

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

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

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

<div style="text-align: center;"> CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used Report all strings set-conductor, surface, intermediate, production, etc. </div>							
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 (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water	Bbls.	Gas-Oil Ratio Gravity

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

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record (Amount and Kind of Material Used)

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Anderson Energy, Inc.
Well Name	DUGAN FAMILY 1-11
Doc ID	1417523

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	17.5	13.375	48	120	common	135	2%cc, 1/4 cello
Surface	12.25	8.625	23	380	60/40 poz	200	2% gel, 3% cc



Customer Anderson Energy inc		Lease No.		Date 4-13-18	
Lease DUGAN FAMILY		Well # 1			
Field Order # 16539	Station PIATT	Casing 8 5/8	Depth 380	County sedgwick	State KS
Type Job 2-42 8 5/8 SURFACE			Formation	Legal Description 11-295-1W	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size 8 1/8	Tubing Size	Shots/Ft		Acid 225 sks	RATE 60/40 gpm	PRESS	ISIP
Depth 380	Depth	From	To	Pre Pad 370 cc	Max 290 gal	1/4" cell	5 Min.
Volume 24.8	Volume	From	To	Pad	Min		10 Min.
Max Press 300	Max Press	From	To	Frac	Avg		15 Min.
Well Connection 50	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 380	Packer Depth	From	To	Flush 23.5	Gas Volume		Total Load

Customer Representative	RILL ANDERSON	Station Manager	WESTERMAN	Treater	MATTAL
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Service Units	83353		77686	86779		70959	19862				
Driver Names	MATTI		McG	IGW		CLYMER					

[illegible]

STATE OF KANSAS

CORPORATION COMMISSION
CONSERVATION DIVISION
266 N. MAIN ST., STE. 220
WICHITA, KS 67202-1513



PHONE: 316-337-6200
FAX: 316-337-6211
<http://kcc.ks.gov/>

GOVERNOR JEFF COLYER, M.D.

SHARI FEIST ALBRECHT, CHAIR | JAY SCOTT EMLER, COMMISSIONER | DWIGHT D. KEEN, COMMISSIONER

October 11, 2018

Bill Anderson
Anderson Energy, Inc.
300 W DOUGLAS AVE, STE 410
WICHITA, KS 67202-2903

Re: ACO-1
API 15-173-21057-00-00
DUGAN FAMILY 1-11
SW/4 Sec.11-29S-01W
Sedgwick County, Kansas

Dear Bill Anderson:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

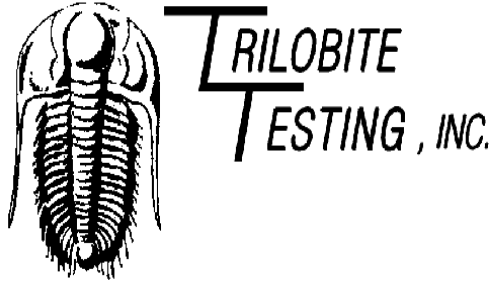
The above referenced well was spudded on 04/11/2018 and the ACO-1 was received on October 10, 2018 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department



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

Printed: 2018.04.17 @ 11:44:14



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

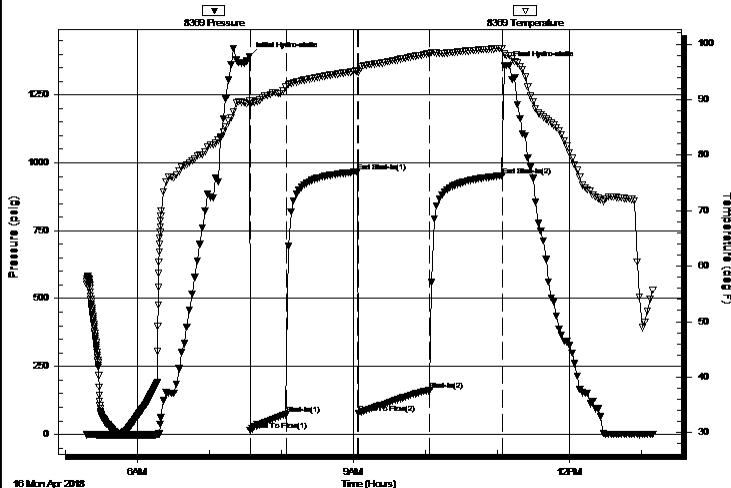
Last Calib.: 2018.04.16

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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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 #: 8846 Inside

