Natural Gas • Crude Oil
Exploration & Production

McCOY PETROLEUM CORPORATION

Wichita, Kansas

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

Well Name:	Miller 'T' GU #2-10		
Location:	Sec. 10 - T31S - R9W, Harper County, KS		
License Number:	API #: 15-077-21991	Region:	Spivey-Grabs-Basil
Spud Date:	November 30, 2013	Drilling Completed:	December 6, 2013
Surface Coordinates:	S/2 NW 1980' FNL & 1320' FWL		
Bottom Hole Coordinates:			
Ground Elevation (ft):	1685'	K.B. Elevation (ft):	1694'
Logged Interval (ft):	3400' To: 4550'	Total Depth (ft):	4550' RTD 4548' LTD
Formation:	Mississippian		
Type of Drilling Fluid:	Chemical/Polymer/Gel		

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

OPERATOR

Company: McCoy Petroleum Corporation, KCC License #5003
Address: 8080 E. Central Ave., Suite 300
Wichita, KS 67206

GEOLOGIST

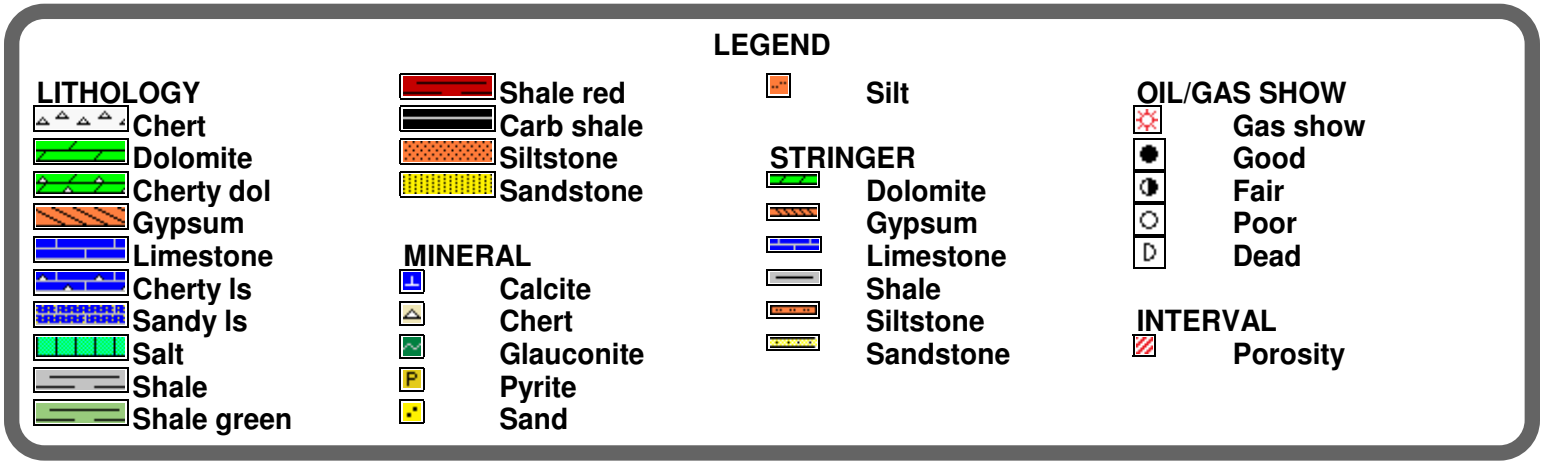
Name: Evan Stone
Company: McCoy Petroleum Corporation
Address: 8080 E. Central Ave., Suite 300
Wichita, KS 67206

CASING & DEVIATION

Spud at 3:45 pm on 11/30/13.

Drilled 12-1/4" hole to 264'. Ran 6 joints of new 23# 8-5/8" surface casing, tallied 248.40', set at 259.40' KB. Welded straps on bottom 3 joints. Cemented with 275 sks 60/40 POZ; 2% Gel; 3% CC; 1/4# CF. Plug down at 3:30 am on 12/01/13. Cement did circulate. Quality Cementing ticket #6073. Basket at 220' KB which is 209' from GL, which is below the minimum casing requirement of 200'. Cemented through 1" tubing with 95 sks Common. Cement to cellar. Quality Cementing. Cement has again fallen down to 20' below GL. Cement with 100 sks Common. Quality Cementing ticket #6074 for both jobs.

