

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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

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

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

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	BlueRidge Petroleum Corporation
Well Name	LANNING #1-10
Doc ID	1486490

All Electric Logs Run

CND
DIL
Micro
Sonic



DRILL STEM TEST REPORT

Prepared For: **Blue Ridge Petroleum Corp**

PO Box 30545
Edmond OK 73003

ATTN: James Musgrove

Lanning #1-10

10-4s-32w Rawlins,KS

Start Date: 2019.12.19 @ 19:52:00

End Date: 2019.12.20 @ 03:44:39

Job Ticket #: 65643 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.12.24 @ 10:23:29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Blue Ridge Petroleum Corp

10-4s-32w Rawlins, KS

PO Box 30545
Edmond OK 73003

Lanning #1-10

Job Ticket: 65643

DST#: 1

ATTN: James Musgrove

Test Start: 2019.12.19 @ 19:52:00

GENERAL INFORMATION:

Formation: **Toronto - Lansing A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:40:50

Time Test Ended: 03:44:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Shawn Wheelbarger

Unit No: 76

Interval: 3870.00 ft (KB) To 3930.00 ft (KB) (TVD)

Reference Elevations: 2960.00 ft (KB)

Total Depth: 3930.00 ft (KB) (TVD)

2955.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8355 Outside

Press@RunDepth: 302.95 psig @ 3871.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.12.19 End Date: 2019.12.20

Last Calib.: 2019.12.20

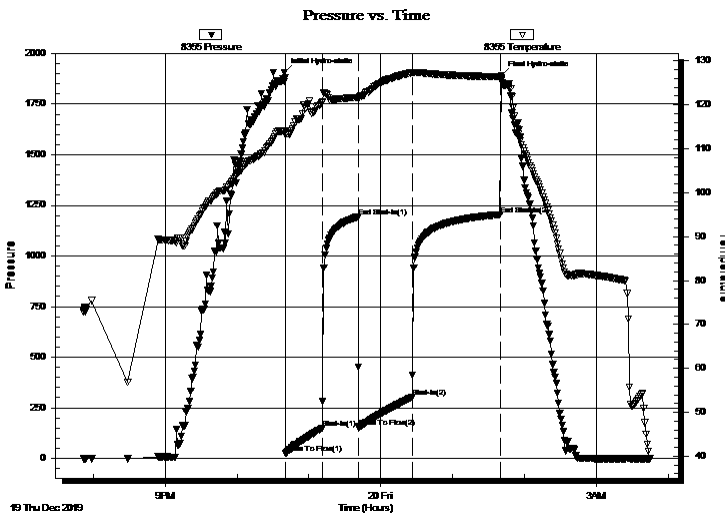
Start Time: 19:52:01 End Time: 03:44:40

Time On Btm: 2019.12.19 @ 22:39:50

Time Off Btm: 2019.12.20 @ 01:40:39

TEST COMMENT: 30-IF-2" Blow @ open BOB in 9 min 30 sec built to 26 1/4"
30-ISI-No blow back
45-FF-BOB in 17 min Blow built to 29 3/4"
60-FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1905.02	113.85	Initial Hydro-static
1	26.25	113.23	Open To Flow (1)
32	150.40	120.48	Shut-In(1)
62	1192.82	121.70	End Shut-In(1)
62	153.10	121.41	Open To Flow (2)
107	302.95	127.27	Shut-In(2)
180	1204.65	126.37	End Shut-In(2)
181	1891.83	125.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
378.00	SMCW w/ oil Spots 93%W, 7%M	5.30
252.00	SOSWM 1%O, 25%W, 74%M	3.53

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Blue Ridge Petroleum Corp

10-4s-32w Rawlins,KS

PO Box 30545
Edmond OK 73003

Lanning #1-10

Job Ticket: 65643

DST#: 1

ATTN: James Musgrove

Test Start: 2019.12.19 @ 19:52:00

Tool Information

Drill Pipe:	Length: 3874.00 ft	Diameter: 3.80 inches	Volume: 54.34 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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: 82000.00 lb
			<u>Total Volume: 54.34 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	3870.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3850.00	
Shut In Tool	5.00			3855.00	
Hydraulic tool	5.00		Inside	3860.00	
Packer	5.00			3865.00	21.00 Bottom Of Top Packer
Packer	5.00			3870.00	
Stubb	1.00			3871.00	
Recorder	0.00	8355	Outside	3871.00	
Recorder	0.00	8645	Inside	3871.00	
Perforations	22.00			3893.00	
Change Over Sub	1.00			3894.00	
Drill Pipe	32.00			3926.00	
Change Over Sub	1.00			3927.00	
Bullnose	3.00			3930.00	60.00 Bottom Packers & Anchor

Total Tool Length: 81.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Blue Ridge Petroleum Corp

10-4s-32w Rawlins,KS

PO Box 30545
Edmond OK 73003

Lanning #1-10

Job Ticket: 65643

DST#: 1

ATTN: James Musgrove

Test Start: 2019.12.19 @ 19:52:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

10000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
378.00	SMCW w / oil Spots 93%W, 7%M	5.302
252.00	SOSWM 1%O, 25%W, 74%M	3.535

Total Length: 630.00 ft Total Volume: 8.837 bbl

Num Fluid Samples: 0

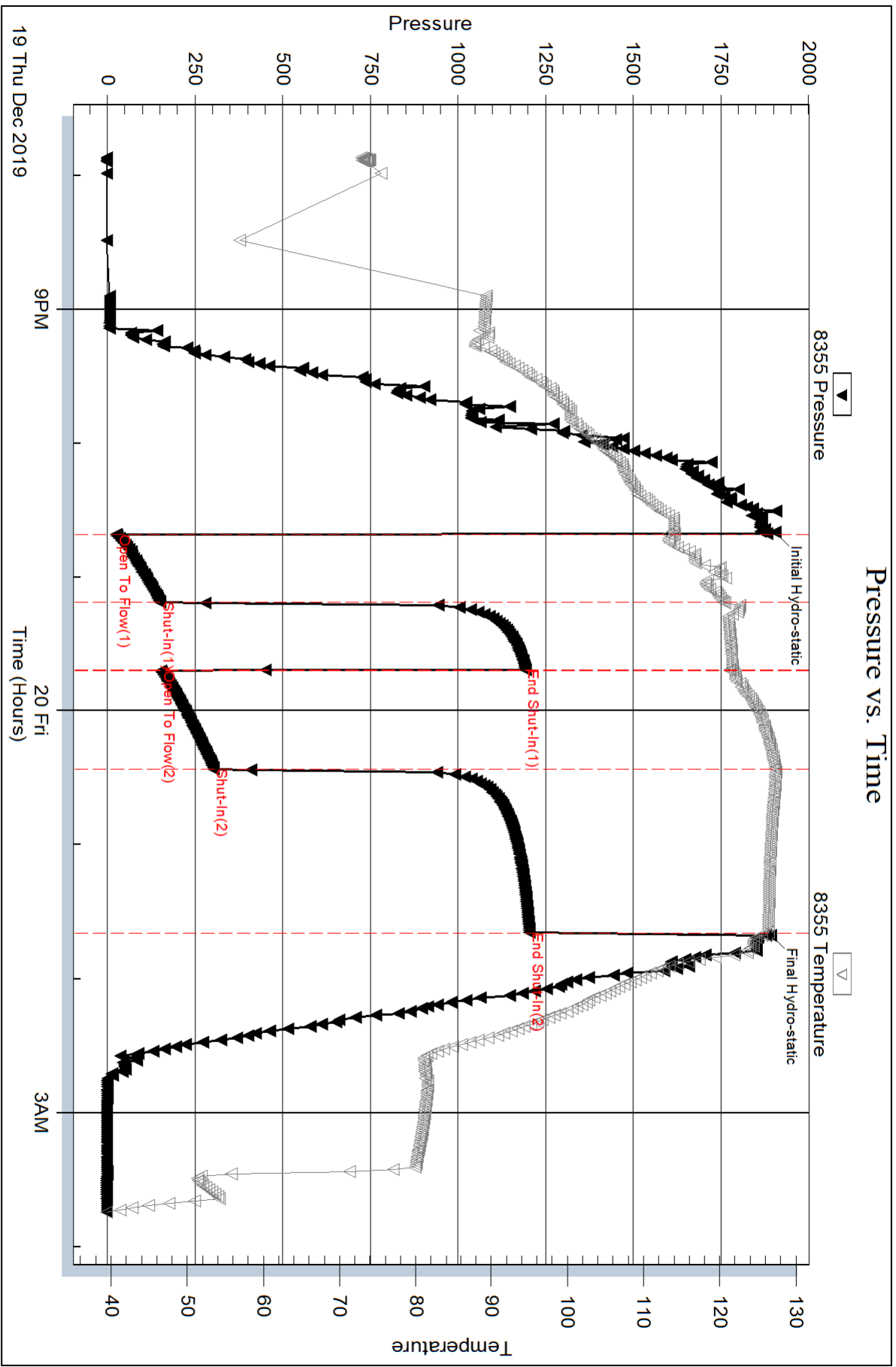
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW 1.457@28.1 DEG F Chlorides 10000 PPM



