

DRILL STEM TEST REPORT

Prepared For: **Anderson Energy, Inc.**

300 West Douglas Ave.
Suite 410
Wichita, KS 67202

ATTN: Bill Anderson/Ken Le

Dugan Family #1-11

11-29S-1W Sedgwick, KS

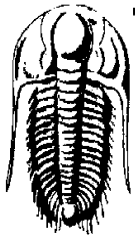
Start Date: 2018.04.16 @ 05:18:00

End Date: 2018.04.16 @ 13:10:50

Job Ticket #: 63383 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

Anderson Energy, Inc.

300 West Douglas Ave.

Suite 410

Wichita, KS 67202

ATTN: Bill Anderson/Ken Le

11-29S-1W Sedgwick, KS

Dugan Family #1-11

Job Ticket: 63383

DST#: 1

Test Start: 2018.04.16 @ 05:18:00

GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:34:00

Time Test Ended: 13:10:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: **2892.00 ft (KB) To 2920.00 ft (KB) (TVD)**

Total Depth: 2920.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1296.00 ft (KB)

1287.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8369 Outside

Press@RunDepth: 161.45 psig @ 2893.00 ft (KB)

Start Date: 2018.04.16

End Date:

2018.04.16

Start Time: 05:18:01

End Time:

13:10:50

Capacity: 8000.00 psig

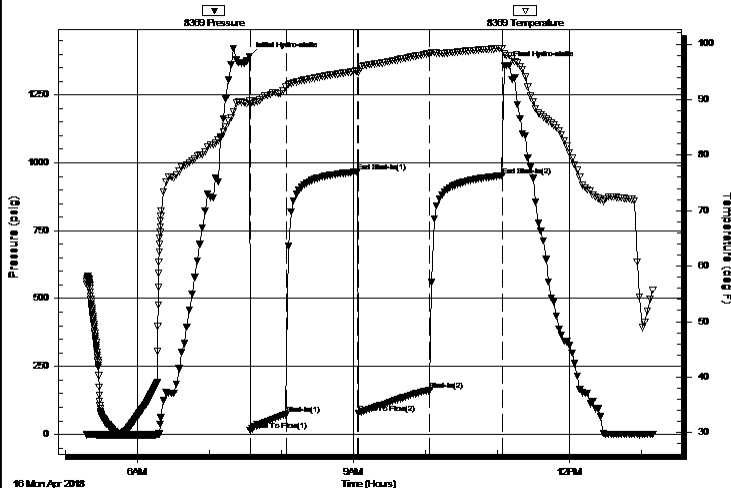
Last Calib.: 2018.04.16

Time On Btm: 2018.04.16 @ 07:33:30

Time Off Btm: 2018.04.16 @ 11:07:39

TEST COMMENT: IF - Weak blow building to 8"
FF - Weak blow building to 10"

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1390.69	89.67	Initial Hydro-static
1	16.48	89.19	Open To Flow (1)
31	72.54	92.28	Shut-In(1)
90	965.65	95.14	End Shut-In(1)
92	77.38	95.03	Open To Flow (2)
151	161.45	98.30	Shut-In(2)
211	951.85	99.21	End Shut-In(2)
215	1356.55	97.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	MCW 86% W 14% M	1.18
70.00	HMCW 61% W 39% M	0.38

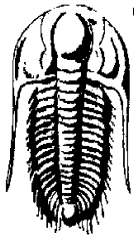
Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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ATTN: Bill Anderson/Ken Le

KB to GR/CF: 9.00 ft



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TOOL DIAGRAM

Anderson Energy, Inc.

