



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1306644
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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

1306644

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Miller-Becker Enterprises, LLC
Well Name	Dumler 1-28
Doc ID	1306644

All Electric Logs Run

Induction Log
Micro Log
Compensated Neutron Log
Compensated Sonic
Gamma Ray

Form	ACO1 - Well Completion
Operator	Miller-Becker Enterprises, LLC
Well Name	Dumler 1-28
Doc ID	1306644

Tops

Name	Top	Datum
ANHYDRITE	976	+958
B-ANHYDRITE	1008	+926
TOPEKA	2886	-952
HEEBNER SH	3113	-1179
TORONTO	3130	-1196
DOUGLAS SH	3146	-1212
LKC	3171	-1237
BKC	3398	-1464
CONGOLMERATE	3408	-1474
ARBUCKLE	3424	-1490

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1306

Date	12-5-15	Sec.	28	Twp.	15	Range	15	County	Russell	State	Ks	On Location		Finish	9:30 AM
------	---------	------	----	------	----	-------	----	--------	---------	-------	----	-------------	--	--------	---------

Lease Dumler Location Millberger, Ks - 4W to 178th Street, IN

Well No.	1-28	Owner	1/4W 5/16th W to Rig
----------	------	-------	----------------------

Contractor Southwind 1
To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Type Job	Surface	Charge To	Miller - Becker
----------	---------	-----------	-----------------

Hole Size	12 1/4"	T.D.	817'
-----------	---------	------	------

Csg.	8 5/8"	Depth	815'
------	--------	-------	------

Tbg. Size		Depth	
-----------	--	-------	--

Tool		Depth	
------	--	-------	--

Cement Left in Csg.	42'	Shoe Joint	42'
---------------------	-----	------------	-----

Meas Line	Displace	49 1/4 BLS
-----------	----------	------------

EQUIPMENT			Common
Pumptrk	18	No. Cementer/Helper	Poz. Mix
Bulktrk	13	No. Driver	Gel.
Bulktrk	pu	No. Driver	Calcium

Remarks: Cement did Circulate

Rat Hole	
----------	--

Mouse Hole	
------------	--

Centralizers	
--------------	--

Baskets	
---------	--

D/V or Port Collar	
--------------------	--

Handling	
----------	--

Mileage	
---------	--

Guide Shoe	Rubber plug
------------	-------------

Centralizer	Baffle plate
-------------	--------------

Baskets	
---------	--

AFU Inserts	
-------------	--

Float Shoe	
------------	--

Latch Down	
------------	--

Pumptrk Charge	
----------------	--

Mileage	
---------	--

Signature	<u>[Signature]</u>	Tax	
-----------	--------------------	-----	--

		Discount	
--	--	----------	--

		Total Charge	
--	--	--------------	--

OPERATOR

Company: MILLER-BECKER ENTERPRISES, LLC
 Address: 100 S. MAIN STREET
 RUSSELL, KANSAS 67665

Contact Geologist: DRU MILLER/RYAN BECKER
 Contact Phone Nbr: 785-483-2880
 Well Name: DUMLER # 1-28
 Location: E2 NE NW NE SEC 28-T15S-R15W
 API: 15-167-24,042-00-00
 Pool: WILDCAT
 State: KANSAS
 Field: UNNAMED
 Country: USA

Scale 1:240 Imperial

Well Name: DUMLER # 1-28
 Surface Location: E2 NE NW NE SEC 28-T15S-R15W
 Bottom Location:
 API: 15-167-24,042-00-00
 License Number: 34589
 Spud Date: 12/4/2015 Time: 5:30 PM
 Region: RUSSELL COUNTY
 Drilling Completed: 12/10/2015 Time: 4:01 AM
 Surface Coordinates: 330' FNL & 1580' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 1924.00ft
 K.B. Elevation: 1934.00ft
 Logged Interval: 2800.00ft To: 3525.00ft
 Total Depth: 3525.00ft
 Formation: LANSING-KANSAS CITY
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: 38.724747
 Latitude: -98.991726
 N/S Co-ord: 330' FNL
 E/W Co-ord: 1580' FEL

LOGGED BY

Company: SOLUTIONS CONSULTING, INC.
 Address: 108 W 35TH
 HAYS, KS 67601

Phone Nbr: (785) 639-1337
 Logged By: GEOLOGIST Name: HERB DEINES

CONTRACTOR

Contractor: SOUTHWIND DRILLING, INC.
 Rig #: 1
 Rig Type: MUD ROTARY
 Spud Date: 12/4/2015 Time: 5:30 PM
 TD Date: 12/10/2015 Time: 4:01 AM
 Rig Release: 12/10/2015 Time: 10:30 PM

ELEVATIONS

K.B. Elevation: 1934.00ft Ground Elevation: 1924.00ft
 K.B. to Ground: 10.00ft

NOTES

RECOMMENDATION TO PLUG AND ABANDON WELL BASED ON NEGATIVE RESULTS OF TWO DSTS.

ALTHOUGH THE WELL RAN STRUCTURALLY HIGH TO SURROUNDING WELLS, THERE WAS NO ADEQUATE RESERVOIR DEVELOPMENT IN ANY OF THE PRIMARY OR SECONDARY PAY ZONES.

OPEN HOLE LOGGING BY TUCKER ENERGY SERVICES: DUAL INDUCTION LOG, COMPENSATED NEUTRON/DENSITY LOG, MICROLOG, SONIC LOG, COMPOSITE LOG

DRILL STEM TESTING BY EAGLE TESTERS LLC: TWO (2) CONVENTIONAL TESTS

Dumler #1-28	Dumler B #1	Steinert #4
E2 NE NW NE	NW NW NE	NW SE SE SW
Sec.28-15S-15W	Sec.28-15-15W	Sec.21-15-15W
1924'GL 1934'KB	KB 1926'	KB 1891'

<u>FORMATION</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>
Anhydrite	976 +958	+ 955	+ 944
B-Anhydrite	1008 +926	+ 922	+ 913
Topeka	2886 - 952	- 958	- 959
Heebner Sh.	3113-1179	-1184	-1185
Toronto	3130-1196	-1204	-1204
Douglas Sh.	3146-1212	-1218	-1219
LKC	3171-1237	-1244	-1245
BKC	3398-1464	-1471	-1469
Conglomerate	3408-1474	-1482	-1473
Arbuckle	3424-1490	-1515	-1492
RTD	3525-1591	-1529	-1519

SUMMARY OF DAILY ACTIVITY

12-04-15 RU, Spud 5:30 PM,
 12-05-15 817', set 8 5/8" surface casing to 815' w/350 sxs 70/30 2%Gel 3%CC, slope ½ degree, plug down 9:30AM, drill plug 5:30 PM
 12-06-15 1288', drilling
 12-07-15 2365', drilling, displaced 2769' to 2803'
 12-08-15 3125', drilling, CFS 3145', short trip, CFS 3200', DST #1 3141' to 3200' "A"- "C"
 12-09-15 3310', drilling, CFS 3365', DST # 2 3298' to 3365' "H" – "J" LKC, TIWB
 12-10-15 3525', drilling, RTD 3525' @4:01AM, CCH, TOWB, logs, LDDP, P&A, slope ¾ degree



DRILL STEM TEST REPORT

MILLER BECKER ENTERPRISES L.L.C.