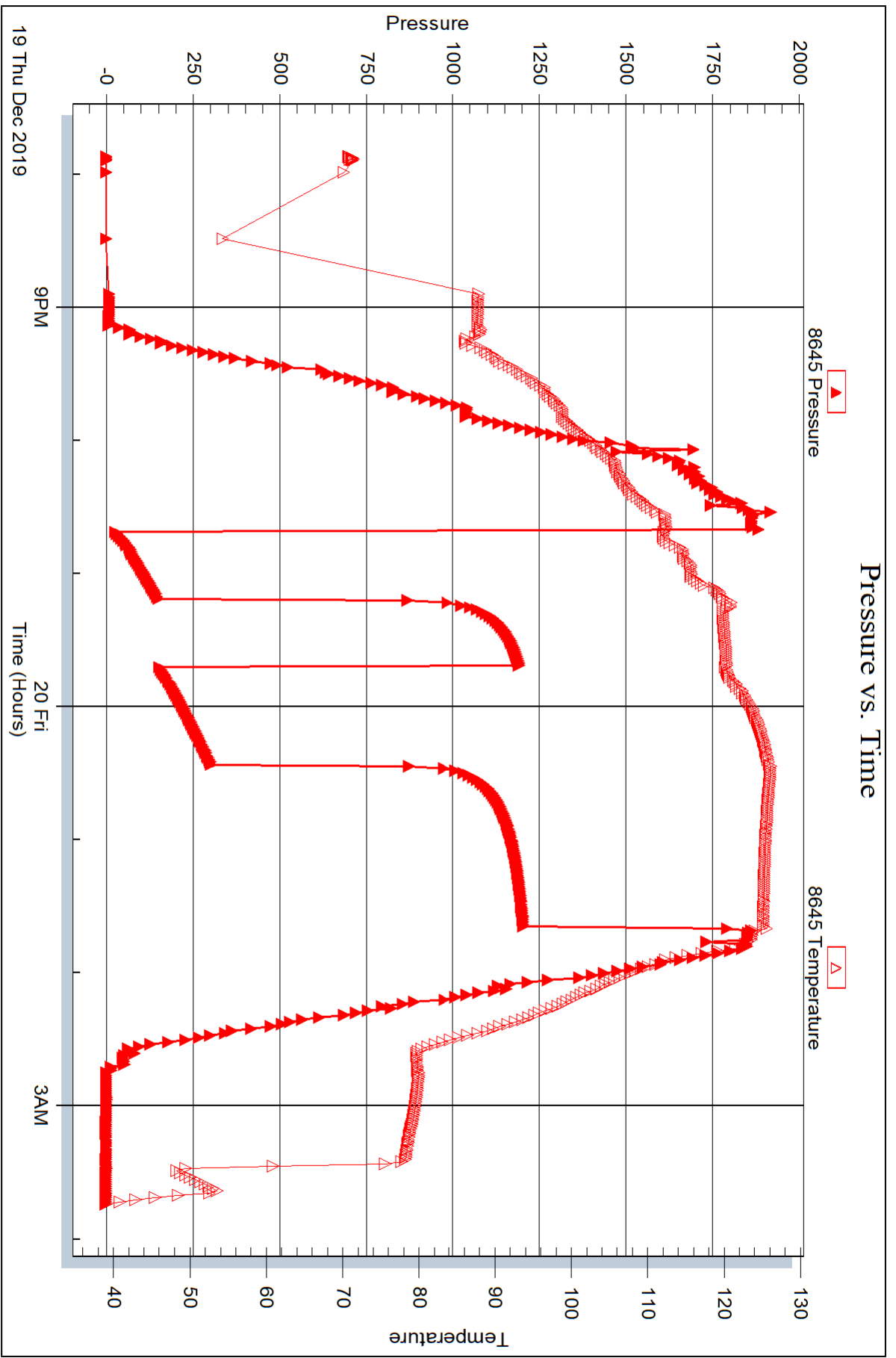
Serial #: 8645

Inside

Blue Ridge Petroleum Corp

Lanning #1-10

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 65643

Printed: 2019.12.24 @ 10:23:30



DRILL STEM TEST REPORT

Prepared For: **Blue Ridge Petroleum Corp**

PO Box 30545
Edmond OK 73003

ATTN: James Musgrove

Lanning #1-10

10-4s-32w Rawlins,KS

Start Date: 2019.12.20 @ 11:57:00

End Date: 2019.12.20 @ 18:30:39

Job Ticket #: 65644 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.12.24 @ 10:22:25



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Blue Ridge Petroleum Corp

10-4s-32w Rawlins,KS

PO Box 30545
Edmond OK 73003

Lanning #1-10

Job Ticket: 65644

DST#: 2

ATTN: James Musgrove

Test Start: 2019.12.20 @ 11:57:00

GENERAL INFORMATION:

Formation: **Lansing C - D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:05:00

Time Test Ended: 18:30:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Shawn Wheelbarger

Unit No: 76

Interval: 3931.00 ft (KB) To 3970.00 ft (KB) (TVD)

Reference Elevations: 2960.00 ft (KB)

Total Depth: 3970.00 ft (KB) (TVD)

2955.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8355 Outside

Press@RunDepth: 26.24 psig @ 3932.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.12.20 End Date: 2019.12.20

Last Calib.: 2019.12.20

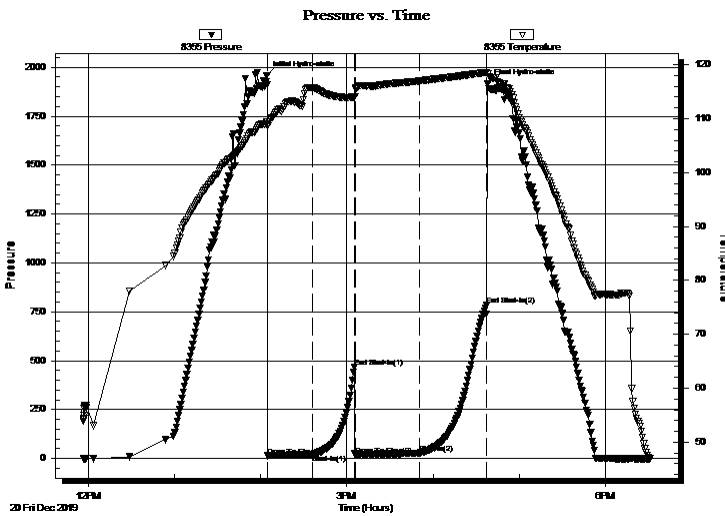
Start Time: 11:57:01 End Time: 18:30:40

Time On Btm: 2019.12.20 @ 14:04:20

Time Off Btm: 2019.12.20 @ 16:38:00

TEST COMMENT: 30-IF-Surface blow @ open built to 2 1/4"
30-ISI-No blow back
45-FF-Blow built to 1 1/2"
45-FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1956.12	109.36	Initial Hydro-static
1	13.16	108.68	Open To Flow (1)
32	19.33	115.79	Shut-In(1)
61	465.32	114.02	End Shut-In(1)
62	17.01	115.55	Open To Flow (2)
107	26.24	117.00	Shut-In(2)
153	781.89	118.58	End Shut-In(2)
154	1917.25	118.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
32.00	MO 84%O, 16%M	0.45
0.00	30' Gas in pipe	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Blue Ridge Petroleum Corp

10-4s-32w Rawlins,KS

PO Box 30545
Edmond OK 73003

Lanning #1-10

Job Ticket: 65644

DST#: 2

ATTN: James Musgrove

Test Start: 2019.12.20 @ 11:57:00

Tool Information

Drill Pipe:	Length: 3937.00 ft	Diameter: 3.80 inches	Volume: 55.23 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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:	80000.00 lb
			<u>Total Volume: 55.23 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	74000.00 lb
Depth to Top Packer:	3931.00 ft			Final	76000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	39.00 ft				
Tool Length:	60.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3911.00	
Shut In Tool	5.00			3916.00	
Hydraulic tool	5.00		Inside	3921.00	
Packer	5.00			3926.00	21.00 Bottom Of Top Packer
Packer	5.00			3931.00	
Packer - Shale	0.00			3931.00	
Stubb	1.00			3932.00	
Recorder	0.00	8355	Outside	3932.00	
Recorder	0.00	8645	Inside	3932.00	
Perforations	35.00			3967.00	
Bullnose	3.00			3970.00	39.00 Bottom Packers & Anchor

Total Tool Length: 60.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Blue Ridge Petroleum Corp

10-4s-32w Rawlins,KS

PO Box 30545
Edmond OK 73003

Lanning #1-10

Job Ticket: 65644

DST#: 2

ATTN: James Musgrove

Test Start: 2019.12.20 @ 11:57:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21.3 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
32.00	MO 84%O, 16%M	0.449
0.00	30' Gas in pipe	0.000

Total Length: 32.00 ft Total Volume: 0.449 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

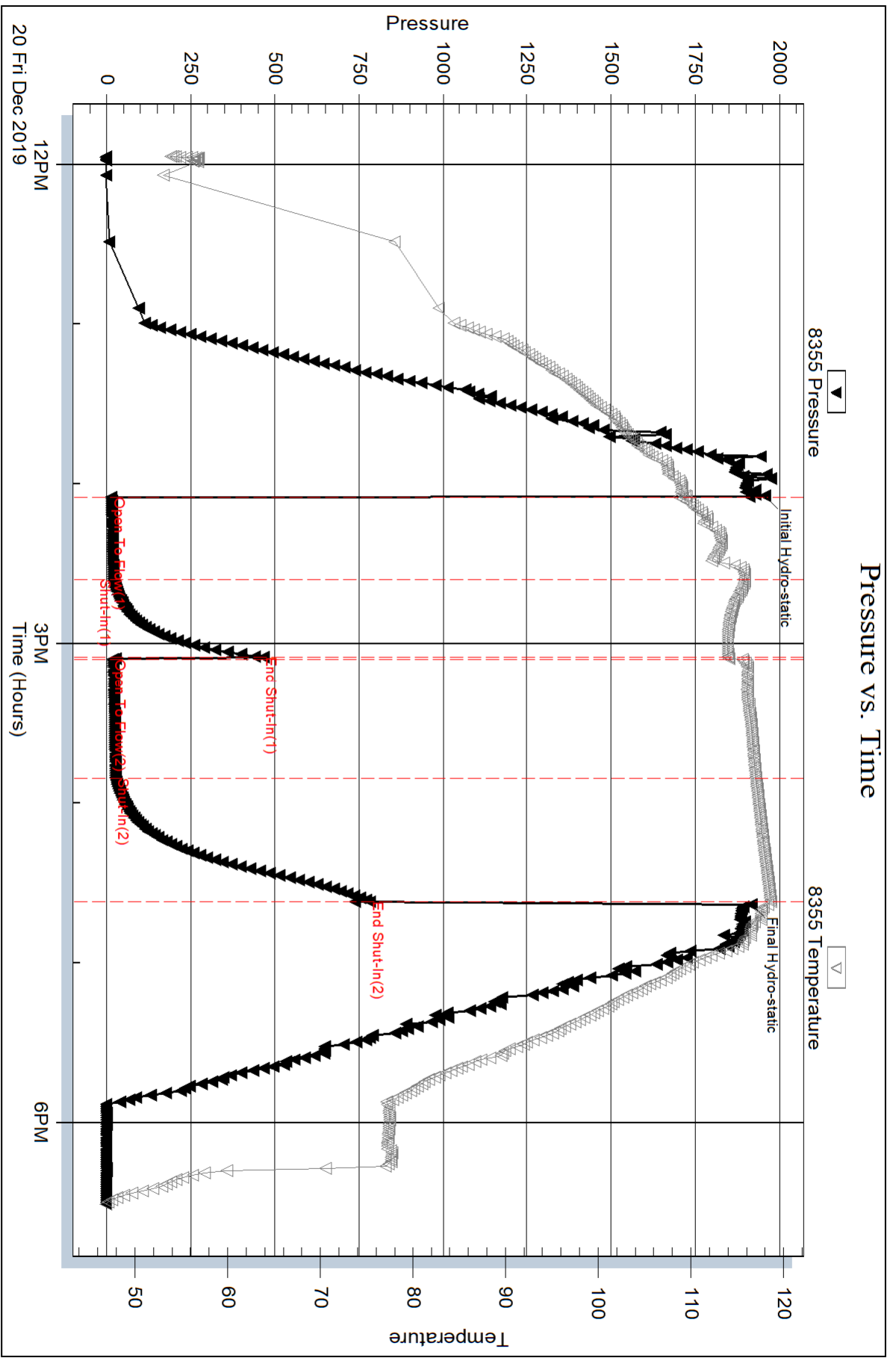
Recovery Comments: 23.3 @ 80 DEG F Adjusted to 21.3 DEG API

