



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

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



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

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

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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
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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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	New Gulf Operating LLC
Well Name	Sheetz 1
Doc ID	1054664

All Electric Logs Run

Dipole Sonic
Induction
Caliper
Porosity
Compensated Neutron Lithodensity

Form	ACO1 - Well Completion
Operator	New Gulf Operating LLC
Well Name	Sheetz 1
Doc ID	1054664

Tops

Name	Top	Datum
Anhydrite Base	2540	+463
Topeka	3751	-748
Heebner	3963	-960
Toronto	3996	-993
Lansing	4003	-1000
Muncie Creek	4153	-1150
Stark	4234	-1231
BKC	4301	-1298
Marmaton	4338	-1335
Altamont	4366	-1363
Pawnee	4442	-1439
Ft. Scott	4492	-1489
Cherokee	4519	-1516
Johnson	4552	-1549
Mississippian	4619	-1616

DRILLING REPORT

NEW GULF ENERGY
 6310 E. 102nd Street
 Tulsa, Oklahoma 74137
 Office (918) 728-3020

1 SHEETZ
 1382'FSL 1773'FWL
 Section 16-T12S-R32W
 Logan County, Kansas
 API # 15-109-20974

Drilling Contractor: VAL DRILLING RIG 4 (620-617-2793)
 Elevation: GL 2995 **KB 3003**
 Geologist: Curtis Covey 316-258-9976 / Joe Baker 316-253-9696
 Comparison Well: **KB NORTON # 1 Younkin**
 W2 SW/4
 15-12S-32W

New Gulf Rep : Danny Birdwell 432-940-6680/ Engineer JoJo Birdwell 432-634-0773

	SAMPLE TOPS	DATUM	SHOWS
ANHYDRITE	2517	+486	+18
BASE ANHYDRITE	2540	+463	+16
TOPEKA	3751	-748	+17
HEEBNER	3963	-960	+18
TORONTO	3996	-993	+16
LANSING	4003	-1000	+15
"E" Zone			Ls Finexln, Fluorescence, gas bubbles, lt-med staining Weak Cut, No odor No Free oil DST # 1
"F" Zone			Ls Finexln, Fossil, Friable, Lt Odor?, Brown Staining, Oil Blebs on wash water DST # 1
MUNCIE CREEK	4153	-1150	+11
"J" Zone			l piece vuggy porosity, no odor, spotted fluorescence, no free oil, few gas bubbles, spotted cut DST #2
STARK	4234	-1231	+14
"K" Zone			Ls Fnxln- sucrosic porosity, dull fluorescence, gas bubbles, Fair Odor, wk pos cut DST # 2
BKC	4301	-1298	+13
MARMATON	4338	-1335	+12
ALTAMONT	4366	-1363	+12
PAWNEE	4442	-1439	+11
FT SCOTT	4492	-1489	+12
CHEROKEE	4519	-1516	+11
JOHNSON	4552	-1549	+12
MISSISSIPPIAN	4619	-1616	+7
RTD	4780	-1777	Ls w/ Good Vuggy, fossil cast porosity, Good Odor, Show Free Oil, Fluorescence Dark Brown Stain ,Gas Bubbles OVERALL GOOD SHOWS

2/4/2011 287'
 2/6/2011 1935'

2/7/2011 2760'
2/8/2011 3430'
2/9/2011 4030'
2/10/2011 4115' Dst #1 Lansing E & F zones

DST # 1 Lansing E&F Zones
4087-4115
30-45-60-90
IFP: Built to Bottom Of Bucket (OBB) in 11 min. No Blow Back
FFP: Built to Bottom Of Bucket (OBB) in 18 min. No Blow Back
**Recovery: 715' Gassy Muddy Water w/ a light scum of Oil
(2% Gas, 80%Wtr, 18% Mud)
Chlorides 40,000 PPM System Chlorides 2,200**
IFP/FFP: 12-135/141-335#
ISP/FSP: 1175/1166# BHT:129
IHP/FHP: 1939/1928 #

2/11/2011 4256'

DST # 2 Lansing H,I J, K Zones
4143-4256'
30-45-60-90
IFP: Built to Bottom Of Bucket (BOB) in 7 min. 11/4" Blow Back
FFP: Built to Bottom Of Bucket (BOB) in 8 min. 11/2" Blow Back
Recovery:
140' Gas In Pipe
171' CLEAN OIL
378' Gassy Oily Muddy Water (10% Gas, 11% Oil,19% wtr,60% Mud)
315' Muddy Water (17% Mud, 83% wtr)
IFP/FFP: 15-155/165-379#
ISP/FSP: 1276/1260#
IHP/FHP: 1967/1958 # BHT:117

2/12/2011 4390' Drilling ahead in the Altamont

2/13/11 4583 Dst # 3 Johnson Zone

DST # 3 Johnson
4510-4583'
30-45-60-90
IFP: BOB in 4 Min.
ISP: BOB in 14 Min (Blow Back)
FFP:BOB 31/2 Min
FSP: BOB in 13 Min. (Blow Back)
Recovery:
935' Gas In Pipe
325' Muddy Oil (96% oil, 3% Mud, 1% Water)
882' Muddy Oil (81% Oil, 19% Mud)
126' Gassy Muddy Oil (3% Gas,92% Oil, 5% Mud)
Total Fluid: 1333 Ft
IFP/FFP: 20-229/240-527#
ISP/FSP: 1139/1135#
IHP/FHP: 2233/2182 # BHT:129 Grav:28.2 @ 60 Deg.

2/14/2011 RTD 4780 Logging

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/>

Thomas E. Wright, Chairman
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

April 25, 2011

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

Re: ACO1
API 15-109-20974-00-00
Sheetz 1
SW/4 Sec.16-12S-32W
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,
Wink Kopczynski

Covey

The Well Watchers

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

Well Name: SHEETZ #1
Location: Section 16 - Township 12 South - Range 32 West
Licence Number: 15-109-20,974. 0000 Region: Logan County, KS.
Spud Date: 4 February 2011 Drilling Completed:
Surface Coordinates: 1,382' FSL & 1,773' FWL
(Approximately SE SW NE SW)

Bottom Hole
Coordinates:
Ground Elevation (ft): 2,995' K.B. Elevation (ft): 3,003'
Logged Interval (ft): 3,350' To: Total Depth (ft):
Formation: Stotler -----> Miss
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

2011

DAILY DRILLING STATUS -- FEBRUARY

2011

	12-1/4" Hole	7-7/8" Hole	7-7/8" Hole
4 Feb	--- Spud @ 6:30pm. Drill to 272'.	5 Feb	--- WOC. 6:30am @ 272'.
5	--- Run 8-5/8" casing (23#) Set casing @ 269'. Cemented w/ 200 sx Class A (2% Gel + 3% CC). [Consolidated] Cement did circulate. Plug down @ 2:45am. WOC.		Under surface casing @ 11:30am.
		6	--- 6:30am @ 1,935'.
		7	--- 6:30am @ 2,760'.
		8	--- Displace Mud @ 3,339'. 6:30am @ 3,445'.
		9	--- 6:30am @ 4,030'. Start
		10	--- 6:30am @ 4,115'. Finish DST #1: Lansing (4,087' - 4,115').

KB: 3,003'

FORMATION TOPS

GL: 2,995'

Formation	Rotary Sample Depth (Datum)	E-log Depth (Datum)
AnHydrite	2,517' (+486)' *	
B / AnHydrite	2,540' (+463)' *	
Stotler	3,620' (-617')	
Topeka	3,851' (-748')	
Heebner Shale	3,963' (-960')	
Toronto	3,996' (-993')	
Lansing	4,003' (-1,000')	
Muncie Creek SH		
Stark SH		
B / KC		
Pawnee LS		
Ft. Scott		
Cherokee Sh		
Lower Cherokee Sh		
'Johnson' Zone		
Morrow Shale		
Miss (Erosional)		

* Contractor

RTD: LTD: ATD: E-log is to rotary sample depth, uphole. E-log is to rotary sample depth, mid- & down hole. Loggers: Schlumberger Elk City, Oklahoma

HOLE DEVIATION (272' - ')

DEPTH / TVD	--- INCLINATION	AZIMUTH	NORTH	SOUTH	EAST	WEST	DOGLEG deg/100'
272' /	--- 0.75 (Surface)						
1,291' /	--- 1.00						
2,234' /	--- 1.00						
3,110' /	--- 1.00						
4,115' /	--- (DST #1)						

CONTRACTOR**VAL Energy --- Rig #4**

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

Rig #4 - (620) 617-2793

Larry Hinderliter - (620) 804-0097

Pump: National K-500A
6" x 15" @ 58 SPM.
1,000 PSI @ Standpipe.

Uphole Hole:
WOB 35M @ 80 RPM.

After Mudup / Main Hole:
WOB 40M @ 70 RPM.

Drill Collars: 6-1/8" x 2.50" --- 469'. (83.5#/ft)
Dry Collar Weight: 39,162#
(@ 9.5 ppg / Buoyancy Factor 0.8545)
Buoyancy Collar Weight: 33,464#
Design Factor: 15%, therefore:
available WOB is 28,444#
Drill Pipe: 4-1/2"XH. (16#/ft - used)

BIT RECORD

DATE	SIZE	TYPE	JET SIZE	DEPTH IN / OUT	CUM. FT.	HOURS	ROP
4 Feb 2011	12-1/4"	REED RR	3 / 15's	0' / 272'	272'	2.50	108.8
5 Feb 2001	7-7/8"	JZ QX-21	13 - 14 - 13	272' /			

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
- Breccfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl

- Mica
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breccfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl

STRINGER

- Calc dol
- Silty dol
- Anhy

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

- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Calc dol
- Sltstgr
- 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

- Mica
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breccfrag

- Calc
- 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
- Sltstgr
- Ssstrg
- Chalk
- New symbol

OTHER SYMBOLS

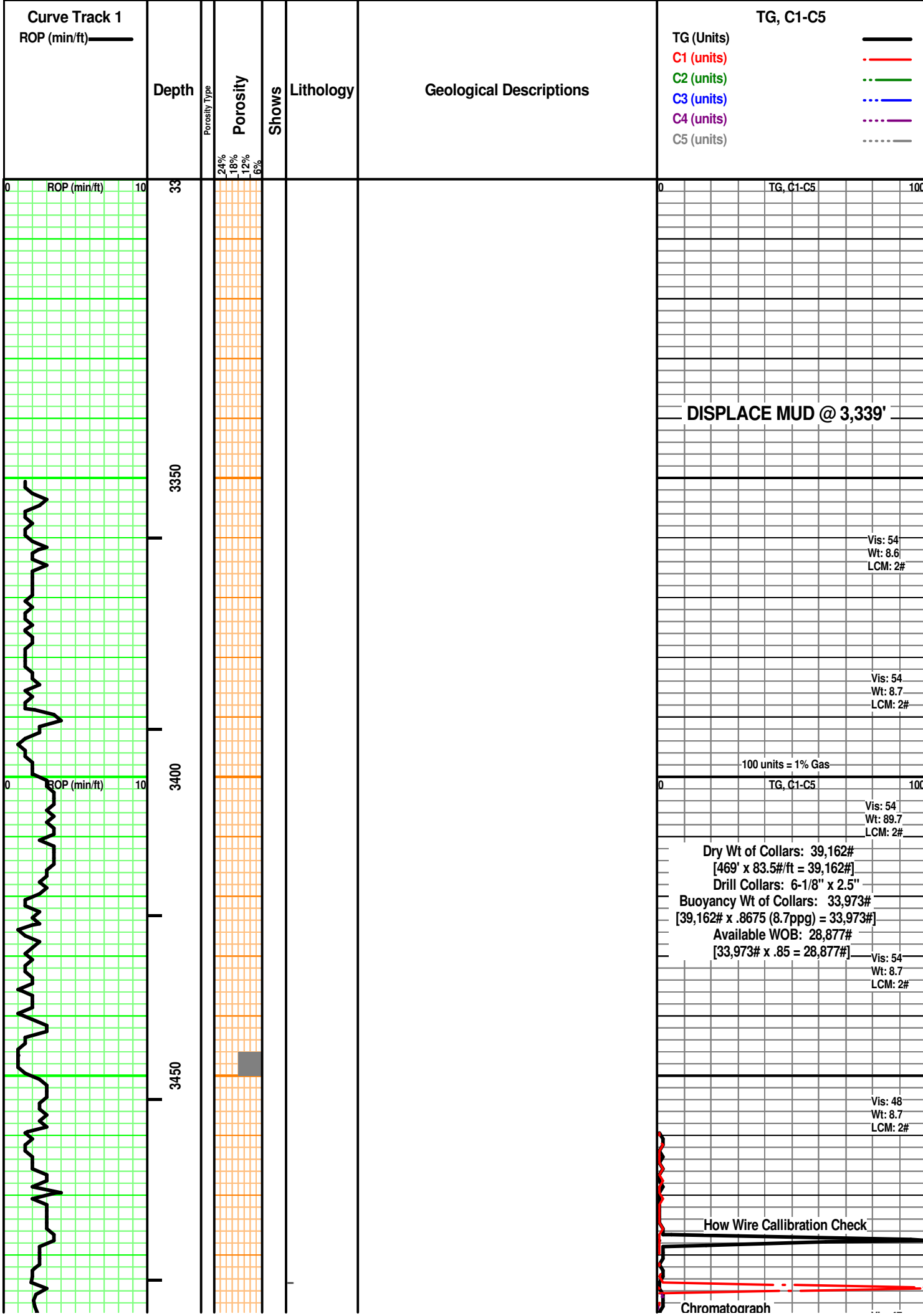
ACTIVITY

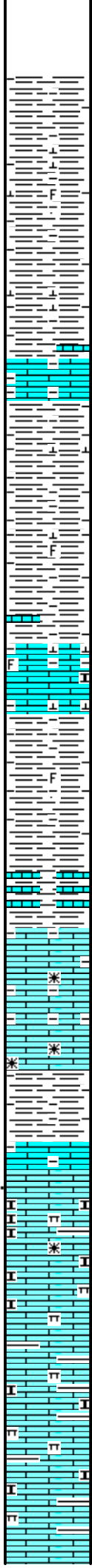
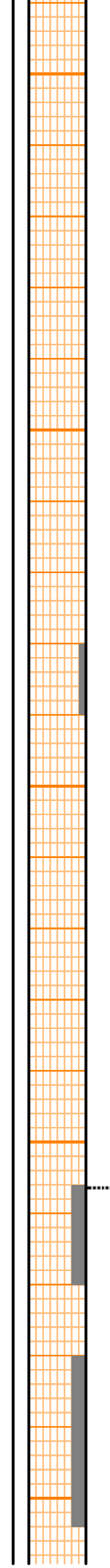
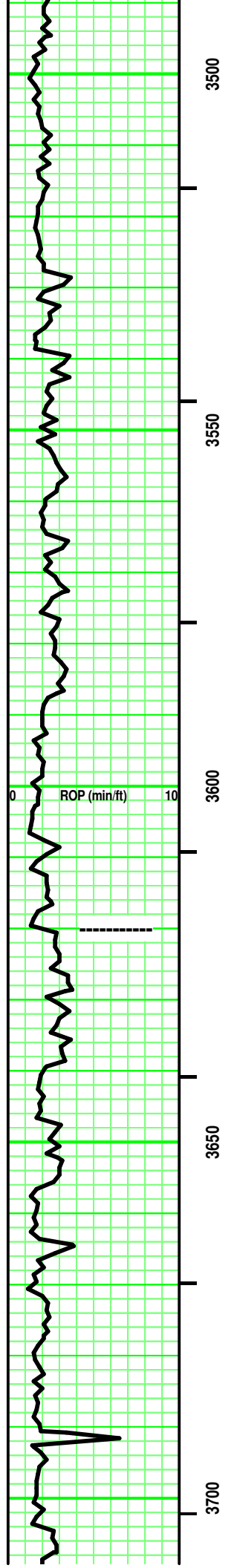
- Lost circluation
- Circulate for same

- Circulate for same
- Rtd
- Trip

- Connection
- Rft

- Sidewall





Interbedded SH & LS
 SH - Lt/ Med Gray. tr Tannish Gray to Brownish Gray. some limy streaks. some calc in part. rare fossil frag. soft.

