

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	T-BONE 1-31
Doc ID	1681708

All Electric Logs Run

DI Log
Comp Den Neutron PE Log
Sonic Log
Micro Log

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	T-BONE 1-31
Doc ID	1681708

Tops

Name	Top	Datum
Stone Corral	2131	631
Bs/Stone Corral	2161	601
Stotler	3555	-793
Heebner	3956	-1194
Toronto	3975	-1213
Douglas	3990	-1228
Lansing	3997	-1235
Bonner Springs	4073	-1311
Muncie Crk	4176	-1414
Drum	4189	-1427
Westerville	4229	-1467
Dennis	4255	-1493
Stark	4277	-1515
Swope	4290	-1528
Hushpuckney	4316	1554
Hertha	4332	-1570
Bs/KC	4362	-1600
Marmaton	4381	-1619
Anna	4474	-1712
Little Osage	4497	-1735
Excello	4521	-1759
Johnson	4590	1828
BPL	4602	-1840
Mississippian	4655	1893

Form	ACO1 - Well Completion
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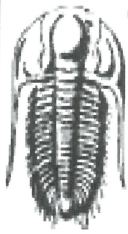
Tops

Name	Top	Datum
St Louis	4655	1893
Spergen	4675	1913
LTD	4729	0

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	T-BONE 1-31
Doc ID	1681708

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	220	H325	165	3%CC, 2%Gel



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Company

31-18s-28w Lane KS

1700 N Waterfront Pkwy
Bldg 600
Wichita KS 67206+5514
ATTN: Garet Dinkel

T-Bone #1-31

Job Ticket: 70022

DST#: 1

Test Start: 2023.01.15 @ 01:50:00

GENERAL INFORMATION:

Formation: **Hertha & Pleasanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:53:37

Time Test Ended: 09:47:07

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J Staab

Unit No: 84

Interval: **4274.00 ft (KB) To 4384.00 ft (KB) (TVD)**

Total Depth: 4384.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2762.00 ft (KB)

2755.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8875

Inside

Press@RunDepth: 473.57 psig @ 4277.00 ft (KB)

Start Date: 2023.01.15

End Date:

2023.01.15

Capacity: psig

Last Calib.: 2023.01.15

Start Time: 01:50:01

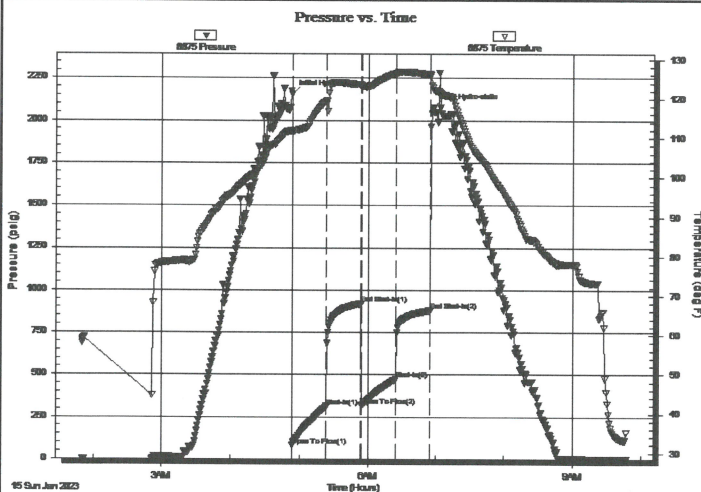
End Time:

09:47:07

Time On Btm: 2023.01.15 @ 04:53:22

Time Off Btm: 2023.01.15 @ 06:57:17

TEST COMMENT: 30-IF-BOB 9 mins Built to 40.5"
30-ISI-No Return
30-FF-BOB 8 mins Built to 32"
30-FSI-No Return



PRESSURE SUMMARY

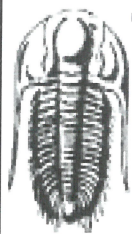
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2155.71	112.07	Initial Hydro-static
1	80.46	111.43	Open To Flow (1)
30	312.03	119.58	Shut-In(1)
61	918.34	123.47	End Shut-In(1)
61	316.95	123.36	Open To Flow (2)
92	473.57	126.44	Shut-In(2)
122	877.51	126.16	End Shut-In(2)
124	2078.61	122.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
580.00	MCW 10%M 90%W	7.08
240.00	WCM 30%W 70%M	3.40

Gas Rates

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

DRILL STEM TEST REPORT

Grand Mesa Operating Company

31-18s-28w Lane KS

1700 N Waterfront Pkwy
Bldg 600
Wichita KS 67206+5514
ATTN: Garett Dinkel

T-Bone #1-31

Job Ticket: 70022

DST#: 1

Test Start: 2023.01.15 @ 01:50:00

GENERAL INFORMATION:

Formation: **Hertha & Pleasanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:53:37

Time Test Ended: 09:47:07

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J Staab

Unit No: 84

Interval: **4274.00 ft (KB) To 4384.00 ft (KB) (TVD)**

Total Depth: 4384.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2762.00 ft (KB)

2755.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6838

Inside

Press@RunDepth: psig @ 4277.00 ft (KB)

Start Date: 2023.01.15

End Date:

2023.01.15

Capacity:

psig

Start Time: 01:50:01

End Time:

09:47:07

Last Calib.:

2023.01.15

Time On Btm:

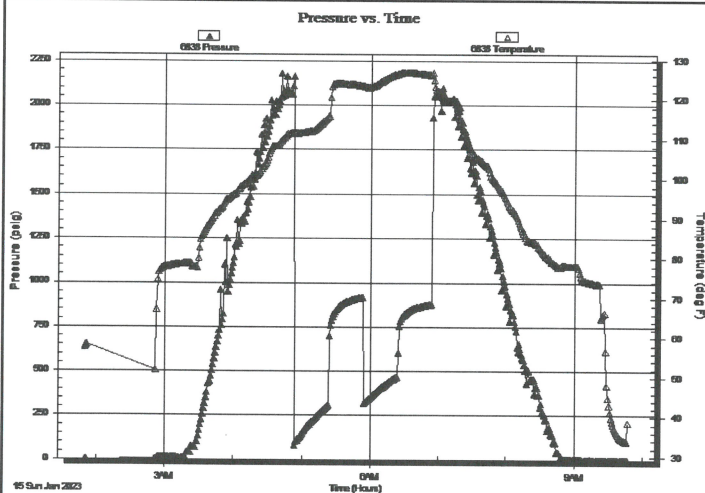
Time Off Btm:

TEST COMMENT: 30-IF-BOB 9 mins Built to 40.5"

30-IS-No Return

30-FF-BOB 8 mins Built to 32"

30-FSI-No Return



PRESSURE SUMMARY

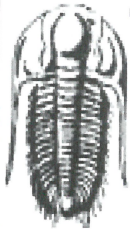
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
580.00	MCW 10%M 90%W	7.08
240.00	WCM 30%W 70%M	3.40

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Company

31-18s-28w Lane KS

1700 N Waterfront Pkwy
Bldg 600
Wichita KS 67206+5514
ATTN: Garett Dinkel

T-Bone #1-31

Job Ticket: 70022

DST#: 1

Test Start: 2023.01.15 @ 01:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 57.00 sec/qt

Water Loss: 7.20 in³

Resistivity: ohm.m

Salinity: 2200.00 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: 82000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
580.00	MCW 10%M 90%W	7.083
240.00	WCM 30%W 70%M	3.402

