

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
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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)</i> <i>(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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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 1305

Cell 785-324-1041

4-19-19

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-18-19	30	7	19	Rooks	Kansas		12-57

Location WATER STK Down 3 1/4 W 1/2 N TR.

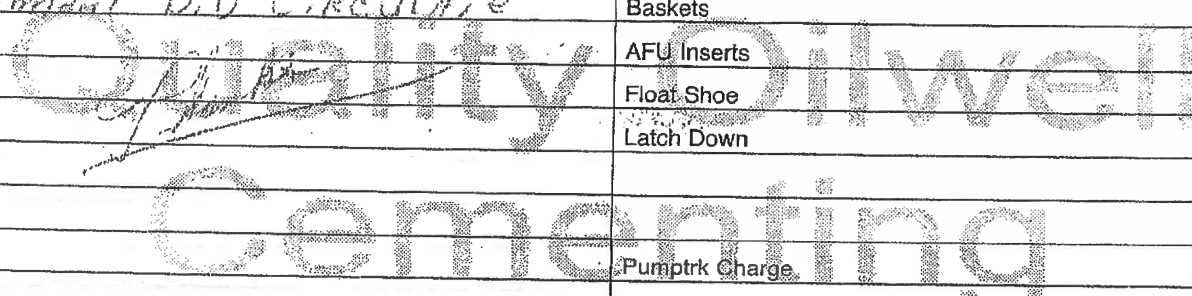
Lease	Well No.	Owner	
<u>GRIEBEL TRUST</u>	<u>#2</u>	To Quality Oilwell Cementing, Inc.	
Contractor	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.		
<u>DISCONWAY DALLG. R.G.#2 "TRAY"</u>			
Type Job	Charge To		
<u>Cement Surface</u>	<u>Tengasco Inc.</u>		
Hole Size	T.D.	Street	
<u>12 1/4</u>	<u>264</u>		
Csg. <u>8 7/8</u>	Depth	City	
	<u>264</u>	State	
Tbg. Size	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
Tool	Depth	Cement Amount Ordered <u>170 ex Com 342</u>	
Cement Left in Csg. <u>15'</u>	Shoe Joint		
Meas Line	Displace <u>15.85</u>		

EQUIPMENT

Pumptrk <u>20</u>	No.	Cementer	<u>NAV. D L</u>	Common
		Helper	<u>JACE P</u>	Poz. Mix
Bulktrk <u>7</u>	No.	Driver	<u>Colson G</u>	Gel.
		Driver		Calcium
Bulktrk	No.	Driver		
		Driver		

JOB SERVICES & REMARKS

Remarks:	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
<u>Set 8 7/8 csg @ 264'</u>	Sand
<u>NO CIRCULATION</u>	Handling
<u>Cement w/ 170 ex com 342</u>	Mileage
<u>Displace 15.85 @ 11.20</u>	FLOAT EQUIPMENT
<u>SPLIT IN @ 300#</u>	Guide Shoe
<u>Cement D.D CIRCULATE</u>	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down



X Signature [Signature]

Pumptrk Charge	Tax
Mileage	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. 1277

Date	4-25-19	Sec.	30	Twp.	7	Range	19	County	Rooks	State	Ks	On Location		Finish	4:00PM		
Lease								Griebel Trust		Well No. #2		Location Webster + 24 - 3 1/4 W, N into					
Contractor								Discovery #2		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.							
Type Job								plug		Charge To TENGASCO							
Hole Size								17 7/8"		T.D.		3565'		Street			
Csg.										Depth		3413'		City			
Tbg. Size								4 1/2" D.P.		Depth		3413'		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 305 60/40 4% Gel 1/4# Flu-seal							
Meas Line								Displace		H2O/nmd							
EQUIPMENT												Common					
Pumptrk		17	No.	Cementer		Tim		Helper		Poz. Mix							
Bulktrk		19	No.	Driver		JACK		Driver		Gel.							
Bulktrk		p.u.	No.	Driver		RICK		Driver		Calcium							
JOB SERVICES & REMARKS												Hulls					
Remarks:								3413' - 50 SX		Salt							
Rat Hole								1490' - 50 SX		Flowseal							
Mouse Hole								870' - 100 SX		Kol-Seal							
Centralizers								315' - 50 SX		Mud CLR 48							
Baskets								40' - 105x w/ plug		CFL-117 or CD110 CAF 38							
D/V or Port Collar								Rat hole w/ 30% Mousehole w/ 15 SX		Sand							
Cement did Circulate										Handling							
FLOAT EQUIPMENT												Mileage					
Guide Shoe								Dry hole plug									
Centralizer																	
Baskets																	
AFU Inserts																	
Float Shoe																	
Latch Down																	
Pumptrk Charge																	
Mileage																	
Tax																	
Discount																	
Total Charge																	
Signature								[Signature]									

Quality Oilwell Cementing



DRILL STEM TEST REPORT

Prepared For: **Tengasco, Inc.**

PO Box 458
Hays, KS 67601

ATTN: Neil Sharp

Griebel Trust #2

30-7S-19W Rooks,KS

Start Date: 2019.04.23 @ 11:46:00

End Date: 2019.04.23 @ 18:33:30

Job Ticket #: 65927 DST #: 1

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

Printed: 2019.04.25 @ 17:01:08



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Tengasco, Inc.

30-7S-19W Rooks,KS

PO Box 458
Hays, KS 67601

Griebel Trust #2

Job Ticket: 65927

DST#: 1

ATTN: Neil Sharp

Test Start: 2019.04.23 @ 11:46:00

GENERAL INFORMATION:

Formation: **LKC I - J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:34:30

Time Test Ended: 18:33:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 77

Interval: 3322.00 ft (KB) To 3358.00 ft (KB) (TVD)

Reference Elevations: 1979.00 ft (KB)

Total Depth: 3358.00 ft (KB) (TVD)

1971.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8673 Outside

Press@RunDepth: 30.34 psig @ 3323.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.23

End Date: 2019.04.23

Last Calib.: 2019.04.23

Start Time: 11:46:05

End Time: 18:33:29

Time On Btm: 2019.04.23 @ 13:34:15

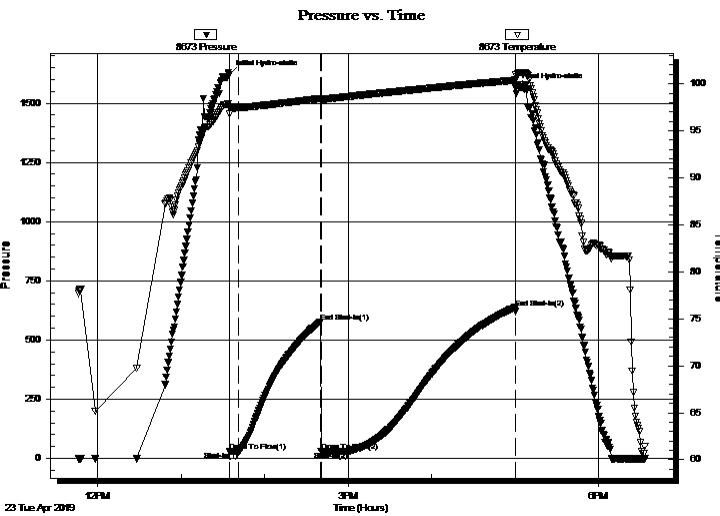
Time Off Btm: 2019.04.23 @ 17:00:30

TEST COMMENT: 5 - IFP - Surface blow built up to 1 1/4" then died off to 3/4"

60 - ISI - No Return

20 - FFP - No Surface blow

120 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1620.22	97.90	Initial Hydro-static
1	29.78	96.77	Open To Flow (1)
7	29.44	97.43	Shut-In(1)
66	575.76	98.43	End Shut-In(1)
67	29.99	98.33	Open To Flow (2)
86	30.34	98.64	Shut-In(2)
206	637.33	100.37	End Shut-In(2)
207	1565.57	100.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w / Oil Spots - 100% m	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco, Inc.

