01.07 Last Calib.: 2012.01.07
 Start Time: 04:35:00 End Time: 10:54:30 Time On Btm: 2012.01.07 @ 06:01:30
 Time Off Btm: 2012.01.07 @ 09:02:00

TEST COMMENT: 1st Open 30 minutes Weak blow blew 1.5 inches
 1st Shut in 60 minutes No blow back
 2nd Open 30 minutes Weak surface blow
 2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2317.68	122.61	Initial Hydro-static
1	68.42	122.40	Open To Flow (1)
28	71.28	122.58	Shut-In(1)
90	251.38	123.29	End Shut-In(1)
90	76.23	123.25	Open To Flow (2)
120	75.27	123.72	Shut-In(2)
180	166.49	124.65	End Shut-In(2)
181	2237.65	125.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud 100%	0.35

Gas Rates

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



DRILL STEM TEST REPORT

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

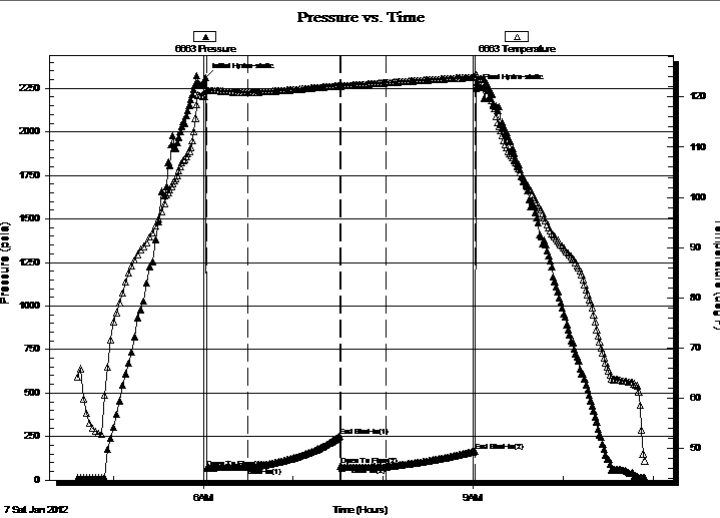
29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17178 **DST#: 9**
 Test Start: 2012.01.07 @ 04:35:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 06:02:00 Tester: Dustin Ellis
 Time Test Ended: 10:54:30 Unit No: 3315-GB-170
 Interval: **4620.00 ft (KB) To 4698.00 ft (KB) (TVD)** Reference Elevations: 1921.00 ft (KB)
 Total Depth: 4698.00 ft (KB) (TVD) 1913.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6663 Outside
 Press @ Run Depth: 167.38 psia @ 4695.08 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.01.07 End Date: 2012.01.07 Last Calib.: 2012.01.07
 Start Time: 04:35:00 End Time: 10:54:30 Time On Btm: 2012.01.07 @ 06:01:30
 Time Off Btm: 2012.01.07 @ 09:02:00

TEST COMMENT: 1st Open 30 minutes Weak blow blew 1.5 inches
 1st Shut in 60 minutes No blow back
 2nd Open 30 minutes Weak surface blow
 2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2312.00	121.46	Initial Hydro-static
1	69.17	121.26	Open To Flow (1)
28	71.99	120.93	Shut-In(1)
90	251.83	122.25	End Shut-In(1)
90	82.95	122.17	Open To Flow (2)
121	76.54	122.83	Shut-In(2)
180	167.38	123.95	End Shut-In(2)
181	2249.66	124.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud 100%	0.35

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17178 **DST#: 9**
 Test Start: 2012.01.07 @ 04:35:00

Tool Information

Drill Pipe:	Length: 4617.00 ft	Diameter: 3.80 inches	Volume: 64.76 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: 64.76 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4620.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	78.08 ft				
Tool Length:	106.08 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			4597.00	
Hydraulic Tool	5.00			4602.00	
Jars	6.00			4608.00	
Safety Joint	2.00			4610.00	
Packer	5.00			4615.00	28.00 Bottom Of Top Packer
Packer	5.00			4620.00	
Perforations	5.00			4625.00	
Change Over Sub	0.75			4625.75	
Drill Pipe	31.58			4657.33	
Change Over Sub	0.75			4658.08	
Perforations	35.00			4693.08	
Recorder	1.00	6999	Inside	4694.08	
Recorder	1.00	6663	Outside	4695.08	
Bull Plug	3.00			4698.08	78.08 Bottom Packers & Anchor

Total Tool Length: 106.08



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G Holl

29-30s-13w-Barber

9431 East Central Suite 100
Wichita Kansas 67206

Lenkner 1-29

Job Ticket: 17178

DST#: 9

ATTN: Frank Greenbaum

Test Start: 2012.01.07 @ 04:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Mud 100%	0.351

