

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
--	---

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
---	--	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	DARYL 1-18
Doc ID	1401941

All Electric Logs Run

Dual Induction
Compensated Neutron
Micro
Sonic



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 664

Cell 785-324-1041

Date	2-28-18	Sec.	18	Twp.	18	Range	14	County	Barton	State	Ks	On Location		Finish	4:45 PM
								Location 281 + 4 Jct, 35 to 90th Rd, 3 1/2 W							

Lease	Daryl		Well No.	1-18	Owner	S/Into
Contractor	Sterling		#4	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					
Hole Size	12 1/4"	T.D.	958'	Charge To	Shelby Resources	
Csg.	8 5/8"	Depth	953.09'	Street		
Tbg. Size			Depth	City State		
Tool			Depth	The above was done to satisfaction and supervision of owner agent or contractor.		
Cement Left in Csg.	42.80'	Shoe Joint	42.80'	Cement Amount Ordered 350 60/40 4% CC 3% Gel		
Meas Line	Displace		58 BLS			

**EQUIPMENT**

Pumptrk	18	No.	Cementer		Common	210
			Helper	Travis	Poz. Mix	140
Bulktrk	13	No.	Driver	Glenn	Gel.	7
			Driver		Calcium	15
Bulktrk	p.u.	No.	Driver	Rick		

**JOB SERVICES & REMARKS**

Remarks:	Cement did Circulate		Hulls
Rat Hole			Salt
Mouse Hole			Flowseal
Centralizers			Kol-Seal
Baskets			Mud CLR 48
D/V or Port Collar			CFL-117 or CD110 CAF 38
			Sand
			Handling 372
			Mileage

**FLOAT EQUIPMENT**

Guide Shoe	1 Slip-on
Centralizer	Baffle plate
Baskets	Rubber plug
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Long Surface
Mileage	25

Signature	Terry S. Salage	Tax	
		Discount	
		Total Charge	

# 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. 667

Date	3-4-18	Sec.	18	Twp.	18	Range	14	County	Barton	State	Ks	On Location		Finish	8:30PM
------	--------	------	----	------	----	-------	----	--------	--------	-------	----	-------------	--	--------	--------

Location 281 + 4 Sec, 35, 3 1/2 W, 5 1/4 into

Lease	Daryl	Well No.	1-18	Owner	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.
Contractor	Sterling 4				
Type Job	Plug				
Hole Size	7" 1/8"	T.D.	3600'	Charge To	Shelby Resources
Csg.		Depth		Street	
Tbg. Size	4 1/2" D.P.	Depth	3490'	City	State
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered 245 60/40 4% Gel 1/4 # Flow Seal	

Meas Line Displace H2O/mud

**EQUIPMENT**

Pumptrk	17	No.	Cementer	Craig	Common	147
			Helper		Poz. Mix	98
Bulktrk	15	No.	Driver	David	Gel.	9
			Driver		Calcium	
Bulktrk	p.m.	No.	Driver	Rick		

**JOB SERVICES & REMARKS**

Remarks:	3490' - 505x	Hulls	
Rat Hole	1000' - 505x	Salt	
Mouse Hole	400' - 905x	Flowseal	60#
Centralizers	40' - 105x w/ plug	Kol-Seal	
Baskets	Rat hole w/ 305x	Mud CLR 48	
D/V or Port Collar	Mouse hole w/ 155x	CFL-117 or CD110 CAF 38	
		Sand	
		Handling	254
		Mileage	

Cement did Circulate

**FLOAT EQUIPMENT**

Guide Shoe	Dry hole plug
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge Plug  
Mileage 21

X Signature *George A. Salazar*

Tax  
Discount  
Total Charge



## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LL:C**

13949 W. Colfaxbldg 1 ste 12  
Lakewood Colorado 80401

ATTN: Jeremy Swartz

**Daryl #1-18**

**18-18s-14w Barton**

Start Date: 2018.03.03 @ 01:16:00

End Date: 2018.03.03 @ 08:16:00

Job Ticket #: 01109                      DST #: 1

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

Printed: 2018.03.03 @ 08:47:45



# DRILL STEM TEST REPORT

Shelby Resources LL:C

**18-18s-14w Barton**

13949 W. Colfax bldg 1 ste 12  
Lakewood Colorado 80401

**Daryl #1-18**

Job Ticket: 01109

**DST#: 1**

ATTN: Jeremy Swartz

Test Start: 2018.03.03 @ 01:16:00

## GENERAL INFORMATION:

Formation: **Lansing "A & B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:56:00

Time Test Ended: 08:16:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig3238

Unit No: 1

**Interval: 3238.00 ft (KB) To 3284.00 ft (KB) (TVD)**

Reference Elevations: 1942.00 ft (KB)

Total Depth: 3284.00 ft (KB) (TVD)

1931.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 9139 Inside**

Press@RunDepth: 980.98 psig @ 3279.36 ft (KB)

Capacity: 5000.00 psig

Start Date: 2018.03.03

End Date: 2018.03.03

Last Calib.: 1899.12.30

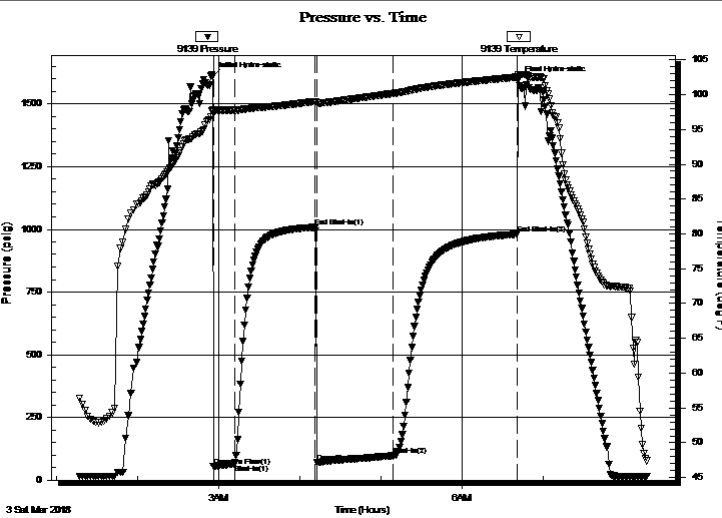
Start Time: 01:16:00

End Time: 08:17:30

Time On Btm: 2018.03.03 @ 02:55:30

Time Off Btm: 2018.03.03 @ 06:42:00

**TEST COMMENT:** 1st opening 15 minutes very weak building blow built to 1 inch into the water  
1st shut-in 60 minutes no blow back  
2nd opening 60 minutes very weak building blow built to 3 1/2 inches into the water  
2nd shut-in 90 minutes no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1608.39	97.87	Initial Hydro-static
1	54.33	97.53	Open To Flow (1)
16	64.72	97.75	Shut-In(1)
76	1008.64	99.03	End Shut-In(1)
77	71.11	98.77	Open To Flow (2)
134	97.72	100.16	Shut-In(2)
226	980.98	102.53	End Shut-In(2)
227	1592.23	102.90	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	MJUDDY WATER 70%WATER30%MUD	0.44