28-15S-15W RUSSELL

100 SOUTH MAIN STREET
RUSSELL, KANSAS 67665

DUMBLER 1-28

ATTN: HERB DIENES

Job Ticket: 01205

DST#: 1

Test Start: 2015.12.08 @ 04:11:00

GENERAL INFORMATION:

Formation: **KANSAS CITY A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:33:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: **3141.00 ft (KB) To 3200.00 ft (KB) (TVD)**

Reference Elevations: 1934.00 ft (KB)

Total Depth: 3200.00 ft (KB) (TVD)

1924.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 9139

Outside

Press@RunDepth: 142.03 psia @ 3195.65 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.12.08

End Date: 2015.12.08

Last Calib.: 2015.12.08

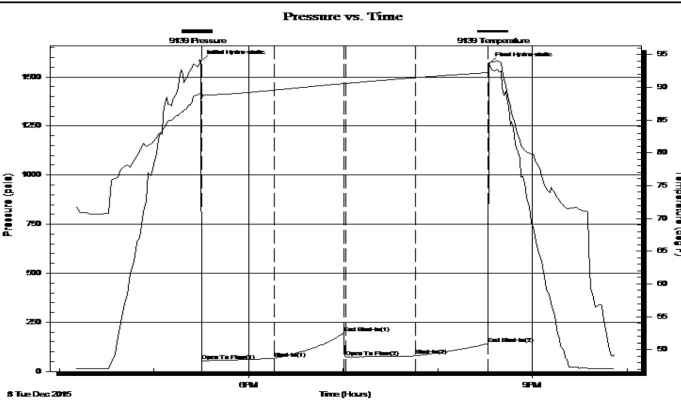
Start Time: 16:10:00

End Time: 21:52:30

Time On Btm: 2015.12.08 @ 17:29:30

Time Off Btm: 2015.12.08 @ 20:32:30

TEST COMMENT: 1ST OPENING 45 MINUTES WEAK BUILDING BLOW BUILT TO 7 INCHES INTO THE WATER
1ST SHUT-IN 45 MINUTES NO BLOW BACK
2ND OPENING 45 MINUTES WEAK BUILDING BLOW BUILT TO 7 1/2 INCHES INTO THE WATER
2ND SHUT-IN 45 MINUTES NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1581.80	89.22	Initial Hydro-static
1	53.11	88.22	Open To Flow (1)
47	66.69	89.56	Shut-In(1)
91	196.51	90.59	End Shut-In(1)
92	73.25	90.58	Open To Flow (2)
137	79.83	91.46	Shut-In(2)
183	142.03	92.24	End Shut-In(2)
183	1567.34	93.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	120 FEET OF GAS IN THE PIPE	0.00
60.00	OIL CUT MUD 20 OIL 80 MUD	0.84

Gas Rates

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

Eagle Testers

Ref. No: 01205

Printed: 2015.12.08 @ 22:13:56



DRILL STEM TEST REPORT

MILLER BECKER ENTERPRISES L.L.C.

28-15S-15W RUSSELL

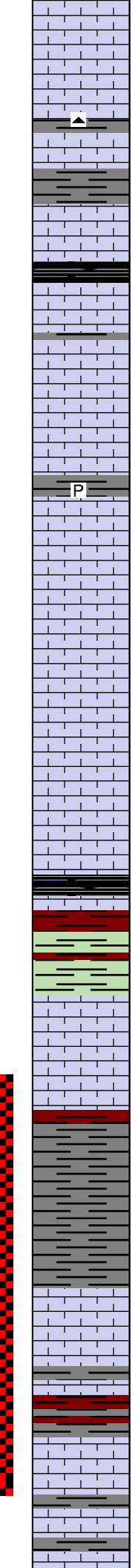
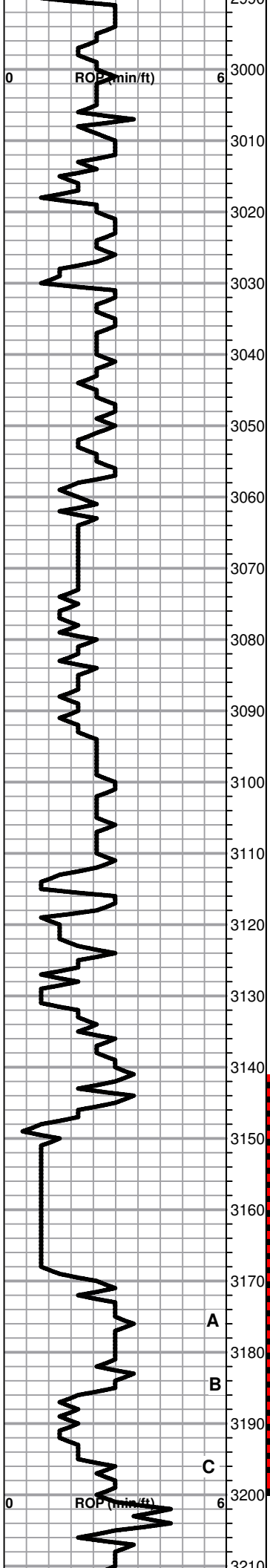
100 SOUTH MAIN STREET
RUSSELL, KANSAS 67665

