



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Tim lauer

Dawson Trust B #1-7

7-14s-37w Logan,KS

Start Date: 2017.07.24 @ 11:50:00

End Date: 2017.07.24 @ 20:06:15

Job Ticket #: 64210 DST #: 1

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

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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy, LLC
 PO Box 8037
 Wichita, KS 67208
 ATTN: Tim Lauer

7-14s-37w Logan, KS
Dawson Trust B #1-7
 Job Ticket: 64210 **DST#: 1**
 Test Start: 2017.07.24 @ 11:50:00

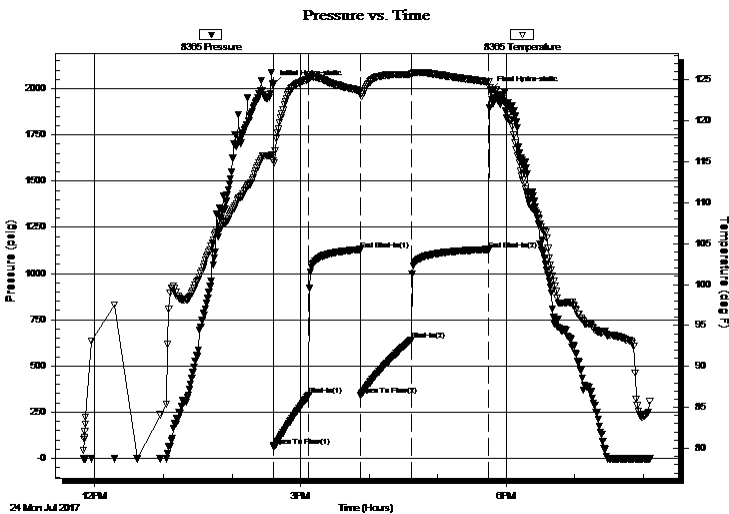
GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:36:30
 Time Test Ended: 20:06:15
 Interval: **4088.00 ft (KB) To 4140.00 ft (KB) (TVD)**
 Total Depth: 4140.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 3441.00 ft (KB)
 3434.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8365 Inside
 Press@RunDepth: 641.54 psig @ 4089.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.07.24 End Date: 2017.07.24 Last Calib.: 2017.07.24
 Start Time: 11:50:05 End Time: 20:06:14 Time On Btm: 2017.07.24 @ 14:36:00
 Time Off Btm: 2017.07.24 @ 17:46:15

TEST COMMENT: IF: BOB @ 4 min.
 IS: No return.
 FF: BOB @ 5 min.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2021.23	115.86	Initial Hydro-static
1	64.03	115.11	Open To Flow (1)
32	340.81	125.07	Shut-In(1)
77	1129.98	123.66	End Shut-In(1)
77	343.42	123.27	Open To Flow (2)
122	641.54	125.67	Shut-In(2)
189	1129.81	124.75	End Shut-In(2)
191	1991.36	123.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1415.00	smcw 3m 97w (oil spots on top)	19.85

Gas Rates

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



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TESTING, INC.**

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TOOL DIAGRAM

Cobalt Energy, LLC

7-14s-37w Logan, KS

PO Box 8037
Wichita, KS 67208

Dawson Trust B #1-7

Job Ticket: 64210

DST#: 1

ATTN: Tim lauer

Test Start: 2017.07.24 @ 11:50:00

Tool Information

Drill Pipe:	Length: 4094.00 ft	Diameter: 3.80 inches	Volume: 57.43 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 57.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4088.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	72.00 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			4069.00	
Shut In Tool	5.00			4074.00	
Hydraulic tool	5.00			4079.00	
Packer	5.00			4084.00	20.00 Bottom Of Top Packer
Packer	4.00			4088.00	
Stubb	1.00			4089.00	
Recorder	0.00	8365	Inside	4089.00	
Recorder	0.00	8845	Outside	4089.00	
Perforations	15.00			4104.00	
Change Over Sub	1.00			4105.00	
Drill Pipe	31.00			4136.00	
Change Over Sub	1.00			4137.00	
Bullnose	3.00			4140.00	52.00 Bottom Packers & Anchor

Total Tool Length: 72.00



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FLUID SUMMARY

Cobalt Energy, LLC

7-14s-37w Logan,KS

PO Box 8037
Wichita, KS 67208

Dawson Trust B #1-7

Job Ticket: 64210

DST#: 1

ATTN: Tim lauer

Test Start: 2017.07.24 @ 11:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

29000 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1415.00	smcw 3m 97w (oil spots on top)	19.849