## Gas Rates

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





# DRILL STEM TEST REPORT

Shelby Resources LL:C

**18-18s-14w Barton**

13949 W. Colfax bldg 1 ste 12  
Lakewood Colorado 80401

**Daryl #1-18**

Job Ticket: 01109

**DST#: 1**

ATTN: Jeremy Swartz

Test Start: 2018.03.03 @ 01:16:00

## GENERAL INFORMATION:

Formation: **Lansing "A & B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:56:00

Time Test Ended: 08:16:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig3238

Unit No: 1

**Interval: 3238.00 ft (KB) To 3284.00 ft (KB) (TVD)**

Reference Elevations: 1942.00 ft (KB)

Total Depth: 3284.00 ft (KB) (TVD)

1931.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 3139 Outside**

Press@RunDepth: 991.01 psig @ 3279.36 ft (KB)

Capacity: 5000.00 psig

Start Date: 2018.03.03

End Date: 2018.03.03

Last Calib.: 1899.12.30

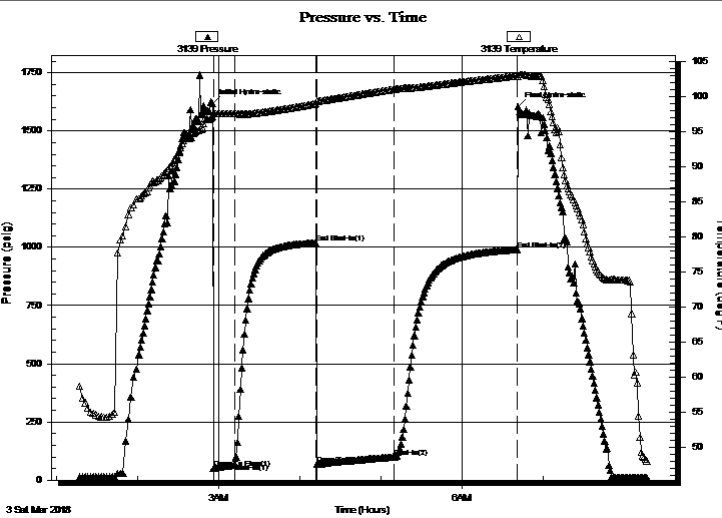
Start Time: 01:16:00

End Time: 08:17:30

Time On Btm: 2018.03.03 @ 02:55:30

Time Off Btm: 2018.03.03 @ 06:42:00

**TEST COMMENT:** 1st opening 15 minutes very weak building blow built to 1 inch into the water  
1st shut-in 60 minutes no blow back  
2nd opening 60 minutes very weak building blow built to 3 1/2 inches into the water  
2nd shut-in 90 minutes no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1617.21	97.07	Initial Hydro-static
1	52.14	97.49	Open To Flow (1)
17	70.94	97.56	Shut-In(1)
77	1018.97	98.92	End Shut-In(1)
77	69.55	99.29	Open To Flow (2)
135	99.85	100.99	Shut-In(2)
226	991.01	102.88	End Shut-In(2)
227	1605.62	102.79	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	MJUDDY WATER 70%WATER30%MUD	0.44

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shelby Resources LL:C

**18-18s-14w Barton**

13949 W. Colfax bldg 1 ste 12  
Lakewood Colorado 80401

**Daryl #1-18**

Job Ticket: 01109

**DST#: 1**

ATTN: Jeremy Swartz

Test Start: 2018.03.03 @ 01:16:00

## Tool Information

Drill Pipe:	Length: 3028.00 ft	Diameter: 3.80 inches	Volume: 42.47 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: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 43.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3238.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.36 ft			
Tool Length:	76.36 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			3213.00	
Hydraulic tool	5.00			3218.00	
Jars	5.00			3223.00	
Safety Joint	5.00			3228.00	
Packer	5.00			3233.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	3238.00	
Anchor	3.00			3241.00	
Change Over Sub	0.75			3241.75	
Drill Pipe	31.86			3273.61	
Change Over Sub	0.75		Inside	3274.36	
Anchor	5.00			3279.36	
Recorder	0.00	9139	Inside	3279.36	
Recorder	0.00	3139	Outside	3279.36	
Bullnose	5.00			3284.36	46.36 Bottom Packers & Anchor

**Total Tool Length: 76.36**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shelby Resources LL:C

**18-18s-14w Barton**

13949 W. Colfax bldg 1 ste 12  
Lakewood Colorado 80401

**Daryl #1-18**

Job Ticket: 01109

**DST#: 1**

ATTN: Jeremy Swartz

Test Start: 2018.03.03 @ 01:16:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 49.00 sec/qt  
Water Loss: 8.00 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 2500.00 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
90.00	MUDDY WATER 70%WATER30%MUD	0.443

Total Length: 90.00 ft      Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

