

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	ILS LAND "A" 1-1
Doc ID	1406361

All Electric Logs Run

sonic cement bond log
frac-finder log
DCD/CN/ML
BHCS log
DIL
Microresistivity log

Mud-Co / Service Mud Inc.

Operator **FG Holl** County **Barton** State **Kansas** Pump **6** X **15** X **56** SPM Casing Program **8 5/8" @ 838 ft.**
 Well **ILS Land 'A' #1-1** Location _____ GPM **7.71** BPM _____ " @ _____ ft.
 Contractor **Duke Drlg #7** Sec **1** TWP **19S** RNG **14W** D.P. **4.5** in. **190** FT/MIN R.A. _____ " @ _____ ft.
 Stockpoint **Pratt, Ks.** Date **3/23/2018** Engineer **Rick Hughes** Collar **6.25** in. **450** ft. **346** FT/MIN R.A. Total Depth **3650** ft.

DATE	DEPTH feet	WEIGHT lb/gal	VISCOSITY			GELS 10 sec / 10 min.	pH Strip_ Meter _	FILTRATION/ILTRATION ANALYSIS					SAND %	RETORT			L.C.M.	Pump Press. PSI	CUMULATIVE COST	REMARKS AND TREATMENT	
			Sec API @_F	PV @_F	Yp			ml API	Cake 32nds	Pres. #/BBL	Cl ppm	Ca ppm		Solids %	Oil %	Water %					
3/23	0																			RURT	
3/24	671	11.0	45																1	Drlg. Stach displacement @ 1646	
3/25	838		W	A	T	E	R													WOC Chem displacement @ 2493	
3/26	1739	8.8	71	11	41	35/42	7.0	6.4	1		13.8M	N/C	2.7		97.3					Drlg.	
3/27	2354	9.5	52	10	28	23/31	7.0	9.2	2		29M	Hvy	6.9		93.1					CFS	
3/27	2617	8.7	68	22	24	15/38	11.5	6.4	1		2,800	20	2.7		97.3					Drlg. DST #1 @ 3152	
3/28	2882	9.1	54	17	17	9/36	11.0	6.4	2		2,600	20	5.6		94.4					Drlg. DST #2 @ 3306	
3/29	3152	9.2	65	26	22	12/28	10.5	6.8	1		2,800	20	6.3		93.7					DST #1 DST #3 @ 3368	
3/30	3306	9.3	64	23	22	11/42	10.5	6.4	2		3,500	20	7.0		93.0					DST #2 DST #4 @ 3426	
3/31	3368	9.3	74	23	27	21/72	10.0	8.8	2		5,800	40	6.8		93.2					CCH after DST3 DST #5 @ 3490	
4/1	3490	9.4	66	20	21	12/61	10.5	8.0	2		6,000	20	7.5		92.5					CFS DST #6 @ 3496	
4/2	3506	9.4	63	18	22	23/66	10.5	8.0	2		7,400	40	7.4		92.6					CFS LTD 3650	
4/3	3650	9.2	43	12	11	6/22	10.0	8.4	2		5,700	40	6.1		93.9	1				CCH to LDDP Ran pipe	
																				Final:	
																					LTD - 3650'
																					6 DST's.
																					Run Casing.
																					Reserve Pit, Chl content ppm: 24,000
																					Estimated Volume: ~500 bbls of free fluids

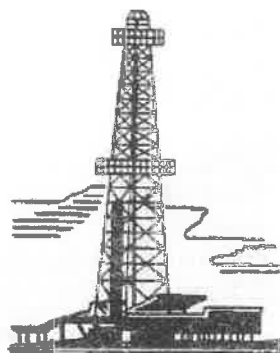
MUD-CO / SERVICE MUD INC.

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

DRILLING MUD RECAP

Materials	Sacks	Amount	Materials	Sacks	Amount	Amount
C/S HULLS	78					
CAUSTIC SODA	17					
DRILL PAK	4					
LIME	2					
PREMIUM GEL	310					
SAPP	3					
SODA ASH	19					
STARCH	63					
SUPER LIG	12					
X-CIDE 102W	1					
						Total Mud Cost
						Trucking Cost
						Trucking Surcharge
						Taxes
						TOTAL COST

WELLSITE GEOLOGIST REPORT



WELLSITE GEOLOGIST'S REPORT

J. R. Hustead
Consulting Geologist



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

Well Name: ILS Land "A" No. 1-1
Location: SEC. 1-T19S-14W
License Number: 15-009-26,209-0000
Spud Date: MARCH 23 2018

Region: Barton, Kansas
Drilling Completed: APRIL 2 2018

Surface Coordinates: 1020' FNL, 1520' FEL, 30' S., 130' E of SE NW NE

Bottom Hole Coordinates:
Ground Elevation (ft): 1880' **K.B. Elevation (ft):** 1893'
Logged Interval (ft): 1700 **To:** 3650' **Total Depth (ft):** 3650'
Formation: LANSING/KS , ARBUCKLE
Type of Drilling Fluid: STARCH/CHEMICAL

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

OPERATOR

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

GEOLOGIST

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

ROCK TYPES

	Anhy
	Bent
	Brec
	Cht
	Clyst
	Coal
	Congl
	Dol

	Gyp
	Igne
	Lmst
	Meta
	Mrlst
	Salt
	Shale
	Shcol

	Shgy
	Sltst
	Ss
	Till
	Carb sh
	Dol
	Dtd
	Gry sh

	Sandylms
	Shale
	Sltstn
	Shlyslts
	Sltyslts
	Lms

ACCESSORIES

FOSSIL

Algae
 Amph
 Belm
 Bioclst
 Brach
 Bryozoa
 Cephal
 Coral
 Crin
 Echin
 Fish
 Foram
 Fossil
 Gastro
 Oolite
 Ostra
 Pelec
 Pellet
 Pisolite
 Plant
 Strom
 Fuss
 Oomold

MINERAL

Anhy
 Arggrn
 Arg
 Bent
 Bit
 Breclfrag
 Calc
 Carb
 Chtdk
 Chtlt
 Dol
 Feldspar
 Ferrpel
 Ferr
 Glau
 Gyp
 Hvymin
 Kaol
 Marl
 Minxl
 Nodule
 Phos
 Pyr

Salt
 Sandy
 Silt
 Sil
 Sulphur
 Tuff
 Chlorite
 Dol
 Sand
 Sltly

STRINGER

Anhy
 Arg
 Bent
 Coal
 Dol
 Gyp
 Ls
 Mrst
 Sltstrg
 Ssstrg
 Carbsh
 Clystn

Dol
 Gryst
 Gryslt
 Lms
 Sandylms
 Sh
 Sltstn

TEXTURE

Boundst
 Chalky
 Cryxln
 Earthy
 Finexln
 Grainst
 Lithogr
 Microxln
 Mudst
 Packst
 Wackest

DRILLING CONTRACTOR

DUKE RIG #7, DRILL PIPE 4.5 INCHES X H (16.6#), COLLARS 6.25 X 2.25 X 537', BIT JZ HA 20 7 7/8 INCHES, 3-15 JETS, TRIPLE DERRICK, KELLY BUSHING 13 FT ABOVE GROUND LEVEL; GAYLEN ROACH (TOOL-PUSHER)

SURFACE CASING

**SURFACE CASING SET AT 8 5/8 INCHES AT 838' WITH SAXS OF CEMENT
 PRODUCTION CASING SET AT INCHES ATWITH SAXS OF CEMENT**

GAS DETECTION

ANALOG UNIT MBC INC HW/CHROM (FROM 1500' TO 3650')

CIRCULATION SYSTEM

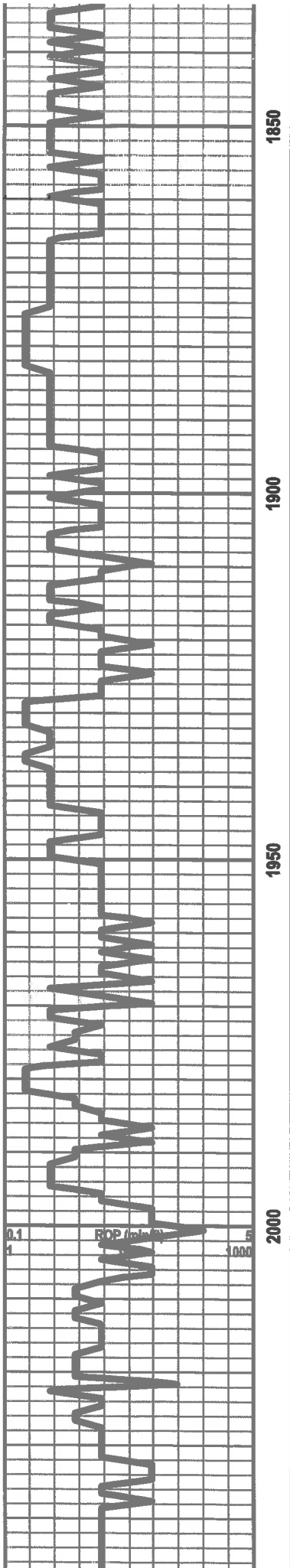
;MUD CO SERVICE INC-, DUPLEX, 14W-1400, LINER SIZE 6,STROKE 15,STRK/MIN 56 GAL/MIN ,RICK HUGHES- 1-620-752-5425 -GREAT BEND,KANSAS

ELECTRIC LOGS

DUAL COMPENSATED PORSITY,MICRO LOG;DUAL INDUCTION LOG;FRAC FINDER; BORE HOLE COMPENSATED;SONIC LOG;MICRO RESISTIVITY LOG

COMPLETION

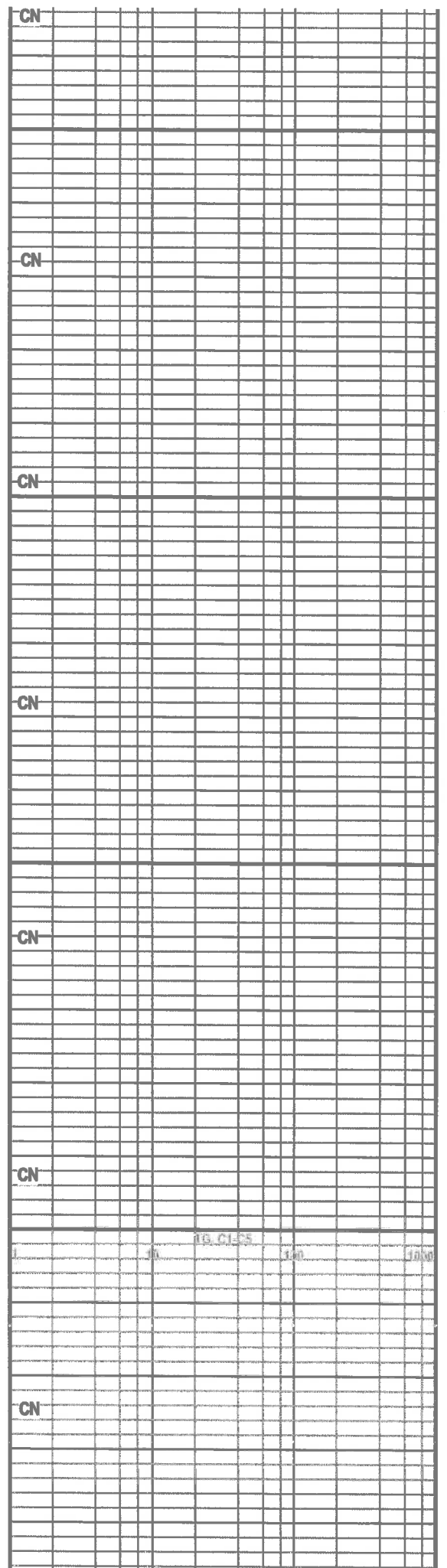
PRODUCTION CASING SET ON LANSING/KC AND ARBUCKLE

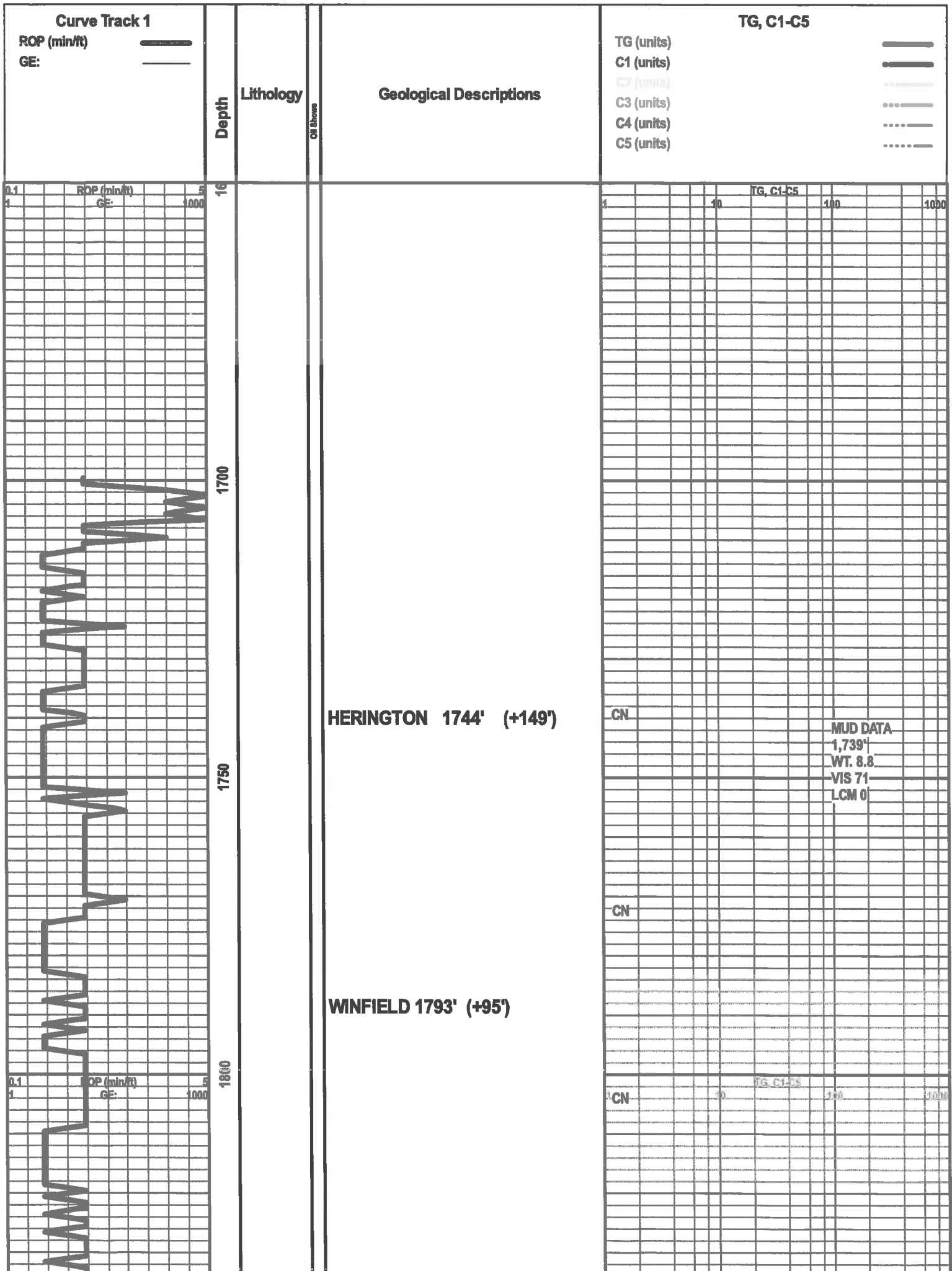


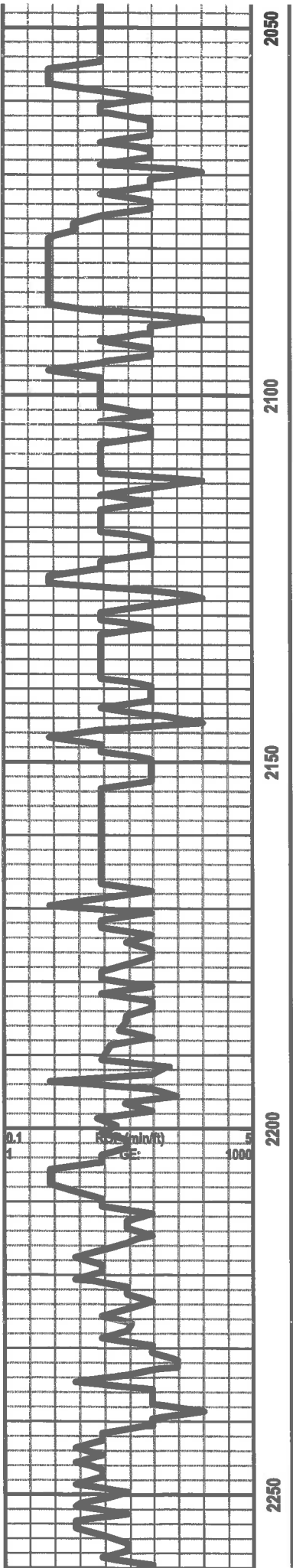
TOWANDA 1865' (+28')