Deviation Surveys Taken: @ 246' = 1 degree; @4550' = 2.5 degrees



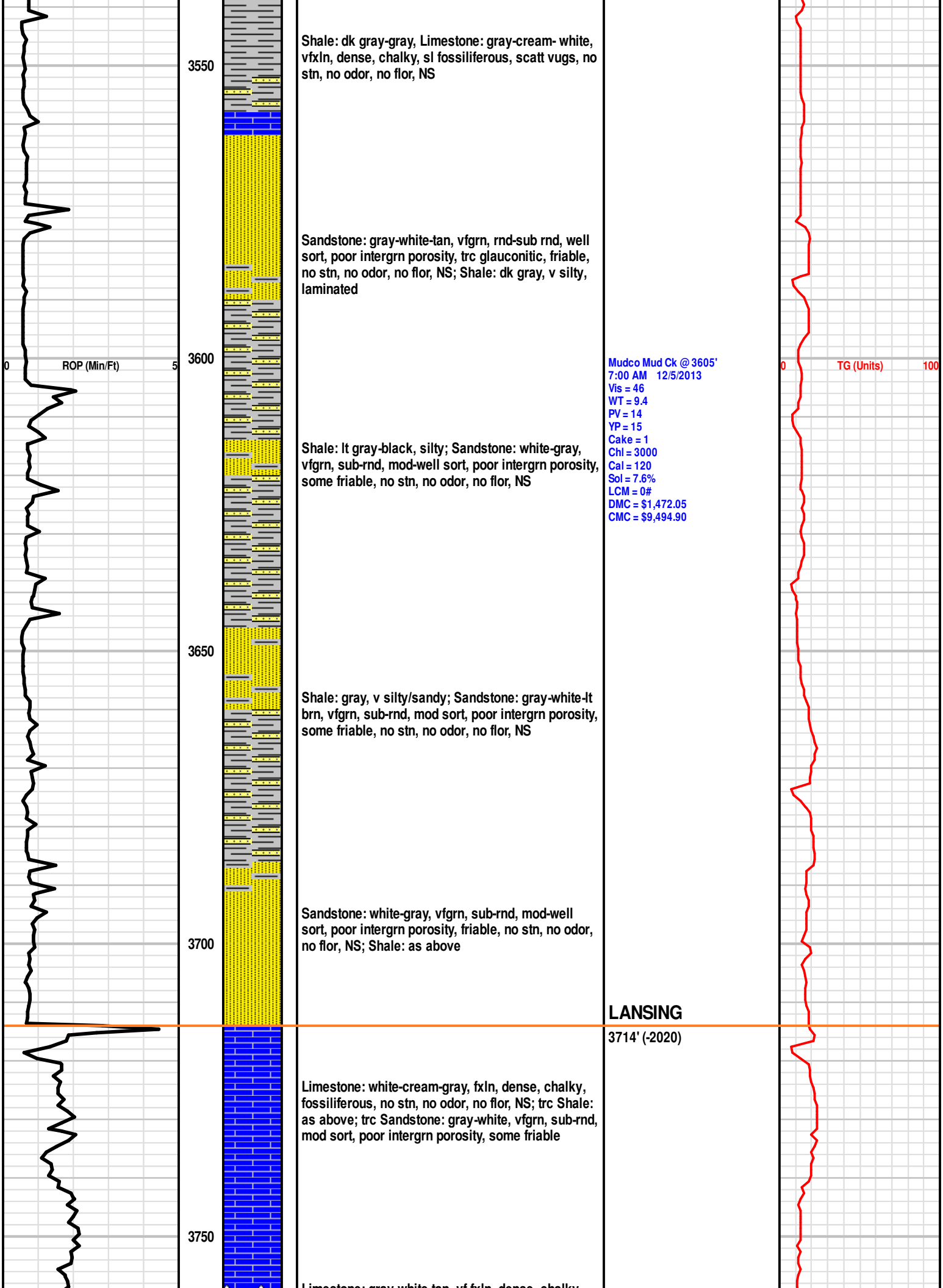
