Covey
The Well Watchers

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

Well Name:	TROMPETER #1 - 19
Location:	Section 19 - Township 14 South - Range 34 West
Licence Number:	15-109-21,115. 0000 Region: Logan County, KS.
Spud Date:	24 July 2012 Drilling Completed:
Surface Coordinates:	2,785' FNL & 1,627' FEL , SE/4 (Approximately NE NE NW SE)
Bottom Hole Coordinates:	
Ground Elevation (ft):	3,170' K.B. Elevation (ft): 3,180'
Logged Interval (ft):	3,400' To: Total Depth (ft):
Formation:	Stotler ------> Miss (St. Louis)
Type of Drilling Fluid:	Chemical; Low Solids (non-dispersed)

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

OPERATOR

Company: NEW GULF OPERATING, LLC.
Address: 6310 East 102nd Street
Tulsa, Oklahoma 74137
(918) 728-3020

POC Geologist:
Joe Baker

GEOLOGIST

Name: Curtis Covey
Company: COVEY - The Well Watchers
Address: 6548 Bedford Circle
Derby,Kansas 67037
Office: (316) 776 - 0367 Cell: (316) 258-9976

KB: 3,180'

FORMATION TOPS

GL: 3,170'

Formation	Rotary Sample Depth (Datum)	E-log Depth (Datum)
Anhydrite	2,543' (+637')	
B / Anhydrite	2,562' (+618')	
Stotler	3,634' (-454')	
Topeka	3,756' (-576')	
Heebner Shale	3,985' (-805')	
Toronto	4,004' (-824')	
Lansing	4,035' (-835')	
Muncie Creek SH		
Stark SH		
B / KC		
Marmaton		
Pawnee LS		
Cherokee Sh		
'Johnson' Zone		
Morrow SH		
Sandstone		
Mlss (Lithological)		

RTD: LTD: ATD: E-log is to rotary sample depth.

Loggers:
Log Tech - Hays, Kansas

2012

DAILY DRILLING STATUS -- JULY

2012

12-1/4" Hole

24 July --- Spud @ 8:30pm.
25 --- Drill to 270'.
Run 8-5/8" casing (23#)
Set casing @ 266'.
Cemented w/ 225 sx Class A
(2% Gel + 3% CC).
[Consolidated]
Cement did circulate.
Plug down @ 2:30am.
WOC.

7-7/8" Hole

25 July --- WOC.
6:30am @ 270'.
Under surface casing @ 11:15am.
26 --- 6:30am @ 1,825'.
27 --- 6:30am @ 2,880'.
Displace Mud @ 3,414'.
28 --- 6:30am @ 3,540'.
29 --- Short Trip: 25 stands @ 3,970'.
6:30am @ 4,028'. DST #1:
Lansing 'B' (4,070'-4,085').
Resumed Drilling @
30 --- 6:30am @

7-7/8" Hole

HOLE DEVIATION (270' - ')

DEPTH / TVD	--- INCLINATION	AZIMUTH	NORTH	SOUTH	EAST	WEST	DOGLEG deg/100'
270' /	--- 1.00 (Surface)						
1,271' /	--- 2.00						
2,272' /	--- 0.75						
3,557' /	--- 0.75						
4,085' /	--- (DST #1)						

STRAP @ DST #1

Board:
Strap:
Diff:

CONTRACTOR

VAL Energy --- Rig #4

10,500 E. Berkeley Square Parkway, Suite 1000
Wichita, Kansas 67230
Office: (316) 636-2090

Pump: National K-500A
6" x 15" @ 58 SPM.
800-950 PSI @ Standpipe.

After Mudup / Main Hole:
WOB 35M/40M @ 7\0/75 RPM.