11-29S-1W Sedgwick, KS

300 West Douglas Ave.
Suite 410
Wichita, KS 67202

Dugan Family #1-11

Job Ticket: 63383

DST#: 1

ATTN: Bill Anderson/Ken Le

Test Start: 2018.04.16 @ 05:18:00

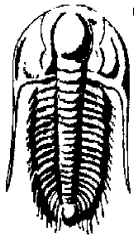
Tool Information

Drill Pipe:	Length: 2582.00 ft	Diameter: 3.80 inches	Volume: 36.22 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 306.00 ft	Diameter: 2.25 inches	Volume: 1.50 bbl	Weight to Pull Loose: 61000.00 lb
		Total Volume:	37.72 bbl	Tool Chased 1.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	2892.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			2870.00	
Shut In Tool	5.00			2875.00	
Hydraulic tool	5.00			2880.00	
Safety Joint	3.00			2883.00	
Packer	4.00			2887.00	23.00 Bottom Of Top Packer
Packer	5.00			2892.00	
Stubb	1.00			2893.00	
Recorder	0.00	8369	Outside	2893.00	
Recorder	0.00	8846	Inside	2893.00	
Perforations	22.00			2915.00	
Bullnose	5.00			2920.00	28.00 Bottom Packers & Anchor

Total Tool Length: 51.00



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FLUID SUMMARY

Anderson Energy, Inc.

11-29S-1W Sedgwick, KS

300 West Douglas Ave.

Dugan Family #1-11

Suite 410

Job Ticket: 63383

DST#: 1

Wichita, KS 67202

Test Start: 2018.04.16 @ 05:18:00

ATTN: Bill Anderson/Ken Le

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:

50000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	MCW 86% W 14% M	1.180
70.00	HMCW 61% W 39% M	0.381

Total Length: 310.00 ft

Total Volume: 1.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

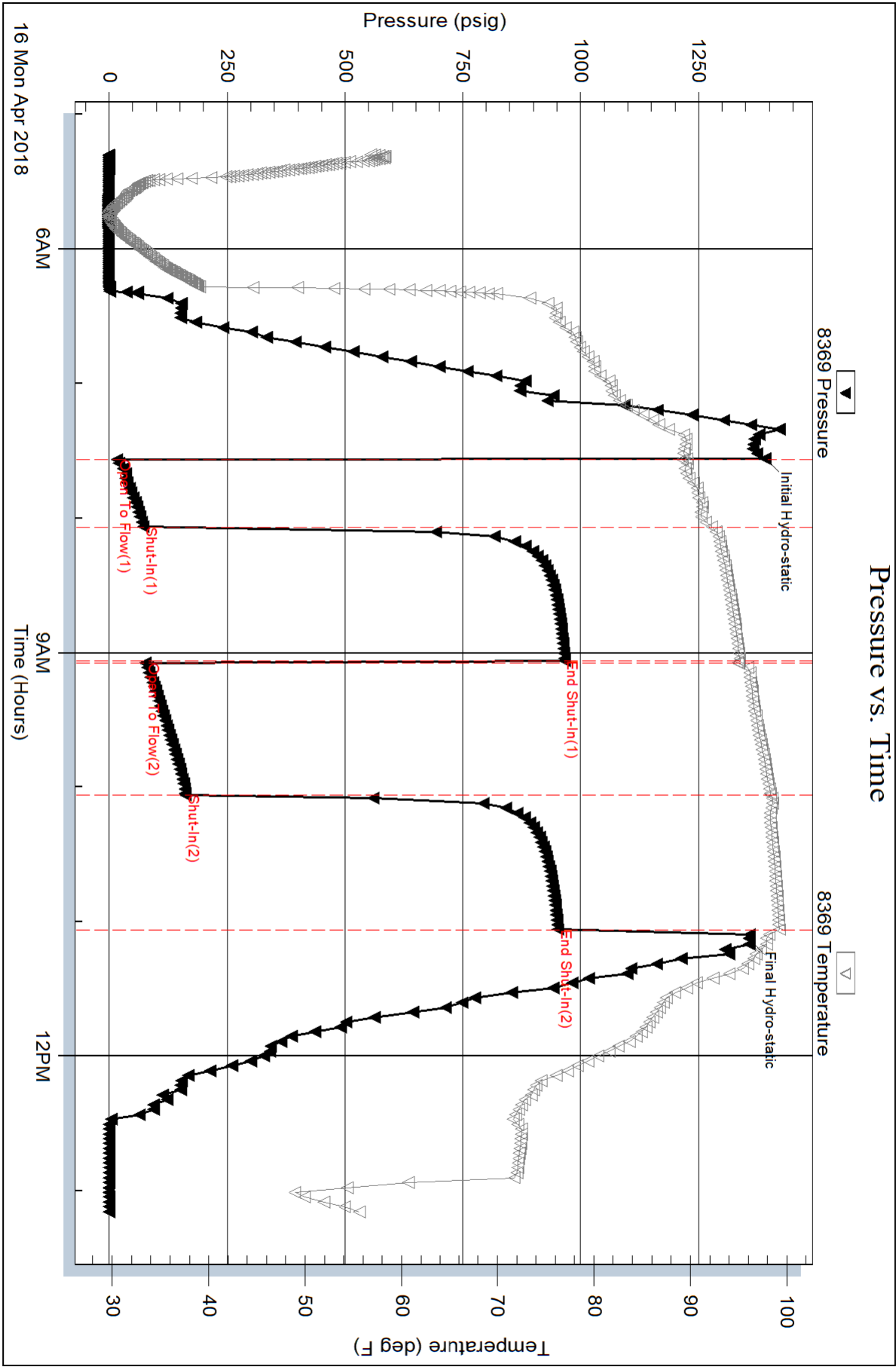
Recovery Comments:

Serial #: 8369

Outside Anderson Energy, Inc.

Dugan Family #1-11

DST Test Number: 1



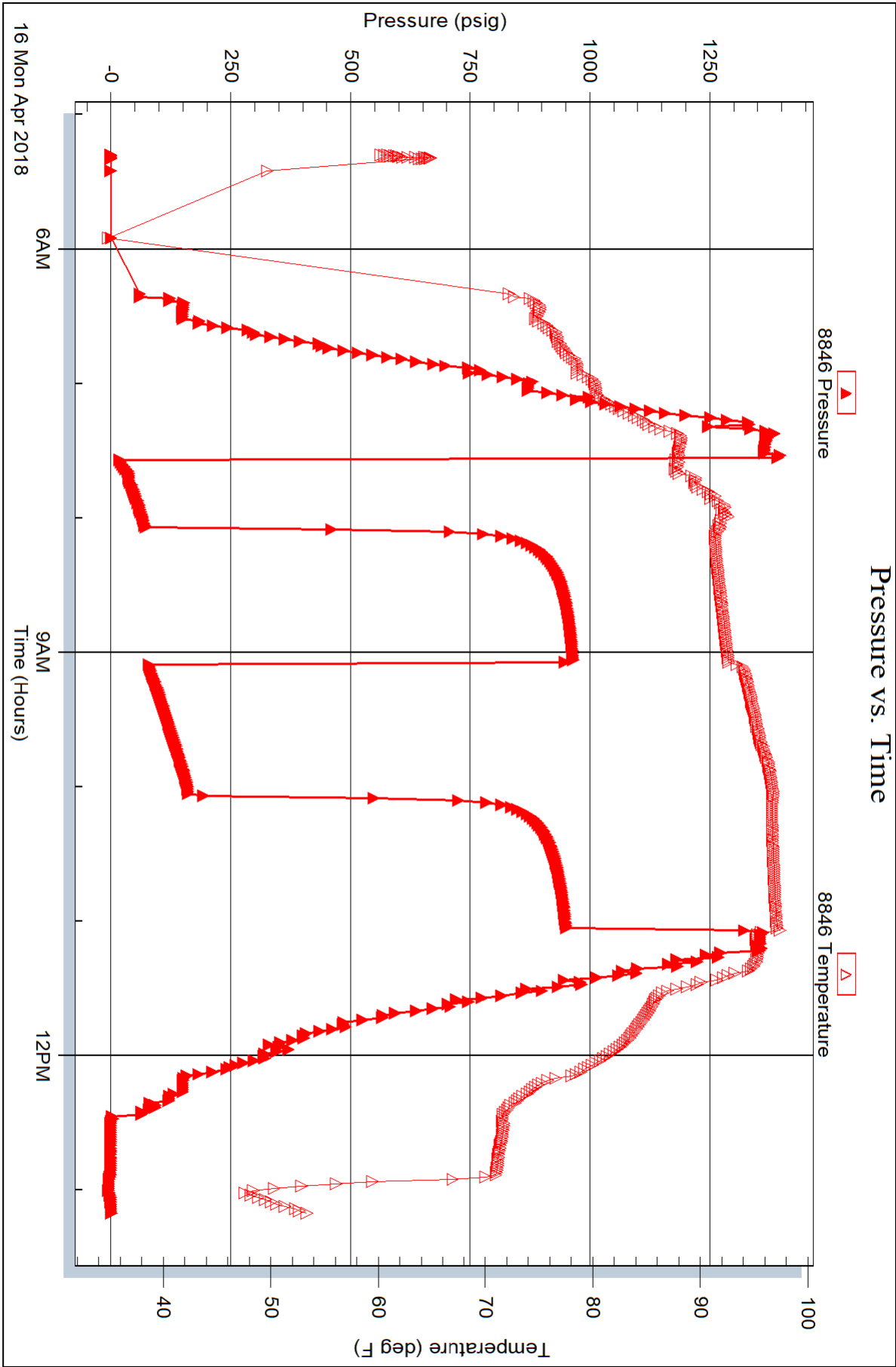
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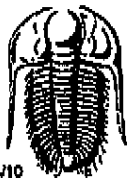
Inside