30-7S-19W Rooks,KS

PO Box 458
Hays, KS 67601

Griebel Trust #2

Job Ticket: 65927

DST#: 1

ATTN: Neil Sharp

Test Start: 2019.04.23 @ 11:46:00

Tool Information

Drill Pipe:	Length: 3036.00 ft	Diameter: 3.25 inches	Volume: 31.15 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 278.00 ft	Diameter: 2.75 inches	Volume: 2.04 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 33.19 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3322.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	64.00 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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Shut In Tool	5.00			3299.00	
Hydraulic tool	5.00			3304.00	
Jars	5.00			3309.00	
Safety Joint	3.00			3312.00	
Packer	5.00			3317.00	28.00 Bottom Of Top Packer
Packer	5.00			3322.00	
Stubb	1.00			3323.00	
Recorder	0.00	8360	Inside	3323.00	
Recorder	0.00	8673	Outside	3323.00	
Perforations	32.00		Outside	3355.00	
Bullnose	3.00			3358.00	36.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco, Inc.

30-7S-19W Rooks,KS

PO Box 458
Hays, KS 67601

Griebel Trust #2

Job Ticket: 65927

DST#: 1

ATTN: Neil Sharp

Test Start: 2019.04.23 @ 11:46:00

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud w / Oil Spots - 100% _m	0.147

Total Length: 20.00 ft Total Volume: 0.147 bbl

Num Fluid Samples: 0

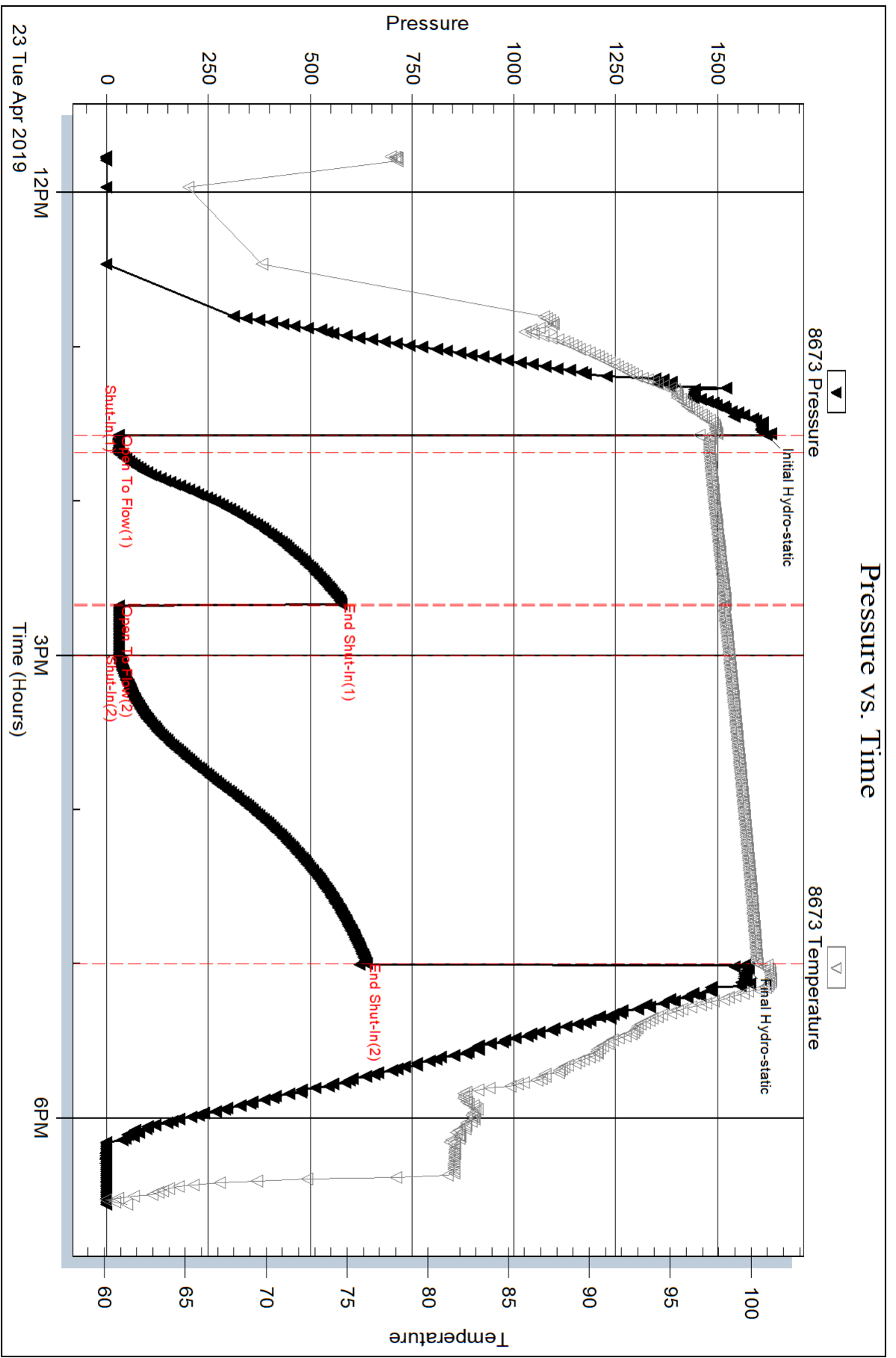
Num Gas Bombs: 0

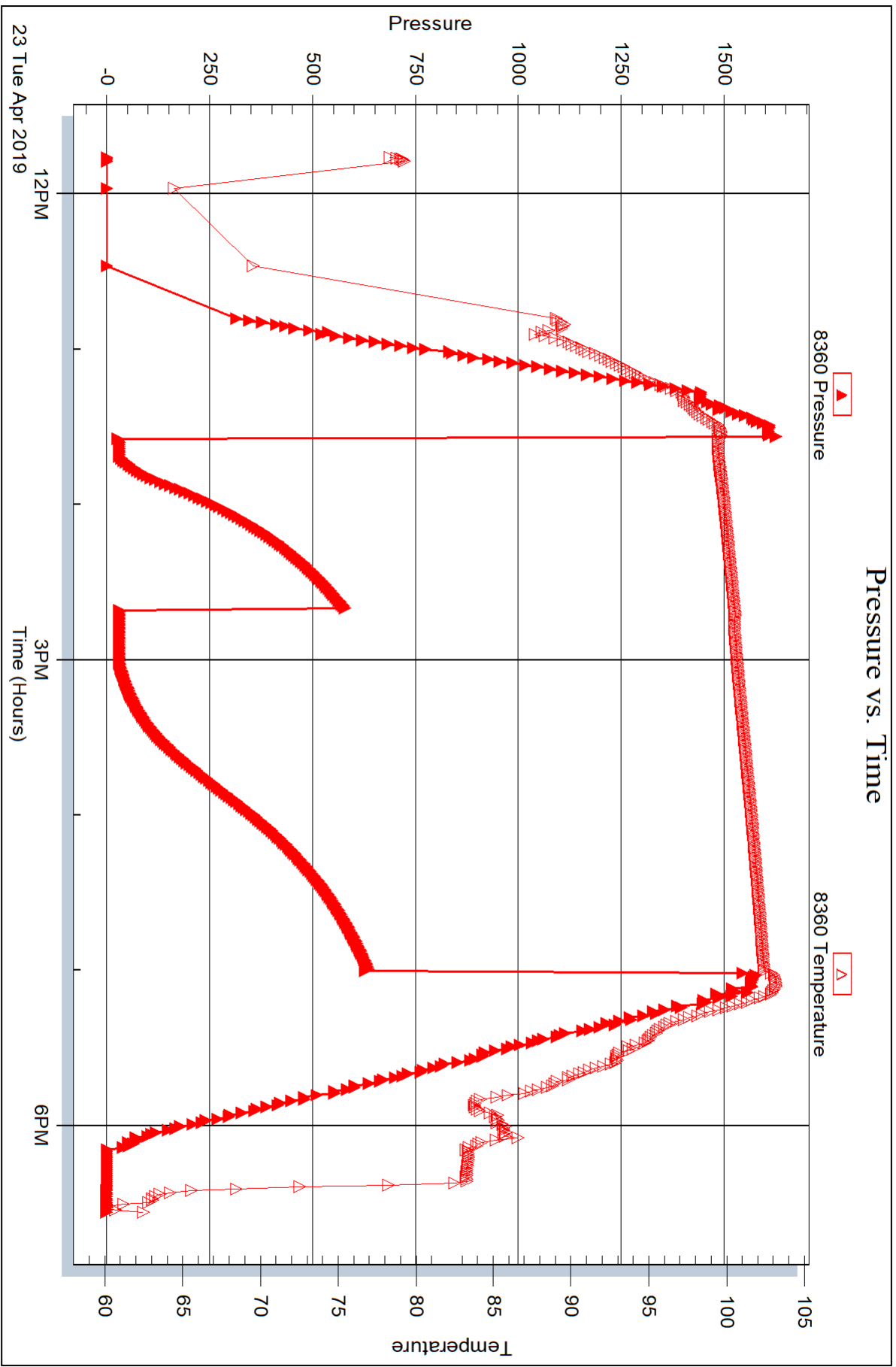
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Tengasco, Inc.**