Total Length: 820.00 ft Total Volume: 10.485 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

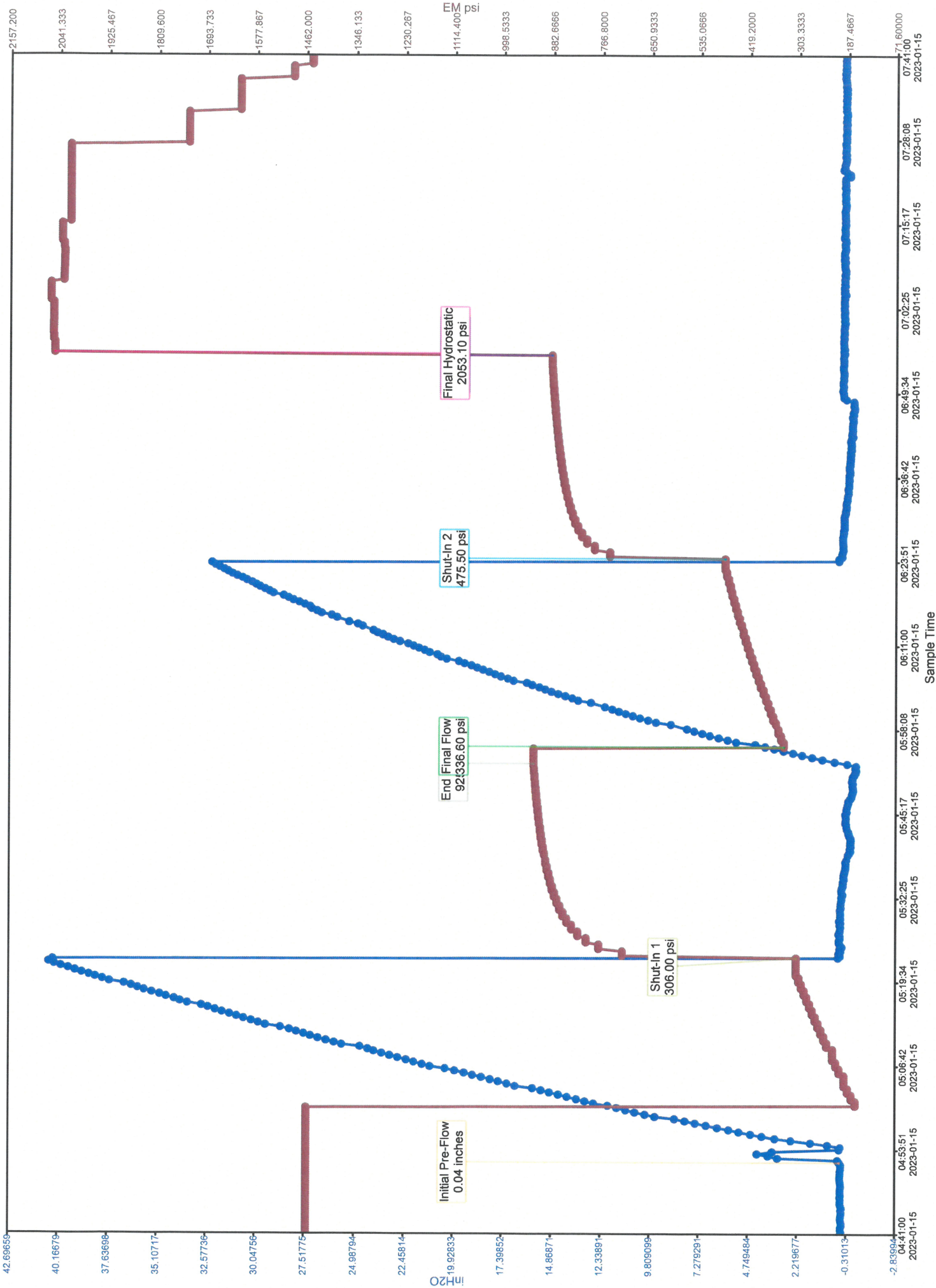
Laboratory Name:

Laboratory Location:

Recovery Comments: 3#LCM

RW=.265@26F

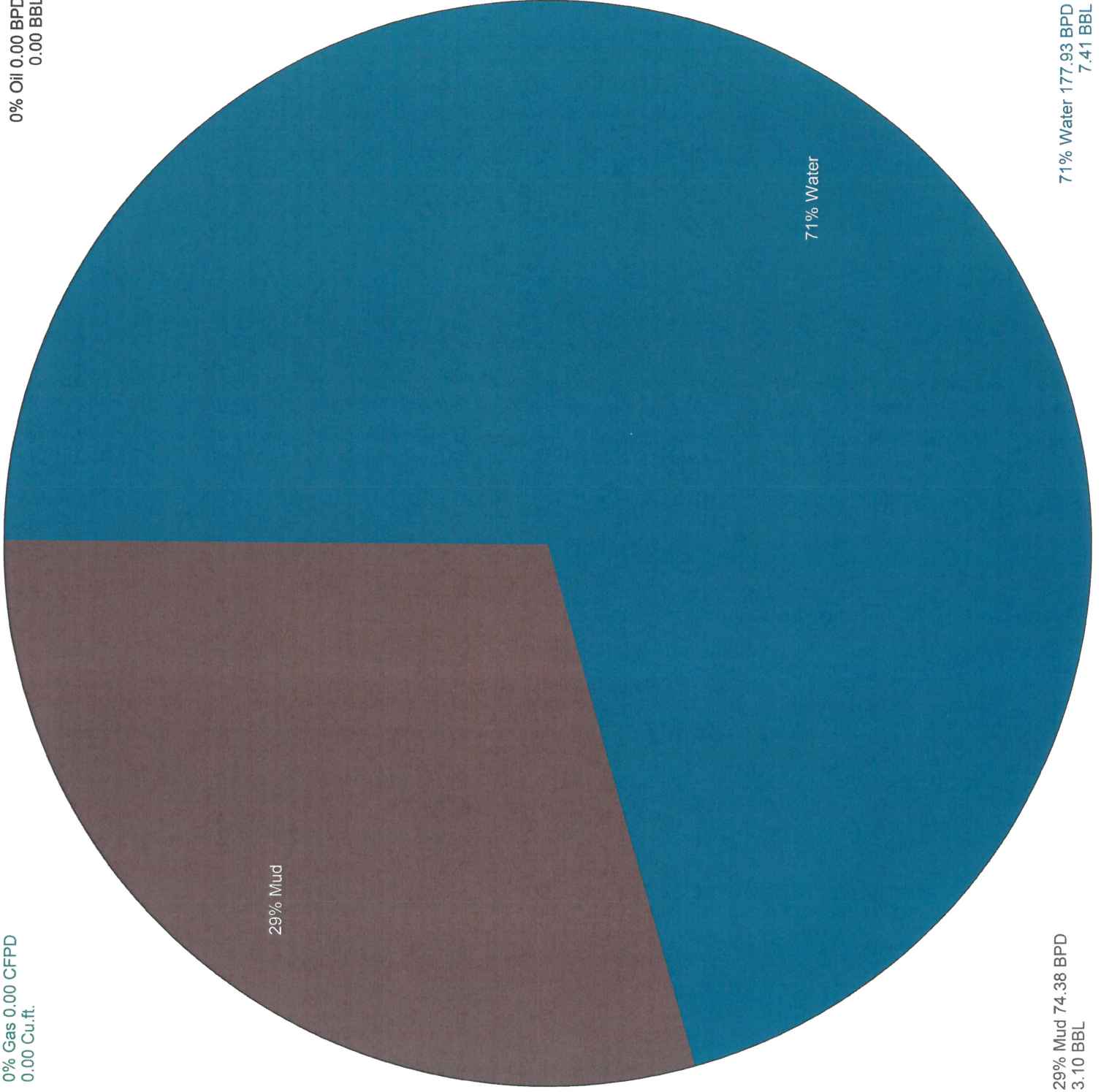
Grand Mesa Oil Company - T Bone 1-31 - DST #1



Calculated Recovery Analysis - Grand Mesa Oil Company - T Bone 1-31 - DST #1

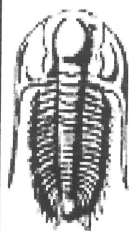
0% Gas 0.00 CFPD
0.00 Cu.ft.

