

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

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

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

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

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

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Thoroughbred Associates L.L.C.
Well Name	HAGGARD-DAVIDSON 27-1
Doc ID	1617903

All Electric Logs Run

Dual
Neutron
Micro
Sonic



DRILL STEM TEST REPORT

Prepared For: **Thoroughbred Associates LLC**

8100 E 22nd St Ste 600
Wichita, KS 67226

ATTN: Bobby Patton

27-26s-40w

Haggard Davidson #27-1

Start Date: 2021.12.02 @ 15:50:00

End Date: 2021.12.02 @ 23:22:02

Job Ticket #: 67829 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2021.12.09 @ 15:42:00



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Thoroughbred Associates LLC

Haggard Davidson #27-1

8100 E 22nd St Ste 600
Wichita, KS 67226

27-26s-40w

Job Ticket: 67829

DST#: 1

ATTN: Bobby Patton

Test Start: 2021.12.02 @ 15:50:00

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:21:47

Time Test Ended: 23:22:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 5039.00 ft (KB) To 5199.00 ft (KB) (TVD)

Reference Elevations: 3360.00 ft (KB)

Total Depth: 5199.00 ft (KB) (TVD)

3349.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6751 Outside

Press@RunDepth: 834.51 psig @ 5041.00 ft (KB)

Capacity: psig

Start Date: 2021.12.02

End Date: 2021.12.02

Last Calib.: 2021.12.02

Start Time: 15:50:01

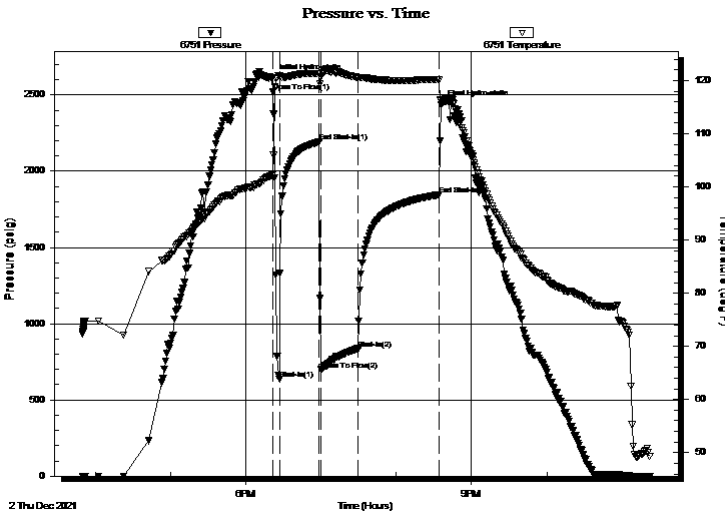
End Time: 23:22:02

Time On Btm: 2021.12.02 @ 18:21:17

Time Off Btm: 2021.12.02 @ 20:36:02

TEST COMMENT: IF: 5 min., BOB 10 sec., strong building blow , 90 inches
IS: 30 min., No blow back
FF: 30 min., BOB 1 min., strong building blow , 61 inches
FS: 60 min., No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2610.46	102.22	Initial Hydro-static
1	2519.19	102.35	Open To Flow (1)
6	637.70	120.86	Shut-In(1)
38	2191.90	121.21	End Shut-In(1)
39	698.06	120.52	Open To Flow (2)
69	834.51	120.56	Shut-In(2)
133	1846.16	120.09	End Shut-In(2)
135	2437.65	116.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1364.00	mud 100%M	19.13
124.00	w atery mud 20%W,80%M	1.74
124.00	w atery mud 40%W,60%M	1.74

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Thoroughbred Associates LLC

Haggard Davidson #27-1

8100 E 22nd St Ste 600
Wichita, KS 67226

27-26s-40w

Job Ticket: 67829

DST#: 1

ATTN: Bobby Patton

Test Start: 2021.12.02 @ 15:50:00

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:21:47

Time Test Ended: 23:22:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 5039.00 ft (KB) To 5199.00 ft (KB) (TVD)

Reference Elevations: 3360.00 ft (KB)

Total Depth: 5199.00 ft (KB) (TVD)

3349.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8672

Press@RunDepth: psig @ ft (KB)

Capacity: psig

Start Date: 2021.12.02

End Date: 2021.12.02

Last Calib.: 1899.12.30

Start Time: 15:50:01

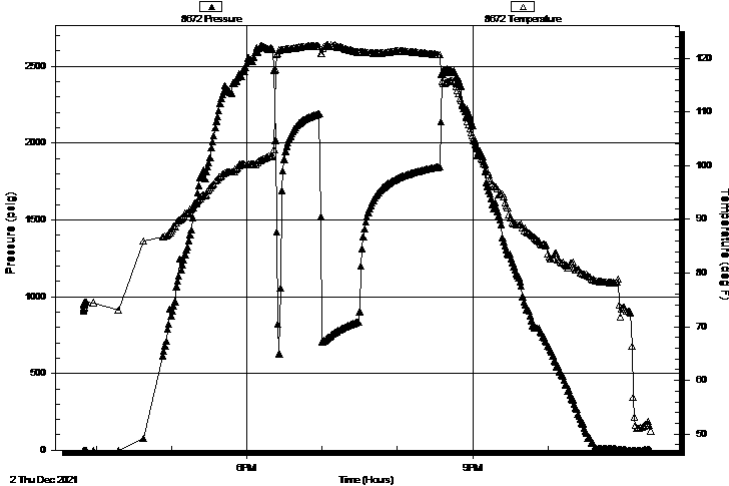
End Time: 23:22:02

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 5 min., BOB 10 sec., strong building blow , 90 inches
IS: 30 min., No blow back
FF: 30 min., BOB 1 min., strong building blow , 61 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)
1364.00	mud 100%M	19.13
124.00	w atery mud 20%W,80%M	1.74
124.00	w atery mud 40%W,60%M	1.74

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Thoroughbred Associates LLC

Haggard Davidson #27-1

8100 E 22nd St Ste 600
Wichita, KS 67226

27-26s-40w

Job Ticket: 67829

DST#: 1

ATTN: Bobby Patton

Test Start: 2021.12.02 @ 15:50:00

Tool Information

Drill Pipe:	Length: 5041.00 ft	Diameter: 3.80 inches	Volume: 70.71 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 70.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	5039.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	160.00 ft			
Tool Length:	189.00 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			5015.00	
Hydraulic tool	5.00			5020.00	
EM Isolator	3.00			5023.00	
Jars	5.00			5028.00	
Safety Joint	2.00			5030.00	
Packer	5.00			5035.00	29.00 Bottom Of Top Packer
Packer	4.00			5039.00	
Stubb	1.00			5040.00	
Perforations	1.00			5041.00	
Recorder	0.00	8672	Inside	5041.00	
Recorder	0.00	6751	Outside	5041.00	
Perforations	29.00			5070.00	
Change Over Sub	1.00			5071.00	
Drill Pipe	124.00			5195.00	
Change Over Sub	1.00			5196.00	
Bullnose	3.00			5199.00	160.00 Bottom Packers & Anchor
Total Tool Length:	189.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Thoroughbred Associates LLC

