KOLAR Document ID: 1303069

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 # 33856
Name: White Exploration, Inc.
Address 1: 1635 N. WATERFRONT PKWY
Address 2: SUITE 100
City: WICHITA State: KS Zip: 67206 + 3966
Contact Person: Kenneth S. White
Phone: (316) 682-6300
CONTRACTOR: License # 33575
Name: WW Drilling, LLC
Wellsite Geologist: Andrew K. White
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 #:

1/9/2016 Spud Date or Recompletion Date
1/30/2016 Date Reached TD
4/4/2016 Completion Date or Recompletion Date

API No.: 15-187-21322-00-00
Spot Description:
SW - NE - NW - NW Sec. 4 Twp. 30 S. R. 39 ☐ East ☑ West
560 Feet from ☑ North / ☐ South Line of Section
979 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: Stanton
Lease Name: Milton Well #: 1
Field Name:
Producing Formation: Morrow
Elevation: Ground: 3197 Kelly Bushing: 3202
Total Vertical Depth: 5854 Plug Back Total Depth: 5832
Amount of Surface Pipe Set and Cemented at: 1739 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 3242 Feet
If Alternate II completion, cement circulated from: 3242
feet depth to: 0 w/ 540 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 6800 ppm Fluid volume: 800 bbls
Dewatering method used: Evaporated

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: 05/03/2016
☑ **Confidential Release Date:** 05/03/2018
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 05/04/2016

Operator Name: White Exploration, Inc. Lease Name: Milton Well #: 1

Sec. 4 Twp. 30 S. R. 39 ☐ East ☑ West County: Stanton

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
Heebner	3782	-580
Lansing	3865	-663
Marmaton	4468	-1466
Morrow	5174	-1972
Lower Morrow Marker	5462	-2260
Chester	5606	1466
Miss-St. Gen	5680	-2478

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	24	1739	Common	590	2% gel, 3% CC
Production	7.875	4.5	10.5	5853	See attached	900	See attached

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: 04/04/2016	Producing Method: ☑ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL: Top	Bottom
☐ Vented ☑ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	5586 - 5574	

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)*

TUBING RECORD: Size: 2.375 Set At: 5574 Packer At:

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

Form	ACO1 - Well Completion
Operator	White Exploration, Inc.
Well Name	Milton 1
Doc ID	1303069

All Electric Logs Run

Compensated Density/Neutron
Dual Induction log
Micro Log
Sonic Log

Form	ACO1 - Well Completion
Operator	White Exploration, Inc.
Well Name	Milton 1
Doc ID	1303069

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	24	1739	Common	590	2% gel, 3% CC
Production	7.875	4.5	10.5	5853	See attached	900	See attached

Andrew White

Petroleum Geologist

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

Well Name:	**Milton #1**		
Location:	**4-30S-39W**		
License Number:	**API: 15-187-21322**	**Region:**	**Stanton Co., KS**
Spud Date:	**01/19/16**	**Drilling Completed:**	**01/31/16**
Surface Coordinates:	**560' FNL, 979' FWL**		
Bottom Hole Coordinates:			
Ground Elevation (ft):	**3197**	**K.B. Elevation (ft):**	**3202**
Logged Interval (ft):	**3500 To: 5850**	**Total Depth (ft):**	**5850**
Formation:	**Mississippian**		
Type of Drilling Fluid:	**Chemical**		

OPERATOR

Company: Palomino Petroleum, Inc.
Address: 4924 SE 84th St.
Newton, KS 67114

GEOLOGIST

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

Remarks

Operations for the Milton #1 were turned over to White Exploration, Inc. at casing point.

General Info

Drilling Contractor: WW Rig 2

Logs: Gemini
Compensated Density/Neutron, Dual, Micro, Sonic

Drilling Mud: Mudco/Service Mud, Inc.

DST: Trilobite Testing

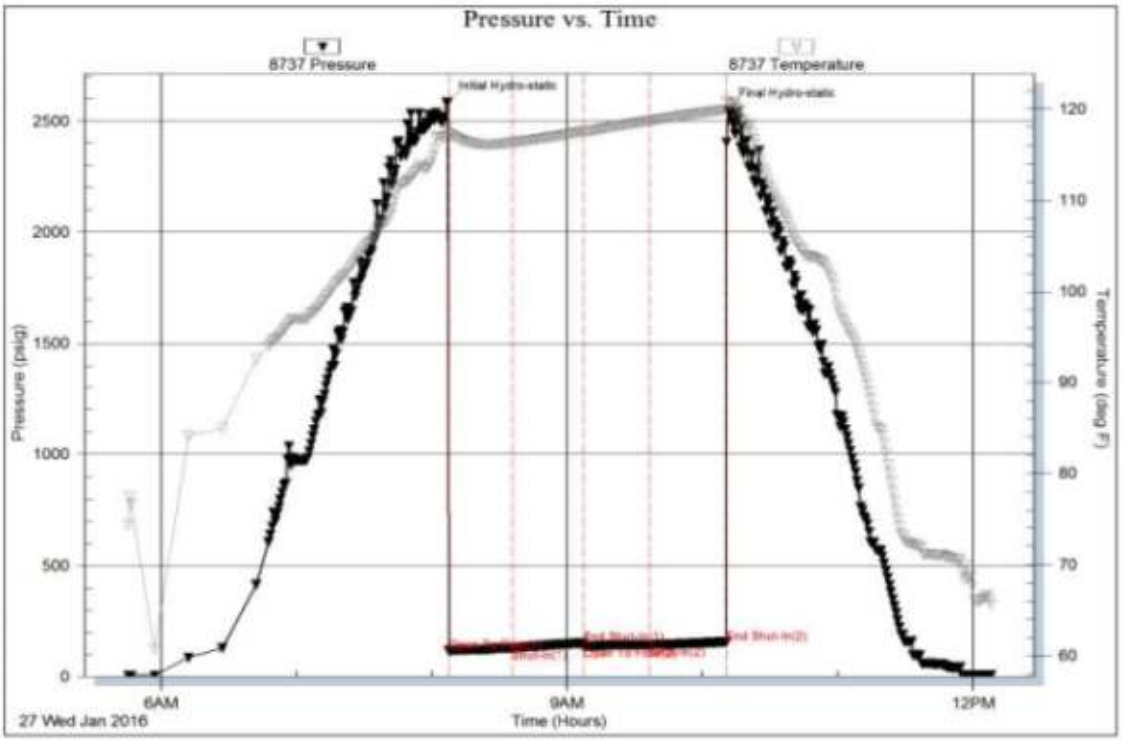
Surveys: 1741'-1.25, 5050'-.75, 5850'-1.25

Daily Status

01/19/16: Spud well
01/20/16: Drilling ahead @ 1578'
01/21/16: Ran 41 jts. 8 5/8" surface @ 1739', cemented with 590 sacks Common, 2% gel, 3% c.c.
01/22/16: Drilling ahead @ 2626'
01/23/16: Drilling ahead @ 3365'
01/24/16: Drilling ahead @ 3962'
01/25/16: Drilling ahead @ 4430'
01/26/16: Drilling ahead @ 4852'
01/27/16: Running DST #1 4870-5050
01/28/16: Drilling ahead @ 5282'
01/29/16: Drilling ahead @ 5620'
10/30/16: Logging @ 5850

	Palomino Milton #1 4-30S-39W 560'FNL, 979' FWL KB:3202				Palomino Byers-Shore #1 2-30S-30W 2254' FSL, 959' FEL KB: 3166	Presco Hauser Trust 5-30S-39W 1276'FNL, 330' FWL KB: 3237	Ensign Baughman 1-9 9-30S-39W 4290' FSL, 990' FEL KB: 3210	Presco Katherine Trust 1-30S-39W 644' FNL, 1767' FEL KB: 3169
	Sample	Log	Datum		Relationship	Relationship	Relationship	Relationship
Anhy.	1691	1691	1511		-31	-76	-52	-16
Base Anhy.	1706	1706	1496		33	-31	1	42
Heebner	3778	3782	-580		60	-43	16	67
Lansing	3858	3865	-663		83	-25	37	98
Marmaton	4464	4468	-1266		86	-51	29	111
Cherokee	4668	4668	-1466		75	-54	34	98
Morrow	5186	5174	-1972		58	-49	39	63
LMM	5452	5462	-2260		42	-26	57	63
Chester	5555	5606	-2404		-20	-98	-21	-6
Miss	5658	5680	-2478		-2	-125	-21	17
St. Louis	5747	5738	-2536		-10	-69	2	1

Serial #: 8737 **Outside** Palomino Petroleum Inc. #1 Milton DST Test Number: 1



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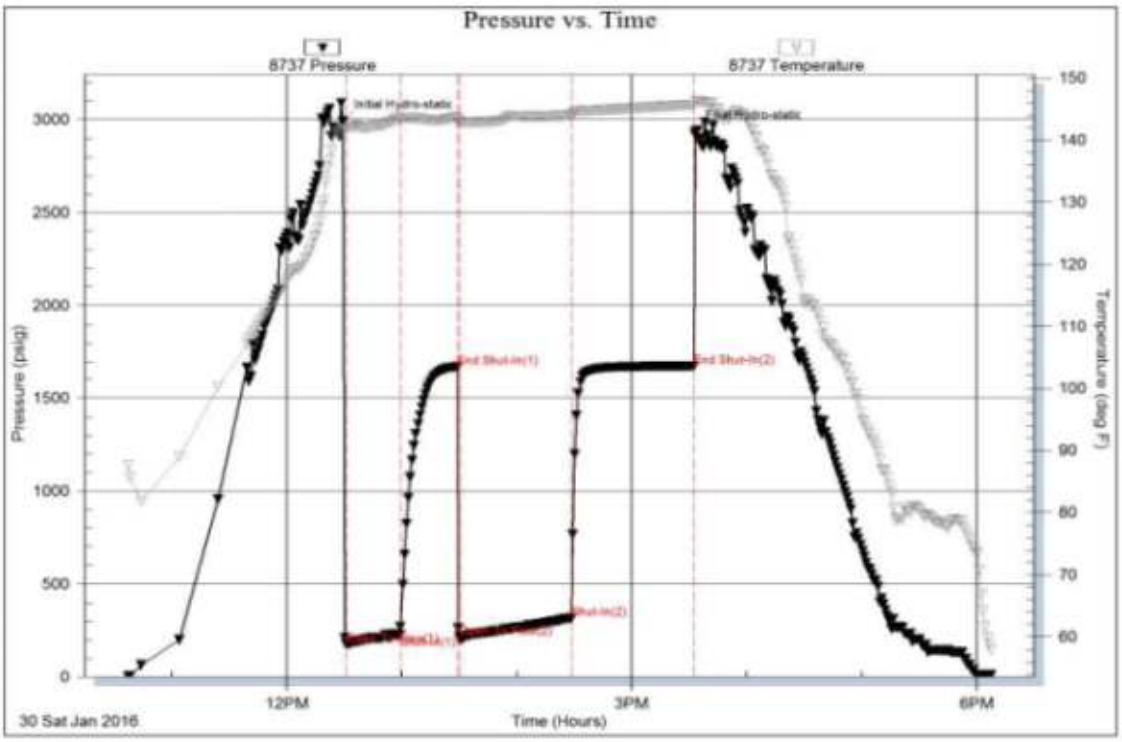
Serial #: 8737 **Outside** Palomino Petroleum Inc. #1 Milton DST Test Number: 2



