

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](mailto: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)</i> <i>(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	Younger Energy Company
Well Name	GEORGIANN BAUER 1-27
Doc ID	1357706

All Electric Logs Run

Dual Induction
Compensated Density/Neutron
Sonic
Micro
Computer Processed Interpretation
Mudlog
Cement Bond
LAS

Form	ACO1 - Well Completion
Operator	Younger Energy Company
Well Name	GEORGIANN BAUER 1-27
Doc ID	1357706

Tops

Name	Top	Datum
Queen Hill	3250	-1288
Heebner	3354	-1392
Douglas	3389	-1427
Brown Lime	3462	-1500
Lansing	3471	-1509
Base Kansas City	3704	-1742
Conglomerate	3780	-1818
Viola	3802	-1840
Simpson Shale	3818	-1856
Arbuckle	3872	-1910

Form	ACO1 - Well Completion
Operator	Younger Energy Company
Well Name	GEORGIANN BAUER 1-27
Doc ID	1357706

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3880-3883		



**OPERATOR**

Company: Younger Energy Company  
 Address: 9415 E. Harry St.  
 Suite 403, Bldg 400  
 Wichita, KS 67207

Contact Geologist:  
 Contact Phone Nbr: 316-681-2542  
 Well Name: Georgiann Bauer #1-27  
 Location: Sec. 27 - T21S - R15W  
 API: 15-145-21823-0000  
 Pool:  
 State: Kansas

Field: Hurray Northwest  
 Country: USA



Scale 1:240 Imperial

Well Name: Georgiann Bauer #1-27  
 Surface Location: Sec. 27 - T21S - R15W  
 Bottom Location:  
 API: 15-145-21823-0000  
 License Number: 30705  
 Spud Date: 4/19/2017 Time: 5:45 PM  
 Region: Pawnee County  
 Drilling Completed: 4/25/2017 Time: 11:30 AM  
 Surface Coordinates: 1001' FNL & 2500' FWL  
 Bottom Hole Coordinates:  
 Ground Elevation: 1954.00ft  
 K.B. Elevation: 1962.00ft  
 Logged Interval: 3200.00ft To: 3970.00ft  
 Total Depth: 3970.00ft  
 Formation: Arbuckle  
 Drilling Fluid Type: Chemical/Fresh Water Gel

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: -98.958973  
 Latitude: 38.200962  
 N/S Co-ord: 1001' FNL  
 E/W Co-ord: 2500' FWL

**LOGGED BY**

***Keith Reavis***  
*Consulting Geologist*

Company: Keith Reavis, Inc.  
 Address: 3420 22nd Street  
 Great Bend, KS 67530

Phone Nbr: 620-617-4091  
 Logged By: KLG #136

Name: Keith Reavis

**CONTRACTOR**

Contractor: Duke Drilling Company  
 Rig #: 8  
 Rig Type: mud rotary  
 Spud Date: 4/19/2017 Time: 5:45 PM  
 TD Date: 4/25/2017 Time: 11:30 AM  
 Rig Release: Time:

**ELEVATIONS**







# DRILL STEM TEST REPORT

YOOUNGER ENERGY COMPANY

27-21S-15W PAWNEE

9415 E HARRY SUITE 4035  
WICHITAA, KANSAS 67207-

GEORGIANN BAUER 1-27

Job Ticket: 01165 DST#:1

ATTN: KEITH REAVIS

Test Start: 2017.04.24 @ 08:30:00

## GENERAL INFORMATION:

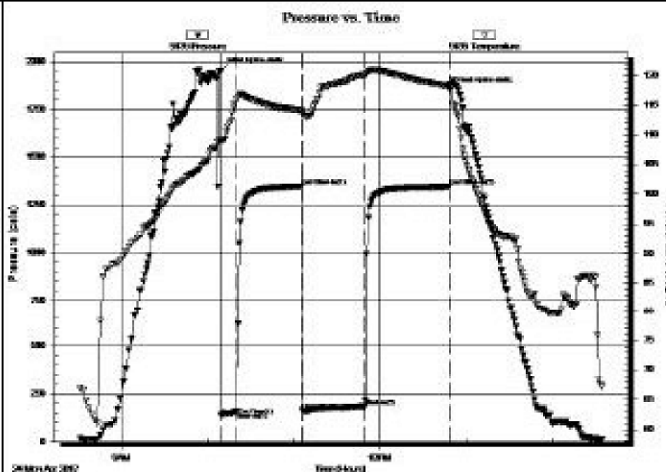
Formation: **ARBUCKLE**  
 Deviated: No Whipstock ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 10:00:00  
 Tester: GENE BUDIG  
 Time Test Ended: 02:36:00  
 Unit No: 1  
 Interval: 3700.00 ft (KB) To 3773.00 ft (KB) (TVD)  
 Reference Elevations: 1962.00 ft (KB)  
 Total Depth: 3773.00 ft (KB) (TVD)  
 1954.00 ft (CF)  
 Hole Diameter: 7.88 inches - hole Condition: Fair  
 KB to GR/CF: 8.00 ft

## Serial #: 9139

Inside

Press@RunDepth: 1346.29 psia @ 3868.60 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2017.04.24 End Date: 2017.04.24 Last Calib.: 2017.04.24  
 Start Time: 08:31:00 End Time: 14:35:30 Time On Btm: 2017.04.24 @ 10:09:00  
 Time Off Btm: 2017.04.24 @ 12:49:00

TEST COMMENT: 1ST OPENING 10 MINUTES WEAK SURFACE BLOW THROUGH OUT  
 1ST SHUT-IN 45 MINUTES NO BLOW BACK  
 2ND OPENING 45 MINUTES WEAK SURFACE BLOW THROUGH OUT  
 2ND SHUT-IN 60 MINUTES NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1952.25	109.25	Initial Hydro-static
1	136.32	108.84	Open To Flow(1)
11	155.48	115.83	Shut-In(1)
57	1348.39	114.09	End Shut-In(1)
57	163.60	113.62	Open To Flow(2)
101	184.94	120.09	Shut-In(2)
160	1346.29	118.25	End Shut-In(2)
160	1852.05	118.47	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	OIL AND GAS CUT MUD	1.26
0.00	20 GAS 30 OIL 50 MUD	0.00
60.00	OIL AND GAS CUT MUD	0.84
0.00	30 GAS 30 OIL 40 MUD	0.00

## Gas Rates

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

## Drill Stem Test #2



# DRILL STEM TEST REPORT

YOOUNGER ENERGY COMPANY

27-21S-15W PAWNEE

9415 E HARRY SUITE 4035  
WICHITAA, KANSAS 67207-

GEORGIANN BAUER 1-27

Job Ticket: 01166 DST#:2

ATTN: KEITH REAVIS

Test Start: 2017.04.24 @ 22:17:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock ft (KB)  
 Time Tool Opened: 23:39:00  
 Time Test Ended: 04:09:00

Test Type: Conventional Bottom Hole (hita)  
 Tester: GENE BUDG  
 Unit No: 1

Interval: 3873.00 ft (KB) To 3884.00 ft (KB) (TVD)  
 Total Depth: 3884.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches -hole Condition: Fair

Reference Elevations: 1962.00 ft (KB)  
 1954.00 ft (CF)  
 KB to GR/CF: 8.00 ft

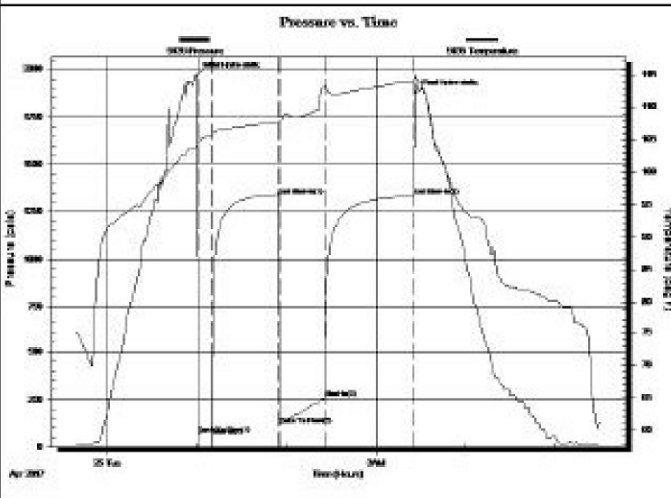
Serial #: 9139

Inside

Press@RunDepth: 1333.90 psia @ 3879.00 ft (KB)  
 Start Date: 2017.04.24 End Date: 2017.04.25  
 Start Time: 23:39:00 End Time: 05:30:30

Capacity: 5000.00 psia  
 Last Calib.: 2017.04.25  
 Time On Btm: 2017.04.25 @ 01:00:00  
 Time Off Btm: 2017.04.25 @ 03:28:30

