KOLAR Document ID: 1426434

Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 35616
Name: Fletcher Petroleum Co., LLC dba Fletcher Operating LLC
Address 1: PO BOX 2147
Address 2:
City: FAIRHOPE State: AL Zip: 36533 + 2147
Contact Person: Alex Owen
Phone: (251) 990-0733
CONTRACTOR: License # 32701
Name: C & G Drilling, Inc.
Wellsite Geologist: Curtis Covey
Purchaser:

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover

☑ Oil ☐ WSW ☐ SWD
☐ Gas ☐ DH ☐ EOR
☐ OG ☐ GSW
☐ 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 EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ EOR Permit #:
☐ GSW Permit #:

10/21/2018	10/27/2018	10/27/2018
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-127-20600-00-00
Spot Description: Well site is stake in a grass hay meadow
_ - SE - SW - NW Sec. 6 Twp. 16 S. R. 9 ☑ East ☐ West
2962 Feet from ☐ North / ☑ South Line of Section
996 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Morris
Lease Name: AMOS Well #: 12-6
Field Name:
Producing Formation: N/A
Elevation: Ground: 1344 Kelly Bushing: 1350
Total Vertical Depth: 3330 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 262 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: 800 ppm Fluid volume: 47 bbls
Dewatering method used: Evaporated
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: 11/20/2018
☐ **Confidential Release Date:** 11/19/2020
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 11/26/2018

Operator Name: Fletcher Petroleum Co., LLC dba Fletcher Operating LLC Lease Name: AMOS Well #: 12-6

Sec. 6 Twp. 16 S. R. 9 ☑ East ☐ West County: Morris

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 *(Attach Additional Sheets)*	☑ Yes	☐ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☑ Yes	☐ No

List All E. Logs Run:
Attached

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Arbuckle	3272	3330
Simpson	3183	3272
Viola	3095	3183

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	24	262	Class A	140	5%

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	-			
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/ Injection:	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:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Fletcher Petroleum Co., LLC dba Fletcher Operating LLC
Well Name	AMOS 12-6
Doc ID	1426434

All Electric Logs Run

Borehole Compensated Sonic
Dual Induction
Microresistivity
Gamma Ray/Caliper

Form	ACO1 - Well Completion
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Well Name	AMOS 12-6
Doc ID	1426434

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	262	Class A	140	5%

Covey
The Well Watchers

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

Well Name:	AMOS #12-6		
Location:	Section 6 - Township 19 South - Range 9 East		
Licence Number:	15-127-20,600-00-00	**Region:**	Morris County, KS.
Spud Date:	20 October 2018	**Drilling Completed:**	
Surface Coordinates:	2,962' FSL & 996' FWL (Approximate SE SW NW)		
Bottom Hole Coordinates:			
Ground Elevation (ft):	1,344'	**K.B. Elevation (ft):**	1,350'
Logged Interval (ft):	2,000' **To:**	**Total Depth (ft):**	
Formation:	Marmaton ------> Arbuckle		
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: FLETCHER PETROLEUM, LLC dba FLETCHER OPERATING, LLC.
Address: P. O .BOX 2147 **POC:** Alex Owen
Fairhope, Alabama 36533
(251) 990-0733

GEOLOGIST

Name: Curtis E. Covey
Company: COVEY - The Well Watchers
Address: 6548 Bedford Circle
Derby,Kansas 67037
Office: (316) 776-0367 Cell: (316) 217-4679

KB: 1,350' GL: 1,344'

FORMATION TOPS

Formation	Rotary Sample Depth (Datum)	E-log Depth (Datum)
Stark Shale	1,873' (-523')*	
B / KC	1,919' (-569')*	
	* Drilling Time	
Marmaton	2,019' (-669')	
Altamont	2,046' (-696')	
Cherokee Sh	2,161' (-811')	
MISS	2,476' (-1,126')	
Kinderhook Sh	2,785' (-1,435')	
Hunton	2,932' (-1,582')	
Maquoketa	3,028' (-1,678')	
Viola	3,095' (1,745')	
Simpson	3,183' (-1,833')	
Arbuckle	3,272' (-1,922')	

RTD: LTD: ATD:

Float:
E-Log is to rotary sample depth.

E-Loggers:

DST #1 - SIMPSON SS

Rotary Depth: 3,163' - 3,213'
Logger's Depth:

IFP: 11# - 12# / 15"
ISIP: 246# / 15"
FFP: 12# - 13# / 15"
FSIP: 305# / 15"
BHT: 113 deg F
MH: 1,551# - 1,539#

Recovery: 5' Mud (0.2% OIL, 99.8% Mud)

IF: Weak 1/4 inch Blow decreasing in 3 minutes, dead in 10 minutes.
ISI: No Blow back.
FF: No Blow back.
FSI: No Blow back.

Recovery Water: (NA)
System Water: (800 ppm)

Recovery Water (Engineer): (NA)

Reported Rw = NA.

Sampler: NA

Trilobite Testing ... Hoisington, KS.

DAILY DRILLING - OCTOBER

2018 2018

12/1/4" Hole (Surface)

20 Oct --- Spud @ 1:25pm.
--- Drilled to 262'.
Ran 8-5/8" (24#) casing.
Set @ 262'.
140sx Class A
(3% CC + 2% Gel).
Cement did circ.
[Elite Cementers].
Plug Down @ 7:55pm.
WOC.

7-7/8" Hole (Vertical)

21 Oct --- Drilled Cement.
U/S casing @ 4:45am.
7am @ 436'.
22 --- Bit Trip @ 1,973'.
7am @ 1,973'. Resumed Drilling @ 11:20am.
23 --- 7am @ 2,515'.
24 --- 7am @ 2,976'.
25 --- 7am @ 3,213'.
DST #1: Simpson SS
(3,163' - 3,213').

7-7/8" Hole (Vertical)

25 Oct --- 7am @ 3,213'.
DST #1: Simpson SS
(3,163' - 3,213').
26 --- 7am @ 3,275'.

HOLE DEVIATION (262' - ' MD)

12-1/4" Surface Hole

DEPTH	/	TVD	---	INCLINATION	AZIMUTH	NORTH	SOUTH	EAST	WEST	DOGLEG deg/100'
262'	/		---	0.125						

7-7/8" Vetical Hole

746'	/		---	0.125						
1,348'	/		---	0.50						
1,973'	/		---	0.50 (Bit Trip)						
3,213'	/		---	0.875 (DST #1)						

DST #1

Board: 3,227.58'
Strap: 3,229.33'
Diff: 1.75'

Inclination Surveys provided by C & G Drilling - Rig #1 - Wichita, Kansas

BIT RECORD

DATE	SIZE	TYPE	JET SIZE	DEPTH IN / OUT	CUM. FT.	HOURS	ROP
SURFACE ---		(IADC)					(ft/hr)
20 October 2018	12-1/4"	SMITH PDC ( )	2 - Open 3 - 15 2 - 13	O' / 262'	262'	3.00	87.3
VERTICAL ---							
21 October 2018	7-7/8"	ATLAS PDC ( )	3 -20, 3 - Open	262' / 1,973'	1,711'	15.5	110.4
22 October 2018	7-7/8"	JZ HA25 (527)	28 - 28 - 28	1,973' /			

CONTRACTOR

C & G Drilling Co. --- Rig # 1

701 East River Street
Eureka, Kansas 67045
Office: (620) 583-5318

Pump: EMSCO D-300
6.5" x 14" @ 60 / 66 SPM.
825 / 850 PSI @ Standpipe.

PDC - 10 -12M WOB ... 100 - 110 RPM.
TriCone Bit - 18 - 30M WOB ... 90 RPM.

Drill Pipe: 4" FH. (<13# / ft - used)

Bit / Collar Trip @ 1,973' to RTD:
Drill Collars: 6-1/8" x 2-5/16" --- 177'. (86#/ft)
Dry Collar Weight: 15,222#
(@ 9.2 ppg / Buoyancy Factor 0.86)
Bouyancy Collar Weight: 13,091#
Design Factor: 15% held back to keep drill string straight, therefore: available WOB is 11,127#

Check Weight Indicator @ 2,174'.
Calculated String Weight (49,960#) -vs- Observed WI (38,000#).

