



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1094428
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1094428

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ 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: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	New Gulf Operating LLC
Well Name	Trompeter 1-19
Doc ID	1094428

Tops

Name	Top	Datum
Anhydrite	2546	+634
Base Anhydrite	2564	+616
Stotler	3636	-456
Topeka	3756	-576
Heebner Shale	3988	-808
Toronto	4008	-828
Lansing	4040	-860
Muncie Creek SH	4198	-1018
Stark SH	4292	-1112
B/KC	4374	-1194
Marmaton	4420	-1240
Pawnee LS	4512	-1332
Cherokee SH	4598	-1418
Johnson	4656	-1476
Morrow SH	4708	-1528
Sandstone	4754	-1574
Mississippi	4765	-1585

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

September 24, 2012

New Gulf Operating LLC
6310 E. 102nd St.
TULSA, OK 74137

Re: ACO1
API 15-109-21115-00-00
Trompeter 1-19
SE/4 Sec.19-14S-34W
Logan County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Laurie Rush



TICKET NUMBER 37071
 LOCATION Oakley
 FOREMAN Fuzzy

PO Box 884, Chanute, KS 66720
 620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-4-12	5661	Trampette 1-19	19	14s	34w	LOSAN
CUSTOMER New Gulf Operating			maxumod			
MAILING ADDRESS			S-Dead			
CITY			SW			
STATE			12N			
ZIP CODE			W.17			
TRUCK #	DRIVER	TRUCK #	DRIVER			
463	Corey D					
528	Bobby S					

JOB TYPE PTA HOLE SIZE 7 7/8 HOLE DEPTH 4930' CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4 1/2 TUBING _____ OTHER _____
 SLURRY WEIGHT 14.1 SLURRY VOL 1.40 WATER gal/sk 6.7 CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting on UAI #4 Ris up and plug as ordered

255 SKS @ 2550'
100 SKS @ 1472' 220 SKS 60/40 49' local '14# flo-seal
40 SKS @ 315'
10 SKS @ 40' w/plus
15 SKS MH
30 SKS RH
Thanks Fuzzy crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405N	1	PUMP CHARGE	1325 ⁰⁰	1325 ⁰⁰
5406	30	MILEAGE	5 ⁰⁰	150 ⁰⁰
5407A	9.5 hrs	Ton mileage Delivery	167	476 ¹⁰
1131	220 SKS	60/40 pos	15 ¹⁰	3322 ⁰⁰
1118B	757 #	Bentonite	125	189 25
1107	55 #	Flo-seal	282	155 10
4432	1	85lb wood cup plus	96 ⁰⁰	96 ⁰⁰
		Subtotal		5713 45
		less 1090		571 35
		Subtotal		5142 10
		SALES TAX		264.12
		ESTIMATED TOTAL		5406.22

Ravin 3737

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

251793

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

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').
 Resumed Drilling @
 30 --- 6:30am @

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 @ 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

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
- 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

STRINGER

- Calc dol
- Silty dol
- Anhy
- Arg
- Bent
- Coal
- Dol

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

- 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

OTHER SYMBOLS

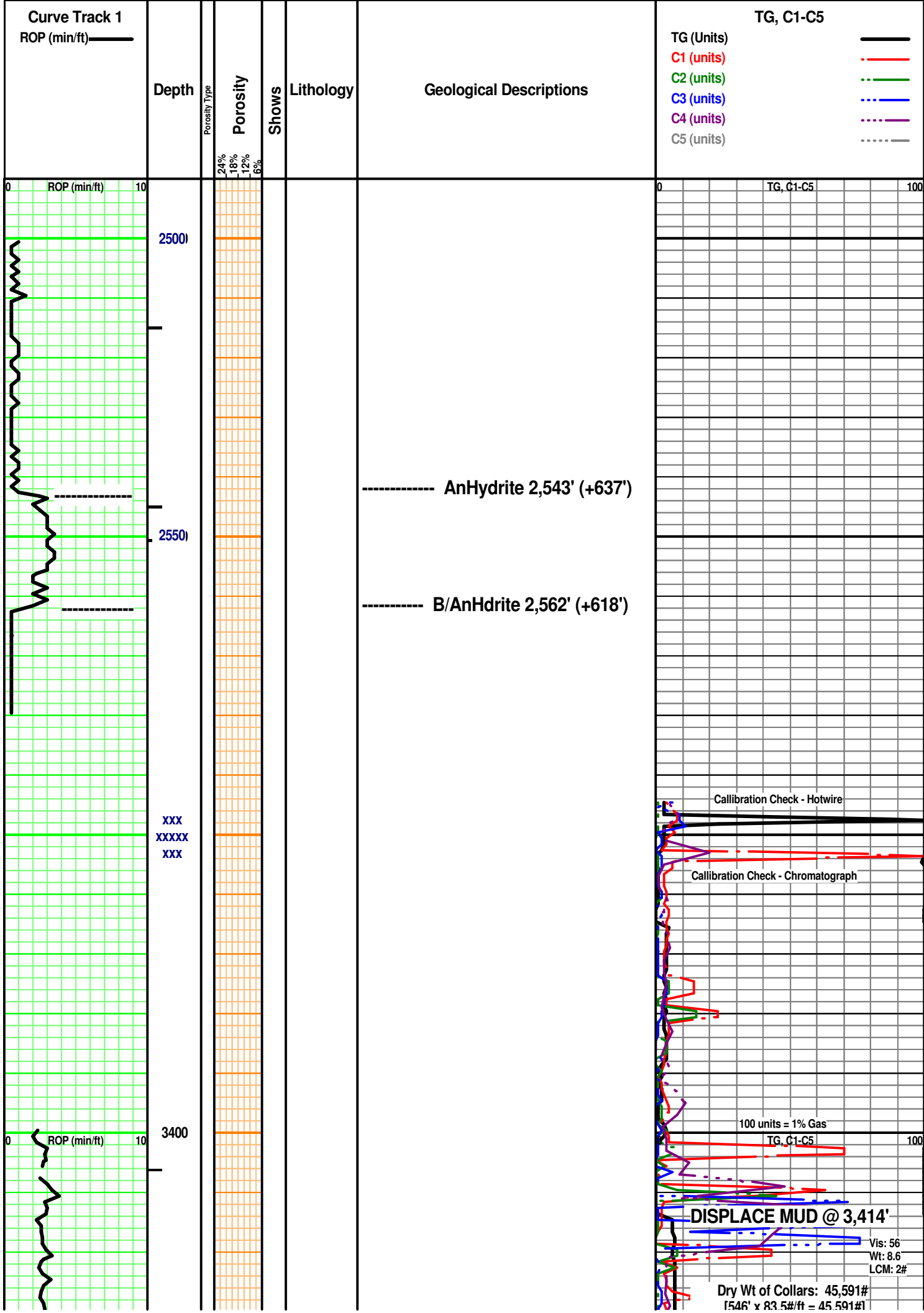
ACTIVITY

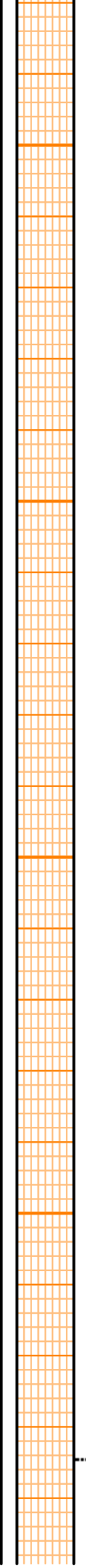
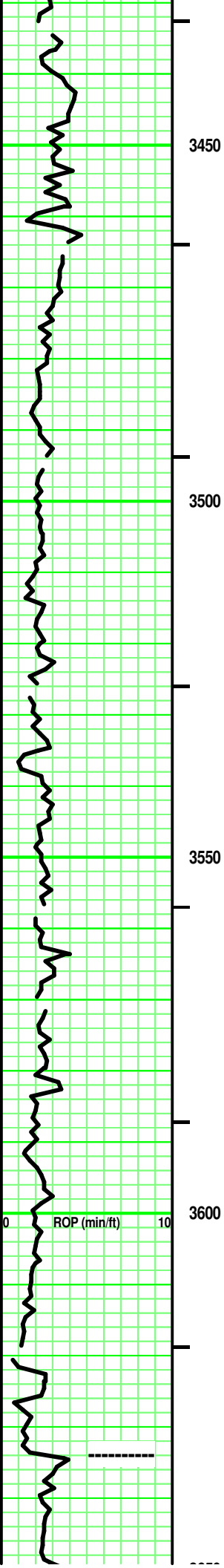
- Lost circluation
- Circulate for same

- Circulate for same
- Rtd
- Trip

- Connection
- Rft

- Sidewall





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#.

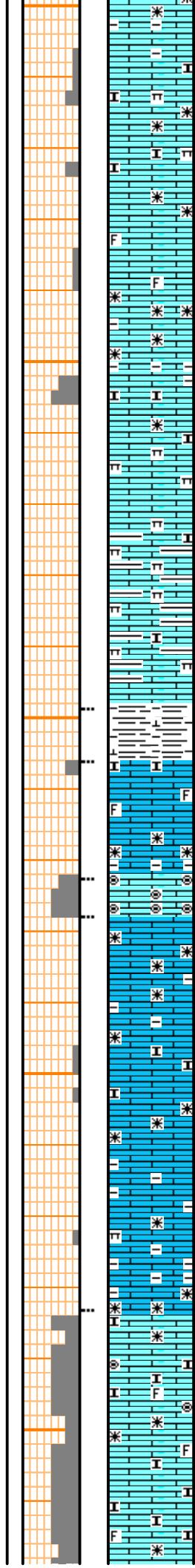
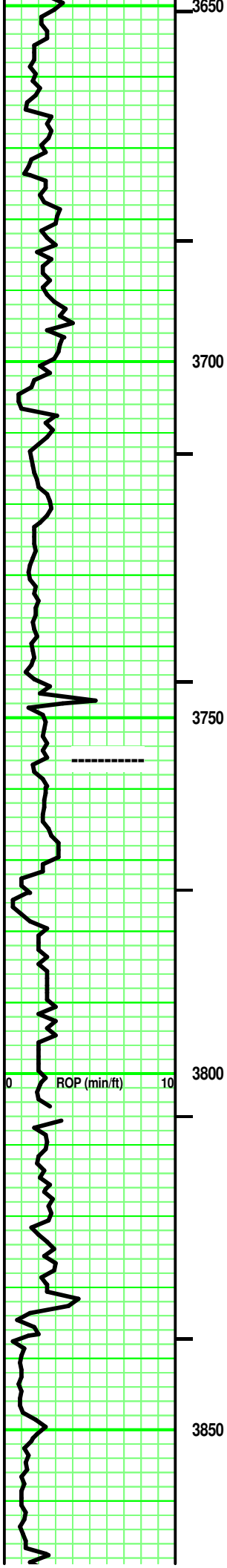
Hole Dev:
 0.75 deg @ 3,557'

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.

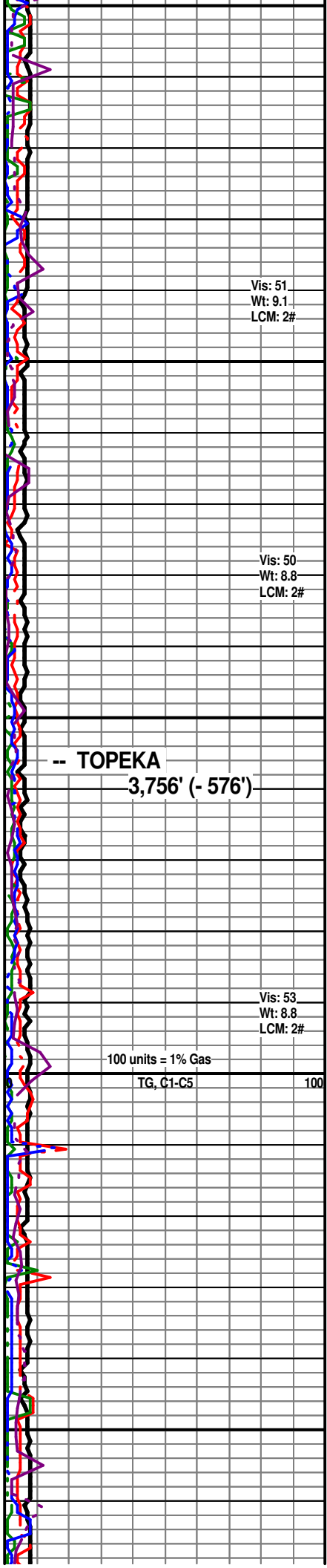
SH - Lt/ Med Gray. Sing. Firm. highly limy in part.

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.