LS - Tan/ tr to some Pale to Lt Gray. Sing. XF-/ Micro-xln. xln por. tr argil in part. rare fossil frag. partly Firm. No/ tr vis por.

Interbedded SH & LS
 SH - Lt/ Med Gray. tr Tannish Gray to Brownish Gray. some limy streaks. some calc in part. rare fossil frag. soft.

LS - Tan/ tr to some Pale to Lt Gray. Sing. XF-/ Micro-xln. xln por. tr subchalky in part. tr argil in part. rare fossil frag. partly Firm. No/ tr vis por.

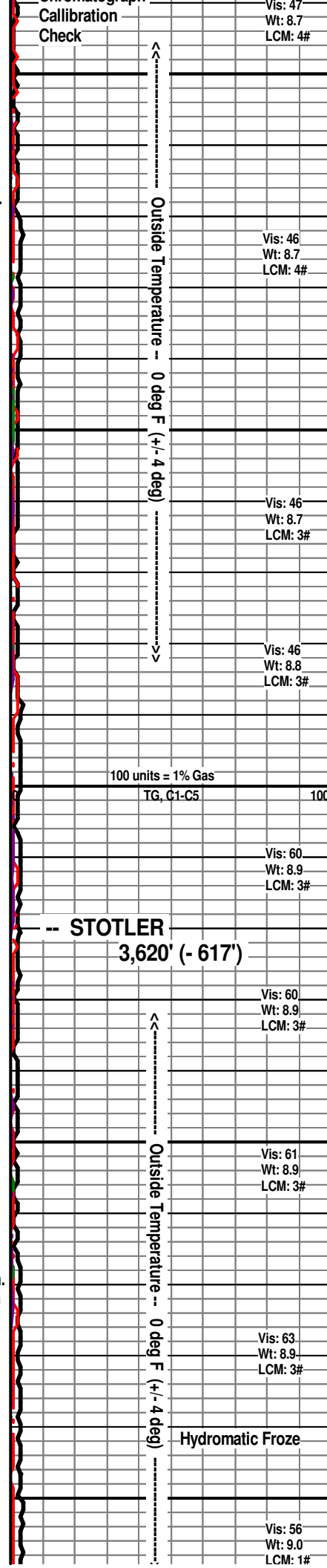
LS (1) - Tans/ tr Off White. some Lt Gray in part. Sing/ tr Mot. tr VF/ mostly XF-xln & Micro-xln. xln por. tr Re-xln. some interbedded argil/shale (Grays). mostly Firm. No/ tr vis por.

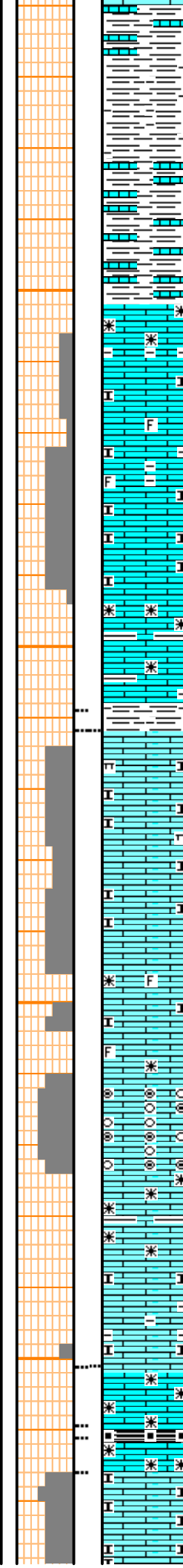
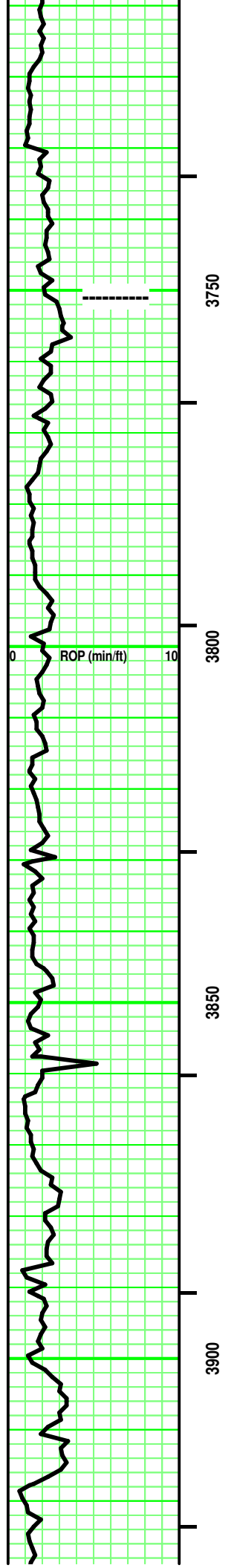
SH - Med Gray. Sing. soft. tr blocky.

LS - similiar to (1) above.

Interbedded SH & LS
 SH - Lt/ Med Gray. tr Tannish Gray. some limy streaks. some calc in part. soft.

LS - Tans / tr Pale to Lt Gray. Sing. XF-/ Micro-xln. xln por. rare Re-xln. tr argil in part. subchalky in part. tr marly in part. No/ tr vis por.





SH - Lt/ Med Gray. Sing. highly limy (Tannish Gray) to LS stringers (Tan, Micro-xln).

LS - Grays/ Tans. Sing/ somt to mostly Mot. XF-/ mostly Micro-xln. xln por. some subchalky. tr fossil frags. some intermixed/ interbedded argil or shale (Med/Dark Gray). Firm. No/ tr vis por.

SH - Med Gray. Sing. Firm.

Intermixed & Interbedded:
 LS - Lt/ rare to some Med Gray, Tans. tr Tannish Pale Gray. some Sing/ mostly Mot. VF-/ XF-/ Micro-xln. xln por. some subchalky/ marly. argil/shaly. rare fossil frags. partly Firm. No/ tr/ rare Fair vis por.

LS - Lt/ Med Tan. Sing. XF-/ Micro-xln. xln por. some Re-xln. some argil/shaly in part. Firm. No/ tr vis por.

SH - Grays. Sing. tr calc to limy in part. some Firm. Blocky.

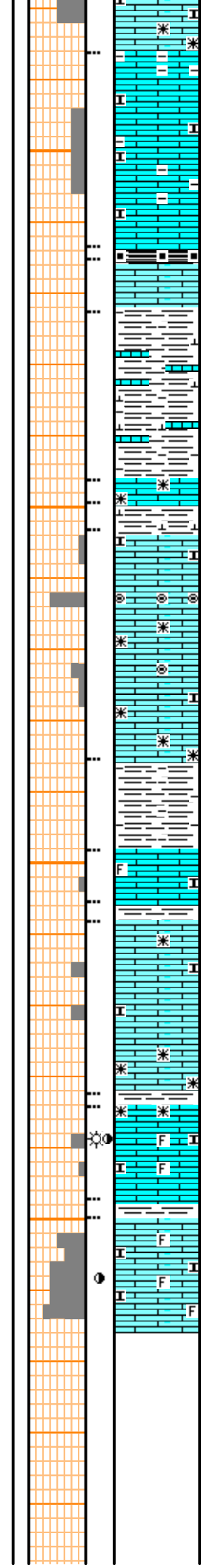
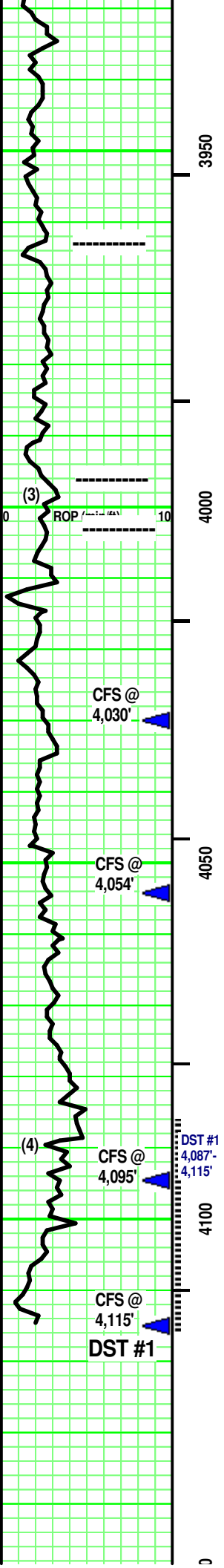
Add: VF Oolites/ Oolcasts. Clear/ Lt Tan, semitransparent Matrix.

LS (2) - Tan. Sing. Micro-xln. xln por. tr Re-xln. Firm. No/ tr vis por.

SH - Black. Sing. Carb. Soft.
 LS - similar to (2) above.

LS - Lt/ Med Gray, Tans. Sing/ Mot. XF-/ Micro-xln. xln por. some Re-xln. subchalky in part. argil/shaly. some interbedded Re-xln. partly Firm. No/ tr/ rare Fair vis por. Dense at top/depth

Vis: 56	Wt: 9.0	LCM: 1#
-- TOPEKA		
3,751' (- 748')		
Vis: 56	Wt: 9.0	LCM: 1#
Vis: 56	Wt: 9.1	LCM: 1#
100 units = 1% Gas		
TG, C1-C5		
Vis: 59	Wt: 9.0	LCM: 1#
Vis: 60	Wt: 9.1	LCM: 1#
Vis: 50	Wt: 9.1	LCM: 1#
Vis: 50	Wt: 9.1	LCM: 1#
Vis: 50	Wt: 9.1	LCM: 1#
Vis: 59	Wt: 9.1	LCM: 1#
Vis: 60	Wt: 9.1	LCM: 1#



LS - Tans/ some Pale Lt Gray, tr Off White. Sing/Mot. Micro-xln. xln & some part por. Subchalky. some fossil frags. some argil. Friable. Tr/ Fair vis por.

Vis: 50
Wt: 9.1
LCM: 1#

SH - Black. Sing. Carb. Soft.
LS - Lt Gray. Sing. Micro-xln. xln por. No/ tr vis por.

HEEBNER SH
3,963' (-960')

Vis: 50
Wt: 9.1
LCM: 1#

SH - Med Gray. Sing. Calc/ LS stringers. . Firm. Massive.

LS (3) - Off White/ Tan. Sing/ tr Mot. Micro-xln. xln & tr Vuggy por. mostly Firm. No/ tr vis por.

Vis: 50
Wt: 9.1
LCM: 1#

LS (3) -
SH - Lt Gray. Sing. calc.

TORONTO
3,996' (-993')

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

LS - Off White/ Tan. Sing/ tr Mot. Micro-xln. xln & tr Vuggy por. [some VF Oolites in part, Off White. Clear/ Pale Tan, semitransparent Matrix. Friable. Tr vis por.] some Re-xln. rare subchalky in part. mostly Firm. No/ tr vis por.

LANSING
4,003' (-1,000')

Vis: 52
Wt: 9.1
LCM: 1#

CFS @ 4,030'

CFS @ 4,030': 50"

SH - Med Gray. Sing. Massive. soft.

4,047' -
Vis: 52 Wt: 9.2
Wtr Loss: 8.8
PV: 13 YP: 17
Gels: 9/20
pH: 10.0 LCM: 2#
Cl (2,200) Ca (80)
Solids: 6.1%

CFS @ 4,054'

CFS @ 4,054': 50"

LS - Lt & Med Tan. Sing/ Mot. XF-/ Micro-xln. xln & tr part por. rare Fossil frags. subchalky in part. partly Friable. No/ tr vis por.

SH - Med Gray. Sing. Massive. soft.

LS - Tans/ tr Off White. Sing/ tr Mot. XF-/ Micro-xln. xln por. tr Re-xln at depth. subchalky in part. partly Friable. No/ tr vis por.

Vis: 50
Wt: 9.1
LCM: 2#

SH - Med/ Dark Gray. Sing. Massive. soft.

LS (4) - fluorescence. On own, tr minute gas bubbles. No free oil. spotted Lt/Med Brown, irregular stain. V Weak cut/ residual. Weak acid/residual

LS (4) - Lt & Med Tan. Sing/ Mot. XF-/ Micro-xln. xln & particle por. tr Re-xln. rare subchalky in part. Firm. No/ tr vis por. No odor. Spotted high yellow

HW: 6u/ 3u (Bk)

CFS @ 4,095'

CFS @ 4,095': 50"

SH - Lt Gray. Sing. calc. firm.

LS - Tan/ Tannish Off White. Sing. Micro-xln. Chalky. fossil frags in part. Friable. No/ tr vis por. ? odor. Spotted, dull yellow fluorescence. No free oil or gas. Spotted, irregular Med Brown stain. No/ V Weak pos cut. No/ V Weak pos acid/ residual. Transparent Oil blebs on wash water

CFS @ 4,115'

CFS @ 4,115': 50" & DST #1

DST #1

S/T: 15 stands pulling tite. 16th is tite & hanging. Jeted/added Mud. Cont'd T/O until free.

CHC: 60"
Work Kelly (15") slowly. No shake. Ck sample box for Volume/Type of fill. Hole Dev: deg @ 4,115'. Board: Strap:

Covey

The Well Watchers

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

Well Name: SHEETZ #1
Location: Section 16 - Township 12 South - Range 32 West
Licence Number: 15-109-20,974. 0000 Region: Logan County, KS.
Spud Date: 4 February 2011 Drilling Completed:
Surface Coordinates: 1,382' FSL & 1,773' FWL
(Approximately SE SW NE SW)

Bottom Hole
Coordinates:
Ground Elevation (ft): 2,995' K.B. Elevation (ft): 3,003'
Logged Interval (ft): 3,350' To: Total Depth (ft):
Formation: Stotler -----> Miss
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

2011

DAILY DRILLING STATUS -- FEBRUARY

2011

	12-1/4" Hole	7-7/8" Hole	7-7/8" Hole
4 Feb ---	Spud @ 6:30pm. Drill to 272'.	5 Feb --- WOC. 6:30am @ 272'.	12 Feb --- Resumed Drilling @ 12:55am.
5 ---	Run 8-5/8" casing (23#) Set casing @ 269'. Cemented w/ 200 sx Class A (2% Gel + 3% CC). [Consolidated] Cement did circulate. Plug down @ 2:45am. WOC.	Under surface casing @ 11:30am. 6 --- 6:30am @ 1,935'. 7 --- 6:30am @ 2,760'. 8 --- Displace Mud @ 3,339'. 6:30am @ 3,445'. 9 --- 6:30am @ 4,030'. Start & 10 --- 6:30am @ 4,115'. Finish DST #1: Lansing (4,087' - 4,115'). Resumed Drilling @ 3:30pm.	6:30am @ 4,360'. 13 --- Start & 6:30am @ 4,584'. Finish DST # 3: 'Johnson' Zone (4,510' - 4,583'). 14 ---
		11 --- 6:30am @ 4,225'. DST #2: Lansing (4,143' - 4,256').	

