Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1261951

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 3882
Name: Samuel Gary Jr. & Associates, Inc.
Address 1: 1515 WYNKOOP, STE 700
Address 2:
City: DENVER State: CO Zip: 80202 + __ __ __ __
Contact Person: GABE D'ARTHENAY
Phone: (303) 831-4673
CONTRACTOR: License # 33575
Name: WW Drilling, LLC
Wellsite Geologist: JEFF KAMPS
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
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

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

5/1/2015	5/6/2015	5/7/2015
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-179-21404-00-00
Spot Description:
NW SE SE NW Sec. 33 Twp. 10 S. R. 30 ☐ East ☑ West
2050 Feet from ☑ North / ☐ South Line of Section
2030 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: Sheridan
Lease Name: BIXENMAN Well #: 1-33
Field Name:
Producing Formation: N/A
Elevation: Ground: 2952 Kelly Bushing: 2957
Total Vertical Depth: 4611 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 259 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: 29000 ppm Fluid volume: 0 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: 08/21/2015
☑ **Confidential Release Date:** 08/20/2017
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 08/24/2015

1261951

Operator Name: Samuel Gary Jr. & Associates, Inc. Lease Name: BIXENMAN Well #: 1-33

Sec. 33 Twp. 10 S. R. 30 ☐ East ☑ West County: Sheridan

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

DEN-NEUT
INDUCTION
MICRO

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

Name	Top	Datum
TOPEKA	3752	-795
HEEBNER	3969	-1012
LANSING	4008	-1051
MISSISSIPPIAN	4565	-1608

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	23	259	COMMON CLASS A	200	2% GEL, 3% CC

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	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	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

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)* _____

PRODUCTION INTERVAL:

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	BIXENMAN 1-33
Doc ID	1261951

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	23	259	COMMON CLASS A	200	2% GEL, 3% CC

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 No. 1264

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-1-15	33	10	30	Sheridan	Kansas		300 PM

Location Grinnell Ks. 3W 2N ½E ¼S

Lease Bixenman Well No. 1-33

Owner

To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Contractor W-W DRLG Rig # 10 "JD"

Type Job Cement Surface

Hole Size 12¼ T.D. 259'

Csg. 8 5/8 New Depth

~~Csg.~~ Size 23# CSG Depth

Charge To Sam Gary JR & ASSOC.

Street

City State

Tool Depth

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. 15' Shoe Joint

Cement Amount Ordered 200 SX Com. 3%cc 2%Gel ¼# Flo-Seal

Meas Line Displace 15½ BBL

EQUIPMENT

	No.		
Pumptrk 18		Cementer	Glenn
		Helper	Cody
Bulktrk 14	No.	Driver	Chad
		Driver	
Bulktrk	No.	Driver	
		Driver	

Common 200

Poz. Mix

Gel. 4

Calcium 7

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Set @ 259'
Recive Circ.
Cement w/ SX Com 3 2 ¼ Flo-Seal
Displ. 15½ BBL.
Shut in @ 300#.

Cement Did Circulate

Thanks!

Hulls

Salt

Flowseal 50#

Kol-Seal

Mud CLR 48

CFL-117 or CD110 CAF 38

Sand

Handling 250

Mileage

FLOAT EQUIPMENT

Guide Shoe

Centralizer X1

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge Surface

Mileage 13

Tax

Discount

Total Charge

X
Signature

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

No. 1266

Phone 785-483-2025 **Home Office P.O. Box 32 Russell, KS 67665**
Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-7-15	33	10	30	Sheridan	Kansas		10:15AM

Location Grinnell Ks. 3W 2N ½E ½S Into

Lease Bixenman Well No. 1-33

Contractor W-W Drlg. Rig #

Type Job Rotary Plug

Hole Size 7 7/8 T.D. 4610

Csg. 8 5/8 Surface Depth 259'

Tbg. Size Depth

Tool Depth

Cement Left in Csg. Shoe Joint

Meas Line Displace

EQUIPMENT

Pumptrk 18	No.	Cementer	Glenn G
		Helper	
Bulktrk 15	No.	Driver	Cody B.
		Driver	
Bulktrk	No.	Driver	Chad M.
		Driver	

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

50 SX @ 2520
100 SX @ 1600
50 SX @ 310
10 SX @ 40
30 SX @ Rathole

Thanks

X Signature

Owner

To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Sam Gary Jr. & Assoc. Inc.

