KOLAR Document ID: 1705775

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 # 34352
Name: N-10 Exploration, LLC
Address 1: 124 N MAIN
Address 2: PO BOX 195
City: ATTICA State: KS Zip: 67009 + 0195
Contact Person: Dustin Newberry
Phone: (620) 254-7251
CONTRACTOR: License # 34484
Name: Fossil Drilling, Inc.
Wellsite Geologist: Tim Pierce
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 #:

12/7/2022 Spud Date or Recompletion Date
12/16/2022 Date Reached TD
1/31/2023 Completion Date or Recompletion Date

API No.: 15-077-22191-00-00
Spot Description:
_ - NW - NW - NE Sec. 24 Twp. 31 S. R. 9 ☐ East ☑ West
330 Feet from ☑ North / ☐ South Line of Section
2310 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Harper
Lease Name: BERTHOLF Well #: C1
Field Name: Spivey-Grabs-Basil
Producing Formation: Mississippi
Elevation: Ground: 1595 Kelly Bushing: 1607
Total Vertical Depth: 4598 Plug Back Total Depth: 4544
Amount of Surface Pipe Set and Cemented at: 252 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: 42000 ppm Fluid volume: 240 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Jody Oil & Gas Corporation
Lease Name: Sanders 3A SWD License #: 3288
Quarter SW Sec. 20 Twp. 31 S. R. 8 ☐ East ☑ West
County: Harper Permit #: D23313

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:** David Befort **Date:** 03/22/2023

Operator Name: N-10 Exploration, LLC Lease Name: BERTHOLF Well #: C1

Sec. 24 Twp. 31 S. R. 9 ☐ East ☑ West County: Harper

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 *(Attach Additional Sheets)*	☑ Yes	☐ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☑ Yes	☐ No

List All E. Logs Run:
Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Onaga Sh	2340	(-733)
Topeka L.S.	2913	(-1307)
Heebner Sh	3422	(-1815)
Stark Sh	4051	(-2444)
Mississippi	4355	(-2748)

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	252	60/40 pozmix	200	Calcium/Chloride
Production	7.875	5.5	14	4582	H-long	150	Cello flake

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ 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: 2/7/2023

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	5	100	200		30

DISPOSITION OF GAS: ☐ Vented ☑ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION: ☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*

PRODUCTION INTERVAL:

Top	Bottom
4386	4429

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
4	4404	4429			3000 gallons 10% MCA, 300 sx 100 mesh sand
	4386	4401			1,260 sx 40/70 sand, 470 sx 16/30 sand
					9000 gallons slick water

TUBING RECORD: Size: 2.875 Set At: 4382 Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	N-10 Exploration, LLC
Well Name	BERTHOLF C1
Doc ID	1705775

All Electric Logs Run

Dual Induction
Comp Neutron
Comp Porosity
Micro Log

Form	ACO1 - Well Completion
Operator	N-10 Exploration, LLC
Well Name	BERTHOLF C1
Doc ID	1705775

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	12.25	8.625	23	252	60/40 pozmix	200	Calcium/Chloride
Production	7.875	5.5	14	4582	H-long	150	Cello flake

Timothy G. Pierce

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY N-10 Exploration, LLC
LEASE Bertholf C-1
FIELD Spivey-Grabs
LOCATION NW NW NE
SEC 24 TWSP 31S RGE 9W
COUNTY Harper STATE Kansas

CONTRACTOR Fossil Drilling Rig #3
SPUD 12-07-2022 COMP 12-17-2022
RTD 4600 LTD 4596
MUD UP 2800 TYPE MUD Chemical

SAMPLES SAVED FROM 2000-2400/ 2650-3000/3900-RTD TO RTD
DRILLING TIME KEPT FROM 2000 TO RTD
SAMPLES EXAMINED FROM 2000-2400 2650-3000 TO 3900-RTD
GEOLOGICAL SUPERVISION FROM 2000 to RTD
GEOLOGIST ON WELL Tim Pierce

ELEVATIONS

KB 1607'
DF
GL 1595'
Measurements Are All From Kelly Bushing

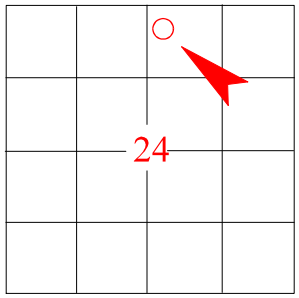
CASING

CONDUCTOR
SURFACE 8-5/8" at 252'
PRODUCTION 5-1/2" at 4597'

ELECTRICAL SURVEYS

DIL / CN-CD / Micro
Midwest Energy Svs.

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Red Eagle	2090 (-483)	2089 (-482)
Onaga Sh.	2340 (-733)	2347 (-740)
Topeka LS.	2913 (-1307)	2915 (-1309)
Heebner Sh.	3422 (-1815)	3425 (-1818)
Lansing	3612 (-2005)	3616 (-2009)
Stark Sh.	4051 (-2444)	4054 (-2447)
Cherokee Sh.	4289 (-2682)	4293 (-2686)
Mississippi	4355 (-2748)	4361 (-2754)



API # 15-077-22,191

REMARKS *Drill stem test covering the top 25 ft of Mississippi had negative results. A second DST further down in the section recovered a show of oil, indicating separate reservoirs within the Mississippi section. Further drilling samples indicated additional shows even deeper into the section, Casing was set to test these deeper shows for productivity. Several shallow zones indicated possibility of gas production, however these zones have been tested in offset wells and are deemed Non-commercial.*

Timothy G. Pierce

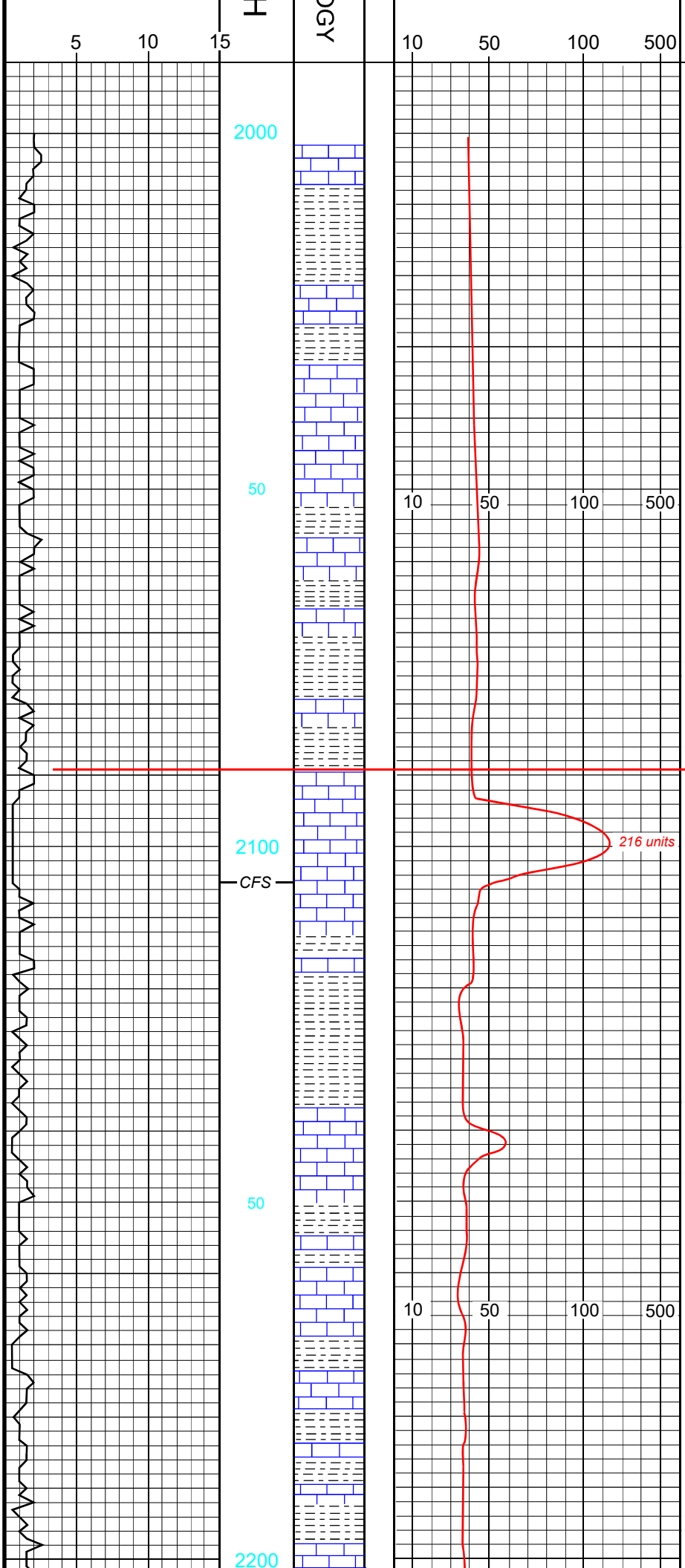
LEGEND

Dolomite
Chert
Cherty LS
Carb Sh
Shale
Limestone
Sandstone
Anhydrite

DRILLING TIME IN MINUTES PER FOOT
Rate of Penetration Decreases

GAS SCALE

REMARKS
SAMPLE DESCRIPTION
LITHOLO
DEPTI



LS - lt-med gr, fn xtln, dense

Sh - gr

LS - tan-wht-gr, fn xtln, dense

Sh - gr

LS - tan-gr-brn, scat fos to oolitic, scat vug por, no vis show

Sh - gr

LS - tan-gr, fn xtln to slt oolitic, dense

LS - tan-gr, dense

Sh - gr

LS - tan-gr, dense

Sh - gr

Red Eagle
2089 (-482)

LS - tan-lt gr, fn xtln, slt oolitic, fair oomoldic por, gd vug por, no vis show gas

LS - tan-gr, fn xtln, dense

Sh - gr

Sh - gr w/ LS - tan-gr, dense

LS - tan-lt gr, fn xtln to slt oolitic, p-f oomoldic por, fair vug and int xtln por, no vis show

LS - tan-gr-wht, fn xtln, dense to slt chalky, scat chert

Sh - gr

LS - tan-wht-gr, fn xtln, dense

Sh - gr, and LS - tan-gr

12-01-22 MIRU

12-07-22 Spud at 7 AM drill 12-1/4" hole to 260' Run 6 jts 8-5/8" (238') set at 252' w/ 200 sx 60/40 Poz, 2% gel, 3%CC, cement did circ PD 5:30 PM
Run tri cone button bit DP 1:30 AM 12-8-22

12-08-22- 7:00 AM drlg @ 570'

12-09-22 7:00 AM drlg @ 1581'

12-10-22 7:00 AM drlg @ 2439'

12-11-22 7:00 AM drlg @ 3266'

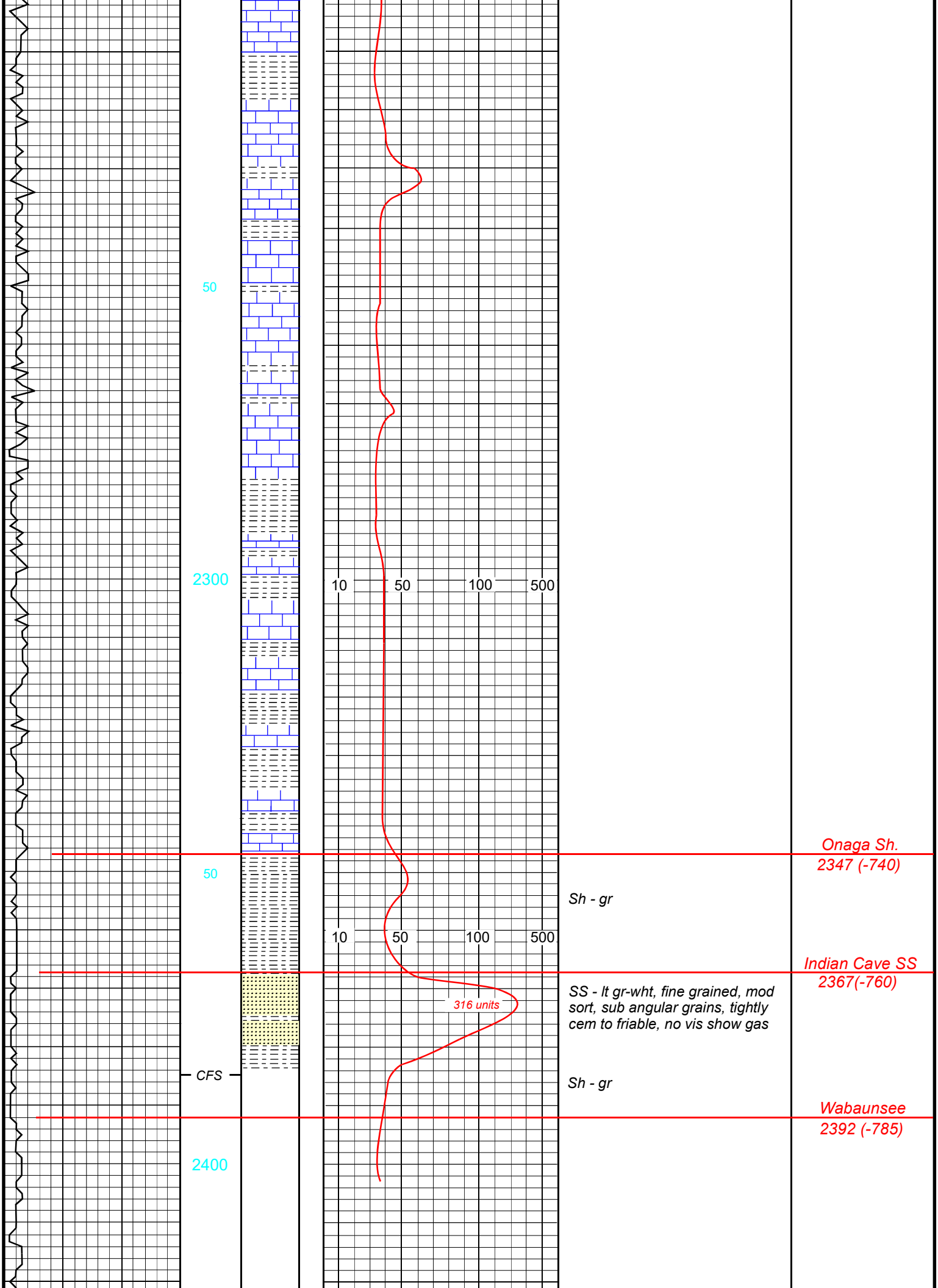
12-12-22 7:00 AM drlg @ 3878'

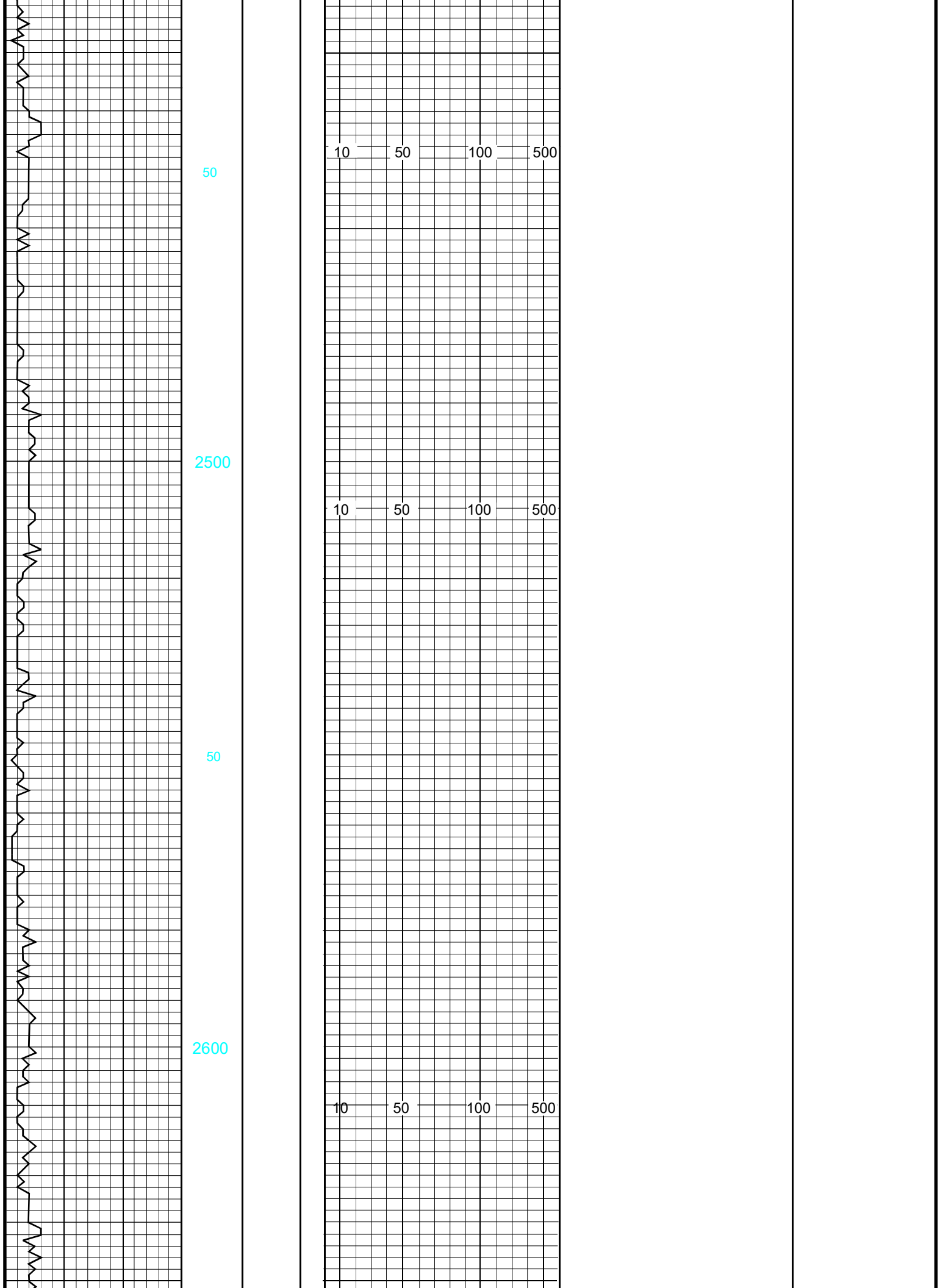
12-13-22 7:00 AM drgl @ 4295'