WI weighing 24% light -vs- Calculated String Weight.
WOB of 30M# on WI = 37.2M# Actual WOB. (Daylight)
WOB of 18M# on WI = 22M# Actual WOB. (Evening)

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
- 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

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
- Brecfrag
- 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

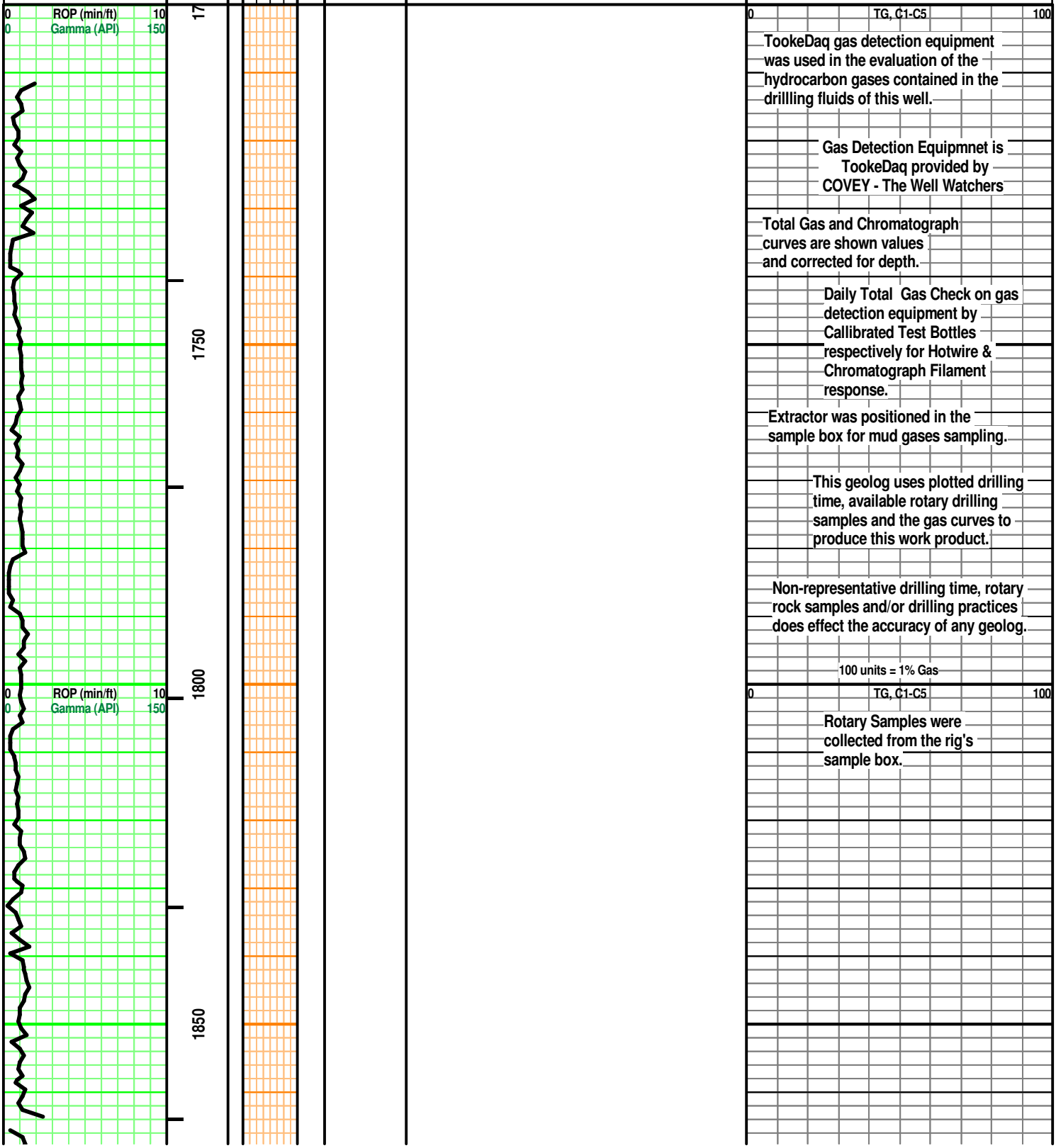
- Silty dol
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Calc dol
- Sltstrg
- Ssstrg
- Chalk
- New symbol

