

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs 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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top _____ Bottom _____
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	GBF "A" 1-2
Doc ID	1440726

All Electric Logs Run

Microresistivity
CNL/CDL
BHCS
Fracfinder
DIL

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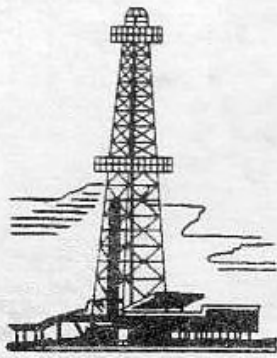
Tops

Name	Top	Datum
Herrington	1757	+138
Winfield	1806	+89
Towanda	1886	+9
Ft Riley	1910	-15
Florence	1968	-73
B/Florence	2010	-115
Kinney Ls	2032	-137
Wrefield	2065	-170
Council Grove	2083	-188
Crouse	2121	-226
Bader	2176	-281
Cottonwood	2213	-318
Neva	2264	-369
Red Eagle	2330	-435
Onaga Shale	2472	-577
Wabaunsee	2496	-601
Root Shale	2551	-656
Langdon Sand	2566	671
Stotler	2614	-719
Willard Sand	2638	-743
Tarkio	2672	-777
White Cloud	2781	-886
Howard	2809	-914
Severy Shale	2834	-939

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Tops

Name	Top	Datum
Topeka	2843	-948
Queen Shale	2976	-1081
King Shale	3044	-1149
Heebner	3134	-1239
Toronto	3150	-1255
Douglas Shale	3164	-1269
Brown	3225	-1330
Lansing	3239	-1344
BKC	3462	1567
Arbuckle	3458	-1663
RTD	3700	-1805
LTD	3698	-1803



WELLSITE GEOLOGIST'S REPORT

J. R. Hustead
Consulting Geologist



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

Well Name: GBF 'A' #1-2
Well Id:
Location: SEC 2-T19S-R14W
License Number: 15-009-26247-00-00
Spud Date: JAN 10 2019
Surface Coordinates: 1100' FEL AND 1525' FSL 110' W 125'S OF SW NE SE
Region: Barton
Drilling Completed: JAN 19-2019

Bottom Hole Coordinates:	Vertical Hole	
Ground Elevation (ft):	1887'	K.B. Elevation (ft): 1895'
Logged Interval (ft):	1650' To: 3700'	Total Depth (ft): 3700'
Formation:	Kansas City, Arbuckle	
Type of Drilling Fluid:	Starch, Chemical Premix (Displaced)	

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

OPERATOR:

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

DRILLING CONTRACTOR:

Duke Drilling Company, Rig #2
DOUBLE DERRICK ; DRILL PIPE 4.5 X HX(16.6 #); COLLARS 6.25X 2.25 X 471'; BIT #1; 12.25 JZ 1023017 ;
JETS 18-18-18
BIT #2 7 7/8 HA23-X 10807111 ; JETS 15-15-15
REFERENCE DATUM 8 FT ABOVE GROUND LEVEL; TOOLPUSHER; DION VASQUEZ

SURFACE CASING:

-SURFACE CASING 8 5/8 IN WT 23 LB SET AT 856 FT WITH 350 SACS OF CEMENT
-PRODUCTION CASING 4.5 IN WT 10.5 LB AT 3697 FT WITH 155 SACS OF CEMENT

CIRCULATION SYSTEM:

IDECO MM 550 DUPLEX 6.0 X 15 stroke, 60 SPM, 850 PSI; STEELE PITS; MUD-CO/SERVICE MUD JASON
WHITING 620-282-0556

GAS DETECTION SYSTEM:

MBC WELL LOGGING AND LEASING
ANALOG HOTWIRE

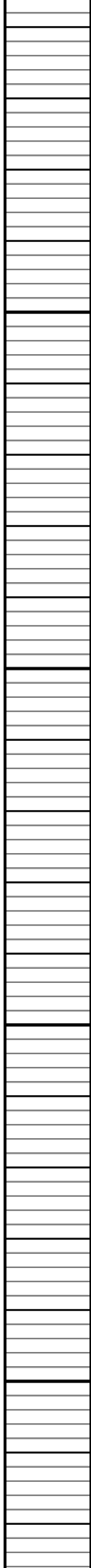
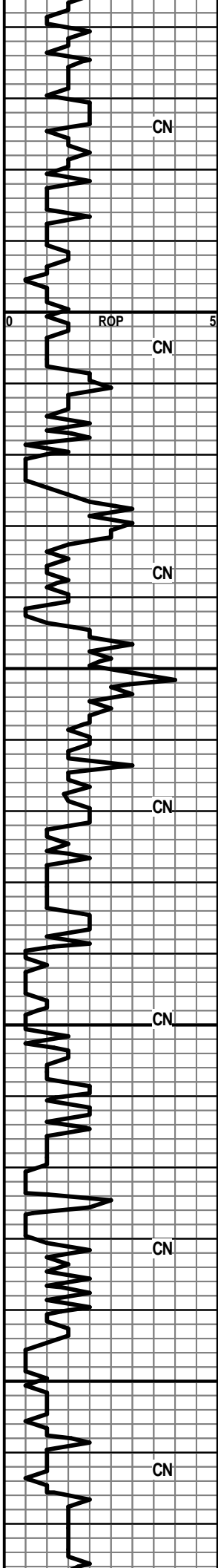
OPEN HOLE LOGS:

DN(PE),DI (SP),ML:SONIC,FRACFINDER; PIONEER ENERGY SERVICES ;HAYS, KANSAS; RECORDED BY D. SCHMIDT

COMPLETION:

PRODUCTION IN LANSING/KC

ROP ROP (min/ft)	DST	Lithology	Porosity and Show MD	Geological Descriptions	TG, C1-C4 / REMARKS
0 ROP 5			16		
			1650		
			1700		
			1750		



1800

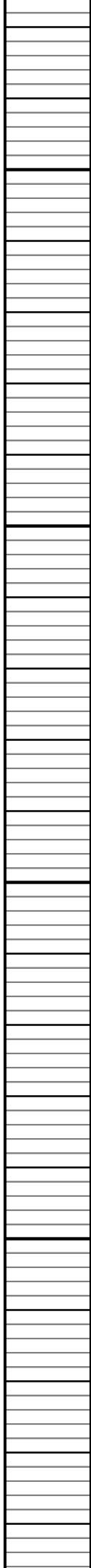
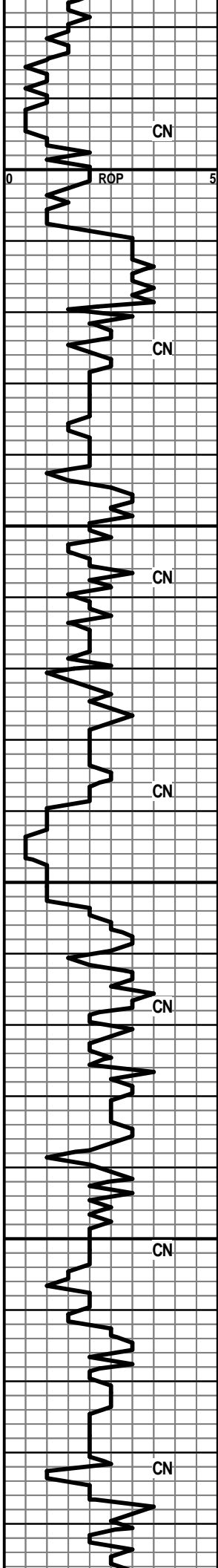
1850

1900

1950

MUD DATA @ 1770'
WT.9.0
VIS 50

MUD DATA @ 1875'
WT. 9.1
VIS 48

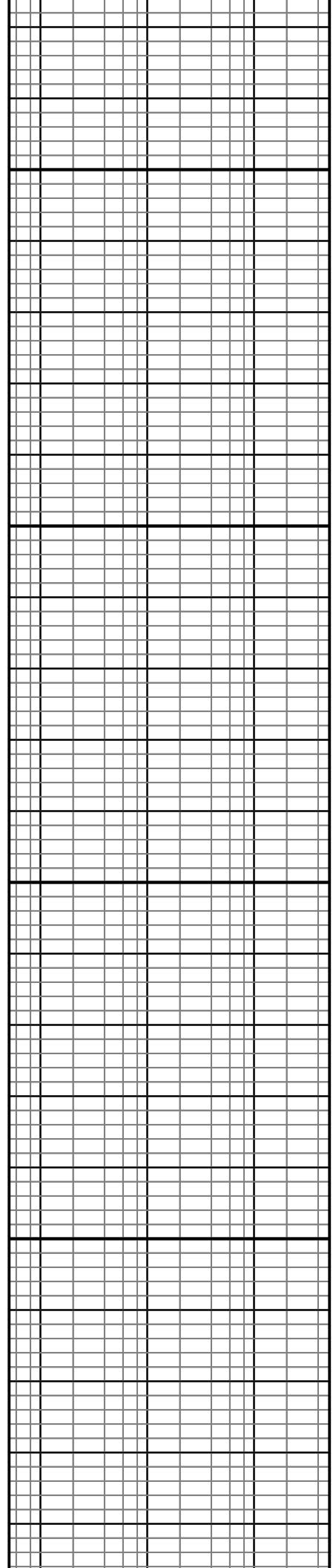


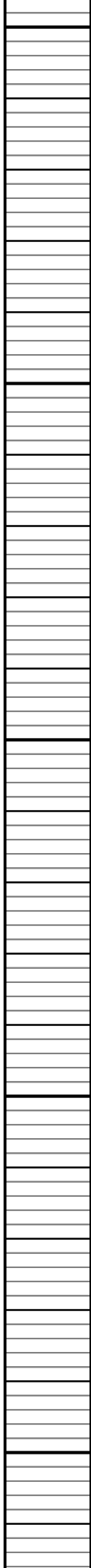
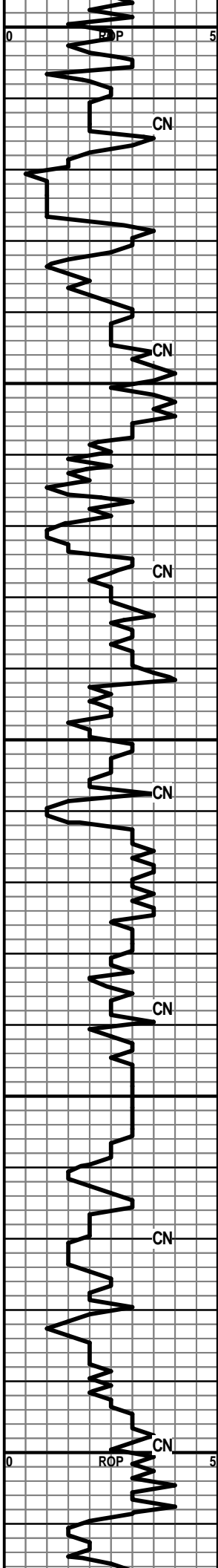
2000