TEST COMMENT: 1ST OPENING 10 MINUTES FAIR BLOW BOTTOM OF THE BUCKET IN 3 MINUTES  
 1ST SHUT-IN 45 MINUTES GOOD BLOW BACK  
 2ND OPENING 30 MINUTES FAIR BLOW BULT TO THE BOTTOM OF THE BUCKET IN 4 MINUTES  
 2ND SHUT-IN 60 MINUTES GOOD BLOW BACK



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1969.56	103.92	Initial Hydro-static
1	68.52	104.51	Open To Flow (1)
10	102.92	105.72	Shut-In (1)
55	1333.83	107.80	End Shut-In (1)
56	117.91	107.51	Open To Flow (2)
86	258.68	113.43	Shut-In (2)
146	1333.90	114.02	End Shut-In (2)
147	1876.65	115.00	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	720 FEET OF GAS IN THE PIPE	0.00
560.00	CLEAN GASSY OIL	7.86
0.00	GRAVITY 4.1 CORRECTED	0.00
60.00	OIL AND GAS CUT MUD	0.84
0.00	5 GAS 25 OIL 70 MUD	0.00

Gas Rates			
	Choke (inches)	Pressure (psia)	Gas Rate (M d/d)

**ROCK TYPES**

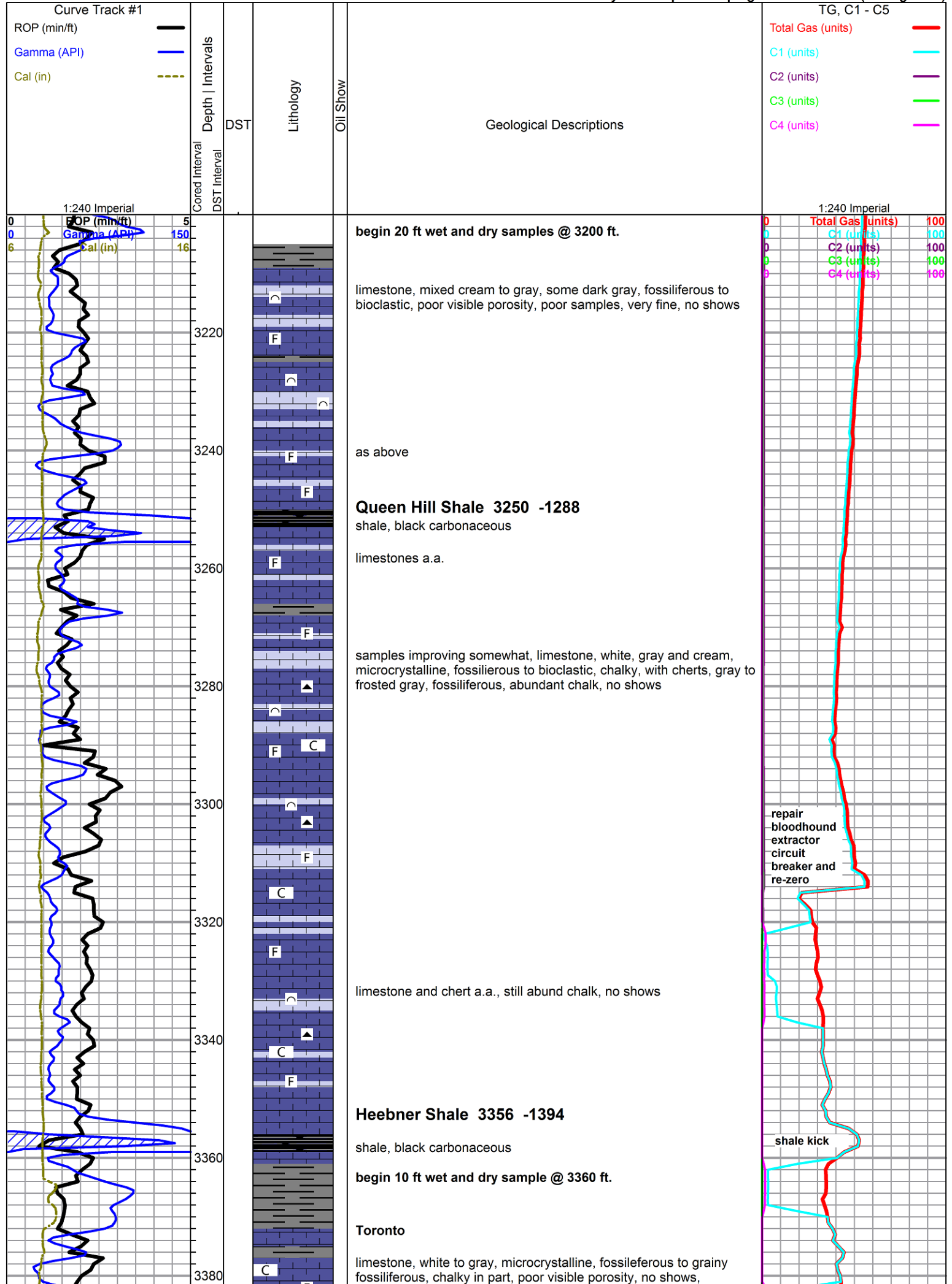
Cht vari	Lmst fw<7	shale, gry	Shcol
Chtcongl	Lmst fw>7	Carbon Sh	
Dolprim	shale, grn	shale, red	

**ACCESSORIES**

<b>MINERAL</b>	<b>FOSSIL</b>	<b>STRINGER</b>	<b>TEXTURE</b>
▲ Chert, dark	∧ Bioclastic or Fragments	••• Sandstone	C Chalky
• Sandy	F Fossils < 20%		CX Cryptocrystalline
•• Silty	∅ Oolite		L Lithogr
△ Chert White	∅ Pellets		MX Microxin
Mc Mica	∅ Oomoldic		

**OTHER SYMBOLS**

<b>Oil Show</b>	<b>DST</b>
● Good Show	■ DST Int
● Fair Show	■ DST alt
● Poor Show	■ Core
○ Spotted or Trace	tail pipe
○ Questionable Stn	
D Dead Oil Stn	
■ Fluorescence	
* Gas	

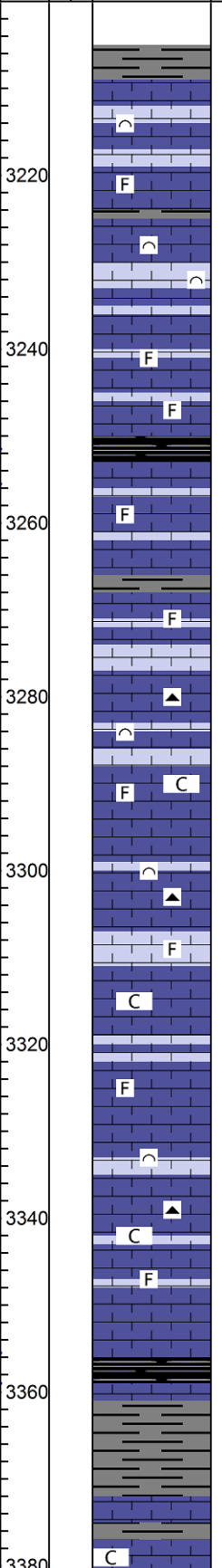
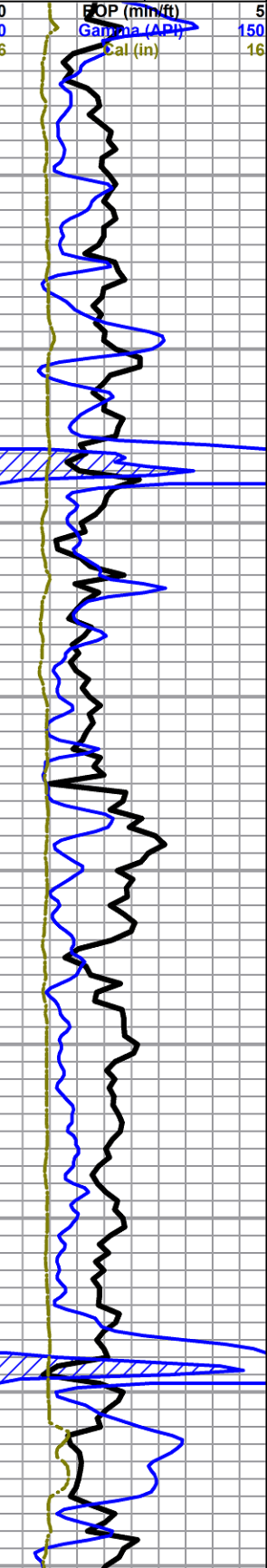


Curve Track #1  
 ROP (min/ft) ———  
 Gamma (API) ———  
 Cal (in) - - - - -

Depth | Intervals  
 DST  
 Lithology  
 Oil Show

Geological Descriptions

TG, C1 - C5  
 Total Gas (units) ———  
 C1 (units) ———  
 C2 (units) ———  
 C3 (units) ———  
 C4 (units) ———



begin 20 ft wet and dry samples @ 3200 ft.