0% Oil 0.00 BPD
0.00 BBL



29% Mud 74.38 BPD
3.10 BBL

71% Water 177.93 BPD
7.41 BBL



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TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating Company

31-18s-28w Lane KS

1700 N Waterfront Pkwy
Bldg 600
Wichita KS 67206+5514
ATTN: Garett Dinkel

T-Bone #1-31

Job Ticket: 70023

DST#: 2

Test Start: 2023.01.16 @ 19:10:00

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:30:32

Time Test Ended: 02:14:27

Test Type: Conventional Straddle (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: **4595.00 ft (KB) To 4626.00 ft (KB) (TVD)**

Total Depth: 4729.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2762.00 ft (KB)

2755.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8875 Outside

Press@RunDepth: 22.50 psig @ 4596.00 ft (KB)

Start Date: 2023.01.16

End Date:

2023.01.17

Start Time: 19:10:01

End Time:

02:14:27

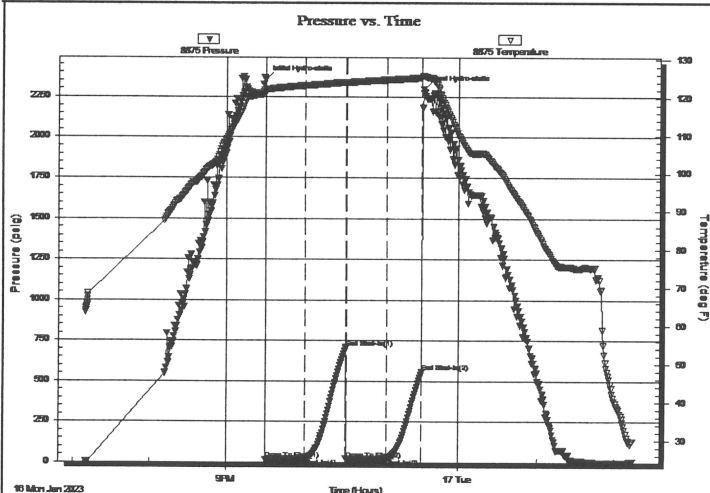
Capacity: psig

Last Calib.: 2023.01.17

Time On Btm: 2023.01.16 @ 21:30:27

Time Off Btm: 2023.01.16 @ 23:32:47

TEST COMMENT: 30-IF-Surface to 1/2"
30-ISI-No Return
30-FF-No Blow
30-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2357.52	122.04	Initial Hydro-static
1	17.96	121.10	Open To Flow (1)
32	20.59	123.08	Shut-In(1)
63	707.36	123.92	End Shut-In(1)
63	19.73	123.82	Open To Flow (2)
94	22.50	124.56	Shut-In(2)
121	555.93	125.17	End Shut-In(2)
123	2298.59	125.66	Final Hydro-static

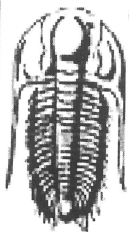
Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%M	0.05

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Grand Mesa Operating Company

31-18s-28w Lane KS

1700 N Waterfront Pkwy
Bldg 600
Wichita KS 67206+5514
ATTN: Garet Dinkel

T-Bone #1-31

Job Ticket: 70023

DST#: 2

Test Start: 2023.01.16 @ 19:10:00

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:30:32

Time Test Ended: 02:14:27

Test Type: Conventional Straddle (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: **4595.00 ft (KB) To 4626.00 ft (KB) (TVD)**

Total Depth: 4729.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2762.00 ft (KB)

2755.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6838 Inside

Press@RunDepth: psig @ 4596.00 ft (KB)

Start Date: 2023.01.16

End Date:

2023.01.17

Capacity: psig

Last Calib.:

2023.01.17

Start Time: 19:10:01

End Time:

02:15:07

Time On Btm:

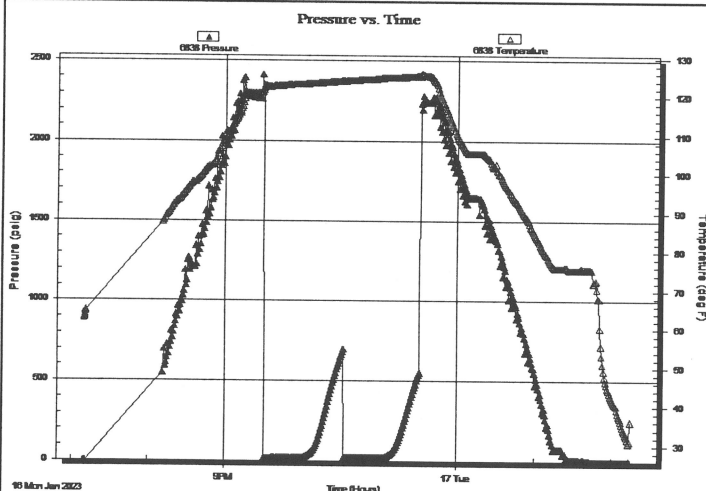
Time Off Btm:

TEST COMMENT: 30-IF-Surface to 1/2"

30-ISI-No Return

30-FF-No Blow

30-FSI-No Return



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%M	0.05

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Grand Mesa Operating Company

31-18s-28w Lane KS

1700 N Waterfront Pkwy
Bldg 600
Wichita KS 67206+5514
ATTN: Garet Dinkel

T-Bone #1-31

Job Ticket: 70023

DST#: 2

Test Start: 2023.01.16 @ 19:10:00

GENERAL INFORMATION:

Formation: Cherokee

Deviated:	No	Whipstock:	ft (KB)
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Time Tool Opened: 21:30:32

Time Test Ended: 02:14:27

Test Type: Conventional Straddle (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 4595.00 ft (KB) To 4626.00 ft (KB) (TVD)

Total Depth: 4729.00 ft (KB) (TVD)

Hole Diameter: 7.88 inchesHole Condition: Fair

Reference Elevations: 2762.00 ft (KB)

2755.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6749 **Below (Straddle)**

Press@RunDepth: psig @ 4629.00 ft (KB)

Start Date: 2023.01.16

End Date:

2023.01.17

Capacity:

psig

Start Time: 19:10:01

End Time:

02:14:27

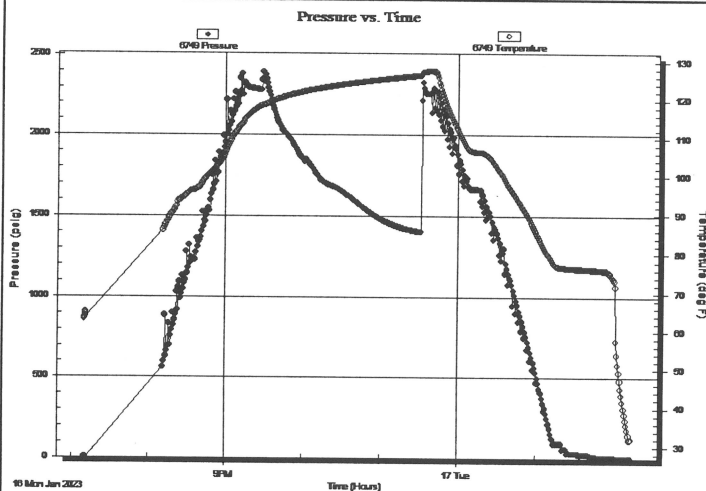
Last Calib.:

2023.01.17

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-Surface to 1/2"
30-ISI-No Return
30-FF-No Blow
30-FSI-No Return



PRESSURE SUMMARY

[illegible]

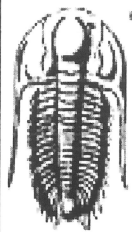
Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%M	0.05

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Company

31-18s-28w Lane KS

1700 N Waterfront Pkwy

T-Bone #1-31

Bldg 600

Job Ticket: 70023

DST#: 2

Wichita KS 67206+5514

Test Start: 2023.01.16 @ 19:10:00

ATTN: Garet Dinkel

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100%M	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

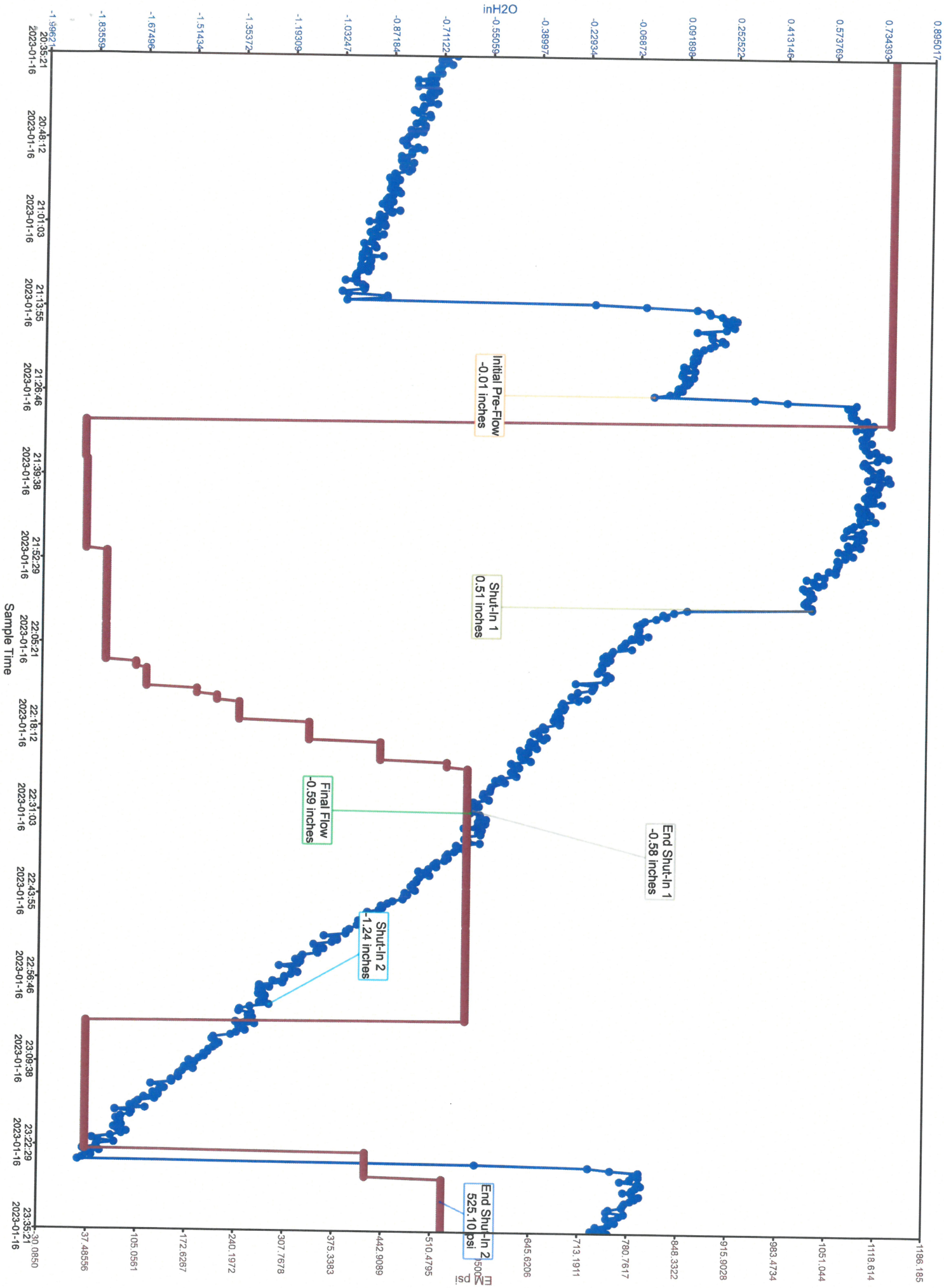
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM

Grand Mesa Oil Company - T Bone 1-31 - DST #2



Geologic Report
Aaron L. Young

Drilling Time and Sample Log

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

Well Name: T-BONE #1-31
API: 15-101-22686
Location: Section 31 - T18S - R28W
License Number: 9855
Spud Date: 1/10/2023
Surface Coordinates: 1261' FNL and 2058' FEL
Approx. SE - SW - NW - NE
Region: Lane Co., KS
Drilling Completed: 01/16/2023
Bottom Hole Coordinates:
Ground Elevation (ft): 2755' K.B. Elevation (ft): 2762'
Logged Interval (ft): 3900' To: 4730' Total Depth (ft): 4730'
Formation: Mississippi
Type of Drilling Fluid: Chemical - MudCo

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

OPERATOR

Company: Grand Mesa Operating Company
Address: 1700 N Waterfront Pkwy, Bldg 600
Wichita, KS 67206+5514

GEOLOGIST

Name: Aaron L. Young, M.S.
Company: Young Consulting LLC
Address: 929 W. Douglas Ave
Wichita, Kansas 67213-4705

General Info

CONTRACTOR: Pickrell Drilling Rig #10

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	RR	15-15-15	222'	222'	2.75
2	14-1/4	MSi 516	5 14's	4730'	4508'	64.25

Surveys: 222'-BULLSEYE, 725'-BULLSEYE, 1229'-.5, 1862'-.75, 2399'-1, 2904'-1, 4384'-1, 4730'-1

GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 8,000-12,000 lbs. on bit and approx 60-80 RPM.