Press@RunDepth: 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

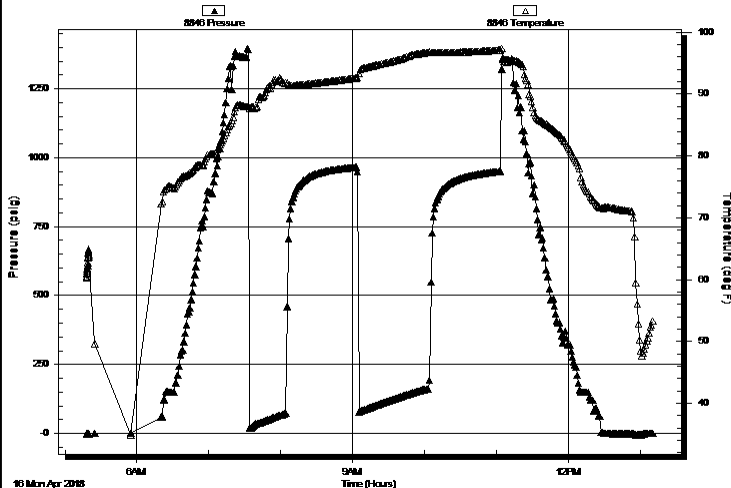
Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

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

Pressure vs. Time



PRESSURE SUMMARY

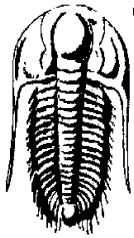
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

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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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

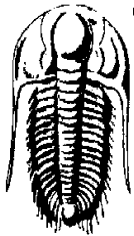
Tool Information

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

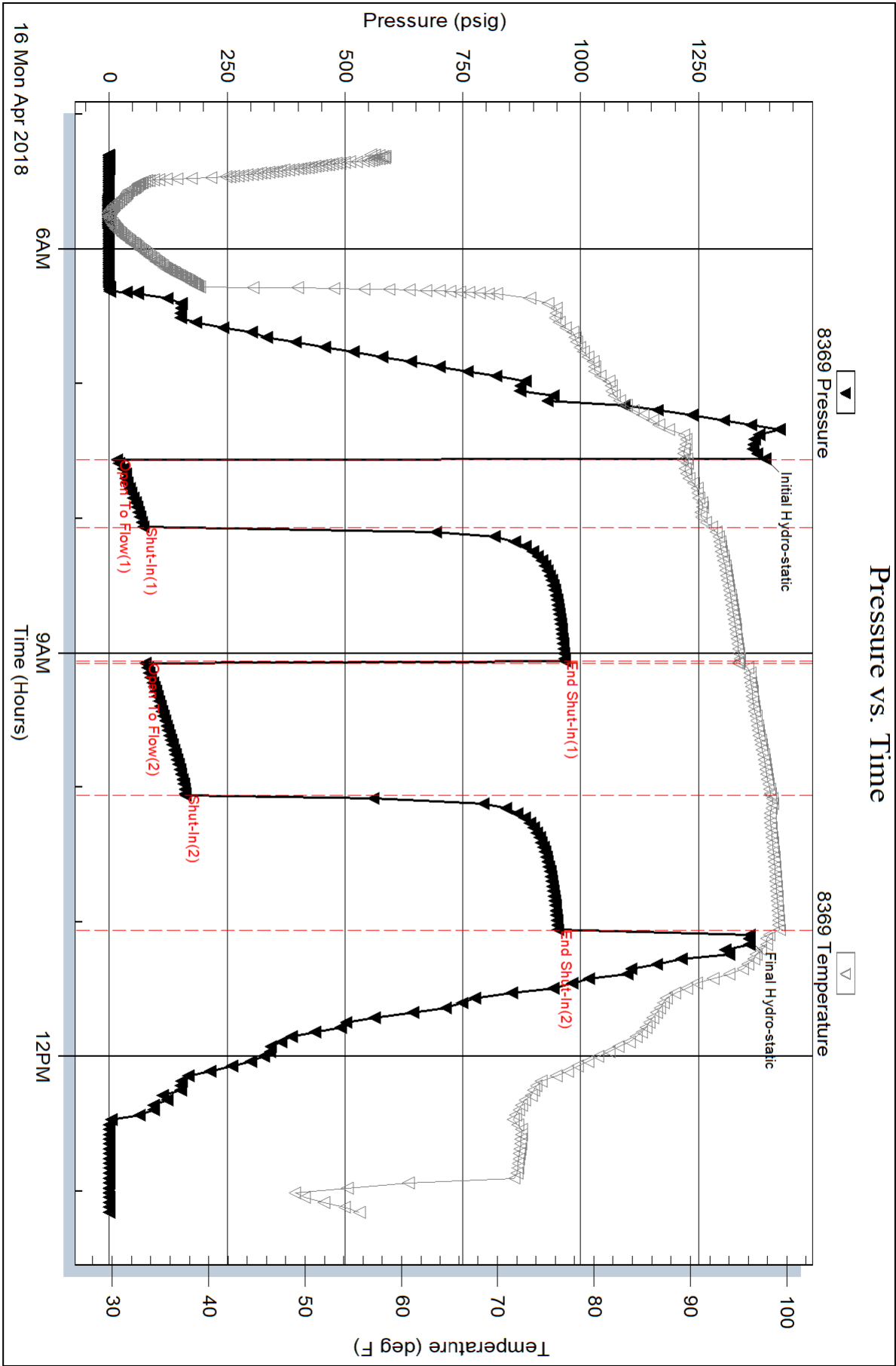
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