limestone, mixed cream to gray, some dark gray, fossiliferous to bioclastic, poor visible porosity, poor samples, very fine, no shows

as above

**Queen Hill Shale 3250 -1288**  
 shale, black carbonaceous

limestones a.a.

samples improving somewhat, limestone, white, gray and cream, microcrystalline, fossiliferous to bioclastic, chalky, with cherts, gray to frosted gray, fossiliferous, abundant chalk, no shows

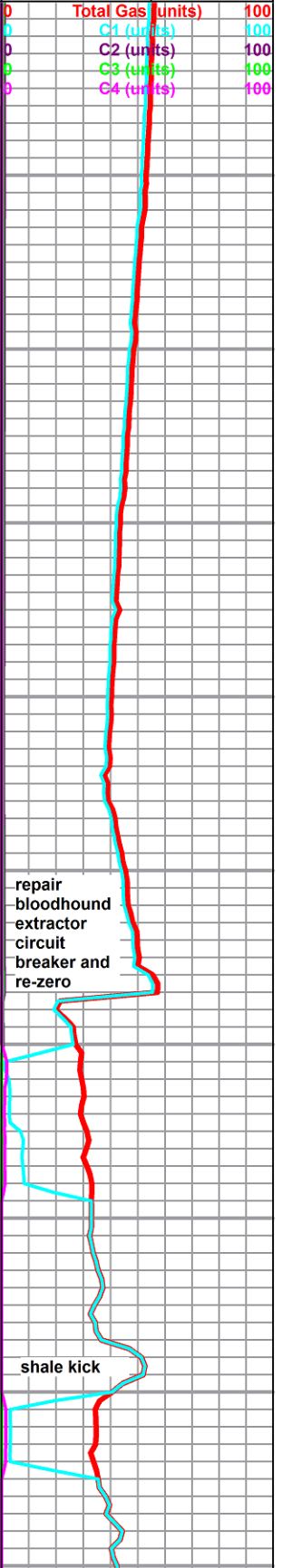
limestone and chert a.a., still abund chalk, no shows

**Heebner Shale 3356 -1394**  
 shale, black carbonaceous

begin 10 ft wet and dry sample @ 3360 ft.

Toronto

limestone, white to gray, microcrystalline, fossiliferous to grainy fossiliferous, chalky in part, poor visible porosity, no shows,



moderate chalk in samples

### Douglas 3388 -1426

shale, gray, soft to fissile, micaceous, some silty, heavy gray wash in samples

a.a.

### Brown Lime 3461 -1499

limestone, dark gray to tan, crypto-microcrystalline, fossiliferous, dense, no shows

### Lansing 3471 -1509

limestone, white to light gray, cryptocrystalline, lithographic with some slightly fossiliferous, chalky, poor visible porosity, no shows

limestone, white to cream, mostly cryptocrystalline, fossiliferous and grainy fossiliferous to lithographic, chalky to dense, no shows

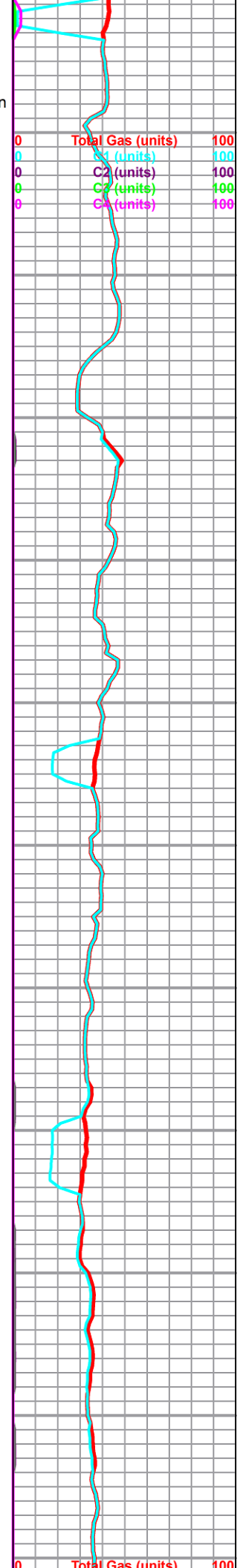
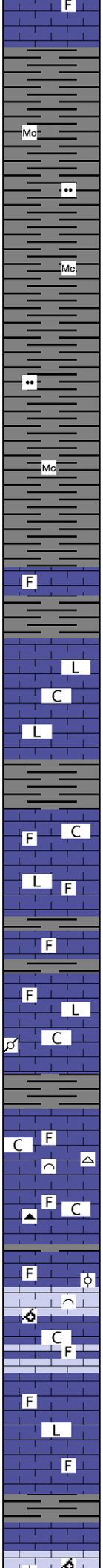
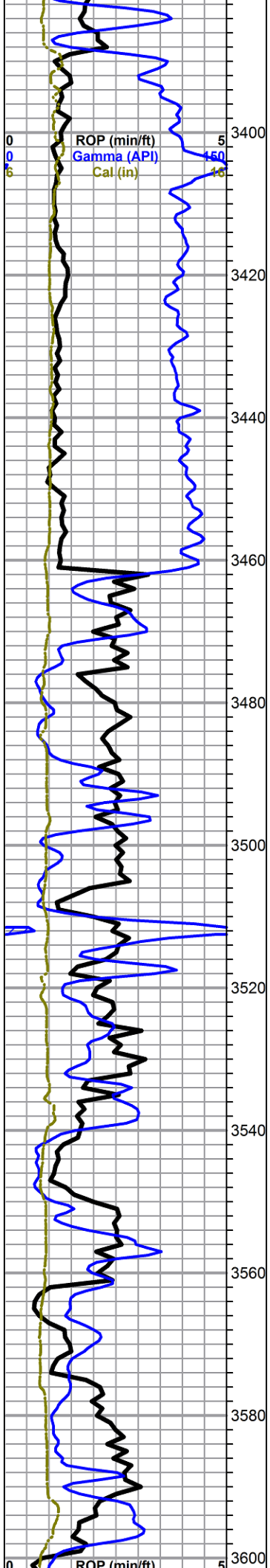
limestone, gray to cream, microcrystalline, fossiliferous to lithographic, with gray mottled pelletal, cherty to chalky, poor visible porosity, no shows

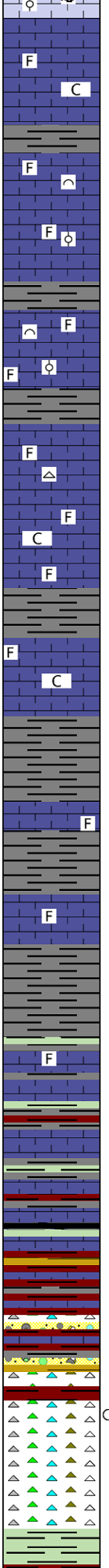
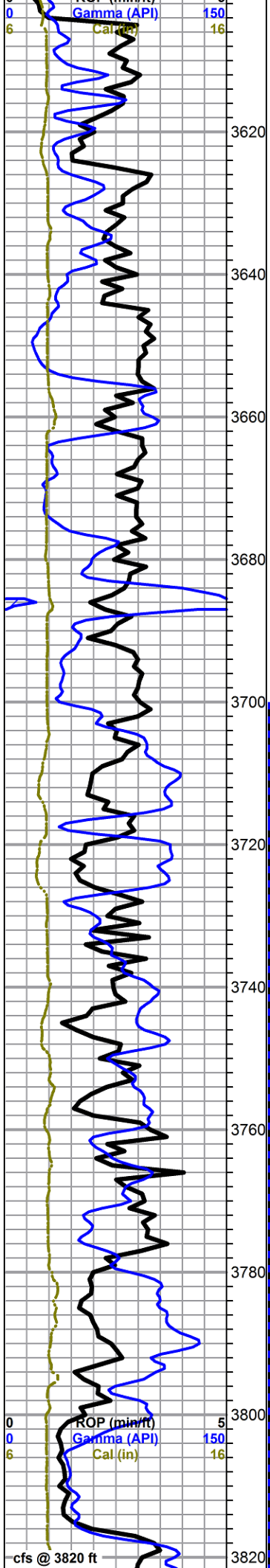
limestone, light gray to cream and white, microcrystalline, fossiliferous, some grainy bioclastic, some sub-lithographic, poor overall porosity, abundant chalk, some white and gray cherts, no shows

limestone, light gray, microcrystalline, fossiliferous, some bioclastic and sub-oolitic, some flattened oolitic, abundant chalk, poor overall visible porosity, no shows

limestone, variable gray, fossiliferous to lithographic, dense and cherty, no shows

limestone, gray, oolitic to recrystallized oolitic, sub-oolitic, some scattered visible fair porosity, most molds re-filled, barren





limestone, cream to light gray, micro-cryptocrystalline, fossiliferous, poor porosity, dense, some chalk, no shows

limestone, mixed cream to gray, fossiliferous, some chalk, scattered chalky bioclastic, some oolitic and flattened oolitic

same as above

**Stark Shale 3656 -1694**

limestone, cream to white and gray, microcrystalline, fossiliferous, chalky in part, with limestone, olive/brown, fossiliferous, dense, cherty, no shows, abundant chalk in samples, few scattered cherts

limestones, mixed light gray to cream, fossiliferous to sub-lithographic, dense to chalk, no shows

