

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		
Miss (Lithological)		

RTD: LTD: ATD: E-log is to rotary sample depth. Loggers: Log Tech - Hays, Kansas

DST #1 - LANSING 'B'

Rotary Depth: 4,070' - 4,085'
Logger's Depth:

IFP: 18# - 64# / 30"
ISIP: 1,142# / 45"
FFP: 67# - 155# / 60"
FSIP: 1,141# / 90"
118 deg F
MH: 1,925# - 1,927#

Recovery: 290' Salt Wtr + OIL scum
Total Fluid: 260'

IF: Weak 1/8 inch Blow built to 9 inches in 30minutes.
ISI: No Blow back.
FF: Weak Surface Blow in 3-1/4 inch built to BOB in 53 minutes.
FSI: No Blow back.

Recovery Water: (17,500 ppm)
System Water: (4,000 ppm)
Recovery Water (Engineer): (NA)
Reported Rw = 0.28 ohms @ 78 deg F
Diamond Testing ... Hosington KS.
Sampler: NA

2012

DAILY DRILLING STATUS -- JULY

2012

12-1/4" Hole

7-7/8" Hole

7-7/8" 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.

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').
30 --- Resumed Drilling @ 4:45am.
6:30am @ 4,115'. DST #2:
Lansing 'D' (4,100'-4,138')
Resumed Drilling @
1 Aug --- 6:30am @

HOLE DEVIATION (270' -)

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

STRAP @ DST #1
Board: 4,088.31'
Strap: 4,090.82'
Diff: 2.51'

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 @ 70/75 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

