

Formations

Strata Kan, LLC.

Kraus #1

Production Drlg.

Rhian #1

SE-NE-NW Sec. 13-8s-13w SW-SW-SE Sec. 12-8s-22w


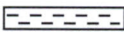

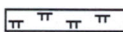
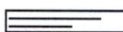
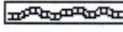




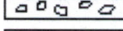

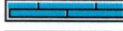
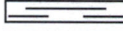

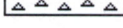


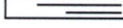

Sample

Log

Log

	Sample	Log	Log
Anhy.	1633 (+436)	1631 (+438)	1592 (+468)
Topeka	3049 (-980)	3049(-980)	3013 (-953)
Heeb.	3264 (-1195)	3264 (-1195)	3221 (-1161)
Toronto	3286 (-1217)	3286 (-1217)	3242 (-1182)
LKC	3301 (-1232)	3300 (-1231)	3300 (-1231)
BKC	3509 (-1440)	3509 (-1440)	3462 (-1402)
Arb.	3662 (-1593)	3662 (-1993)	3564 (-1504)
TD	3718 (-1649)	3721 (-1652)	3579 (-1519)













ROCK TYPES

 Anhy	 Clyst	 Gyp	 Mrlst	 Shgy
 Bent	 Coal	 Igne	 Salt	 Sltst
 Brec	 Congl	 Lmst	 Shale	 Ss
 Cht	 Dol	 Meta	 Shcol	 Till