DUMBLER 1-28

Job Ticket: 01205

DST#: 1

Depth Interval	DST	Lithology	Oil Show	Geological Descriptions	1:240 Imperial
Cored Interval DST Interval					1:240 Imperial
0 ROP (min/ft)	6	2800		BEGIN 1' DRILL TIME FROM 2800' TO RTD BEGIN 10' WET AND DRY SAMPLES FROM 2850' TO RTD	8 5/8" SURFACE CASING SET TO 815' W/ 350 SXS 70/30 2% GEL, 3% CC
0 ROP (min/ft)	6	2800		ANHYDRITE TOP 976+958 ANHYDRITE BASE 1008+926	SLOPE @817' 1/2 DEGREE
				Lime, lt brn-lt gray, fnxln, slightly fossiliferous	
				Lime, lt brn-lt gray, fnlxn	
				Shale, lt gray, soft sticky clumps	
				Lime, lt brn-lt gray, fnxln	
				Lime, lt brn, fn-vfxln	
				Lime, lt brn-lt gray, fn-vfxln, hard on crush	
				Shale, lt-med gray, soft-firm blocky, slightly fossiliferous in part	
				<u>TOPEKA ELog 2886-952</u>	
				Lime, lt brn-lt grayish brn, fnxln, slight bedded chalk in part, NS	
				Lime, lt brn-lt grayish brn, fnxln with slight chalky matrix in part, NS	
				Lime, lt brn-lt grayish brn, fnxln with soft chalky layers in part	
				Lime, lt brn, fnxln	
				Lime, lt-med brn, fnxln with scattered fusulinids and fine micro fossils	
				Lime, lt brn, fnxln, increasing chalky matrix with bedded chalk	
				Lime, lt brn-med grayish brn, fnxln-granular, slightly fossiliferous	
				Lime, lt-med brn, fnxln, slight bedded chalk, slightly fossiliferous	
				Shale, black carbonaceous, blocky Lime, lt brn, fn-vfxln	
				Lime, crm-lt brn, fn-micro xln	
				Lime, crm-lt brn-lt grayish brn, fn-vfxln	



Lime, crm-lt brn-lt grayish brn, fn-micro xln

Lime, lt-med brn-lt grayish brn, fn-vfxln with thin beds of cemented fossils

Lime, lt brn, fn-vfxln, slightly fossiliferous

Shale, black carbonaceous, fissile, blocky

Lime, lt brn-lt gray, fnxln

Lime, lt brn-lt grayish brn, fnxln, slightly fossiliferous with scattered fusulinids

Lime, lt brn, fnxln, slightly fossiliferous

Lime, lt brn, fnxln, slightly fossiliferous

Lime, crm-lt brn, mostly fnxln with few oomoldic chips with trace of spotty staining

Lime, lt-med brn, mostly fn-vfxln

Lime, lt brn, fnxln-slightly granular with soft chalk in part

Lime, crm-lt brn, fnxln

Lime, lt brn, fn-micro xln

HEEBNER SHALE ELog 3113-1179

Shale, black carbonaceous, fissile, blocky
Lime, Lt gray, fn-vfxln

Lime, reddish brn-lime green, soft sticky

TORONTO ELog 3130-1196

Lime, white-crm, fn-vfxln, slight bedded chalk, NS

Lime, white-tan, fn-micro xln, thin hard chalk beds, NS

DOUGLAS SHALE ELog 3146-1212

Shale, lt red wash grading into lt-med gray shale, soft blocky

LKC ELog 3171-1237

Lime, crm, mostly fnxln, few chips with oolitic/fossil fragments with trace of lt stain in fossil casts, NFO, very lt odor

Lime, crm-tan-med brn, fn-vfxln

Shale, lt gray-lt reddish brn, soft sticky

Lime, crm-lt brn, fnxln with few chips with fossil casts with lt spotty staining, NFO, very lt odor

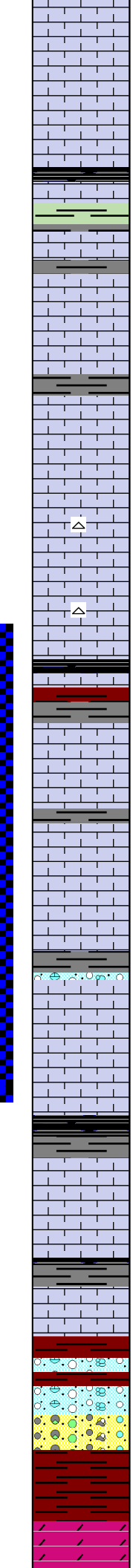
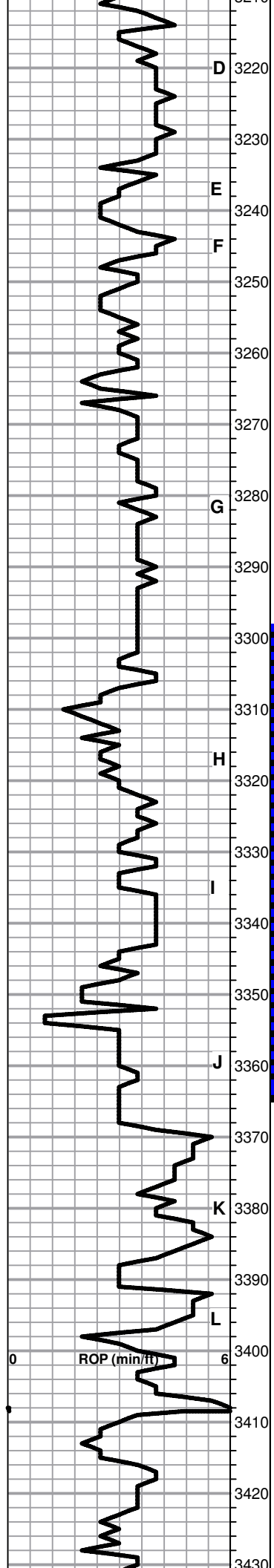
Lime, crm-lt brn, fnxln

DST # 1 3141' TO 3200' SEE HEADER FOR TEST SUMMARY

A

B

C



Lime, crm-lt brn, fnxln, slight chalk, NS

Lime, white-crm, fn-micro xln

Shale, gray-black carbonaceous

Lime, lt brn, fnxln, few oolitic/fossil fragments chips with trace of lt stain, NFO, No visible porosity

Lime, white-crm, fnxln, bedded chalk with few speck of hard dead oil

Lime, crm-tan, fnxln with lt bedded chalk

Lime, crm-lt brn, fnxln, lt bedded chalk

Lime, crm-tan, fnxln with bedded chalk

Lime, crm-lt-med brn, fn-vfxln

Lime, lt-med brn, fnxln
Shale, black carbonaceous, blocky

Shale, reddish brn-med gray, soft-firm blocky

Lime, crm-brn, fnxln, slight bedded chalk, no visible porosity

Lime, tan-lt brn, fn-micro xln, no visible porosity

Lime, tan-lt brn, fn-micro xln,

Shale, med gray, blocky
Lime, white-crm, fnxln-micro xln in part, few brittle chips, few chips with clastic mix of lime rubble and shale, NS,