Anderson Energy, Inc.

Dugan Family #1-11

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63383

Well Name & No. Dugan ~~the~~ Family # 1-11 Test No. 1 Date 4-16-18
 Company Anderson Energy, Inc. Elevation 1296 KB 1287 GL
 Address 300 West Douglas Ave, Suite 410 Wichita, KS, 67202
 Co. Rep / Geo. Bill Anderson / Ken LeBlanc Rtg CP 6 #2
 Location: Sec. 11 Twp 29 S Rge. 1 W Co. Sedgwick State KS

Interval Tested 2892-2920 Zone Tested Kansas City K
 Anchor Length 28' Drill Pipe Run 2582 Mud Wt. 9.1
 Top Packer Depth 2887 Drill Collars Run 306 Vis 58
 Bottom Packer Depth 2892 Wt. Pipe Run 0 WL 8.8
 Total Depth 2920 Chlorides 2000 ppm System LCM
 Blow Description IF - weak blow building to 8 inches IFP
FF - weak blow building to 10 inches FFP

Rec	Feet of	%gas	%oil	%water	%mud
<u>240</u>	<u>mud cut water</u>			<u>86</u>	<u>14</u>
<u>70</u>	<u>Heavy mud cut water</u>			<u>61</u>	<u>39</u>

Rec Total 310 BHT 99 Gravity API RW 0.179 @ 60 °F Chlorides 52,000 ppm
 (A) Initial Hydrostatic 1391 ☒ Test 1050 T-On Location 0330
 (B) First Initial Flow 16 ☐ Jars 0518
 (C) First Final Flow 73 ☒ Safety Joint 75 T-Open 0734
 (D) Initial Shut-In 966 ☐ Circ Stub 1104
 (E) Second Initial Flow 77 ☐ Hourly Standby 1300
 (F) Second Final Flow 161 ☒ Mileage 176rt RT 33 Comments
 (G) Final Shut-In 952 ☐ Sampler
 (H) Final Hydrostatic 1357 ☐ Straddle ☐ Ruined Shale Packer
☐ Shale Packer ☐ Ruined Packer
☐ Extra Packer ☐ Extra Copies
☐ Extra Recorder
☐ Day Standby
☐ Accessibility

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 60

Sub Total 1301

Our Representative

Approved By

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