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0

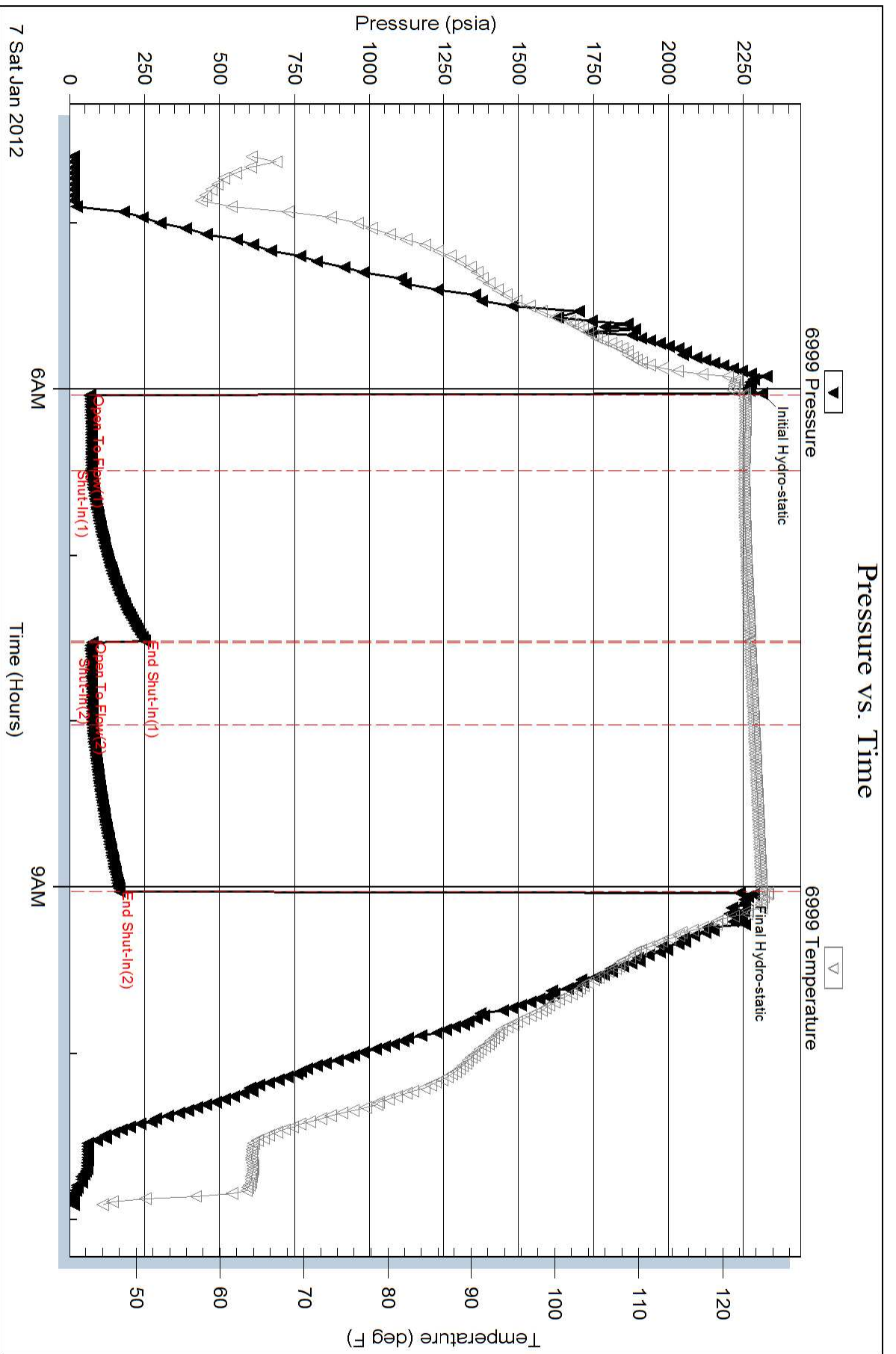
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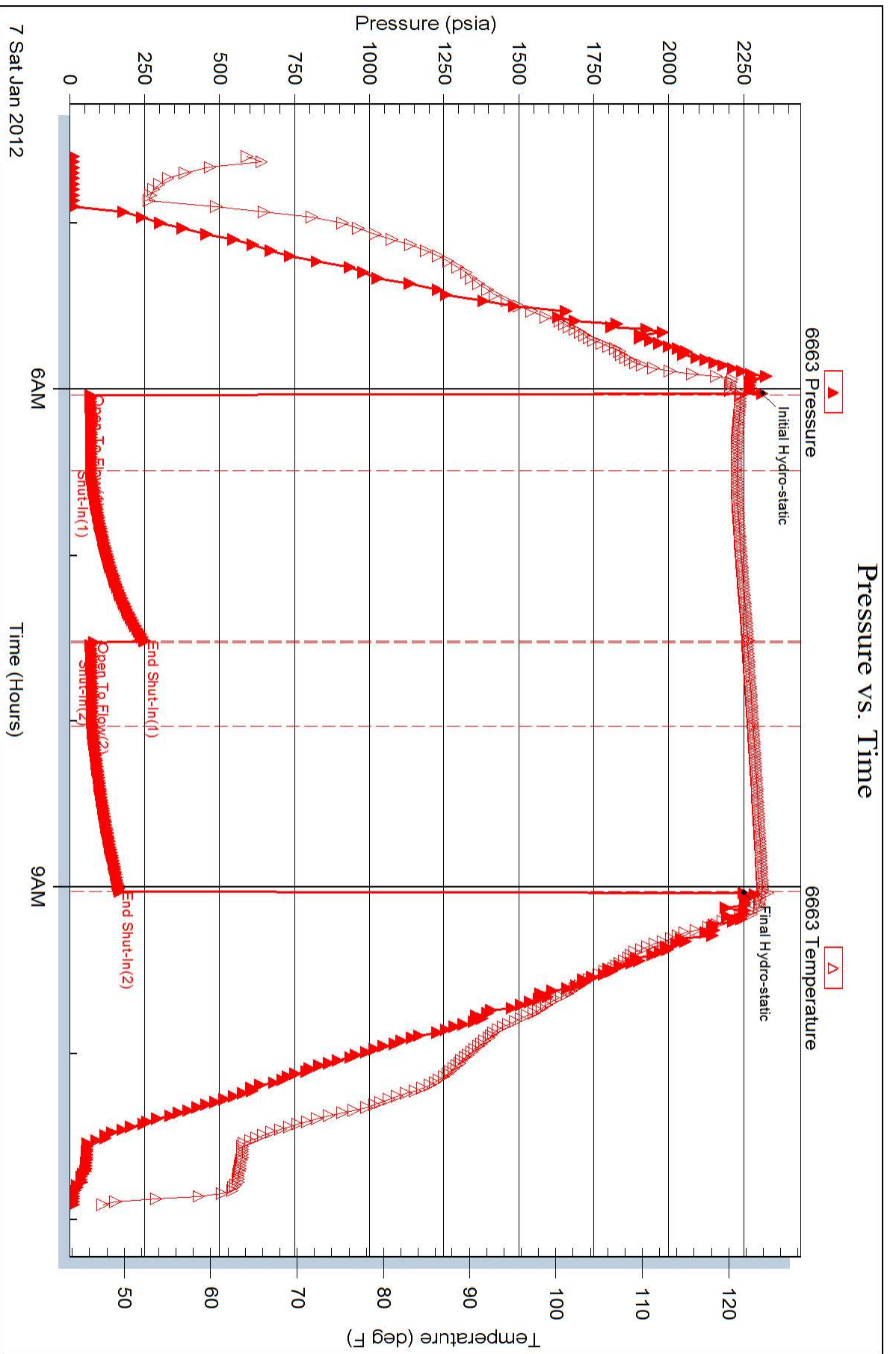
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **F.G Holl**