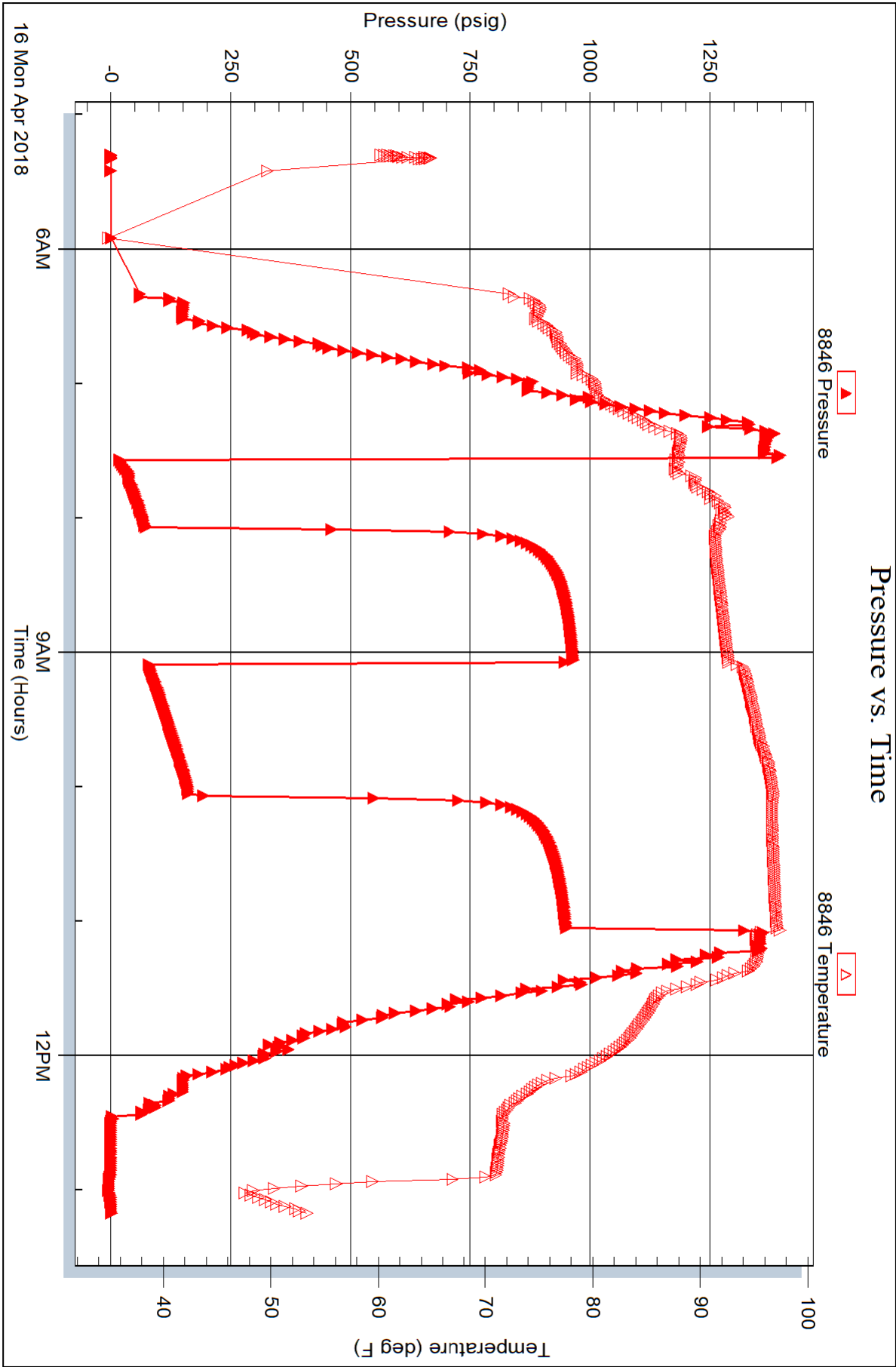
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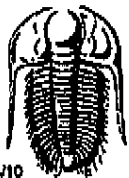
Inside