Lime, lt brn, mostly fn-micro xln

Shale, lt-med gray-black, firm blocky

Lime, white-crm, fnxln, slight bedded chalk, NS

Lime, white-crm, fn-vfxln, chalky with white wash

Lime, crm, fnxln, bedded chalk

BKC ELog 3398-1464

Shale, reddish brn, soft-firm blocky, clastic lime and chert

CONGLOMERATE ELog 3408-1474

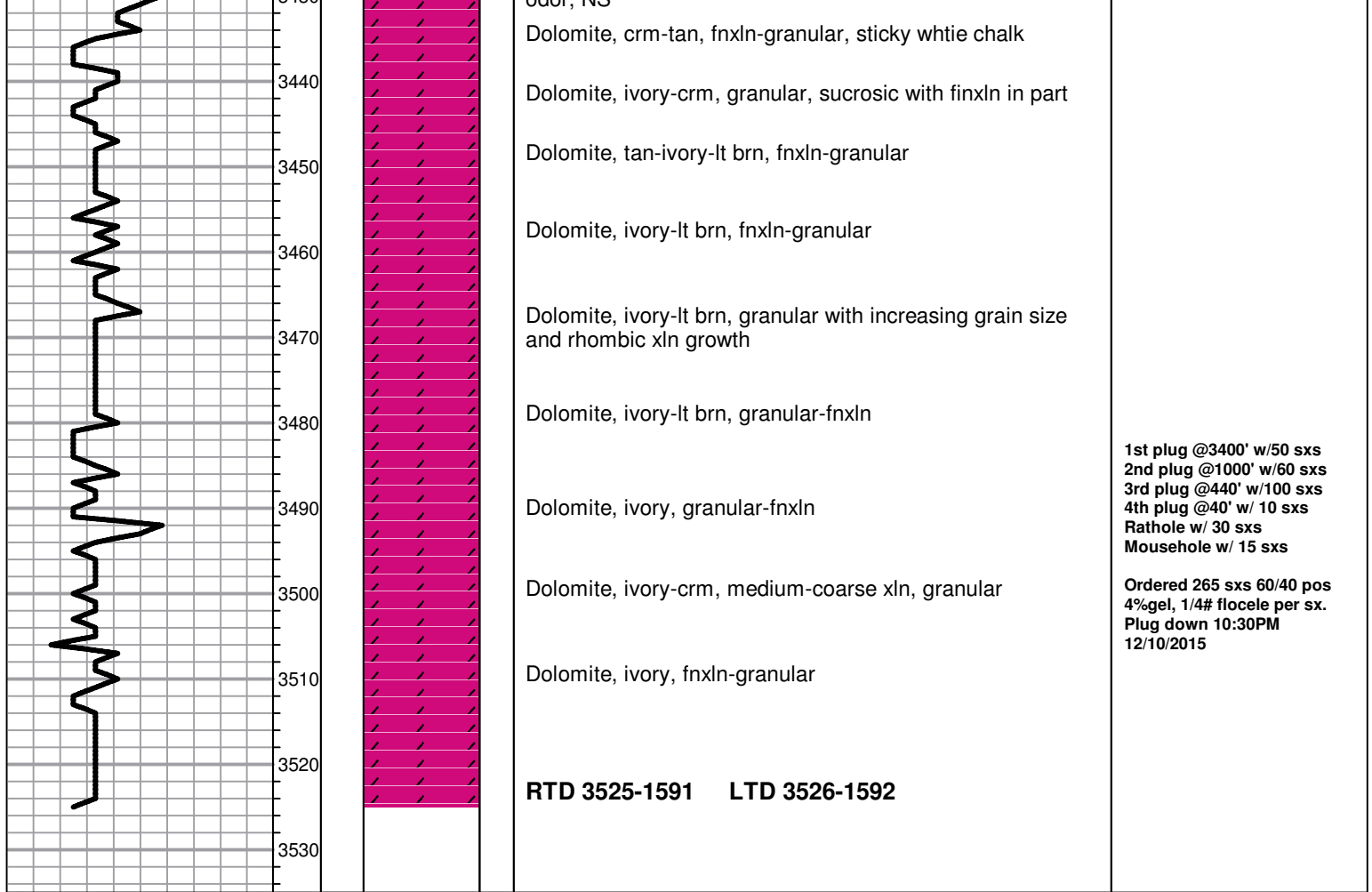
Shale, red wash with vari colored cherts, sharp, fresh

Shale, red with lt red wash

ARBUCKLE ELog 3424-1490

Dolomite, lt brn-tan, fnxln-granular with clumps of chalk, no odor, NS

DST # 2 3298' TO 3365' SEE
HEADER FOR TEST
SUMMARY





DRILL STEM TEST REPORT

Prepared For: **MILLER BECKER ENTERPRISES L.L.C.**

100 SOUTH MAIN STREET
RUSSELL, KANSAS 67665

ATTN: HERB DIENES

DUMBLER 1-28

28-15S-15W RUSSELL

Start Date: 2015.12.08 @ 04:11:00

End Date: 2015.12.08 @ 00:00:00

Job Ticket #: 01205 DST #: 1

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

Printed: 2015.12.08 @ 22:13:56



DRILL STEM TEST REPORT

MILLER BECKER ENTERPRISES L.L.C.

28-15S-15W RUSSELL

100 SOUTH MAIN STREET
RUSSELL, KANSAS 67665

DUMBLER 1-28

Job Ticket: 01205

DST#: 1

ATTN: HERB DIENES

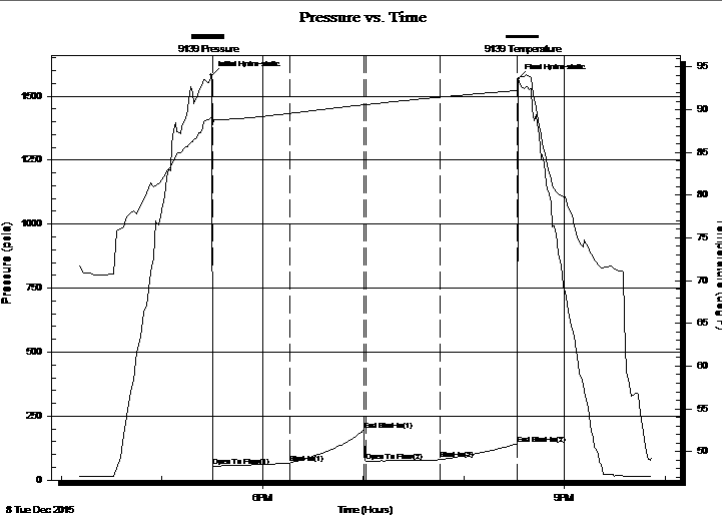
Test Start: 2015.12.08 @ 04:11:00

GENERAL INFORMATION:

Formation: **KANSAS CITY A-C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:33:00
 Time Test Ended: 00:00:00
 Interval: **3141.00 ft (KB) To 3200.00 ft (KB) (TVD)**
 Total Depth: 3200.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: GENE BUDIG
 Unit No: 1
 Reference Elevations: 1934.00 ft (KB)
 1924.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 9139 Outside
 Press@RunDepth: 142.03 psia @ 3195.65 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.12.08 End Date: 2015.12.08 Last Calib.: 2015.12.08
 Start Time: 16:10:00 End Time: 21:52:30 Time On Btm: 2015.12.08 @ 17:29:30
 Time Off Btm: 2015.12.08 @ 20:32:30

TEST COMMENT: 1ST OPENING 45 MINUTES WEAK BUILDING BLOW BUILT TO 7 INCHES INTO THE WATER
 1ST SHUT-IN 45 MINUTES NO BLOW BACK
 2ND OPENING 45 MINUTES WEAK BUILDING BLOW BUILT TO 7 1/2 INCHES INTO THE WATER
 2ND SHUT-IN 45 MINUTES NO BLOW BACK



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1581.80	89.22	Initial Hydro-static
1	53.11	88.22	Open To Flow (1)
47	66.69	89.56	Shut-In(1)
91	196.51	90.59	End Shut-In(1)
92	73.25	90.58	Open To Flow (2)
137	79.83	91.46	Shut-In(2)
183	142.03	92.24	End Shut-In(2)
183	1567.34	93.42	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	120 FEET OF GAS IN THE PIPE	0.00
60.00	OIL CUT MUD 20 OIL 80 MUD	0.84

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



DRILL STEM TEST REPORT

MILLER BECKER ENTERPRISES L.L.C.

28-15S-15W RUSSELL

100 SOUTH MAIN STREET
RUSSELL, KANSAS 67665

DUMBLER 1-28

Job Ticket: 01205

DST#: 1

ATTN: HERB DIENES

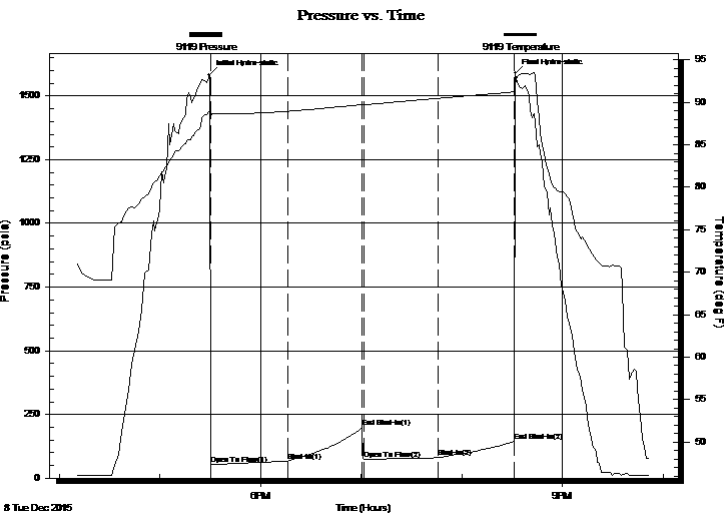
Test Start: 2015.12.08 @ 04:11:00

GENERAL INFORMATION:

Formation: **KANSAS CITY A-C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:33:00
 Time Test Ended: 00:00:00
 Interval: **3141.00 ft (KB) To 3200.00 ft (KB) (TVD)**
 Total Depth: 3200.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: GENE BUDIG
 Unit No: 1
 Reference Elevations: 1934.00 ft (KB)
 1924.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 9119 Inside
 Press@RunDepth: 144.25 psia @ 3195.65 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.12.08 End Date: 2015.12.08 Last Calib.: 2015.12.08
 Start Time: 16:10:00 End Time: 21:52:30 Time On Btm: 2015.12.08 @ 17:29:30
 Time Off Btm: 2015.12.08 @ 20:32:00

TEST COMMENT: 1ST OPENING 45 MINUTES WEAK BUILDING BLOW BUILT TO 7 INCHES INTO THE WATER
 1ST SHUT-IN 45 MINUTES NO BLOW BACK
 2ND OPENING 45 MINUTES WEAK BUILDING BLOW BUILT TO 7 1/2 INCHES INTO THE WATER
 2ND SHUT-IN 45 MINUTES NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1582.35	88.94	Initial Hydro-static
1	52.77	88.17	Open To Flow (1)
47	67.71	88.94	Shut-In(1)
91	199.41	89.73	End Shut-In(1)
92	72.47	89.71	Open To Flow (2)
137	80.63	90.47	Shut-In(2)
182	144.25	91.22	End Shut-In(2)
183	1589.32	92.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	120 FEET OF GAS IN THE PIPE	0.00
60.00	OIL CUT MUD 20 OIL 80 MUD	0.84

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

MILLER BECKER ENTERPRISES L.L.C.

28-15S-15W RUSSELL

100 SOUTH MAIN STREET
RUSSELL, KANSAS 67665

DUMBLER 1-28

Job Ticket: 01205

DST#: 1

ATTN: HERB DIENES

Test Start: 2015.12.08 @ 04:11:00

Tool Information

Drill Pipe:	Length: 3146.00 ft	Diameter: 3.80 inches	Volume: 44.13 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.76 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 44.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3141.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.65 ft			
Tool Length:	79.65 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			3126.00	
Hydraulic tool	5.00			3131.00	
Top Packer	5.00			3136.00	
Packer	5.00			3141.00	20.00 Bottom Of Top Packer
Anchor	5.00			3146.00	
Change Over Sub	0.75			3146.75	
Drill Pipe	31.15			3177.90	
Change Over Sub	0.75			3178.65	
Anchor	17.00			3195.65	
Recorder	0.00	9119	Inside	3195.65	
Recorder	0.00	9139	Outside	3195.65	
Bullnose	5.00			3200.65	59.65 Anchor Tool

Total Tool Length: 79.65



DRILL STEM TEST REPORT

FLUID SUMMARY

MILLER BECKER ENTERPRISES L.L.C.

