

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](mailto: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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Form	ACO1 - Well Completion
Operator	Younger Energy Company
Well Name	DISQUE L "21" 2
Doc ID	1684752

All Electric Logs Run

Dual Induction
Compensated Density/Neutron PE
Micro
Sonic
Dual Receiver Cement Bon

Form	ACO1 - Well Completion
Operator	Younger Energy Company
Well Name	DISQUE L "21" 2
Doc ID	1684752

Tops

Name	Top	Datum
King Hill	2758	-893
Queen Hill	2833	-968
Heebner	2914	-1049
Douglas	2945	-1080
Brown Lime	3020	-1155
Lansing	3032	-1167
B/KC	3294	-1429
Arbuckle	3299	-1434





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Younger Energy Co.  
9415 E Harry St. Suite403  
Wichita KS. 67207  
ATTN: Keath Reavis

**23-17S-11W/ Barton**  
**Disque 21-2**  
Job Ticket: 65071 **DST#: 1**  
Test Start: 2022.10.15 @ 16:04:00

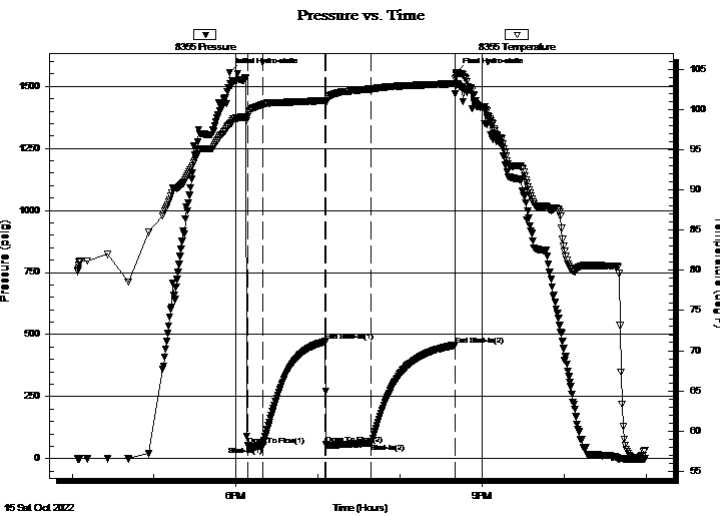
## GENERAL INFORMATION:

Formation: **Lansing H**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 18:08:30  
Time Test Ended: 22:58:45  
Interval: **3156.00 ft (KB) To 3194.00 ft (KB) (TVD)**  
Total Depth: 3194.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Richie Samora  
Unit No: 66  
Reference Elevations: 1865.00 ft (KB)  
1857.00 ft (CF)  
KB to GR/CF: 8.00 ft

## Serial #: 8355

Press@RunDepth: 62.12 psig @ ft (KB) Capacity: 8000.00 psig  
Start Date: 2022.10.15 End Date: 2022.10.15 Last Calib.: 1899.12.30  
Start Time: 16:04:05 End Time: 22:58:44 Time On Btm: 2022.10.15 @ 17:55:15  
Time Off Btm: 2022.10.15 @ 20:41:00

TEST COMMENT: 10-IF: Strong blow BOB in 3:30, built to 29.85"  
45-ISI: No blow back  
30-FF: Strong blow BOB in 30 seconds, built to 58"  
60-FSI: No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1556.17	98.22	Initial Hydro-static
14	52.65	99.15	Open To Flow (1)
25	49.83	100.67	Shut-In(1)
70	472.26	101.19	End Shut-In(1)
71	58.10	101.07	Open To Flow (2)
104	62.12	102.60	Shut-In(2)
165	457.00	103.27	End Shut-In(2)
166	1556.07	104.41	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	OSM 20% O 80%M	0.88
35.00	OSM 5%O 95%M	0.49
0.00	973 GIP	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Younger Energy Co.

**23-17S-11W/ Barton**

9415 E Harry St. Suite403  
Wichita KS. 67207

**Disque 21-2**

Job Ticket: 65071

**DST#: 1**

ATTN: Keath Reavis

Test Start: 2022.10.15 @ 16:04:00

## 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	OSM 20% O 80%M	0.884
35.00	OSM 5%O 95%M	0.491
0.00	973 GIP	0.000

Total Length: 98.00 ft      Total Volume: 1.375 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

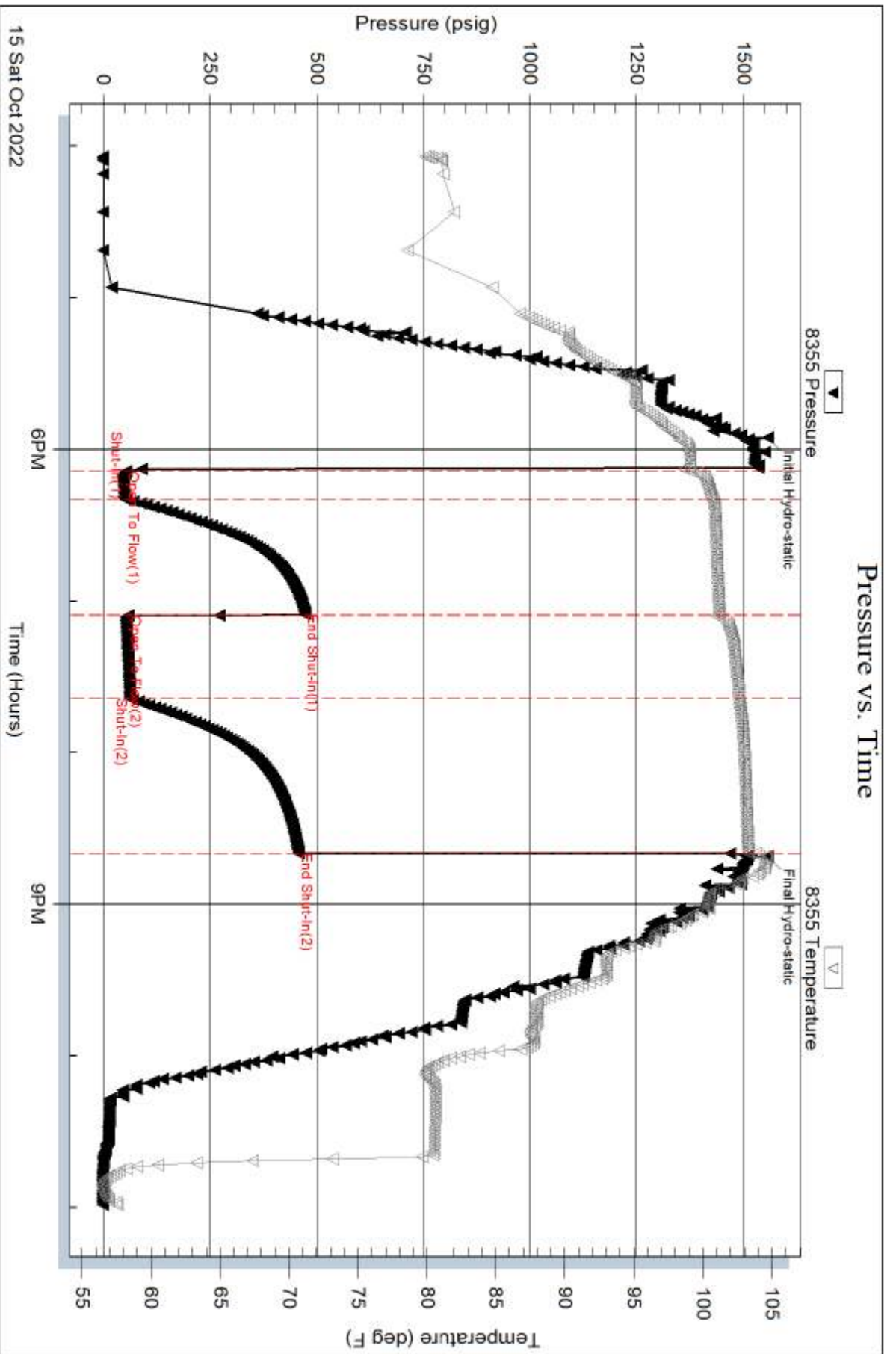
Serial #:

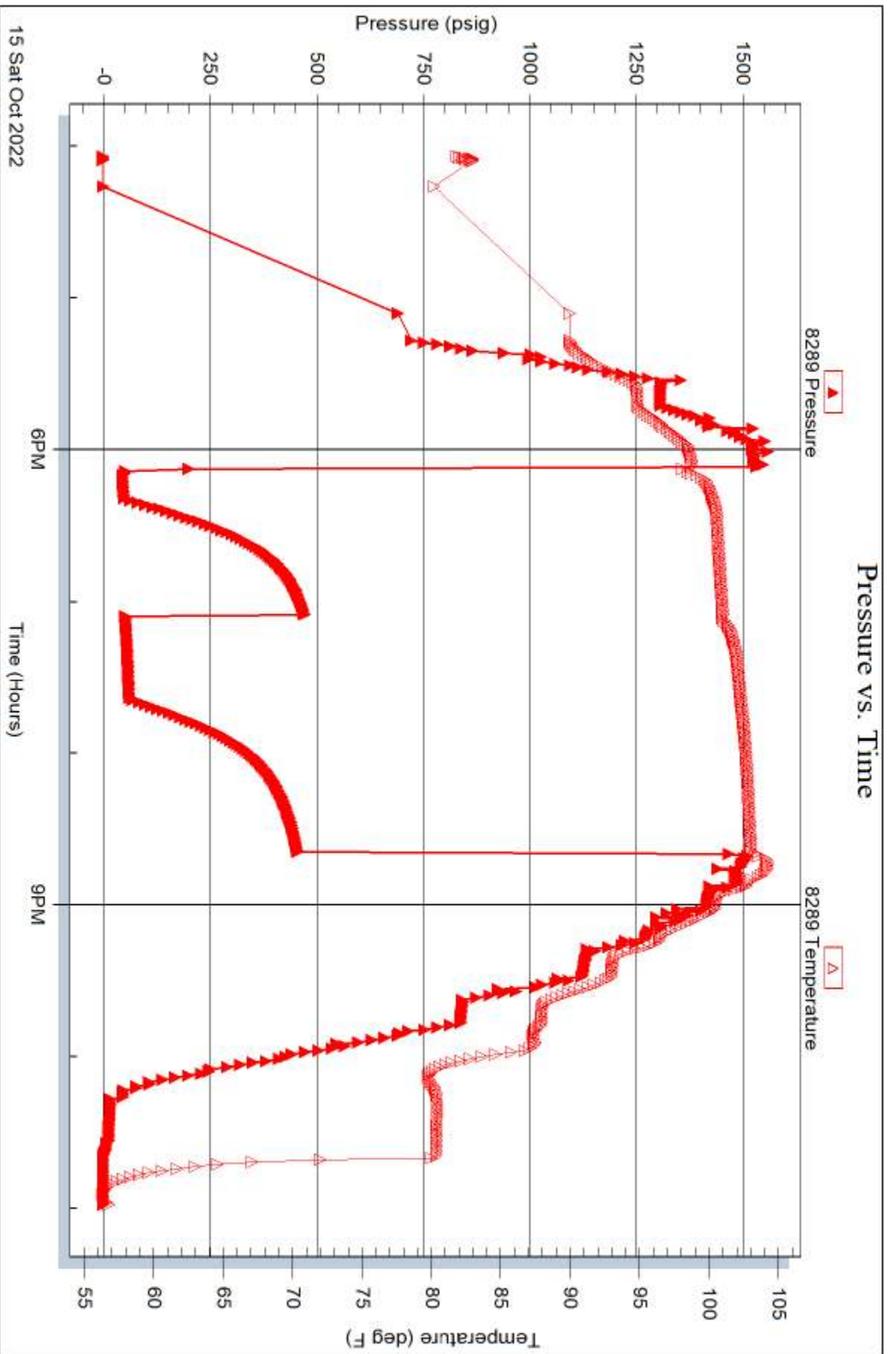
Laboratory Name:

Laboratory Location:

Recovery Comments:







15 Sat Oct 2022



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Younger Energy Co.  
9415 E Harry St. Suite403  
Wichita KS. 67207  
ATTN: Keath Reavis

**23-17S-11W/ Barton**  
**Disque 21-2**  
Job Ticket: 65072 **DST#: 2**  
Test Start: 2022.10.16 @ 15:05:00

## GENERAL INFORMATION:

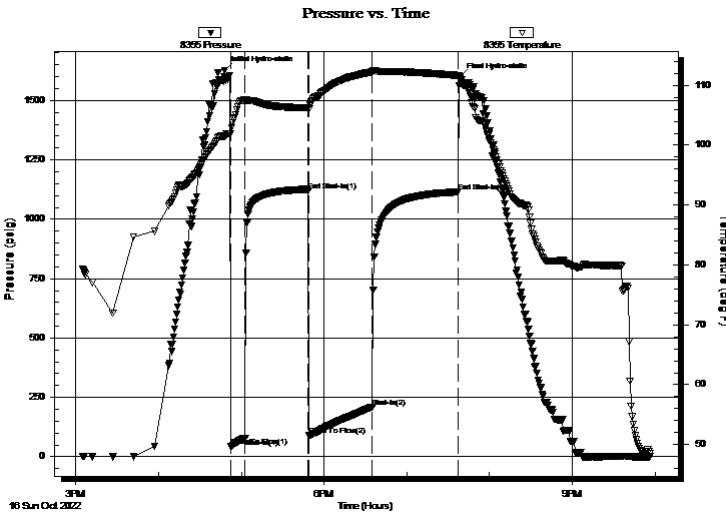
Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 16:52:15 Tester: Richie Samora  
Time Test Ended: 21:56:15 Unit No: 66  
**Interval: 3285.00 ft (KB) To 3319.00 ft (KB) (TVD)** Reference Elevations: 1865.00 ft (KB)  
Total Depth: 3194.00 ft (KB) (TVD) 1857.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

## Serial #: 8355

Press@RunDepth: 209.57 psig @ ft (KB) Capacity: 8000.00 psig  
Start Date: 2022.10.16 End Date: 2022.10.16 Last Calib.: 1899.12.30  
Start Time: 15:05:05 End Time: 21:56:14 Time On Btm: 2022.10.16 @ 16:48:00  
Time Off Btm: 2022.10.16 @ 19:38:30

**TEST COMMENT:** 10-IF: Strong blow BOB in 8 minutes, built to 14.13"  
45-ISI: No blow back  
45-FF: Strong blow BOB in 11 minutes, built to 28.07"  
60-FSI: No Blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1626.80	101.53	Initial Hydro-static
5	42.75	101.90	Open To Flow (1)
15	78.39	107.43	Shut-In(1)
61	1119.84	106.25	End Shut-In(1)
62	88.72	106.10	Open To Flow (2)
107	209.57	112.23	Shut-In(2)
170	1115.43	111.64	End Shut-In(2)
171	1598.76	111.04	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	WM 85%W 15%M	0.88
63.00	GOCM 10%G 45%O 30%W 15%M	0.88
252.00	HOCM 30%O 70%M	3.53
171.00	GO 10%G 90%O	2.40
120.00	GIP 100%G	1.68

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Younger Energy Co.