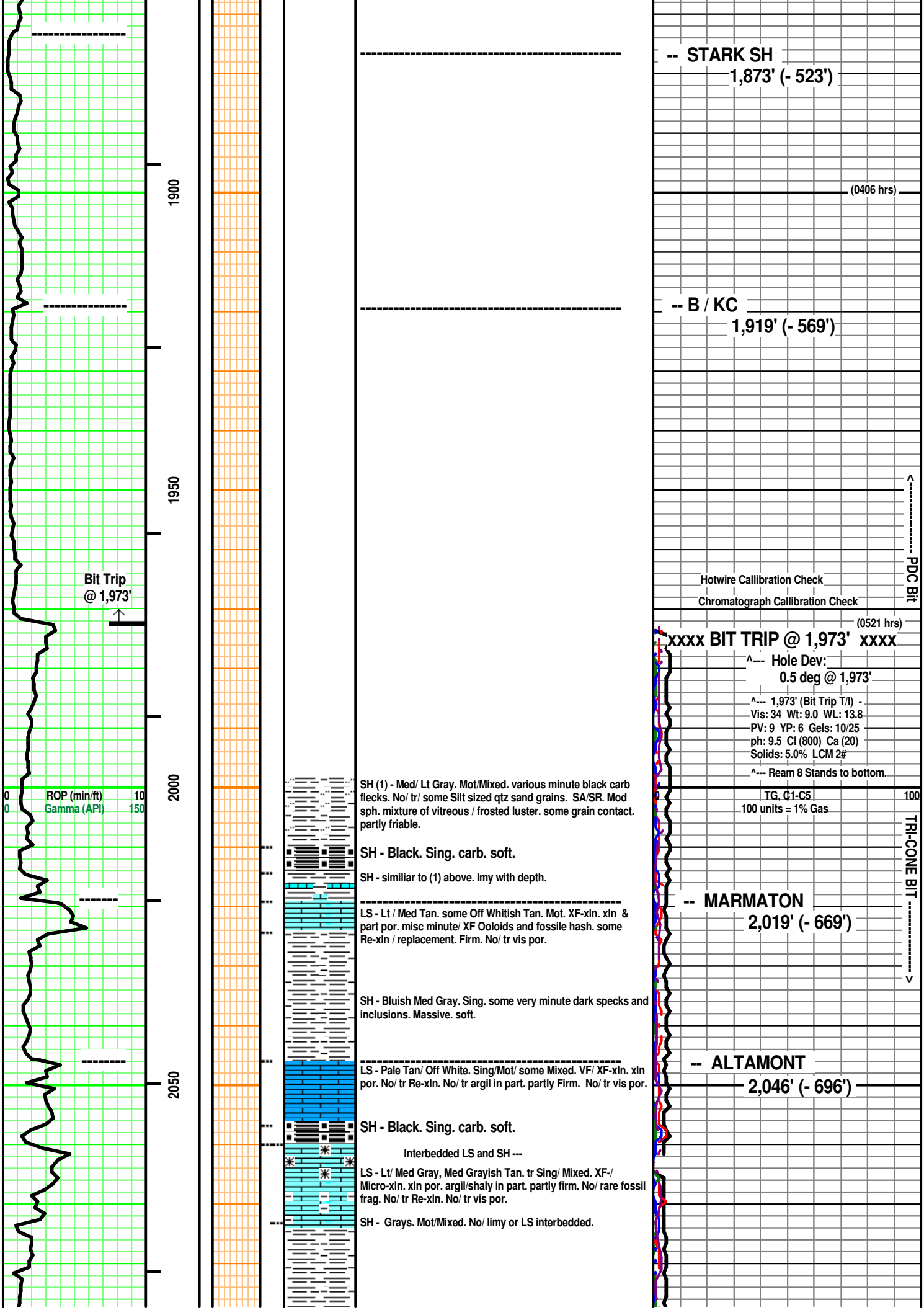
OTHER SYMBOLS

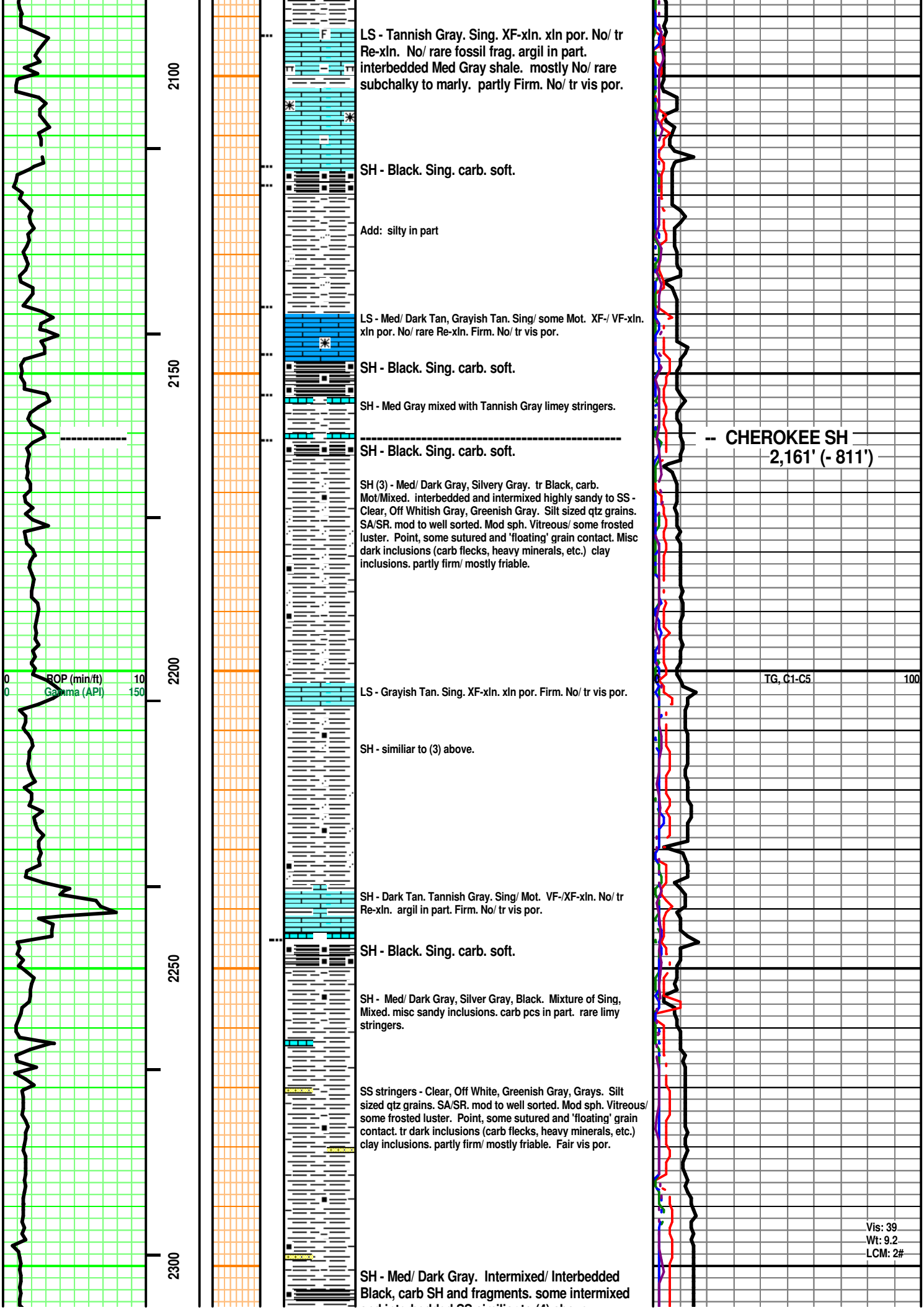
ACTIVITY
- Lost circluation
- Circulate for sam

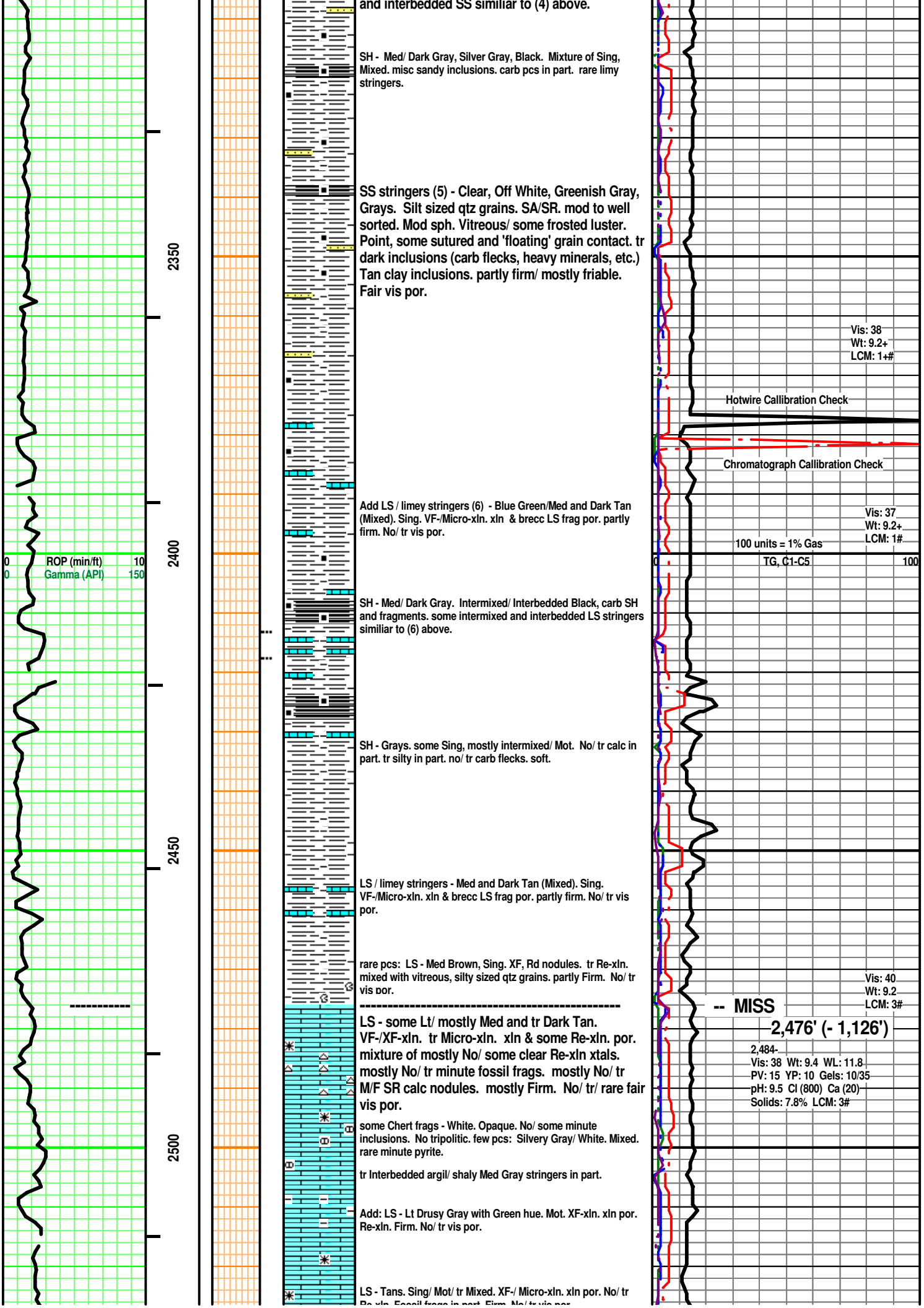
EVENT
- Circulate for sam
- Rtd
- Trip
- Connection
- Rft
- Sidewall