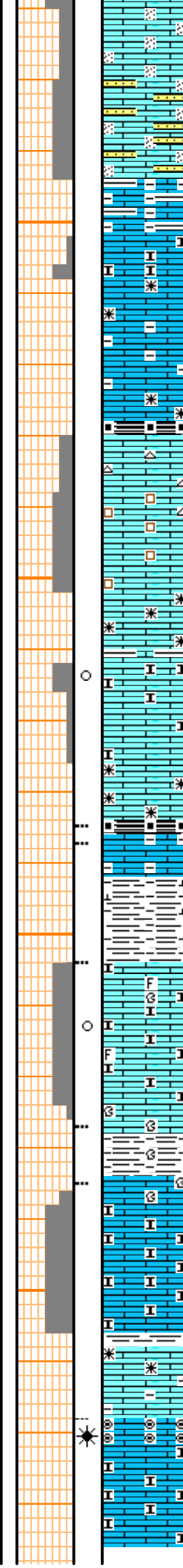
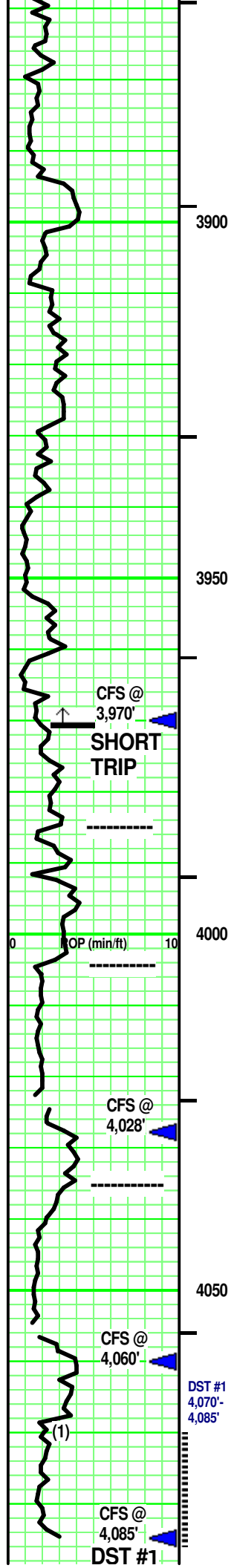
Vis: 51
Wt: 9.1
LCM: 2#

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.

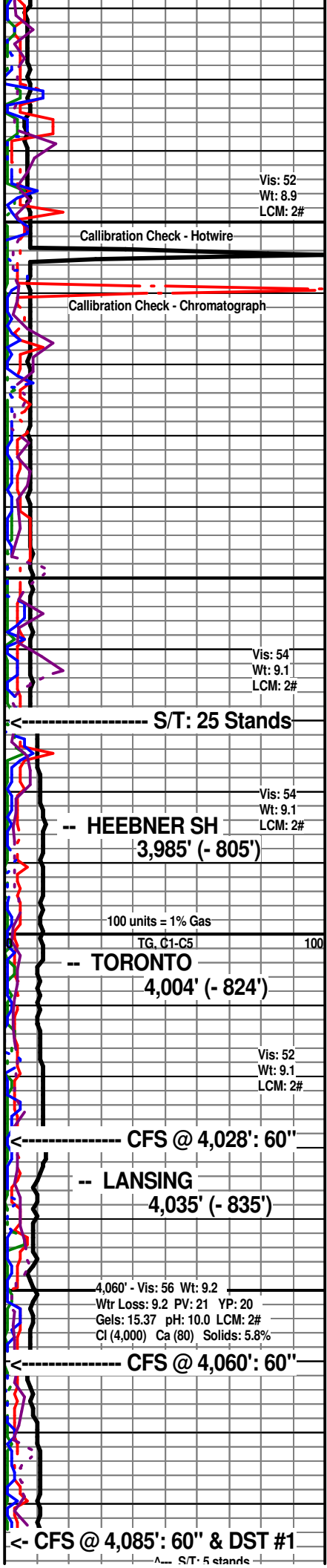
SH - Med Gray. Sing. Firm. Massive.

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 - 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 fluorescence. A/C, minute Med Brown oil. tr minute gas bubbles clinging in Oolitic por. spotted, Lt



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

TORONTO
4,004' (- 824')

Vis: 52
Wt: 9.1
LCM: 2#

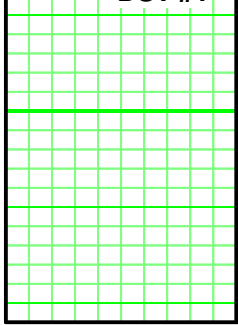
CFS @ 4,028': 60"

LANSING
4,035' (- 835')

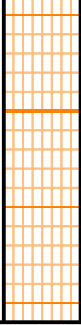
4,060' - Vis: 56 Wt: 9.2
Wtr Loss: 9.2 PV: 21 YP: 20
Gels: 15.37 pH: 10.0 LCM: 2#
Cl (4,000) Ca (80) Solids: 5.8%

CFS @ 4,060': 60"

CFS @ 4,085': 60" & DST #1

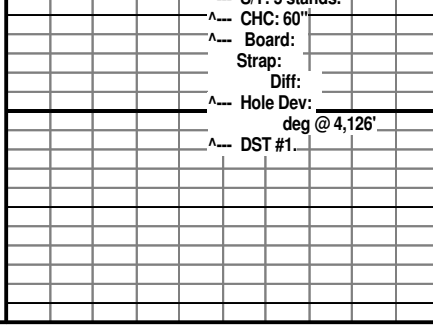


4100



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.



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

POROSITY

	Earthy
	Fenest
	Fracture
	Inter
	Moldic
	Organic
	Pinpoint
	Vuggy

LITHOLOGY

	Anhy
	Bent
	Brec
	Cht
	Clyst
	Coal
	Granite wash
	Congl
	Dol lms
	Silty dol
	Calc dol

	Dol 2
	Dol
	Gyp
	Igne
	Lmst 2
	Lmst
	Meta
	Mrst
	Salt
	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
Calc dol
Silty dol
Anhy
Arg
Bent
Coal
Dol

	Gyp
	Ls
	Mrst
	Calc dol
	Sltstg
	Ssstrg
	Chalk
	New symbol
	SHOW
	Oil
	Spotted
	Ques
	Dead
	Gas
	Oil/gas
	Bed contact

STRINGER

	Calc dol
	Silty dol
	Anhy
	Arg
	Bent
	Coal
	Dol

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

	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
	Sltstg
	Ssstrg
	Chalk
	New symbol

OTHER SYMBOLS

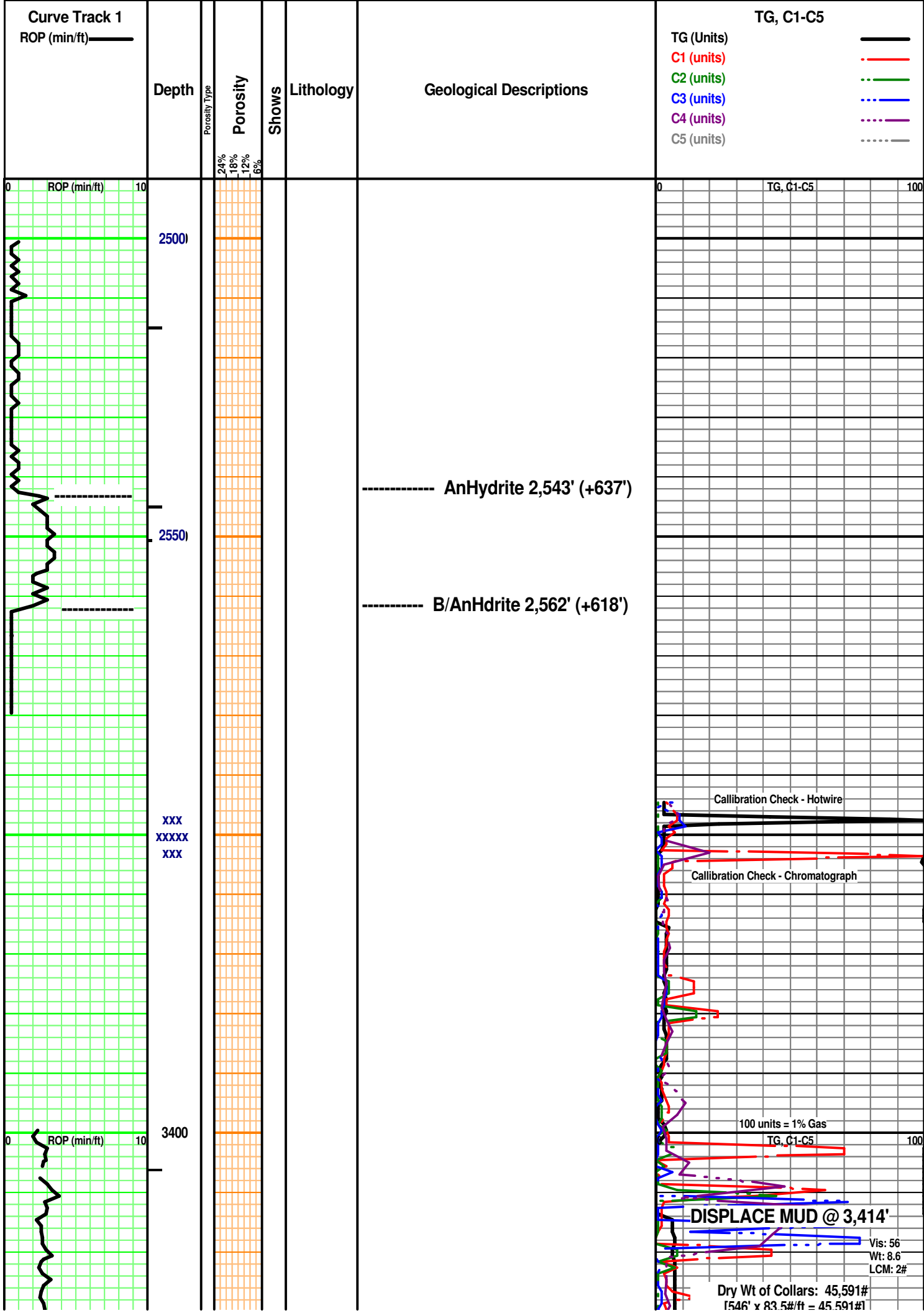
ACTIVITY

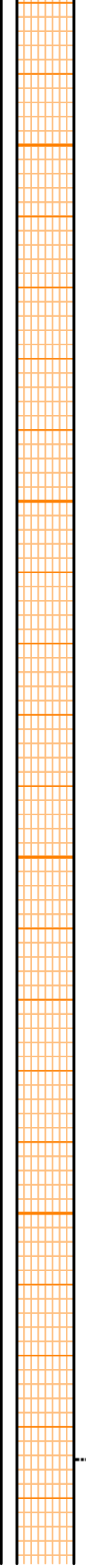
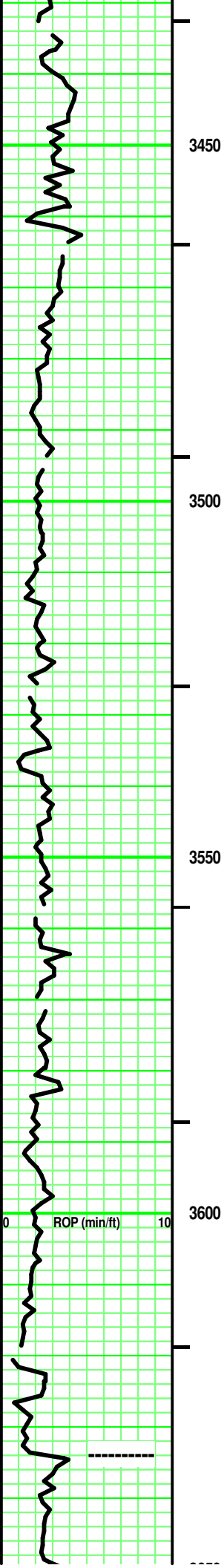
	Lost circluation
	Circulate for same

	Circulate for same
	Rtd
	Trip

	Connection
	Rft

Sidewall





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#.

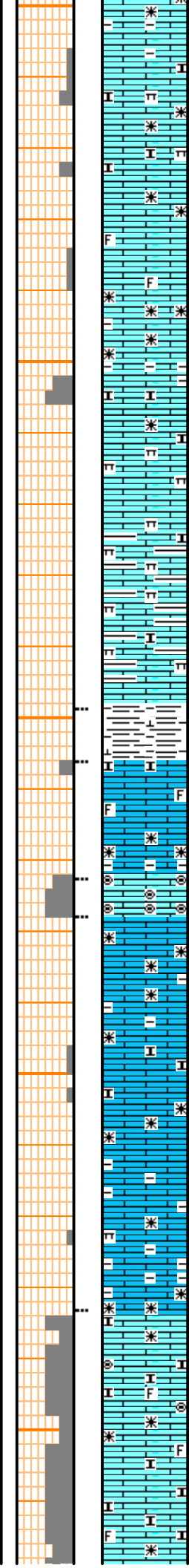
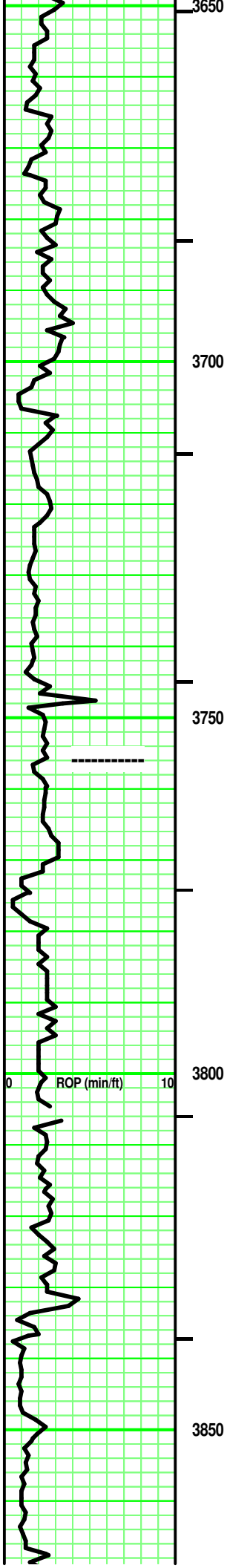
Hole Dev:
 0.75 deg @ 3,557'

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.