Serial #: 8355

Outside Blue Ridge Petroleum Corp

Lanning #1-10

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 65644

Printed: 2019.12.24 @ 10:22:27

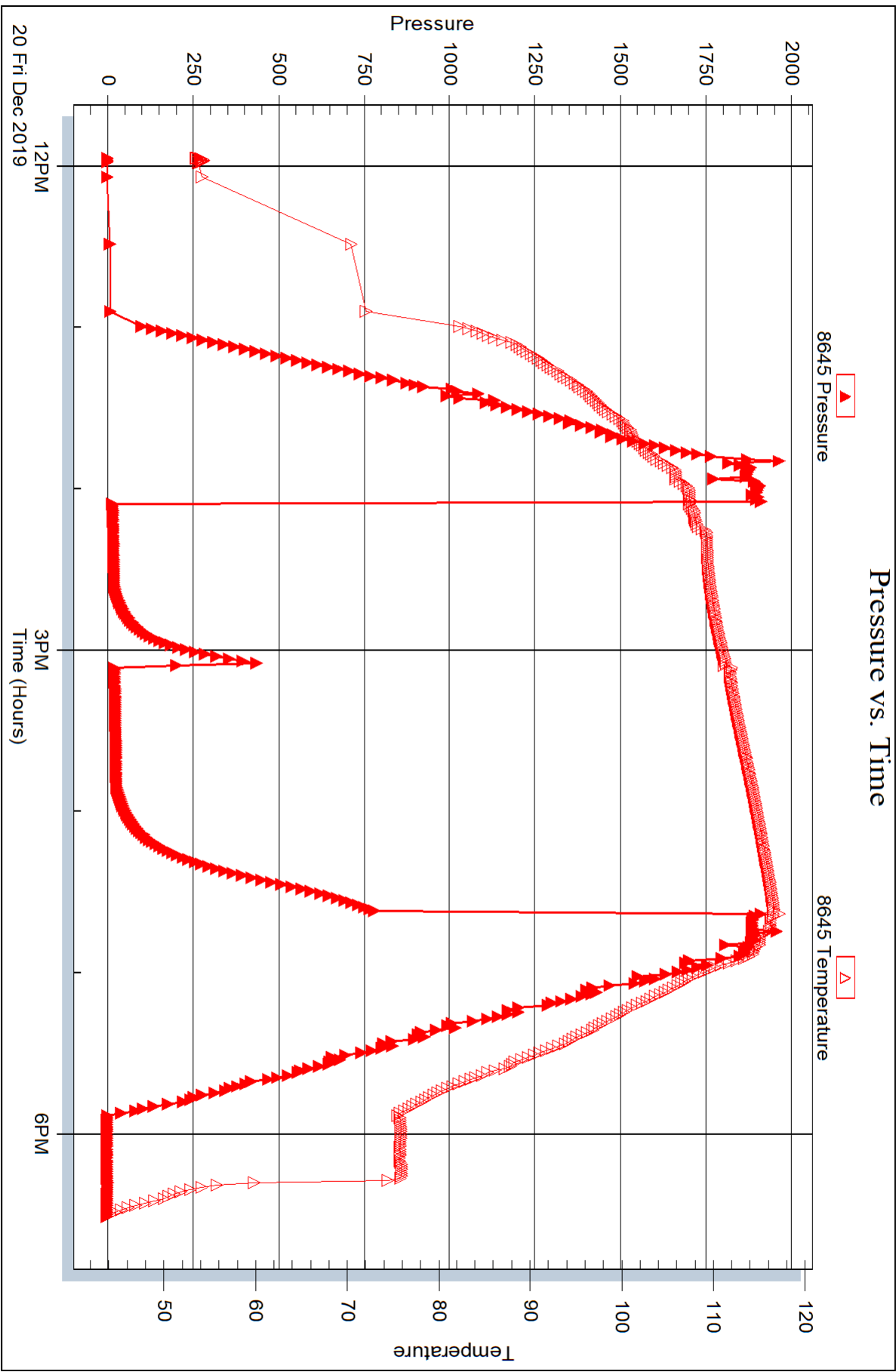
Serial #: 8645

Inside

Blue Ridge Petroleum Corp

Lanning #1-10

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Blue Ridge Petroleum Corp**

PO Box 30545
Edmond OK 73003

ATTN: James Musgrove

Lanning #1-10

10-4s-32w Rawlins,KS

Start Date: 2019.12.21 @ 05:00:00

End Date: 2019.12.21 @ 10:47:20

Job Ticket #: 65645 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.12.24 @ 10:21:37



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Blue Ridge Petroleum Corp

10-4s-32w Rawlins, KS

PO Box 30545
Edmond OK 73003

Lanning #1-10

Job Ticket: 65645

DST#: 3

ATTN: James Musgrove

Test Start: 2019.12.21 @ 05:00:00

GENERAL INFORMATION:

Formation: **LKC" E - G "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:02:50

Time Test Ended: 10:47:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 76

Interval: 3966.00 ft (KB) To 4021.00 ft (KB) (TVD)

Reference Elevations: 2960.00 ft (KB)

Total Depth: 4021.00 ft (KB) (TVD)

2955.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8645

Inside

Press@RunDepth: 22.80 psig @ 3967.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.12.21

End Date:

2019.12.21

Last Calib.:

2019.12.21

Start Time: 05:00:01

End Time:

10:47:20

Time On Btm:

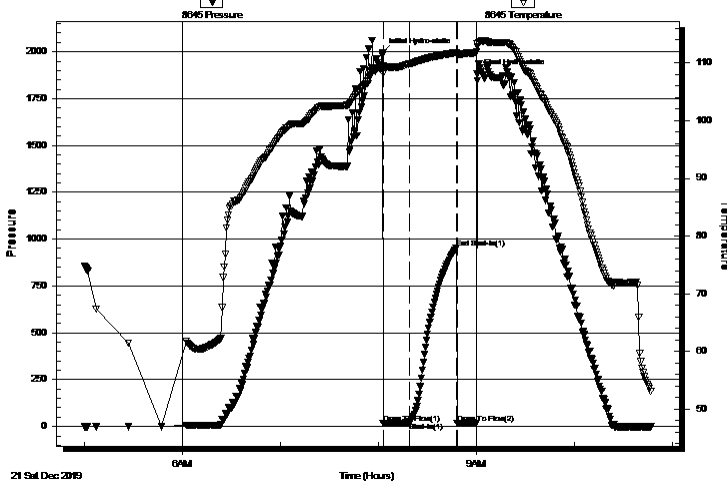
2019.12.21 @ 08:02:40

Time Off Btm:

2019.12.21 @ 09:00:30

TEST COMMENT: 15 IF - No blow , flushed tool, no blow
30 ISI - No return
10 FF - No blow , flushed tool, w eak surface blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1996.31	109.61	Initial Hydro-static
1	17.61	108.14	Open To Flow (1)
17	22.80	109.87	Shut-In(1)
46	953.60	111.83	End Shut-In(1)
46	18.12	111.27	Open To Flow (2)
58	1880.65	113.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w / oil spots 100%M	0.14

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Blue Ridge Petroleum Corp

10-4s-32w Rawlins,KS

PO Box 30545
Edmond OK 73003

Lanning #1-10

Job Ticket: 65645

DST#: 3

ATTN: James Musgrove

Test Start: 2019.12.21 @ 05:00:00

Tool Information

Drill Pipe:	Length: 3968.00 ft	Diameter: 3.80 inches	Volume: 55.66 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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: 90000.00 lb
			<u>Total Volume: 55.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	3966.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	76.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3946.00	
Shut In Tool	5.00			3951.00	
Hydraulic tool	5.00		Inside	3956.00	
Packer	5.00			3961.00	21.00 Bottom Of Top Packer
Packer	5.00			3966.00	
Stubb	1.00			3967.00	
Recorder	0.00	8355	Outside	3967.00	
Recorder	0.00	8645	Inside	3967.00	
Perforations	18.00			3985.00	
Change Over Sub	1.00			3986.00	
Drill Pipe	31.00			4017.00	
Change Over Sub	1.00			4018.00	
Bullnose	3.00			4021.00	55.00 Bottom Packers & Anchor

Total Tool Length: 76.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Blue Ridge Petroleum Corp

10-4s-32w Rawlins,KS

PO Box 30545
Edmond OK 73003

Lanning #1-10

Job Ticket: 65645

DST#: 3

ATTN: James Musgrove

Test Start: 2019.12.21 @ 05:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w / oil spots 100%M	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