**23-17S-11W/ Barton**

9415 E Harry St. Suite403  
Wichita KS. 67207

**Disque 21-2**

Job Ticket: 65072

**DST#: 2**

ATTN: Keath Reavis

Test Start: 2022.10.16 @ 15:05:00

## 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: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
63.00	WM 85%W 15%M	0.884
63.00	GOCM 10%G 45%O 30%W 15%M	0.884
252.00	HOCM 30%O 70%M	3.535
171.00	GO 10%G 90%O	2.399
120.00	GIP 100%G	1.683

Total Length: 669.00 ft

Total Volume: 9.385 bbl

Num Fluid Samples: 0

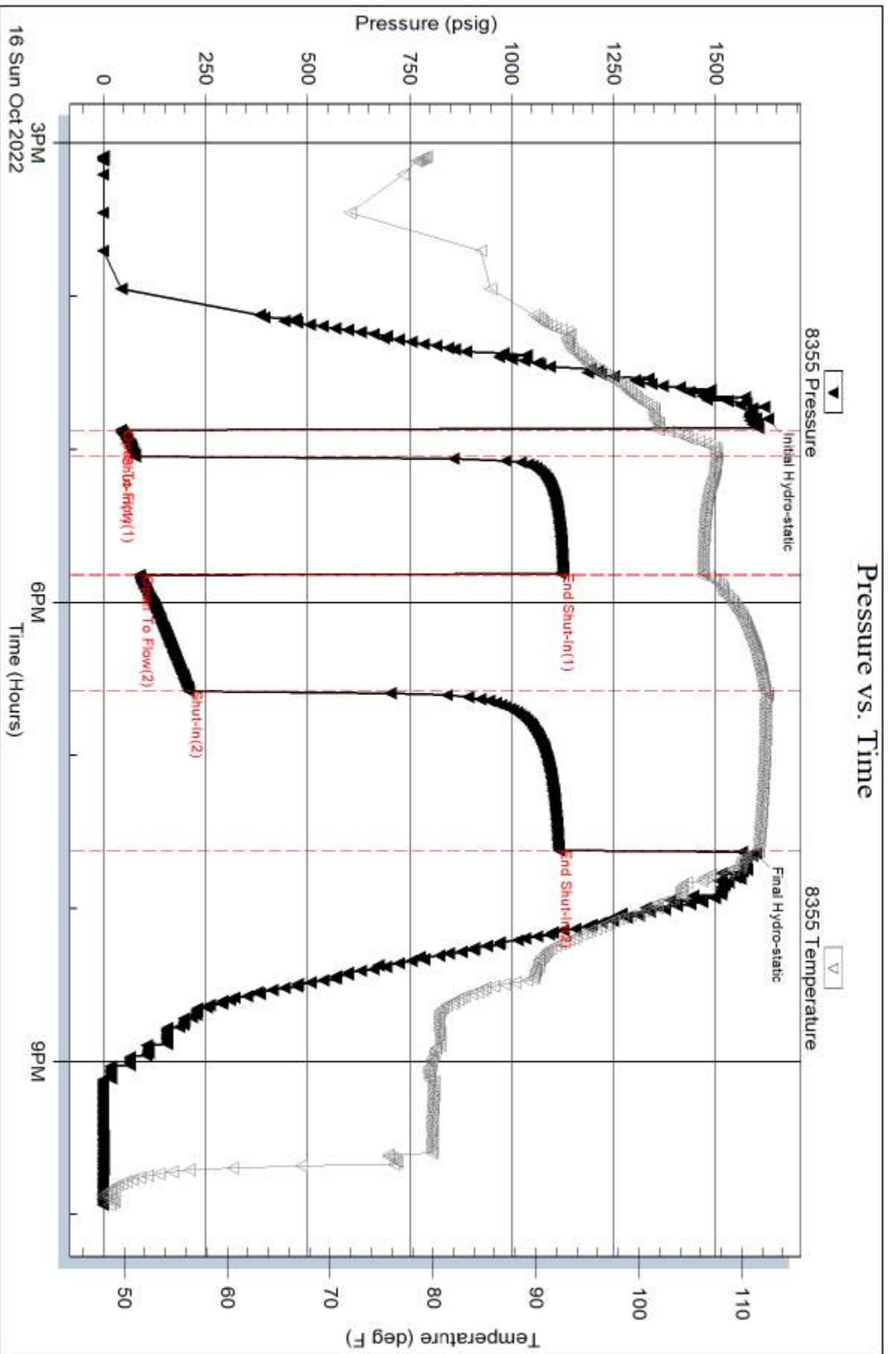
Num Gas Bombs: 0

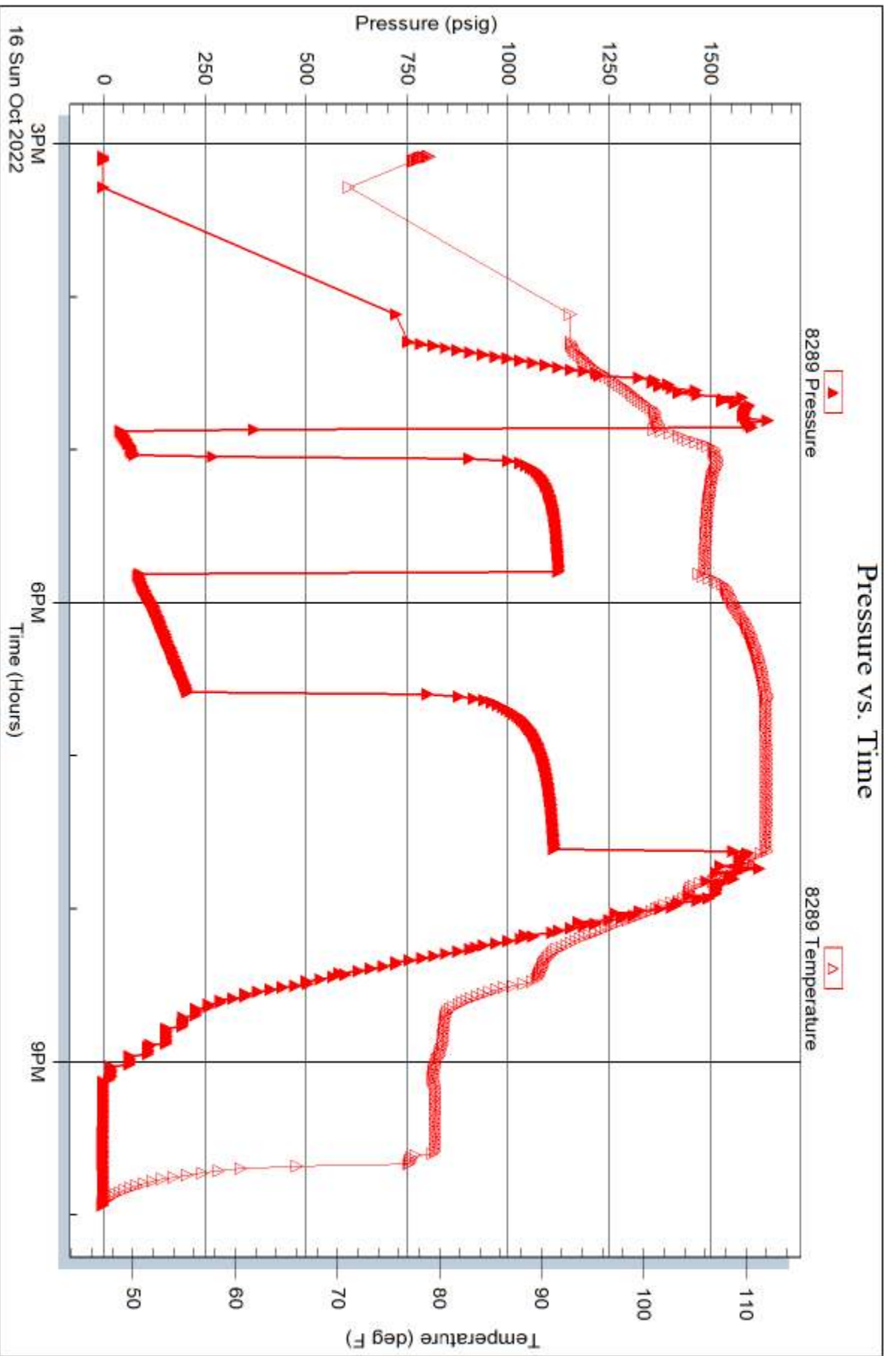
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