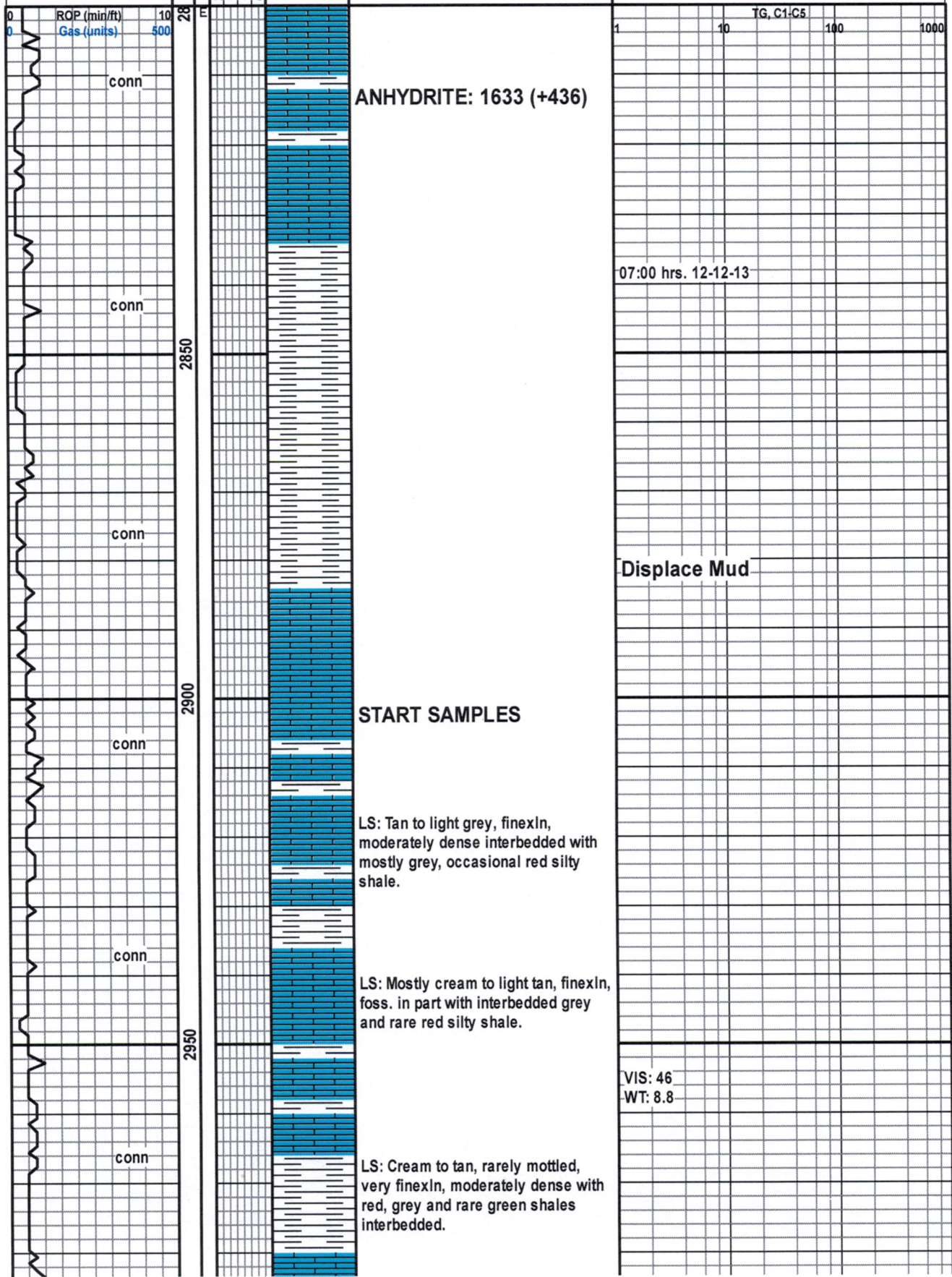
ACCESSORIES

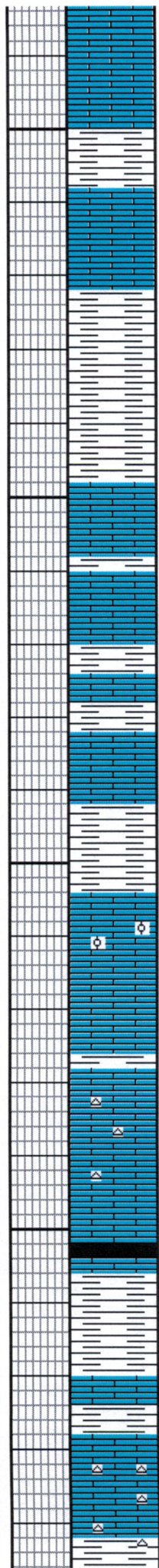
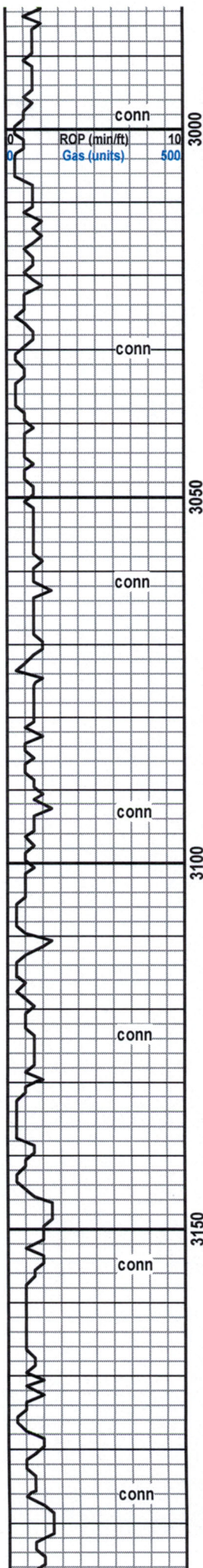
MINERAL	 Gyp	FOSSIL	 Ostra	 Sltstrg
 Anhy	 Hvymn	 Algae	 Pelec	 Ssstrg
 Arggrn	 Kaol	 Amph	 Pellet	TEXTURE
 Arg	 Marl	 Belm	 Pisolite	 Boundst
 Bent	 Minxl	 Bioclst	 Plant	 Chalky
 Bit	 Nodule	 Brach	 Strom	 Cryxln
 Brecfrag	 Phos	 Bryozoa	STRINGER	 Earthy
 Calc	 Pyr	 Cephal	 Anhy	 Finexln
 Carb	 Salt	 Coral	 Arg	 Grainst
 Chtdk	 Sandy	 Crin	 Bent	 Lithogr
 Chtlt	 Silt	 Echin	 Coal	 Microxln
 Dol	 Sil	 Fish	 Dol	 Mudst
 Feldspar	 Sulphur	 Foram	 Gyp	 Packst
 Ferrpel	 Tuff	 Fossil	 Ls	 Wackst
 Ferr		 Gastro	 Mrst	
 Glau		 Oolite		

OTHER SYMBOLS

POROSITY	 Vuggy	ROUNDING	 Spotted	EVENT
 Earthy	SORTING	 Rounded	 Ques	 Rft
 Fenest	 Well	 Subrnd	 Dead	 Sidewall
 Fracture	 Moderate	 Subang	INTERVAL	
 Inter	 Poor	 Angular	 Core	
 Moldic		OIL SHOW	 Dst	
 Organic		 Even		
 Pinpoint				

Curve Track 1 ROP (min/ft) ——— Gas (units) - - - - -	Depth Porosity Type Porosity 24% 18% 12% 8%	Lithology	Geological Descriptions	TG, C1-C5	
				TG (Units) ——— C1 (units) - - - - - C2 (units) C3 (units) C4 (units) C5 (units)	





LS: Mostly grey and tan, very fine to microxln, dense, with occasional red sometimes silty shale interbedded.