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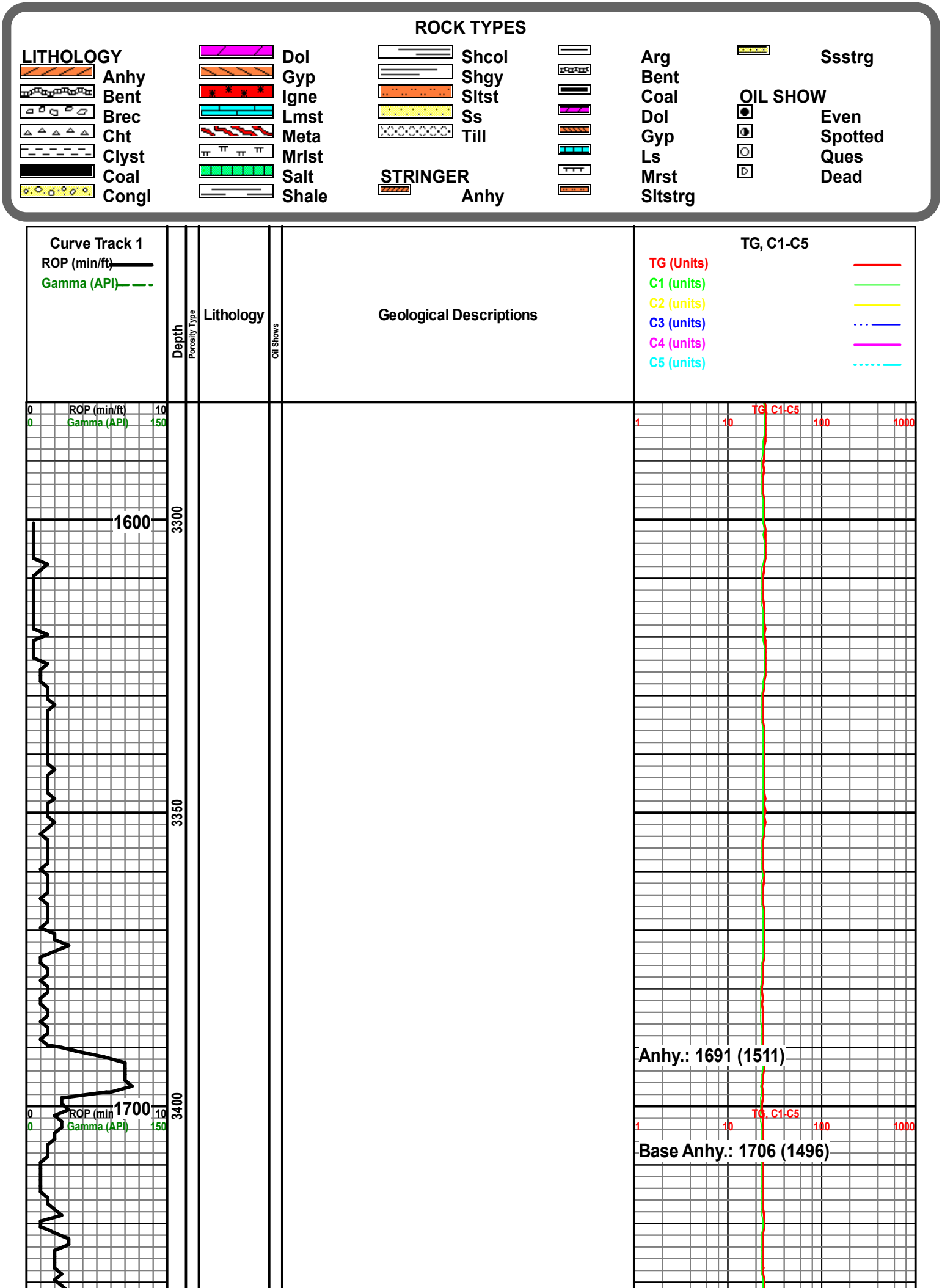
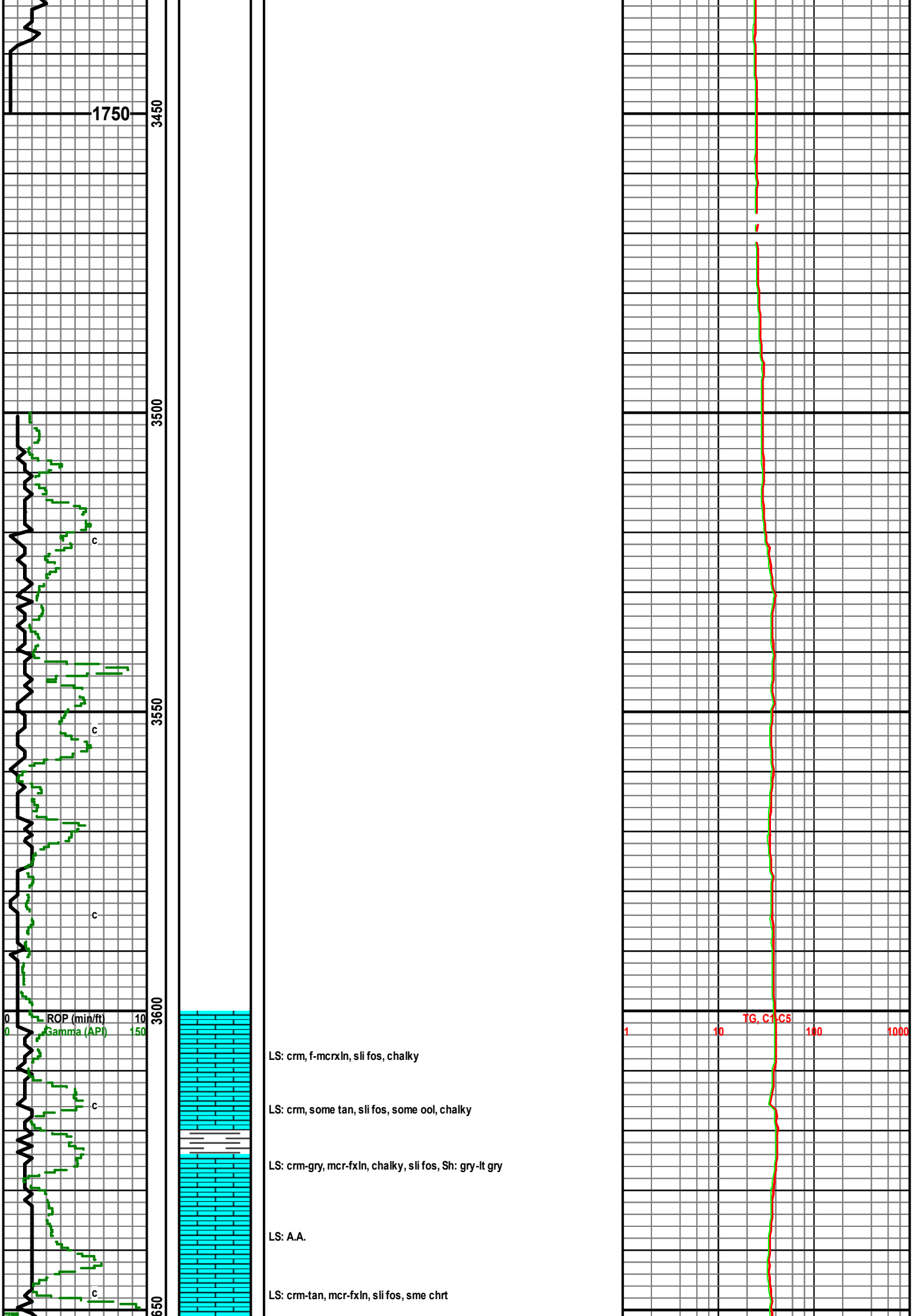
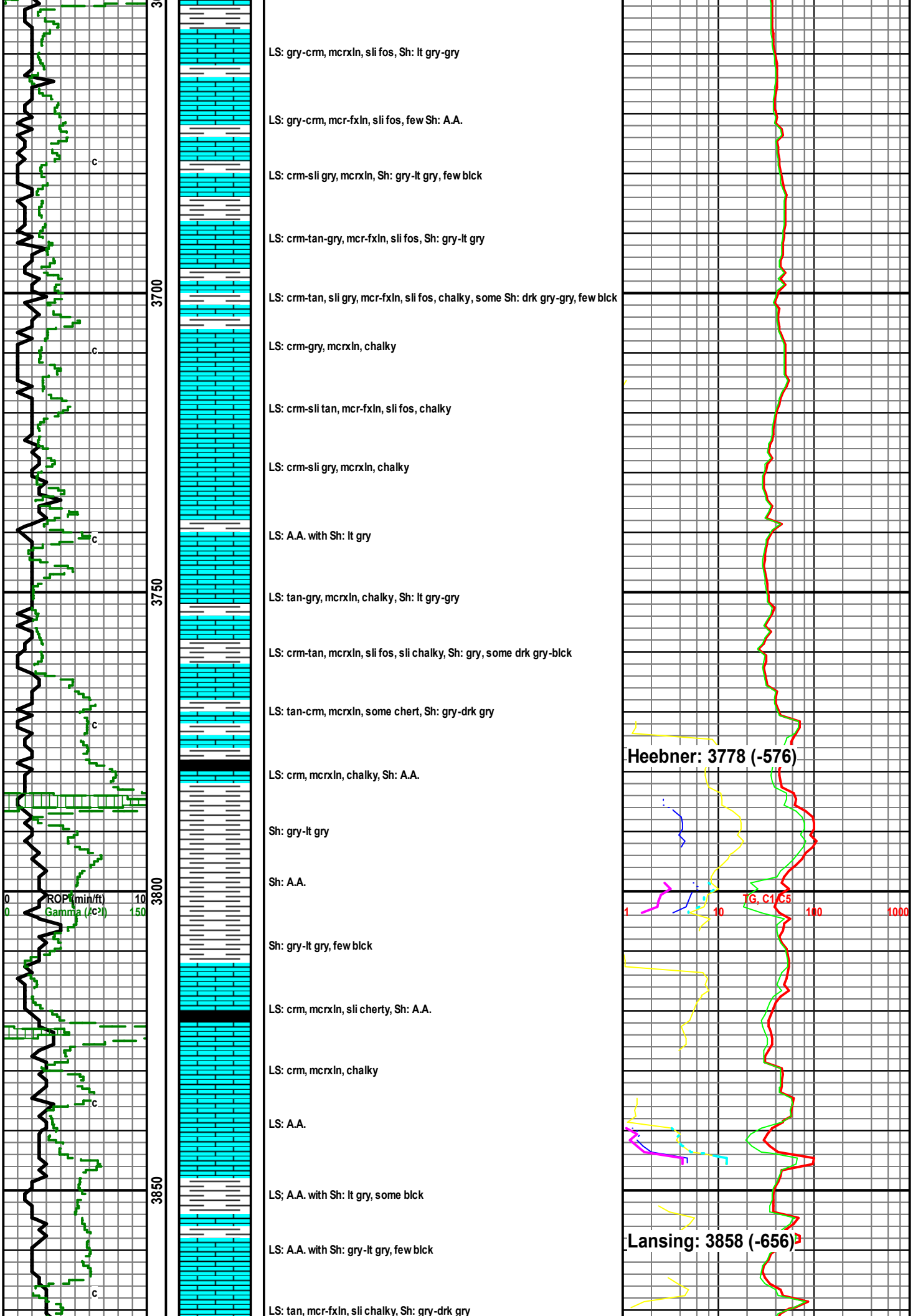
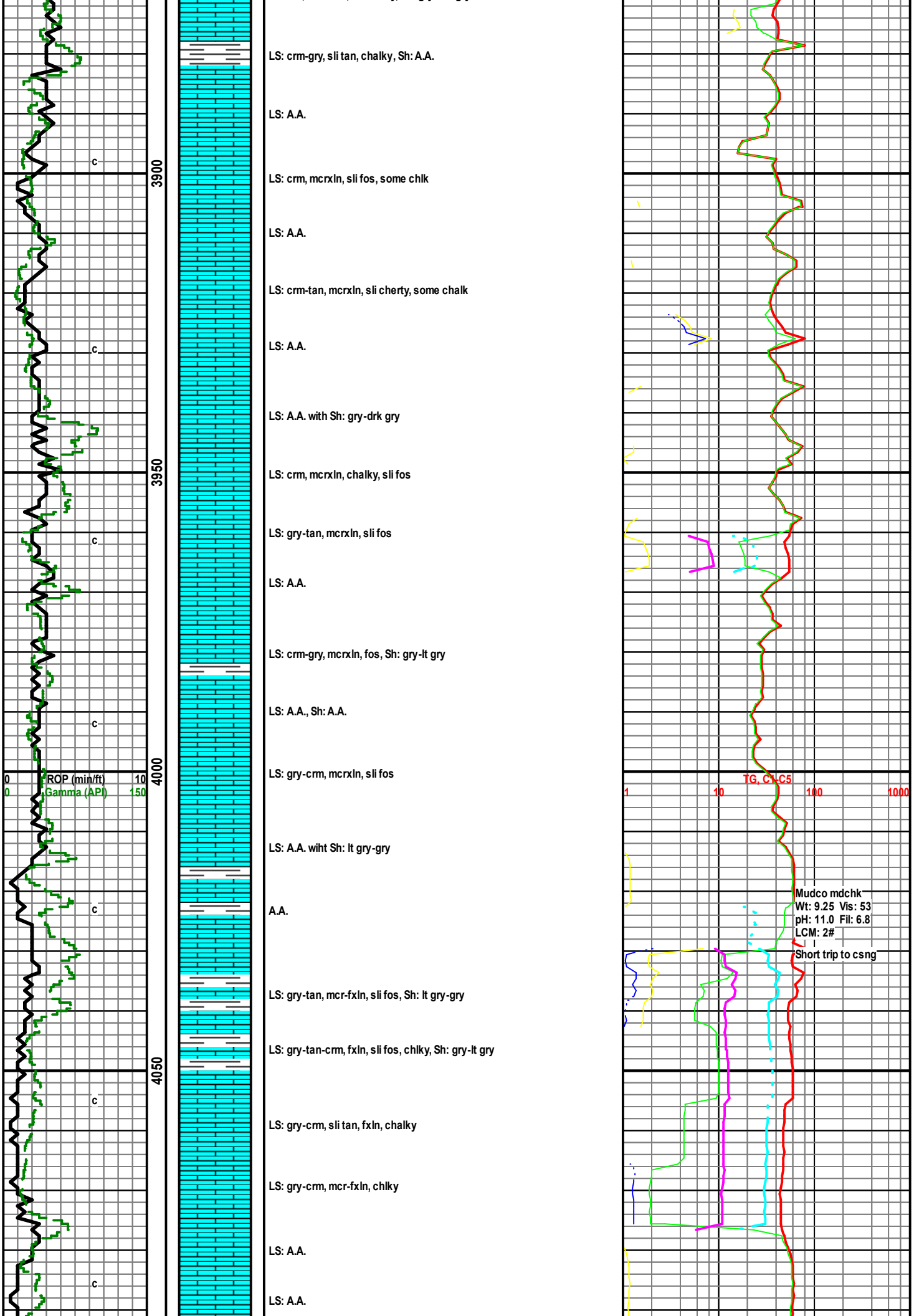