KB: 3,003'

FORMATION TOPS

GL: 2,995'

Formation	Rotary Sample Depth (Datum)	E-log Depth (Datum)
AnHydrite	2,517' (+486') *	
B / AnHydrite	2,540' (+463') *	
Stotler	3,620' (-617')	
Topeka	3,851' (-748')	
Heebner Shale	3,963' (-960')	
Toronto	3,996' (-993')	
Lansing	4,003' (-1,000')	
Muncie Creek SH	4,153' (-1,150')	
Stark SH	4,234' (-1,231')	
B / KC	4,301' (-1,298')	
Pawnee LS	4,442' (-1,439')	
Ft. Scott	4,492' (-1,486')	
Cherokee Sh		
'Johnson' Zone		
Morrow Shale		
Miss (Erosional)		

* Contractor

RTD: LTD: ATD: E-log is to rotary sample depth, uphole. E-log is to rotary sample depth, mid- & down hole. Loggers: Schlumberger Elk City, Oklahoma

DST # 1 - LANSING

Rotary Depth: 4,087' - 4,115'
 Logger's Depth: Recovery: 715' Gassy Muddy Wtr (2%G,18%M,80%W)
 Total Fluid: 715'
 IFP: 12# - 135#/30" IF: BOB in 11 minutes.
 ISIP: 1,175# / 45" ISI: No Blow Back.
 FFP: 141# - 335# / 60" FF: BOB in 18 minutes.
 FSIP: 1,166# / 90" FSI: No Blow Back.
 129 deg F
 MH: 1,939# - 1,928# Diamond Testing
 Hoisington, KS.
 Recovery Water: (40,000 ppm)
 System Water: (2,200 ppm)
 Reported Rw = 0.12 ohms @ 80 deg F
 Recovery Water - Mud Engineer: (42,000 ppm)
 Sampler: Wtr w/ OIL spots

DST # 2 - LANSING

Rotary Depth: 4,143' - 4,256'
 Logger's Depth: Recovery: 140' GAS in Pipe
 171' Clean OIL (41.2 API @ 60 deg F)
 378' Gassy Oily Muddy Wtr (10%G,11%O,19%W,60%M)
 315' Muddy Water (17%M,83%W - Oil spots)
 Total Fluid: 864'
 IFP: 15# - 155#/30" IF: BOB in 7 minutes.
 ISIP: 1,276# / 45" ISI: 1-1/4 inch Blow Back.
 FFP: 165# - 379# / 60" FF: BOB in 8 minutes.
 FSIP: 1,260# / 90" FSI: 1-1/2 inch Blow Back.
 117 deg F
 MH: 1,967# - 1,958# Diamond Testing
 Hoisington, KS
 Recovery Water: (48,000 ppm)
 System Water: (2,900 ppm)
 Reported Rw = 0.10 ohms @ 79 deg F
 Recovery Water - Mud Engineer: (ppm)
 Sampler: 4% OIL + 96% Water

HOLE DEVIATION (272' - ') & STRAP

DEPTH / TVD	--- INCLINATION	AZIMUTH	NORTH	SOUTH	EAST	WEST	DOGLEG deg/100'
272' /	--- 0.75 (Surface)						
1,291' /	--- 1.00						
2,234' /	--- 1.00						
3,110' /	--- 1.00						
4,115' /	--- 1.50 (DST #1)						
4,583' /	--- (DST #3)						

STRAP ON DST # 1

Board: 4,141.98'

Strap: 4,141.92'

Diff: 0.06'

CONTRACTOR

VAL Energy --- Rig #4

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

Rig #4 - (620) 617-2793

Larry Hinderliter - (620) 804-0097

Pump: National K-500A
6" x 15" @ 58 SPM.
1,000 PSI @ Standpipe.

Uphole Hole:
WOB 35M @ 80 RPM.

After Mudup / Main Hole:
WOB 40M @ 70 RPM.

Drill Collars: 6-1/8" x 2.50" --- 469'. (83.5#/ft)
Dry Collar Weight: 39,162#
(@ 9.5 ppg / Buoyancy Factor 0.8545)
Bouyancy Collar Weight: 33,464#
Design Factor: 15%, therefore:
available WOB is 28,444#
Drill Pipe: 4-1/2"XH. (16#/ft - used)

BIT RECORD

DATE	SIZE	TYPE	JET SIZE	DEPTH IN / OUT	CUM. FT.	HOURS	ROP
4 Feb 2011	12-1/4"	REED RR	3 / 15's	0' / 272'	272'	2.50	108.8
5 Feb 2001	7-7/8"	JZ QX-21	13 - 14 - 13	272' /			

ROCK TYPES

POROSITY

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

LITHOLOGY

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Granite wash
- Congl
- Dol Imst
- Silty dol

- Calc dol
- Dol 2
- Dol
- Gyp
- Igne
- Lmst 2
- Lmst
- Meta
- Mrst
- Salt
- Shale 3
- Shale 3
- Shale
- Shcol
- Shgy
- Sltst
- Ss
- Till
- Ss 2

MINERAL

- Mica
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl

MINX

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STRINGER

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SHOW

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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
- 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

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

- #### STRINGER
- Calc dol

OTHER SYMBOLS

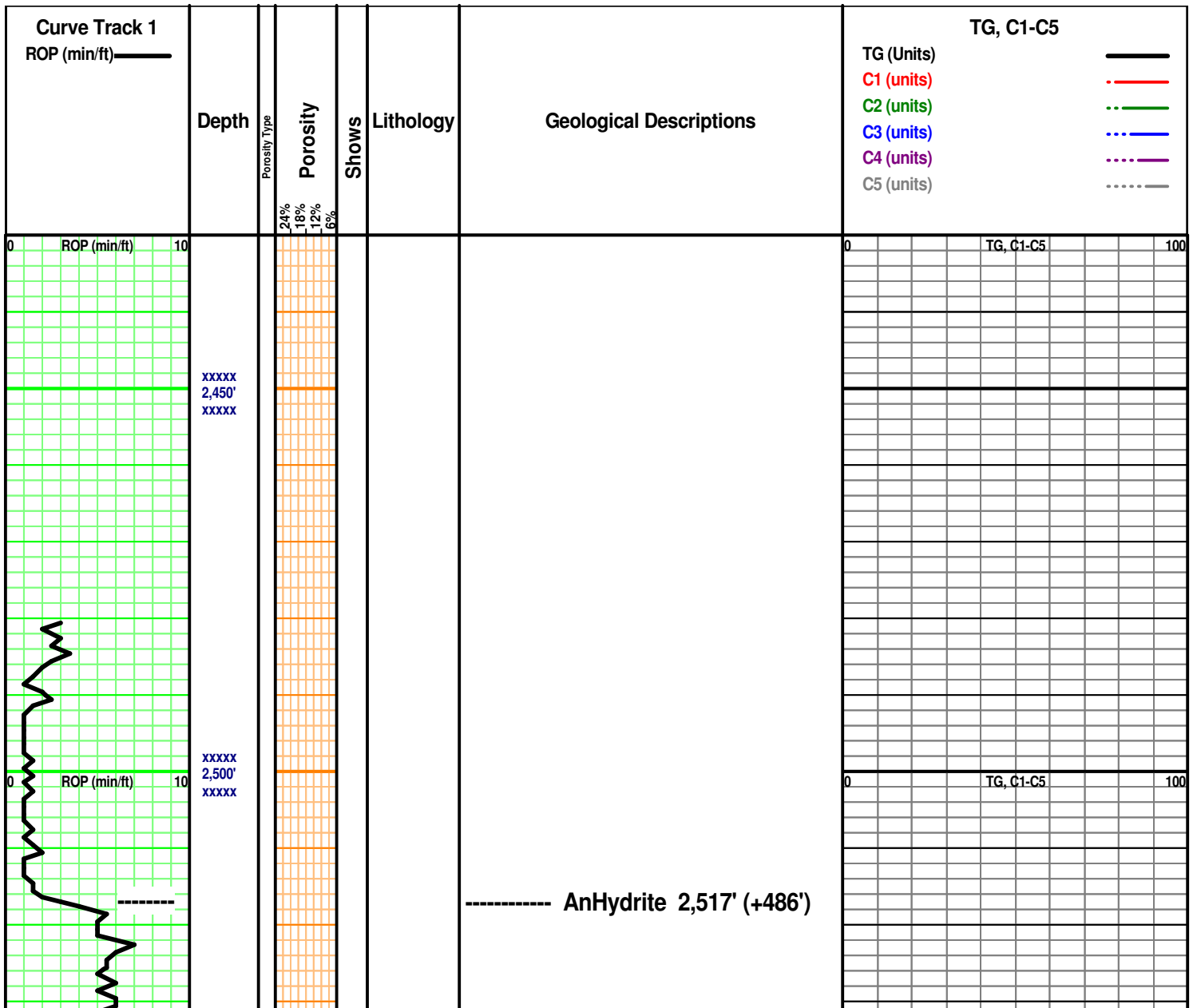
ACTIVITY

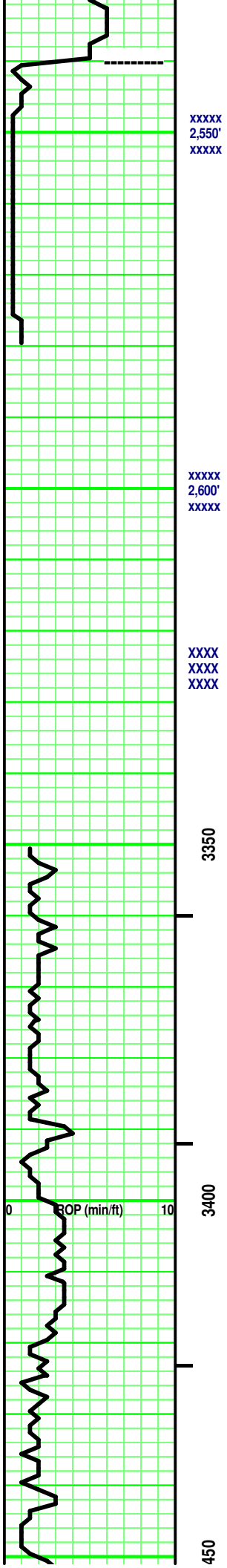
- Lost circluation
- Circulate for same

- Circulate for same
- Rtd
- Trip

- Connection
- Rft

- Sidewall





xxxxx
2,550'
xxxxx

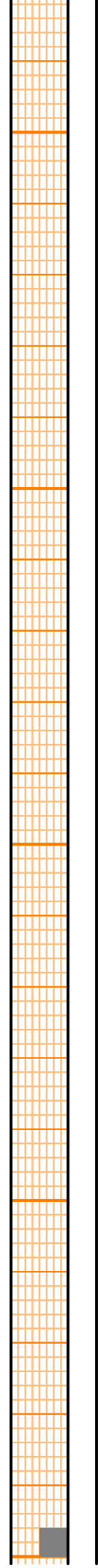
xxxxx
2,600'
xxxxx

xxxx
xxxx
xxxx

3350

3400

450



----- B / AnHydrite 2,540' (+463')

DISPLACE MUD @ 3,339'

Vis: 54
Wt: 8.6
LCM: 2#

Vis: 54
Wt: 8.7
LCM: 2#

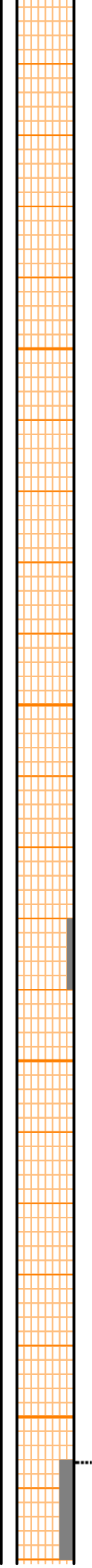
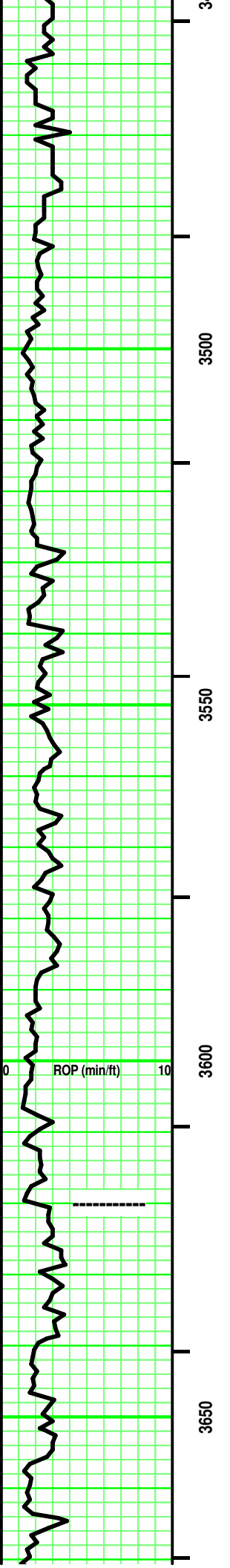
100 units = 1% Gas

0 TG, C1-C5 100

Vis: 54
Wt: 89.7
LCM: 2#

Dry Wt of Collars: 39,162#
[469' x 83.5#/ft = 39,162#]
Drill Collars: 6-1/8" x 2.5"
Buoyancy Wt of Collars: 33,973#
[39,162# x .8675 (8.7ppg) = 33,973#]
Available WOB: 28,877#
[33,973# x .85 = 28,877#]

Vis: 54
Wt: 8.7
LCM: 2#



Interbedded SH & LS
 SH - Lt/ Med Gray. tr Tannish Gray to Brownish Gray. some limy streaks. some calc in part. rare fossil frag. soft.
 LS - Tan/ tr to some Pale to Lt Gray. Sing. XF-/ Micro-xln. xln por. tr argil in part. rare fossil frag. partly Firm. No/ tr vis por.

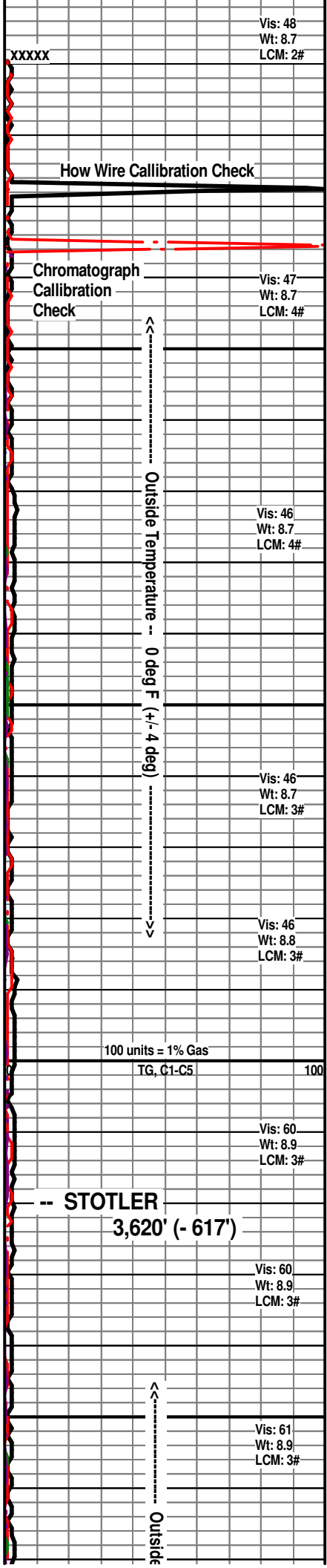
Interbedded SH & LS
 SH - Lt/ Med Gray. tr Tannish Gray to Brownish Gray. some limy streaks. some calc in part. rare fossil frag. soft.
 LS - Tan/ tr to some Pale to Lt Gray. Sing. XF-/ Micro-xln. xln por. tr subchalky in part. tr argil in part. rare fossil frag. partly Firm. No/ tr vis por.