FT RILEY 1904' (-11')

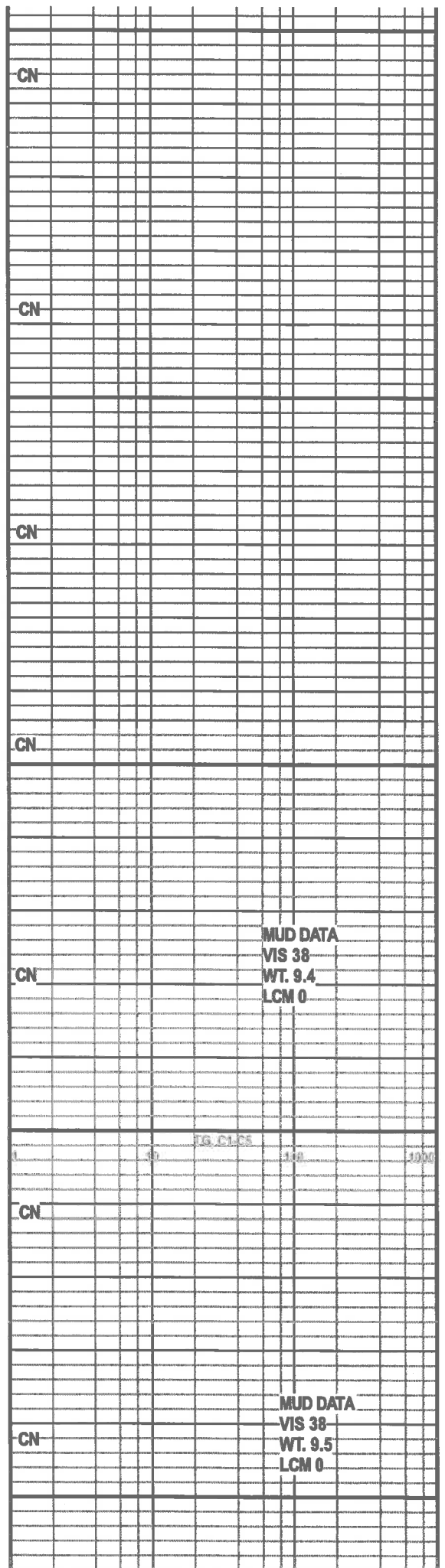
B/FLORENCE 2010' (-117')



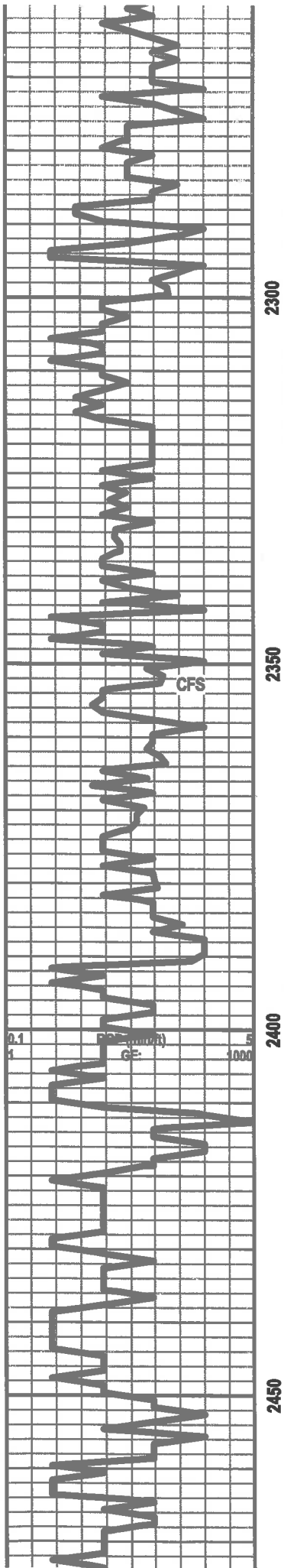




COUNCIL GROVE 2075' (-182')

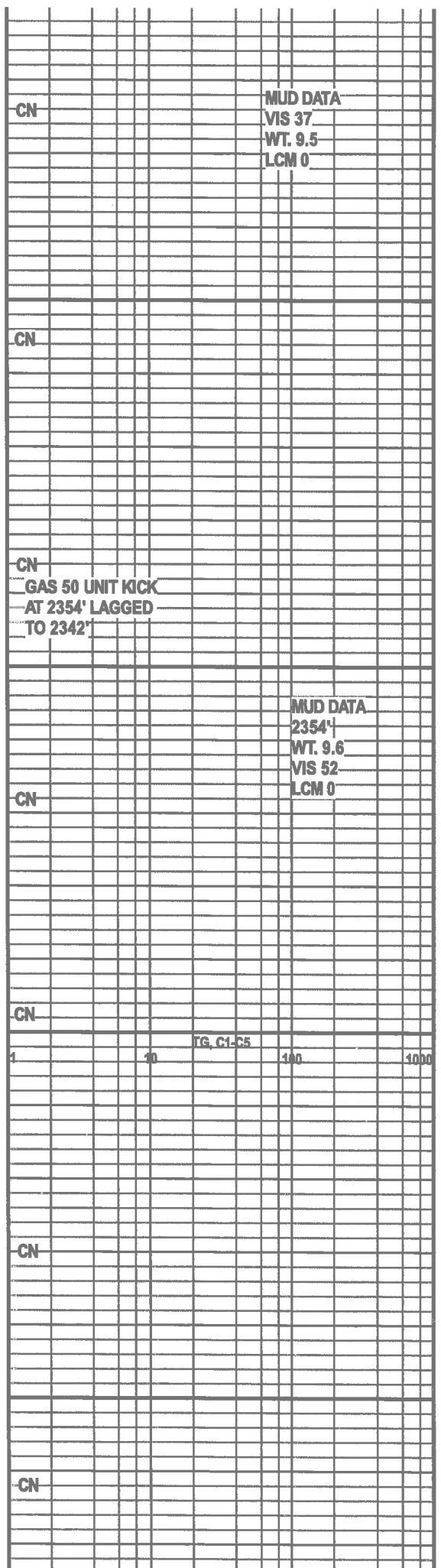


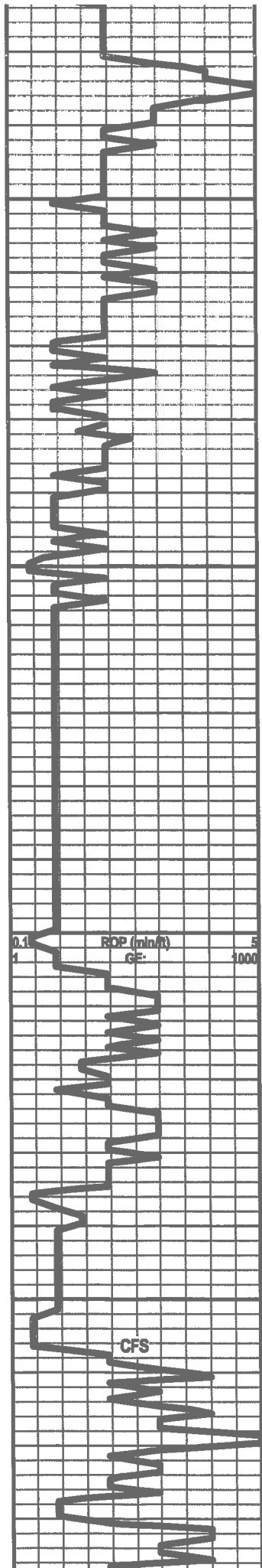
NEVA 2256' (-365')



RED EAGLE 2325' (-437')

**LS-TN/GRY -M-XLN-TR SH IMBD-FOSS
FRAGS-BRIT-FR INTER-XLN/SM VUG POR-GAS
KICK**





2500

2550

2600

2650

POOR SAMPLES

LS-OFF WHT-F-GRN-SM OOL-BIRT-TR
OOL-MOLDIC POR-SH-GRY-SPLNTY

LS-OFF WHT/GRY-F-XLN-FOSS-TR OCC VUG
POR TO NO VIS POR-MSTLY HD AND DNS

SH-DK GRY-SFT-GUMMY

SH-V LT GRY-SFT-SILTY TR BRAC SHELL
FOSS

SS-FRSTY WHT-V F-GRN-SHLY CMT-FRI-SLI TR
INTER-GRN POR

SH-MED GRY-V-SFT-SILTY-TR SND

SH A.A.

SH AND SS A.A.

STOTLER 2604' (-711')

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

LS A.A. AND CHLK-WHT SFT

SS-FRSTY GRY-F-M GRN-FRI IP TO HD-FR
SRTE-LT GRY SH IMBD-PR TO FR INTER-GRN
POR-GAS KICK

TARKIO 2657' (-764')

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

LS-DK BRN-F-XLN-SM PYR XLS-FOSS
SHELL-HD-DNS

SH-GRY-BLKY

LS-OFF WHT-F-GRN-CHLKY-FOSS-SFT

CN

DISPLACE MUD AT
2493'

CN

CN

CN

CN

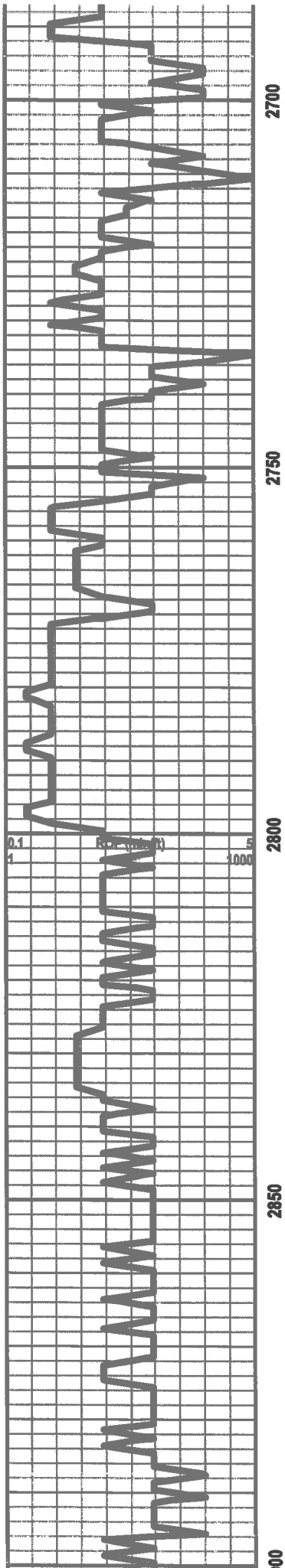
CN

CN

FG. C1-C5

MUD DATA
2617'
WT. 8.7
VIS 68
LCM 0

HOTWIRE GAS
KICK 60 UNIT AT
2651' LAGGED TO
2635'



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

SH-GRY-BLKY

LS-DK BRN-F-GRN/XLN-HD-DNS TR PYR XLS

SH-LT GRY-SILTY-SFT

LS-TN-F-XLN-FOSS-GREEN MINERAL
GLAUC-HD-DNS

SLTSS-FRSTY WHT-M-GRN-HEM-TT-TR
INTER-GRN POR

SLTSS/LS A.A.

LS-TN-F-XLN-OOL-TR VUG POR-CHLK IN TRAY

SH-LT GRY-BLKY-SILTY

SH -GRY-SILTY

SLTSS-FRSTY GRY-F-GRN-SHLY

POOR SAMPLE

SH-GRY-SFT-BLKY

HOWARD 2799' (-906")

LS-CRM-F-XLN-HD-DNS-FREE FOSS FUS

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

SH-GRY-BLKY-FOSS

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

LS-GRY-BLOCKY-HD-DNS

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

LS-OFF WHT-V-F-XLN-CHLKY IP-BRIT-TR FOSS

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

LS-OFF WHT-F-XLN/GRN-FOSS-PYR-TR SH
IMBD-BRIT TO HD-NO VIS POR TR CHLK IN
TRAY

MUD DATA
VIS 60
WT. 8.9
LCM 0

MUD DATA
VIS 58
WT. 8.9
LCM 0

HOTWIRE 6 UNIT
GAS INCRS THRU
THE SND/SH SEC
OF HOWARD

FG, C1-C5
1 10 100 1000

MUD DATA
VIS 56
WT. 9.0
LCM 0

HOTWIRE 7 UNIT
GAS INCRS

MUD DATA
VIS 53
WT. 9.1
LCM 0

MUD DATA
2882'
WT. 9.1
VIS 54
LCM 0

CN

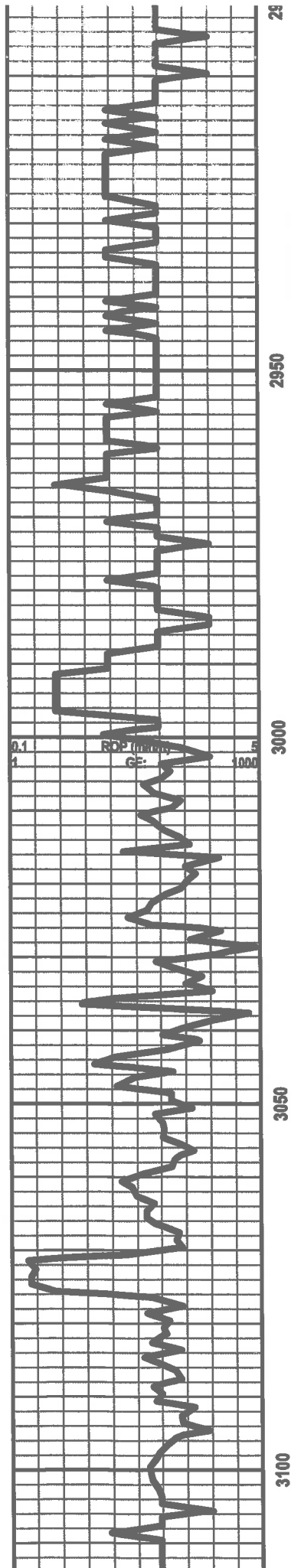
CN

CN

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

CN

LS A.A. W/ CHRT-DK BRN-OPQ-FRS-FOSS

LS-GRY-F-GRN-FOSS FRAG-BRIT-TR
INTER-GRN POR-NO SHOW

CN

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

LS-CRM-F-GRN-OOL-PR OOL-MOLDIC POR

LS A.A.

CN

LS-OFF WHT/CRM-F-XLN/GRN-FOSS-OOL -SM
VUG POR TO NO VIS POR-NO SHOW

SH-BLK-CARB

SH-GRY-BLKY

LS-GRY-F-XLN-FOSS-SHLY IP-BRIT-TR OF
FOSS VUG POR TO NO VIS POR

CN

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

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

SH-LT GRY-BLKY

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

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

CN

LS-DK BRN-OOL-HD-DNS W/
CHRT-BRN-OPQ-FOSS

SH-BLK-CARB

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

LS-CRM/OFF WHT-F-XLN-CHLKY-TR FOSS
-BRIT-NO VIS POR

CN

LS-TN-F-XLN-OOL-GD-OOL-MOLDIC POR-GAS
KICK-NO VIS STN-BRIGHT YEL FLOR-NO VIS
CUT

HOTWIRE 10 UNIT
GAS INCRS

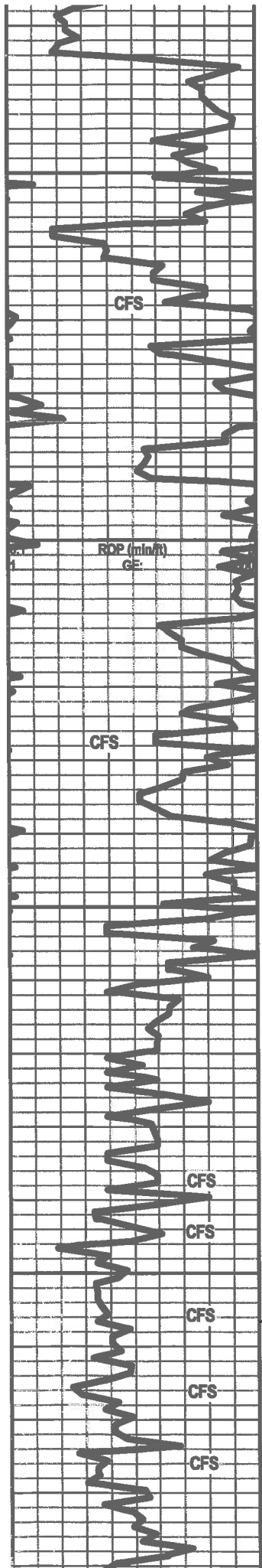
LS-CRM-F-XLN-BLOCKY-HD-DNS TR SH DK
BRN IMBD

LS/SH A.A.