PO Box 458
Hays, KS 67601

ATTN: Neil Sharp

Griebel Trust #2

30-7S-19W Rooks,KS

Start Date: 2019.04.24 @ 09:22:00

End Date: 2019.04.24 @ 16:13:45

Job Ticket #: 65928 DST #: 2

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

Printed: 2019.04.25 @ 16:51:40



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Tengasco, Inc.

30-7S-19W Rooks,KS

PO Box 458
Hays, KS 67601

Griebel Trust #2

Job Ticket: 65928

DST#: 2

ATTN: Neil Sharp

Test Start: 2019.04.24 @ 09:22:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:04:15

Time Test Ended: 16:13:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 77

Interval: **3424.00 ft (KB) To 3454.00 ft (KB) (TVD)**

Reference Elevations: 1979.00 ft (KB)

Total Depth: 3454.00 ft (KB) (TVD)

1971.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8673 Outside

Press@RunDepth: 18.58 psig @ 3425.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.24 End Date: 2019.04.24

Last Calib.: 2019.04.24

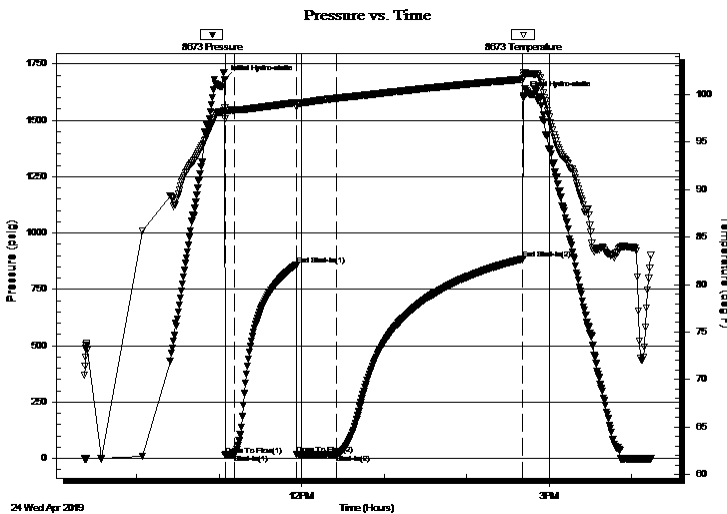
Start Time: 09:22:05 End Time: 16:13:44

Time On Btm: 2019.04.24 @ 11:04:00

Time Off Btm: 2019.04.24 @ 14:41:15

TEST COMMENT: 5 - IFP - Surface blow stayed at a weak blow
45 - ISI - No Return
30 - FFP - No Surface blow
135 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1679.05	98.63	Initial Hydro-static
1	15.67	97.47	Open To Flow (1)
7	16.82	98.37	Shut-In(1)
52	857.58	99.16	End Shut-In(1)
53	17.63	98.68	Open To Flow (2)
82	18.58	99.62	Shut-In(2)
217	885.19	101.62	End Shut-In(2)
218	1607.67	102.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w / Oil Spots - 100% m	0.04

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco, Inc.

30-7S-19W Rooks,KS

PO Box 458
Hays, KS 67601

Griebel Trust #2

Job Ticket: 65928

DST#: 2

ATTN: Neil Sharp

Test Start: 2019.04.24 @ 09:22:00

Tool Information

Drill Pipe:	Length: 3129.84 ft	Diameter: 3.25 inches	Volume: 32.11 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 278.78 ft	Diameter: 2.75 inches	Volume: 2.05 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume:</u> 34.16 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.62 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	3424.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	58.00 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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Shut In Tool	5.00			3401.00	
Hydraulic tool	5.00			3406.00	
Jars	5.00			3411.00	
Safety Joint	3.00			3414.00	
Packer	5.00			3419.00	28.00 Bottom Of Top Packer
Packer	5.00			3424.00	
Stubb	1.00			3425.00	
Recorder	0.00	8360	Inside	3425.00	
Recorder	0.00	8673	Outside	3425.00	
Perforations	26.00		Outside	3451.00	
Bullnose	3.00			3454.00	30.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco, Inc.

30-7S-19W Rooks,KS

PO Box 458
Hays, KS 67601

Griebel Trust #2

Job Ticket: 65928

DST#: 2

ATTN: Neil Sharp

Test Start: 2019.04.24 @ 09:22:00

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: 7.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w / Oil Spots - 100% _m	0.037