Miller 'T' GU #2-10

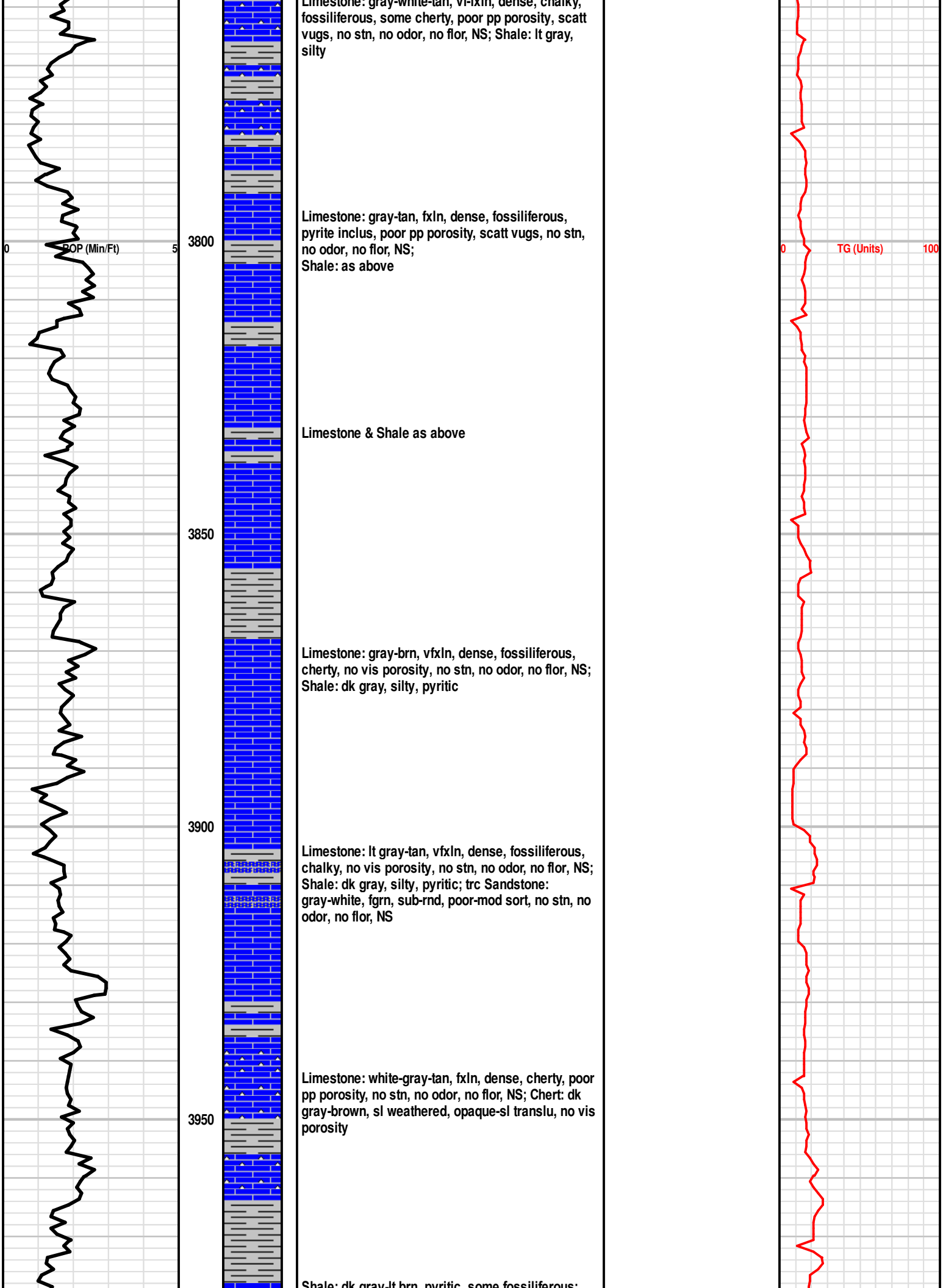
ROP (Min/Ft)