9431 East Central Suite 100
Wichita Kansas 67206

ATTN: Frank Greenbaum

Lenkner 1-29

29-30s-13w-Barber

Start Date: 2012.01.08 @ 08:08:00

End Date: 2012.01.08 @ 14:49:30

Job Ticket #: 17179 DST #: 10

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

Printed: 2012.01.09 @ 03:31:46

F.G Holl
29-30s-13w-Barber
Lenkner 1-29
DST # 10
Arbuckle
2012.01.08



DRILL STEM TEST REPORT

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

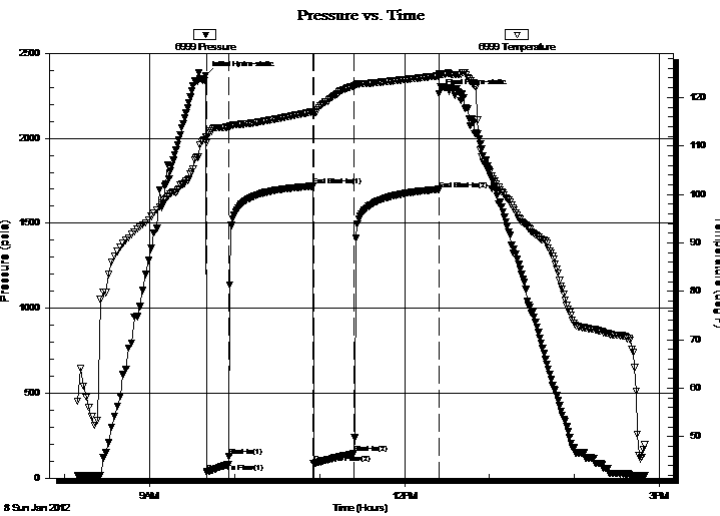
29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17179 **DST#: 10**
 Test Start: 2012.01.08 @ 08:08:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 09:40:00 Tester: Dustin Ellis
 Time Test Ended: 14:49:30 Unit No: 3315-GB -170
 Interval: **4789.00 ft (KB) To 4800.00 ft (KB) (TVD)** Reference Elevations: 1921.00 ft (KB)
 Total Depth: 4800.00 ft (KB) (TVD) 1913.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6999 Inside
 Press @ Run Depth: 145.20 psia @ 4796.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.01.08 End Date: 2012.01.08 Last Calib.: 2012.01.09
 Start Time: 08:08:00 End Time: 14:49:30 Time On Btm: 2012.01.08 @ 09:39:30
 Time Off Btm: 2012.01.08 @ 12:24:30

TEST COMMENT: 1st Open 15 minutes Fair building blow blew 7.5 inches.
 1st Shut in 60 minutes No blow back
 2nd Open 30 minutes Fair building blow built to bottom of bucket in 16 minutes
 2nd Shut 60 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2367.95	111.79	Initial Hydro-static
1	35.24	110.66	Open To Flow (1)
17	128.51	113.90	Shut-In(1)
76	1718.38	117.05	End Shut-In(1)
76	86.62	116.41	Open To Flow (2)
105	145.20	122.34	Shut-In(2)
165	1699.70	124.44	End Shut-In(2)
165	2261.92	124.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Clean oil 100%	0.84
60.00	Oil cut muddy w ater	0.84
0.00	30%oil10%mud60%w ater	0.00
120.00	Salt w ater 5%mud 95% w ater	1.68
0.00	Chlorides 56000	0.00
0.00	Gravity of oil 32 corrected	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

