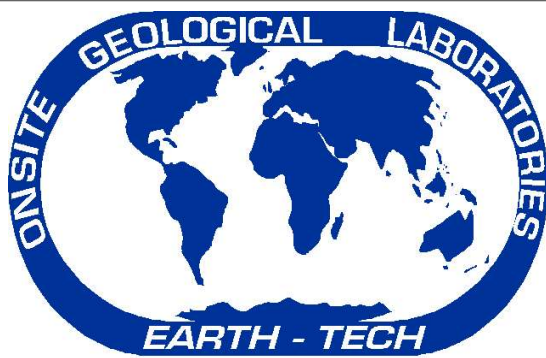




Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: HMU 203S
Well Id:
Location: Sec 30 23s 34w, Finney County, Kansas
License Number: 15-055-22147-0001
Spud Date: Dec. 26th, 2017
Surface Coordinates: SW NE NE NW
2020 FWL & 455' FNL
Bottom Hole
Coordinates:
Ground Elevation (ft): 2980' K.B. Elevation (ft): 2992'
Logged Interval (ft): 5064' To: 5560' Total Depth (ft): 5560
Formation: SPERGEN, WARSAW
Type of Drilling Fluid: Natural Chemical

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

OPERATOR

Company: Merit Energy Co. LLC
Address: 13727 Noel Road, Suite 1200
Dallas, TX 75240
Co. Geo: Mr. Martin Lange

GEOLOGIST

Name: Tim Hedrick/Aaron Suelter
Company: Earth Tech OGL, Inc.
Address: PO Box 683
Hooker, Okla. 73945
Off: 888-543-8378 Cell: 580-754-0062

ROCK TYPES

Anhy
Bent
Brec
Cht
Clyst
Coal
Congl
Dol

Gyp
Igne
Lmst
Meta
Mrlst
Salt
Shale
Shcol

Shgy
Sltst
Ss
Till
Carb sh
Dol
Dtd
Gry sh

Sandylms
Shale
Sltstn
Shlyslts
Sltysl
Lms

ACCESSORIES

MINERAL

	Anhy
	Arggrn
	Arg
	Bent
	Bit
	Brecfrag
	Calc
	Carb
	Chtdk
	Chtlit
	Dol
	Feldspar
	Ferrpel
	Ferr
	Glau
	Gyp
	Hvymin
	Kaol
	Marl
	Minxl
	Nodule
	Phos
	Pyr



Salt
Sandy
Silt
Sil
Sulphur
Tuff
Chlorite
Dol
Sand
Silty

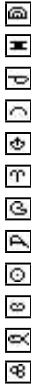


Fossil
Gastro
Oolite
Ostra
Pelec
Pellet
Pisolite
Plant
Strom
Fuss
Oomolo



Clystn
Dol
Grysh
Gryslt
Lms
Sandylms
Sh
Sltstn

FOSSIL



Algae
Amph
Belm
Bioclst
Brach
Bryozoa
Cephal
Coral
Crin
Echin
Fish
Foram

STRINGER



Anhy
Arg
Bent
Coal
Dol
Gyp
Ls
Mrst
Sltstrg
Ssstrg
Carbsh

TEXTURE



Boundst
Chalky
CryxIn
Earthy
FinexIn
Grainst
Lithogr
MicroxIn
Mudst
Packst
Wackest