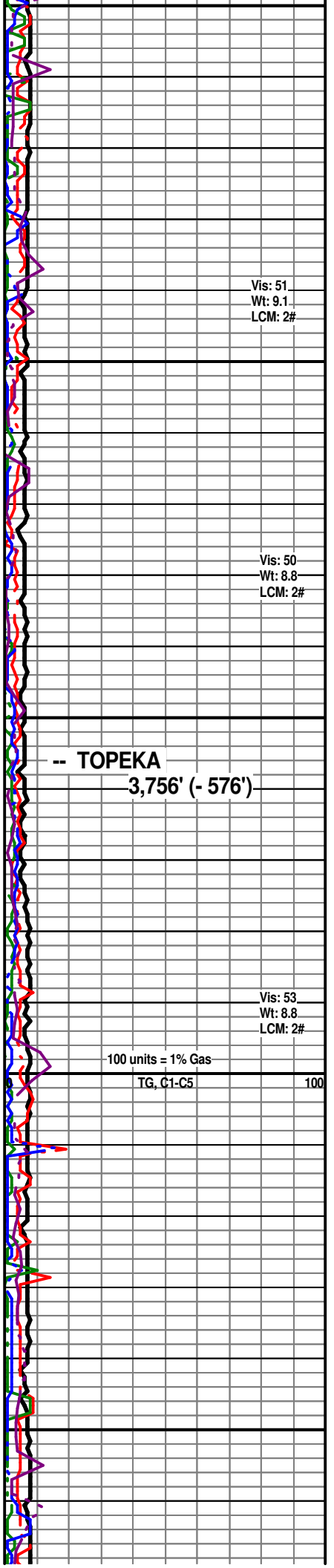
Vis: 51
Wt: 9.1
LCM: 2#

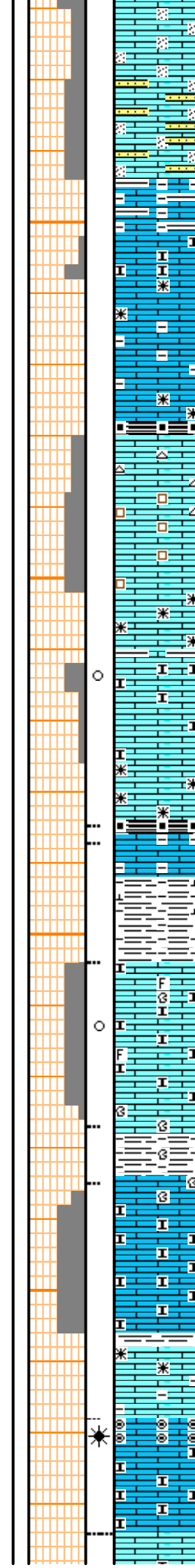
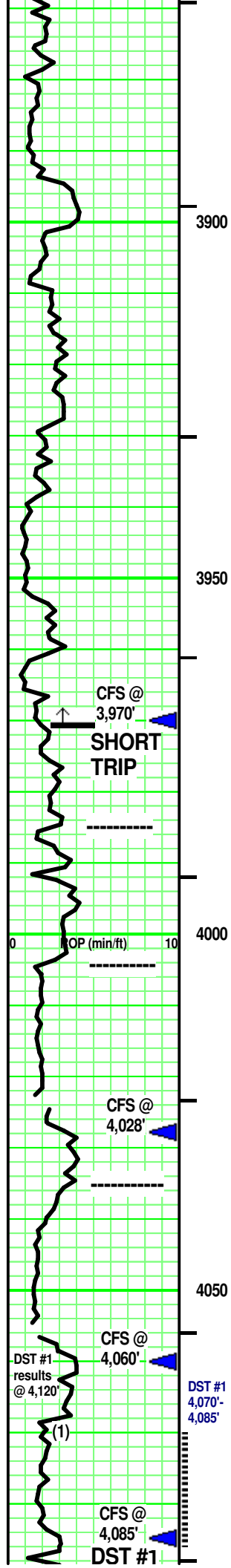
Vis: 50
Wt: 8.8
LCM: 2#

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

Vis: 53
Wt: 8.8
LCM: 2#

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





LS - Tans/ some Off White/ tr 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.

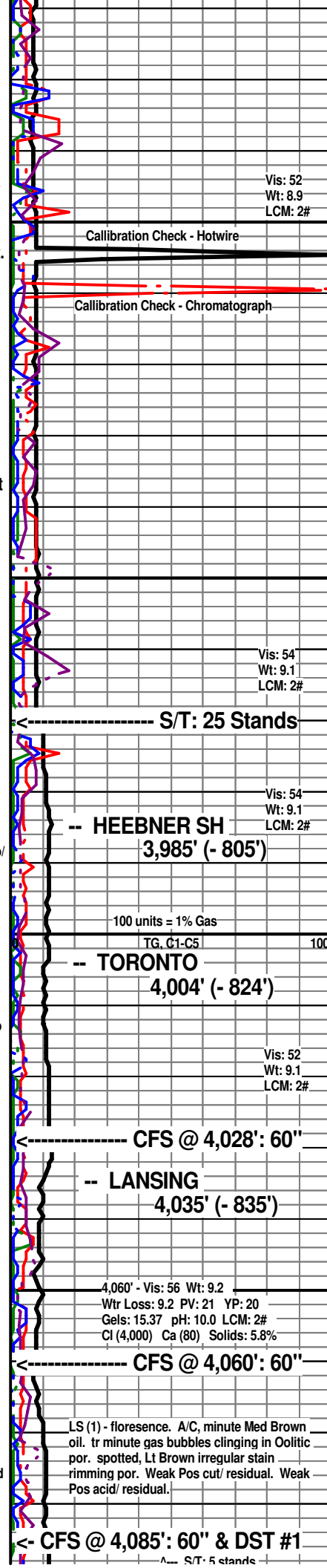
SH - Med Gray. Sing. Firm. Massive.

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"

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)
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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' (-855')	
Muncie Creek SH	4,195' (-1,015')	
Stark SH	4,387' (-1,107')	
B / KC	4,376' (-1,182')	
Marmaton	4,417' (-1,237')	
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"
 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

DST #2 - LANSING 'D'

Rotary Depth: 4,100' - 4,138'
 Logger's Depth:
 IFP: 16# - 25# / 30"
 ISIP: 1,059# / 30"
 FFP: 27# - 33# / 30"
 FSIP: 1,002# / 30"
 MH: 1,921# - 1,920#

Recovery: 25' GAS in Pipe
 15' G&W cut Muddy OIL (4%G,13%W,17%M,66%O)
 20' OIL c Mud (6%O,94%M)
 Total Fluid: 35'
 IF: Weak 1/8 inch Blow built to 1-1/4 inches.
 ISI: No Blow back.
 FF: Weak Surface Blow in 10 minutes increasing to 1/4 inch.
 FSI: No Blow back.

Recovery Water: (9,000 ppm)
 Recovery Water pH: 10.5
 System Water: (5,000 ppm)
 Recovery Water (Engineer): (NA)
 Reported Rw = 0.34 ohms @ 104 deg F
 Diamond Testing ... Hosington KS.
 Sampler: 12% OIL, 88%Mud

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').
 30 --- Resumed Drilling @ 4:45am.
 6:30am @ 4,115'. DST #2:
 Lansing 'D' (4,100'-4,138')
 Resumed Drilling @ 8:50pm.
 31 --- 6:30am @ 4,245'. Start and

7-7/8" Hole

1 Aug --- 6:30am @ 4,429'.
 Finish DST #3: KC /
 Pleasanton (4,327'-4,429').
 Resume Drilling @
 2 --- 6:30am @

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' /	--- 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/36M @ 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

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
Hvymn
Kaol
Marl
Minxl
Nodule
Phos

STRINGER

	Calc dol
	Silty dol
	Anhy
	Arg
	Bent
	Coal
	Dol

	Pyr
	Salt
	Sandy
	Silt
	Sil
	Sulphur
	Tuff
	Copper
	Ooliticastic
	Ooloid
	Oolite
	Sucrosic
	Dark specks

SHOW

	Oil
	Spotted
	Ques
	Dead
	Gas
	Oil/gas
	Bed contact

	Gyp
	Ls
	Mrst
	Calc dol
	Sltstrg
	Ssstrg
	Chalk
	New symbol

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

- Mica
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag

- 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
- Oolite
- Sucrosic
- Dark specks