CN

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

LS-TN/GRY-F-GRN-OOL-FOSS-HD-DNS-TR SH
IMBD



LS A.A. TR LT BRN STN (1pc)

LS-LT GRY-F-XLN-FOSS-HD-DNS W/
SH-GRY-BLKY

LS A.A.

SH-BLK-CARB

LS-TN-F-XLN-V-OOL-TR OOL-MOLDIC POR W/
GD INTER-PRT POR-LT BRN STN-YEL GLD
FLOR-GD STRM CUT-FNT ODOR

POOR SAMPLE SHLY-NO VIS SHOW

LS-TN-F-XLN-OOL-FR INTER-PRT/PP POR-LT
BRN STN-GLD FLOR-GD CUT-V-FNT ODOR

LS-TN-F-XLN-FOSS-FR INTER-PRT
POR/VUG-GLD FLOR-GD STRM CUT-V-FNT
ODOR

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

LS-TN-F-XLN-V-OOL-FR INTER-PRT POR-LT BRN STN-GLD
FLOR-GD STRM CUT-FNT ODOR

LS-TN-F-XLN-HD-DNS W/ EDGE POR CALC XLS-LT BRN
STN-TR GLD FLOR-FR STRM CUT-NO ODOR

LS-TN-GRY-F-XLN-HD-DNS W/
CHRT-TN-OPQ-FRSH- SH-LT GRY-BLKY

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

B/KANSAS CITY 3452' (-1559')
CONGLOMERATE

SH-RED-SFT-GUMMY W/ CHRT-RED-OPQ-FRSH

SH-RED-SFT-SILTY-W/
CHRT-TN-RED-OPQ-FRSH

ARBUCKLE 3480' (-1587')

DOLO-TN-F-GRN-TR TO PR INTER-GRN POR-LT BRN
STN-GLD FLOR-NO STRM CUT TO PR STRM CUT WHEN
TAPPED WITH TWEEZERS-GD ODOR

DOLO-TN-M-GRN-SUCRO-GD INTER-GRN POR-GLD
FLOR-GD STRM CUT-GD ODOR

DOLO-TN-M-GRN-SUCRO-GD INTER-GRN
OR-GLD FLOR-GD STRM CUT-GD ODOR

DOLO A.A. W/TR OOL-MOLDIC POR

DOLO-LT TN-F/M-GRN-TR GD VUG POR IP TO
PP POR IP-LT BRN STN (5%) DK BLK STN-FNT
ODOR

DOLO-TN/OFF WHT-F-GRN-SUCRO-TR PP
POR-DK BLK STN-TR FLOR-FLSH CUT-NO
ODOR

CN

HOTWIRE 100
UNIT GAS INCRS

CN

GAS DETECTOR
OFF CHART

CN

CN

GAS DETECTOR
OFF CHART

CN

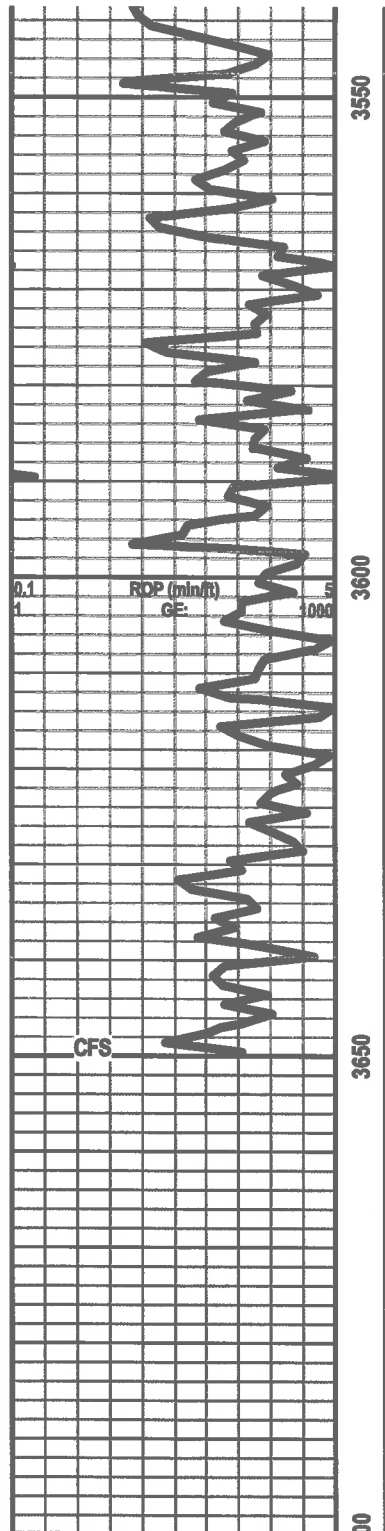
MUD DATA
3490'
WT.9.4
VIS 66
FIL 8.0
LCM 0

DST #3
3344-3368
REC-2150' CLEAN
GASSEY OIL
IBLW-STRG BLW
BOB IN 1 MIN
FBLW-STRG BLW
GAS TO SURF IN
12 MIN
5/60/45/90
IFP-119-143
FFP-120-431
SIP-1206-1185
HP-1689-1655

FG, C1-C5
1in 1000
DST #4
3370-3426
REC- 600 FT GIP
30 FT OIL CUT
MUD
IBLW-FR BLW BLT
TO 11 IN INTO
WATER
FBLW-FR BLT OF 5
GALLON BUCKET
IN 16 MIN
15/60/45/90
IFP-58-60
FFP-61-68
SIP-304-212
HP-1729-1691

DST #5
3444'-3490'
REC-6 IN OF
CLEAN OILON
TOP OF TOOL;5FT
OIL CUT MUD
IBLW-WK BLW
FOR 6 MIN
FBLW-NO BLW
15/30/15/30
IFP-52-61
FFP-60-63
SIP-1091-1049
HP-1792-1737

DST #6
3489-3496
REC-360' GIP
900' CLEAN
GASSEY OIL
IBLW-GD BLW BLT
BOB IN 4 MIN
FBLW-GD BLW
BOB IN MIN
IFP-49-291
FFP-112-315
SIP-288-372



DOLO A.A. TR CHRT-TN-OPQ-FRAC-DK BLK
STN-LG PYR XLS IN TRAY

HP-1796-1630

DOLO-OFF WHT-F-GRN-SNDY TEX-OOL
IP-HD-DNS

DOLO-OFF WHT-F-XLN-OOL-SNDY
TEX-HD-DNS W/ CHRT-OFF WHT-OPQ-FRSH

DOLO A.A.

DOLO A.A. W/ VUG POR AND LG PYR XLS IN
TRAY

DOLO-TN-M-GRN-SUCRO-BRIT-PR INTER-GRN
POR - NO SHOW

DOLO A.A. W/ GOOD INTER-GRN POR

DOLO-TN-F-GRN-SNDY-HD-DNS W/ CHRT-OFF
WHT-OPQ-FRSHA

10, 01-25

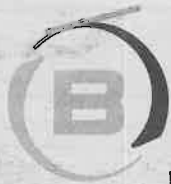
DOLO A.A. W/ CHRT-OFF WHT-OOL-FRSH

DOLO-TN-F-GRN-SNDY-HD-DNS W/ CHRT

DOLO-A.A. W/ TR DOLO-TN-F-GRN-OOL-GD
OOL-MOLDIC POR

DOLO-TN-F-GRN-SNDY W/CHRT-OFF WHT-OPQ

DOLO A.A.



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 16529 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:									
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
						ARRIVED AT JOB				
						START OPERATION				
						FINISH OPERATION				
						RELEASED				
						MILES FROM STATION TO WELL				

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CE 101	3150
CE 102	7800
CE 103	300
CE 104	866
CE 105	225
CE 106	455
CE 107	170
CE 108	50
CE 109	290
CE 110	975
CE 111	360
CE 112	10
CE 113	490
CE 114	25
CE 115	170

SUB TOTAL 14,935

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		8280

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 Hull	Lease No.		Date	3-24-18
Lease	ILS Land A	Well #	1-1		
Field Order #	16529	Station	Pratt	Casing	8 5/8
Type Job	2-42		8 5/8 SURFACE	Depth	845
				County	BARON
				State	KS
				Formation	
				Legal Description	1-19-14

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size	8 5/8	Tubing Size		Acid	175 A-CO1	RATE	3%
Depth	841.35	From		Pre Pad	175 common	PRESS	290 CC
Volume	54.9	To		Pad		ISIP	25 CR
Max Press	500	From		Min			10 Min.
Well Connection	PC	To		Frac			15 Min.
Plug Depth	800.6	From		HHP Used			Annulus Pressure
Packer Depth		To		Flush	52.3		Total Load
				Gas Volume			

Customer Representative	Rob Long	Station Manager	WASTRIMAN	Treater	MATTAL
-------------------------	----------	-----------------	-----------	---------	--------

Service Units	83353	84981	19843	19960	19860
Driver Names	MATTAL	SPARKS		WHATTLEY	

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
8:20					ON LOCATION/SAFETY MEETING
9:30					Run 8 5/8 20th casing, 11.19
10:30					CSNG ON BOTTOM
10:44					Hook on CSNG/13 inch circ w Rig
10:49	200		3	6	Pump 3 bbl water
10:50	200		77	6	Mix 175 SWS A-CO1
11:08	250		37	5	Mix 175 SWS COMMON
11:17					release plug
11:20	250			5	START DISPLACEMENT
11:40	400		52.3		Plug down, shut in well
					CMT TO SURFACE

JOB COMPLETE
 THANK YOU!
 Mike Mattal
 MATT + DILLON



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 16293 A

DATE _____ TICKET NO. _____

DATE OF JOB		DISTRICT		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				LEASE				WELL NO.	
ADDRESS				COUNTY		STATE			
CITY		STATE		SERVICE CREW					
AUTHORIZED BY				JOB TYPE:					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
						ARRIVED AT JOB		PM	
						START OPERATION		AM	
						FINISH OPERATION		PM	
						RELEASED		AM	
						MILES FROM STATION TO WELL		PM	

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
P-105	PIPE	SK	150		
P-103	PIPE	SK	75		
C-102	CONCRETE	LB	75		
C-105	CONCRETE	LB	71		
C-1211	CONCRETE	LB	7000		
C-1498	CONCRETE	LB	483		
C-201	CONCRETE	LB	8.5		
C-251	CONCRETE	LB	1501		
CF-407	CONCRETE	EA	1		
CF-1651	CONCRETE	EA	1		
F-200	CONCRETE	EA	100		
F-1401	CONCRETE	EA	10		
F-1551	CONCRETE	EA	1		
F-204	CONCRETE	EA	100		

SUB TOTAL

CHEMICAL / ACID DATA			

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.



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

FIELD SERVICE TICKET

~~1718 16294 A~~

CONTINUATION
 DATE 4/3/2018 TICKET NO. 1718 16293A

DATE OF JOB: 4-3-2018	DISTRICT	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: FG HOLL	LEASE: ILS LAND A	WELL NO. 1-1					
ADDRESS:	COUNTY: BARTON	STATE: KS					
CITY:	STATE:	SERVICE CREW: LESLEY, MARQUEZ, CLYMER					
AUTHORIZED BY:	JOB TYPE: 242 5 1/2" L.S.						

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
						ARRIVED AT JOB				
						START OPERATION				
						FINISH OPERATION				
						RELEASED				
						MILES FROM STATION TO WELL				

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

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
E 100	PICKUP MILEAGE	MI	65		292.50
E 101	HEAVY EQUIPMENT MILEAGE	MI	130		475.00
E 113	BULK DELIVERY CHARGE	TM	66.3		1,657.50
CE 204	DEPTH CHARGE 3001-4000'	HR	1-4		2,160.00
CE 240	BLENDING SERVICE	SK	285		315.00
CE 504	PLUG CONTAINER CHARGE	JOB	1		250.00
CE 501	CASING SWIVEL RENTAL	EA	1		200.00
S 003	SERVICE SUPERVISOR	EA	1		175.00

SUB TOTAL 20,559.27

CHEMICAL / ACID DATA:			

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

TOTAL 11,718.78
 DLS

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



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 ~~16294~~ A

DATE _____ TICKET NO. 1718 16293A

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 <u>F 1166</u>				LEASE <u>725 1166 A</u>				WELL NO. <u>1166</u>							
ADDRESS _____				COUNTY <u>BARTON</u>				STATE <u>KS</u>							
CITY _____				STATE _____				SERVICE CREW <u>LESLIE, HANCOCK, GILBERT</u>							
AUTHORIZED BY _____				JOB TYPE: <u>243 5/4 1/2</u>											
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME					
						ARRIVED AT JOB									
						START OPERATION									
						FINISH OPERATION									
						RELEASED									
						MILES FROM STATION TO WELL									

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

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

ITEM/PRICE REF NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E 101	PICKUP MILEAGE	HR	25		2125
E 101	TRAVEL EQUIPMENT MILEAGE	HR	130		775
E 113	TRUCK DELIVERY CHARGE	TRUCK	163		1157
CE 204	DEPTH CHANGE 300' WIRE	HR	14		2160
CE 240	PLEADING SERVICE	SK	135		315
E 504	TRUCK CONTAINER CHARGE	CONT	1		250
E 501	CASING SWIVEL RENTAL	HR	1		460
3173	SERVICE SUPERVISOR	CA	1		175

SUB TOTAL

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 HOLL	Lease No.	Date 4-3-2018
Lease ILS LAND A	Well # 1-1	
Field Order # 16293	Station PRATT, KS.	Casing 5 1/2"
		Depth 3650'
Type Job 5 1/2" L.S.	Formation	County BARTON
		State Ks
		Legal Description 1-19-14

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft	CMT -	150SKS AA-2	RATE	PRESS	ISIP	
5 1/2" x 17"								Max 5 Min.
Depth 3612'	Depth	From	To	Pre Pad @ 1.37 cuft³				Min 10 Min.
Volume 84.5 BBL	Volume	From	To	Pad				Avg 15 Min.
Max Press # 2000	Max Press	From	To	Frac				HHP Used
Well Connection P.C.	Annulus Vol.	From	To	Flush 84 BBL				Annulus Pressure
Plug Depth 3621.2'	Packer Depth	From	To					Gas Volume
								Total Load

Customer Representative Rob Long	Station Manager J.W.	Treater K. LESLEY
Service Units 86531 84980 20980 19960 19860		
Driver Names LESLEY MARQUEZ — PLYMER —		

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
12:00 PM					ON LOCATION! - SAFETY MEETING
3:15 PM					RUN 5 1/2" x 17" CSG.
5:05 PM					TURBO - 2,3,4,5,6,7,8,9,10,11
5:30 PM					BASKET - BOTTOM OF #6
7:30 PM	250		5	5	CSG. ON BOTTOM
7:31 PM	250		12	5	BREAK CIRC. W/RIG - START ROTATION!
7:42 PM	250		5	5	H₂O AHEAD
7:45 PM	250		5	5	SUPER FLUSH
7:47 PM	300		37	5	H₂O SPACER
7:54 PM					MIX 25 SKS SCAVENGER @ 13#/GAL
7:59 PM	0		0	6	MIX 150 SKS AA2 @ 15 PPG
8:11 PM	800		72	5	SHUT DOWN - CLEAR PUMP & LINES
8:12 PM	500		74	4	START DISPLACEMENT
8:15 PM	1500		84	3	LIFT PRESSURE
8:30 PM			7, 5		SLOW RATE
					PLUG DOWN! - HELD
					PLUG R.H. & M.H.
					JOB COMPLETE.
					THANKS -
					KEVIN LESLEY



DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67530

ATTN: Rene Husted

ILS Land "A" #1-1

1-13s-14w Barton

Start Date: 2018.03.29 @ 04:15:00

End Date: 2018.03.29 @ 11:03:00

Job Ticket #: 01113 DST #: 1

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

Printed: 2018.03.29 @ 11:22:15



DRILL STEM TEST REPORT

F.G. Holl Companyh LLC

1-13s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

ATTN: Rene Hustedad

Job Ticket: 01113

DST#: 1

Test Start: 2018.03.29 @ 04:15:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:09:00

Time Test Ended: 11:03:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: 3116.00 ft (KB) To 3152.00 ft (KB) (TVD)

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3152.00 ft (KB) (TVD)

1883.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 9139 Outside

Press@RunDepth: 1128.60 psig @ 3147.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2018.03.29