# COPELAND

## Acid & Cement

BURRTON, KS    ♦    GREAT BEND, KS  
 (620) 463-5161    (620) 793-3366  
 FAX (620) 463-2104    FAX (620) 793-3536

POST OFFICE BOX 438  
 HAYSVILLE, KS 67060  
 (316) 524-1225  
 (316) 524-1027 FAX

**Invoice**

RECEIVED OCT 19 2022

INVOICE NUMBER:  
**C60695-IN**

**BILL TO:**  
 YOUNGER ENERGY CO.  
 9415 E HARRY ST  
 BLDG 400 STE 403  
 WICHITA, KS 67207-5083

LEASE: DISQUE L 21-2

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
10/17/2022	60695		10/12/2022	DISQUE L 21-2	NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
		<b>NEW WELL</b>				
50.00	MI	MILEAGE CEMENT PUMP TRUCK		0.00	6.00	300.00
1.00	EA	PUMP CHARGE SURFACE		0.00	1,150.00	1,150.00
150.00	SK	COMMON CEMENT		0.00	16.75	2,512.50
150.00	SK	60/40 POZ MIX 2% GEL		0.00	13.25	1,987.50
17.00	SK	CALCIUM CHLORIDE		0.00	42.00	714.00
317.00	EA	BULK CHARGE		0.00	1.25	396.25
372.48	MI	BULK TRUCK - TON MILES		0.00	1.10	409.73
		<i>+131 Cement surface 15yr</i>				
<b>REMIT TO:</b> P.O. BOX 438 HAYSVILLE, KS 67060		<b>COP</b>		Net Invoice:		7,469.98
		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		BATCO Sales Tax:		391.05
<b>RECEIVED BY</b>		<b>NET 30 DAYS</b>		<b>Invoice Total:</b>		<b>7,861.03</b>

There will be a charge of 1.5% "per month" (18% annual rate) on all accounts over 30 days pas

Copeland Acid & Cement is a subsidiary of Gressel Oil Field Service

Gressel Oil Field Service reserves a security interest in the goods sold until the same are paid for in full and reserve all the rights of a secured party under the Uniform Commercial Code.

*DISQUE L 21-2  
 10/19/22  
 JRB*









**HURRICANE SERVICES INC**

Remit To: Hurricane Services, Inc.  
250 N. Water, Suite 200  
Wichita, KS 67202  
316-303-9515

RECEIVED OCT 28 2022

Customer:  
YOUNGER ENERGY COMPANY  
9415 E HARRY ST  
SUITE 403, BUILDING 400  
WICHITA, KS 67207-5083

Invoice Date: 10/17/2022  
Invoice #: 0364138  
Lease Name: Disque L '21'  
Well #: 2 (New)  
County: Barton, Ks  
Job Number: WP3519  
District: Pratt

Date/Description	HRS/QTY	Rate	Total
Longstring	0.000	0.000	0.00
H-Long	125.000	35.000	4,375.00
H-Plug	50.000	14.000	700.00
Cello Flake	32.000	1.750	56.00
5 1/2" Floatshoe-Flapper AFU	1.000	375.000	375.00
5 1/2" LD Plug & Baffle	1.000	350.000	350.00
5 1/2" Port Collar	1.000	3,500.000	3,500.00
Cement baskets 5 1/2"	2.000	300.000	600.00
5 1/2" Turbolizers	9.000	125.000	1,125.00
Mud flush	1,000.000	1.000	1,000.00
Light Eq Mileage	70.000	2.000	140.00
Heavy Eq Mileage	140.000	4.000	560.00
Ton Mileage	560.000	1.500	840.00
Cement Blending & Mixing	175.000	1.400	245.00
Depth Charge 3001'-4000'	1.000	2,250.000	2,250.00
Cement Data Acquisition	1.000	250.000	250.00
Cement Plug Container	1.000	250.000	250.00
Casing Swivel	1.000	300.000	300.00
Service Supervisor	1.000	275.000	275.00

231  
Cement production CSS/#2

**Total** 17,191.00

**TERMS:** Net 30 days. Interest may be charged on past due invoice at rate of 1 1/2% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

**SALES TAX:** Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

**WE APPRECIATE YOUR BUSINESS!**

Disque #2  
09-17-2022  
3/18

DA







**CEMENT TREATMENT REPORT**

Customer: <b>YOUNGER ENERGY COMPANY</b>	Well: <b>DISQUE L 21</b>	Ticket: <b>WP3519</b>
City, State: <b>CLAFLIN KS</b>	County: <b>BARTON KS</b>	Date: <b>10/17/2022</b>
Field Rep: <b>KYLE ROBY</b>	S-T-R: <b>23-17S-11W</b>	Service: <b>LONGSTRING</b>

Downhole Information	
Hole Size:	<b>7 7/8 In</b>
Hole Depth:	<b>3368 ft</b>
Casing Size:	<b>5 1/2 In</b>
Casing Depth:	<b>3369 ft</b>
Tubing / Liner:	<b>In</b>
Depth:	<b>ft</b>
Tool / Packer:	
Tool Depth:	<b>ft</b>
Displacement:	<b>77.2 bbbls</b>

