

Form	ACO1 - Well Completion
Operator	Thomas Garner, Inc.
Well Name	M & M UNIT 1
Doc ID	1790991

All Electric Logs Run

Dual Induction
Dual Comp
Micro
Sonic

Form	ACO1 - Well Completion
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Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	17.50	13.375	48	334	H-325 common	475	2%Gel 3%CC 1/4#CF
Intermediate	12.25	8.625	23	1018	H-325 Common	225	2%Gel 3%CC 1/4#CF
Production	7.875	5.50	15.5	4491	HHLong	200	N/A

OPERATOR

Company: Thomas Garner, Inc
Address: 20 NE 20th Ave.
St. John, KS 67576

Contact Geologist:
Contact Phone Nbr: 620-793-0766
Well Name: M M Unit
Location: Sec. 37 - T26S - R14W
API: 15-151-22590-0000
Pool:
State: Kansas

Field: Livin Mound
Country: USA



Scale 1:240 Imperial

Well Name: M M Unit
Surface Location: Sec. 37 - T26S - R14W
Bottom Location:
API: 15-151-22590-0000
License Number: 33406
Spud Date: 4/29/2024
Region: Pratt County
Drilling Completed: 5/7/2024
Surface Coordinates: 888' FNL & 2509' FWL
Bottom Hole Coordinates:
Ground Elevation: 1981.00ft
K.B. Elevation: 1992.00ft
Logged Interval: 3500.00ft
Total Depth: 4500.00ft
Formation: Simpson
Drilling Fluid Type: Chemical/Fresh Water Gel

Time: 8:30 AM

Time: 6:45 AM

To: 4500.00ft

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -98.839722
Latitude: 37.760087
N/S Co-ord: 888' FNL
E/W Co-ord: 2509' FWL

LOGGED BY

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

Phone Nbr: 620-617-4091
Logged By: Keith Reavis, P.G., Emeritus

Name:

CONTRACTOR

Contractor: Sterling Drilling Company
Rig #: 5
Rig Type: mud rotary
Spud Date: 4/29/2024
TD Date: 5/7/2024
Rig Release:

Time: 8:30 AM

Time: 6:45 AM

Time:

ELEVATIONS

K.B. Elevation: 1992.00ft
K.B. to Ground: 11.00ft

Ground Elevation: 1981.00ft

NOTES

Due to favorable drill stem tests and log evaluations, 5 1/2 inch production casing was ran and cemented at total depth. The well will be further tested through perforations and stimulation in the Kinderhook, Mississippian and Lansing.

A Tooke Daq gas detection system operated by Sterling Drilling was utilized during the drilling of this well. ROP and gas data from said unit, as well as gamma ray and caliper data from the electrical log suite was imported into this log.

Samples were saved and will be available for review at the KGS Well Sample Library.

Respectfully submitted,

Keith Reavis

daily drilling report

DATE	7:00 AM DEPTH	REMARKS
05/04/2024	3450	Geologist Keith Reavis on location @0940 hrs, 3555 ft, drilling ahead Topeka, Heebner, Douglas, Lansing, show in B zone warrants test, short trip, ctoh, TOH
05/04/2024	3900	TIH w/tools, conduct DST #1, successful test, back in hole w/bit, resume drlg, show and gas kick in H zone warrants test, TOH w/bit, TIH w/tools conducting DST #2
05/05/2024	4028	complete DST #2, had to reverse out, successful test, TOH w/tools, TIH w/bit resume drilling, show and gas kicks in I zone warrant test, TOH w/bit and TIH w/tools, conduct DST #3, successful test, back in hole with bit, resume drilling
05/06/2024	4316	drilling Marmaton section, conglomerate, Miss chert, gas kick in Miss warrants test, short trip, ctoh, TOH w/bit, in w/tools, conduct DST #4, Shut down for storms a few hours before pulling, successful test. TIH w/bit and resume drilling
05/07/2024	4500	drilling Miss, Kinderhook, Viola, Simpson, show in Simpson sand warrants test, conduct and complete DST #5, successful test, lay down tools, rig up ELL Wireline, conduct & complete logs, geologist off location 2330 hrs

Local Area Well Comparison

885' FNL & 2,550' FWL 27, 26-14

1992 = KB

M&M Unit 1-27*

Berg 'A' #1 "OWWO"

Petrowsky #1

Carr Farms #1-22

Formation Name	Key Well		Thickness/		Thickness/	
	Log Top	SSE	SSE	(+/-)*	SSE	(+/-)*
Stotler Ls Top -	3031	-1039	-1047	8	-1049	10
Howard Ls -	3240	-1248	-1258	10	-1264	16
Topeka Top -	3322	-1330	-1337	7	-1348	18
Heebner Shale -	3672	-1680	-1701	21	-1702	22
Brown Ls -	3831	-1839	-1851	12	-1858	19
Lansing -	3859	-1867	-1877	10	-1884	17
Lg 'B' Zone	3878	-1886 (L)	-1895	9	-1908	22
Chanute Shale (Drum Cap) Top	4000	-2008	-2019	11	-2028	20
Lg 'H' Zone	4008	-2016 (5') 152'	-2026 (5') 149'		-2036 (5') 152'	
Stark Shale -	4121	-2129	-2141	12	-2145	16
BKC -	4176	-2184	-2197	13	-2199	15
Mississippian	4297	-2305	-2328	23	-2352	47
Kinderhook Sh	4324	-2332	-2349	17	-2414	82
Kinderhook Sd	4370	-2378	-2363	None	-2378	-2378
Viola	4394	-2402	-2395	-7	-2420	18
Simp. Shale	4440	-2448	-2481	33	-2456	8
Simp. Sand	4450	-2458	-2489	31	-2472	14
RTD	4500	-2508	-2605	97	-2633	125

Drill Stem Test #1

 TRIOBITE TESTING, INC.	DRILL STEM TEST REPORT	
	Thomas Garner, Inc.	27/26/14
	20 NE 20th Ave. St. John, KS 67576	M&M Unit 1
	ATTN: Keith Reavis	Job Ticket: 70732 DST#: 1
Test Start: 2024.05.03 @ 23:49:00		

GENERAL INFORMATION:

Formation: **Lans. B**

Deviated: **No** Whipstock: 1994.00 ft (KB)

Time Tool Opened: 01:34:17

Time Test Ended: 07:21:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: **3870.00 ft (KB) To 3900.00 ft (KB) (TVD)**

Reference Elevations: 1994.00 ft (KB)

Total Depth: 3900.00 ft (KB) (TVD)

1983.00 ft (CF)

Hole Diameter: 7.80 inches -hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6752 **Inside**

Press@RunDepth: 71.89 psig @ 3872.00 ft (KB)

Capacity: psig

Start Date: 2024.05.03 End Date: 2024.05.04

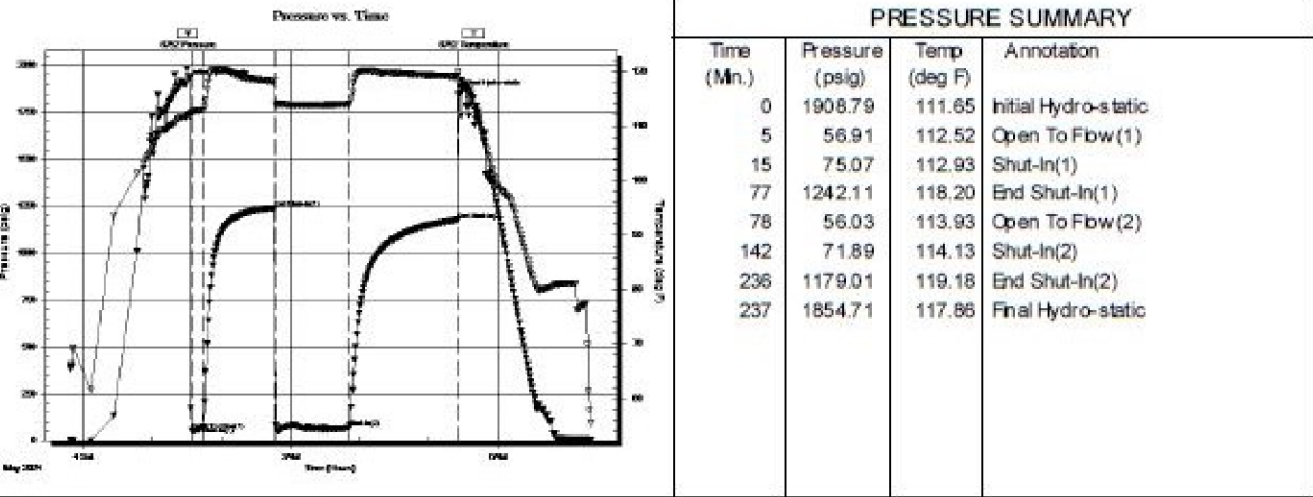
Last Calib.: 1899.12.30

Start Time: 23:49:01 End Time: 07:21:02

Time On Btm: 2024.05.04 @ 01:29:17

Time Off Btm: 2024.05.04 @ 05:26:02

TEST COMMENT: IF: 10 min., BOB 30 sec., strong building blow , 350 inches
IST: 60 min., no blow back
FF: 60 min., BOB ASAO, GTS 20 min., strong building blow
FSI: 90 min., no blow back



Recovery			Gas Rates			
Length (ft)	Description	Volume (bbl)	Choke (inches)	Pressure (psig)	Gas Rate (M dft)	
180.00	gasy OC w atery mud 20%G,20%O,20%M\0.89 %M		0.25	9.00	37.12	

Drill Stem Test #2

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Thomas Garner, Inc.

27/26/14

20 NE 20th Ave.

M&M Unit 1

St. John, KS 67576

Job Ticket: 70733

DST#: 2

ATTN: Kieth Reavis

Test Start: 2024.05.04 @ 18:35:00

GENERAL INFORMATION:

Formation: **Lansing H**

Deviated: **No** Whipstock: 1994.00 ft (KB)

Time Tool Opened: 20:24:17

Time Test Ended: 03:13:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: **3999.00 ft (KB) To 4017.00 ft (KB) (TVD)**

Reference Elevations: 1994.00 ft (KB)

Total Depth: 4017.00 ft (KB) (TVD)

1983.00 ft (CF)

Hole Diameter: 7.80 inches -hole Condition: Good

KB to GR/CF: 11.00 ft

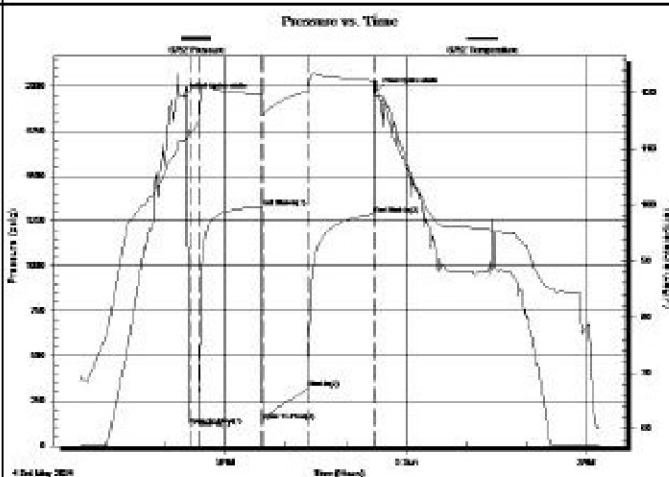
Serial #: 6752 **Inside**

Press@RunDepth: 320.67 psig @ 4001.00 ft (KB)

Capacity: psig

Start Date: 2024.05.04 End Date: 2024.05.05 Last Calib.: 1899.12.30
Start Time: 18:35:00 End Time: 03:13:02 Time On Btm: 2024.05.04 @ 20:19:02
Time Off Btm: 2024.05.04 @ 23:31:32

TEST COMMENT: IF: 10 min., BOB ASAO, strong building blow, 33 lbs
IS: 60 min., blow back 10 sec., BOB 2 min., 80 inches
FF: 60 min., BOB GTS ASAO, strong building blow
FSI: 60 min., blow back 10 sec., BOB 1 min., 300+ inches



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1940.37	111.43	Initial Hydro-static
6	116.53	113.29	Open To Flow (1)
15	149.40	115.00	Shut-In(1)
77	1330.19	119.82	End Shut-In(1)
79	145.06	115.95	Open To Flow(2)
124	320.67	120.45	Shut-In(2)
190	1290.78	122.20	End Shut-In(2)
193	1975.63	119.28	Final Hydro-static

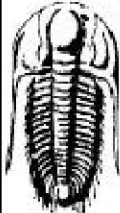
Recovery

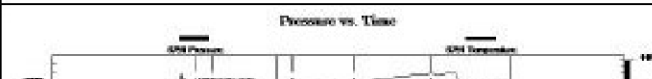
Length (ft)	Description	Volume (bbl)
2020.00	gassy oil 15% G, 85% O	26.42

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (M cfd)
First Gas Rate	0.25	18.30	54.99
Last Gas Rate			
Max. Gas Rate	0.25	18.30	54.99

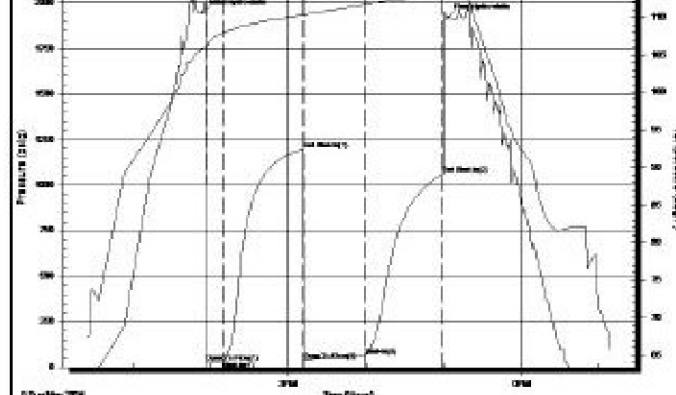
Drill Stem Test #3

	DRILL STEM TEST REPORT	
	Thomas Garner, Inc. 20 NE 20th Ave. St. John, KS 67576 ATTN: Keith Reavis	27/26/14 M&M Unit 1 Job Ticket: 70734 DST#: 3 Test Start: 2024.05.05 @ 12:26:00
GENERAL INFORMATION:		
Formation: Lansing I		
Deviated: No Whipstock: 1994.00 ft (KB)		
Time Tool Opened: 13:57:02		
Time Test Ended: 19:08:02		
Interval: 4038.00 ft (KB) To 4082.00 ft (KB) (TVD)		
Total Depth: 4082.00 ft (KB) (TVD)		
Hole Diameter: 7.80 inches - hole Condition: Good		
Reference Elevations: 1994.00 ft (KB) 1983.00 ft (CF) KB to GR/CF: 11.00 ft		
Serial #: 6751 Outside		
Press@RunDepth: 65.41 psig @ 4040.00 ft (KB)		
Capacity: psig		
Start Date: 2024.05.05 End Date: 2024.05.05		
Last Calib.: 1899.12.30		
Start Time: 12:26:00 End Time: 19:08:02		
Time On Btm: 2024.05.05 @ 13:54:32		
Time Off Btm: 2024.05.05 @ 17:03:32		
TEST COMMENT: IF: 10 min., fair building blow, 4.7 inches IS: 60 min., no blow back FF: 45 min., fair building blow, 6.8 inches FSI: 60 min., no blow back		



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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(Min.)	(psig)	(deg F)	
0	1945.57	105.80	Initial Hydro-static
3	28.08	105.92	Open To Flow (1)
15	34.08	107.94	Shut-In(1)
77	1197.39	110.26	End Shut-In(1)
78	40.35	110.06	Open To Flow (2)
125	65.41	111.72	Shut-In(2)
185	1059.22	113.03	End Shut-In(2)
189	1919.16	112.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gassy oily mud 5%G,1%O,94%M	0.30

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (M dft)
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Drill Stem Test #4

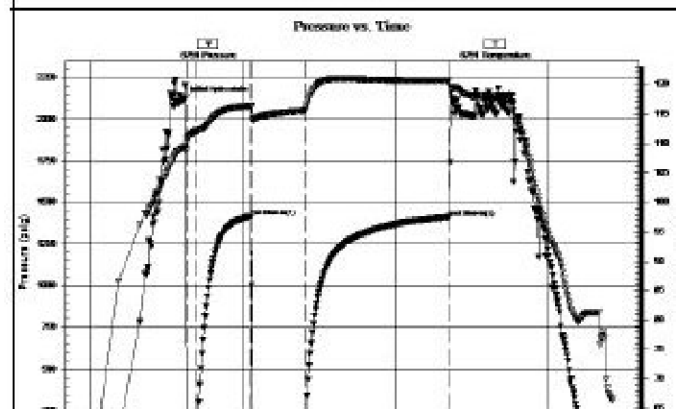
	DRILL STEM TEST REPORT	
	Thomas Garner, Inc.	27/26/14
	20 NE 20th Ave. St. John, KS 67576	M&M Unit 1
	ATTN: Kiehl Reavis	Job Ticket: 70735 DST#: 4 Test Start: 2024.05.06 @ 09:01:00

GENERAL INFORMATION:

Formation: **Miss.**
 Deviated: No Whipstock 1994.00 ft (KB)
 Time Tool Opened: 10:53:47
 Time Test Ended: 19:16:47
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 69
 Interval: 4260.00 ft (KB) To 4316.00 ft (KB) (TVD)
 Total Depth: 4316.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches - hole Condition: Good
 Reference Elevations: 1994.00 ft (KB)
 1983.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6751 **Outside**
 Press@RunDepth: 38.41 psig @ 4262.00 ft (KB) Capacity: psig
 Start Date: 2024.05.06 End Date: 2024.05.06 Last Calib.: 1899.12.30
 Start Time: 09:01:01 End Time: 19:16:47 Time On Btm: 2024.05.06 @ 10:51:17
 Time Off Btm: 2024.05.06 @ 16:08:32

TEST COMMENT: IF: 10 min., BOB 1 min., strong building blow, 102 inches
 IS: 60 min., no blow back
 FF: 60 min., BOB ASAO, GTS 30 min., strong building blow
 FS: 180 min., no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2117.33	109.34	Initial Hydro-static
3	34.90	109.97	Open To Flow (1)
14	38.12	112.16	Shut-In(1)
78	1418.85	116.34	End Shut-In(1)
80	37.24	114.09	Open To Flow (2)
142	38.41	115.56	Shut-In(2)
312	1414.74	120.68	End Shut-In(2)
318	2089.06	119.55	Final Hydro-static