Total Length: 5.00 ft Total Volume: 0.037 bbl

Num Fluid Samples: 0

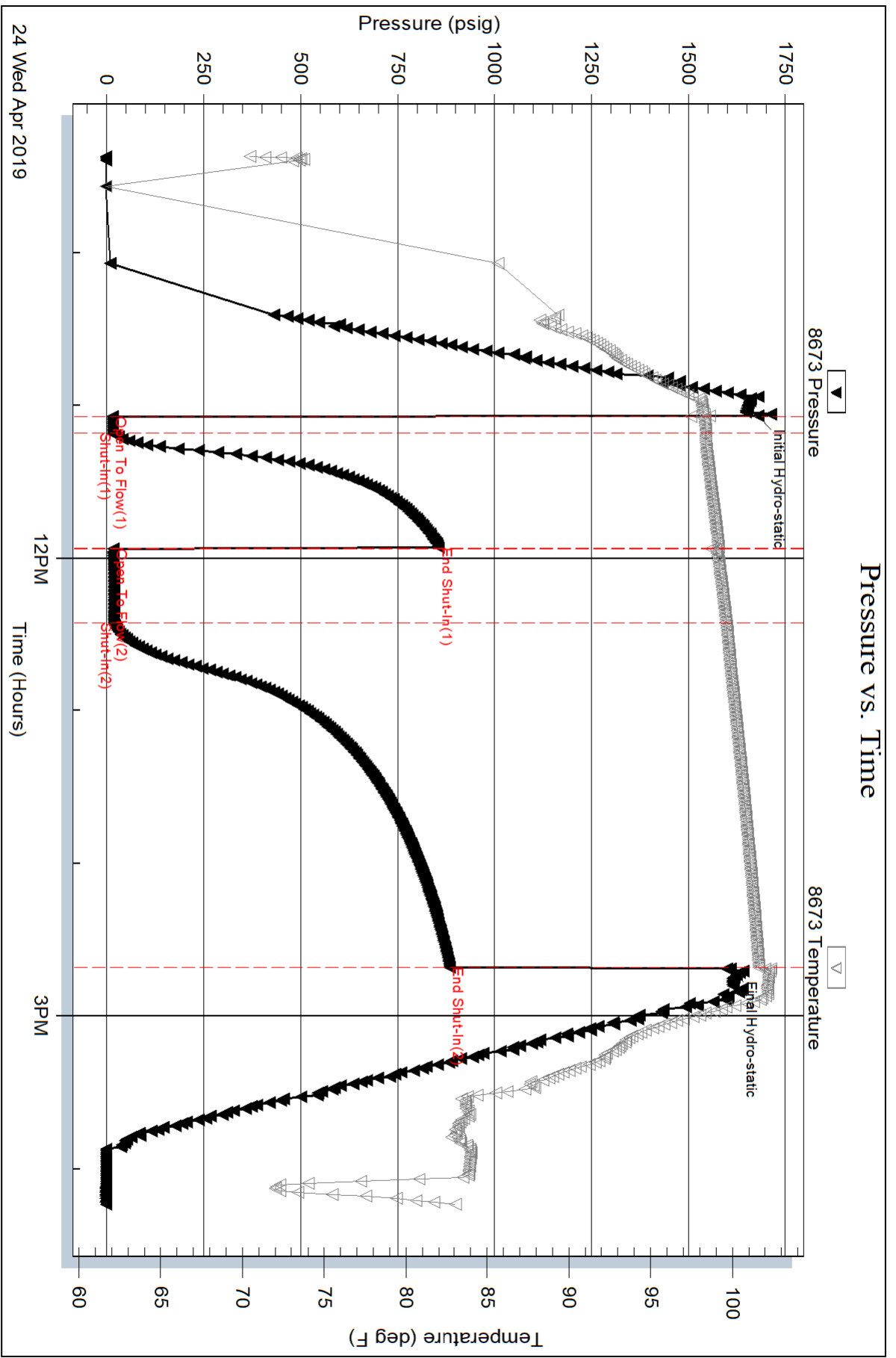
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



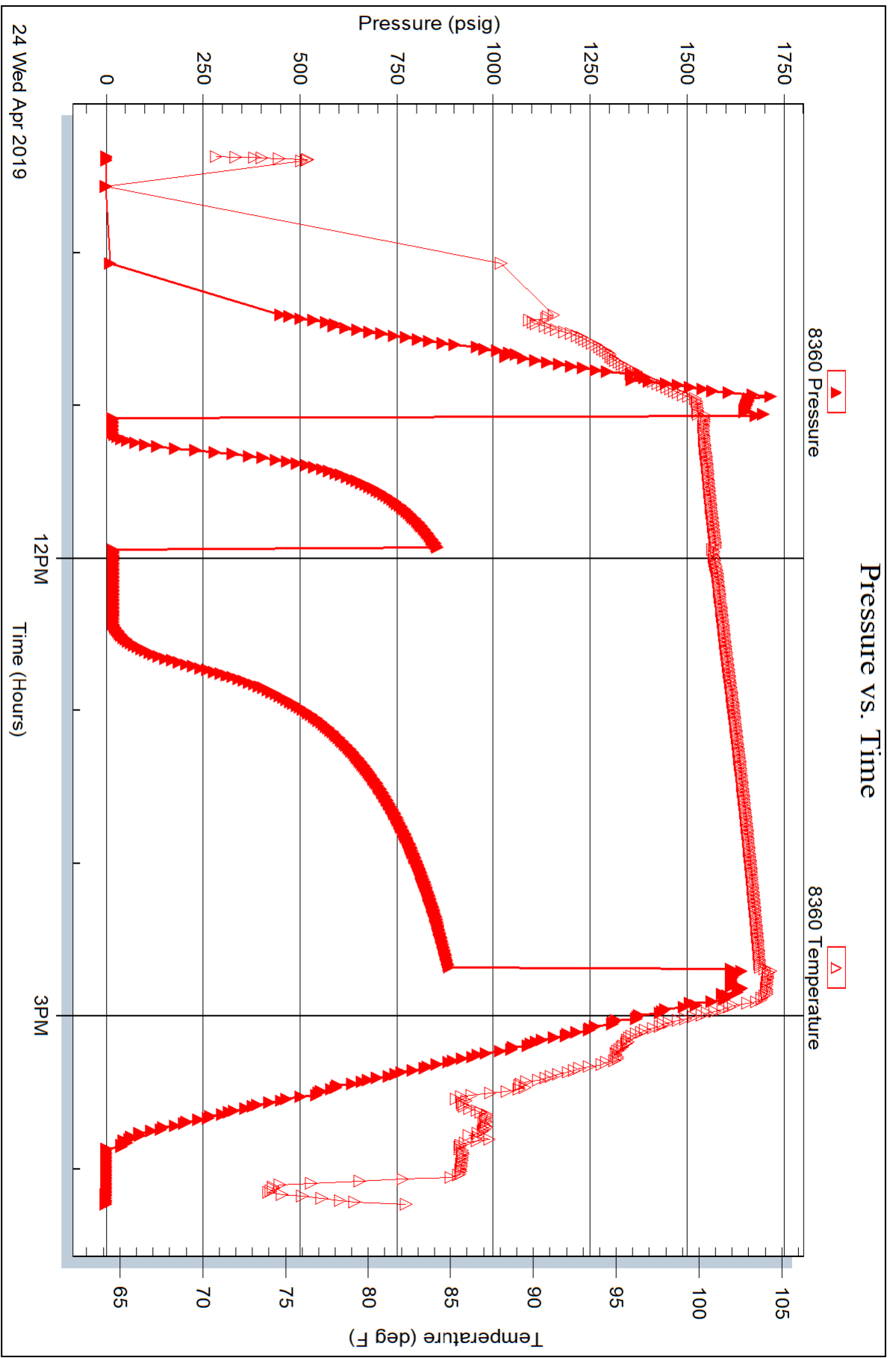
Serial #: 8360

Inside

Tengasco, Inc.

Griebel Trust#2

DST Test Number: 2



24 Wed Apr 2019

Trilobite Testing, Inc

Ref. No: 65928

Printed: 2019.04.25 @ 16:51:41



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 65927

NO.

Well Name & No. Griebel Trust #2 Test No. 1 Date 4-23-19
 Company Tengasco, Inc. Elevation 1979' KB 1971' GL
 Address 1327 Noose Rd PO Box 458 Hays Ks 67601
 Co. Rep / Geo. Neil Sharp Rig Discovery #2
 Location: Sec. 30 Twp 7S Rge. 19W Co. Boonville State Ks

Interval Tested 3322'-3358' Zone Tested Lansing IPT
 Anchor Length 36' Drill Pipe Run 3030' Mud Wt. 9.0
 Top Packer Depth 3317' Drill Collars Run 0 Vis 59
 Bottom Packer Depth 3322' Wt. Pipe Run 278.78' WL 6.4
 Total Depth 3358' Chlorides 5,000 ppm System LCM 2#
 Blow Description IFP - Built up to 1 1/4" then died to 3/4"
ISI - No Return
FFP - No surface blow
FST - No Return

Rec	Feet of	%gas	Spots	%oil	%water	%mud
<u>20'</u>	<u>asm</u>				<u>100</u>	
Rec	Feet of	%gas		%oil	%water	%mud
Rec	Feet of	%gas		%oil	%water	%mud
Rec	Feet of	%gas		%oil	%water	%mud
Rec	Feet of	%gas		%oil	%water	%mud

Rec Total 20' BHT 100°F Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1620 Test 1200 T-On Location 10:30am
 (B) First Initial Flow 30 Jars 250 T-Started 11:46am
 (C) First Final Flow 30 Safety Joint 75 T-Open 1:35pm
 (D) Initial Shut-In 576 Circ Sub _____ T-Pulled 5:00pm
 (E) Second Initial Flow 30 Hourly Standby _____ T-Out 6:34pm
 (F) Second Final Flow 30 Mileage 102 R/T 102 Comments _____
 (G) Final Shut-In 637 Sampler _____
 (H) Final Hydrostatic 1566 Straddle _____ EM Tool _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1627
 Sub Total 1627 MP/DST Disc't _____

Approved By _____ Our Representative Neil Sharp
 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 65928

NO.