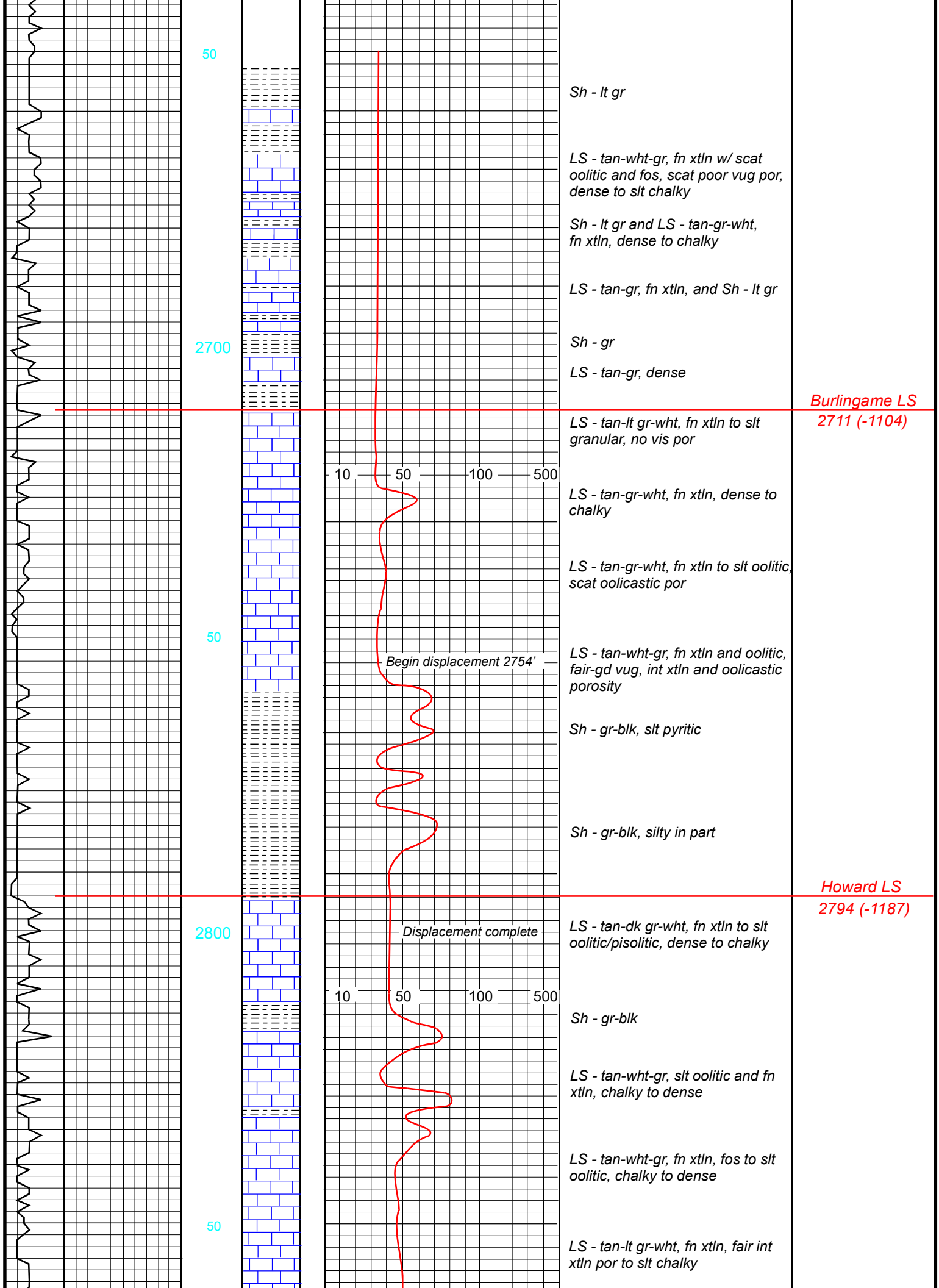
12-14-22 - 7:00 AM 4386' CTCH on bottom after DST #1

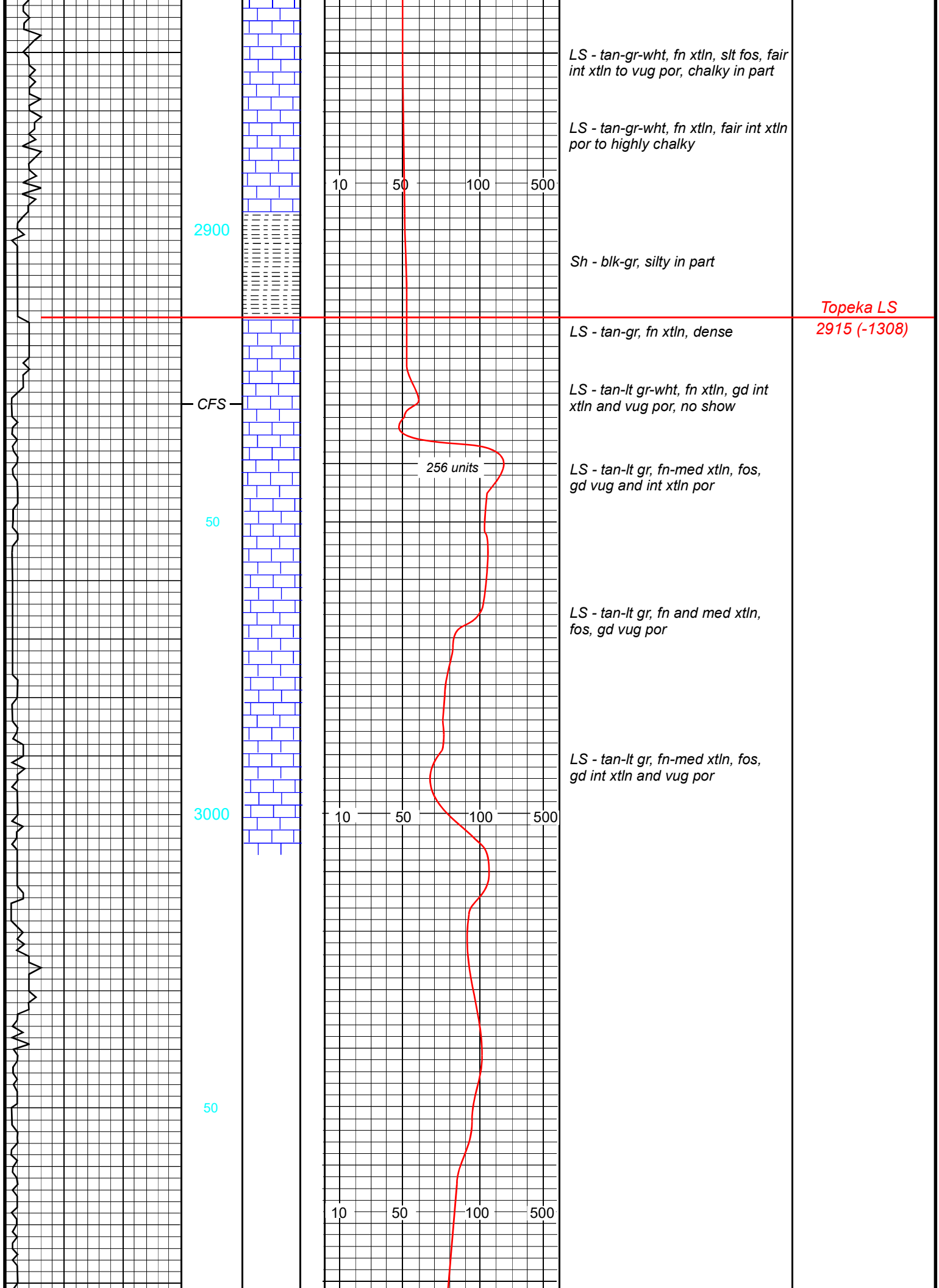
12-15-22 - 7:00 AM drlg @ 4460'
RTD 4600' at 11:30 PM

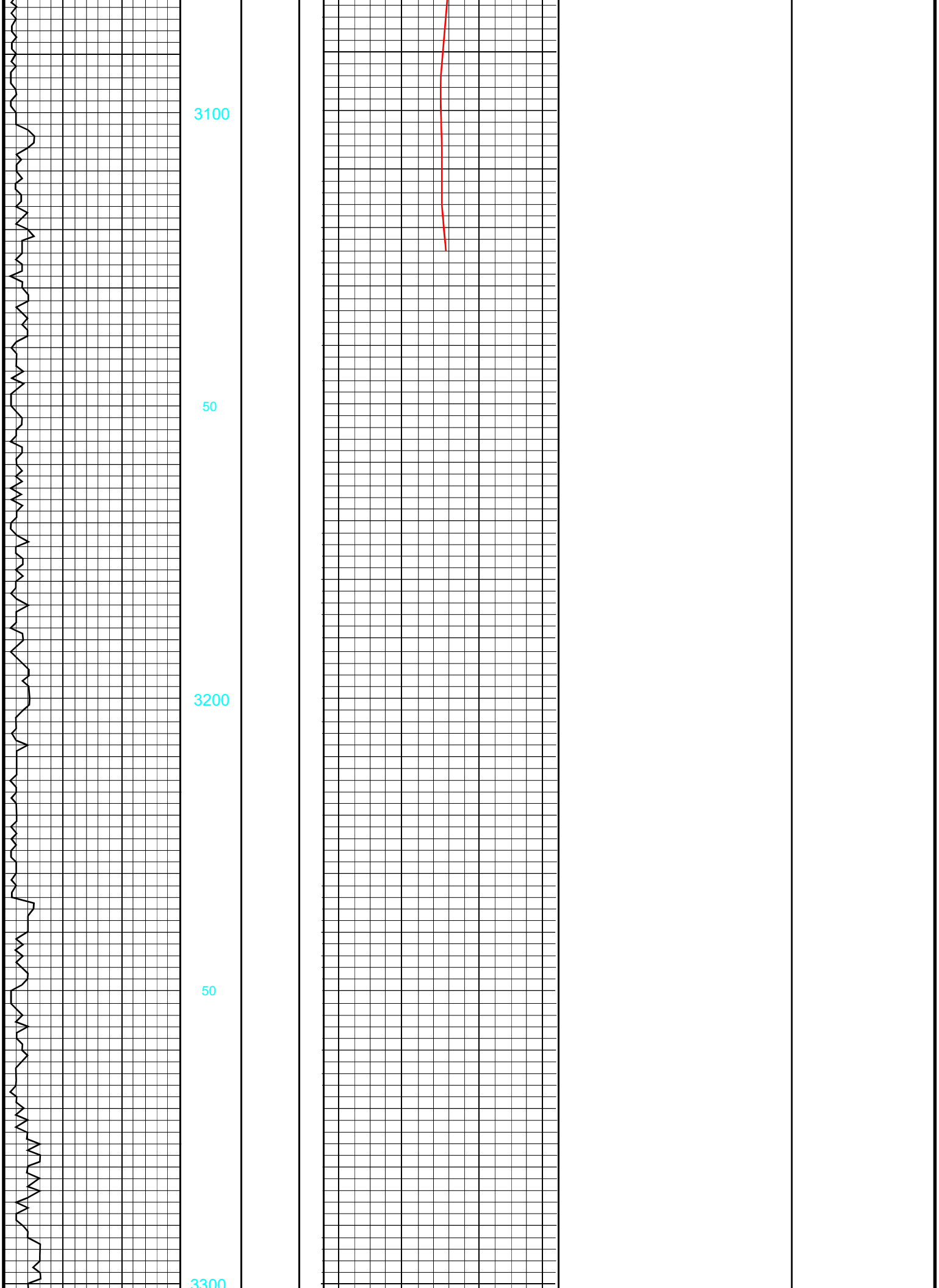
12-16-22 - 7:00 AM 4600' logging

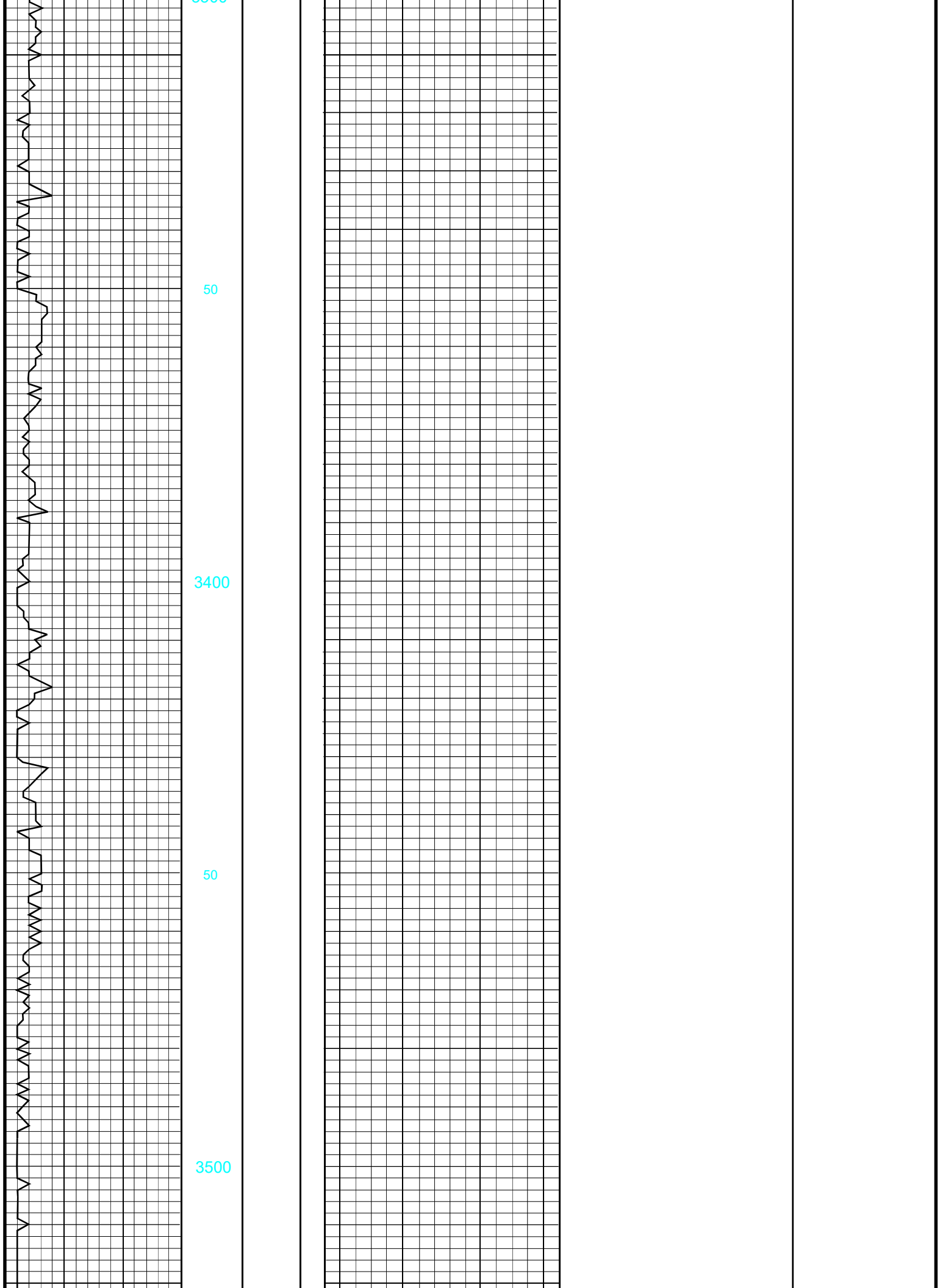

50
2300
10
50
100
500
Onaga Sh.
2347 (-740)
50
Sh - gr
10
50
100
500
Indian Cave SS
2367(-760)
316 units
SS - lt gr-wht, fine grained, mod sort, sub angular grains, tightly cem to friable, no vis show gas
CFS
Sh - gr
Wabaunsee
2392 (-785)
2400