LS: Mostly grey, mottled, finexln with some tan, very finexln, foss., oolitic, very dense.

LS: Cream to grey, mostly mottled, finexln, dense with abundant interbedded grey, red and rare green shale with biotite inclusions.

LS: Mostly cream, finexln rarely microxln, very dense.

LS: Cream to very light tan, marley in part, slightly foss. moderately dense.

LS: Cream to tan, finexln, foss. in part, friable to moderately dense becoming tan, very finexln, very dense.

SH: Mostly grey, platy with occasional red.

LS: Mostly cream to light tan, finexln, moderately dense with very rare dark grey, microxln, oolitic limestone.

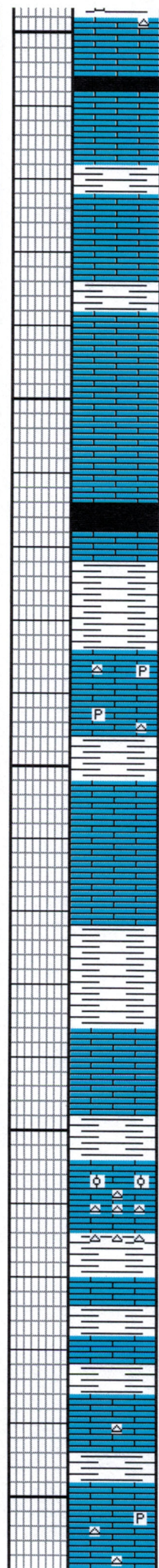
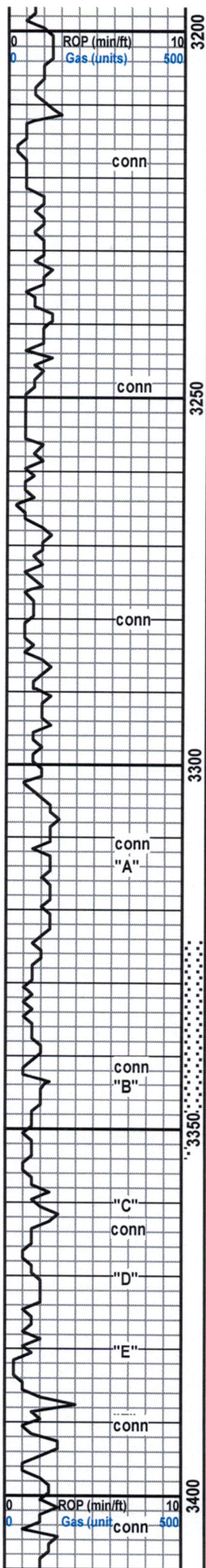
LS: Mostly cream to light tan, finexln, very friable, with fair interxln porosity, shly/marley in part with rare lighy grey, fresh opaque chert.

SH: Black carb.

SH: Mostly red, platy with some grey and green.

LS: Mostly cream to very light tan, fine to mediumxln, very foss., mostly very dense with abundant fresh, white, opaque chert.

TG, C1-C5			
1	10	100	1000
VIS: 48			
WT: 8.6			
LCM: 1#			
FIL: 8.4			
CHL: 2000			
TOPEKA: 3049 (-980)			
VIS: 48			
WT: 8.9			
VIS: 49			
WT: 8.9			
LCM: 1.5#			



SH: Mostly red and grey with rare black, carb.

LS: Mostly cream to very light tan, finexln, sucrosic in part, very friable with fair, barren interln porosity.

conn

LS: Cream to light tan, mostly finexln, dense with some grey, red and rare green shale interbedded.

conn

LS: Mostly cream, finexln, dense with rare free pyrite.

SH: Black, carb.

LS: Tan, very finexln, very dense.

SH: Mostly red with light grey and occasional green.

LS: Tan, very finexln, very dense with occasional cream to tan, fresh opaque chert and rare free pyrite.

SH: Mostly red and grey.

LS: White, very finexln, dense, with rare poor interln porosity at very top.

conn "A"

LS: White, finexln, rarely microxln, very dense.

SH: Red and grey with rare very light green.

LS: Cream, finexln, mostly dense with rare fair show of free oil in rare poor to fair interln porosity. Weak odor. Good ring cut.
NOTE: Strap at 3352' was 4.23' long to board.

conn "B"

NOTE: Between 3352 & 3366 clock stopped, autodrill out, brakes are glazed from trip. Drill time means nothing.