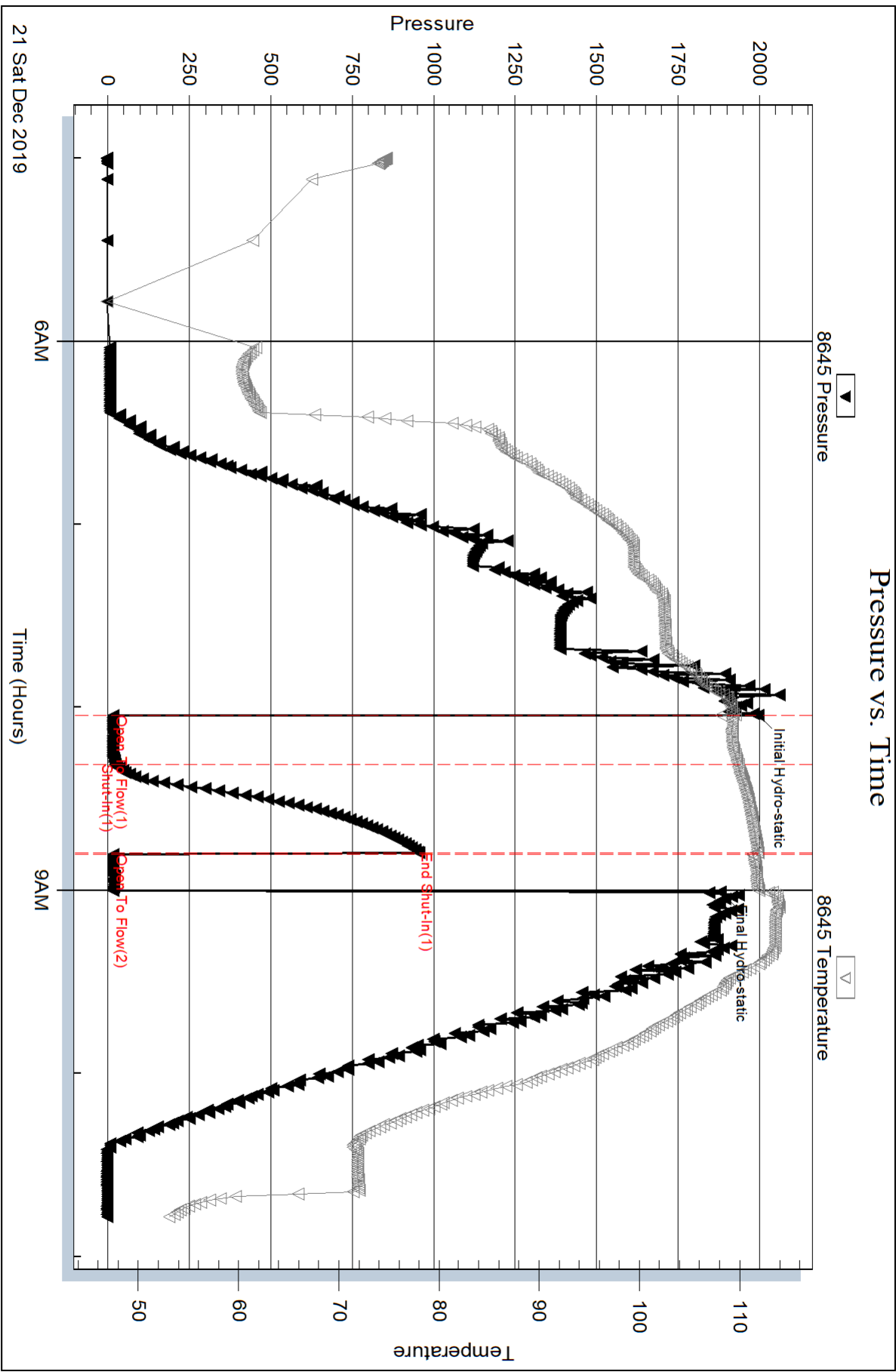
Serial #: 8645

Inside

Blue Ridge Petroleum Corp

Lanning #1-10

DST Test Number: 3

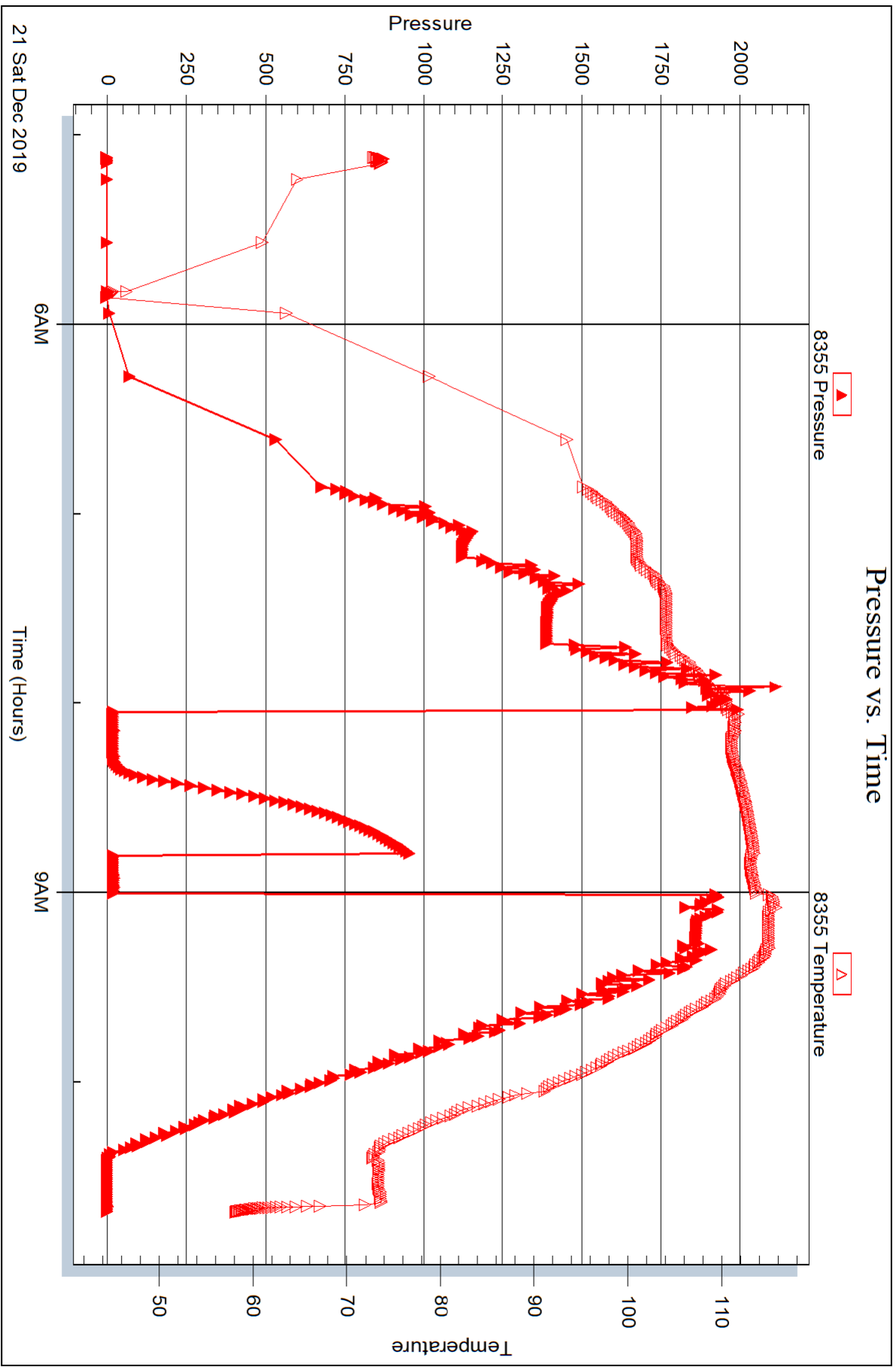


Serial #: 8355

Outside Blue Ridge Petroleum Corp

Lanning #1-10

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Blue Ridge Petroleum Corp**

PO Box 30545
Edmond OK 73003

ATTN: James Musgrove

Lanning #1-10

10-4s-32w Rawlins,KS

Start Date: 2019.12.22 @ 01:43:00

End Date: 2019.12.22 @ 09:59:09

Job Ticket #: 65646 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.12.24 @ 10:20:40



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Blue Ridge Petroleum Corp

10-4s-32w Rawlins, KS

PO Box 30545
Edmond OK 73003

Lanning #1-10

Job Ticket: 65646

DST#: 4

ATTN: James Musgrove

Test Start: 2019.12.22 @ 01:43:00

GENERAL INFORMATION:

Formation: **LKC" H - K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:14:20

Time Test Ended: 09:59:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 76

Interval: 4012.00 ft (KB) To 4115.00 ft (KB) (TVD)

Reference Elevations: 2960.00 ft (KB)

Total Depth: 4115.00 ft (KB) (TVD)

2955.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8645

Inside

Press@RunDepth: 887.32 psig @ 4013.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.12.22

End Date:

2019.12.22

Last Calib.:

2019.12.22

Start Time: 01:43:01

End Time:

09:59:10

Time On Btm:

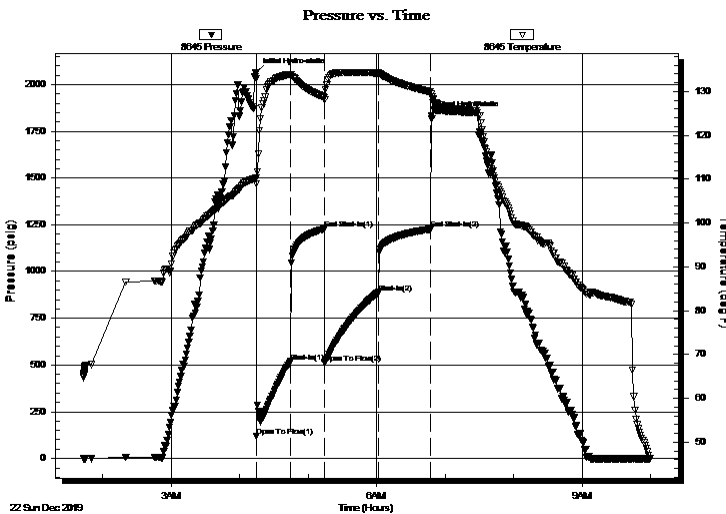
2019.12.22 @ 04:14:00

Time Off Btm:

2019.12.22 @ 06:47:50

TEST COMMENT: 30 IF - BoB @ 3 mins
30 ISI - Surface return started @ 5 mins built to 1/4"
45 FF - BoB @ 4 1/2 mins
45 FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2064.45	110.21	Initial Hydro-static
1	120.49	108.97	Open To Flow (1)
31	517.44	133.88	Shut-In(1)
61	1227.72	128.67	End Shut-In(1)
61	512.32	128.15	Open To Flow (2)
108	887.32	134.19	Shut-In(2)
153	1226.16	129.92	End Shut-In(2)
154	1834.80	129.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	MCW - 40%M - 60%W	0.88
1512.00	MCW - 5%M - 95%W	21.21
63.00	MCW - 10%M - 90%W	0.88
126.00	MCW - 30%M - 70%W	1.77

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Blue Ridge Petroleum Corp

10-4s-32w Rawlins,KS

PO Box 30545
Edmond OK 73003

Lanning #1-10

Job Ticket: 65646

DST#: 4

ATTN: James Musgrove

Test Start: 2019.12.22 @ 01:43:00

Tool Information

Drill Pipe:	Length: 4000.00 ft	Diameter: 3.80 inches	Volume: 56.11 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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: 96000.00 lb
			<u>Total Volume: 56.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 79000.00 lb
Depth to Top Packer:	4012.00 ft			Final 86000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	103.00 ft			
Tool Length:	124.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3992.00	
Shut In Tool	5.00			3997.00	
Hydraulic tool	5.00		Inside	4002.00	
Packer	5.00			4007.00	21.00 Bottom Of Top Packer
Packer	5.00			4012.00	
Stubb	1.00			4013.00	
Recorder	0.00	8355	Outside	4013.00	
Recorder	0.00	8645	Inside	4013.00	
Perforations	34.00			4047.00	
Change Over Sub	1.00			4048.00	
Drill Pipe	63.00			4111.00	
Change Over Sub	1.00			4112.00	
Bullnose	3.00			4115.00	103.00 Bottom Packers & Anchor

Total Tool Length: 124.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Blue Ridge Petroleum Corp

10-4s-32w Rawlins,KS

PO Box 30545
Edmond OK 73003

Lanning #1-10

Job Ticket: 65646

DST#: 4

ATTN: James Musgrove

Test Start: 2019.12.22 @ 01:43:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

73000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	MCW - 40%M- 60%W	0.884
1512.00	MCW - 5%M - 95%W	21.209
63.00	MCW - 10%M - 90%W	0.884
126.00	MCW - 30%M - 70%W	1.767

Total Length: 1764.00 ft Total Volume: 24.744 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