STRINGER

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

OTHER SYMBOLS

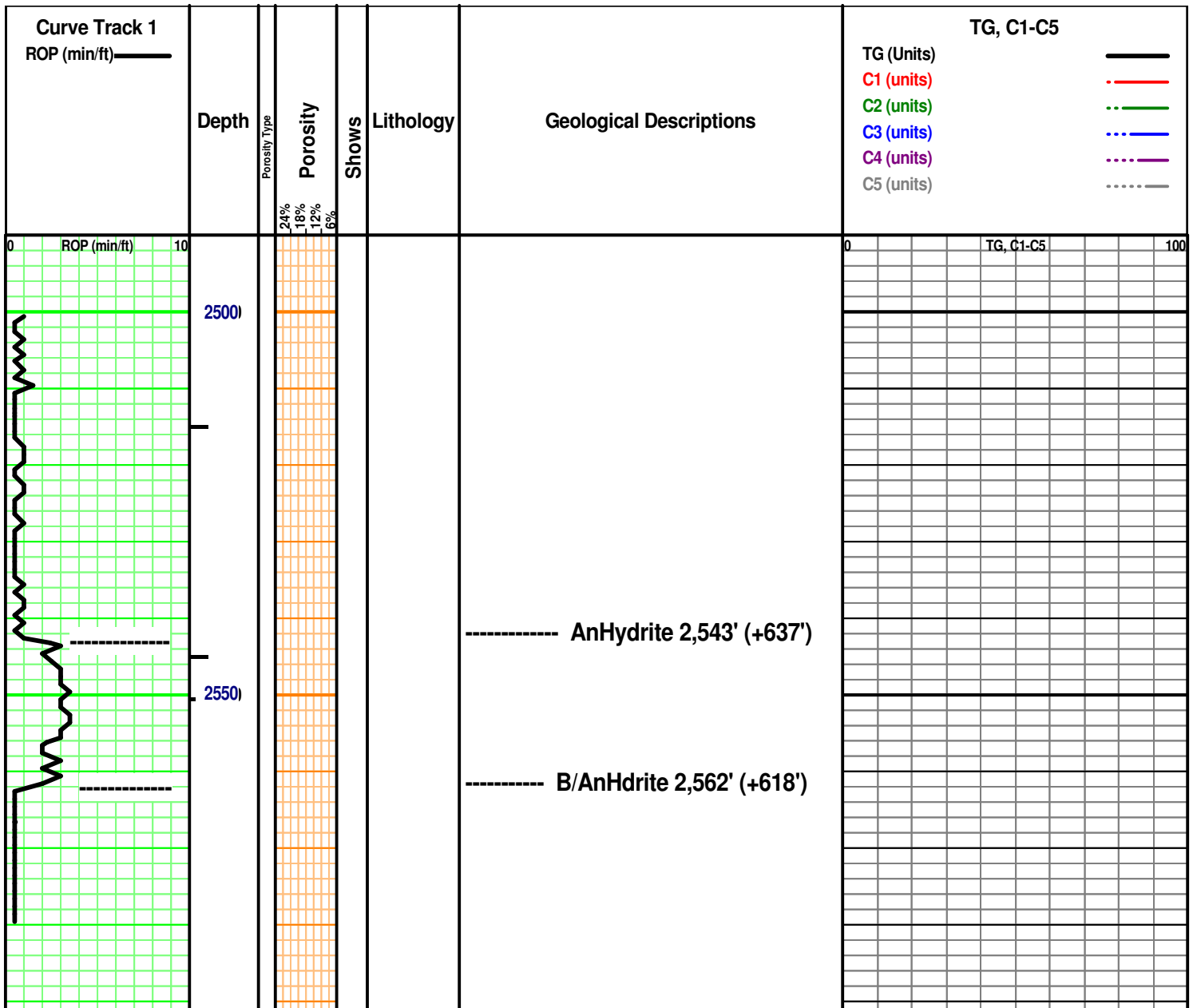
ACTIVITY

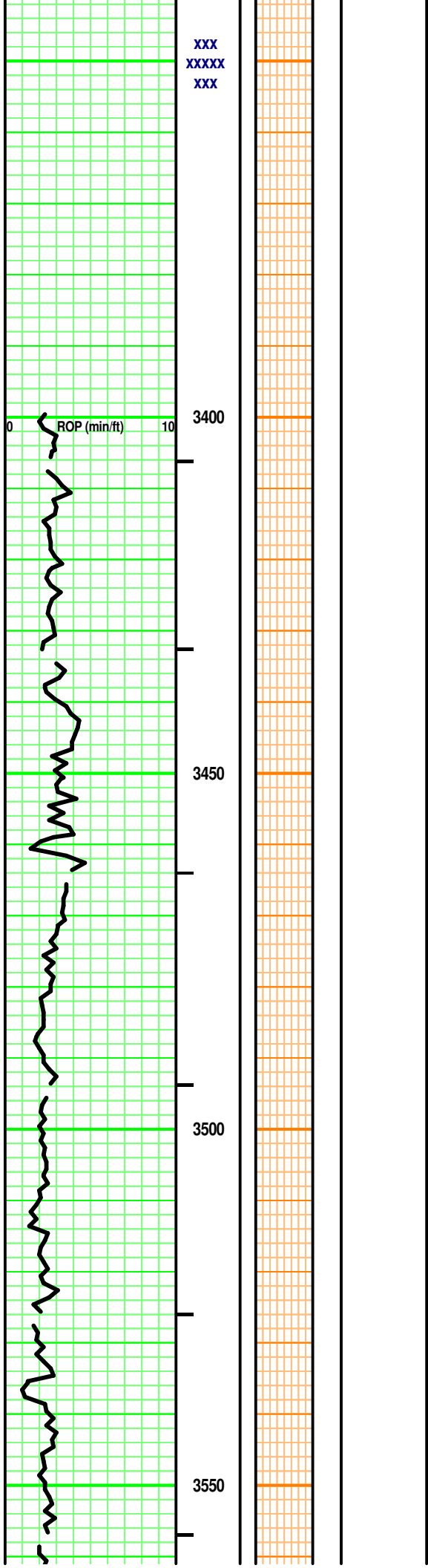
- Lost circluation
- Circulate for same

- Circulate for same
- Rtd
- Trip

- Connection
- Rft

- Sidewall





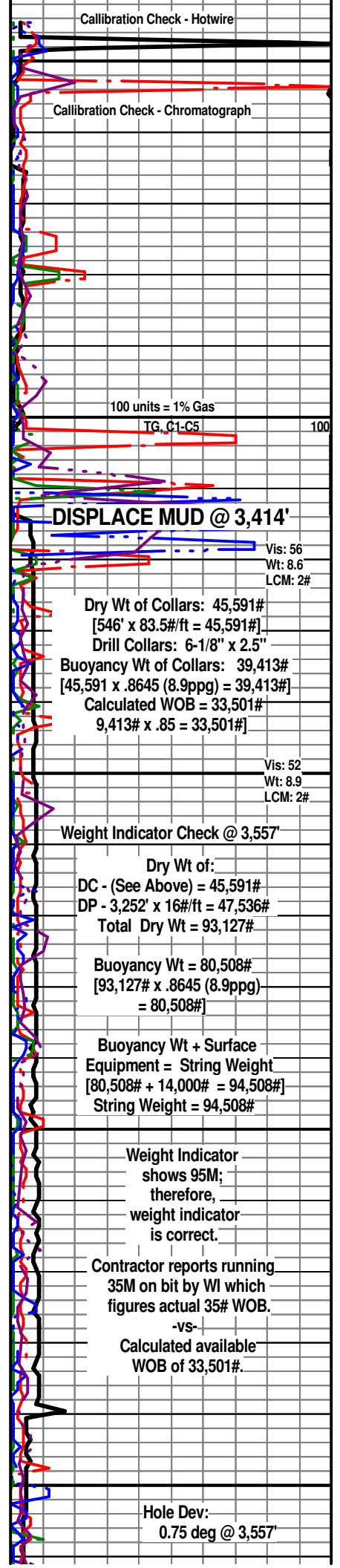
XXX
XXXXX
XXX

0 ROP (min/ft) 10 3400

3450

3500

3550



Callibration Check - Hotwire

Callibration Check - Chromatograph

100 units = 1% Gas

TG, C1-C5

100

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.

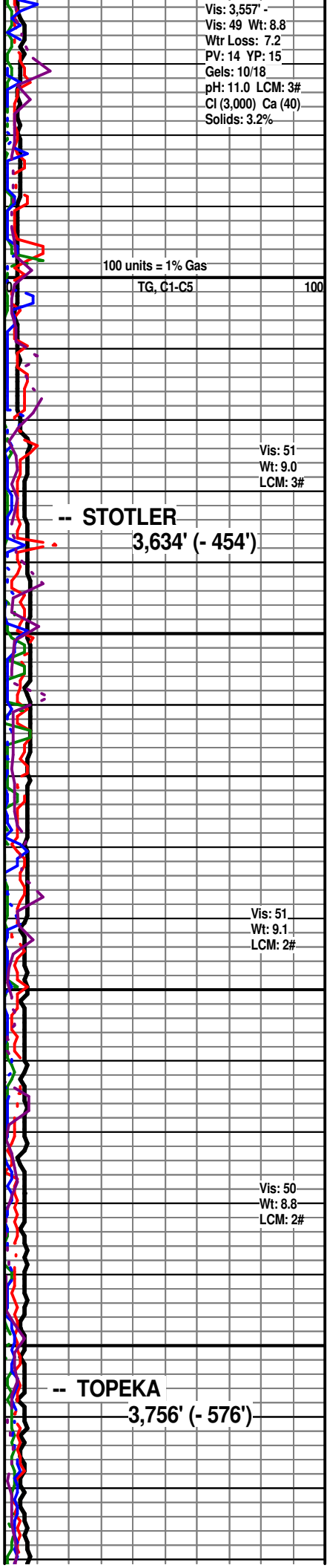
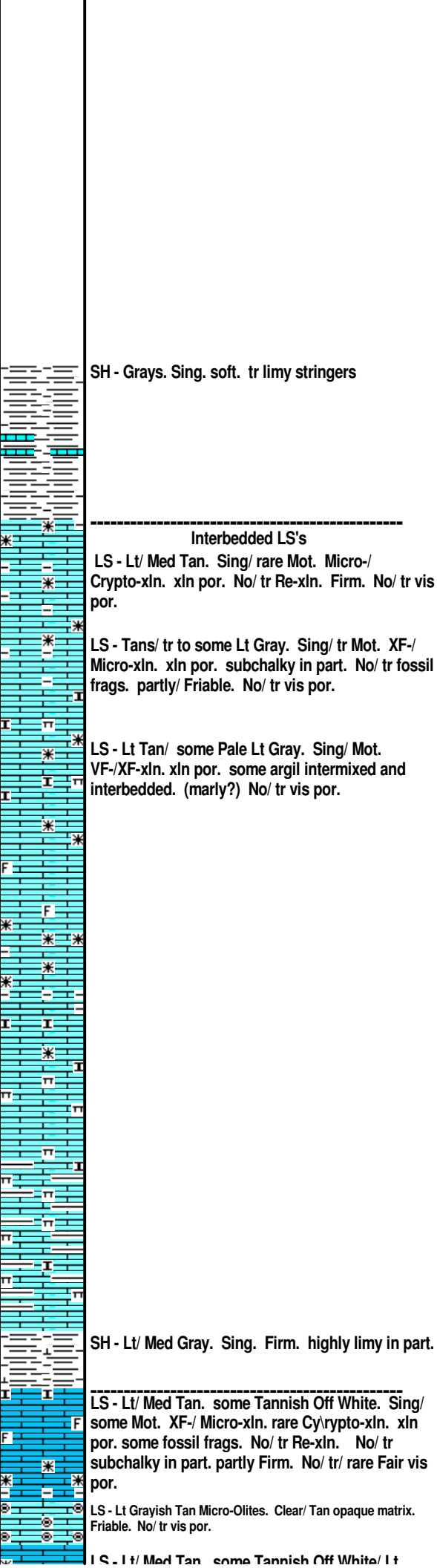
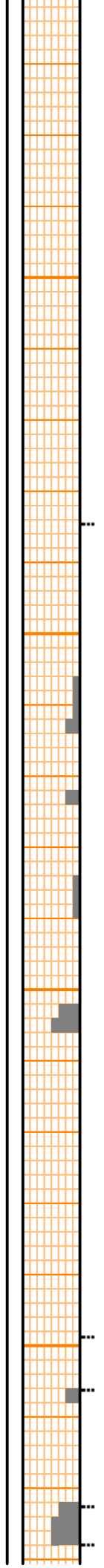
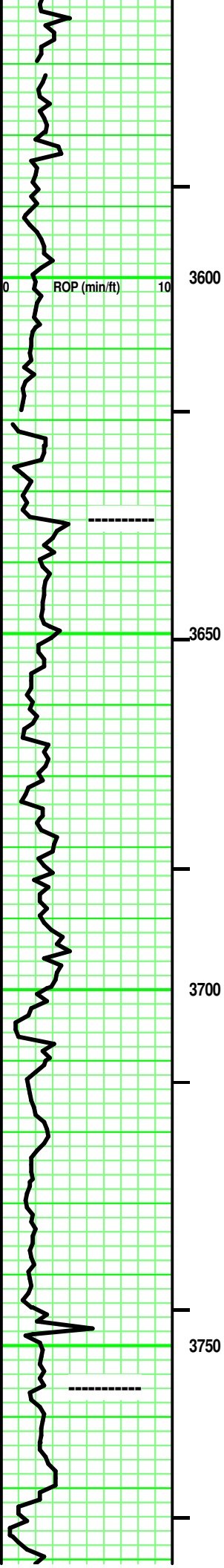
Contractor reports running
35M on bit by WI which
figures actual 35# WOB.

-vs-

Calculated available
WOB of 33,501#.

Hole Dev:
0.75 deg @ 3,557'

Vis: 3.557' -
 Wt: 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

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.

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#

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

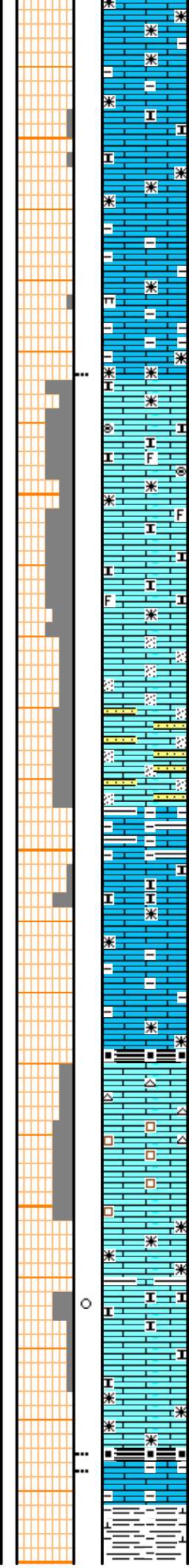
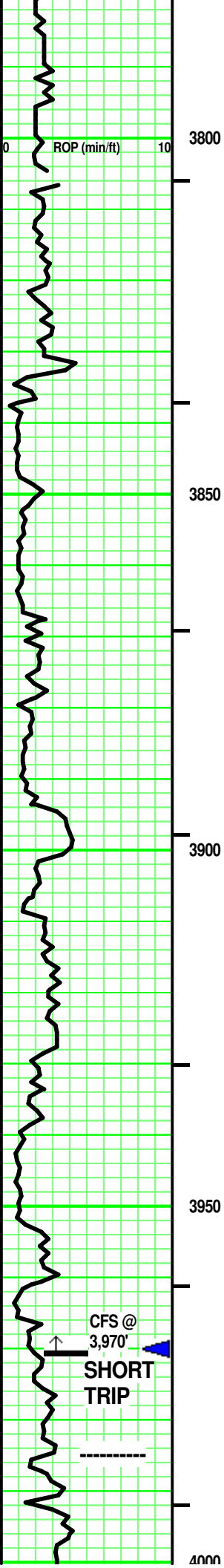
-- TOPEKA
 3,756' (- 576')

LS - Lt/ Med Tan. some Tannish Off White. Sing/ some Mot. XF-/ Micro-xln. rare Crypto-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-Oolites. Clear/ Tan opaque matrix. Friable. No/ tr vis por.

Vis: 50
 Wt: 8.8
 LCM: 2#

LS - Lt/ Med Tan. some Tannish Off White/ Lt



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.

LS - Tans/ some Off White/ tr/ 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.

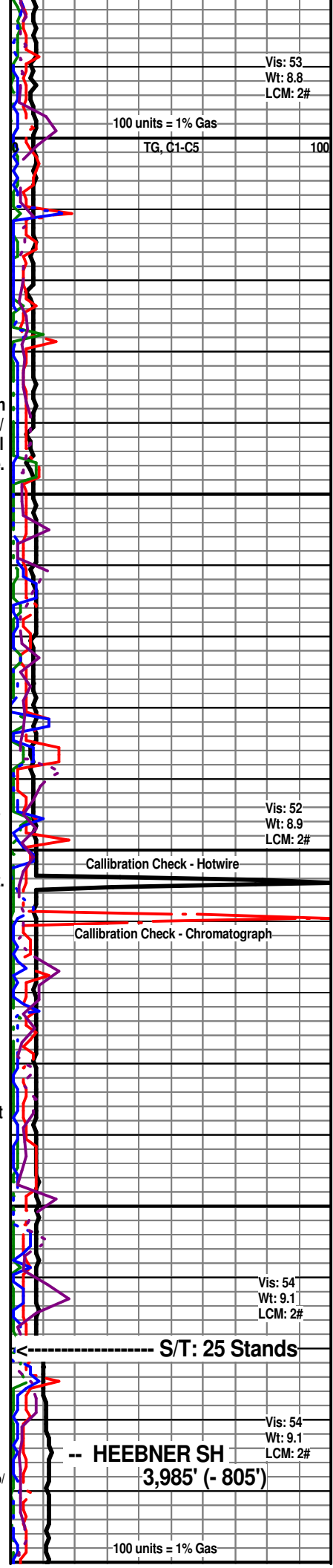
SH - Black. Sing. carb. tr fissile.

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.

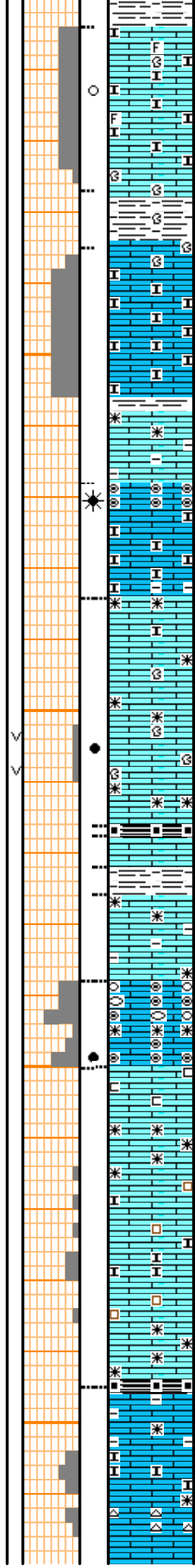
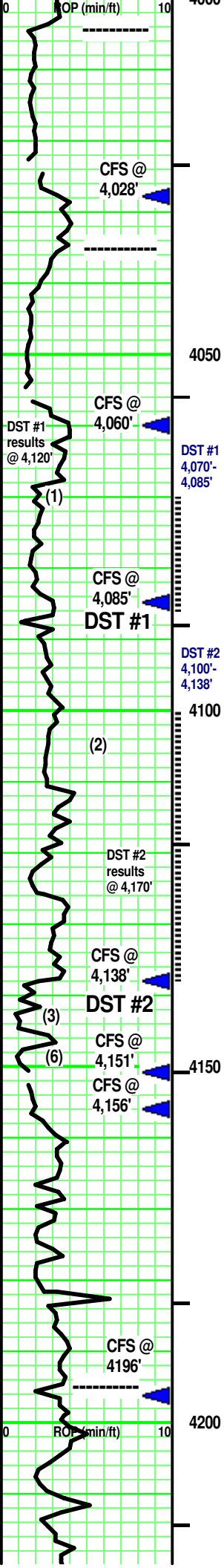
SH - Med Gray/ Tannish Gray. Sing. highly limy with depth.