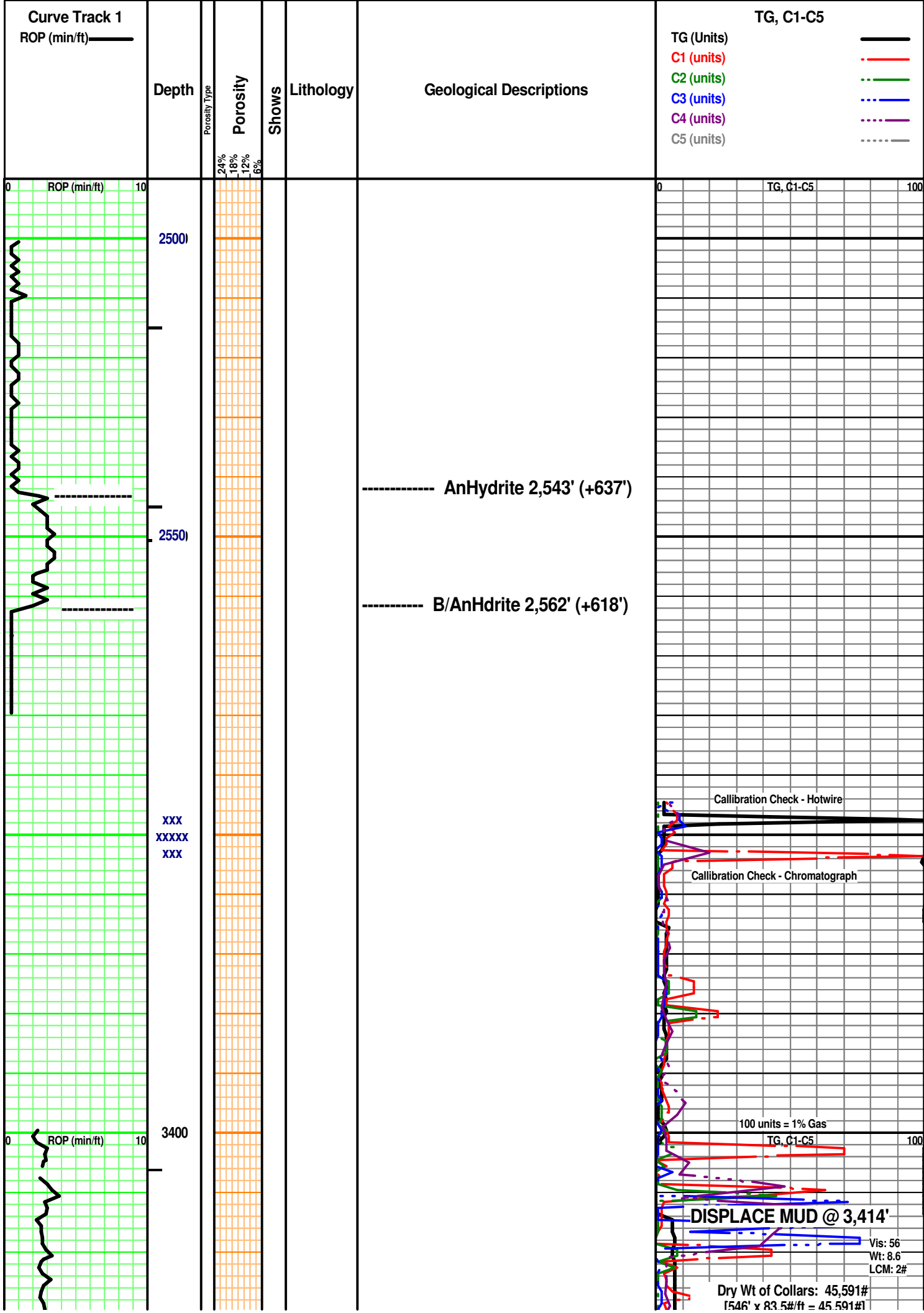
<p>POROSITY</p> <ul style="list-style-type: none"> Earthy Fenest Fracture Inter Moldic Organic Pinpoint Vuggy <p>LITHOLOGY</p> <ul style="list-style-type: none"> Anhy Bent Brec Cht Clyst Coal Granite wash Congl Dol lmst Silty dol Calc dol 	<ul style="list-style-type: none"> Dol 2 Dol Gyp Igne Lmst 2 Lmst Meta Mrlst Salt Shale 3 Shale Shcol Shgy Sltst Ss Till Ss 2 <p>MINERAL</p> <ul style="list-style-type: none"> Mica Anhy 	<ul style="list-style-type: none"> Arggrn Arg Bent Bit Brecfrag Calc Chalk Carb Chtdk Chtlt Dol Feldspar Ferrpel Ferr Glau Gyp Hvymin Kaol Marl Minxl Nodule Phos 	<p>STRINGER</p> <ul style="list-style-type: none"> Calc dol Silty dol Anhy Arg Bent Coal Dol 	<ul style="list-style-type: none"> Pyr Salt Sandy Silt Sil Sulphur Tuff Copper Ooliticastic Ooloid Oolite Sucrosic Dark specks <p>SHOW</p> <ul style="list-style-type: none"> Oil Spotted Ques Dead Gas Oil/gas Bed contact 	<ul style="list-style-type: none"> Gyp Ls Mrst Calc dol Sltstrg Ssstrg Chalk New symbol
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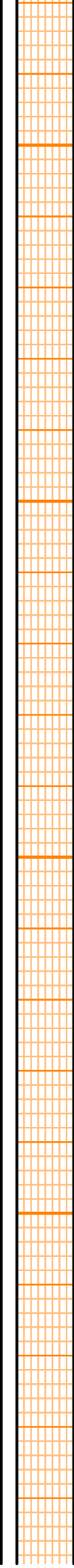
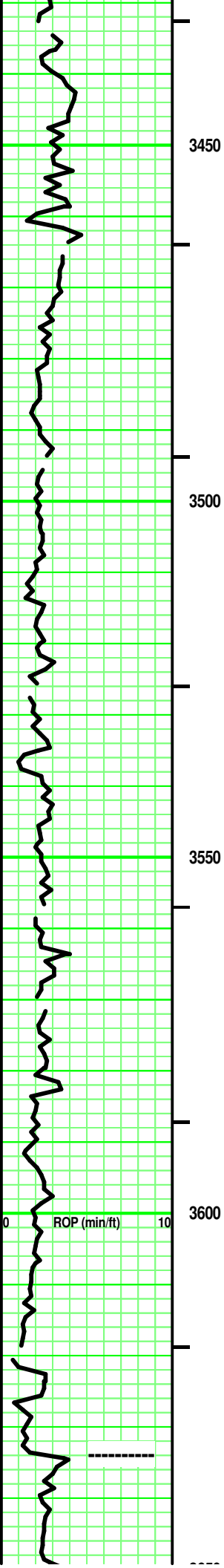
ACCESSORIES