ROCK TYPES
LITHOLOGY
Anhy
Bent
Brec
Cht
Clyst
Coal
Congl
Dol
Gyp
Igne
Lmst
Meta
Mrlst
Salt
Shale
Shcol
Shgy
Sltst
Ss
Till
STRINGER
Anhy
Arg
Bent
Coal
Dol
Gyp
Ls
Mrst
Sltstrg
Ssstrg
OIL SHOW
Even
Spotted
Ques
Dead
Curve Track 1
ROP (min/ft)
Gamma (API)
Depth
Porosity Type
Lithology
Oil Shows
Geological Descriptions
TG, C1-C5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
C5 (units)
0
ROP (min/ft)
10
0
Gamma (API)
150
1600
3300
3350
3400
1700
TG, C1-C5
1
10
100
1000
Anhy.: 1691 (1511)
Base Anhy.: 1706 (1496)


1750
3450
3500
3550
3600
3650
C
C
C
C
C
0
ROP (min/ft)
10
0
Gamma (API)
150
TG, C1-C5
1
10
100
1000
LS: crm, f-mcrxln, sli fos, chalky
LS: crm, some tan, sli fos, some ool, chalky
LS: crm-gry, mcr-fxln, chalky, sli fos, Sh: gry-lt gry
LS: A.A.
LS: crm-tan, mcr-fxln, sli fos, sme chrt


3700
3750
3800
3850
0
ROP (min/ft)
10
0
Gamma (API)
150
LS: gry-crm, mcrxln, sli fos, Sh: lt gry-gry
LS: gry-crm, mcr-fxln, sli fos, few Sh: A.A.
LS: crm-sli gry, mcrxln, Sh: gry-lt gry, few blck
LS: crm-tan-gry, mcr-fxln, sli fos, Sh: gry-lt gry
LS: crm-tan, sli gry, mcr-fxln, sli fos, chalky, some Sh: drk gry-gry, few blck
LS: crm-gry, mcrxln, chalky
LS: crm-sli tan, mcr-fxln, sli fos, chalky
LS: crm-sli gry, mcrxln, chalky
LS: A.A. with Sh: lt gry
LS: tan-gry, mcrxln, chalky, Sh: lt gry-gry
LS: crm-tan, mcrxln, sli fos, sli chalky, Sh: gry, some drk gry-blck
LS: tan-crm, mcrxln, some chert, Sh: gry-drk gry
LS: crm, mcrxln, chalky, Sh: A.A.
Sh: gry-lt gry
Sh: A.A.
Sh: gry-lt gry, few blck
LS: crm, mcrxln, sli cherty, Sh: A.A.
LS: crm, mcrxln, chalky
LS: A.A.
LS; A.A. with Sh: lt gry, some blck
LS: A.A. with Sh: gry-lt gry, few blck
LS: tan, mcr-fxln, sli chalky, Sh: gry-drk gry
Heebner: 3778 (-576)
TG, C1, C5
1
10
100
1000
Lansing: 3858 (-656)


3900
3950
4000
4050
0 ROP (min/ft) 10
0 Gamma (API) 150
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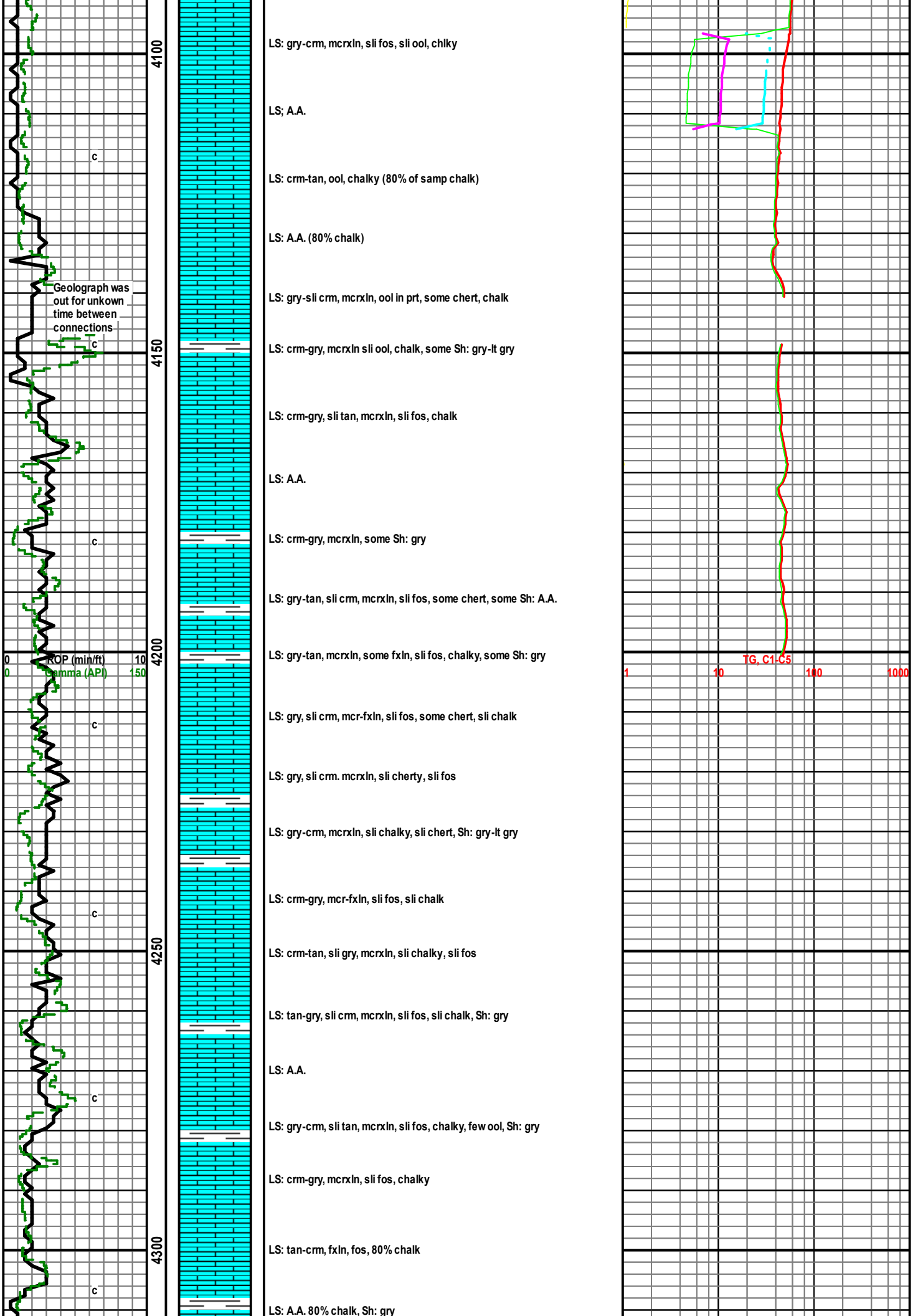
LS: A.A.
LS: crm, mcrxln, sli fos, some chlk
LS: A.A.
LS: crm-tan, mcrxln, sli cherty, some chalk
LS: A.A.
LS: A.A. with Sh: gry-drk gry
LS: crm, mcrxln, chalky, sli fos
LS: gry-tan, mcrxln, sli fos
LS: A.A.
LS: crm-gry, mcrxln, fos, Sh: gry-lt gry
LS: A.A., Sh: A.A.
LS: gry-crm, mcrxln, sli fos
LS: A.A. wiht Sh: lt gry-gry
A.A.
LS: gry-tan, mcr-fxln, sli fos, Sh: lt gry-gry
LS: gry-tan-crm, fxln, sli fos, chlky, Sh: gry-lt gry
LS: gry-crm, sli tan, fxln, chalky
LS: gry-crm, mcr-fxln, chlky
LS: A.A.
LS: A.A.
TG, C1-C5
1
10
100
1000
Mudco mdchk
Wt: 9.25 Vis: 53
pH: 11.0 Fil: 6.8
LCM: 2#
Short trip to csng