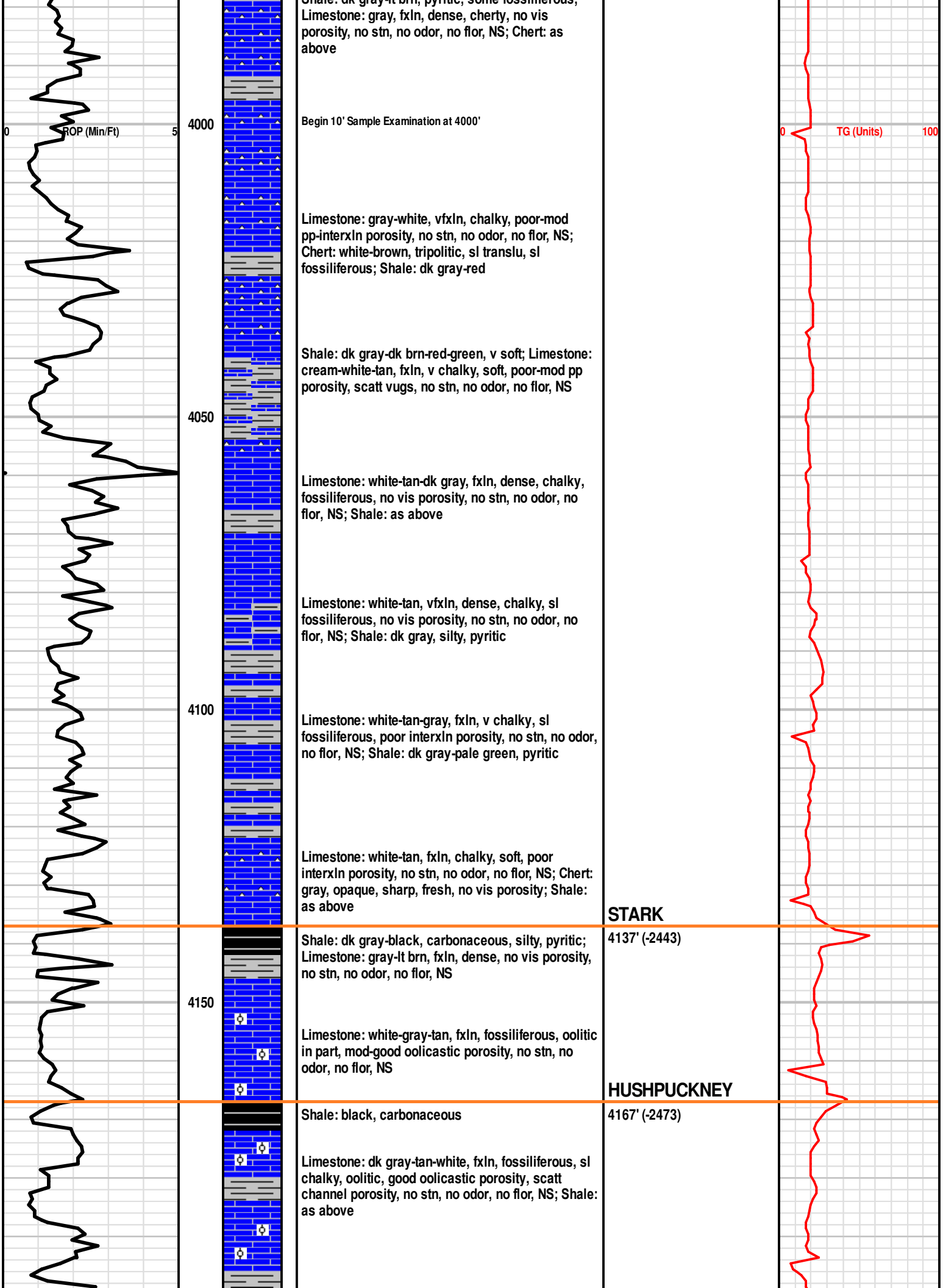
TOTAL GAS