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 240 SX 60/40 4% Gel ¼# Flo-Seal Per SX

Common	144
Poz. Mix	96
Gel.	9
Calcium	
Hulls	
Salt	
Flowseal	60#
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	249
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	Plug
Mileage	13
Tax	
Discount	
Total Charge	

DRILL STEM TEST REPORT

Samuel Gary Jr. & Ass., Inc.

1515 Wynkoop STE 700
Denver, CO 80202

ATTN: Clayton Camozzi

Sec. 33-10s-30w Sheridan,KS

Bixenman #1-33

Job Ticket: 62467 **DST#: 1**

Test Start: 2015.05.05 @ 07:04:00

GENERAL INFORMATION:

Formation: **LCK "I"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:24:50
Time Test Ended: 13:20:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Phillip Gage
Unit No: 77

Interval: 4163.00 ft (KB) To 4190.00 ft (KB) (TVD)
Total Depth: 4190.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

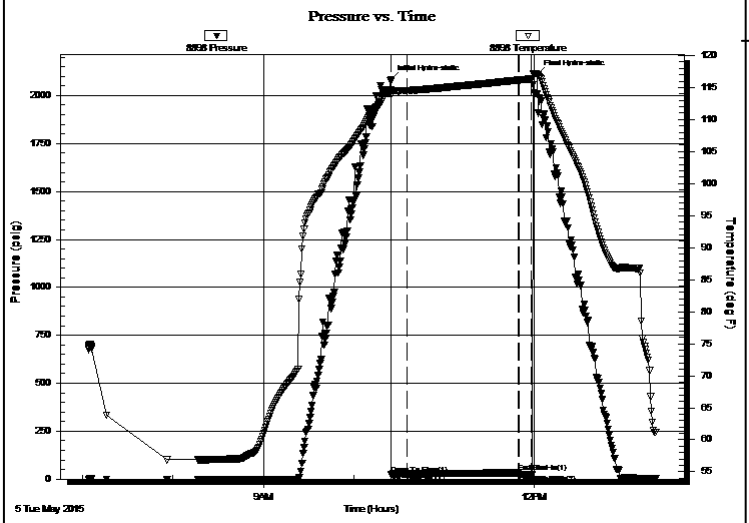
Reference Elevations: 2957.00 ft (KB)
2952.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8898 **Outside**

Press@RunDepth: 27.91 psig @ 4164.00 ft (KB)
Start Date: 2015.05.05 End Date: 2015.05.05
Start Time: 07:04:01 End Time: 13:20:30

Capacity: 8000.00 psig
Last Calib.: 2015.05.05
Time On Btm: 2015.05.05 @ 10:24:40
Time Off Btm: 2015.05.05 @ 12:02:00

TEST COMMENT: 10-IF-Built to 3/4"
75-ISI-No Return
5-FF-No Blow /Pulled Tool
FSI-N/A



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2080.85	114.73	Initial Hydro-static
1	23.96	113.83	Open To Flow (1)
11	27.91	114.51	Shut-In(1)
85	33.06	116.16	End Shut-In(1)
85	26.64	116.16	Open To Flow (2)
94	25.64	116.36	Shut-In(2)
98	2110.62	117.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	M, 100%m	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

Samuel Gary Jr. & Ass., Inc.

1515 Wynkoop STE 700
Denver, CO 80202

ATTN: Clayton Camozzi

Sec. 33-10s-30w Sheridan,KS

Bixenman #1-33

Job Ticket: 62467 **DST#: 1**

Test Start: 2015.05.05 @ 07:04:00

GENERAL INFORMATION:

Formation: **LCK "I"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:24:50
Time Test Ended: 13:20:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Phillip Gage
Unit No: 77