0
ROP (min/ft)
10
0
Gamma (API)
150
4100
4150
4200
4250
4300
c
Geolograph was out for unkown time between connections
LS: gry-crm, mcrxln, sli fos, sli ool, chlky
LS; A.A.
LS: crm-tan, ool, chalky (80% of samp chalk)
LS: A.A. (80% chalk)
LS: gry-sli crm, mcrxln, ool in prt, some chert, chalk
LS: crm-gry, mcrxln sli ool, chalk, some Sh: gry-lt gry
LS: crm-gry, sli tan, mcrxln, sli fos, chalk
LS: A.A.
LS: crm-gry, mcrxln, some Sh: gry
LS: gry-tan, sli crm, mcrxln, sli fos, some chert, some Sh: A.A.
LS: gry-tan, mcrxln, some fxln, sli fos, chalky, some Sh: gry
LS: gry, sli crm, mcr-fxln, sli fos, some chert, sli chalk
LS: gry, sli crm. mcrxln, sli cherty, sli fos
LS: gry-crm, mcrxln, sli chalky, sli chert, Sh: gry-lt gry
LS: crm-gry, mcr-fxln, sli fos, sli chalk
LS: crm-tan, sli gry, mcrxln, sli chalky, sli fos
LS: tan-gry, sli crm, mcrxln, sli fos, sli chalk, Sh: gry
LS: A.A.
LS: gry-crm, sli tan, mcrxln, sli fos, chalky, few ool, Sh: gry
LS: crm-gry, mcrxln, sli fos, chalky
LS: tan-crm, fxln, fos, 80% chalk
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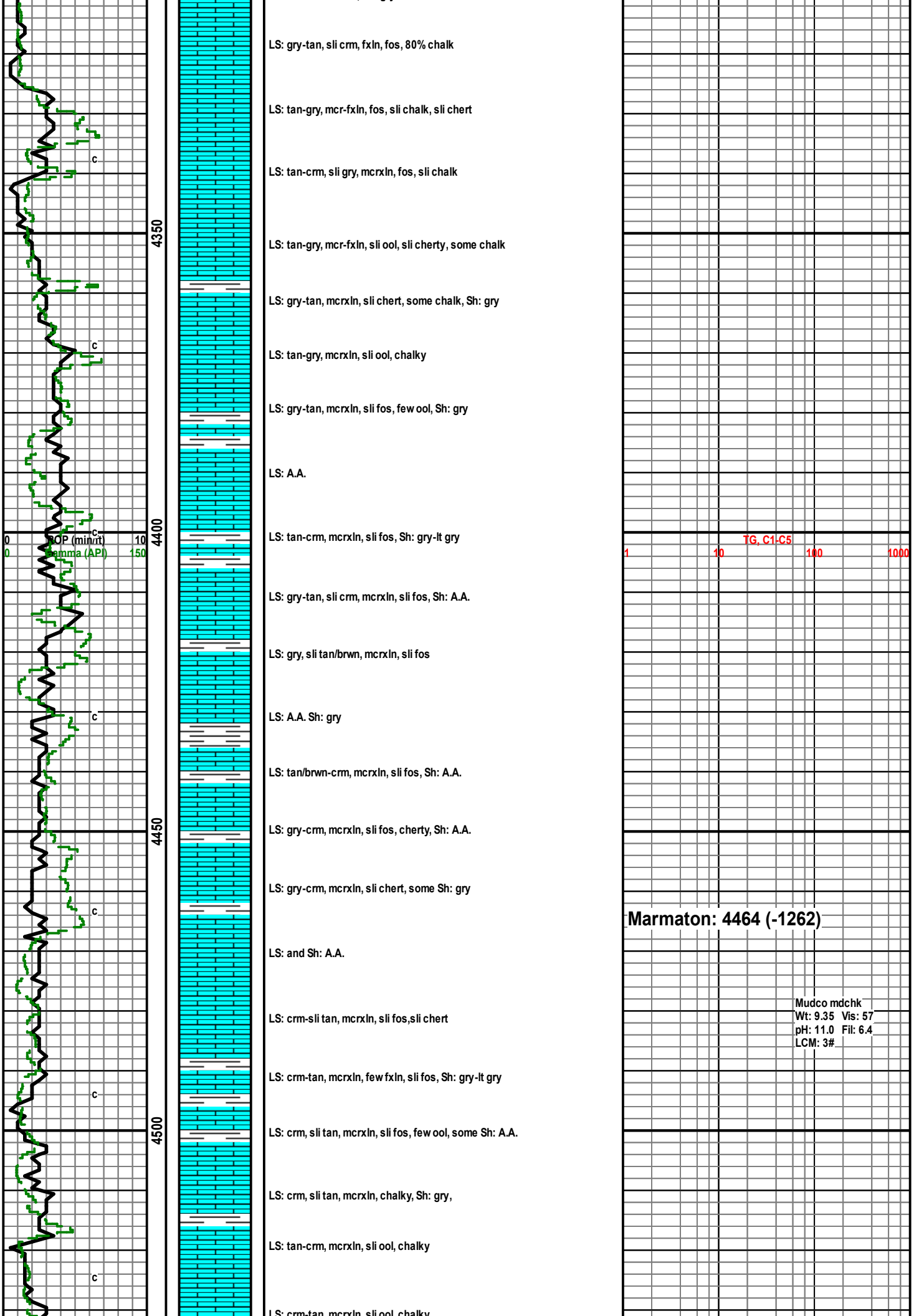
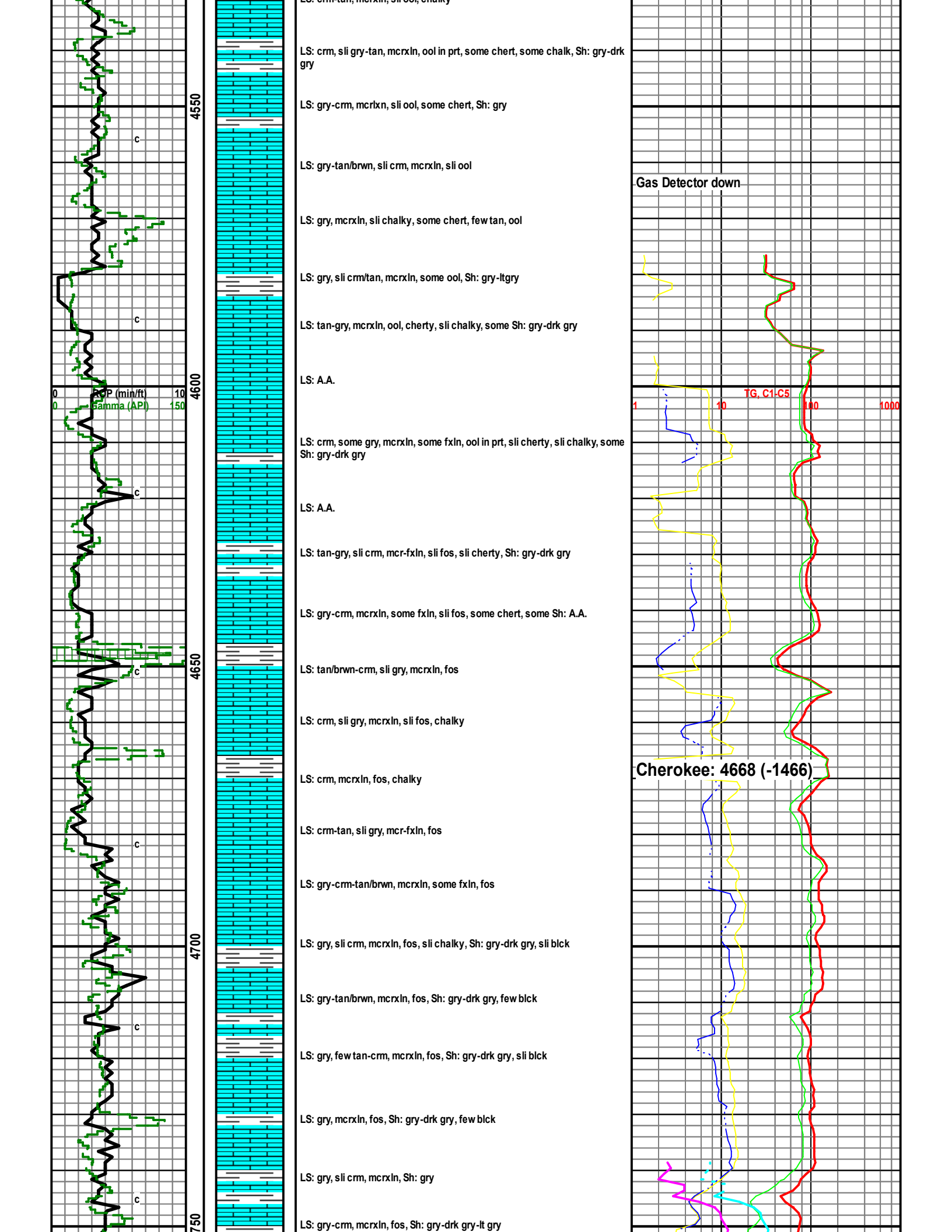
TG, C1-C5
1
10
100
1000