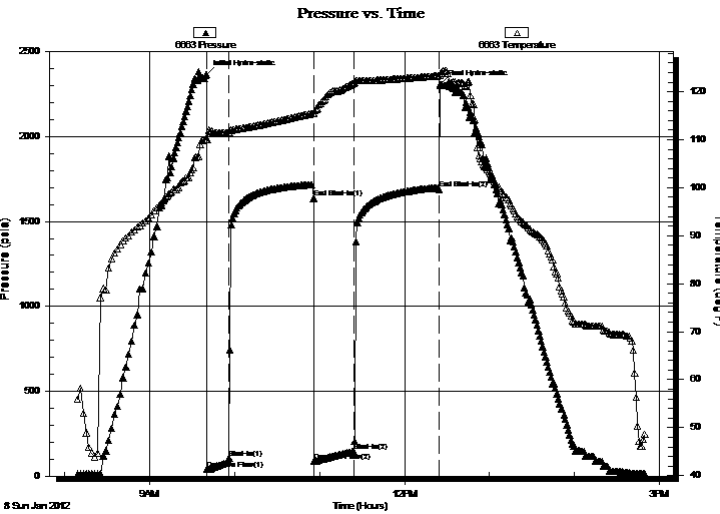
29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17179 **DST#: 10**
 Test Start: 2012.01.08 @ 08:08:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 09:40:00 Tester: Dustin Ellis
 Time Test Ended: 14:49:30 Unit No: 3315-GB -170
 Interval: **4789.00 ft (KB) To 4800.00 ft (KB) (TVD)** Reference Elevations: 1921.00 ft (KB)
 Total Depth: 4800.00 ft (KB) (TVD) 1913.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6663 Outside
 Press @ RunDepth: 1689.84 psia @ 4797.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.01.08 End Date: 2012.01.08 Last Calib.: 2012.01.09
 Start Time: 08:08:00 End Time: 14:50:00 Time On Btm: 2012.01.08 @ 09:40:00
 Time Off Btm: 2012.01.08 @ 12:25:00

TEST COMMENT: 1st Open 15 minutes Fair building blow blew 7.5 inches.
 1st Shut in 60 minutes No blow back
 2nd Open 30 minutes Fair building blow built to bottom of bucket in 16 minutes
 2nd Shut 60 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2365.39	109.94	Initial Hydro-static
1	39.03	110.10	Open To Flow (1)
16	107.01	111.57	Shut-In(1)
76	1637.27	115.53	End Shut-In(1)
76	85.58	115.36	Open To Flow (2)
104	146.45	121.78	Shut-In(2)
165	1689.84	123.33	End Shut-In(2)
165	2305.78	123.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Clean oil 100%	0.84
60.00	Oil cut muddy w ater	0.84
0.00	30%oil10%mud60%w ater	0.00
120.00	Salt w ater 5%mud 95% w ater	1.68
0.00	Chlorides 56000	0.00
0.00	Gravity of oil 32 corrected	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G Holl
 9431 East Central Suite 100
 Wichita Kansas 67206
 ATTN: Frank Greenbaum

29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17179 **DST#: 10**
 Test Start: 2012.01.08 @ 08:08:00

Tool Information

Drill Pipe:	Length: 4792.00 ft	Diameter: 3.80 inches	Volume: 67.22 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: 75000.00 lb
			<u>Total Volume: 67.22 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4789.00 ft			Final 72000.00 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			4766.00	
Hydraulic Tool	5.00			4771.00	
Jars	6.00			4777.00	
Safety Joint	2.00			4779.00	
Packer	5.00			4784.00	28.00 Bottom Of Top Packer
Packer	5.00			4789.00	
Perforations	6.00			4795.00	
Recorder	1.00	6999	Inside	4796.00	
Recorder	1.00	6663	Outside	4797.00	
Bull Plug	3.00			4800.00	11.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G Holl

29-30s-13w-Barber

9431 East Central Suite 100
Wichita Kansas 67206

Lenkner 1-29

Job Ticket: 17179

DST#: 10

ATTN: Frank Greenbaum

Test Start: 2012.01.08 @ 08:08:00

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.60 in³

Gas Cushion Type:

Resistivity: 0.40 ohm.m

Gas Cushion Pressure:

psia

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	Clean oil 100%	0.842
60.00	Oil cut muddy w ater	0.842
0.00	30%oil10%mud60%w ater	0.000
120.00	Salt w ater 5%mud 95% w ater	1.683
0.00	Chlorides 56000	0.000
0.00	Gravity of oil 32 corrected	0.000