Total Length: 1415.00 ft Total Volume: 19.849 bbl

Num Fluid Samples: 0

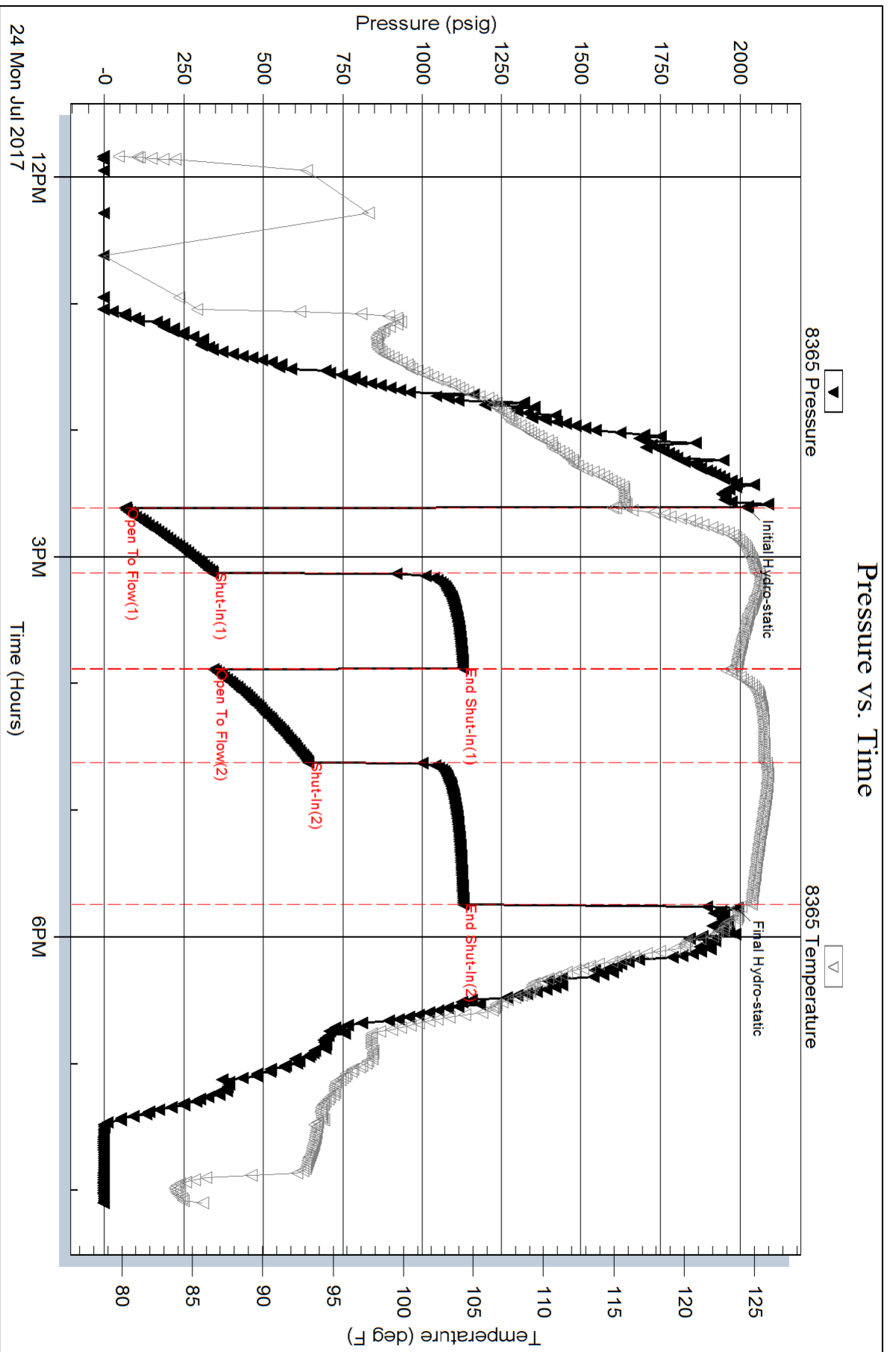
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .201 @ 82f = 29000ppm