Drill Collars: 6-1/8" x 2.50" --- 546'. (83.5#/ft)
Dry Collar Weight: 45,591#
(@ 8.9 ppg / Buoyancy Factor 0.8645)
Bouyancy Collar Weight: 39,413#
Design Factor: 15%, therefore:
available WOB is 33,501#
Drill Pipe: 4-1/2"XH. (16#/ft - used)

Rig #4 - (620) 617-2793 Toolpusher: Larry Hinderliter - (620) 804-0097

BIT RECORD

DATE	SIZE	TYPE	JET SIZE	DEPTH IN / OUT	CUM. FT.	HOURS	ROP
24 July 2012	12-1/4"	JZ RR	3 / 15's	0' /270'	270'	2.00	135.0
25 July 2012	7-7/8"	JZ HA QX-20	13 - 13 - 13	270' /			

ROCK TYPES

POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

LITHOLOGY

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Granite wash
- Congl
- Dol lmst
- Silty dol
- Calc dol
- Dol 2
- Dol
- Gyp
- Igne
- Lmst 2
- Lmst
- Meta
- Mrlst
- Salt
- Shale 3
- Shale 3
- Shale
- Shcol
- Shgy
- Sltst
- Ss
- Till
- Ss 2

MINERAL

- Mica
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Chalk
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Copper
- Ooliticastic
- Ooloid
- Oolite
- Sucrosic
- Dark specks

STRINGER

- Calc dol
- Silty dol
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Calc dol
- Sltstrg
- Ssstrg
- Chalk
- New symbol

SHOW

- Oil
- Spotted
- Ques
- Dead
- Gas
- Oil/gas
- Bed contact

ACCESSORIES

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Spore
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

MINERAL

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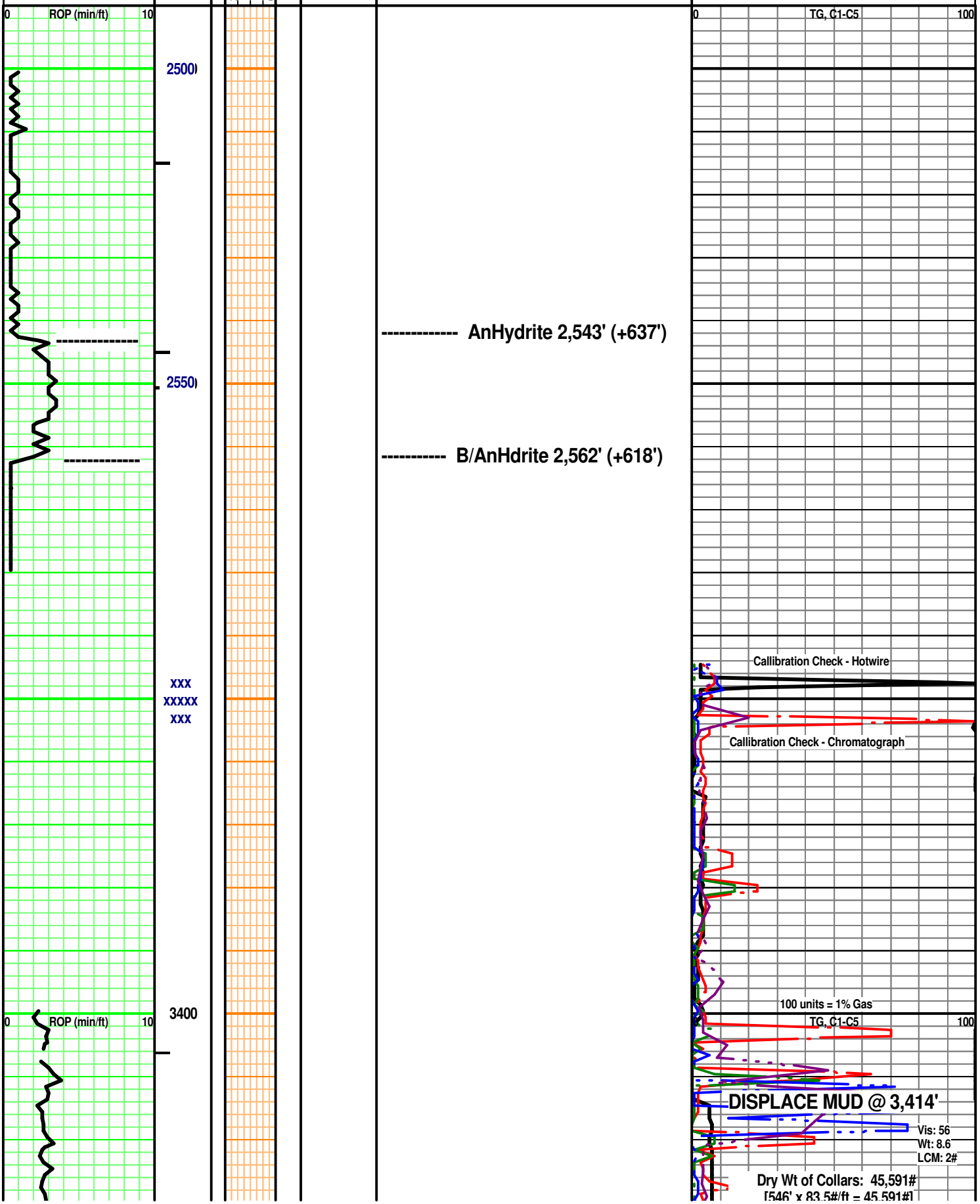
OTHER SYMBOLS