Haggard Davidson #27-1

8100 E 22nd St Ste 600
Wichita, KS 67226

27-26s-40w

Job Ticket: 67829

DST#: 1

ATTN: Bobby Patton

Test Start: 2021.12.02 @ 15:50:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 7.20 in³
Resistivity: ohm.m
Salinity: 3000.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 27000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1364.00	mud 100%M	19.133
124.00	w atery mud 20%W,80%M	1.739
124.00	w atery mud 40%W,60%M	1.739

Total Length: 1612.00 ft Total Volume: 22.611 bbl

Num Fluid Samples: 0

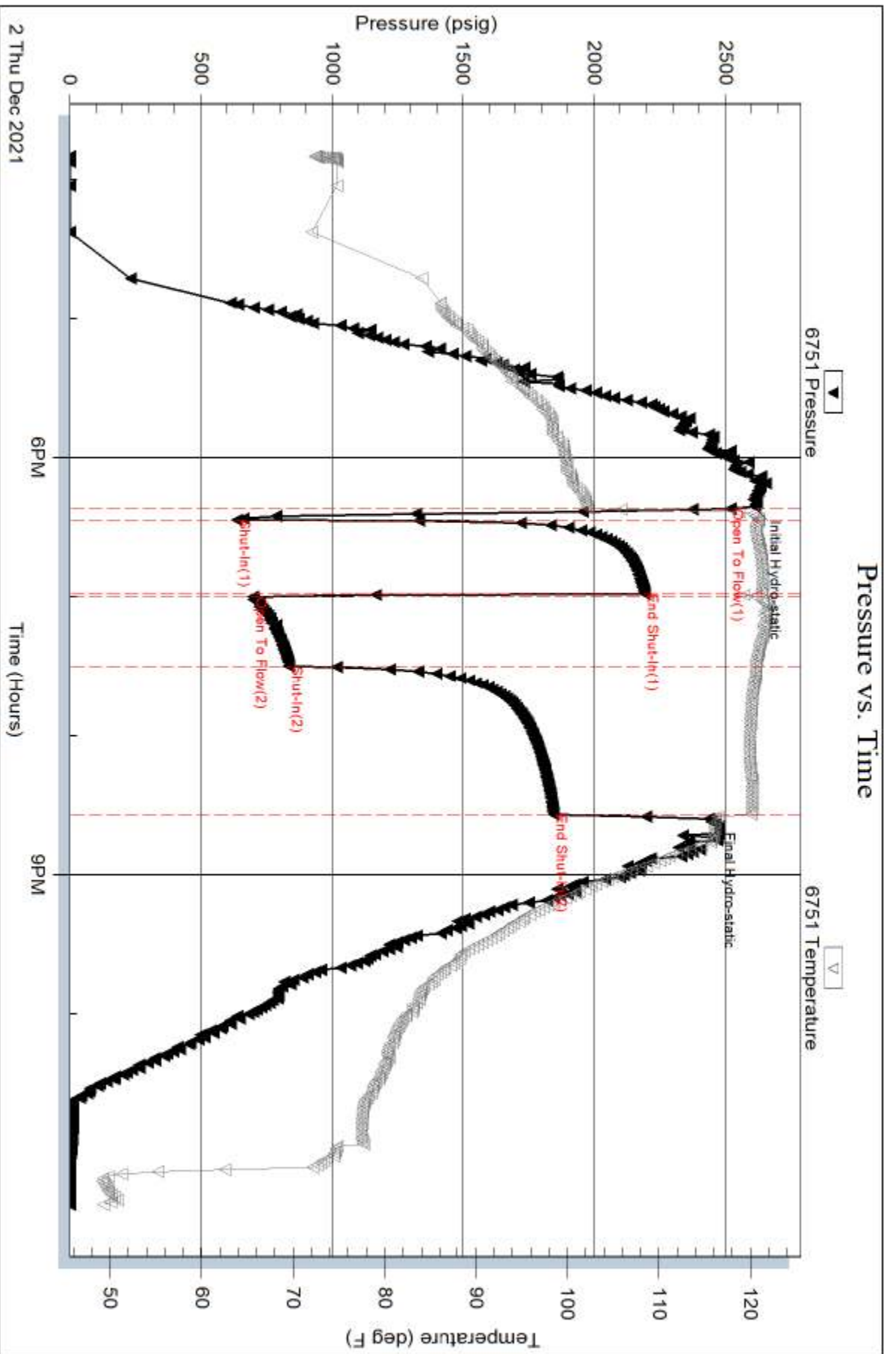
Num Gas Bombs: 0

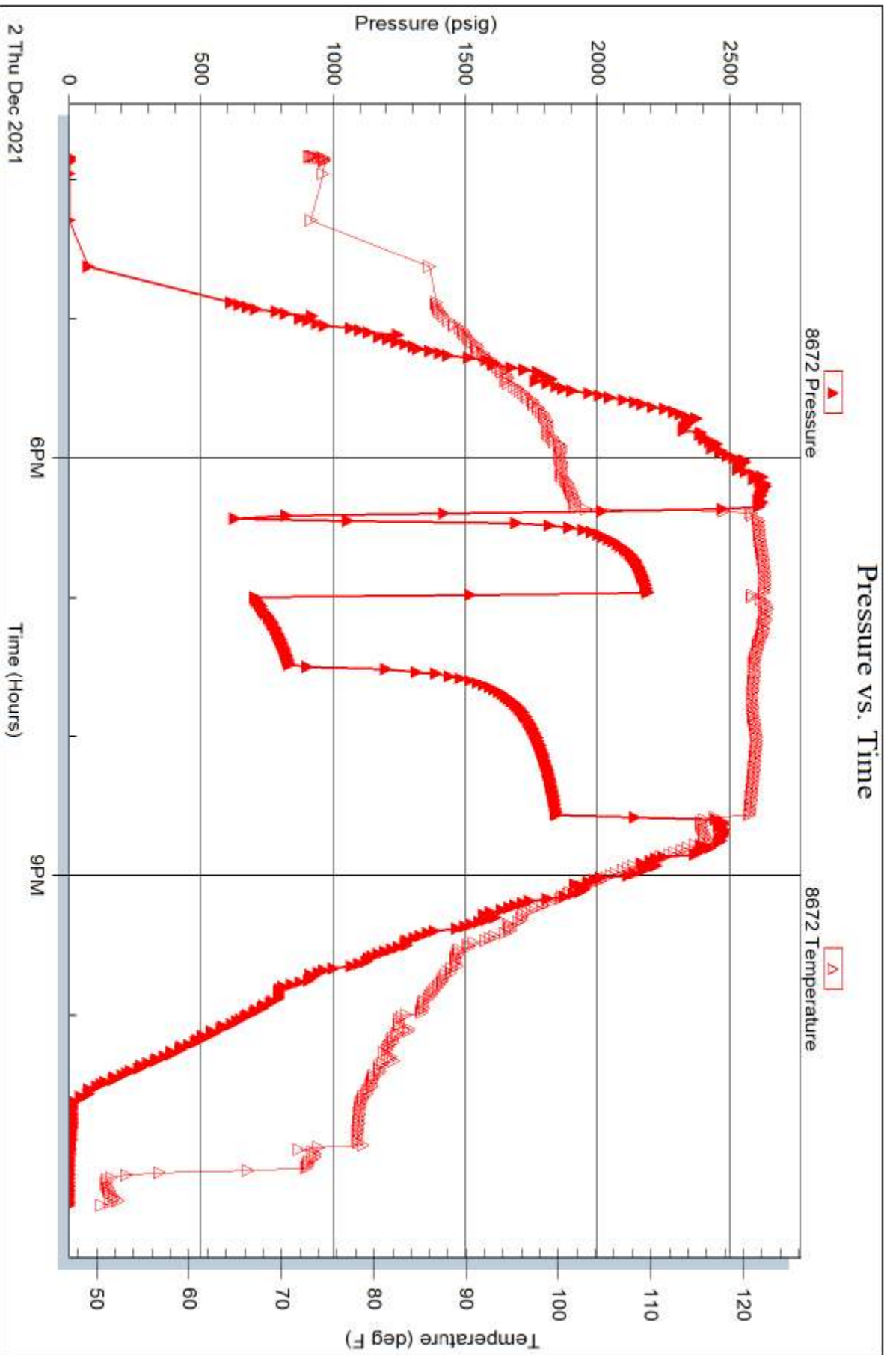
Serial #:

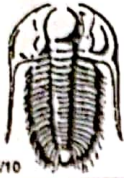
Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.324@54F=27000ppm







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **67829**

Well Name & No. Maggard Davidson 27-1 Test No. 1 Date 12-2-21
 Company Thoroughbred Associates LLC Elevation 3360 KB 3349 GL
 Address 8100 E 22ND ST STE 600 Wichita, KS 67226
 Co. Rep / Geo. Bobby Patton Rig Duke #1
 Location: Sec. 27 Twp 26 Rge. 40 Co. Hamilton State KS

Interval Tested 5039-5199 Zone Tested Morrow
 Anchor Length 160 Drill Pipe Run 5041 Mud Wt. 9.4
 Top Packer Depth 5034 Drill Collars Run Ø Vis 60
 Bottom Packer Depth 5039 Wt. Pipe Run N.A. WL 7.2
 Total Depth 5199 Chlorides 3000 ppm System LCM ~~3000~~ 12⁺

Blow Description IF: 5 min, BOB 10 sec, strong building blow, 90 inches
IS: 30 min, No blow back
FP: 30 min BOB 1 min, strong building blow, 61 inches
FST: 60 min, No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1364</u>	<u>mud</u>				<u>100%</u>
<u>124</u>	<u>watery mud</u>		<u>20</u>	<u>80</u>	<u>0%</u>
<u>124</u>	<u>watery mud</u>		<u>40</u>	<u>60</u>	<u>0%</u>
<u> </u>	<u> </u>				<u> </u>
<u> </u>	<u> </u>				<u> </u>

Rec Total 1612 BHT 120 Gravity API RW .324 @ 54 F Chlorides 27,000 ppm

(A) Initial Hydrostatic 2610 Test conv. 1550 T-On Location 1400
 (B) First Initial Flow 2519 Jars 250 T-Started 1630
 (C) First Final Flow 638 Safety Joint 75 T-Open 1820