Total Length: 240.00 ft

Total Volume: 3.367 bbl

Num Fluid Samples: 0

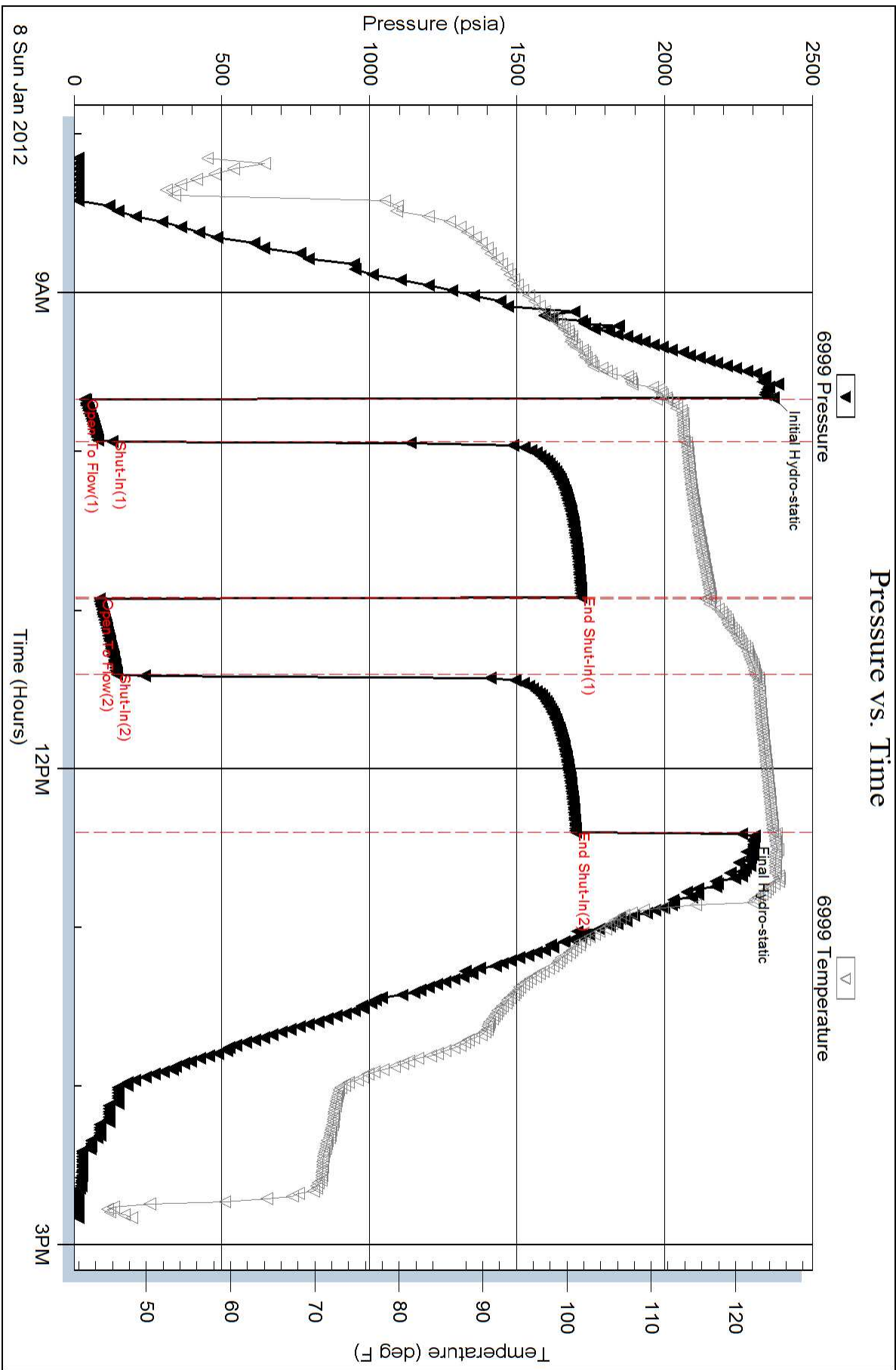
Num Gas Bombs: 0

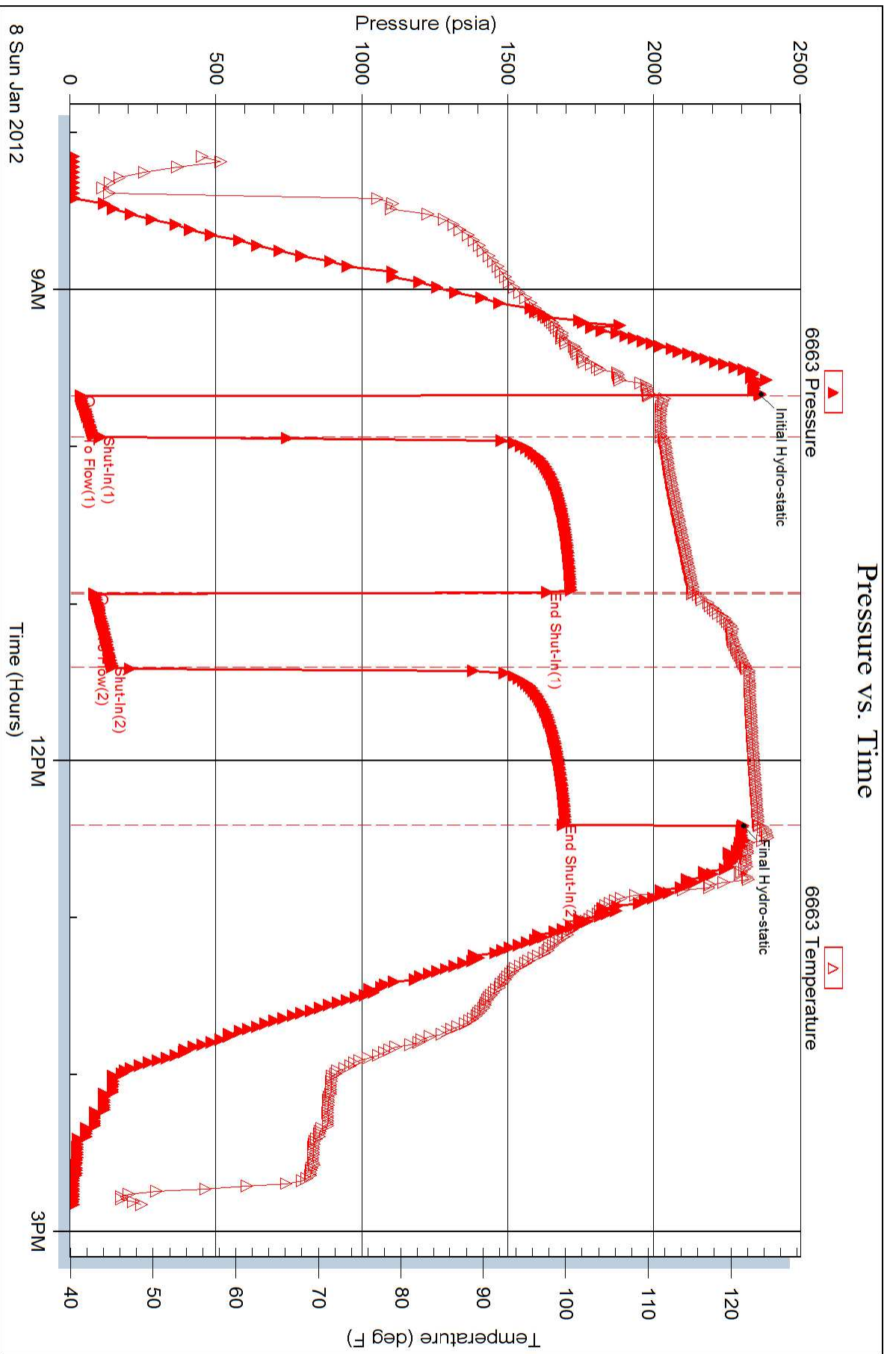
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







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PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 05499 A

DATE _____ TICKET NO. _____

DATE OF JOB 12-27-11 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. B. Hull		LEASE Lenkner		WELL NO. 1-29						
ADDRESS		COUNTY Barber		STATE KS						
CITY		STATE		SERVICE CREW D. J. D. Mott, M. C. G. Mott, M. C. G. Mott						
AUTHORIZED BY		JOB TYPE: C NW - 13 3/8 (C) J. J. J.								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
27083	1						12-26-11			8:30
19903-19905	1					ARRIVED AT JOB	12-26-11			10:00
19960-19918	1					START OPERATION	12-27-11			12:00
						FINISH OPERATION	12-27-11			2:00
						RELEASED	12-27-11			3:00
						MILES FROM STATION TO WELL				20

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

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP101	AC on Blend	SK	175		
CP100	Common	SK	175		
CC102	Cellulose	Lb	88		
CC109	Calcium Chloride	Lb	825		
CS-1707	Basket 13 3/8"	ea	1		
E100	Pickup Mileage	mi	20		
E101	Heavy Equipment Mileage	mi	40		
E113	Bulk Delivery	Tn	330		
CE200	Shale Charge (C-500)	ea	1		