**Base KC 3702 -1740**

mostly limestones in samples, chalky white to light gray fossiliferous, influx brown dense fossiliferous to brown chalky grainy fossiliferous, noted some lavender shales, no shows

beginning 3780 sample, marked increase in mixed shales, limestones a.a. with influx dense lavender limestones

**Conglomerate 3777 -1815**

3600 sample - increasing red shales, red wash in samples, limestones mixed and very fine, 3620 sample - rose to pink cherts, very fine, no shows

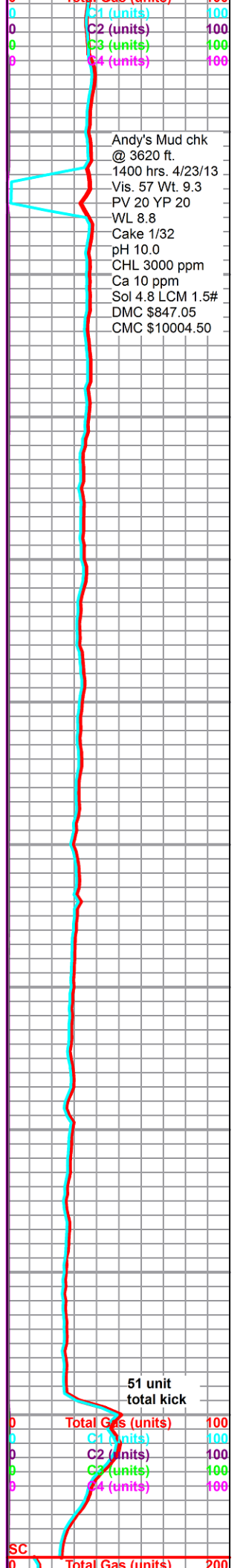
**Viola 3798 -1836**

chert, white to tan and cream, with rose, fresh, sharp, trace dead black staining, no show free oil, pungent sour odor

@ 3820 ft run 20 stand short/wiper trip

**Simpson Shale 3816 -1854**

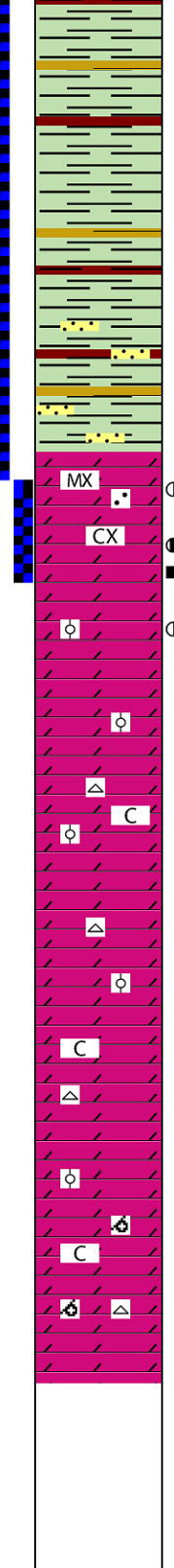
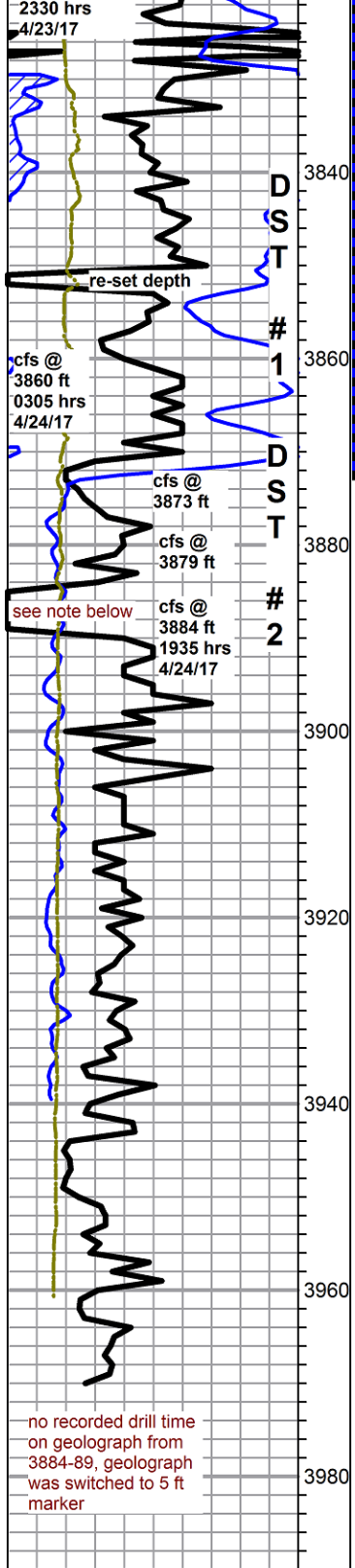
variable green shales, some olive yellow and maroon, carrying



Andy's Mud chk  
@ 3620 ft.  
1400 hrs. 4/23/13  
Vis. 57 Wt. 9.3  
PV 20 YP 20  
WL 8.8  
Cake 1/32  
pH 10.0  
CHL 3000 ppm  
Ca 10 ppm  
Sol 4.8 LCM 1.5#  
DMC \$847.05  
CMC \$10004.50

51 unit total kick  
Total Gas (units) 100  
C1 (units) 100  
C2 (units) 100  
C3 (units) 100  
C4 (units) 100

SC  
Total Gas (units) 200



poor samples

shales a.a. with some very fine loose sand grains in bottom of tray, no clusters, still carrying abundant cherts from above

some green shale with sandstone inclusions, very gilsonitic (noted from samples after resumption of drilling from DST #1)

**Arbuckle 3870 -1908**

no Simpson Sand present in wet or dry samples from 3870 -3873, some scattered loose very fine grain quartz sand grains in bottom of tray only, no odor - dry samples, found 3 pieces stained very fine to microcrystalline dolomite, 1 vuggy

cfs samples 3873 - 3879 dolomite, light gray to white, mostly microcrystalline, sub-rhombic to cryptocrystalline, some sandy, fair pin-point intercrystalline porosity, golden brown saturated stain to spotty black stain to barren, slight show oil, good odor, good fluorescence, excellent cut

cfs samples 3879 - 3884 dolomite a.a. with saturated golden brown sucrosic, light gray rhombic with wormy solution vugs, fair stain and show of oil, overall increase in staining and show from above, good fluorescence, excellent cut

3900 sample, trip trash - 3904 cfs sample, dolomite, light gray, with white and tan, abundant oolitic and recrystallized oolitic, some very fine oolitic, solution leached with good porosity, mixed fine to cryptocrystalline, scattered intercrystalline porosity, light brown staining to barren, some black tarry staining, slight show oil, some fair show on break, weak odor, good to fair fluorescence, poor to fair cuts

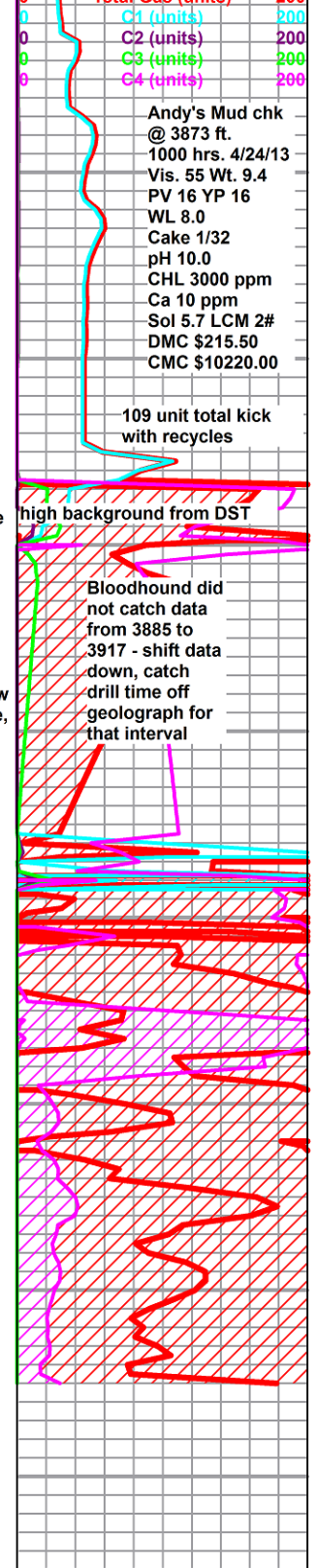
3905-3942 dolomite, white to light gray and tan, mixed crystalline and oolitic, some porosity but abundant caliche infill, spotty stain, trace oil on break, fleeting odor, pale green fluorescence, influx white boney, frosted gray and some oolitic cherts, abundant caliche