CFS @ 3,970'

SHORT TRIP

HEEBNER SH
3,985' (- 805')



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 brecc 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 brecc 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 Friable. tr/ some Fair vis por. Weak odor. Spotted yellow fluorescence. 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.

LS (5) - Lt Tan/ Off White VF Oolites, some Ooloids. tr Oolitic. Brown, semitransparent Matrix. No/ some Re-xln. Friable. No/ tr/ some Fair vis por.

LS (6) - Off White Micro-Oolites. rare Clear/ mostly opaque Off White Matrix. Friable. Fair vis por. No/? odor. Spotted yellow fluorescence. A/C, minute Dark Brown oil spheres clinging to x chip. rare free minute Dark Brown oil. No gas. Spotted, irregular Lt Brown stain. Weak Pos cut & residual. Weak Pos acid & residual.

Interbedded LS

LS - Lt & Med Tan. Sing. Micro-/ tr to some Crypto-xln. xln por. No/ tr Re-xln. Firm. No/ tr vis por.

LS - Tans/ Off White. Sing/ some Mot. XF-xln. xln & part por. tr calc Re-xln. rare fossil frags. Subchalky in part. Friable. No/ tr vis por.

LS - Tans/ Off White. Sing/ some Mot. VF-/ XF-xln. xln & sucrosic por. Subchalky in part. Friable. No/ tr vis por.

MUNCIE CREEK 4,195' (-1,015')

SH - Black. Sing. carb. soft.

LS - Lt/ Med Tan, tr Lt Brownish Tan. tr/ some Pale Gray at top. XF-/ Micro-xln. xln por. marly/ pyritic at top. tr interbedded Lt/ Med Gray shale. subchalky in part. No/ tr Re-xln. mostly Firm. No/ tr vis por.

[few pcs: CHERT - White. Sing. Opaque. rare Inclusion. No tripolitic.]

TG, C1-C5 100

-- TORONTO
4,004' (- 824')

Vis: 52
Wt: 9.1
LCM: 2#

CFS @ 4,028': 60"

-- LANSING
4,035' (- 855')

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.
CHC: 60"

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

DST #1 - LANSING B v--- 4,138' -
4,070' - 4,085' Vis: 54
Rec: Wt: 9.1
290' Salt Wtr WL: 9.6
+ OIL scum PV: 16
YP: 17
pH: 10.0
IFP: 18# - 64# / 30" LCM: 23
ISIP: 1,142# / 45" Cl (5M)
FFP: 67# - 155# / 60" Ca (80)
FSIP: 1.141# / 90" Solids:
118 deg F 5.5%
MH: 1,925# - 1,927#

CFS @ 4,138': 60" & DST #3

Bottoms up after
DST #2, 29 units

CFS @ 4,151': 60"

CFS @ 4,151': 30"

DST #2 - LANSING D
4,100' - 4,138'
Rec:
25' GAS in Pipe
15' G&WcMOIL
(4%G,13%W,
17%M,66%O)
20' OIL c Mud
(6%O,94%M)

IFP: 16# - 25# / 30"
ISIP: 1,059# / 30"
FFP: 27# - 33# / 30"
FSIP: 1.002# / 30"

Vis: 50 113 deg F
Wt: 9.0 MH: 1,921# - 1,920#
LCM: 2#

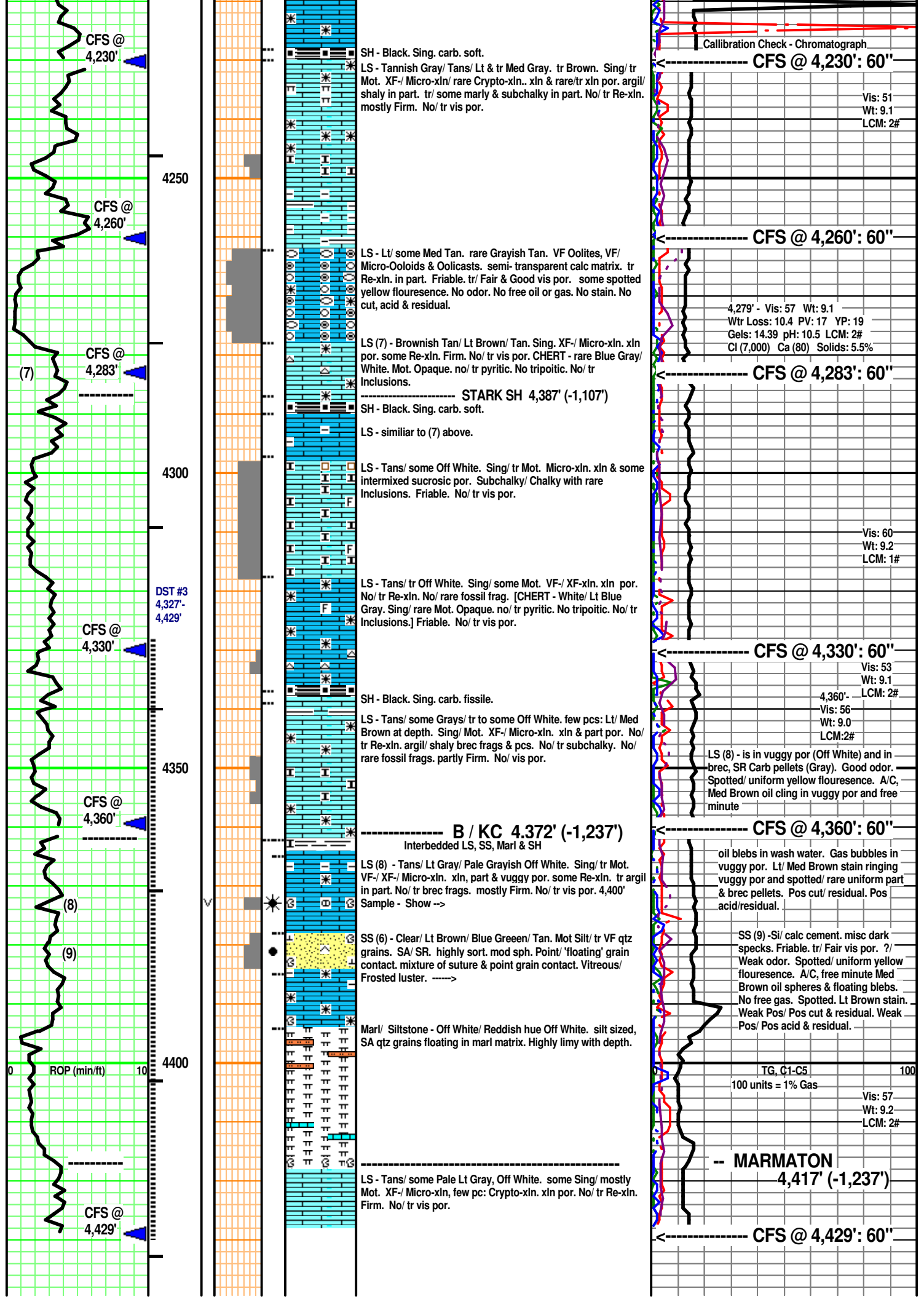
CFS @ 4,196': 60"

100 units = 1% Gas

TG, C1-C5 100

Vis: 52
Wt: 9.1
LCM: 2#

Calibration Check - Hotwire



CFS @ 4,230'

CFS @ 4,260'

CFS @ 4,283'

CFS @ 4,330'

CFS @ 4,360'

CFS @ 4,429'

4250

4300

4350

4400

DST #3
4,327'-
4,429'

ROP (min/ft)

SH - Black. Sing. carb. soft.
LS - Tannish Gray/ Tans/ Lt & tr Med Gray. tr Brown. Sing/ tr Mot. XF-/ Micro-xln/ rare Crypto-xln.. xln & rare/tr xln por. argill/ shaly in part. tr/ some marly & subchalky in part. No/ tr Re-xln. mostly Firm. No/ tr vis por.

LS - Lt/ some Med Tan. rare Grayish Tan. VF Oolites, VF/ Micro-Ooloids & Oolcasts. semi-transparent calc matrix. tr Re-xln. in part. Friable. tr/ Fair & Good vis por. some spotted yellow fluorescence. No odor. No free oil or gas. No stain. No cut, acid & residual.

LS (7) - Brownish Tan/ Lt Brown/ Tan. Sing. XF-/ Micro-xln. xln por. some Re-xln. Firm. No/ tr vis por. CHERT - rare Blue Gray/ White. Mot. Opaque. no/ tr pyritic. No tripolitic. No/ tr Inclusions.

STARK SH 4,387' (-1,107')

SH - Black. Sing. carb. soft.
LS - similar to (7) above.

LS - Tans/ some Off White. Sing/ tr Mot. Micro-xln. xln & some intermixed sucrosic por. Subchalky/ Chalky with rare Inclusions. Friable. No/ tr vis por.

LS - Tans/ tr Off White. Sing/ some Mot. VF-/ XF-xln. xln por. No/ tr Re-xln. No/ rare fossil frag. [CHERT - White/ Lt Blue Gray. Sing/ rare Mot. Opaque. no/ tr pyritic. No tripolitic. No/ tr Inclusions.] Friable. No/ tr vis por.

SH - Black. Sing. carb. fissile.
LS - Tans/ some Grays/ tr to some Off White. few pcs: Lt/ Med Brown at depth. Sing/ Mot. XF-/ Micro-xln. xln & part por. No/ tr Re-xln. argill/ shaly brec frags & pcs. No/ tr subchalky. No/ rare fossil frags. partly Firm. No/ vis por.

B / KC 4,372' (-1,237')
Interbedded LS, SS, Marl & SH

LS (8) - Tans/ Lt Gray/ Pale Grayish Off White. Sing/ tr Mot. VF-/ XF-/ Micro-xln. xln, part & vuggy por. some Re-xln. tr argil in part. No/ tr brec frags. mostly Firm. No/ tr vis por. 4,400' Sample - Show -->

SS (6) - Clear/ Lt Brown/ Blue Green/ Tan. Mot Silt/ tr VF qtz grains. SA/ SR. highly sort. mod sph. Point/ 'floating' grain contact. mixture of suture & point grain contact. Vitreous/ Frosted luster. ----->

Marl/ Siltstone - Off White/ Reddish hue Off White. silt sized, SA qtz grains floating in marl matrix. Highly limy with depth.

LS - Tans/ some Pale Lt Gray, Off White. some Sing/ mostly Mot. XF-/ Micro-xln, few pc: Crypto-xln. xln por. No/ tr Re-xln. Firm. No/ tr vis por.

Calibration Check - Chromatograph

CFS @ 4,230': 60"

Vis: 51
Wt: 9.1
LCM: 2#

CFS @ 4,260': 60"

4,279' - Vis: 57 Wt: 9.1
Wtr Loss: 10.4 PV: 17 YP: 19
Gels: 14.39 pH: 10.5 LCM: 2#
Cl (7,000) Ca (80) Solids: 5.5%

CFS @ 4,283': 60"

Vis: 60
Wt: 9.2
LCM: 1#

CFS @ 4,330': 60"

Vis: 53
Wt: 9.1
LCM: 2#

4,360' -
Vis: 56
Wt: 9.0
LCM: 2#

CFS @ 4,360': 60"

oil blebs in wash water. Gas bubbles in vuggy por. Lt/ Med Brown stain ringing vuggy por and spotted/ rare uniform part & brec pellets. Pos cut/ residual. Pos acid/residual.

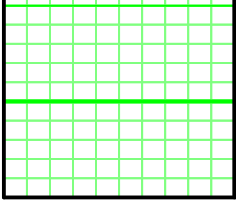
SS (9) -Si/ calc cement. misc dark specks. Friable. tr/ Fair vis por. ?/ Weak odor. Spotted/ uniform yellow fluorescence. A/C, free minute Med Brown oil spheres & floating blebs. No free gas. Spotted. Lt Brown stain. Weak Pos/ Pos cut & residual. Weak Pos/ Pos acid & residual.