<p>FOSSIL</p> <ul style="list-style-type: none"> Algae Amph Belm Bioclst Brach Bryozoa Cephal Coral Spore Crin Echin Fish Foram Fossil Gastro 	<ul style="list-style-type: none"> Oolite Ostra Pelec Pellet Pisolite Plant Strom <p>MINERAL</p> <ul style="list-style-type: none"> Mica Anhy Arggrn Arg Bent Bit Brecfrag 	<ul style="list-style-type: none"> Calc Chalk Carb Chtdk Chtlt Dol Feldspar Ferrpel Ferr Glau Gyp Hvymin Kaol Marl Minxl Nodule 	<ul style="list-style-type: none"> Phos Pyr Salt Sandy Silt Sil Sulphur Tuff Copper Ooliticastic Ooloid Oolite Sucrosic Dark specks 	<p>STRINGER</p> <ul style="list-style-type: none"> Calc dol Silty dol Anhy Arg Bent Coal Dol Gyp Ls Mrst Calc dol Sltstrg Ssstrg Chalk New symbol
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OTHER SYMBOLS

<p>ACTIVITY</p> <ul style="list-style-type: none"> Lost circluation Circulate for same 	<ul style="list-style-type: none"> Circulate for same Rtd Trip 	<ul style="list-style-type: none"> EVENT Connection Rft 	<ul style="list-style-type: none"> Sidewall
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SH - Grays. Sing. soft. tr limy stringers

Interbedded LS's
 LS - Lt/ Med Tan. Sing/ rare Mot. Micro-
 Crypto-xln. xln por. No/ tr Re-xln. Firm. No/ tr vis
 por.

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%

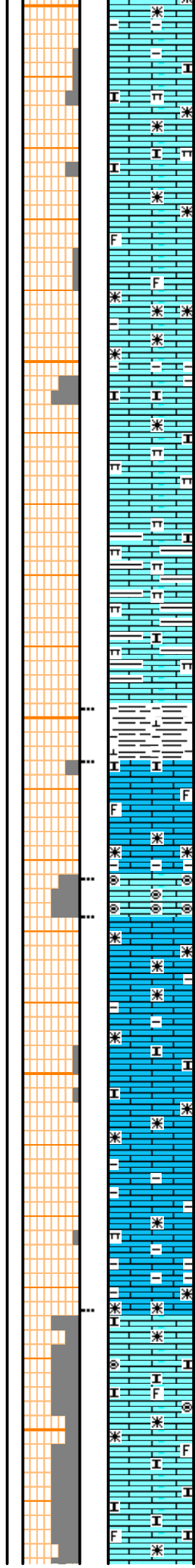
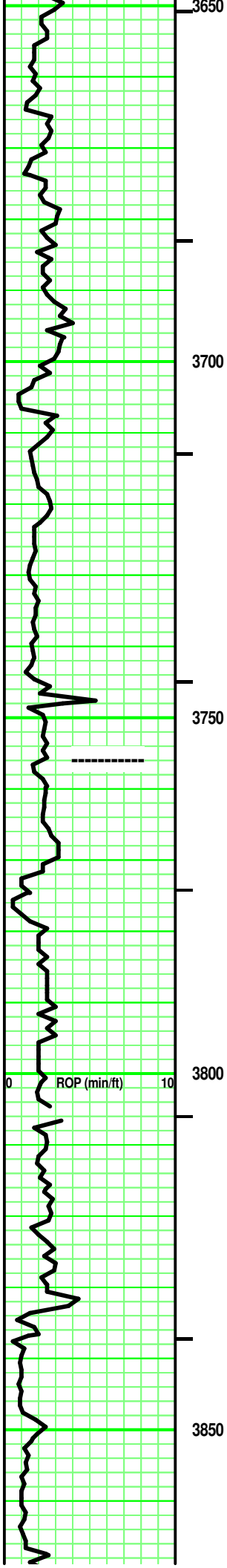
100 units = 1% Gas

TG, C1-C5

100

Vis: 51
 Wt: 9.0
 LCM: 3#

-- STOTLER
 3,634' (- 454')



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.