0
ROP (min/ft)
10
0
Gamma (API)
150
4350
4400
4450
4500
c
LS: gry-tan, sli crm, fxln, fos, 80% chalk
LS: tan-gry, mcr-fxln, fos, sli chalk, sli chert
LS: tan-crm, sli gry, mcrxln, fos, sli chalk
LS: tan-gry, mcr-fxln, sli ool, sli cherty, some chalk
LS: gry-tan, mcrxln, sli chert, some chalk, Sh: gry
LS: tan-gry, mcrxln, sli ool, chalky
LS: gry-tan, mcrxln, sli fos, few ool, Sh: gry
LS: A.A.
LS: tan-crm, mcrxln, sli fos, Sh: gry-lt gry
LS: gry-tan, sli crm, mcrxln, sli fos, Sh: A.A.
LS: gry, sli tan/brwn, mcrxln, sli fos
LS: A.A. Sh: gry
LS: tan/brwn-crm, mcrxln, sli fos, Sh: A.A.
LS: gry-crm, mcrxln, sli fos, cherty, Sh: A.A.
LS: gry-crm, mcrxln, sli chert, some Sh: gry
LS: and Sh: A.A.
LS: crm-sli tan, mcrxln, sli fos,sli chert
LS: crm-tan, mcrxln, few fxln, sli fos, Sh: gry-lt gry
LS: crm, sli tan, mcrxln, sli fos, few ool, some Sh: A.A.
LS: crm, sli tan, mcrxln, chalky, Sh: gry,
LS: tan-crm, mcrxln, sli ool, chalky
TG, C1-C5
1
10
100
1000
Marmaton: 4464 (-1262)
Mudco mdchk
Wt: 9.35 Vis: 57
pH: 11.0 Fil: 6.4
LCM: 3#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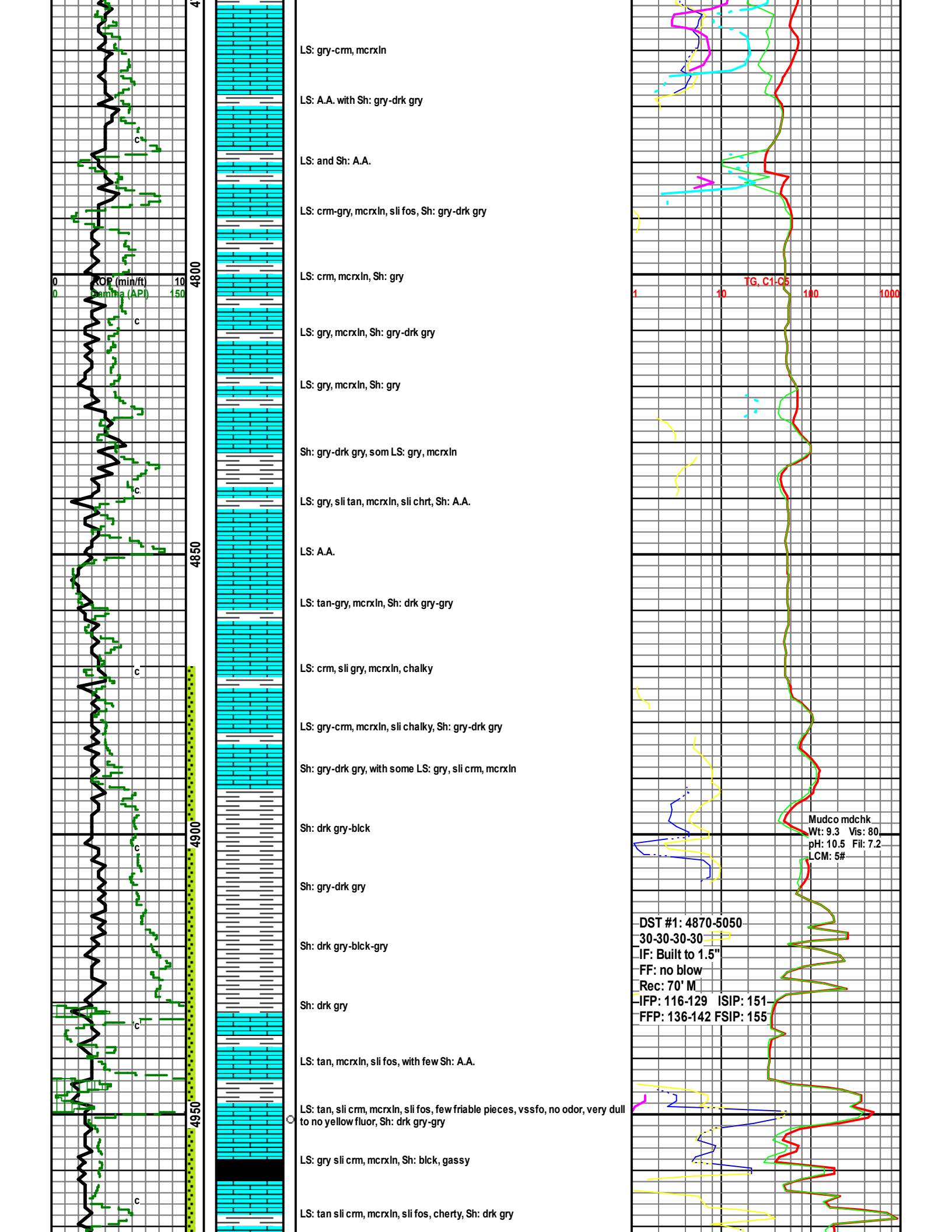
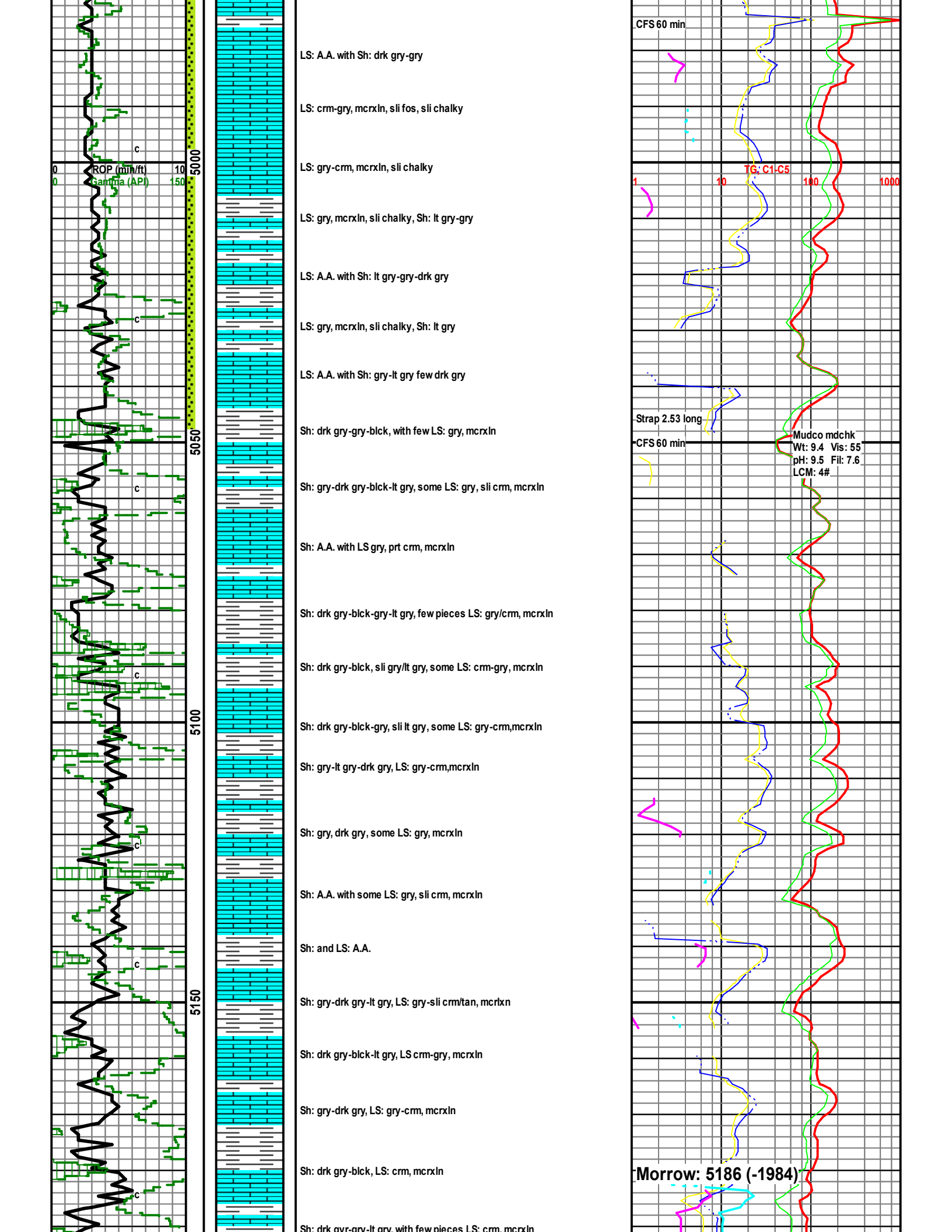
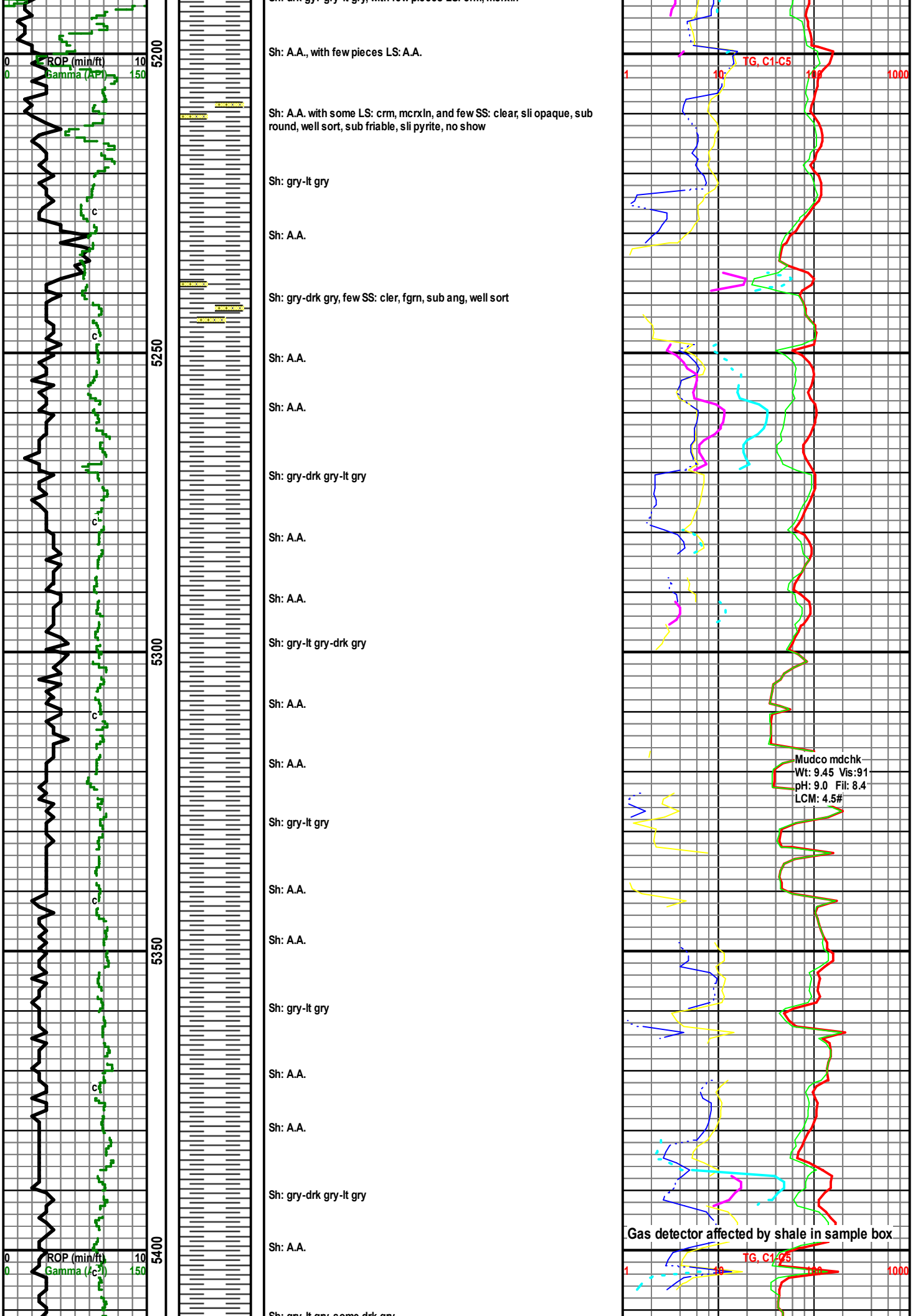
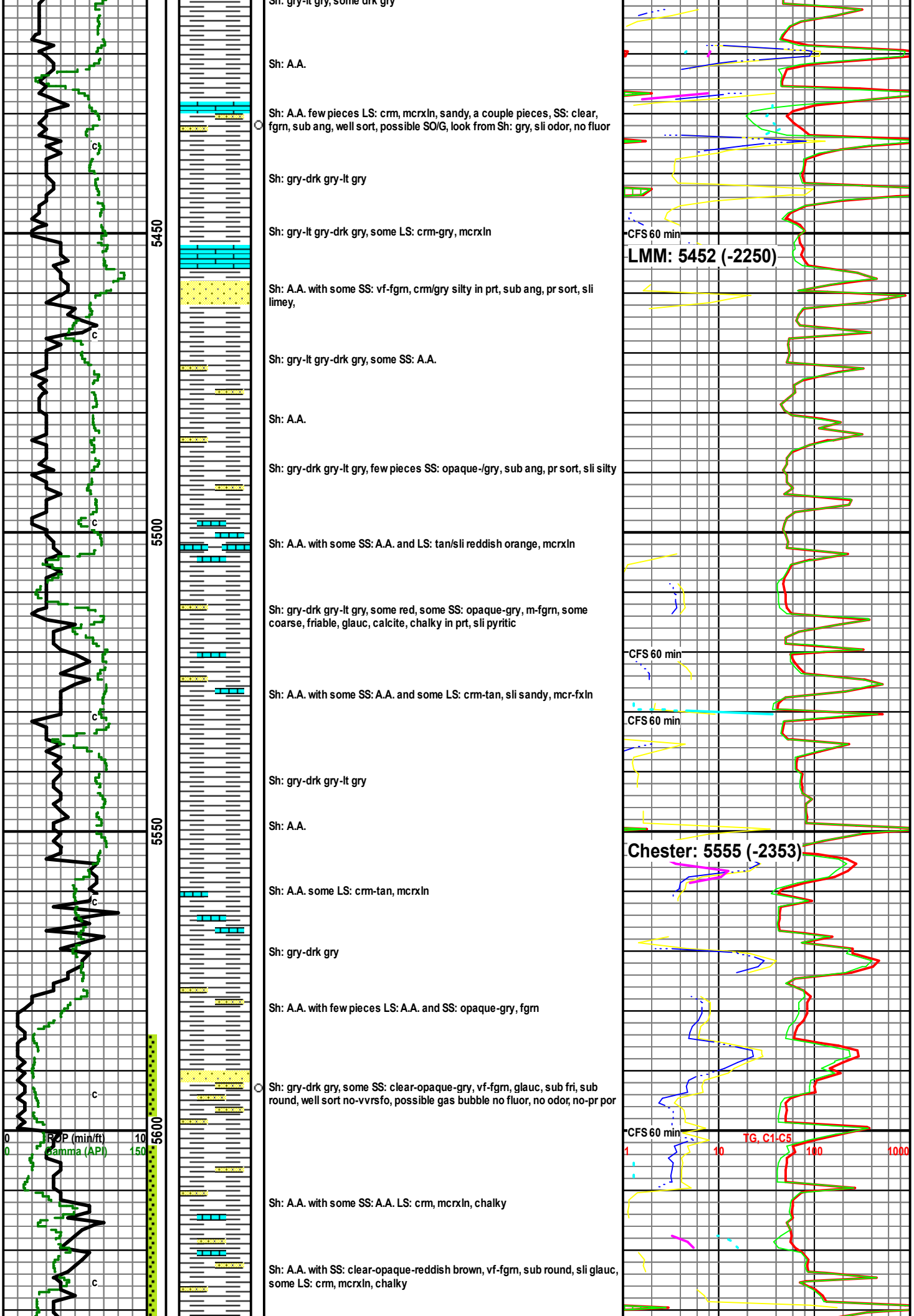
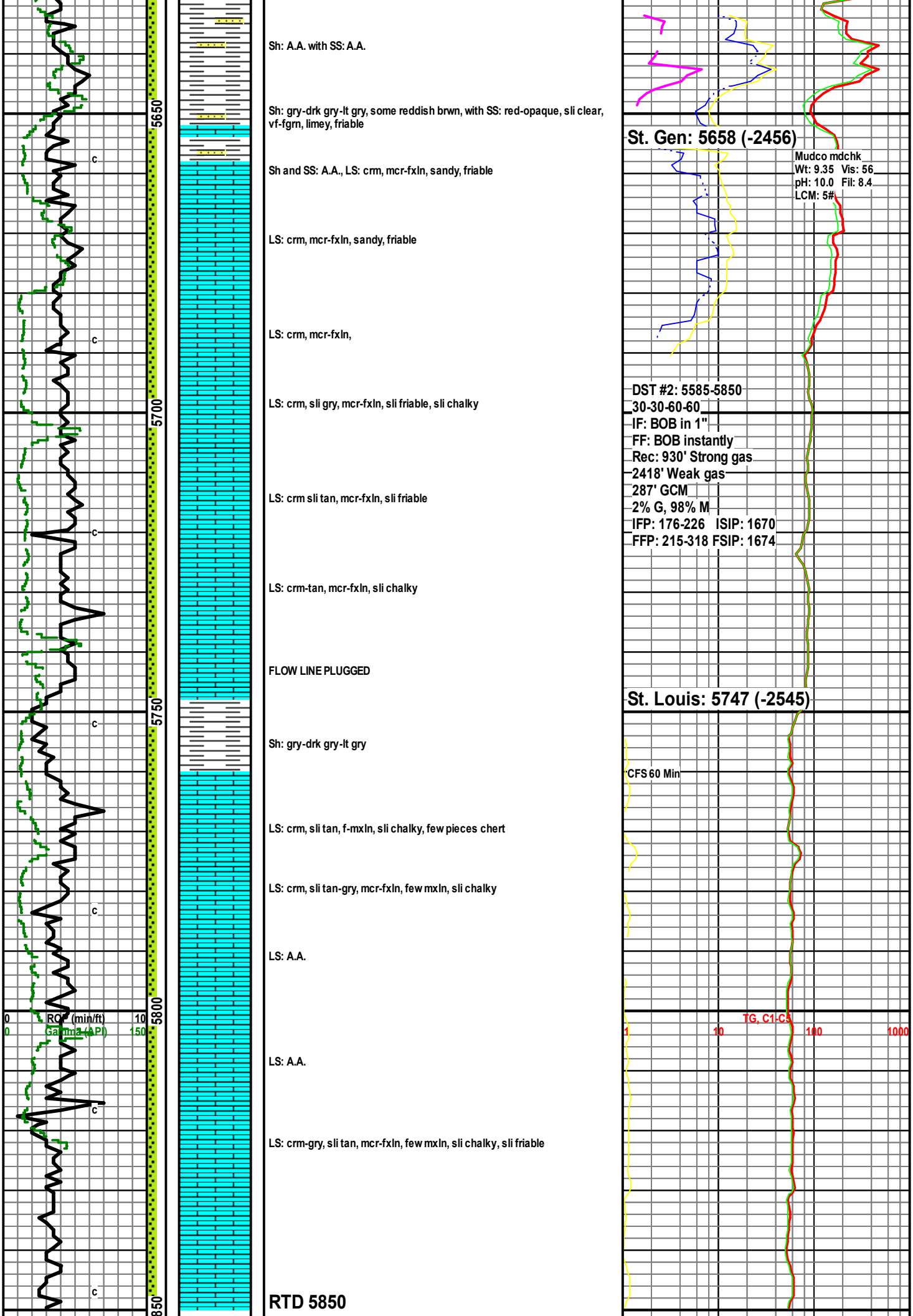
LS: gry-crm, mcrlxn, sli ool, some chert, Sh: gry
LS: gry-tan/brwn, sli crm, mcrxln, sli ool
Gas Detector down
LS: gry, mcrxln, sli chalky, some chert, few tan, ool
LS: gry, sli crm/tan, mcrxln, some ool, Sh: gry-ltgry
LS: tan-gry, mcrxln, ool, cherty, sli chalky, some Sh: gry-drk gry
LS: A.A.
0 ROP (min/ft) 10
0 Gamma (API) 150
TG, C1-C5
1 10 100 1000
LS: crm, some gry, mcrxln, some fxln, ool in prt, sli cherty, sli chalky, some Sh: gry-drk gry
LS: A.A.
LS: tan-gry, sli crm, mcr-fxln, sli fos, sli cherty, Sh: gry-drk gry
LS: gry-crm, mcrxln, some fxln, sli fos, some chert, some Sh: A.A.
LS: tan/brwn-crm, sli gry, mcrxln, fos
LS: crm, sli gry, mcrxln, sli fos, chalky
Cherokee: 4668 (-1466)
LS: crm, mcrxln, fos, chalky
LS: crm-tan, sli gry, mcr-fxln, fos
LS: gry-crm-tan/brwn, mcrxln, some fxln, fos
LS: gry, sli crm, mcrxln, fos, sli chalky, Sh: gry-drk gry, sli blck
LS: gry-tan/brwn, mcrxln, fos, Sh: gry-drk gry, few blck
LS: gry, few tan-crm, mcrxln, fos, Sh: gry-drk gry, sli blck
LS: gry, mcrxln, fos, Sh: gry-drk gry, few blck
LS: gry, sli crm, mcrxln, Sh: gry
LS: gry-crm, mcrxln, fos, Sh: gry-drk gry-lt gry
4550
4600
4650
4700
4750
c