Well Name & No. Griebel Trust #2 Test No. 2 Date 4-24-19
 Company Tempasco, Inc. Elevation 1979' KB 1971' GL
 Address 1327 Nbase Rd P.O. Box 458 Hays Ks 67601
 Co. Rep / Geo. Neil Sharp Rig Discovery #2
 Location: Sec. 30 Twp 7S Rge. 19W Co. Rooks State Ks

Interval Tested 3424' - 3454' Zone Tested Arbuckle
 Anchor Length 30' Drill Pipe Run 3129.84 Mud Wt. 9.2
 Top Packer Depth 3419' Drill Collars Run 0 Vis 53
 Bottom Packer Depth 3424' Wt. Pipe Run 278.78 WL 7.4
 Total Depth 3454' Chlorides 3600 ppm System LCM 2#

Blow Description IIP - Surface blow stayed at a weak blow
ISI - No Return
FFP - No Surface blow
FST - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>ASM</u>	<u>spots</u>		<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5' BHT 102°F Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 11679 Test 1200 T-On Location 9:00 am
 (B) First Initial Flow 16 Jars 250 T-Started 9:22 am
 (C) First Final Flow 17 Safety Joint 75 T-Open 11:05 am
 (D) Initial Shut-In 858 Circ Sub _____ T-Pulled 2:40 pm
 (E) Second Initial Flow 18 Hourly Standby _____ T-Out 4:17 pm
 (F) Second Final Flow 19 Mileage 102 R/T 204 Comments loaded tool
 (G) Final Shut-In 885 Sampler _____ 4:25-19 from 12:45 am
 (H) Final Hydrostatic 11608 Straddle _____ to 12 am
 EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 5 Extra Packer _____
 Initial Shut-In 45 Extra Recorder _____
 Final Flow 30 Day Standby _____
 Final Shut-In 135 Accessibility _____
 Sub Total 1729 Sub Total _____
 Total 1729 MP/DST Disc't _____

Approved By _____ Our Representative Royal [Signature]

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.



Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: GRIEBEL TRUST #2
Well Id:
Location: SW, NE Sec. 30 - 7S - 19W Rooks Co., KS
License Number: 15-163-24389-0000
Spud Date: 04/18/19
Surface Coordinates: 1980' FNL, 1980' FEL
Region: Reservoir NW
Drilling Completed: 04/25/19

Bottom Hole Coordinates: 264': 3/4 DEG, 3358': 1 1/2 DEG, 3565': 2 DEG
Ground Elevation (ft): 1970' K.B. Elevation (ft): 1978'
Logged Interval (ft): 2800' To: 3565' Total Depth (ft): 3565'
Formation: L/KC, ARBUKLE
Type of Drilling Fluid: Chemical Mud

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: TENGASCO, INC.
Address: 1327 Noose Rd.
Hays, KS 67601
Co. Geo.: Mr. Neil Sharp

GEOLOGIST

Name: Justin D. Carter
Company: Consulting Geologist
Address: 1640 N. Roosevelt Ave.
Liberal, KS 67901
Phone: 620-655-1187



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Tengasco, Inc.
 1327 Noose Rd P.O. Box 458
 Hays, Ks 67601
 ATTN: Neil Sharp

30 - 7S - 19W
Griebel Trust #2
 Job Ticket: 65927 **DST#: 1**
 Test Start: 2019.04.23 @ 11:46:00

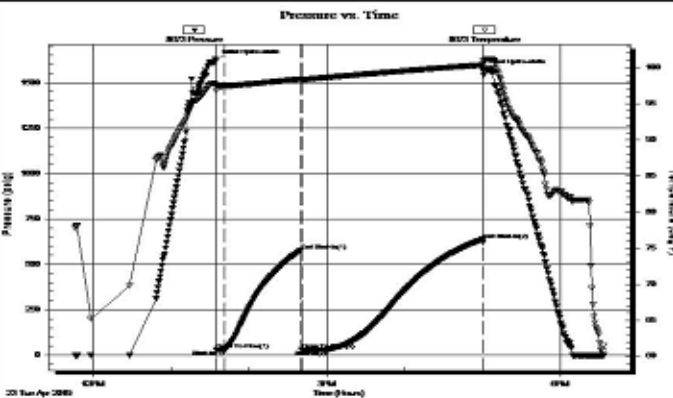
GENERAL INFORMATION:

Formation: **Lansing I & J**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 13:34:30
 Tester: Royal Fisher
 Time Test Ended: 18:33:30
 Unit No: #77
 Interval: **3322.00 ft (KB) To 3358.00 ft (KB) (TVD)**
 Reference Elevations: 1979.00 ft (KB)
 Total Depth: 3358.00 ft (KB) (TVD)
 1971.00 ft (CF)
 Hole Diameter: 7.88 inches-Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8673

Press@RunDepth: 30.34 psig @ 3323.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.04.23 End Date: 2019.04.23 Last Calib.: 2019.04.23
 Start Time: 11:46:05 End Time: 18:33:29 Time On Btm: 2019.04.23 @ 13:34:15
 Time Off Btm: 2019.04.23 @ 17:00:30

TEST COMMENT: 5 - IFP - Surface blow built up to 1 1/4" then died off to 3/4"
 60 - ISI - No Return
 20 - FFP - No Surface blow
 120 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1620.22	97.90	Initial Hydro-static
1	29.78	96.77	Open To Flow (1)
7	29.44	97.43	Shut-in(1)
66	575.76	98.43	End Shut-In(1)
67	29.99	98.33	Open To Flow (2)
86	30.34	98.64	Shut-in(2)
206	637.33	100.37	End Shut-In(2)
207	1565.57	100.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OSM - Oil Spots - 100% m	0.15

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Tengasco, Inc.
 1327 Noose Rd P.O. Box 458
 Hays, Ks 67601
 ATTN: Neil Sharp

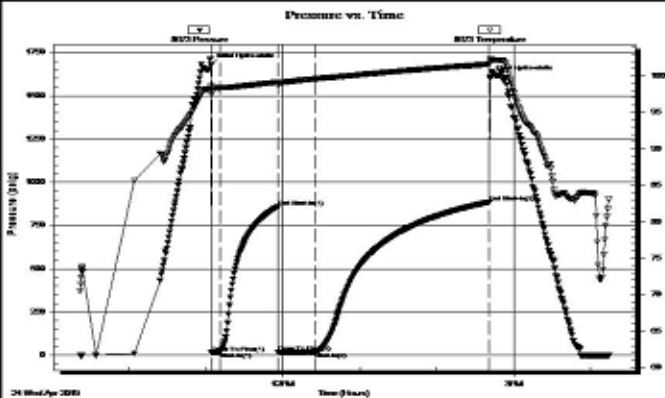
30 - 7S - 19W
Griebel Trust #2
 Job Ticket: 65928 **DST#: 2**
 Test Start: 2019.04.24 @ 09:22:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:04:15
 Time Test Ended: 16:13:45
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Royal Fisher
 Unit No: #77
 Interval: **3424.00 ft (KB) To 3454.00 ft (KB) (TVD)**
 Total Depth: 3454.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Reference Elevations: 1979.00 ft (KB)
 1971.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8673 Outside
 Press@RunDepth: 18.58 psig @ 3425.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.04.24 End Date: 2019.04.24 Last Calib.: 2019.04.24
 Start Time: 09:22:05 End Time: 16:13:44 Time On Btm: 2019.04.24 @ 11:04:00
 Time Off Btm: 2019.04.24 @ 14:41:15