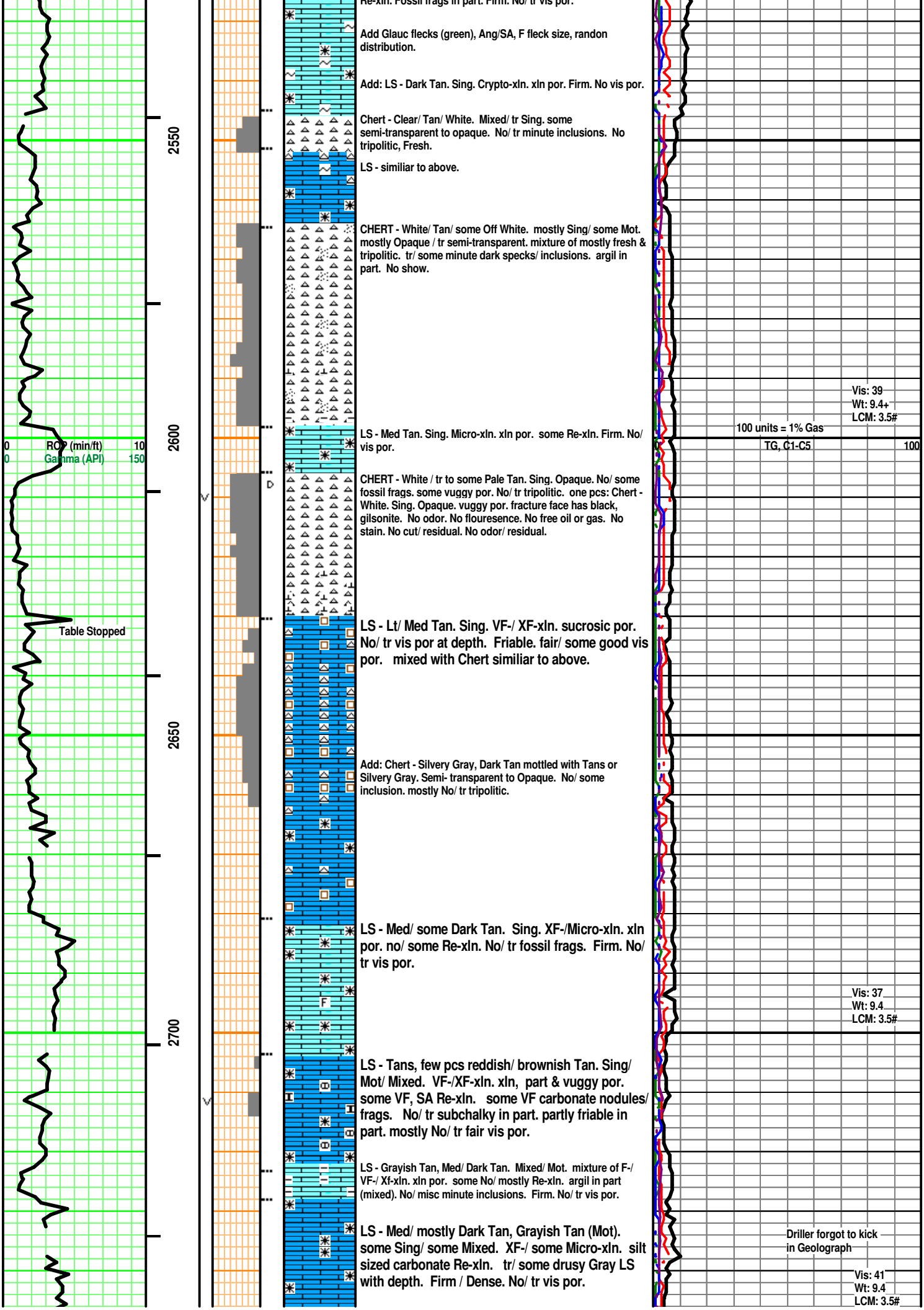
Curve Track 1	Depth	Porosity Type	Porosity	Shows	Lithology	Geological Descriptions	TG, C1-C5
ROP (min/ft) Gamma (API)			24% 18% 12% 6%				TG (Units) C1 (units) C2 (units) C3 (units) C4 (units) C5 (units)