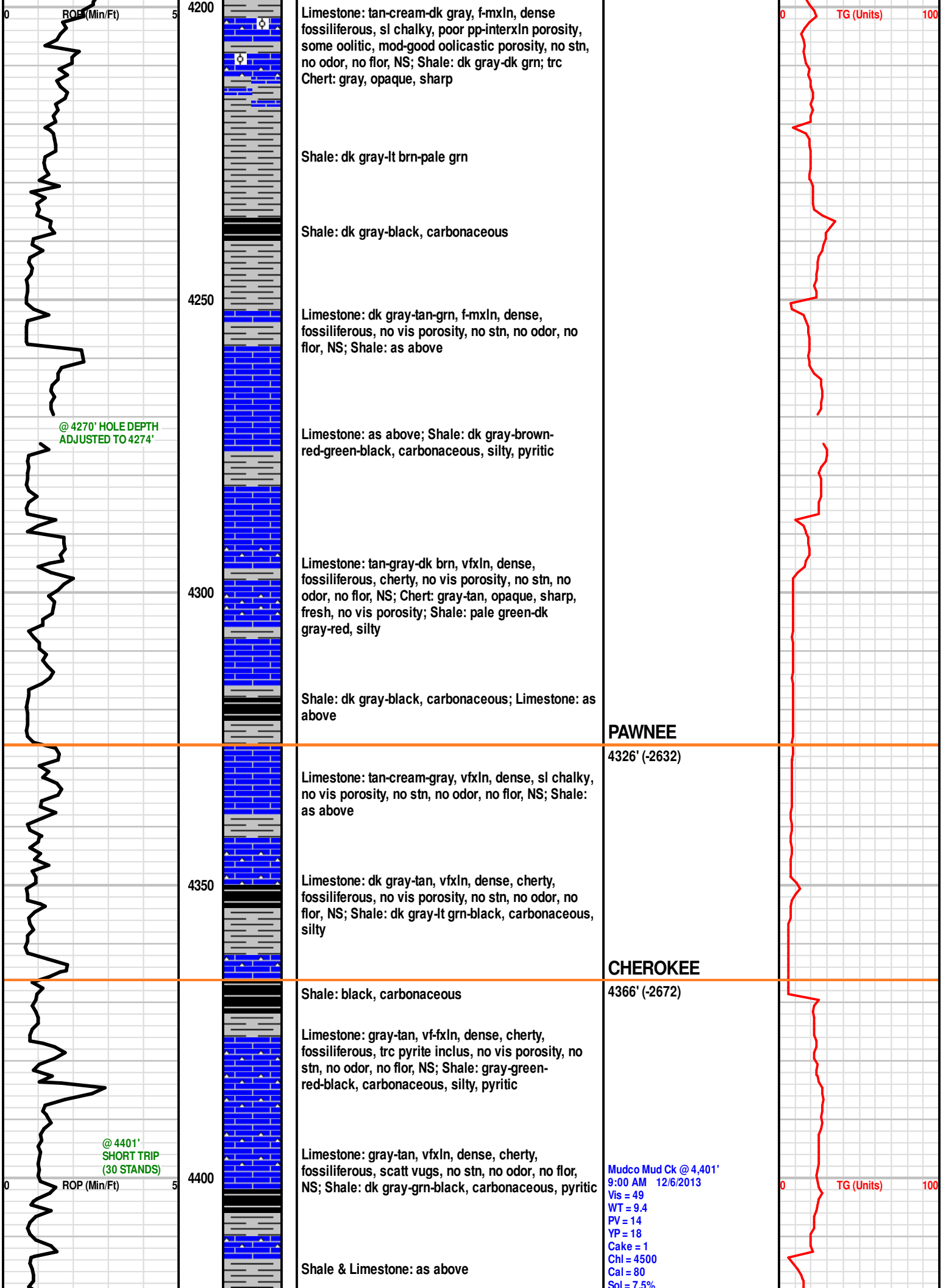
TG (Units)