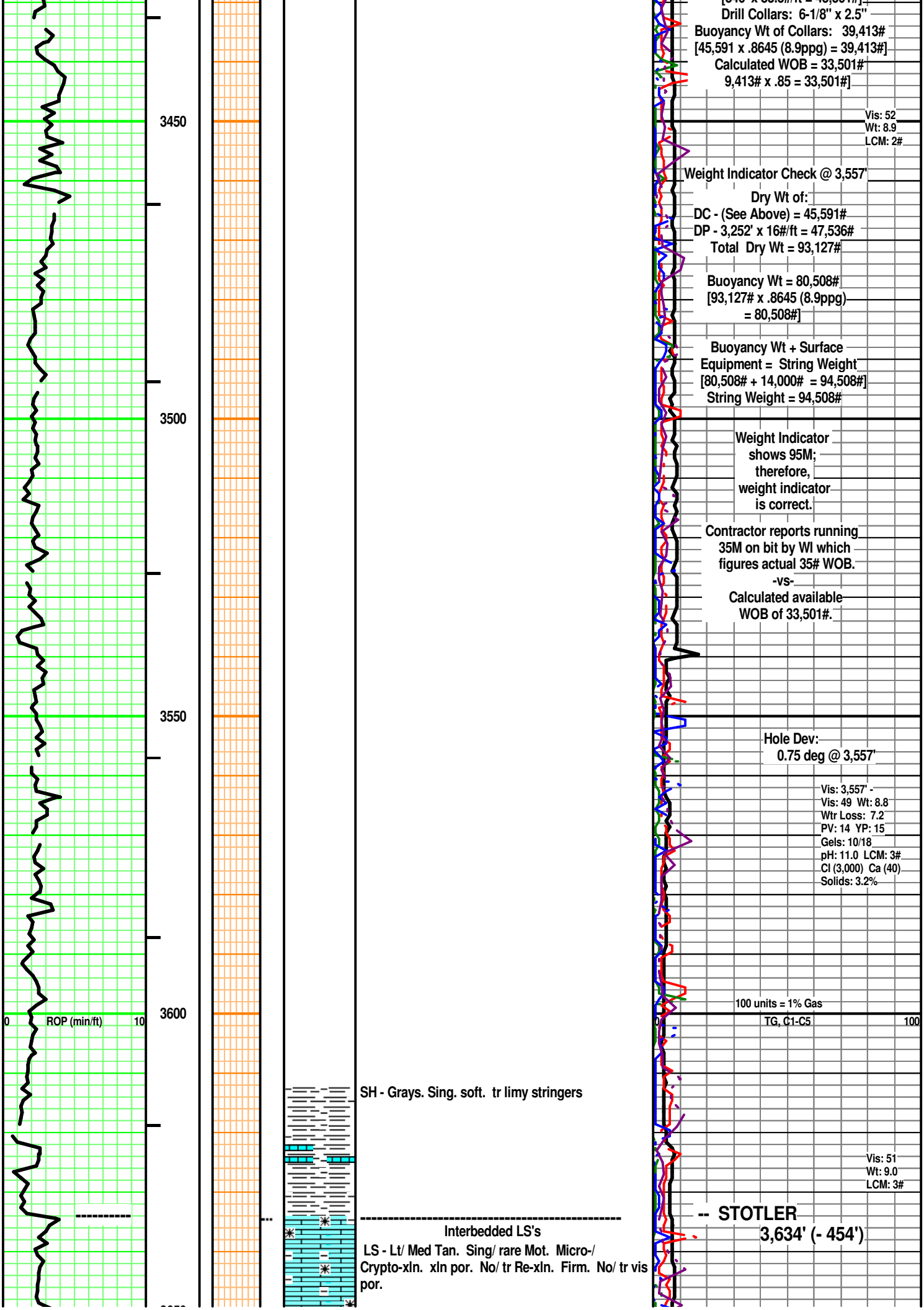
ACTIVITY

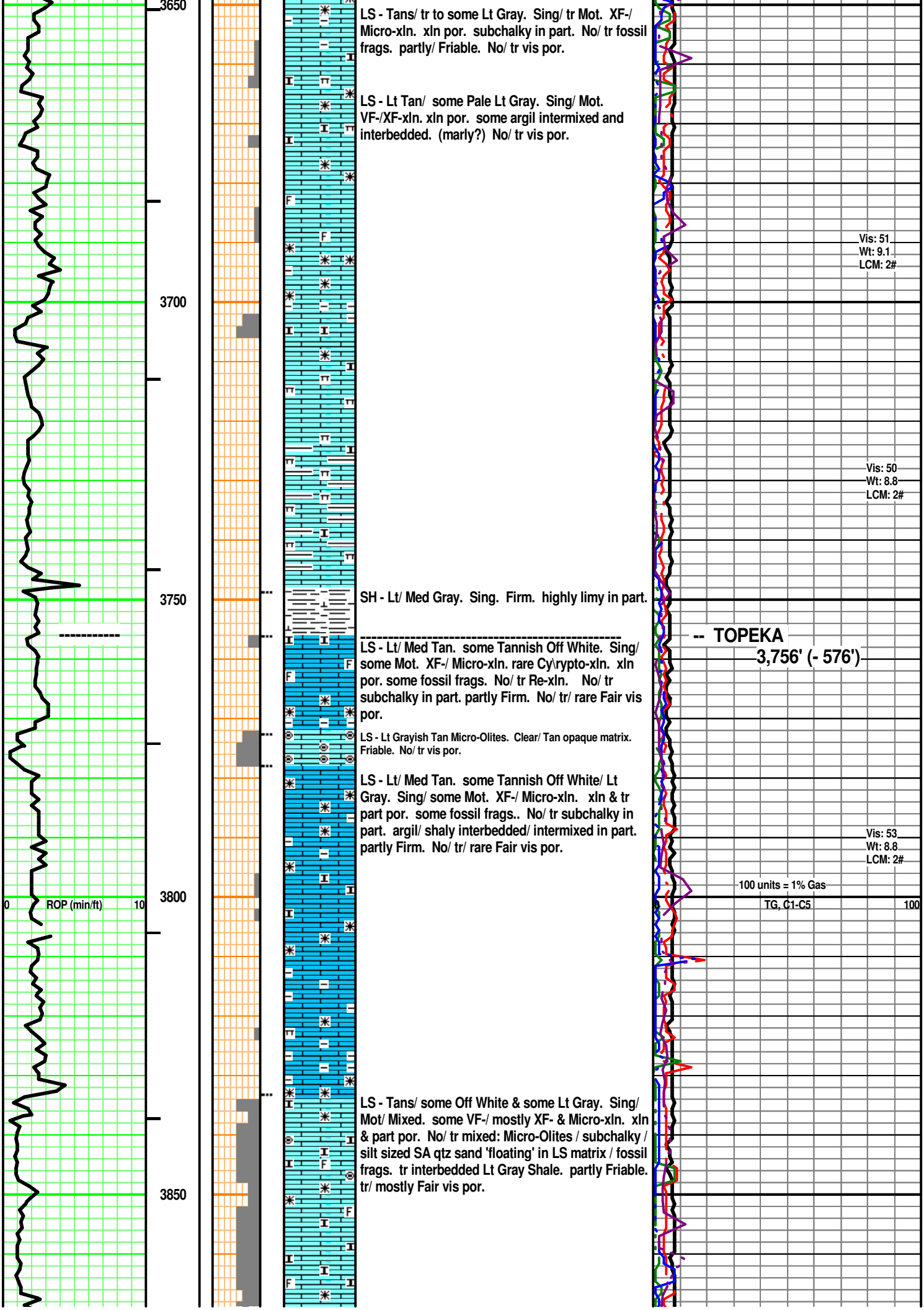
- Lost circluation
- Circulate for sam
- Circulate for sam
- Rtd
- Trip