2050

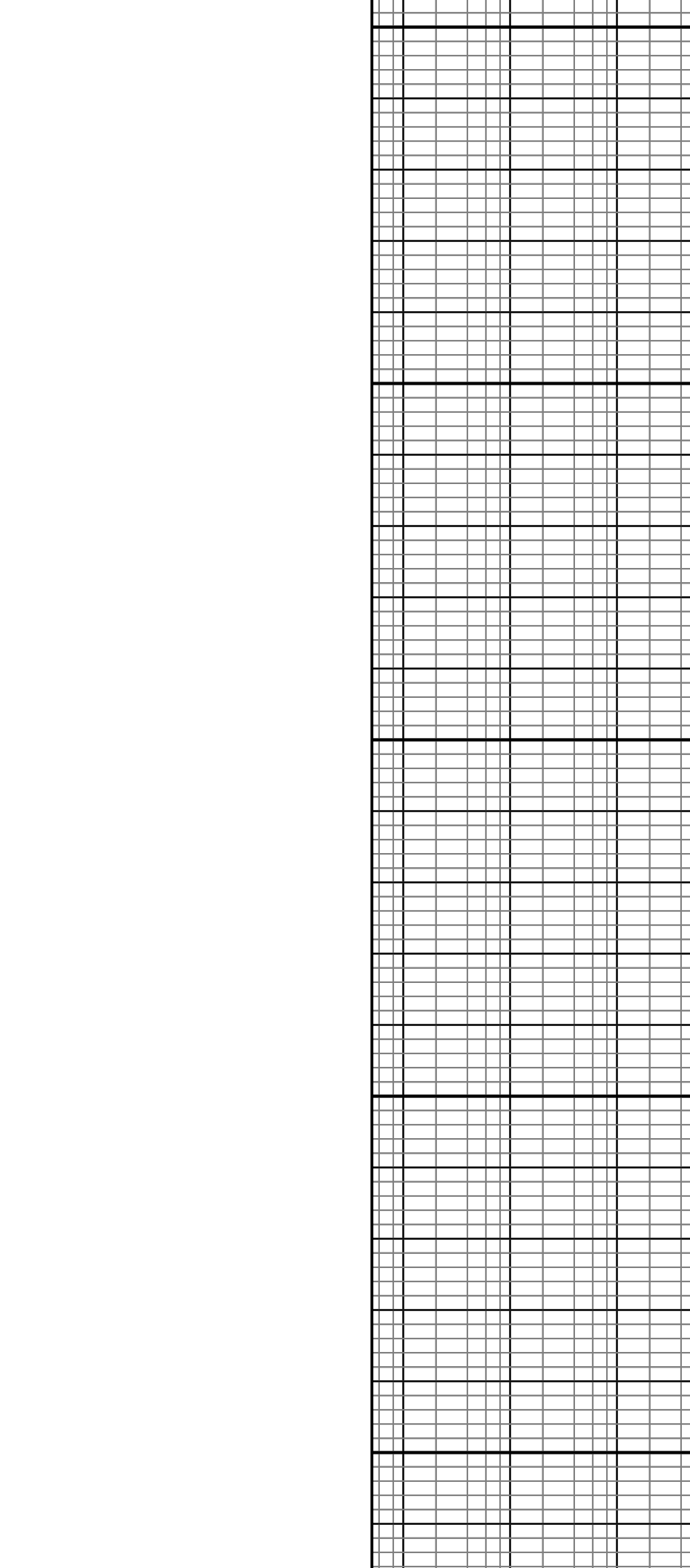
2100

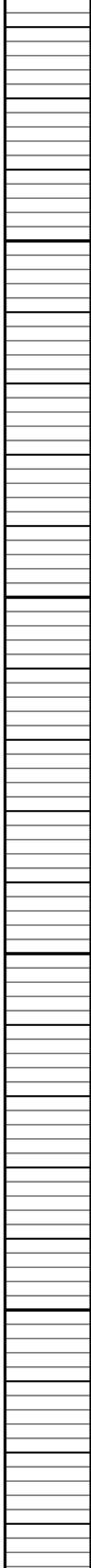
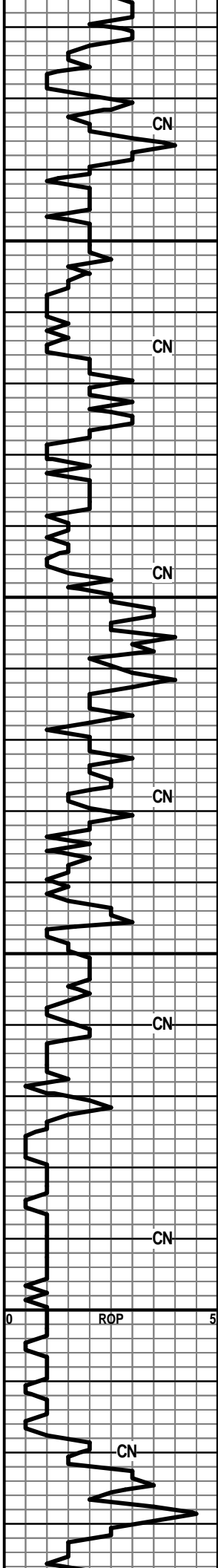
2150





2400 2350 2300 2250 2200





2450

2500

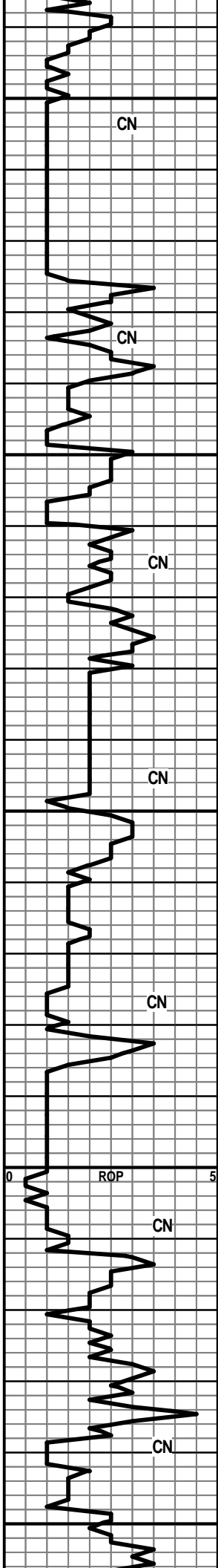
2550

2600

STOTLER 2622' (-727')

STARCH MUD
DISPLACED TO
CHEMICAL MUD @
2591'

KB= 1895'



2650

TARKIO 2676' (-781')

2700

MUD DATA
WT. 8.8
VIS 58

2750

HOT WIRE GAS
DETECTOR NOT
WORKING /REPAIRED
GAS MACHINE AT 2775'

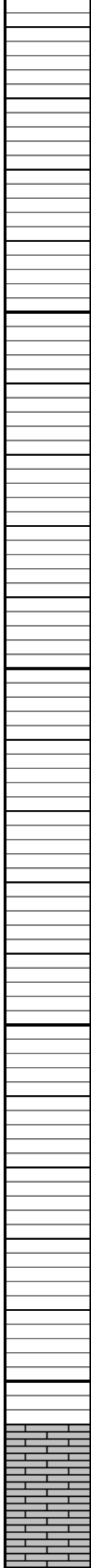
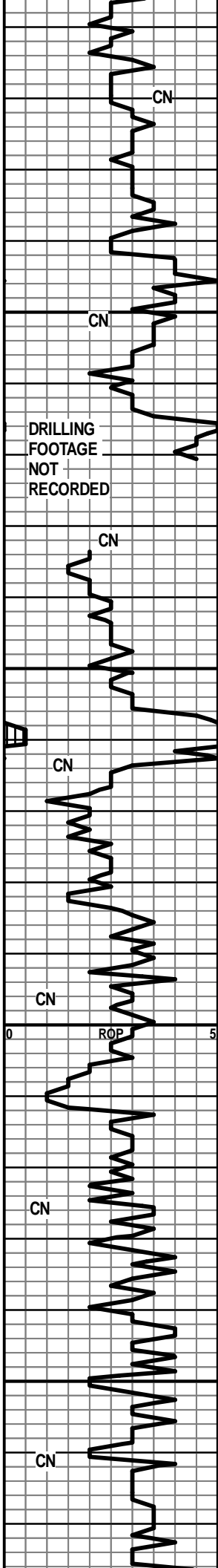
2800

MUD DATA
WT. 8.8
VIS 52

HOWARD 2812' (-917')

2850

TOPEKA



2900

2950

3000

3050

MUD DATA
WT. 8.8
VIS 52

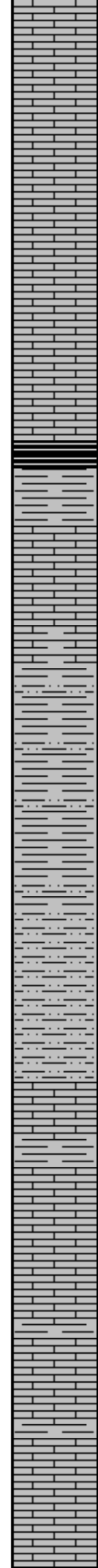
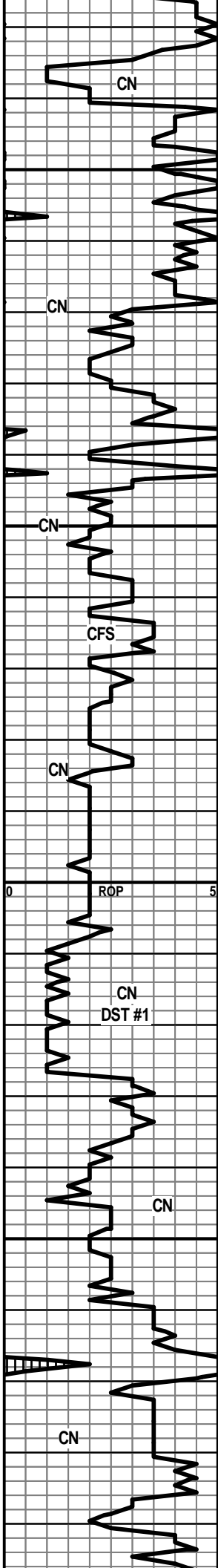
MUD DATA
WT. 8.5
VIS 47

MUD DATA
WT. 8.9
VIS 49

STRAIGHT HOLE SURVEYS

DEPTH	DEG
524'	3/4
850'	3/4
3300'	1
3560'	1

NOTE: STRAP @ 3057'
30 FT OFF/DEPTH
CORRECTION



LS-CRM-F-XLN-OOL-FR TO GD OOL-MOLDIC
 POR-SCATT DULL WHT MIN FLOR-NO VIS OIL SHOW

3100 LS-TN-F-XLN-HD-DNS TR PYR-NO VIS SHOW
 LS-CRM-F-XLN-HD-DNS TR SH IMBD

LS-TN-F-XLN-FOSS-OOL-FR VUG AND PP POR-DULL
 YEL FLOR-NO VIS SHOW

HEEBNER 3138' (-1243')
 SH-BLK-CARB

TORONTO 3150' (-1255')
 LS-OFF WHT-F-XLN-VUG-DK BLK STN-DULL YEL
 FLOR-GD STRM CUT-V-FNT ODOR
 LS-OFF WHT-F-XLN-BRIT-CHLKY-NO VIS POR-NO VIS
 SHOW

DOUGLAS SH 3164' (-1269')
 SH-GRY-SFT-SILTY
 SH A.A.
 SH-GRY/RED-BLKY-SILTY

3200 SLTSS-FRSTY-GRY-F-GRN-SHLY-HEM
 SLTSS A.A.

BROWN LS 3227' (-1332')
 LS-TN-F-XLN-HD-DNS

LANSING/KC 3240' (-1345')
 LS-CRM-F-XLN-FR INTER-XLN POR-TR LT BRN STN -NO
 VIS FLOR-TR FR STRM CUT-FNT ODOR

3250 LS-TN-F-XLN-HD-DNS
 LS A.A.
 LS-TN/GRY-F-XLN-FOSS-OOL-PR INTER-XLN POR-NO
 VIS FLOR-NO VIS CUT
 LS-OFF WHT/GRY-F-XLN-TR FOSS-TR OOL-ISO SMALL
 VUG POR-LT BRN STN-NO VIS FLOR-GD STRM CUT-V
 FNT ODOR

10 UNIT GAS INCRS.

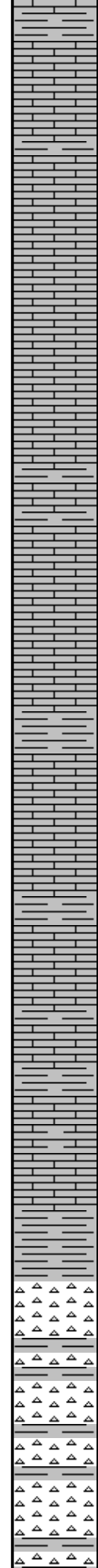
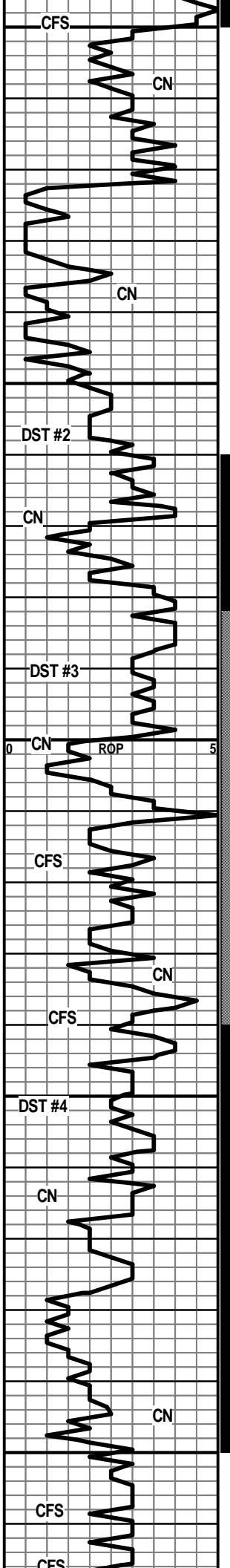
40 UNIT GAS INCRS.