 (D) Initial Shut-In 2192 Circ Sub T-Pulled 2025
 (E) Second Initial Flow 698 Hourly Standby T-Out 2330
 (F) Second Final Flow 835 Mileage 180 (South City) ²²⁵ Comments bat on @ 1550
 (G) Final Shut-In 1846 Sampler EM @ 1610
 (H) Final Hydrostatic 2438 Straddle EM Tool 350
 Shale Packer X 1.0 ²⁵⁰ Ruined Shale Packer
 Extra Packer Ruined Packer X 1.0 shale
 Extra Recorder Extra Copies 365
 Day Standby Sub Total 350+365
 Accessibility Total 3065
 Sub Total 2350 MP/DST Disc't

Approved By Our Representative Chris Hagan
 Triobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Andrew White

Petroleum Geologist

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

Well Name: Haggard-Davidson #27-1
API: 15-075-20912
Location: 27-26S-40W
License Number:
Spud Date: 11-27-21
Surface Coordinates: 592' FSL, 405' FWL
Region: Hamilton County, KS
Drilling Completed: 12-4-21

Bottom Hole
Coordinates:
Ground Elevation (ft): 3347
Logged Interval (ft): 4200 To: 5545
Formation: Mississippian
Type of Drilling Fluid: Chemical
K.B. Elevation (ft): 3359
Total Depth (ft): 5545

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

OPERATOR

Company: Thoroughbred Associates LLC
Address: 8100 E 22nd St, Bldg 600, Ste F
Wichita, KS, 67226

GEOLOGIST

Name: Andrew White
Company: White Exploration, Inc.
Address: 1635 N. Waterfront Pkwy, Ste. 100
Wichita, KS, 67206

Remarks

Due to negative shows and DST results, the decision was made to plug the Haggard-Davidson #27-1

General Info

Drilling Contractor: Duke Drilling Rig #1

Logs: ELI Wireline

Drilling Mud: Mudco

DST: Trilobite

Gas Detector: None

Surveys: 819'-3/4, 1775'-1, 2520'-1, 3558'-3/4, 5199'-1

Daily Status

11-27-21: MIRU, drill 90' Conductor, cement w/ 115 sacks H325, 3% cc, 2% gel, 1/4# celflake

11-28-21: Drilling ahead @ 1220' to 1775', Ran 41 jts 8-5/8" 24# surface casing set @ 1773'. Cemented w/ 550 sacks H-Lite, 3% cc, 1/4# celflake, followed by 150 sacks Class A, 2% cc, 3% cc, 1/4# celflake

11-29-21: WOC @ 1775'

11-30-21: Drilling ahead @ 3047'