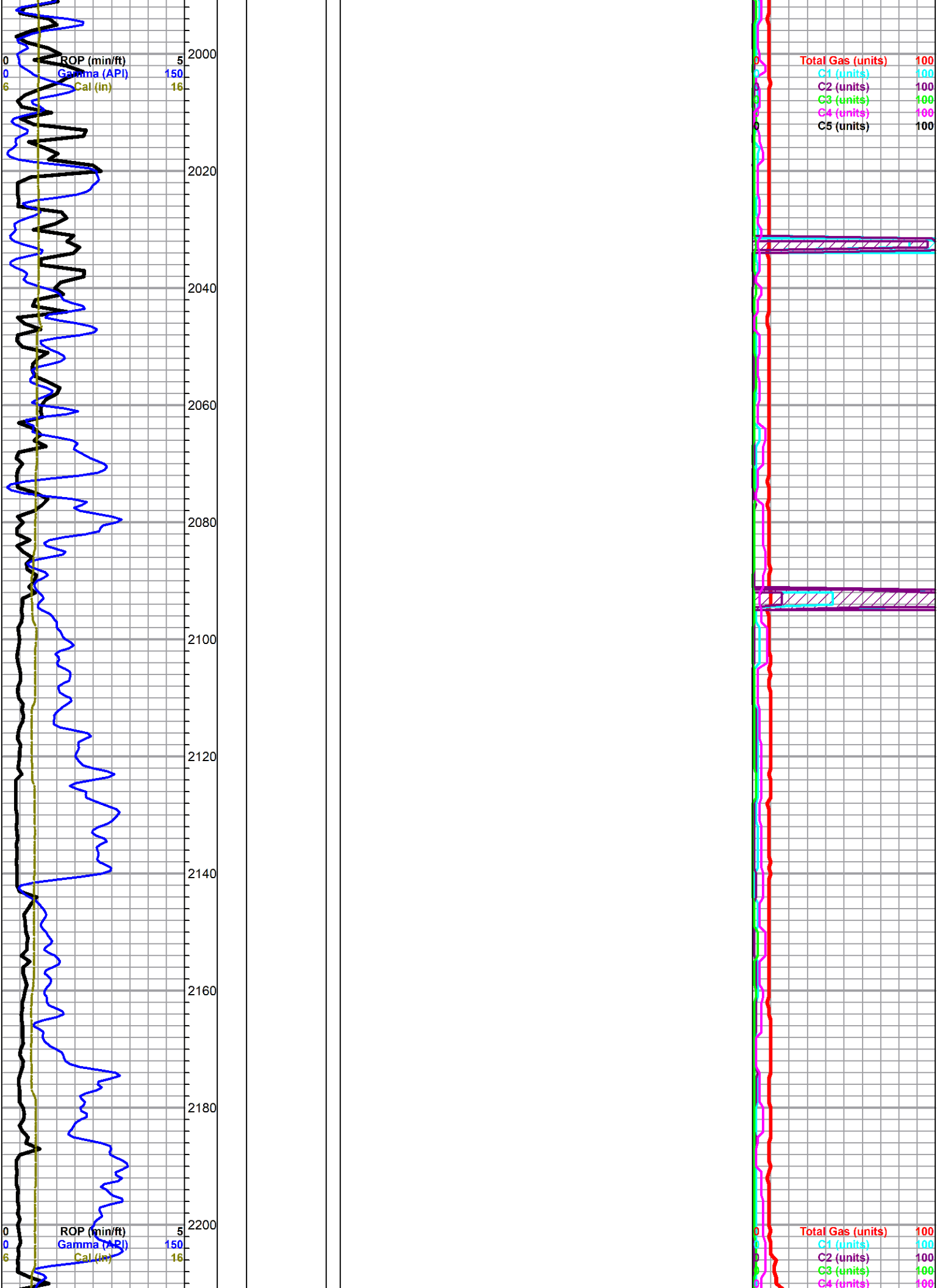
Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (M cfd)
First Gas Rate	0.25	13.00	43.47
Last Gas Rate			
Max. Gas Rate	0.25	13.00	43.47

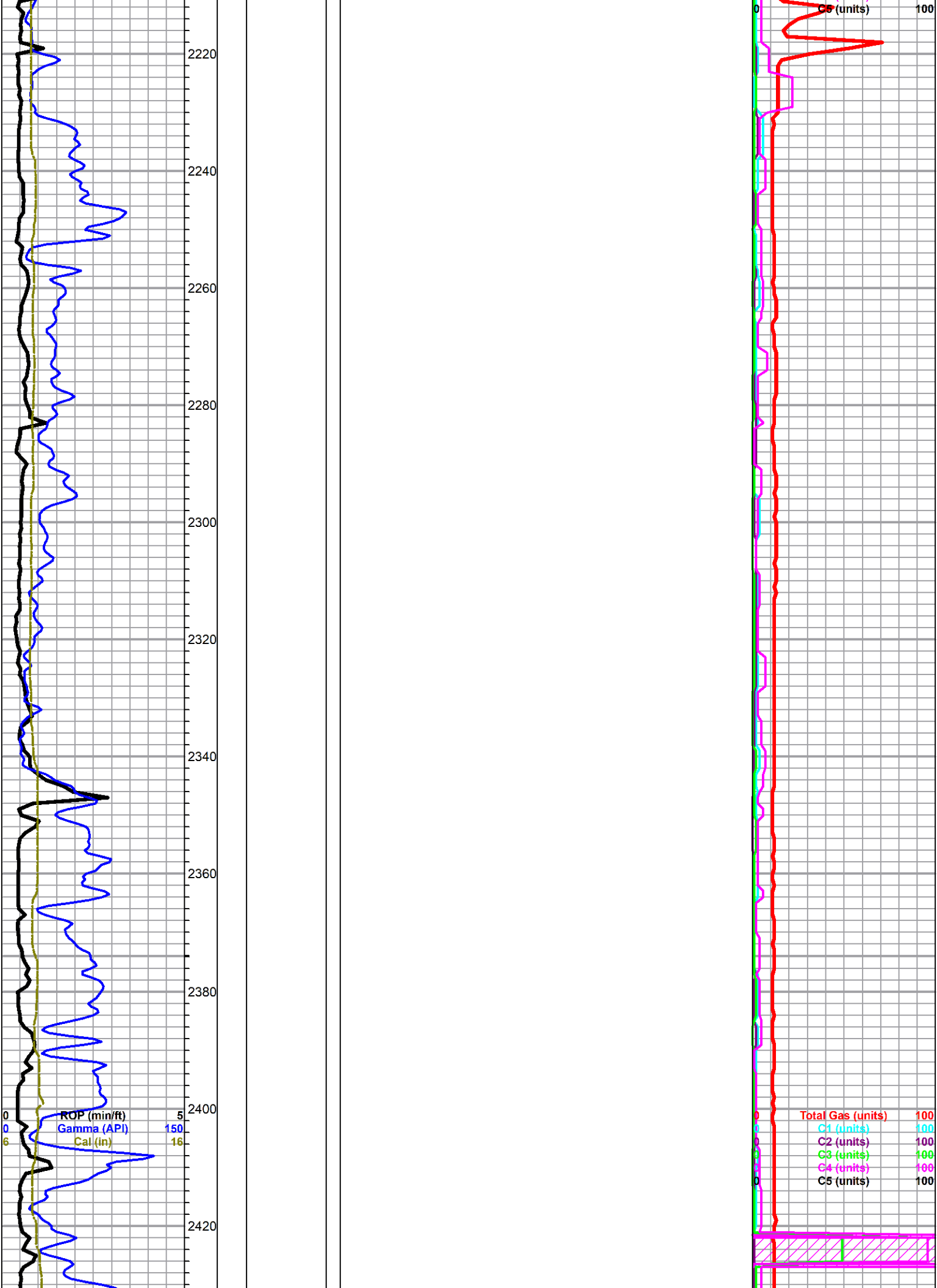
Gas Rates		
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

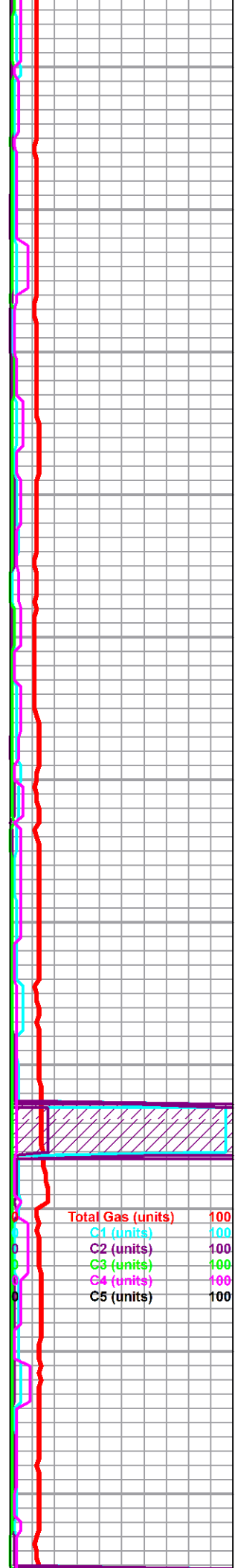
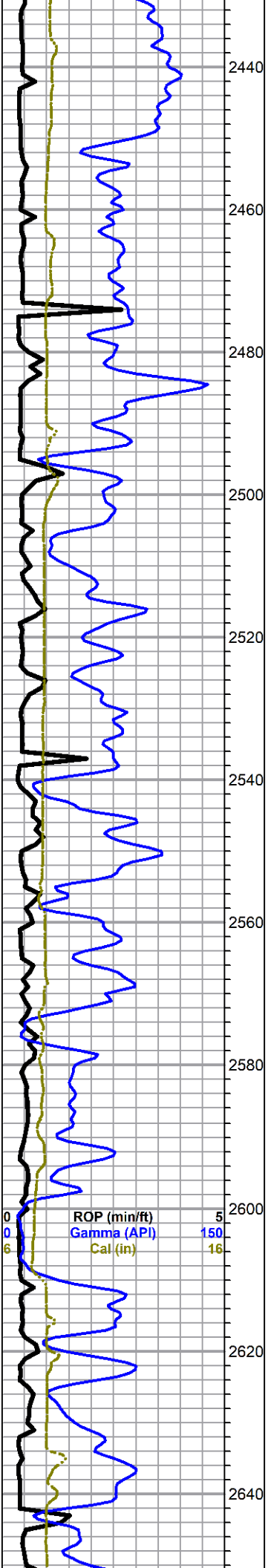
ACCESSORIES

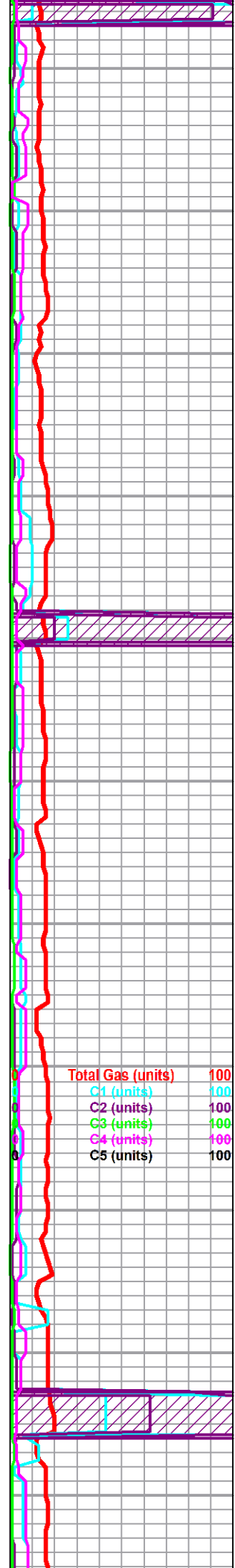
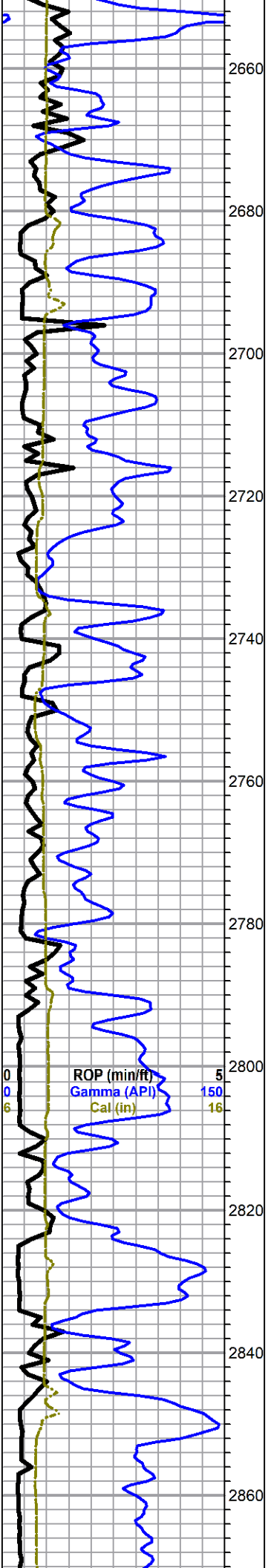
MINERAL	FOSSIL	STRINGER	TEXTURE
▲ Chert, dark	↪ Bioclastic or Fragmental	*** Sandstone	C Chalky
▣ Chert, tripolitic	☪ Coral		CX Cryptocrystalline
■ Heavy, dark minerals	F Fossils < 20%		L Lithogr
△ Chert White	⊕ Oolite		
■ Argillaceous/Shale	☉ Pellets		
	⊗ Oomoldic		

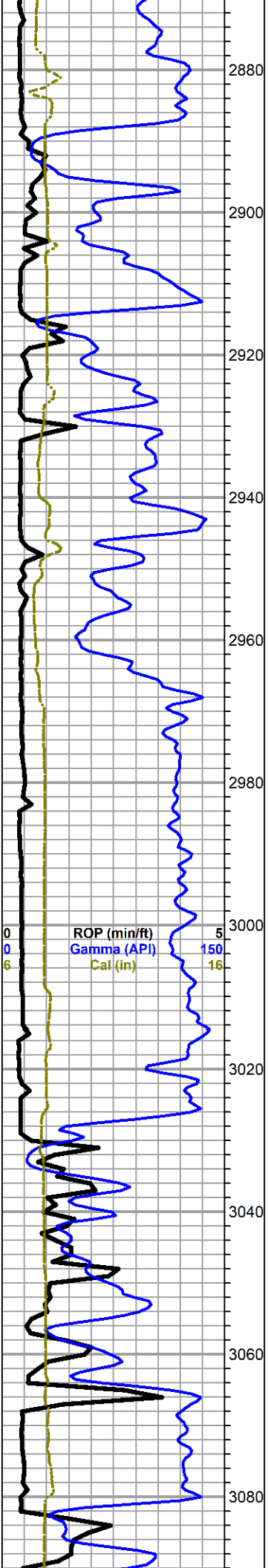
Curve Track #1			Depth Intervals			Geological Descriptions			Curve Track #2		
ROP (min/ft)	Gamma (API)	Cal (in)	Cored Interval	DST Interval	DST	Lithology	Oil Show		TG, C1 - C5		
1:240 Imperial ROP (min/ft) 5 Gamma (API) 150 Cal (in) 16									1:240 Imperial Total Gas (units) 100 C1 (units) 100 C2 (units) 100 C3 (units) 100 C4 (units) 100 C5 (units) 100		





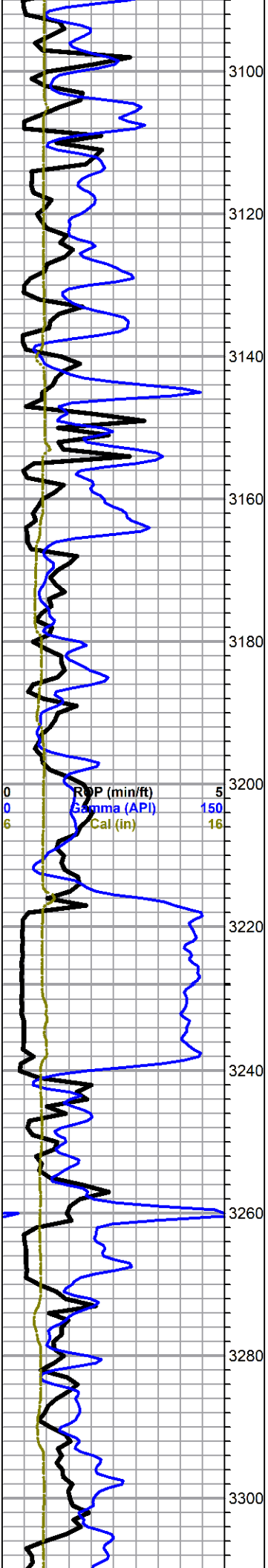




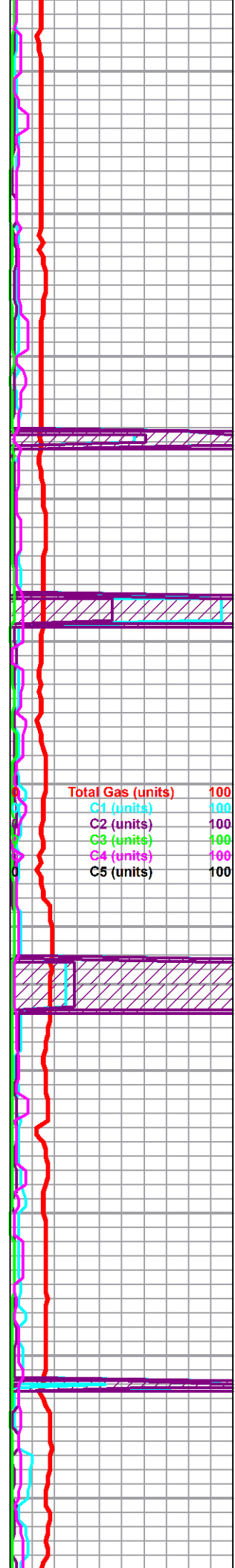


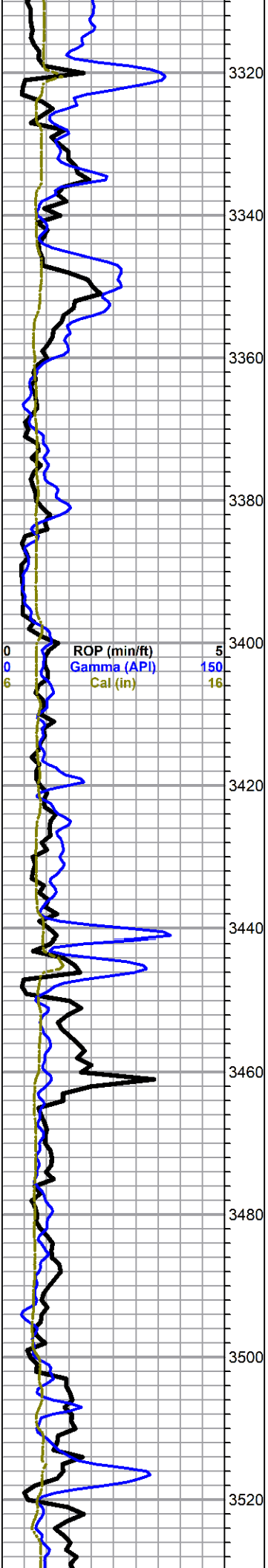
Stotler LS 3030





Howard 3241

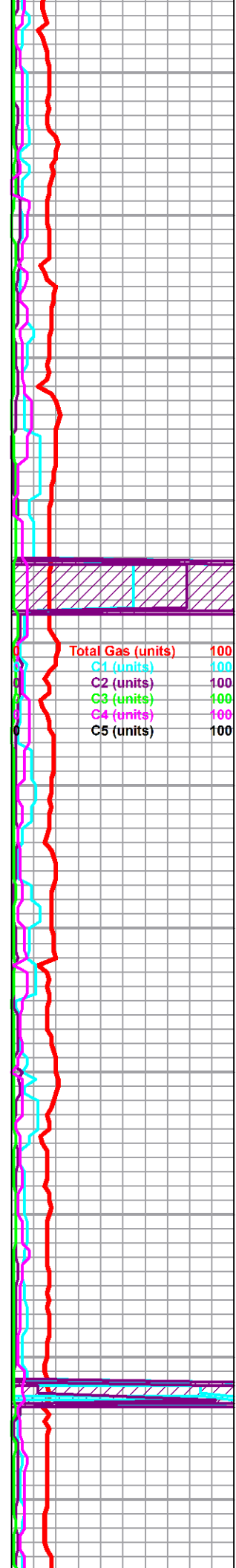
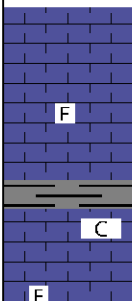