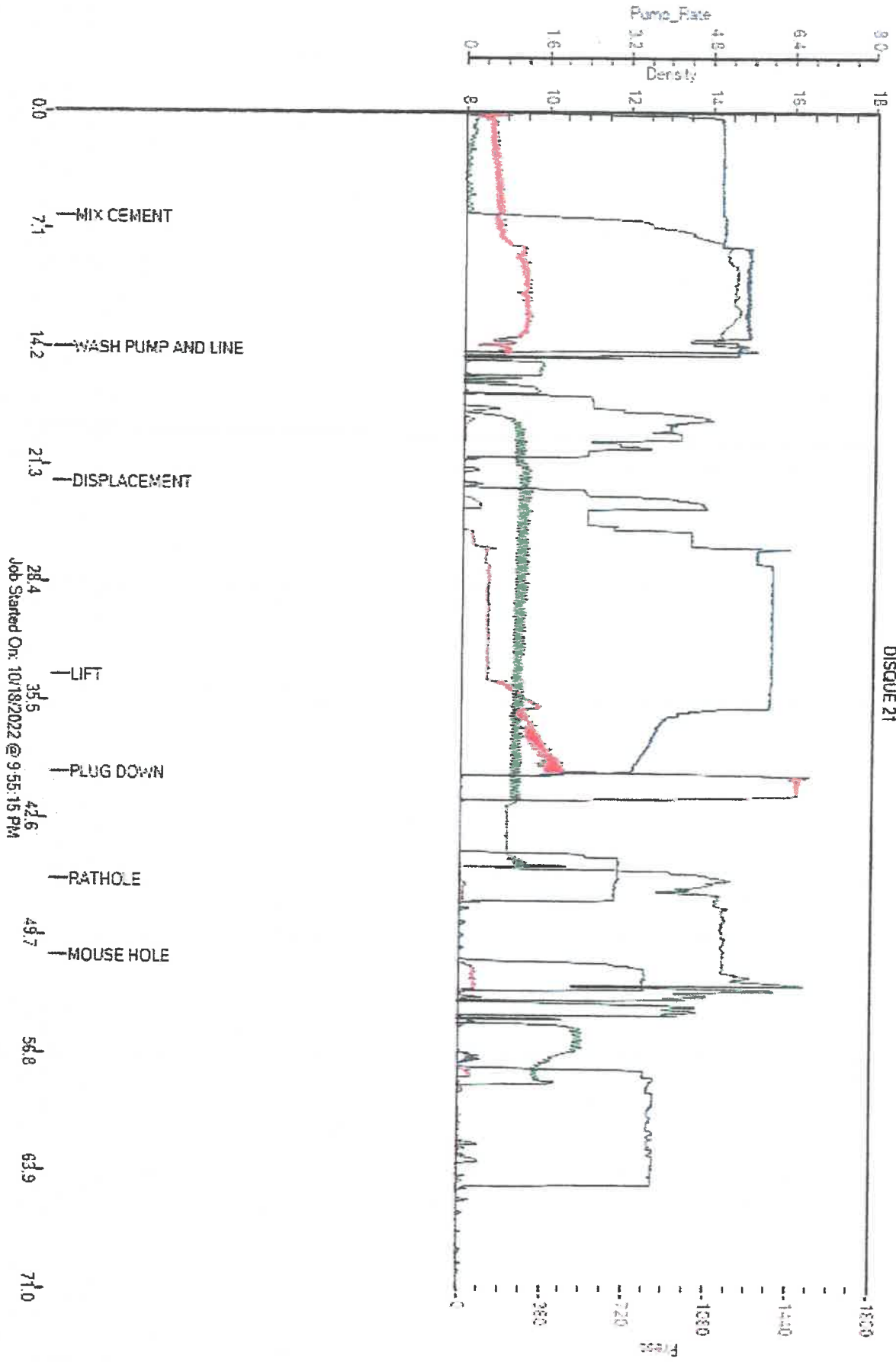
Calculated Slurry - Lead	
Blend:	<b>H-LONG</b>
Weight:	<b>15.0 ppg</b>
Water / Sx:	<b>6.0 gal / sx</b>
Yield:	<b>1.43 ft<sup>3</sup> / sx</b>
Annular Bbls / Ft.:	<b>bbls / ft.</b>
Depth:	<b>ft</b>
Annular Volume:	<b>0.0 bbbls</b>
Excess:	
Total Slurry:	<b>32.0 bbbls</b>
Total Sacks:	<b>125 sx</b>

Calculated Slurry - Tail	
Blend:	<b>H-PLUG</b>
Weight:	<b>13.78 ppg</b>
Water / Sx:	<b>6.9 gal / sx</b>
Yield:	<b>1.43 ft<sup>3</sup> / sx</b>
Annular Bbls / Ft.:	<b>bbls / ft.</b>
Depth:	<b>ft</b>
Annular Volume:	<b>0 bbbls</b>
Excess:	
Total Slurry:	<b>12.0 bbbls</b>
Total Sacks:	<b>50 sx</b>

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
4:30 PM			-	-	ON LOCATION
8:10 PM				-	RUN 5 1/2 17.5# CASING SHOE JOINT 42.14' TURBOS 1,2,3,4,5,6,7,8, 47 BASKETS 7, 47 PORT CLLAR JOINT 47 1387'
7:26 PM				-	CASING ON BOTTOM
7:50 PM				-	HOOK TO CASING, BREAK CIRCULATION WITH RIG (SWITCH OUT CASING SWIVEL)
11:00 PM	5.0	120.0	24.0	24.0	PUMP 24 EBL MUD FLUSH
11:06 PM	6.0	120.0	6.0	29.0	PUMP 6 BBL WATER
11:07 PM	5.0	100.0	32.0	61.0	MIX 125 SKS H-LONG
11:17 PM	4.0	25.0	4.0	65.0	WASH PUMP AND LINES, DROP PLUG
11:23 PM	6.0	100.0		65.0	START DISPLACEMENT, START ROTATING
11:35 PM	6.0	220.0	68.0	123.0	LIFT PRESSURE
11:37 PM	4.0	280.0	67.0	190.0	SLOW RATE, STOP ROTATING
11:41 PM		1,500.0	77.2	267.2	PLUG DOWN, RELEASED AND HELD
11:45 PM	2.0	25.0	7.0	274.2	MIX 30 SKS H-PLUG FOR RAT HOLE
11:50 PM	2.0	25.0	5.0	279.2	MIX 20 SKS H-PLUG FOR MOUSE HOLE
					CIRCULATION THROUGH JOB
				-	
				-	
				-	
				-	
				-	
				-	
				-	JOB COMPLETE, THANK YOU!
				-	MIKE MATTAL
				-	AUSTIN & JOSE
				-	
				-	
				-	

	CREW		UNIT	SUMMARY		
				Average Rate	Average Pressure	Total Fluid
Cementor:	<b>MATTAL</b>		<b>912</b>	<b>4.3 bpm</b>	<b>252 psi</b>	<b>279 bbbls</b>
Pump Operator:	<b>CLIFTON</b>		<b>170/521</b>			
Bulk #1:	<b>CP030</b>		<b>526/256</b>			
Bulk #2:						

YOUNGERS  
DISQUE 21



Job Started On: 10/18/2022 @ 9:55:15 PM

# COPELAND

## Acid & Cement

BURRTON, KS    ♦    GREAT BEND, KS  
 (620) 463-5161    (620) 793-3366  
 FAX (620) 463-2104    FAX (620) 793-3536

POST OFFICE BOX 438  
 HAYSVILLE, KS 67060  
 (316) 524-1225  
 (316) 524-1027 FAX

**Invoice**

RECEIVED NOV 2 2022

INVOICE NUMBER:  
**C50607-IN**

**BILL TO:**  
**YOUNGER ENERGY CO.**  
**9415 E HARRY ST**  
**BLDG 400 STE 403**  
**WICHITA, KS 67207-5083**

**LEASE: DISQUE L 21 #2**

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
10/31/2022	50607		10/26/2022	DISQUE L 21 #2	NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
30.00	MI	MILEAGE PICKUP		0.00	4.00	120.00
30.00	MI	MILEAGE CEMENT PUMP TRUCK		0.00	6.00	180.00
1.00	EA	PUMP CHARGE PORT COLLAR		0.00	1,000.00	1,000.00
400.00	SK	60/40 POZ MIX 2% GEL		0.00	13.50	5,400.00
15.00	SK	2% ADDITIONAL GEL		0.00	25.25	378.75
415.00	EA	BULK CHARGE		0.00	1.25	518.75
275.25	MI	BULK TRUCK - TON MILES		0.00	1.10	302.78
		<i>231 Cement port collar /#2</i>				
<b>REMIT TO:</b> P.O. BOX 438 HAYSVILLE, KS 67060		COP		Net Invoice:		7,900.28
		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		BATCO Sales Tax:		592.52
<b>RECEIVED BY</b>		<b>NET 30 DAYS</b>		<b>Invoice Total:</b>		<b>8,492.80</b>

*Disque #2  
copy to Ken  
J.B.*

There will be a charge of 1.5% "per month" (18% annual rate) on all accounts over 30 days pas

Copeland Acid & Cement is a subsidiary of Gressel Oil Field Service

Gressel Oil Field Service reserves a security interest in the goods sold until the same are paid for in full and reserve all the rights of a secured party under the Uniform Commercial Code.