LS (1) - Tans/ tr Off White. some Lt Gray in part. Sing/ tr Mot. tr VF/ mostly XF-xln & Micro-xln. xln por. tr Re-xln. some interbedded argil/shale (Grays). mostly Firm. No/ tr vis por.

SH - Med Gray. Sing. soft. tr blocky.

LS - similiar to (1) above.

Interbedded SH & LS
 SH - Lt/ Med Gray. tr Tannish Gray. some limy streaks. some calc in part. soft.
 LS - Tans / tr Pale to Lt Gray. Sing. XF-/ Micro-xln.



Vis: 48
 Wt: 8.7
 LCM: 2#

How Wire Callibration Check

Chromatograph Callibration Check
 Vis: 47
 Wt: 8.7
 LCM: 4#

Outside Temperature -- 0 deg F (+/- 4 deg)

Vis: 46
 Wt: 8.7
 LCM: 4#

Vis: 46
 Wt: 8.7
 LCM: 3#

Vis: 46
 Wt: 8.8
 LCM: 3#

100 units = 1% Gas
 TG, C1-C5

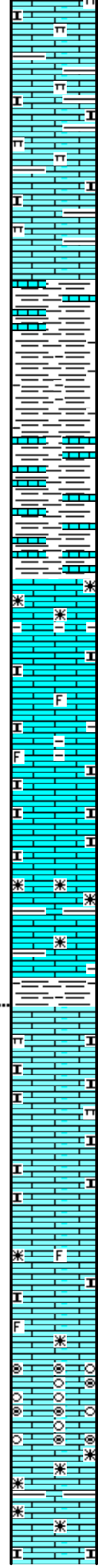
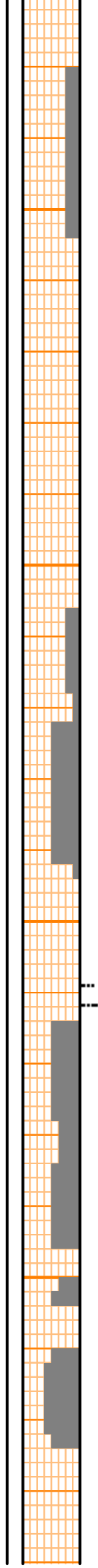
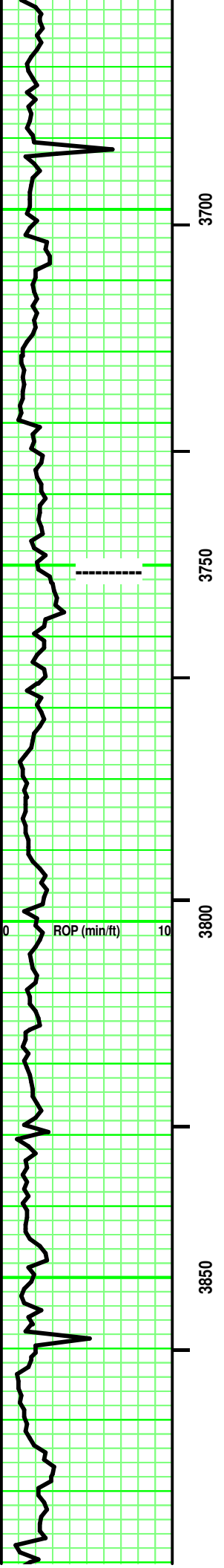
Vis: 60
 Wt: 8.9
 LCM: 3#

STOTLER
 3,620' (- 617')

Vis: 60
 Wt: 8.9
 LCM: 3#

Vis: 61
 Wt: 8.9
 LCM: 3#

Outside



xln por. rare Re-xln. tr argil in part. subchalky in part. tr marly in part. No/ tr vis por.

SH - Lt/ Med Gray. Sing. highly limy (Tannish Gray) to LS stringers (Tan, Micro-xln).

LS - Grays/ Tans. Sing/ somt to mostly Mot. XF-/ mostly Micro-xln. xln por. some subchalky. tr fossil frags. some intermixed/ interbedded argil or shale (Med/Dark Gray). Firm. No/ tr vis por.

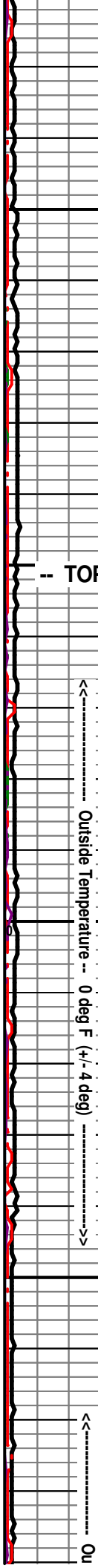
SH - Med Gray. Sing. Firm.

Intermixed & Interbedded:
 LS - Lt/ rare to some Med Gray, Tans. tr Tannish Pale Gray. some Sing/ mostly Mot. VF-/ XF-/ Micro-xln. xln por. some subchalky/ marly. argil/shaly. rare fossil frags. partly Firm. No/ tr/ rare Fair vis por.

LS - Lt/ Med Tan. Sing. XF-/ Micro-xln. xln por. some Re-xln. some argil/shaly in part. Firm. No/ tr vis por.

SH - Grays. Sing. tr calc to limy in part. some Firm. Blocky.

Add: VF Oolites/ Oolcasts. Clear/ Lt Tan, semitransparent Matrix.



Temperature -- 0 deg F (+/- 4 deg)

Hydromatic Froze

Vis: 63
Wt: 8.9
LCM: 3#

Vis: 56
Wt: 9.0
LCM: 1#

Vis: 56
Wt: 9.0
LCM: 1#

--- TOPEKA ---
3,751' (- 748')

Vis: 56
Wt: 9.0
LCM: 1#

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

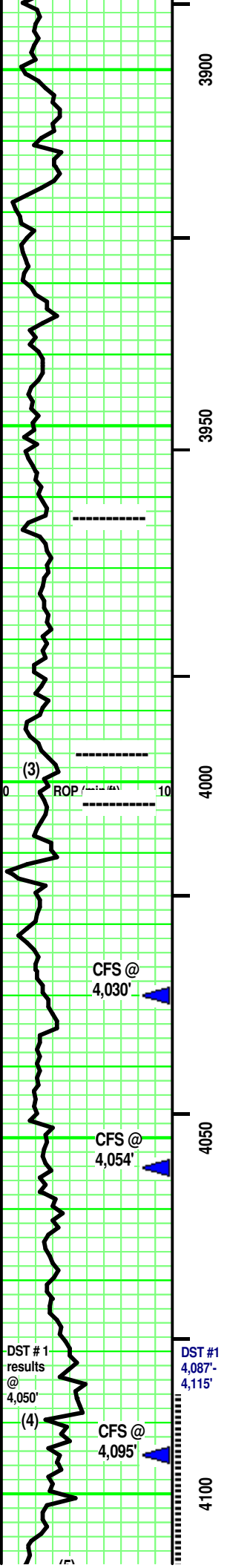
Vis: 56
Wt: 9.1
LCM: 1#

Vis: 59
Wt: 9.0
LCM: 1#

Vis: 60
Wt: 9.1
LCM: 1#

Vis: 50
Wt: 9.1
LCM: 1#

Vis: 50
Wt: 9.1
LCM: 1#



LS (2) - Tan. Sing. Micro-xln. xln por. tr Re-xln. Firm. No/ tr vis por.

SH - Black. Sing. Carb. Soft.
LS - similar to (2) above.

LS - Lt/ Med Gray, Tans. Sing/ Mot. XF-/ Micro-xln. xln por. some Re-xln. subchalky in part. argil/shaly. some interbedded Re-xln. partly Firm. No/ tr/ rare Fair vis por. Dense at top/depth

LS - Tans/ some Pale Lt Gray, tr Off White. Sing/Mot. Micro-xln. xln & some part por. Subchalky. some fossil frags. some argil. Friable. Tr/ Fair vis por.

SH - Black. Sing. Carb. Soft.
LS - Lt Gray. Sing. Micro-xln. xln por. No/ tr vis por.

SH - Med Gray. Sing. Calc/ LS stringers. . Firm. Massive.

LS (3) - SH - Lt Gray. Sing. calc.

LS - Off White/ Tan. Sing/ tr Mot. Micro-xln. xln & tr Vuggy por. [some VF Oolites in part, Off White. Clear/ Pale Tan, semitransparent Matrix. Friable. Tr vis por.] some Re-xln. rare subchalky in part. mostly Firm. No/ tr vis por.

SH - Med Gray. Sing. Massive. soft.

LS - Lt & Med Tan. Sing/ Mot. XF-/ Micro-xln. xln & tr part por. rare Fossil frags. subchalky in part. partly Friable. No/ tr vis por.

SH - Med Gray. Sing. Massive. soft.

LS - Tans/ tr Off White. Sing/ tr Mot. XF-/ Micro-xln. xln por. tr Re-xln at depth. subchalky in part. partly Friable. No/ tr vis por.

SH - Med/ Dark Gray. Sing. Massive. soft.

LS (4) - Lt & Med Tan. Sing/ Mot. XF-/ Micro-xln. xln & particle por. tr Re-xln. rare subchalky in part. Firm. No/ tr vis por. No odor. Spotted high yellow

SH - Lt Gray. Sing. calc. firm.

LS (5) - Tan/ Tannish Off White. Sing. Micro-xln. Chalky. fossil frags in part. Friable. No/ tr vis por. ? odor. Spotted, dull yellow fluorescence. No free oil or gas. Spotted, irregular Med Brown stain. No/ V Weak pos cut. No/ V Weak pos acid/ residual.

Side Temperature -- 0 deg F (+/- 4 deg)

Vis: 50	Wt: 9.1	LCM: 1#
Vis: 59	Wt: 9.1	LCM: 1#
Vis: 60	Wt: 9.1	LCM: 1#
Vis: 50	Wt: 9.1	LCM: 1#

-- HEEBNER SH
3,963' (-960')

Vis: 50	Wt: 9.1	LCM: 1#
---------	---------	---------

LS (3) - Off White/ Tan. Sing/ tr Mot. Micro-xln. xln & tr Vuggy por. mostly Firm. No/ tr vis por.

Vis: 50	Wt: 9.1	LCM: 1#
---------	---------	---------

-- TORONTO
3,996' (-993')

TG, C1-C5 100

100 units = 1% Gas

LANSING
4,003' (-1,000')

Vis: 52	Wt: 9.1	LCM: 1#
Vis: 52	LCM: 9.1	LCM: 1#

←----- CFS @ 4,030': 50"

4,047' -	Vis: 52	Wt: 9.2
DST #1 LANSING	Wtr Loss: 8.8	
(4,087"-4,115')	PV: 13	YP: 17
	Gels: 9/20	
Rec:	pH: 10.0	LCM: 2#
715' Gassy Muddy Wtr	Cl (2,200)	Ca (80)
(2%G,18%M,80%W)	Solids: 6.1%	

←----- CFS @ 4,054': 50"

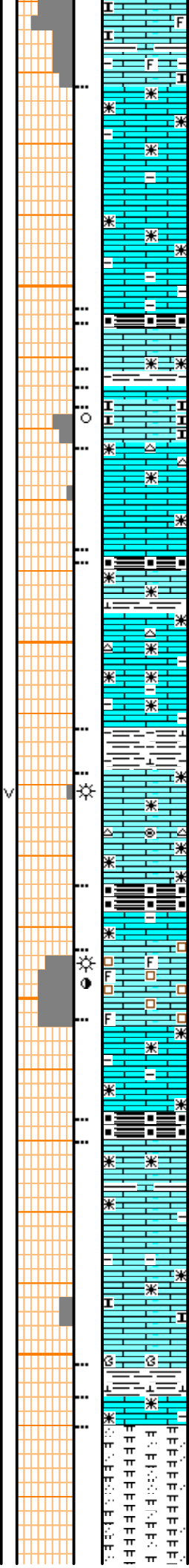
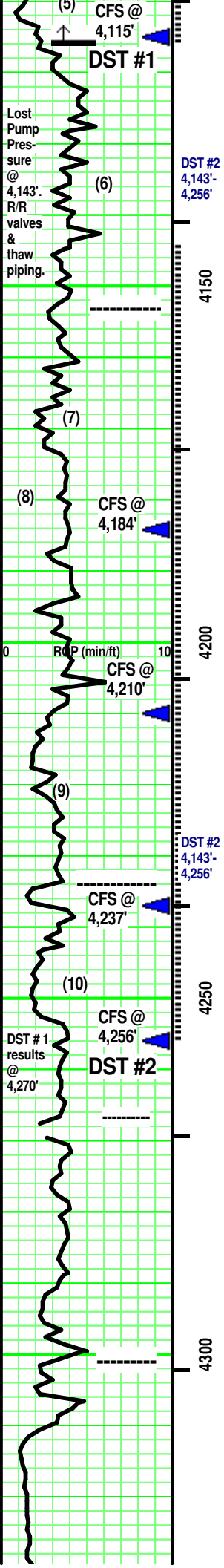
IFP: 12# - 135#/30"	Vis: 50
ISIP: 1,175# / 45"	Wt: 9.1
FFP: 141# - 335# / 60"	LCM: 2#
FSIP: 1,166# / 90"	
	129 deg F
MH: 1,939# - 1,928#	

LS (4) - fluorescence. On own, tr minute gas bubbles. No free oil. spotted Lt/Med Brown, irregular stain. V Weak cut/ residual. Weak acid/residual

HW: 6u/ 3u (Bk)

←----- CFS @ 4,095': 50"

After DST #1	DST #1 @ 4,115' -	Vis: 54	Wt: 9.1
HW: 5u from	Wtr Loss: 7.2	PV: 14	YP: 18
	Gels: 11/19	pH: 10.5	LCM: 2#
	Cl (2,500)		
	Cl (tr) Solids: 6.3%		



LS (6) - Lt & Med Tan. some Off White Sing/ tr Mot. tr XF-/ Micro-xln. some Crypto-xln. xln and rare, intermixed pinpoint por. Re-xln. some argil with depth. Firm. mostly No/ tr vis por.

----- MUNCIE CREEK 4,153' (-1,150')
 SH - Black. Sing. Carb. Soft.
 LS - Similar to (6) above. adding: Lt & Med Gray. Sing.

SH - Lt/ Med. Gray. Sing. tr calc. Firm.
 LS - similar to (6) above. minute, spotted Med ----->
 LS (7) - Tan/ White. Sing. Micro-xln. xln por. Subchalky to Chalk. Friable. No/ tr vis por. ----->

LS (8) - Tan/ Off White/ Grayish Tan, tr Pale Lt Gray with depth. Sing/ tr Mot. XF-/ Micro-xln. xln por. some Re-xln. [few pcs: CHERT - Off White/ Tan. Sing/ Mot. Opaque. some, minute white inclusions. No tripolitic.] Firm. No/ tr vis por.