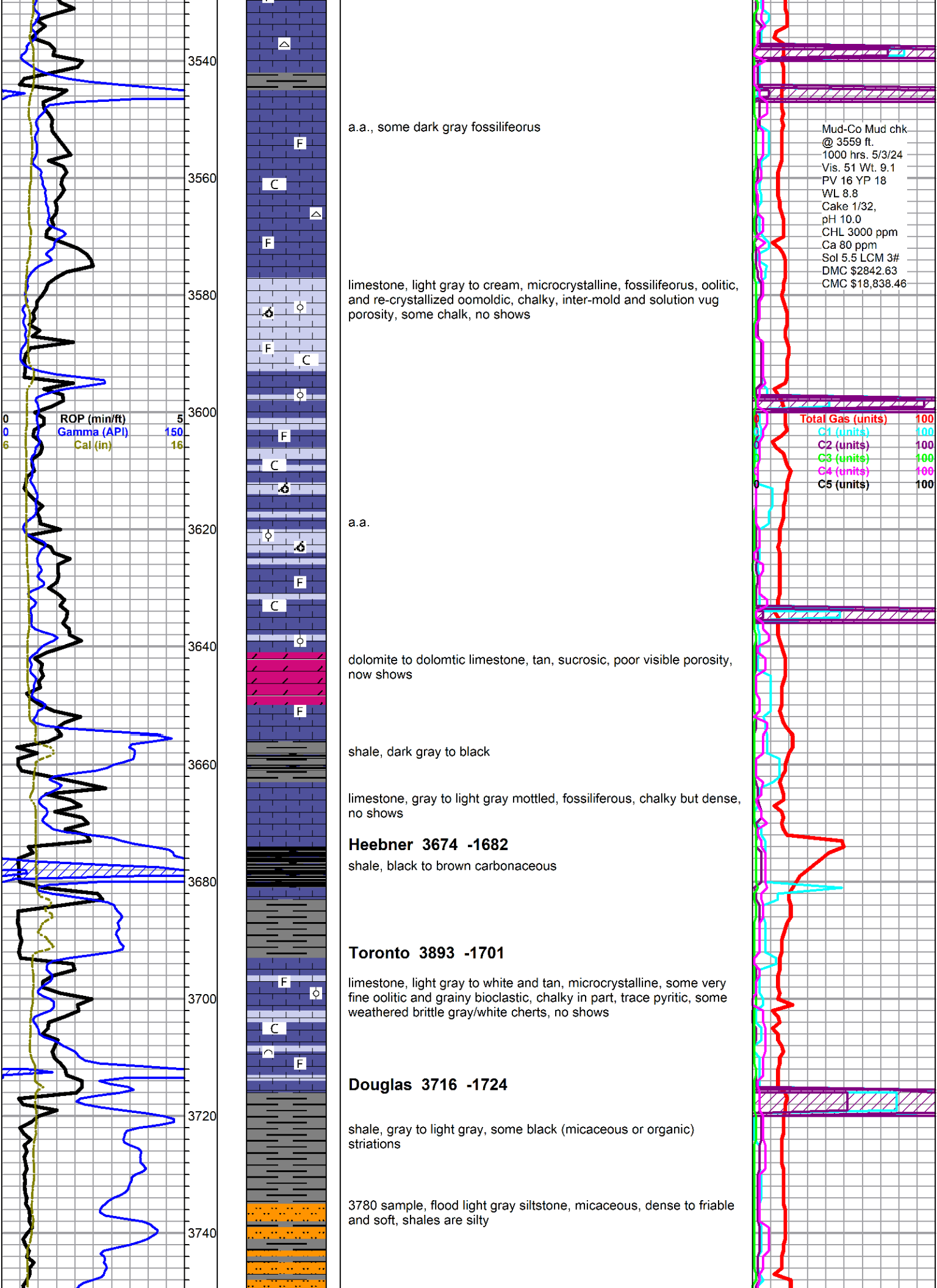


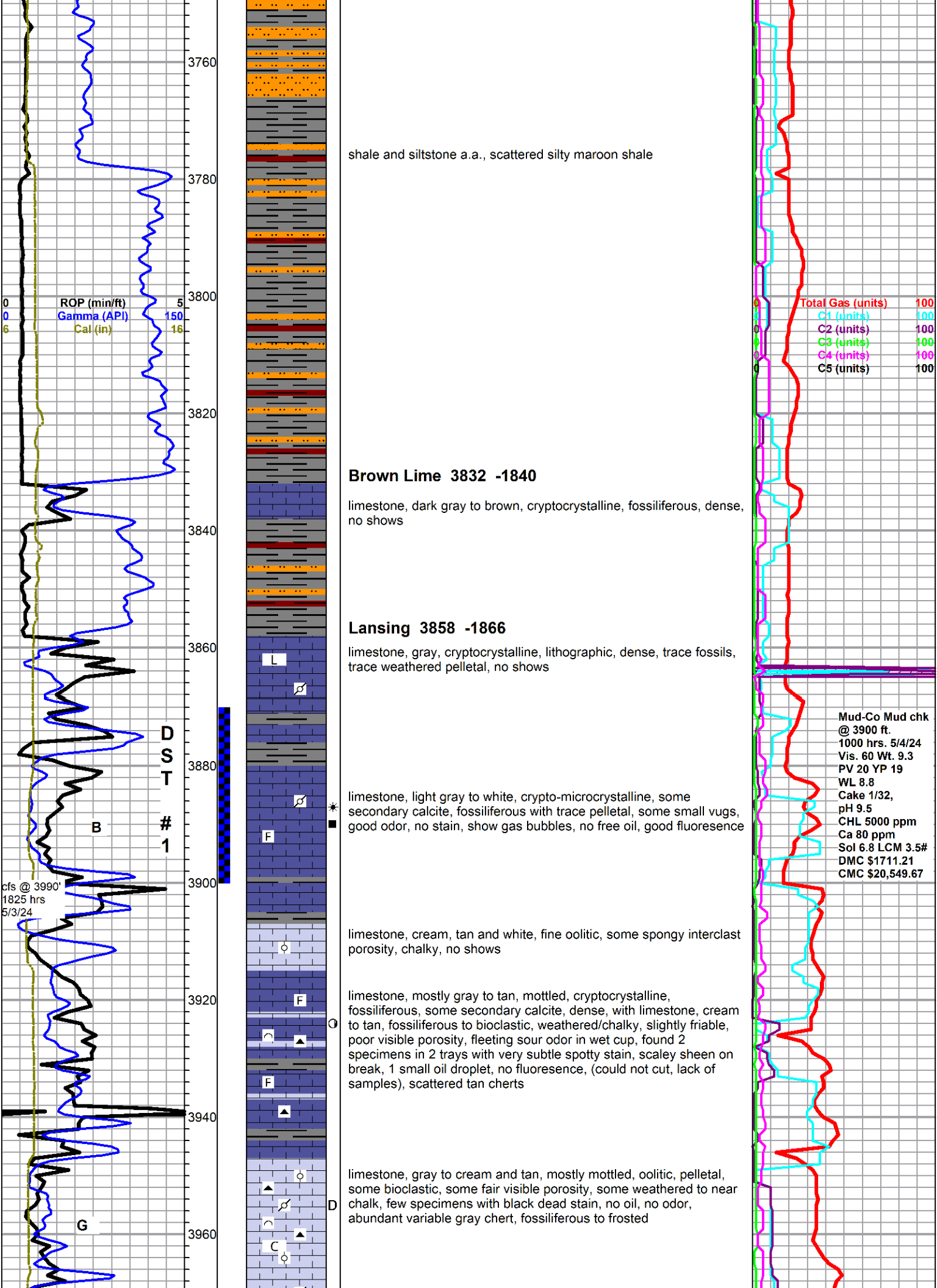
Topeka 3319

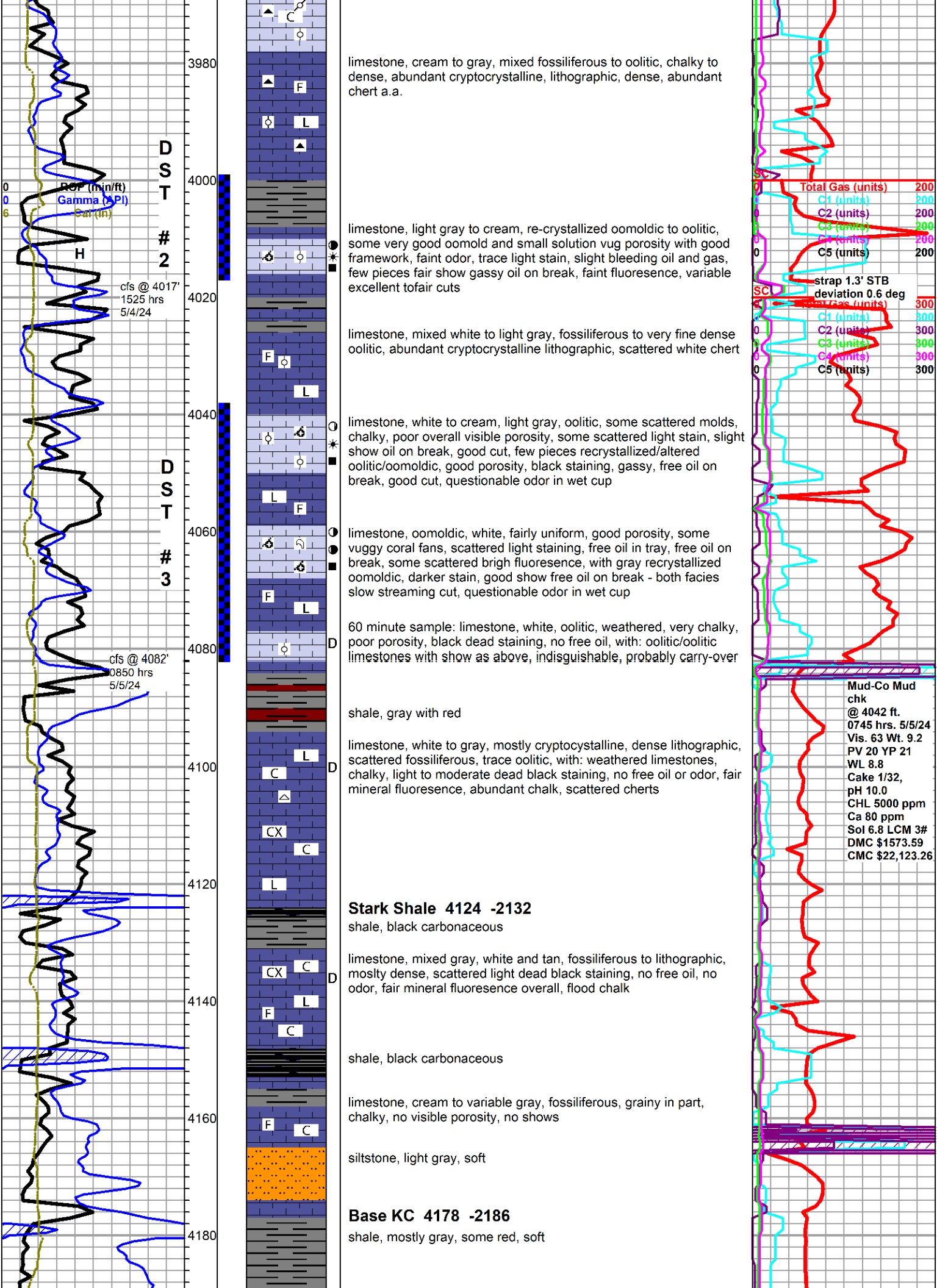
Begin 20 ft. wet and dry samples

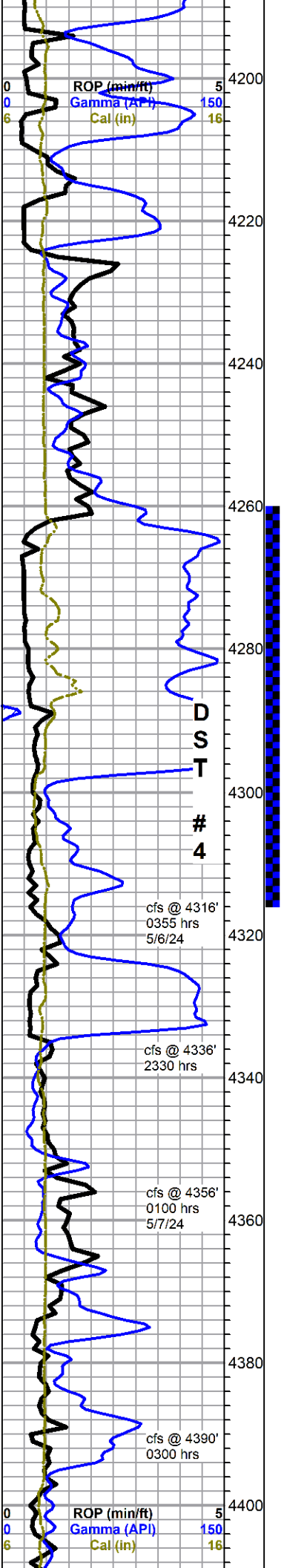
limestone, light gray to cream, microcrystalline, fossiliferous, grainy, chalky, poor visible porosity, some scattered light gray to white cherts, no shows











shales, gray, red, maroon to lavender and green, some mottled, limestone, gray to reddish brown and green, oolitic, arenaceous, dense to brittle, no shows

limestone, cream and variable grays, cryptocrystalline, compact dense lithographic, no shows

conglomerate, shales, red and red-green mottled, variable colored cherts and limestones, some light staining, no free oil, no shows

Mississippian Chert 4290 -2298

30 min sample: chert, white, opaque and boney to translucent, fossiliferous in part, sharp and fresh, very small chips, trace black stain, no free oil, no odor - 60 min sample, a.a., still mostly conglomerate in samples

chert, white to light blue/gray, mostly detrital clusters, rotton to tripolitic, fossiliferous, some very friable, gilsonitic flakey heavy saturated stain, some gas bubbles, no free oil, no odor, poor fluorecence, good to no cut, with: appx 30-40 percent fresh and sharp cherts, white to blue/green to tan - abundant red/gray/green mottled shales, dense-blocky

chert as above, fresh cherts more predominant, stained cherts less rotton, some live/shiney stain, some highly fractured, increase in tripolitic with some solution vugs, trace gas bubbles, trace heavy oil droplets, no odor, scattered fluorecence, fair slow cut - abundant shale a.a. - 60 min sample, influx tan sub-sucrosic limestone

limestone, light gray, cryptocrystalline, lithographc, chalky in part, no shows

Kinderhook Sand 4367 -2375

sandstone, white, pale green and red/brown, very fine grain, well sorted and rounded, well cemented to friable, siliceous to calcareous, black asphaltic staining, poor visible porosity, no show oil, no odor, poor fluorecence, excellent cut, with: chert, white to light green to tan speckled, translucent, sharp, fresh, densely packed with altered sand grains, no stain

60 min sample, influx limestone as @ 4360'

Viola 4390 -2398

chert, boney white to cream, sharp and fresh, some scattered black stain, good cut with halo scattered slight tripolitic (1-2%), light brown stain, gas bubbles, slight show bleeding oil and on break, good fluorecence, no odor in wet cup, no free oil in tray

Total Gas (units) 300
C1 (units) 300
C2 (units) 300
C3 (units) 300
C4 (units) 300
C5 (units) 300

Mud-Co Mud chk @ 4316 ft.
0830 hrs. 5/6/24
Vis. 72 Wt. 9.5
PV 20 YP 21
WL 9.2
Cake 1/32,
pH 9.0
CHL 5000 ppm
Ca 60 ppm
Sol 8.2 LCM 3#
DMC \$1656.06
CMC \$23,779.32

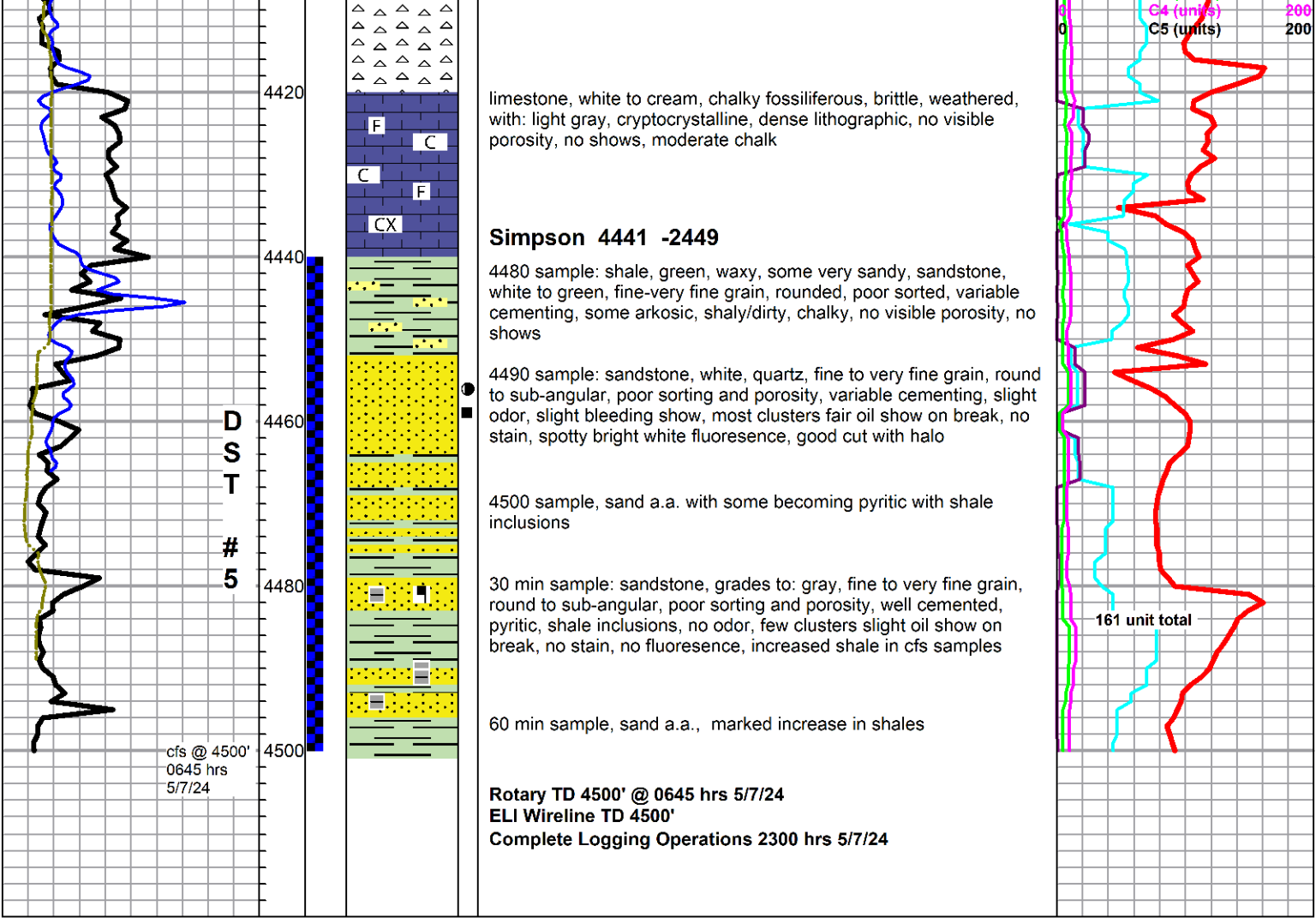
Total Gas (units) 500
C1 (units) 500
C2 (units) 500
C3 (units) 500
C4 (units) 500
C5 (units) 500

459 unit total
277 unit re-cycle

not a kick,
gas was at
this level
coming off
circulation

Mud-Co Mud chk @ 4500ft.
0900 hrs. 5/7/24
Vis. 66 Wt. 9.3
PV 22 YP 21
WL 8.8
Cake 1/32,
pH 9.5
CHL 5000 ppm
Ca 80 ppm
Sol 6.8 LCM 3#
DMC \$1554.96
CMC \$25,334.28

Total Gas (units) 200
C1 (units) 200
C2 (units) 200
C3 (units) 200





DRILL STEM TEST REPORT

Prepared For: **Thomas Garner, Inc.**

20 NE 20th Ave.
St. John, KS 67576

ATTN: Kieth Reavis

M&M Unit #1

27-26s-14w Pratt,KS

Start Date: 2024.05.03 @ 23:49:00

End Date: 2024.05.04 @ 07:21:02

Job Ticket #: 70732 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2024.05.08 @ 12:24:29



Test Start: 2024.05.03 @ 23:49:00

KB to GR/CF: 11.00 ft

FSI: 90 min., no blow back

Gas Rates



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Thomas Garner, Inc.