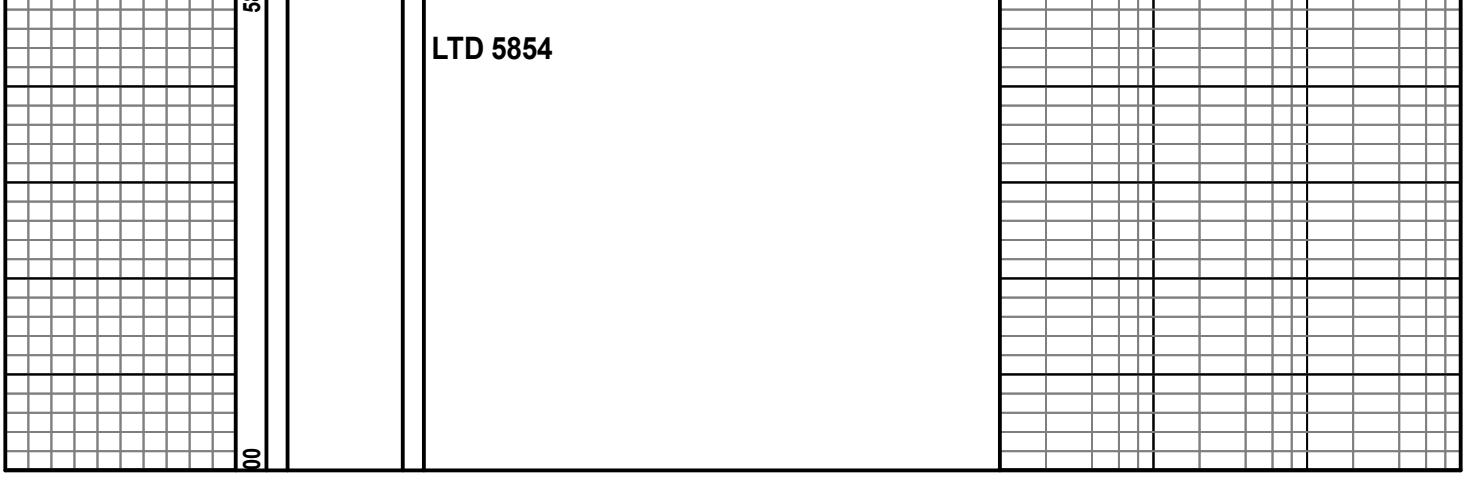

ROP (min/ft)
0
10
Gamma (API)
0
150
4800
4850
4900
4950
TG, C1-C5
1
10
100
1000
LS: gry-crm, mcrxln
LS: A.A. with Sh: gry-drk gry
LS: and Sh: A.A.
LS: crm-gry, mcrxln, sli fos, Sh: gry-drk gry
LS: crm, mcrxln, Sh: gry
LS: gry, mcrxln, Sh: gry-drk gry
LS: gry, mcrxln, Sh: gry
Sh: gry-drk gry, som LS: gry, mcrxln
LS: gry, sli tan, mcrxln, sli chrt, Sh: A.A.
LS: A.A.
LS: tan-gry, mcrxln, Sh: drk gry-gry
LS: crm, sli gry, mcrxln, chalky
LS: gry-crm, mcrxln, sli chalky, Sh: gry-drk gry
Sh: gry-drk gry, with some LS: gry, sli crm, mcrxln
Sh: drk gry-blck
Sh: gry-drk gry
Sh: drk gry-blck-gry
Sh: drk gry
LS: tan, mcrxln, sli fos, with few Sh: A.A.
LS: tan, sli crm, mcrxln, sli fos, few friable pieces, vssfo, no odor, very dull to no yellow fluor, Sh: drk gry-gry
LS: gry sli crm, mcrxln, Sh: blck, gassy
LS: tan sli crm, mcrxln, sli fos, cherty, Sh: drk gry
Mudco mdchk
Wt: 9.3 Vis: 80
pH: 10.5 Fil: 7.2
LCM: 5#
DST #1: 4870-5050
30-30-30-30
IF: Built to 1.5"
FF: no blow
Rec: 70' M
IFP: 116-129 ISIP: 151
FFP: 136-142 FSIP: 155


0
ROP (min/ft)
10
0
Gamma (API)
150
5000
5050
5100
5150
LS: A.A. with Sh: drk gry-gry
LS: crm-gry, mcrxln, sli fos, sli chalky
LS: gry-crm, mcrxln, sli chalky
LS: gry, mcrxln, sli chalky, Sh: lt gry-gry
LS: A.A. with Sh: lt gry-gry-drk gry
LS: gry, mcrxln, sli chalky, Sh: lt gry
LS: A.A. with Sh: gry-lt gry few drk gry
Sh: drk gry-gry-blck, with few LS: gry, mcrxln
Sh: gry-drk gry-blck-lt gry, some LS: gry, sli crm, mcrxln
Sh: A.A. with LS gry, prt crm, mcrxln
Sh: drk gry-blck-gry-lt gry, few pieces LS: gry/crm, mcrxln
Sh: drk gry-blck, sli gry/lt gry, some LS: crm-gry, mcrxln
Sh: drk gry-blck-gry, sli lt gry, some LS: gry-crm,mcrxln
Sh: gry-lt gry-drk gry, LS: gry-crm,mcrxln
Sh: gry, drk gry, some LS: gry, mcrxln
Sh: A.A. with some LS: gry, sli crm, mcrxln
Sh: and LS: A.A.
Sh: gry-drk gry-lt gry, LS: gry-sli crm/tan, mcrlxn
Sh: drk gry-blck-lt gry, LS crm-gry, mcrxln
Sh: gry-drk gry, LS: gry-crm, mcrxln
Sh: drk gry-blck, LS: crm, mcrxln
Sh: drk gyr-gry-lt gry, with few pieces LS: crm, mcrxln
CFS 60 min
TG: C1-C5
1
10
100
1000
Strap 2.53 long
CFS 60 min
Mudco mdchk
Wt: 9.4 Vis: 55
pH: 9.5 Fil: 7.6
LCM: 4#
Morrow: 5186 (-1984)


0 ROP (min/ft) 10
0 Gamma (API) 150
5200
5250
5300
5350
5400
c
Sh: A.A., with few pieces LS: A.A.
Sh: A.A. with some LS: crm, mcrxln, and few SS: clear, sli opaque, sub round, well sort, sub friable, sli pyrite, no show
Sh: gry-lt gry
Sh: A.A.
Sh: gry-drk gry, few SS: cler, fgrn, sub ang, well sort
Sh: A.A.
Sh: A.A.
Sh: gry-drk gry-lt gry
Sh: A.A.
Sh: A.A.
Sh: gry-lt gry-drk gry
Sh: A.A.
Sh: A.A.
Sh: gry-lt gry
Sh: A.A.
Sh: A.A.
Sh: gry-lt gry
Sh: A.A.
Sh: A.A.
Sh: gry-drk gry-lt gry
Sh: A.A.
Sh: gry-lt gry-some drk gry
TG, C1-C5
1
10
100
1000
Mudco mdchk
Wt: 9.45 Vis:91
pH: 9.0 Fil: 8.4
LCM: 4.5#
Gas detector affected by shale in sample box
TG, C1-C5
1
10
100
1000


Sh: gry-lt gry, some drk gry
Sh: A.A.
Sh: A.A. few pieces LS: crm, mcrxln, sandy, a couple pieces, SS: clear, fgrn, sub ang, well sort, possible SO/G, look from Sh: gry, sli odor, no fluor
Sh: gry-drk gry-lt gry
Sh: gry-lt gry-drk gry, some LS: crm-gry, mcrxln
Sh: A.A. with some SS: vf-fgrn, crm/gry silty in prt, sub ang, pr sort, sli limey,
Sh: gry-lt gry-drk gry, some SS: A.A.
Sh: A.A.
Sh: gry-drk gry-lt gry, few pieces SS: opaque-/gry, sub ang, pr sort, sli silty
Sh: A.A. with some SS: A.A. and LS: tan/sli reddish orange, mcrxln
Sh: gry-drk gry-lt gry, some red, some SS: opaque-gry, m-fgrn, some coarse, friable, glauc, calcite, chalky in prt, sli pyritic
Sh: A.A. with some SS: A.A. and some LS: crm-tan, sli sandy, mcr-fxln
Sh: gry-drk gry-lt gry
Sh: A.A.
Sh: A.A. some LS: crm-tan, mcrxln
Sh: gry-drk gry
Sh: A.A. with few pieces LS: A.A. and SS: opaque-gry, fgrn
Sh: gry-drk gry, some SS: clear-opaque-gry, vf-fgrn, glauc, sub fri, sub round, well sort no-vvrsfo, possible gas bubble no fluor, no odor, no-pr por
Sh: A.A. with some SS: A.A. LS: crm, mcrxln, chalky
Sh: A.A. with SS: clear-opaque-reddish brown, vf-fgrn, sub round, sli glauc, some LS: crm, mcrxln, chalky
CFS 60 min
LMM: 5452 (-2250)
CFS 60 min
CFS 60 min
Chester: 5555 (-2353)
CFS 60 min
TG, C1-C5
1
10
100
1000
5450
5500
5550
5600
C
0
ROP (min/ft)
10
0
Gamma (API)
150


5650
5700
5750
5800
5850
ROP (min/ft) 0 10
Gamma (API) 0 150
Sh: A.A. with SS: A.A.
Sh: gry-drk gry-lt gry, some reddish brwn, with SS: red-opaque, sli clear, vf-fgrn, limey, friable
Sh and SS: A.A., LS: crm, mcr-fxln, sandy, friable
LS: crm, mcr-fxln, sandy, friable
LS: crm, mcr-fxln,
LS: crm, sli gry, mcr-fxln, sli friable, sli chalky
LS: crm sli tan, mcr-fxln, sli friable
LS: crm-tan, mcr-fxln, sli chalky
FLOW LINE PLUGGED
Sh: gry-drk gry-lt gry
LS: crm, sli tan, f-mxln, sli chalky, few pieces chert
LS: crm, sli tan-gry, mcr-fxln, few mxln, sli chalky
LS: A.A.
LS: A.A.
LS: crm-gry, sli tan, mcr-fxln, few mxln, sli chalky, sli friable
RTD 5850
St. Gen: 5658 (-2456)
Mudco mdchk
Wt: 9.35 Vis: 56
pH: 10.0 Fil: 8.4
LCM: 5#
DST #2: 5585-5850
30-30-60-60
IF: BOB in 1"
FF: BOB instantly
Rec: 930' Strong gas
2418' Weak gas
287' GCM
2% G, 98% M
IFP: 176-226 ISIP: 1670
FFP: 215-318 FSIP: 1674
St. Louis: 5747 (-2545)
CFS 60 Min
TG, C1-C5
1
10
100
1000