Running 7 stands of collars; 429.40'

Pumping approx 900 psi at standpipe @ 60 SPM

Daily Status

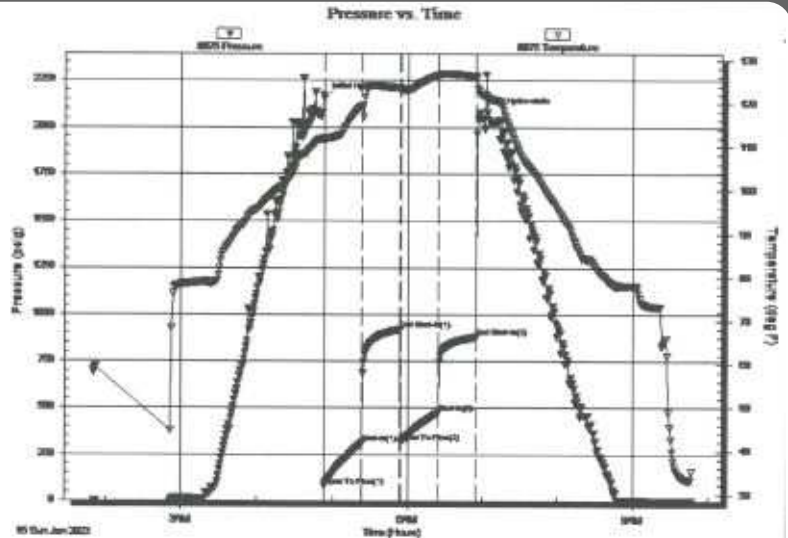
01/10/23 Spud at 9:30am. Drilled to 222'. Ran 5 jts of new 8 5/8" casing. Cem w/ 165 sx of H325 3% CC, 2% gel.
 Plug down at 3:15pm
 01/11/23 Drilling @ 946'
 01/12/23 Drilling @ 2841'
 01/13/23 Welding mud line. TD @ 3708'
 01/14/23 CFS @ 4240'. DST #1
 01/15/23 TOH w/ DST tool. TD @ 4384'
 01/16/23 Drilling @ 4673'. TD @ 4730. Logged, Straddle Test DST #2
 01/17/23 LDDP & Prepare to plug. Plugged w/ 50sx @ 2160', 80sx @ 1350', 50sx @ 540', 40sx @ 270', 20sx @ 60',
 30sx in rathole. Plug down @ 7:15pm 1/17/23

DST #1 Hertha & Pleasanton
 4274' - 4384'
 30" - 30" - 30" - 30"

IF: BOB in 9 min, built to 40.5"
 ISI: No return
 FF: BOB in 8 min, built to 32"
 FSI: No return

Rec'd: 580' MCW (90% W, 10%M), 240' WM (30% W, 70% M)

SIP: 918-877#
 FP: 80-312#, 316-473#
 HP: 2155-2078#

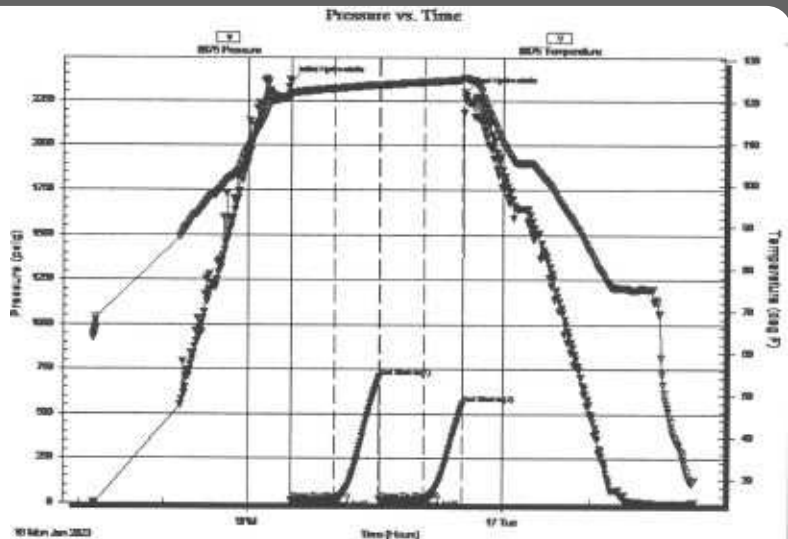


DST #2 Cherokee (Straddle)
 4595' - 4626'
 30" - 30" - 30" - 30"

IF: Surface to 1/2"
 ISI: No return
 FF: No blow
 FSI: No return

Rec'd: 10' M (100% M)

SIP: 707-556#
 FP: 18-21#, 20-23#
 HP: 2358-2299#



ROCK TYPES

Anhy
 Bent
 Brec
 Cht
 Clyst
 Coal
 Congl
 Dol

Gyp
 Igne
 Lmst
 Meta
 Mrlst
 Salt
 Shale
 Shcol

Shgy
 Sltst
 Ss
 Till
 Carb sh
 Dol
 Dtd
 Gry sh

Sandylms
 Shale
 Sltstn
 Shlyslts
 Sltyslts
 Lms

ACCESSORIES

MINERAL

Anhy
 Arggrn
 Arg
 Bent
 Bit
 Brecfrag
 Calc
 Carb
 Chtdk
 Chtlt
 Dol
 Feldspar
 Ferrpel
 Ferr
 Glau
 Gyp
 Hvymn
 Kaol
 Marl
 Minxl
 Nodule
 Phos
 Pyr



Salt
 Sandy
 Silt
 Sil
 Sulphur
 Tuff
 Chlorite
 Dol
 Sand
 Sltly

FOSSIL

Algae
 Amph
 Belm
 Bioclst
 Brach
 Bryozoa
 Cephal
 Coral
 Crin
 Echin
 Fish
 Foram



Fossil
 Gastro
 Oolite
 Ostra
 Pelec
 Pellet
 Pisolite
 Plant
 Strom
 Fuss
 Oomold

STRINGER

Anhy
 Arg
 Bent
 Coal
 Dol
 Gyp
 Ls
 Mrst
 Sltstrg
 Ssstrg
 Carbsh



Clystn
 Dol
 Grysh
 Gryslt
 Lms
 Sandylms
 Sh
 Sltstn

TEXTURE

Boundst
 Chalky
 Cryxln
 Earthy
 Finexln
 Grainst
 Lithogr
 Microxln
 Mudst
 Packst
 Wackest