CE240	Blending & Mixing Charge	SK	350		
SU03	Service Supervisor	ea	1		

CHEMICAL / ACID DATA:

SUB TOTAL
DLS

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

TOTAL

SERVICE REPRESENTATIVE Steve Wilko

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY

John W. ...
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer <u>F.L. Hall</u>		Lease No.		Date <u>10/27/11</u>	
Lease <u>Leakwell</u>		Well # <u>1-27</u>			
Field Order # <u>5495</u>	Station <u>Pratt</u>	Casing <u>13 3/8</u>	Depth <u>265</u>	County <u>Barber</u>	State <u>KS</u>
Type Job <u>CNW-13 3/8 Conductor</u>			Formation	Legal Description <u>29-36-13</u>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <u>13 3/8</u>	Tubing Size	Shots/Ft	<u>175 sb</u>	Acid <u>Acid Blo @ 175</u>	RATE	PRESS	ISIP	
Depth <u>265</u>	Depth	From	To <u>175 sb</u>	Pre Pad <u>Comma @ 1.20</u>	Max		5 Min.	
Volume <u>41.2</u>	Volume	From	To	Pad	Min		10 Min.	
Max Press <u>200</u>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <u>FL</u>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <u>255</u>	Packer Depth	From	To	Flush <u>4</u>	Gas Volume		Total Load	

Customer Representative <u>John Ambrose</u>	Station Manager <u>David Scott</u>	Treater <u>Steve Orlowski</u>
---	------------------------------------	-------------------------------