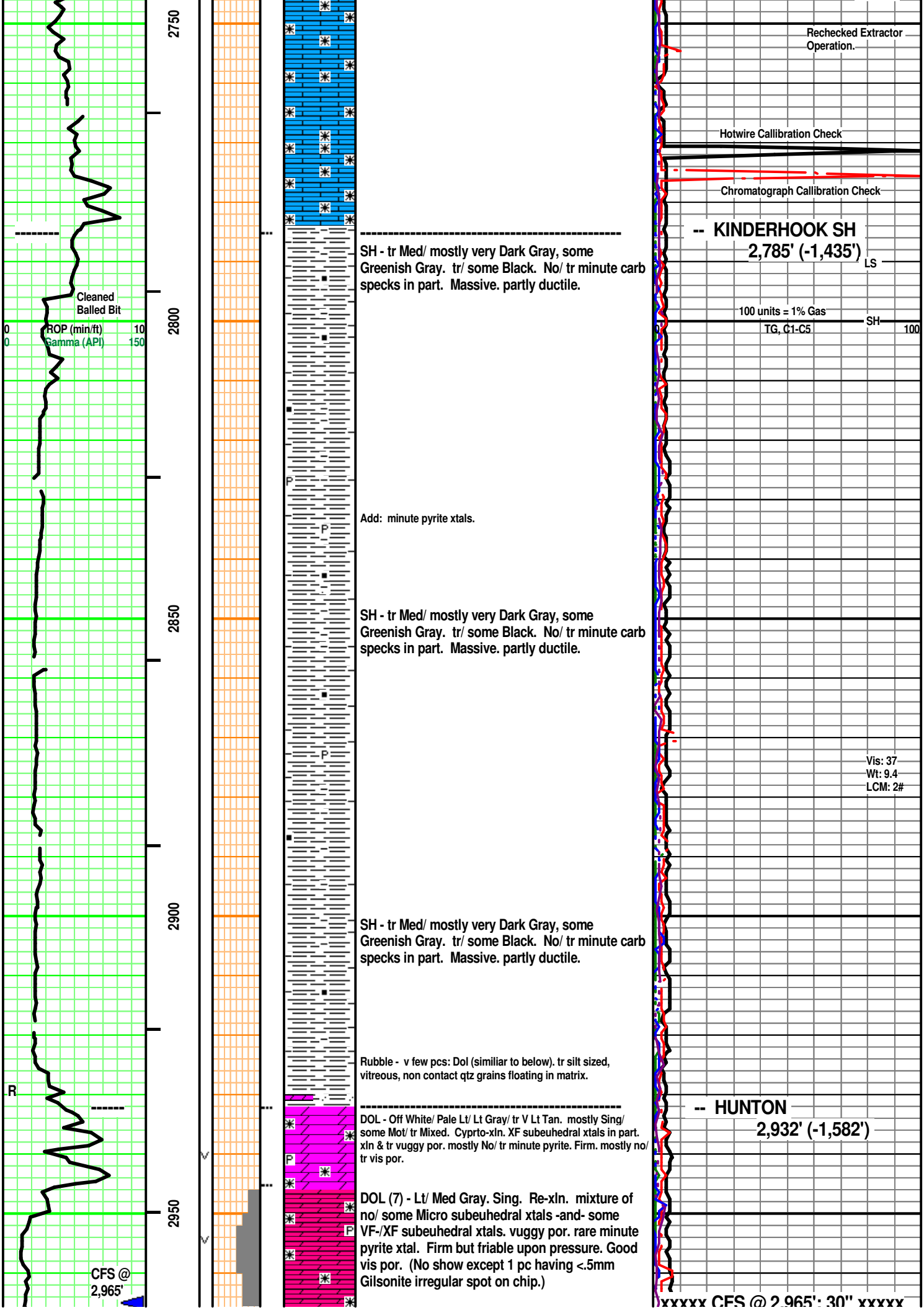


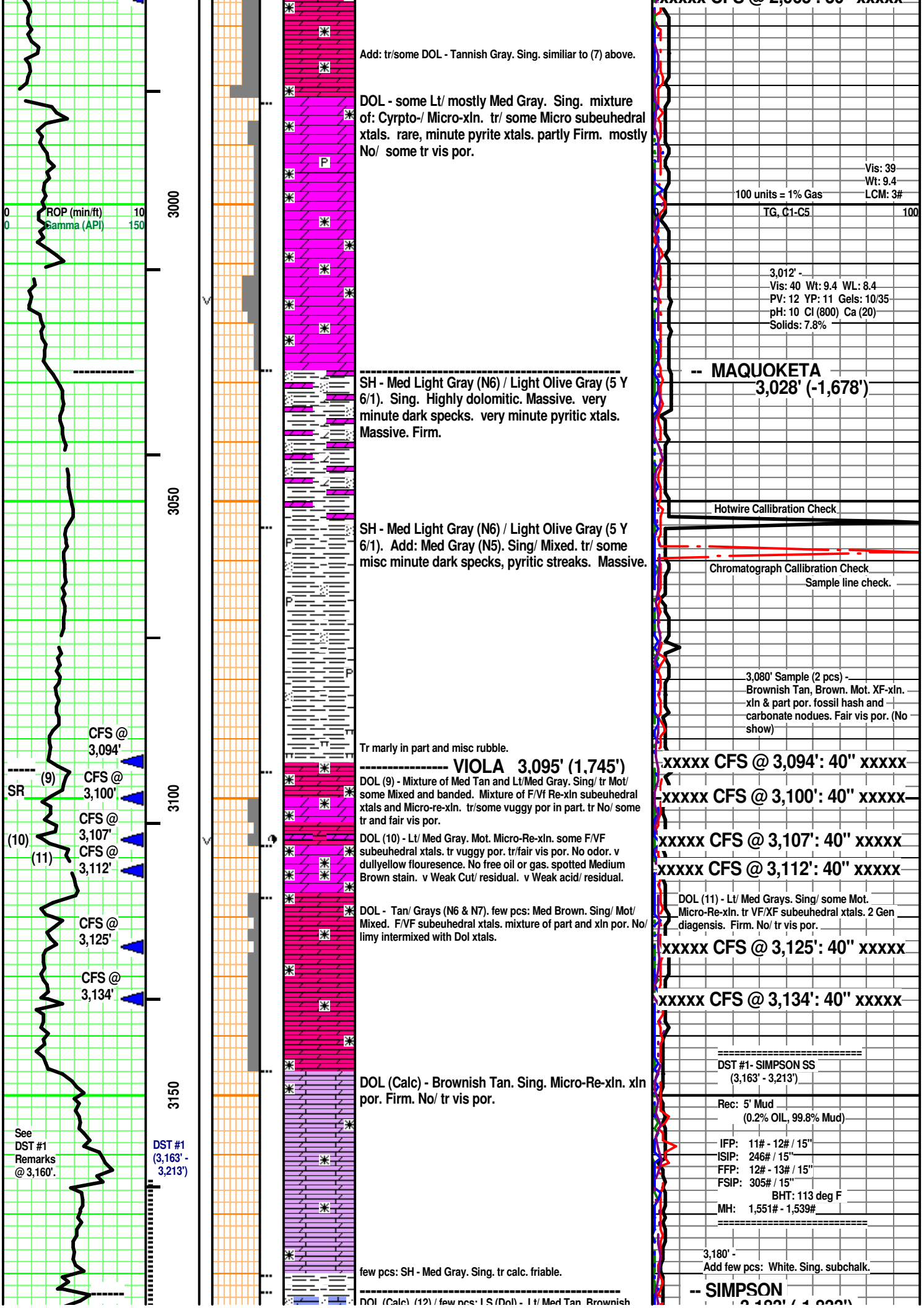

-- STARK SH
1,873' (- 523')
(0406 hrs)
-- B / KC
1,919' (- 569')
PDC Bit
Hotwire Callibration Check
Chromatograph Callibration Check
(0521 hrs)
xxxx BIT TRIP @ 1,973' xxxx
^--- Hole Dev:
0.5 deg @ 1,973'
^--- 1,973' (Bit Trip T/I) -
Vis: 34 Wt: 9.0 WL: 13.8
PV: 9 YP: 6 Gels: 10/25
ph: 9.5 Cl (800) Ca (20)
Solids: 5.0% LCM 2#
^--- Ream 8 Stands to bottom.
Bit Trip
@ 1,973'
1900
1950
2000
2050
0 ROP (min/ft) 10
0 Gamma (API) 150
0 TG, C1-C5 100
100 units = 1% Gas
TRI-CONE BIT
-- MARMATON
2,019' (- 669')
-- ALTAMONT
2,046' (- 696')
SH (1) - Med/ Lt Gray. Mot/Mixed. various minute black carb flecks. No/ tr/ some Silt sized qtz sand grains. SA/SR. Mod sph. mixture of vitreous / frosted luster. some grain contact. partly friable.
SH - Black. Sing. carb. soft.
SH - similiar to (1) above. lmy with depth.
LS - Lt / Med Tan. some Off Whitish Tan. Mot. XF-xln. xln & part por. misc minute/ XF Ooloids and fossile hash. some Re-xln / replacement. Firm. No/ tr vis por.
SH - Bluish Med Gray. Sing. some very minute dark specks and inclusions. Massive. soft.
LS - Pale Tan/ Off White. Sing/Mot/ some Mixed. VF/ XF-xln. xln por. No/ tr Re-xln. No/ tr argil in part. partly Firm. No/ tr vis por.
SH - Black. Sing. carb. soft.
Interbedded LS and SH ---
LS - Lt/ Med Gray, Med Grayish Tan. tr Sing/ Mixed. XF-/ Micro-xln. xln por. argil/shaly in part. partly firm. No/ rare fossil frag. No/ tr Re-xln. No/ tr vis por.
SH - Grays. Mot/Mixed. No/ limy or LS interbedded.