TG, C1-C5
100 units = 1% Gas

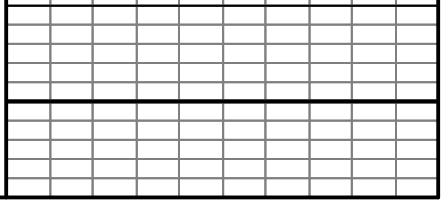
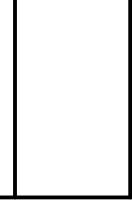
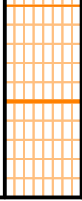
Vis: 57
Wt: 9.2
LCM: 2#

MARMATON
4,417' (-1,237')

CFS @ 4,429': 60"



4450



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' (-855')	
Muncie Creek SH	4,195' (-1,015')	
Stark SH	4,387' (-1,107')	
B / KC	4,372' (-1,182')	
Marmaton	4,417' (-1,237')	
Pawnee LS	4,505' (-1,325')	
Cherokee Sh	4,588' (-1,408')	
'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):
 (14,000 ppm)
 Reported Rw = 0.28 ohms @ 78 deg F
 Diamond Testing ... Hosington KS.
 Sampler: NA

DST #2 - LANSING 'D'

Rotary Depth: 4,100' - 4,138'
 Logger's Depth:
 IFP: 16# - 25# / 30"
 ISIP: 1,059# / 30"
 FFP: 27# - 33# / 30"
 FSIP: 1,002# / 30"
 113 deg F
 MH: 1,921# - 1,920#

Recovery: 25' GAS in Pipe
 15' G&W cut Muddy OIL (4%G,13%W,17%M,66%O)
 20' OIL c Mud (6%O,94%M)

Total Fluid: 35'

IF: Weak 1/8 inch Blow built to 1-1/4 inches.
 ISI: No Blow back.
 FF: Weak Surface Blow in 10 minutes increasing to 1/4 inch.
 FSI: No Blow back.

Recovery Water: (9,000 ppm)
 Recovery Water pH: 10.5
 System Water: (5,000 ppm)
 Recovery Water (Engineer): (NA)
 Reported Rw = 0.34 ohms @ 104 deg F
 Diamond Testing ... Hosington KS.
 Sampler: 12% OIL, 88%Mud

DST #3 - KC / PLEASANTON

Rotary Depth: 4,327' - 4,429'
 Logger's Depth:
 IFP: 123# - 542# / 30"
 ISIP: 1,315# / 45"
 FFP: 568# - 1,005# / 60"
 FSIP: 1,318# / 90"
 123 deg F
 MH: 2,073# - 2,071#

Recovery: 45' Mud
 315' Watery Mud (50%W,50%M)
 189' Muddy Water (35%M,65%W)
 1,575' Water

Total Fluid: 2,124'

IF: Good 2 inch Blow built to BOB in 2-3/4 minutes.
 ISI: No Blow back.
 FF: Fair 1 inch Blow built to BOB in 3-3/4 minutes.
 FSI: No Blow back.

Recovery Water: (29,500 ppm)
 System Water: (6,000 ppm)
 Recovery Water (Engineer): NA
 Reported Rw =
 0.16 ohms @ 82 deg F
 Diamond Testing ... Hoisington, KS.
 Sampler: 100% Saltwater - few OIL spots

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').
 30 --- Resumed Drilling @ 4:45am.
 6:30am @ 4,115'. DST #2:
 Lansing 'D' (4,100'-4,138')
 Resumed Drilling @ 8:50pm.
 31 --- 6:30am @ 4,245'. Start and

7-7/8" Hole

1 Aug --- 6:30am @ 4,429'.
 Finish DST #3: KC /
 Pleasanton (4,327'-4,429').
 Resume Drilling @ 1:15pm.
 2 --- Start and
 6:30am @ 4,608'. Finish
 DST #4: Cherokee LM
 (4,522'-4,608').
 Resume Drilling @
 3 --- 6:30am @

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' /	--- 1.00 (DST #1)						
4,429' /	--- MR (7?) (DST #3)						
4,608' /	--- (DST #4)						

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

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/36M @ 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

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

- P
- B
- S
- M
- I
- K
- T
- C
- H
- G
- J
- L
- O
- Q
- R
- U
- V
- W
- X
- Y
- Z

STRINGER

- Calc dol
- Silty dol
- Anhy
- Arg
- Bent
- Coal
- Dol

- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Copper
- Ooliticastic
- Ooloid
- Oolite
- Sucrosic
- Dark specks

SHOW

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

- Gyp
- Ls
- Mrst
- Calc dol
- Sltstrg
- Ssstrg
- Chalk
- New symbol

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

- Mica
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag

- 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
- Oolite
- Sucrosic
- Dark specks

STRINGER

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

OTHER SYMBOLS

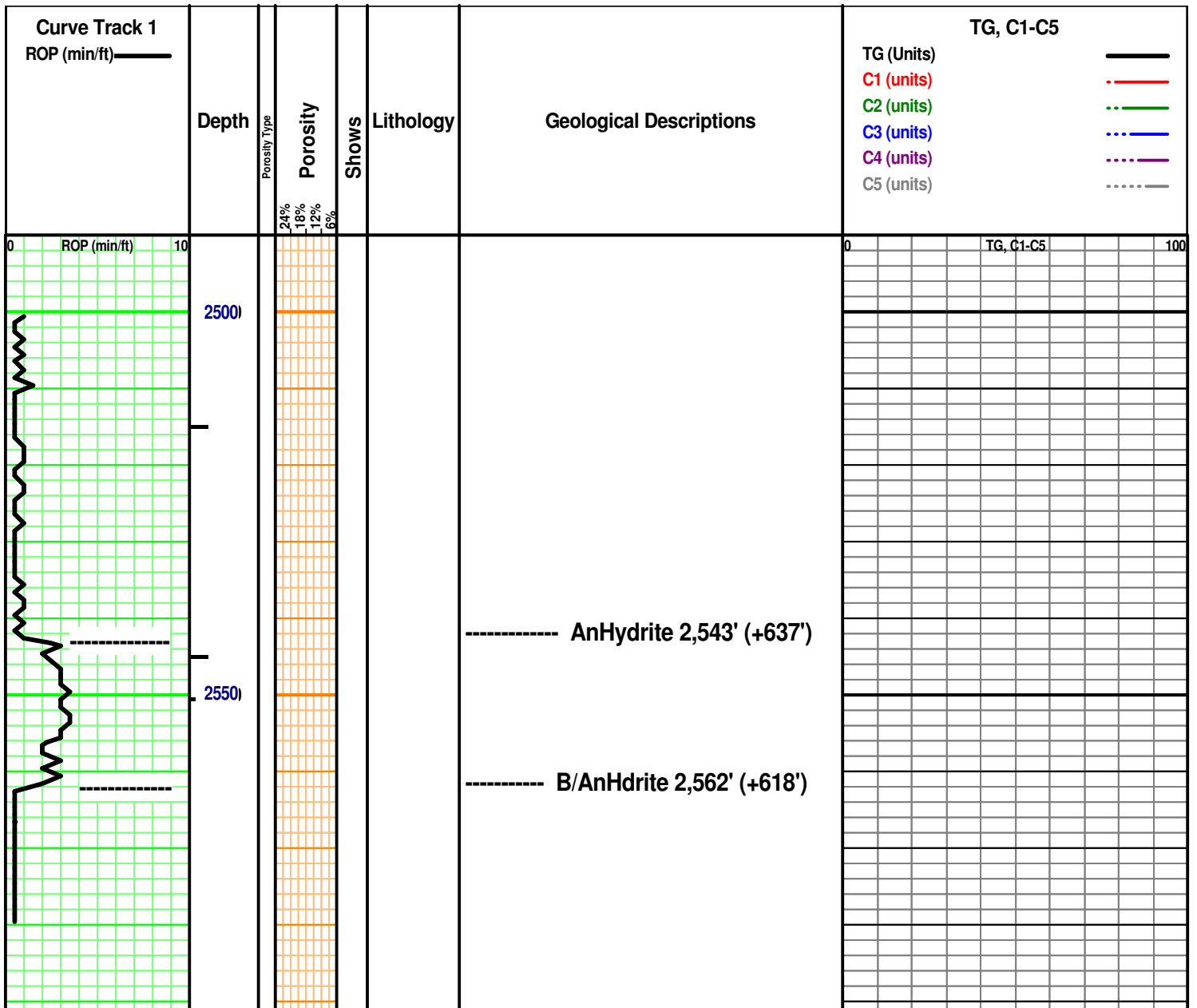
ACTIVITY

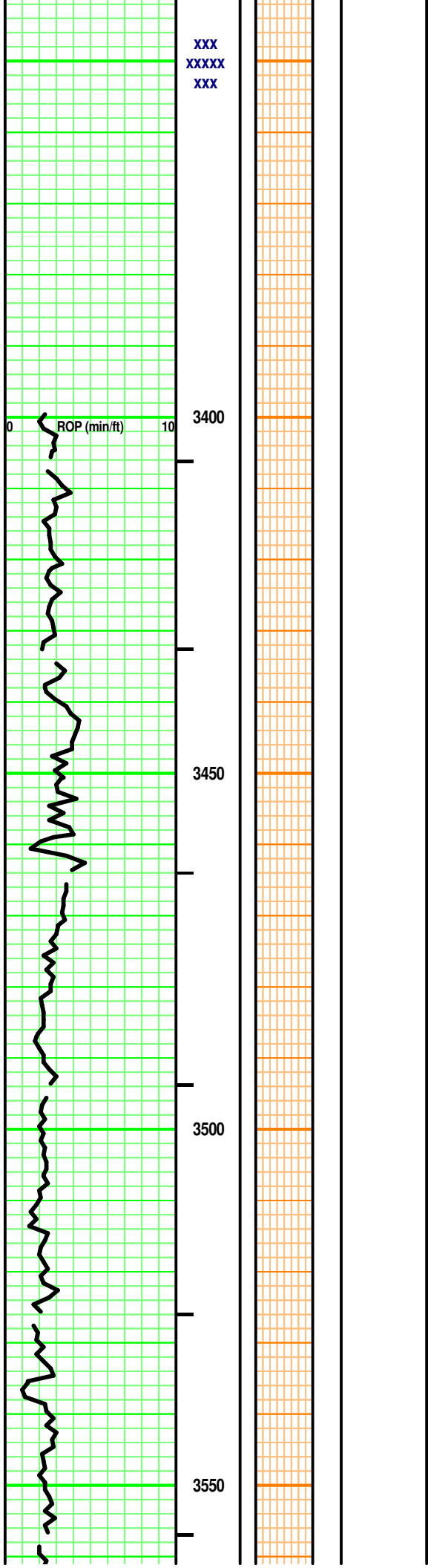
- Lost circluation
- Circulate for same

- Circulate for same
- Rtd
- Trip

- EVENT
- Connection
- Rft

- Sidewall





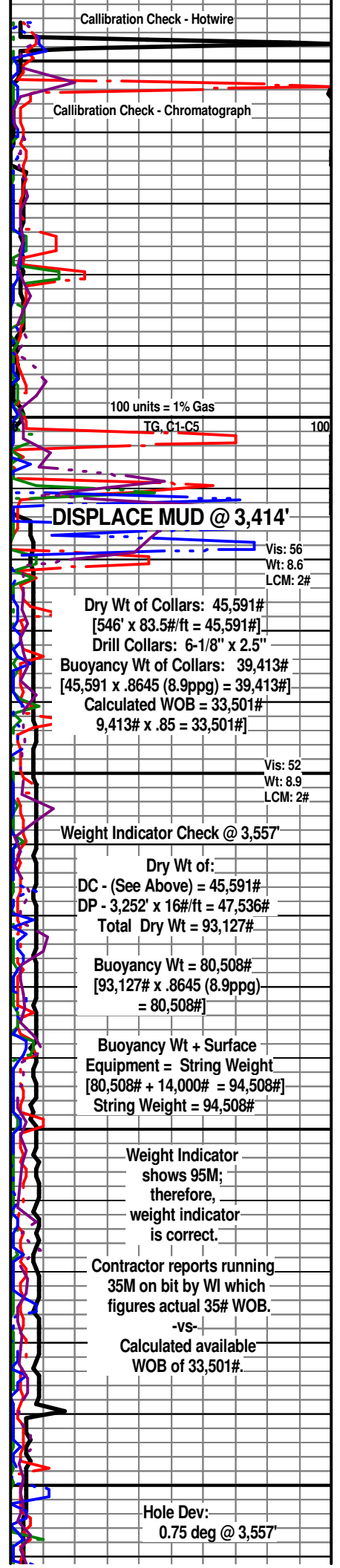
XXX
XXXXX
XXX

0 ROP (min/ft) 10 3400

3450

3500

3550



Calibration Check - Hotwire

Calibration Check - Chromatograph

100 units = 1% Gas

TG, C1-C5

100

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.

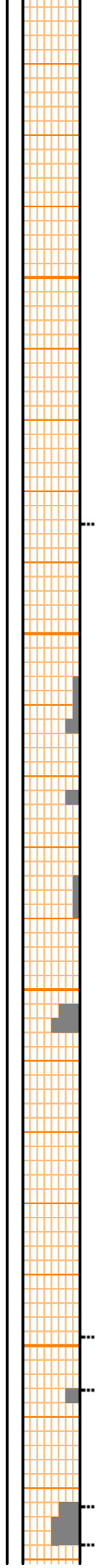
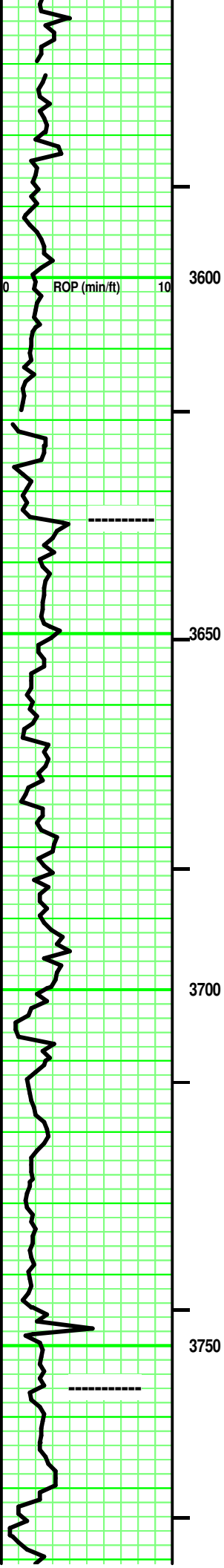
Contractor reports running
35M on bit by WI which
figures actual 35# WOB.