10 UNIT GAS INCRS

DST #1
 3230'-3300'
 REC-15 FT DRILLING
 MUD
 IBLW-WK BLW 3 MIN
 AND DIED
 FBLW-NO BLW
 15/30/15/30
 SIP-279-259
 IFP-89-95
 FFP-100-144
 HP-1642-1622

20 UNIT GAS INCRS

5 UNIT GAS INCRS



3300
3350
3400
3450
3500

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

LS-GRY-F-XLN-BRIT-FOSS-TR OOL-SHLY IP-NO VIS
FLOR-NO VIS CUT-NO ODOR-3 UNIT GAS INCRS

LS-OFF WHT/GRY-F-XLN-TR FOSS-BLOCKY-HD-DNS
-DULL YEL FLOR-NO VIS SHOW OF OIL-NO ODOR

LS-CRM-F-XLN-OOL-GD OOL-MOLDIC POR-SSFO

LS-CRM-F-XLN-OOL-GD OOL-MOLDIC POR-NO VIS
SHOW

LS-CRM-F-XLN-OOL-PR OOL-MOLDIC POR-TR LT BRN
STN-NO VIS FLOR-FR STRM CUT-FNT ODOR

LS-CRM-F-XLN-TR OOL-HD-DNS W/ CHRT-TRANS
-FRSH

LS-TN-F-XLN-FOSS-OOL-GD OOL-MOLDIC AND
INTER-PRT POR-LT BRN STN-YEL GLD FLOR-GD STRM
CUT-STRNG ODOR SSFO

LS-OFF WHT-F-XLN-HD-TR DK BLK STN-NO VIS
FLOR-PR STRM CUT-NO ODOR

LS-OFF WHT-F-XLN-CHLKY IP-DK BLK STN-NO VIS
FLOR-FR STRM CUT-NO ODOR

SH-RED-SFT-SILTY

LS-CRM-F-XLN-TR VUG POR-TR LT BRN STN

LS-CRM-F-XLN-OOL-FR VUG AND INTER-PRT POR-LT
BRN STN-NO VIS FLOR-GD STRM CUT-NO ODOR

LS-OFF WHT/GRY-F-XLN-OOL-NO VIS POR-NO VIS
SHOW

**BASE OF THE KANSAS CITY 3461'
(-1566')**

SH-GRY-FRM-BLKY

Conglomerate 3476' (-1581')

CHRT-VARIG-OPQ-FRSH W/ SSFO

CHRT-RED-YEL-VARIG-TRANS/OPQ AA
SH-GRY-FRM-BLKY

CHRT A.A.

SH-RED-SFT-SILTY-W/ CHRT VARIG-NO VIS STN OR

3 UNIT GAS INCRS

5 UNIT GAS INCRS

DST #2
3360'-3381'
REC-2000' FT GIP-AND
95 FT SLI MUD
CUT/GASSEY/OIL
IBLW-GD BLW BOB IN 6
MIN
FBLW-GD BLW BOB IN
6 MIN
10/60/60/90
SIP-1100-1042
IFP-51-58
FFP-54-78
HP-1679-1650

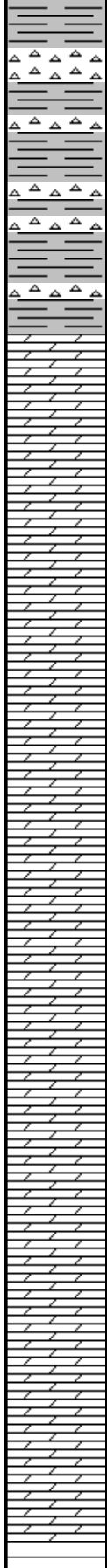
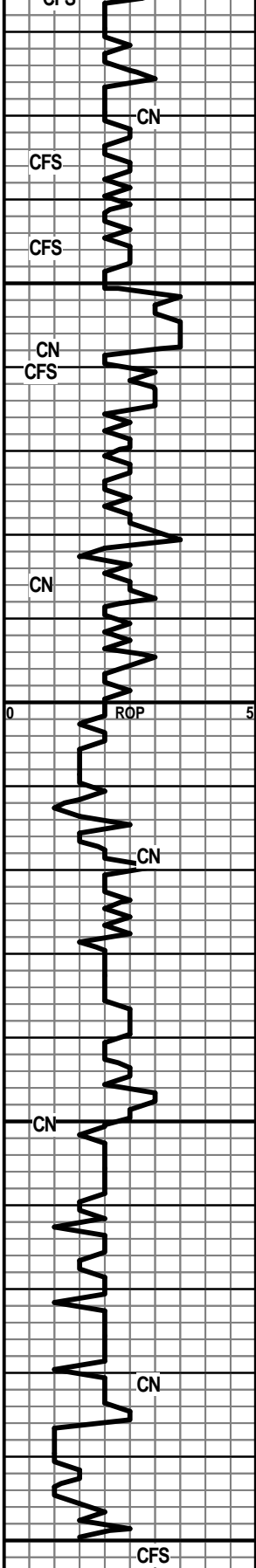
40 UNIT GAS INCRS
GAS OFF CHART DUE
TO OIL RECOVERY DST
#2

MUD DATA @ 3381
WT. 9.1
VIS-57
FIL-6.4
LCM-0

DST #3
3382'-3440'
REC-90FT MUD
IBLW-WK 1.2 IN BLW
DECR TO WK SURF
BLW
FBLW-WK SURF BLW
30/60/30/60
SIP-1046-950
IFP-61-88
FFP-94-111
HP-1758-1698

DST #4
3440'-3500'
REC-75 FT MUD
IBLW-WK BLW
THRU-OUT
FBLW-WK
BLW-THRU-OUT
15/30/15/60
SIP-812-610
IFP-61-107
FFP-92-100
HP-1765-1731

HOTWIRE 40 UNIT GAS
INCRS



3550
3600
3650
3700

SH-RED'GRY-W/ CHRT-VARIG-TRANS-FRSH NO VIS STN OR SHOW

SH AND CHRT A.A.

SH-RED/GRN-V-SFT-SILTY-W/ CHRT-VARIG-FRSH

SH-GRY-SPLNTY-W/ CHRT-RED/VARIG

ARBUCKLE 3556' (-1661)

SH-GRY-BLK-SPLNTY-W/ CHRT-VARIG-NO VIS SHOW-NO VIS DOLO

DOLO-TN-F-XLN-HD-DNS-NO VIS SHOW-NO ODOR

DOLO-TN-CRS-XLN-BRIT-GD VUG/INTER POR-DULL WHT MIN FLOR-NO VIS SHOW-NO ODOR

DOLO-OFF WHT-M-GRN-HD-DNS DULL YEL FLOR-NO VIS SHOW

DOLO-OFF WHT-CRS-XLN-BRIT-FR TO GD VUG/INTER-PRT POR-NO VIS SHOW

DOLO-TN-F-GRN-SUCR-W/ CHLK AND CHRT-OFF WHT-OPQ-FRSH IN TRAY

DOLO-TN-F-GRN-HD-DNS W/ CHLK N/S

DOLO-OFF WHT/GRNISH-F-XLN-HD-DNS W/ CHRT-OFF WHT-OPQ-FRSH

DOLO-OFF WHT-F-GRN-HD-DNS W/ CHLK AND CHRT IN TRAY-TR PYR XLS

DOLO A.A.

DOLO-TN/CRM-F-GRN-TR OOL-HD-DNS W/ SH AND CHRT-CHLK IN TRAY

DOLO-CRM-F-XLN-GD-VUG POR-DULL YELL MIN FLOR-NO VIS SHOW

MUD DATA @ 3500'
WT. 9.4
VIS 57
FIL 7.2
LCM 0

MUD DATA @ 3658'
WT. 9.3
VIS 64
FIL 7.2
LCM 0

RTD= 3700'

LTD =
3698'

Mud-Co / Service Mud Inc.

Operator FG Holl County Barton State Kansas Pump 6 X 15 X 60 SPM Casing Program 8 5/8" @ 800 ft.
 Well GBF 'A' #1-2 Location _____ GPM 8.76 BPM _____ " @ _____ ft.
 Contractor Duke Drilling #2 Sec 2 TWP 19S RNG 14W D.P. 4.5 in. 216 FT/MIN R.A. _____ " @ _____ ft.
 Stockpoint Hays, Kansa Date 1/10/2019 Engineer Jason Whiting Collar 6.25 in. 450 ft. 393 FT/MIN R.A. Total Depth 3700' ft.

DATE	DEPTH	WEIGHT	VISCOSITY			GELS	pH	FILTRATION/FILTRATION ANALYSIS					SAND	RETORT			L.C.M.	Pump	CUMULATIVE	REMARKS AND TREATMENT
			lb/gal	Sec API @ ___F	PV @ ___F			Yp	10 sec / 10 min	Strip Meter	ml API	Cake 32nds		Pres. #BBL	Cl ppm	Ca ppm				
1/9	0																			0 RURT
1/11	402	10.1	44			Make up	Water	7.0	N/C											Drig. Top of sands @ 330'
1/13	1748	9.0	50	15	14	9/33	7.0	13.6	2			3,100	Hvy		12.7		87.3	1		Drig. Displaced w/ starch @ 1630'
1/14	2419	9.7	39	9	11	7/25	7.0	16.0	2			53M	2,520		6.8		93.2			Drig. Displaced w/ chemical @
1/15	3032	9.1	46	17	14	9/30	10.5	7.2	1			4,200	20		5.5		94.5	Tr		Drig. 2580'
1/16	3300	9.3	56	19	18	11/41	10.5	6.8	1			7,000	20		6.7		93.3			TOH f/ DST 1 DST #1 @ 3300'
1/17	3381	9.1	57	20	17	10/37	10.0	6.4	1			4,400	20		5.5		94.5			TIH w/ bit DST #2 @ 3381'
1/18	3500	9.4	57	19	16	10/35	9.5	7.2	1			5,500	20		6.8		93.2			TIH w/ DST 4 DST #3 @ 3440'
1/19	3658	9.3	64	23	19	11/47	10.0	7.2	1			4,300	20		6.9		93.1			Drig. DST #4 @ 3500'
1/20	3700																			Cement 4 1/2 csg.
																			FINAL: Ran 4 DST's, Logs OK, Ran 4 1/2 csg	
																			Reserve Pit, Chl content ppm: 14,300 ppm Estimated Volume: 700 bbls	

MUD-CO / SERVICE MUD INC.

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

DRILLING MUD RECAP

Materials	Sacks	Amount	Materials	Sacks	Amount	Materials	Sacks	Amount
C/S HULLS	68							
CAUSTIC SODA	12							
DESCO	2							
DRILL PAK	5							
LIME	1							
PREMIUM GEL	395							
SODA ASH	25							
STARCH	43							
SUPER LIG	10							
X-CIDE 102W	1							
						Total Mud Cost		
						Trucking Cost		
						Trucking Surcharge		
						Taxes		
						TOTAL COST		1.



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET

1718 17661 A

DATE _____ TICKET NO. _____

DATE OF JOB		DISTRICT		NEW WELL <input type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:						
CUSTOMER				LEASE		WELL NO				
ADDRESS				COUNTY		STATE				
CITY		STATE		SERVICE CREW						
AUTHORIZED BY				JOB TYPE: 8.625 Cellulose Casing						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
						ARRIVED AT JOB				
						START OPERATION				7:10
						FINISH OPERATION				8:00
						RELEASED				2:30
						MILES FROM STATION TO WELL				
						65				

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

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CC 101	...				
CC 102	...				
CC 103	...				
CC 104	...				
CC 105	...				
CC 106	...				
CC 107	...				
CC 108	...				
CC 109	...				
CC 110	...				
CC 111	...				
CC 112	...				
CC 113	...				
CC 114	...				
CC 115	...				
CC 116	...				
CC 117	...				
CC 118	...				
CC 119	...				
CC 120	...				
CC 121	...				
CC 122	...				
CC 123	...				
CC 124	...				
CC 125	...				
CC 126	...				
CC 127	...				
CC 128	...				
CC 129	...				
CC 130	...				
CC 131	...				
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CC 138	...				
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CC 194	...				
CC 195	...				
CC 196	...				
CC 197	...				
CC 198	...				
CC 199	...				
CC 200	...				