End Date: 2018.03.29

Last Calib.: 2018.03.29

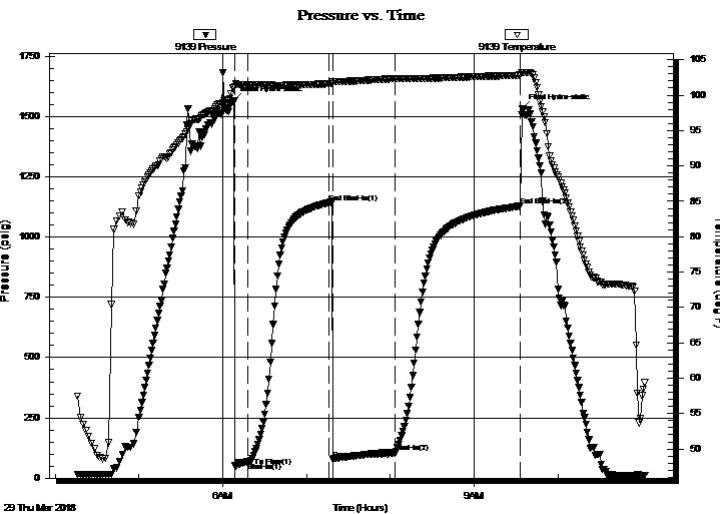
Start Time: 04:16:00

End Time: 11:02:30

Time On Btm: 2018.03.29 @ 06:07:30

Time Off Btm: 2018.03.29 @ 09:34:30

TEST COMMENT: 1st Opening 10 Minutes Good blow built to 11 1/2 inches into the water
1st Shut-In 60 Minutes No blow back
2nd Opening 45 Minutes Good blow built to the bottom of a 5 gallon bucket in 6 minutes
2ndn Shut-In 90 Minutes weak blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1564.47	101.07	Initial Hydro-static
1	50.66	101.21	Open To Flow (1)
11	67.80	101.52	Shut-In(1)
69	1142.73	101.61	End Shut-In(1)
72	77.04	101.96	Open To Flow (2)
116	105.44	102.34	Shut-In(2)
206	1128.60	102.83	End Shut-In(2)
207	1533.96	103.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	clean oil thick low gravity	0.14
120.00	oil cut mud w ould not grind out	1.68

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Companyh LLC

1-13s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

ATTN: Rene Hustedad

Job Ticket: 01113

DST#: 1

Test Start: 2018.03.29 @ 04:15:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:09:00

Time Test Ended: 11:03:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: 3116.00 ft (KB) To 3152.00 ft (KB) (TVD)

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3152.00 ft (KB) (TVD)

1883.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 9119 Inside

Press@RunDepth: 1118.28 psig @ 3147.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2018.03.29

End Date: 2018.03.29

Last Calib.: 2018.03.29

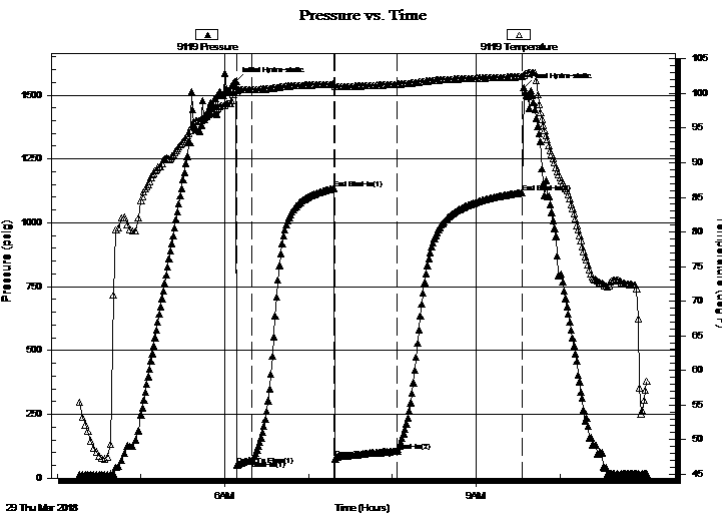
Start Time: 04:16:00

End Time: 11:02:30

Time On Btm: 2018.03.29 @ 06:07:30

Time Off Btm: 2018.03.29 @ 09:34:00

TEST COMMENT: 1st Opening 10 Minutes Good blow built to 11 1/2 inches into the water
1st Shut-In 60 Minutes No blow back
2nd Opening 45 Minutes Good blow built to the bottom of a 5 gallon bucket in 6 minutes
2nd Shut-In 90 Minutes weak blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1554.06	100.69	Initial Hydro-static
1	51.38	100.19	Open To Flow (1)
12	68.63	100.55	Shut-In(1)
71	1134.79	101.34	End Shut-In(1)
72	75.90	101.02	Open To Flow (2)
116	105.59	101.33	Shut-In(2)
205	1118.28	102.42	End Shut-In(2)
207	1528.44	102.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	clean oil thick low gravity	0.14
120.00	oil cut mud w ould not grind out	1.68

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Companyh LLC

1-13s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

Job Ticket: 01113

DST#: 1

ATTN: Rene Husted

Test Start: 2018.03.29 @ 04:15:00

Tool Information

Drill Pipe:	Length: 3099.00 ft	Diameter: 3.80 inches	Volume: 43.47 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: 74000.00 lb
			<u>Total Volume: 43.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3116.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	66.00 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			3091.00	
Hydraulic tool	5.00			3096.00	
Jars	5.00			3101.00	
Safety Joint	5.00			3106.00	
Packer	5.00			3111.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	3116.00	
Anchor	31.00			3147.00	
Recorder	0.00	9119	Inside	3147.00	
Recorder	0.00	9139	Outside	3147.00	
Bullnose	5.00			3152.00	36.00 Bottom Packers & Anchor
Total Tool Length:	66.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Companyh LLC

1-13s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

Job Ticket: 01113

DST#: 1

ATTN: Rene Husted

Test Start: 2018.03.29 @ 04:15:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 6.40 in³
Resistivity: ohm.m
Salinity: 2600.00 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
10.00	clean oil thick low gravity	0.140
120.00	oil cut mud w ould not grind out	1.683

Total Length: 130.00 ft Total Volume: 1.823 bbl

Num Fluid Samples: 0

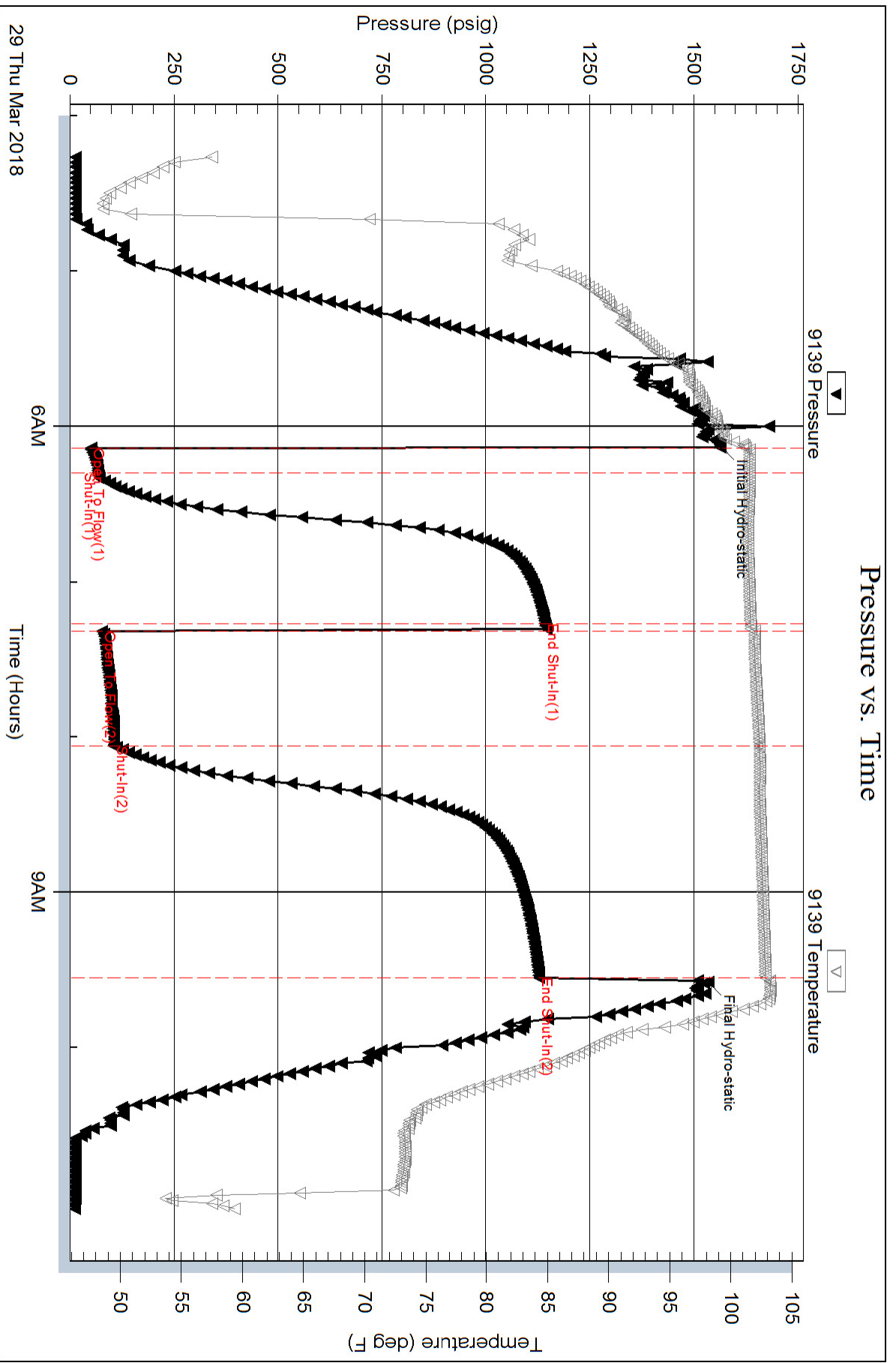
Num Gas Bombs: 0

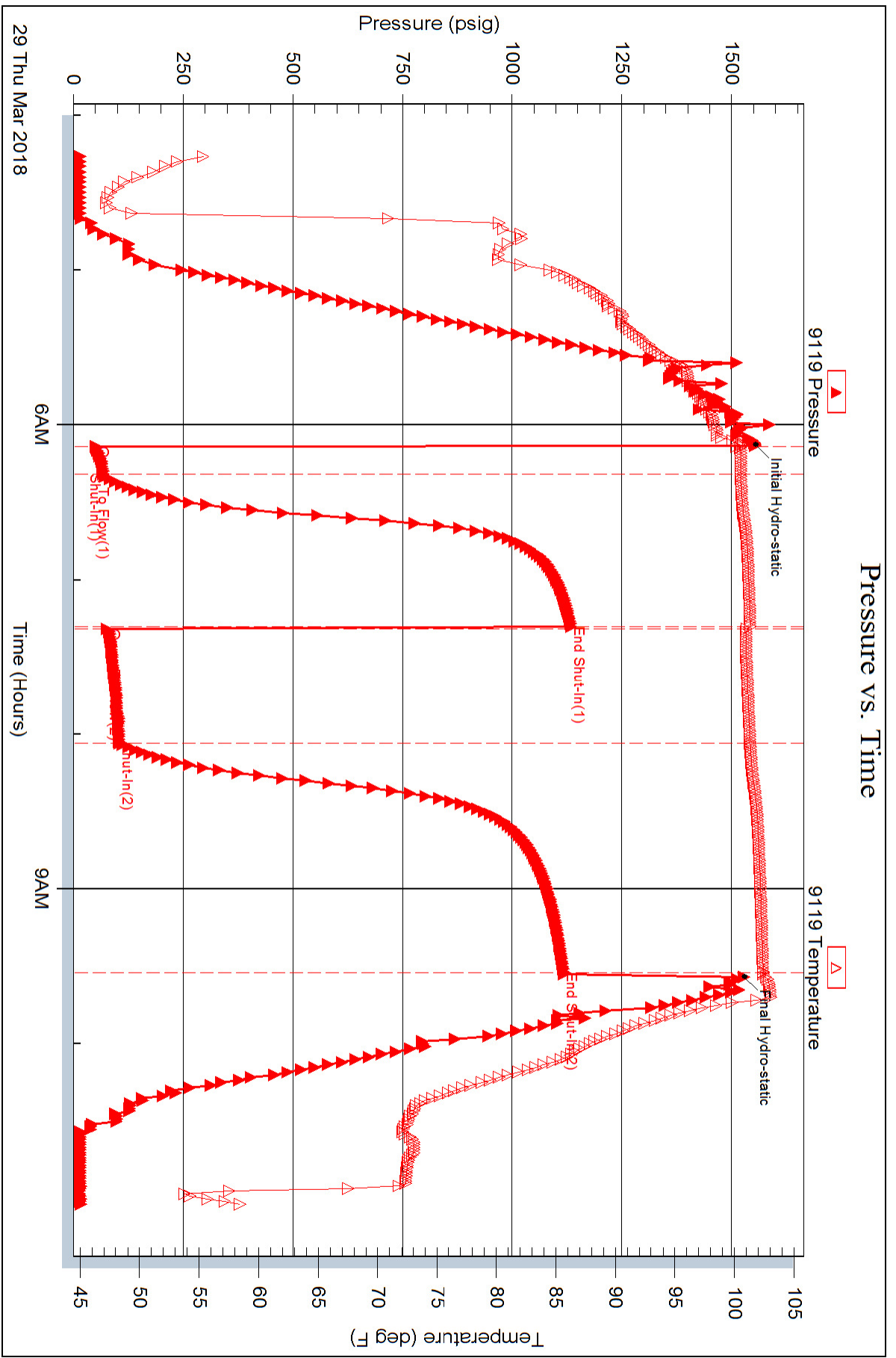
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67530

ATTN: Rene Husted

ILS Land "A" #1-1

1-13s-14w Barton

Start Date: 2018.03.30 @ 02:32:00

End Date: 2018.03.30 @ 09:14:00

Job Ticket #: 01114 DST #: 2

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

Printed: 2018.03.30 @ 09:48:04



DRILL STEM TEST REPORT

F.G. Holl Companyh LLC

1-13s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

ATTN: Rene Hustedad

Job Ticket: 01114

DST#: 2

Test Start: 2018.03.30 @ 02:32:00

GENERAL INFORMATION:

Formation: **Kansas City ""A-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:06:00

Time Test Ended: 09:14:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: 3320.00 ft (KB) To 3306.00 ft (KB) (TVD)

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3320.00 ft (KB) (TVD)

1883.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 9119

Inside

Press@RunDepth: 1155.47 psig @ 3301.06 ft (KB)

Capacity: 5000.00 psig

Start Date: 2018.03.30

End Date:

2018.03.30

Last Calib.:

2018.03.30

Start Time:

02:32:00

End Time:

09:14:29

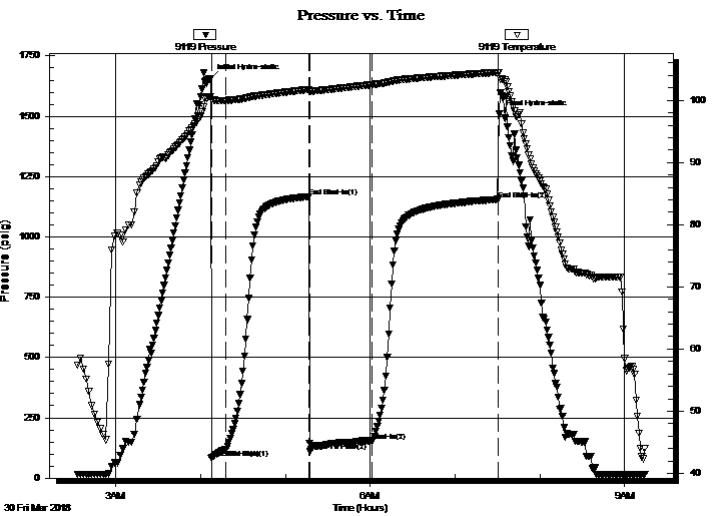
Time On Btm:

2018.03.30 @ 04:07:00

Time Off Btm:

2018.03.30 @ 07:31:00

TEST COMMENT: 1st Opening 10 Minutes good blow built to the bottom of a 5 gallon bucket in 8 minutes
1st Shut-In 60 Minutes good blow back
2nd Opening 45 Minutes good blow built to the bottom of a 5 gallon bucket in 2 minutes
2nd Shut-In 90 Minutes good blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1657.01	100.58	Initial Hydro-static
1	82.28	100.10	Open To Flow (1)
11	118.75	99.99	Shut-In(1)
70	1167.25	101.75	End Shut-In(1)
71	112.15	101.47	Open To Flow (2)
115	154.70	102.52	Shut-In(2)
204	1155.47	104.49	End Shut-In(2)
204	1508.28	104.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	heavy oil cut mud 40% Oil 60%Mud	1.68
120.00	heavy oil cut mud	1.68
0.00	20% Gas 30%Oil 50%Mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Companyh LLC

1-13s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

ATTN: Rene Hustedad

Job Ticket: 01114

DST#: 2

Test Start: 2018.03.30 @ 02:32:00

GENERAL INFORMATION:

Formation: **Kansas City ""A-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:06:00