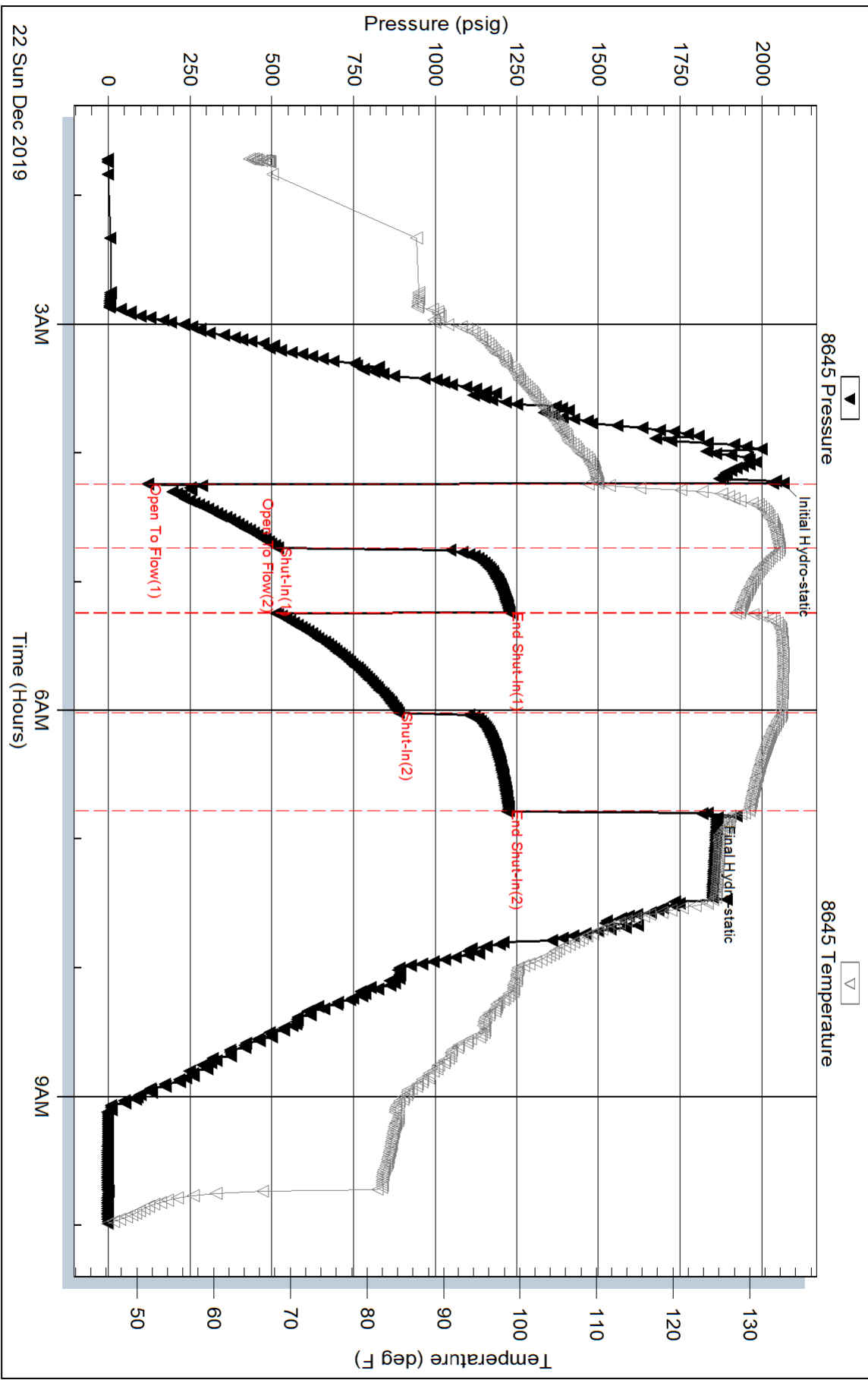
Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .217 @ 26 DEG F

CHLORIDES = 73,000 PPM

Pressure vs. Time

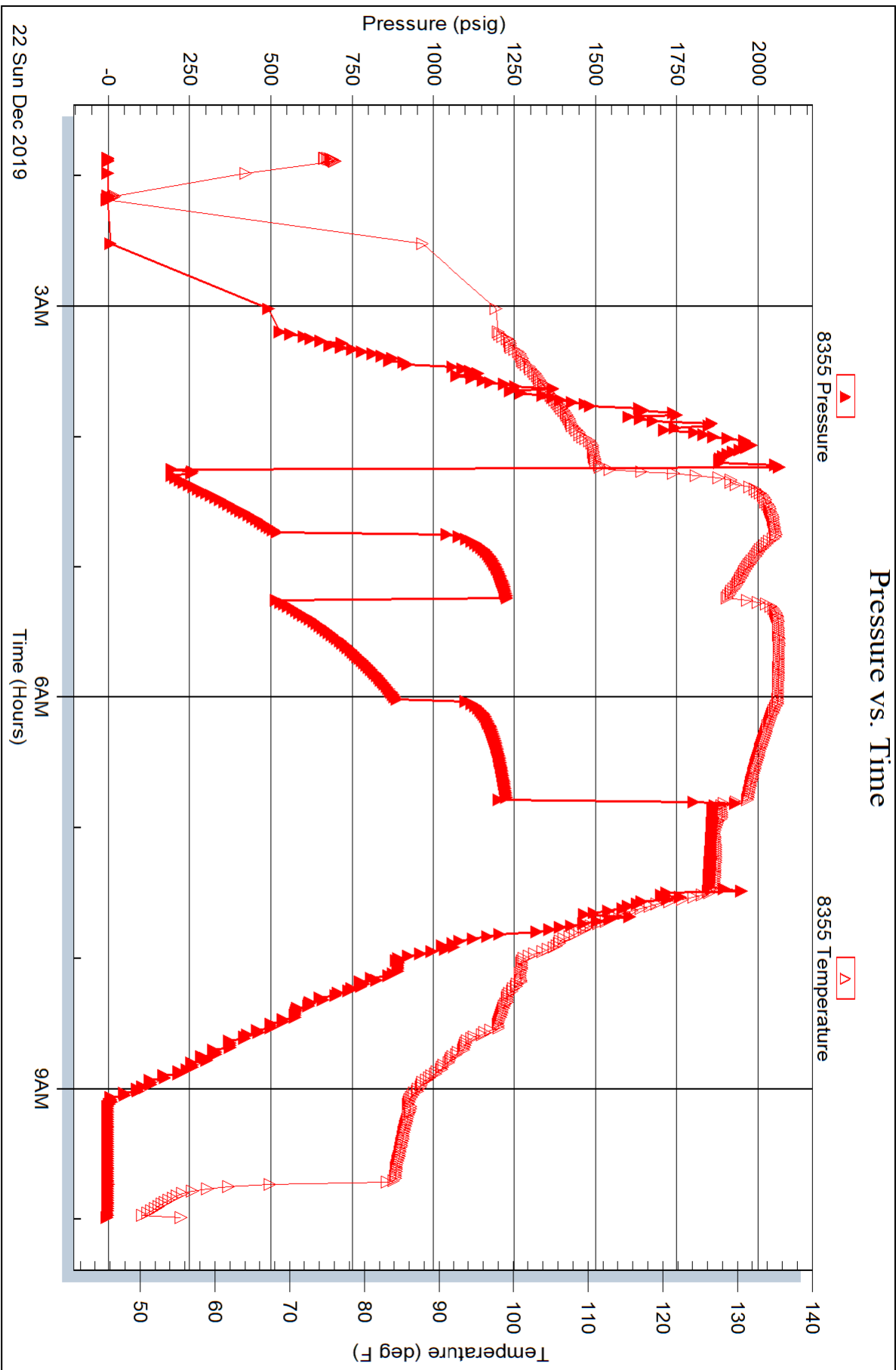


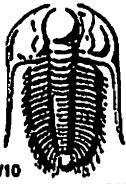
Serial #: 8355

Outside Blue Ridge Petroleum Corp

Lanning #1-10

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65643

Well Name & No. Lanning #1-10 Test No. 1 Date 12-19-19
 Company Blue Ridge Petroleum Corp Elevation 2960 KB 2955 GL
 Address PO Box 30545 Edmond OK 73003
 Co. Rep / Geo. James Musgrave Rig LD Drilling #1
 Location: Sec. 10 Twp 43 Rge. 32w Co. Rawlins State KS

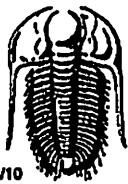
Interval Tested 3870-3900 Zone Tested Lansing A
 Anchor Length 60 Drill Pipe Run 3874 Mud Wt. 8.9
 Top Packer Depth 3865 Drill Collars Run — Vis 53
 Bottom Packer Depth 3870 Wt. Pipe Run — WL 6.4
 Total Depth 3900 Chlorides 2000 ppm System LCM 5
 Blow Description IF 2" Blow @ open BOB in 9min 30sec built to 26 1/4"
ISI No blow back
FF Blow built to 29 3/4" BOB in 17 min
FSI No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>252</u>	<u>505WM</u>	<u>1</u>	<u>25</u>	<u>74</u>	
<u>378</u>	<u>SMLW w/oil spots</u>		<u>93</u>	<u>7</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 630 BHT 120 Gravity — API RW 14.57 @ 28.1 °F Chlorides 10000 ppm

(A) Initial Hydrostatic <u>1905</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>17:46</u>
(B) First Initial Flow <u>26</u>	<input type="checkbox"/> Jars	T-Started <u>19:52</u>
(C) First Final Flow <u>150</u>	<input type="checkbox"/> Safety Joint	T-Open <u>22:42</u>
(D) Initial Shut-In <u>1193</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1:37 12-20</u>
(E) Second Initial Flow <u>153</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>3:35 12-20</u>
(F) Second Final Flow <u>303</u>	<input checked="" type="checkbox"/> Mileage <u>53 RT 53</u>	Comments <u>Tool slid 10ft to bottom</u>
(G) Final Shut-In <u>1205</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1892</u>	<input type="checkbox"/> Straddle	
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> EM Tool
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Shale Packer
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Packer
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Accessibility	Sub Total <u>0</u>
	Sub Total <u>1253</u>	Total <u>1253</u>

Approved By _____ Our Representative Shawn Heelbarger
 MP/DST Disc't _____
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65644

Well Name & No. Lanning #1-10 Test No. 2 Date 12-20-19
 Company Blue Ridge Petroleum Corp Elevation 2960 KB 2955 GL
 Address PO Box 30545 Edmond OK 73003
 Co. Rep / Geo. James Musgrove Rig LD Drilling #1
 Location: Sec. 10 Twp 4S Rge. 32W Co. Rawlins State KS

Interval Tested 3931-3970 Zone Tested Lansing C-D
 Anchor Length 39 Drill Pipe Run 3937 Mud Wt. 9.2
 Top Packer Depth 3926 Drill Collars Run - Vis 50
 Bottom Packer Depth 3931 Wt. Pipe Run - WL 8.8
 Total Depth 3970 Chlorides 3400 ppm System LCM 4
 Blow Description IF Surface blow @ open built to 2 1/4"
ISI No blow back
FF Blow built to 1 1/2"
FSI NO blow

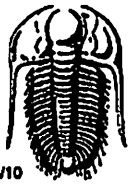
Rec	Feet of	%gas	%oil	%water	%mud
<u>32</u>	<u>MO</u>	<u>54</u>		<u>16</u>	
<u>30</u>	<u>Gas in pipe</u>	<u>100</u>			