28-15S-15W RUSSELL

100 SOUTH MAIN STREET
RUSSELL, KANSAS 67665

DUMBLER 1-28

Job Ticket: 01205

DST#: 1

ATTN: HERB DIENES

Test Start: 2015.12.08 @ 04:11:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 7500.00 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	120 FEET OF GAS IN THE PIPE	0.000
60.00	OIL CUT MUD 20 OIL 80 MUD	0.842

Total Length: 60.00 ft Total Volume: 0.842 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

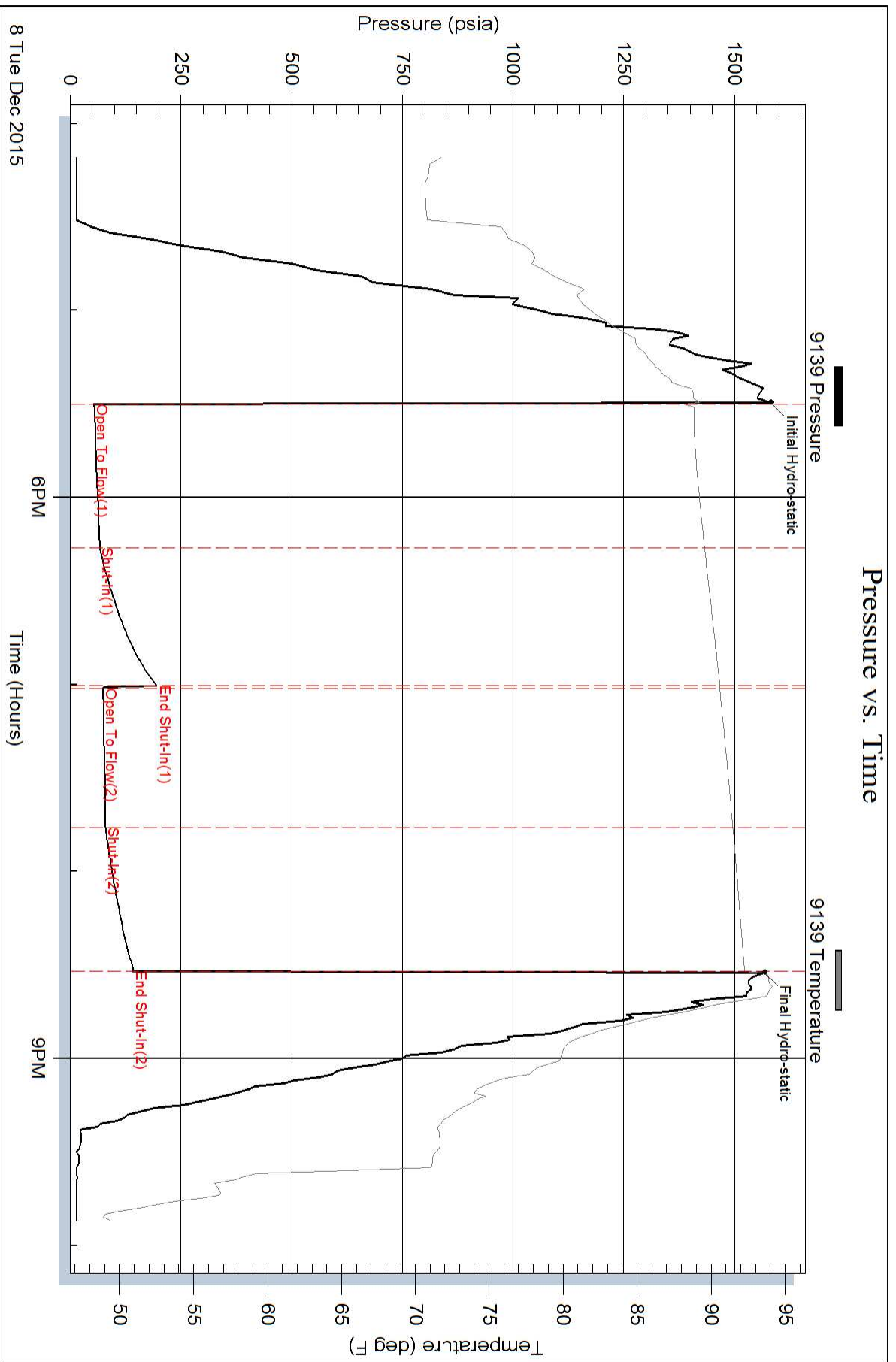
Serial #:

Laboratory Name:

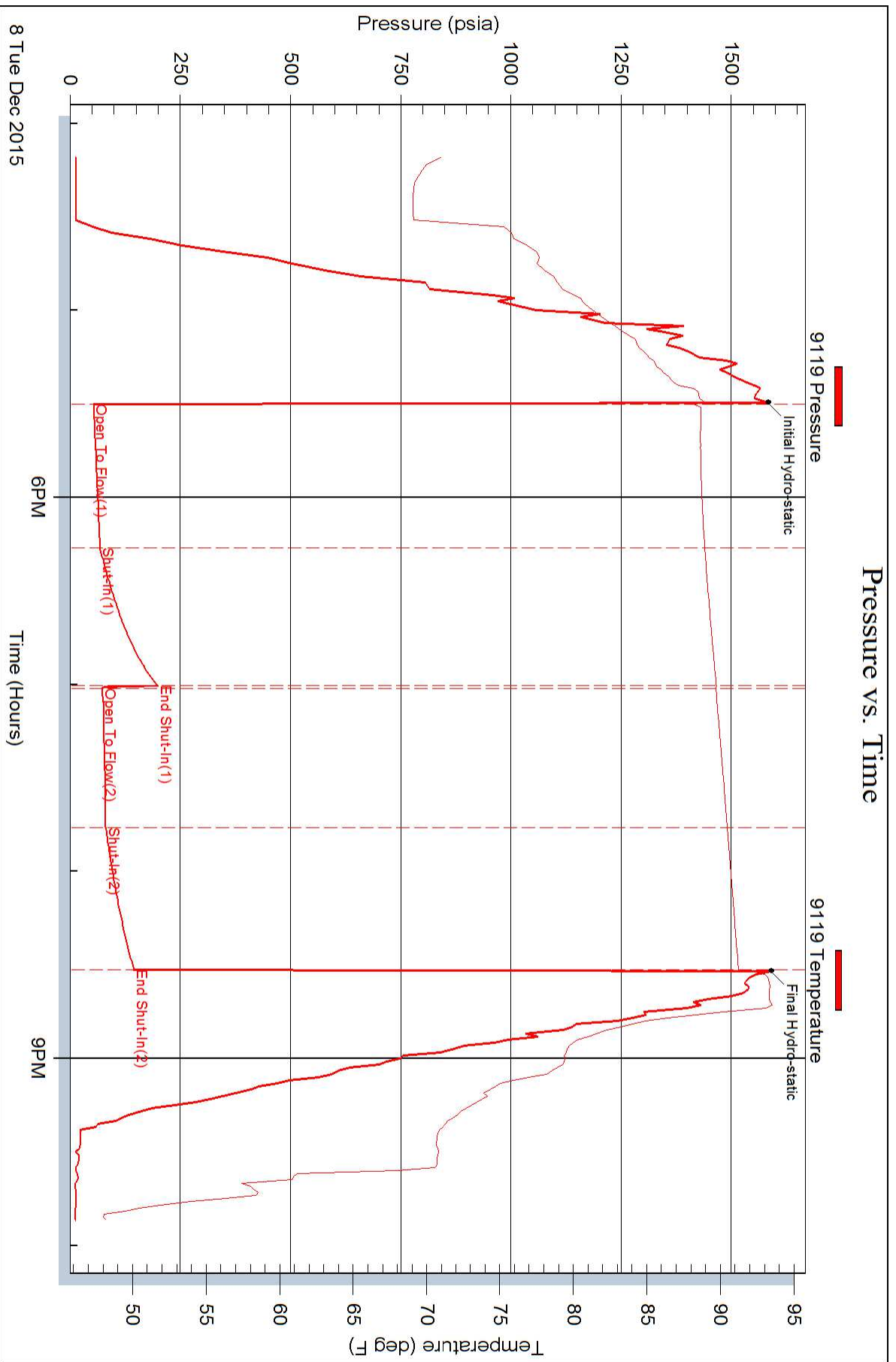
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **MILLER BECKER ENTERPRISES L.L.C.**