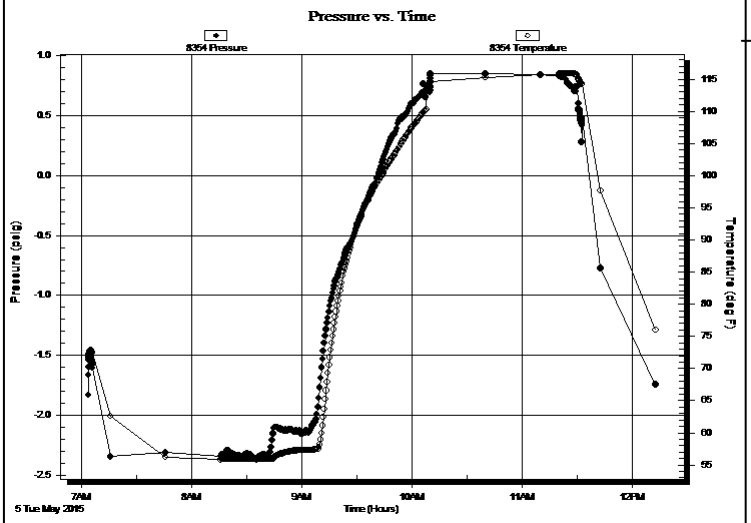
Interval: 4163.00 ft (KB) To 4190.00 ft (KB) (TVD)
Total Depth: 4190.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2957.00 ft (KB)
2952.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8354 **Fluid**
Press@RunDepth: psig @ 4130.00 ft (KB)
Start Date: 2015.05.05 End Date: 2015.05.05
Start Time: 07:04:01 End Time: 12:12:54

Capacity: 8000.00 psig
Last Calib.: 2015.05.05
Time On Btm:
Time Off Btm:

TEST COMMENT: 10-IF-Built to 3/4"
75-ISI-No Return
5-FF-No Blow /Pulled Tool
FSI-N/A



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
2.00	M, 100%m	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Ass., Inc.

1515 Wynkoop STE 700
Denver, CO 80202

ATTN: Clayton Camozzi

Sec. 33-10s-30w Sheridan,KS

Bixenman #1-33

Job Ticket: 62467 **DST#: 1**

Test Start: 2015.05.05 @ 07:04:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.60 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	750.00 ppm				
Filter Cake:	3.50 inches				