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 ~~and~~ 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 Rlg 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

Triobite 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.



15-173-21067-0000
Anderson Energy, Inc.
Dugan 1-11
990 FSL & 1650 FWL
Sec. 11-T29S-R1W
Sedgwick County, Kansas
KB 1297

FIELD REPORT

0" 5" 10" 15" DISPLACED MUD SYSTEM AT 2299 FT

MUD-CO at 1564'
WT: 8.7, VIS: 28
WL: NC, CHL: 1,900
LCM:0#

2400

Iatan Ls 2457-1160

2500

sst cream to tan vfn to fn and some med grain, poorly sorted, angular, friable, included with glauc. and organics
NO SHOWS, NO GAS INCREASE

NEW BIT at 2518'
TOOH w/PDC Bit

sst cream to tan vfn to fn and some med grain, poorly sorted, angular, friable, included with glauc. and organics
NO SHOWS, NO GAS INCREASE

50

sst lt gry with lt green tint, vfn thru fn-med grain, angular, fair sorted, some friable included with glauc. and organics
NO SHOWS, NO GAS INCREASE

Is tan-brn med to very coarse xln, fossilif, interbedded with sst lt gry, fn grain

shales gry, dk gry, silty, gry-green

shales gry, dk gry, silty, gry-green

2600

Lansing 2604-1307

Is dk brn to brn fn xln, lesser med-coarse xln

MUD-CO at 2613'
WT: 8.8, VIS: 41,
WL: 8.8, CHL: 2,000
LCM: 4#

Is dk brn to brn fn xln dn, flakey

shales dk gry, gry to blk, soft mixed with gry-grn

50

shales dk gry, gry to blk, soft mixed with gry-grn

shales dk gry, gry to blk, soft mixed with gry-grn

2700

shales blk and dk gry, firm to brittle

shales black and dk gry

shales blk and dk gry, firm to brittle

shales blk and dk gry, firm to brittle

50

shales blk and dk gry, firm to brittle

shales blk and dk gry, firm to brittle

Kansas City 2787-1490

Is white to lt gry fn-med oolitic, ringed, chalky in part grades to ls brn fn-med oolitic, ringed in dn matrix