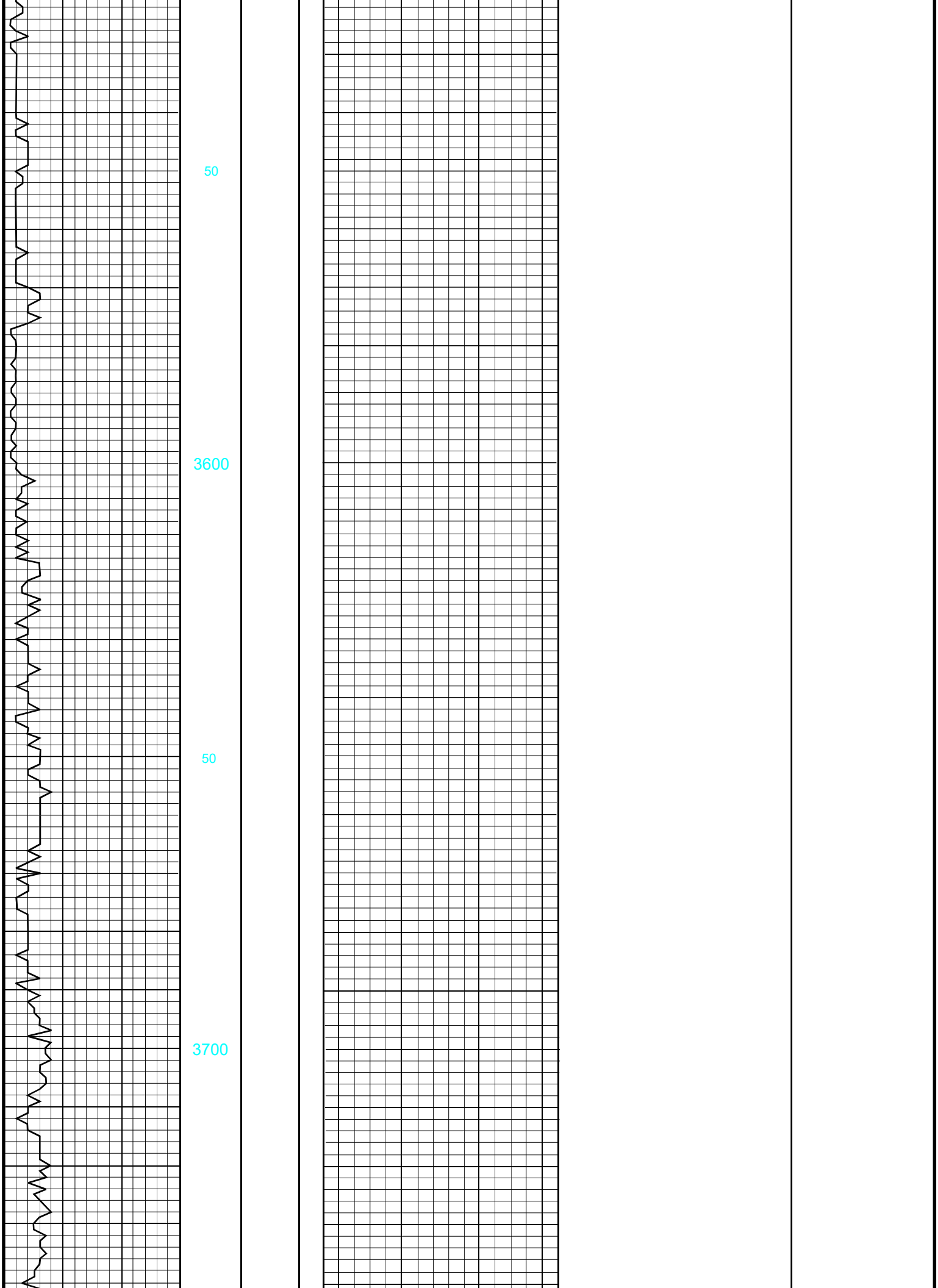

50
2500
50
2600
10
50
100
500
10
50
100
500
10
50
100
500

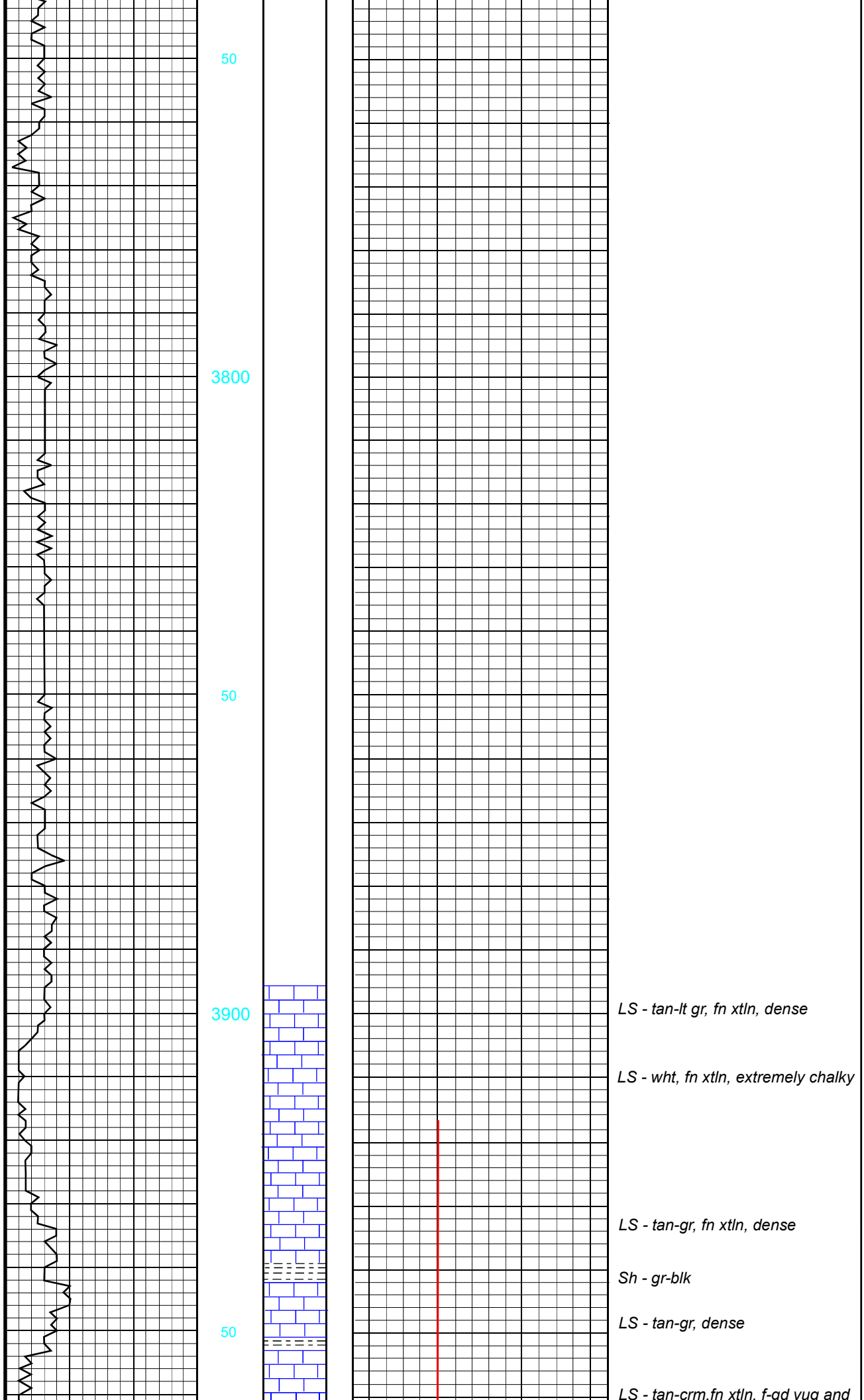

50
2700
50
2800
50
10
50
100
500
Begin displacement 2754'
Displacement complete
10
50
100
500
Sh - lt gr
LS - tan-wht-gr, fn xtln w/ scat oolitic and fos, scat poor vug por, dense to slt chalky
Sh - lt gr and LS - tan-gr-wht, fn xtln, dense to chalky
LS - tan-gr, fn xtln, and Sh - lt gr
Sh - gr
LS - tan-gr, dense
Burlingame LS
2711 (-1104)
LS - tan-lt gr-wht, fn xtln to slt granular, no vis por
LS - tan-gr-wht, fn xtln, dense to chalky
LS - tan-gr-wht, fn xtln to slt oolitic, scat oolicastic por
LS - tan-wht-gr, fn xtln and oolitic, fair-gd vug, int xtln and oolicastic porosity
Sh - gr-blk, slt pyritic
Sh - gr-blk, silty in part
Howard LS
2794 (-1187)
LS - tan-dk gr-wht, fn xtln to slt oolitic/pisolitic, dense to chalky
Sh - gr-blk
LS - tan-wht-gr, slt oolitic and fn xtln, chalky to dense
LS - tan-wht-gr, fn xtln, fos to slt oolitic, chalky to dense
LS - tan-lt gr-wht, fn xtln, fair int xtln por to slt chalky

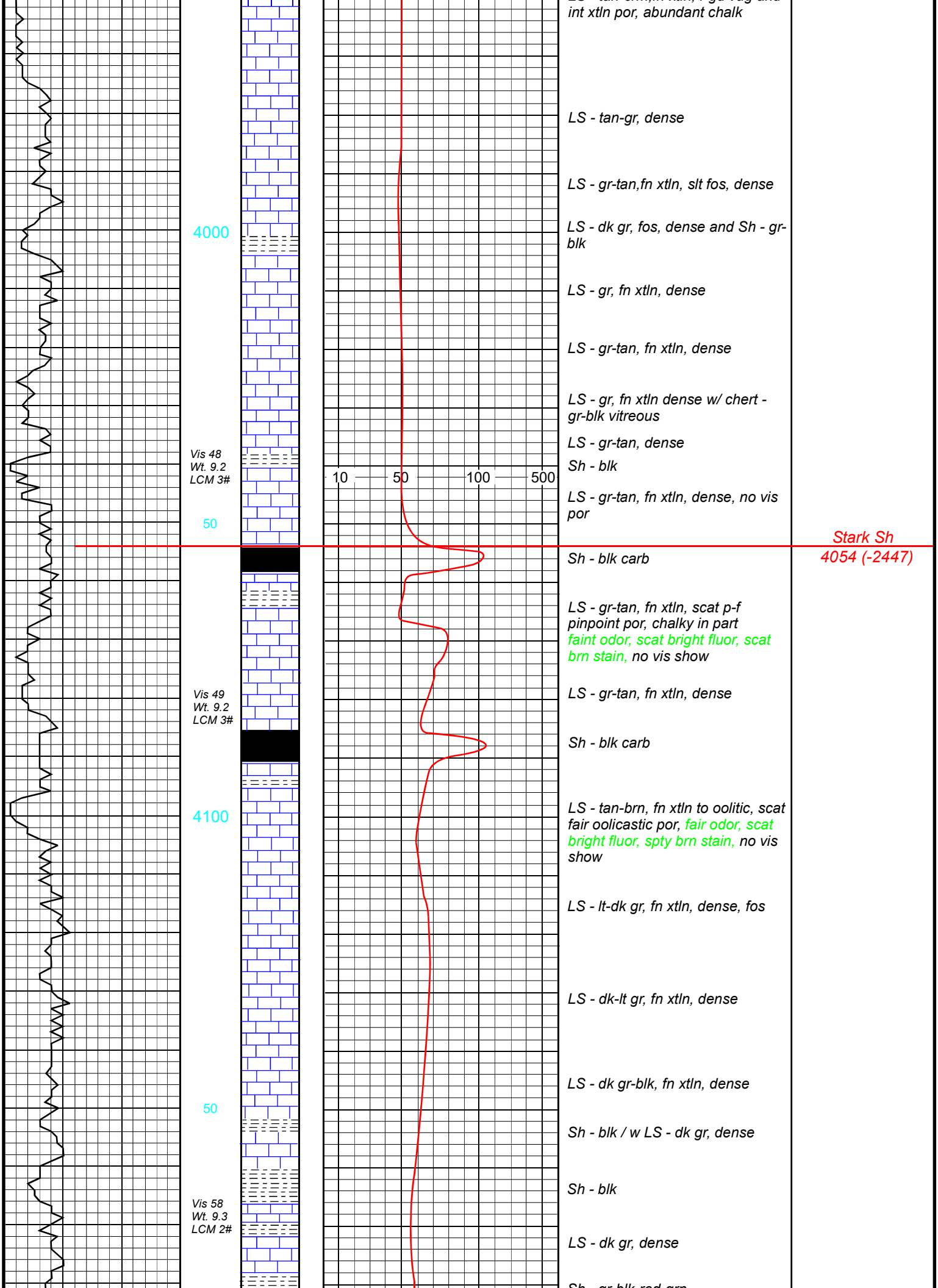

LS - tan-gr-wht, fn xtln, slt fos, fair int xtln to vug por, chalky in part
LS - tan-gr-wht, fn xtln, fair int xtln por to highly chalky
10
50
100
500
2900
Sh - blk-gr, silty in part
Topeka LS
2915 (-1308)
LS - tan-gr, fn xtln, dense
CFS
LS - tan-lt gr-wht, fn xtln, gd int xtln and vug por, no show
256 units
LS - tan-lt gr, fn-med xtln, fos, gd vug and int xtln por
50
LS - tan-lt gr, fn and med xtln, fos, gd vug por
LS - tan-lt gr, fn-med xtln, fos, gd int xtln and vug por
3000
10
50
100
500
50
10
50
100
500

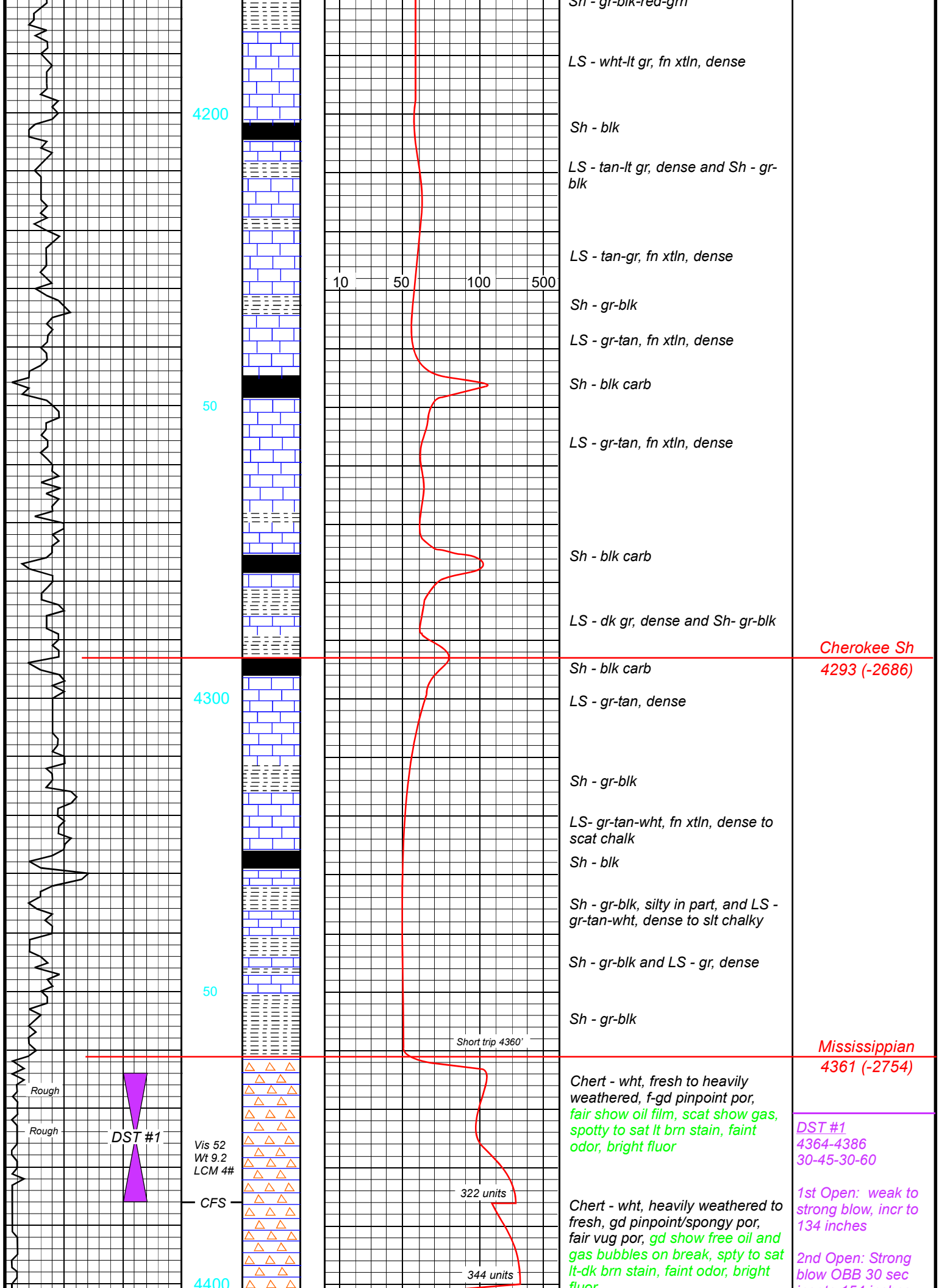

3100
50
3200
50
3300

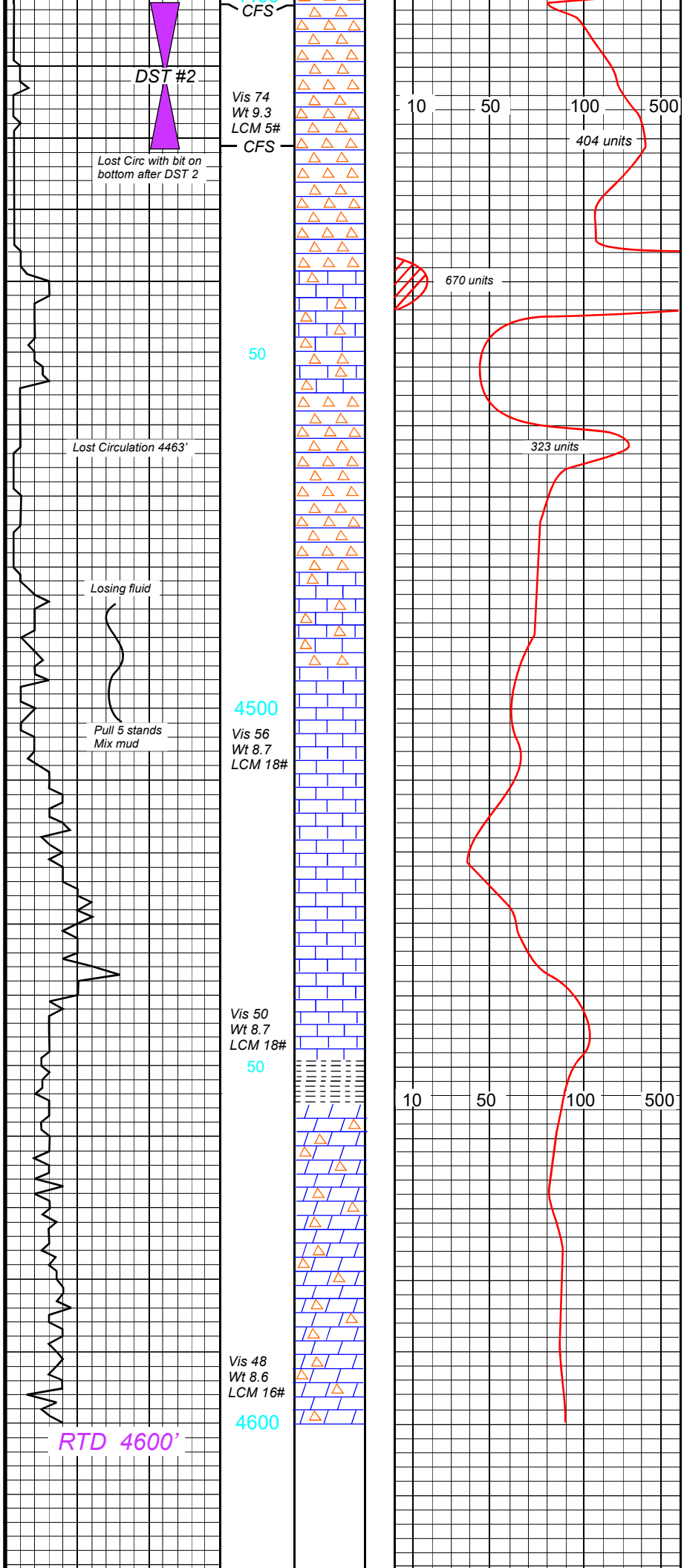

50
3400
50
3500


50
3600
50
3700


50
3800
50
3900
50
LS - tan-lt gr, fn xtln, dense
LS - wht, fn xtln, extremely chalky
LS - tan-gr, fn xtln, dense
Sh - gr-blk
LS - tan-gr, dense
LS - tan-crm,fn xtln, f-gd vug and


int xtln por, abundant chalk
LS - tan-gr, dense
LS - gr-tan,fn xtln, slt fos, dense
4000
LS - dk gr, fos, dense and Sh - gr-blk
LS - gr, fn xtln, dense
LS - gr-tan, fn xtln, dense
LS - gr, fn xtln dense w/ chert - gr-blk vitreous
LS - gr-tan, dense
Vis 48
Wt. 9.2
LCM 3#
Sh - blk
10
50
100
500
LS - gr-tan, fn xtln, dense, no vis por
50
Stark Sh
4054 (-2447)
Sh - blk carb
LS - gr-tan, fn xtln, scat p-f pinpoint por, chalky in part faint odor, scat bright fluor, scat brn stain, no vis show
Vis 49
Wt. 9.2
LCM 3#
LS - gr-tan, fn xtln, dense
Sh - blk carb
4100
LS - tan-brn, fn xtln to oolitic, scat fair oolicastic por, fair odor, scat bright fluor, spty brn stain, no vis show
LS - lt-dk gr, fn xtln, dense, fos
LS - dk-lt gr, fn xtln, dense
LS - dk gr-blk, fn xtln, dense
50
Sh - blk / w LS - dk gr, dense
Sh - blk
Vis 58
Wt. 9.3
LCM 2#
LS - dk gr, dense


Sh - gr-blk-red-grn
LS - wht-lt gr, fn xtln, dense
4200
Sh - blk
LS - tan-lt gr, dense and Sh - gr-blk
LS - tan-gr, fn xtln, dense
10
50
100
500
Sh - gr-blk
LS - gr-tan, fn xtln, dense
Sh - blk carb
50
LS - gr-tan, fn xtln, dense
Sh - blk carb
LS - dk gr, dense and Sh- gr-blk
Cherokee Sh
4293 (-2686)
Sh - blk carb
4300
LS - gr-tan, dense
Sh - gr-blk
LS- gr-tan-wht, fn xtln, dense to scat chalk
Sh - blk
Sh - gr-blk, silty in part, and LS - gr-tan-wht, dense to slt chalky
Sh - gr-blk and LS - gr, dense
50
Sh - gr-blk
Short trip 4360'
Mississippian
4361 (-2754)
Rough
Rough
DST #1
Vis 52
Wt 9.2
LCM 4#
CFS
Chert - wht, fresh to heavily weathered, f-gd pinpoint por, fair show oil film, scat show gas, spotty to sat lt brn stain, faint odor, bright fluor
DST #1
4364-4386
30-45-30-60
1st Open: weak to strong blow, incr to 134 inches
322 units
Chert - wht, heavily weathered to fresh, gd pinpoint/spongy por, fair vug por, gd show free oil and gas bubbles on break, spty to sat lt-dk brn stain, faint odor, bright fluor
2nd Open: Strong blow OBB 30 sec
4400
344 units