CHEMICAL / ACID DATA:			

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

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

Customer FG Hall	Lease No.	Date 1-11-19
Lease GBF "A"	Well # 1-2	
Field Order # 17161	Station Pratt Kansas 1716	Casing 8.625
Type Job 8.625 21 (KMC) CASING	Depth 850	County Pratt
	Formation	State KS
		Legal Description 2-195-14"

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
8.625								
Depth	Depth	From	To	Pre Pad	Max		5 Min.	
850								
Volume	Volume	From	To	Pad	Min		10 Min.	
44								
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
110								
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
213								
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative Robb L...	Station Manager ...	Treater Francis G...
---	-------------------------------	--------------------------------

Service Units	7816	77626	86379	811981	19914				
Driver Names	Frank Miller	Mike	David	David					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1700					Arrived on location/safety meeting
1730					Rig up equipment
					TOTAL PIPE RAN - 850' sho - 35'
					24.6 - 3T-1 centralizers 3TS - 24.6
2209	130		5	5	Pump 1120 spaces
2215	120		0	5	start lead ACW @ 12ppk
2222	120		38.5	5	87.5' lead away @ 12ppk
2230	120		77	5	175' lead away start tail @ 15.6ppk
2239	110		18.75	4	87.5' tail away @ 15.6ppk
2248	110		37.5	4	175' tail away S/O
2252			0	5	Drop pipe stand into displacement
2257	240		20	5	Enough IFL Displacement
2302	240		47	3	Sanitizer to surface slow to lead pipe
2305	310		57	3	Full displacement Pumping lead pipe
2308	310		71	2	8ppk with tail pipes pumped 1/2 inch
2310	310				no lead sh. on hand. 300ps 4R
2330					Rig down, leave location.
					HT-479.58' TOT-370.41'
					Hot-370.41' TOT-51.6ppk
					circulated 10 bbls / 225' to pit
					Thank You!!



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

2 195-14w

FIELD SERVICE TICKET

1718 17566 A

DATE _____ TICKET NO. _____

DATE OF JOB: 11/20/2019	DISTRICT: P95112	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: J.G. Howell	LEASE: GBT A	WELL NO. 1							
ADDRESS:	COUNTY: Brown	STATE: KS							
CITY:	STATE:	SERVICE CREW: Deon, Brian, D, D, Deon							
AUTHORIZED BY:	JOB TYPE: 242/4 1/2 Length								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
17543	1					ARRIVED AT JOB	12:30	AM	12:30
17562	1/4					START OPERATION	1:00	AM	1:00
						FINISH OPERATION	1:20	AM	1:20
						RELEASED	1:20	AM	1:20
						MILES FROM STATION TO WELL	58		

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
CP105	DNZ Cement	SK	155		
CP103	60/40 Per	SK	75		
CC102	Cello 15K	Lb	39		
CC105	C 41P	Lb	73		
CC111	SGH	Lb	678		
CC185	MesChem 100R	Lb	438		
CC148	C-17	Lb	88		
CC201	Gilsonic	Lb	1715		
CF1250	Auto Fill Plug, size 4 1/2" (Blue)	FS	1		
CF606	Loch Down Plug + BSME, 4 1/2" (Blue)	FS	1		
CF1900	4 1/2" BSME (Blue)	FS	1		
CF1002	Control Switching Valve, A Type	FS	30		
CC154	Super Flush	GSI	500		
E100	Unit milesse Charge - Pickups, Smaller size	m	65		
E101	Heavy Equipment - Milesse	m	130		
E113	Pickups and Box Delivery Charge per unit	Unit	675		

CHEMICAL / ACID DATA:			

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

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

FIELD SERVICE ORDER NO.



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET

1718 ~~17567~~ A

Cont. no. 17566

DATE _____ TICKET NO. _____

DATE OF JOB <i>11/20/2015</i> DISTRICT <i>Pratt, KS</i>				NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:					
CUSTOMER <i>FG Well</i>				LEASE <i>GRF'D</i>		WELL NO. <i>12</i>			
ADDRESS				COUNTY <i>Barton</i>		STATE <i>KS</i>			
CITY STATE				SERVICE CREW <i>Dsrin, Brian, D. 52, D. 502</i>					
AUTHORIZED BY				JOB TYPE: <i>242/4 1/2 Lossstrips</i>					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM PM	TIME
<i>17567</i>						ARRIVED AT JOB		AM	PM
						START OPERATION		AM	PM
						FINISH OPERATION		AM	PM
						RELEASED		AM	PM
						MILES FROM STATION TO WELL			<i>58</i>

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<i>CE 204</i>	<i>Depin Charge; 3001 - 4,000</i>	<i>4hr</i>	<i>1</i>		
<i>CF 240</i>	<i>Blending & mixing Service Charge</i>	<i>SK</i>	<i>230</i>		
<i>CE 504</i>	<i>Plug container utilization Charge</i>	<i>Job</i>	<i>1</i>		
<i>CE 501</i>	<i>CSSIOS Swivel Rents</i>	<i>ES</i>	<i>1</i>		
<i>5003</i>	<i>Service Supervisor First 8 hrs on Loc</i>	<i>ES</i>	<i>1</i>		
<i>CF 1651</i>	<i>Turbolizer 5 1/2 Blue</i>	<i>CR</i>	<i>10</i>		

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE *[Signature]*

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *[Signature]*

FIELD SERVICE ORDER NO. _____ (WELL OWNER OPERATOR CONTR)

CLOUD LITHO - Abilene, TX

Customer FGH01	Lease No.	Date 11/20/2018
Lease GBF A	Well # 1-2	
Field Order # 17566	Station DISPER	Casing 4 1/2
Type Job 242/4 1/2 LONSTRONG	Formation TD	Legal Description 2-55-140
		County Bevier State KS

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
4 1/2							
Depth 3657	Depth	From	To	Pre Pad	Max		5 Min.
Volume 58	Volume	From	To	Pad	Min		10 Min.
Max Press 1500	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 3665	Packer Depth	From	To	Flush WATER	Gas Volume		Total Load

Customer Representative ADSM	Station Manager Justin Westerman	Treater Darin Franklin
-------------------------------------	---	-------------------------------

Service Units 37940 78582 19843 19903									
Driver Names DSL0 Brien Brien D.SZ D.SZ									

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					ON location safety meeting
					T B.
					255K 60/40 Poz, 29% sol, 5pps Gilsanic
					14.4 pps, 1.27 vol% , 5.23 wcm
					155 K AA2 Cement, 0.6% fluid loss
					G. 5% defoamer, C. 25pps Callalisker, 390
					msschem locr, 10pps gilsanic, 1090 sol
					15.0pps, 1.43 vol%, 5.23 wcm
9:00am	300		5	5	Pump 5 bbls WGR
	300		12	5	Pump 12 bbls Flush
	300		5	5	Pump 5 bbls WGR
	300		6	5	mix 25 SK SSV cement
	300		39	5	mix 155 SK AA2
					Shut down, WSSN Pump @ Lines & Release Plug
	300		0	5	Start displacement
	400		35	5	LiP Pressure
	600		47	3	Slow Rate
9:53am	1500		57 1/2	3	Bump Plug
					Flow - Hold
	0		12	3	Plug Ret & move here
10:15am					Job Complete / Design crew



DRILL STEM TEST REPORT

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

9431 East Central Suite
Wichita ,Kansas 67205-2563

ATTN: Renee Husted

GBF"A" #1-2

2-19s-14w Barton

Start Date: 2019.01.16 @ 09:41:00

End Date: 2019.01.16 @ 14:19:00

Job Ticket #: 01068 DST #: 1

Eagle Testers
1309 Patton Road Great Bend, Kansas 67530
620-791-7394

Printed: 2019.01.16 @ 14:45:55



DRILL STEM TEST REPORT

F.G.Holl Company LLC
 9431 East Central Suite
 Wichita ,Kansas 67205-2563
 ATTN: Renee Hustead

2-19s-14w Barton
GBF"A" #1-2
 Job Ticket: 01068 **DST#: 1**
 Test Start: 2019.01.16 @ 09:41:00

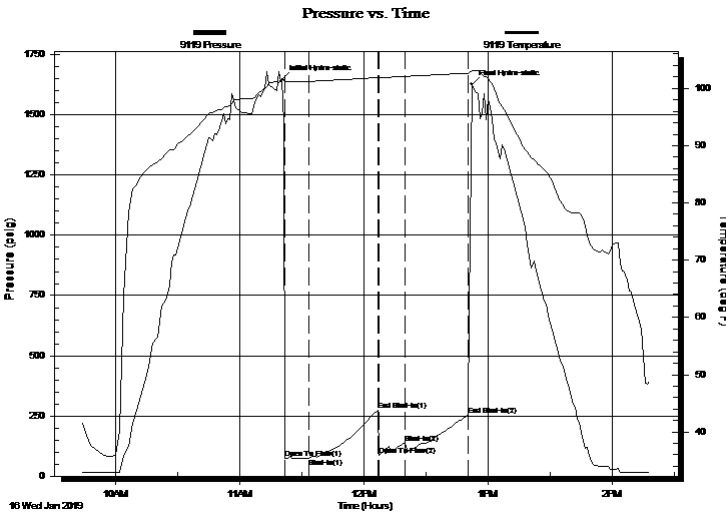
GENERAL INFORMATION:

Formation: **Kansas City |A-B-C-D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:22:00
 Time Test Ended: 14:19:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 1
 Interval: **3230.00 ft (KB) To 3300.00 ft (KB) (TVD)**
 Reference Elevations: 1895.00 ft (KB)
 Total Depth: 3300.00 ft (KB) (TVD) 1887.00 ft (CF)
 Hole Diameter: 7.78 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 9119 Inside
 Press@RunDepth: 253.40 psig @ 3294.68 ft (KB) Capacity: 5000.00 psig
 Start Date: 2019.01.16 End Date: 2019.01.16 Last Calib.: 2019.01.16
 Start Time: 09:41:00 End Time: 14:18:30 Time On Btm: 2019.01.16 @ 11:20:30
 Time Off Btm: 2019.01.16 @ 12:52:00

TEST COMMENT: 1st Opening 15 Minutes weak blow for 3 minutes and died\
 1st Shut-In 30 Minutes
 2nd Opening 15 Minutes no blow
 2nd Shut-In 30 Minutes

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1644.70	101.60	Initial Hydro-static
1	73.08	101.18	Open To Flow (1)
13	74.53	101.22	Shut-In(1)
46	274.37	101.90	End Shut-In(1)
47	87.42	101.85	Open To Flow (2)
60	134.68	102.10	Shut-In(2)
90	253.40	102.66	End Shut-In(2)
92	1627.77	103.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Drilling Mud	0.13

Gas Rates

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



DRILL STEM TEST REPORT

F.G.Holl Company LLC
 9431 East Central Suite
 Wichita ,Kansas 67205-2563
 ATTN: Renee Hustead

2-19s-14w Barton
GBF"A" #1-2
 Job Ticket: 01068 **DST#: 1**
 Test Start: 2019.01.16 @ 09:41:00

GENERAL INFORMATION:

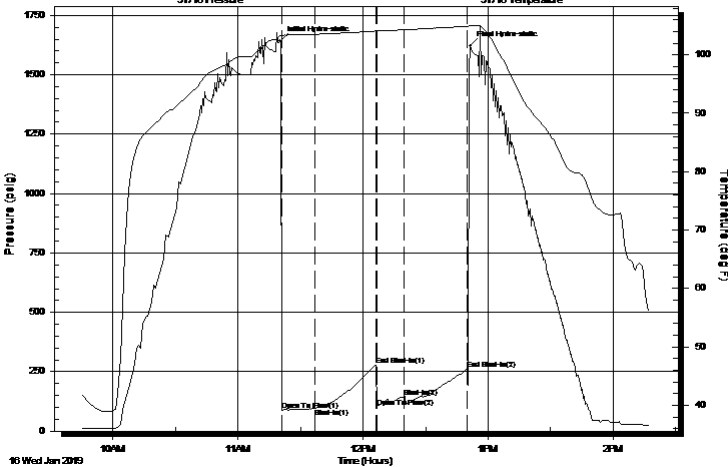
Formation: **Kansas City |A-B-C-D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:22:00
 Time Test Ended: 14:19:00
 Interval: **3230.00 ft (KB) To 3300.00 ft (KB) (TVD)**
 Total Depth: 3300.00 ft (KB) (TVD)
 Hole Diameter: 7.78 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 1
 Reference Elevations: 1895.00 ft (KB)
 1887.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 91716 Outside