LS: Tan, finexln, dense with some friable, rare spotted stain with much free pyrite and cream and orange, fresh opaque chert.

SH: Red and grey.

Note: Samples are very poor due to very heavy mud. All various limestones and shales.

conn "C"

conn "D"

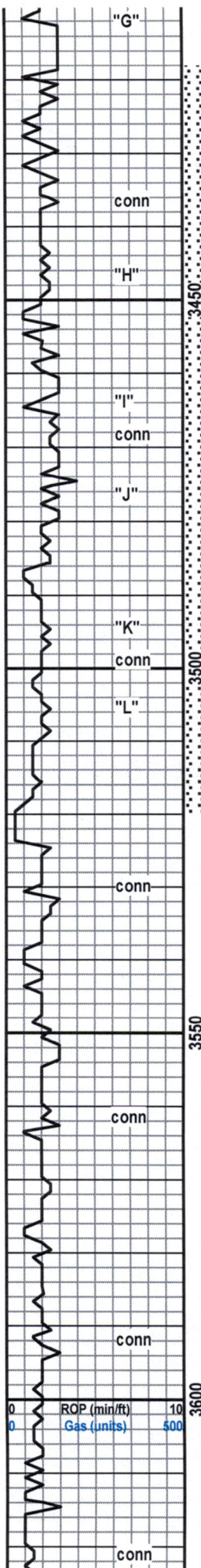
conn "E"

LS: Mostly cream, finexln, dense with rare scattered shows of free oil in rare interln and vugular porosity. No odor, rare fair flush cut. Various grey red and green shales interbedded.

conn

LS: Off white to cream, mostly finexln, very dense rarely foss. with

TG, C1-C5			
1	10	100	1000
HEEBNER: 3264 (-1195)			
TORONTO: 3286 (-1217)			
VIS: 49 WT: 9.0 LCM: 1.5#			
LKC: 3301 (-1232)			
CFS at 3320'			
DST #1 3322'-3352' LKC: "B" zone 30-30-30-30 Recovered 10' mud. IFP: 10-13, FFP: 12-16, BHP: 608-610, BHT: 99 deg.			
VIS: 49 WT: 9.1 LCM: 1.5#			
CFS at 3352' 07:00 hrs. Friday 12-13-13 VIS: 49 WT: 9.3 LCM: 1# CHL: 3000 FIL: 8.8 CFS at 3366'			
NOTE: Brakes are still glazed. This all hand drilled. Drill time is meaningless.			
TG, C1-C5			
1	10	100	1000



abundant cream fresh opaque chert (sluff?)

SH: Black, carb.

LS: Tan, very finexln, very dense.

SH: Various red, often silty with grey and rare green.

LS: Light grey, finexln, moderately dense with rare show of free oil in poor interxln porosity. Poor ring cut. No odor.

SH: Mostly grey with rare red.

LS: Greyn fine rarely microxln, mostly dense with rare show of free oil in apparent poor interxln porosity. Poor cut.

LS: Mostly cream, finexln, friable with occasional poor to fair show of free oil in interxln and rare vugular porosity. Good ring cut. Very weak odor.

SH: Black, carb. with abduent grey.

LS: Cream, finexln, with rare fair show of free oil in poor rairly fair vugular porosity. Good ring cut, very weak odor.

SH: Red and grey.

LS: Cream to tan, finexln, dense.

SH: Mostly very soft red mudstone with some grey and green shale.

LS: Cream, finexln, slightly foss. in part, dense. NS.

SH: Mostly red, generally silty with some green and grey, platy.

LS: Cream, finexln, dense.

SH: Mostly red, very soft, silty in part, Occasional grey, platy and green, with rare calcite and Cream to white, semitrans, fresh chert.

SH: Mostly red, very soft, silty in part with some grey and green. Abundant fresh, cream chert.

DST #2 3417'-3520' LKC: "H-I-J-K-L" zones.
 45-6045-60. Recovered 100' drilling mud.
 IFP: 14-35, FFP: 36-51, BHP: 429-405,
 BHT: 102 dedg.

CFS at 3483' 07:00 hrs Sat. 12-14-13

VIS: 48
 WT: 9.2

**Base Kansas City:
 3509 (-1440)**

CFS at 3520'

VIS: 48
 WT: 9.3
 LCM: 1#
 FIL: 8.8
 CHL: 2000

TG, C1-C5

VIS: 45
 WT: 9.2
 LCM: 1#