3942-TD, dolomite, light gray to white and tan, micro-cryptocrystalline, some fair rhombic to dense lithographic, some recrystallized oolitic and some oomoldic with fair porosity, chert and caliche as above, no shows

Rotary TD 3970 ft @ 1130 hrs 4/25/17

ELI WireLine log TD 3974 ft

complete logging operations @ 1835 hrs 4/25/17





## DRILL STEM TEST REPORT

Prepared For: **YOIUNGER EMERGY COMPANY**

9415 E HARRY SUITE 4035  
WICHITAA, KANSAS 67207-

ATTN: KEITH REAVIS

**GEORGIANN BAUER 1-27**

**27-21S-15W PAWNEE**

Start Date: 2017.04.24 @ 08:30:00

End Date: 2017.04.24 @ 02:36:00

Job Ticket #: 01165                      DST #: 1

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

Printed: 2017.04.25 @ 00:55:19



# DRILL STEM TEST REPORT

YOIUNGER EMERGY COMPANY

27-21S-15W PAWNEE

9415 E HARRY SUITE 4035  
WICHITAA, KANSAS 67207-

GEORGIANN BAUER 1-27

ATTN: KEITH REAVIS

Job Ticket: 01165

DST#: 1

Test Start: 2017.04.24 @ 08:30:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:00:00

Time Test Ended: 02:36:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: **3700.00 ft (KB) To 3773.00 ft (KB) (TVD)**

Reference Elevations: 1962.00 ft (KB)

Total Depth: 3773.00 ft (KB) (TVD)

1954.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 9139

Inside

Press@RunDepth: 1346.29 psia @ 3868.60 ft (KB)

Capacity: 5000.00 psia

Start Date: 2017.04.24

End Date: 2017.04.24

Last Calib.: 2017.04.24

Start Time: 08:31:00

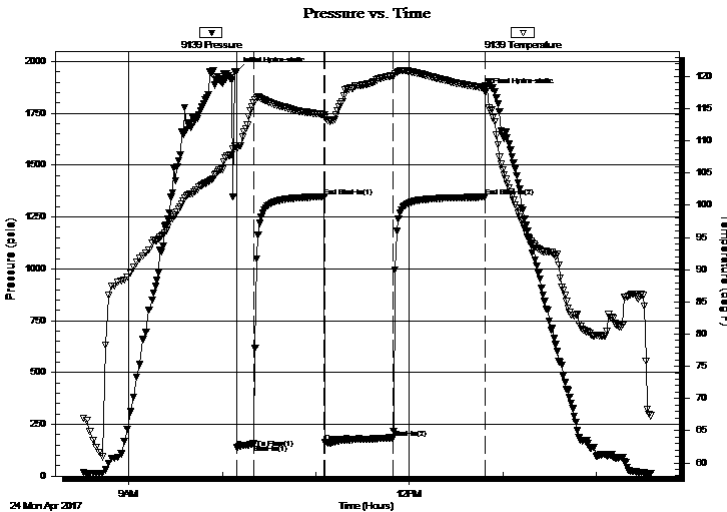
End Time: 14:35:30

Time On Btm: 2017.04.24 @ 10:09:00

Time Off Btm: 2017.04.24 @ 12:49:00

TEST COMMENT: 1ST OPENING 10 MINUTES WEAK SURFACE BLOW THROUGH OUT  
1ST SHUT-IN 45 MINUTES NO BLOW BACK  
2ND OPENING 45 MINUTES WEAK SURFACE BLOW THROUGH OUT  
2ND SHUT-IN 60 MINUTES NO BLOW BACK

## PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1952.25	109.25	Initial Hydro-static
1	136.32	108.84	Open To Flow (1)
11	155.48	115.83	Shut-In(1)
57	1348.39	114.09	End Shut-In(1)
57	163.60	113.62	Open To Flow (2)
101	184.94	120.09	Shut-In(2)
160	1346.29	118.25	End Shut-In(2)
160	1852.05	118.47	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	OIL AND GAS CUT MUD	1.26
0.00	20 GAS 30 OIL 50 MUD	0.00
60.00	OIL AND GAS CUT MUD	0.84
0.00	30 GAS 30 OIL 40 MUD	0.00

## Gas Rates

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





# DRILL STEM TEST REPORT

YOIUNGER EMERGY COMPANY

27-21S-15W PAWNEE

9415 E HARRY SUITE 4035  
WICHITAA, KANSAS 67207-

GEORGIANN BAUER 1-27

ATTN: KEITH REAVIS

Job Ticket: 01165

DST#: 1

Test Start: 2017.04.24 @ 08:30:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:00:00

Time Test Ended: 02:36:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: **3700.00 ft (KB) To 3773.00 ft (KB) (TVD)**

Reference Elevations: 1962.00 ft (KB)

Total Depth: 3773.00 ft (KB) (TVD)

1954.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 91716 Outside**

Press@RunDepth: 1340.41 psia @ 3868.60 ft (KB)

Capacity: 5000.00 psia

Start Date: 2017.04.24

End Date: 2017.04.24

Last Calib.: 2017.04.24

Start Time: 08:30:30

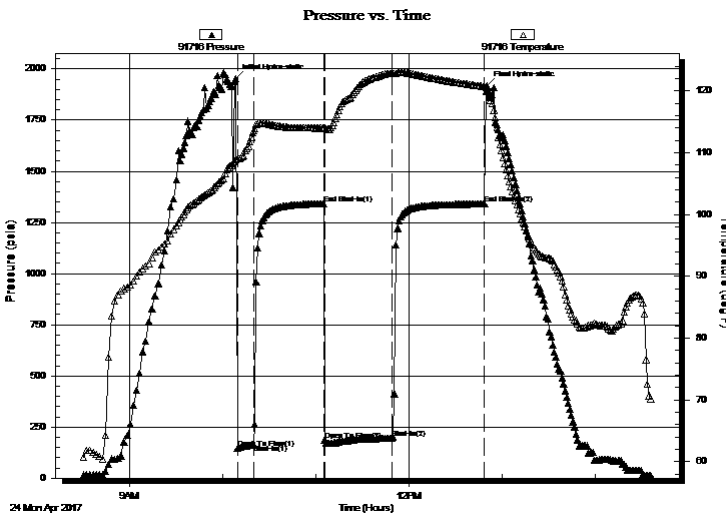
End Time: 14:35:30

Time On Btm: 2017.04.24 @ 10:08:30

Time Off Btm: 2017.04.24 @ 12:50:00

**TEST COMMENT:** 1ST OPENING 10 MINUTES WEAK SURFACE BLOW THROUGH OUT  
1ST SHUT-IN 45 MINUTES NO BLOW BACK  
2ND OPENING 45 MINUTES WEAK SURFACE BLOW THROUGH OUT  
2ND SHUT-IN 60 MINUTES NO BLOW BACK

## PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1951.70	108.88	Initial Hydro-static
1	145.91	108.99	Open To Flow (1)
12	164.52	113.57	Shut-In(1)
57	1342.58	114.04	End Shut-In(1)
57	186.86	114.03	Open To Flow (2)
101	196.46	122.80	Shut-In(2)
160	1340.41	120.75	End Shut-In(2)
162	1916.57	120.58	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	OIL AND GAS CUT MUD	1.26
0.00	20 GAS 30 OIL 50 MUD	0.00
60.00	OIL AND GAS CUT MUD	0.84
0.00	30 GAS 30 OIL 40 MUD	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**FLUID SUMMARY**

YOIUNGER EMERGY COMPANY

**27-21S-15W PAWNEE**

9415 E HARRY SUITE 4035  
WICHITAA, KANSAS 67207-

**GEORGIANN BAUER 1-27**

Job Ticket: 01165

**DST#: 1**

ATTN: KEITH REAVIS

Test Start: 2017.04.24 @ 08:30:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 55.00 sec/qt  
Water Loss: 7.98 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3000.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	OIL AND GAS CUT MUD	1.262
0.00	20 GAS 30 OIL 50 MUD	0.000
60.00	OIL AND GAS CUT MUD	0.842
0.00	30 GAS 30 OIL 40 MUD	0.000

Total Length: 150.00 ft      Total Volume: 2.104 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