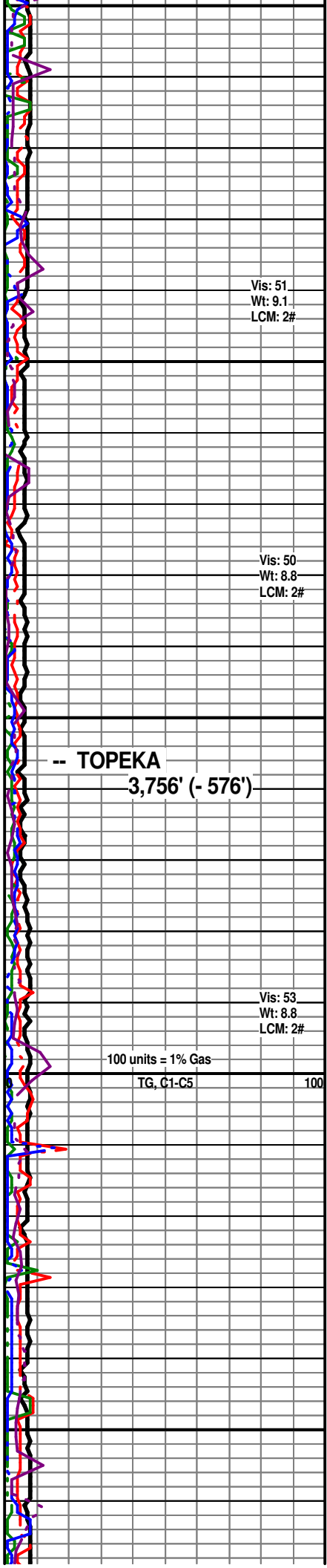
SH - Lt/ Med Gray. Sing. Firm. highly limy in part.

LS - Lt/ Med Tan. some Tannish Off White. Sing/ some Mot. XF-/ Micro-xln. rare Cy\rrypto-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.

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.



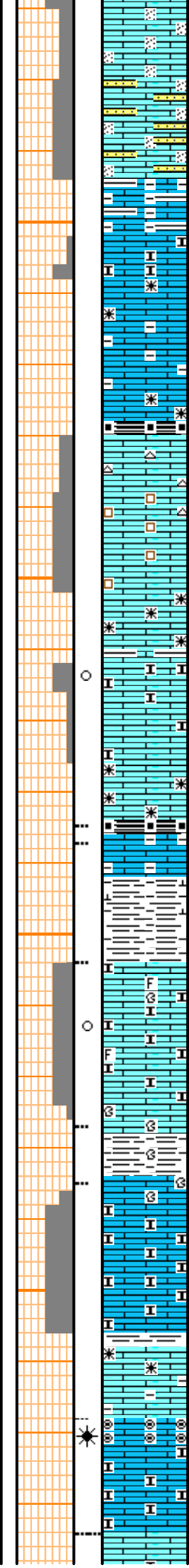
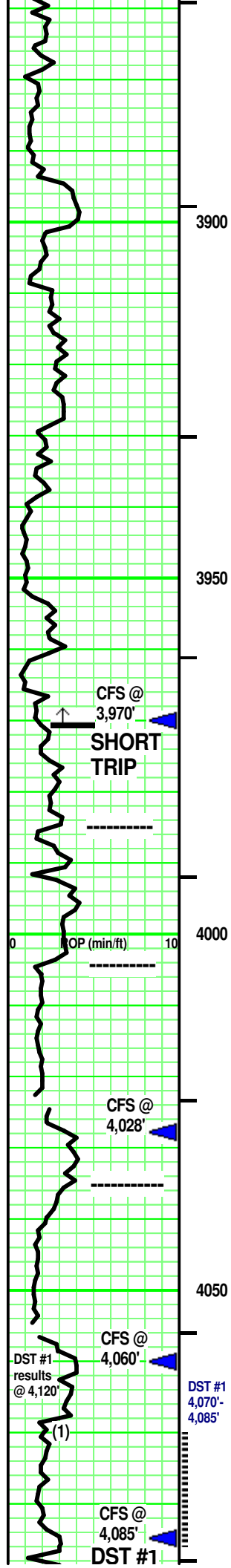
Vis: 51
Wt: 9.1
LCM: 2#

Vis: 50
Wt: 8.8
LCM: 2#

-- TOPEKA
3,756' (- 576')

Vis: 53
Wt: 8.8
LCM: 2#

-100 units = 1% Gas
TG, C1-C5 100



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 fluorescence. 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 fluorescence. No free oil or gas. No/ few pcs: spotted Med Tan stain. No cut/ residual. No acid/ residual.