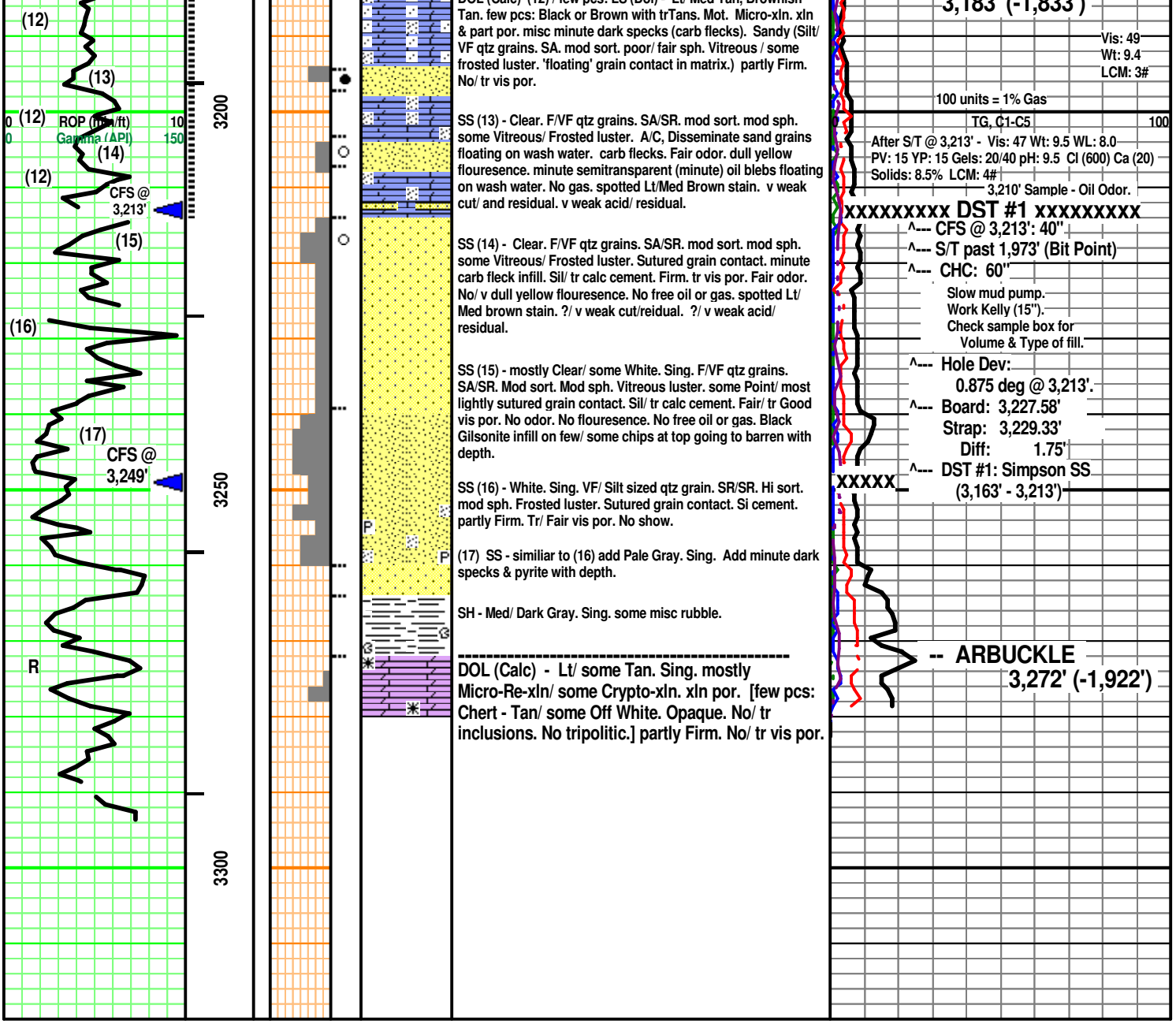

2100
2150
2200
2250
2300
0 ROP (min/ft) 10
0 Gamma (API) 150
LS - Tannish Gray. Sing. XF-xln. xln por. No/ tr Re-xln. No/ rare fossil frag. argil in part. interbedded Med Gray shale. mostly No/ rare subchalky to marly. partly Firm. No/ tr vis por.
SH - Black. Sing. carb. soft.
Add: silty in part
LS - Med/ Dark Tan, Grayish Tan. Sing/ some Mot. XF-/ VF-xln. xln por. No/ rare Re-xln. Firm. No/ tr vis por.
SH - Black. Sing. carb. soft.
SH - Med Gray mixed with Tannish Gray limey stringers.
SH - Black. Sing. carb. soft.
-- CHEROKEE SH
2,161' (- 811')
SH (3) - Med/ Dark Gray, Silvery Gray. tr Black, carb. Mot/Mixed. interbedded and intermixed highly sandy to SS - Clear, Off Whitish Gray, Greenish Gray. Silt sized qtz grains. SA/SR. mod to well sorted. Mod sph. Vitreous/ some frosted luster. Point, some sutured and 'floating' grain contact. Misc dark inclusions (carb flecks, heavy minerals, etc.) clay inclusions. partly firm/ mostly friable.
TG, C1-C5 100
LS - Grayish Tan. Sing. XF-xln. xln por. Firm. No/ tr vis por.
SH - similiar to (3) above.
SH - Dark Tan. Tannish Gray. Sing/ Mot. VF-/XF-xln. No/ tr Re-xln. argil in part. Firm. No/ tr vis por.
SH - Black. Sing. carb. soft.
SH - Med/ Dark Gray, Silver Gray, Black. Mixture of Sing, Mixed. misc sandy inclusions. carb pcs in part. rare limy stringers.
SS stringers - Clear, Off White, Greenish Gray, Grays. Silt sized qtz grains. SA/SR. mod to well sorted. Mod sph. Vitreous/ some frosted luster. Point, some sutured and 'floating' grain contact. tr dark inclusions (carb flecks, heavy minerals, etc.) clay inclusions. partly firm/ mostly friable. Fair vis por.
Vis: 39
Wt: 9.2
LCM: 2#
SH - Med/ Dark Gray. Intermixed/ Interbedded Black, carb SH and fragments. some intermixed


and interbedded SS similiar to (4) above.
SH - Med/ Dark Gray, Silver Gray, Black. Mixture of Sing, Mixed. misc sandy inclusions. carb pcs in part. rare limy stringers.
SS stringers (5) - Clear, Off White, Greenish Gray, Grays. Silt sized qtz grains. SA/SR. mod to well sorted. Mod sph. Vitreous/ some frosted luster. Point, some sutured and 'floating' grain contact. tr dark inclusions (carb flecks, heavy minerals, etc.) Tan clay inclusions. partly firm/ mostly friable. Fair vis por.
Vis: 38
Wt: 9.2+
LCM: 1+#
Hotwire Callibration Check
Chromatograph Callibration Check
Add LS / limey stringers (6) - Blue Green/Med and Dark Tan (Mixed). Sing. VF-/Micro-xln. xln & brecc LS frag por. partly firm. No/ tr vis por.
Vis: 37
Wt: 9.2+
LCM: 1#
100 units = 1% Gas
0
TG, C1-C5
100
0 ROP (min/ft) 10
0 Gamma (API) 150
2350
2400
SH - Med/ Dark Gray. Intermixed/ Interbedded Black, carb SH and fragments. some intermixed and interbedded LS stringers similiar to (6) above.
SH - Grays. some Sing, mostly intermixed/ Mot. No/ tr calc in part. tr silty in part. no/ tr carb flecks. soft.
2450
LS / limey stringers - Med and Dark Tan (Mixed). Sing. VF-/Micro-xln. xln & brecc LS frag por. partly firm. No/ tr vis por.
rare pcs: LS - Med Brown, Sing. XF, Rd nodules. tr Re-xln. mixed with vitreous, silty sized qtz grains. partly Firm. No/ tr vis por.
Vis: 40
Wt: 9.2
LCM: 3#
-- MISS
2,476' (- 1,126')
2,484-
Vis: 38 Wt: 9.4 WL: 11.8
PV: 15 YP: 10 Gels: 10/35
pH: 9.5 Cl (800) Ca (20)
Solids: 7.8% LCM: 3#
LS - some Lt/ mostly Med and tr Dark Tan. VF-/XF-xln. tr Micro-xln. xln & some Re-xln. por. mixture of mostly No/ some clear Re-xln xtals. mostly No/ tr minute fossil frags. mostly No/ tr M/F SR calc nodules. mostly Firm. No/ tr/ rare fair vis por.
2500
some Chert frags - White. Opaque. No/ some minute inclusions. No tripolitic. few pcs: Silvery Gray/ White. Mixed. rare minute pyrite.
tr Interbedded argil/ shaly Med Gray stringers in part.
Add: LS - Lt Drusy Gray with Green hue. Mot. XF-xln. xln por. Re-xln. Firm. No/ tr vis por.
LS - Tans. Sing/ Mot/ tr Mixed. XF-/ Micro-xln. xln por. No/ tr


Re-xln. Fossil frags in part. Firm. No/ tr vis por.
Add Glauc flecks (green), Ang/SA, F fleck size, randon distribution.
Add: LS - Dark Tan. Sing. Crypto-xln. xln por. Firm. No vis por.
Chert - Clear/ Tan/ White. Mixed/ tr Sing. some semi-transparent to opaque. No/ tr minute inclusions. No tripolitic, Fresh.
LS - similiar to above.
CHERT - White/ Tan/ some Off White. mostly Sing/ some Mot. mostly Opaque / tr semi-transparent. mixture of mostly fresh & tripolitic. tr/ some minute dark specks/ inclusions. argil in part. No show.
Vis: 39
Wt: 9.4+
LCM: 3.5#
100 units = 1% Gas
0
TG, C1-C5
100
2550
2600
0
ROP (min/ft)
10
0
Gamma (API)
150
LS - Med Tan. Sing. Micro-xln. xln por. some Re-xln. Firm. No/ vis por.
CHERT - White / tr to some Pale Tan. Sing. Opaque. No/ some fossil frags. some vuggy por. No/ tr tripolitic. one pcs: Chert - White. Sing. Opaque. vuggy por. fracture face has black, gilsonite. No odor. No flouresence. No free oil or gas. No stain. No cut/ residual. No odor/ residual.
Table Stopped
LS - Lt/ Med Tan. Sing. VF-/ XF-xln. sucrosic por. No/ tr vis por at depth. Friable. fair/ some good vis por. mixed with Chert similiar to above.
2650
Add: Chert - Silvery Gray, Dark Tan mottled with Tans or Silvery Gray. Semi- transparent to Opaque. No/ some inclusion. mostly No/ tr tripolitic.
LS - Med/ some Dark Tan. Sing. XF-/Micro-xln. xln por. no/ some Re-xln. No/ tr fossil frags. Firm. No/ tr vis por.
Vis: 37
Wt: 9.4
LCM: 3.5#
2700
LS - Tans, few pcs reddish/ brownish Tan. Sing/ Mot/ Mixed. VF-/XF-xln. xln, part & vuggy por. some VF, SA Re-xln. some VF carbonate nodules/ frags. No/ tr subchalky in part. partly friable in part. mostly No/ tr fair vis por.
LS - Grayish Tan, Med/ Dark Tan. Mixed/ Mot. mixture of F-/ VF-/ Xf-xln. xln por. some No/ mostly Re-xln. argil in part (mixed). No/ misc minute inclusions. Firm. No/ tr vis por.
LS - Med/ mostly Dark Tan, Grayish Tan (Mot). some Sing/ some Mixed. XF-/ some Micro-xln. silt sized carbonate Re-xln. tr/ some drusy Gray LS with depth. Firm / Dense. No/ tr vis por.
Driller forgot to kick in Geolograph
Vis: 41
Wt: 9.4
LCM: 3.5#


2750
2800
2850
2900
2950
Cleaned
Balled Bit
0
ROP (min/ft)
10
0
Gamma (API)
150
R
CFS @
2,965'
SH - tr Med/ mostly very Dark Gray, some Greenish Gray. tr/ some Black. No/ tr minute carb specks in part. Massive. partly ductile.
Add: minute pyrite xtals.
SH - tr Med/ mostly very Dark Gray, some Greenish Gray. tr/ some Black. No/ tr minute carb specks in part. Massive. partly ductile.
SH - tr Med/ mostly very Dark Gray, some Greenish Gray. tr/ some Black. No/ tr minute carb specks in part. Massive. partly ductile.
Rubble - v few pcs: Dol (similiar to below). tr silt sized, vitreous, non contact qtz grains floating in matrix.
DOL - Off White/ Pale Lt/ Lt Gray/ tr V Lt Tan. mostly Sing/ some Mot/ tr Mixed. Cyprto-xln. XF subeuhedral xtals in part. xln & tr vuggy por. mostly No/ tr minute pyrite. Firm. mostly no/ tr vis por.
DOL (7) - Lt/ Med Gray. Sing. Re-xln. mixture of no/ some Micro subeuhedral xtals -and- some VF-/XF subeuhedral xtals. vuggy por. rare minute pyrite xtal. Firm but friable upon pressure. Good vis por. (No show except 1 pc having <.5mm Gilsonite irregular spot on chip.)
Rechecked Extractor Operation.
Hotwire Callibration Check
Chromatograph Callibration Check
-- KINDERHOOK SH
2,785' (-1,435')
LS
100 units = 1% Gas
TG, C1-C5
SH
0
100
Vis: 37
Wt: 9.4
LCM: 2#
-- HUNTON
2,932' (-1,582')
xxxxx CFS @ 2,965': 30" xxxxx