SH - Black. Sing. Carb. Soft.
 LS - Similar to (8) above. adding: Lt & Med Gray. Sing.

SH - Med Gray. Sing. tr calc.
 LS - Tan - Grayish Tan/ Lt Gray with depth. Sing/ tr Mot. Micro-xln. xln por. some Re-xln. [few pcs: CHERT - Off White/ Tan. Sing/ Mot. Opaque. some, minute white inclusions. No tripolitic.] Firm. No/ tr vis por.

SH - Med Gray, tr Tannish Gray. Sing. some calc. tr soft. tr ductile.
 1 pc LS (9) - Lt Gray. Sing. Crypto-xln. tr vuggy por. Firm. tr/some vis por. No odor. Spotted yellow fluorescence. No free oil. some minute gas bubbles in vuggy por. tr oil 'wet' facies. spotted Lt Brown stain. Weak Pos cut/ residual. Weak acid/ residual.
 LS - Tan/ some Off White/ Lt Gray. Sing/ rare Mot. -->

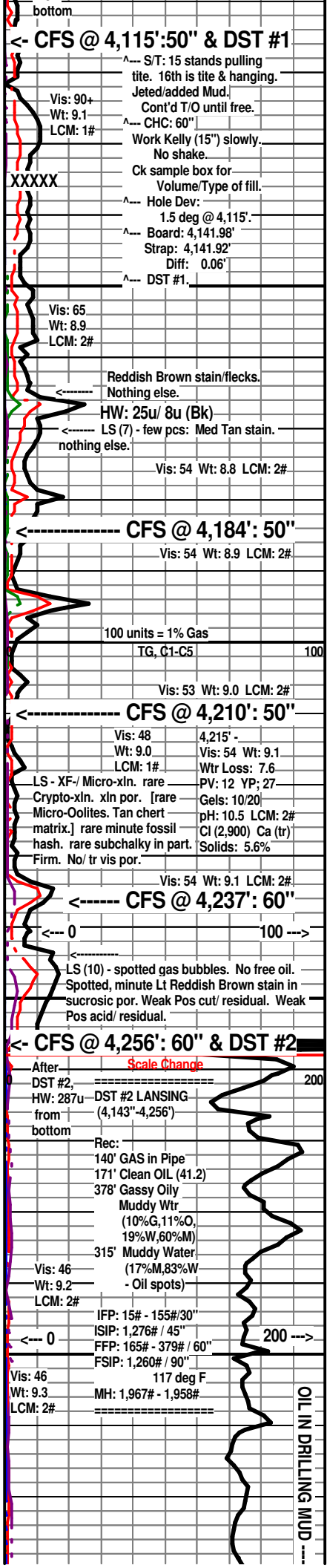
----- STARK SH 4,234' (-1,231')
 SH - Black. Sing. Carb. Soft.
 LS - Tan/ Lt Gray. Sing/ tr Mot. tr XF-/ Micro-xln. xln por. tr Re-xln. tr argil. Firm. No/ tr vis por.

LS (10) - Tan. Sing. VF-xln. xln & sucrosic por. fossil frags & hash. Friable. tr/ Fair vis por. ?/Fair odor. spotted dull yellow fluorescence, A/C, minute, ----->

LS - Tan/ Lt Gray. Sing/ tr Mot. tr XF-/ Micro-xln. xln por. some Re-xln. tr argil. Firm. No/ tr vis por.

----- HUSHPUCKNEY SH 4,267' (-1,264')
 SH - Black. Sing. Carb. Soft.
 LS - Tans/ Grays. Sing/ some Mot. XF-/ Micro-xln. xln por. some Re-xln. [subchalky at depth/ Friable.] tr fossil frags. some argil in part/ interbedded. Firm. No/ tr vis por.

----- B / KC 4,301' (-1,298')
 Interbedded SH, Marl & LS
 SH - Grays / Greenish Gray. Sing. some calc. some marly in part.
 Marl - Off White/ Reddish hue Off White. silt sized, SA qtz grains floating in marl matrix.
 LS - Tans/ Grays. Sing/ some Mot. XF-/ Micro-xln. xln por. some Re-xln. tr fossil frags. some argil in part/ interbedded. Firm. No/ tr vis por.



<- CFS @ 4,115':50' & DST #1
 S/T: 15 stands pulling tite. 16th is tite & hanging. Jeted/added Mud. Cont'd T/O until free. CHC: 60" Work Kelly (15") slowly. No shake. Ck sample box for Volume/Type of fill. Hole Dev: 1.5 deg @ 4,115'. Board: 4,141.98' Strap: 4,141.92' Diff: 0.06' DST #1.

Vis: 90+ Wt: 9.1 LCM: 1#
 Vis: 65 Wt: 8.9 LCM: 2#
 Reddish Brown stain/flecks. Nothing else.
 HW: 25u/ 8u (Bk)
 LS (7) - few pcs: Med Tan stain. nothing else.
 Vis: 54 Wt: 8.8 LCM: 2#

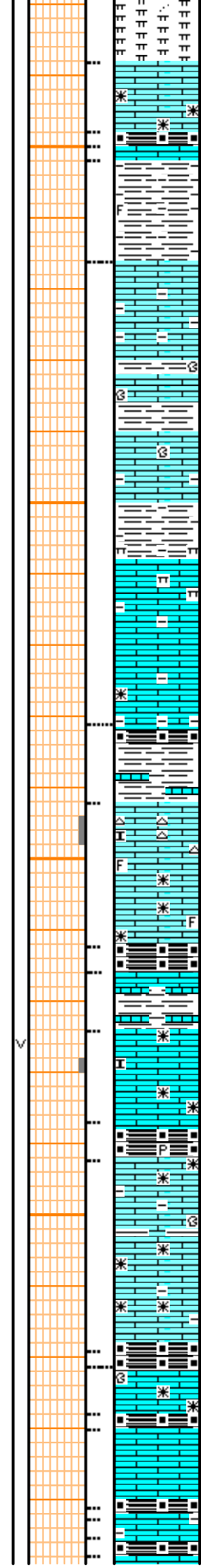
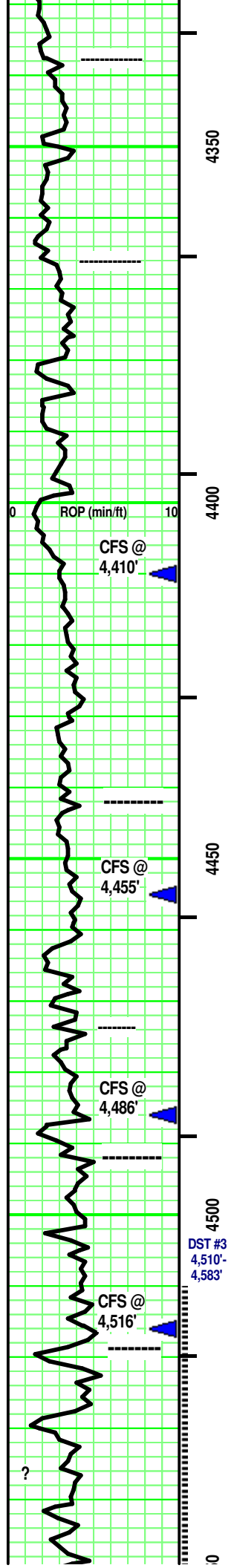
<- CFS @ 4,184': 50"
 Vis: 54 Wt: 8.9 LCM: 2#
 100 units = 1% Gas
 TG, C1-C5 100
 Vis: 53 Wt: 9.0 LCM: 2#

<- CFS @ 4,210': 50"
 Vis: 48 Wt: 9.0 LCM: 1#
 4,215' -
 Wt: 54 Wt: 9.1 Wtr Loss: 7.6 PV: 12 YP; 27 Gels: 10/20 pH: 10.5 LCM: 2# Cl (2,900) Ca (tr) Solids: 5.6%
 LS - XF-/ Micro-xln. rare Crypto-xln. xln por. [rare Micro-Oolites. Tan chert matrix.] rare minute fossil hash. rare subchalky in part. Firm. No/ tr vis por.
 Vis: 54 Wt: 9.1 LCM: 2#

<- CFS @ 4,237': 60"
 Vis: 46 Wt: 9.2 LCM: 2#
 LS (10) - spotted gas bubbles. No free oil. Spotted, minute Lt Reddish Brown stain in sucrosic por. Weak Pos cut/ residual. Weak Pos acid/ residual.

<- CFS @ 4,256': 60" & DST #2
 After Scale Change
 DST #2, HW: 287u DST #2 LANSING from (4,143'-4,256') bottom
 Rec: 140' GAS in Pipe 171' Clean OIL (41.2) 378' Gassy Oily Muddy Wtr (10%G,11%O, 19%W,60%M) 315' Muddy Water (17%M,83%W - Oil spots)
 Vis: 46 Wt: 9.2 LCM: 2#
 IFP: 15# - 155#/30" ISIP: 1,276# / 45" FFP: 165# - 379# / 60" FSIP: 1,260# / 90" 117 deg F
 Vis: 46 Wt: 9.3 LCM: 2# MH: 1,967# - 1,958#

OIL IN DRILLING MUD



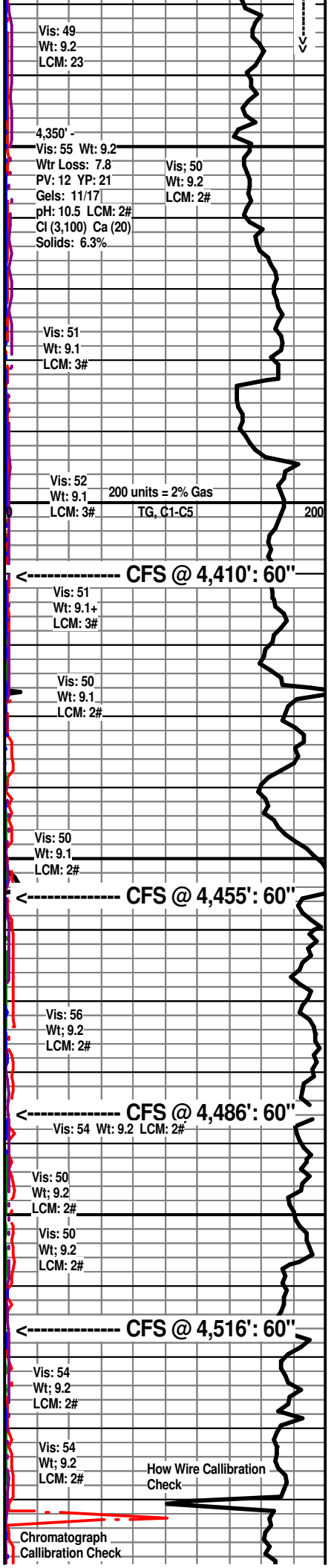
MARMATON 4,338' (-1,335')
 LS (11) - Tans/ tr Off White, Lt Gray. Sing/ some Mot. XF-/ Micro-xln. xln por. some Re-xln. tr argil in part. Firm. No/ tr vis por.
 SH - Black. Sing. Carb. Soft.
 LS - similar to 11 above.
 SH - Med Gray, some Tannish Gray. Sing. Massive. rare fossil frag.

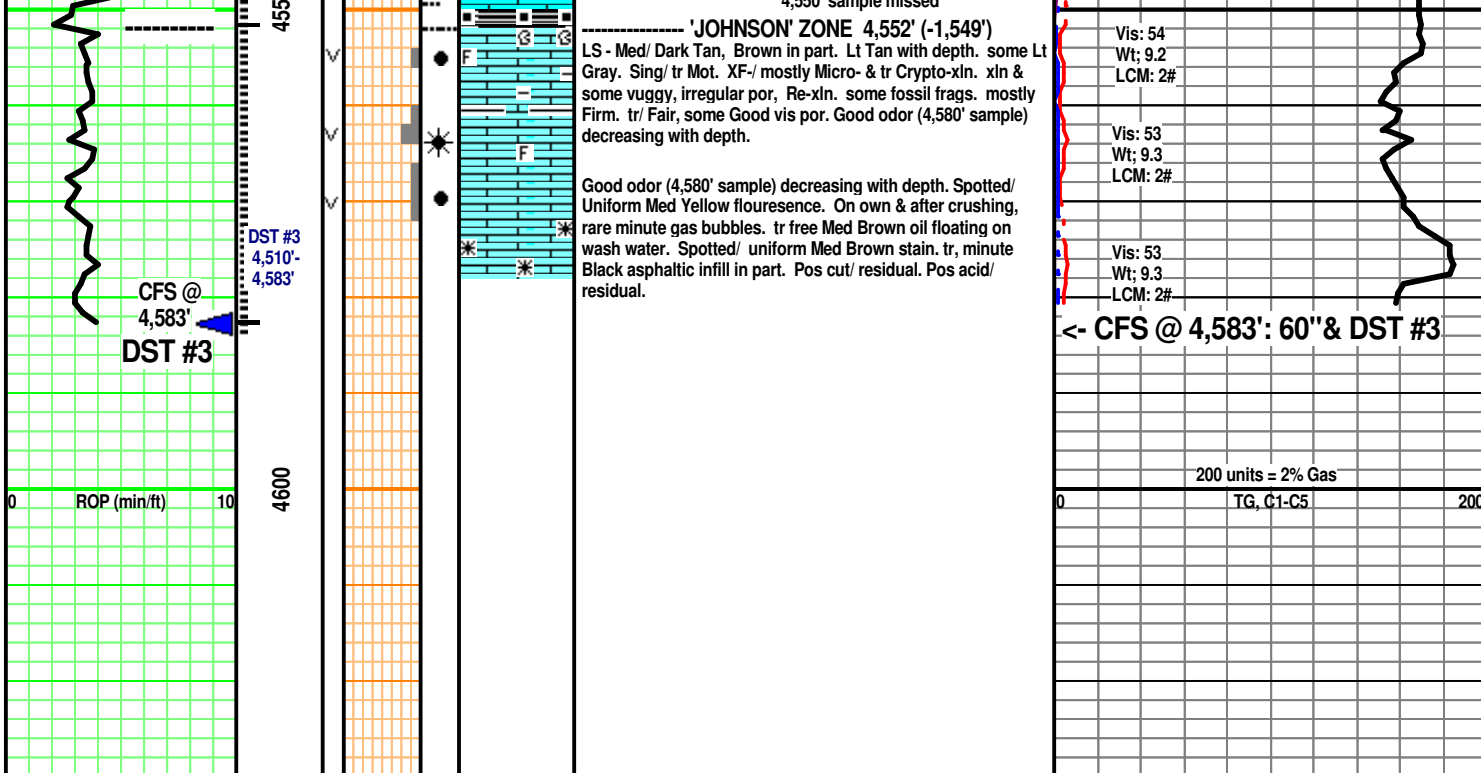
ALTAMONT 4,366' (-1,363')
 LS - Tan/ Lt Gray/ some Yellow, Purple. some Sing/ Mot. tr XF-/ Micro-xln. xln por. some Re-xln. tr argil. some interbedded sh (Lt/Med Gray, Reddish Brown). mostly Firm. No/ tr vis por.
 Add: Bluish Gray. Sing. soft. tr marly.
 LS - Tans/ some Grays. Sing/ some Mot. tr XF-/ mostly Micro-xln. xln por. some Re-xln. tr argil/shaly in part. subchalky (marly). Firm at top. No/ tr vis por.
 SH - Black. Sing. carb. tr fissile.
 SH - Med Gray. Sing. highly limy/ LS streaks.

PAWNEE 4,442' (-1,439')
 LS - Tans/ tr Lt Gray. Sing/ Mot. XF-/ some Micro-xln. xln & part por. tr Re-xln. [some Chert - Silvery White/ Off White/ Grayish Tan. Mot. misc minute Off White inclusions. No tripolitic/ 'fresh'.] mostly Firm. rare fossil frag. tr ls 'rubble'. tr argil. No/ tr vis por.
 SH - Black. Sing. carb. tr fissile.
 LS - similar to 12 below.
 SH - Grays/ Bluish Gray, Tannish Gray. Sing/ tr Mot. some highly limy/ LS streaks.
 LS (12) - Tans/ some Off White. Sing. XF-xln at top/ Micro-xln at depth. xln por. tr Re-xln. subchalky in part. Friable at break. Break has tr/ Fair vis por. mostly No/ tr vis por.
 SH - Black. Sing. carb. tr pyritic soft

FT. SCOTT 4,492' (-1,486')
 LS - Tan/ Pale Lt Gray/ some Off White. Sing/ tr Mot. XF-/ Micro-xln. xln por. tr Re-xln. tr argil in part. [some LS& Argil frags - Med/ Dark Tan, Dark Gray. VF/ XF. SA.] Firm. No/ tr vis por.

CHEROKEE SH 4,519' (-1,516')
 SH - Black. Sing. carb. soft.
 Interbedded SH & LS
 SH - Black. Sing. carb. soft.
 LS - Tan/ Pale Lt Gray/ rare Off White. Sing/ tr Mot. XF-/ Micro-xln. xln por. tr Re-xln. tr argil in part. [some LS& Argil frags - Med/ Dark Tan, Dark Gray. VF/ XF. SA.] Firm. No/ tr vis por.





Covey

The Well Watchers

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

Well Name: SHEETZ #1
Location: Section 16 - Township 12 South - Range 32 West
Licence Number: 15-109-20,974. 0000 Region: Logan County, KS.
Spud Date: 4 February 2011 Drilling Completed:
Surface Coordinates: 1,382' FSL & 1,773' FWL
(Approximately SE SW NE SW)

Bottom Hole
Coordinates:
Ground Elevation (ft): 2,995' K.B. Elevation (ft): 3,003'
Logged Interval (ft): 3,350' To: Total Depth (ft):
Formation: Stotler -----> Miss
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

2011

DAILY DRILLING STATUS -- FEBRUARY

2011

	12-1/4" Hole	7-7/8" Hole	7-7/8" Hole	
4 Feb	--- Spud @ 6:30pm. Drill to 272'.	5 Feb	--- WOC. 6:30am @ 272'.	
5	--- Run 8-5/8" casing (23#) Set casing @ 269'. Cemented w/ 200 sx Class A (2% Gel + 3% CC). [Consolidated] Cement did circulate. Plug down @ 2:45am. WOC.		Under surface casing @ 11:30am.	
		6	--- 6:30am @ 1,935'.	
		7	--- 6:30am @ 2,760'.	
		8	--- Displace Mud @ 3,339'. 6:30am @ 3,445'.	
		9	--- 6:30am @ 4,030'. Start &	
		10	--- 6:30am @ 4,115'. Finish DST #1: Lansing (4,087' - 4,115'). Resumed Drilling @ 3:30pm.	
		11	--- 6:30am @ 4,225'. DST #2: Lansing (4,143' - 4,256').	
			12 Feb	--- Resumed Drilling @ 12:55am. 6:30am @ 4,360'.
			13	---

KB: 3,003'

FORMATION TOPS

GL: 2,995'

Formation	Rotary Sample Depth (Datum)	E-log Depth (Datum)
AnHydrite	2,517' (+486') *	
B / AnHdrite	2,540' (+463') *	
Stotler	3,620' (-617')	
Topeka	3,851' (-748')	
Heebner Shale	3,963' (-960')	
Toronto	3,996' (-993')	
Lansing	4,003' (-1,000')	
Muncie Creek SH	4,153' (-1,150')	
Stark SH	4,234' (-1,231')	
B / KC	4,301' (-1,298')	
Pawnee LS	4,442' (-1,439')	
Ft. Scott		
Cherokee Sh		
'Johnson' Zone		
Morrow Shale		
Miss (Erosional)		

* Contractor

RTD: LTD: ATD: E-log is to rotary sample depth, uphole. E-log is to rotary sample depth, mid- & down hole. Loggers: Schlumberger Elk City, Oklahoma

DST # 1 - LANSING

Rotary Depth: 4,087' - 4,115'
 Logger's Depth: Recovery: 715' Gassy Muddy Wtr (2%G,18%M,80%W)
 Total Fluid: 715'
 IFP: 12# - 135#/30" IF: BOB in 11 minutes.
 ISIP: 1,175# / 45" ISI: No Blow Back.
 FFP: 141# - 335# / 60" FF: BOB in 18 minutes.
 FSIP: 1,166# / 90" FSI: No Blow Back.
 MH: 1,939# - 1,928# 129 deg F
 Diamond Testing
 Hoisington, KS.

Recovery Water: (40,000 ppm)
 System Water: (2,200 ppm)
 Reported Rw = 0.12 ohms @ 80 deg F
 Recovery Water - Mud Engineer: (42,000 ppm)
 Sampler: Wtr w/ OIL spots

DST # 2 - LANSING

Rotary Depth: 4,143' - 4,256'
 Logger's Depth: Recovery: 140' GAS in Pipe
 171' Clean OIL (41.2 API @ 60 deg F)
 378' Gassy Oily Muddy Wtr (10%G,11%O,19%W,60%M)
 315' Muddy Water (17%M,83%W - Oil spots)
 Total Fluid: 864'
 IFP: 15# - 155#/30" IF: BOB in 7 minutes.
 ISIP: 1,276# / 45" ISI: 1-1/4 inch Blow Back.
 FFP: 165# - 379# / 60" FF: BOB in 8 minutes.
 FSIP: 1,260# / 90" FSI: 1-1/2 inch Blow Back.
 MH: 1,967# - 1,958# 117 deg F
 Diamond Testing
 Hoisington, KS

Recovery Water: (48,000 ppm)
 System Water: (2,900 ppm)
 Reported Rw = 0.10 ohms @ 79 deg F
 Recovery Water - Mud Engineer: (ppm)
 Sampler: 4% OIL + 96% Water

HOLE DEVIATION (272' - ') & STRAP

DEPTH / TVD	--- INCLINATION	AZIMUTH	NORTH	SOUTH	EAST	WEST	DOGLEG deg/100'
272' /	--- 0.75 (Surface)						
1,291' /	--- 1.00						
2,234' /	--- 1.00						
3,110' /	--- 1.00						
4,115' /	--- 1.50 (DST #1)						

STRAP ON DST # 1

Board: 4,141.98'

Strap: 4,141.92'

Diff: 0.06'

CONTRACTOR

VAL Energy --- Rig #4

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

Rig #4 - (620) 617-2793

Larry Hinderliter - (620) 804-0097

Pump: National K-500A
 6" x 15" @ 58 SPM.
 1,000 PSI @ Standpipe.

Uphole Hole:
 WOB 35M @ 80 RPM.

After Mudup / Main Hole:
 WOB 40M @ 70 RPM.

Drill Collars: 6-1/8" x 2.50" --- 469'. (83.5#/ft)
 Dry Collar Weight: 39,162#
 (@ 9.5 ppg / Buoyancy Factor 0.8545)
 Bouyancy Collar Weight: 33,464#
 Design Factor: 15%, therefore:
 available WOB is 28,444#
 Drill Pipe: 4-1/2"XH. (16#/ft - used)

BIT RECORD

DATE	SIZE	TYPE	JET SIZE	DEPTH IN / OUT	CUM. FT.	HOURS	ROP
4 Feb 2011	12-1/4"	REED RR	3 / 15's	0' / 272'	272'	2.50	108.8
5 Feb 2001	7-7/8"	JZ QX-21	13 - 14 - 13	272' /			

ROCK TYPES

POROSITY 	LITHOLOGY 		MINERAL 		STRINGER 		
---------------------	----------------------	--	--------------------	--	---------------------	--	--

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
- 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

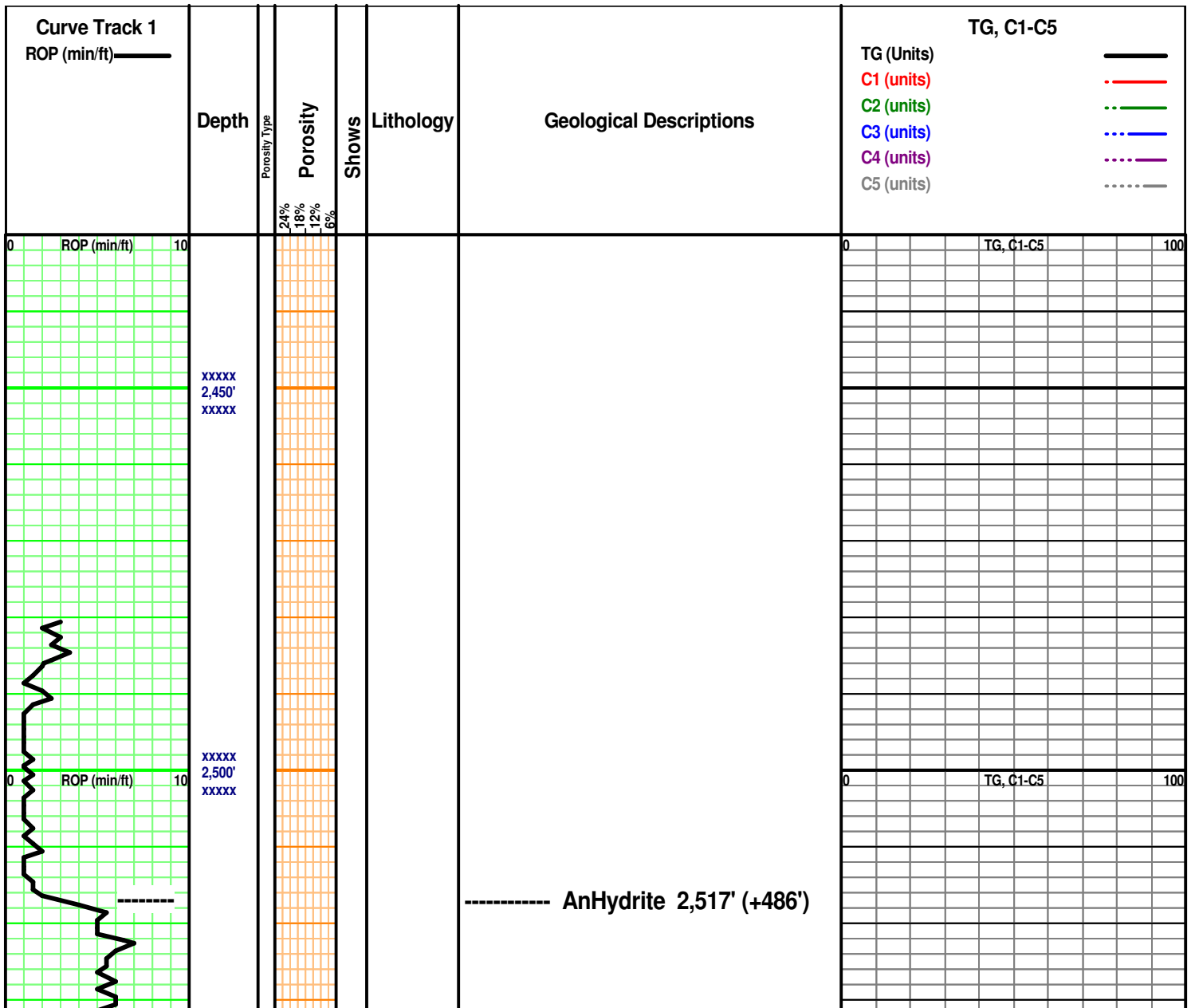
ACTIVITY

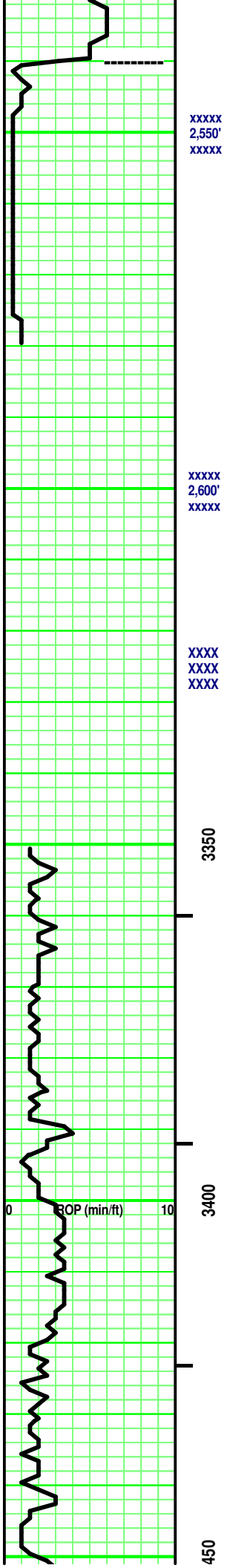
- Lost circluation
- Circulate for same

- Circulate for same
- Rtd
- Trip

- Connection
- Rft

- Sidewall





XXXXX
2,550'
XXXXX

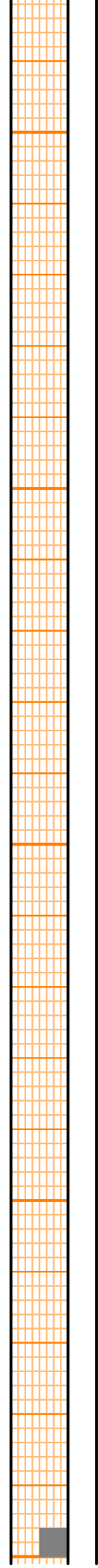
XXXXX
2,600'
XXXXX

XXXX
XXXX
XXXX

3350

3400

450



----- B / AnHydrite 2,540' (+463')

DISPLACE MUD @ 3,339'

Vis: 54
Wt: 8.6
LCM: 2#

Vis: 54
Wt: 8.7
LCM: 2#

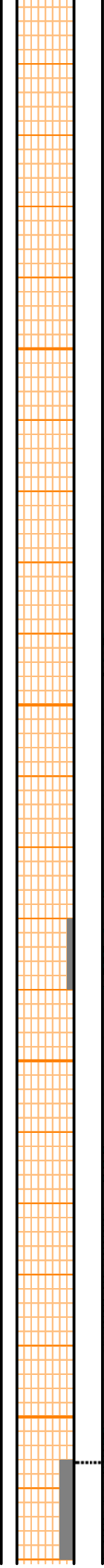
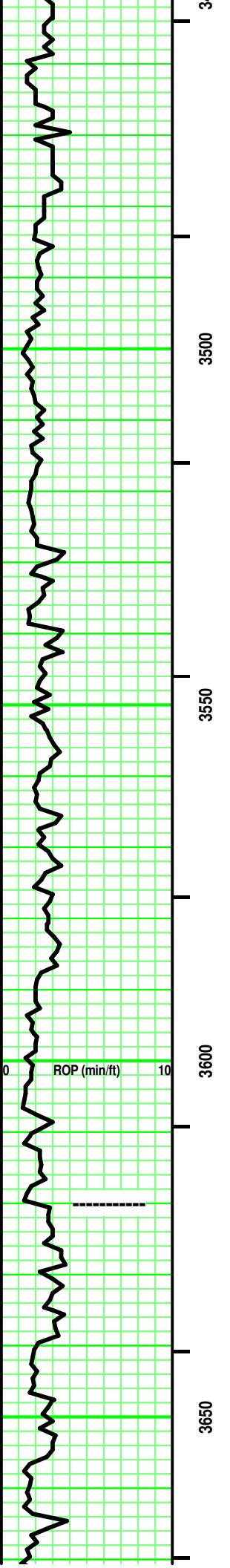
100 units = 1% Gas