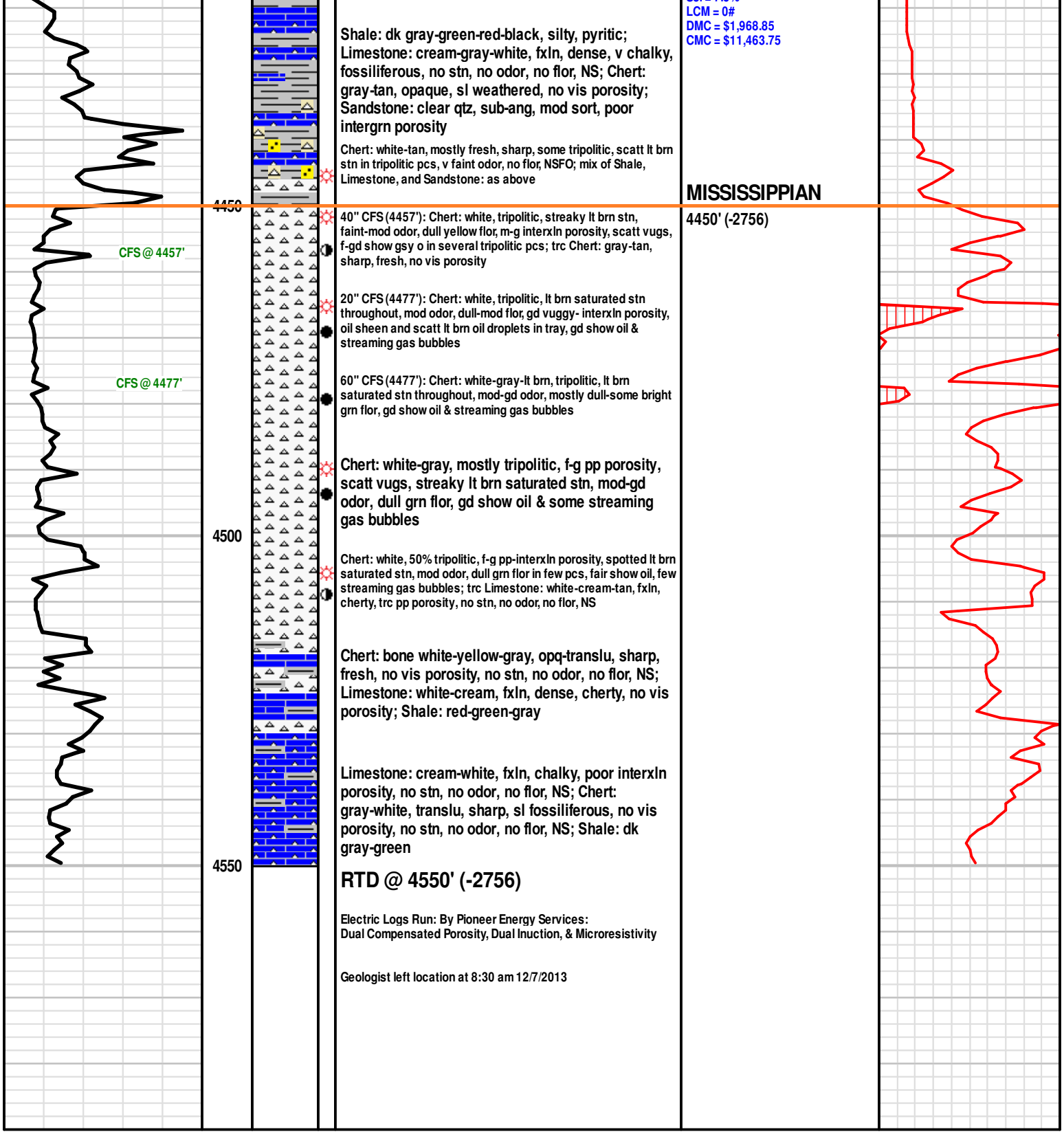
DEPTH	LITHOLOGY	OIL/GAS SHOWS	SAMPLE DESCRIPTIONS	REMARKS
3400			McCoy Petroleum Corporation Miller 'T' GU #2-10 S/2 NW 1980' FNL & 1320' FWL Sec. 10 - T31S - R9W Spivey-Grabs-Basil Field Harper County, KS API: 15-077-21991 Sterling Drilling: Rig #4 Elevations: 1694' KB 1685' GL Geologist on location: 4060' at 10:00 pm on 12/5/2013 Begin 31' Sample Examination at 3000'	
3450				
3500			Shale: lt gray-dk gray-black, carbonaceous, sandy, pyritic, some fossiliferous; Limestone: white-cream-brn, fxln, fossiliferous, no vis porosity, sl chalky	HEEBNER 3510' (-1816)
			Shale: dk gray-black, silty, carbonaceous; Limestone: white-cream, no vis porosity, soft, v chalky, no stn, no odor, no flor, NS	


0
ROP (Min/Ft)
5
3550
3600
3650
3700
3750
Shale: dk gray-gray, Limestone: gray-cream- white, vfxln, dense, chalky, sl fossiliferous, scatt vugs, no stn, no odor, no flor, NS
Sandstone: gray-white-tan, vfgrn, rnd-sub rnd, well sort, poor intergrn porosity, trc glauconitic, friable, no stn, no odor, no flor, NS; Shale: dk gray, v silty, laminated
Shale: lt gray-black, silty; Sandstone: white-gray, vfgrn, sub-rnd, mod-well sort, poor intergrn porosity, some friable, no stn, no odor, no flor, NS
Shale: gray, v silty/sandy; Sandstone: gray-white-lt brn, vfgrn, sub-rnd, mod sort, poor intergrn porosity, some friable, no stn, no odor, no flor, NS
Sandstone: white-gray, vfgrn, sub-rnd, mod-well sort, poor intergrn porosity, friable, no stn, no odor, no flor, NS; Shale: as above
Limestone: white-cream-gray, fxln, dense, chalky, fossiliferous, no stn, no odor, no flor, NS; trc Shale: as above; trc Sandstone: gray-white, vfgrn, sub-rnd, mod sort, poor intergrn porosity, some friable
Mudco Mud Ck @ 3605'
7:00 AM 12/5/2013
Vis = 46
WT = 9.4
PV = 14
YP = 15
Cake = 1
Chl = 3000
Cal = 120
Sol = 7.6%
LCM = 0#
DMC = $1,472.05
CMC = $9,494.90
LANSING
3714' (-2020)
0
TG (Units)
100