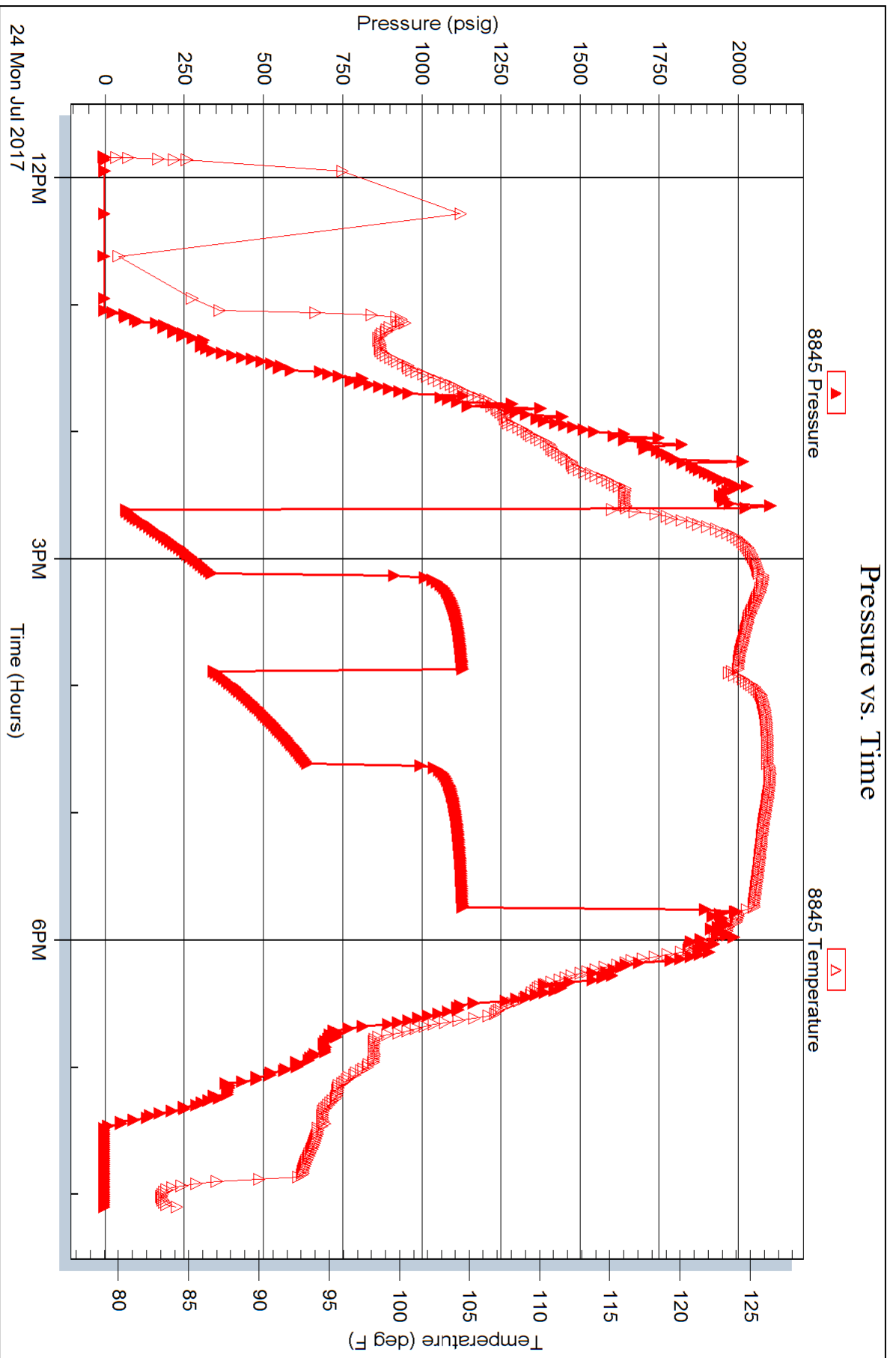


Serial #: 8845

Outside Cobalt Energy, LLC

Dawson Trust B #1-7

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 64210

Printed: 2017.07.28 @ 16:16:07



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64210**

Well Name & No. Dawson Trust B # 1-7 Test No. 1 Date 7/24/2017
 Company Cobalt Energy, LLC Elevation 3486 KB 3434 GL
 Address PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Tim Lauer Rig Pickrell #10
 Location: Sec. 7 Twp. 14s Rge. 37W Co. Logan State Ks

Interval Tested 4088-4140 Zone Tested Toronto
 Anchor Length 52 Drill Pipe Run 4094 Mud Wt. 9.1
 Top Packer Depth 4083 Drill Collars Run Ø Vis 62
 Bottom Packer Depth 4088 Wt. Pipe Run Ø WL 8.0
 Total Depth 4140 Chlorides 4200 ppm System LCM 2H
 Blow Description IF BOB @ 4min.
ISI No return.
FF BOB @ 5min.
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1415</u>	<u>SMCW</u>		<u>97</u>	<u>3</u>	
	<u>Oil spots on top.</u>				

Rec Total 1415 BHT 123 Gravity — API RW .201 @ 82 °F Chlorides 29,000 ppm

(A) Initial Hydrostatic <u>2021</u> <u>RT</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1040</u>
(B) First Initial Flow <u>64</u> <u>RT</u>	<input type="checkbox"/> Jars	T-Started <u>1450</u>
(C) First Final Flow <u>341</u>	<input type="checkbox"/> Safety Joint	T-Open <u>1436</u>
(D) Initial Shut-In <u>1130</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>1736</u>
(E) Second Initial Flow <u>343</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2006</u>
(F) Second Final Flow <u>642</u>	<input checked="" type="checkbox"/> Mileage <u>152 RT</u> <u>114</u>	Comments <u>RT Tool 20 15 7/27</u>
(G) Final Shut-In <u>1130</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1991</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1264</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1264</u>	

Approved By _____ Our Representative [Signature]

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