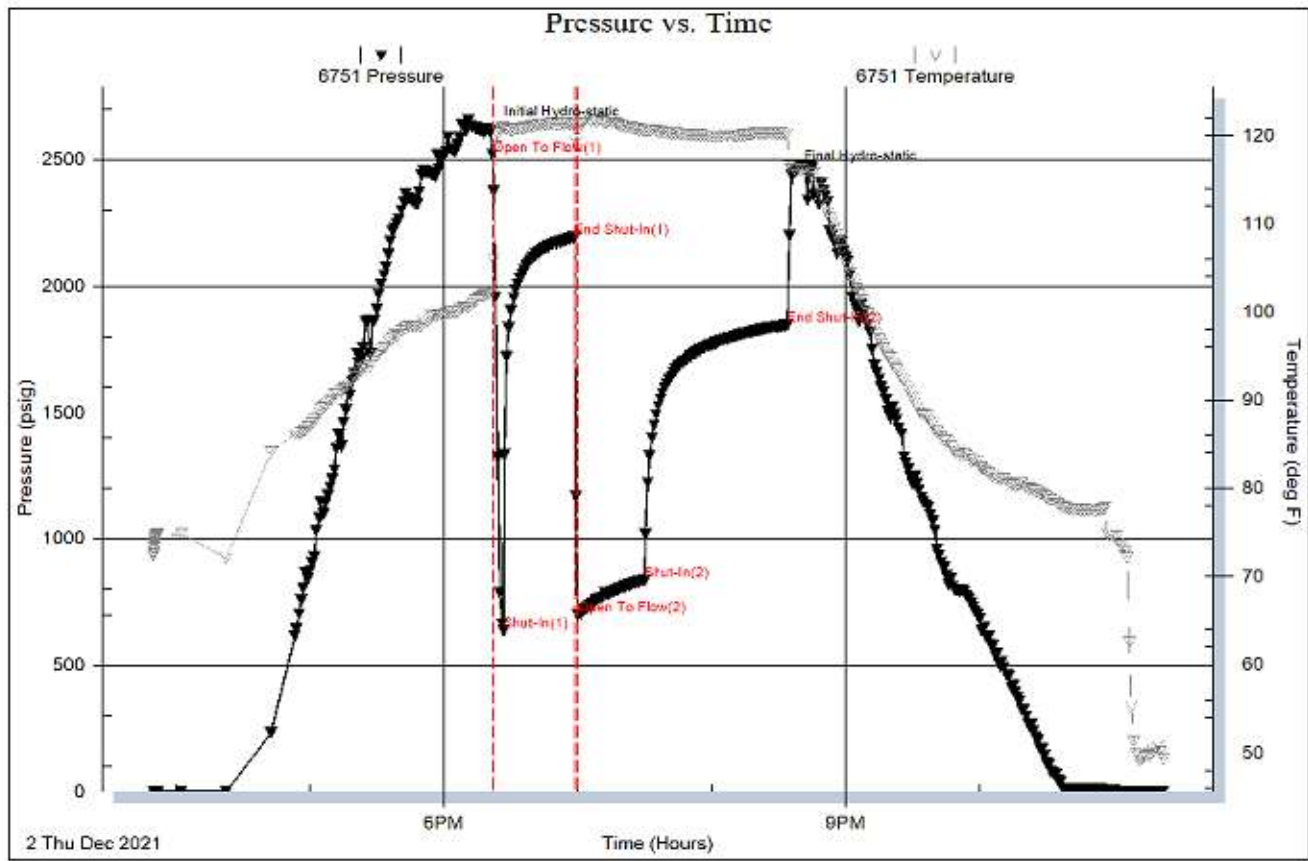
12-1-21: Drilling ahead @ 4210'

12-2-21: CFS @5199

12-3-21: Drilling ahead @ 5330'

12-4-21: @ RTD 5545' Plug

	Thoroughbred			Mull Drilling		Abercrombie	
	Haggard-Davidson 27-1			Direwolf #1-28		Lake Unit A-1-35	
	27-26S-40W			28-26S-40W		35-26S-40W	
	592' FSL, 405' FWL			1996' FSL, 656' FEL		1600' FNL, 2040' FEL	
	KB:3359			KB: 3369		KB: 3308	
	Sample	Log	Datum	Relationship		Relationship	
Base Anhy.	1878	1873	1486	5		22	
Heebner	0	3786	-427	0		23	
Lansing	3847	3847	-488	5		13	
Marmaton	4474	4482	-1123	-1		1	
Cherokee	4642	4653	-1294	1		13	
Morrow	5051	5047	-1688	14		33	
LMM	5291	5308	-1949	-7		-3	
Chester	5364	5408	-2049	-34		127	
Miss	5416	5414	-2055	-4		147	



ROCK TYPES

LITHOLOGY

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol
- Gyp
- Igne
- Lmst
- Meta

MINERAL

- Mrlst
- Salt
- Shale
- Shcol
- Shgy
- Sltst
- Ss
- Till
- Anhy
- Arggrn
- Arg

STRINGER

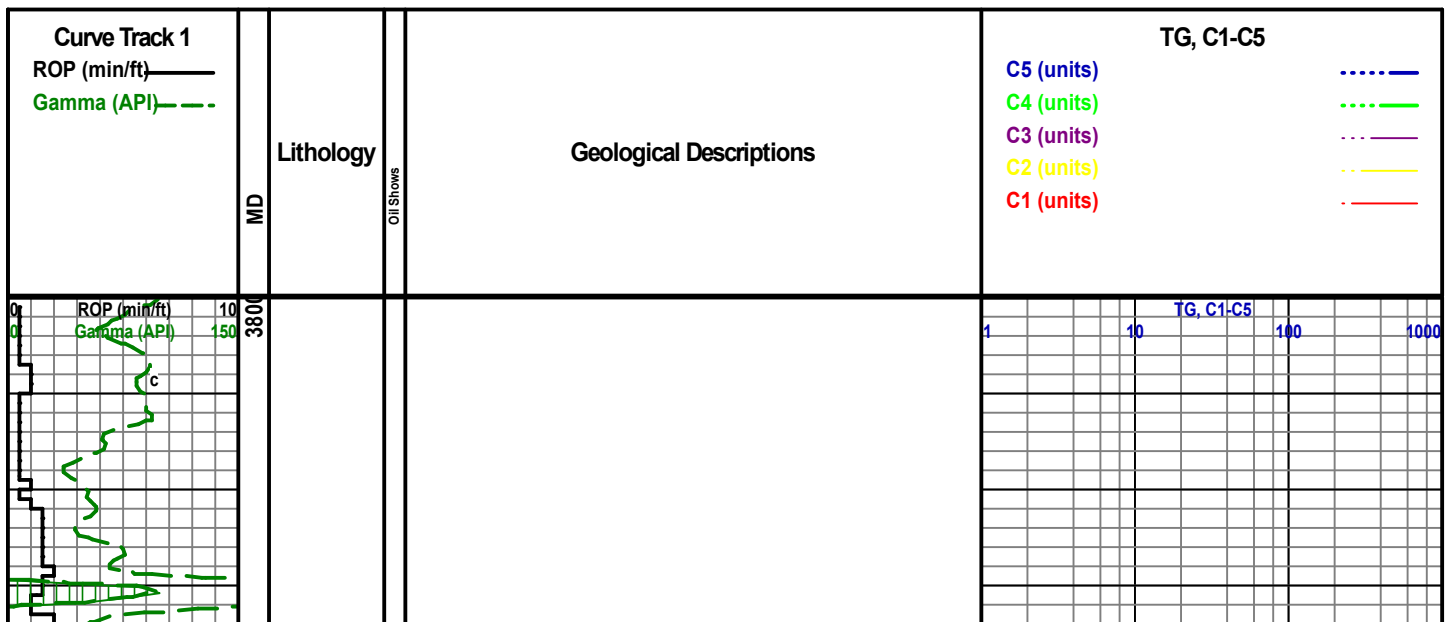
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp

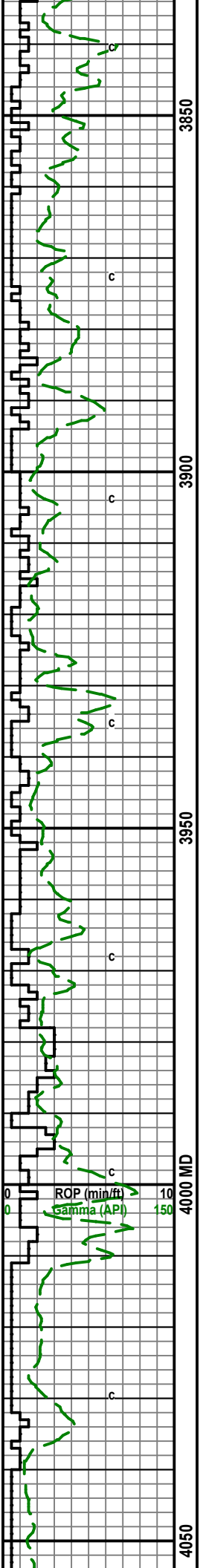
STRINGER

- Hvymn
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

STRINGER

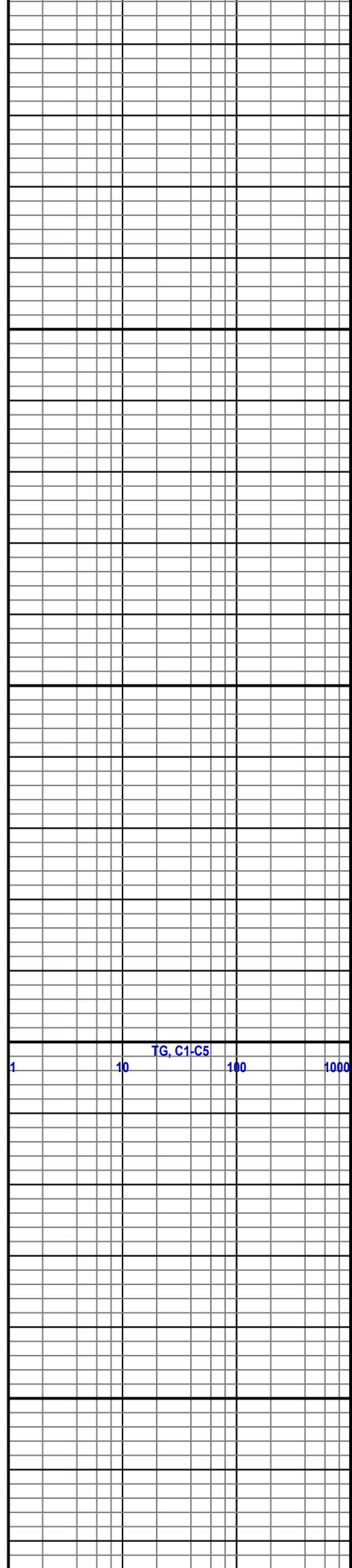
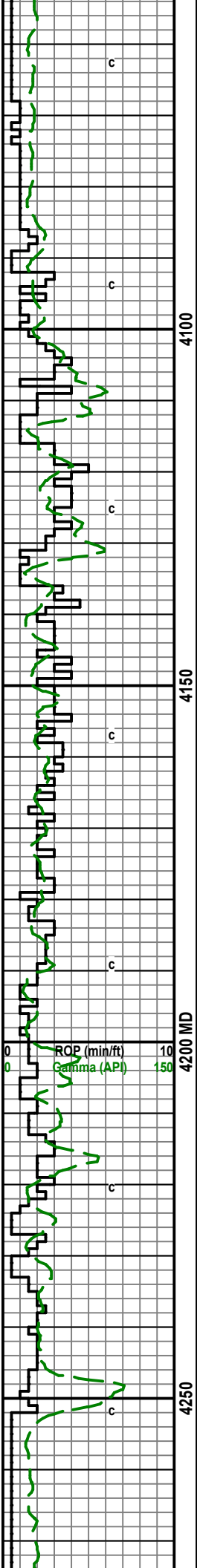
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- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg





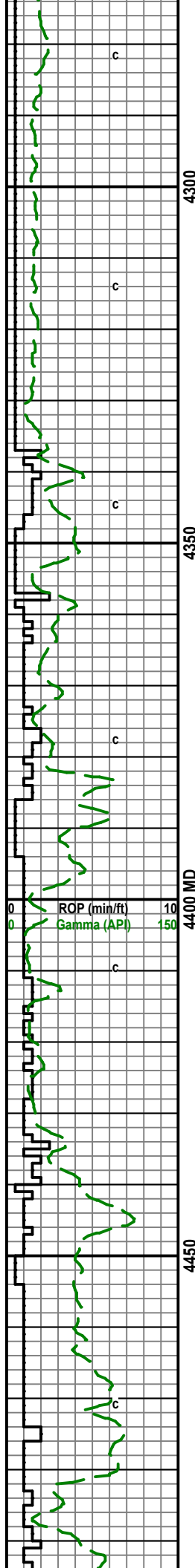
Lansing: 3847 (-488)