OTHER SYMBOLS

POROSITY TYPE

Earthy
 Fenest
 Fracture
 Inter
 Moldic
 Organic
 Pinpoint
 Vuggy

SORTING

Well
 Moderate
 Poor

ROUNDING

Rounded
 Subrnd
 Subang
 Angular

OIL SHOWS

Even
 Spotted
 Ques
 Dead
 Gas show

INTERVALS

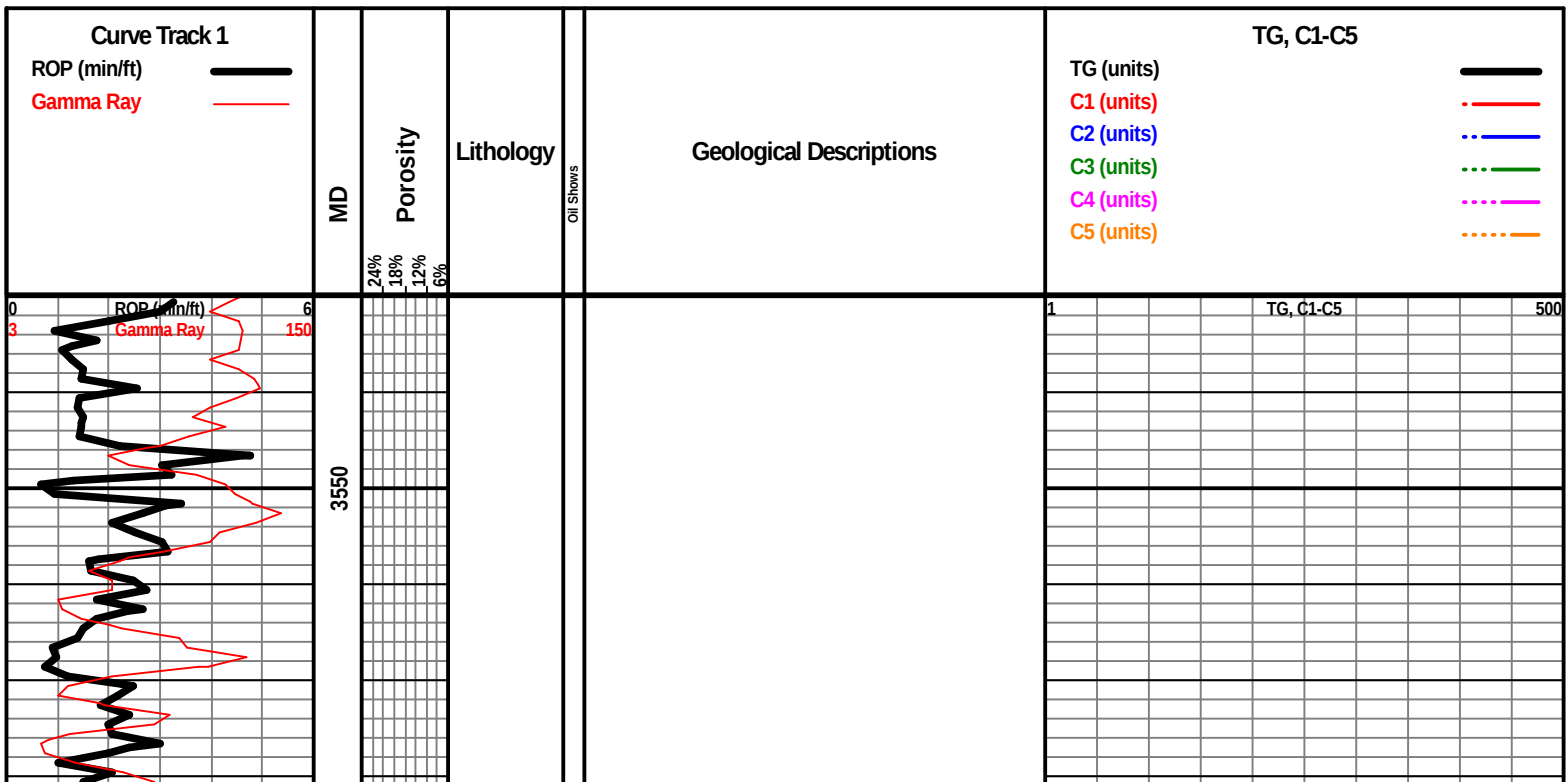
Core
 Dst

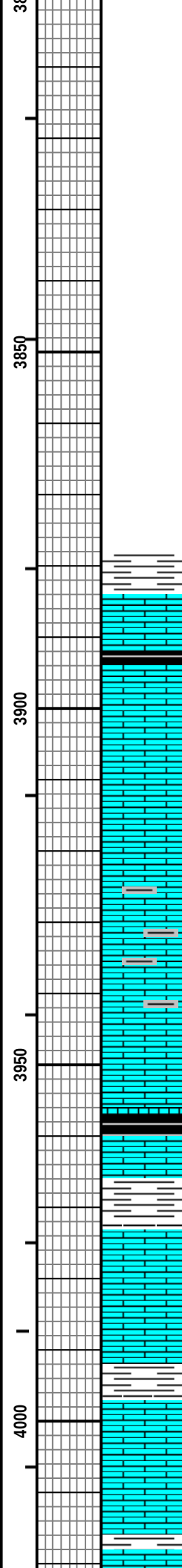
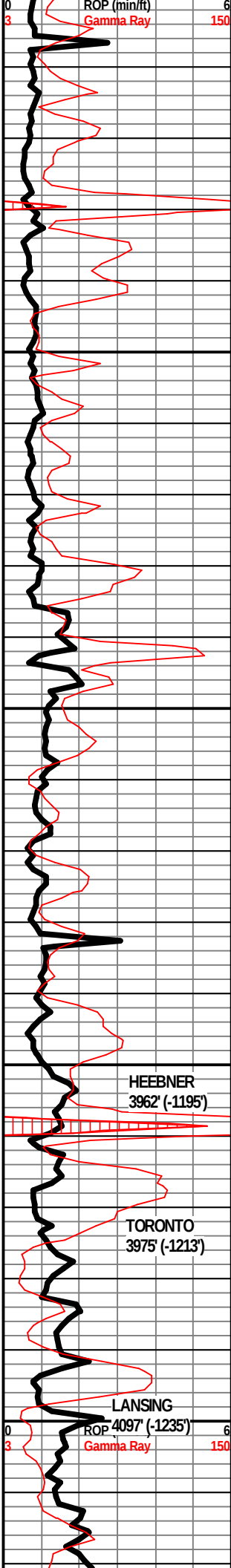