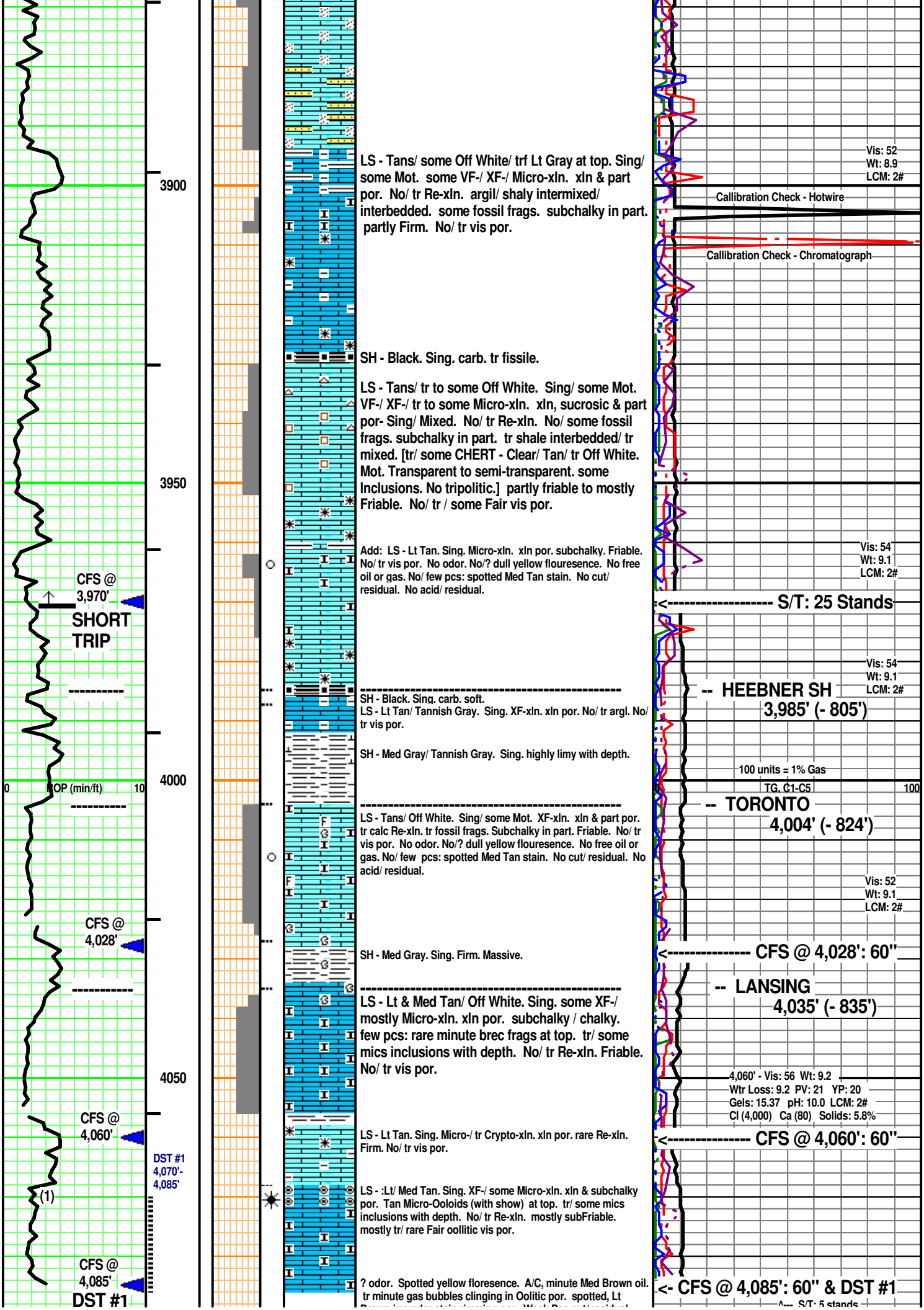
EVENT

- Connection
- Rft
- Sidewall


Curve Track 1
ROP (min/ft)
Depth
Porosity Type
Porosity
24%
18%
12%
6%
Shows
Lithology
Geological Descriptions
TG, C1-C5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
C5 (units)
0
ROP (min/ft)
10
2500
2550
3400
---------- AnHydrite 2,543' (+637')
---------- B/AnHdrite 2,562' (+618')
xxx
xxxxx
xxx
0
TG, C1-C5
100
Callibration Check - Hotwire
Callibration Check - Chromatograph
100 units = 1% Gas
DISPLACE MUD @ 3,414'
Vis: 56
Wt: 8.6
LCM: 2#
Dry Wt of Collars: 45,591#
[546' x 83.5#/ft = 45,591#]


Drill Collars: 6-1/8" x 2.5"
Buoyancy Wt of Collars: 39,413#
[45,591 x .8645 (8.9ppg) = 39,413#]
Calculated WOB = 33,501#
9,413# x .85 = 33,501#]
Vis: 52
Wt: 8.9
LCM: 2#
Weight Indicator Check @ 3,557'
Dry Wt of:
DC - (See Above) = 45,591#
DP - 3,252' x 16#/ft = 47,536#
Total Dry Wt = 93,127#
Buoyancy Wt = 80,508#
[93,127# x .8645 (8.9ppg)
= 80,508#]
Buoyancy Wt + Surface
Equipment = String Weight
[80,508# + 14,000# = 94,508#]
String Weight = 94,508#
Weight Indicator
shows 95M;
therefore,
weight indicator
is correct.
Contractor reports running
35M on bit by WI which
figures actual 35# WOB.
-vs-
Calculated available
WOB of 33,501#.
Hole Dev:
0.75 deg @ 3,557'
Vis: 3,557' -
Vis: 49 Wt: 8.8
Wtr Loss: 7.2
PV: 14 YP: 15
Gels: 10/18
pH: 11.0 LCM: 3#
Cl (3,000) Ca (40)
Solids: 3.2%
3450
3500
3550
3600
0
ROP (min/ft)
10
100 units = 1% Gas
0
TG, C1-C5
100
SH - Grays. Sing. soft. tr limy stringers