1 10 TG, C1-C5 100 1000



TG, C1-C5

1 10 100 1000



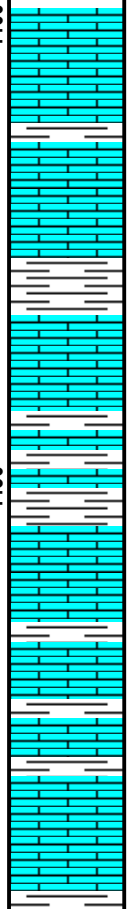
4300

4350

4400 MD

4450

ROP (min/ft) 10
Gamma (API) 150



LS: gry-crm, mcrxn, some fxdn, fos, sli chalk, some crm-tan, ool, pr-no vis por Sh: drk gry-gry, sli blk

LS: gry-crm, some tan, mcrxn, some fxdn, few ool, sli fos, sli chalk, some Sh: AA

LS: crm-tan/brn, some gry, mcrxn, fos, sli chalk, some Sh: AA

LS: gry-crm-tan, mcrxn, some fxdn, sli fos, sli chalk, Sh: gry-drk gry

LS: crm, sli gry, mcrxn, sli fos, sli chalk, Sh: gry-lt gry

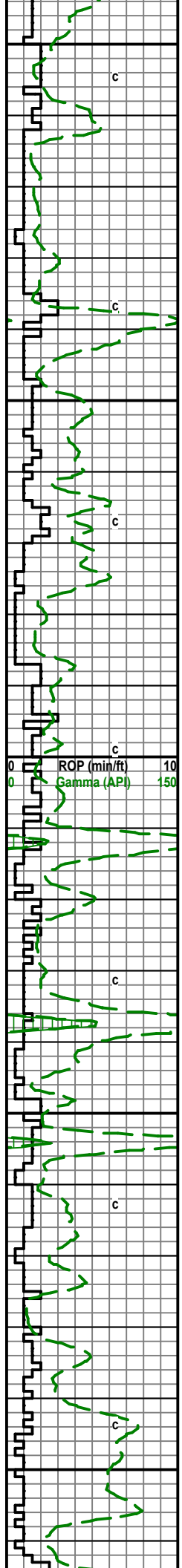
Mudco mud chk
Wt: 9.1 Vis: 47
Fil: 7.2 pH: 11.0
LCM: 3#

TG, C1-C5

1 10 100 1000

4220: Wet Samples Start

Marmaton: 4482 (-1123)



4500
4550
4600 MD
4650
4700



LS: AA Sh: lt gry, silty, some gry

LS: gry-crm, fxdn, ool, no por, some Sh:AA

LS: gry-crm, sli tan, mcr-fxdn, ool

LS: gry-crm, mcrxdn, fos, sli chalk, Sh: gry-drk gry

Sh: gry-drk gry, some blk, some lt gry silt, LS: crm-gry, mcrxdn, sli fxdn, fos, sli chalk

LS: gry, sli tan-crm, mcrxdn, fos, sli chalk, some Sh: gry-lt gry

LS: crm-gry, mcrxdn, fos, sli chalk, some Sh: gry-drk gry

LS: gry, sli crm, mcrxdn, sli fos, sli chalk, Sh: drk gry-gry, sli blk

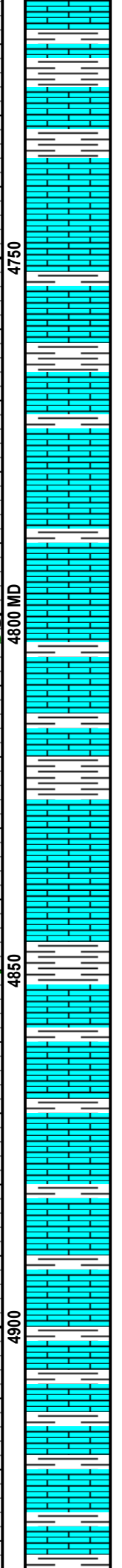
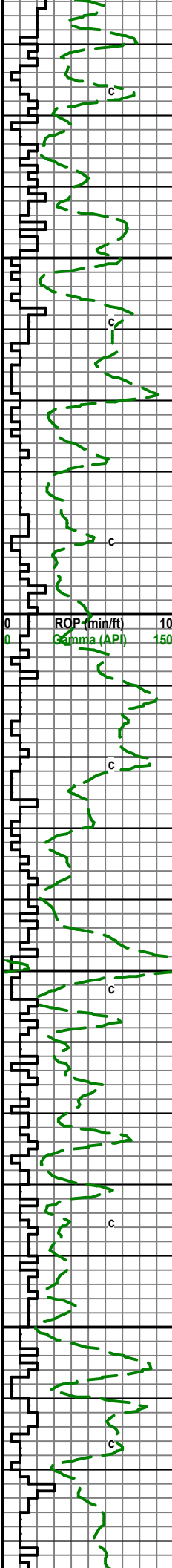
LS: crm-gry, mcrxdn, sli fos, chalk, some Sh: gry-drk gry

Sh: gry, sli drk-lt gry, some sli silt, some LS: gry, mcrxdn

LS: crm-gry, mcrxdn, fos, sli chalk, Sh: gry

TG, C1-C5
1 10 100 1000

Cherokee: 4653 (-1294)



Sh: gry, sli drk gry, LS: gry, sli crm, mcrxn, sli fos

LS: gry-crm, mcrxn, sli fxdn, fos, Sh: gry-drk gry

LS: crm-gry, mxln-fxdn, sli fos, some crm-tan, mcrxn, dense, Sh: gry-drk gry

LS: gry-crm, mcrxn, sli fos, some fxdn, Sh: gry-drk gry

LS: gry, sli crm, mcrxn

LS: crm-gry, mcrxn, some Sh: gry-drk gry

LS: AA, Sh:AA

LS: crm, sli tan, sli gry, mcrxn, sli fos, sli chalk, Sh: gry-drk gry, sli blk

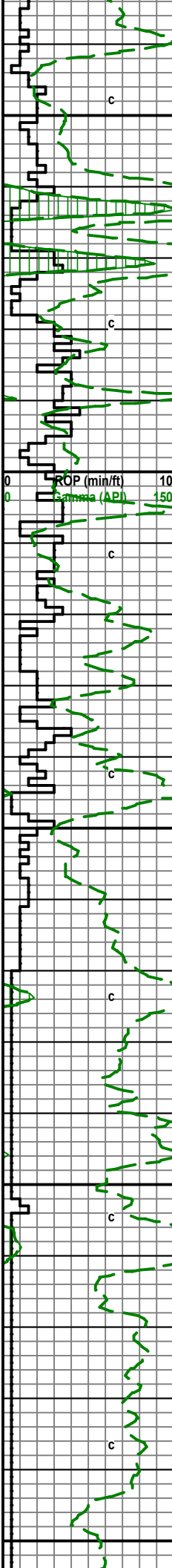
LS: crm, sli gry, mcrxn, Sh: drk gry-gry