Recovery Information

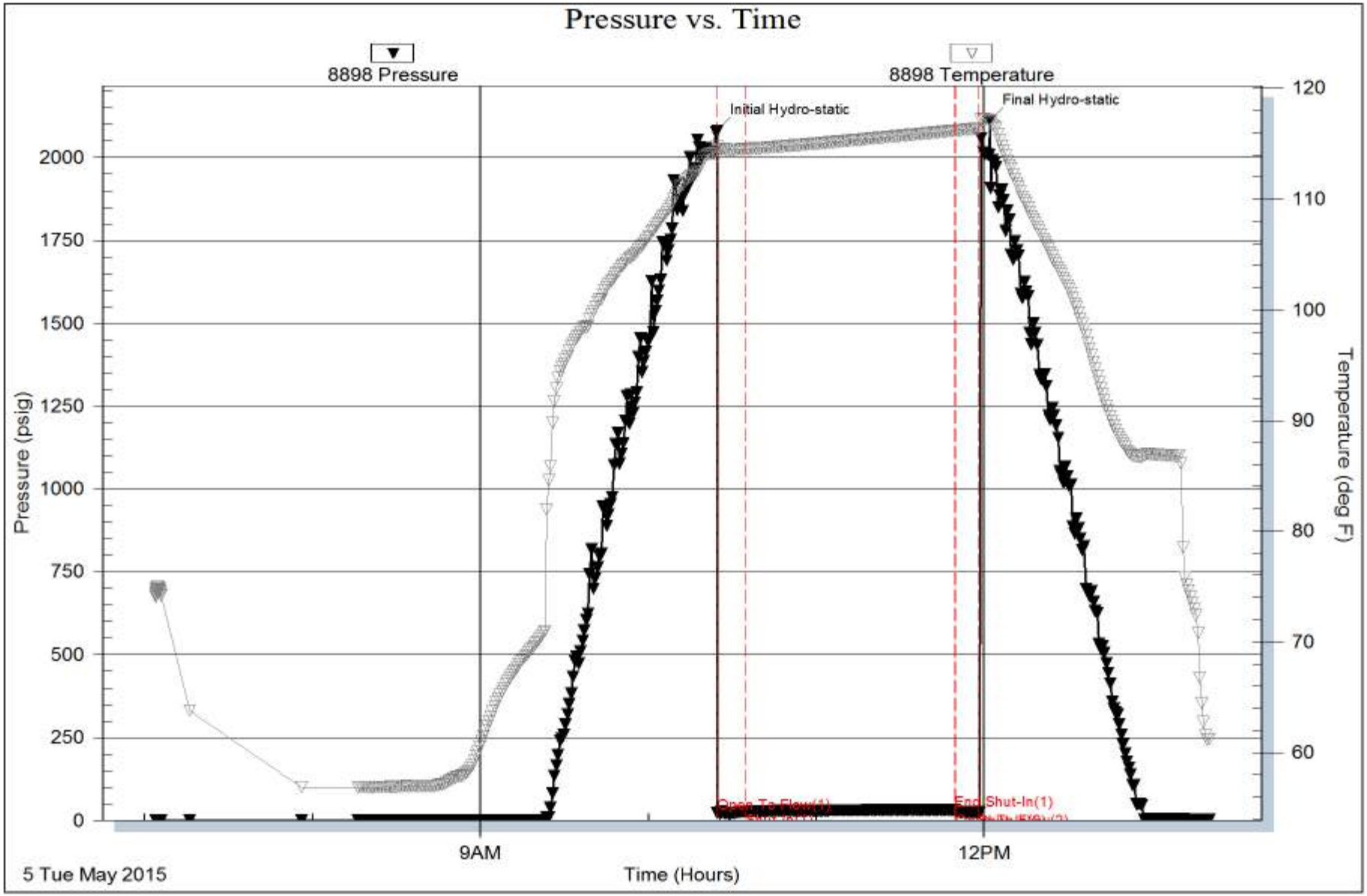
Recovery Table

Length ft	Description	Volume bbl
2.00	M, 100%m	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

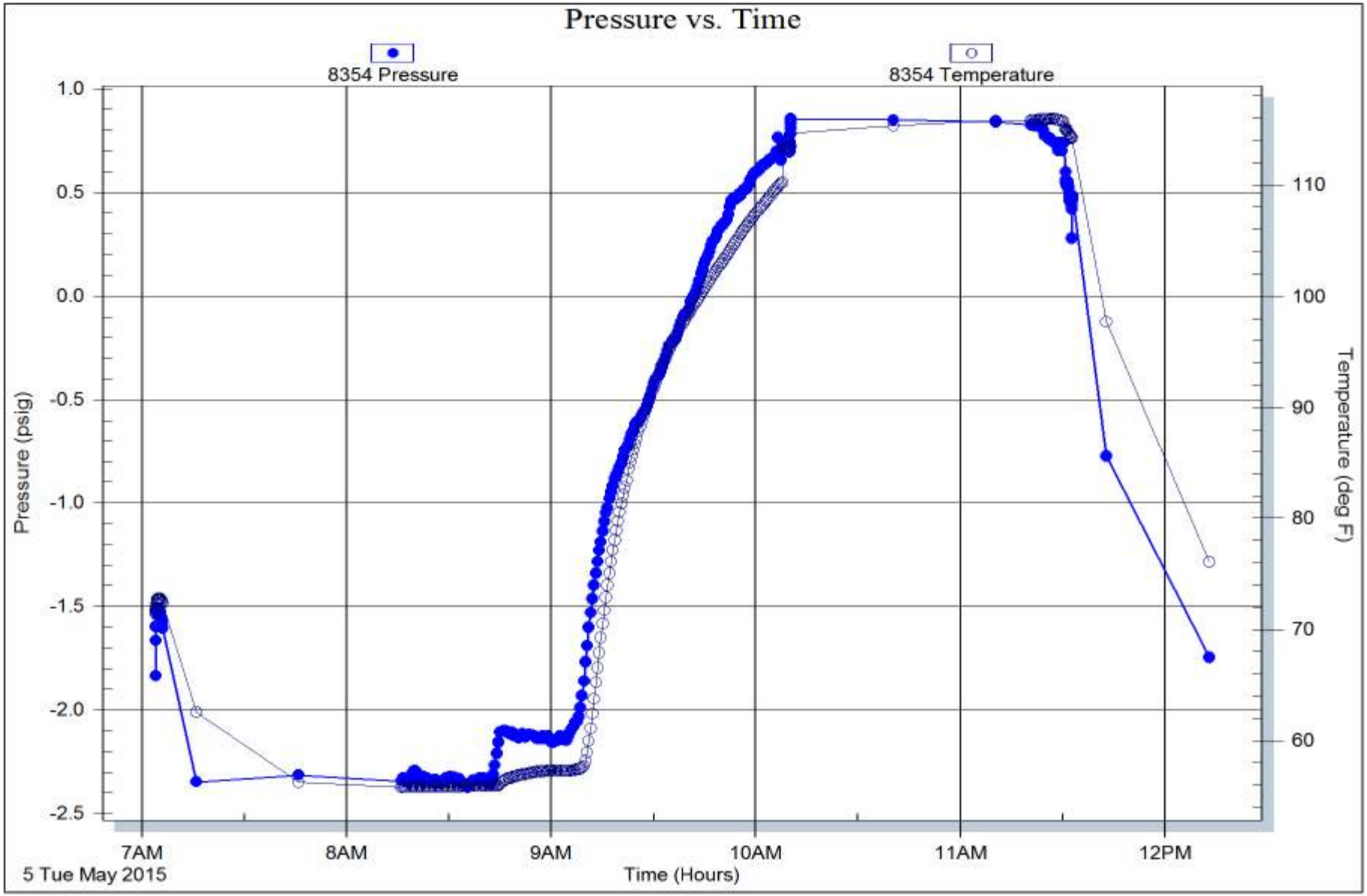
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8898 **Outside** Samuel Gary Jr. & Ass., Inc. Bixenman #1-33 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 62467 Printed: 2015.05.05 @ 13:54:29