Vis: 51
Wt: 9.0
LCM: 3#
-- STOTLER
3,634' (- 454')
Interbedded LS's
LS - Lt/ Med Tan. Sing/ rare Mot. Micro-/
Crypto-xln. xln por. No/ tr Re-xln. Firm. No/ tr vis
por.


3650
3700
3750
3800
3850
0
ROP (min/ft)
10
LS - Tans/ tr to some Lt Gray. Sing/ tr Mot. XF-/ Micro-xln. xln por. subchalky in part. No/ tr fossil frags. partly/ Friable. No/ tr vis por.
LS - Lt Tan/ some Pale Lt Gray. Sing/ Mot. VF-/XF-xln. xln por. some argil intermixed and interbedded. (marly?) No/ tr vis por.
Vis: 51
Wt: 9.1
LCM: 2#
Vis: 50
Wt: 8.8
LCM: 2#
SH - Lt/ Med Gray. Sing. Firm. highly limy in part.
-- TOPEKA
3,756' (- 576')
LS - Lt/ Med Tan. some Tannish Off White. Sing/ some Mot. XF-/ Micro-xln. rare Cy\rypto-xln. xln por. some fossil frags. No/ tr Re-xln. No/ tr subchalky in part. partly Firm. No/ tr/ rare Fair vis por.
LS - Lt Grayish Tan Micro-Olites. Clear/ Tan opaque matrix. Friable. No/ tr vis por.
LS - Lt/ Med Tan. some Tannish Off White/ Lt Gray. Sing/ some Mot. XF-/ Micro-xln. xln & tr part por. some fossil frags.. No/ tr subchalky in part. argil/ shaly interbedded/ intermixed in part. partly Firm. No/ tr/ rare Fair vis por.
Vis: 53
Wt: 8.8
LCM: 2#
100 units = 1% Gas
TG, C1-C5
100
LS - Tans/ some Off White & some Lt Gray. Sing/ Mot/ Mixed. some VF-/ mostly XF- & Micro-xln. xln & part por. No/ tr mixed: Micro-Olites / subchalky / silt sized SA qtz sand 'floating' in LS matrix / fossil frags. tr interbedded Lt Gray Shale. partly Friable. tr/ mostly Fair vis por.