Press@RunDepth: 259.37 psig @ 3294.68 ft (KB) Capacity: 5000.00 psig
 Start Date: 2019.01.16 End Date: 2019.01.16 Last Calib.: 2019.01.16
 Start Time: 09:41:00 End Time: 14:17:29 Time On Btm: 2019.01.16 @ 11:20:30
 Time Off Btm: 2019.01.16 @ 12:51:30

TEST COMMENT: 1st Opening 15 Minutes weak blow for 3 minutes and died\
 1st Shut-In 30 Minutes
 2nd Opening 15 Minutes no blow
 2nd Shut-In 30 Minutes

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1641.55	103.33	Initial Hydro-static
1	88.61	103.36	Open To Flow (1)
17	95.06	103.51	Shut-In(1)
46	279.24	104.07	End Shut-In(1)
46	100.58	104.09	Open To Flow (2)
59	144.29	104.29	Shut-In(2)
90	259.37	104.90	End Shut-In(2)
91	1622.23	105.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Drilling Mud	0.13

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company LLC

2-19s-14w Barton

9431 East Central Suite
Wichita ,Kansas 67205-2563

GBF"A" #1-2

Job Ticket: 01068

DST#: 1

ATTN: Renee Husted

Test Start: 2019.01.16 @ 09:41:00

Tool Information

Drill Pipe:	Length: 3222.00 ft	Diameter: 3.00 inches	Volume: 28.17 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: 28.17 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3230.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	69.68 ft				
Tool Length:	99.68 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			3205.00	
Hydraulic tool	5.00			3210.00	
Jars	5.00			3215.00	
Safety Joint	5.00			3220.00	
Packer	5.00			3225.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	3230.00	
Anchor	5.00			3235.00	
Change Over Sub	0.75			3235.75	
Drill Pipe	31.18			3266.93	
Change Over Sub	0.75		Inside	3267.68	
Anchor	27.00			3294.68	
Recorder	0.00	9119	Inside	3294.68	
Recorder	0.00	91716	Outside	3294.68	
Bullnose	5.00			3299.68	69.68 Bottom Packers & Anchor

Total Tool Length: 99.68



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company LLC

2-19s-14w Barton

9431 East Central Suite
Wichita ,Kansas 67205-2563

GBF"A" #1-2

Job Ticket: 01068

DST#: 1

ATTN: Renee Husted

Test Start: 2019.01.16 @ 09:41:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 56.00 sec/qt
Water Loss: 6.80 in³
Resistivity: ohm.m
Salinity: 7000.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Drilling Mud	0.131

Total Length: 15.00 ft Total Volume: 0.131 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

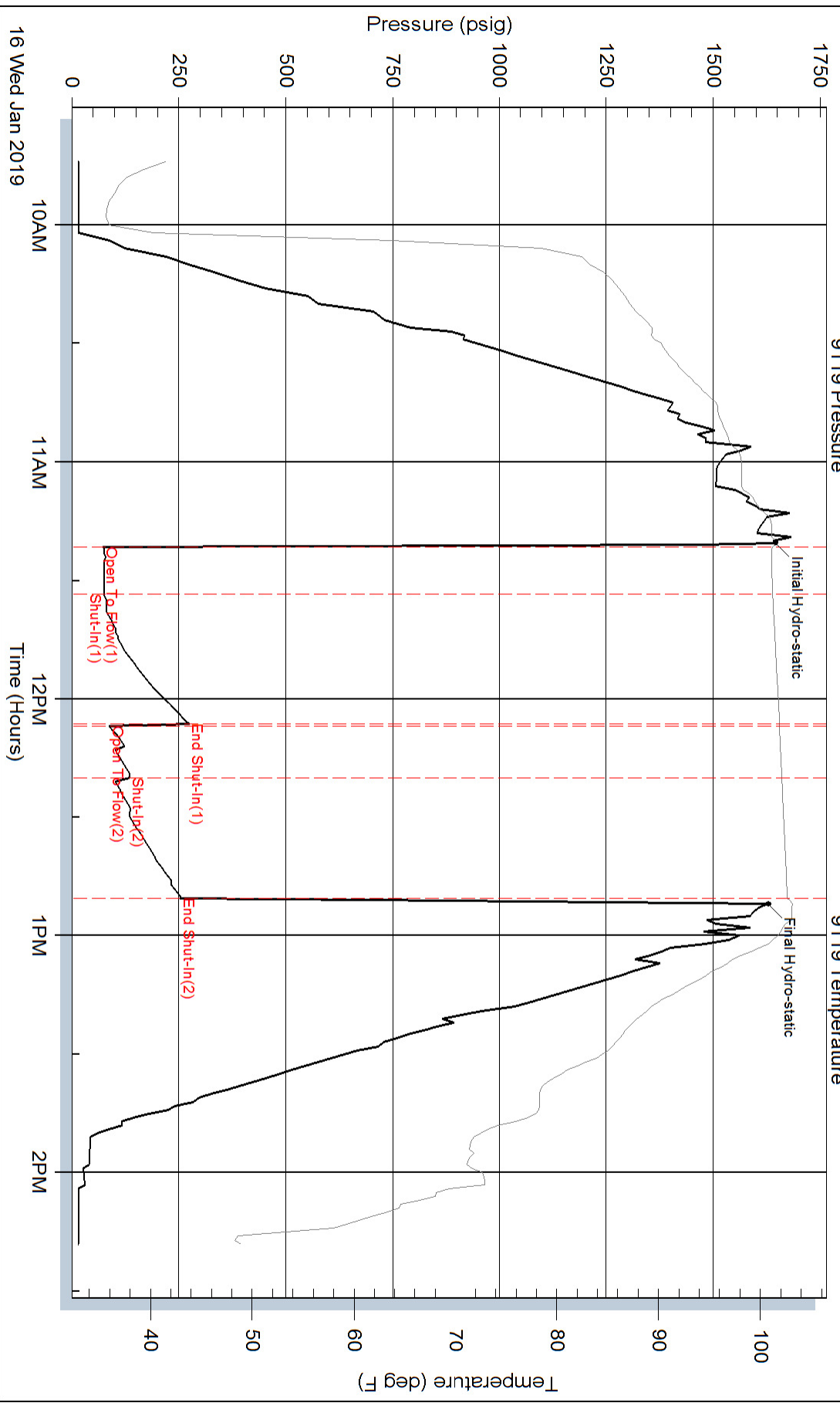
Serial #:

Laboratory Name:

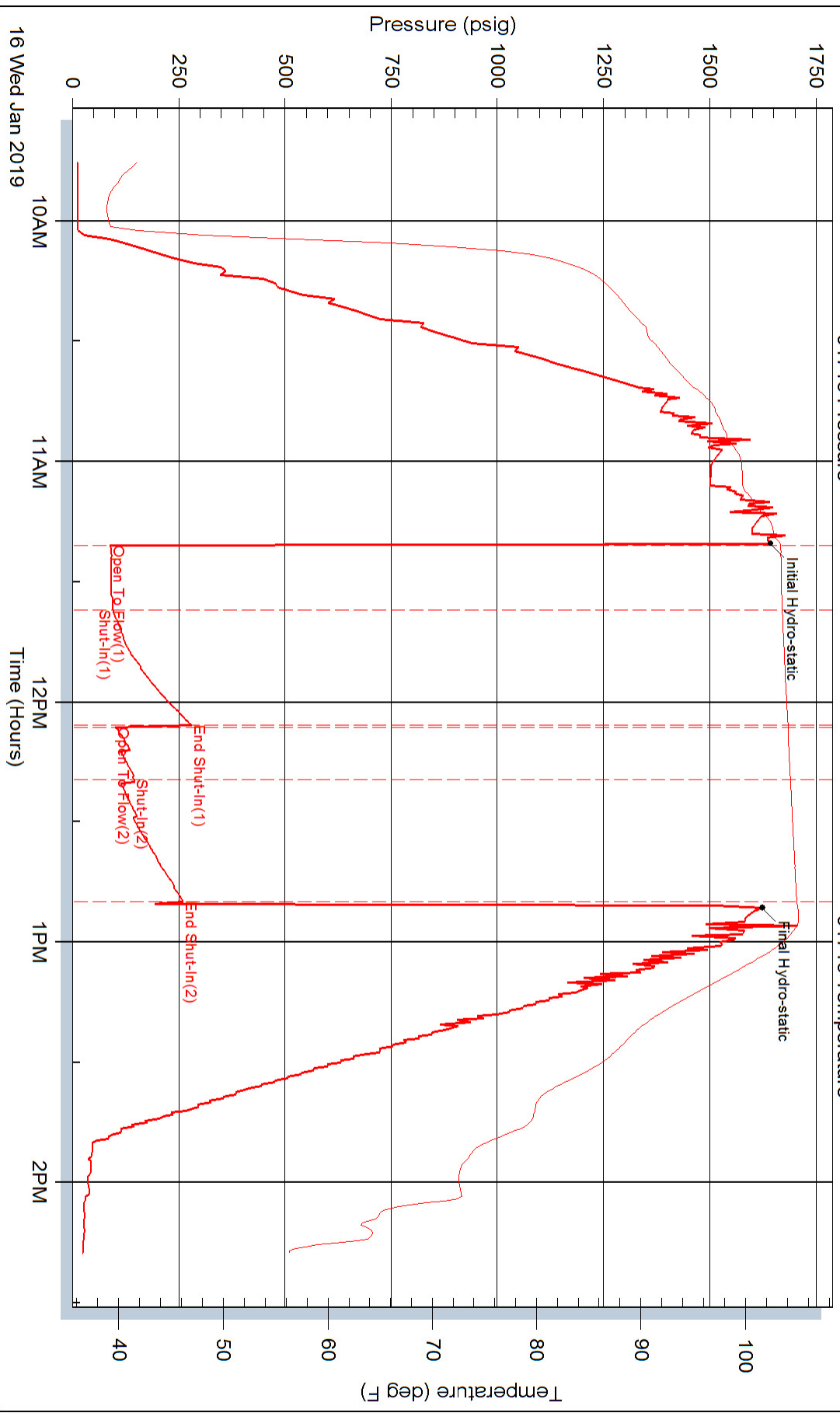
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite
Wichita ,Kansas 67205-2563

ATTN: Renee Husted

GBF"A" #1-2

2-19s-14w Barton

Start Date: 2019.01.17 @ 00:57:00

End Date: 2019.01.17 @ 07:42:00

Job Ticket #: 01069 DST #: 2

Eagle Testers
1309 Patton Road Great Bend, Kansas 67530
620-791-7394

Printed: 2019.01.17 @ 07:59:20



DRILL STEM TEST REPORT

F.G.Holl Company LLC
 9431 East Central Suite
 Wichita ,Kansas 67205-2563
 ATTN: Renee Husted

2-19s-14w Barton
GBF"A" #1-2
 Job Ticket: 01069 **DST#:2**
 Test Start: 2019.01.17 @ 00:57:00

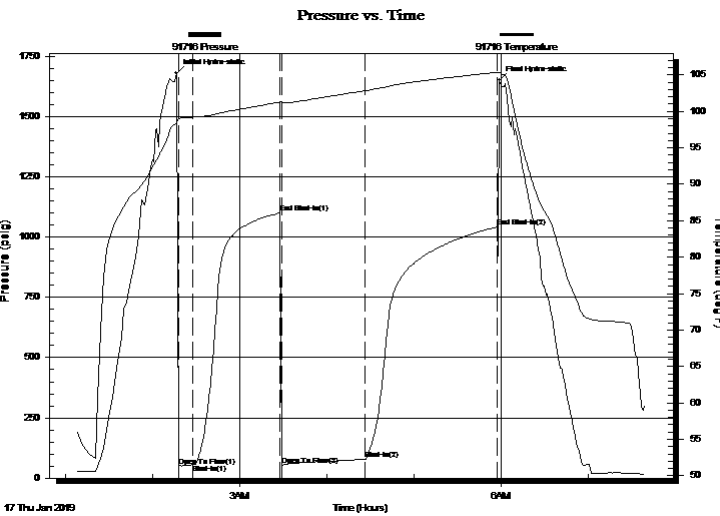
GENERAL INFORMATION:

Formation: **kansas City "H"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:19:00
 Time Test Ended: 07:42:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 1
 Interval: **3360.00 ft (KB) To 3381.00 ft (KB) (TVD)**
 Reference Elevations: 1895.00 ft (KB)
 Total Depth: 3381.00 ft (KB) (TVD) 1887.00 ft (CF)
 Hole Diameter: 7.78 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 91716 Outside

Press@RunDepth: 1041.69 psig @ 3376.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2019.01.17 End Date: 2019.01.17 Last Calib.: 2019.01.17
 Start Time: 00:57:00 End Time: 07:39:29 Time On Btm: 2019.01.17 @ 02:16:30
 Time Off Btm: 2019.01.17 @ 05:59:00

TEST COMMENT: 1st Opening 10 Minutes Good blow built to the bottom of the bucket in 6 minutes
 1st Shut-In 60 Minutes no blow back
 2nd Opening 60 Minutes Good blow built to the bottom of the bucket in 6 minutes
 2nd Shut-In 90 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1679.32	98.41	Initial Hydro-static
2	50.93	99.00	Open To Flow (1)
12	55.70	99.21	Shut-In(1)
72	1100.67	101.28	End Shut-In(1)
73	54.16	101.27	Open To Flow (2)
130	78.16	102.85	Shut-In(2)
221	1041.69	105.34	End Shut-In(2)
223	1650.07	105.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2000 Gas in the pipe	0.00
90.00	slightly mud cut gassy oil	1.26
0.00	25% gas %60 Oil 15% Mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F.G.Holl Company LLC
 9431 East Central Suite
 Wichita ,Kansas 67205-2563
 ATTN: Renee Husted

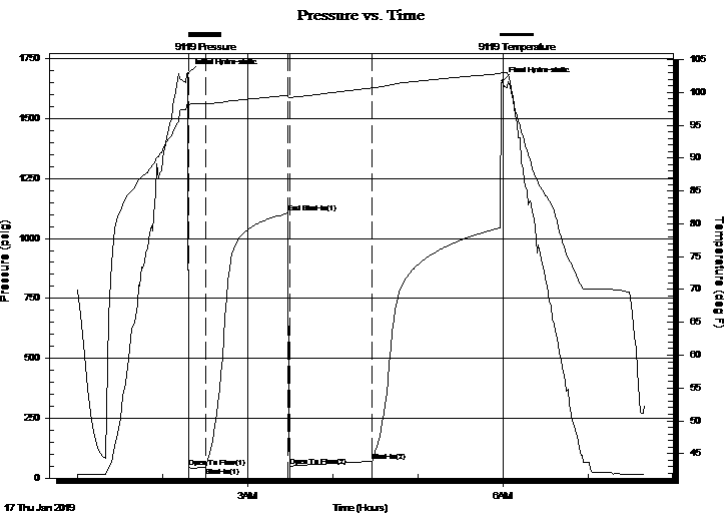
2-19s-14w Barton
GBF"A" #1-2
 Job Ticket: 01069 **DST#:2**
 Test Start: 2019.01.17 @ 00:57:00

GENERAL INFORMATION:

Formation: **kansas City "H"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:19:00
 Time Test Ended: 07:42:00
 Interval: **3360.00 ft (KB) To 3381.00 ft (KB) (TVD)**
 Total Depth: 3381.00 ft (KB) (TVD)
 Hole Diameter: 7.78 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 1
 Reference Elevations: 1895.00 ft (KB)
 1887.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 9119 Inside
 Press@RunDepth: 1106.18 psig @ 3376.00 ft (KB) Capacity: 0.00 psig
 Start Date: 2019.01.17 End Date: 2019.01.17 Last Calib.: 2019.01.17
 Start Time: 00:57:00 End Time: 07:40:00 Time On Btm: 2019.01.17 @ 02:18:00
 Time Off Btm: 2019.01.17 @ 05:59:30

TEST COMMENT: 1st Opening 10 Minutes Good blow built to the bottom of the bucket in 6 minutes
 1st Shut-In 60 Minutes no blow back
 2nd Opening 60 Minutes Good blow built to the bottom of the bucket in 6 minutes
 2nd Shut-In 90 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1686.67	98.53	Initial Hydro-static
1	43.41	98.08	Open To Flow (1)
12	46.33	98.30	Shut-In(1)
71	1106.18	99.56	End Shut-In(1)
72	48.61	99.25	Open To Flow (2)
130	70.14	100.66	Shut-In(2)
222	1656.80	102.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2000 Gas in the pipe	0.00
90.00	slightly mud cut gassy oil	1.26
0.00	25% gas %60 Oil 15% Mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company LLC

2-19s-14w Barton

9431 East Central Suite
Wichita ,Kansas 67205-2563

GBF"A" #1-2

Job Ticket: 01069

DST#:2

ATTN: Renee Husted

Test Start: 2019.01.17 @ 00:57:00

Tool Information

Drill Pipe:	Length: 3342.00 ft	Diameter: 3.80 inches	Volume: 46.88 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: 46.88 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3360.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	21.00 ft				
Tool Length:	51.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3335.00	
Hydraulic tool	5.00			3340.00	
Jars	5.00			3345.00	
Safety Joint	5.00			3350.00	
Packer	5.00			3355.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	3360.00	
Anchor	16.00			3376.00	
Recorder	0.00	9119	Inside	3376.00	
Recorder	0.00	91716	Outside	3376.00	
Bullnose	5.00			3381.00	21.00 Bottom Packers & Anchor
Total Tool Length:	51.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company LLC

2-19s-14w Barton

9431 East Central Suite
Wichita ,Kansas 67205-2563

GBF"A" #1-2

Job Ticket: 01069

DST#:2

ATTN: Renee Husted

Test Start: 2019.01.17 @ 00:57:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 56.00 sec/qt
Water Loss: 6.80 in³
Resistivity: ohm.m
Salinity: 7000.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2000 Gas in the pipe	0.000
90.00	slightly mud cut gassy oil	1.262
0.00	25% gas %60 Oil 15% Mud	0.000

Total Length: 90.00 ft Total Volume: 1.262 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

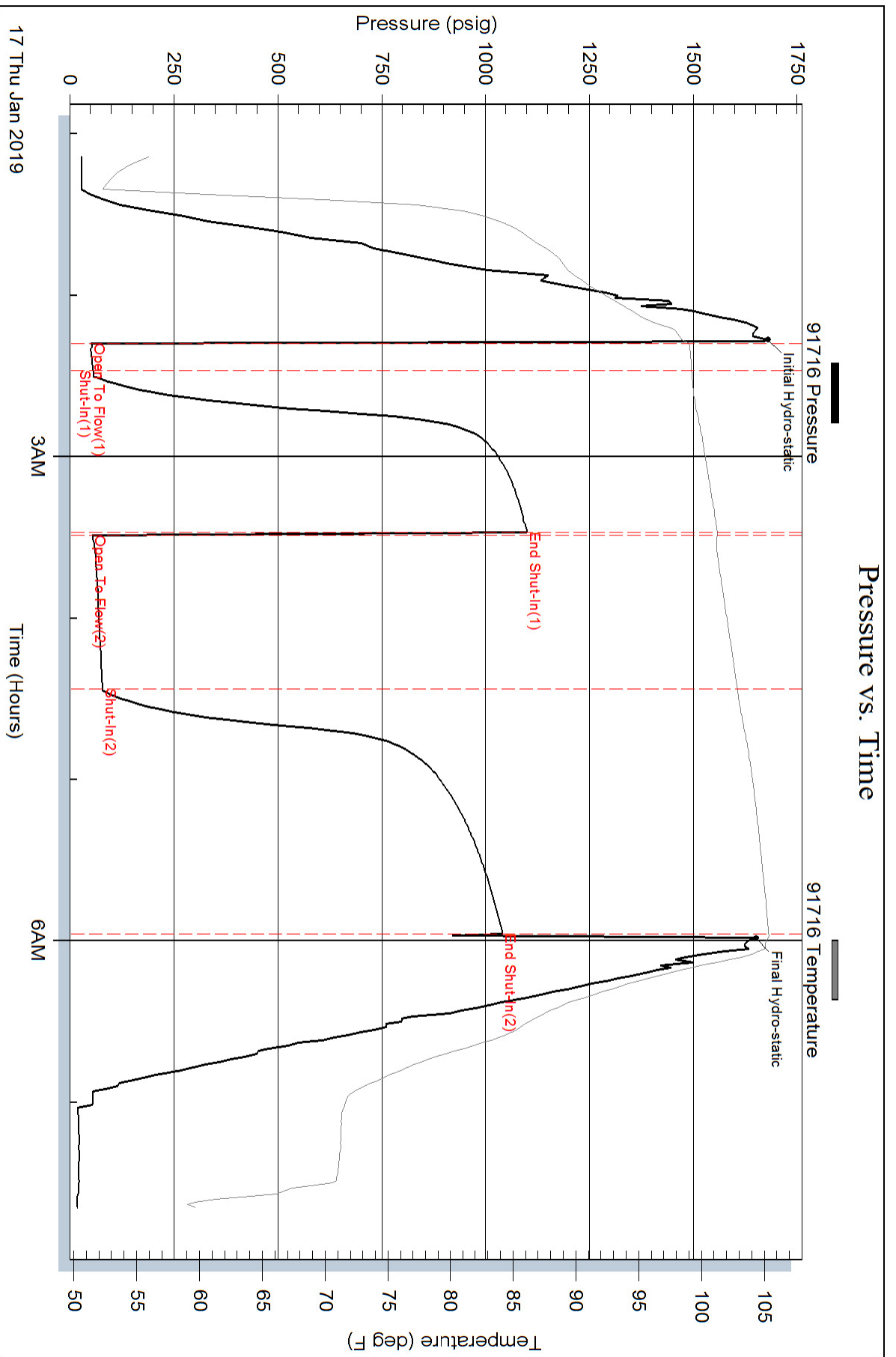
Serial #:

Laboratory Name:

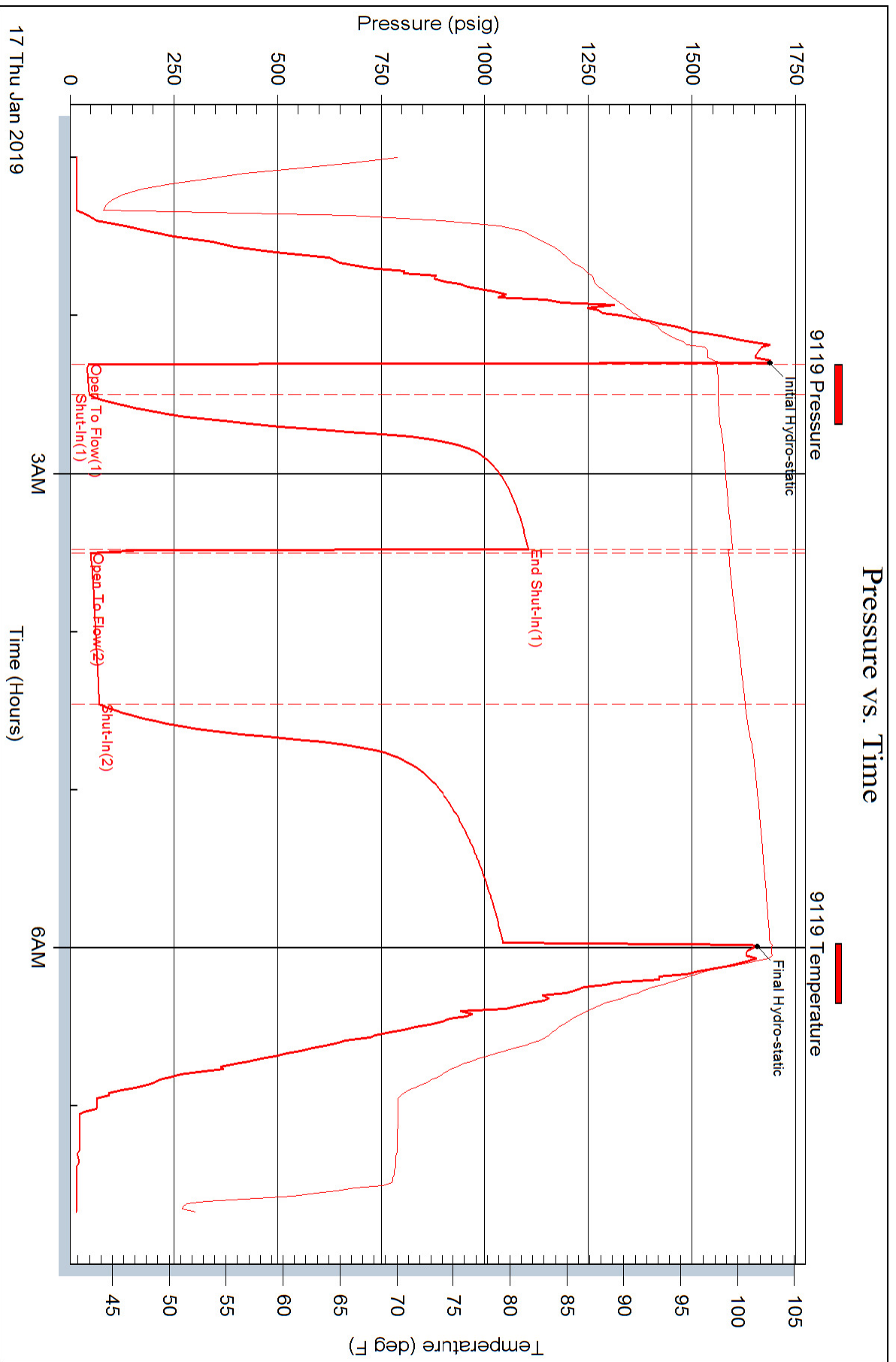
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite
Wichita ,Kansas 67205-2563