Time Test Ended: 09:14:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: 3320.00 ft (KB) To 3306.00 ft (KB) (TVD)

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3320.00 ft (KB) (TVD)

1883.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 9139 Outside

Press@RunDepth: 1166.92 psig @ 3301.06 ft (KB)

Capacity: 5000.00 psig

Start Date: 2018.03.30

End Date: 2018.03.30

Last Calib.: 2018.03.30

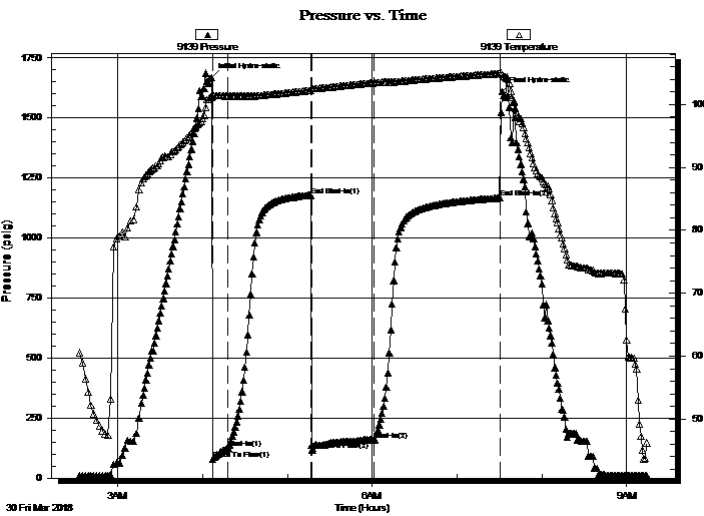
Start Time: 02:32:00

End Time: 09:14:29

Time On Btm: 2018.03.30 @ 04:06:30

Time Off Btm: 2018.03.30 @ 07:32:00

TEST COMMENT: 1st Opening 10 Minutes good blow built to the bottom of a 5 gallon bucket in 8 minutes
1st Shut-In 60 Minutes good blow back
2nd Opening 45 Minutes good blow built to the bottom of a 5 gallon bucket in 2 minutes
2nd Shut-In 90 Minutes good blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1668.20	101.18	Initial Hydro-static
1	78.39	101.21	Open To Flow (1)
12	123.93	101.35	Shut-In(1)
70	1175.12	102.24	End Shut-In(1)
71	116.99	102.55	Open To Flow (2)
115	159.62	103.46	Shut-In(2)
204	1166.92	104.91	End Shut-In(2)
206	1609.85	104.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	heavy oil cut mud 40% Oil 60%Mud	1.68
120.00	heavy oil cut mud	1.68
0.00	20% Gas 30%Oil 50%Mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Companyh LLC

1-13s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

Job Ticket: 01114

DST#: 2

ATTN: Rene Husted

Test Start: 2018.03.30 @ 02:32:00

Tool Information

Drill Pipe:	Length: 3193.00 ft	Diameter: 3.80 inches	Volume: 44.79 bbl	Tool Weight: 20009.00 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: 44.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3220.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.06 ft			
Tool Length:	116.06 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			3195.00	
Hydraulic tool	5.00			3200.00	
Jars	5.00			3205.00	
Safety Joint	5.00			3210.00	
Packer	5.00			3215.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	3220.00	
Anchor	3.00			3223.00	
Change Over Sub	0.75			3223.75	
Drill Pipe	63.56			3287.31	
Change Over Sub	0.75		Inside	3288.06	
Anchor	13.00			3301.06	
Recorder	0.00	9119	Inside	3301.06	
Recorder	0.00	9139	Outside	3301.06	
Bullnose	5.00			3306.06	86.06 Bottom Packers & Anchor

Total Tool Length: 116.06



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Companyh LLC

1-13s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

Job Ticket: 01114

DST#: 2

ATTN: Rene Husted

Test Start: 2018.03.30 @ 02:32:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 65.00 sec/qt
Water Loss: 6.80 in³
Resistivity: ohm.m
Salinity: 2800.00 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
120.00	heavy oil cut mud 40% Oil 60%Mud	1.683
120.00	heavy oil cut mud	1.683
0.00	20% Gas 30%Oil 50%Mud	0.000

Total Length: ft Total Volume: 3.366 bbl

Num Fluid Samples: 0

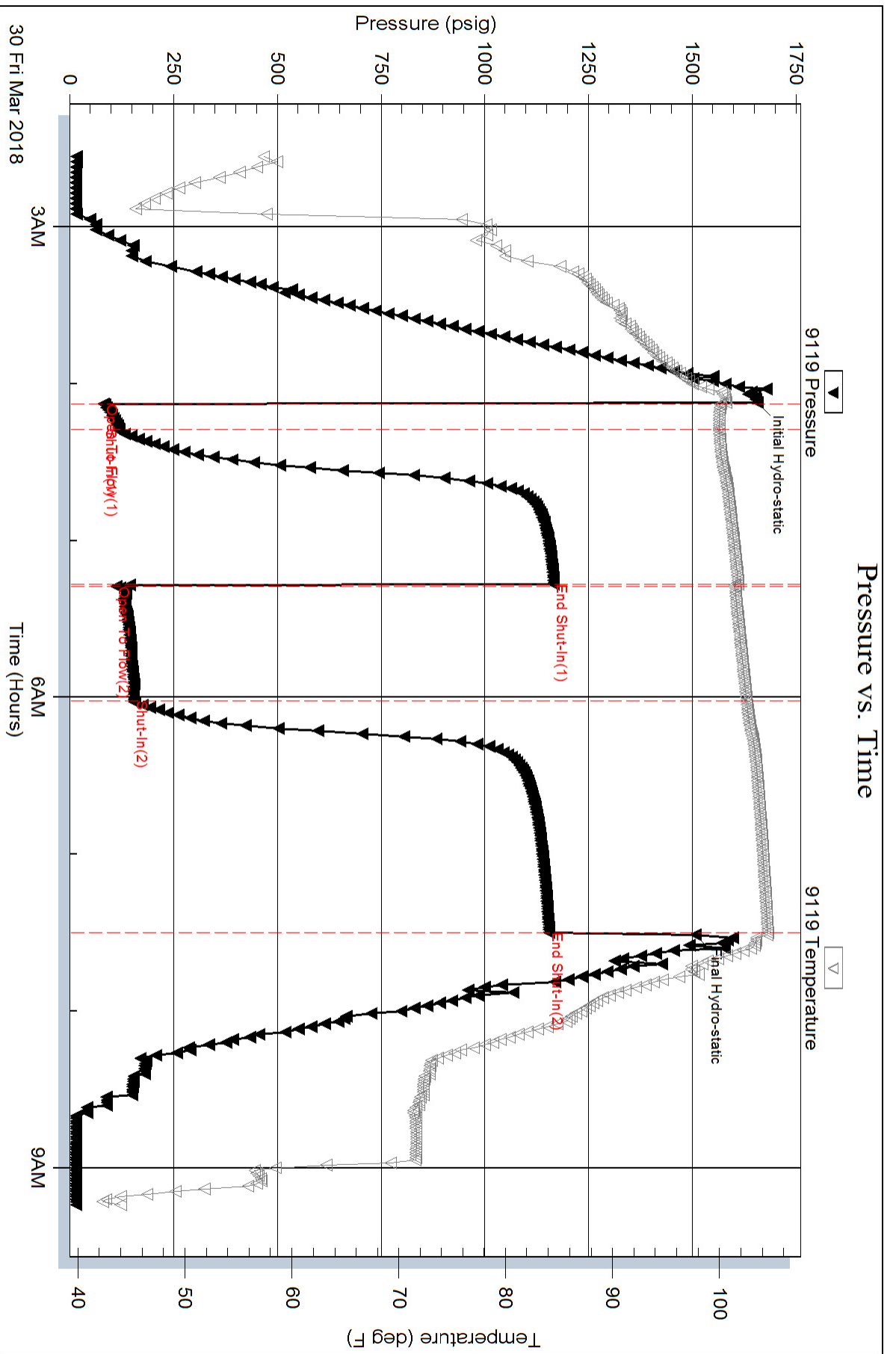
Num Gas Bombs: 0

Serial #:

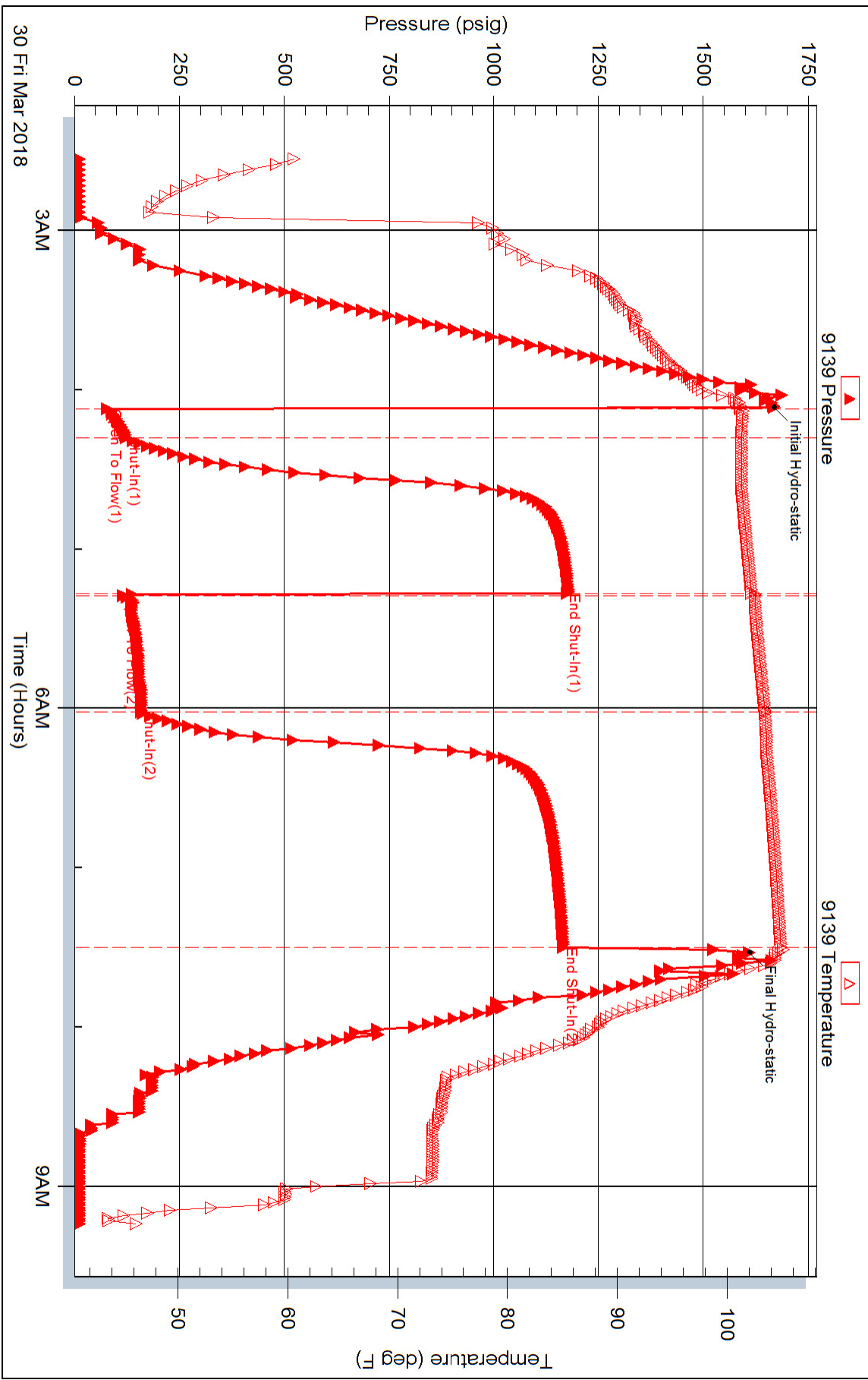
Laboratory Name:

Laboratory Location:

Recovery Comments:



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67530

ATTN: Rene Husted

ILS Land "A" #1-1

1-13s-14w Barton

Start Date: 2018.03.30 @ 19:48:00

End Date: 2018.03.30 @ 00:00:00

Job Ticket #: 01115 DST #: 3

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

Printed: 2018.03.31 @ 04:38:52



DRILL STEM TEST REPORT

F.G. Holl Companyh LLC

1-13s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

ATTN: Rene Husted

Job Ticket: 01115

DST#: 3

Test Start: 2018.03.30 @ 19:48:00

GENERAL INFORMATION:

Formation: **Kansas City"H "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:23:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Genen Budig

Unit No: 1

Interval: 3344.00 ft (KB) To 3368.00 ft (KB) (TVD)

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3368.00 ft (KB) (TVD)

1883.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 9119 Inside

Press@RunDepth: 1185.42 psig @ 3363.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2018.03.30

End Date: 2018.03.31

Last Calib.: 2018.03.31

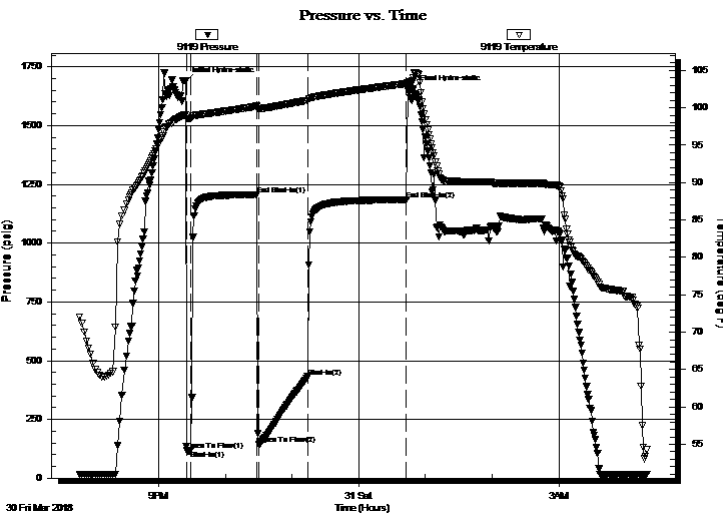
Start Time: 19:48:00

End Time: 04:19:00

Time On Btm: 2018.03.30 @ 21:24:00

Time Off Btm: 2018.03.31 @ 00:48:30

TEST COMMENT: 1st Opening 5 Minutes Strong blow built to the bottom of a 5 gallon buck in less than 1 minute
1st Shut-In 60 Minutes good blow back
2nd Opening 45 Minutes strong blow gas to surface in 12 minutes
2nd Shut-In 90 Minutes-Good blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1689.10	99.06	Initial Hydro-static
2	119.16	98.58	Open To Flow (1)
5	119.85	98.57	Shut-In(1)
65	1206.01	100.22	End Shut-In(1)
66	143.33	99.89	Open To Flow (2)
110	430.91	100.99	Shut-In(2)
199	1185.42	103.24	End Shut-In(2)
205	1655.00	103.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2150.00	Clean gassy oil 30%Gas 70%Oil	30.16

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	6.90	7.97
Last Gas Rate	0.13	9.00	8.76
Max. Gas Rate	0.13	9.00	8.76



DRILL STEM TEST REPORT

F.G. Holl Companyh LLC

1-13s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

ATTN: Rene Husted

Job Ticket: 01115

DST#: 3

Test Start: 2018.03.30 @ 19:48:00

GENERAL INFORMATION:

Formation: **Kansas City"H "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:23:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Genen Budig

Unit No: 1

Interval: 3344.00 ft (KB) To 3368.00 ft (KB) (TVD)

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3368.00 ft (KB) (TVD)

1883.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 9139 Outside

Press@RunDepth: 1195.18 psig @ 3363.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2018.03.30

End Date: 2018.03.30

Last Calib.: 2018.03.31

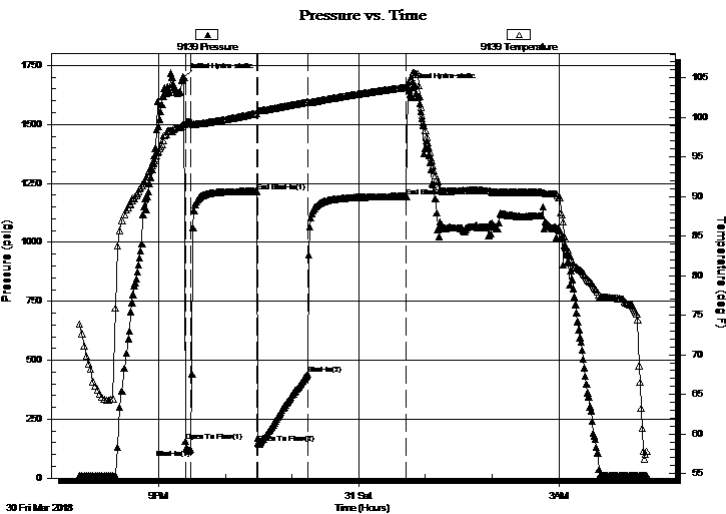
Start Time: 19:48:00

End Time: 19:48:00

Time On Btm: 2018.03.30 @ 21:23:00

Time Off Btm: 2018.03.31 @ 00:44:00

TEST COMMENT: 1st Opening 5 Minutes Strong blow built to the bottom of a 5 gallon buck in less than 1 minute
1st Shut-In 60 Minutes good blow back
2nd Opening 45 Minutes strong blow gas to surface in 12 minutes
2nd Shut-In 90 Minutes-Good blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1699.43	99.07	Initial Hydro-static
1	156.97	99.19	Open To Flow (1)
6	121.86	99.37	Shut-In(1)
65	1216.10	100.50	End Shut-In(1)
67	147.47	100.83	Open To Flow (2)
111	440.74	101.94	Shut-In(2)
201	1195.18	103.81	End Shut-In(2)
201	1657.83	104.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2150.00	Clean gassy oil 30%Gas 70%Oil	30.16