20 NE 20th Ave.
St. John, KS 67576

ATTN: Kieth Reavis

27-26s-14w Pratt, KS

M&M Unit #1

Job Ticket: 70732

DST#: 1

Test Start: 2024.05.03 @ 23:49:00

GENERAL INFORMATION:

Formation: **Lans. B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:34:17

Time Test Ended: 07:21:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 3870.00 ft (KB) To 3900.00 ft (KB) (TVD)

Reference Elevations: 1994.00 ft (KB)

Total Depth: 3900.00 ft (KB) (TVD)

1983.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6751 Outside

Press@RunDepth: psig @ 3872.00 ft (KB)

Capacity: psig

Start Date: 2024.05.03

End Date:

2024.05.04

Last Calib.:

1899.12.30

Start Time: 23:49:01

End Time:

07:19:02

Time On Btm:

Time Off Btm:

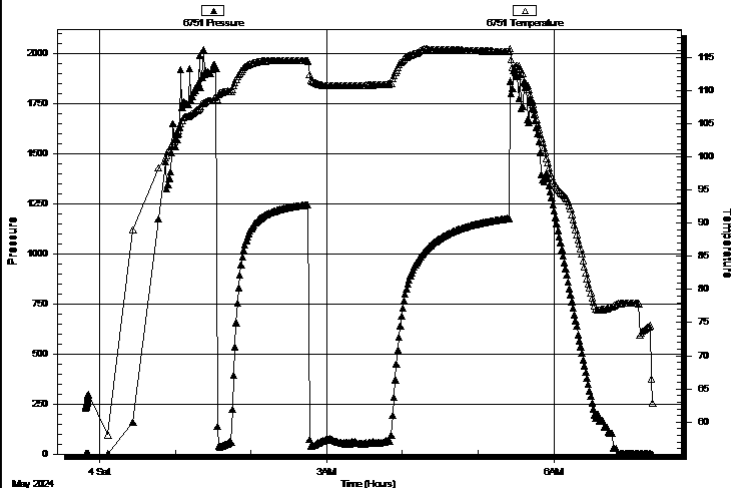
TEST COMMENT: IF: 10 min., BOB 30 sec., strong building blow, 360 inches

IS: 60 min., no blow back

FF: 60 min., BOB ASAO, GTS 20 min., strong building blow

FS: 90 min., no blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
180.00	GOCWM 20%G,20%O,20%W,40%M	0.89

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	9.00	37.12
Last Gas Rate	0.25	2.40	26.65
Max. Gas Rate	0.25	9.00	37.12



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Thomas Garner, Inc.

27-26s-14w Pratt, KS

20 NE 20th Ave.
St. John, KS 67576

M&M Unit #1

Job Ticket: 70732

DST#: 1

ATTN: Kieth Reavis

Test Start: 2024.05.03 @ 23:49:00

Tool Information

Drill Pipe:	Length: 3634.00 ft	Diameter: 3.80 inches	Volume: 50.98 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 90000.00 lb
		Total Volume:	52.01 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	3870.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	60.00 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			3845.00	
Hydraulic tool	5.00			3850.00	
Isolator Sub	3.00			3853.00	
Jars	5.00			3858.00	
Safety Joint	3.00			3861.00	
Packer	5.00			3866.00	30.00 Bottom Of Top Packer
Packer	4.00			3870.00	
Stubb	1.00			3871.00	
Perforations	1.00			3872.00	
Recorder	0.00	6752	Inside	3872.00	
Recorder	0.00	6751	Outside	3872.00	
Pickup sub perf	5.00			3877.00	
Perforations	20.00			3897.00	
Bullnose	3.00			3900.00	30.00 Bottom Packers & Anchor

Total Tool Length: 60.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Thomas Garner, Inc.

27-26s-14w Pratt, KS

20 NE 20th Ave.
St. John, KS 67576

M&M Unit #1

Job Ticket: 70732

DST#: 1

ATTN: Kieth Reavis

Test Start: 2024.05.03 @ 23:49:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 8.78 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

deg API

Water Salinity: 90000 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	GOCWM 20%G,20%O,20%W,40%M	0.885

Total Length: 180.00 ft Total Volume: 0.885 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #:

Laboratory Name:

Laboratory Location: Liberal, KS

Recovery Comments: RW=.102@60F=90000ppm



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Thomas Garner, Inc.

27-26s-14w Pratt, KS

20 NE 20th Ave.
St. John, KS 67576

M&M Unit #1

Job Ticket: 70732

DST#: 1

ATTN: Kieth Reavis

Test Start: 2024.05.03 @ 23:49:00

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	30	0.25	9.00	37.12
2	40	0.25	5.40	31.41
2	50	0.25	3.00	27.60
2	60	0.25	2.40	26.65

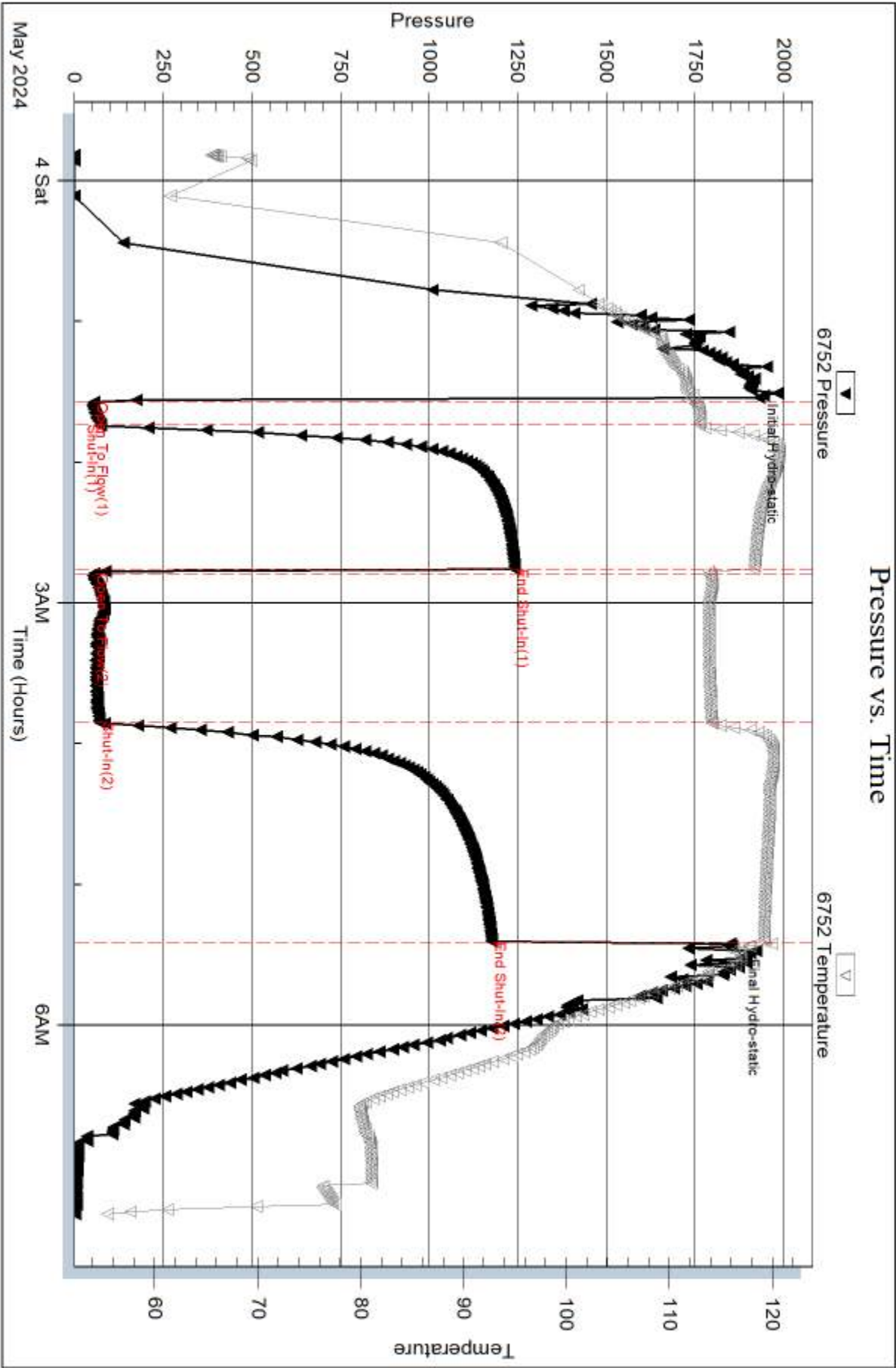
Serial #: 6752

Inside

Thomas Garner, Inc.

M&M Unit #1

DST Test Number: 1

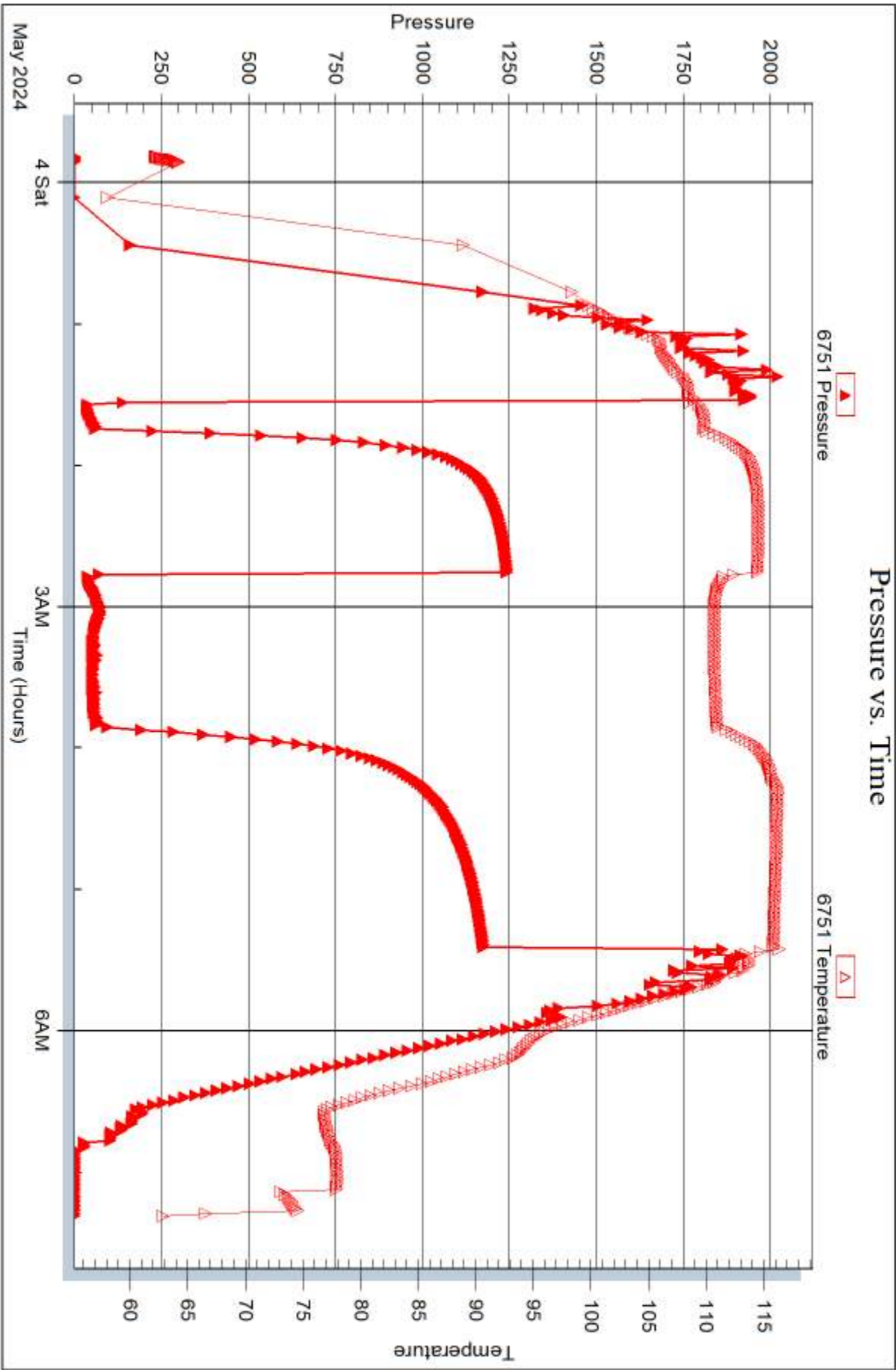


Serial #: 6751

Outside Thomas Garner, Inc.

M&M Unit #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Thomas Garner, Inc.**

20 NE 20th Ave.
St. John, KS 67576

ATTN: Kieth Reavis

M&M Unit #1

27-26s-14w Pratt,KS

Start Date: 2024.05.04 @ 18:35:00

End Date: 2024.05.05 @ 03:13:02

Job Ticket #: 70733 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2024.05.08 @ 11:01:10



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Thomas Garner, Inc.

20 NE 20th Ave.
St. John, KS 67576

ATTN: Kieth Reavis

27-26s-14w Pratt, KS

M&M Unit #1

Job Ticket: 70733

DST#: 2

Test Start: 2024.05.04 @ 18:35:00

GENERAL INFORMATION:

Formation: **Lansing H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:24:17

Time Test Ended: 03:13:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: **3999.00 ft (KB) To 4017.00 ft (KB) (TVD)**

Total Depth: 4017.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1994.00 ft (KB)

1983.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **6752** Inside

Press@RunDepth: 320.67 psig @ 4001.00 ft (KB)

Start Date: 2024.05.04

End Date:

2024.05.05

Start Time: 18:35:01

End Time:

03:13:02

Capacity: psig

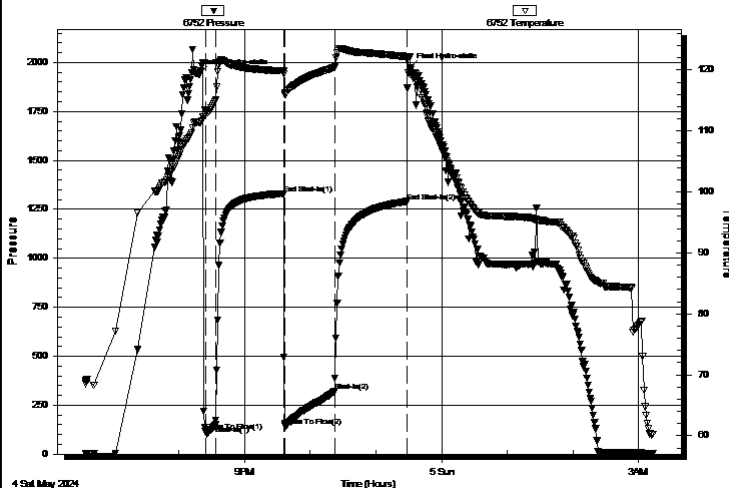
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Time On Btm: 2024.05.04 @ 20:19:02

Time Off Btm: 2024.05.04 @ 23:31:32

TEST COMMENT: IF: 10 min., BOB ASAO, strong building blow, 33 lbs
IS: 60 min., blow back 10 sec., BOB 2 min., 80 inches
FF: 60 min., BOB GTS ASAO, strong building blow
FSI: 60 min., blow back 10 sec., BOB 1 min., 300+ inches

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1940.37	111.43	Initial Hydro-static
6	116.53	113.29	Open To Flow (1)
15	149.40	115.00	Shut-In(1)
77	1330.19	119.82	End Shut-In(1)
79	145.06	115.95	Open To Flow (2)
124	320.67	120.45	Shut-In(2)
190	1290.78	122.20	End Shut-In(2)
193	1975.63	119.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2020.00	gassy oil 15%G,85%O	26.42

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	18.30	54.99
Last Gas Rate			
Max. Gas Rate	0.25	18.30	54.99



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Thomas Garner, Inc.

20 NE 20th Ave.
St. John, KS 67576

ATTN: Kieth Reavis

27-26s-14w Pratt, KS

M&M Unit #1

Job Ticket: 70733

DST#: 2

Test Start: 2024.05.04 @ 18:35:00

GENERAL INFORMATION:

Formation: **Lansing H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:24:17

Time Test Ended: 03:13:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 3999.00 ft (KB) To 4017.00 ft (KB) (TVD)

Total Depth: 4017.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1994.00 ft (KB)

1983.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6751 Outside

Press@RunDepth: psig @ 4001.00 ft (KB)

Start Date: 2024.05.04

End Date:

2024.05.05

Start Time: 18:35:01

End Time:

03:11:02

Capacity: psig

Last Calib.:

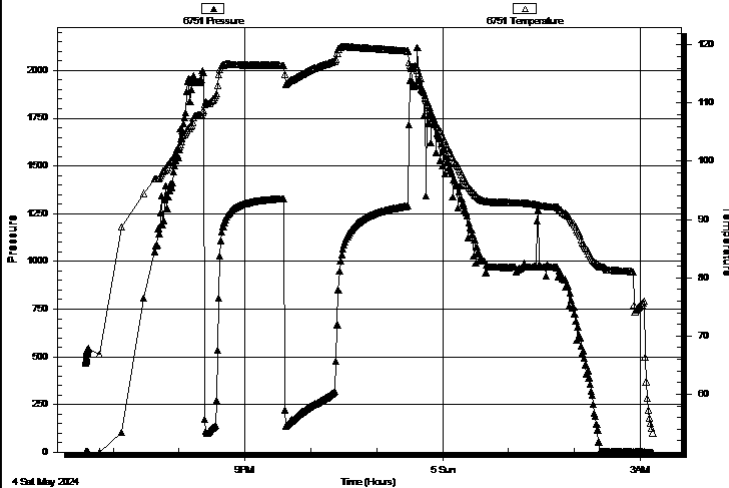
1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 10 min., BOB ASAO, strong building blow, 33 lbs
IS: 60 min., blow back 10 sec., BOB 2 min., 80 inches
FF: 60 min., BOB GTS ASAO, strong building blow
FS: 60 min., blow back 10 sec., BOB 1 min., 300+ inches

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
2020.00	gassy oil 15%G,85%O	26.42

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	18.30	54.99
Last Gas Rate			
Max. Gas Rate	0.25	18.30	54.99



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Thomas Garner, Inc.

27-26s-14w Pratt, KS

20 NE 20th Ave.
St. John, KS 67576

M&M Unit #1

Job Ticket: 70733

DST#: 2

ATTN: Kieth Reavis

Test Start: 2024.05.04 @ 18:35:00

Tool Information

Drill Pipe:	Length:	3763.00 ft	Diameter:	3.80 inches	Volume:	52.78 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	210.00 ft	Diameter:	2.25 inches	Volume:	1.03 bbl	Weight to Pull Loose:	110000.0 lb
					Total Volume:	53.81 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		4.00 ft					String Weight: Initial	80000.00 lb
Depth to Top Packer:		3999.00 ft					Final	85000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		18.00 ft						
Tool Length:		48.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Shut In Tool	5.00			3974.00		
Hydraulic tool	5.00			3979.00		
Isolator Sub	3.00			3982.00		
Jars	5.00			3987.00		
Safety Joint	3.00			3990.00		
Packer	5.00			3995.00	30.00	Bottom Of Top Packer
Packer	4.00			3999.00		
Stubb	1.00			4000.00		
Perforations	1.00			4001.00		
Recorder	0.00	6752	Inside	4001.00		
Recorder	0.00	6751	Outside	4001.00		
Pickup sub perf	5.00			4006.00		
Perforations	8.00			4014.00		
Bullnose	3.00			4017.00	18.00	Bottom Packers & Anchor

Total Tool Length: 48.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Thomas Garner, Inc.