500
LTD 5854

BASIC ENERGY SERVICES

PRESSURE PUMPING

Liberal Yard #171 Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

Job Log

Customer:	Palomino Petroleum	Cement Pump No.:	38119-19570	Operator TRK No.:	78939	
Address:	4924 SE 84th St	Ticket #:	1718-13228	Bulk TRK No.:	19831-14284	14355-37725
City, State, Zip:	Newton Ks 67114	Job Type:	Z42 Cement Surface Casing			
Service District:		Well Type:	OIL			
Well Name and No.:	Milton #1	Well Location:		County: Stanton	State:	Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
A-CON	440	2% C.C., 1/4# POLYFLAKE	19831-14284	Front	Back
PREMIUM PLUS	150	2% C.C., 1/4# POLYFLAKE	14355-37725	Front	Back
				Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	11.4	2.95	18.1	1298	Man Hours:	10
Tail:	14.8	1.34	6.33	201	# of Men on Job:	4

Time (am/pm)	(BPM)	Volume (BBLS)	Pumps T	Pumps C	Pressure(PSI) Tubing	Pressure(PSI) Casing	Description of Operation and Materials
14:00							ON LOC, SAFETY MTG, R.U.
21:39							CSG ON BOTTOM, BREAK CIRC
10:14 PM						2000	TEST LINES
10:16 PM	5	231				200	START MIXING LEAD @11.4#
10:49 PM	5	36				150	ON TAIL @ 14.8#
22:58							SHUT DOWN, DROP PLUG
23:00	5						START DISPLACEMENT, WASH UP ON PLUG
11:24 PM	2	98				500	SLOW RATE
11:30		108				500-1000	PLUG DOWN
11:32						1000-0	RELEASE PSI, FLOAT HELD
							JOB COMPLETE

Size Hole		Depth				TYPE		
Size & Wt. Csg.		Depth		New / Used		Packer		Depth
tbg.		Depth				Retainer		Depth
Top Plugs		Type				Perfs		CIBP

Customer Signature:	Basic Representative:	Chad Hinz
	Basic Signature:	
	Date of Service:	

Liberal Yard #171 Phone 620-624-2277 - 1700 S. Country Esta. Road, Liberal KS 67901

Job Log

Customer:	Ken White Exploration	Cement Pump No.:	38119-19570	Operator TRK No.:	78939		
Address:		Ticket #:	1718-13232	Bulk TRK No.:	19831-14284	14354-19578	
City, State, Zip:		Job Type:	Z42 Cement Production Casing				
Service District:		Well Type:	OIL				
Well Name and No.:	Milton #1	Well Location:	4,30,39	County:	Stanton	State:	Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
AA-2	260		19831-14284	Front	Back
ACON/PREM PLUS	340		14354-19578	Front	Back
ACON	350		30463-37547	Front	Back

	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead/Tail:						
Lead:	11.4	2.93	18	761.8	Man Hours:	
Tail:	14.8	1.51	6.64	513.4	# of Men on Job:	5

Time (am/pm)	(BPM)	Volume (BBLS)	Pumps T	Pumps C	Pressure(PSI) Tubing	Pressure(PSI) Casing	Description of Operation and Materials
5:30							ON LOC
11:30							TRUCKS ON OLC, SAFTEY MTG, R.U.
4:00 PM							CSG ON BOTTOM. BREAK CIRC
5:41 PM						3400	TEST LINES
5:46 PM	8					550	START MIXING 100SX ACON @11.4#
17:52	7.5	52				400	MIX 260 SX AA-2 @14.8#
18:04		70					FINISHED MIXING, DROP PLUG, WASHUP
6:11 PM	8					200	START DISPLACEMENT
18:23	3	83				850	SLOW RATE
18:26		93				850-1400	PLUG DOWN
18:28						1400-0	RELEASE PSI, FLOAT HELD
18:30							DROP BOMB
18:45		3				1200-200	OPEN TOOL
18:49							HOOK TO RIG BREAK CIRC
21:23							PLUG RAT HOLE
18:26	6					550	START MIXING 410SX ACON @11.4#
22:00	7.5	216				250	MIX 130 SX PREMIUM PLUS@ 14.8#
22:06		31					FINISHED MIXING, DROP PLUG, WASHUP
22:11	6					200	START DISPLACEMENT
22:19	2	40				600	SLOW RATE
22:24		50				800-1400	PLUG DOWN CLOSE TOOL
22:26							RELEASE PSI, FLOAT HELD
							JOB COMPLETE

Size Hole		Depth				TYPE			
Size & Wt. Csg.	4 1/2 11.6	Depth	6018.22	New / Used	USED?	Packer		Depth	
tbg.		Depth				Retainer		Depth	
Top Plugs		Type				Perfs		CIBP	

Customer Signature:	Basic Representative:	CHAD HINZ
	Basic Signature:	
	Date of Service:	1/31/2016

DRILL STEM TEST REPORT

Palomino Petroleum Inc.

4924 SE 84th
New ton Ks 67114

ATTN: Andy White

4-30-39 Stanton,KS

#1 Milton

Job Ticket: 64565 **DST#: 1**

Test Start: 2016.01.27 @ 05:45:15

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:07:15
Time Test Ended: 12:08:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Mike Roberts
Unit No: 75

Interval: 4870.00 ft (KB) To 5050.00 ft (KB) (TVD)
Total Depth: 5050.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

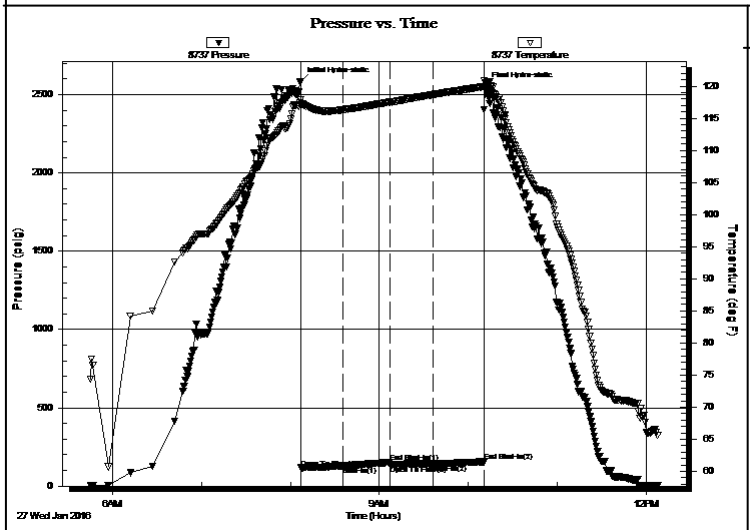
Reference Elevations: 3202.00 ft (KB)
3197.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8737 **Outside**

Press@RunDepth: 142.47 psig @ 4876.00 ft (KB)
Start Date: 2016.01.27 End Date: 2016.01.27
Start Time: 05:45:15 End Time: 12:08:00

Capacity: 8000.00 psig
Last Calib.: 2016.01.27
Time On Btm: 2016.01.27 @ 08:07:00
Time Off Btm: 2016.01.27 @ 10:11:30

TEST COMMENT: IF:Built to 1 1/2" blow
IS:No return blow
FF:No blow
FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2583.79	117.92	Initial Hydro-static
1	116.34	116.95	Open To Flow (1)
29	129.18	116.32	Shut-In(1)
61	151.88	117.52	End Shut-In(1)
61	136.20	117.52	Open To Flow (2)
90	142.47	118.69	Shut-In(2)
124	155.53	119.92	End Shut-In(2)
125	2548.59	120.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	mud 100%m	0.34

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc.

4924 SE 84th
New ton Ks 67114

ATTN: Andy White

4-30-39 Stanton,KS

#1 Milton

Job Ticket: 64565 **DST#: 1**

Test Start: 2016.01.27 @ 05:45:15

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	80.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.19 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2060.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

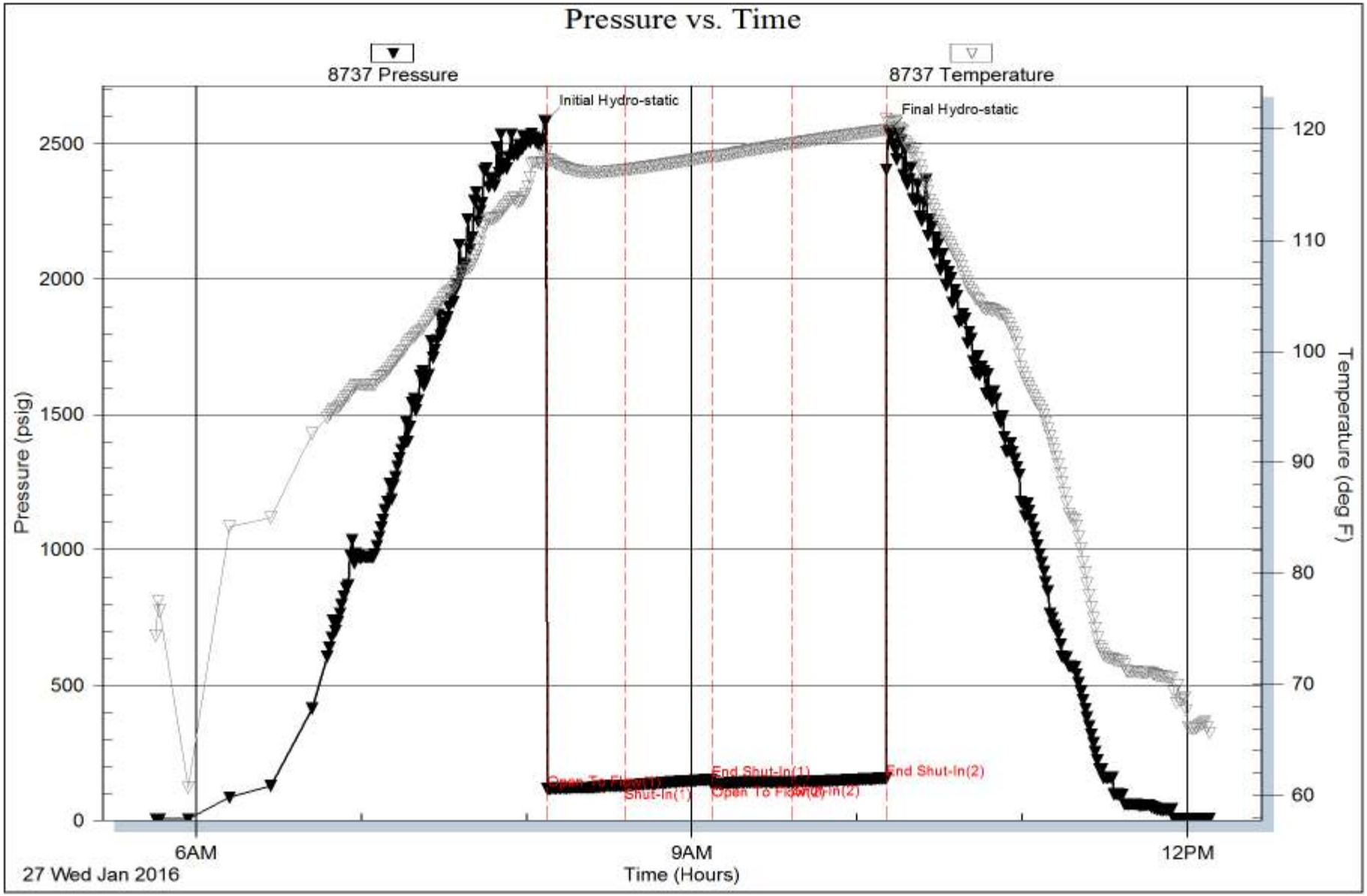
Recovery Table

Length ft	Description	Volume bbl
70.00	mud 100%m	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8737 **Outside** Palomino Petroleum Inc. #1 Milton DST Test Number: 1



Trilobite Testing, Inc Ref. No: 64565 Printed: 2016.01.27 @ 14:04:33

DRILL STEM TEST REPORT

Palomino Petroleum Inc.