0
ROP (Min/Ft)
5
3800
3850
3900
3950
0
TG (Units)
100
Limestone: gray-white-tan, vf-fxln, dense, chalky, fossiliferous, some cherty, poor pp porosity, scatt vugs, no stn, no odor, no flor, NS; Shale: lt gray, silty
Limestone: gray-tan, fxln, dense, fossiliferous, pyrite inclus, poor pp porosity, scatt vugs, no stn, no odor, no flor, NS;
Shale: as above
Limestone & Shale as above
Limestone: gray-brn, vfxln, dense, fossiliferous, cherty, no vis porosity, no stn, no odor, no flor, NS;
Shale: dk gray, silty, pyritic
Limestone: lt gray-tan, vfxln, dense, fossiliferous, chalky, no vis porosity, no stn, no odor, no flor, NS;
Shale: dk gray, silty, pyritic; trc Sandstone: gray-white, fgrn, sub-rnd, poor-mod sort, no stn, no odor, no flor, NS
Limestone: white-gray-tan, fxln, dense, cherty, poor pp porosity, no stn, no odor, no flor, NS; Chert: dk gray-brown, sl weathered, opaque-sl translu, no vis porosity
Shale: dk gray-lt brn, pyritic, some fossiliferous;


0
ROP (Min/Ft)
5
4000
4050
4100
4150
Limestone: gray, fxln, dense, cherty, no vis porosity, no stn, no odor, no flor, NS; Chert: as above
Begin 10' Sample Examination at 4000'
Limestone: gray-white, vfxln, chalky, poor-mod pp-interxln porosity, no stn, no odor, no flor, NS; Chert: white-brown, tripolitic, sl translu, sl fossiliferous; Shale: dk gray-red
Shale: dk gray-dk brn-red-green, v soft; Limestone: cream-white-tan, fxln, v chalky, soft, poor-mod pp porosity, scatt vugs, no stn, no odor, no flor, NS
Limestone: white-tan-dk gray, fxln, dense, chalky, fossiliferous, no vis porosity, no stn, no odor, no flor, NS; Shale: as above
Limestone: white-tan, vfxln, dense, chalky, sl fossiliferous, no vis porosity, no stn, no odor, no flor, NS; Shale: dk gray, silty, pyritic
Limestone: white-tan-gray, fxln, v chalky, sl fossiliferous, poor interxln porosity, no stn, no odor, no flor, NS; Shale: dk gray-pale green, pyritic
Limestone: white-tan, fxln, chalky, soft, poor interxln porosity, no stn, no odor, no flor, NS; Chert: gray, opaque, sharp, fresh, no vis porosity; Shale: as above
STARK
4137' (-2443)
Shale: dk gray-black, carbonaceous, silty, pyritic; Limestone: gray-lt brn, fxln, dense, no vis porosity, no stn, no odor, no flor, NS
Limestone: white-gray-tan, fxln, fossiliferous, oolitic in part, mod-good oolicastic porosity, no stn, no odor, no flor, NS
HUSHPUCKNEY
4167' (-2473)
Shale: black, carbonaceous
Limestone: dk gray-tan-white, fxln, fossiliferous, sl chalky, oolitic, good oolicastic porosity, scatt channel porosity, no stn, no odor, no flor, NS; Shale: as above
0
TG (Units)
100