0 ROP (min/ft) 10
0 Gamma (API) 150
3000
3050
3100
3150
Add: tr/some DOL - Tannish Gray. Sing. similiar to (7) above.
DOL - some Lt/ mostly Med Gray. Sing. mixture of: Cyrpto-/ Micro-xln. tr/ some Micro subeuhedral xtals. rare, minute pyrite xtals. partly Firm. mostly No/ some tr vis por.
SH - Med Light Gray (N6) / Light Olive Gray (5 Y 6/1). Sing. Highly dolomitic. Massive. very minute dark specks. very minute pyritic xtals. Massive. Firm.
SH - Med Light Gray (N6) / Light Olive Gray (5 Y 6/1). Add: Med Gray (N5). Sing/ Mixed. tr/ some misc minute dark specks, pyritic streaks. Massive.
Tr marly in part and misc rubble.
VIOLA 3,095' (1,745')
DOL (9) - Mixture of Med Tan and Lt/Med Gray. Sing/ tr Mot/ some Mixed and banded. Mixture of F/Vf Re-xln subeuhedral xtals and Micro-re-xln. tr/some vuggy por in part. tr No/ some tr and fair vis por.
DOL (10) - Lt/ Med Gray. Mot. Micro-Re-xln. some F/VF subeuhedral xtals. tr vuggy por. tr/fair vis por. No odor. v dullyellow flouresence. No free oil or gas. spotted Medium Brown stain. v Weak Cut/ residual. v Weak acid/ residual.
DOL - Tan/ Grays (N6 & N7). few pcs: Med Brown. Sing/ Mot/ Mixed. F/VF subeuhedral xtals. mixture of part and xln por. No/ limy intermixed with Dol xtals.
DOL (Calc) - Brownish Tan. Sing. Micro-Re-xln. xln por. Firm. No/ tr vis por.
few pcs: SH - Med Gray. Sing. tr calc. friable.
DOL (Calc) (12) / few pcs: LS (Dol) - Lt/ Med Tan. Brownish
CFS @ 3,094'
(9)
SR
CFS @ 3,100'
CFS @ 3,107'
(10)
(11)
CFS @ 3,112'
CFS @ 3,125'
CFS @ 3,134'
See DST #1 Remarks @ 3,160'.
DST #1 (3,163' - 3,213')
Vis: 39
Wt: 9.4
LCM: 3#
100 units = 1% Gas
TG, C1-C5
3,012' -
Vis: 40 Wt: 9.4 WL: 8.4
PV: 12 YP: 11 Gels: 10/35
pH: 10 Cl (800) Ca (20)
Solids: 7.8%
-- MAQUOKETA
3,028' (-1,678')
Hotwire Callibration Check
Chromatograph Callibration Check
Sample line check.
3,080' Sample (2 pcs) -
Brownish Tan, Brown. Mot. XF-xln. xln & part por. fossil hash and carbonate nodues. Fair vis por. (No show)
xxxxx CFS @ 3,094': 40" xxxxx
xxxxx CFS @ 3,100': 40" xxxxx
xxxxx CFS @ 3,107': 40" xxxxx
xxxxx CFS @ 3,112': 40" xxxxx
DOL (11) - Lt/ Med Grays. Sing/ some Mot. Micro-Re-xln. tr VF/XF subeuhedral xtals. 2 Gen diagensis. Firm. No/ tr vis por.
xxxxx CFS @ 3,125': 40" xxxxx
xxxxx CFS @ 3,134': 40" xxxxx
DST #1- SIMPSON SS
(3,163' - 3,213')
Rec: 5' Mud
(0.2% OIL, 99.8% Mud)
IFP: 11# - 12# / 15"
ISIP: 246# / 15"
FFP: 12# - 13# / 15"
FSIP: 305# / 15"
BHT: 113 deg F
MH: 1,551# - 1,539#
3,180' -
Add few pcs: White. Sing. subchalk.
-- SIMPSON


(12)
(13)
(12)
ROP (min/ft) 10
0
Gamma (API) 150
(14)
(12)
CFS @
3,213'
(15)
(16)
(17)
CFS @
3,249'
R
3200
3250
3300
P
P
DOL (Calc) (12) few pcs: LS (Dol) Lt/ Med Tan, Brownish Tan. few pcs: Black or Brown with trTans. Mot. Micro-xln. xln & part por. misc minute dark specks (carb flecks). Sandy (Silt/ VF qtz grains. SA. mod sort. poor/ fair sph. Vitreous / some frosted luster. 'floating' grain contact in matrix.) partly Firm. No/ tr vis por.
SS (13) - Clear. F/VF qtz grains. SA/SR. mod sort. mod sph. some Vitreous/ Frosted luster. A/C, Disseminate sand grains floating on wash water. carb flecks. Fair odor. dull yellow flouresence. minute semitransparent (minute) oil blebs floating on wash water. No gas. spotted Lt/Med Brown stain. v weak cut/ and residual. v weak acid/ residual.
SS (14) - Clear. F/VF qtz grains. SA/SR. mod sort. mod sph. some Vitreous/ Frosted luster. Sutured grain contact. minute carb fleck infill. Sil/ tr calc cement. Firm. tr vis por. Fair odor. No/ v dull yellow flouresence. No free oil or gas. spotted Lt/ Med brown stain. ?/ v weak cut/reidual. ?/ v weak acid/ residual.
SS (15) - mostly Clear/ some White. Sing. F/VF qtz grains. SA/SR. Mod sort. Mod sph. Vitreous luster. some Point/ most lightly sutured grain contact. Sil/ tr calc cement. Fair/ tr Good vis por. No odor. No flouresence. No free oil or gas. Black Gilsonite infill on few/ some chips at top going to barren with depth.
SS (16) - White. Sing. VF/ Silt sized qtz grain. SR/SR. Hi sort. mod sph. Frosted luster. Sutured grain contact. Si cement. partly Firm. Tr/ Fair vis por. No show.
(17) SS - similiar to (16) add Pale Gray. Sing. Add minute dark specks & pyrite with depth.
SH - Med/ Dark Gray. Sing. some misc rubble.
DOL (Calc) - Lt/ some Tan. Sing. mostly Micro-Re-xln/ some Crypto-xln. xln por. [few pcs: Chert - Tan/ some Off White. Opaque. No/ tr inclusions. No tripolitic.] partly Firm. No/ tr vis por.
3,183' (-1,833')
Vis: 49
Wt: 9.4
LCM: 3#
100 units = 1% Gas
TG, C1-C5
0
100
After S/T @ 3,213' - Vis: 47 Wt: 9.5 WL: 8.0
PV: 15 YP: 15 Gels: 20/40 pH: 9.5 Cl (600) Ca (20)
Solids: 8.5% LCM: 4#
3,210' Sample - Oil Odor.
xxxxxxxxx DST #1 xxxxxxxxx
^--- CFS @ 3,213': 40"
^--- S/T past 1,973' (Bit Point)
^--- CHC: 60"
Slow mud pump.
Work Kelly (15").
Check sample box for
Volume & Type of fill.
^--- Hole Dev:
0.875 deg @ 3,213'.
^--- Board: 3,227.58'
Strap: 3,229.33'
Diff: 1.75'
^--- DST #1: Simpson SS
(3,163' - 3,213')
xxxxx
-- ARBUCKLE
3,272' (-1,922')

Company: Fletcher Operating, LLC

Lease: Amos #12-6

SEC: 6 TWN: 16S RNG: 9E
County: MORRIS
State: Kansas
Drilling Contractor: C & G Drilling Company - Rig 1
Elevation: 1346 EGL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 252