Dst

EVENTS

Rft
 Sidewall
 Conn





LS - TAN / CRM, F XLN, MOD DNS / DNS, FOSS, W/ SH - GRN / GY

LS - CRM / TAN, F / VF XLN, MOD DNS / SUBCHKY, FOSS, W/ SH - BLK, CARB

LS - TAN / CRM, F XLN, MOD DNS / DNS, FOSS

LS - CRM / TAN / GY, F XLN, MOD DNS, FOSS, ARG

SH - BLK, CARB, W/ LS - CRM / WHT, F / VF XLN, MOD DNS / SUBCHKY, W/ SH - GRN / GY

LS - CRM / WHT, F / VF XLN, MOD DNS / SUBCHKY, CHKY IN PT, FOSS IN PT, W/ SH - GRN / GY

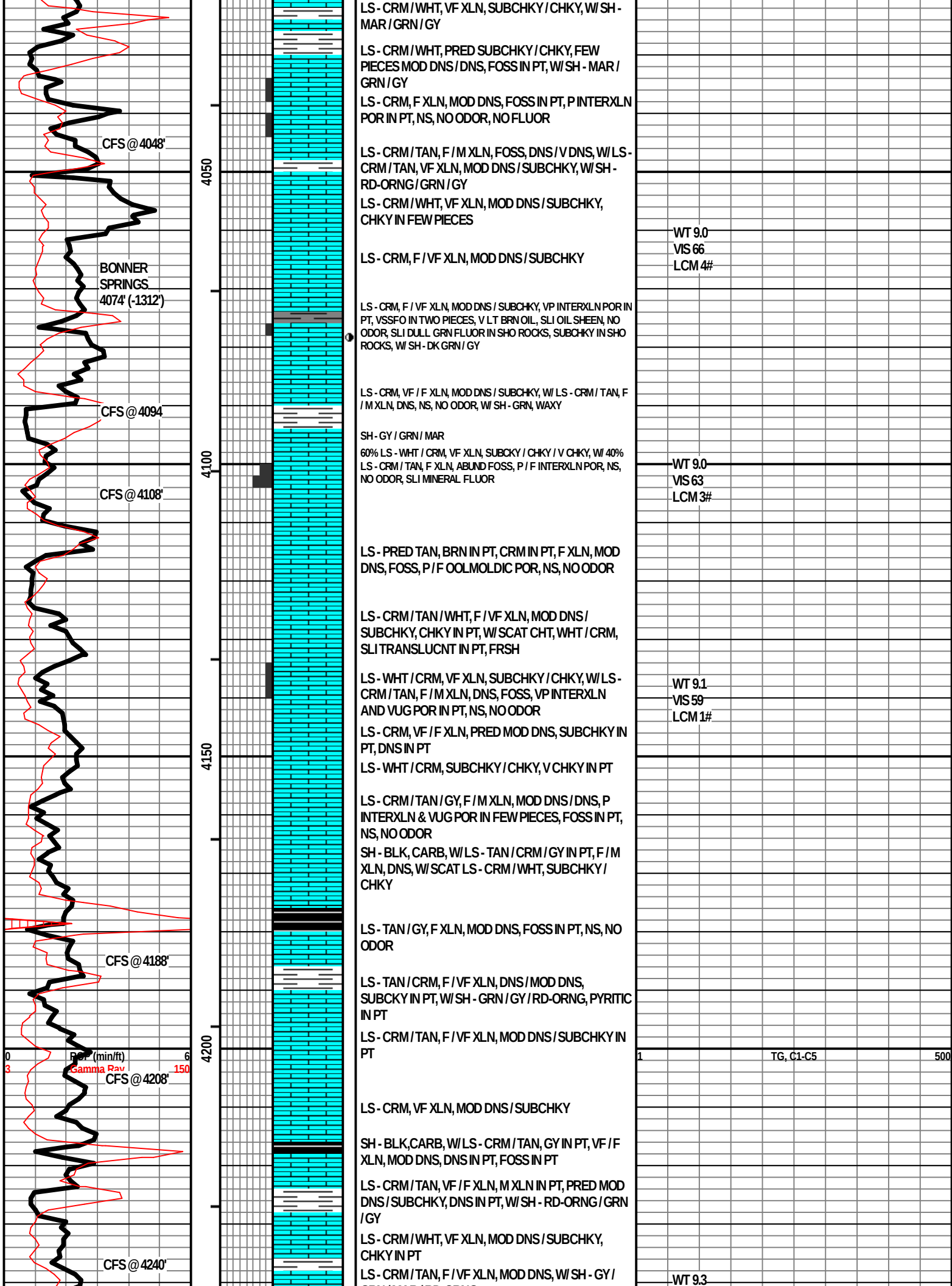
SH - RDISH-BRN / GRN, W/ LS - WHT, V CHKY, W/ LS - WHT / CRM, VF XLN, MOD DNS / SUBCHKY