## TREATMENT REPORT

Acid Stage No. \_\_\_\_\_

Date 10/26/2022 District GB F.O. No. 50607

Company Younger Energy

Well Name & No. Disque L "21" #2

Location \_\_\_\_\_ Field \_\_\_\_\_

County Barton State KS

Type Treatment:	Amt.	Type Fluid	Sand Size	Pounds of Sand
Bkdown	_____ Bbl./Gal.	_____	_____	_____
	_____ Bbl./Gal.	_____	_____	_____
	_____ Bbl./Gal.	_____	_____	_____
	_____ Bbl./Gal.	_____	_____	_____
Flush	_____ Bbl./Gal.	_____	_____	_____

Casing: Size 5.5" Type & Wt. \_\_\_\_\_ Set at \_\_\_\_\_ ft.

Formation: \_\_\_\_\_ Perf. \_\_\_\_\_ to \_\_\_\_\_ ft.

Formation: \_\_\_\_\_ Perf. \_\_\_\_\_ to \_\_\_\_\_ ft.

Formation: \_\_\_\_\_ Perf. \_\_\_\_\_ to \_\_\_\_\_ ft.

Liner: Size \_\_\_\_\_ Type & Wt. \_\_\_\_\_ Top at \_\_\_\_\_ ft. Bottom at \_\_\_\_\_ ft.

Cemented:  Yes  No Perforated from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Tubing: Size & Wt. \_\_\_\_\_ Swung at \_\_\_\_\_ ft.

Perforated from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Open Hole Size \_\_\_\_\_ T.D. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

Treated from _____ ft. to _____ ft.	No. ft.	0
from _____ ft. to _____ ft.	No. ft.	0
from _____ ft. to _____ ft.	No. ft.	0

Actual Volume of Oil / Water to Load Hole: \_\_\_\_\_ Bbl./Gal.

Pump Trucks. No. Used: Std. 365 Sp. \_\_\_\_\_ Twin \_\_\_\_\_

Auxiliary Equipment \_\_\_\_\_ 360

Personnel Nathan Tim Joe

Auxiliary Tools \_\_\_\_\_

Plugging or Sealing Materials: Type \_\_\_\_\_ Gals. \_\_\_\_\_ lb.

Company Representative Keith R. Treater Nathan W.

TIME a.m./p.m.	PRESSURES		Total Fluid Pumped	REMARKS
	Tubing	Casing		
10:30	2"	5.5"		On Location.
				Port Collar-1387' Locate port collar and sub back.
				Pressure up well to 1000# Open port collar.
				Break circulation with water.
				Mix 400sks 65/35poz 6% gel Circulated cement to surface.
				Displace with 4bbls. Close port collar. Pressure up to 1000# Held.
				Run 5 joints and reverse out.
				Thank You!
				Nathan W.

**OPERATOR**

Company: Younger Energy Company  
 Address: 9415 E. Harry  
 Suite 403, Bldg 400  
 Wichita, KS 67207

Contact Geologist:  
 Contact Phone Nbr: 316-681-2542  
 Well Name: Disque L "21" #2  
 Location: Sec. 23 - T17S - R11W  
 API: 15-009-26369-0000  
 Pool:  
 State: Kansas

Field: Kraft - Prusa  
 Country: USA



Scale 1:240 Imperial

Well Name: Disque L "21" #2  
 Surface Location: Sec. 23 - T17S - R11W  
 Bottom Location:  
 API: 15-009-26369-0000  
 License Number: 30705  
 Spud Date: 10/11/2022 Time: 5:15 AM  
 Region: Barton County  
 Drilling Completed: 10/17/2022 Time: 4:00 AM  
 Surface Coordinates: 4620' FSL & 4290' FEL  
 Bottom Hole Coordinates:  
 Ground Elevation: 1857.00ft  
 K.B. Elevation: 1865.00ft  
 Logged Interval: 2700.00ft To: 3369.00ft  
 Total Depth: 3369.00ft  
 Formation: Arbuckle  
 Drilling Fluid Type: Chemical/Fresh Water Gel

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: -98.513208  
 Latitude: 38.563571  
 N/S Co-ord: 4620' FSL  
 E/W Co-ord: 4290' FEL

**LOGGED BY**

***Keith Reavis***  
*Consulting Geologist*

Company: Keith Reavis, Inc.  
 Address: 3420 22nd Street  
 Great Bend, KS 67530

Phone Nbr: 620-617-4091  
 Logged By: KLG #136

Name: Keith Reavis

**CONTRACTOR**

Contractor: Duke Drilling Company  
 Rig #: 2  
 Rig Type: mud rotary  
 Spud Date: 10/11/2022 Time: 5:15 AM  
 TD Date: 10/17/2022 Time: 4:00 AM  
 Rig Release: Time:

### ELEVATIONS

K.B. Elevation: 1865.00ft  
K.B. to Ground: 8.00ft

Ground Elevation: 1857.00ft

### NOTES

Based on results of DST #2 and electrical log analysis, 5 1/2' production casing was run and cemented at depth to further test the Arbuckle through perforations and stimulation.

A Bloodhound gas detection system operated by Bluestem Labs was employed during the drilling of this well. ROP and gas data, as well as gamma ray and caliper curves from the electrical log suite were imported into this log.

The samples were saved and will be available for review at the Kansas Geological Survey Well Sample Library located in Wichita KS.

Respectfully submitted  
Keith Reavis

## Younger Energy Company daily drilling report

DATE	7:00 AM DEPTH	REMARKS
10/14/2022	2545	Geologist Keith Reavis on location @1000 hrs, 2599 ft, tripping plugged bit during displacement, back on bottom, finish displacement, resume drilling King Hill, Queen Hill, Heebner
10/15/2022	3100	drilling ahead, Douglas, Lansing, show and kick in H zone warrants test, short trip, ctch, TOH w/bit, in w/tools, conduct DST #1, successful test,
10/16/2022	3275	TIH w/bit, resume drilling, lower KC and Arbuckle, show in Arbuckle warrants test, TOH w/bit and in w/tools, conduct and complete DST #2, successful test, TIH w/bit
10/17/2022	3369	back on bottom w/bit, rathole ahead and RTD 3369' @ 400am, ctch, trip out for logs, conduct logging operations, geologist off location 1100 am

## Younger Energy Company well comparison sheet

DRILLING WELL					COMPARISON WELL				COMPARISON WELL			
Disque - 21					Younger - Disque #1				Petroleum Ener. - Disque A-2			
4620' FSL & 4290' FEL					NW NW NW				E2 SW NW			
Sec 23-T17S-R11W					Sec 23-T17S-R11W				Sec 23-T17S-R11W			
1865 KB					1858 KB		Structural Relationship		1859 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
King Hill	2756	-891	2758	-893	2744	-886	-5	-7				
Queen Hill	2830	-965	2833	-968	2818	-960	-5	-8				
Heebner	2909	-1044	2914	-1049	2900	-1042	-2	-7	2914	-1055	11	6
Douglas	2940	-1075	2945	-1080	2932	-1074	-1	-6	2945	-1086	11	6
Brown Lime	3016	-1151	3020	-1155	3005	-1147	-4	-8	3021	-1162	11	7
Lansing	3031	-1166	3032	-1167	3019	-1161	-5	-6	3034	-1175	9	8
BRC	3290	-1425	3294	-1429	3282	-1424	-1	-5				
Arbuckle	3306	-1441	3299	-1434	3299	-1441	0	7	3296	-1437	-4	3
Total Depth	3369	-1504	3368	-1503	3313	-1455	-49	-48	3302	-1443	-61	-60