LS: crm-gry, sli tan, mcrxn, sli fos,

LS: crm-gry, mcrxn, sli fos, Sh: gry

ROP (min/ft) 10
Gamma (API) 150

TG, C1-C5
1 10 100 1000



4950
5000 MD
5050
5100
5150

ROP (min/ft)
Gamma (API)

0 10 150

1 10 100 1000

TG, C1-C5

AA

Sh: gry-drk gry-bkck, some lt gry, some LS: gry-crm, mcrxn, chalky

Sh: AA, LS: crm, sli gry, mcrxn, some f-mxn, sli fos, chalky

LS: gry-crm, sli tan, mcrxn, sli fos, sli chalk, Sh: gry-drk gry

LS: crm-tan, sli gry, mcrxn, some f-mxn, sli fos, sli chalk, Sh: gry-drk gry

Sh: gry-drk gry, some lt gry, LS: gry-crm, mcrxn, sli fos

Sh: AA LS: crm, sli gry, mcrxn, some f-dn, sli fos

Sh: gry-drk gry, some LS: crm, sandy, some SS: opaque-gry, vf-grm, silty, round-sub round, some calc, pr-no vis por, vrrpos stain, NSO, pos dead oil, NSG, No odor, No fluor

Sh: gry-drk gry, some LS: crm, sandy, mcrxn,

Sh: AA

sample lots of chalk, some Sh: gry-lt gry silt, some SS: vf-grm, opaque, sub ang, calc, no show

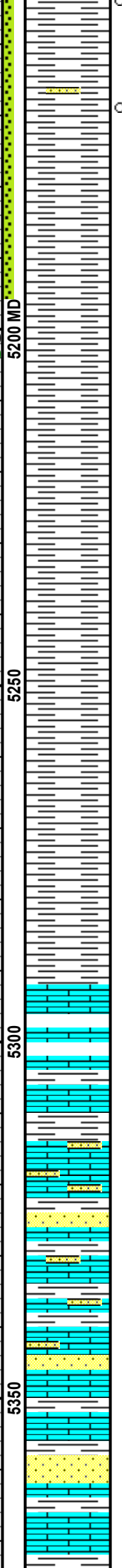
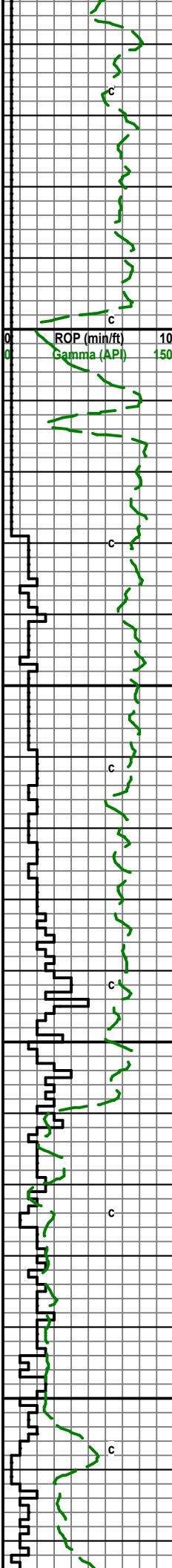
Sh: gry, some SS: opaque, sli gry, calc, f-vf-grm, some mgrm, sub ang, well sort, NSO, NSG pr-no vis por, no Fluor

AA

Morrow: 5047 (-1688)

-CFS 60"

DST #1 5039-5199
5-30-30-60
IF: BOB in 10 secs, build to 90"
FF: BOB, build to 60"
Rec: 1364' Mud, 124' WM (20%W, 80%M), 124' WM (40%W, 60%M)
IFP: 2519-638 ISIP: 2192
FFP: 698-835 FSIP: 1846



Sh: gry-drk gry, lt gry silt, some SS: opaque, f-vgrn, sub ang, well sort, no stain, no odor, no flour, pos vrrso

Sh: gry, some drk,

Sh: gry-drk gry

Sh: AA

Sh: AA some LS: crm-tan, sli sandy, fldn

Sh: gry-drk gry, some lt gry silt, few pieces SS: opaque-clear, few gry, fgrn, some vgrn, well sort, sub ang, no show

Sh: AA, with some SS: opaque, fgrn, sub ang, well sort, no show, some LS: crm-tan, mcrxln, sandy in part

Sh: AA, LS: gry, some tan-crm, mcrxln, some sandy, SS: AA

Sh: AA SS: opaque, m-fgrn, sub ang, well sort, interbed w/ shale, some LS: crm-gry, mcrxln,

Strap 1.34 short

CFS 60"

Mudco mud chk

TG, C1-C5

Wt: 9.4 Vis: 60

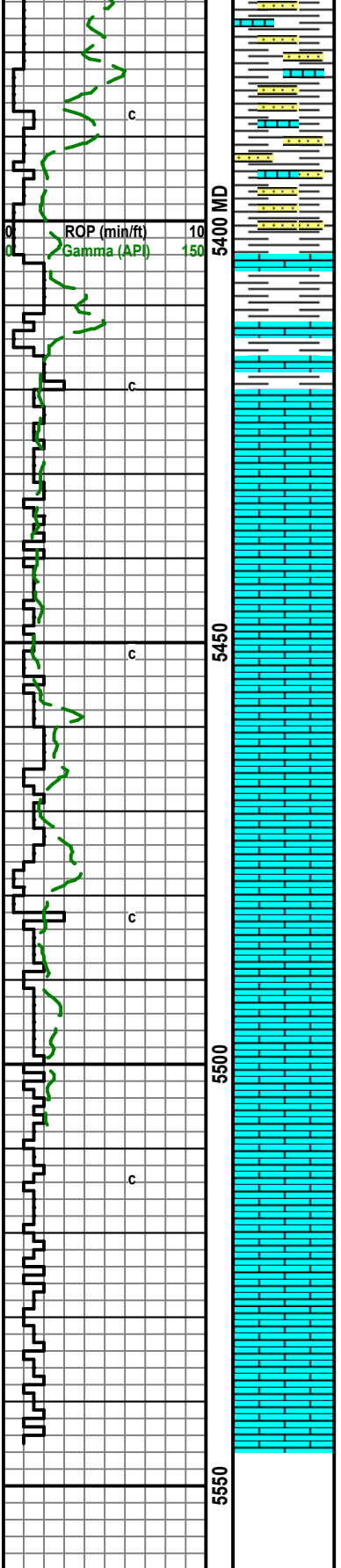
Fil: 7.2 pH: 9.0

LCM: 12#

1000

LMM: 5308 (-1949)

CFS 60"



Sh: gry-drk gry, some lt gry silt grading to vfgm SS, SS: opaque, f-vf gm, sub ang, well sort, no show

Sh: gry-brwn-red-grm/blue-lt gry, some silty, LS: crm, ool in part, other gry-crm dense, some SS: AA