2800

fair odor, ls lt gry med oolitic and slightly oomoldic, some lightly laced with chalk, 5-10% with bright sptd gold fluor wet exhibiting GOOD SHOWS CLEAR LIVE OIL (oil does fluor), no fluor dry, no stain, no cut HW-8u, Recycle HW-3u

CFS-45" Is cream and tan fn and med oolitic, ringed, coated and fossilif, chalk thru-out
NO SHOWS OIL OR GAS, NO GAS INCREASE

Is tan fn and med xln-oolitic, assoc. chert 15%+, milky to lt gry, fresh, subopaque

Is tan and cream fn xln dn, some weathered and chalky

Is tan and cream fn xln dn, some weathered and chalky

50

Is tan fn and fn-med oolitic, abundant med and coarse veiny calcite thru-out, fossilif, soem chalk laced

Is cream to med and coarsely oolitic and med to very coarsely oomoldic, subopaque ls gry matrix, assoc. chert gry-brn, fresh, opaque, blocky

Is cream to med and coarsely oolitic and med to very coarsely oomoldic, subopaque ls gry matrix, increase in ls tan and brn fn xln dn, assoc. chert gry-brn, fresh, opaque, blocky

DST 1) 2892-2920 (KC Swope)

Is tan-brn fn xln dn, some suboolitic

2900

Stark Shale 2903-1606

shales black and dk gry

Is brn fn oolitic in dn matrix, rare shows heavy dark brn live oil on break, flash odor with small shows of gas, occ. pcs. with tan live oil, no fluor wet or dry, sparsely sptd tan to lesser brn stain, none to slow cut

HW-55u, Recycled HW-15u

7am Mon, 4-16-18
2920-DST 1

CFS-45" CTCH 60" ADST 1

Is gry-brn fn xln dn, some suboolitic, assoc. chert cream-tan, fresh, opaque

Hush Shale 2936-1639

shales black, carb.

Is dk brn fn xln to med oolitic dn

50

Is dk brn fn xln to med oolitic dn

shales black, carb.

Is vdk brn fn xln dn, equal ls brn vfn to fn oolitic, sparse ls cream med oolitic, ringed and elongated, scattered chert brnish gry, fresh, opaque

BKC 2984-1687

shales gry, dk gry to blk

3000

shales gry, dk gry to blk

shales dk gry to blk

shales dk gry to blk

Marmaton 3030-1733

Is dk brn fn xln dn

shales dk gry, gry and blk, soft

50

shales dk gry, gry and blk, soft

RTD 3060-1763 at 12:07 am
Tues, 4-17-18
CFS-75"
TOOH F/LOGS
ELI WL Svc. on location at
3:00 am
Logging OFF Bottom at 4:00 am
LTD 3052-1755
7am Tuesday 4-17-18
3060 - running open hole logs

Short Trip 15 Stands - pulled tite
CTCH 60" - Dropped Sure Shot
Stapped Out

SHT at 2920 - 1 deg. dev.
DID NOT TAKE PIPE STRAP

MUD-CO at 2920'

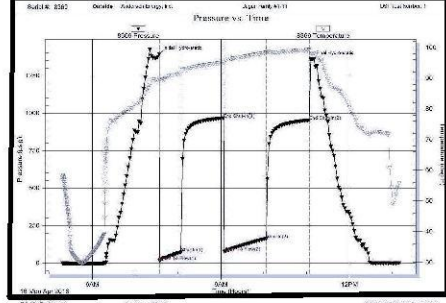
WT: 9.04, VIS: 57,
WL: 8.8, CHL: 1,500
LCM: 4#

Pipe Strap taken while TIH
After DST 1 - 2.2' short to
board

DST 1) 2897-2920 (KC Swope)
[30-60-60]
Rec: NO Gas In Pipe

70' Heavy Mud Cut Water
(61% water, 39% mud)
240' Mud Cut Water
(86% water, 14% mud)

310' Total Fluid - 306' - Drill Collars
IFP: 16-73, FFP: 77-161
BHP: 966-952



DST 1 - Chart