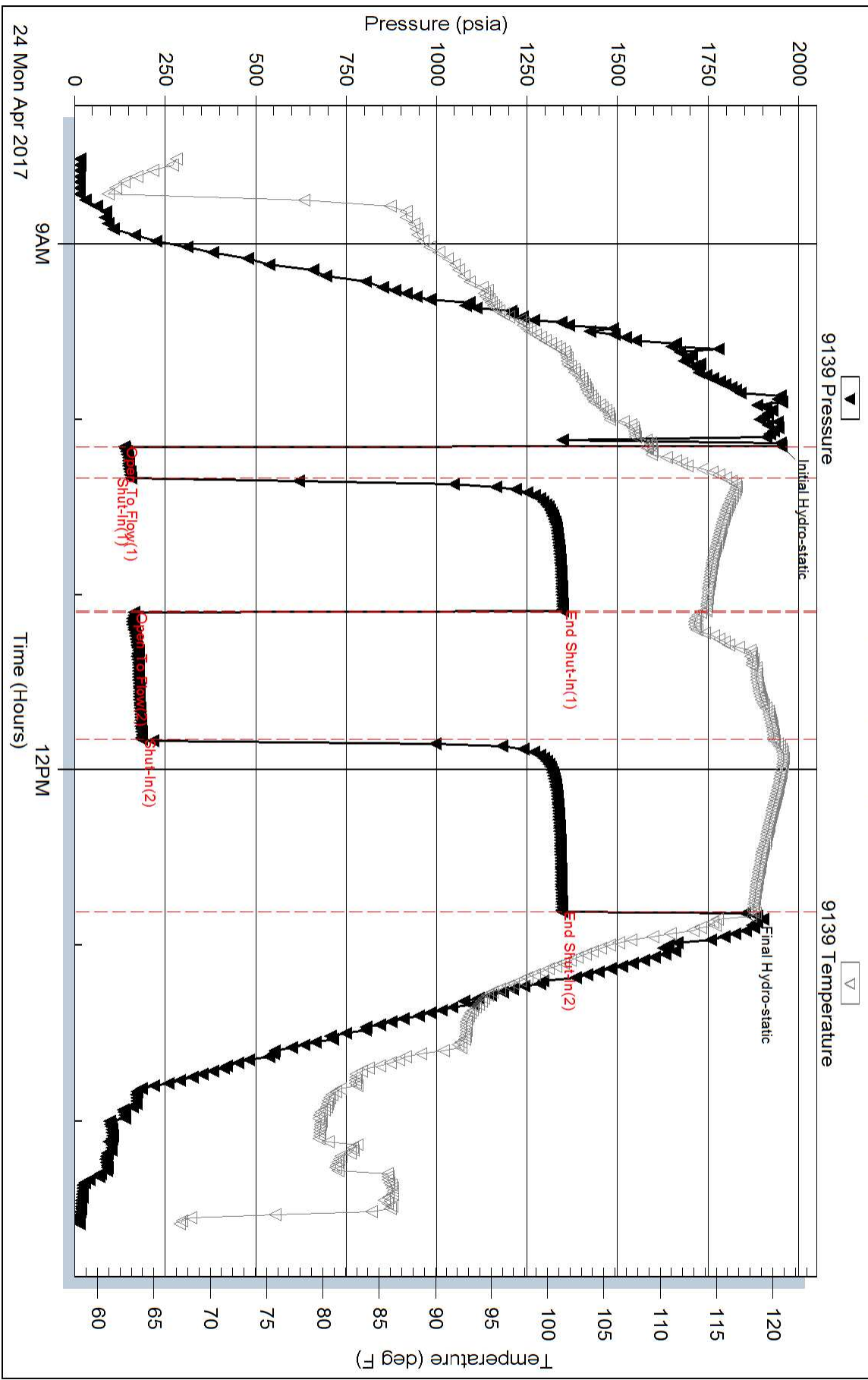
Serial #:

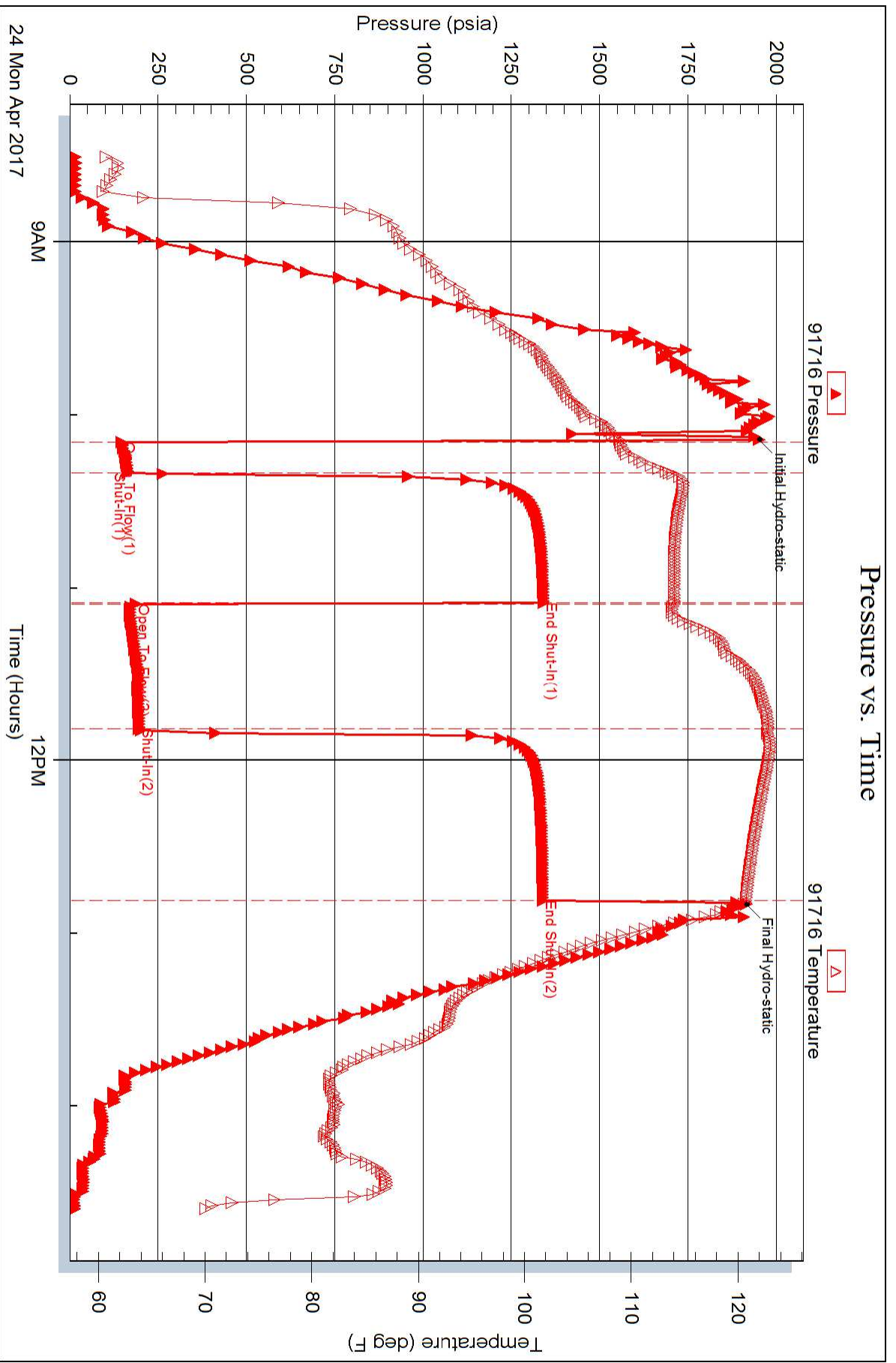
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **YOIUNGER EMERGY COMPANY**

9415 E HARRY SUITE 4035  
WICHITAA, KANSAS 67207-

ATTN: KEITH REAVIS

**GEORGIANN BAUER 1-27**

**27-21S-15W PAWNEE**

Start Date: 2017.04.24 @ 22:17:00

End Date: 2017.04.25 @ 04:09:00

Job Ticket #: 01166                      DST #: 2

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

Printed: 2017.04.25 @ 04:28:25



# DRILL STEM TEST REPORT

YOIUNGER EMERGY COMPANY

27-21S-15W PAWNEE

9415 E HARRY SUITE 4035  
WICHITAA, KANSAS 67207-

GEORGIANN BAUER 1-27

ATTN: KEITH REAVIS

Job Ticket: 01166

DST#: 2

Test Start: 2017.04.24 @ 22:17:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:39:00

Time Test Ended: 04:09:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: **3873.00 ft (KB) To 3884.00 ft (KB) (TVD)**

Reference Elevations: 1962.00 ft (KB)

Total Depth: 3884.00 ft (KB) (TVD)

1954.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 9139

Inside

Press@RunDepth: 1333.90 psia @ 3879.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2017.04.24

End Date:

2017.04.25

Last Calib.:

2017.04.25

Start Time: 23:39:00

End Time:

05:30:30

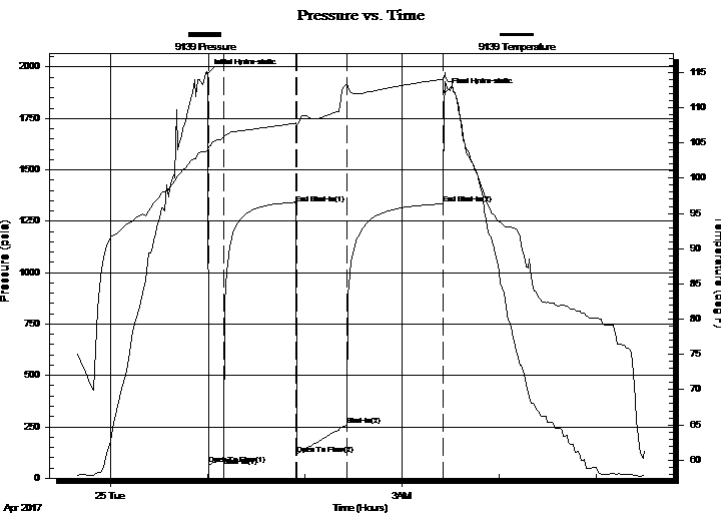
Time On Btm:

2017.04.25 @ 01:00:00

Time Off Btm:

2017.04.25 @ 03:26:30

TEST COMMENT: 1ST OPENING 10 MINUTES FAIR BLOW BOTTOM OF THE BUCKET IN 3 MINUTES  
1ST SHUT-IN 45 MINUTES GOOD BLOW BACK  
2ND OPENING 30 MINUTES FAIR BLOW BUILT TO THE BOTTOM OF THE BUCKET IN 4 MINUTES  
2ND SHUT-IN 60 MINUTES GOOD BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1969.56	103.92	Initial Hydro-static
1	68.52	104.51	Open To Flow (1)
10	102.92	105.72	Shut-In(1)
55	1333.83	107.80	End Shut-In(1)
56	117.91	107.51	Open To Flow (2)
86	258.68	113.43	Shut-In(2)
146	1333.90	114.02	End Shut-In(2)
147	1876.65	115.00	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	720 FEET OF GAS IN THE PIPE	0.00
560.00	CLEAN GASSY OIL	7.86
0.00	GRAVITY 41 CORRECTED	0.00
60.00	OIL AND GAS CUT MUD	0.84
0.00	5 GAS 25 OIL 70 MUD	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

YOIUNGER EMERGY COMPANY

27-21S-15W PAWNEE

9415 E HARRY SUITE 4035  
WICHITAA, KANSAS 67207-

GEORGIANN BAUER 1-27

ATTN: KEITH REAVIS

Job Ticket: 01166

DST#: 2

Test Start: 2017.04.24 @ 22:17:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:39:00

Time Test Ended: 04:09:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: **3873.00 ft (KB) To 3884.00 ft (KB) (TVD)**

Reference Elevations: 1962.00 ft (KB)

Total Depth: 3884.00 ft (KB) (TVD)

1954.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **91716** Outside

Press@RunDepth: 1328.28 psia @ 3879.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2017.04.24

End Date: 2017.04.25

Last Calib.: 1899.12.30

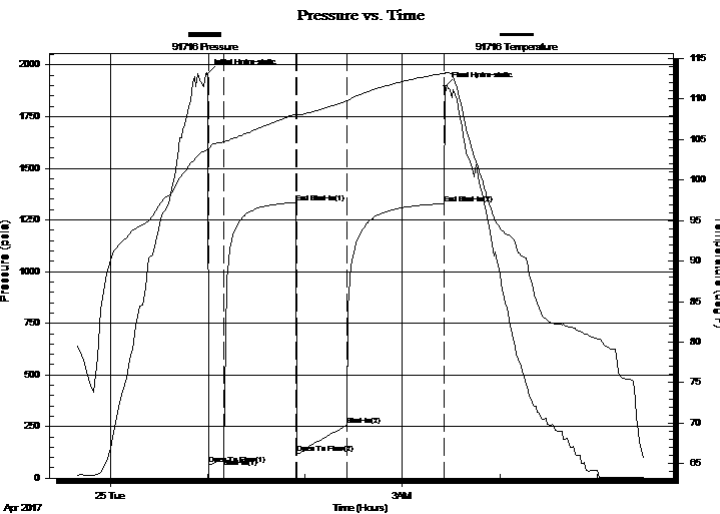
Start Time: 23:39:00

End Time: 05:30:00

Time On Btm: 2017.04.25 @ 00:59:30

Time Off Btm: 2017.04.25 @ 03:26:00

TEST COMMENT: 1ST OPENING 10 MINUTES FAIR BLOW BOTTOM OF THE BUCKET IN 3 MINUTES  
1ST SHUT-IN 45 MINUTES GOOD BLOW BACK  
2ND OPENING 30 MINUTES FAIR BLOW BUILT TO THE BOTTOM OF THE BUCKET IN 4 MINUTES  
2ND SHUT-IN 60 MINUTES GOOD BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1957.49	103.70	Initial Hydro-static
1	67.47	103.89	Open To Flow (1)
10	98.34	104.69	Shut-In(1)
55	1334.87	108.12	End Shut-In(1)
56	118.48	108.12	Open To Flow (2)
86	254.17	109.74	Shut-In(2)
146	1328.28	113.18	End Shut-In(2)
147	1896.23	113.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	720 FEET OF GAS IN THE PIPE	0.00
560.00	CLEAN GASSY OIL	7.86
0.00	GRAVITY 41 CORRECTED	0.00
60.00	OIL AND GAS CUT MUD	0.84
0.00	5 GAS 25 OIL 70 MUD	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

YOIUNGER EMERGY COMPANY

27-21S-15W PAWNEE

9415 E HARRY SUITE 4035  
WICHITAA, KANSAS 67207-

GEORGIANN BAUER 1-27

Job Ticket: 01166

DST#: 2

ATTN: KEITH REAVIS

Test Start: 2017.04.24 @ 22:17:00

## Tool Information

Drill Pipe:	Length: 3859.00 ft	Diameter: 3.80 inches	Volume: 54.13 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: 54.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3873.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3849.00	
Hydraulic tool	5.00			3854.00	
Jars	7.00			3861.00	
Safety Joint	2.00		Fluid	3863.00	
Top Packer	5.00			3868.00	
Packer	5.00			3873.00	29.00 Bottom Of Top Packer
Anchor	6.00			3879.00	
Recorder	0.00	9139	Inside	3879.00	
Recorder	0.00	91716	Outside	3879.00	
Bullnose	5.00			3884.00	11.00 Anchor Tool
<b>Total Tool Length:</b>	<b>40.00</b>				





# DRILL STEM TEST REPORT

FLUID SUMMARY

YOIUNGER EMERGY COMPANY

27-21S-15W PAWNEE

9415 E HARRY SUITE 4035  
WICHITAA, KANSAS 67207-

GEORGIANN BAUER 1-27

Job Ticket: 01166

DST#: 2

ATTN: KEITH REAVIS

Test Start: 2017.04.24 @ 22:17:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 55.00 sec/qt  
Water Loss: 8.00 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3000.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	720 FEET OF GAS IN THE PIPE	0.000
560.00	CLEAN GASSY OIL	7.855
0.00	GRAVITY 41 CORRECTED	0.000
60.00	OIL AND GAS CUT MUD	0.842
0.00	5 GAS 25 OIL 70 MUD	0.000

Total Length: 620.00 ft      Total Volume: 8.697 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