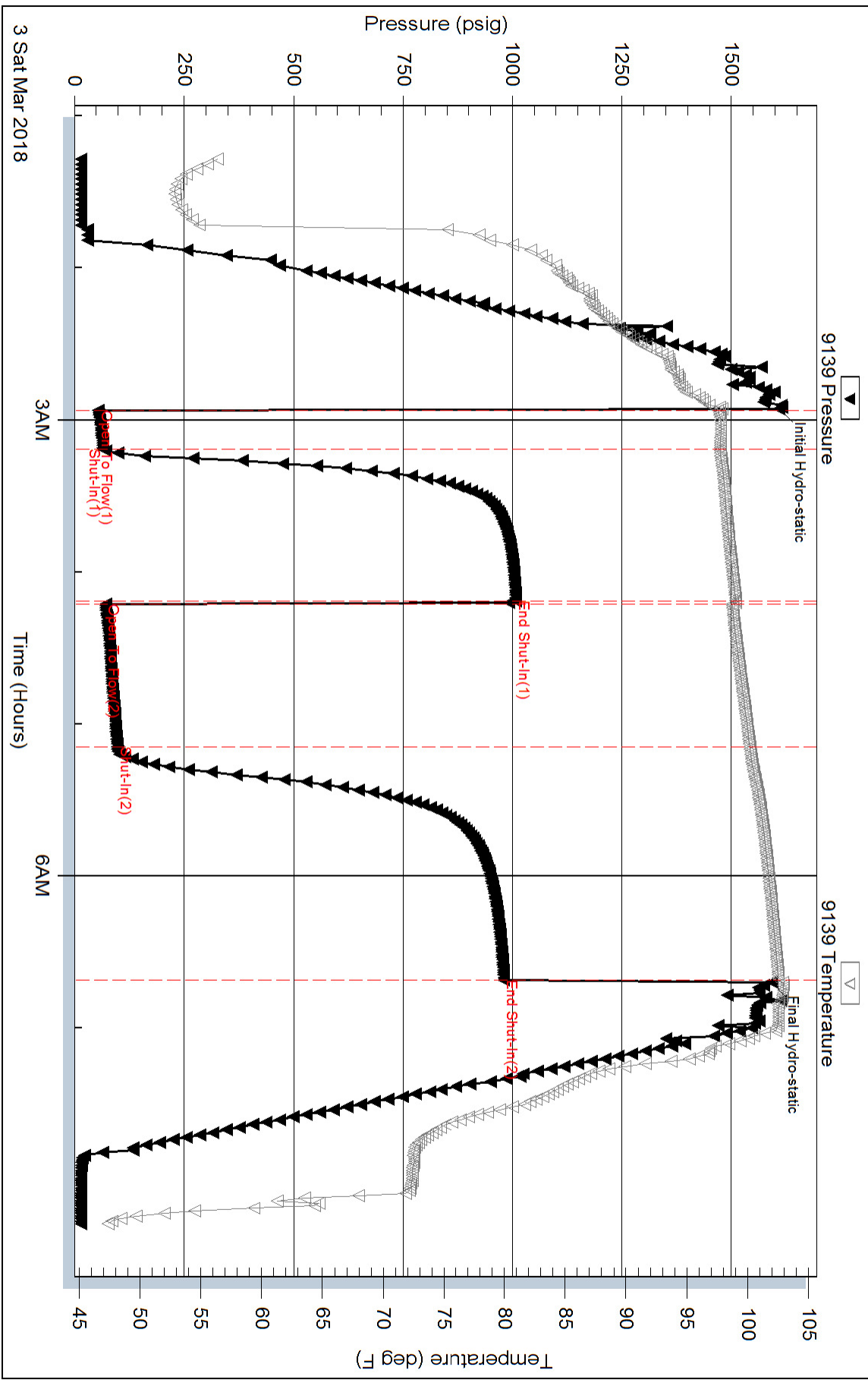
Serial #:

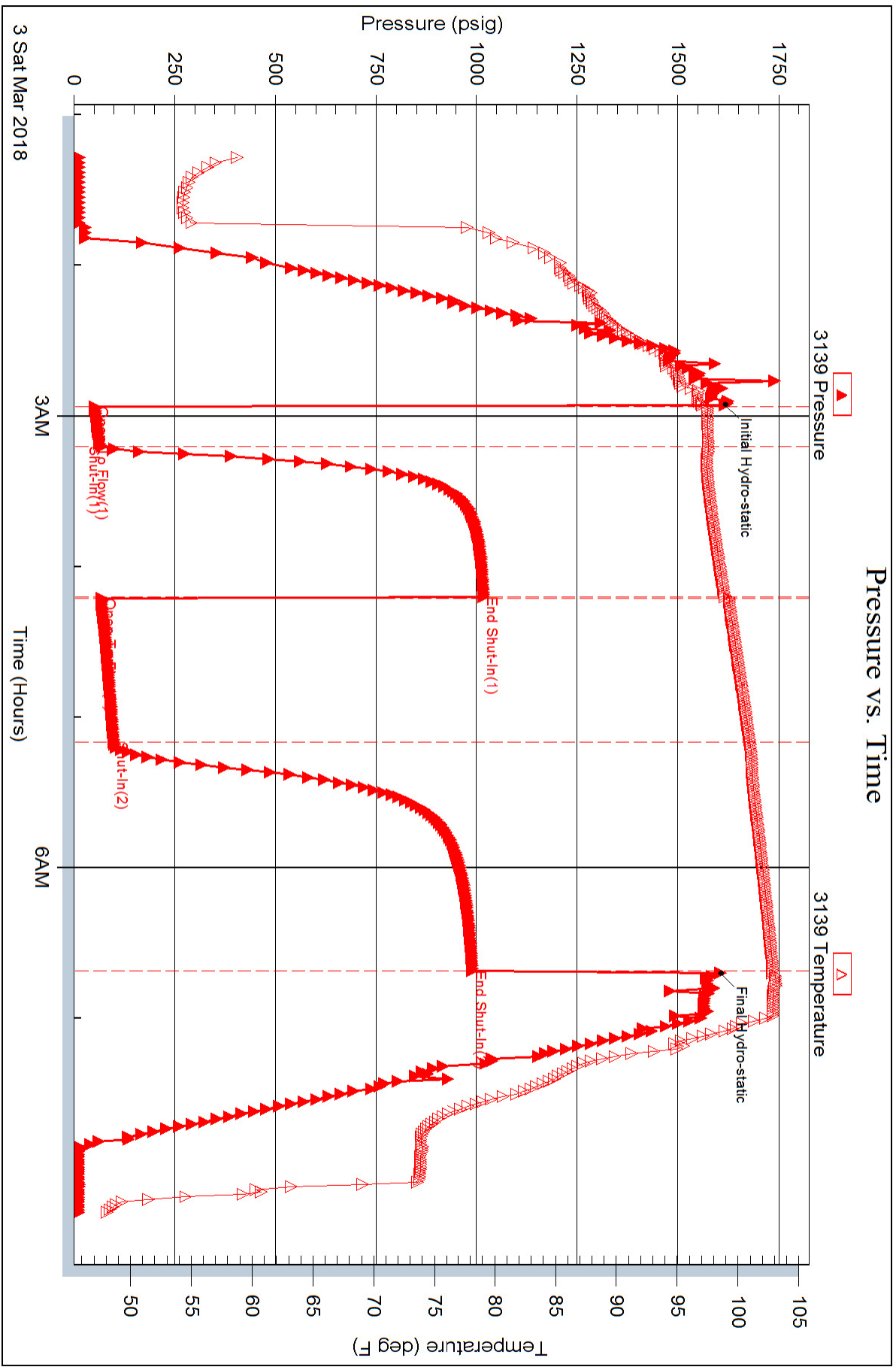
Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time