Rec Total 62 BHT 118 Gravity 21.3 API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1956 Test 1200 T-On Location 11:14
 (B) First Initial Flow 13 Jars _____ T-Started 11:57
 (C) First Final Flow 19 Safety Joint _____ T-Open 14:05
 (D) Initial Shut-In 465 Circ Sub _____ T-Pulled 16:35
 (E) Second Initial Flow 17 Hourly Standby _____ T-Out 18:25
 (F) Second Final Flow 26 Mileage 53 RT 53 Comments _____
 (G) Final Shut-In 782 Sampler _____
 (H) Final Hydrostatic 1917 Straddle _____
 EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____

Initial Open 30 Shale Packer 250
 Initial Shut-In 30 Extra Packer _____
 Final Flow 45 Extra Recorder _____
 Final Shut-In 45 Day Standby _____
 Accessibility _____
 Sub Total 1503 Sub Total 1503 MP/DST Disc't _____

Approved By _____ Our Representative Shawn Wheelbarger
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65645

Well Name & No. Lanning # 1-10 Test No. 3 Date 12/21/19
 Company Blue Ridge Petroleum Corp Elevation 2960 KB 2955 GL
 Address P.O. Box 30545 Edmond OK 73003
 Co. Rep / Geo. James Musgrove Rig LD Drilling # 1
 Location: Sec. 10 Twp 4S Rge. 32W Co. Rawlins State KS

Interval Tested 3966 - 4021 Zone Tested LKC "E-G"
 Anchor Length 55' Drill Pipe Run 3968' Mud Wt. 9.2
 Top Packer Depth 3961 Drill Collars Run 0' Vis 51
 Bottom Packer Depth 3966 Wt. Pipe Run 0' WL 8.0
 Total Depth 4021 Chlorides 2000 ppm System LCM 2
 Blow Description 15 IF - No blow flushed tool no blow
30 ISI - No return
10 FF - No blow, flushed tool, weak surface

Rec	Feet of	%gas	%oil	%water	%mud
10'	Mud w/oil spots			100	

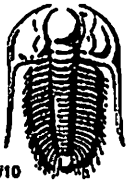
Rec Total 10' BHT 119° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1996 Test 1300 T-On Location 04:30
 (B) First Initial Flow 18 Jars — T-Started 05:00
 (C) First Final Flow 23 Safety Joint — T-Open 08:02
 (D) Initial Shut-In 954 Circ Sub — T-Pulled ~~09:00~~ 09:00
 (E) Second Initial Flow 18 Hourly Standby — T-Out 10:45
 (F) Second Final Flow — Mileage 53 RT 53 Comments —
 (G) Final Shut-In — Sampler —
 (H) Final Hydrostatic 1880 Straddle —
 Shale Packer 250 EM Tool —
 Extra Packer — Ruined Shale Packer —
 Extra Recorder — Ruined Packer —
 Day Standby — Extra Copies —
 Accessibility ? Sub Total 0
 Sub Total 1603 Total 1603
 MP/DST Disc't —

Approved By _____

Our Representative James Musgrove

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65646

Well Name & No. Lanning #1-10 Test No. 4 Date 12/22/19
 Company Blue Ridge Petroleum Corp. Elevation 2960 KB 2955 GL
 Address P.O. Box 30545 Edmond OK 73003
 Co. Rep / Geo. James Murgrove Rig LD Rig 1
 Location: Sec. 10 Twp 45 Rge. 32 W Co. Rawlins State KS

Interval Tested 4002 - 4015 Zone Tested LKC "H - OK"
 Anchor Length 103' Drill Pipe Run 4000' Mud Wt. 8.9
 Top Packer Depth 4007 Drill Collars Run 0' Vls 56
 Bottom Packer Depth 4012 Wt. Pipe Run 0' WL 8.2
 Total Depth 4115 Chlorides 2000 ppm System LCM 2
 Blow Description 30 IF - BoB @ 3 mins
30 ISI - Surface return @ 5 mins built to 1/4"
45 ~~BoB~~ FF - BoB @ 4 1/2 mins
45 FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>126'</u>	<u>MCW</u>		<u>70</u>	<u>30</u>	
<u>63'</u>	<u>MCW</u>		<u>90</u>	<u>10</u>	
<u>1512'</u>	<u>MCW</u>		<u>95</u>	<u>5</u>	
<u>63'</u>	<u>MCW</u>		<u>60</u>	<u>40</u>	

Rec Total 1764' BHT 130° Gravity — API RW 217 @ 26° F Chlorides 73,000 ppm

(A) Initial Hydrostatic <u>2064</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>01:15</u>
(B) First Initial Flow <u>120</u>	<input type="checkbox"/> Jars	T-Started <u>01:43</u>
(C) First Final Flow <u>517</u>	<input type="checkbox"/> Safety Joint	T-Open <u>04:14</u>
(D) Initial Shut-In <u>1228</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>06:47</u>
(E) Second Initial Flow <u>512</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>10:00</u>
(F) Second Final Flow <u>887</u>	<input checked="" type="checkbox"/> Mileage <u>53 RT</u> 106	Comments <u>loaded tools 12/22 21:45</u>
(G) Final Shut-In <u>1226</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> EM Tool
(H) Final Hydrostatic <u>1835</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1656</u>
	<input checked="" type="checkbox"/> Accessibility <u>?</u>	MP/DST Disc't
	Sub Total <u>1656</u>	

Approved By _____ Our Representative Thad Nicks
 Tribolite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

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

No. 1762

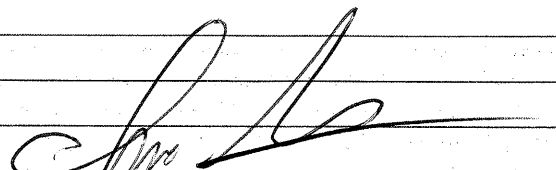
Date	12/23/19	Sec.	10	Twp.	4	Range	32	County	Rawlins	State	Ks	On Location		Finish	12:00 pm
								Location Hwy 83 & 24 junction 2 W 26 N west side							

Lease	Lanning	Well No.	1-10	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	LD Drilling			Charge To	Blue Ridge Petroleum
Type Job	Plug	Hole Size	7 7/8	T.D.	4180'
Csg.		Depth		Street	
Tbg. Size	4 1/2 DP	Depth	2700'	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	

Meas Line	Displace	240 60 4% gel 1/4 Flow	
EQUIPMENT		Common	144
Pumptrk	5 No. Cementer Helper	Rick	Poz. Mix 96
Bulktrk	15 No. Driver	Mike	Gel. 9
Bulktrk PU	No. Driver	David	Calcium

JOB SERVICES & REMARKS		Hulls
Remarks:		Salt
Rat Hole		Flowseal 60th
Mouse Hole		Kol-Seal
Centralizers		Mud CLR 48
Baskets		CFL-117 or CD110 CAF 38
D/V or Port Collar		Sand
50 sks at 2700'		Handling 249
100 sks at 1920'		Mileage
50 sks at 310'		

FLOAT EQUIPMENT	
10 sks at 40'	Guide Shoe
30 sks Rathole	Centralizer
	Baskets
	AFU Inserts
Cement Did Circulate	Float Shoe
	Latch Down
	Dry Hole Plug
	Pumptrk Charge plug
	Mileage 55

X Signature		Tax
		Discount
		Total Charge



Musgrove

Petroleum Geology
212 Main Street, Claflin KS

NOTES

Company: Blueridge Petroleum, Corp

Lease: Lanning #1-10

Field: Norman

Location: W/2-NW-NE-NE (330' FNL & 1090' FEL)

Sec:10 Twsp:4S Rge:32W

County: Rawlins State: Kansas

KB: 2958' GL: 2953'

Contractor: L.D. Drilling Inc. (Rig #1)

Spud:12/14/2019 Comp:12/22/2019

RTD: 4180' LTD: 4181'

Mud Up: 3300' Type Mud: Chemical

Samples Saved From: 3500' to RTD

Drilling Time Kept From: 3500' to RTD

Samples Examined From: 3500' to RTD

Geological Supervision from: 3600' to RTD

Geologist on Well: JIM MUSGROVE (3500- 4020) Wyatt Urban (4020-RTD)

Surface Casing: 8 5/8"@ 261'

Electronic Surveys: Logged by ELI WIRELINE SERVICES, ,DIL/BHCS, CNL/CDL, MEL



DRILL STEM TEST REPORT

Blue Ridge Petroleum Corp
10-4s-32w Rawlins, KS
Lanning #1-10
Job Ticket: 65644 DST#: 2
Edmond OK 73003
Test Start: 2019.12.20 @ 11:57:00
ATTN: James Musgrove

GENERAL INFORMATION:

Formation: **Lansing C - D**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:05:00
Time Test Ended: 18:30:39
Test Type: Conventional Bottom Hole (Reset)
Tester: Shawn Wheelbarger
Unit No: 76
Interval: **3931.00 ft (KB) To 3970.00 ft (KB) (TVD)**
Total Depth: 3970.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2960.00 ft (KB)
2955.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8355 Outside
Press@RunDepth: 26.24 psig @ 3932.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2019.12.20 End Date: 2019.12.20 Last Calib.: 2019.12.20
Start Time: 11:57:01 End Time: 18:30:40 Time On Btm: 2019.12.20 @ 14:04:20
Time Off Btm: 2019.12.20 @ 16:38:00



DRILL STEM TEST REPORT

Blue Ridge Petroleum Corp
10-4s-32w Rawlins, KS
Lanning #1-10
Job Ticket: 65643 DST#: 1
Edmond OK 73003
Test Start: 2019.12.19 @ 19:52:00
ATTN: James Musgrove

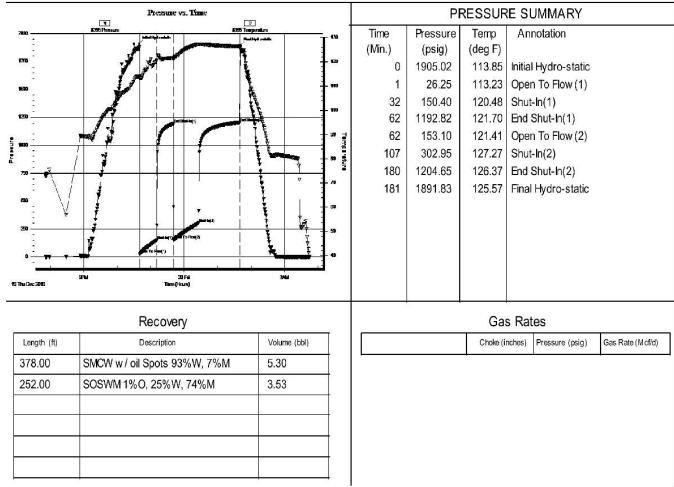
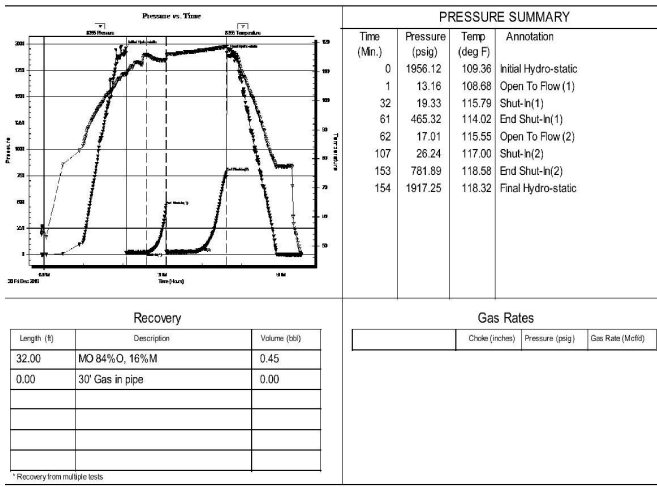
GENERAL INFORMATION:

Formation: **Toronto - Lansing A**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:40:50
Time Test Ended: 03:44:39
Test Type: Conventional Bottom Hole (Initial)
Tester: Shawn Wheelbarger
Unit No: 76
Interval: **3870.00 ft (KB) To 3930.00 ft (KB) (TVD)**
Total Depth: 3930.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2960.00 ft (KB)
2955.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8355 Outside
Press@RunDepth: 302.95 psig @ 3871.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2019.12.19 End Date: 2019.12.20 Last Calib.: 2019.12.20
Start Time: 19:52:01 End Time: 03:44:40 Time On Btm: 2019.12.19 @ 22:39:50
Time Off Btm: 2019.12.20 @ 01:40:39

TEST COMMENT: 30-F-Surface blow @ open built to 2 1/4"
 30-ISI-No blow back
 45-FF-Blow built to 1 1/2"
 45-FSI-No blow

TEST COMMENT: 30-F-2" Blow @ open BOB in 9 min 30 sec built to 26 1/4"
 30-ISI-No blow back
 45-FF-BOB in 17 min Blow built to 29 3/4"
 60-FSI-No blow



TRILOBITE TESTING, INC.
 Blue Ridge Petroleum Corp
 PO Box 30545
 Edmond OK 73003
 ATTN: James Musgrove

DRILL STEM TEST REPORT
 10-4s-32w Rawlins, KS
 Lanning #1-10
 Job Ticket: 65645
 DST#: 3
 Test Start: 2019.12.21 @ 05:00:00

GENERAL INFORMATION:
 Formation: LKC" E - G"
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 08:02:50
 Tester: Ryan Nichols
 Time Test Ended: 10:47:20
 Unit No: 76
 Interval: 3966.00 ft (KB) To 4021.00 ft (KB) (TVD)
 Reference Elevations: 2960.00 ft (KB)
 Total Depth: 4021.00 ft (KB) (TVD)
 2955.00 ft (CF)
 Hole Diameter: 7.88 inches-Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #	Inside	Capacity
8645	22.80 psig @ 3967.00 ft (KB)	8000.00 psig
Start Date:	2019.12.21	Last Calib.: 2019.12.21
Start Time:	05:00:01	End Time: 10:47:20
		Time On Btm: 2019.12.21 @ 08:02:40
		Time Off Btm: 2019.12.21 @ 09:00:30

TEST COMMENT: 15 F - No blow, flushed tool, no blow
 30 ISI - No return
 10 FF - No blow, flushed tool, w weak surface blow

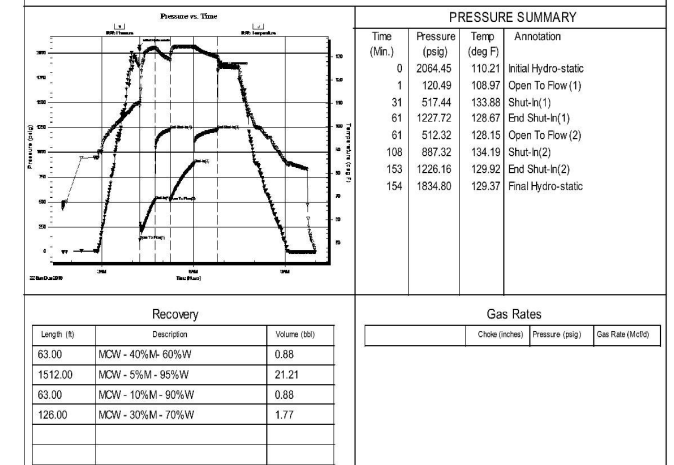
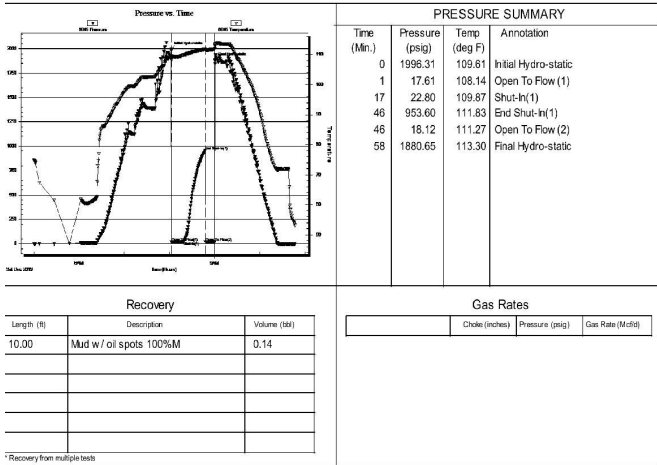
TRILOBITE TESTING, INC.
 Blue Ridge Petroleum Corp
 PO Box 30545
 Edmond OK 73003
 ATTN: James Musgrove

DRILL STEM TEST REPORT
 10-4s-32w Rawlins, KS
 Lanning #1-10
 Job Ticket: 65646
 DST#: 4
 Test Start: 2019.12.22 @ 01:43:00

GENERAL INFORMATION:
 Formation: LKC" H - K"
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 04:14:20
 Tester: Ryan Nichols
 Time Test Ended: 09:59:09
 Unit No: 76
 Interval: 4012.00 ft (KB) To 4115.00 ft (KB) (TVD)
 Reference Elevations: 2960.00 ft (KB)
 Total Depth: 4115.00 ft (KB) (TVD)
 2955.00 ft (CF)
 Hole Diameter: 7.88 inches-Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #	Inside	Capacity
8645	887.32 psig @ 4013.00 ft (KB)	8000.00 psig
Start Date:	2019.12.22	Last Calib.: 2019.12.22
Start Time:	01:43:01	End Time: 09:59:10
		Time On Btm: 2019.12.22 @ 04:14:00
		Time Off Btm: 2019.12.22 @ 06:47:50

TEST COMMENT: 30 F - BoB @ 3 mins
 30 ISI - Surface return started @ 5 mins built to 14"
 45 FF - BoB @ 4 1/2 mins
 45 FSI - No return



ROCK TYPES

Lmst fw<7
 shale, gry
 Carbon Sh
 shale, red
 Ss

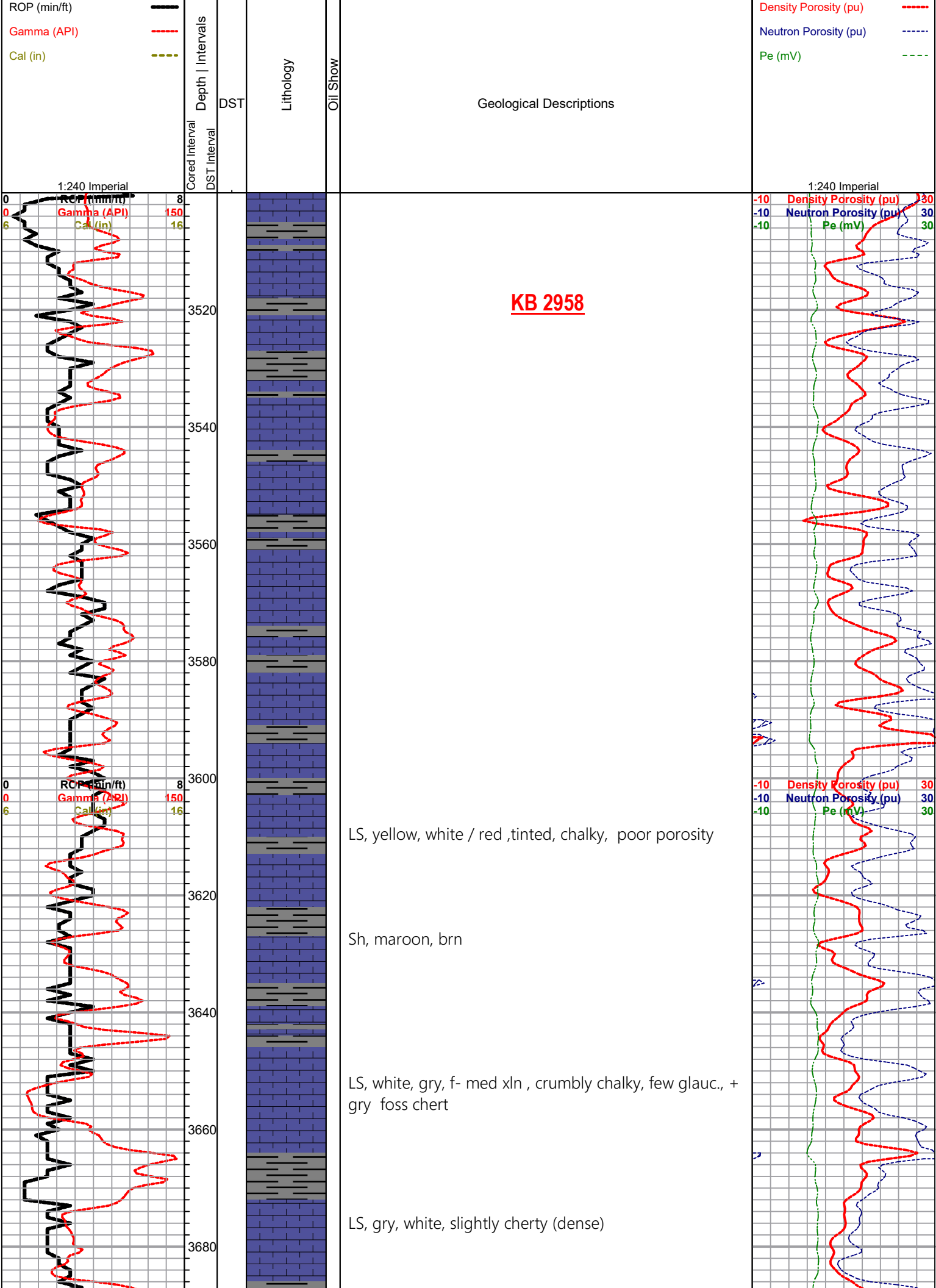
OTHER SYMBOLS

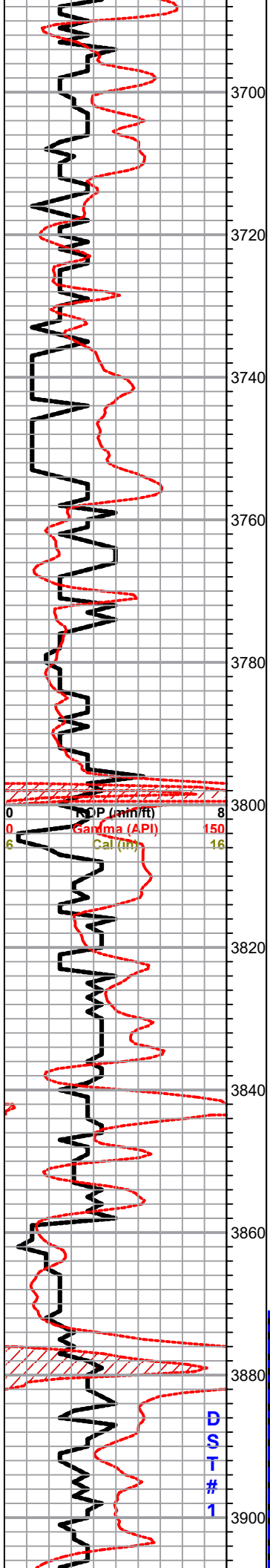
Oil Show

- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- D Dead Oil Stn
- Fluorescence
- * Gas

DST

- DST Int
- DST alt
- Core
- tail pipe





LS, gry, crm, highly ool, sl. chalky, no shows,

Tr. red , maroon, tinted LS, & soft shale.