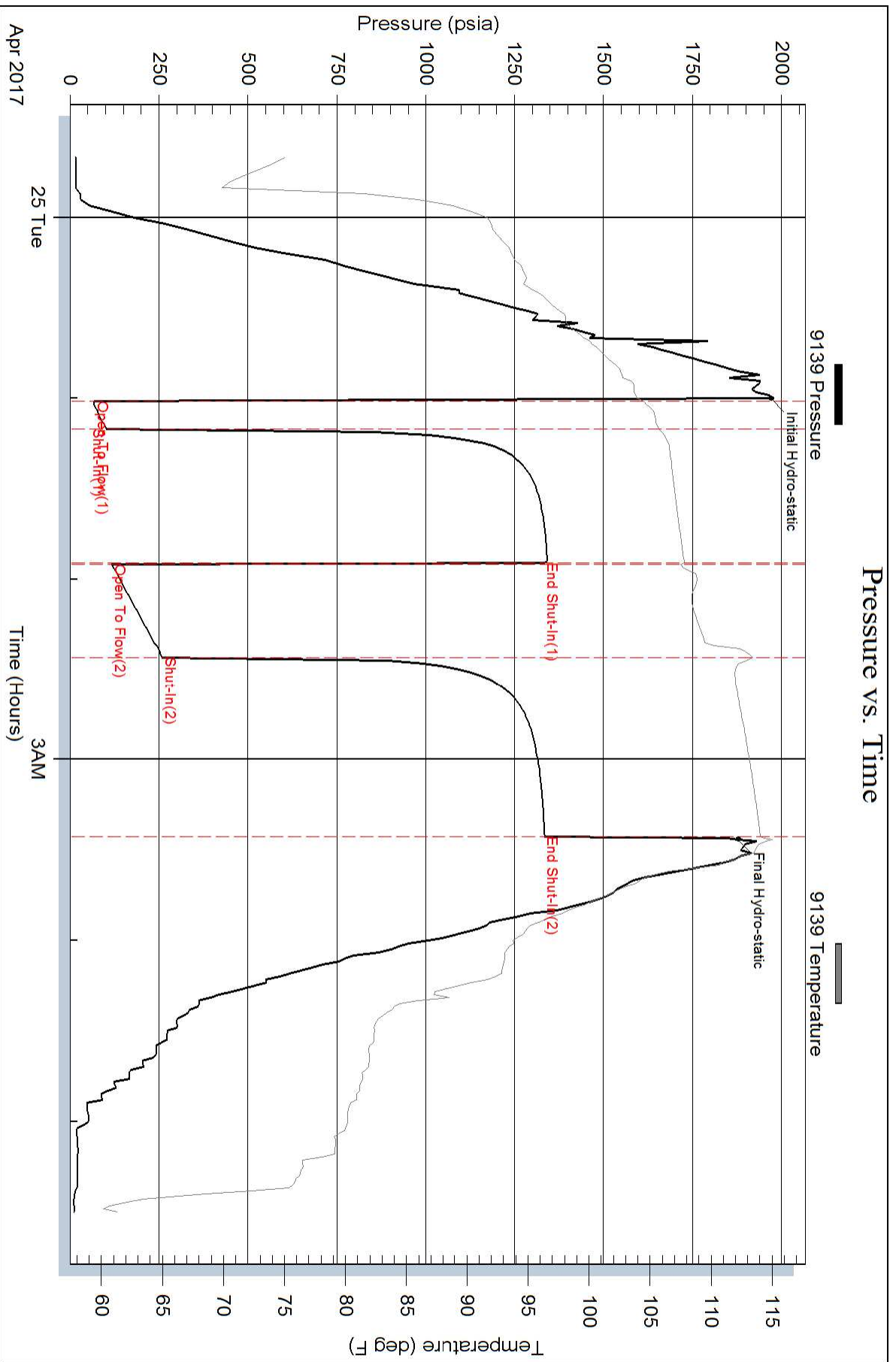
Serial #:

Laboratory Name:

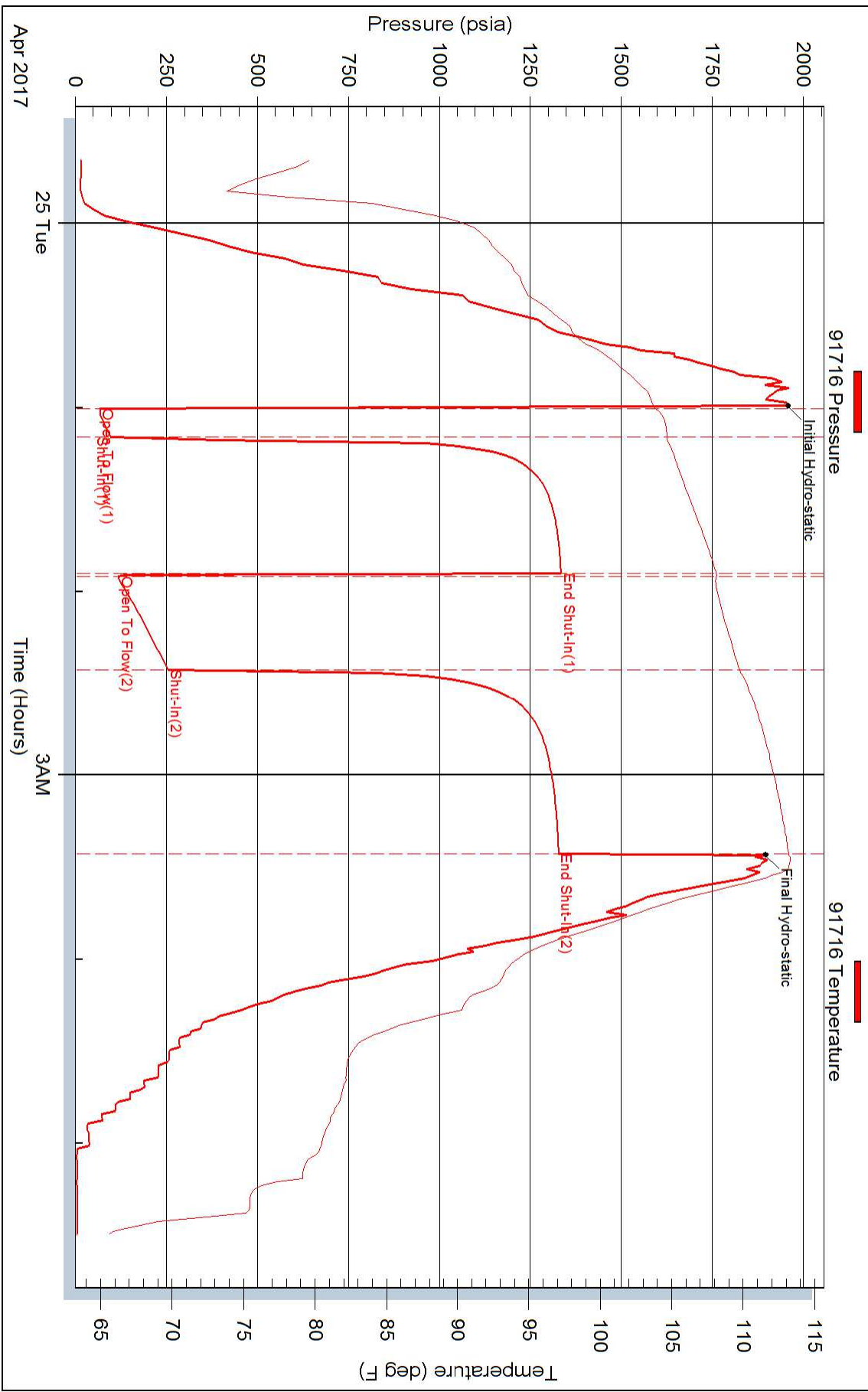
Laboratory Location:

Recovery Comments:

### Pressure vs. Time



### Pressure vs. Time



GLOBAL OIL FIELD SERVICES, LLC

Invoice

24 S. Lincoln  
RUSSELL, KS 67665

Date	Invoice #
4/26/2017	2923

Bill To
YOUNGER ENERGY COMPANY 9415 E HARRY ST STE 403 BLDG 400 WICHITA,KS 67207

RECEIVED  
APR 27 2017

P.O. No.	Terms	Project
GEDRGIANN BA...	Due on receipt	

Quantity	Description	Rate	Amount
240	COMMON	16.00	3,840.00
160	POZ	9.50	1,520.00
10	CALCIUM	59.00	590.00
7	GEL	21.50	150.50T
410	HANDLING	1.90	779.00
	BULK MILEAGE	516.00	516.00
1	TRI-PLEX PUMP CHARGE FOR SURFACE	750.00	750.00
15	PUMP TRUCK MILEAGE	6.00	90.00
1	8 5/8 RUBBER PLUG	165.00	165.00
	DISCOUNT IF PAID WITHIN 15 DAYS OF INVOICE	-2,396.24	-2,396.24
	PAWNEE CO	8.50%	12.79

DR SW

DA

Thank you for your business.	<b>Total</b>	\$6,017.05
------------------------------	--------------	------------

G. Bauer  
copy to Doc  
@ IP



GLOBAL OIL FIELD SERVICES, LLC

24 S. Lincoln  
RUSSELL, KS 67665

Invoice

Date	Invoice #
5/1/2017	2925

Bill To
YOUNGER ENERGY COMPANY 9415 E HARRY ST STE 403 BLDG 400 WICHITA, KS 67207

RECEIVED  
MAY 3 2017

P.O. No.	Terms	Project
GEORGIAN BAU...	Due on receipt	

Quantity	Description	Rate	Amount
250	COMMON	16.00	4,000.00
5	GEL	21.50	107.50
21	SALT	16.00	336.00
500	MUD FLUSH	1.00	500.00
15	PICKUP FOR TRANSPORTATION OF GOODS TO JOB SITE	3.00	45.00
15	PUMP TRUCK MILEAGE	6.00	90.00
276	HANDLING	1.90	524.40
	BULK MILEAGE	331.12	331.12
1	TRI-PLEX PUMP CHARGE FOR LONGSTRING	1,450.00	1,450.00
1	5 1/2 AFU FLOAT SHOE	325.00	325.00
1	5 1/2 LD & BAFFLE	285.00	285.00
2	5 1/2 BASKET	215.00	430.00
10	5 1/2 TURBOLIZER	84.00	840.00
	DISCOUNT	-2,817.06	-2,817.06
	PAWNEE CO	8.50%	0.00

2017-04  
Pay 5-5-2017  
1180311  
Cement 5-1/2" production csg  
w/ 250 sts common 10% salt w/ 2% gel -  
used 30 sts in rat hole \* 20 sts in  
mouse hole

Thank you for your business.	<b>Total</b>	\$6,446.96
------------------------------	--------------	------------

6 Dawson  
10/20/17  
7/18