Sh: AA, LS: gry-tan, mcrxln, w/ crm, mcr-fxn, ool

AA

SH: and LS: AA. increase in LS: crm, fxln-mxln, sli gran, ool

LS: crm, sli tan, mxln-grm, ool

LS: crm, sli gry-tan, mxln ool, some mcr-fxn, sli fos

LS: crm-tan, mcrxln, some gran-mxln ool, no show, no odor, no fluor

LS: crm-tan, fxln-mxln, ool

LS: AA

RTD 5545
LTD 5545

CFS 60" Mudco mud chk
1 10 TG, C1-C5 Wt: 9.4 Vis: 56
Fil: 7.2 pH: 9.0 1000
LCM: 14#

Chester: 5408 (-2049)

Miss St. Gen: 5414 (-2055)

CFS 60"



Customer Thoroughbred Associates		Lease & Well # Haggard-Davidson 27-1		Date 11/28/2021	
Service District Oakley KS		County & State Hamilton KS		Legals S/T/R 27-26S-40W	
Job Type Surface		<input type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	Legals S/T/R New Well? <input checked="" type="checkbox"/> YES <input type="checkbox"/> No
Equipment #		Driver		Job Safety Analysis - A Discussion of Hazards & Safety Procedures	
180/520	Michael	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
165/250	Jesse	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
205	Kale	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="" type="checkbox"/> Specific Job Sequence/Expectations
VAP	Scotty	<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations
		<input type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	
Comments					

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
CP050	H-Lite	sack	550.00	\$6,435.00
CP015	H-325	sack	150.00	\$2,700.00
CP100	Calcium Chloride	lb	1,468.00	\$990.90
CP120	Cello-flake	lb	137.00	\$215.78
FE250	8 5/8" Centralizer	ea	3.00	\$243.00
FE260	8 5/8" Guide Shoe	ea	1.00	\$540.00
FE275	8 5/8" AFU Flapper Insert Valve	ea	1.00	\$337.50
FE285	8 5/8" Rubber Plug	ea	1.00	\$157.50
M015	Light Equipment Mileage	mi	100.00	\$180.00
M010	Heavy Equipment Mileage	mi	200.00	\$720.00
M020	Ton Mileage	tm	3,720.00	\$5,022.00
D010	Depth Charge: 0'-500'	job	1.00	\$900.00
C050	Cement Plug Container	job	1.00	\$225.00

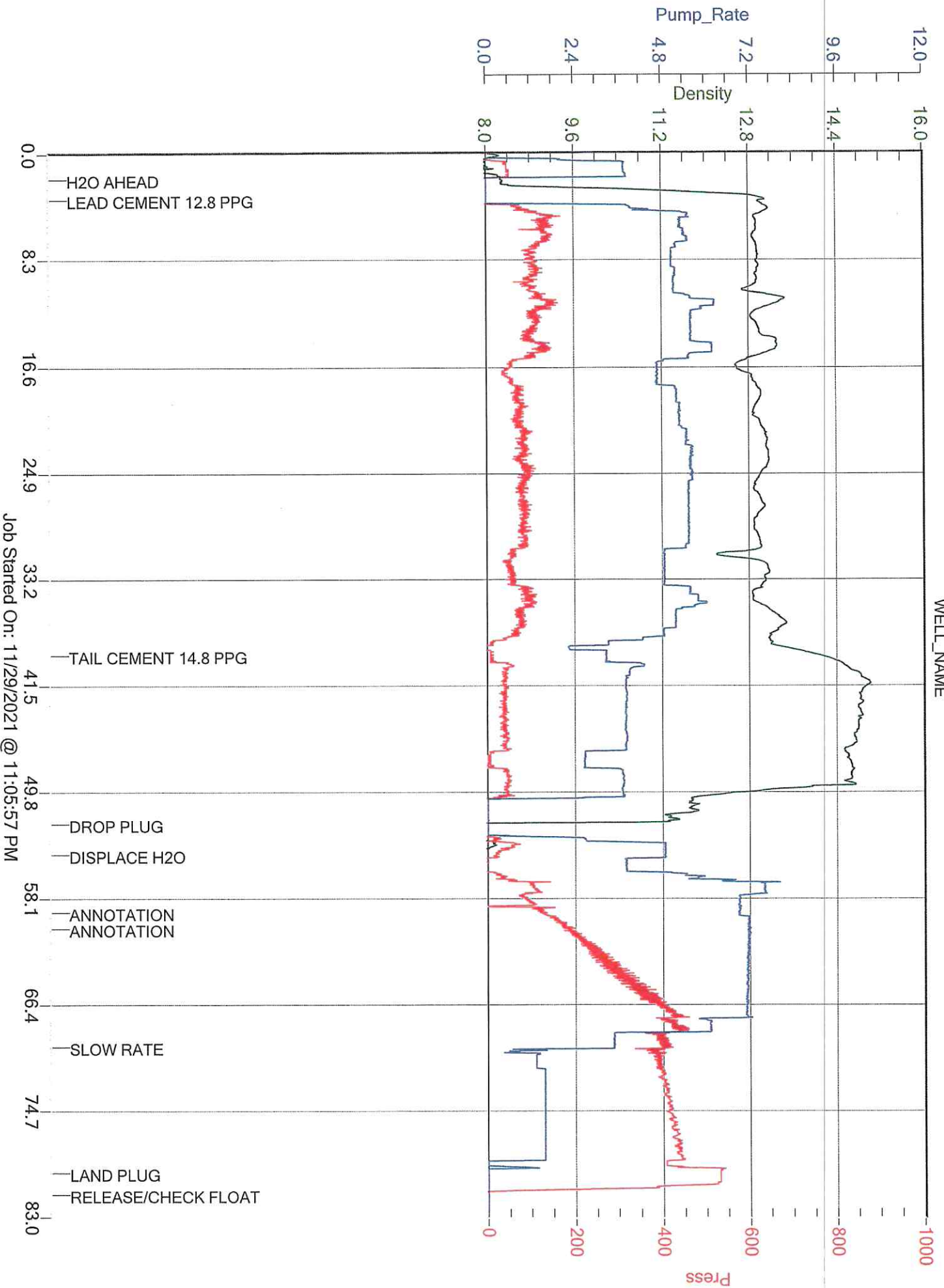
Customer Section: On the following scale how would you rate Hurricane Services Inc.?		Net: \$18,666.68	
Based on this job, how likely is it you would recommend HSI to a colleague?		Total Taxable \$ - Tax Rate:	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Sale Tax: \$ -	
Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely		Total: \$ 18,666.68	
		HSI Representative: <i>Scotty</i>	

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 1/2% 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**

Thoroughbred Associates

WELL_NAME



Job Started On: 11/29/2021 @ 11:05:57 PM