TG, C1-C5

Vis: 54
Wt: 89.7
LCM: 2#

Dry Wt of Collars: 39,162#
[469' x 83.5#/ft = 39,162#]
Drill Collars: 6-1/8" x 2.5"
Buoyancy Wt of Collars: 33,973#
[39,162# x .8675 (8.7ppg) = 33,973#]
Available WOB: 28,877#
[33,973# x .85 = 28,877#]

Vis: 54
Wt: 8.7
LCM: 2#



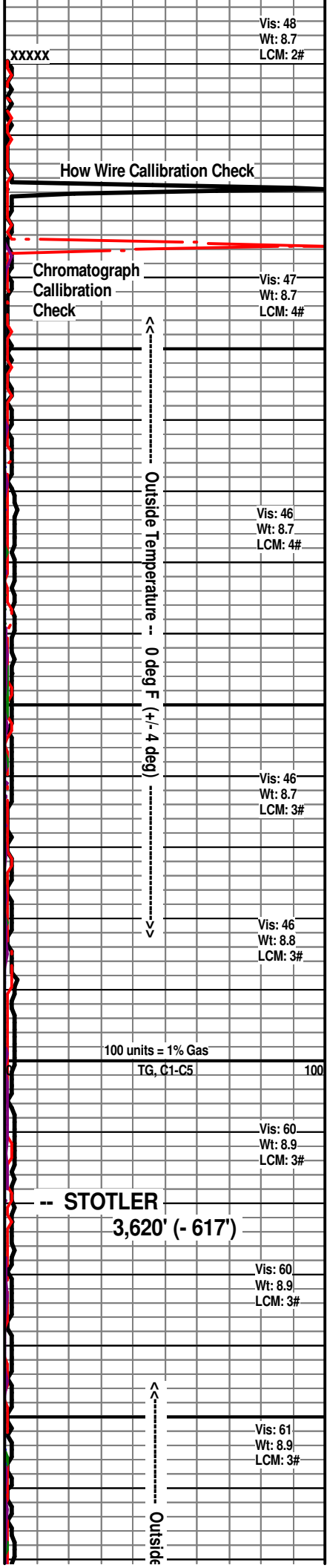
Interbedded SH & LS
 SH - Lt/ Med Gray. tr Tannish Gray to Brownish Gray. some limy streaks. some calc in part. rare fossil frag. soft.
 LS - Tan/ tr to some Pale to Lt Gray. Sing. XF-/ Micro-xln. xln por. tr argil in part. rare fossil frag. partly Firm. No/ tr vis por.

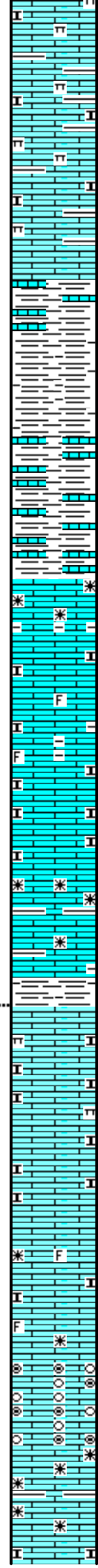
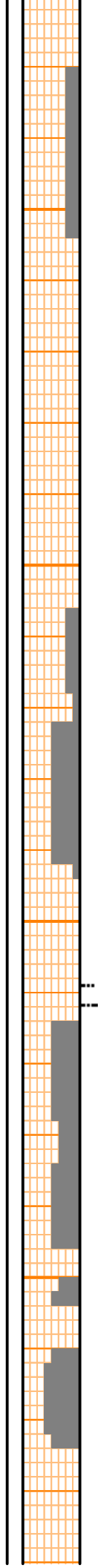
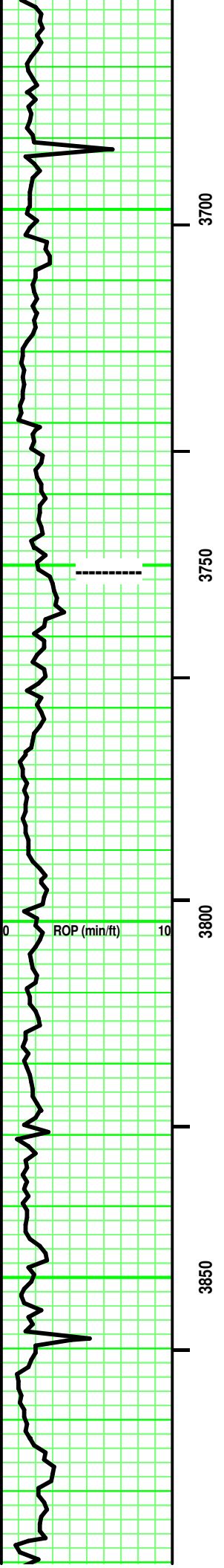
Interbedded SH & LS
 SH - Lt/ Med Gray. tr Tannish Gray to Brownish Gray. some limy streaks. some calc in part. rare fossil frag. soft.
 LS - Tan/ tr to some Pale to Lt Gray. Sing. XF-/ Micro-xln. xln por. tr subchalky in part. tr argil in part. rare fossil frag. partly Firm. No/ tr vis por.

LS (1) - Tans/ tr Off White. some Lt Gray in part. Sing/ tr Mot. tr VF/ mostly XF-xln & Micro-xln. xln por. tr Re-xln. some interbedded argil/shale (Grays). mostly Firm. No/ tr vis por.

SH - Med Gray. Sing. soft. tr blocky.
 LS - similiar to (1) above.

Interbedded SH & LS
 SH - Lt/ Med Gray. tr Tannish Gray. some limy streaks. some calc in part. soft.
 LS - Tans / tr Pale to Lt Gray. Sing. XF-/ Micro-xln.





xln por. rare Re-xln. tr argil in part. subchalky in part. tr marly in part. No/ tr vis por.

SH - Lt/ Med Gray. Sing. highly limy (Tannish Gray) to LS stringers (Tan, Micro-xln).

LS - Grays/ Tans. Sing/ somt to mostly Mot. XF-/ mostly Micro-xln. xln por. some subchalky. tr fossil frags. some intermixed/ interbedded argil or shale (Med/Dark Gray). Firm. No/ tr vis por.

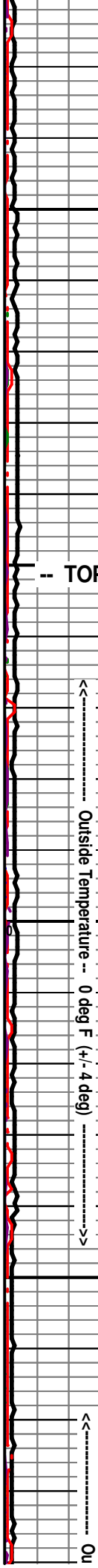
SH - Med Gray. Sing. Firm.

Intermixed & Interbedded:
 LS - Lt/ rare to some Med Gray, Tans. tr Tannish Pale Gray. some Sing/ mostly Mot. VF-/ XF-/ Micro-xln. xln por. some subchalky/ marly. argil/shaly. rare fossil frags. partly Firm. No/ tr/ rare Fair vis por.

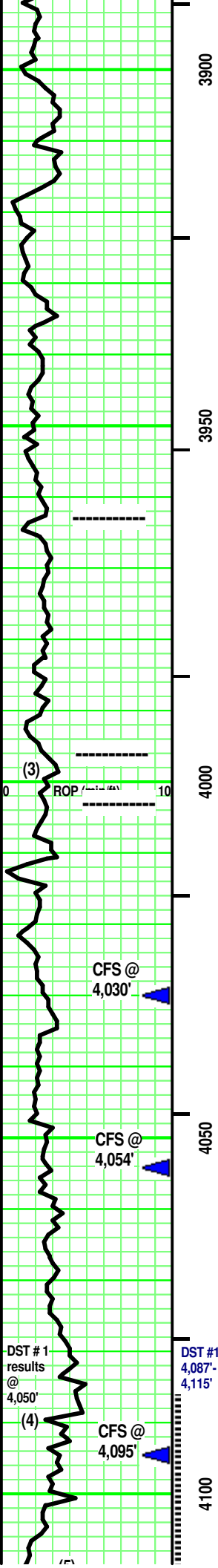
LS - Lt/ Med Tan. Sing. XF-/ Micro-xln. xln por. some Re-xln. some argil/shaly in part. Firm. No/ tr vis por.

SH - Grays. Sing. tr calc to limy in part. some Firm. Blocky.

Add: VF Oolites/ Oolcasts. Clear/ Lt Tan, semitransparent Matrix.



Vis: 63	Wt: 8.9	LCM: 3#
Vis: 56	Wt: 9.0	LCM: 1#
Vis: 56	Wt: 9.0	LCM: 1#
Vis: 56	Wt: 9.1	LCM: 1#
100 units = 1% Gas	TG, C1-C5	100
Vis: 59	Wt: 9.0	LCM: 1#
Vis: 60	Wt: 9.1	LCM: 1#
Vis: 50	Wt: 9.1	LCM: 1#
Vis: 50	Wt: 9.1	LCM: 1#



3900

LS (2) - Tan. Sing. Micro-xln. xln por. tr Re-xln. Firm. No/ tr vis por.

SH - Black. Sing. Carb. Soft.
LS - similiar to (2) above.

LS - Lt/ Med Gray, Tans. Sing/ Mot. XF-/ Micro-xln. xln por. some Re-xln. subchalky in part. argil/shaly. some interbedded Re-xln. partly Firm. No/ tr/ rare Fair vis por. Dense at top/depth

LS - Tans/ some Pale Lt Gray, tr Off White. Sing/Mot. Micro-xln. xln & some part por. Subchalky. some fossil frags. some argil. Friable. Tr/ Fair vis por.

3950

SH - Black. Sing. Carb. Soft.
LS - Lt Gray. Sing. Micro-xln. xln por. No/ tr vis por.

SH - Med Gray. Sing. Calc/ LS stringers. . Firm. Massive.

4000

(3) ROP (mud level)

LS (3) - SH - Lt Gray. Sing. calc.

LS - Off White/ Tan. Sing/ tr Mot. Micro-xln. xln & tr Vuggy por. [some VF Oolites in part, Off White. Clear/ Pale Tan, semitransparent Matrix. Friable. Tr vis por.] some Re-xln. rare subchalky in part. mostly Firm. No/ tr vis por.

SH - Med Gray. Sing. Massive. soft.

4050

LS - Lt & Med Tan. Sing/ Mot. XF-/ Micro-xln. xln & tr part por. rare Fossil frags. subchalky in part. partly Friable. No/ tr vis por.

SH - Med Gray. Sing. Massive. soft.

LS - Tans/ tr Off White. Sing/ tr Mot. XF-/ Micro-xln. xln por. tr Re-xln at depth. subchalky in part. partly Friable. No/ tr vis por.

SH - Med/ Dark Gray. Sing. Massive. soft.

LS (4) - Lt & Med Tan. Sing/ Mot. XF-/ Micro-xln. xln & particle por. tr Re-xln. rare subchalky in part. Firm. No/ tr vis por. No odor. Spotted high yellow

SH - Lt Gray. Sing. calc. firm.

LS (5) - Tan/ Tannish Off White. Sing. Micro-xln. Chalky. fossil frags in part. Friable. No/ tr vis por. ? odor. Spotted, dull yellow flourescence. No free oil or gas. Spotted, irregular Med Brown stain. No/ V Weak pos cut. No/ V Weak pos acid/ residual.

4100

Side Temperature -- 0 deg F (+/- 4 deg)

Vis: 50	Wt: 9.1	LCM: 1#
Vis: 59	Wt: 9.1	LCM: 1#
Vis: 60	Wt: 9.1	LCM: 1#
Vis: 50	Wt: 9.1	LCM: 1#

-- HEEBNER SH
3,963' (-960')

Vis: 50	Wt: 9.1	LCM: 1#
---------	---------	---------

LS (3) - Off White/ Tan. Sing/ tr Mot. Micro-xln. xln & tr Vuggy por. mostly Firm. No/ tr vis por.

Vis: 50	Wt: 9.1	LCM: 1#
---------	---------	---------

-- TORONTO
3,996' (-993')

TG, C1-C5 100

100 units = 1% Gas

LANSING
4,003' (-1,000')

Vis: 52	Wt: 9.1	LCM: 1#
Vis: 52	LCM: 9.1	LCM: 1#

<----- CFS @ 4,030': 50"

4,047' -	Vis: 52	Wt: 9.2
DST #1 LANSING	Wtr Loss: 8.8	
(4,087"-4,115')	PV: 13	YP: 17
	Gels: 9/20	
Rec:	pH: 10.0	LCM: 2#
715' Gassy Muddy Wtr	Cl (2,200)	Ca (80)
(2%G,18%M,80%W)	Solids: 6.1%	

<----- CFS @ 4,054': 50"

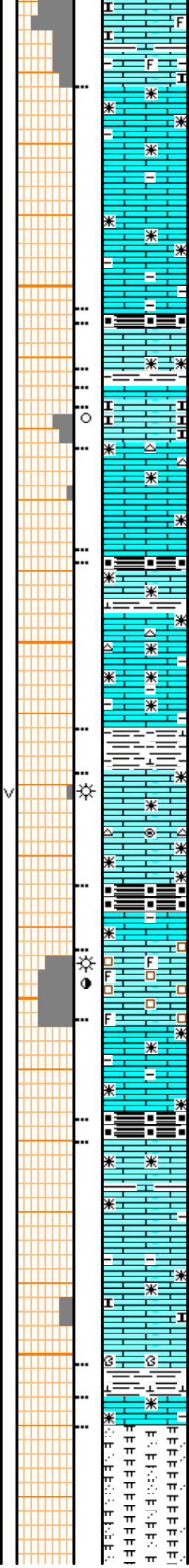
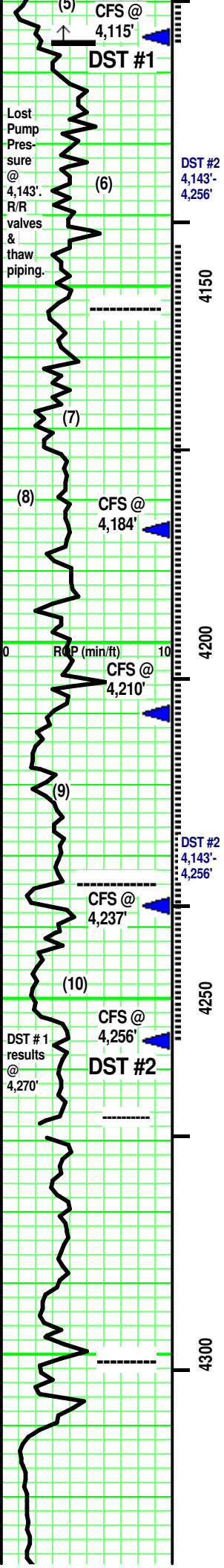
IFP: 12# - 135#/30"	Vis: 50
ISIP: 1,175# / 45"	Wt: 9.1
FFP: 141# - 335# / 60"	LCM: 2#
FSIP: 1,166# / 90"	
	129 deg F
MH: 1,939# - 1,928#	

LS (4) - flourescence. On own, tr minute gas bubbles. No free oil. spotted Lt/Med Brown, irregular stain. V Weak cut/ residual. Weak acid/residual

HW: 6u/ 3u (Bk)

<----- CFS @ 4,095': 50"

DST #1 @ 4,115' -	Vis: 54	Wt: 9.1
After DST #1,	Wtr Loss: 7.2	PV: 14
HW: 5u	11/19	pH: 10.5
from	LCM: 2#	Cl (2,500)
	Cl (tr)	Solids: 6.3%



LS (6) - Lt & Med Tan. some Off White Sing/ tr Mot. tr XF-/ Micro-xln. some Crypto-xln. xln and rare, intermixed pinpoint por. Re-xln. some argil with depth. Firm. mostly No/ tr vis por.