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	6.90	7.97
Last Gas Rate	0.13	9.00	8.76
Max. Gas Rate	0.13	9.00	8.76



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Companyh LLC

1-13s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

Job Ticket: 01115

DST#: 3

ATTN: Rene Husted

Test Start: 2018.03.30 @ 19:48:00

Tool Information

Drill Pipe:	Length: 3344.00 ft	Diameter: 3.80 inches	Volume: 46.91 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: 46.91 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3344.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 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			3319.00	
Hydraulic tool	5.00			3324.00	
Jars	5.00			3329.00	
Safety Joint	5.00			3334.00	
Packer	5.00			3339.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	3344.00	
Anchor	19.00			3363.00	
Recorder	0.00	9119	Inside	3363.00	
Recorder	0.00	9139	Outside	3363.00	
Bullnose	5.00			3368.00	24.00 Bottom Packers & Anchor
Total Tool Length:	54.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Companyh LLC

1-13s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

Job Ticket: 01115

DST#: 3

ATTN: Rene Husted

Test Start: 2018.03.30 @ 19:48:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 65.00 sec/qt
Water Loss: 6.80 in³
Resistivity: ohm.m
Salinity: 2800.00 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
2150.00	Clean gassy oil 30%Gas 70%Oil	30.159

Total Length: 2150.00 ft Total Volume: 30.159 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

GAS RATES

F.G. Holl Companyh LLC

1-13s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

Job Ticket: 01115

DST#: 3

ATTN: Rene Hustedad

Test Start: 2018.03.30 @ 19:48:00

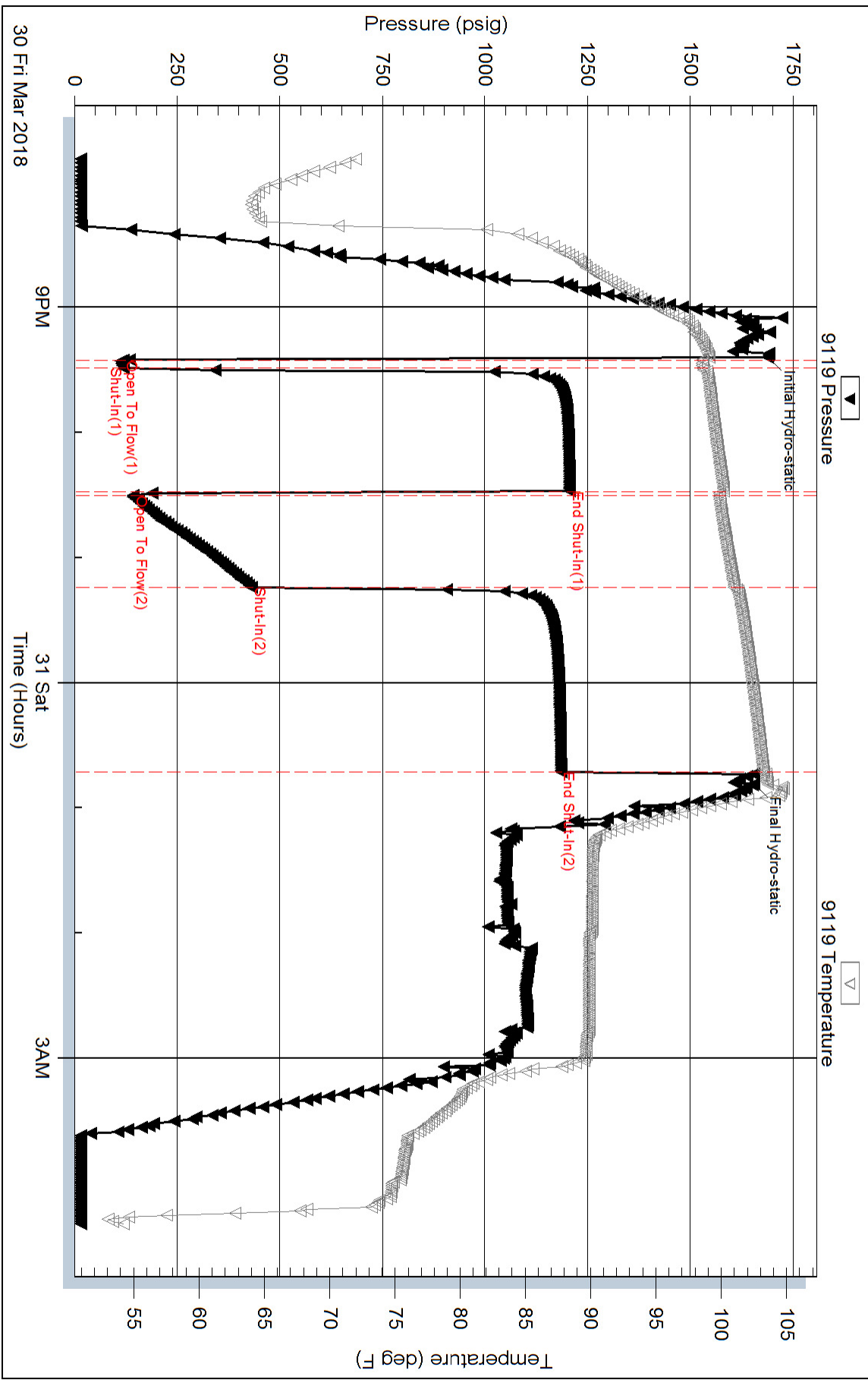
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

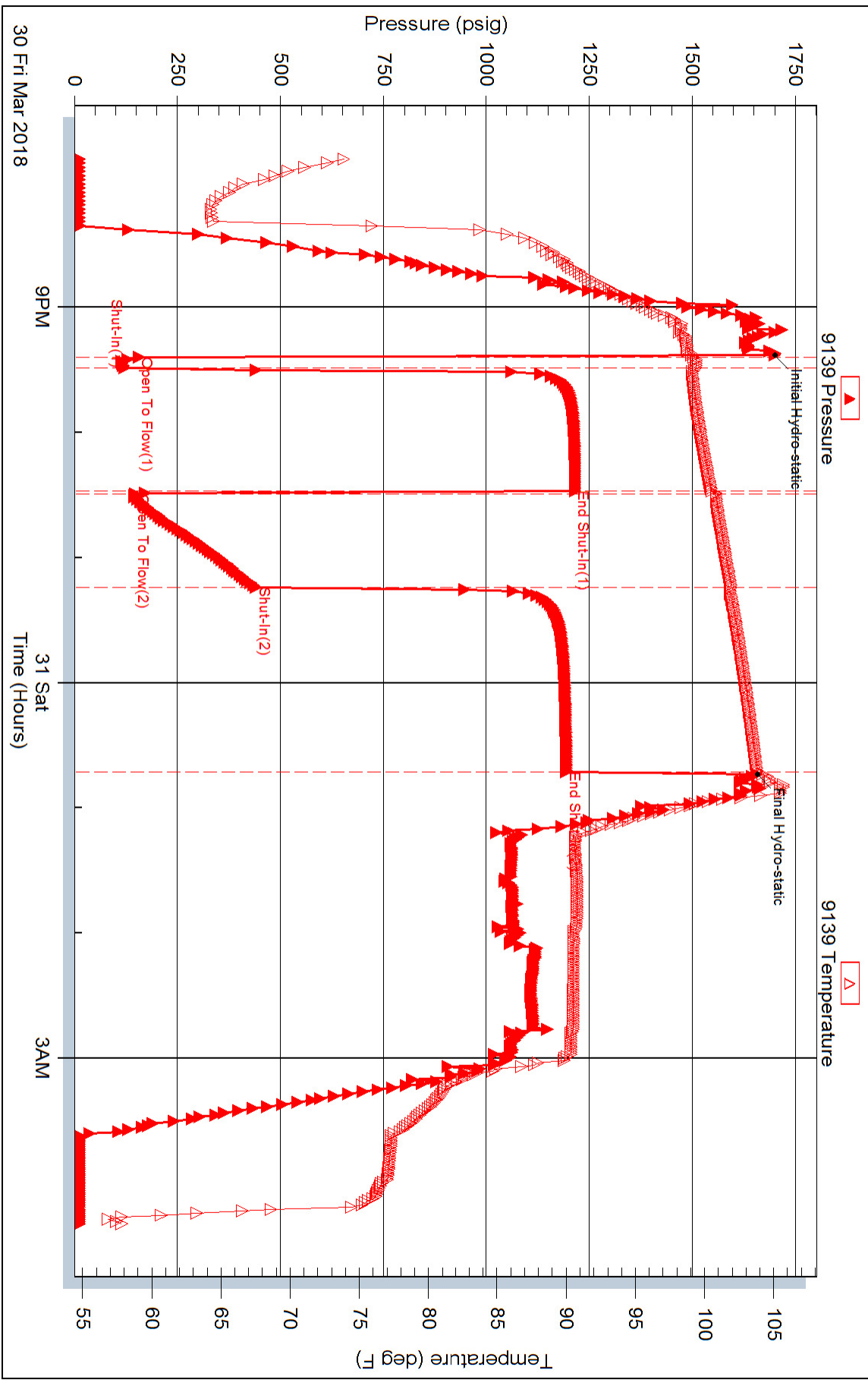
Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	20	0.13	6.90	7.97
2	30	0.13	6.90	7.97
2	40	0.13	9.00	8.76

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67530

ATTN: Rene Husted

ILS Land "A" #1-1

1-19s-14w Barton

Start Date: 2018.03.31 @ 03:33:00

End Date: 2018.03.31 @ 10:16:00

Job Ticket #: 01117 DST #: 4

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

Printed: 2018.03.31 @ 22:36:23



DRILL STEM TEST REPORT

F.G. Holl Companyh LLC

1-19s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

ATTN: Rene Hustedad

Job Ticket: 01117

DST#: 4

Test Start: 2018.03.31 @ 03:33:00

GENERAL INFORMATION:

Formation: **Kansas City "I-J &K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:12:00

Time Test Ended: 10:16:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: 3370.00 ft (KB) To 3426.00 ft (KB) (TVD)

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3426.00 ft (KB) (TVD)

1883.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 9139 Outside

Press@RunDepth: 212.15 psig @ 3421.18 ft (KB)

Capacity: 5000.00 psig

Start Date: 2018.03.31

End Date: 2018.03.31

Last Calib.: 1899.12.30

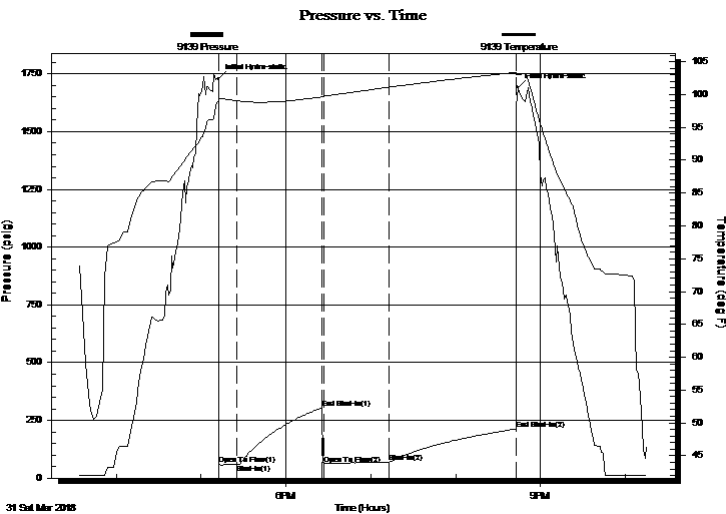
Start Time: 15:33:00

End Time: 22:15:29

Time On Btm: 2018.03.31 @ 17:12:00

Time Off Btm: 2018.03.31 @ 20:44:00

TEST COMMENT: 1st Opening 15 Minutes fair blow built to 11 inches into the water
 1st Shut-In 60 Minutes no blow back
 2nd Opening 45 Minutes fair blow built to the bottom of a 5 gallon bucket in 16 Minutes
 2nd Shut-In 90 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1728.93	98.99	Initial Hydro-static
1	58.22	99.39	Open To Flow (1)
13	60.88	99.05	Shut-In(1)
74	304.50	99.62	End Shut-In(1)
75	60.19	99.75	Open To Flow (2)
121	68.44	101.10	Shut-In(2)
211	212.15	103.36	End Shut-In(2)
212	1691.22	103.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
600.00	GAS IN THE PIPE	6.78
30.00	OIL CUT MUD 40%OIL 60%MUD	0.42

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Companyh LLC

1-19s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

ATTN: Rene Husted

Job Ticket: 01117

DST#: 4

Test Start: 2018.03.31 @ 03:33:00

GENERAL INFORMATION:

Formation: **Kansas City "I-J &K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:12:00

Time Test Ended: 10:16:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: 3370.00 ft (KB) To 3426.00 ft (KB) (TVD)

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3426.00 ft (KB) (TVD)

1883.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 9119 Inside

Press@RunDepth: 208.43 psig @ 3421.18 ft (KB)

Capacity: 5000.00 psig

Start Date: 2018.03.31

End Date:

2018.03.31

Last Calib.:

2018.03.31

Start Time: 15:33:00

End Time:

22:15:29

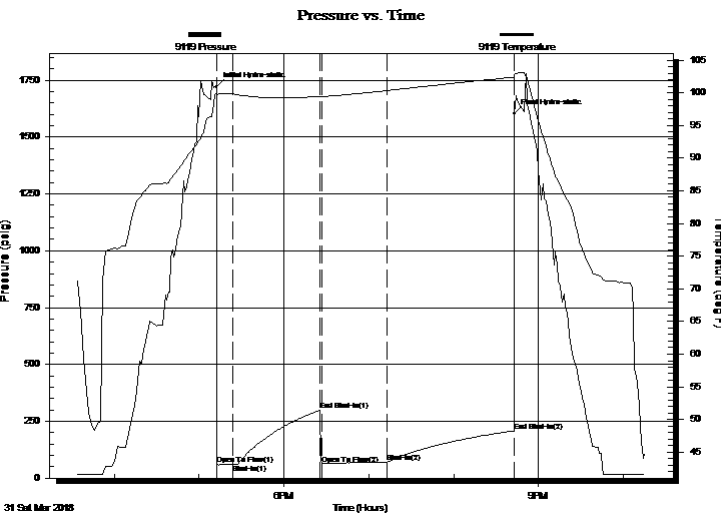
Time On Btm:

2018.03.31 @ 17:12:00

Time Off Btm:

2018.03.31 @ 20:43:00

TEST COMMENT: 1st Opening 15 Minutes fair blow built to 11 inches into the water
1st Shut-In 60 Minutes no blow back
2nd Opening 45 Minutes fair blow built to the bottom of a 5 gallon bucket in 16 Minutes
2nd Shut-In 90 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1720.02	100.06	Initial Hydro-static
1	59.34	99.64	Open To Flow (1)
12	62.05	99.79	Shut-In(1)
74	298.09	99.45	End Shut-In(1)
75	61.83	99.41	Open To Flow (2)
121	69.95	100.33	Shut-In(2)
211	208.43	102.37	End Shut-In(2)
211	1603.21	102.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
600.00	GAS IN THE PIPE	6.78
30.00	OIL CUT MUD 40%OIL 60%MUD	0.42

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Companyh LLC

1-19s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

Job Ticket: 01117

DST#: 4

ATTN: Rene Husted

Test Start: 2018.03.31 @ 03:33:00

Tool Information

Drill Pipe:	Length: 3170.00 ft	Diameter: 3.80 inches	Volume: 44.47 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	74000.00 lb
			<u>Total Volume: 45.36 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	3370.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	56.18 ft				
Tool Length:	86.18 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			3345.00	
Hydraulic tool	5.00			3350.00	
Jars	5.00			3355.00	
Safety Joint	5.00			3360.00	
Packer	5.00			3365.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	3370.00	
Anchor	3.00			3373.00	
Change Over Sub	0.75			3373.75	
Drill Pipe	31.68			3405.43	
Change Over Sub	0.75		Inside	3406.18	
Anchor	15.00			3421.18	
Recorder	0.00	9119	Inside	3421.18	
Recorder	0.00	9139	Outside	3421.18	
Bullnose	5.00			3426.18	56.18 Bottom Packers & Anchor