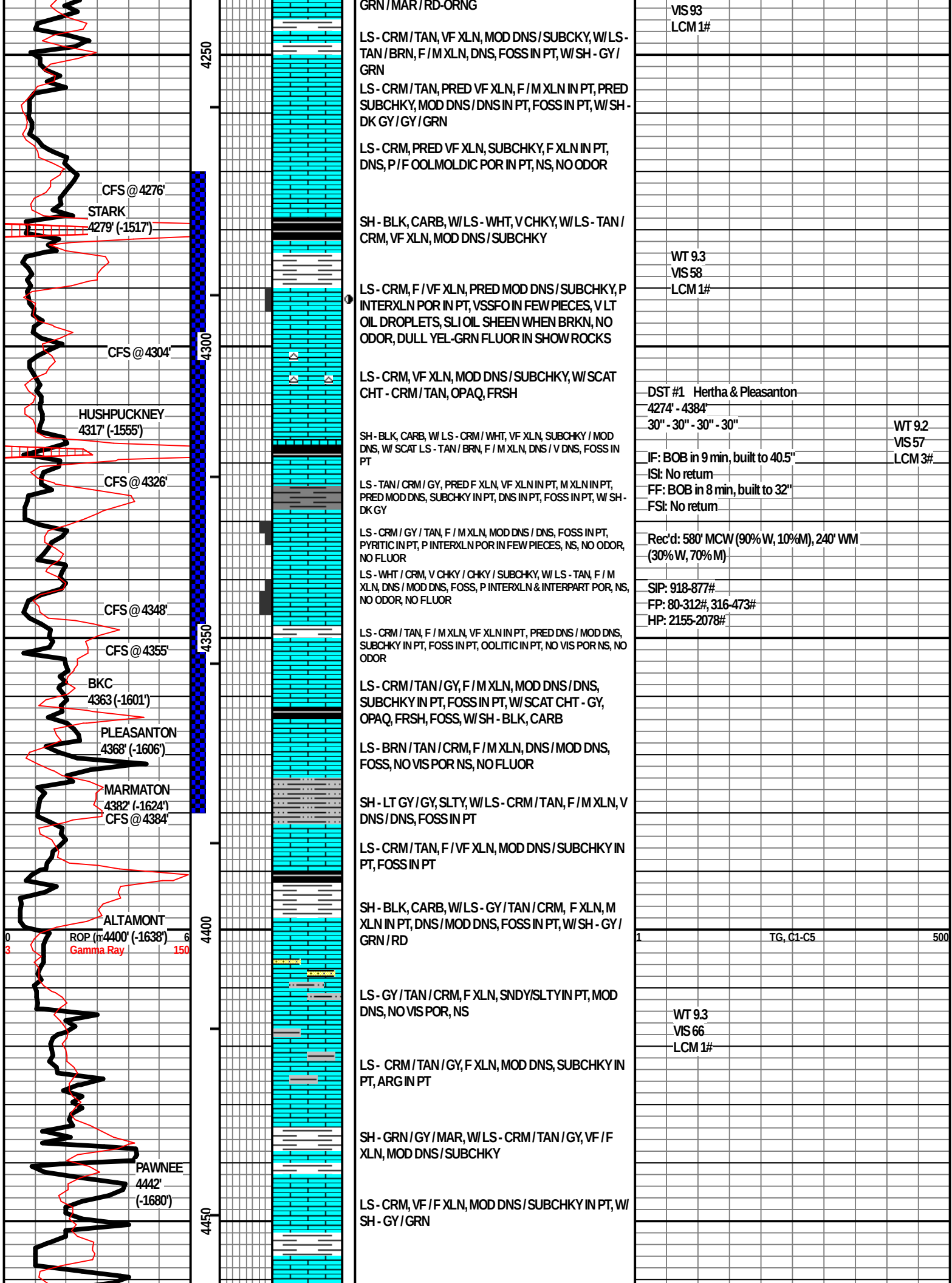
LS - WHT / CRM, VF / F XLN, SUBCHKY / MOD DNS IN PT, W/ SH - RD / GRN

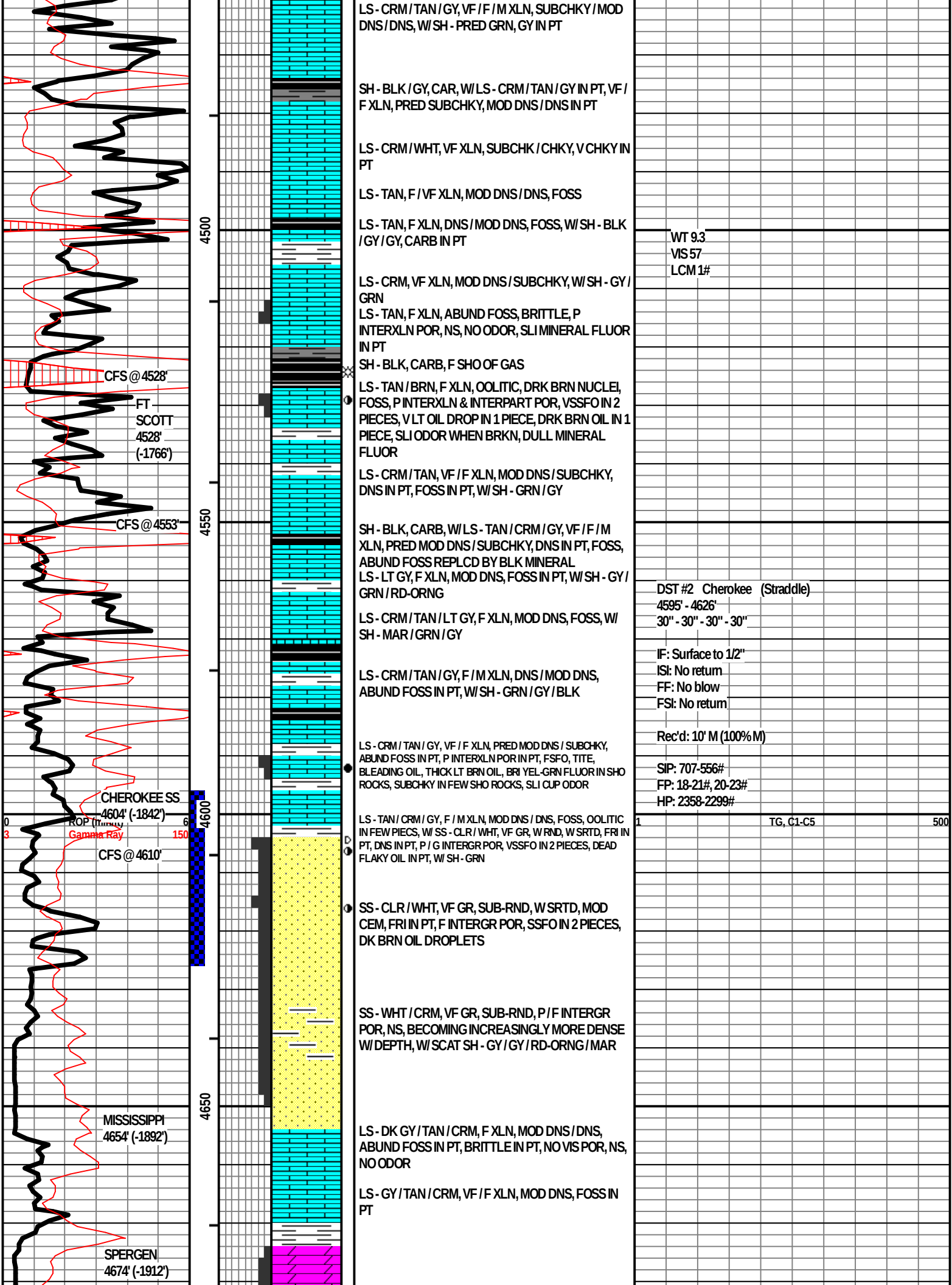
LS - CRM / TAN, VF / F / M XLN, MOD DNS, FOSS IN PT

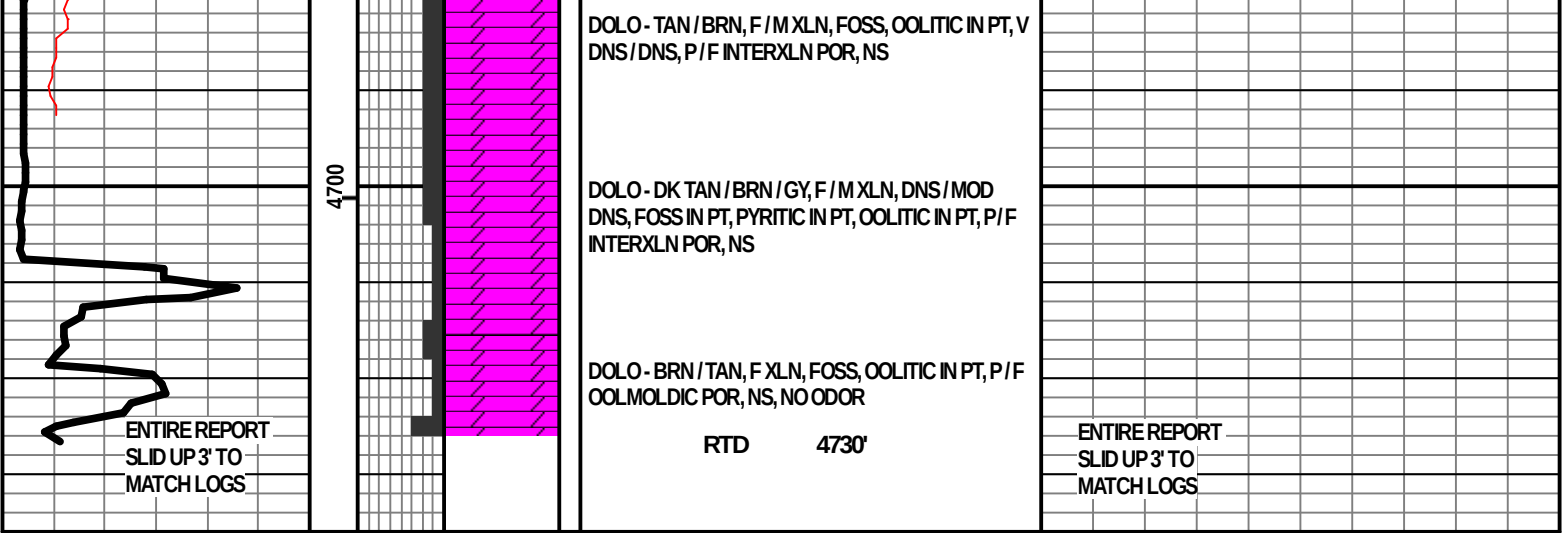
WT 8.7
VIS 65
LCM 1#

TG, C1-C5









[illegible]

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269
◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

FOREMAN Tom Williams

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-17-23	9855	T Bone 1-31	31	14	29	Lane

CUSTOMER <i>Grand Masca Operating Company</i>		TRUCK #		DRIVER		TRUCK #		DRIVER		
MAILING ADDRESS <i>1700 N Waterfront Pkwy Bldg 600</i>		<i>102</i>		<i>Tom W</i>						
CITY <i>Wichita</i>	STATE <i>KS</i>	ZIP CODE <i>67206</i>	<i>202</i>		<i>Jack T</i>					

JOB TYPE <u>PTA</u>	HOLE SIZE _____	HOLE DEPTH _____	CASING SIZE & WEIGHT _____
CASING DEPTH _____	DRILL PIPE _____	TUBING _____	OTHER _____
SLURRY WEIGHT _____	SLURRY VOL _____	WATER gal/sk _____	CEMENT LEFT in CASING _____
DISPLACEMENT _____	DISPLACEMENT PSI _____	MIX PSI _____	RATE _____

REMARKS: Safety meeting & set up on Pickrell. Plug as ordered

1) 2160'	505x
2) 1350'	805x
3) 540	505x
4) 270	405x
CPA 40 -	305x
RIK	305x
	2705x

Thanks Tam & Jack

[illegible]

AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.