ATTN: Renee Husted

GBF"A" #1-2

2-19s-14w Barton

Start Date: 2019.01.17 @ 17:33:00

End Date: 2019.01.17 @ 23:58:00

Job Ticket #: 01070 DST #: 3

Eagle Testers
1309 Patton Road Great Bend, Kansas 67530
620-791-7394

Printed: 2019.01.18 @ 00:20:59



DRILL STEM TEST REPORT

F.G.Holl Company LLC
 9431 East Central Suite
 Wichita ,Kansas 67205-2563
 ATTN: Renee Hustead

2-19s-14w Barton
GBF"A" #1-2
 Job Ticket: 01070 **DST#: 3**
 Test Start: 2019.01.17 @ 17:33:00

GENERAL INFORMATION:

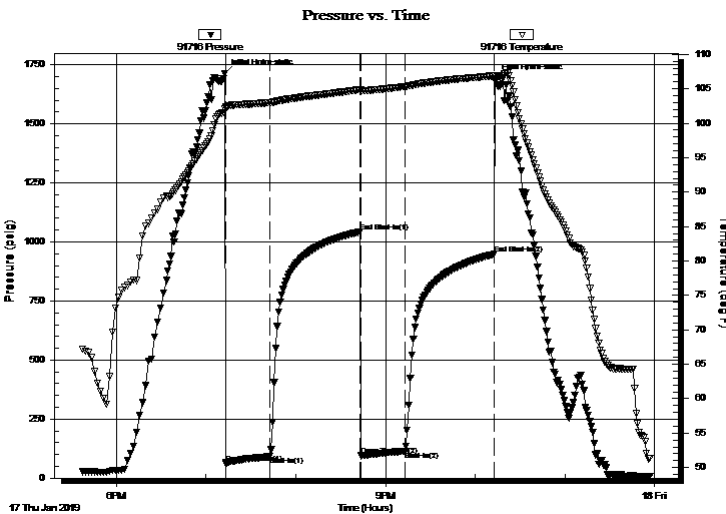
Formation: **Kansas City "I-J-K"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 19:44:00 Tester: Gene budig
 Time Test Ended: 23:58:00 Unit No:
Interval: 3382.00 ft (KB) To 3440.00 ft (KB) (TVD)
 Reference Elevations: 1895.00 ft (KB)
 Total Depth: 3440.00 ft (KB) (TVD) 1887.00 ft (CF)
 Hole Diameter: 7.78 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 91716 Outside

Press@RunDepth: 948.43 psig @ 3435.01 ft (KB) Capacity: psig
 Start Date: 2019.01.17 End Date: 2019.01.17 Last Calib.: 1899.12.30
 Start Time: 17:37:30 End Time: 23:56:30 Time On Btm: 2019.01.17 @ 19:12:30
 Time Off Btm: 2019.01.17 @ 22:13:00

TEST COMMENT: 1st Opening 30 Minutes weak 1/2 inch blow decreased to a weak surface blow
 1st Shut-In 60Minutes
 2n opening 30 minutes very weak surface blow
 2nd Shut-In 60 Minutes

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1714.21	102.03	Initial Hydro-static
1	63.72	102.23	Open To Flow (1)
30	92.26	102.99	Shut-In(1)
90	1042.46	104.85	End Shut-In(1)
91	94.96	104.82	Open To Flow (2)
121	114.29	105.33	Shut-In(2)
180	948.43	106.88	End Shut-In(2)
181	1690.53	106.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	THICK MUD	1.26

Gas Rates

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



DRILL STEM TEST REPORT

F.G.Holl Company LLC
 9431 East Central Suite
 Wichita ,Kansas 67205-2563
 ATTN: Renee Hustead

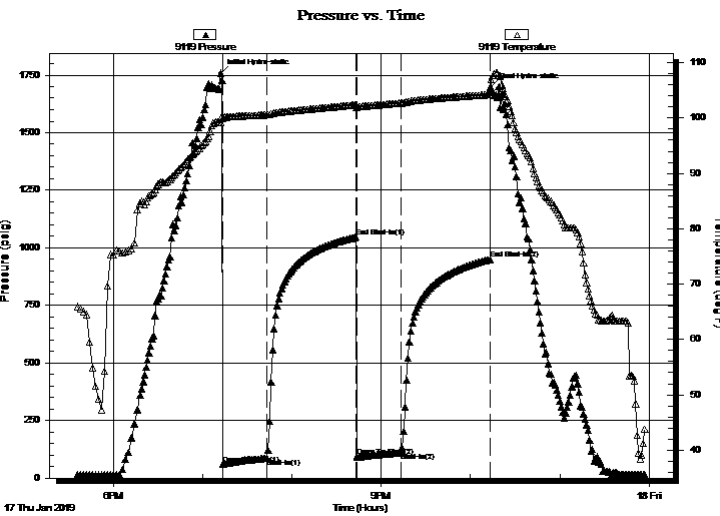
2-19s-14w Barton
GBF"A" #1-2
 Job Ticket: 01070 **DST#: 3**
 Test Start: 2019.01.17 @ 17:33:00

GENERAL INFORMATION:

Formation: **Kansas City "I-J-K"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 19:44:00 Tester: Gene budig
 Time Test Ended: 23:58:00 Unit No:
 Interval: **3382.00 ft (KB) To 3440.00 ft (KB) (TVD)** Reference Elevations: 1895.00 ft (KB)
 Total Depth: 3440.00 ft (KB) (TVD) 1887.00 ft (CF)
 Hole Diameter: 7.78 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 9119 Inside
 Press@RunDepth: 950.22 psig @ 3435.01 ft (KB) Capacity: psig
 Start Date: 2019.01.17 End Date: 2019.01.17 Last Calib.: 1899.12.30
 Start Time: 17:36:00 End Time: 23:57:00 Time On Btm: 2019.01.17 @ 19:12:00
 Time Off Btm: 2019.01.17 @ 22:13:30

TEST COMMENT: 1st Opening 30 Minutes w eak 1/2 inch blow decreased to a weak surface blow
 1st Shut-In 60Minutes
 2n opening 30 minutes very w eak surface blow
 2nd Shut- In 60 Minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1758.36	99.28	Initial Hydro-static
2	61.16	100.01	Open To Flow (1)
31	87.61	100.60	Shut-In(1)
91	1046.28	102.38	End Shut-In(1)
92	94.09	102.00	Open To Flow (2)
122	110.56	102.73	Shut-In(2)
181	950.22	104.23	End Shut-In(2)
182	1697.64	105.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	THICK MUD	1.26

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company LLC

2-19s-14w Barton

9431 East Central Suite
Wichita ,Kansas 67205-2563

GBF"A" #1-2

Job Ticket: 01070

DST#: 3

ATTN: Renee Husted

Test Start: 2019.01.17 @ 17:33:00

Tool Information

Drill Pipe:	Length: 3377.00 ft	Diameter: 3.80 inches	Volume: 47.37 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	72000.00 lb
			<u>Total Volume: 47.37 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3382.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	58.01 ft				
Tool Length:	88.01 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3357.00	
Hydraulic tool	5.00			3362.00	
Jars	5.00			3367.00	
Safety Joint	5.00			3372.00	
Packer	5.00			3377.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	3382.00	
Anchor	5.00			3387.00	
Change Over Sub	0.75			3387.75	
Drill Pipe	31.51			3419.26	
Change Over Sub	0.75		Inside	3420.01	
Anchor	15.00			3435.01	
Recorder	0.00	9119	Inside	3435.01	
Recorder	0.00	91716	Outside	3435.01	
Bullnose	5.00			3440.01	58.01 Bottom Packers & Anchor

Total Tool Length: 88.01



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company LLC

2-19s-14w Barton

9431 East Central Suite
Wichita ,Kansas 67205-2563

GBF"A" #1-2

Job Ticket: 01070

DST#: 3

ATTN: Renee Husted

Test Start: 2019.01.17 @ 17:33:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 63.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	THICK MUD	1.262