TEST COMMENT: 5 - IFF - Surface blow stayed at a weak blow
 45 - ISI - No Return
 30 - FFP - No Surface blow
 135 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1679.05	98.63	Initial Hydro-static
1	15.67	97.47	Open To Flow (1)
7	16.82	98.37	Shut-In(1)
52	857.58	99.16	End Shut-In(1)
53	17.63	98.68	Open To Flow (2)
82	18.58	99.62	Shut-In(2)
217	885.19	101.62	End Shut-In(2)
218	1607.67	102.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM - Oil Spots - 100% m	0.04

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 65928

Printed: 2019.04.24 @ 16:34:39

Comments

Drilling Contractor: Discovery Drilling Rig #2
Tool Pusher: Terry Wickham

8 5/8" surface casing set at 263'

Mud: MudCo
Engineer: Gary Schmitberger

Gas Detector: Blue Stem

DSTs: Trilobite Testing
Tester: Royal Fisher

Open-Hole Loggers: Halliburton Wireline

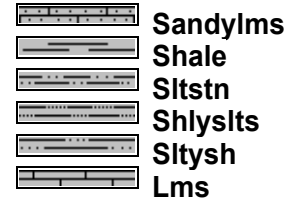
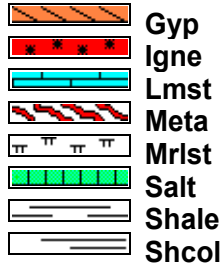
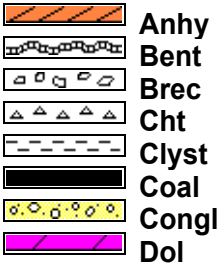
Remarks

After careful review of the sample log, electric logs, and DST reports, the decision was made to P&A the Griebel Trust #2.

Respectfully submitted,

Justin D. Carter
Consulting Geologist

ROCK TYPES

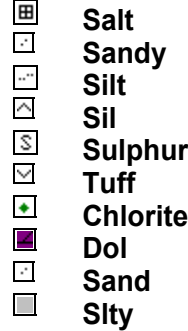


ACCESSORIES

FOSSIL



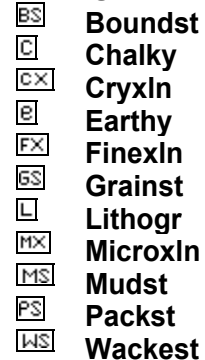
MINERAL



STRINGER



TEXTURE

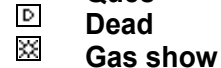


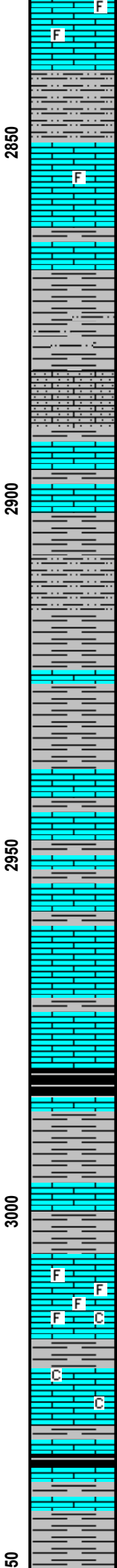
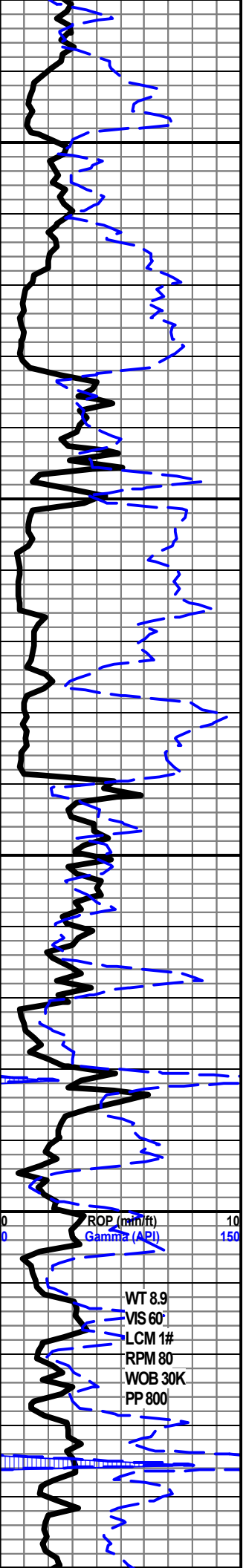
OTHER SYMBOLS

INTERVALS



OIL SHOWS





LS- GY, HRD DNS, VF-XLN, RE-XLN MTRX IP, IMBED FOSS FRAGS IP, NO FLO, NO VIS POR

SLTST- GY, TT, VF-GRNS, NO VIS POR

LS- CRM, HRD DNS, VF/CRYPTO-XLN, RE-XLN MTRX IP, TR FOSS FRAGS, NO FLO, NO VIS POR

SH- GY, FRM, BLKY, SLTY, TR GRN SLTST

SNDY LS- LT GY, HRD DNS, VF-XLN, GRNST, NO FLO, NO VIS POR

LS- GY, HRD DNS, VF-XLN, RE-XLN MTRX IP, TR IMBED FOSS FRAGS, NO FLO, NO VIS POR

SLTST- LT GY, TT, VF-GRNS, MICASH THRU, NO VIS POR

SH- GY GRN, FRM, BLKY, SLTY IP TO LMYIP

TOPEKA 2939' (-961')

LS- LT TN, HRD DNS, VF-XLN, SUCRO MTRX THRU TO TR RE-XLN MTRX, NO FLO, NO VIS POR

LS- CRM, HRD DNS, VF-XLN, RE-XLN MTRX THRU TO TR SUCRO MTRX, NO FLO, NO VIS POR

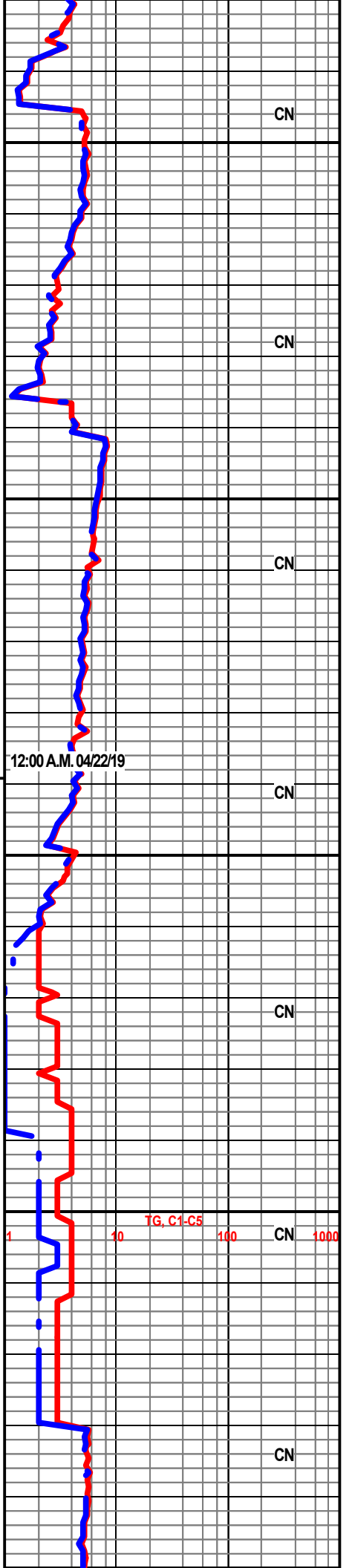
LS- CRM, BRITT TO HRD IP, MD/F-XLN, GRNST, TR IMBED BLK SH, NO FLO, PR/FR INTER-XLN POR IP, NS