Service Units	<u>07723</u>	<u>19903</u>	<u>19905</u>	<u>19960</u>	<u>19913</u>				
Driver Names	<u>Dileno</u>	<u>Matt</u>	<u>McLarty</u>	<u>Young</u>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<u>10:30</u>					<u>On location - Safety Meeting</u>
					<u>Run 75 13 3/8 Conductor</u>
					<u>Basket @ 22#</u>
					<u>Comma @ 1.20</u>
<u>2:00</u>	<u>200</u>		<u>60</u>	<u>5</u>	<u>Min 175 sb Acid Blo @ 13 3/8</u>
<u>2:14</u>	<u>200</u>		<u>37</u>	<u>5</u>	<u>Min 175 sb Comma @ 1.20</u>
<u>2:23</u>	<u>200</u>		<u>1</u>	<u>11</u>	<u>Start H2O Displacement</u>
<u>2:24</u>	<u>200</u>		<u>7</u>	<u>11</u>	<u>Return to Surface</u>
<u>2:30</u>	<u>200</u>		<u>300</u>	<u>11</u>	<u>Prep for Completion</u>
					<u>Comma @ 1.20</u>
					<u>Run 75 13 3/8</u>
					<u>Basket @ 22#</u>
					<u>Comma @ 1.20</u>
					<u>Job Comp.</u>
					<u>Thank Steve</u>



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PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 05500 A

DATE _____ TICKET NO. _____

DATE OF JOB 12-28-11 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. L. Hull		LEASE Len Kner				WELL NO. 129				
ADDRESS		COUNTY Barber		STATE KS						
CITY STATE		SERVICE CREW Orlando, Mitchell, McLanahan, McGraw								
AUTHORIZED BY		JOB TYPE: CNW - 8 5/8 Surface								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
27283	1						12-27-11			8:00
27463	1					ARRIVED AT JOB	12-27-11			10:00
19826-19860	1					START OPERATION	12-28-11			1:00
19831-19862	1					FINISH OPERATION				4:00
						RELEASED				11:00
						MILES FROM STATION TO WELL				20

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

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP101	ACON Blend	SK	280		
CP100	Common	SK	175		
CP100	Common	SK	175		
CC102	Cellulose	Lb	158		
CC109	Calcium Chloride	Lb	1617		
CS105	TOP Rubber Plug 8 5/8"	ea	1		
CS753	Baffle Plate Aluminum 8 5/8"	ea	1		
CS1753	Centrator 8 5/8"	ea	3		
CS1903	Bucket 8 5/8"	ea	1		
E100	Pickup Mileage	m.	20		
E101	Heavy Equipment Mileage	m.	60		
E113	Bulk Delivery	Tm	594		
CE201	Depth Charge 501-1000'	ea	1		
CE240	Bleeders & Mixing Charge	SK	630		
CE504	Plug Sealers	ea	1		
S003	Service Supervisor	ea	1		

SUB TOTAL
DLS

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE Steve Bledsoe	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY <i>John D. ...</i> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
FIELD SERVICE ORDER NO.	

Customer	F. B. Hoff	Lease No.		Date	10-28-1
Lease	Ken Kass	Well #	1-29	County	Barber
Field Order #	5500	Station	Pratt	Depth	
Type Job	CNW-8 5/8 Surf	Formation		Legal Description	Q9-300'

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft				RATE	PRESS	ISIP
2 7/8		280	Acid	A Cor Bond				5 Min.
Depth	Depth	From	To	Pre Pad		Max		10 Min.
			175	Pad	3 1/2 1/4"	Avg		15 Min.
Volume	Volume	From	To	Frac		HHP Used		Annulus Pressure
					58	Gas Volume		Total Load
Max Press	Max Press	From	To	Flush	606			
Well Connection	Annulus Vol.	From	To					
Plug Depth	Packer Depth	From	To					

Customer Representative	John Ambrose	Station Manager	Drew Smith	Treater	Steve Orland	
Service Units	07077	07463	19831	19863	19884	19860
Driver Names	De... ..	M... ..	M... ..	M... ..		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:00 AM					On location - Safety meeting
					Run 22 5/8 8 5/8 Casing 954'
					Centralizer @ 900' - 300' - 200'
					Back - Above Centralizer @ 200'
	300		105	5	Mix 280 sks A Cor Bond 12.6" casing
11:00 AM	400		58	5	Mix 275 sks Common 2 1/2" @ 13.6"
					Shot Down - Release plug
	300		0	4	Start H2O Displacement
2:00 PM	400		58	3	Plug Down to Ball
					Circulation During Job
					No Cement To pit
3:15 PM	100		16	1 1/2	Mix 250 sks Common Prev 1" Tubing
					Cement in 13 3/8 holding
					Job Complete
					Thanks Steve



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PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 05514 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>1-10-2012</u> DISTRICT <u>PRATT, Ks.</u>				NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:					
CUSTOMER <u>FG HOLL CO. LLC</u>				LEASE <u>LENKNER</u>		WELL NO. <u>1-29</u>			
ADDRESS				COUNTY <u>BARBER</u>		STATE <u>Ks.</u>			
CITY				SERVICE CREW <u>LESLEY, LAWRENCE, MARQUEZ</u>					
AUTHORIZED BY				JOB TYPE: <u>CNW - 5 1/2" L.S.</u>					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>37586</u>	<u>4</u>						<u>1-10-12</u>		<u>7:30</u>
<u>27463</u>	<u>4</u>					ARRIVED AT JOB		AM	<u>8:30</u>
<u>19432-21010</u>	<u>4</u>					START OPERATION		PM	<u>2:30</u>
						FINISH OPERATION		PM	<u>6:30</u>
						RELEASED		PM	<u>7:30</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).