Chert - wht, partly weath to fresh, f-gd vug por, gd show oil film, scat gd show free oil and gas on break spty to sat lt brn to blk stain, gd odor, bright fluor

Samples questionable due to loss circulation below 4421'

Chert - wht-weath to tripolitic, gd show oil film, no show gas, spotty to sat lt brn stain, gd odor, bright fluor

LS - tan-gr, fn xtln, dense

Chert - wht, weathered, f-gd vug por, gd show dk oil film, no show gas, spty to sat brn-blk stain, gd odor, bright fluor

Chert - wht, weathered, f-gd vug por, gd show dk oil film, scat gd show free dk oil and gas, spty to sat dk brn-blk stain, gd odor, bright fluor

Chert - wht, fresh to devitrified, angular, some weathered surfaces slt show oil film, scat brn-blk stain, faint odor

Chert - wht, fresh to devitrified, angular, as above w/ LS - tan, lt gr and wht, granular, dense

LS - lt gr-wht, fn xtln, dense to somewhat granular

LS - lt gr-wht, fn xtln, dense, slt granular

LS / Dolo - lt gr-tan-wht, fn xtln, dense to granular, scat gr vitreous chert

LS / Dolo - lt gr-tan-wht, fn xtln, dense, scat gr vitreous chert

incr to 154 inches

Recovery: 300' GIP
165' OSGMW
(5% gas, 35% m, 60%w)

IFP: 37-64#
FFP: 51-84#
SIP: 397-398#
HP: 2149-2088#
BHT: 119 degrees

DST #2
4401-4421
30-60-30-60

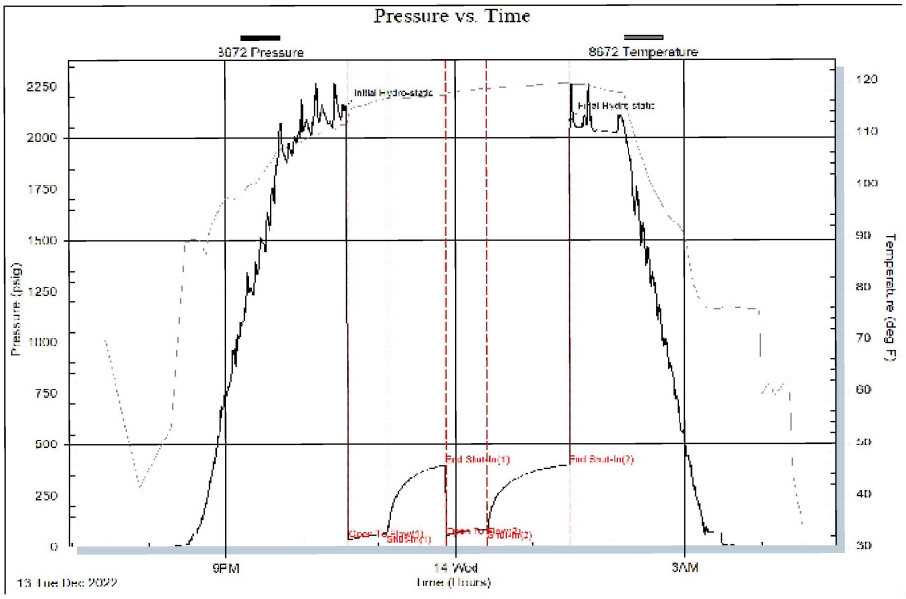
1st Open: weak to strong blow, incr to 163 inches

2nd Open: Strong blow OBB immed incr to 197 inches

Recovery:
165' OCMW
(10% oil, 30% m, 60%w)

IFP: 28-64#
FFP: 36-82#
SIP: 454-442#
HP: 2069-2054#
BHT: 118 degrees

Serial #: 8672 Inside N-1 Exploration, LLC Bertolf C-1 DST Test Number: 1



Infobtc Testing, Inc Hot. No: 68287 Printed: 2022.12.14 @ 05:17:30

DST #1
4364-4386
30-45-30-60

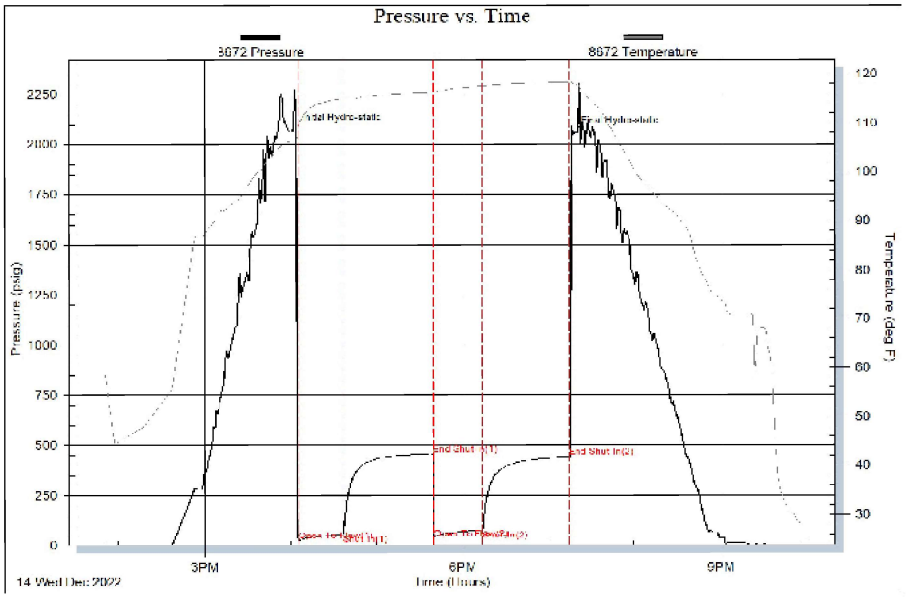
1st Open: weak to strong blow, incr to 134 inches

2nd Open: Strong blow OBB 30 sec incr to 154 inches

Recovery: 300' GIP
165' OSGMW
(5% gas, 35% m, 60%w)

IFP: 37-64#
FFP: 51-84#
SIP: 397-398#
HP: 2149-2088#
BHT: 119 degrees

Serial #: 8672 Inside N-1 Exploration, LLC Bertolf C-1 DST Test Number: 2



Infobtc Testing, Inc Hot. No: 68288 Printed: 2022.12.14 @ 22:18:03

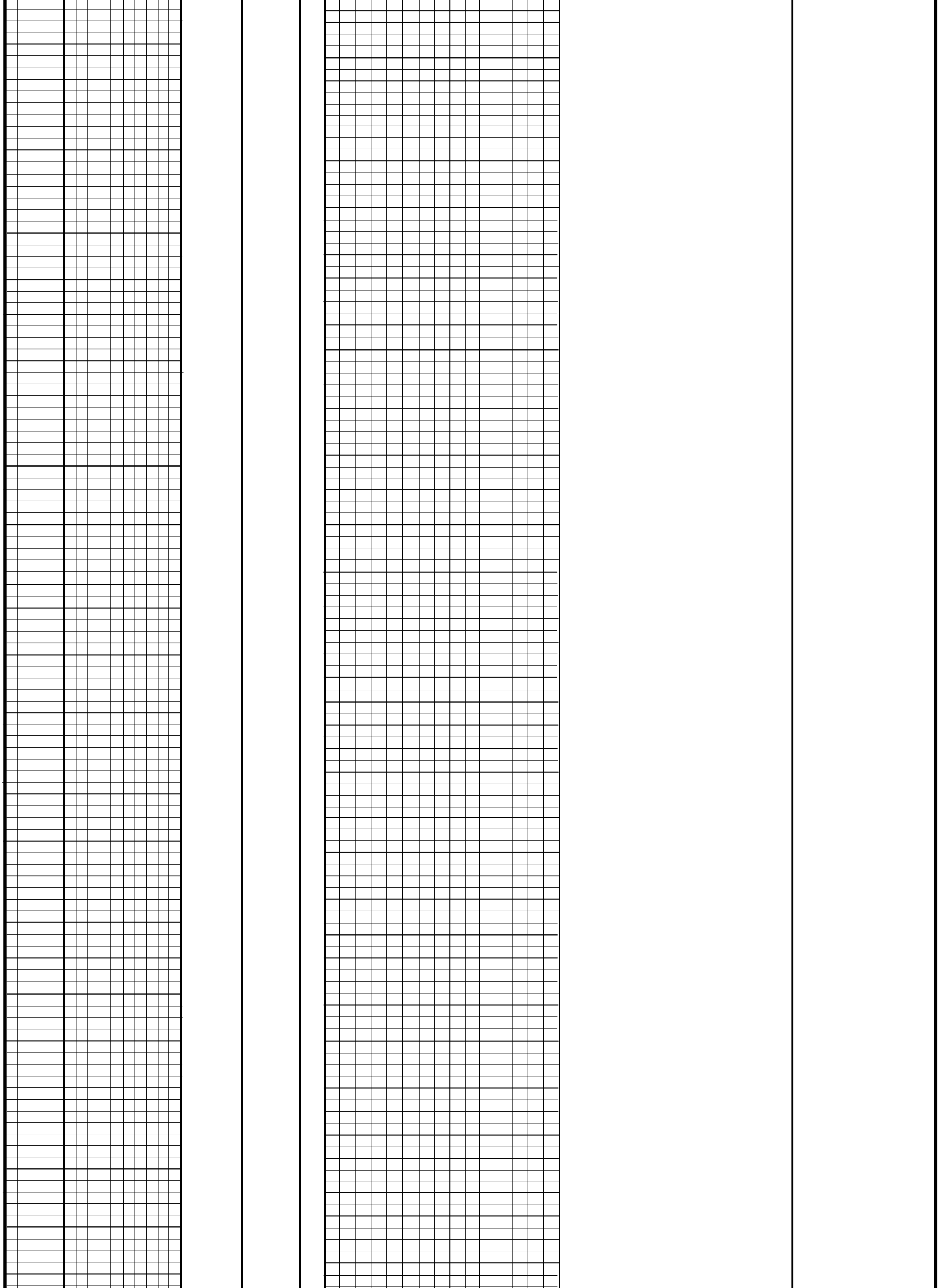
DST #2
4401-4421
30-60-30-60

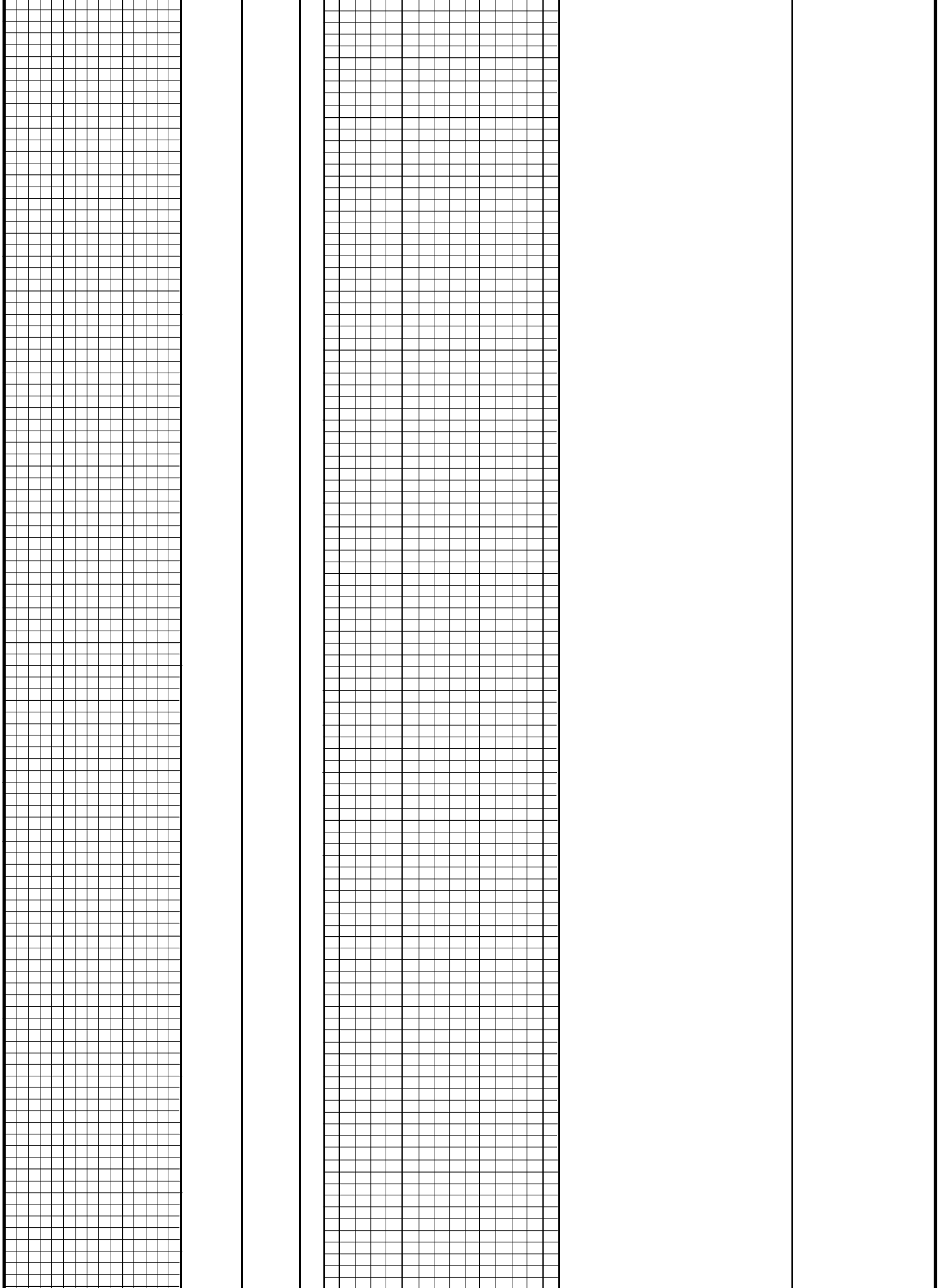
1st Open: weak to strong blow, incr to 163 inches

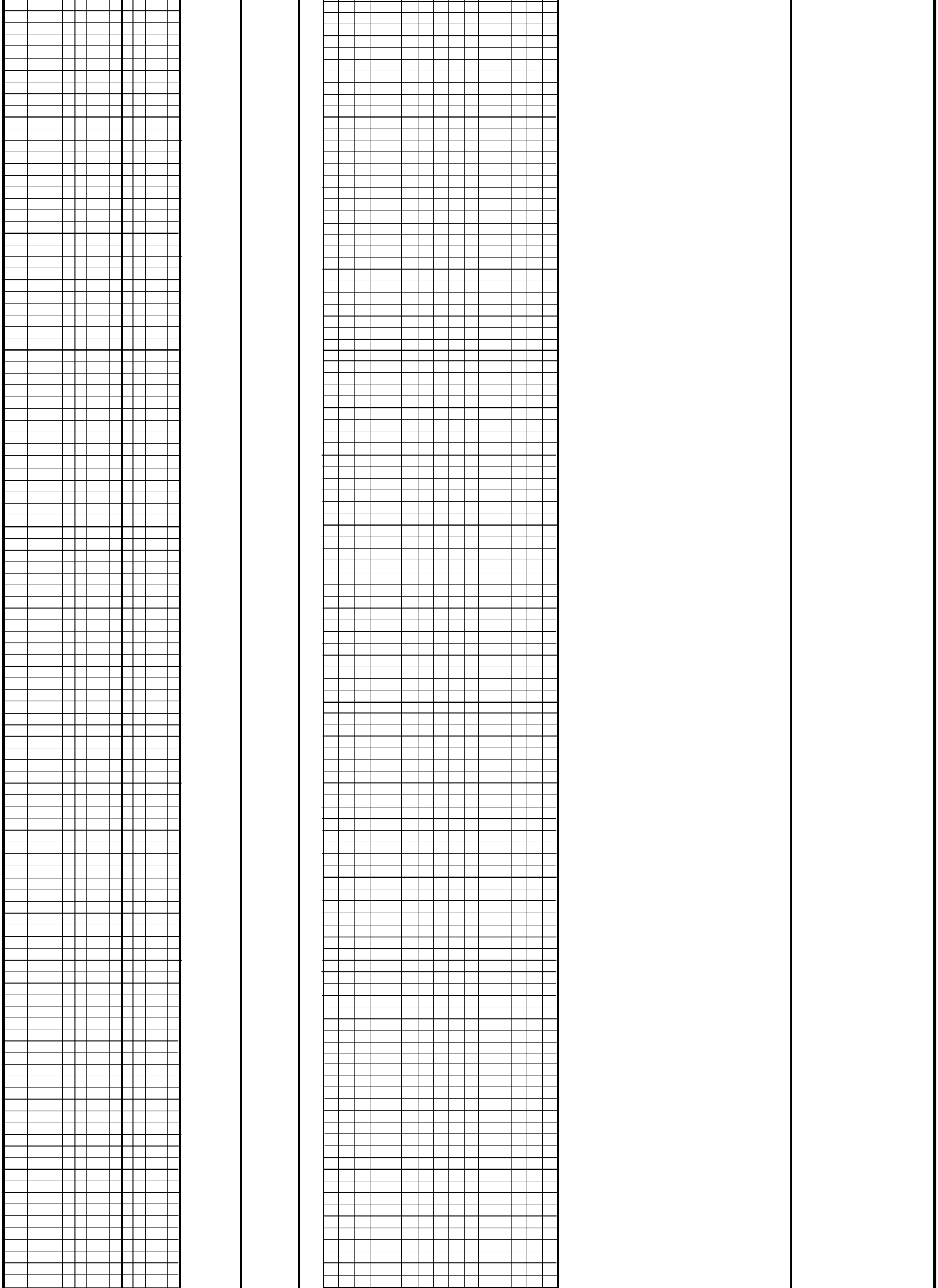
2nd Open: Strong blow OBB immed incr to 197 inches