Scale 1:240 Imperial

Well Name: Daryl #1-18  
 Surface Location: 2073' FNL, 1620' FWL, Sec. 18-18S-14W  
 Bottom Location:  
 API: 15-009-26199-0000  
 License Number:  
 Spud Date: 2/27/2018 Time: 7:00 PM  
 Region: Barton County  
 Drilling Completed: 3/4/2018 Time: 5:00 AM  
 Surface Coordinates:  
 Bottom Hole Coordinates:  
 Ground Elevation: 1931.00ft  
 K.B. Elevation: 1942.00ft  
 Logged Interval: 2800.00ft To: 3600.00ft  
 Total Depth: 3600.00ft  
 Formation: Lansing Kansas City  
 Drilling Fluid Type: Chemical/Fresh Water Gel

**OPERATOR**

Company: Shelby Resources, LLC  
 Address: 13949 W Colfax Ave., Bldg 1, Ste 120  
 Lakewood, CO 80401  
 Contact Geologist: Janine Sturdavant  
 Contact Phone Nbr: 303-907-2209 / 720-274-4682  
 Well Name: Daryl #1-18  
 Location: 2073' FNL, 1620' FWL, Sec. 18-18S-14W  
 API: 15-009-26199-0000  
 Pool: Field: Wildcat  
 State: Kansas Country: USA

**LOGGED BY**



Company: Shelby Resources, LLC  
 Address: 13949 W Colfax Ave., Bldg 1, Ste 120  
 Lakewood, CO 80401  
 Phone Nbr: 203-671-6034  
 Logged By: Geologist Name: Jeremy Schwartz

**NOTES**

The Shelby Resources, LLC Daryl #1-18 was drilled to a total depth of 3600', bottoming in the Arbuckle. A TookeDaq gas detector was employed in the drilling of said well.

1 DST was conducted in the Lansing-Kansas City during the drilling of this well. The DST report can be found at the bottom of this log.

Due to negative DST results, lack of sample shows, gas kicks, and log analysis it was determined by all parties involved to plug and abandon the well. The dry samples were saved and will be available for further review at the Kansas Geological Society Well Sample Library, located in Wichita, KS.

Respectfully Submitted,  
Jeremy Schwartz  
Geologist

**CONTRACTOR**

Contractor: Sterling Drilling Co

Rig #: 4  
 Rig Type: mud rotary  
 Spud Date: 2/27/2018  
 TD Date: 3/4/2018  
 Rig Release:

Time: 7:00 PM  
 Time: 5:00 AM  
 Time:






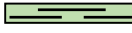

### ELEVATIONS

K.B. Elevation: 1942.00ft      Ground Elevation: 1931.00ft  
 K.B. to Ground: 11.00ft

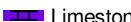

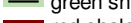
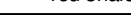
DATE	DEPTH	ACTIVITY
Friday, March 02, 2018	3055'	Geologist Jeremy Schwartz on location @ 1015hrs, ~3055', drlg ahead through
	3235'	Heebner, Toronto, Douglas Shale, Brown Lime, CFS @ 3235', drop survey, strap out,
		Conduct Bit Trip, successful bit trip, resume drlg ahead through Lansing,
	3284'	CFS @ 3284', conduct DST #1 in the Lansing "A-B",
Saturday, March 03, 2018	3284'	Successful test, resume drlg ahead through Lansing,
	3506'	CFS @ 3506' resume drlg through Arbuckle, drill ahead to TD @ 3600'
	3600'	TD of 3600' reached @ 0500hrs, CTCH 1 hour, drop survey, trip out of hole for logs
		Conduct logging operations, logging operations complete @ 0945hrs
		Geologist Jeremy Schwartz off location @ 1230hrs

FORMATION	OIL - P&A																D&A			
	DARYL #1-18				SCHNEIDER UNIT #1-18				PETRO-MARK EXPLORATION				ICER ADDIS				LARRY STEPHENSON			
	SE-SW-SE-NE 18-18S-14W				NW-NW-SE 18-18S-14W				HELEN SCHNEIDER #1				SCHNEIDER #1				NE-SE-NW 18-18S-14W			
	1942		1948		1932		1936		1935		1935		1935		1935		1935			
LOG TOPS	SAMPLE TOPS	COMP. CARD	LOG	SAMPL.	COMP. CARD	LOG	SAMPL.	COMP. CARD	LOG	SAMPL.	COMP. CARD	LOG	SAMPL.	COMP. CARD	LOG	SAMPL.	COMP. CARD	LOG	SAMPL.	
DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	
ANHYDRITE TOP	955	987	952	990	944	1004	- 17	- 14	928	1004	- 17	- 14	939	997	- 10	- 7	942	993	- 6	- 3
BASE	979	963	980	962	970	978	- 15	- 16	956	976	- 13	- 14	969	967	- 4	- 5	970	965	- 2	- 3
TOPEKA	2946	-1004	2944	-1002	2944	-996	- 8	- 6	2934	-1002	- 2	+ 0	2936	-1000	- 4	- 2				
KING HILL SHALE	3012	-1070	3013	-1071	3011	-1063	- 7	- 8	3002	-1070	+ 0	- 1	3002	-1066	- 4	- 5				
QUEEN HILL SHALE	3074	-1132	3075	-1133	3073	-1125	- 7	- 8	3064	-1132	+ 0	- 1	3066	-1130	- 2	- 3				
HEEBNER SHALE	3164	-1222	3164	-1222	3157	-1209	- 13	- 13	3152	-1220	- 2	- 2	3152	-1216	- 6	- 6	3161	-1226	+ 4	+ 4
TORONTO	3176	-1234	3178	-1236	3171	-1223	- 11	- 13	3164	-1232	- 2	- 4	3166	-1230	- 4	- 6	3176	-1241	+ 7	+ 5
DOUGLAS SHALE	3191	-1249	3192	-1250	3185	-1237	- 12	- 13	3180	-1248	- 1	- 2	3180	-1244	- 5	- 6	3188	-1253	+ 4	+ 3
BROWN LIME	3231	-1289	3232	-1290	3229	-1281	- 8	- 9	3224	-1292	+ 3	+ 2	3223	-1287	- 2	- 3	3230	-1295	+ 6	+ 5
LKC	3238	-1296	3242	-1300	3237	-1289	- 7	- 11	3232	-1300	+ 4	+ 0	3232	-1296	+ 0	- 4	3237	-1302	+ 6	+ 2
LKCG POROSITY	3324	-1382	3325	-1383	3309	-1361	- 21	- 22	3303	-1371	- 11	- 12	3305	-1369	- 13	- 14				
MUNCIE CREEK	3381	-1439	3382	-1440	3366	-1418	- 21	- 22	3366	-1434	- 5	- 6	3363	-1427	- 12	- 13				
LKC H	3387	-1445	3388	-1446	3374	-1426	- 19	- 20	3374	-1442	- 3	- 4	3371	-1435	- 10	- 11				
BKC	3468	-1526	3468	-1526	3456	-1508	- 18	- 18	3454	-1522	- 4	- 4	3454	-1518	- 8	- 8	3468	-1533	+ 7	+ 7
ARBUCKLE	3507	-1565	3508	-1566	3495	-1547	- 18	- 19	3487	-1555	- 10	- 11	3496	-1560	- 5	- 6				
RTD			3600	-1658	3600	-1652		- 6	3497	-1565		- 93	3502	-1566		- 92	3500	-1565		- 93
LTD	3600	-1658			3602	-1654	- 4		3494	-1562	- 96		3500	-1564	- 94					