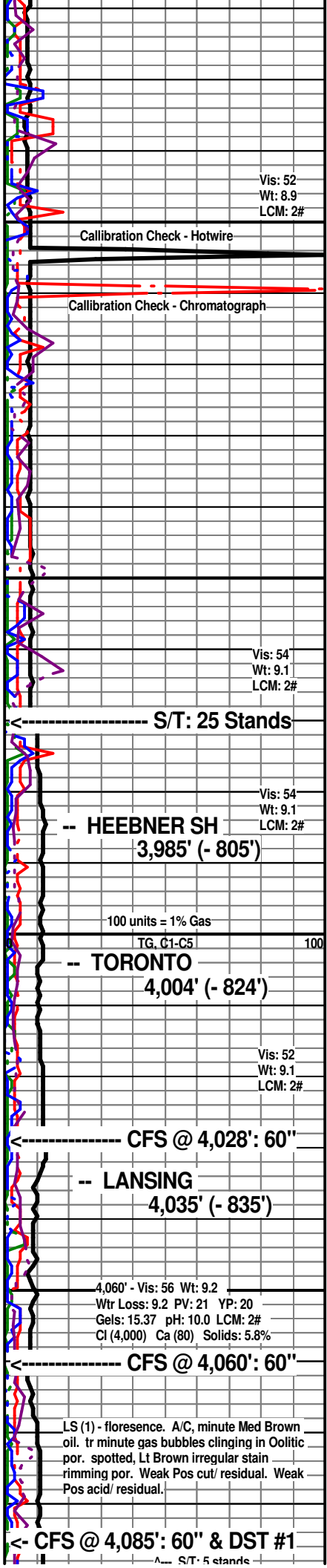
SH - Med Gray. Sing. Firm. Massive.

LS - Lt & Med Tan/ Off White. Sing. some XF-/ mostly Micro-xln. xln por. subchalky / chalky. few pcs: rare minute breccia 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 (1) - 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 oolitic vis por. ? odor. Spotted yellow

LS - Tans. Sing/ Mot/ Mixed. tr VF-/ mostly XF-xln & Micro-xln, xln & tr part por. some mixed Re-xln. rare fossil frags/ rare



Vis: 52
 Wt: 8.9
 LCM: 2#

Calibration Check - Hotwire

Calibration 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"

LS (1) - florescence. A/C, minute Med Brown oil. tr minute gas bubbles clinging in Oolitic por. spotted, Lt Brown irregular stain rimming por. Weak Pos cut/ residual. Weak Pos acid/ residual.

CFS @ 4,085': 60" & DST #1
 S/T: 5 stands

DST #2
4,100'-
4,138'

4100

(2)

CFS @
4,138'

4150

brec LS pcs. No/ tr subchalky in part. No/ tr argil in part.
partly Friable. No/ tr vis por. -interbedded- SH with depth.

Add LS (2) - Lt & Med Tan. Sing. XF-xln. xln, vuggy & part por.
some Re-xln. partly Fraible. tr/ some Fair vis por. Weak odor.
Spotted yellow flouresence. rare on own & A/C, free Med
Brown oil. No gas. Spotted Lt Brown stain ringing vuggy por.
Weak Pos/ Pos cut & residual Weak Pos / Pos acid & residual.

Add: SH - Black. Singl. carb. fissile.

Add: SH - Med Gray. Sing. soft.

Vis: 51 ^--- CHC: 60"
Wt: 9.1 ^--- Board: 4,088.31'
LCM: 1# ^--- Strap: 4,090.82
 ^--- Diff: 2.51'
 ^--- Hole Dev:
 ^--- 1 deg @ 4,126'
 ^--- DST #1.

DST #1 - LANSING B
4,070' - 4,085'

Rec:
290' Salt Wtr
+ OIL scum.

IFP: 18# - 64# / 30"
ISIP: 1,142# / 45"
FFP: 67# - 155# / 60"
FSIP: 1,141# / 90"
118 deg F
MH: 1,925# - 1,927#

<----- CFS @ 4,138': 60"