OTHER SYMBOLS

POROSITY TYPE



Earthy
 Fenest
 Fracture
 Inter
 Moldic
 Organic
 Pinpoint
 Vuggy

SORTING



Well
Moderate
Poor

ROUNDING



Rounded
Subrnd
Subang



Angular

OIL SHOWS



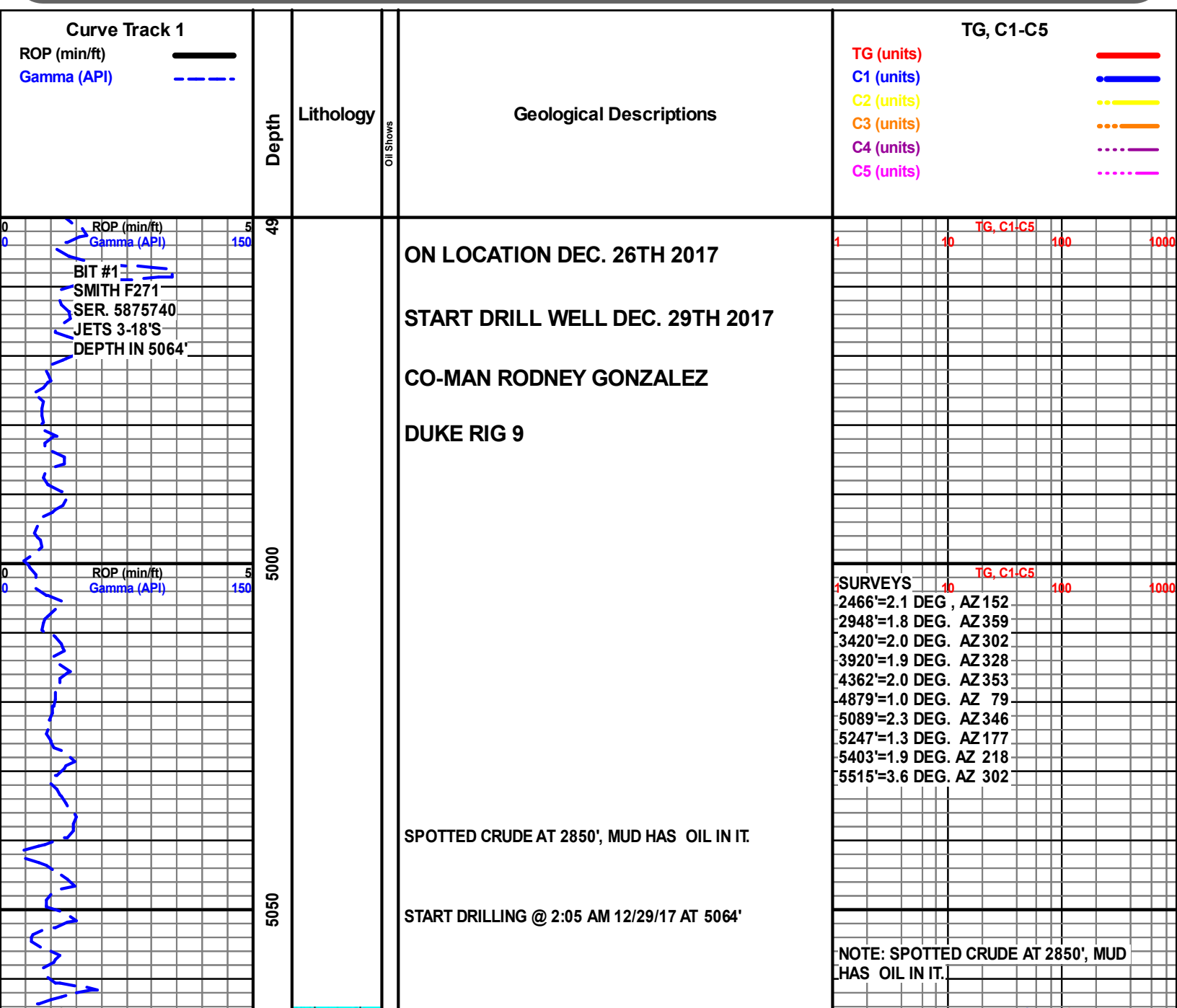
**Even
Spotted
Ques
Dead
Gas show**

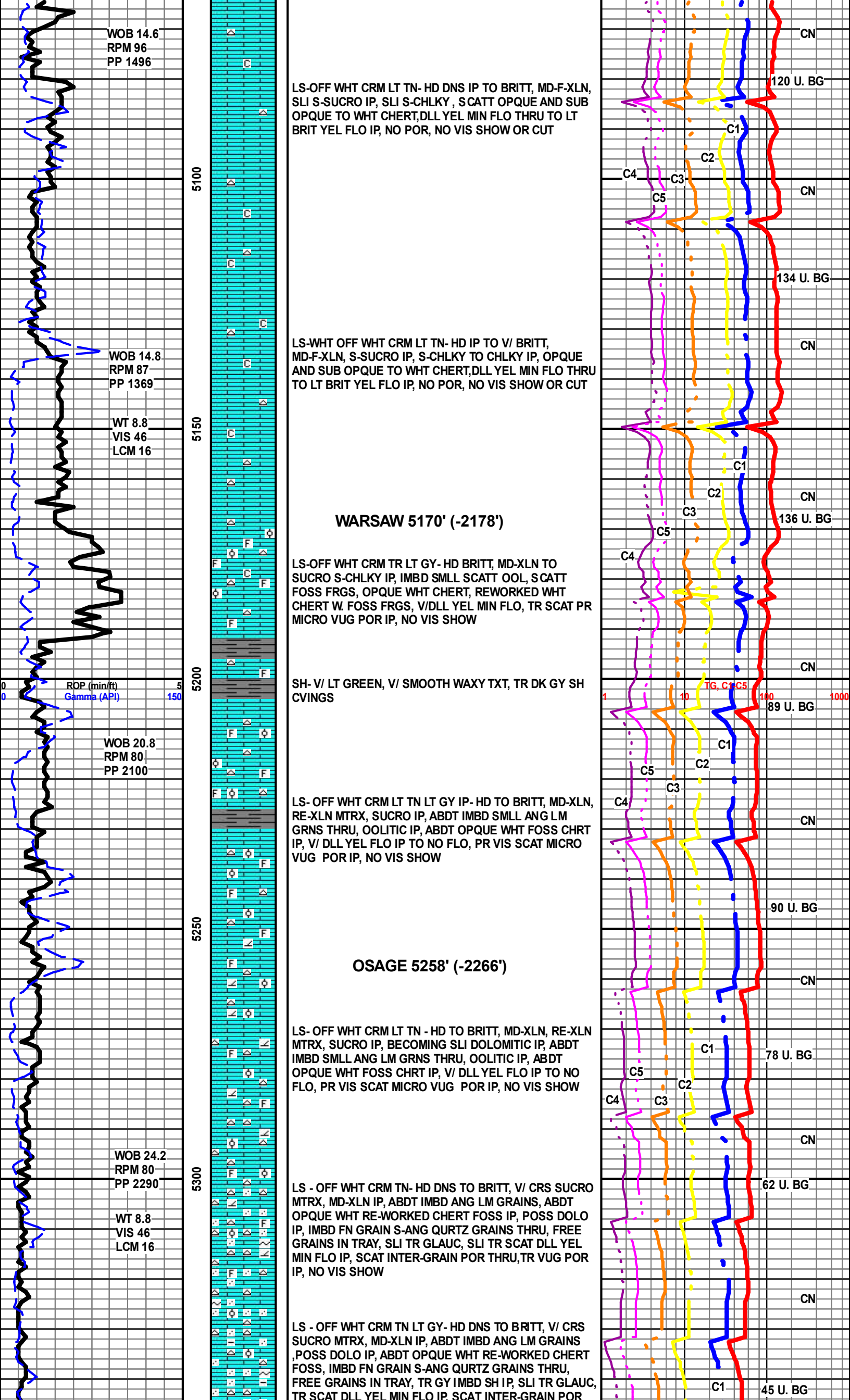
INTERVALS

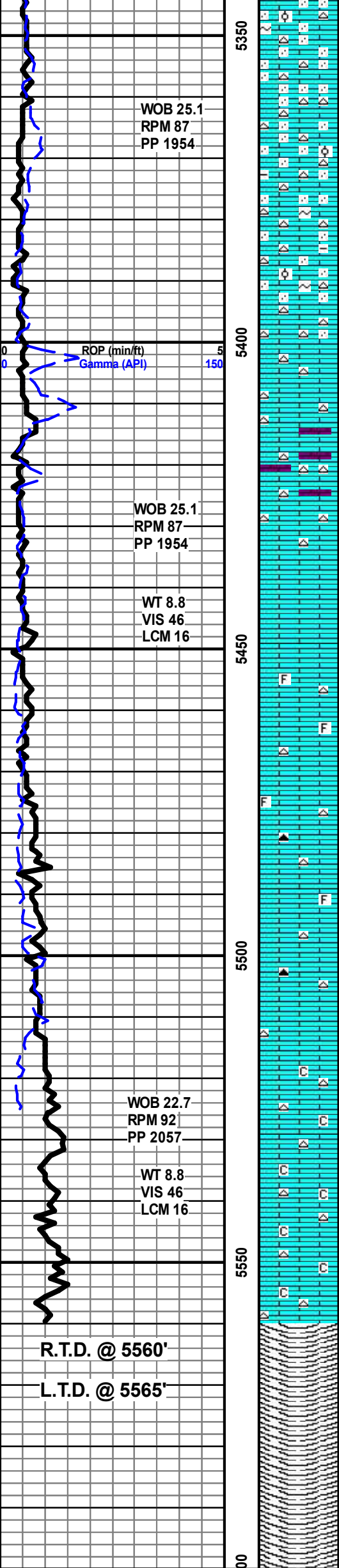


Core
Dst
Dst

EVENTS

Rft
Sidewall





THRU, SCAT VUG POR IP, NO VIS SHOW

LS - OFF WHT CRM TN LT GY- HD DNS TO BRITT, V/ FN TO CRS SUCRO, ABDT IMBD ANG LM GRAINS ,POSS SLI DOLO IP, ABDT OPQUE WHT RE-WORKED CHERT FOSS, IMBD FN GRAIN S-ANG QURTZ GRAINS THRU, FREE GRAINS IN TRAY, SLI TR GY IMBD SH IP, SLI TR GLAUC, TR SCAT DLL YEL MIN FLO IP, SCAT INTER-GRAIN POR THRU, NO VIS SHOW

LS- CRM LT TN BRN- HD DNS IP TO BRITT, V/ SUCRO MTRX TO F-XLN WHT OFF WHT CHERT BLUE GY CHRT, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

KINDERHOOK 5412' (- 2420')

LS- CRM LT TN TN LT BRN, F-XLN TO V/ FN SUCRO MTRX IP, HD DNS , WITH LT BRN STRINGERS OF V/ SUCRO DOL IP, ABDT BLUEISH GY WHT CHRT, DLL YEL MIN FLO IP, NO VIS POR, POSS MICRO PP POR IP, NO VIS SHOW

LS- CRM LT GY-HD DNS IP TO BRITT, MD-XLN TO CRYPTO-XLN , TR FOSS FRGS IP, SLI TR S-CHLKY IP, NO FLO, NO VIS POR, NO VIS SHOW

LS- CRM BFF LT TN- HD DNS TO BRITT IP, MD-XLN TO CRS SUCRO IP, TR IMBD ANG LM GRNS, SCAT FOSS FRGS IP, WHT OFF WHT CHERT, NO FLO, NO VIS POR, NO VIS SHOW

LS- CRM LT TN TN LT GY- HD DNS BRITT IP, F-CRYPTO-XLN, TO MED -XLN IP, FOSS FRGS IP, WHT LT GY CHERT, DLL YEL MIN FLO, POSS FRACT POR IP, NO VIS SHOW OR CUT

VIOLA 5518' (-2526')

LS-OFF WHT CRM BFF- MD HD TO SFT SUCRO TO SUCRO S-CHLKY MTRX, W/ ABDT OPQUE TO WHT REWORKED CHERT, V/ DLL YEL MIN FLO IP, NO VS POR, NO VIS SHOW

R.T.D @ 1:05 PM DEC.29TH 2017 AT 5560'

CTCH/TRIP OUT F/LOGS

LOGGERS FINISH 10:45 PM 12/29/2017