Total Tool Length: 86.18



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Companyh LLC

1-19s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

Job Ticket: 01117

DST#: 4

ATTN: Rene Husted

Test Start: 2018.03.31 @ 03:33:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 74.00 sec/qt
Water Loss: 8.80 in³
Resistivity: ohm.m
Salinity: 5800.00 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
600.00	GAS IN THE PIPE	6.777
30.00	OIL CUT MUD 40%oL 60%MUD	0.421

Total Length: 630.00 ft Total Volume: 7.198 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

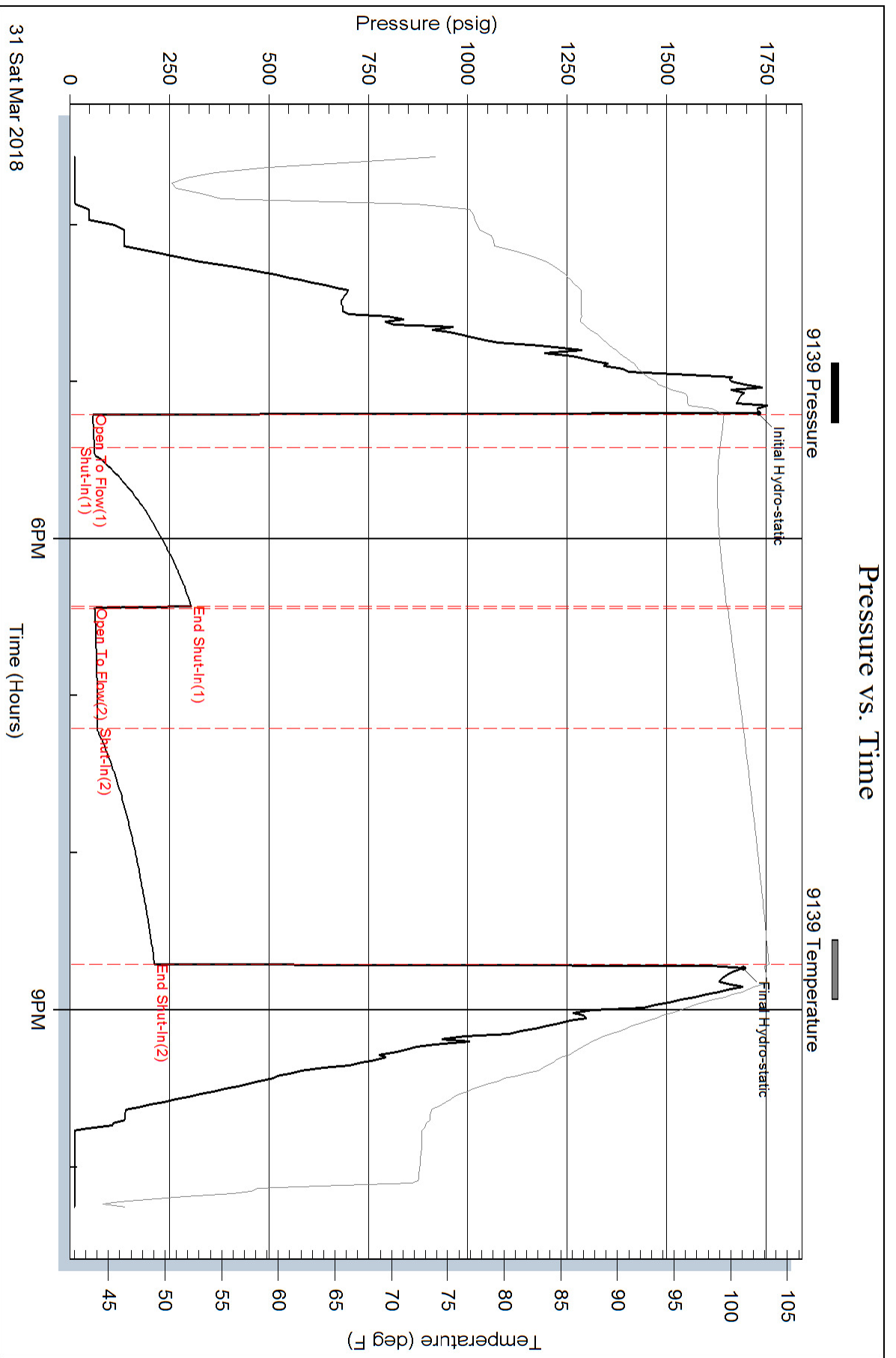
Serial #:

Laboratory Name:

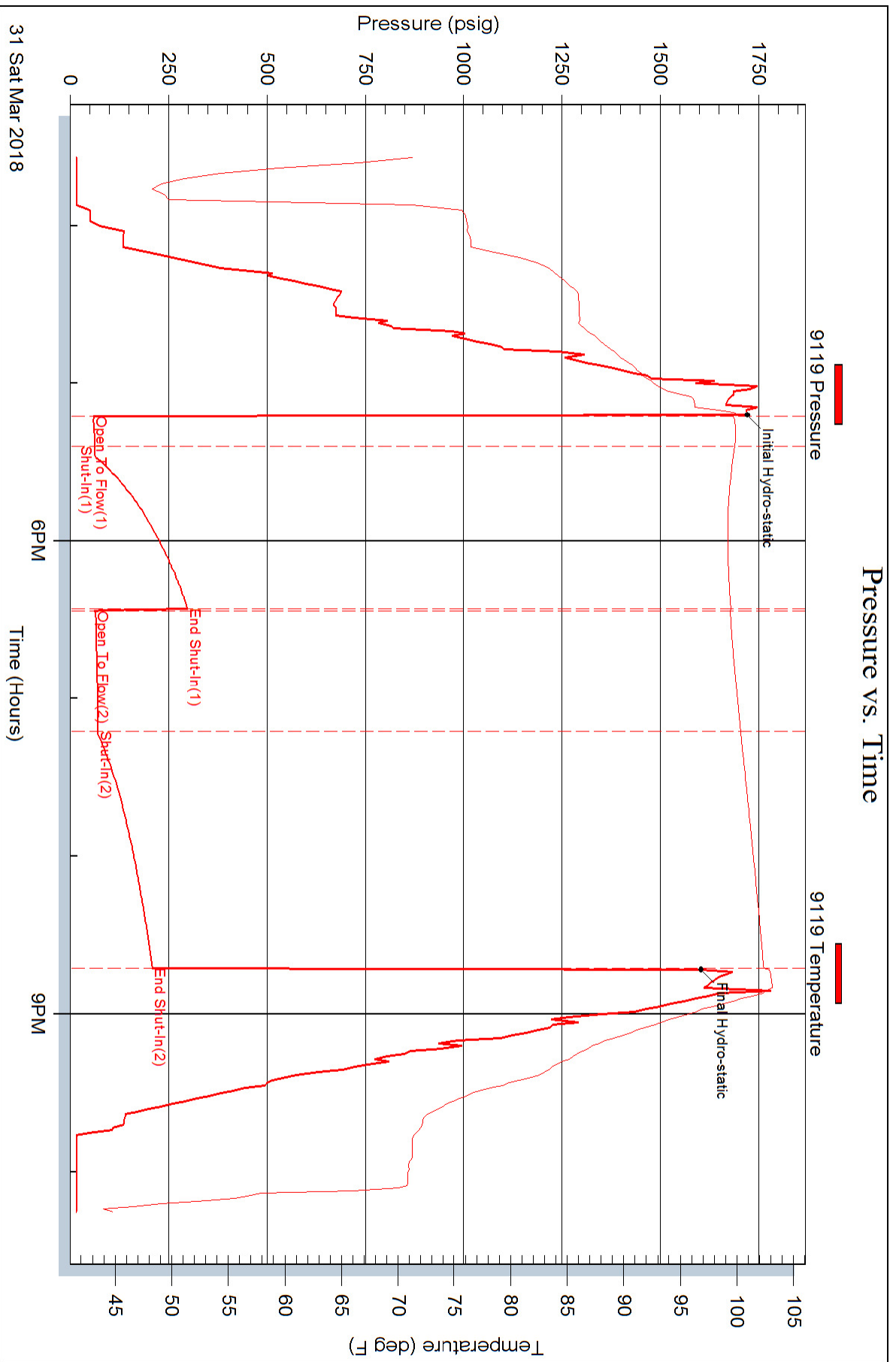
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67530

ATTN: Rene Husted

ILS Land "A" #1-1

1-19s-14w Barton

Start Date: 2018.04.01 @ 09:03:00

End Date: 2018.04.01 @ 13:45:00

Job Ticket #: 01117 DST #: 5

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

Printed: 2018.04.01 @ 14:06:10



DRILL STEM TEST REPORT

F.G. Holl Companyh LLC

1-19s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

ATTN: Rene Hustedad

Job Ticket: 01117

DST#: 5

Test Start: 2018.04.01 @ 09:03:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:44:00

Time Test Ended: 13:45:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: 3444.00 ft (KB) To 3490.00 ft (KB) (TVD)

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3490.00 ft (KB) (TVD)

1883.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 9139 Outside

Press@RunDepth: 1049.06 psig @ 3484.66 ft (KB)

Capacity: 5000.00 psig

Start Date: 2018.04.01 End Date: 2018.04.01

Last Calib.: 1899.12.30

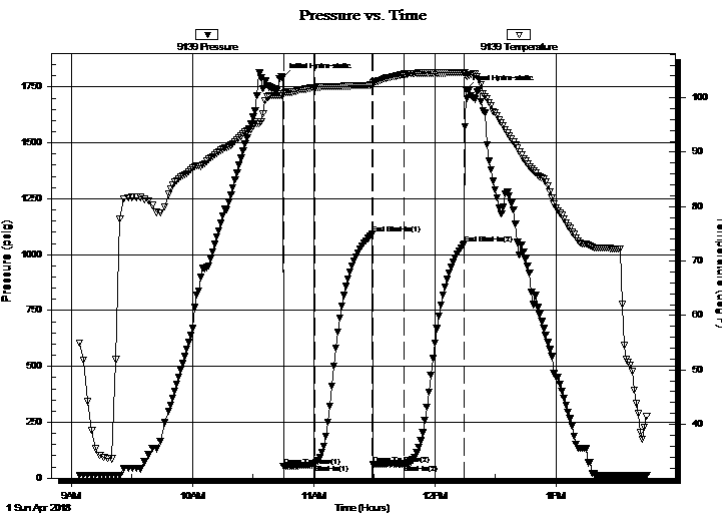
Start Time: 09:03:00 End Time: 13:45:00

Time On Btm: 2018.04.01 @ 10:44:30

Time Off Btm: 2018.04.01 @ 12:15:30

TEST COMMENT: 1st Opening 15 Minutes weak blow for 6 minutes and died
1st Shut-In 30 Minutes No blow back
2nd Opening 15 Minutes no blow
2ndn Shuy-In 30 Minutes no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1791.88	100.42	Initial Hydro-static
1	51.68	100.75	Open To Flow (1)
16	60.66	101.92	Shut-In(1)
45	1090.91	102.32	End Shut-In(1)
45	60.94	102.76	Open To Flow (2)
60	63.25	104.30	Shut-In(2)
90	1049.06	104.66	End Shut-In(2)
91	1736.64	104.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	SIX INCHES OF CLEAN OIL	0.00
5.00	OIL CUT MUD	0.02

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Companyh LLC

1-19s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

ATTN: Rene Hustedad

Job Ticket: 01117

DST#: 5

Test Start: 2018.04.01 @ 09:03:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:44:00

Time Test Ended: 13:45:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: 3444.00 ft (KB) To 3490.00 ft (KB) (TVD)

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3490.00 ft (KB) (TVD)

1883.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 9119 Inside

Press@RunDepth: 1039.73 psig @ 3484.66 ft (KB)

Capacity: 5000.00 psig

Start Date: 2018.04.01

End Date: 2018.04.01

Last Calib.: 1899.12.30

Start Time: 09:03:00

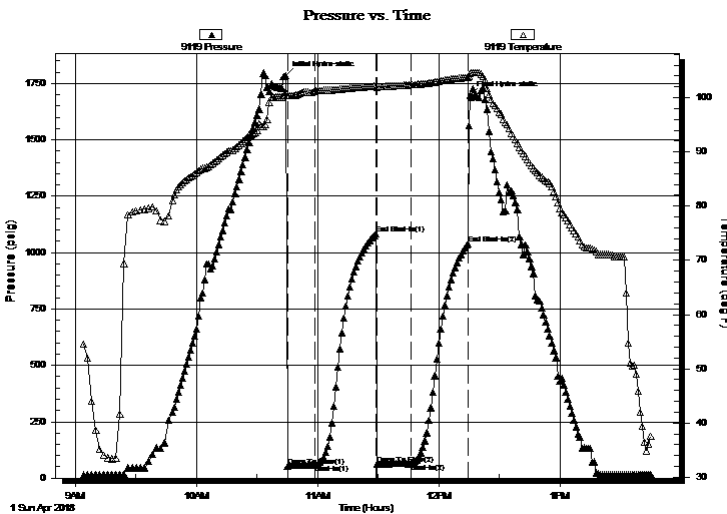
End Time: 13:45:00

Time On Btm: 2018.04.01 @ 10:44:00

Time Off Btm: 2018.04.01 @ 12:15:30

TEST COMMENT: 1st Opening 15 Minutes weak blow for 6 minutes and died
1st Shut-In 30 Minutes No blow back
2nd Opening 15 Minutes no blow
2ndn Shuy-In 30 Minutes no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1785.73	101.04	Initial Hydro-static
1	53.69	100.37	Open To Flow (1)
15	59.58	101.22	Shut-In(1)
45	1081.55	102.15	End Shut-In(1)
46	63.07	101.87	Open To Flow (2)
62	64.23	102.41	Shut-In(2)
91	1039.73	103.77	End Shut-In(2)
92	1696.85	104.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	SIX INCHES OF CLEAN OIL	0.00
5.00	OIL CUT MUD	0.02

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Companyh LLC

1-19s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

Job Ticket: 01117

DST#: 5

ATTN: Rene Husted

Test Start: 2018.04.01 @ 09:03:00

Tool Information

Drill Pipe:	Length: 3264.00 ft	Diameter: 3.80 inches	Volume: 45.79 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 46.68 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	3444.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	45.66 ft				
Tool Length:	75.66 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			3419.00	
Hydraulic tool	5.00			3424.00	
Jars	5.00			3429.00	
Safety Joint	5.00			3434.00	
Packer	5.00			3439.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	3444.00	
Anchor	3.00			3447.00	
Change Over Sub	0.75			3447.75	
Drill Pipe	31.16			3478.91	
Change Over Sub	0.75		Inside	3479.66	
Anchor	5.00			3484.66	
Recorder	0.00	9119	Inside	3484.66	
Recorder	0.00	9139	Outside	3484.66	
Bullnose	5.00			3489.66	45.66 Bottom Packers & Anchor

Total Tool Length: 75.66



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Companyh LLC

1-19s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

Job Ticket: 01117

DST#: 5

ATTN: Rene Husted

Test Start: 2018.04.01 @ 09:03:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 66.00 sec/qt
Water Loss: 7.99 in³
Resistivity: ohm.m
Salinity: 6000.00 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	SIX INCHES OF CLEAN OIL	0.000
5.00	OIL CUT MUD	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