Topeka 3708.0 (-750.0)

LS, gry, crm, fxl, few foss, chalky, poor vis. por.,

Sd. white, clr, qtz, vfg, highly cal, poor vis. por, fairly sorted, no shows

LS, tan, gry, foss, poor vis. por, no shows

LS, white, gry, fxl, foss, few ool, poor vis. porosity, white chalk

Tr. black carb

LS, gry, white, sandy, gran., poor vis. porosity, no shows

LS, gry, white, yellow few foss, sl. chalky, no shows

Sh, black carb

LS, gry, wh- yellow, foss, sl. chalky, no shows

LS, crm, white, fxl, foss in pt, dolomitic , no shows

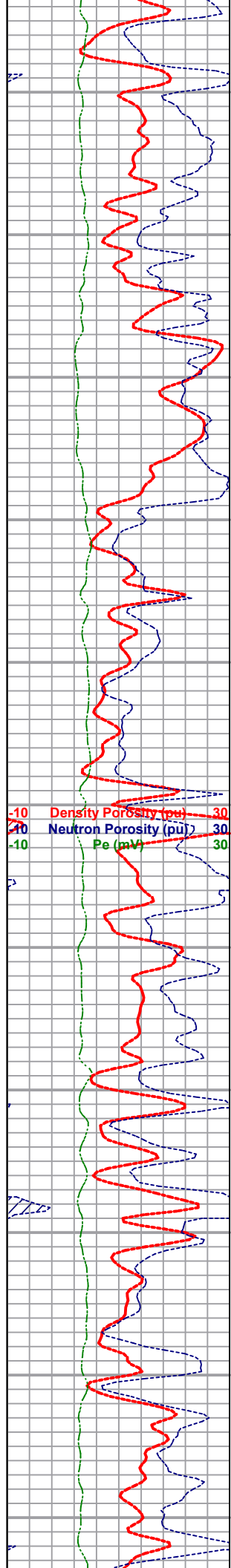
Heebner 3874.0 (-916.0)

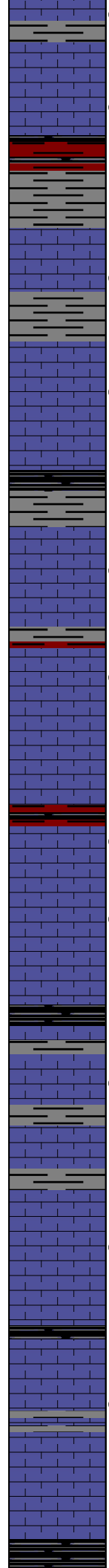
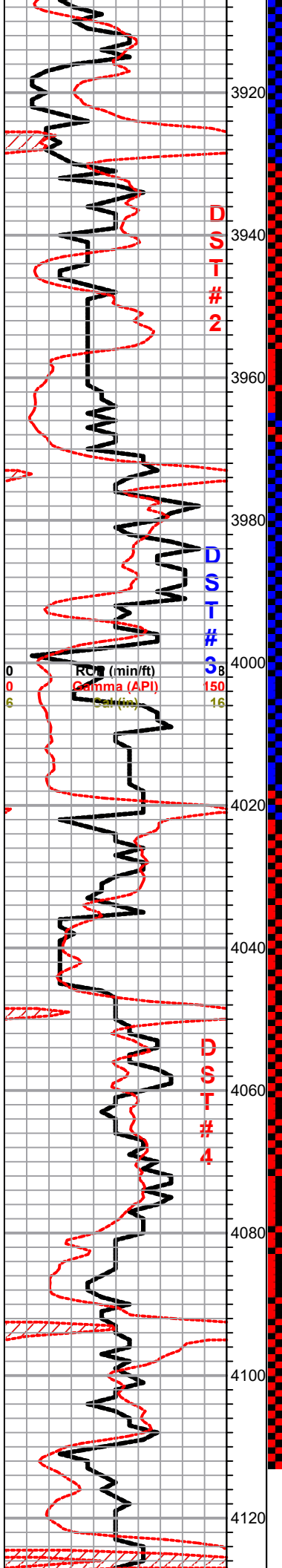
Sh, black carb

Sh, maroon, brick red/ rusty brn silty

Toronto 3906.0 (-948.0)

LS, white, gry, crm, fxl, foss, p.p. -- fair vuggy pors., fair





Lansing 3915.0 (-957.0)

brn- dk brn stain ; tr. sfo, ft. odor

LS, white, gry, ool/ foss, sl. chalky, scattered porosity, dk brn spttd stain, sfo, ??? odor

Abd., sh, maroon, rusty brn soft

LS, white, crm, fxl, gran., fair p.p. porosity, inxln por., good stain -sat., good sfo, ??? odor

LS, gry, white, chalky --> cherty, poor vis. porosity, blk edge staining. nsfo, no odor

Sh, drk gry, blk carb

LS, gry, white, foss in pt, chalky, gry- brn stain , sfo, no odor

Sh, maroon, rusty brn

LS, gry, f-med xln, scattered XL type por., golden brn stain, tr. sfo, no odor, (sl. grading to fxl, chalky, dense.

Slug maroon soft sh.

LS, crm , fxl, p.p. porosity, spty blk stain , fair sfo, lt. brn ft. odor

LS, white, crm, fxl porosity, chalky luster, v. weak lt. brn spty stain, + LS, white, p.p. type por., lt. spty blk stain , dk brn-blk sfo in crushed samples ??odor ,few vis. gas bubbles.

Black carb Sh

LS, white, cream, foss., poor dev. por., chalky, dense poorly developed vuggy type por., tr. lt. brn spty stain, lt. brn sfo, no odor

LS, tan, fxl, dense, poor vis. por., cherty in pts, no shows

Heavy red wash, soft brick red - dk gry sh,
Tr. LS, tan, foss, poorly developed p.p. por. chalky in pts, Lt. dk brn flky stain , v. weak spty sfo when crushed, no odor

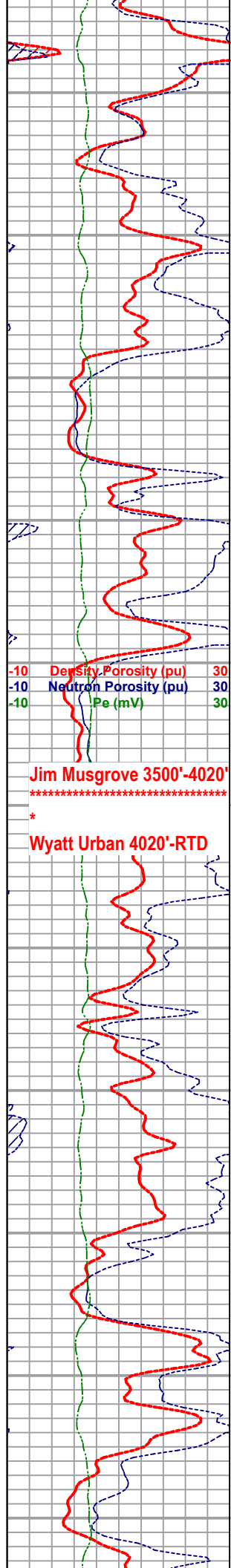
slug dk gry- blk

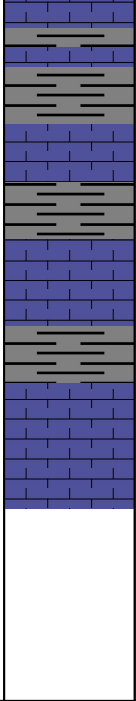
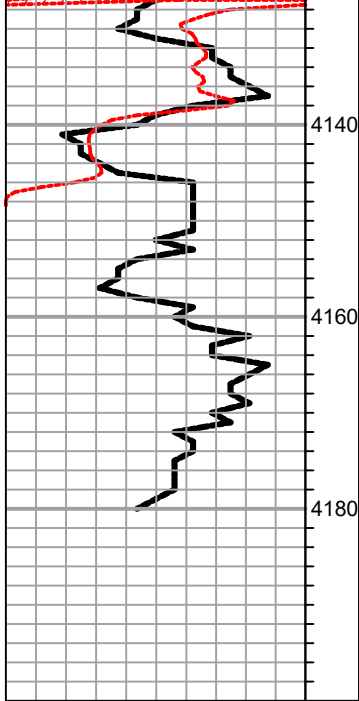
LS, white, fxl, few foss, poor por., lt. gry stain, blk flakey sfo (dead) nsfo, no odor

LS, tan, buff, scattered p.p. por., sl. suc., good inner por. sl. chalky , tr. lt. brn stain, tr. v. weak spotty sfo, no odor , no flur.

LS, tan, brn, poor vis. por., chalky luster, tr blk (flky) stain on few dense cherty samples, no shows, no odor

BKC 4139.0 (-1181.0)





Sh, maroon, dk gry , silty / waxy

LS, gry, fxl - dense, poor vis. porosity, nsfo, chalky in parts, no shows,

LS, tan, poorly developed p.p. por., no shows, no odor v. chalky

Sh, maroon, blk soft waxey, +Tr. LS, tan, poorly developed, micro ool/ foss, v. chalky, nsfo, no odor

Marmaton 4167.0 (-1209.0)

60" sample - LS, white, micro ool, fair inner ool por., sl. dol., tr. lg. clusters of pyrite in samples, barren. no odor

RTD 4180.0 (-1222.0)

LTD 4181.0 (-1223.0)