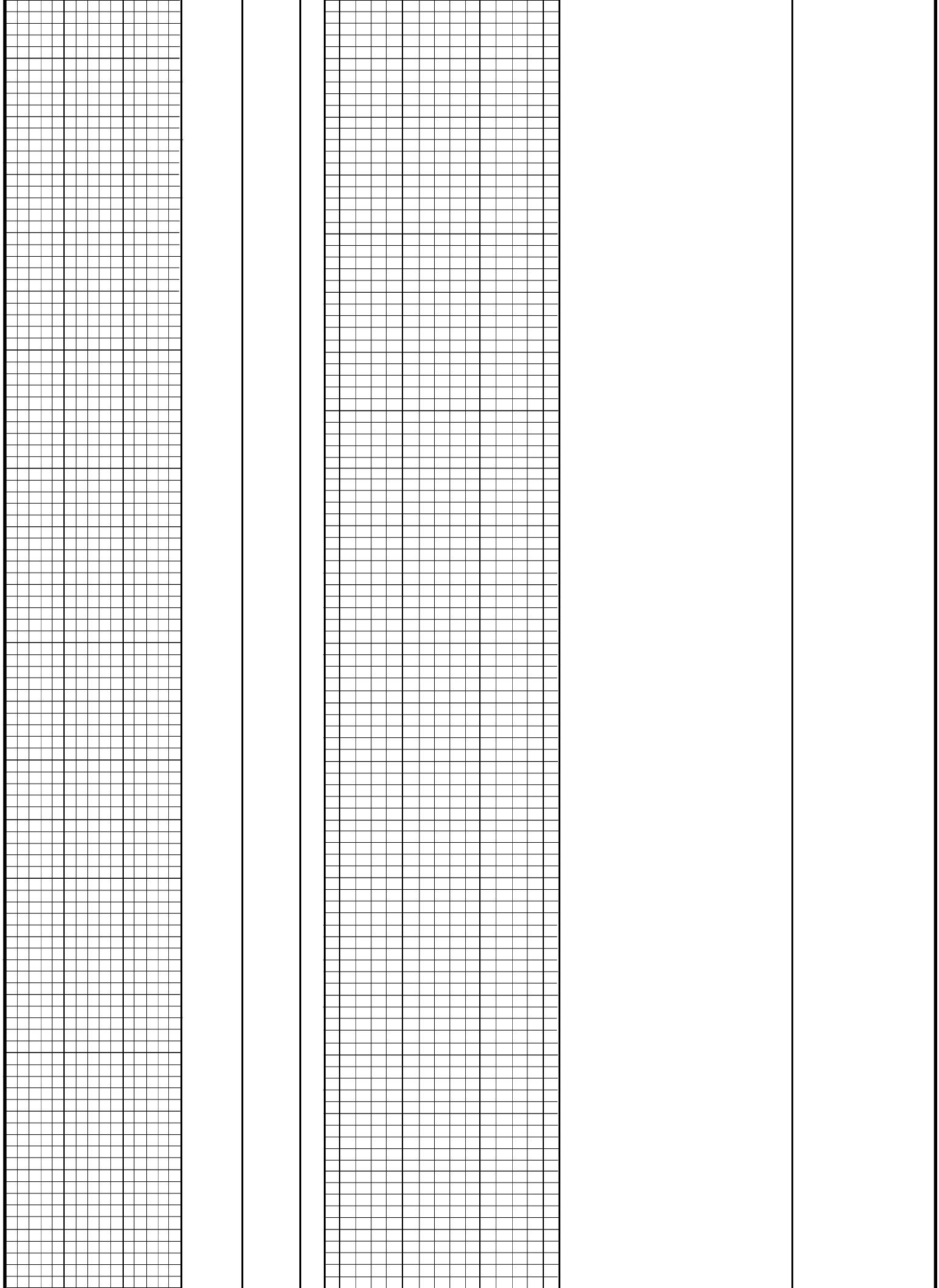
Recovery:
165' OCMW
(10% oil, 30% m, 60%w)

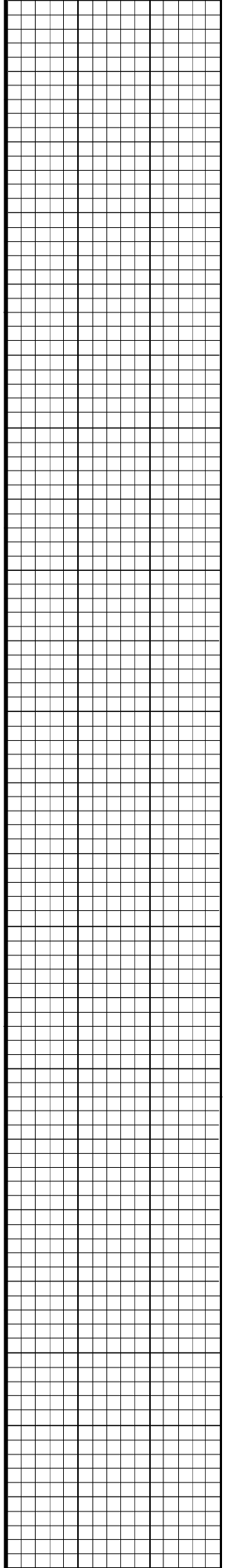
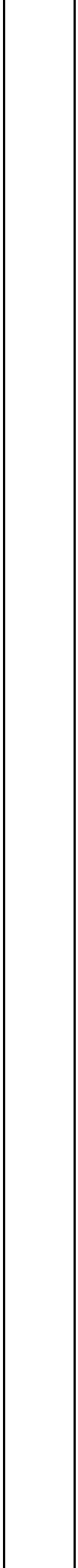
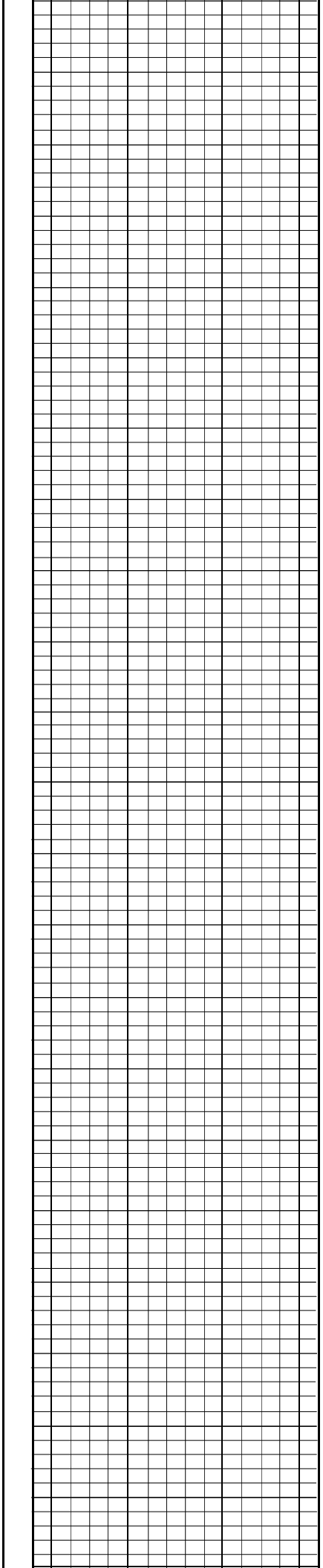
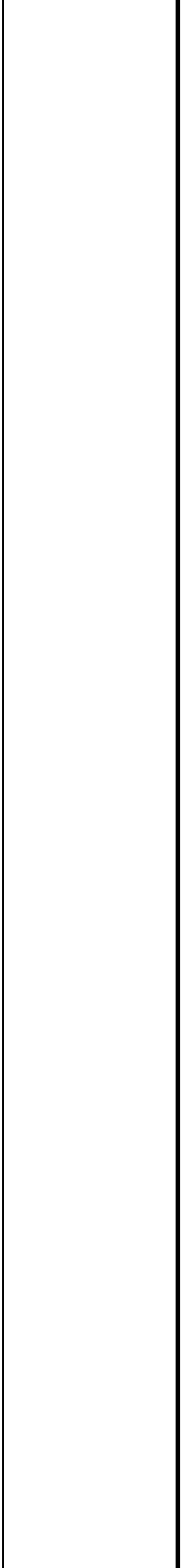
IFP: 28-64#
FFP: 36-82#
SIP: 454-442#
HP: 2069-2054#
BHT: 118 degrees

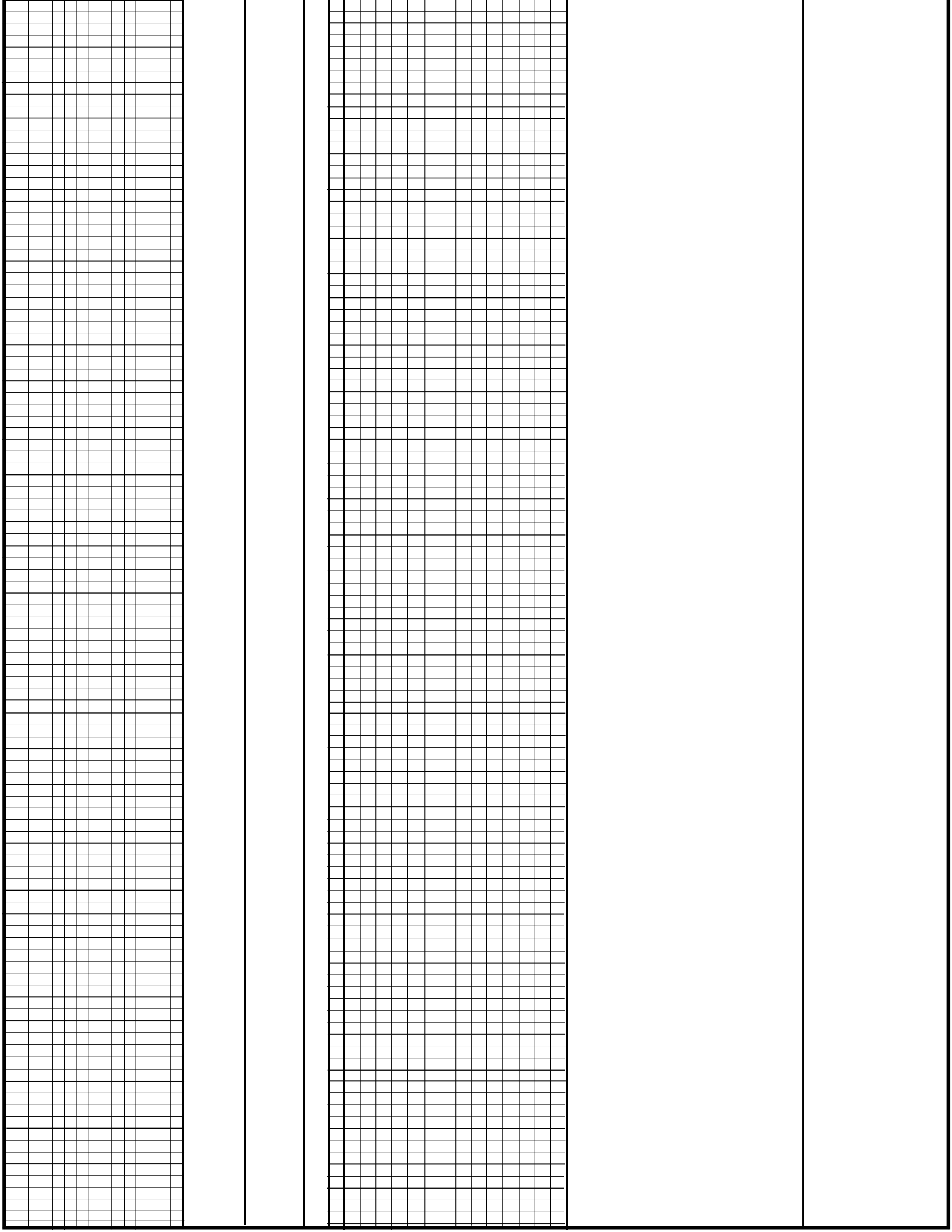










DRILL STEM TEST REPORT

Prepared For: **N-10 Exploration, LLC**

PO Box 195
Attica, KS 67009

ATTN: Tim Pierce

Bertholf #C1

24-31s-9w Harper,KS

Start Date: 2022.12.13 @ 19:25:00
End Date: 2022.12.14 @ 04:30:47
Job Ticket #: 69267 DST #: 1

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

Printed: 2022.12.15 @ 10:40:09

DRILL STEM TEST REPORT

N-10 Exploration, LLC

PO Box 195
Attica, KS 67009

ATTN: Tim Pierce

24-31s-9w Harper,KS

Bertholf #C1

Job Ticket: 69267 **DST#: 1**

Test Start: 2022.12.13 @ 19:25:00

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:36:02
Time Test Ended: 04:30:47

Test Type: Conventional Bottom Hole (Initial)
Tester: Chris Hagman
Unit No: 69

Interval: 4364.00 ft (KB) To 4386.00 ft (KB) (TVD)
Total Depth: 4386.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

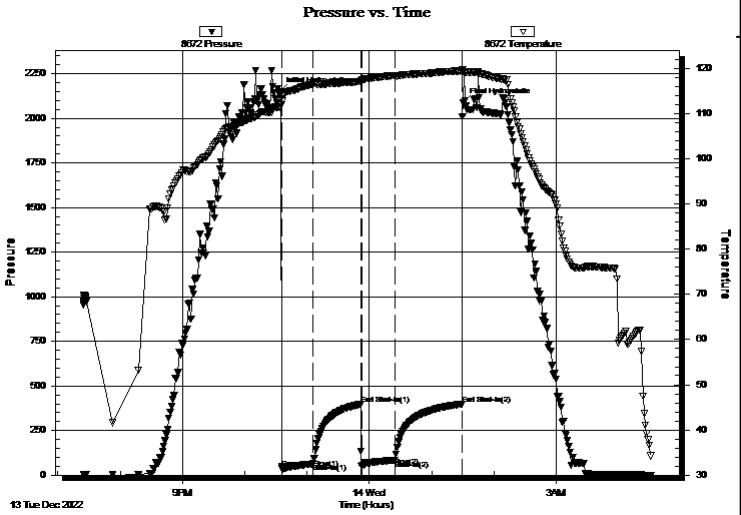
Reference Elevations: 1607.00 ft (KB)
1595.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8672 **Inside**

Press@RunDepth: 84.36 psig @ 4366.00 ft (KB)
Start Date: 2022.12.13 End Date: 2022.12.14
Start Time: 19:25:01 End Time: 04:30:47

Capacity: psig
Last Calib.: 2022.12.13
Time On Btm: 2022.12.13 @ 22:34:02
Time Off Btm: 2022.12.14 @ 01:30:02

TEST COMMENT: IF: 30 min., BOB 1 min., strong building blow , 134 inches
ISI: 45 min., no blow back
FF: 30 min., BOB 30 sec., strong building blow , 154 inches
FSI: 45 min., no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2149.06	111.51	Initial Hydro-static
2	37.13	112.78	Open To Flow (1)
32	63.94	116.52	Shut-In(1)
78	397.31	117.10	End Shut-In(1)
79	50.77	117.20	Open To Flow (2)
111	84.36	118.42	Shut-In(2)
175	398.49	119.44	End Shut-In(2)
176	2087.50	119.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
165.00	GMCW w / oil spots 5%G,65%W,35%M	1.22

Gas Rates

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

DRILL STEM TEST REPORT

N-10 Exploration, LLC

PO Box 195
Attica, KS 67009

ATTN: Tim Pierce

24-31s-9w Harper,KS

Bertholf #C1

Job Ticket: 69267 **DST#: 1**

Test Start: 2022.12.13 @ 19:25:00

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:36:02
Time Test Ended: 04:30:47

Test Type: Conventional Bottom Hole (Initial)
Tester: Chris Hagman
Unit No: 69

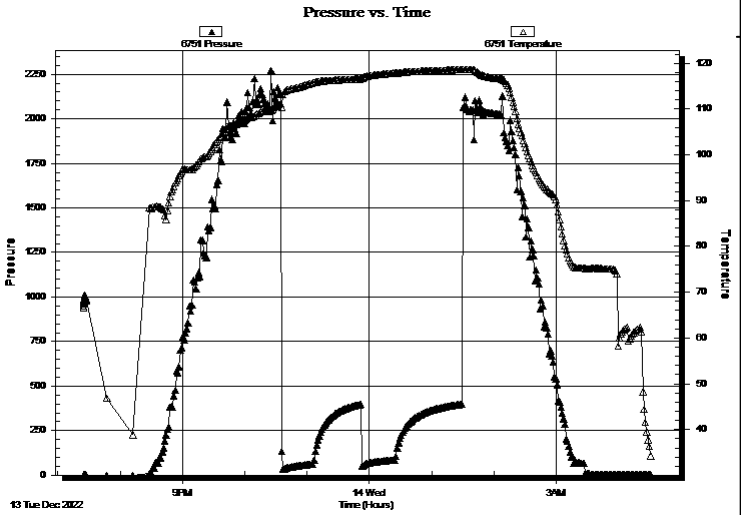
Interval: 4364.00 ft (KB) To 4386.00 ft (KB) (TVD)
Total Depth: 4386.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1607.00 ft (KB)
1595.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6751 **Outside**
Press@RunDepth: psig @ 4366.00 ft (KB)
Start Date: 2022.12.13 End Date: 2022.12.14
Start Time: 19:25:01 End Time: 04:30:47

Capacity: psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 30 min., BOB 1 min., strong building blow , 134 inches
ISI: 45 min., no blow back
FF: 30 min., BOB 30 sec., strong building blow , 154 inches
FSI: 45 min., no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
165.00	GMCW w / oil spots 5%G,65%W,35%M	1.22

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

N-10 Exploration, LLC

PO Box 195
Attica, KS 67009

ATTN: Tim Pierce

24-31s-9w Harper,KS

Bertholf #C1

Job Ticket: 69267 **DST#: 1**

Test Start: 2022.12.13 @ 19:25:00

Tool Information

Drill Pipe:	Length:	4244.00 ft	Diameter:	3.80	inches	Volume:	59.53	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	120.00 ft	Diameter:	2.25	inches	Volume:	0.59	bbl	
						Total Volume:	60.12	bbl	

Drill Pipe Above KB:	25.00 ft
Depth to Top Packer:	4364.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	22.00 ft
Tool Length:	47.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2000.00 lb
Weight set on Packer:		20000.00 lb
Weight to Pull Loose:		70000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	58000.00 lb
	Final	58000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4344.00		
Hydraulic tool	5.00			4349.00		
Isolator Sub	3.00			4352.00		
Safety Joint	3.00			4355.00		
Packer	5.00			4360.00	25.00	Bottom Of Top Packer
Packer	4.00			4364.00		
Stubb	1.00			4365.00		
Perforations	1.00			4366.00		
Recorder	0.00	8672	Inside	4366.00		
Recorder	0.00	6751	Outside	4366.00		
Pickup sub perf	5.00			4371.00		
Perforations	12.00			4383.00		
Bullnose	3.00			4386.00	22.00	Bottom Packers & Anchor
Total Tool Length:	**47.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

N-10 Exploration, LLC

PO Box 195
Attica, KS 67009

ATTN: Tim Pierce

24-31s-9w Harper,KS

Bertholf #C1

Job Ticket: 69267 **DST#: 1**

Test Start: 2022.12.13 @ 19:25:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	38000 ppm
Viscosity:	66.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4500.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
165.00	GMCW w / oil spots 5%G,65%W,35%M	1.221