### Drill Stem Test #1

	DRILL STEM TEST REPORT		
	Younger Energy Co.	23-17S-11W/ Barton	
	9415 E Harry St. Suite 403 Wichita KS. 67207	Disque 21-2	
ATTN: Keith Reavis	Job Ticket: 65071	DST#: 1	
	Test Start: 2022.10.15 @ 16:04:00		

GENERAL INFORMATION:

Formation: **Lansing H**  
 Deviated: **No Whipstock** ft (KB)  
 Time Tool Opened: 18:08:30  
 Time Test Ended: 22:58:45

Test Type: Conventional Bottom Hole (Initial)  
 Tester: Richie Samora  
 Unit No: 66

Interval: **3156.00 ft (KB) To 3194.00 ft (KB) (TVD)**  
 Total Depth: 3194.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

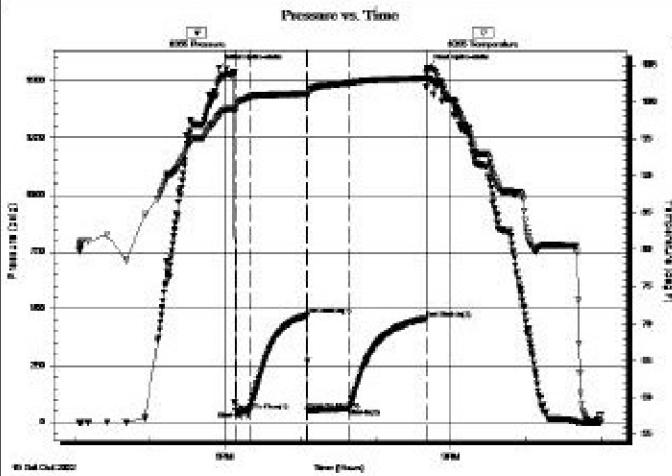
Reference Elevations: 1865.00 ft (KB)  
 1857.00 ft (CF)  
 KB to GRFCF: 8.00 ft

**Serial #: 8355**

Press@Run Depth: 62.12 psig @ ft (KB)  
 Start Date: 2022.10.15 End Date: 2022.10.15  
 Start Time: 16:04:05 End Time: 22:58:44

Capacity: 8000.00 psig  
 Last Calib.: 1899.12.30  
 Time On Btm: 2022.10.15 @ 17:55:15  
 Time Off Btm: 2022.10.15 @ 20:41:00

TEST COMMENT: 10-F: Strong blow BOB in 3:30, built to 29.85"  
 45-IS: No blow back  
 30-FF: Strong blow BOB in 30 seconds, built to 58"  
 60-FSI: No blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1556.17	98.22	Initial Hydro-static
14	52.65	99.15	Open To Flow(1)
25	49.83	100.67	Shut-in(1)
70	472.26	101.19	End Shut-In(1)
71	58.10	101.07	Open To Flow(2)
104	62.12	102.60	Shut-in(2)
165	457.00	103.27	End Shut-In(2)
166	1556.07	104.41	Final Hydro-static

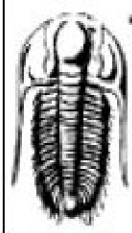
**Recovery**

Length (ft)	Description	Volume (bbl)
63.00	OSM 20% O 80%M	0.88
35.00	OSM 5%O 95%M	0.49
0.00	973 GIP	0.00

**Gas Rates**

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

**Drill Stem Test #2**



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Younger Energy Co.  
 9415 E Harry St. Suite 403  
 Wichita KS. 67207  
 ATTN: Keith Reavis

**23-17S-11W/ Barton**  
**Disque 21-2**  
 Job Ticket: 65072 **DST#: 2**  
 Test Start: 2022.10.16 @ 15:05:00

**GENERAL INFORMATION:**

Formation: **Arbuckle**  
 Deviated: **No Whipstock** ft (KB)  
 Time Tool Opened: 16:52:15  
 Time Test Ended: 21:56:15

Test Type: Conventional Bottom Hole (Reset)  
 Tester: Richie Samora  
 Unit No: 66

Interval: **3285.00 ft (KB) To 3319.00 ft (KB) (TVD)**  
 Total Depth: 3194.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1865.00 ft (KB)  
 1857.00 ft (CF)  
 KB to GRFCF: 8.00 ft

**Serial #: 8355**

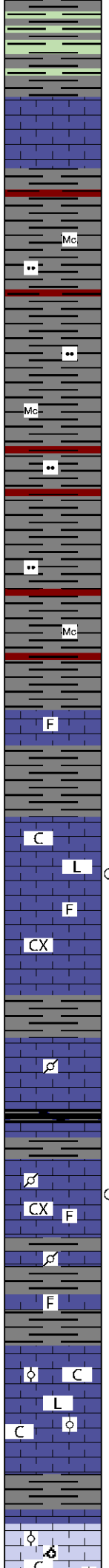
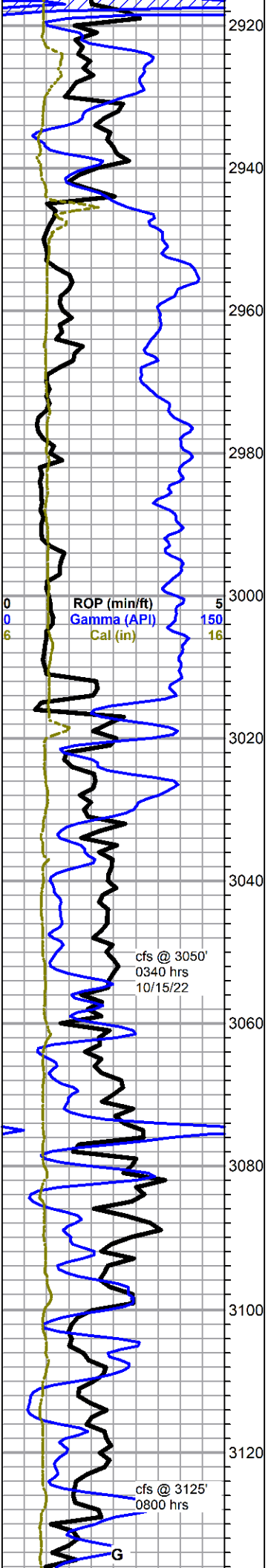
Press@Run Depth: 209.57 psig @ ft (KB)  
 Start Date: 2022.10.16 End Date: 2022.10.16

Capacity: 8000.00 psig  
 Last Calib.: 1899.12.30









shale, green and gray

**Toronto 2930 -1065**

limestone, white to cream, cryptocrystalline, slightly fossiliferous, dense, some chalk, no shows

**Douglas 2940 -1075**

shale, variable gray, silty in part, micaceous, some red shales, mostly soft

shales a.a.