0
ROP (Min/Ft)
5
4200
4250
4300
4350
4400
@ 4270' HOLE DEPTH
ADJUSTED TO 4274'
@ 4401'
SHORT TRIP
(30 STANDS)
0
ROP (Min/Ft)
5
Limestone: tan-cream-dk gray, f-mxln, dense fossiliferous, sl chalky, poor pp-interxln porosity, some oolitic, mod-good oolicastic porosity, no stn, no odor, no flor, NS; Shale: dk gray-dk grn; trc Chert: gray, opaque, sharp
Shale: dk gray-lt brn-pale grn
Shale: dk gray-black, carbonaceous
Limestone: dk gray-tan-grn, f-mxln, dense, fossiliferous, no vis porosity, no stn, no odor, no flor, NS; Shale: as above
Limestone: as above; Shale: dk gray-brown-red-green-black, carbonaceous, silty, pyritic
Limestone: tan-gray-dk brn, vfxln, dense, fossiliferous, cherty, no vis porosity, no stn, no odor, no flor, NS; Chert: gray-tan, opaque, sharp, fresh, no vis porosity; Shale: pale green-dk gray-red, silty
Shale: dk gray-black, carbonaceous; Limestone: as above
PAWNEE
4326' (-2632)
Limestone: tan-cream-gray, vfxln, dense, sl chalky, no vis porosity, no stn, no odor, no flor, NS; Shale: as above
Limestone: dk gray-tan, vfxln, dense, cherty, fossiliferous, no vis porosity, no stn, no odor, no flor, NS; Shale: dk gray-lt grn-black, carbonaceous, silty
CHEROKEE
4366' (-2672)
Shale: black, carbonaceous
Limestone: gray-tan, vf-fxln, dense, cherty, fossiliferous, trc pyrite inclus, no vis porosity, no stn, no odor, no flor, NS; Shale: gray-green-red-black, carbonaceous, silty, pyritic
Limestone: gray-tan, vfxln, dense, cherty, fossiliferous, scatt vugs, no stn, no odor, no flor, NS; Shale: dk gray-grn-black, carbonaceous, pyritic
Shale & Limestone: as above
Mudco Mud Ck @ 4,401'
9:00 AM 12/6/2013
Vis = 49
WT = 9.4
PV = 14
YP = 18
Cake = 1
Chl = 4500
Cal = 80
Sol = 7.5%
0
TG (Units)
100
0
TG (Units)
100


LCM = 0#
DMC = $1,968.85
CMC = $11,463.75
Shale: dk gray-green-red-black, silty, pyritic; Limestone: cream-gray-white, fxln, dense, v chalky, fossiliferous, no stn, no odor, no flor, NS; Chert: gray-tan, opaque, sl weathered, no vis porosity; Sandstone: clear qtz, sub-ang, mod sort, poor intergrn porosity
Chert: white-tan, mostly fresh, sharp, some tripolitic, scatt lt brn stn in tripolitic pcs, v faint odor, no flor, NSFO; mix of Shale, Limestone, and Sandstone: as above
MISSISSIPPIAN
4450' (-2756)
4450
CFS @ 4457'
40" CFS (4457'): Chert: white, tripolitic, streaky lt brn stn, faint-mod odor, dull yellow flor, m-g interxln porosity, scatt vugs, f-gd show gsy o in several tripolitic pcs; trc Chert: gray-tan, sharp, fresh, no vis porosity
20" CFS (4477'): Chert: white, tripolitic, lt brn saturated stn throughout, mod odor, dull-mod flor, gd vuggy- interxln porosity, oil sheen and scatt lt brn oil droplets in tray, gd show oil & streaming gas bubbles
CFS @ 4477'
60" CFS (4477'): Chert: white-gray-lt brn, tripolitic, lt brn saturated stn throughout, mod-gd odor, mostly dull-some bright grn flor, gd show oil & streaming gas bubbles
Chert: white-gray, mostly tripolitic, f-g pp porosity, scatt vugs, streaky lt brn saturated stn, mod-gd odor, dull grn flor, gd show oil & some streaming gas bubbles
4500
Chert: white, 50% tripolitic, f-g pp-interxln porosity, spotted lt brn saturated stn, mod odor, dull grn flor in few pcs, fair show oil, few streaming gas bubbles; trc Limestone: white-cream-tan, fxln, cherty, trc pp porosity, no stn, no odor, no flor, NS
Chert: bone white-yellow-gray, opq-translu, sharp, fresh, no vis porosity, no stn, no odor, no flor, NS; Limestone: white-cream, fxln, dense, cherty, no vis porosity; Shale: red-green-gray
Limestone: cream-white, fxln, chalky, poor interxln porosity, no stn, no odor, no flor, NS; Chert: gray-white, translu, sharp, sl fossiliferous, no vis porosity, no stn, no odor, no flor, NS; Shale: dk gray-green
4550
RTD @ 4550' (-2756)
Electric Logs Run: By Pioneer Energy Services:
Dual Compensated Porosity, Dual Inuction, & Microresistivity
Geologist left location at 8:30 am 12/7/2013