### ROCK TYPES

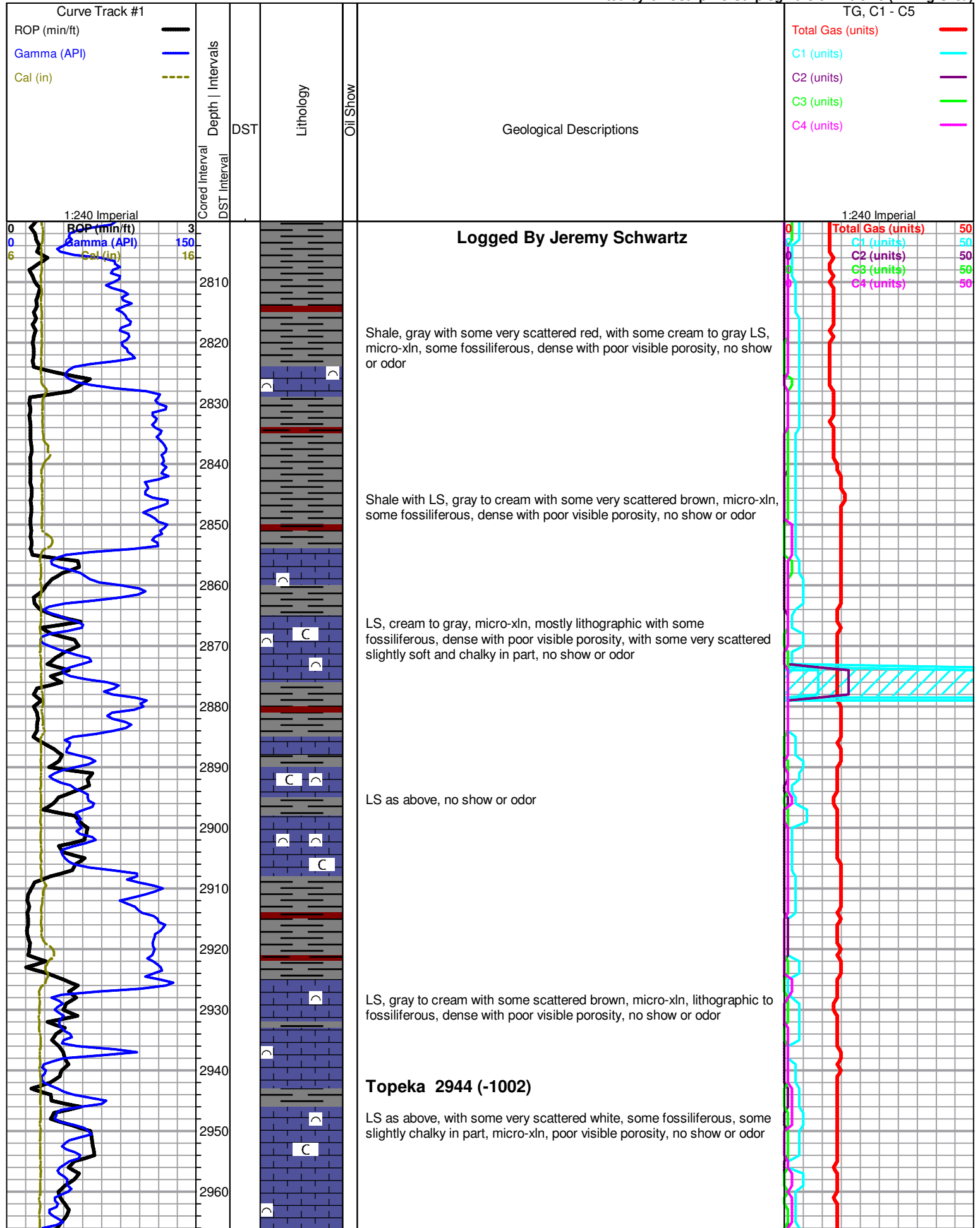
 Chtcong     
  Lmst fw<7     
  shale, gry     
  shale, red  
 Dolprim     
  shale, grn     
  Carbon Sh