Serial #: 8354 **Fluid** Samuel Gary Jr. & Ass., Inc. Bixenman #1-33 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 62467 Printed: 2015.05.05 @ 13:54:30

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

Well Name:	SGA Bixenman 1-33		
Well Id:			
Location:	Sec. 33-10S-30W Sheridan County, KS		
License Number:	15-179-21404-0000	Region:	Wildcat
Spud Date:	April 30, 2015	Drilling Completed:	May 6, 2015
Surface Coordinates:			
Bottom Hole Coordinates:			
Ground Elevation (ft):	2952'	K.B. Elevation (ft):	2957'
Logged Interval (ft):	3860' To: 4610'	Total Depth (ft):	4610'
Formation:	Lansing / Kansas City		
Type of Drilling Fluid:	Natural Chemical		

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

OPERATOR

Company: Samuel Gary Jr. & Assoc.
Address: 1515 Wynkoop, Ste. #700
Denver, CO 80202
Geo: Clayton Camozzi

GEOLOGIST

Name: Jeff Kamps
Company: EARTH TECH OGL,Inc.
Address: PO Box 683 8918 5Th St
Hooker, Okla 73945 Great Bend,Ks. 67530
1-580-652-3924 1-888-543-8378

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Ass., Inc.

1515 Wynkoop STE 700
Denver, CO 80202

ATTN: Clayton Camozzi

Sec. 33-10s-30w Sheridan,KS

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2952.00 ft (CF)
KB to GR/CF: 5.00 ft

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Press@RunDepth: 27.91 psig @ 4164.00 ft (KB)
Start Date: 2015.05.05 End Date: 2015.05.05
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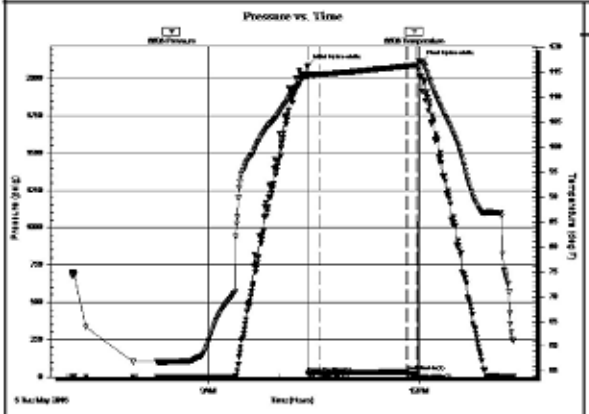
75-ISI-No Return
5-FF-No Blow /Pulled Tool
FSI-N/A