-vs-

Calculated available
WOB of 33,501#.

Hole Dev:
0.75 deg @ 3,557'

Vis: 3.557' -
 Wt: 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%



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.

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.

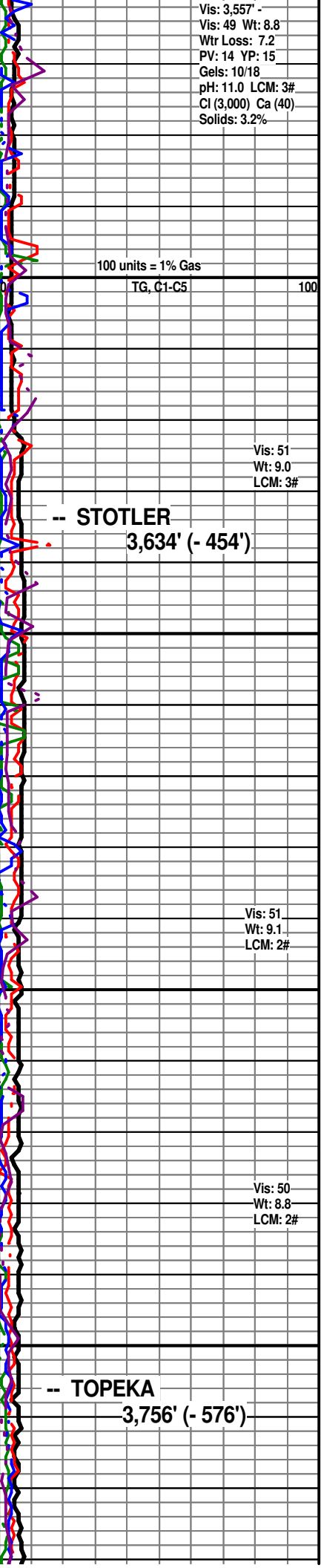
LS - Lt Tan/ some Pale Lt Gray. Sing/ Mot.
 VF-/XF-xln. xln por. some argil intermixed and
 interbedded. (marly?) No/ tr vis por.

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 Crypto-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-Oolites. Clear/ Tan opaque matrix.
 Friable. No/ tr vis por.

LS - Lt/ Med Tan. some Tannish Off White/ Lt



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

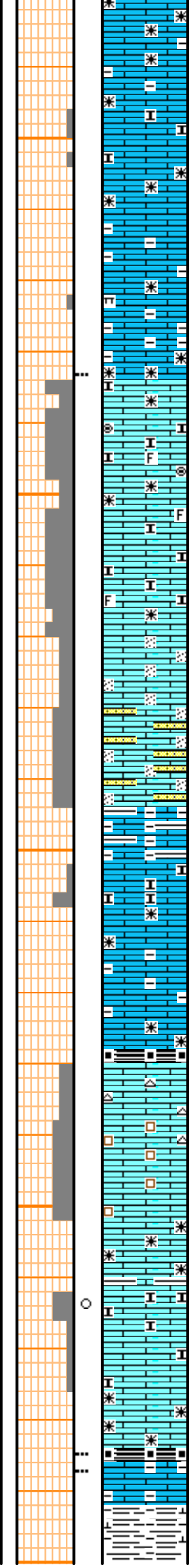
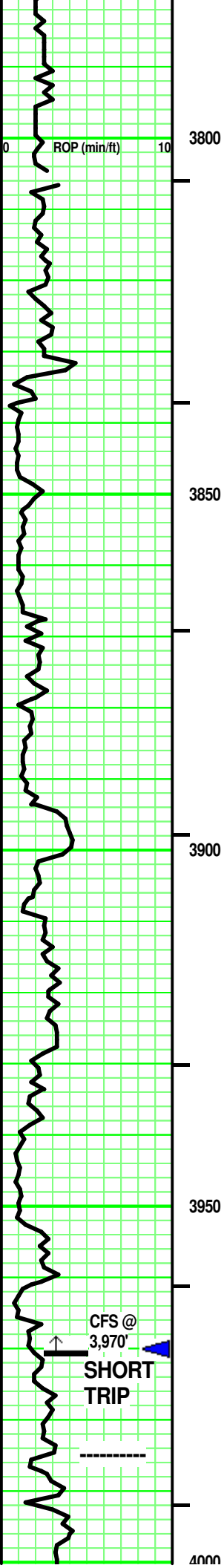
Vis: 51
 Wt: 9.0
 LCM: 3#

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

Vis: 51
 Wt: 9.1
 LCM: 2#

Vis: 50
 Wt: 8.8
 LCM: 2#

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



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.

LS - Tans/ some Off White/ tr/ 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.

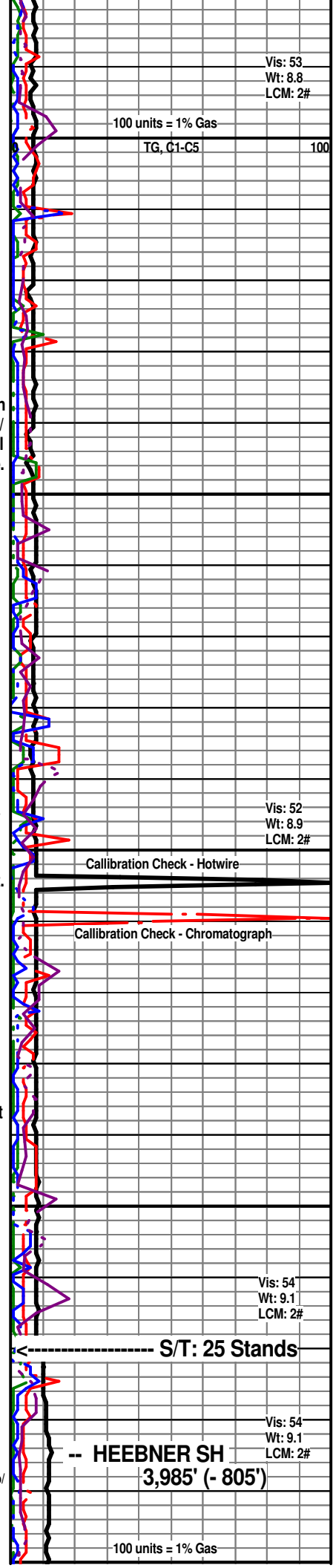
SH - Black. Sing. carb. tr fissile.

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.

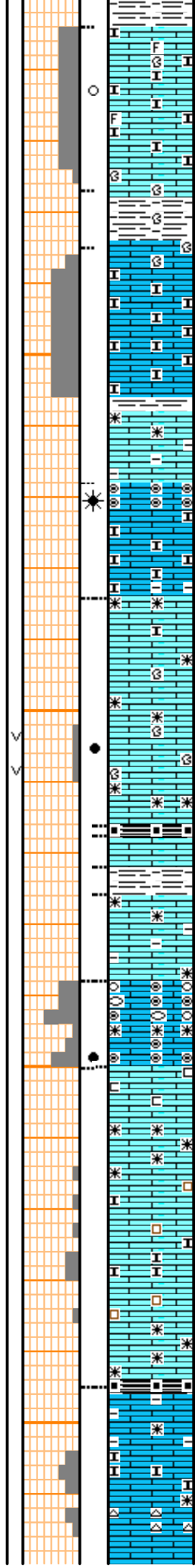
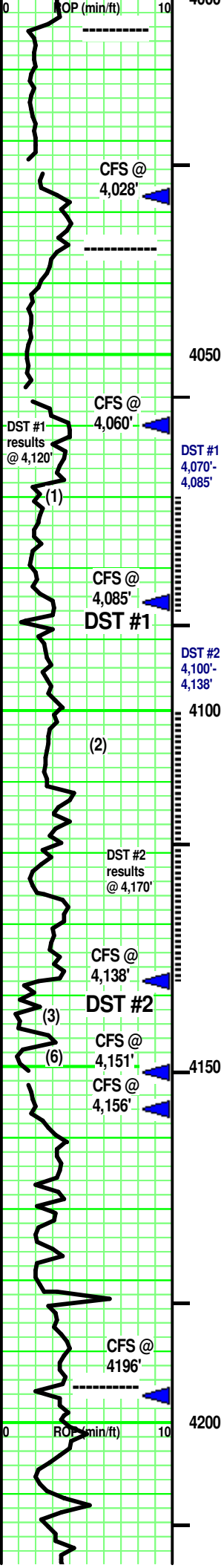
SH - Med Gray/ Tannish Gray. Sing. highly limy with depth.



CFS @ 3,970'

SHORT TRIP

HEEBNER SH
3,985' (- 805')



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 brecc 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 brecc 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 Friable. tr/ some Fair vis por. Weak odor. Spotted yellow fluorescence. 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.

LS (5) - Lt Tan/ Off White VF Oolites, some Ooloids. tr Oolitic. Brown, semitransparent Matrix. No/ some Re-xln. Friable. No/ tr/ some Fair vis por.

LS (6) - Off White Micro-Oolites. rare Clear/ mostly opaque Off White Matrix. Friable. Fair vis por. No/? odor. Spotted yellow fluorescence. A/C, minute Dark Brown oil spheres clinging to rx chip. rare free minute Dark Brown oil. No gas. Spotted, irregular Lt Brown stain. Weak Pos cut & residual. Weak Pos acid & residual.

Interbedded LS

LS - Lt & Med Tan. Sing. Micro-/ tr to some Crypto-xln. xln por. No/ tr Re-xln. Firm. No/ tr vis por.

LS - Tans/ Off White. Sing/ some Mot. XF-xln. xln & part por. tr calc Re-xln. rare fossil frags. Subchalky in part. Friable. No/ tr vis por.

LS - Tans/ Off White. Sing/ some Mot. VF-/ XF-xln. xln & sucrosic por. Subchalky in part. Friable. No/ tr vis por.

MUNCIE CREEK 4,195' (-1,015')

SH - Black. Sing. carb. soft.

LS - Lt/ Med Tan, tr Lt Brownish Tan. tr/ some Pale Gray at top. XF-/ Micro-xln. xln por. marly/ pyritic at top. tr interbedded Lt/ Med Gray shale. subchalky in part. No/ tr Re-xln. mostly Firm. No/ tr vis por.

[few pcs: CHERT - White. Sing. Opaque. rare Inclusion. No tripolitic.]

TG, C1-C5 100

-- TORONTO
4,004' (- 824')

Vis: 52
Wt: 9.1
LCM: 2#

CFS @ 4,028': 60"

-- LANSING
4,035' (- 855')

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.
CHC: 60"

Vis: 51
Wt: 9.1
LCM: 1#

Board: 4,088.31'
Strap: 4,090.82
Diff: 2.51'
Hole Dev: 1 deg @ 4,126'
DST #1.

DST #1 - LANSING B v--- 4,138' - 4,070' - 4,085' Vis: 54 Wt: 9.1
Rec: 290' Salt Wtr WL: 9.6 + OIL scum PV: 16 YP: 17 pH: 10.0 LCM: 23
IFP: 18# - 64# / 30" Cl (5M)
ISIP: 1,142# / 45" Ca (80)
FFP: 67# - 155# / 60" Solids: 5.5%
FSIP: 1.141# / 90" 118 deg F
MH: 1,925# - 1,927#

CFS @ 4,138': 60" & DST #3

Bottoms up after DST #2, 29 units

CFS @ 4,151': 60"

CFS @ 4,151': 30"

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

Rec: 25' GAS in Pipe
15' G&WcMOIL (4%G,13%W, 17%M,66%O)
20' OIL c Mud (6%O,94%M)

IFP: 16# - 25# / 30"
ISIP: 1,059# / 30"
FFP: 27# - 33# / 30"
FSIP: 1.002# / 30"

Vis: 50
Wt: 9.0
LCM: 2#

MH: 1,921# - 1,920#

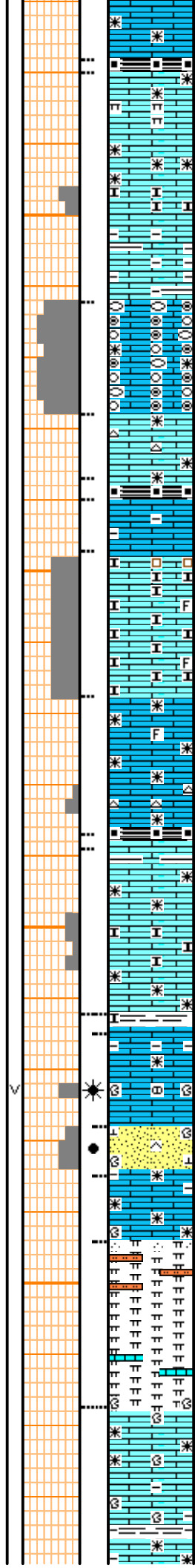
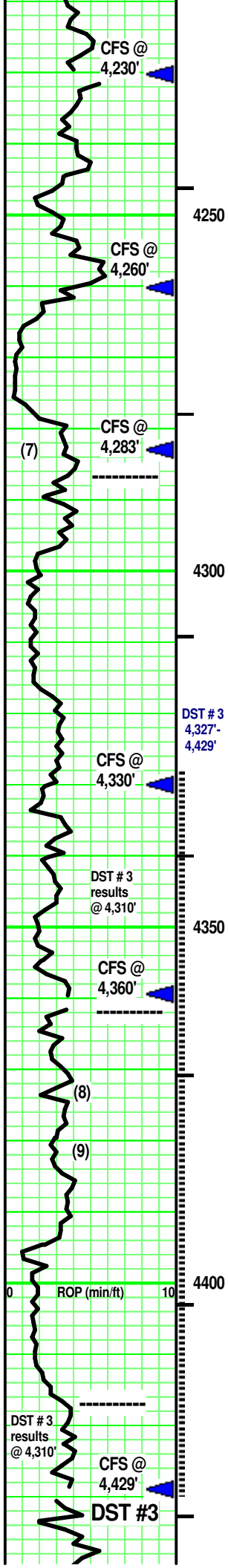
CFS @ 4,196': 60"

100 units = 1% Gas

TG, C1-C5 100

Vis: 52
Wt: 9.1
LCM: 2#

Calibration Check - Hotwire



SH - Black. Sing. carb. soft.
 LS - Tannish Gray/ Tans/ Lt & tr Med Gray. tr Brown. Sing/ tr Mot. XF-/ Micro-xln/ rare Crypto-xln.. xln & rare/tr xln por. argil/ shaly in part. tr/ some marly & subchalky in part. No/ tr Re-xln. mostly Firm. No/ tr vis por.