27-26s-14w Pratt, KS

20 NE 20th Ave.
St. John, KS 67576

M&M Unit #1

Job Ticket: 70733

DST#: 2

ATTN: Kieth Reavis

Test Start: 2024.05.04 @ 18:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 8.78 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

33 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2020.00	gassy oil 15%G,85%O	26.422

Total Length: 2020.00 ft Total Volume: 26.422 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API=33@60F

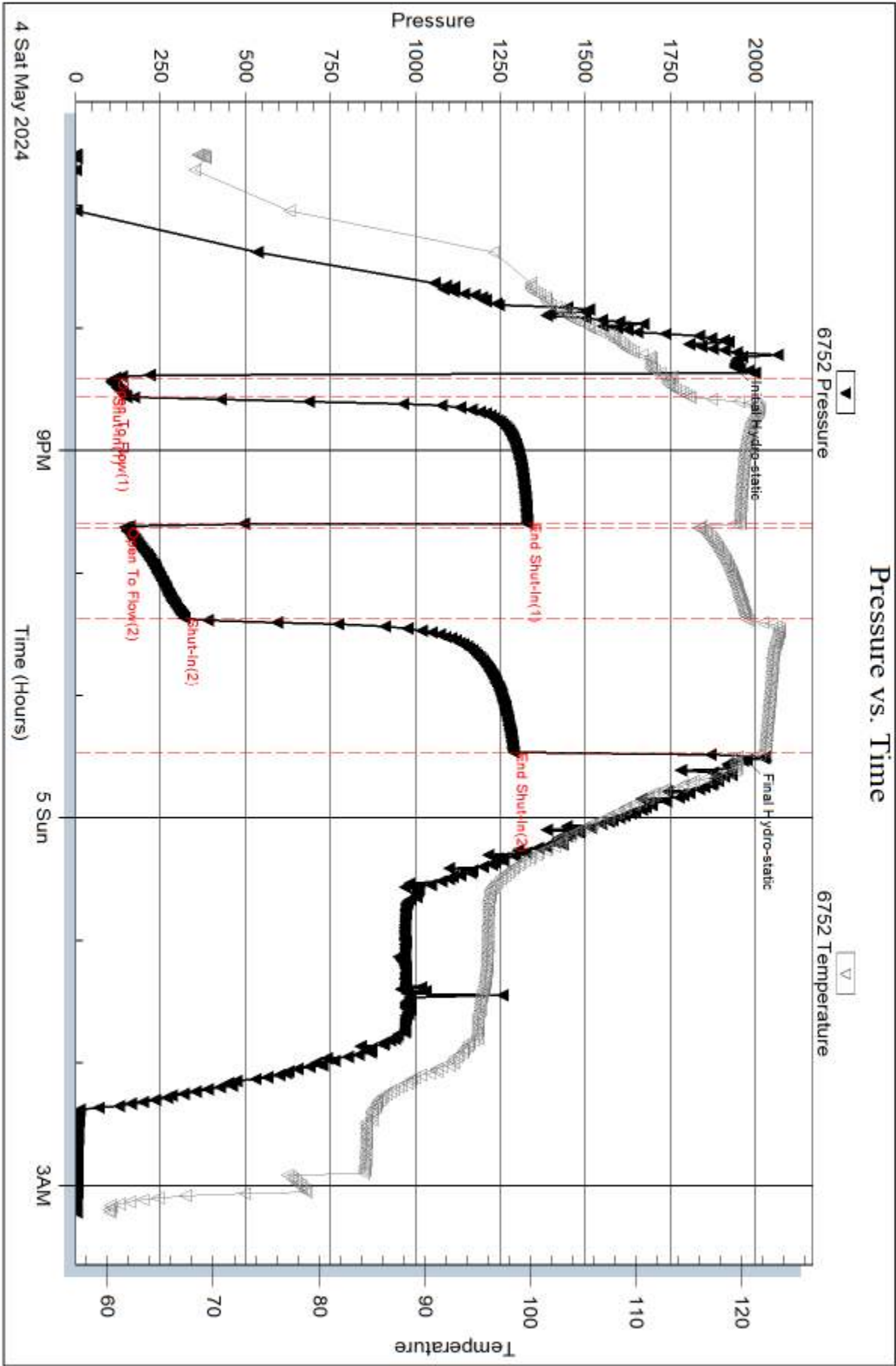
Serial #: 6752

Inside

Thomas Garner, Inc.

M&M Unit #1

DST Test Number: 2

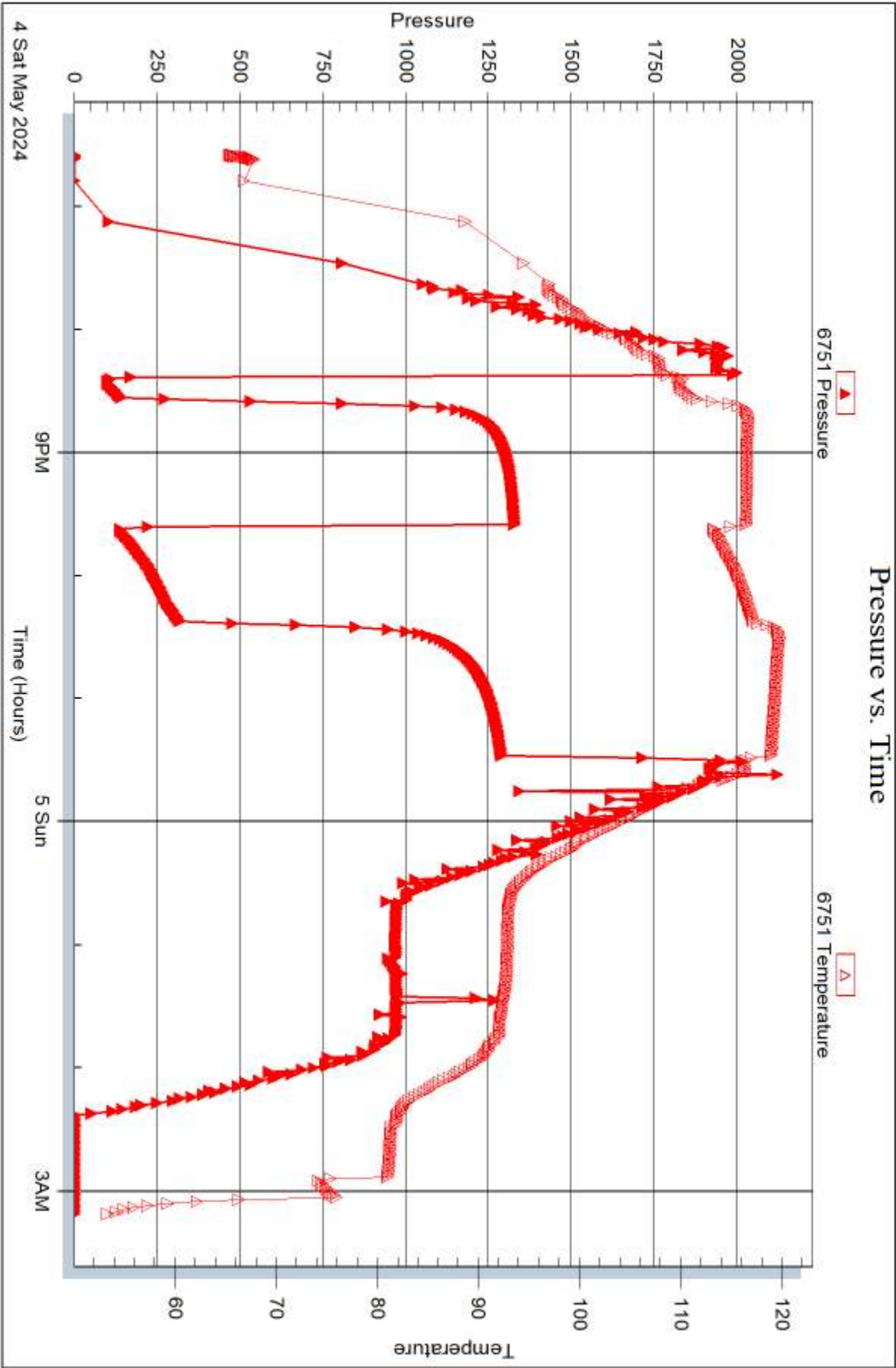


Serial #: 6751

Outside Thomas Garner, Inc.

M&M Unit #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Thomas Garner, Inc.**

20 NE 20th Ave.
St. John, KS 67576

ATTN: Kieth Reavis

M&M Unit #1

27-26s-14w Pratt,KS

Start Date: 2024.05.05 @ 12:26:00

End Date: 2024.05.05 @ 19:08:02

Job Ticket #: 70734 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2024.05.08 @ 11:00:33



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Thomas Garner, Inc.

20 NE 20th Ave.
St. John, KS 67576

ATTN: Kieth Reavis

27-26s-14w Pratt, KS

M&M Unit #1

Job Ticket: 70734

DST#: 3

Test Start: 2024.05.05 @ 12:26:00

GENERAL INFORMATION:

Formation: **Lansing I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:57:02

Time Test Ended: 19:08:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: **4038.00 ft (KB) To 4082.00 ft (KB) (TVD)**

Total Depth: 4082.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1994.00 ft (KB)

1983.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **6751** Outside

Press@RunDepth: 65.41 psig @ 4040.00 ft (KB)

Start Date: 2024.05.05

End Date:

2024.05.05

Start Time: 12:26:01

End Time:

19:08:02

Capacity: psig

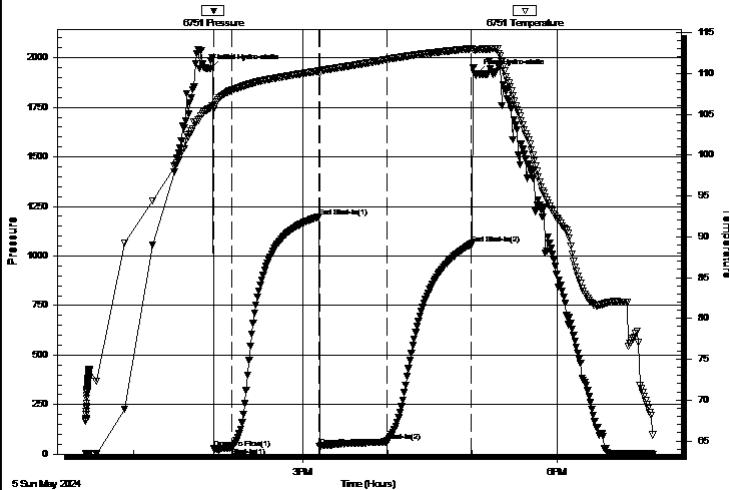
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Time On Btm: 2024.05.05 @ 13:54:32

Time Off Btm: 2024.05.05 @ 17:03:32

TEST COMMENT: IF: 10 min., fair building blow , 4.7 inches
IS: 60 min., no blow back
FF: 45 min., fair building blow , 6.8 inches
FS: 60 min., no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1945.57	105.80	Initial Hydro-static
3	28.08	105.92	Open To Flow (1)
15	34.08	107.94	Shut-In(1)
77	1197.39	110.26	End Shut-In(1)
78	40.35	110.06	Open To Flow (2)
125	65.41	111.72	Shut-In(2)
185	1059.22	113.03	End Shut-In(2)
189	1919.16	112.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gassy oily mud 5%G,1%O,94%M	0.30

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Thomas Garner, Inc.

20 NE 20th Ave.
St. John, KS 67576

ATTN: Kieth Reavis

27-26s-14w Pratt, KS

M&M Unit #1

Job Ticket: 70734

DST#: 3

Test Start: 2024.05.05 @ 12:26:00

GENERAL INFORMATION:

Formation: **Lansing I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:57:02

Time Test Ended: 19:08:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: **4038.00 ft (KB) To 4082.00 ft (KB) (TVD)**

Total Depth: 4082.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1994.00 ft (KB)

1983.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **6752** Inside

Press@RunDepth: psig @ 4040.00 ft (KB)

Start Date: 2024.05.05

End Date:

2024.05.05

Start Time: 12:26:01

End Time:

19:08:02

Capacity: psig

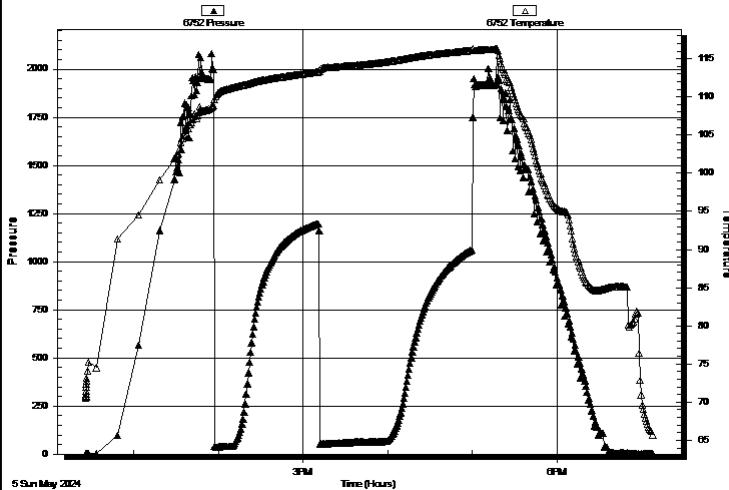
Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 10 min., fair building blow , 4.7 inches
IS: 60 min., no blow back
FF: 45 min., fair building blow , 6.8 inches
FS: 60 min., no blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gassy oily mud 5%G,1%O,94%M	0.30

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Thomas Garner, Inc.

27-26s-14w Pratt, KS

20 NE 20th Ave.
St. John, KS 67576

M&M Unit #1

Job Ticket: 70734

DST#: 3

ATTN: Kieth Reavis

Test Start: 2024.05.05 @ 12:26:00

Tool Information

Drill Pipe:	Length: 3826.00 ft	Diameter: 3.80 inches	Volume: 53.67 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose:	110000.0 lb
		Total Volume:	54.70 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	82000.00 lb
Depth to Top Packer:	4038.00 ft			Final	82000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	44.00 ft				
Tool Length:	74.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4013.00	
Hydraulic tool	5.00			4018.00	
Isolator Sub	3.00			4021.00	
Jars	5.00			4026.00	
Safety Joint	3.00			4029.00	
Packer	5.00			4034.00	30.00 Bottom Of Top Packer
Packer	4.00			4038.00	
Stubb	1.00			4039.00	
Perforations	1.00			4040.00	
Recorder	0.00	6752	Inside	4040.00	
Recorder	0.00	6751	Outside	4040.00	
Pickup sub perf	5.00			4045.00	
Change Over Sub	1.00			4046.00	
Drill Pipe	32.00			4078.00	
Change Over Sub	1.00			4079.00	
Bullnose	3.00			4082.00	44.00 Bottom Packers & Anchor
Total Tool Length:	74.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Thomas Garner, Inc.

27-26s-14w Pratt, KS

20 NE 20th Ave.
St. John, KS 67576

M&M Unit #1

Job Ticket: 70734

DST#: 3

ATTN: Kieth Reavis

Test Start: 2024.05.05 @ 12:26:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 62.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	gassy oily mud 5%G,1%O,94%M	0.295

Total Length: 60.00 ft

Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

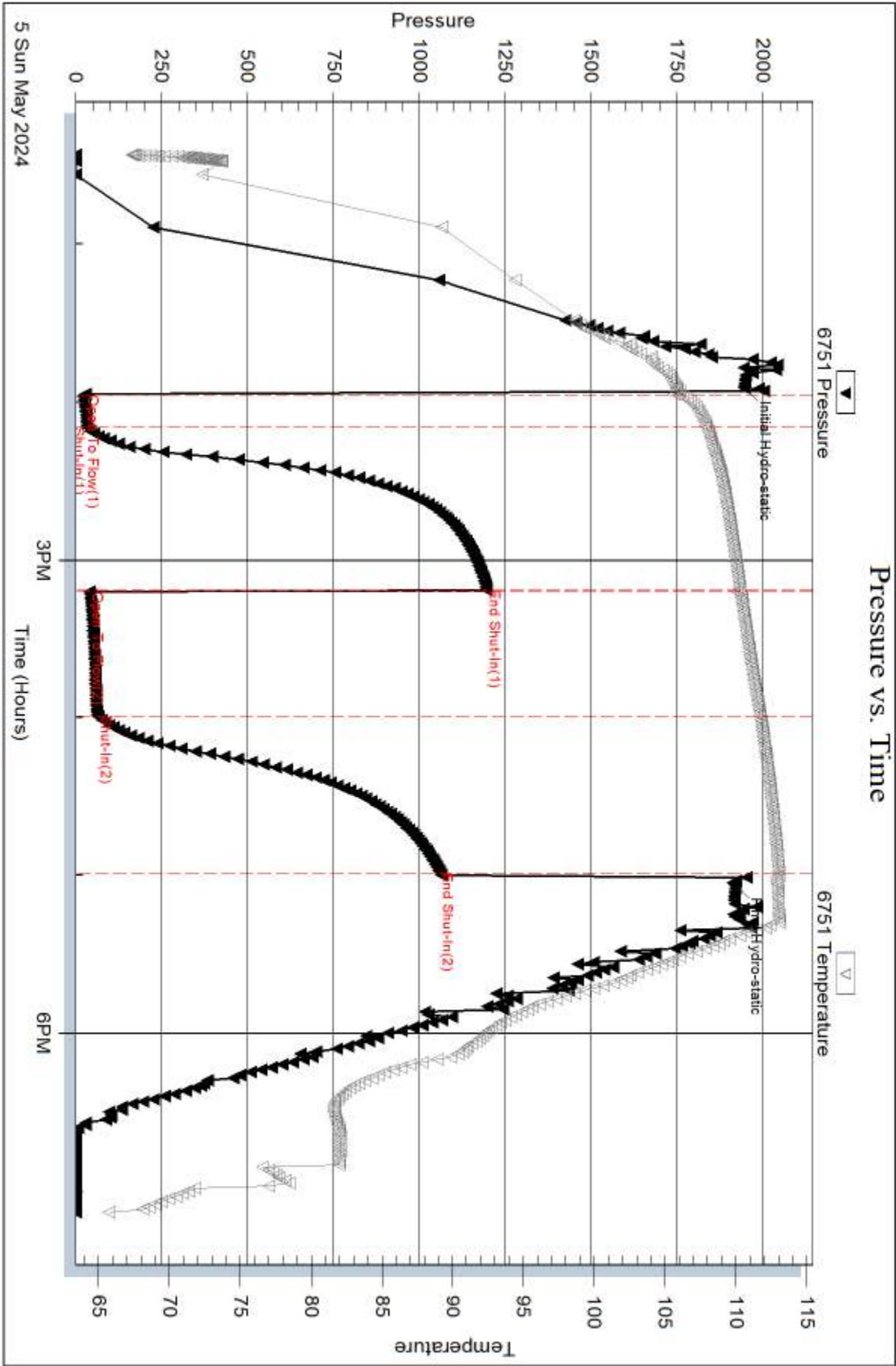
Recovery Comments:

Serial #: 6751

Outside Thomas Garner, Inc.

M&M Unit #1

DST Test Number: 3



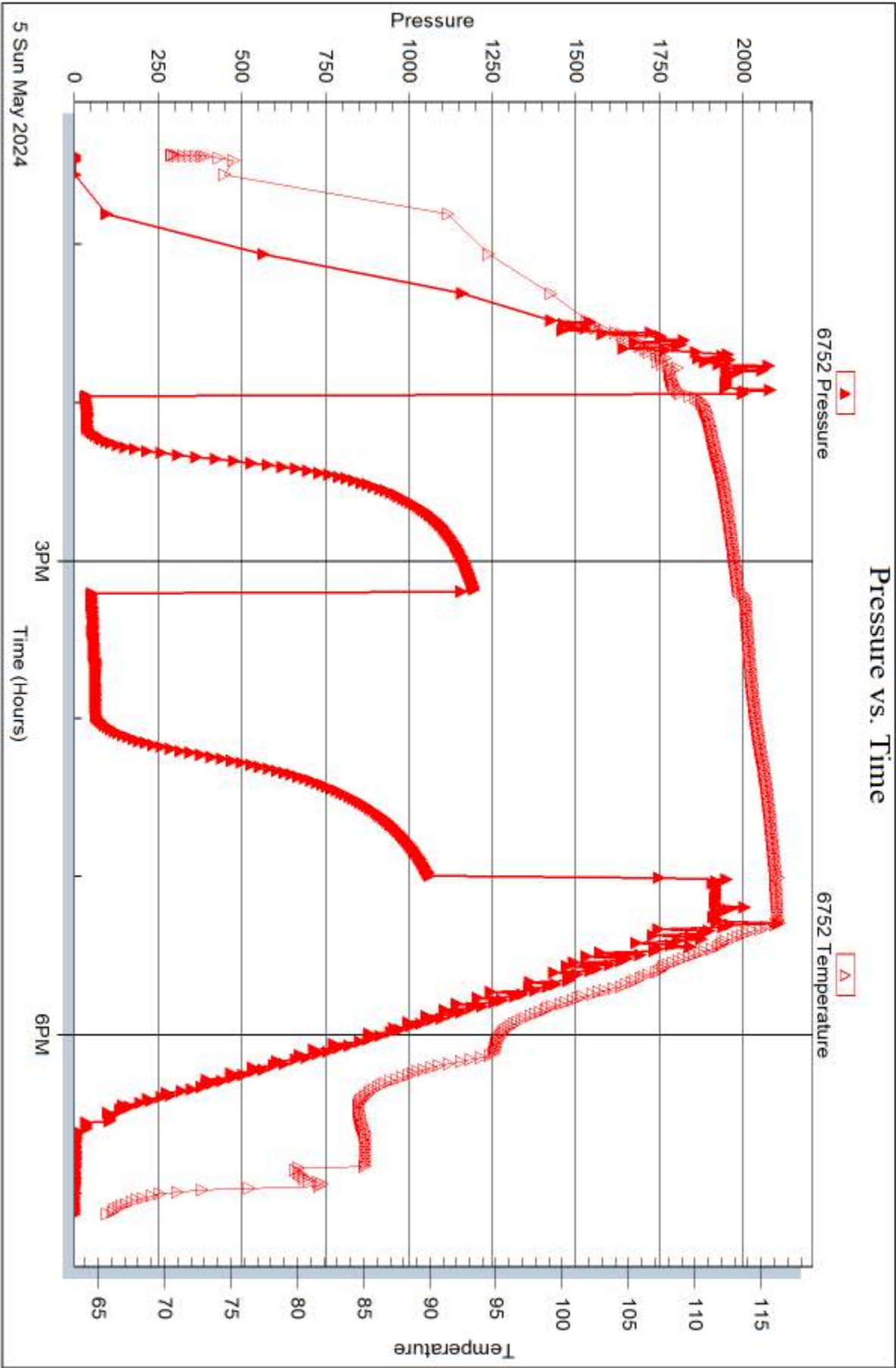
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Inside

Thomas Garner, Inc.