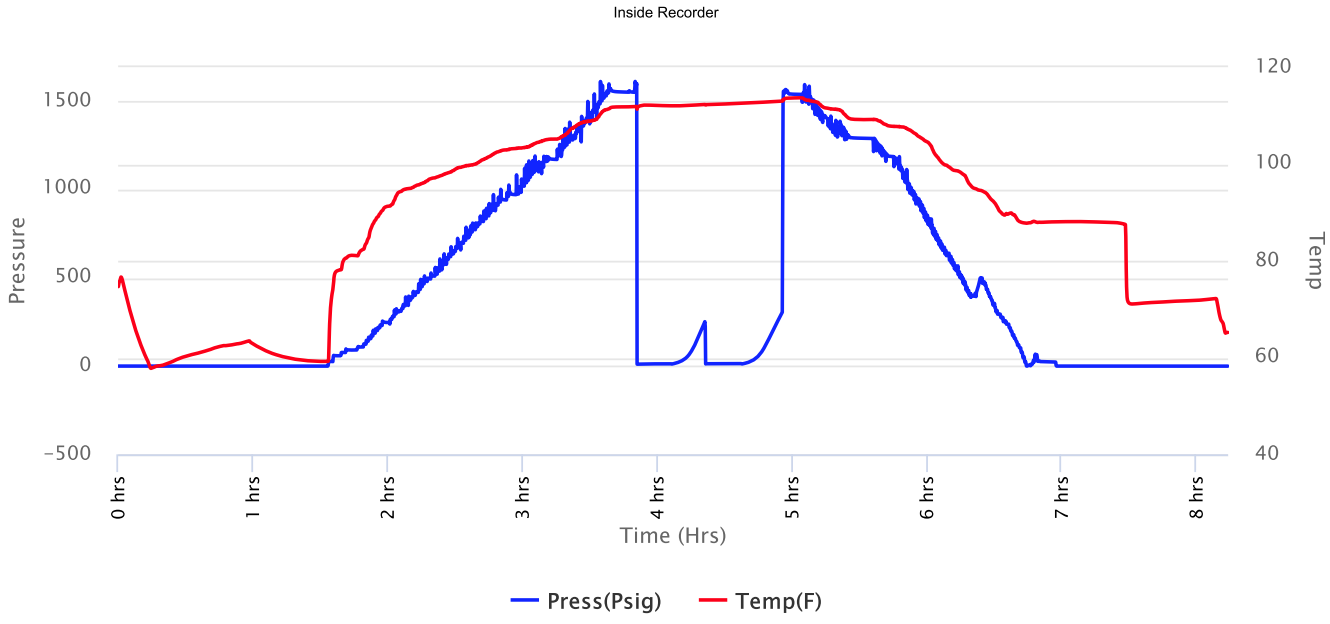
Operation:
Uploading recovery & pressures

DATE
October
25
2018

DST #1 **Formation: Simpson** **Test Interval: 3163 - 3213'** **Total Depth: 3213'**

Time On: 13:36 10/25 Time Off: 21:37 10/25
Time On Bottom: 17:20 10/25 Time Off Bottom: 18:20 10/25

Electronic Volume Estimate:	1st Open	1st Close	2nd Open	2nd Close
4'	Minutes: 15 Current Reading: 0" at 15 min Max Reading: .25"	Minutes: 15 Current Reading: 0" at 15 min Max Reading: 0"	Minutes: 15 Current Reading: 0" at 15 min Max Reading: 0"	Minutes: 15 Current Reading: 0" at 15 min Max Reading: 0"



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Recovered

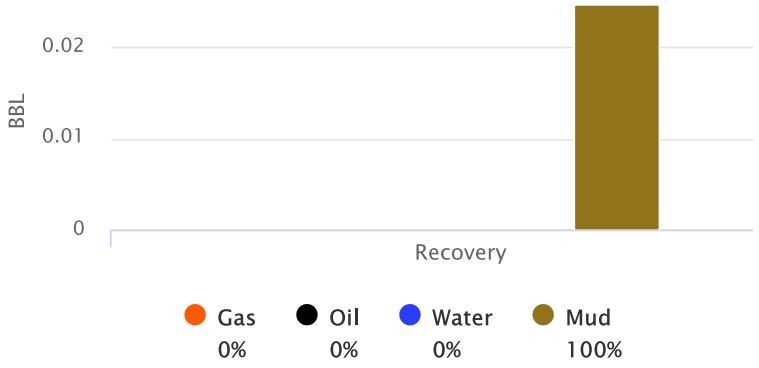
Foot	BBLS	Description of Fluid	Gas %	Oil %	Water %	Mud %
5	0.0246	M	0	0	0	100

Total Recovered: 5 ft
Total Barrels Recovered: 0.0246

Reversed Out
NO

Initial Hydrostatic Pressure	1551	PSI
Initial Flow	11 to 12	PSI
Initial Closed in Pressure	**246**	**PSI**
Final Flow Pressure	13 to 13	PSI
Final Closed in Pressure	**305**	**PSI**
Final Hydrostatic Pressure	1539	PSI
Temperature	113	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance



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BUCKET MEASUREMENT:
1st Open: Weak 1/4 decreasing in 3 mim dead in 10 min.
1st Close: NO BLOW BACK
2nd Open: NO BLOW
2nd Close: NO BLOW BACK

REMARKS:

Tool Sample: 0% Gas .2% Oil 0% Water 99.8% Mud

Company: Fletcher Operating, LLC

Lease: Amos #12-6

SEC: 6 TWN: 16S RNG: 9E
County: MORRIS
State: Kansas
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Down Hole Makeup

Heads Up: 27.24 FT

Drill Pipe: 2980.8 FT
ID-3

Weight Pipe: FT
ID-2 7/8

Collars: 176.87 FT
ID-2 1/4

Test Tool: 33.57 FT
ID-3 1/2-FH
Jars
Safety Joint

Total Anchor: 50

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 24 FT
4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT
ID-3

Change Over: FT

Perforations: (below): 25 FT
4 1/2-FH

Packer 1: 3158 FT

Packer 2: 3163 FT

Top Recorder: 3147.42 FT

Bottom Recorder: 3189 FT

Well Bore Size: 7 7/8

Surface Choke: 1"

Bottom Choke: 5/8"

Company: Fletcher Operating, LLC

Lease: Amos #12-6

SEC: 6 TWN: 16S RNG: 9E
County: MORRIS
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Time On Bottom: 17:20 10/25 Time Off Bottom: 18:20 10/25

Mud Properties

Mud Type: CHEMICAL **Weight:** 9.5 **Viscosity:** 47 **Filtrate:** 8.0 **Chlorides:** 600 ppm

810 E 7TH
PO Box 92
EUREKA, KS 67045
(620) 583-5561

ELITE
CEMENTING & ACID SERVICE, LLC

Cement or Acid Field Report
Ticket No. **4179**
Foreman David Gardner
Camp Eureka

API # 15-127-20600

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
10-20-18		Amos # 12-6	6	16 S.	9E	Morris	KS

Customer	Safety Meeting	Unit #	Driver	Unit #	Driver
Fletcher Petroleum CO. LLC	DG AM ZA	104	Alan M.		
Mailing Address: P.O. Box 2147		113	Zevi A.		
City: Fairhope / State: AL / Zip Code: 36533					

Job Type Surface — Hole Depth 262' — Slurry Vol. 34 Bbl — Tubing
Casing Depth 252' G.L. — Hole Size 12¼ — Slurry Wt. 14.8# — Drill Pipe
Casing Size & Wt. 8⅝ 24# — Cement Left in Casing 15' — Water Gal/SK — Other
Displacement 15.7 Bbl — Displacement PSI — Bump Plug to — BPM

Remarks: Safety meeting. Rig up to 8⅝ casing. Break circulation w/ 15 Bbl fresh water. Mixed 140 SKS Class 'A' Cement w/ 3% Cacl2 & 2% Gel @ 14.8#/gal, yield 1.35 = 34 Bbl Slurry. Displace w/ 15.7 Bbl fresh water. Shut down. Close well in. Good circulation at all times. Good cement returns to surface. 7 Bbls good cement slurry to pit. Job Complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C101	1	Pump Charge	890.00	890.00
C107	50	Mileage	4.20	210.00
C200	140 SKS	Class 'A' Cement	15.75	2205.00
C205	400 lbs.	Calcium Chloride @ 3%	.63	252.00
C206	250 lbs.	Gel @ 2%	.21	52.50
C108B	6.58 Tons	Bulk Truck Ton Mileage	1.40	460.60
		Thank You		
			Sub Total	4070.10
			Less 5%	212.91
		7.5%	Sales Tax	188.21
			Total	4045.40

Authorization R Fitch Title

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.