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SIGNED: [Signature]
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	AA2 CEMENT	SK	125		
CP 103	60/40 P22	SK	75		
CC 102	CELL-FLAKE	lb	32		
CC 105	DE-FOAMER	lb	30		
CC 111	SALT	lb	562		
CC 115	GAS-BLOK	lb	118		
CC 129	FLA-322	lb	118		
CC 201	GILSONITE	lb	1625		
CF 607	CATCHDOWN PLUG & BAFFLE, 5 1/2"	EA	1		
CF 1251	AUTO FILL FLOAT SHOE, 5 1/2"	EA	1		
CF 1651	TURBOLIZER, 5 1/2"	EA	6		
CF 1901	BASKET, 5 1/2"	EA	1		
CF 2002	CEM. SCRATCHERS - ROTATING TYPE	EA	30		
CC 154	SUPER FLUSH	GAL	500		
E 100	PICKUP MILEAGE	MI	20		
E 101	HEAVY EQUIPMENT MILEAGE	MI	40		
E 113	BULK DELIVERY CHARGE	TM	183		

CHEMICAL / ACID DATA:			

SUB TOTAL		<u>DLS</u>	
SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
TOTAL			

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



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ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 05515 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>1-10-2012</u> DISTRICT <u>PRATT, Ks.</u>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER <u>FG HOLL CO. LLC</u>		LEASE <u>LENKNER</u> WELL NO. <u>1-29</u>							
ADDRESS		COUNTY <u>BARBER</u> STATE <u>Ks.</u>							
CITY STATE		SERVICE CREW <u>LESLEY, LAWRENCE, MARQUEZ</u>							
AUTHORIZED BY		JOB TYPE: <u>CNW-5 1/2" L.S.</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>37586</u>	<u>4</u>					<u>1-10-12</u>	<u>7:30</u>	AM	<u>7:30</u>
<u>27463</u>	<u>4</u>					ARRIVED AT JOB		AM	<u>8:30</u>
<u>19832-21010</u>	<u>4</u>					START OPERATION		AM	<u>2:30</u>
						FINISH OPERATION		PM	<u>6:30</u>
						RELEASED		PM	<u>7:30</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).

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SIGNED: [Signature]
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<u>CE 205</u>	<u>DEPTH CHARGE 4000'-5000'</u>	<u>HR</u>	<u>1-4</u>		
<u>CE 240</u>	<u>BLENDING SERVICE CHARGE</u>	<u>SK</u>	<u>200</u>		
<u>CE 501</u>	<u>CASING SWIVEL RENTAL</u>	<u>EA</u>	<u>1</u>		
<u>CE 504</u>	<u>PLUG CONTAINER CHARGE</u>	<u>JOB</u>	<u>1</u>		
<u>S 003</u>	<u>SERVICE SUPERVISOR</u>	<u>EA</u>	<u>1</u>		

CHEMICAL / ACID DATA:			

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

SUB TOTAL
DLS

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

FIELD SERVICE ORDER NO. _____

Customer FG HOLL CO.	Lease No.	Date 1-10-2012
Lease LENKNER	Well # 1-29	
Field Order # 05514	Station PRATT, KS.	Casing 5 1/2" Depth
Type Job CNW - 5 1/2" L.S.	Formation TD-4950'	County BARBER State Ks.
		Legal Description 29-30-13

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size'	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2			CMT-	125SK AA2				5 Min.
Depth 4945.12	Depth	From	To	Pre Pad @ 1.43 CUFT ³	Max			10 Min.
Volume 117.69 BBL	Volume	From	To	Pad	Min			15 Min.
Max Press 1500	Max Press	From	To	Frac	Avg			Annulus Pressure
Well Connection P.C.	Annulus Vol.	From	To		HHP Used			Total Load
Plug Depth 4929.95	Packer Depth	From	To	Flush 117 BBL	Gas Volume			

Customer Representative ROB LONG	Station Manager D. SCOTT	Treater K. LESLEY		
Service Units	37586	27463	19832	21010
Driver Names	LESLEY	AURENCE	MARQUEZ	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
8:30 AM					ON LOCATION - SAFETY MEETING
12:00 PM					SPOT TRUCKS ON LOCATION
12:30 PM					RUN 5 1/2" x 15.5# CSG.
					TURBO - 2, 3, 4, 5, 6, 7
					BASK - #5
2:20 PM					CSG. ON BOTTOM
2:30 PM					HOOK UP TO CSG. / BREAK CIRC. W/RIG
5:30 PM	300		5	6	H ₂ O AHEAD
5:40 PM	250		12	6	SUPERFLUSH
5:59 PM	250		5	6	H ₂ O SPACER
6:00 PM	250		5	6	MIX 25SK 60/40 P02 SCAV. @ 12.0 PPG
6:04 PM	200		32	6	MIX 125SK AA2 @ 15.0 PPG
6:10 PM					CLEAR PUMP & LINE / DROP PLUG
6:15 PM	0		0	7	START DISPLACEMENT
6:25 PM	200		90	6	LIFT PRESSURE
6:28 PM	500		105	5	SLOW RATE - KICK OUT ROTATION
6:30 PM	1500		117	4	PLUG DOWN - HELD
					CIRC. THRU JOB
			6, 4		PLUG R.H. & N.H.
					JOB COMPLETE,
					THANKS -
					KEVEN LESLEY