----- MUNCIE CREEK 4,153' (-1,150')
 SH - Black. Sing. Carb. Soft.
 LS - Similar to (6) above. adding: Lt & Med Gray. Sing.

SH - Lt/ Med. Gray. Sing. tr calc. Firm.
 LS - similar to (6) above. minute, spotted Med ----->
 LS (7) - Tan/ White. Sing. Micro-xln. xln por. Subchalky to Chalk. Friable. No/ tr vis por. ----->

LS (8) - Tan/ Off White/ Grayish Tan, tr Pale Lt Gray with depth. Sing/ tr Mot. XF-/ Micro-xln. xln por. some Re-xln. [few pcs: CHERT - Off White/ Tan. Sing/ Mot. Opaque. some, minute white inclusions. No tripolitic.] Firm. No/ tr vis por.

SH - Black. Sing. Carb. Soft.
 LS - Similar to (8) above. adding: Lt & Med Gray. Sing.

SH - Med Gray. Sing. tr calc.
 LS - Tan - Grayish Tan/ Lt Gray with depth. Sing/ tr Mot. Micro-xln. xln por. some Re-xln. [few pcs: CHERT - Off White/ Tan. Sing/ Mot. Opaque. some, minute white inclusions. No tripolitic.] Firm. No/ tr vis por.

SH - Med Gray, tr Tannish Gray. Sing. some calc. tr soft. tr ductile.
 1 pc LS (9) - Lt Gray. Sing. Crypto-xln. tr vuggy por. Firm. tr/some vis por. No odor. Spotted yellow fluorescence. No free oil. some minute gas bubbles in vuggy por. tr oil 'wet' facies. spotted Lt Brown stain. Weak Pos cut/ residual. Weak acid/ residual.

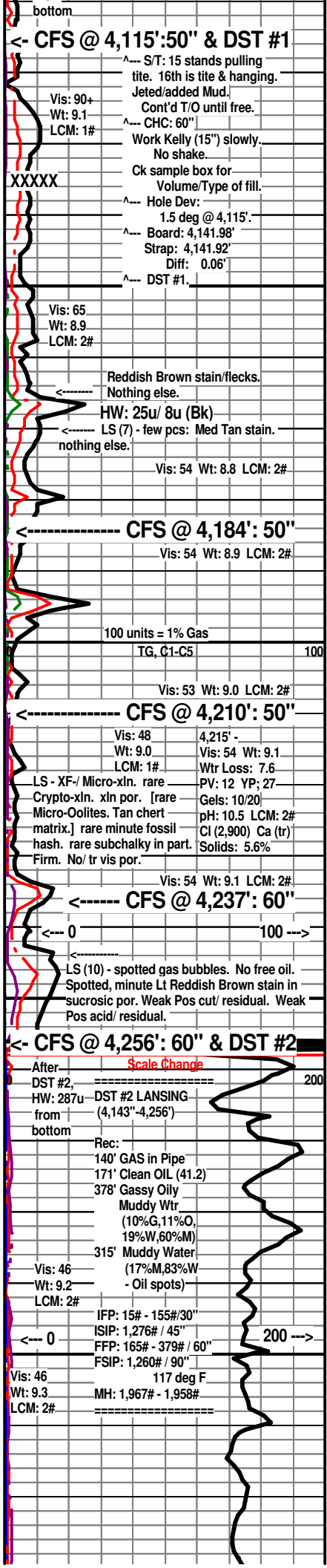
LS - Tan/ some Off White/ Lt Gray. Sing/ rare Mot. -->
 ----- STARK SH 4,234' (-1,231')
 SH - Black. Sing. Carb. Soft.
 LS - Tan/ Lt Gray. Sing/ tr Mot. tr XF-/ Micro-xln. xln por. tr Re-xln. tr argil. Firm. No/ tr vis por.

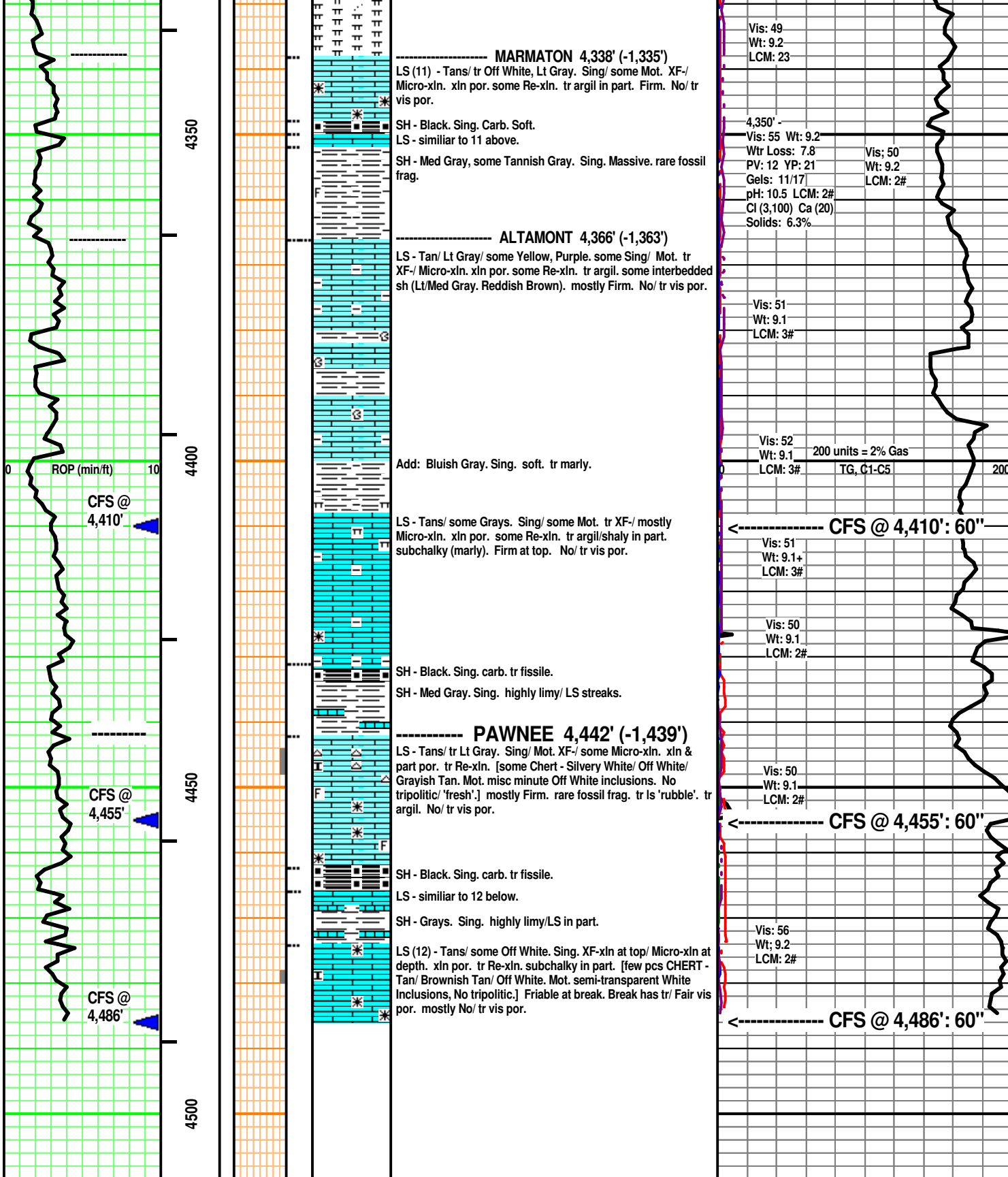
LS (10) - Tan. Sing. VF-xln. xln & sucrosic por. fossil frags & hash. Friable. tr/ Fair vis por. ?/Fair odor. spotted dull yellow fluorescence, A/C, minute, ----->

LS - Tan/ Lt Gray. Sing/ tr Mot. tr XF-/ Micro-xln. xln por. some Re-xln. tr argil. Firm. No/ tr vis por.

----- HUSHPUCKNEY SH 4,267' (-1,264')
 SH - Black. Sing. Carb. Soft.
 LS - Tans/ Grays. Sing/ some Mot. XF-/ Micro-xln. xln por. some Re-xln. [subchalky at depth/ Friable.] tr fossil frags. some argil in part/ interbedded. Firm. No/ tr vis por.

----- B / KC 4,301' (-1,298')
 Interbedded SH, Marl & LS
 SH - Grays / Greenish Gray. Sing. some calc. some marly in part.
 Marl - Off White/ Reddish hue Off White. silt sized, SA qtz grains floating in marl matrix.
 LS - Tans/ Grays. Sing/ some Mot. XF-/ Micro-xln. xln por. some Re-xln. tr fossil frags. some argil in part/ interbedded. Firm. No/ tr vis por.







CONSOLIDATED
Oil Well Services, LLC

C/S
MS

TICKET NUMBER 27985
LOCATION Dakley KS
FOREMAN Pat Heister

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8876

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-5-11	5161	Sheets #1	16	12S	33W	Logan
CUSTOMER New Gulf Operating		741 S85	TRUCK#			
MAILING ADDRESS		1W	456 T118	Chad S	TRUCK#	
CITY		1/3	528 T127	Kelly G	DRIVER	
STATE		Winto		Miles S	DRIVER	
ZIP CODE					DRIVER	

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 272 CASING SIZE & WEIGHT 8 7/8 24 #
 CASING DEPTH 255 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 16.2 SLURRY VOL _____ WATER gal/ck 5.6 CEMENT LEFT IN CASING 20'
 DISPLACEMENT 16 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: sfty meeting mix 200 slk 3% cc 2% gel Release Plus Displace 16
PBL H2O @ 150 PST shut in @ 100 PST

Circulated good cement

Thank you
Pat & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54615	1	PUMP CHARGE		
5406	16 mi	MILEAGE	10.25	164.00
5407	1	Min. Bulk Deliver	5.00	5.00
11045	200 slk	Class 'A' cement	4.10	410.00
1105	564 Lbs	Calcium Chloride	16.40	3,360.00
11148	376 Lbs	Bentonite gel	1.95	473.76
4432	1	8 7/8 Wearden Plus	124	90.20
			96	96
		Subtotal		5,505.00
		Less	20.70	1,101.00
				4,404.00
		SALES TAX		913.56
		ESTIMATED TOTAL		4,717.56

AUTHORIZATION [Signature] TIME Tool Pusher 2395.10

DATE 2-5-11

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.



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-487-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

TICKET NUMBER 30799
LOCATION Oakley Ks
FOREMAN Pat Heister

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-15-11	5061	Sheets #1	16	125	33 ^W	Logan
CUSTOMER: <u>New Gulf operating</u> MAILING ADDRESS: _____ CITY: _____ STATE: _____ ZIP CODE: _____						

TRUCK #	DRIVER	TRUCK #	DRIVER
528-T137	Kelly Guba		
458-T227	Chad Shiff		
460	Tosh Gucka		

JOB TYPE Perf-DV-0 HOLE SIZE 7 7/8 HOLE DEPTH 4780' CASING SIZE & WEIGHT 5 1/2 - 15.5 #
 CASING DEPTH 4779 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 13.8 - 12.5 SLURRY VOL _____ WATER gal/sk 82 - 10.5 CEMENT LEFT IN CASING 42'
 DISPLACEMENT 114 BBL DISPLACEMENT PSI _____ MIX PSI 300 # RATE 7 BPM

REMARKS: Safety Meeting, Run Float Equipment, Centralizers #1, #2, #3, #4, #5, #6, #7, #8, #9, #10, #11, #12, #13, #14, #15, #16, #17, #18, #19, #20, #21, #22, #23, #24, #25, #26, #27, #28, #29, #30, #31, #32, #33, #34, #35, #36, #37, #38, #39, #40, #41, #42, #43, #44, #45, #46, #47, #48, #49, #50, #51, #52, #53, #54, #55, #56, #57, #58, #59, #60, #61, #62, #63, #64, #65, #66, #67, #68, #69, #70, #71, #72, #73, #74, #75, #76, #77, #78, #79, #80, #81, #82, #83, #84, #85, #86, #87, #88, #89, #90, #91, #92, #93, #94, #95, #96, #97, #98, #99, #100, #101, #102, #103, #104, #105, #106, #107, #108, #109, #110, #111, #112, #113, #114, #115, #116, #117, #118, #119, #120, #121, #122, #123, #124, #125, #126, #127, #128, #129, #130, #131, #132, #133, #134, #135, #136, #137, #138, #139, #140, #141, #142, #143, #144, #145, #146, #147, #148, #149, #150, #151, #152, #153, #154, #155, #156, #157, #158, #159, #160, #161, #162, #163, #164, #165, #166, #167, #168, #169, #170, #171, #172, #173, #174, #175, 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Pump 500 gal mud flush, mixed 175 SKS OWC, clear Pump Lines, Dep Plug Displaced 52 BBL @ 60 BBL mud @ 850 #, Land Plug @ 1800 #, released Pressure, Float Held,
Drop pressure tool wait 15 min, operational, Circ 4 Hrs
Cement Ret Hole - 30 SKS, misc hole - 20 SKS, mixed 375 SKS @ 850 #, 8% @ 14 # Fluor,
released Plug + Displaced 53 BBL @ 850 #, Land Plug @ 1800 #
released Pressure, Tool Hole
Cement Did Circ.

Thank You, Pat + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE		
5406	10	MILEAGE	285.00	2,850.00
1126	175	OWC	5.00	50.00
1110A	875 #	Kal Seal	21.48	3,759.00
1118B	3256 #	Bentonic	1.53	463.35
1140G	500 gal	Mud Flush	1.24	781.44
1131	425 SKS	6 1/4 OWC	1.00	500.00
1107	106 #	Fluor Seal	14.35	6,098.75
5407A	26.5	Tax Mileage Delivery	2.66	281.96
4159	1	AFU Float Shoe - 5 1/2	1.58	418.70
4130	18	Centralizers - 5 1/2	413.00	413
4104	1	Basket - 5 1/2	58.00	1,044.00
4277	1	DV Tool - 5 1/2	276.00	276.00
			3,220.00	3,220.00
				20,156.00
				4,031.32
				16,125.28
				1313.34
				17,438.62

SALES TAX ESTIMATED TOTAL 17,438.62
 AUTHORIZATION: TITLE: 239585 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 for