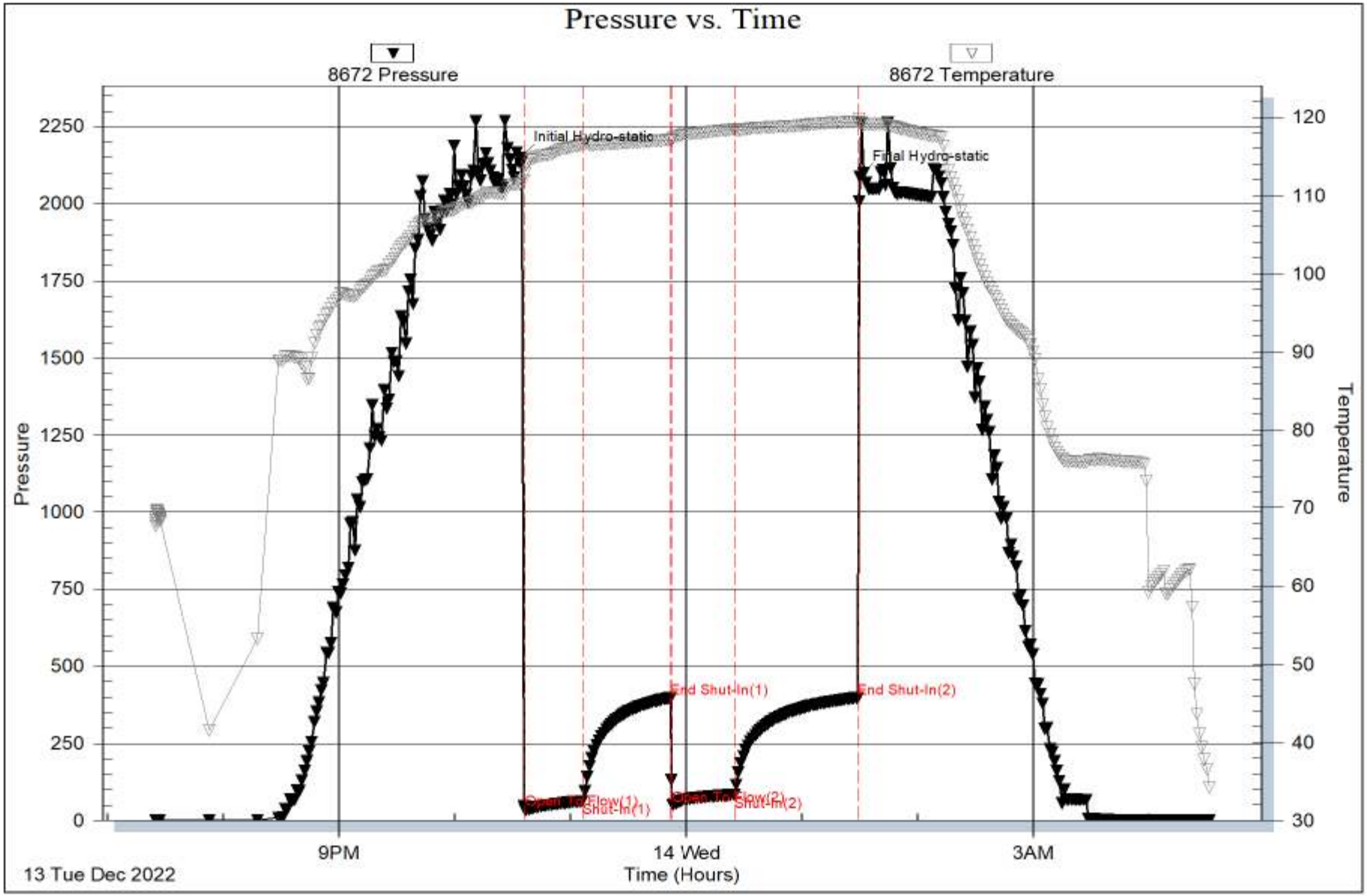
Total Length: 165.00 ft Total Volume: 1.221 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

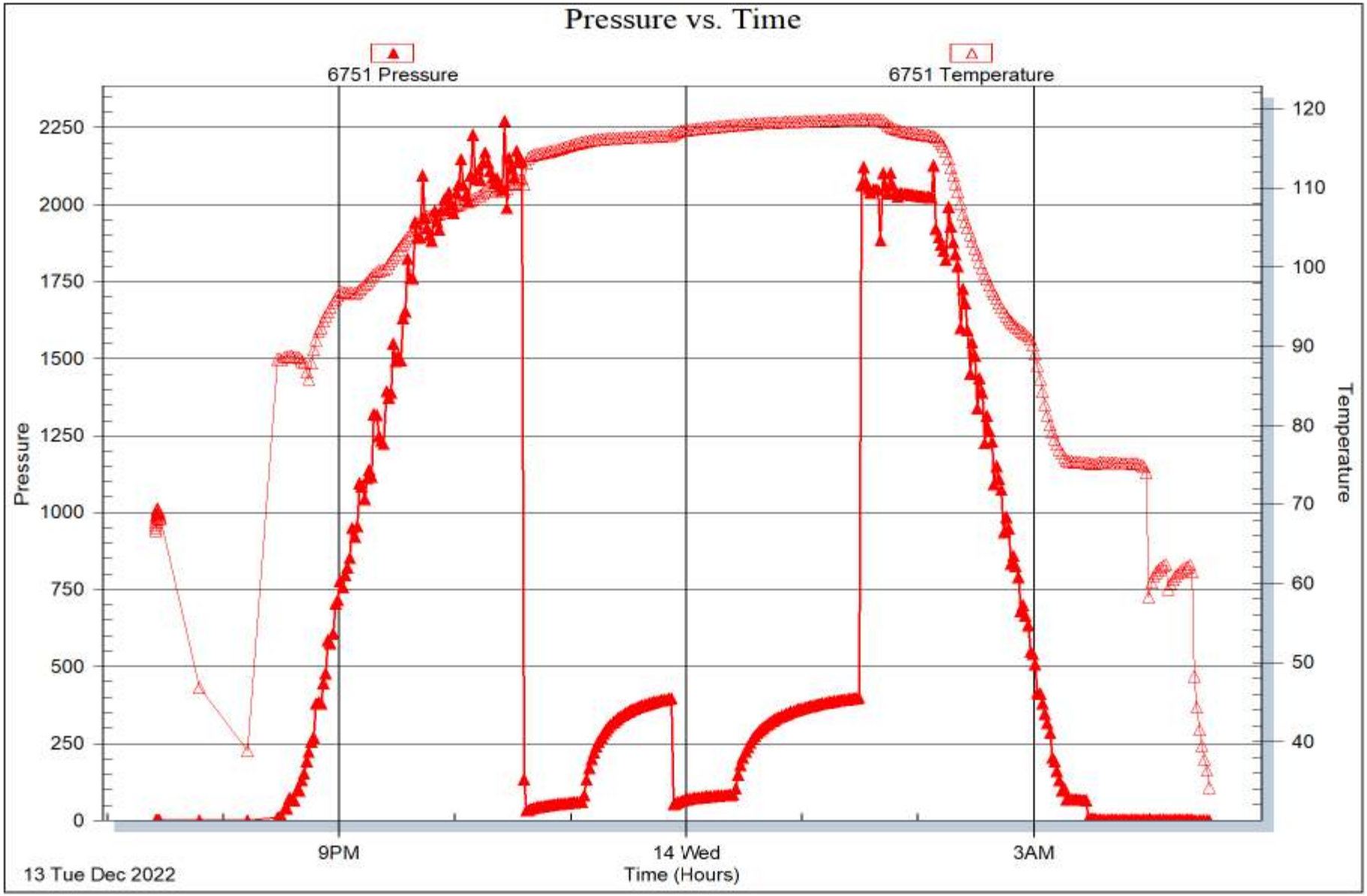
Recovery Comments: 300' GIP
RW=.235@45F=38,000ppm

Serial #: 8672 **Inside** N-10 Exploration, LLC Bertholf #C1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 69267 Printed: 2022.12.15 @ 10:40:10

Serial #: 6751 **Outside** N-10 Exploration, LLC Bertholf #C1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 69267 Printed: 2022.12.15 @ 10:40:10

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **N-10 Exploration, LLC**

PO Box 195
Attica, KS 67009

ATTN: Tim Pierce

Bertholf #C1

24-31s-9w Harper,KS

Start Date: 2022.12.14 @ 13:50:00
End Date: 2022.12.14 @ 21:56:02
Job Ticket #: 69268 DST #: 2

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

Printed: 2022.12.15 @ 10:39:32

DRILL STEM TEST REPORT

N-10 Exploration, LLC

PO Box 195
Attica, KS 67009

ATTN: Tim Pierce

24-31s-9w Harper,KS

Bertholf #C1

Job Ticket: 69268 **DST#: 2**

Test Start: 2022.12.14 @ 13:50:00

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:05:17
Time Test Ended: 21:56:02

Test Type: Conventional Bottom Hole (Initial)
Tester: Chris Hagman
Unit No: 69

Interval: 4401.00 ft (KB) To 4421.00 ft (KB) (TVD)
Total Depth: 4421.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

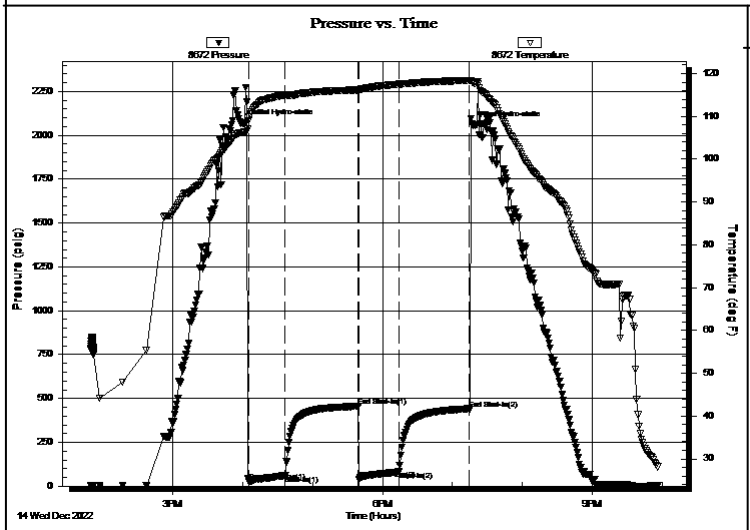
Reference Elevations: 1607.00 ft (KB)
1595.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8672 **Inside**

Press@RunDepth: 82.13 psig @ 4403.00 ft (KB)
Start Date: 2022.12.14 End Date: 2022.12.14
Start Time: 13:50:01 End Time: 21:56:02

Capacity: psig
Last Calib.: 1899.12.30
Time On Btm: 2022.12.14 @ 16:01:47
Time Off Btm: 2022.12.14 @ 19:17:17

TEST COMMENT: IF: 30 min., BOB 2 min., strong building blow , 163 inches
ISI: 60 min., no blow back
FF: 30 min., BOB ASAO, strong building blow , 197 inches
FSI: 60 min., no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2069.16	106.27	Initial Hydro-static
4	27.63	109.04	Open To Flow (1)
35	61.02	114.99	Shut-In(1)
98	454.39	116.16	End Shut-In(1)
98	36.32	116.17	Open To Flow (2)
133	82.13	117.50	Shut-In(2)
193	441.59	118.37	End Shut-In(2)
196	2054.45	117.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
165.00	oil cut muddy w ater 10%O, 60%W, 30%M	1.22

Gas Rates

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

DRILL STEM TEST REPORT

N-10 Exploration, LLC

PO Box 195
Attica, KS 67009

ATTN: Tim Pierce

24-31s-9w Harper,KS

Bertholf #C1

Job Ticket: 69268 **DST#: 2**

Test Start: 2022.12.14 @ 13:50:00

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:05:17
Time Test Ended: 21:56:02

Test Type: Conventional Bottom Hole (Initial)
Tester: Chris Hagman
Unit No: 69

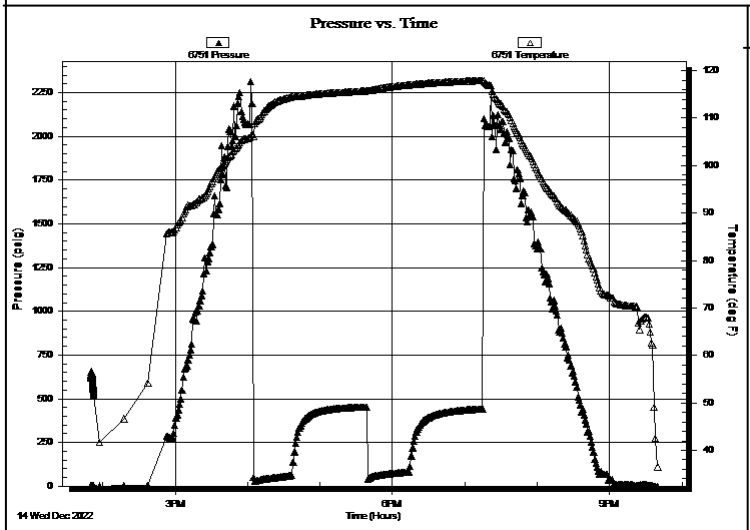
Interval: 4401.00 ft (KB) To 4421.00 ft (KB) (TVD)
Total Depth: 4421.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1607.00 ft (KB)
1595.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6751 **Outside**
Press@RunDepth: psig @ 4403.00 ft (KB)
Start Date: 2022.12.14 End Date: 2022.12.14
Start Time: 13:50:01 End Time: 21:39:47

Capacity: psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 30 min., BOB 2 min., strong building blow , 163 inches
ISI: 60 min., no blow back
FF: 30 min., BOB ASAO, strong building blow , 197 inches
FSI: 60 min., no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
165.00	oil cut muddy w ater 10%O, 60%W, 30%M	1.22

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

N-10 Exploration, LLC

PO Box 195
Attica, KS 67009

ATTN: Tim Pierce

24-31s-9w Harper,KS

Bertholf #C1

Job Ticket: 69268 **DST#: 2**

Test Start: 2022.12.14 @ 13:50:00

Tool Information

Drill Pipe:	Length:	4281.00 ft	Diameter:	3.80	inches	Volume:	60.05	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	120.00 ft	Diameter:	2.25	inches	Volume:	0.59	bbl	
						Total Volume:	60.64	bbl	

Drill Pipe Above KB:	25.00 ft
Depth to Top Packer:	4401.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	20.00 ft
Tool Length:	45.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2000.00 lb
Weight set on Packer:		20000.00 lb
Weight to Pull Loose:		75000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	59000.00 lb
	Final	59000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4381.00		
Hydraulic tool	5.00			4386.00		
Isolator Sub	3.00			4389.00		
Safety Joint	3.00			4392.00		
Packer	5.00			4397.00	25.00	Bottom Of Top Packer
Packer	4.00			4401.00		
Stubb	1.00			4402.00		
Perforations	1.00			4403.00		
Recorder	0.00	8672	Inside	4403.00		
Recorder	0.00	6751	Outside	4403.00		
Pickup sub perf	5.00			4408.00		
Perforations	10.00			4418.00		
Bullnose	3.00			4421.00	20.00	Bottom Packers & Anchor
Total Tool Length:	**45.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

N-10 Exploration, LLC

PO Box 195
Attica, KS 67009

ATTN: Tim Pierce

24-31s-9w Harper,KS

Bertholf #C1

Job Ticket: 69268 **DST#: 2**

Test Start: 2022.12.14 @ 13:50:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	29000 ppm
Viscosity:	74.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

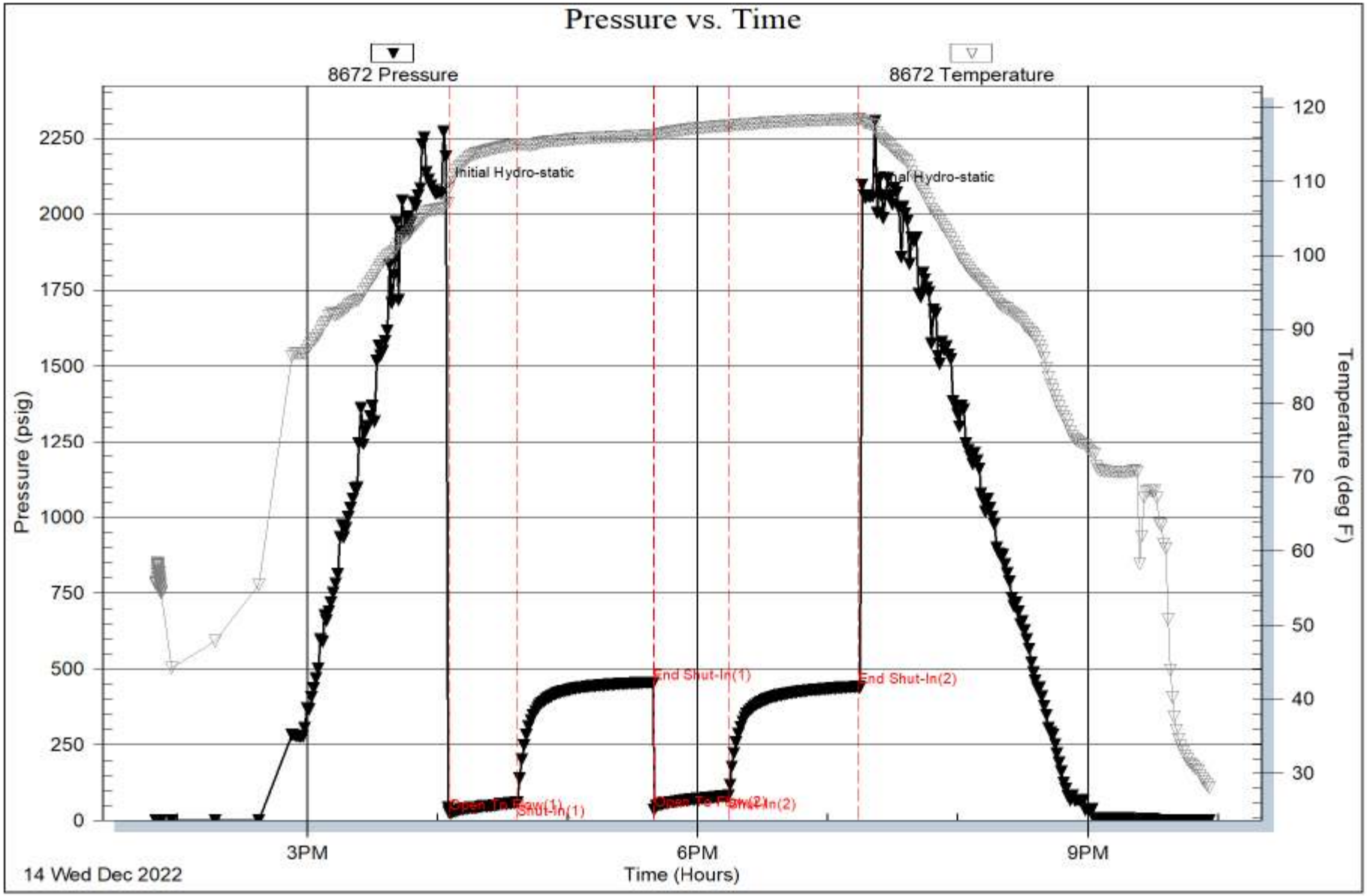
Length ft	Description	Volume bbl
165.00	oil cut muddy w ater 10%O, 60%W, 30%M	1.221