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2080.85	114.73	Initial Hydro-static
1	23.96	113.83	Open To Flow (1)
11	27.91	114.51	Shut-In(1)
85	33.06	116.16	End Shut-In(1)
85	26.64	116.16	Open To Flow (2)
94	25.64	116.36	Shut-In(2)
98	2110.62	117.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	M, 100%m	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

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
- Sltysh
- Lms

ACCESSORIES

FOSSIL
- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

MINERAL
- 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
- Chlorite
- Dol
- Sand
- Slty

STRINGER
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh
- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

TEXTURE
- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

INTERVALS
- Core
- Dst
- Dst

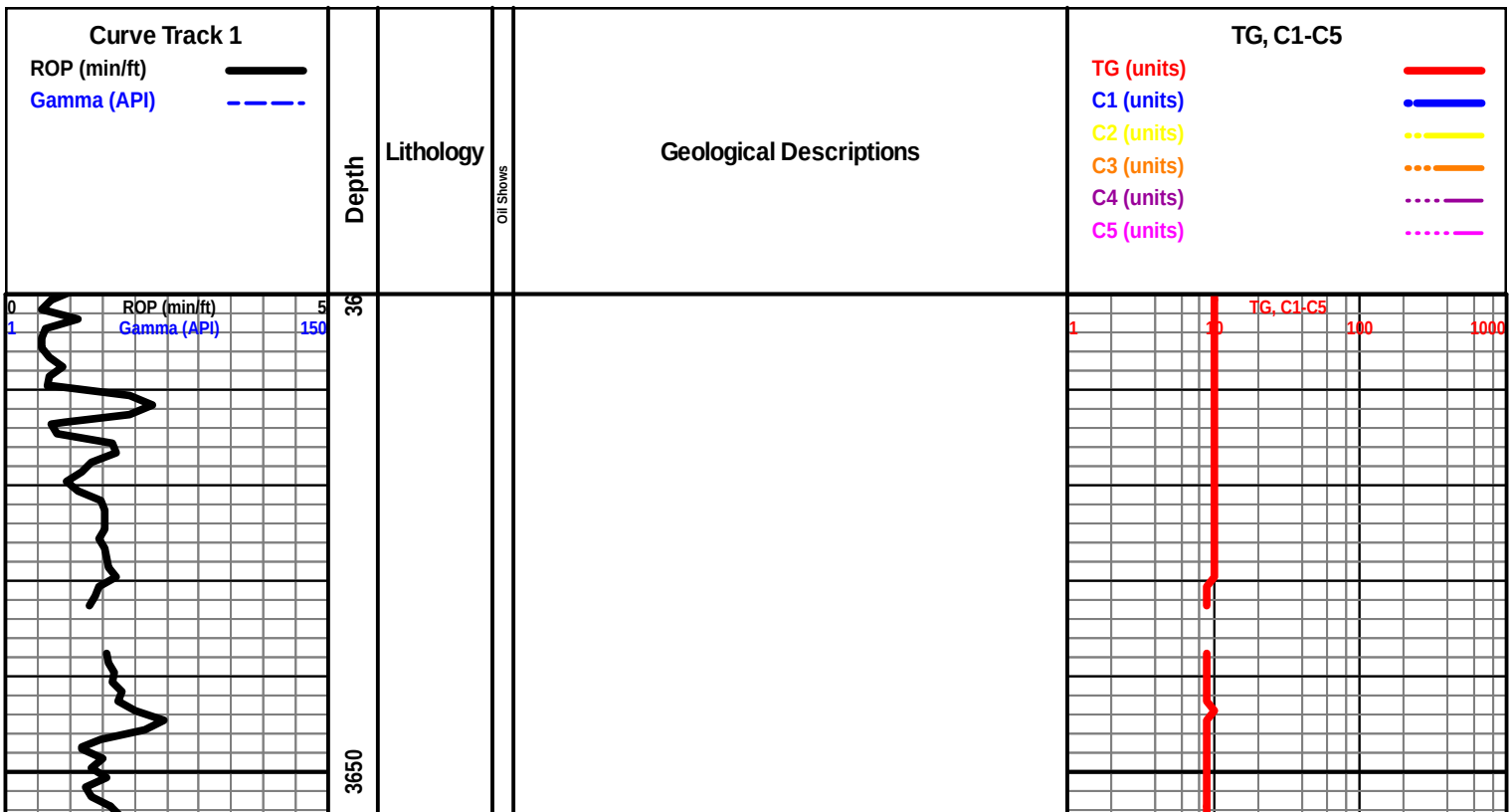
EVENTS
- Rft
- Sidewall

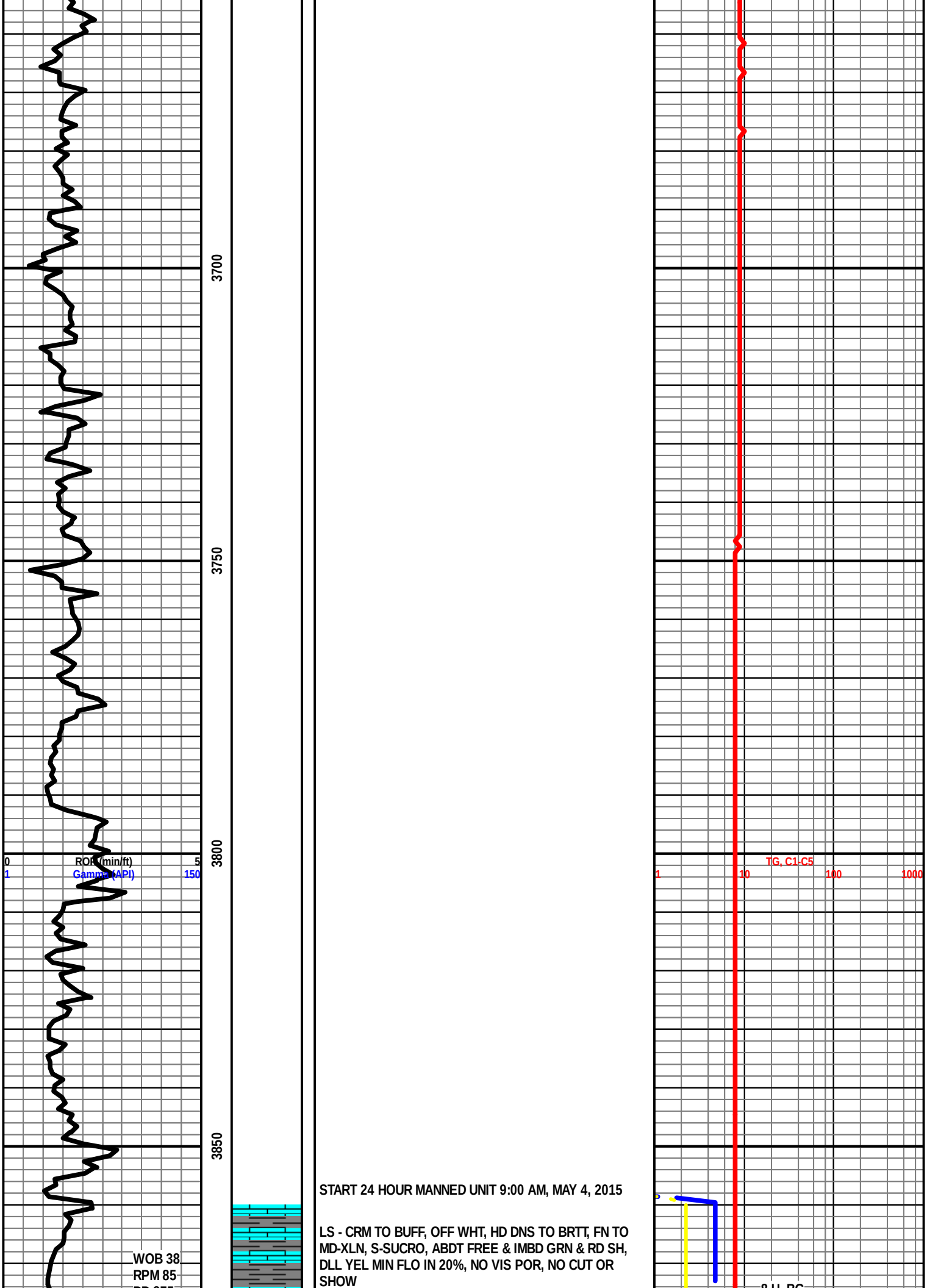
POROSITY TYPE
- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