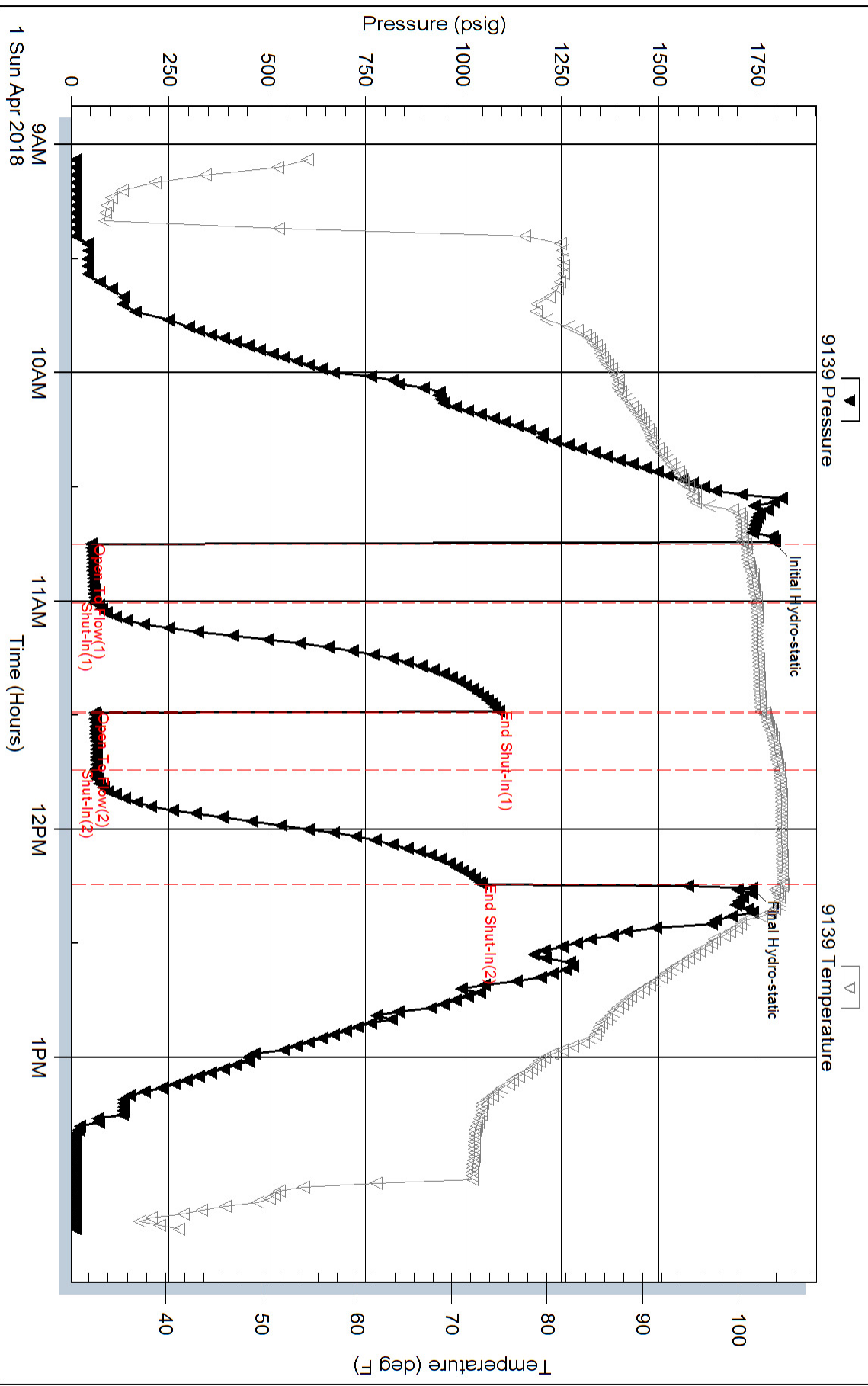
Serial #:

Laboratory Name:

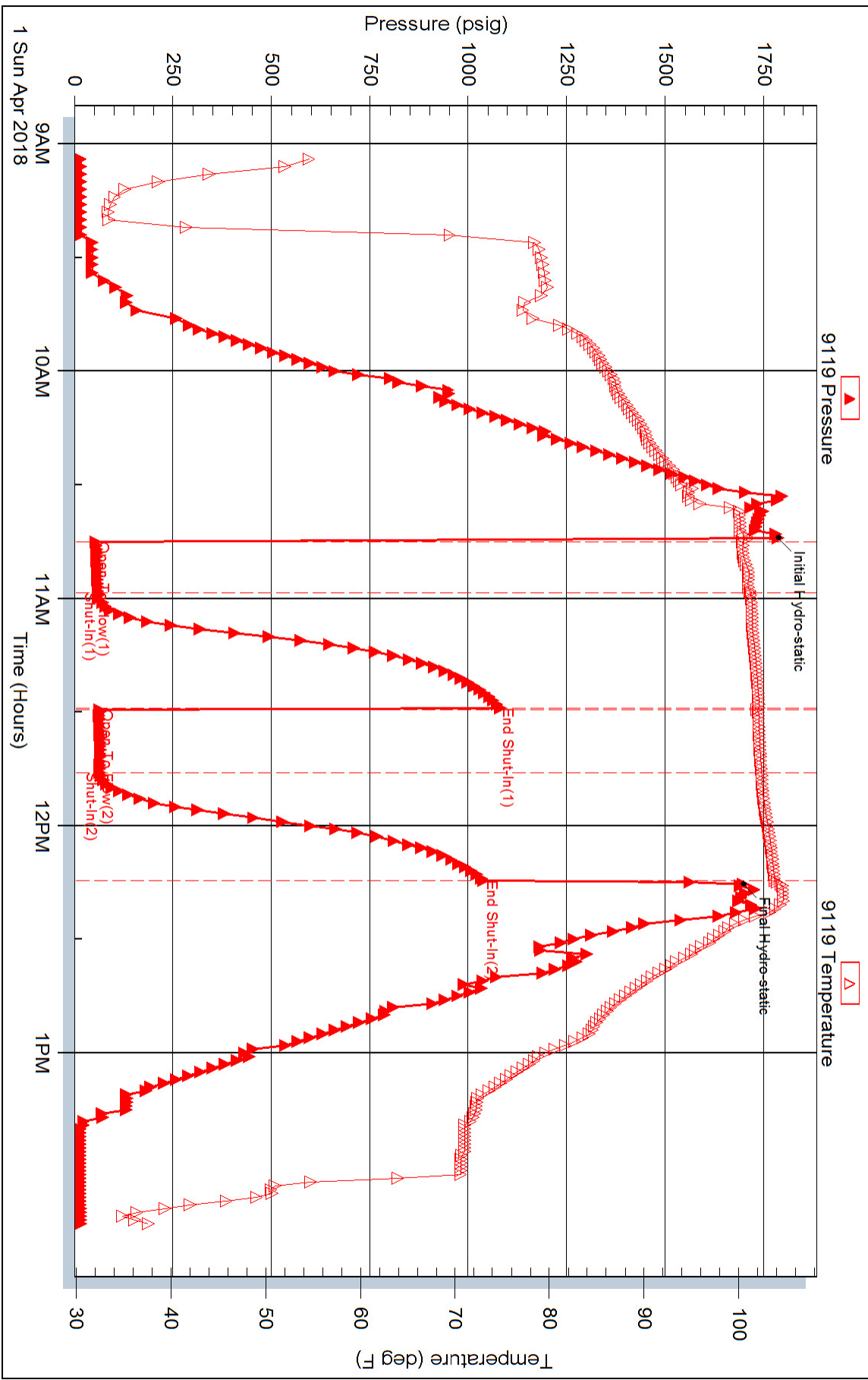
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67530

ATTN: Rene Husted

ILS Land "A" #1-1

1-19s-14w Barton

Start Date: 2018.04.02 @ 08:03:00

End Date: 2018.04.02 @ 04:19:00

Job Ticket #: 01118 DST #: 6

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

Printed: 2018.04.02 @ 05:14:10



DRILL STEM TEST REPORT

F.G. Holl Companyh LLC

1-19s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

ATTN: Rene Husted

Job Ticket: 01118

DST#: 6

Test Start: 2018.04.02 @ 08:03:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:26:00

Time Test Ended: 04:19:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: 3489.00 ft (KB) To 3496.00 ft (KB) (TVD)

Reference Elevations: 1895.00 ft (KB)

Total Depth: ft (KB) (TVD)

1883.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 12.00 ft

Serial #: 9119

Inside

Press@RunDepth: 364.92 psig @ 3492.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2018.04.01

End Date:

2018.04.02

Last Calib.: 1899.12.30

Start Time: 20:04:00

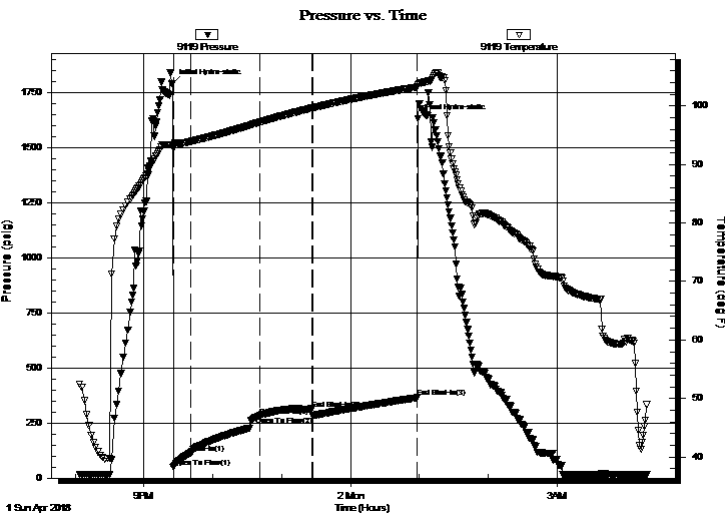
End Time:

04:18:30

Time On Btm: 2018.04.01 @ 21:25:00

Time Off Btm: 2018.04.02 @ 00:58:59

TEST COMMENT:



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1788.85	93.22	Initial Hydro-static
1	50.53	92.63	Open To Flow (1)
16	114.90	93.91	Shut-In(1)
76	282.35	97.21	End Shut-In(1)
122	315.23	99.63	End Shut-In(2)
122	281.37	99.64	Open To Flow (2)
214	364.92	103.21	End Shut-In(3)
214	1629.89	103.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	360 gas in the pipe	0.00
900.00	Clean gassy oil 60%Oil 40%Ga	10.98
0.00	gravoyu 43 corrected	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Companyh LLC

1-19s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

ATTN: Rene Husted

Job Ticket: 01118

DST#: 6

Test Start: 2018.04.02 @ 08:03:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:26:00

Time Test Ended: 04:19:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: 3489.00 ft (KB) To 3496.00 ft (KB) (TVD)

Reference Elevations: 1895.00 ft (KB)

Total Depth: ft (KB) (TVD)

1883.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 12.00 ft

Serial #: 9139 Outside

Press@RunDepth: 372.57 psig @ 3492.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2018.04.01

End Date:

2018.04.02

Last Calib.:

2018.04.02

Start Time: 20:04:00

End Time:

04:18:30

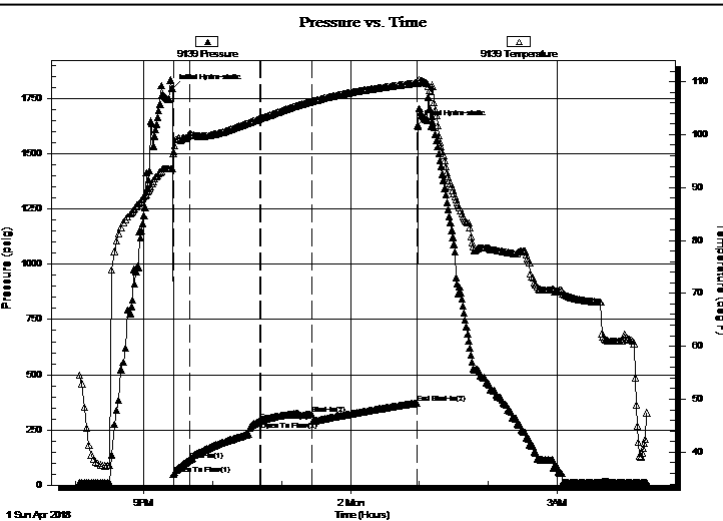
Time On Btm:

2018.04.01 @ 21:25:00

Time Off Btm:

2018.04.02 @ 00:58:30

TEST COMMENT:



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1796.61	93.53	Initial Hydro-static
1	48.73	96.42	Open To Flow (1)
15	112.68	100.05	Shut-In(1)
76	288.69	102.98	End Shut-In(1)
77	290.97	103.02	Open To Flow (2)
122	321.94	106.28	Shut-In(2)
213	372.57	109.75	End Shut-In(2)
214	1630.62	109.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	360 gas in the pipe	0.00
900.00	Clean gassy oil 60%Oil 40%Ga	10.98
0.00	gravoyu 43 corrected	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Companyh LLC

1-19s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

Job Ticket: 01118

DST#: 6

ATTN: Rene Husted

Test Start: 2018.04.02 @ 08:03:00

Tool Information

Drill Pipe:	Length: 3296.00 ft	Diameter: 3.80 inches	Volume: 46.23 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	72000.00 lb
			<u>Total Volume: 47.12 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	3489.00 ft			Final	63000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	8.00 ft				
Tool Length:	38.00 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			3464.00	
Hydraulic tool	5.00			3469.00	
Jars	5.00			3474.00	
Safety Joint	5.00			3479.00	
Packer	5.00			3484.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	3489.00	
Anchor	3.00			3492.00	
Recorder	0.00	9119	Inside	3492.00	
Recorder	0.00	9139	Outside	3492.00	
Bullnose	5.00			3497.00	8.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Companyh LLC

1-19s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67530

ILS Land "A" #1-1

Job Ticket: 01118

DST#: 6

ATTN: Rene Husted

Test Start: 2018.04.02 @ 08:03:00

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: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	360 gas in the pipe	0.000
900.00	Clean gassy oil 60%Oil 40%Ga	10.985
0.00	gravoyu 43 corrected	0.000

Total Length: 900.00 ft Total Volume: 10.985 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

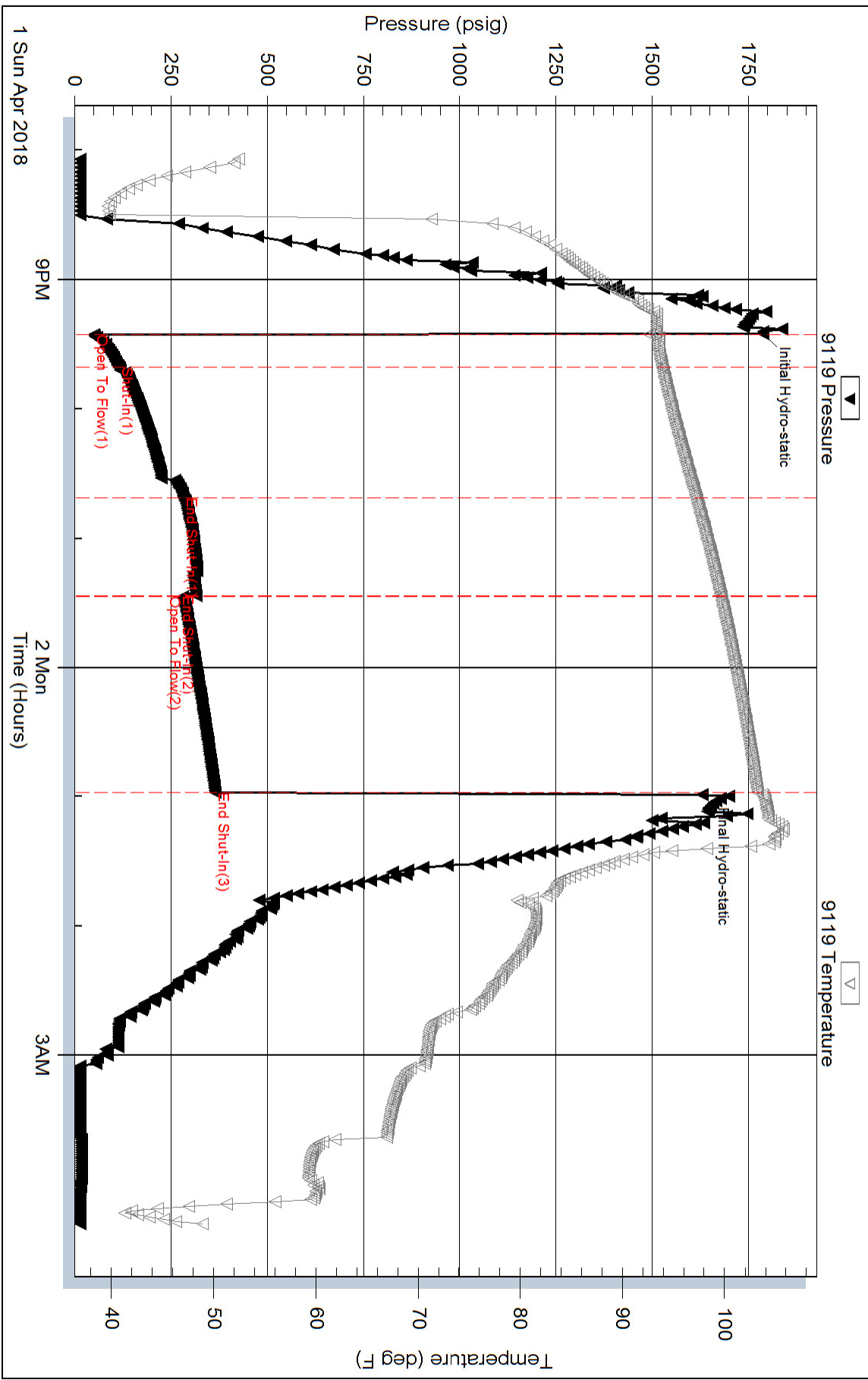
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