3900
3950
4000
4050
CFS @ 3,970'
SHORT TRIP
CFS @ 4,028'
CFS @ 4,060'
DST #1 4,070'-4,085'
(1)
CFS @ 4,085'
DST #1
0
ROP (min/ft)
10
LS - Tans/ some Off White/ trf Lt Gray at top. Sing/ some Mot. some VF-/ XF-/ Micro-xln. xln & part por. No/ tr Re-xln. argil/ shaly intermixed/ interbedded. some fossil frags. subchalky in part. partly Firm. No/ tr vis por.
SH - Black. Sing. carb. tr fissile.
LS - Tans/ tr to some Off White. Sing/ some Mot. VF-/ XF-/ tr to some Micro-xln. xln, sucrosic & part por- Sing/ Mixed. No/ tr Re-xln. No/ some fossil frags. subchalky in part. tr shale interbedded/ tr mixed. [tr/ some CHERT - Clear/ Tan/ tr Off White. Mot. Transparent to semi-transparent. some Inclusions. No tripolitic.] partly friable to mostly Friable. No/ tr / some Fair vis por.
Add: LS - Lt Tan. Sing. Micro-xln. xln por. subchalky. Friable. No/ tr vis por. No odor. No/? dull yellow flouresence. No free oil or gas. No/ few pcs: spotted Med Tan stain. No cut/ residual. No acid/ residual.
SH - Black. Sing. carb. soft.
LS - Lt Tan/ Tannish Gray. Sing. XF-xln. xln por. No/ tr argl. No/ tr vis por.
SH - Med Gray/ Tannish Gray. Sing. highly limy with depth.
LS - Tans/ Off White. Sing/ some Mot. XF-xln. xln & part por. tr calc Re-xln. tr fossil frags. Subchalky in part. Friable. No/ tr vis por. No odor. No/? dull yellow flouresence. No free oil or gas. No/ few pcs: spotted Med Tan stain. No cut/ residual. No acid/ residual.
SH - Med Gray. Sing. Firm. Massive.
LS - Lt & Med Tan/ Off White. Sing. some XF-/ mostly Micro-xln. xln por. subchalky / chalky. few pcs: rare minute brec frags at top. tr/ some mics inclusions with depth. No/ tr Re-xln. Friable. No/ tr vis por.
LS - Lt Tan. Sing. Micro-/ tr Crypto-xln. xln por. rare Re-xln. Firm. No/ tr vis por.
LS - :Lt/ Med Tan. Sing. XF-/ some Micro-xln. xln & subchalky por. Tan Micro-Ooloids (with show) at top. tr/ some mics inclusions with depth. No/ tr Re-xln. mostly subFriable. mostly tr/ rare Fair oollitic vis por.
? odor. Spotted yellow floresence. A/C, minute Med Brown oil. tr minute gas bubbles clinging in Oolitic por. spotted, Lt
Vis: 52
Wt: 8.9
LCM: 2#
Callibration Check - Hotwire
Callibration Check - Chromatograph
Vis: 54
Wt: 9.1
LCM: 2#
<---------- S/T: 25 Stands
Vis: 54
Wt: 9.1
LCM: 2#
-- HEEBNER SH
3,985' (- 805')
100 units = 1% Gas
TG, C1-C5
100
-- TORONTO
4,004' (- 824')
Vis: 52
Wt: 9.1
LCM: 2#
<---------- CFS @ 4,028': 60"
-- LANSING
4,035' (- 835')
4,060' - Vis: 56 Wt: 9.2
Wtr Loss: 9.2 PV: 21 YP: 20
Gels: 15.37 pH: 10.0 LCM: 2#
Cl (4,000) Ca (80) Solids: 5.8%
<---------- CFS @ 4,060': 60"
<- CFS @ 4,085': 60" & DST #1

DST #1

4100

Brown irregular stain rimming por. Weak Pos cut/ residual.
Weak Pos acid/ residual.

^--- CHC: 60'
^--- Board:
Strap:
Diff:
^--- Hole Dev:
deg @ 4,126'
^--- DST #1.