### ACCESSORIES

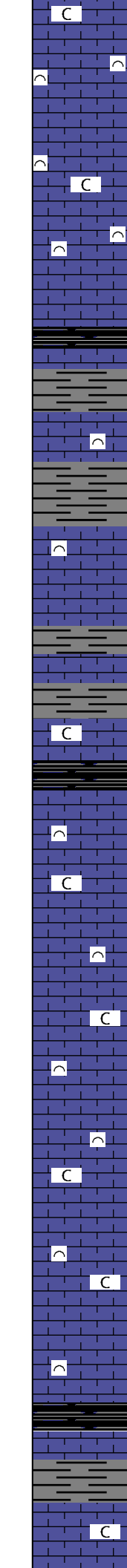
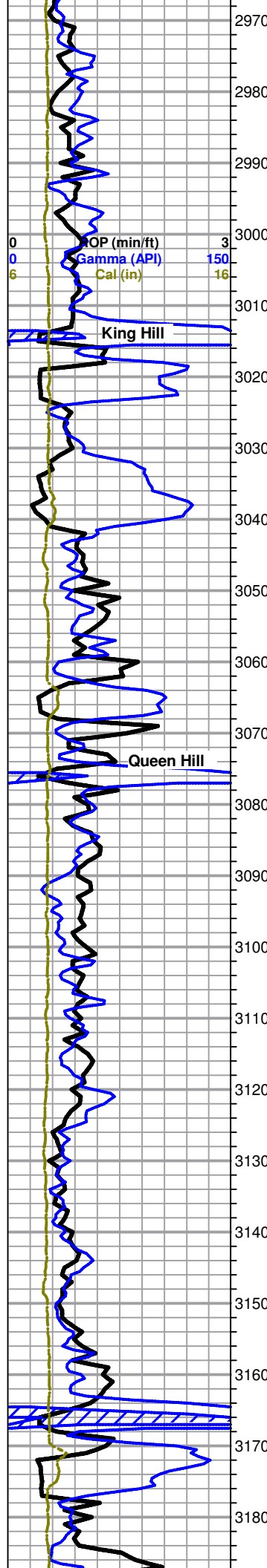
**MINERAL**      **FOSSIL**      **STRINGER**      **TEXTURE**  
 • Silty      ∪ Bioclastic or Fragmental       Limestone      C Chalky  
     Shale  
     green shale  
     red shale

### OTHER SYMBOLS

**MISC**      **DST**  
 Daily Report       DST Int  
 Digital Photo       DST alt  
 Document  
 Folder  
 Link  
 Vertical Log File  
 Horizontal Log File







LS as above, no show or odor

LS, mostly cream to light gray, micro-xln, lithographic to fossiliferous and dense with poor visible porosity, some scattered soft and chalky in part, no show or odor

LS as above, with some very scattered black shale, carbonaceous, no show or odor

LS, mostly cream to light gray, some fossiliferous, poor visible porosity, no show or odor

LS as above, no show or odor

LS as above, with few very scattered chips with some very scattered small vugs to very slightly vuggy edges with wet black free oil in and around porosity only, chips are chalky and soft in part, upon break free oil clings to chips, no fluor., or odor

LS, cream to light gray with some scattered white, micro-xln, some fossiliferous, mostly dense with poor visible porosity, some scattered soft and chalky in part, no show or odor

LS as above, no show or odor

LS, cream to white with some light gray, micro-xln, some fossiliferous, mostly dense with poor visible porosity, found 2 chips with few scattered small to medium vugs with heavy wet black free oil droplets in porosity, upon break SSFO (most free oil clings to chips), fair show free oil in porosity in matrix, no fluor., or odor

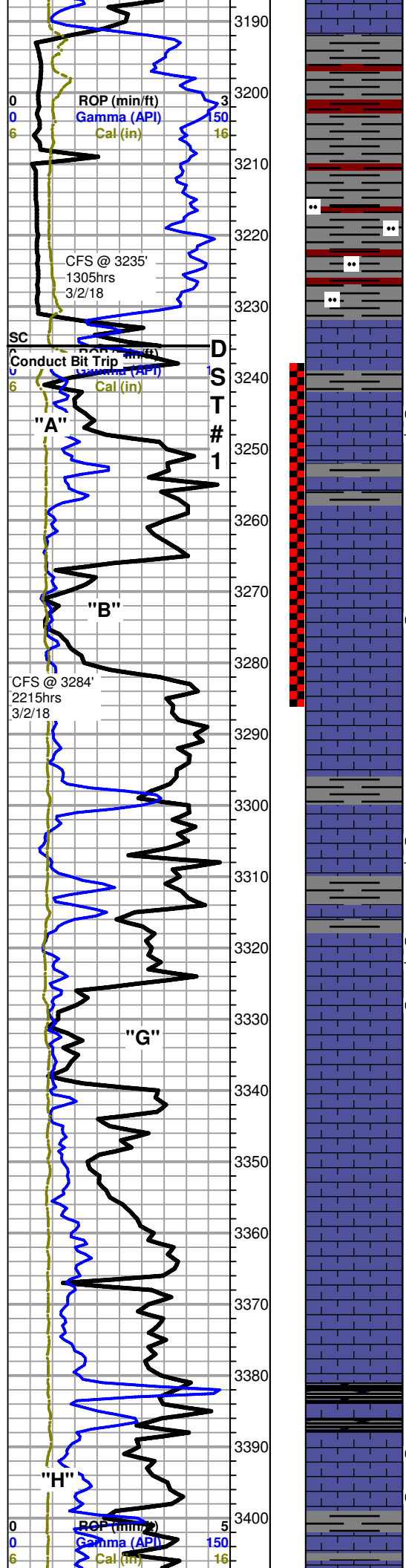
LS, mostly cream to light gray, micro-xln, some fossiliferous, mostly dense with poor visible porosity, with some scattered soft and chalky in part, no show or odor

**Heebner 3164 (-1222)**  
 Shale, black carbonaceous

**Toronto 3178 (-1236)**  
 LS, cream to light gray with influx white, micro-crypto xln, lithographic and soft and chalky in part, no show or odor

Total Gas (units)	50
C1 (units)	50
C2 (units)	50
C3 (units)	50
C4 (units)	50

Mud-Co	Mud chk
3142'	
3/2/18	
Vis: 49	Wt: 8.8
PV: 14	YP: 15
WL: 8.0	
Cake: 1/32	
pH: 11.0	
Ca: 20ppm	
CHL: 2,500ppm	
Sol: 3.4	LCM: Tr
DMC: \$3,445.07	
CMC: \$7,405.14	



### Douglas 3192 (-1250)

Shale, gray with some red, mostly soft and waxy, some blocky and dense

Shale as above, some silty

### Brown Lime 3232 (-1290)

LS, brown, micro-xln, fossiliferous and dense with no visible porosity, no show or odor

### Lansing 3242 (-1300)

Daryl #1-18 DST 1.jpg

LS, cream to gray, micro-xln, mostly lithographic and dense with poor visible porosity, with some very scattered (~5-10%) cream, oomoldic, some with scattered fair oomold porosity and scattered free oil droplets in some oomolds as well as several gas bubbles, some with very light stain in matrix as well, upon break most chips have at least SSFO, few with FSFO, very scattered dull fluor., fair odor