100 SOUTH MAIN STREET
RUSSELL, KANSAS 67665

ATTN: HERB DIENES

DUMBLER 1-28

28-15S-15W RUSSELL

Start Date: 2015.12.09 @ 01:20:00

End Date: 2015.12.09 @ 17:30:00

Job Ticket #: 01206 DST #: 2

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

Printed: 2015.12.09 @ 17:43:48



DRILL STEM TEST REPORT

MILLER BECKER ENTERPRISES L.L.C.

28-15S-15W RUSSELL

100 SOUTH MAIN STREET
RUSSELL, KANSAS 67665

DUMBLER 1-28

Job Ticket: 01206

DST#: 2

ATTN: HERB DIENES

Test Start: 2015.12.09 @ 01:20:00

GENERAL INFORMATION:

Formation: **KANSAS CITY H-I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:34:00

Time Test Ended: 17:30:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1-70

Interval: 3298.00 ft (KB) To 3365.00 ft (KB) (TVD)

Reference Elevations: 1934.00 ft (KB)

Total Depth: 3365.00 ft (KB) (TVD)

1924.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 9119

Inside

Press@RunDepth: 568.33 psia @ 3360.14 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.12.09

End Date:

2015.12.09

Last Calib.:

2015.12.09

Start Time: 13:20:00

End Time:

17:26:30

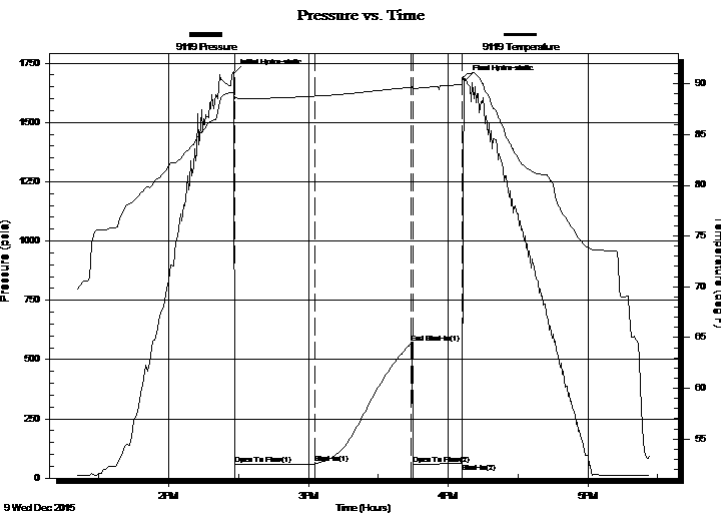
Time On Btm:

2015.12.09 @ 14:28:00

Time Off Btm:

2015.12.09 @ 16:07:30

TEST COMMENT: 1ST OPENING 30 MINUTES WEAK SURFACE BLOW FOR 6 MINUTES AND DIED
1ST SHUT-IN 45 MINUTES NO BLOW BACK
2ND OPENING 20 MINUTES NO BLOW FLUSHED TOOL GOOD SURGE NO HELP CAME OUT OF THE
HOLE NO FINAL SHUT-IN TAKEN



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1707.08	89.04	Initial Hydro-static
1	57.31	88.55	Open To Flow (1)
35	61.03	88.79	Shut-In(1)
76	568.33	89.67	End Shut-In(1)
77	58.79	89.53	Open To Flow (2)
98	61.14	89.95	Shut-In(2)
100	1679.11	90.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
8.00	drilling mud	0.11

Gas Rates

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



DRILL STEM TEST REPORT

MILLER BECKER ENTERPRISES L.L.C.

28-15S-15W RUSSELL

100 SOUTH MAIN STREET
RUSSELL, KANSAS 67665

DUMBLER 1-28

Job Ticket: 01206

DST#: 2

ATTN: HERB DIENES

Test Start: 2015.12.09 @ 01:20:00

GENERAL INFORMATION:

Formation: **KANSAS CITY H-I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:34:00

Time Test Ended: 17:30:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1-70

Interval: 3298.00 ft (KB) To 3365.00 ft (KB) (TVD)

Reference Elevations: 1934.00 ft (KB)

Total Depth: 3365.00 ft (KB) (TVD)

1924.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 9139 Outside

Press@RunDepth: 571.73 psia @ 3360.14 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.12.09

End Date: 2015.12.09

Last Calib.: 2015.12.09

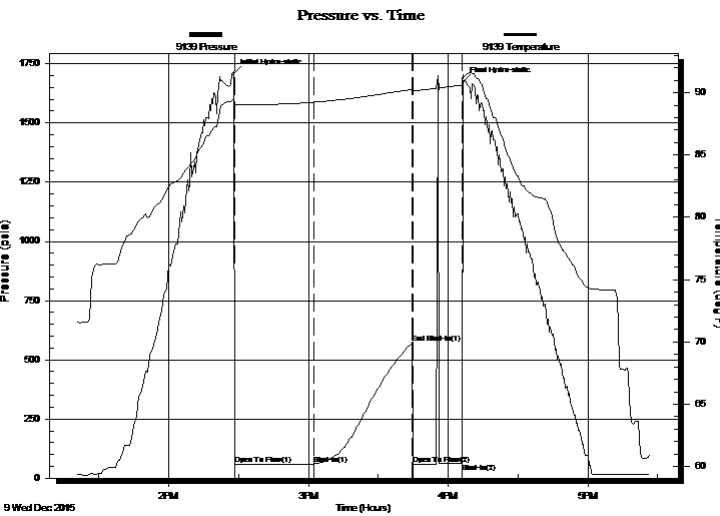
Start Time: 13:20:00

End Time: 17:26:30

Time On Btm: 2015.12.09 @ 14:28:00

Time Off Btm: 2015.12.09 @ 16:06:30

TEST COMMENT: 1ST OPENING 30 MINUTES WEAK SURFACE BLOW FOR 6 MINUTES AND DIED
1ST SHUT-IN 45 MINUTES NO BLOW BACK
2ND OPENING 20 MINUTES NO BLOW FLUSHED TOOL GOOD SURGE NO HELP CAME OUT OF THE
HOLE NO FINAL SHUT-IN TAKEN