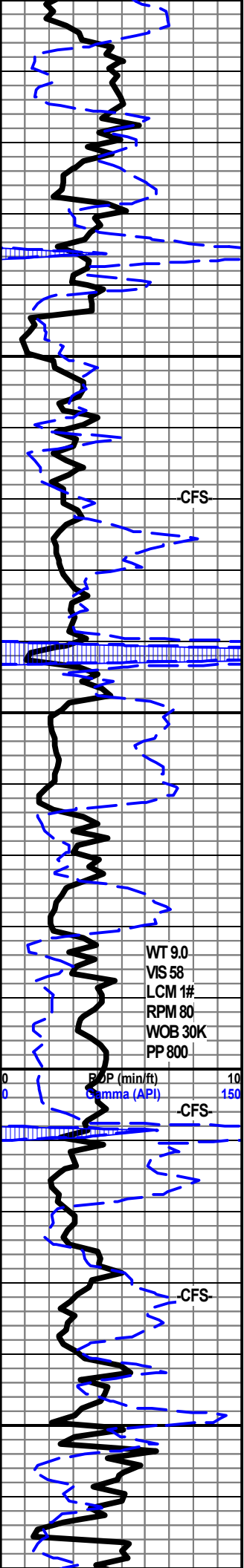
SH- DK GY, FRM, BLKY, LMY

LS- CRM, BRITT TO HRD IP, F-XLN, GRNST, IMBED FOSS FRAGS THRU, SFT WHT CHLK IP, NO FLO, PR INTER-FOSS POR THRU, NS

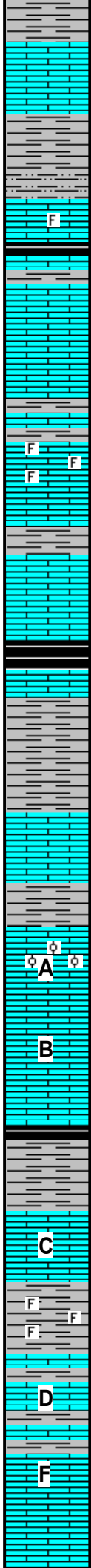
LS- CRM, BRITT, F-XLN, SUCRO MTRX THRU, TR SFT WTH CHLK, FR INTER-XLN POR SCAT THRU, NS

LS- GRN GY, FRM, BLKY, LMY





30
3100
3150
3200
3250



LS- VLT CRM, HRD DNS, CRYPTO-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR

CN

SLTST- GY, TT, VF-GRNS, NO VIS POR

LS- CRM, HRD DNS, VF-XLN, RE-XLN MTRX IP, TR IMBED FOSS FRAGS, NO FLO, NO VIS POR

CN

LS- LT CRM, HRD TO BRITT IP, F-XLN, SUCRO MTRX THRU, SLI DOLOMITZ IP, NO FLO, PR/FR INTER-XLN POR THRU, NS

LS- CRM TN, MOTT, HRD DNS, VF-XLN, RE-XLN MTRX IP, IMBED FOSS FRAGS SCAT THRU, TR BRIT YEL GLD FLO, FR FLUSH TO PR SLO BLU STRM CUT, TR INTER-FOSS POR TO TR PP POR, TR LIVE STAIN, TR FREE OIL, NO ODOR

MUD CHECK @3103'
WT 8.9
VIS 59
LCM 2#
PV 15
YP 26
PH 11.0
FIL 6.6
CAL NIL
CHL 4,900

CN

HEEBNER 3140' (-1162')

SH- RD GY, SFT, LMY, GMMY

CN

LS- LT CRM, HRD DNS, F/VF-XLN, RE-XLN MTRX THRU TO TR SUCRO MTRX, NO FLO, NO VIS POR TO TR INTER-XLN POR, NS

L/KC 3181' (-1203')

LS- WHT, BRITT TO HRD IP, F/VF-XLN, GRNST, IMBED OOL SCAT THRU, YEL GLD FLO THRU TO TR BRIT YEL GLD, FR FLUSH TO FAINT BLU STRM CUT, FR INTER-OOL POR THRU, TR STAIN, NO ODOR

27 U SHOW

CN

LS- CRM, HRD DNS, VF-XLN, RE-XLN MTRX THRU TO TR SUB-CHLKY, YEL GLD FLO IN 80%, FR FLUSH TO FAINT SLO BLU STRM CUT, FRAC POR IP TO TR INTER-VUG POR, TR TN STAIN, FAINT ODOR

1 10 100 1000
C1-C5

SH- GY DK GY, SFT TO FRM IP, BLKY, SLTYIP TO TR GMMY

CN

LS- WHT, HRD TO BRITT IP, F/VF-XLN, GRNST, IMBED OOL THRU, YEL GLD FLO THRU, FAINT FLUSH CUT, FR INTER-OOL POR SCAT THRU, TR VLT TN STAIN, NO ODOR

SH- DK GY, FRM, BLKY, LMY, IMBED FOSS FRAGS IP

LS- LT GY, HRD DNS, VF/CRYPTO-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR

CN

LS- BFF, HRD DNS, CRYPTO-XLN, RE-XLN MTRX THRU, NO FLO, NO VIS POR

LS- WHT, BRITT, VF-XLN, GRNST IP TO SUB-CHLKY MTRX IP, IMBED OOL IP, YEL GLD FLO SCAT THRU, PR FLUSH TO FAINT BLU STRM CUT, PR INTER-OOL POR IP TR TN STAIN, NO

LS- CRM, HRD DNS, CRYPTO-XLN, RE-XLN MTRX IP, NO FLO, NO VIS CUT, NO VIS POR, FAINT ODOR

LS- CRM, HRD DNS, CRYPTO-XLN, RE-XLN MTRX IP, NO FLO, NO VIS CUT, NO VIS POR, FAINT ODOR

LS- CRM, A/A

12:00 A.M. 04/23/19

CN

SH- GRN GY, FRM TO HRD IP, BLKY, LMY, IMBED FOSS FRAGS IP

LS- CRM, HRD DNS, VF-XLN, RE-XLN MTRX THRU, OPQ CHRT IP, PYR IP, OOL IP, TR SFT WHT CHLK, YEL GLD FLO IN 70%, PR FLUSH TO PR SLO BLU STRM CUT, PR INTER-XLN POR IP TO TR INTER-OOL POR, TR TN STAIN, FAINT ODOR, TR FREE OIL

CN

LS- CRM, HRD DNS, VF/CRYPTO-XLN, RE-XLN MTRX IP, IMBED OOL IP, YEL GLD FLO IN 80%, PR FLUSH TO FR SLO BLU STRM CUT, TR INTER-OOL POR TO TR VUG POR, TR TN STAIN, FAINT ODOR, GD SHOW FREE OIL

25 U SHOW

CN

LS- CRM, HRD DNS, F/VF-XLN, GRNST IP TO TR RE-XLN MTRX, TR IMBED OOL, BRIT YEL GLD FLO IN 40%, FR FLUSH TO PR SLO BLU STRM CUT, PR OOMLD POR IP TO TR MICRO PPPOR, TN STAIN IN 60%, FAINT/FR ODOR, TR FREE OIL

MUD CHECK @ 3358'