LS, mostly same as above with influx oomoldic, dense with mostly poor oomold porosity and no show, with some scattered dense oolitic, some scattered soft and chalky in part, poor fleeting odor

3284' 30" LS, mostly cream with some light gray and scattered white, micro-xln, some oomoldic with poor to fair oomold porosity, few chips with several large voids, barren, one chip with very scattered free oil droplets in oomolds, with some lithographic and soft and chalky in part, NSFO, no fluor., no odor

3284' 60" LS, cream to light gray, micro-xln, mostly oomoldic to lithographic, mostly poor visible porosity, some scattered oomoldic chips with fair porosity, barren, NSFO, no fluor., or odor

LS, cream to gray, micro-xln, mostly lithographic and dense with poor visible porosity, some scattered oomoldic with poor visible oomold porosity and barren, no show or odor

As above, with oomoldic mostly dropping out, slight influx light gray to cream, crypto-xln, lithographic with poor visible porosity, no show or odor

~3310' LS, cream to gray, micro-xln, lithographic and dense with poor visible porosity, no show, also with some very scattered (~5%) with some scattered re-crystallization and stain, few chips with several small vugs with stain in vugs only as well, few chips oolitic with poor inter-oolite stain, upon break chips have S-FSFO and some scattered gas bubbles in inter-oolite porosity, with some very scattered tan to gray chert, some oolitic, NSFO in tray, fair odor

~3320' Mostly same as above, with increase in shows (~15%), mostly scattered to very scattered stain and free oil droplets around areas of porosity, some chips slightly vuggy, most chips with S-FSFO upon break, some scattered chips with show of gas bubbles in vuggy areas, SSFO in tray, fair odor

~3330' As above, with shows dropping out, slight influx oomoldic, poor with some fair oomold porosity, mostly barren, few very scattered chips with scattered stain and free oil in oomolds only, NSFO in tray, fair fleeting odor

~3340' LS, cream to light gray, micro-xln, some lithographic and dense with poor visible porosity, some oomoldic with poor oomold porosity, no show or odor

As above, no show or odor

LS, cream, micro-xln, mostly lithographic and dense with poor visible porosity, some very scattered oomoldic, dense with poor oomold porosity, no show or odor

As above, no show odor

LS, cream, micro-xln, mostly lithographic and dense with poor visible porosity, barren, few very scattered chips with few scattered small vugs and very scattered stain in porosity only, one chip slightly vuggy with mostly saturated stain, NSFO, no fluor., poor fleeting odor

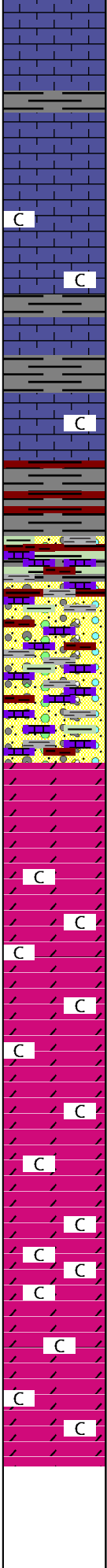
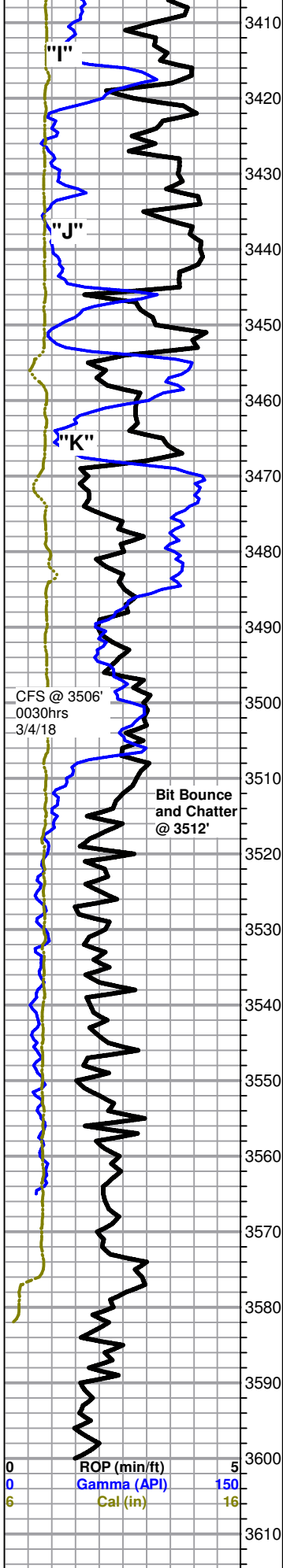
LS, cream to gray, micro-xln, mostly lithographic and dense with poor visible porosity, few chips with very scattered poor pinpoint porosity and very scattered stain in porosity only, few very scattered chips oolitic, one chip oomoldic with fair oomold porosity and stain and free oil in oomolds only, upon break FSFO, no fluor., poor fleeting odor

Total Gas (units) 50  
C1 (units) 50  
C2 (units) 50  
C3 (units) 50  
C4 (units) 50

Survey @ 3235' = 1/2deg  
Strap 1.48LTB

Mud-Co Mud chk  
3284'  
3/3/18  
Vis: 49 Wt: 9.1  
PV: 16 YP: 12  
WL: 8.0  
Cake:2/32  
pH: 11.0  
Ca: 20ppm  
CHL: 3,000ppm  
Sol: 5.6 LCM: Tr  
DMC: \$995.88  
CMC: \$8,401.82

Total Gas (units) 50  
C1 (units) 50  
C2 (units) 50



LS, cream to light gray, micro-xln, mostly lithographic and dense with poor visible porosity, no show or odor

LS, cream to gray, micro-xln, lithographic and dense with poor visible porosity, no show or odor

As above, with slight influx white, lithographic with poor visible porosity, some soft and chalky in part, no show or odor

LS, cream to gray with some white, micro-xln, mostly lithographic and dense with poor visible porosity, some scattered cream to white, crypto-xln and dense with poor visible porosity, no show or odor

As above, some soft and chalky in part, no show or odor

**BKC 3468 (-1526)**

LS, cream to light gray with some scattered white, micro-xln with some very scattered crypto-xln, lithographic with poor visible porosity, with some scattered gray and red shales and trace orange to white chert, no show or odor

As above, with influx gray, red, and trace green shale as well as some very scattered translucent to orange chert, no show or odor