Total Length: 90.00 ft Total Volume: 1.262 bbl

Num Fluid Samples: 0

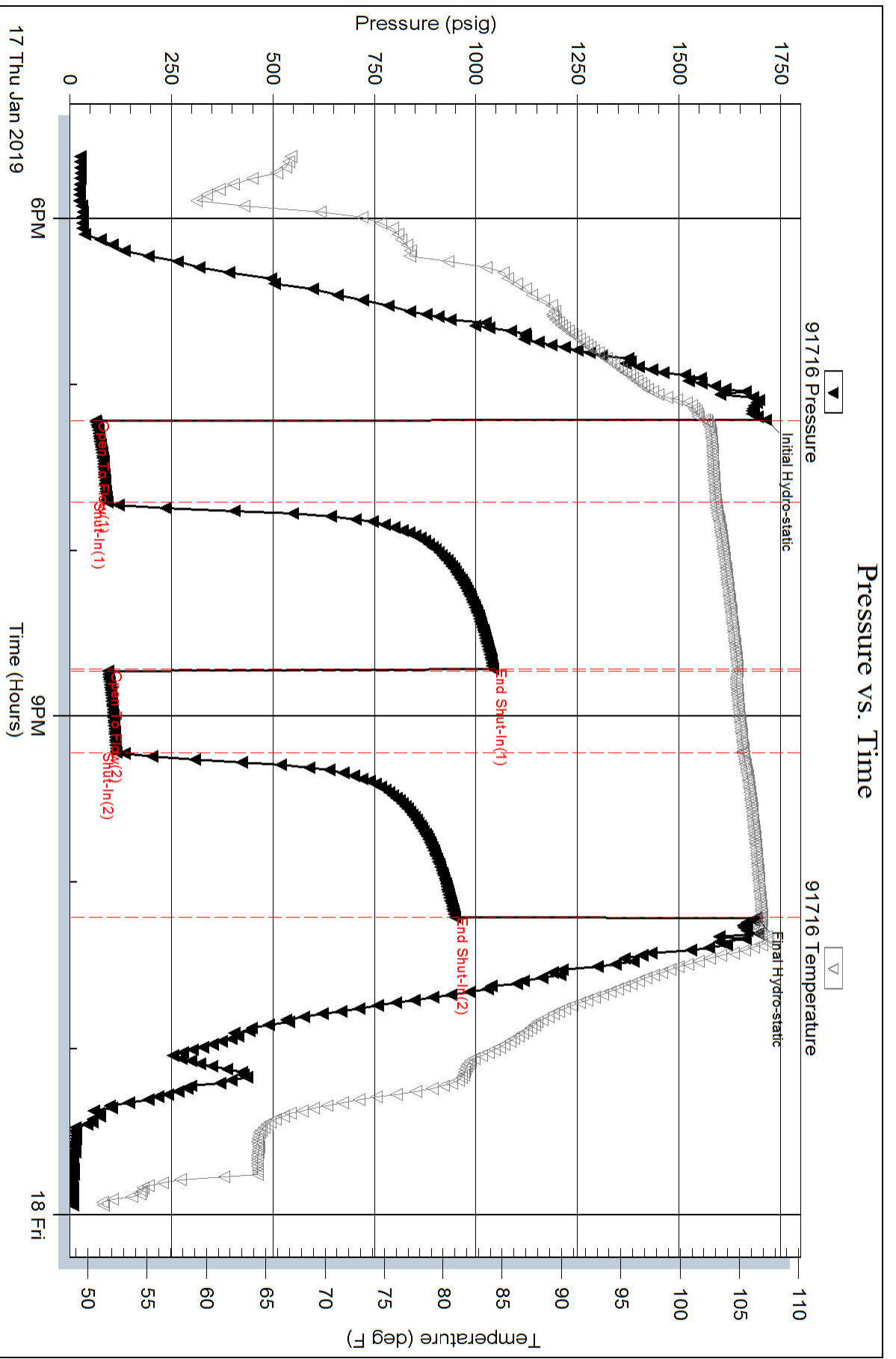
Num Gas Bombs: 0

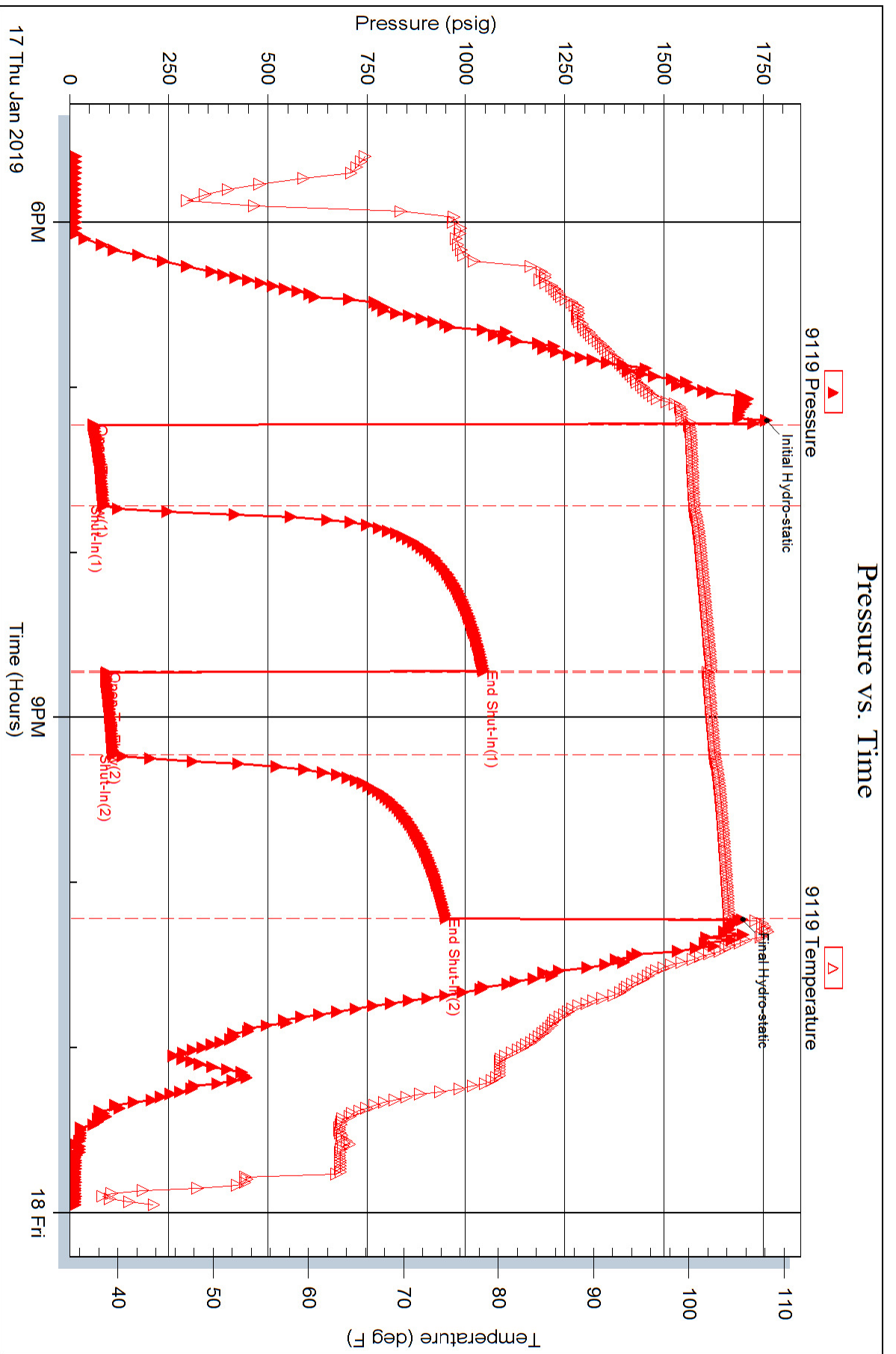
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

9431 East Central Suite
Wichita ,Kansas 67205-2563

ATTN: Renee Husted

GBF"A" #1-2

2-19s-14w Barton

Start Date: 2019.01.18 @ 00:00:00

End Date: 2019.01.18 @ 00:00:00

Job Ticket #: 01071 DST #: 4

Eagle Testers
1309 Patton Road Great Bend, Kansas 67530
620-791-7394

Printed: 2019.01.18 @ 15:32:13



DRILL STEM TEST REPORT

F.G.Holl Company LLC
 9431 East Central Suite
 Wichita ,Kansas 67205-2563
 ATTN: Renee Husted

2-19s-14w Barton
GBF"A" #1-2
 Job Ticket: 01071 **DST#: 4**
 Test Start: 2019.01.18 @ 00:00:00

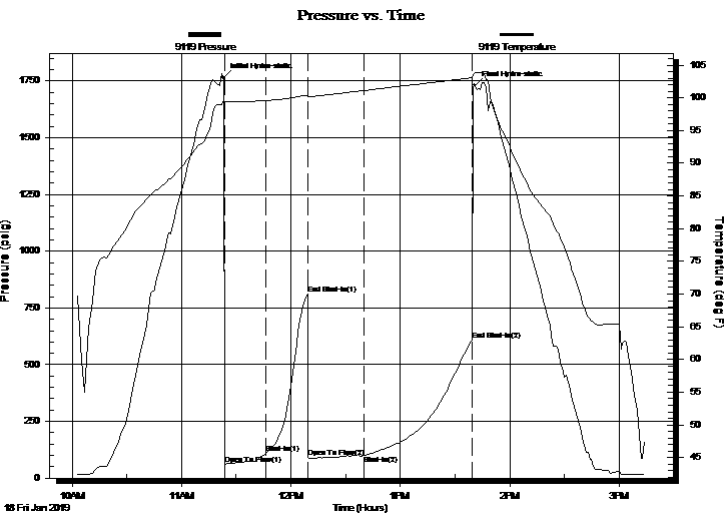
GENERAL INFORMATION:

Formation: **Conglomerate**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:00:00
 Time Test Ended: 00:00:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 1
 Interval: **3440.00 ft (KB) To 3500.00 ft (KB) (TVD)**
 Reference Elevations: 1895.00 ft (KB)
 Total Depth: 3500.00 ft (KB) (TVD) 1887.00 ft (CF)
 Hole Diameter: 7.78 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 9119

Press@RunDepth: 610.45 psig @ ft (KB) Capacity: psig
 Start Date: 2019.01.18 End Date: 2019.01.18 Last Calib.: 1899.12.30
 Start Time: 10:00:00 End Time: 15:14:30 Time On Btm: 2019.01.18 @ 11:23:00
 Time Off Btm: 2019.01.18 @ 13:41:00

TEST COMMENT: 1st Opening 15 Minutes weak surface blow through out
 1st Shut-In 30 Minutes
 2nd Opening 30 Minutes weak surface blow through out
 2nd Shut-In 60 Minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1765.43	99.57	Initial Hydro-static
1	61.06	99.21	Open To Flow (1)
23	107.52	99.58	Shut-In(1)
46	812.30	100.40	End Shut-In(1)
47	91.97	100.20	Open To Flow (2)
78	99.82	101.11	Shut-In(2)
137	610.45	103.08	End Shut-In(2)
138	1731.40	103.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	Drilling Mud	1.05

Gas Rates

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



DRILL STEM TEST REPORT

F.G.Holl Company LLC
 9431 East Central Suite
 Wichita ,Kansas 67205-2563
 ATTN: Renee Hustead

2-19s-14w Barton
GBF"A" #1-2
 Job Ticket: 01071 **DST#: 4**
 Test Start: 2019.01.18 @ 00:00:00

GENERAL INFORMATION:

Formation: **Conglomerate**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:00:00
 Time Test Ended: 00:00:00
 Interval: **3440.00 ft (KB) To 3500.00 ft (KB) (TVD)**
 Total Depth: 3500.00 ft (KB) (TVD)
 Hole Diameter: 7.78 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 1
 Reference Elevations: 1895.00 ft (KB)
 1887.00 ft (CF)
 KB to GR/CF: 8.00 ft

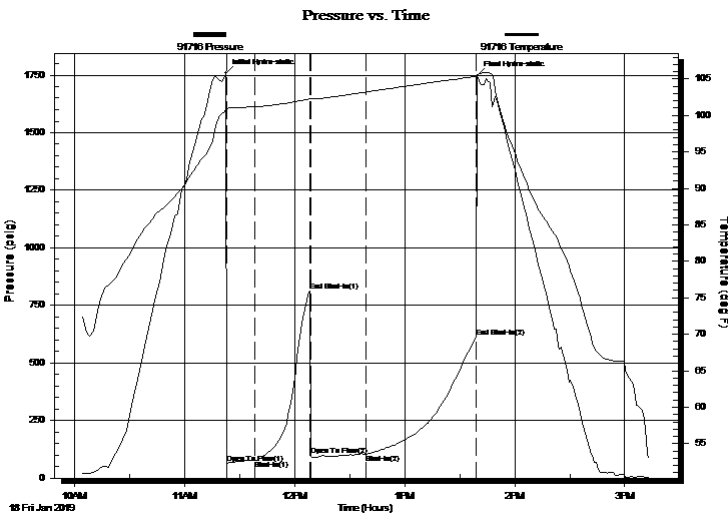
Serial #: 91716

Press@RunDepth: 610.96 psig @ ft (KB) Capacity: psig
 Start Date: 2019.01.18 End Date: 2019.01.18 Last Calib.: 1899.12.30
 Start Time: 10:00:00 End Time: 15:13:59 Time On Btm: 2019.01.18 @ 11:22:30
 Time Off Btm: 2019.01.18 @ 13:39:30

TEST COMMENT: 1st Opening 15 Minutes weak surface blow through out
 1st Shut-In 30 Minutes
 2nd Opening 30 Minutes weak surface blow through out
 2nd Shut-In 60 Minutes

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1758.02	100.80	Initial Hydro-static
1	64.36	100.94	Open To Flow (1)
16	78.57	101.20	Shut-In(1)
46	813.69	102.27	End Shut-In(1)
47	97.81	102.26	Open To Flow (2)
77	102.84	103.21	Shut-In(2)
137	610.96	105.35	End Shut-In(2)
137	1746.50	105.40	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
75.00	Drilling Mud	1.05

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company LLC

2-19s-14w Barton

9431 East Central Suite
Wichita ,Kansas 67205-2563

GBF"A" #1-2

Job Ticket: 01071

DST#: 4

ATTN: Renee Husted

Test Start: 2019.01.18 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3440.00 ft	Diameter: 3.80 inches	Volume: 48.25 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume: 48.25 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3440.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	59.77 ft				
Tool Length:	89.77 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3415.00	
Hydraulic tool	5.00			3420.00	
Jars	5.00			3425.00	
Safety Joint	5.00			3430.00	
Packer	5.00			3435.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	3440.00	
Anchor	5.00			3445.00	
Change Over Sub	0.75			3445.75	
Drill Pipe	31.27			3477.02	
Change Over Sub	0.75		Inside	3477.77	
Anchor	17.00			3494.77	
Recorder	0.00	9119	Inside	3494.77	
Recorder	0.00	91716	Outside	3494.77	
Bullnose	5.00			3499.77	59.77 Bottom Packers & Anchor

Total Tool Length: 89.77



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company LLC

2-19s-14w Barton

9431 East Central Suite
Wichita ,Kansas 67205-2563

GBF"A" #1-2

Job Ticket: 01071

DST#: 4

ATTN: Renee Husted

Test Start: 2019.01.18 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 57.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	Drilling Mud	1.052

Total Length: 75.00 ft Total Volume: 1.052 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