Total Length: 165.00 ft Total Volume: 1.221 bbl

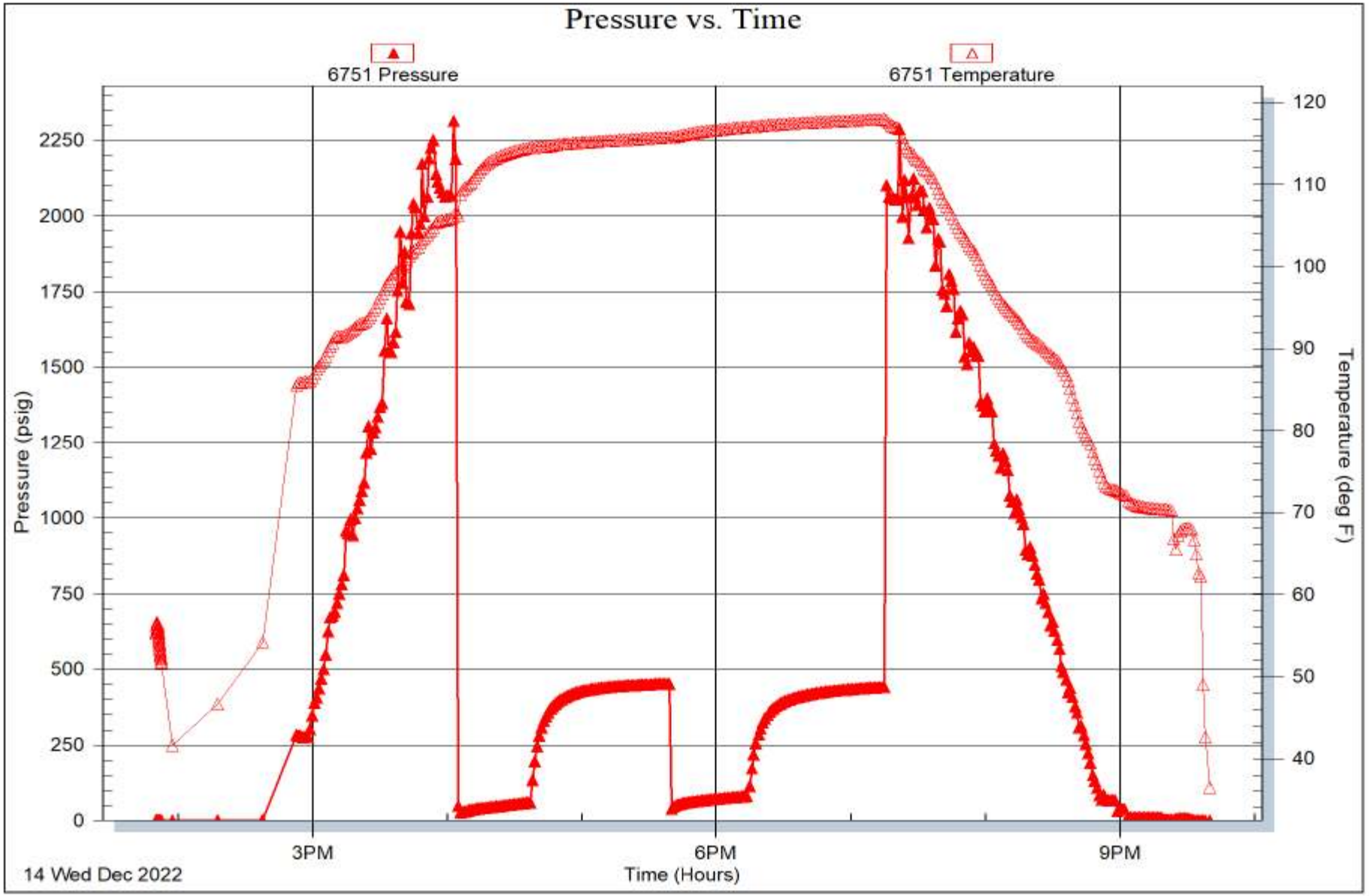
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW=.328@50F=29000ppm


Pressure vs. Time
8672 Pressure
8672 Temperature
Initial Hydro-static
End Shut-In(1)
End Shut-In(2)
Pressure (psig)
Temperature (deg F)
2250
2000
1750
1500
1250
1000
750
500
250
0
120
110
100
90
80
70
60
50
40
30
3PM
6PM
9PM
14 Wed Dec 2022
Time (Hours)

Serial #: 6751 **Outside** N-10 Exploration, LLC Bertholf #C1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 69268 Printed: 2022.12.15 @ 10:39:33

TRILOBITE TESTING INC.
1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69267

Well Name & No. Berthold C-1 Test No. 1 Date 12-13-22
Company D-10 Exploration, LLC Elevation [redacted]1607 KB 1595 GL
Address P.O. Box 195 Attica, KS 67009
Co. Rep / Geo. Tim Pierce Rig Fossil #3
Location: Sec. 24 Twp 31 Rge. 9 Co. Harper State KS

Interval Tested 4364-4386 Zone Tested Miss
Anchor Length 22 Drill Pipe Run 4244 Mud Wt. 9.3
Top Packer Depth 4359 Drill Collars Run 120 Vis 66
Bottom Packer Depth 4364 Wt. Pipe Run N.A. WL 8.0
Total Depth 4386 Chlorides 4500 ppm System LCM 4#

Blow Description IF: 30 min., BOB 1 min., Strong building blow, 134 inches
ISI: 45 min., no blow back
FP: 30 min., BOB 30 sec., Strong building blow, 154 inches
FSI: 45 min., no blow back

Rec 165	Feet of oil spotted grassy muddy water	5 %gas	Spot %oil	60 %water	35 %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of 300' GIP	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 165 BHT 119 Gravity ____ API RW .235 @ 45 °F Chlorides 38,000 ppm

(A) Initial Hydrostatic 2149	☒ Test CONV. 1950	T-On Location 1800
(B) First Initial Flow 37	☐ Jars	T-Started 2000
(C) First Final Flow 64	☒ Safety Joint	T-Open 2240
(D) Initial Shut-In 397	☐ Circ Sub	T-Pulled [redacted]0110
(E) Second Initial Flow 51	☐ Hourly Standby	T-Out 0430
(F) Second Final Flow 84	☒ Mileage 2 x 100 175	Comments 1925
(G) Final Shut-In 398	☐ Sampler	
(H) Final Hydrostatic 2088	☐ Straddle	☒ EM Tool good
	☐ Shale Packer	☐ Ruined Shale Packer
Initial Open 30	☐ Extra Packer	☐ Ruined Packer
Initial Shut-In 45	☐ Extra Recorder	☐ Extra Copies
Final Flow 30	☐ Day Standby	Sub Total 0
Final Shut-In 45	☐ Accessibility	Total 2125
	Sub Total 2125	MP/DST Disc't

Approved By ____ Our Representative Chris Hagman

785-656-3947

TRILOBITE TESTING INC.
1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket
NO. 69268

Well Name & No. Berthelf C-1 Test No. 2 Date 12-14-22
Company W-10 Exploration, LLC Elevation 1607 KB 1595 GL
Address P.O. Box 195 Attica, KS 67009
Co. Rep / Geo. Tim Pierce Rig Fossil #3
Location: Sec. 24 Twp 31 Rge. 9 Co. Harper State KS

Interval Tested 4401-4421 Zone Tested Miss.
Anchor Length 20 Drill Pipe Run 4287 Mud Wt. 9.3
Top Packer Depth 4396 Drill Collars Run 120 Vis 74
Bottom Packer Depth 4401 Wt. Pipe Run N.A. WL 8.0
Total Depth 4421 Chlorides 4000 ppm System LCM 5

Blow Description IF: 30 min., BOB 2 min., strong building blow, 163 inches
ISI: 60 min., no blow back
FP: 30 min., BOB ASAP, strong building blow, 197 inches
FSI: 60 min., no blow back

Rec 165	Feet of oil cut muddy water	%gas	10 %oil	60 %water	30 %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 165 BHT 118 Gravity ____ API RW .328 @ 50 °F Chlorides 29,000 ppm

(A) Initial Hydrostatic 2069	☒ Test conv. 1950	T-On Location 1345	
(B) First Initial Flow 28	☐ Jars	T-Started 1400	
(C) First Final Flow 61	☒ Safety Joint	T-Open 1610	
(D) Initial Shut-In 454	☐ Circ Sub	T-Pulled 1910	
(E) Second Initial Flow 36	☐ Hourly Standby	T-Out 2200	
(F) Second Final Flow 82	☒ Mileage x 100 175	Comments 1349	
(G) Final Shut-In 442	☐ Sampler		
(H) Final Hydrostatic 2054	☐ Straddle	☒ EM Tool good	
	☐ Shale Packer	☐ Ruined Shale Packer	
Initial Open 30	☐ Extra Packer	☐ Ruined Packer	
Initial Shut-In 60	☐ Extra Recorder	☐ Extra Copies	
Final Flow 30	☐ Day Standby	Sub Total 0	
Final Shut-In 60	☐ Accessibility	Total 2125	
	Sub Total 2125	MP/DST Disc't	

Approved By ____ Our Representative Chris Hagans

Trilobite Testing Inc. shall not be liable for damages 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.

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

Customer	N-10 Exploration,LLC	Lease & Well #	Bertholf C-1			Date	12/7/2022
Service District	Pratt Kansas	County & State	Harper.Kansas	Legals S/T/R	24-31s-09w	Job #	
Job Type	Surface	☑ PROD ☐ INJ ☐ SWD		New Well?	☑ YES ☐ No	Ticket #	wp 3709

Equipment #	Driver
916	M Brungardt
523/522	K Lesely
525/534	J Triveno

Job Safety Analysis - A Discussion of Hazards & Safety Procedures

☑ Hard hat	☑ Gloves	☐ Lockout/Tagout	☐ Warning Signs & Flagging
☑ H2S Monitor	☑ Eye Protection	☐ Required Permits	☐ Fall Protection
☑ Safety Footwear	☐ Respiratory Protection	☑ Slip/Trip/Fall Hazards	☐ Specific Job Sequence/Expectations
☑ FRC/Protective Clothing	☐ Additional Chemical/Acid PPE	☑ Overhead Hazards	☑ Muster Point/Medical Locations
☐ Hearing Protection	☐ Fire Extinguisher	☐ Additional concerns or issues noted below	

Comments

Product/ Service Code	Description	Unit of Measure	Quantity			Net Amount
cp070	60/40/2 Pozmix A	sack	200.00			$3,000.00
cp100	Calcium Chloride	lb	516.00			$387.00
cp120	Cello-flake	lb	50.00			$87.50
m015	Light Equipment Mileage	mi	50.00			$100.00
m010	Heavy Equipment Mileage	mi	100.00			$400.00
m020	Ton Mileage	tm	430.00			$645.00
c060	Cement Blending & Mixing Service	sack	200.00			$280.00
d010	Depth Charge: 0'-500'	job	1.00			$1,000.00
c035	Cement Data Acquisition	job	1.00			$250.00
r051	Service Supervisor	day	1.00			$275.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely

			Net:	$6,424.50
Total Taxable	$ -	Tax Rate:		
State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.			Sale Tax:	$ -
			Total:	$ 6,424.50

HSI Representative: *January 5, 1900*

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 ½% 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 fom 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 informaiton in determining taxable services.

x Gale Thompson

CUSTOMER AUTHORIZATION SIGNATURE

ftv: 15-2021/01/25
mplv: 339-2022/10/05

CEMENT TREATMENT REPORT

Customer:	N-10 Exploration,LLC	Well:	Bertholf C-1	Ticket:	wp 3709
City, State:	Zenda Kansas	County:	Harper.Kansas	Date:	12/7/2022
Field Rep:	Gale Thompson	S-T-R:	24-31s-09w	Service:	Surface

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	260 ft
Casing Size:	8 5/8 in
Casing Depth:	252 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	14.0 bbls

Calculated Slurry - Lead	
Blend:	60/40 2&3
Weight:	14.8 ppg
Water / Sx:	5.2 gal / sx
Yield:	1.21 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	43.0 bbls
Total Sacks:	200 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
4:20 PM			-	-	On location job and safety
4:30 PM				-	spot trucks and rig uo
				-	
				-	casing was on bottom on arrival
				-	
				-	
5:10 PM				-	start cement
	6.0	200.0	5.0	5.0	fresh water
	4.5	200.0	43.0	48.0	mix 200 sacks cement
5:25 PM				48.0	cement in and shut down
				48.0	
5:26 AM					start displacement
	3.0	150.0	14.0		pump displacement
5:30 PM					plug down
					circulated 5 bbls to the pit

	CREW	UNIT
Cementer:	M Brungardt	916
Pump Operator:	K Lesely	523/522
Bulk #1:	J Triveno	525/534
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.5 bpm	183 psi	62 bbls

ftv: 15-2021/01/25
mplv: 339-2022/10/05

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

Customer	N-10 Exploration LLC	Lease & Well #	Bertholf C-1	Date	12/17/2022
Service District	Pratt Kansa	County & State	Harper.Kansas	Legals S/T/R	24-31s-09w	Job #	
Job Type	Longstring	☑ PROD ☐ INJ ☐ SWD	New Well?	☑ YES ☐ No	Ticket #	wp 3750

Equipment #	Driver
916	M Brungardt
179/521	A Clifton
182/534	J Triveno

Job Safety Analysis - A Discussion of Hazards & Safety Procedures

☑ Hard hat	☑ Gloves	☐ Lockout/Tagout	☐ Warning Signs & Flagging
☑ H2S Monitor	☑ Eye Protection	☐ Required Permits	☐ Fall Protection
☑ Safety Footwear	☐ Respiratory Protection	☑ Slip/Trip/Fall Hazards	☐ Specific Job Sequence/Expectations
☐ FRC/Protective Clothing	☐ Additional Chemical/Acid PPE	☑ Overhead Hazards	☑ Muster Point/Medical Locations
☐ Hearing Protection	☐ Fire Extinguisher	☐ Additional concerns or issues noted below	

Comments

Product/ Service Code	Description	Unit of Measure	Quantity			Net Amount
cp030	H-Long	sack	150.00			$5,250.00
cp055	H-Plug A	sack	50.00			$700.00
cp120	Cello-flake	lb	39.00			$68.25
fe145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00			$375.00
fe170	5 1/2" Latch Down Plug & Baffle	ea	1.00			$350.00
fe130	5 1/2" Cement Basket	ea	1.00			$300.00
fe135	5 1/2 Turbolizer	ea	8.00			$1,000.00
c025	waiting time	hr	5.00			$875.00
af056	Liquid KCL Substitute 2	gal	5.00			$100.00
m015	Light Equipment Mileage	mi	50.00			$100.00
m010	Heavy Equipment Mileage	mi	100.00			$400.00
m020	Ton Mileage	tm	458.00			$687.00
c060	Cement Blending & Mixing Service	sack	200.00			$280.00
d015	Depth Charge: 4001'-5000'	job	1.00			$2,500.00
c035	Cement Data Acquisition	job	1.00			$250.00
c050	Cement Plug Container	job	1.00			$250.00
r061	Service Supervisor	day	1.00			$275.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely

Total Taxable	$ -	Tax Rate:		Net:	$13,760.25
State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.				Sale Tax:	$ -
				Total:	$ 13,760.25

HSI Representative: *Mark Brungardt*

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 ½% 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 fom 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 informaiton in determining taxable services.

X _____ CUSTOMER AUTHORIZATION SIGNATURE

ftv: 15-2021/01/25
mplv: 339-2022/10/05

CEMENT TREATMENT REPORT

Customer:	N-10 Exploration LLC	Well:	Berthoff C-1	Ticket:	wp 3750
City, State:	Zenda Kansas	County:	Harper.Kansas	Date:	12/17/2022
Field Rep:	Tim Pierce	S-T-R:	24-31s-09w	Service:	Longstring

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	4600 ft
Casing Size:	5 1/2 in
Casing Depth:	4582 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	110.5 bbls

Calculated Slurry - Lead	
Blend:	H-Long
Weight:	15.0 ppg
Water / Sx:	6.0 gal / sx
Yield:	1.42 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	38.0 bbls
Total Sacks:	150 sx

Calculated Slurry - Tail	
Blend:	H-Plug
Weight:	13.7 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.43 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	12.7 bbls
Total Sacks:	50 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
6:00 PM			-	-	on location job and safety
7:00 PM				-	spot trucks and rig up
				-	turbolizers 2 5 7 9 11 13 15 17
				-	basket 8
				-	
10:35 PM				-	start casing in the hole
12:55 PM				-	casing on bottom and circulate
				-	
2:30 AM	2.0	-	12.7	12.7	plug rat hole 30 sacks and mouse hole 20 sacks
2:35 AM				12.7	start cement
	5.5	300.0	6.0	18.7	25 sacks scavenger
	5.5	300.0	38.0		mix 150 sacks cement
2:50 AM					cement in and shut down
					wash pump and lines and release the plug
2:55 AM					start displacement
	5.0	80.0	30.0		
	5.0	80.0	50.0		
	5.0	270.0	80.0		
	5.0	470.0	90.0		
	4.0	650.0	100.0		
	4.0	850.0	110.0		
3:20 AM	4.0	850.0	110.5		plug down,,,,,,took pressure from 850 to 1500
					float did hold

CREW		UNIT
Cementer:	M Brungardt	916
Pump Operator:	A Clifton	179/521
Bulk #1:	J Triveno	182/534
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.5 bpm	385 psi	627 bbls

ftv: 15-2021/01/25
mplv: 339-2022/10/05

N003

SPS STIMULATION PUMPING SERVICES, LLC

P.O. Box 758
Blackwell, OK 74631

Customer:	**N-10 Exploration LLC**	**Well Name:**	**Bertholf C-1**				
		Legals	Sec 21 - T31S - 9W			**Field Ticket #:**	AD012723
Address:		**County:**	Harper				
City, State, Zip:		**State:**	Kansas			**Service District:**	Cushing
Date:	Friday, January 27, 2023	**Job Type:**	20 Tank lick Water Frac			**Salesman:**	Josh Mcollom

Product Code	Product Description	Unit of Measure	Quantity	List Price/Unit	Gross Amount	Item Discount	Net Amount
503.02	LB-1 - Liquid Biocide	gal(s)	96	$68.00	$6,528.00	62.00%	$2,480.64
503.55	LBC- 2 - SP-680	gal(s)	94	$30.00	$2,820.00	62.00%	$1,071.60
519.11	PSC Frac1 Advanced BioCatalytics Surfactant	gal(s)	183	$86.00	$15,738.00	62.00%	$5,980.44
508.01	FRA-1 - Friction Reducer - (anionic)	gal(s)	113	$70.00	$7,910.00	62.00%	$3,005.80
510.02	PB-1 - FR Breaker	gal(s)	68	$36.00	$2,448.00	62.00%	$930.24
504.14	KCL-LC - Liquid KCL Equivalent Concentrate (76%)	gal(s)	184	$110.00	$20,240.00	62.00%	$7,691.20
433.03	PropCure XA Component	gal(s)	17	$275.20	$4,678.40	62.00%	$1,777.79
433.04	PropCure XB Component	gal(s)	8	$322.40	$2,579.20	62.00%	$980.10
514.03	MBE - Mutual Solvent	gal(s)	20	$106.00	$2,120.00	62.00%	$805.60
432.01	100 Mesh Sand - Local	lb(s)	30080	$0.52	$15,641.60	62.00%	$5,943.81
432.11	40/70 Premium Sand - Local	lb(s)	125640	$0.44	$55,281.60	62.00%	$21,007.01
432.03	16/30 Brady	lb(s)	47640	$0.77	$36,682.80	62.00%	$13,939.46
200.01	Equipment Mileage - Light Equipment	mile(s)	95	$3.25	$308.75	62.00%	$117.33
200.02	Equipment Mileage - Heavy Equipment	mile(s)	1615	$8.50	$13,727.50	62.00%	$5,216.45
418.07	61 - 70 bpm Blender - 1st 2 hrs.	unit(s)	1	$5,000.00	$5,000.00	62.00%	$1,900.00
419.07	61 - 70 bpm Blender - Over 2 hrs.	hour(s)	1	$2,500.00	$2,500.00	62.00%	$950.00
421.01	Blending Services	unit(s)	1	$1,800.00	$1,800.00	62.00%	$684.00
410.07	Frac Pump Services - 61-70 BPM (First 2 Hours)	per job	1	$70,000.00	$70,000.00	62.00%	$26,600.00
410.27	Frac Pump Services - 61-70 BPM (Over 2 Hours)	hour(s)	1	$35,000.00	$35,000.00	62.00%	$13,300.00
435.03	Computer Data Accumalator/Satellite Relay Capable	unit(s)	1	$2,500.00	$2,500.00	62.00%	$950.00
210.03	Chemical Delivery - First 4 hours	unit(s)	1	$1,500.00	$1,500.00	62.00%	$570.00
421.03	Computerized Liquid Additives Unit	unit(s)	1	$2,500.00	$2,500.00	62.00%	$950.00
436.01	Line Truck (Frac Line) & Well Connection Unit	unit(s)	1	$2,500.00	$2,500.00	62.00%	$950.00
438.01	Discharge Manifold Trailer	unit(s)	1	$2,500.00	$2,500.00	62.00%	$950.00
428.01	Sandmaster - Portable Storage & Delivery System	unit(s)	1	$3,000.00	$3,000.00	62.00%	$1,140.00
401.01	Proppant Delivery Charge	ton mile	9500	$2.20	$20,900.00	62.00%	$7,942.00
429.01	Proppant Pump Charge - 20/40 or Smaller	per cwt.	1540	$0.55	$847.00	62.00%	$321.86
429.02	Proppant Pump Charge - 16/30 or Larger	per cwt.	460	$0.90	$414.00	62.00%	$157.32
433.01	PropCure Service Charge	ea	1	$3,000.00	$3,000.00	62.00%	$1,140.00
441.02	QC Services with Fluid Tech - First 8 hours	per job	1	$1,800.00	$1,800.00	62.00%	$684.00

Cost Estimate Before Applicable Local, County, and State Taxes Are Applied:	Gross:	$342,464.85	Net: $130,136.64

Applicable Local, County, and State Taxes (Office Use Only):

Total Invoiced Price (Office Use Only):

TERMS: Cash in advance unless SPS, LLC 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 may pay interest on the balance past due at the rate of 1 ½% per month or the maximum allowable by applicable state or federal laws if such laws limit interest to a lower amount. In the event it is necessary to employ an agency and/or attorney to effect the collection of said account, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with SPS, LLC becomes delinquent, SPS, LLC has the right to revoke any and all discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount will become immediately due and owing and subject to collection.