3506' 45" cream to gray LS, micro-xln, lithographic and dense with poor visible porosity, with scattered red and gray with trace green shales as well as orange, white, and tan to gray chert, some oolitic, no show or odor

**Arbuckle 3508 (-1566)**

Conglomerate as above, with influx dolomite, white, micro-xln, mostly sub-rhombic and dense with poor visible porosity, some very scattered med-xln with scattered fair rhombic development, mostly poor visible porosity, few chips with very scattered flaky gilsonitic stain, no odor

Dolomite, white, micro-xln, mostly sucrosic to sub-rhombic and barren with poor visible porosity, fairly chalky, no odor

Dolomite as above, few very scattered sub-rhombic chips with scattered to very scattered flaky gilsonitic stain, upon break few chips with VSSFO (heavy black droplets), slightly chalky, pungent odor

Dolomite, white, micro-xln, mostly sucrosic to sub-rhombic and dense with poor visible porosity, slightly chalky, no show or odor

Dolomite as above, no show or odor

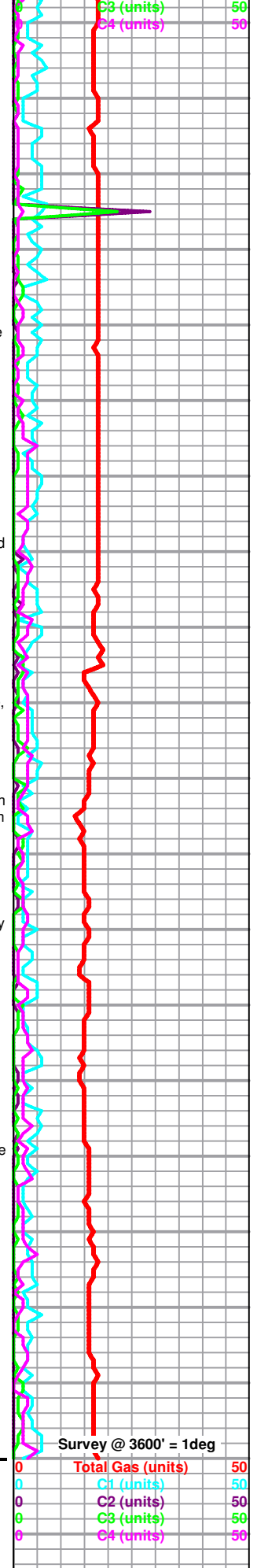
Dolomite, white, micro-xln, sucrosic to sub-rhombic and dense with poor visible porosity, slightly chalky, no show or odor

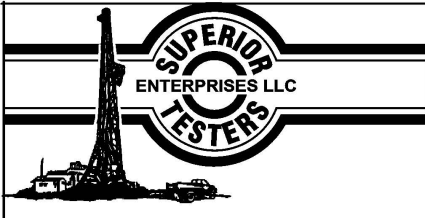
As above, slight influx med-xln sub-rhombic, fairly chalky, no show or odor

Dolomite, white, micro-xln, sucrosic to sub-rhombic with poor visible porosity, fairly chalky, no show or odor

Dolomite as above, fairly chalky, no show or odor

**Rotary TD 3600' @ 0500hrs 3/4/18**  
**Eli Wireline Services Logging TD @ 3600'**  
**Complete Logging Operations @ 0945hrs 3/4/18**  
**Geologist Jeremy Schwartz off location @ 1230hrs 3/4/18**





# DRILL STEM TEST REPORT

Shelby Resources LL:C  
 13949 W. Colfax bldg 1 ste 12  
 Lakewood Colorado 80401  
 ATTN: Jeremy Swartz

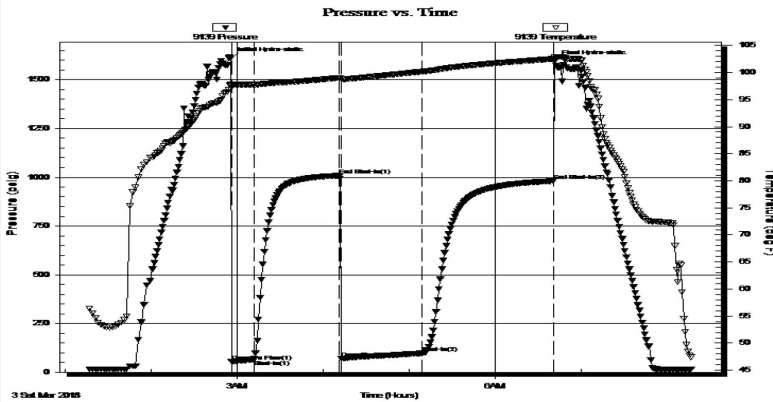
**18-18s-14w Barton**  
**Daryl #1-18**  
 Job Ticket: 01109 **DST#: 1**  
 Test Start: 2018.03.03 @ 01:16:00

**GENERAL INFORMATION:**

Formation: **Lansing "A & B"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 02:56:00 Tester: Gene Budig3238  
 Time Test Ended: 08:16:00 Unit No: 1  
**Interval: 3238.00 ft (KB) To 3284.00 ft (KB) (TVD)** Reference Elevations: 1942.00 ft (KB)  
 Total Depth: 3284.00 ft (KB) (TVD) 1931.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

**Serial #: 9139 Inside**  
 Press@RunDepth: 980.98 psig @ 3279.36 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2018.03.03 End Date: 2018.03.03 Last Calib.: 1899.12.30  
 Start Time: 01:16:00 End Time: 08:17:30 Time On Btm: 2018.03.03 @ 02:55:30  
 Time Off Btm: 2018.03.03 @ 06:42:00

**TEST COMMENT:** 1st opening 15 minutes very weak building blow built to 1 inch into the water  
 1st shut-in 60 minutes no blow back  
 2nd opening 60 minutes very weak building blow built to 3 1/2 inches into the water  
 2nd shut-in 90 minutes no blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1608.39	97.87	Initial Hydro-static
1	54.33	97.53	Open To Flow (1)
16	64.72	97.75	Shut-In(1)
76	1008.64	99.03	End Shut-In(1)
77	71.11	98.77	Open To Flow (2)
134	97.72	100.16	Shut-In(2)
226	980.98	102.53	End Shut-In(2)
227	1592.23	102.90	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
90.00	MJUDDY WATER 70%WATER30%MUD	0.44

**Gas Rates**

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