**Brown Lime 3016 -1151**

limestone, gray and tan, crypto-microcrystalline, dense, fossiliferous

**Lansing 3031 -1166**

limestone, white to cream, cryptocrystalline, lithographic to slightly fossiliferous, few fossiliferous specimens with some solution vugs and light edge staining, strong sour odor, trace bleeding gassy free oil, good fluorescence, slow milky white cut

a.a. some staining with tarry clingy oil

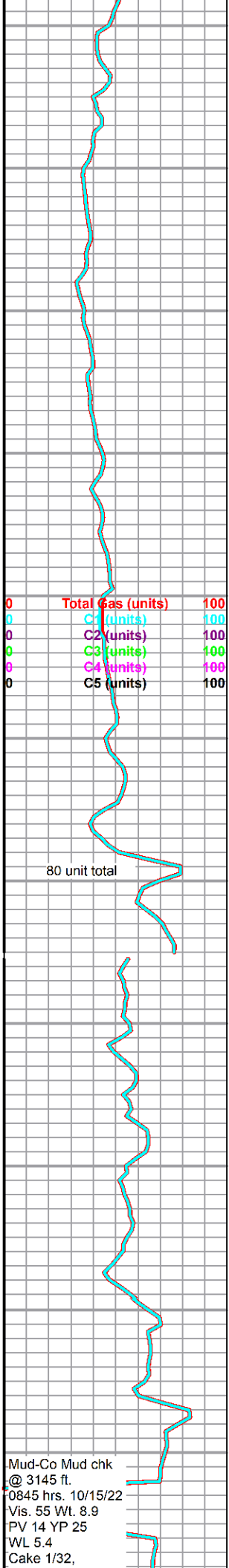
limestone, gray, mottled, pelletal, chalky in part, poor visible porosity no shows

a.a. with influx white to cream limestone, cryptocrystalline, slightly fossiliferous, poor overall porosity but some slightly stained solution vugs, still carrying slight sour odor, no show free oil

mixed limestones, gray to tan, grainy fossiliferous, pelletal, chalky lithographic, abundant shales, no shows

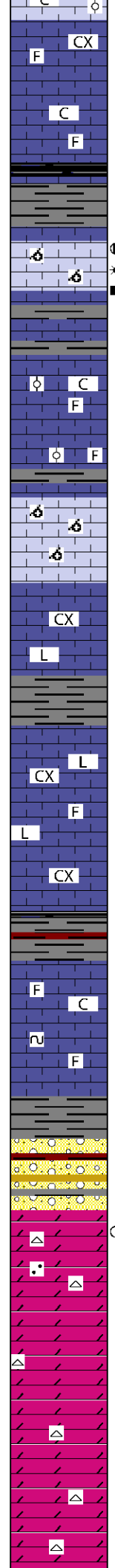
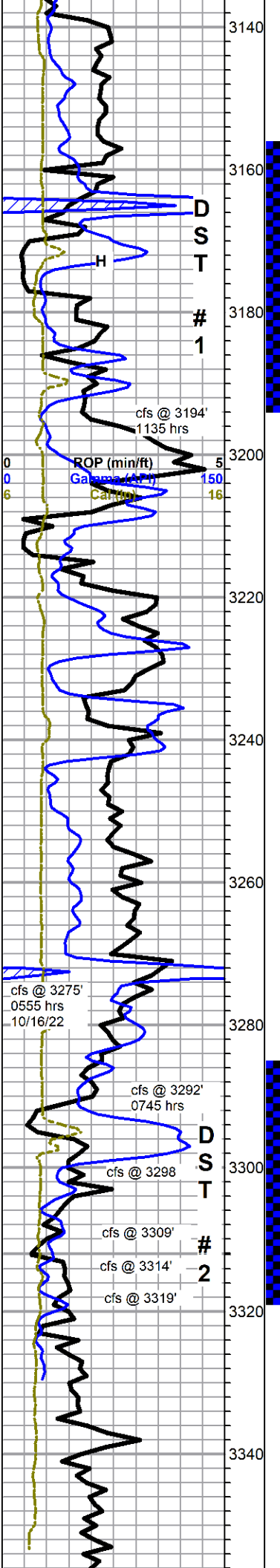
limestone, cream to light gray, oolitic, some weathered, some flattened, poor visible porosity, abundant chalk, abundant dark brown cherty limestone, mostly lithographic, no shows

limestone, cream to light gray, oomoldic to oolitic, some good porosity, barren, abundant chalk



0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100
0	C5 (units)	100

Mud-Co Mud chk  
@ 3145 ft.  
0845 hrs. 10/15/22  
Vis. 55 Wt. 8.9  
PV 14 YP 25  
WL 5.4  
Cake 1/32,



limestone, gray to brown, cryptocrystalline, fossiliferous to lithographic, dense, no shows  
grades to light gray chalky limestones, fossiliferous, no shows

● limestone, white to cream, oomoldic, good porosity with some secondary vugs, some light brown stain, good odor, some bleeding gassy oil, good white fluorescence, good white bloom with some nice streaming ribbons on cut  
\*  
■

NOTE: Gas lag was slow and kick is 4 ft low

limestone, white, chalky, oolitic to fossiliferous, no shows

deviation survey 3/4 deg

limestone, light gray to tan mottled, cryptocrystalline, oolitic to fossiliferous, dense, no shows

limestone, light gray, oomoldic, good porosity, barren

limestone, light gray, mostly cryptocrystalline lithographic, dense, some chalky, some fossiliferous, no shows

limestone a.a.

gray, red and black shales

limestone, cream to light gray, microcrystalline, some fine crystalline, fossiliferous, some glauconite specs, fairly soft to chalky, no shows

**Base KC 3290 -1425**

mostly mixed limestone with abundant shales with traces red chert, gray oolitic chert, pyritic limestones

**Arbuckle 3306 -1441 (Log 3299 -1434)**

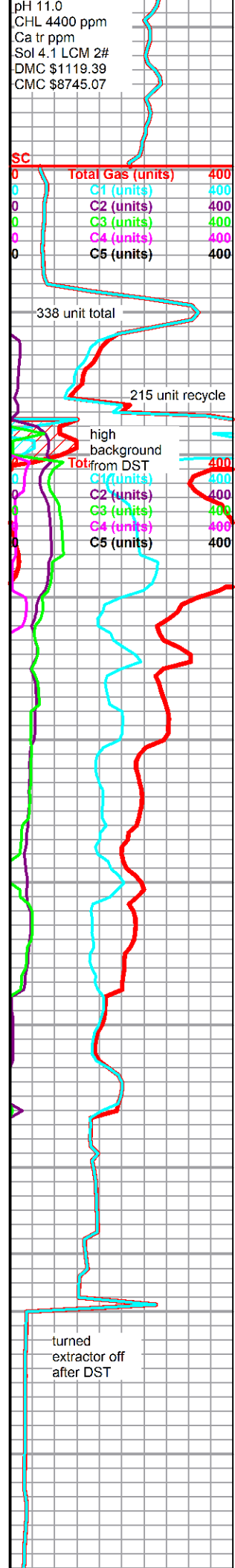
3309 - dolomite, white to light gray, micro to fine crystalline, poor crystal definition, barren, some scattered stained sucrosic with slight show oil, good odor and fluorescence: with frosted translucent cherts

3314 - dolomites a.a. with gray dense microcrystalline, some sandy dense dolomite, brown oolitic cherts - odor but no shows

3319 a.a. influx boney white chert, faint odor

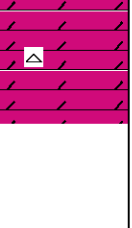
dolomite, white to light gray, some pale green, crypto to fine crystalline, some fair rhombic with porosity, scattered light stain, no free oil, faint odor, scattered white chert

dolomite a.a., mostly fine crystalline rhombic, abundant gray and white cherts, no shows, faint odor



pH 11.0  
CHL 4400 ppm  
Ca tr ppm  
Sol 4.1 LCM 2#  
DMC \$1119.39  
CMC \$8745.07





Rotary TD 3369 ft 0400 hrs 10/17/22  
ELI Wireline TD 3368 ft  
Complete Logging Operations 1015 hrs 10/17/22