4924 SE 84th New ton Ks
67114

ATTN: Andy White

4-30-39 Stanton Co KS

#1 Milton

Job Ticket: 64566 **DST#: 2**

Test Start: 2016.01.30 @ 10:37:15

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:31:00
Time Test Ended: 18:08:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Mike Roberts
Unit No: 75

Interval: 5585.00 ft (KB) To 5850.00 ft (KB) (TVD)
Total Depth: 5850.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

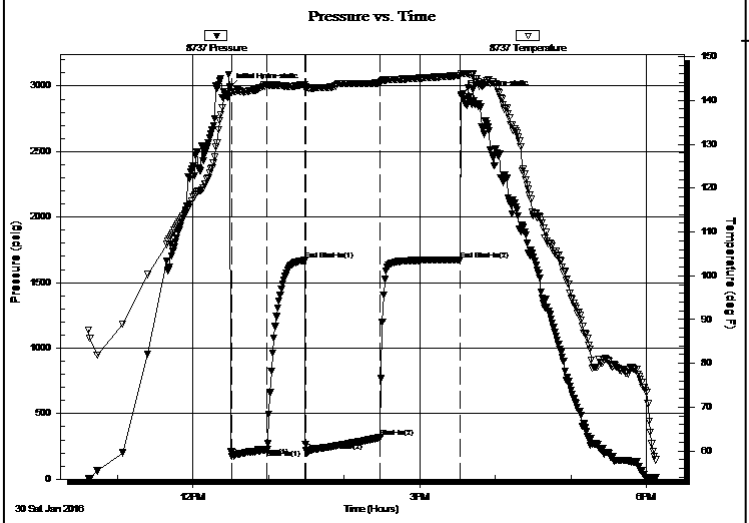
Reference Elevations: 3202.00 ft (KB)
3197.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8737 **Outside**

Press@RunDepth: 318.11 psig @ 5588.00 ft (KB)
Start Date: 2016.01.30 End Date: 2016.01.30
Start Time: 10:37:15 End Time: 18:08:00

Capacity: 8000.00 psig
Last Calib.: 2016.01.30
Time On Btm: 2016.01.30 @ 12:29:30
Time Off Btm: 2016.01.30 @ 15:33:00

TEST COMMENT: IF:BOB in 1 min.
IS:No return blow
FF:BOB instantly
FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2989.89	141.53	Initial Hydro-static
2	176.14	141.96	Open To Flow (1)
30	226.65	143.42	Shut-In(1)
60	1670.04	143.61	End Shut-In(1)
61	215.45	143.03	Open To Flow (2)
120	318.11	144.01	Shut-In(2)
183	1674.84	145.65	End Shut-In(2)
184	2934.90	146.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP= 930 strong gas	0.00
0.00	GIP= 2418 w eak gas	0.00
287.00	gcm 2%g 98%m	2.95

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Palomino Petroleum Inc.

4924 SE 84th New ton Ks
67114

ATTN: Andy White

4-30-39 Stanton Co KS

#1 Milton

Job Ticket: 64566 **DST#: 2**

Test Start: 2016.01.30 @ 10:37:15

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:31:00
Time Test Ended: 18:08:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Mike Roberts
Unit No: 75

Interval: 5585.00 ft (KB) To 5850.00 ft (KB) (TVD)
Total Depth: 5850.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

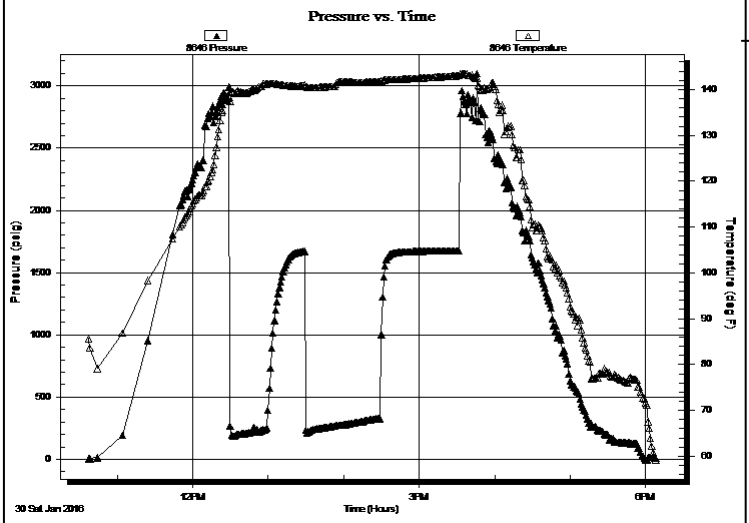
Reference Elevations: 3202.00 ft (KB)
3197.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8646

Press@RunDepth: psig @ ft (KB)
Start Date: 2016.01.30 End Date: 2016.01.30
Start Time: 10:37:15 End Time: 18:08:00

Capacity: 8000.00 psig
Last Calib.: 2016.01.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF:BOB in 1 min.
IS:No return blow
FF:BOB instantly
FS:No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP= 930 strong gas	0.00
0.00	GIP= 2418 w eak gas	0.00
287.00	gcm 2%g 98%m	2.95

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc.

4924 SE 84th New ton Ks
67114

ATTN: Andy White

4-30-39 Stanton Co KS

#1 Milton

Job Ticket: 64566 **DST#: 2**

Test Start: 2016.01.30 @ 10:37:15

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.37 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1400.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

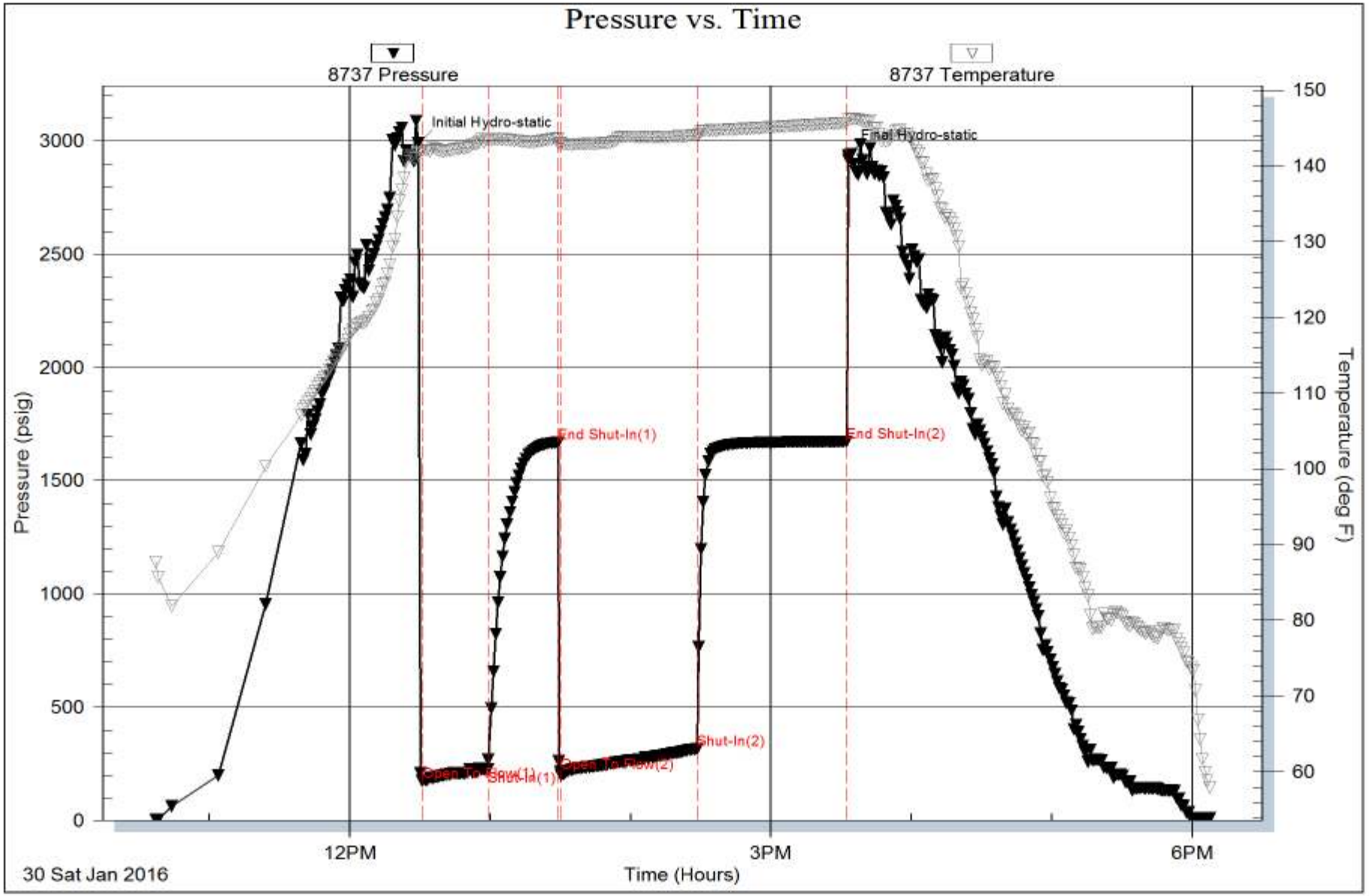
Recovery Table

Length ft	Description	Volume bbl
0.00	GIP= 930 strong gas	0.000
0.00	GIP= 2418 w eak gas	0.000
287.00	gcm 2%g 98%m	2.951

Total Length: 287.00 ft Total Volume: 2.951 bbl

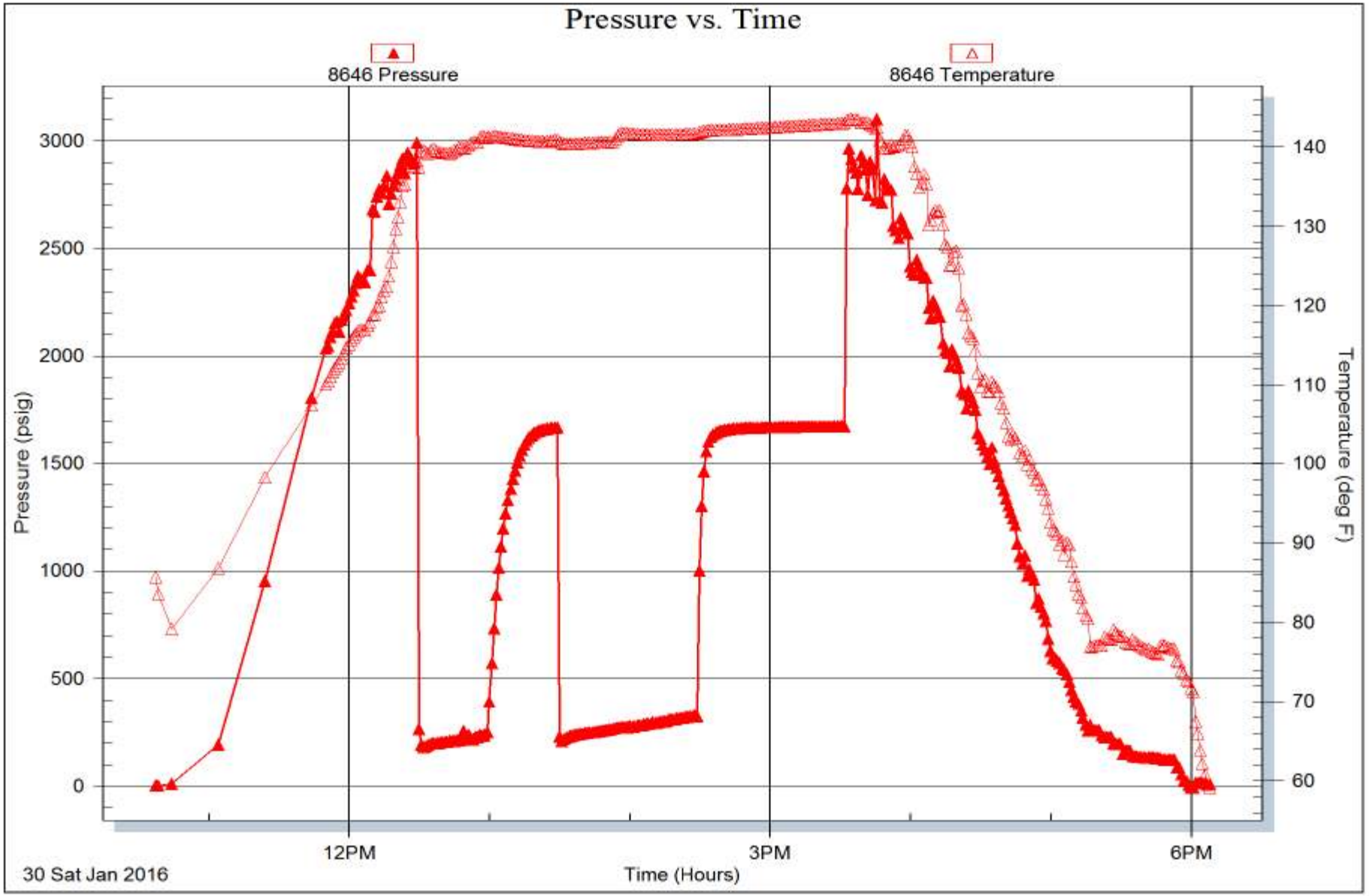
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8737 **Outside** Palomino Petroleum Inc. #1 Milton DST Test Number: 2



Trilobite Testing, Inc Ref. No: 64566 Printed: 2016.01.30 @ 19:00:25

Serial #: 8646 | Palomino Petroleum Inc. | #1 Milton | DST Test Number: 2



Trilobite Testing, Inc | Ref. No: 64566 | Printed: 2016.01.30 @ 19:00:25