M&M Unit #1

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Thomas Garner, Inc.**

20 NE 20th Ave.
St. John, KS 67576

ATTN: Kieth Reavis

M&M Unit #1

27-26s-14w Pratt,KS

Start Date: 2024.05.06 @ 09:01:00

End Date: 2024.05.06 @ 19:16:47

Job Ticket #: 70735 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2024.05.08 @ 10:51:47



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Thomas Garner, Inc.

20 NE 20th Ave.
St. John, KS 67576

ATTN: Kieth Reavis

27-26s-14w Pratt, KS

M&M Unit #1

Job Ticket: 70735

DST#: 4

Test Start: 2024.05.06 @ 09:01:00

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:53:47

Time Test Ended: 19:16:47

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: **4260.00 ft (KB) To 4316.00 ft (KB) (TVD)**

Total Depth: 4316.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1994.00 ft (KB)

1983.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **6751** Outside

Press@RunDepth: 38.41 psig @ 4262.00 ft (KB)

Start Date: 2024.05.06

End Date:

2024.05.06

Start Time: 09:01:01

End Time:

19:16:47

Capacity: psig

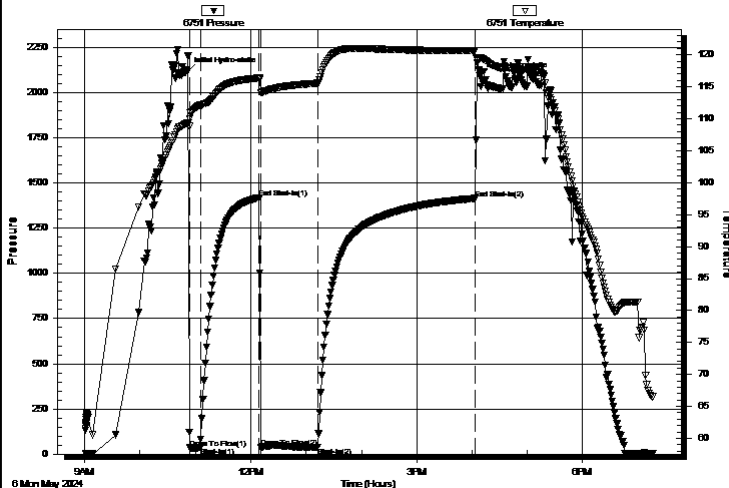
Last Calib.: 1899.12.30

Time On Btm: 2024.05.06 @ 10:51:17

Time Off Btm: 2024.05.06 @ 16:08:32

TEST COMMENT: IF: 10 min., BOB 1 min., strong building blow, 102 inches
IS: 60 min., no blow back
FF: 60 min., BOB ASAO, GTS 30 min., strong building blow
FS: 180 min., no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2117.33	109.34	Initial Hydro-static
3	34.90	109.97	Open To Flow (1)
14	38.12	112.16	Shut-In(1)
78	1418.85	116.34	End Shut-In(1)
80	37.24	114.09	Open To Flow (2)
142	38.41	115.56	Shut-In(2)
312	1414.74	120.68	End Shut-In(2)
318	2089.06	119.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	gassy mud 5%G,95%M	0.15

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	13.00	43.47
Last Gas Rate			
Max. Gas Rate	0.25	13.00	43.47



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Thomas Garner, Inc.

20 NE 20th Ave.
St. John, KS 67576

ATTN: Kieth Reavis

27-26s-14w Pratt, KS

M&M Unit #1

Job Ticket: 70735

DST#: 4

Test Start: 2024.05.06 @ 09:01:00

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:53:47

Time Test Ended: 19:16:47

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: **4260.00 ft (KB) To 4316.00 ft (KB) (TVD)**

Total Depth: 4316.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1994.00 ft (KB)

1983.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **6752** Inside

Press@RunDepth: psig @ 4262.00 ft (KB)

Start Date: 2024.05.06

End Date:

2024.05.06

Start Time: 09:01:01

End Time:

19:16:47

Capacity: psig

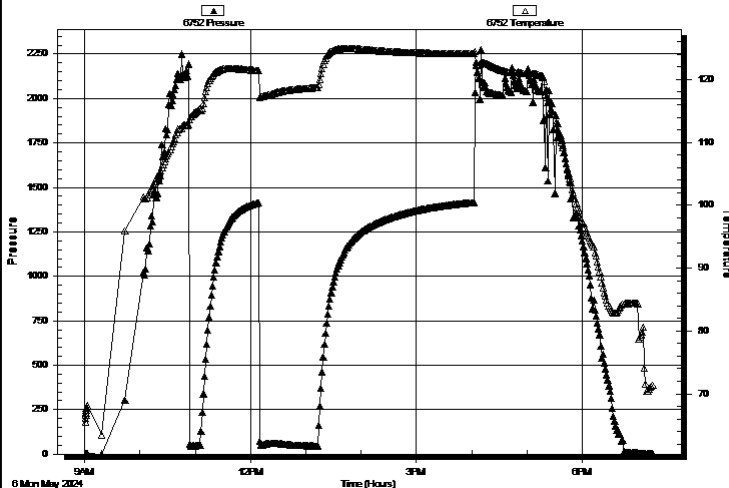
Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 10 min., BOB 1 min., strong building blow, 102 inches
IS: 60 min., no blow back
FF: 60 min., BOB ASAO, GTS 30 min., strong building blow
FS: 180 min., no blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	gassy mud 5%G,95%M	0.15

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	13.00	43.47
Last Gas Rate			
Max. Gas Rate	0.25	13.00	43.47



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Thomas Garner, Inc.

27-26s-14w Pratt, KS

20 NE 20th Ave.
St. John, KS 67576

M&M Unit #1

Job Ticket: 70735

DST#: 4

ATTN: Kieth Reavis

Test Start: 2024.05.06 @ 09:01:00

Tool Information

Drill Pipe:	Length: 4050.00 ft	Diameter: 3.80 inches	Volume: 56.81 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose:	90000.00 lb
		Total Volume:	57.84 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	73000.00 lb
Depth to Top Packer:	4260.00 ft			Final	73000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	56.00 ft				
Tool Length:	86.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4235.00	
Hydraulic tool	5.00			4240.00	
Isolator Sub	3.00			4243.00	
Jars	5.00			4248.00	
Safety Joint	3.00			4251.00	
Packer	5.00			4256.00	30.00 Bottom Of Top Packer
Packer	4.00			4260.00	
Stubb	1.00			4261.00	
Perforations	1.00			4262.00	
Recorder	0.00	6752	Inside	4262.00	
Recorder	0.00	6751	Outside	4262.00	
Pickup sub perf	5.00			4267.00	
Perforations	12.00			4279.00	
Change Over Sub	1.00			4280.00	
Drill Pipe	32.00			4312.00	
Change Over Sub	1.00			4313.00	
Bullnose	3.00			4316.00	56.00 Bottom Packers & Anchor
Total Tool Length:	86.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Thomas Garner, Inc.

27-26s-14w Pratt, KS

20 NE 20th Ave.
St. John, KS 67576

M&M Unit #1

Job Ticket: 70735

DST#: 4

ATTN: Kieth Reavis

Test Start: 2024.05.06 @ 09:01:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 72.00 sec/qt

Water Loss: 9.19 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	gassy mud 5%G,95%M	0.148

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

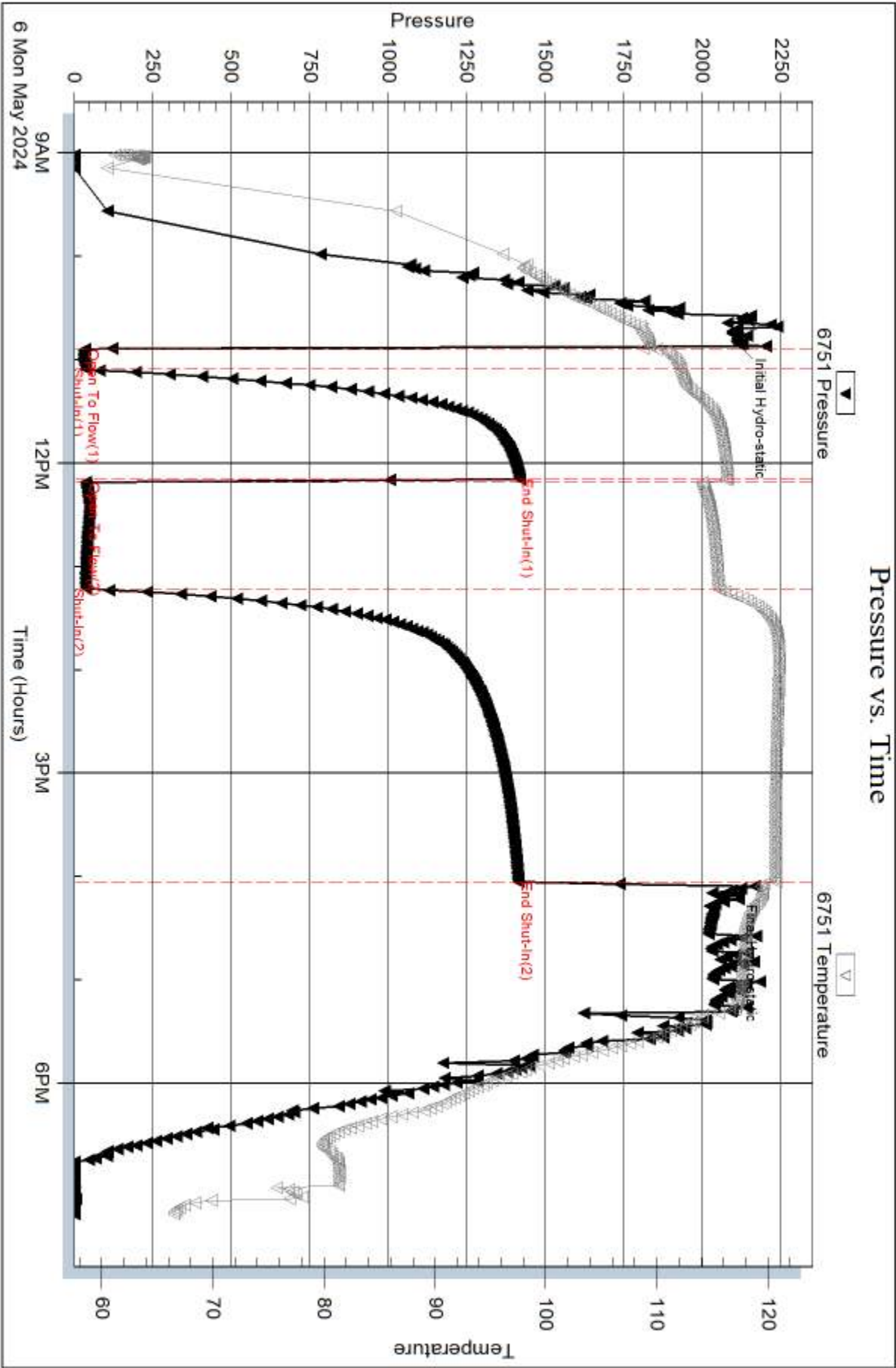
Recovery Comments:

Serial #: 6751

Outside Thomas Garner, Inc.

M&M Unit #1

DST Test Number: 4



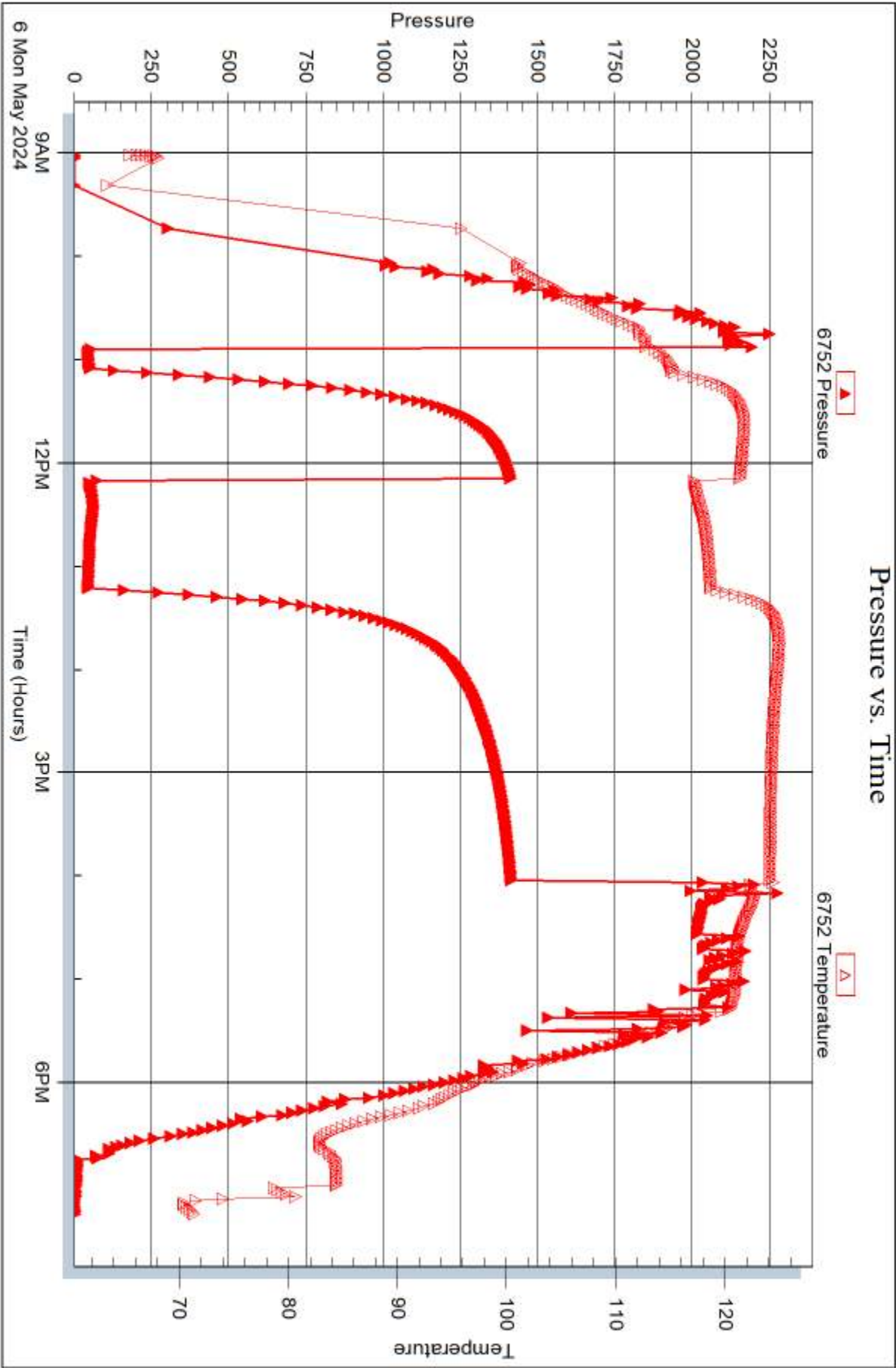
Serial #: 6752

Inside

Thomas Garner, Inc.

M&M Unit #1

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Thomas Garner, Inc.**

20 NE 20th Ave.
St. John, KS 67576

ATTN: Kieth Reavis

M&M Unit #1

27-26s-14w Pratt,KS

Start Date: 2024.05.07 @ 11:20:00

End Date: 2024.05.07 @ 17:44:02

Job Ticket #: 70736 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2024.05.08 @ 10:39:10



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Thomas Garner, Inc.

20 NE 20th Ave.
St. John, KS 67576

ATTN: Kieth Reavis

27-26s-14w Pratt, KS

M&M Unit #1

Job Ticket: 70736

DST#: 5

Test Start: 2024.05.07 @ 11:20:00

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:57:02

Time Test Ended: 17:44:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: **4440.00 ft (KB) To 4500.00 ft (KB) (TVD)**

Reference Elevations: 1994.00 ft (KB)

Total Depth: 4500.00 ft (KB) (TVD)

1983.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: **6751** Outside

Press@RunDepth: 1319.94 psig @ 4443.00 ft (KB)

Capacity: psig

Start Date: 2024.05.07

End Date: 2024.05.07

Last Calib.: 1899.12.30

Start Time: 11:20:01

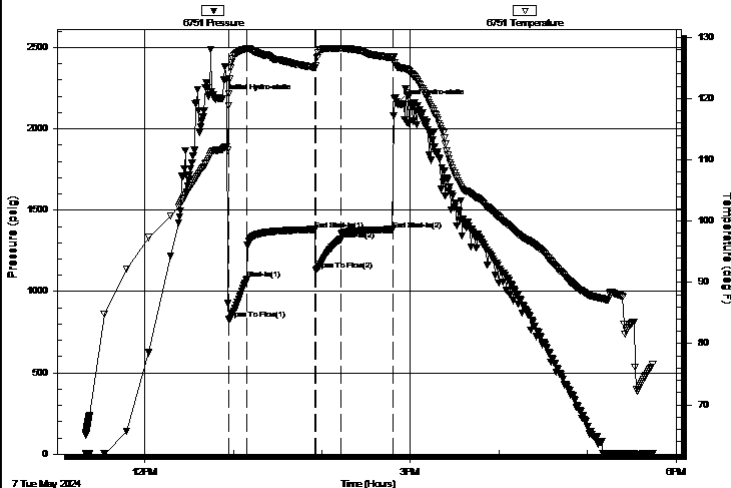
End Time: 17:44:02

Time On Btm: 2024.05.07 @ 12:53:02

Time Off Btm: 2024.05.07 @ 14:51:02

TEST COMMENT: IF: 10 min., BOB 2 min., strong building blow , 300 inches
IS: 45 min., blow back 30 sec., 3.5 inches
IS: 15 min., BOB 30 sec., strong building blow , 178 inches
FS: 30 min., no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2184.35	111.72	Initial Hydro-static
4	828.97	120.73	Open To Flow (1)
16	1075.42	128.09	Shut-In(1)
63	1380.18	125.09	End Shut-In(1)
63	1132.64	125.30	Open To Flow (2)
80	1319.94	128.13	Shut-In(2)
115	1381.36	126.59	End Shut-In(2)
118	2154.38	125.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2830.00	100%W	37.78

Gas Rates

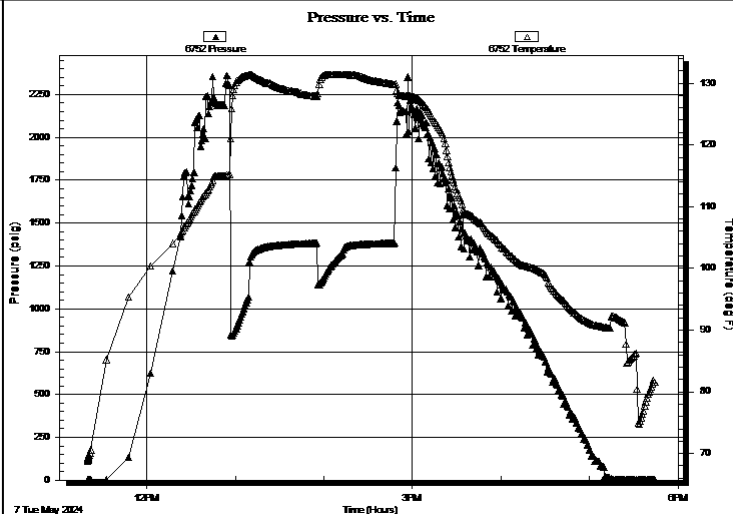
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Test Start: 2024.05.07 @ 11:20:00

KB to GR/CF: 11.00 ft

TEST COMMENT: IF: 10 min., BOB 2 min., strong building blow , 300 inches
IS: 45 min., blow back 30 sec., 3.5 inches
IS: 15 min., BOB 30 sec., strong building blow , 178 inches
FS: 30 min., no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2830.00	100%W	37.78

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Thomas Garner, Inc.