CUSTOMER AUTHORIZED AGENT

Customer Representative:	Dustin Newberry
SPS Representative:	Jack O'Kelley
Date:	1/27/2023

SERVICE ORDER: I AGREE THAT SERVICE ACCORDANCE WITH TERMS AND CONDITIONS (INCLUDING INDEMNIFICATION OBLIGATIONS) LISTED HERE OR IN THE CUSTOMER CONTRACT FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.

N

SPS

Customer:	N-10 Exploration LLC		SR No.:	AD012723	Date: 1/27/2023
Well Name:	Bertholf C-1		Field:	0	Well Type: Producer
County:	Harper	State: Kansas	Stage:	1	Max PSI: 3000
Type of Job:	20 Tank Slick Water Frac		Treater:	Aaron Duncan	Formation: Mississippi

EVENT # Substage	Event/Start Date & Time (in 24 Hr Format)	Event Type	Event Description	Wellhead Pressure	Clean Volume	Fluid	Proppant	Prop Conc.	Prop Volume	Slurry Volume	CLEAN RATE	SLURRY RATE	TOTAL
1	8:27:00 AM	PT	PSI TEST	6,780									
2	8:33:00 AM	OWH	OPEN WELL	10									
3	8:33:00 AM	PAD	PAD	1,290	467.8	SLIKWTR				468.7	70.8	70.1	469
4	8:43:00 AM	SAND	100 MESH SAND	990	611.8	SLIKWTR	100 Mesh	0.50	10,050	618.0	69.0	70.3	1,087
5	8:52:00 AM	PAD	SPACER	980	180.4	SLIKWTR				179.3	70.7	70.3	1,266
6	8:55:00 AM	SAND	100 MESH SAND	960	408.4	SLIKWTR	100 Mesh	1.00	17,880	423.8	67.6	70.0	1,690
7	9:01:00 AM	PAD	SPACER	1,000	190.3	SLIKWTR				189.7	70.9	70.3	1,879
8	9:04:00 AM	SAND	40/70 PREMIUM	1,040	711.7	SLIKWTR	40/70	0.10	2,990	709.9	70.6	70.3	2,589
9	9:13:00 AM	SAND	40/70 PREMIUM	1,050	632.0	SLIKWTR	40/70	0.20	5,590	633.6	70.1	70.3	3,223
10	9:22:00 AM	SAND	40/70 PREMIUM	940	643.2	SLIKWTR	40/70	0.30	8,450	647.4	69.4	70.1	3,870
11	9:32:00 AM	SAND	40/70 PREMIUM	1,090	547.0	SLIKWTR	40/70	0.40	9,600	553.0	69.5	70.1	4,423
12	9:39:00 AM	SAND	40/70 PREMIUM	990	551.0	SLIKWTR	40/70	0.50	12,050	559.6	68.9	70.0	4,983
13	9:47:00 AM	SAND	40/70 PREMIUM	980	551.0	SLIKWTR	40/70	0.60	14,470	562.0	68.5	69.8	5,545
14	9:55:00 AM	SAND	40/70 PREMIUM	1,000	552.2	SLIKWTR	40/70	0.70	16,870	565.7	68.3	70.0	6,111
15	10:03:00 AM	SAND	40/70 PREMIUM	1,020	503.7	SLIKWTR	40/70	0.80	17,640	518.2	67.8	69.8	6,629
16	10:11:00 AM	SAND	40/70 PREMIUM	1,050	491.6	SLIKWTR	40/70	0.90	19,360	507.8	67.6	69.6	7,173
17	10:18:00 AM	SAND	40/70 PREMIUM	1,090	376.7	SLIKWTR	40/70	1.00	16,440	390.7	66.9	70.0	7,527
18	10:23:00 AM	PAD	SPACER	1,130	159.3	SLIKWTR				158.2	70.3	69.7	7,686
19	10:26:00 AM	SAND	16/30 BRADY SAND	1,070	226.3	SLIKWTR	16/30	0.80	7,970	232.5	67.7	69.1	7,918
20	10:29:00 AM	SAND	16/30 BRADY SAND	1,060	207.0	SLIKWTR	16/30	1.00	9,010	214.7	66.9	69.3	8,133
21	10:32:00 AM	SAND	16/30 BRADY SAND	1,060	183.2	SLIKWTR	16/30	1.25	9,940	192.1	66.4	69.4	8,325
22	10:35:00 AM	PAD	SPACER	1,150	186.8	SLIKWTR				185.7	70.0	69.6	8,511
23	10:38:00 AM	SAND	16/30 BRADY SAND	1,100	94.1	SLIKWTR	16/30	1.50	6,220	996.0	65.2	68.7	8,610
24	10:39:00 AM	SAND	16/30 w/Liq Resin	1,200	47.7	SLIKWTR	16/30	1.50	3,120	50.6	65.5	69.1	8,661
25	10:40:00 AM	SAND	16/30 w/Liq Resin	2,010	125.6	SLIKWTR	16/30	2.00	10,990	135.8	63.3	38.5	8,797
26	10:42:00 AM	FLUSH	FLUSH	1,750	147.2	SLIKWTR				143.4	69.0	69.0	8,940
27	10:43:00 AM	ISIP	SHUTDOWN	450									

FLUID ADDITIVES

Chemical Name	Design	Used
LB-1	95	96
LBC-2	95	94
PSC FRAC1	189	183
FR	114	113
PB-1	76	68
KCL	189	184
Propcure XA	20	17
Propcure XB	9	8
0		
0		
0		
0		

PROPPANT DESCRIPTION

PROP	Design	Used
100 Mesh	30,000	27,930
40/70	124,000	123,460
16/30	46,000	47,250
0		
0		
0		

SHUT-IN PRESSURES

ISIP	450
5 Min	140
10 Min	0
15 Min	

PROPPANT VOLUMES

Conc.	Size	lbs	BBLS
.5/1	100 Mesh	27,930	1,020
.1/.2	40/70	8,580	2,090
.3/.4	40/70	18,050	1,190
.5/.6	40/70	26,520	1,102
.7/.8	40/70	34,510	1,056
.9/1	40/70	35,800	434
0.80	16/30	7,970	226
1.00	16/30	9,010	207
1.25	16/30	9,940	183
1.50	16/30	6,220	94
1.50	16/30	3,120	48
2.00	16/30	10,990	126

Rate and PSI		
Ave Rate	68.5	
Max Rate	70.4	
Pad Rate	70.0	
Sand Rate	69.9	
Flush Rate	69.0	
Ave PSI	1,125.0	
Max PSI	2,120.0	
PSI Pad	1,290.0	
PSI Sand	1,100.0	
PSI Flush	1,750.0	
Break Rate	30.0	
Break Psi	1,520.0	
SS PSI		

FLUID TYPE AND VOLUME

Fluid type	Design	Used
SlikWtr	9,000.0	8,940.0
0		
0		
0		
0		
0		
0		
0		
0		
0		
0	PSI	BBLS
0		

CASING & TUBULAR DATA

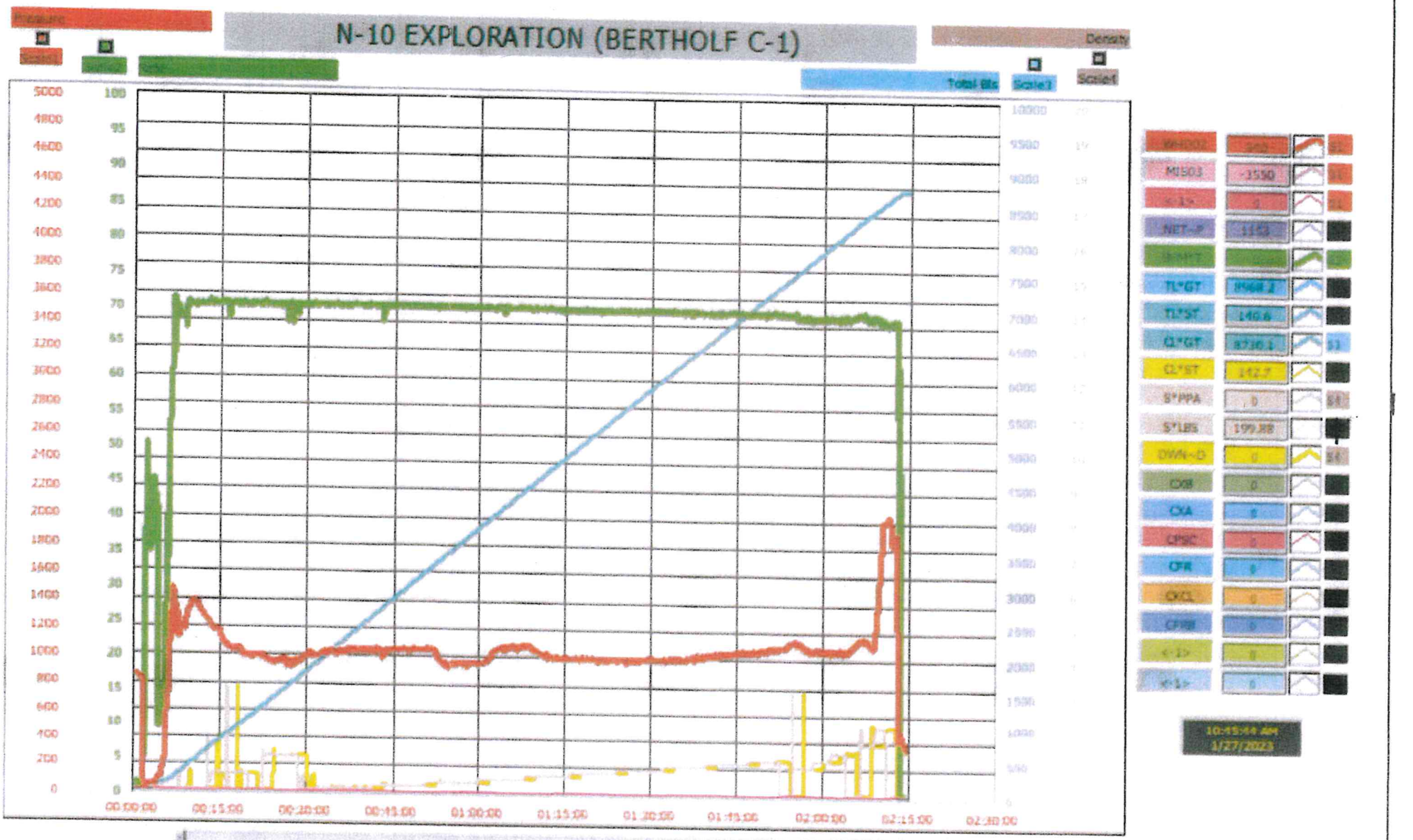
Tubular	Size	Wt	Grade	Top	Bottom	Capacity
Tubing						
Casing	5 1/2	15.5		4,386	4,429	105

Comments

CREW ON LOCATION

ADAM,JACK,AARON,NATE,ERIK,TRAVIS,KP,DYLAN,MIKE,DONALD,LAMARK,LAMARR,TROY,BOB,
LYLE,TJ,CHRIS,LADEAN,TYLER,COWBOY

Printed on 1/27/2023 at 10:45 AM



C:\Users\SPS\Desktop\well bore\N-10 EXPLORATION (BERTHOLF C-1).job
Fri Jan 27, 2023

TVD	Vrt Vol	Tot Lng	Tot Vol	Sur Vol
4429.00	105.421	4429.02	105.421	20.00

TIME	PPA	--- PRES --- STP	HYD P	-- CLEAN -- BPM	TOTAL	-- DIRTY -- BPM	TOTAL	SAND TOTAL
08:33:00 S	0.00	870	1920	0.00	0	0.00	0	0.0
08:38:53 F	0.00	940	1920	29.28	125	45.98	126	0.0
08:43:54 S	0.50	1370	1920	70.85	468	70.15	469	0.6
08:45:41 F	0.50	1240	1920	70.89	594	70.29	594	0.6
08:52:38 S	0.00	990	1990	69.08	1080	70.32	1087	10.7
08:54:25 F	0.00	1000	1921	70.97	1206	70.35	1212	10.7
08:55:10 S	1.00	980	1920	70.72	1260	70.34	1266	10.7
08:56:56 F	1.00	940	2055	67.72	1381	70.40	1391	16.0
09:01:10 S	0.00	960	2057	67.62	1668	70.01	1690	28.6
09:02:57 F	0.00	1010	1937	70.89	1794	70.41	1815	29.1
09:03:51 S	0.10	1000	1929	70.98	1859	70.37	1879	29.1
09:05:38 F	0.10	1020	1928	70.43	1985	70.45	2005	29.5
09:13:53 S	0.20	1040	1934	70.62	2570	70.35	2589	32.1
09:15:40 F	0.20	1010	1949	69.32	2697	70.21	2716	33.2
09:22:50 S	0.30	1050	1948	70.15	3202	70.33	3223	37.7
09:24:37 F	0.30	1020	1961	69.87	3328	70.11	3349	39.3
09:32:00 S	0.40	940	1962	69.49	3845	70.17	3870	46.1
09:33:47 F	0.40	990	1976	69.49	3971	70.26	3997	48.3
09:39:49 S	0.50	1090	1976	69.50	4392	70.17	4423	55.7
09:41:36 F	0.50	1060	1989	68.90	4516	70.25	4549	58.4
09:47:45 S	0.60	990	1990	68.92	4943	70.07	4983	67.8
09:49:32 F	0.60	1000	2003	68.50	5067	70.06	5108	71.0
09:55:44 S	0.70	980	2004	68.52	5495	69.89	5545	82.2
09:57:31 F	0.70	980	2016	68.40	5618	69.99	5671	86.0
10:03:46 S	0.80	1000	2017	68.39	6047	70.06	6111	99.1
10:05:33 F	0.80	1000	2030	68.09	6169	70.00	6237	103.4
10:11:08 S	0.90	1020	2030	67.88	6550	69.83	6629	116.8
10:12:56 F	0.90	1030	2043	67.71	6673	69.97	6755	121.5
10:18:22 S	1.00	1050	2044	67.67	7042	69.68	7137	136.1
10:20:09 F	1.00	1050	2056	67.21	7163	69.71	7262	141.4
10:23:55 S	0.00	1090	2057	66.95	7419	70.00	7527	152.6
10:25:43 F	0.00	1120	1922	70.29	7545	69.76	7653	152.6
10:26:10 S	0.80	1130	1920	70.31	7578	69.78	7686	152.6
10:27:59 F	0.80	1090	2031	67.30	7701	69.35	7811	156.9
10:29:30 S	1.00	1070	2031	67.79	7804	69.15	7918	160.5
10:31:19 F	1.00	1070	2055	65.95	7926	69.00	8045	165.8
10:32:35 S	1.25	1060	2057	66.94	8011	69.32	8133	169.5
10:34:24 F	1.25	1070	2088	66.11	8132	69.25	8259	176.1
10:35:21 S	0.00	1060	2089	66.42	8195	69.41	8325	179.5
10:37:08 F	0.00	1140	1923	70.22	8321	69.74	8451	179.5
10:38:00 S	1.50	1150	1920	70.09	8381	69.60	8511	179.5

---------- LEGEND ----------
S = Start F = Formation E = Event

PPA	--- STAGE TOTALS --- CLEAN	DIRTY	SAND
0.00	0.0	0.0	0.00
0.00	467.8	468.7	0.64
0.50	611.8	618.0	10.05
0.00	180.4	179.3	0.01
1.00	408.4	423.8	17.88
0.00	190.3	189.7	0.51
0.10	711.7	709.9	2.99
0.20	632.0	633.6	5.59
0.30	643.2	647.4	8.45
0.40	547.0	553.0	9.60
0.50	551.0	559.6	12.05
0.60	551.0	562.0	14.47
0.70	552.2	565.7	16.87
0.80	503.7	518.2	17.64
0.90	491.6	507.8	19.36
1.00	376.7	390.7	16.44
0.00	159.3	158.2	0.01
0.80	226.3	232.5	7.97
1.00	207.0	214.7	9.01
1.25	183.2	192.1	9.94
0.00	186.8	185.7	0.05

10:39:25	S	1.50	1100	2073	65.26	8476	68.76	8610	185.8			
10:39:48	F	1.50	1100	2122	65.39	8501	69.21	8637	187.4	1.50	94.1	99.6	6.22
10:40:09	S	2.00	1200	2121	65.54	8523	69.11	8661	188.9				
10:41:14	F	1.50	1860	2151	63.47	8593	69.01	8736	195.0	1.50	47.7	50.6	3.12
10:41:58	F	2.00	2010	2181	63.64	8640	68.43	8786	199.0				
10:42:06	S	0.00	2010	2183	63.39	8649	68.52	8797	199.9				
10:43:56	F	0.00	1560	1922	67.99	8776	60.22	8923	199.9	2.00	125.6	135.8	10.99