LS - Lt/ some Med Tan. rare Grayish Tan. VF Oolites, VF/ Micro-Ooloids & Oolcasts. semi-transparent calc matrix. tr Re-xln. in part. Friable. tr/ Fair & Good vis por. some spotted yellow fluorescence. No odor. No free oil or gas. No stain. No cut, acid & residual.

LS (7) - Brownish Tan/ Lt Brown/ Tan. Sing. XF-/ Micro-xln. xln por. some Re-xln. Firm. No/ tr vis por. CHERT - rare Blue Gray/ White. Mot. Opaque. no/ tr pyritic. No tripolitic. No/ tr Inclusions.

STARK SH 4,387' (-1,107')
 SH - Black. Sing. carb. soft.
 LS - similar to (7) above.

LS - Tans/ some Off White. Sing/ tr Mot. Micro-xln. xln & some intermixed sucrosic por. Subchalky/ Chalky with rare inclusions. Friable. No/ tr vis por.

LS - Tans/ tr Off White. Sing/ some Mot. VF-/ XF-xln. xln por. No/ tr Re-xln. No/ rare fossil frag. [CHERT - White/ Lt Blue Gray. Sing/ rare Mot. Opaque. no/ tr pyritic. No tripolitic. No/ tr Inclusions.] Friable. No/ tr vis por.

SH - Black. Sing. carb. fissile.
 LS - Tans/ some Grays/ tr to some Off White. few pcs: Lt/ Med Brown at depth. Sing/ Mot. XF-/ Micro-xln. xln & part por. No/ tr Re-xln. argil/ shaly brec frags & pcs. No/ tr subchalky. No/ rare fossil frags. partly Firm. No/ vis por.

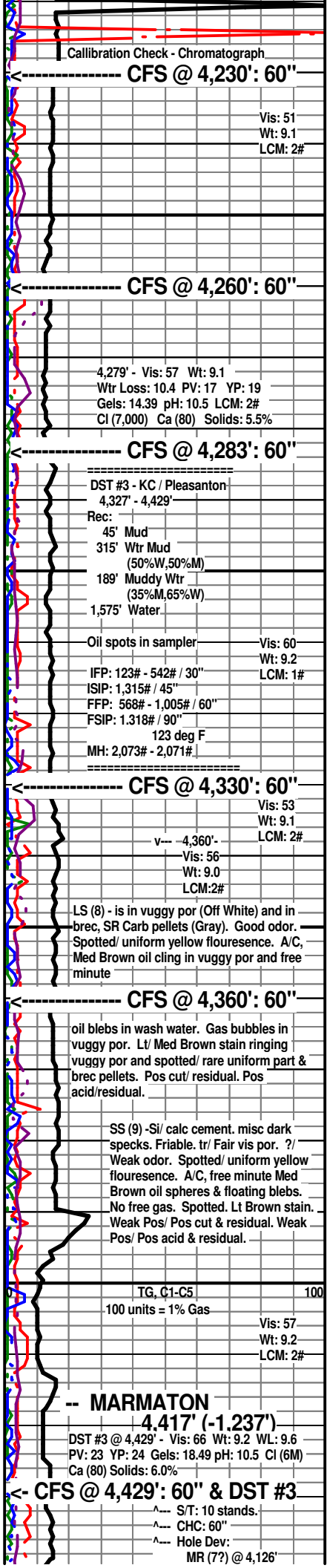
B / KC 4,372' (-1,182')
 Interbedded LS, SS, Marl & SH
 LS (8) - Tans/ Lt Gray/ Pale Grayish Off White. Sing/ tr Mot. VF-/ XF-/ Micro-xln. xln, part & vuggy por. some Re-xln. tr argil in part. No/ tr brec frags. mostly Firm. No/ tr vis por. 4,400' Sample - Show -->

SS (9) - Clear/ Lt Brown/ Blue Green/ Tan. Mot Silt/ tr VF qtz grains. SA/ SR. highly sort. mod sph. Point/ 'floating' grain contact. mixture of suture & point grain contact. Vitreous/ Frosted luster. ----->

LS - similar to (8) above.
 Marl/ Siltstone - Off White/ Reddish hue Off White. silt sized, SA qtz grains floating in marl matrix. Highly limy with depth.

Interbedded LS & SH
 LS - Tans/ some Pale Lt Gray, Off White. some Sing/ mostly Mot. XF-/ Micro-xln, few pc: Crypto-xln. xln por. No/ tr Re-xln. Firm. No/ tr vis por.

LS - Tans/ Lt & Med Gray. Sing/ some Mot. tr XF-/ mostly Micro-xln. xln por. tr/ some Re-xln. tr argil/shaly in part & interbedded. tr fossil frags in part. subchalky to marly in part. partly Firm. No/ tr vis por.



Calibration Check - Chromatograph
 CFS @ 4,230': 60"
 Vis: 51
 Wt: 9.1
 LCM: 2#

CFS @ 4,260': 60"
 4,279' - Vis: 57 Wt: 9.1
 Wtr Loss: 10.4 PV: 17 YP: 19
 Gels: 14.39 pH: 10.5 LCM: 2#
 Cl (7,000) Ca (80) Solids: 5.5%

CFS @ 4,283': 60"
 DST #3 - KC / Pleasanton
 4,327' - 4,429'
 Rec:
 45' Mud
 315' Wtr Mud
 (50%W,50%M)
 189' Muddy Wtr
 (35%M,65%W)
 1,575' Water
 Oil spots in sampler
 Vis: 60
 Wt: 9.2
 LCM: 1#
 IFP: 123# - 542# / 30"
 ISIP: 1,315# / 45"
 FFP: 568# - 1,005# / 60"
 FSIP: 1,318# / 90"
 123 deg F
 MH: 2,073# - 2,071#

CFS @ 4,330': 60"
 Vis: 53
 Wt: 9.1
 LCM: 2#
 v-- -4,360'-
 Vis: 56
 Wt: 9.0
 LCM: 2#

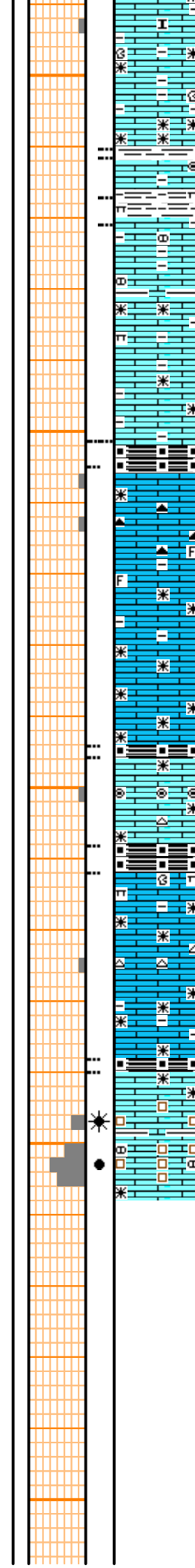
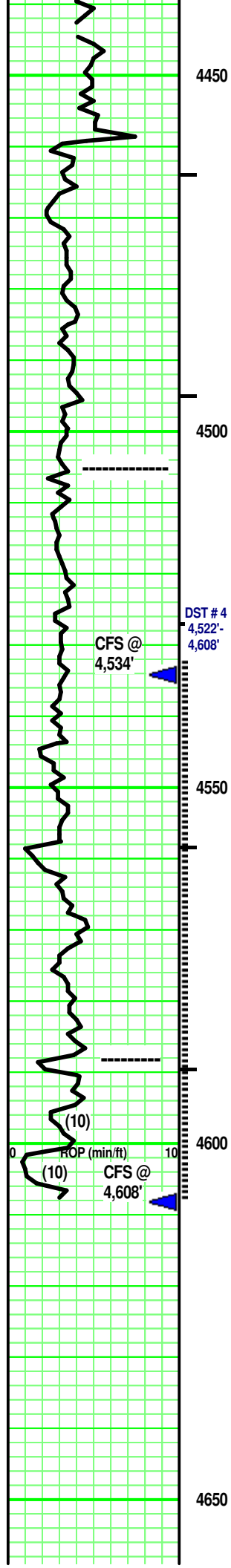
LS (8) - is in vuggy por (Off White) and in brec, SR Carb pellets (Gray). Good odor. Spotted/ uniform yellow fluorescence. A/C, Med Brown oil cling in vuggy por and free minute

CFS @ 4,360': 60"
 oil blebs in wash water. Gas bubbles in vuggy por. Lt/ Med Brown stain ringing vuggy por and spotted/ rare uniform part & brec pellets. Pos cut/ residual. Pos acid/residual.

SS (9) -Si/ calc cement. misc dark specks. Friable. tr/ Fair vis por. ?/ Weak odor. Spotted/ uniform yellow fluorescence. A/C, free minute Med Brown oil spheres & floating blebs. No free gas. Spotted. Lt Brown stain. Weak Pos/ Pos cut & residual. Weak Pos/ Pos acid & residual.

TG, C1-C5
 100 units = 1% Gas
 Vis: 57
 Wt: 9.2
 LCM: 2#

MARMATON
 4,417' (-1,237')
 DST #3 @ 4,429' - Vis: 66 Wt: 9.2 WL: 9.6
 PV: 23 YP: 24 Gels: 18.49 pH: 10.5 Cl (6M)
 Ca (80) Solids: 6.0%
 CFS @ 4,429': 60" & DST #3
 S/T: 10 stands.
 CHC: 60"
 Hole Dev:
 MR (??) @ 4,126'



SH - Lt/ Med Gray. tr Silvery Gray. Sing. No/ some very silty & carb flecks.

Vis: 62
Wt: 9.0
LCM: 2#

LS - Tans/ Grays. Sing/ Mot. tr XR-/ mostly Micro- some Crypto-xln. xln & rare vuggy por. No/ rare Re-xln. tr/ some calc brecc/nodules in part. Firm. No/ tr vis por Med Brown carb flecks in rare vuggy por.

Tan Oolites
Silvery Gray SH

Vis: 58
Wt: 9.0+
LCM: 2#

SH - Black. Sing. carb. tr fissile.

LS - Tans/ some Lt & Med Gray. Sing/ Mot. XF-/ some Micro-xln. xln & part por. tr Re-xln. [some Chert - Off White/ Pale Grayish Tan. Mot. few pcs: Blue gray/ White. Mot. highly fossil inclusions. All chert is Semi-transparent. No tripolitic/ 'fresh'.] few pcs: Tan Micro-Oolite 'hash'. mostly Firm. tr argil. No/ tr vis por.

-- PAWNEE
4,505' (-1,325')

DST # 4
4,522'-
4,608'

CFS @ 4,534': 60"

SH - Black. Sing. carb. tr pyritic soft

LS - Tan/ Pale Lt Gray/ some Off White. Sing/ some Mot. XF-/ Micro-xln. xln por. tr Re-xln. [rare pcs: Lt Gray/ mostly Tan F/VF Oolites & Ooloids in Re-xln, clear, calc matrix. No vis por.]

Vis: 57
Wt: 9.0
LCM: 2#

SH - Black. Sing. carb. tr pyritic soft

LS - Lt & Med Tan/ some Off White. Sing. XF-xln/ Micro-xln. xln & part por. tr Re-xln. some interbedded SH - Lt/ tr Med Gray. Sing. tr calc. Firm. No/ tr vis por.

Vis: 55
Wt: 9.1
LCM: 2#

4,580' Sample had Faint odor. No sample show.

- CHEROKEE SH
4,588' (-1,408')

100 units = 1% Gas

Vis: 52
Wt: 9.1
LCM: 2#

CFS @ 4,608': 60"

SH - Black. Sing. carb. soft.
Interbedded SH & LS

LS (10) - Off White/ Pale Lt Tan. Sing. VF-xln. xln, part & Sucrosic por. some Re-xln. tr LS Micro- nodules. No/ rare minute black specks. Friable. tr/ Fair vis por. ?/ Fair odor. Spotted/ rare uniform yellow fluorescence. On own, rare minute gas bubble clinging to rx chip. A/C, Spotted, irregular minute Dark Brown oil spheres clinging to rx chip. Spotted, irregular Lt/Med Brown stain. Weak Pos/ Pos cut & residual. Weak Pos/ Pos acid & residual.

TG, C1-C5 100

LS - Tans/ Pale Lt Gray/ tr Off Whitish Gray. Sing/ tr Mot. XF-/ Micro-xln. xln por. tr Re-xln. tr argil in part. [some LS& Argil frags/ nodules - Med/ Dark Tan, Dark Gray. VF/ XF. SA.] Firm. No/ tr vis por.

SH - Black. Sing. carb. soft. tr/ some Dark & V Dark Gray. Sing. rare 'rip-up clasts'.