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1709.00	89.47	Initial Hydro-static
1	58.88	89.02	Open To Flow (1)
35	59.67	89.25	Shut-In(1)
77	571.73	90.26	End Shut-In(1)
77	59.83	90.14	Open To Flow (2)
99	61.01	90.62	Shut-In(2)
99	1673.53	91.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
8.00	drilling mud	0.11

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

MILLER BECKER ENTERPRISES L.L.C.

28-15S-15W RUSSELL

100 SOUTH MAIN STREET
RUSSELL, KANSAS 67665

DUMBLER 1-28

Job Ticket: 01206

DST#: 2

ATTN: HERB DIENES

Test Start: 2015.12.09 @ 01:20:00

Tool Information

Drill Pipe:	Length: 3303.00 ft	Diameter: 3.80 inches	Volume: 46.33 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.76 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 46.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3298.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.14 ft			
Tool Length:	87.14 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			3283.00	
Hydraulic tool	5.00			3288.00	
Top Packer	5.00			3293.00	
Packer	5.00			3298.00	20.00 Bottom Of Top Packer
Anchor	5.00			3303.00	
Change Over Sub	0.75			3303.75	
Drill Pipe	30.64			3334.39	
Change Over Sub	0.75			3335.14	
Anchor	25.00			3360.14	
Recorder	0.00	9119	Inside	3360.14	
Recorder	0.00	9139	Outside	3360.14	
Bullnose	5.00			3365.14	67.14 Anchor Tool

Total Tool Length: 87.14



DRILL STEM TEST REPORT

FLUID SUMMARY

MILLER BECKER ENTERPRISES L.L.C.

28-15S-15W RUSSELL

100 SOUTH MAIN STREET
RUSSELL, KANSAS 67665

DUMBLER 1-28

Job Ticket: 01206

DST#: 2

ATTN: HERB DIENES

Test Start: 2015.12.09 @ 01:20:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 9.20 in³
Resistivity: ohm.m
Salinity: 8000.00 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
8.00	drilling mud	0.112

Total Length: 8.00 ft Total Volume: 0.112 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

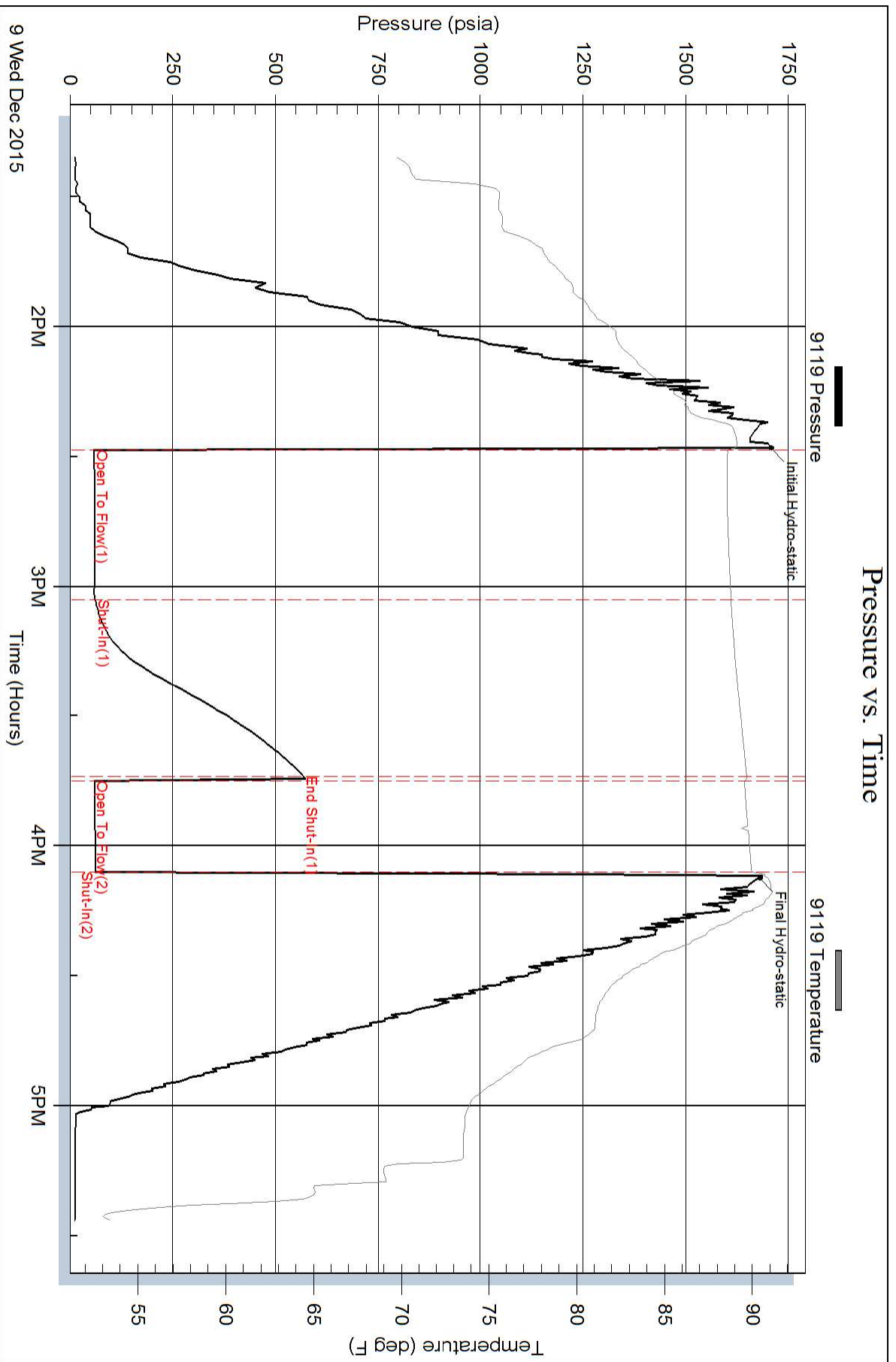
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