WT 9.0
VIS 59
LCM 2#
PV 18
YP 25
PH 11.0
FIL 6.4
CAL TR
CHL 5,000

CN

STRAP 0.6' SHORT TO BOARD

LS- CRM TN, HRD DNS, F/VF-XLN, RE-XLN MTRX IP TO GRNST IP, IMBED OOL IP, BRIT YEL GLD FLO IN 60%, FR FLUSH TO FR BLU STRM CUT, PR INTER-OOL POR IP TO TR INTER-XLN POR, TN STAIN IN 40%, FAINT ODOR, NSFO

12:00 A.M. 04/24/19

BKC 3389' (-1411')

SH- RD GY, FRM, BLKY, SLTY

SH- RD, FRM, BLKY, SLT, SLTST IP

LS- LT CRM, HRD DNS, CRYPTO-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR

SNDY LS- RDISH CRM, HRD DNS, VF-XLN, SUCRO MTRX THRU, NO FLO, NO VIS POR

SH- RD, SFT, GMMY, CONGL

ARBUCKLE 3436' (-1458')

DOLO- BFF RDISH, HRD DNS, F-XLN, SUCRO MTRX THRU, NO FLO, TR INTER-VUG POR TO NO VIS POR IP, NS

DOLO- RDISH WHT, HRD DNS, MD/F-XLN, SUCRO MTRX THRU, TR BRIT YEL GLD FLO, GD FLUSH TO FR BLU STRM CUT, PR/FR INTER-XLN POR IP, LIVE BLK STAIN IN 50%, FAINT ODOR, TR FREE OIL

CN

3448' DOLO- RDISH WHT, HRD DNS, MD/F-XLN, SUCRO MTRX THRU, PYR IP, NO FLO TO BRIT YEL GLD FLO WHEN CUT, FR FLUSH TO PR SLO BLU STRM CUT, PR/FR INTER-XLN POR IP, TR RESID STAIN TO LIVE OIL STAIN IP, FAINT ODOR, TR FREE OIL

MUD CHECK @ 3454'

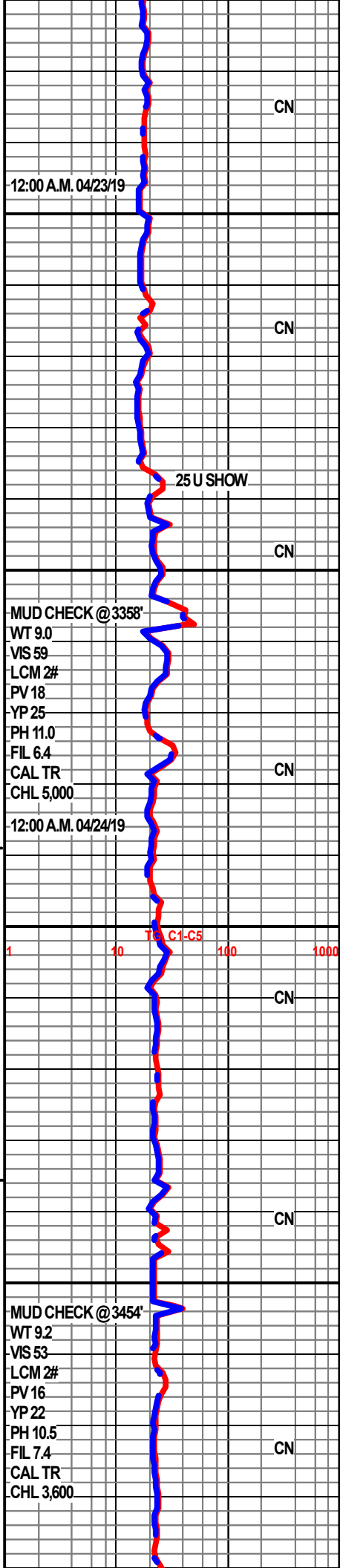
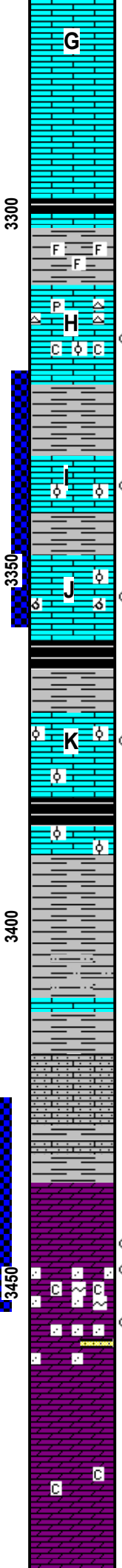
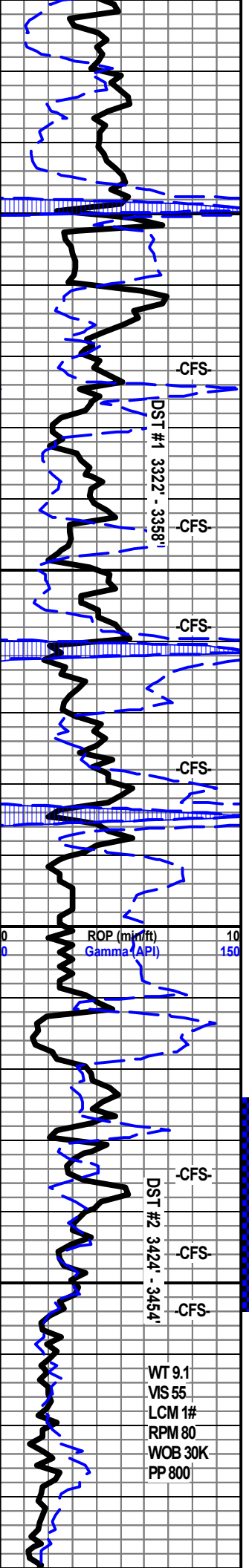
WT 9.2
VIS 53
LCM 2#
PV 16
YP 22
PH 10.5
FIL 7.4
CAL TR
CHL 3,600

CN

3460' SNDY DOLO- CRM CLR, BRIT TO HRD IP, MD/VF-XLN, SUCRO MTRX THRU, IMBED CLR RND QTZ GRNS SCAT THRU, TR MD RND QTZ CLUSTERS, GLAUC IP, TR YEL GLD FLO, FR FLUSH TO FAINT BLU STRM CUT, FR INTER-XLN POR THRU, TR BLK RESID STAIN, NO ODOR

3470' DOLO- CRM, HRD DNS, MD/F-XLN, SUCRO MTRX THRU, TR GLAUC, NO FLO, NO VIS CUT, FR INTER-XLN POR THRU, NS

3480' DOLO- CRM BFF, HRD DNS, MD/F-XLN, SUCRO MTRX THRU, TR SFT WHT CHLK, NO FLO, FR INTER-XLN POR THRU, NS



CLR, NO FLO, FR INTER-XLN POR THRU, NS

DOLO SS- LT CRM, HRD DNS, CORSE/F-GRNS, PR SRT, RND/SUB-RND GRNS, SILI CMNT, SUCRO DOLO SCAT THRU, GLAUC IP, NO FLO, FR/GD INTER-GRN POR THRU, TR BLK RESID OIL, NO ODOR

SS- CLR, FRI, CORSE/MD-GRNS, FR SRT, RND GRNS, SILI CMNT, NO FLO, NO VIS CUT, GD INTER-GRN POR THRU, NS

QTZITE- CLR RD, A/A

PRECAMBRIAN 3540' (-1562')

QTZITE- RDISH CLR, HRD DNS, RE-XLN MTRX THRU, LAM BLK SH THRU, FRAC POR

QTZITE- A/A

FINISH E-LOGS @7:30 A.M. 04/25/19

CN

CN

12:15 A.M. 04/25/19

3500

3550

00

R.T.D. 3565'

L.T.D. 3565'