27-26s-14w Pratt, KS

20 NE 20th Ave.
St. John, KS 67576

M&M Unit #1

Job Ticket: 70736

DST#: 5

ATTN: Kieth Reavis

Test Start: 2024.05.07 @ 11:20:00

Tool Information

Drill Pipe:	Length:	4208.00 ft	Diameter:	3.80 inches	Volume:	59.03 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	210.00 ft	Diameter:	2.25 inches	Volume:	1.03 bbl	Weight to Pull Loose:	100000.0 lb
					Total Volume:	60.06 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft							
Depth to Top Packer:	4440.00 ft							
Depth to Bottom Packer:	ft							
Interval between Packers:	60.00 ft							
Tool Length:	90.00 ft							
Number of Packers:	2		Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4415.00	
Hydraulic tool	5.00			4420.00	
Isolator Sub	3.00			4423.00	
Jars	5.00			4428.00	
Safety Joint	3.00			4431.00	
Packer	5.00			4436.00	30.00 Bottom Of Top Packer
Packer	4.00			4440.00	
Stubb	1.00			4441.00	
Perforations	2.00			4443.00	
Recorder	0.00	6752	Inside	4443.00	
Recorder	0.00	6751	Outside	4443.00	
Pickup sub perf	5.00			4448.00	
Perforations	15.00			4463.00	
Change Over Sub	1.00			4464.00	
Drill Pipe	32.00			4496.00	
Change Over Sub	1.00			4497.00	
Bullnose	3.00			4500.00	60.00 Bottom Packers & Anchor
Total Tool Length:	90.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Thomas Garner, Inc.

27-26s-14w Pratt, KS

20 NE 20th Ave.
St. John, KS 67576

M&M Unit #1

Job Ticket: 70736

DST#: 5

ATTN: Kieth Reavis

Test Start: 2024.05.07 @ 11:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 66.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity: 88000 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2830.00	100%W	37.784

Total Length: 2830.00 ft Total Volume: 37.784 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

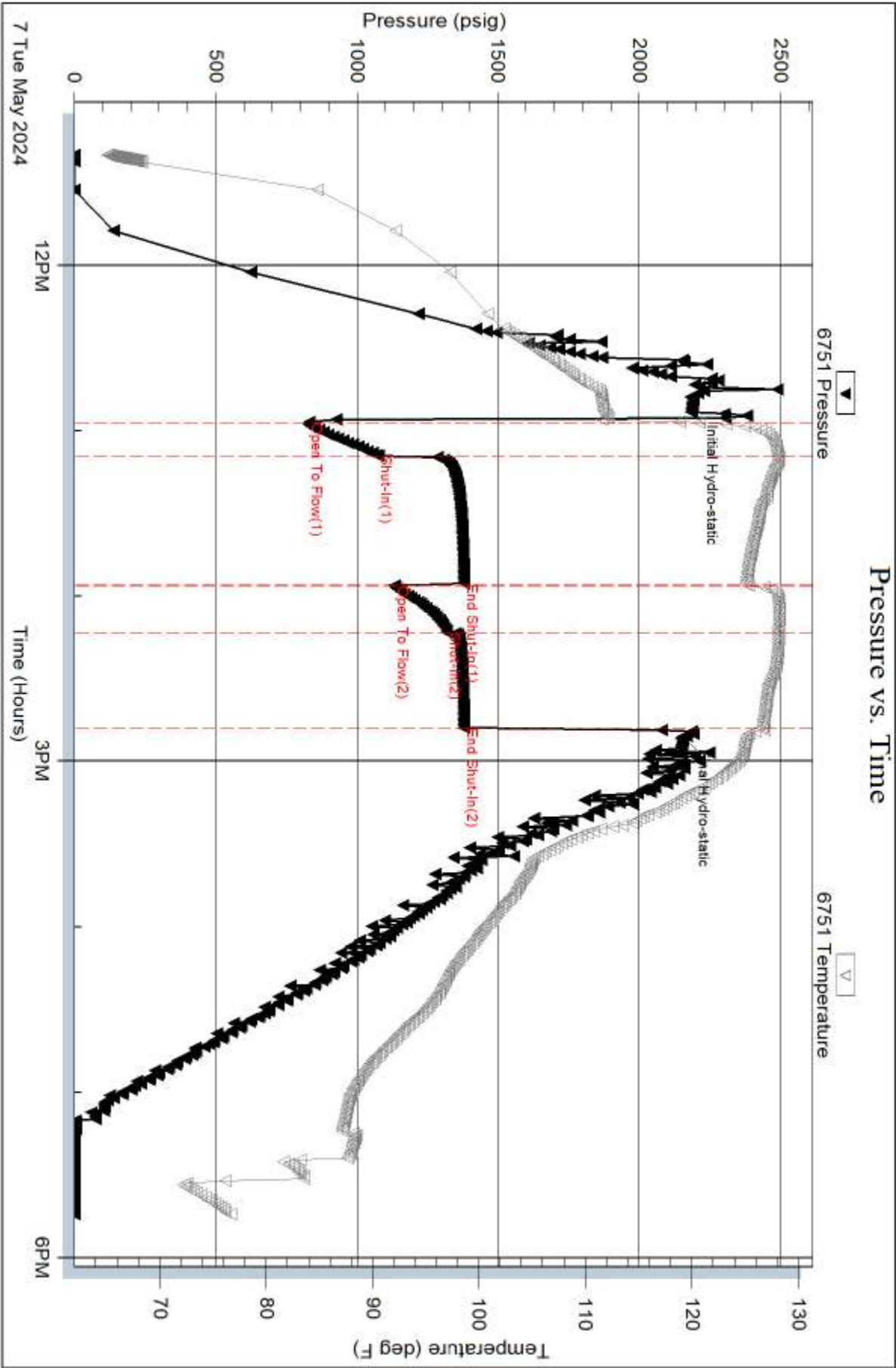
Recovery Comments: RW=.077@80F=88000ppm

Serial #: 6751

Outside Thomas Garner, Inc.

M&M Unit #1

DST Test Number: 5



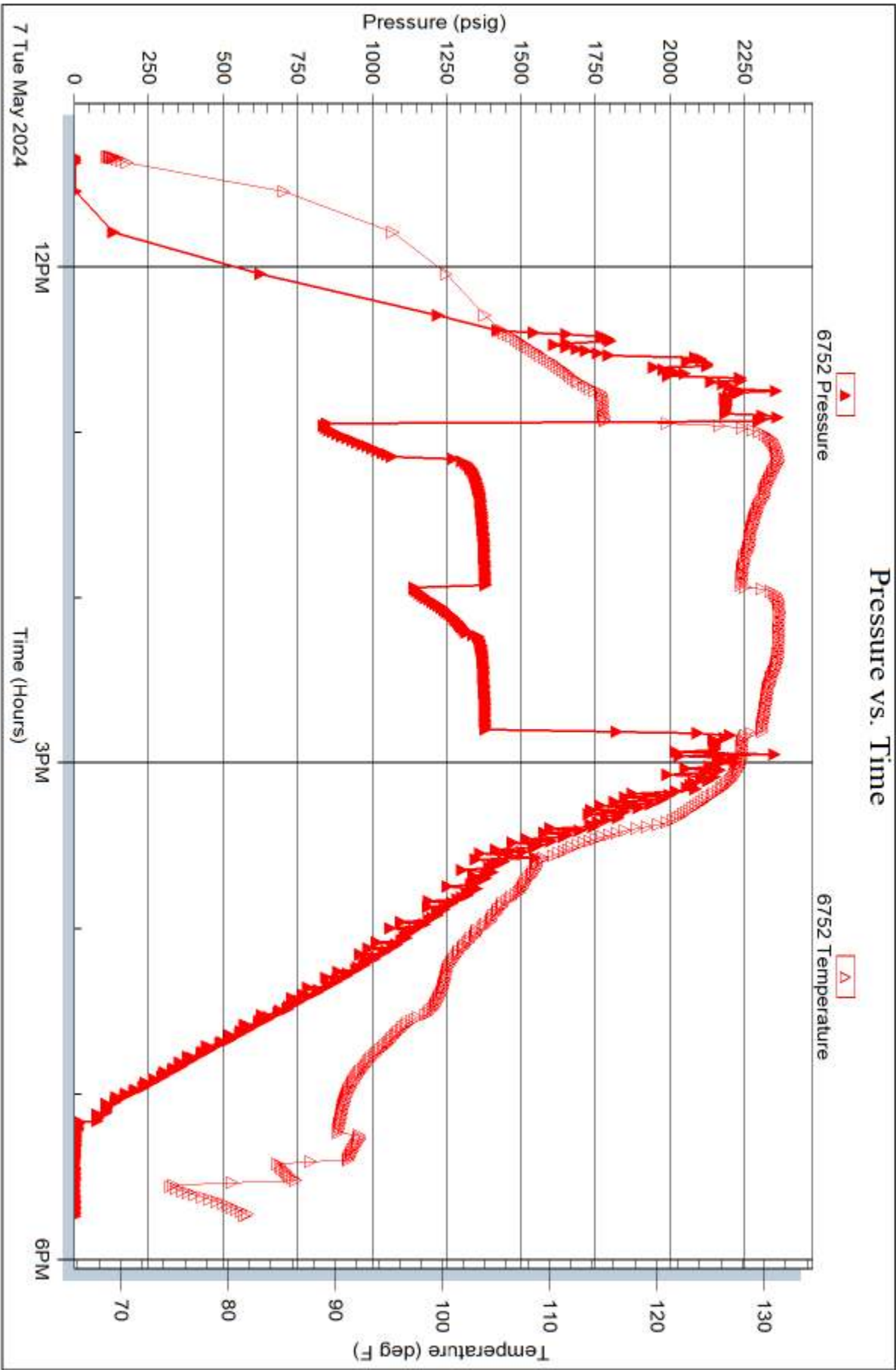
Serial #: 6752

Inside

Thomas Garner, Inc.

M&M Unit #1

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70732

Well Name & No. Thomas Garner, Inc. M-17 Unit 1 Test No. 1 Date 5-3-24
Company Thomas Garner, Inc. Elevation 1994 KB 1983 GL
Address 20 NE 20th Ave St. John, KS 67576
Co. Rep / Geo Keith Reavis Rig Sterling #4
Location: Sec. 27 Twp 26 Rge. 14 Co. Pratt State KS

Interval Tested 3870-3900 Zone Tested Lansing B
Anchor Length 30' Drill Pipe Run 3634 Mud Wt. 9.1
Top Packer Depth 3865 Drill Collars Run 210 Vis 51
Bottom Packer Depth 3870 Wt. Pipe Run N.A. WL 8.8
Total Depth 3900 Chlorides 3000 ppm System LCM 3rd

Blow Description IP: 10 min., BOB 30 sec., strong building blow, 360 inches
ISI: 60 min., no blow back
FP: 60 min., BOB 45 sec., GTS 20 min., strong building blow
FSL: 90 min., no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>gassy oil cut w/very mud</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>40</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	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 180 BHT 119 Gravity 1.02 API RW 60 *F Chlorides 90,000 ppm

Initial Hydrostatic 1909 ☒ Test conv. 1800 ☐ Ruined Shale Packer

Initial Flow 57 to 75 ☒ Jars 300 ☐ Ruined Packer

Initial Shut-In 1242 ☐ Circ Sub ☐ Hotel

Final Flow 56 to 72 ☐ Hourly Standby ☒ EM Tool Successful good

Final Shut-In 1179 ☒ Mileage 20 35 ☐ Accessibility

Final Hydrostatic 1855 ☐ Sampler ☒ Gas Sample 80

T- On Location 2230 ☐ Straddle ☐ Oversized Hole

Initial Flow 10 T-Started 2345 ☐ Shale Packer ☐ Sub Total 80

Initial Shut-In 60 T-Open 0140 ☐ Extra Packer ☐ Total 2215

Final Flow 60 T-Pulled 0520 ☐ Extra Recorder ☐ Tool Loaded @

Final Shut-In 90 T-Out 0730 ☐ Day Standby ☐ MP/DST Disc't

Comments

Approved By _____ Our Representative Chris Rogers

Trilobite Testing Inc. shall not be liable for damage of any kind of 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

NO. 70733

Well Name & No. Thomas M+M Unit #1 Test No. 2 Date 5-4-24
 Company Thomas Gurner Inc. Elevation 1994 KB 1983 GL
 Address 20 NE 20th Ave St. John, KS 67576
 Co. Rep / Geo Keith Reavis Rig Sterling 64
 Location: Sec. 27 Twp 26 Rge. 14 Co. Pratt State KS

Interval Tested 3999-4017 Zone Tested Lansing H
 Anchor Length 18' Drill Pipe Run 3763 Mud Wt. 9.1
 Top Packer Depth 3994 Drill Collars Run 210 Vis 51
 Bottom Packer Depth 3999 Wt. Pipe Run N.A. WL 8.8
 Total Depth 4017 Chlorides 3000 ppm System LCM 3
 Blow Description IP: 10 min., BOB ASAO, strong building blow, 33 lbs
ISP: 60 min., blow back 10 sec., BOB 2 min., 80 inches
FF: 60 min., BOB GTS ASAO, strong building blow
PSB: 60 min., blow back 10 sec., BOB 1 min., 300+ inches

Rec <u>2020</u>	Feet of <u>gassy oil</u>	15 %gas	85 %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	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2020 BHT 123 Gravity 33 API RW @ °F Chlorides ppm
 Initial Hydrostatic 1940 ☒ Test conv. 1950 ☐ Ruined Shale Packer
 Initial Flow 117 to 149 ☒ Jars 300 ☐ Ruined Packer
 Initial Shut-In 1330 ☐ Circ Sub 50 ☐ Hotel
 Final Flow 145 to 321 ☐ Hourly Standby ☒ REM Tool Successful good
 Final Shut-In 1291 ☒ Mileage x20 35 ☐ Accessibility
 Final Hydrostatic 1976 ☐ Sampler ☒ Gas Sample 80
 T-On Location 1800 ☐ Straddle ☐ Oversized Hole
 Initial Flow 10 T-Started 1830 ☐ Shale Packer ☐ Sub Total 80
 Initial Shut-In 60 T-Open 2030 ☐ Extra Packer ☐ Total 2415
 Final Flow 60 T-Pulled 2340 ☐ Extra Recorder ☐ Tool Loaded @
 Final Shut-In 60 T-Out 0330 ☐ Day Standby ☐ MP/DST Disc't

Comments _____
 Approved By _____ Our Representative Chris Hagan

Trilobite Testing Inc. shall not be liable for damage of any kind of 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

NO. 70734

Well Name & No. <u>MOM Unit #1</u>	Test No. <u>3</u>	Date <u>5-5-24</u>
Company <u>Thomas Corner, Inc.</u>	Elevation <u>1994</u>	KB <u>1983</u> GL
Address <u>20 NE 20th Ave St. John, KS</u>		
Co. Rep / Geo <u>Keith Ravis</u>	Rig <u>Sterling #4</u>	
Location: Sec. <u>27</u> Twp <u>26</u> Rge. <u>14</u>	Co. <u>Pratt</u>	State <u>KS</u>

Interval Tested <u>4038-4082</u>	Zone Tested <u>Lansing I</u>
Anchor Length <u>44'</u>	Drill Pipe Run <u>3826</u> Mud Wt. <u>9.3</u>
Top Packer Depth <u>4033</u>	Drill Collars Run <u>210</u> Vis <u>62</u>
Bottom Packer Depth <u>4038</u>	Wt. Pipe Run <u>N.A.</u> WL <u>8.8</u>
Total Depth <u>4082</u>	Chlorides <u>5000</u> ppm System LCM <u>3-H</u>

Blow Description IF: 10 min., fair building blow, 4.7 inches
FSB: 60 min., no blow back
FF: 45 min., fair building blow, 6.8 inches
FSB: 60 min., no blow back

Rec <u>60</u>	Feet of <u>gassy oily mud</u>	<u>5</u> %gas	<u>1</u> %oil	%water	<u>94</u> %mud
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	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total <u>60</u>	BHT <u>113</u>	Gravity	API RW	@	*F Chlorides	ppm
Initial Hydrostatic <u>1946</u>	☒ Test <u>CONV. 1950</u>	☐ Ruined Shale Packer				
Initial Flow <u>28</u> to <u>34</u>	☒ Jars <u>300</u>	☐ Ruined Packer				
Initial Shut-In <u>1197</u>	☒ Circ Sub <u>X 1.0 (DST #2)</u>	☐ Hotel				
Final Flow <u>40</u> to <u>65</u>	☐ Hourly Standby	☒ EM Tool Successful <u>good</u>				
Final Shut-In <u>1059</u>	☒ Mileage <u>220 35</u>	☐ Accessibility				
Final Hydrostatic <u>1919</u>	☐ Sampler	☐ Gas Sample				
T- On Location <u>1226</u>	☐ Straddle	☐ Oversized Hole				
Initial Flow <u>10</u> T-Started <u>1230</u>	☐ Shale Packer	☐ Sub Total <u>0</u>				
Initial Shut-In <u>60</u> T-Open <u>1400</u>	☐ Extra Packer	☐ Total <u>2285</u>				
Final Flow <u>45</u> T-Pulled <u>1655</u>	☐ Extra Recorder	☐ Tool Loaded @				
Final Shut-In <u>60</u> T-Out <u>1900</u>	☐ Day Standby	☐ MP/DST Disc't				
Comments						

Approved By _____ Our Representative Chris Hegman

Trilobite Testing Inc. shall not be liable for damage of any kind of 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

NO. 70735

Well Name & No. 1727 Unit #1 Test No. 4 Date 5-6-24
 Company Thomas Garner, Inc. Elevation 1994 KB 1983 GL
 Address 20 NE 20th Ave St John, KS
 Co. Rep / Geo Keith Reavis Rig Sterling #4
 Location: Sec. 27 Twp 26 Rge. 14 Co. Pratt State KS

Interval Tested 4260 - 4316 Zone Tested M.S.S.
 Anchor Length 56 Drill Pipe Run 4050 Mud Wt. 9.5
 Top Packer Depth 4255 Drill Collars Run 210 Vis 72
 Bottom Packer Depth 4260 Wt. Pipe Run N.A. WL 9.2
 Total Depth 4316 Chlorides 5000 ppm System LCM 3rd
 Blow Description IF: 10 min., BOB 1 min., Strong building blow, 102 inches
ISF: 60 min., no blow back
EF: 60 min., strong building blow, BOB 1540, GTS 30 min.
EST: 180 min., no blow back

Rec <u>30</u>	Feet of <u>gassy mud</u>	<u>5</u> %gas	%oil	%water <u>95</u>	%mud
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	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 121 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 Initial Hydrostatic 2117 ☒ Test conv. 1950 ☐ Ruined Shale Packer _____
 Initial Flow 35 to 38 ☒ Jars 300 ☒ Ruined Packer 1.0 reg 625
 Initial Shut-In 1419 ☐ Circ Sub _____ ☐ Hotel _____
 Final Flow 37 to 38 ☐ Hourly Standby _____ ☒ EM Tool Successful good
 Final Shut-In 1415 ☒ Mileage x 20 35 ☐ Accessibility _____
 Final Hydrostatic 2089 ☐ Sampler _____ ☒ Gas Sample 210 80
 T- On Location 0830 ☐ Straddle _____ ☐ Oversized Hole _____
 Initial Flow 10 T-Started 0900 ☐ Shale Packer _____ ☐ Sub Total 625 + 80
 Initial Shut-In 60 T-Open 1100 ☐ Extra Packer _____ ☐ Total 2990
 Final Flow 60 T-Pulled 1610 ☐ Extra Recorder _____ ☐ Tool Loaded _____ @ _____
 Final Shut-In 180 T-Out 1900 ☐ Day Standby _____ ☐ MP/DST Disc't _____

Comments _____

Approved By _____ Our Representative Chris Hagan

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70736

Well Name & No.	MCM Unit #1	Test No.	5	Date	5-7-24
Company	Thomas Corcoran, Inc.	Elevation	1994	KB	1983
Address	20 NE 20th Ave. St. John, KS				
Co. Rep / Geo	Keith Reavis	Rig	Sterling #4		
Location: Sec.	27	Twp	26	Rge.	14
Co.	Prairie	State	KS		

Interval Tested	4440-4500	Zone Tested	Simpson
Anchor Length	60'	Drill Pipe Run	4208
Top Packer Depth	4435	Drill Collars Run	210
Bottom Packer Depth	4440	Wt. Pipe Run	N.A.
Total Depth	4500	Chlorides	5000 ppm System
Blow Description	IF: 10 min., BOB 2 min., strong building blow, 300 inches IF: 45 min., blow back 30 sec, 3.5 inches FF: 15 min., BOB 30 sec, strong building blow, 178 inches FF: 30 min., no blow back		

Rec	2830	Feet of	water	%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		Feet of		%gas	%oil	%water	%mud
Rec		Feet of		%gas	%oil	%water	%mud

Rec Total	2830	BHT	127	Gravity		API RW	0.77 @ 80 °F	Chlorides	88,000 ppm
Initial Hydrostatic	2184	☒ Test	conv.	1950	☐ Ruined Shale Packer				
Initial Flow	829 to 1075	☒ Jars	300	☐ Ruined Packer					
Initial Shut-In	1380	☐ Circ Sub		☐ Hotel					
Final Flow	1133 to 1320	☐ Hourly Standby		☒ EM Tool Successful	good				
Final Shut-In	1381	☒ Mileage	270	35	☐ Accessibility				
Final Hydrostatic	2154	☐ Sampler		☐ Gas Sample					
T- On Location	1100	☐ Straddle		☐ Oversized Hole					
Initial Flow	10	T-Started	1130	☐ Shale Packer	☐ Sub Total	0			
Initial Shut-In	45	T-Open	1300	☐ Extra Packer	☐ Total	2285			
Final Flow	15	T-Pulled	1730 1440	☐ Extra Recorder	☒ Tool Loaded	5-7 @ 1800			
Final Shut-In	30	T-Out	1730	☐ Day Standby	☐ MP/DST Disc't				
Comments									

Approved By _____ Our Representative Chris Hagen

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HURRICANE SERVICES INC

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

Customer:
THOMAS GARNER INC
20 NE 20TH AVE
SAINT JOHN, KS 67576

Invoice Date: 4/29/2024
Invoice #: 0376076
Lease Name: M&M Unit
Well #: 1 (New)
County: Pratt, Ks
Job Number: WP5346
District: Pratt

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
H-325	475.000	22.500	10,687.50
Light Eq Mileage	15.000	2.000	30.00
Heavy Eq Mileage	30.000	4.000	120.00
Ton Mileage	335.000	1.500	502.50
Cement Blending & Mixing	475.000	1.400	665.00
Depth Charge 0'-500'	1.000	1,000.000	1,000.00
Cement Data Acquisition	1.000	250.000	250.00
Service Supervisor	1.000	275.000	275.00

Total 13,530.00

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% 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!

Hurricane Services, Inc.
250 N. Water St., Suite #200
Wichita, KS 67202

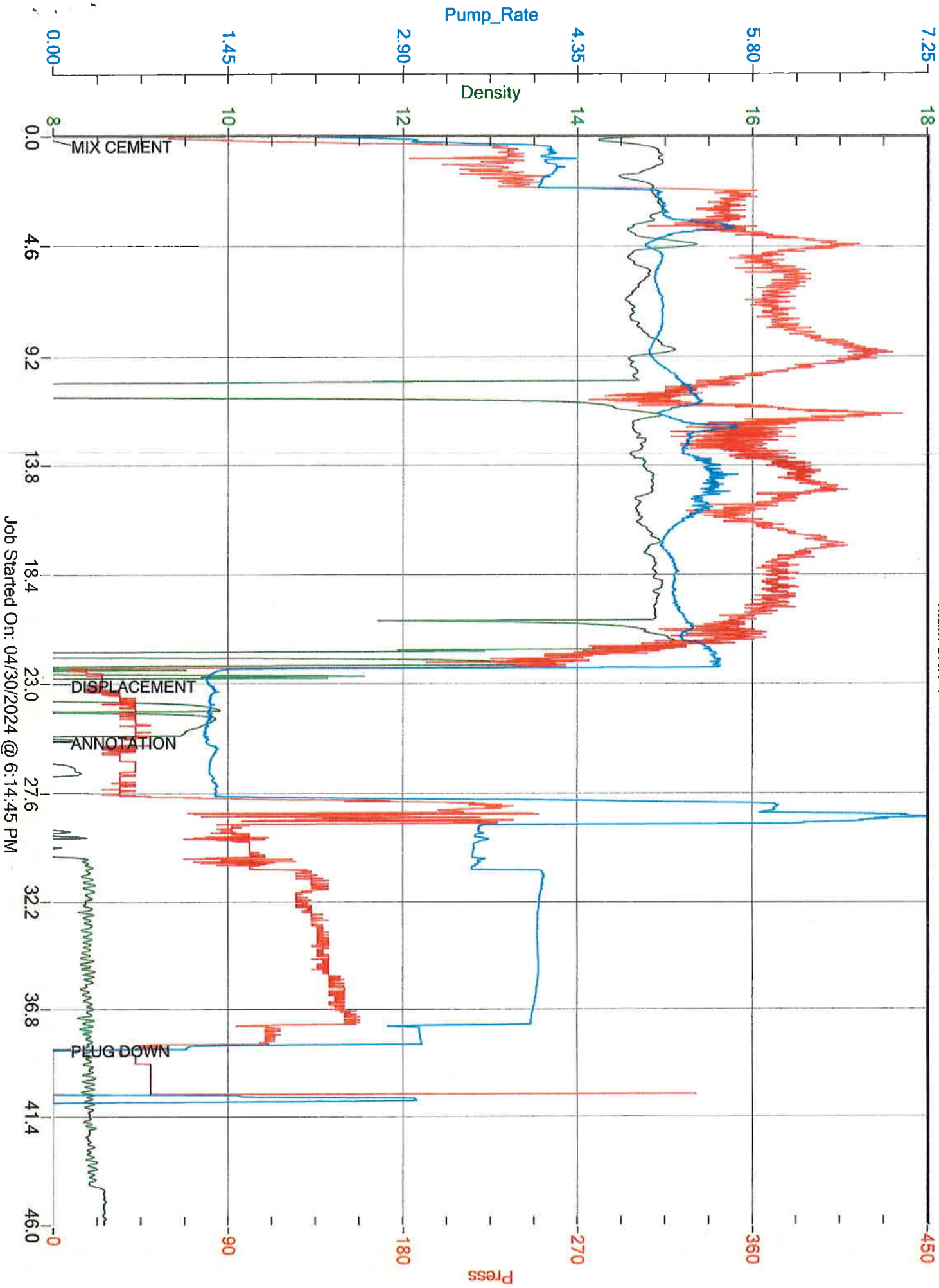
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TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/4 % per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X _____ **CUSTOMER AUTHORIZATION SIGNATURE**

ftv: 7-2020/11/30
mplv: 80-2020/11/20

THOMAS GARNER
M&M UNIT 1





HURRICANE SERVICES INC

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

Customer:
THOMAS GARNER INC
20 NE 20TH AVE
SAINT JOHN, KS 67576

Invoice Date: 5/1/2024
Invoice #: 0376177
Lease Name: M&M Unit
Well #: 1 (New)
County: Pratt, Ks
Job Number: WP5361
District: Pratt

Date/Description	HRS/QTY	Rate	Total
Intermediate	0.000	0.000	0.00
H-CON	225.000	25.000	5,625.00
Cement Class A	225.000	20.000	4,500.00
Guide Shoe Reg 8 5/8"	1.000	600.000	600.00
8 5/8" Alum Baffle plate SI	1.000	150.000	150.00
8 5/8" Top rubber plug	1.000	175.000	175.00
Light Eq Mileage	15.000	2.000	30.00
Heavy Eq Mileage	30.000	4.000	120.00
Ton Mileage	318.000	1.500	477.00
Cement Blending & Mixing	450.000	1.400	630.00
Depth Charge 1001'-2000'	1.000	1,500.000	1,500.00
Cement Plug Container	1.000	250.000	250.00
Liquid Defoamer	1.000	50.000	50.00
Service Supervisor	1.000	275.000	275.00
8 5/8" Cementing basket	2.000	500.000	1,000.00

Total 15,382.00

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% 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.

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WE APPRECIATE YOUR BUSINESS!



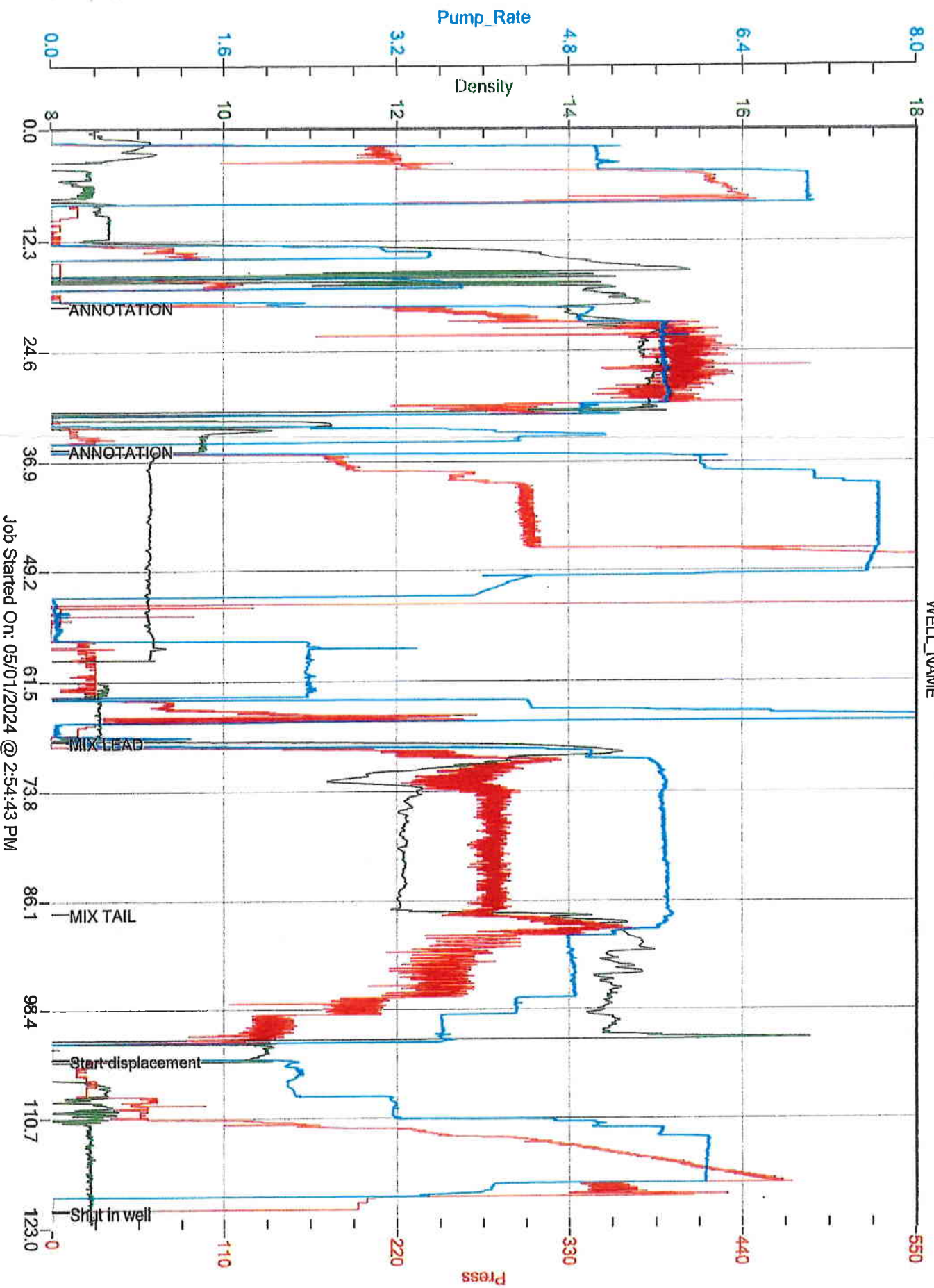
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ftv: 15-2021/01/25
mplv: 449-2024/05/10



CEMENT TREATMENT REPORT												
Customer:		THOMAS GARNER			Well:		M&M UNIT 1		Ticket:		WP5361	
City, State:		BYERS KS			County:		PRATT KS		Date:		5/1/2024	
Field Rep:		THOMAS GARNER			S.T.R.:		27-26S14W		Service:		SURFACE	
Downhole Information				Calculated Slurry - Lead				Calculated Slurry - Tail				
Hole Size: 12 1/4 in				Blend: H-CON				Blend: H-325				
Hole Depth: ft				Weight: 12.0 ppg				Weight: 14.8 ppg				
Casing Size: 8 5/8 in				Water / Sx: 14.5 gal / sx				Water / Sx: 6.4 gal / sx				
Casing Depth: 1023.23 ft				Yield: 2.47 ft³ / sx				Yield: 1.30 ft³ / sx				
Tubing / Liner: in				Annular Bbls / Ft.: bbs / ft.				Annular Bbls / Ft.: bbs / ft.				
Depth: ft				Depth: ft				Depth: ft				
Tool / Packers:				Annular Volume: 0.0 bbls				Annular Volume: 0 bbls				
Tool Depth: ft				Excess:				Excess:				
Displacement: 62.4 bbls				Total Slurry: 90.9 bbls				Total Slurry: 55.3 bbls				
				Total Sacks: 225 sx				Total Sacks: 225 sx				
TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS							
8:00 PM			-	-	ON LOCATION							
10:35 PM			-	-	RUN 8 5/8 23# CASING WITH GUIDE SHOE, BAFFLE IN 1ST COLLAR BASKETS ON							
23:52			-	-	CASING ON BOTTOM							
11:58 PM			-	-	HOOK TO CASING, BREAK CIRCULATION WITH RIG							
12:08 AM	6.0	230.0	99.9	99.8	MIX 225 SKS H-CON							
12:25 AM	5.7	280.0	55.3	155.2	MIX 225 SKS H-325							
12:38 AM				155.2	DROP PLUG							
12:41 AM	6.0	300.0		155.2	START DISPLACEMENT							
12:58 AM		200.0	63.4	218.6	PLUG DID NOT LAND, WENT 1 BBL OVER AND STILL DID NOT LAND. MR. GARNER SAID TO STOP THERE							
					SHUT IN WELL							
				-	CEMENT TO SURFACE							
				-								
				-								
				-								
				-								
				-								
				-								
				-								
				-								
				-								
				-								
				-								
				-								
				-								
				-	JOB COMPLETE, THANK YOU!							
				-	MIKE MATTAL							
				-	AUSTIN & KENNY							
Comenter:		CREW		UNIT		SUMMARY						
Pump Operator:		MATTAL		955		Average Rate		Average Pressure		Total Fluid		
Bulk #1:		CLIFTON		539/521		5.6 bpm		263 psi		219 bbls		
Bulk #2:		JULIAN		532								

CUSTOMER
WELL_NAME





HURRICANE SERVICES INC

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

Customer:

THOMAS GARNER INC
20 NE 20TH AVE
SAINT JOHN, KS 67576

Invoice Date: 5/8/2024
Invoice #: 0376323
Lease Name: M&M Unit
Well #: 1 (New)
County: Pratt, Ks
Job Number: WP5385
District: Pratt

Date/Description	HRS/QTY	Rate	Total
Longstring	0.000	0.000	0.00
H-H Long	200.000	45.000	9,000.00
H-Plug	50.000	16.000	800.00
Gas Block	564.000	4.500	2,538.00
5 1/2" Floatshoe-Flapper AFU	1.000	375.000	375.00
5 1/2" LD Plug & Baffle	1.000	350.000	350.00
Cement baskets 5 1/2"	2.000	300.000	600.00
5 1/2" Turbolizers	12.000	125.000	1,500.00
Mud flush	1,000.000	1.000	1,000.00
Light Eq Mileage	15.000	2.000	30.00
Heavy Eq Mileage	30.000	4.000	120.00
Ton Mileage Minimum	1.000	300.000	300.00
Cement Blending & Mixing	250.000	1.400	350.00
Depth Charge 4001'-5000'	1.000	2,500.000	2,500.00
Cement Data Acquisition	1.000	250.000	250.00
Casing Swivel	1.000	300.000	300.00
Cement Plug Container	1.000	250.000	250.00
Service Supervisor	1.000	275.000	275.00

Total

20,538.00

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% 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.

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CEMENT TREATMENT REPORT

Customer:	THOMAS GARNER	Well:	M&M UNIT 1	Ticket:	WP5385
City, State:	BYERS KS	County:	PRATT KS	Date:	5/8/2024
Field Rep:	KYLE ROBY	S-T-R:	27-26S-14W	Service:	LONGSTRING

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	7 7/8 in	Blend:	HH-LONG	Blend:	H-PLUG
Hole Depth:	4500 ft	Weight:	15.0 ppg	Weight:	13.78 ppg
Casing Size:	5 1/2 in	Water / Sx:	5.8 gal / sx	Water / Sx:	6.9 gal / sx
Casing Depth:	4493.12 ft	Yield:	1.43 ft ³ / sx	Yield:	1.43 ft ³ / sx
Tubing / Liner:	In	Annular Bbls / Ft.:	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
Depth:	ft	Depth:	ft	Depth:	ft
Tool / Packer:		Annular Volume:	0.0 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	105.9 bbls	Total Slurry:	50.9 bbls	Total Slurry:	12.0 bbls
		Total Sacks:	200 sx	Total Sacks:	50 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
7:05 AM			-	-	ON LOCATION
8:00 AM			-	-	RUN 5 1/2 15.6# CASING WITH AUTOFILL FLOAT SHOE, BAFFLE IN COLLAR 1 BASKETS TOP OF 1&15
			-	-	TURBOS ON 1,3,,4,5,7,9,10,11,12,13,14,16 SHOE JOINT 42.62'
9:50 AM			-	-	CASING ON BOTTOM
10:10 AM			-	-	HOOK TO CASING, BREAK CIRCULATION WITH RIG
11:17 AM	2.0	25.0	24.0	24.0	PUMP 1000 GALLONS MUD FLUSH
11:22 AM	2.0	25.0	5.0	29.0	PUMP 5 BBL WATER
11:25 AM	2.0	25.0	7.0	36.0	MIX 30 SKS H-PLUG FOR RAT HOLE
11:30 AM	2.0	25.0	5.0	41.0	MIX 20 SKS H-PLUG FOR MOUSEHOLE
11:35 AM	4.9	300.0	50.9	91.9	MIX 200 SKS HH-LONG
11:48 AM	4.0	25.0	7.0	98.9	WASH PUMP AND LINE, DROP PLUG
11:53 AM	8.0	360.0		98.9	START DISPLACEMENT AND ROTATION
12:03 PM	7.9	550.0	74.0	172.9	LIFT PRESSURE
12:04 PM	7.9	700.0	80.0	252.9	STOP ROTATION
12:06 PM	4.0	580.0	95.0	347.9	SLOW RATE
12:09 PM		1,500.0	105.9	453.8	PLUG DOWN, RELEASED AND HELD
					CIRCULATION THROUGH JOB
				-	
				-	
				-	
				-	
				-	
				-	
				-	
				-	JOB COMPLETE, THANK YOU!
				-	MIKE MATTAL
				-	AUSTIN & KENNY

CREW		UNIT	SUMMARY		
Cementer:	MATTAL	955	Average Rate	Average Pressure	Total Fluid
Pump Operator:	CLIFTON	529/521	4.5 bpm	374 psi	454 bbls
Bulk #1:	JULIAN	181/534			
Bulk #2:					

T GARNER
M&M UNIT 1