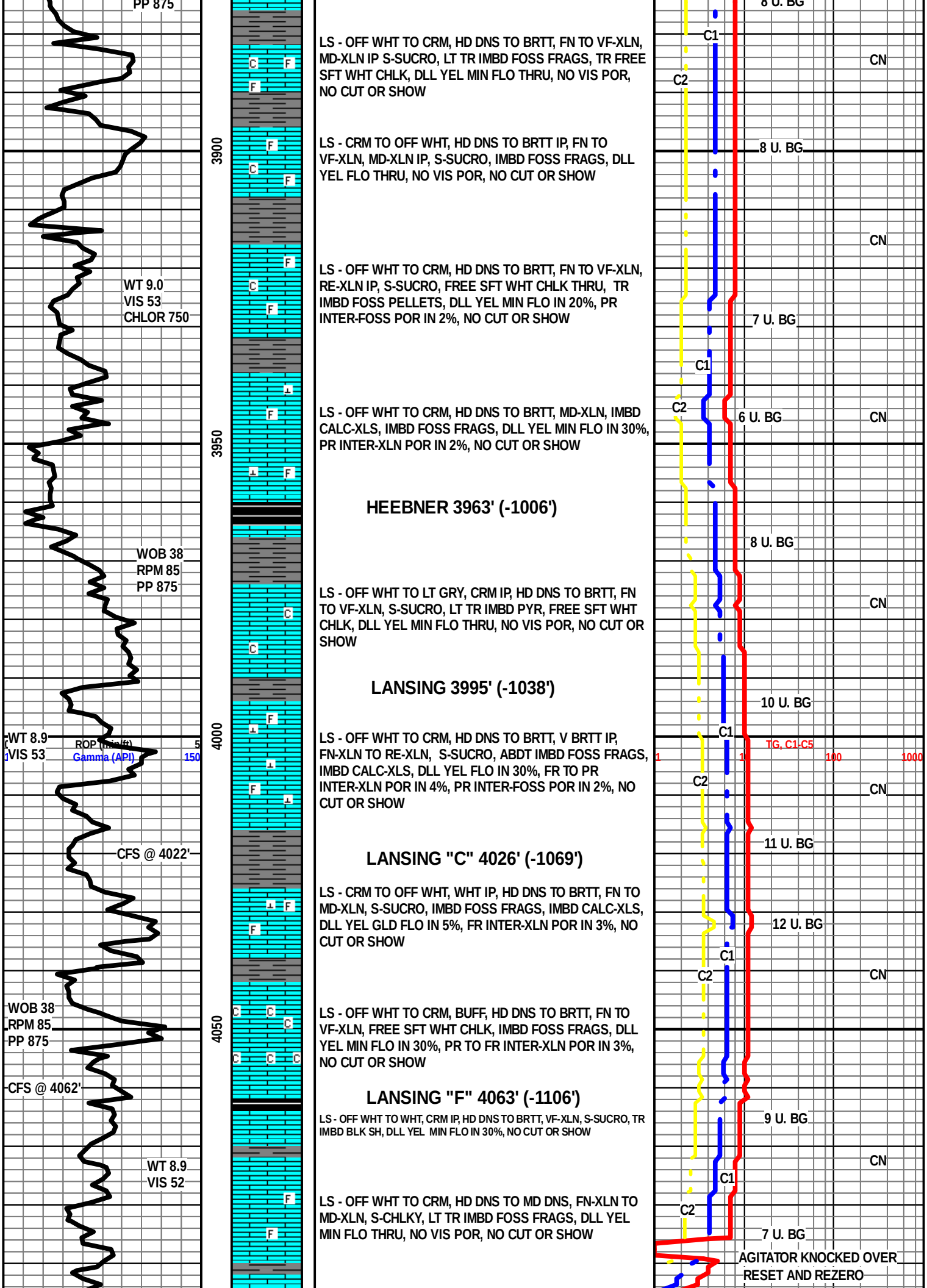
SORTING
- Well
- Moderate
- Poor

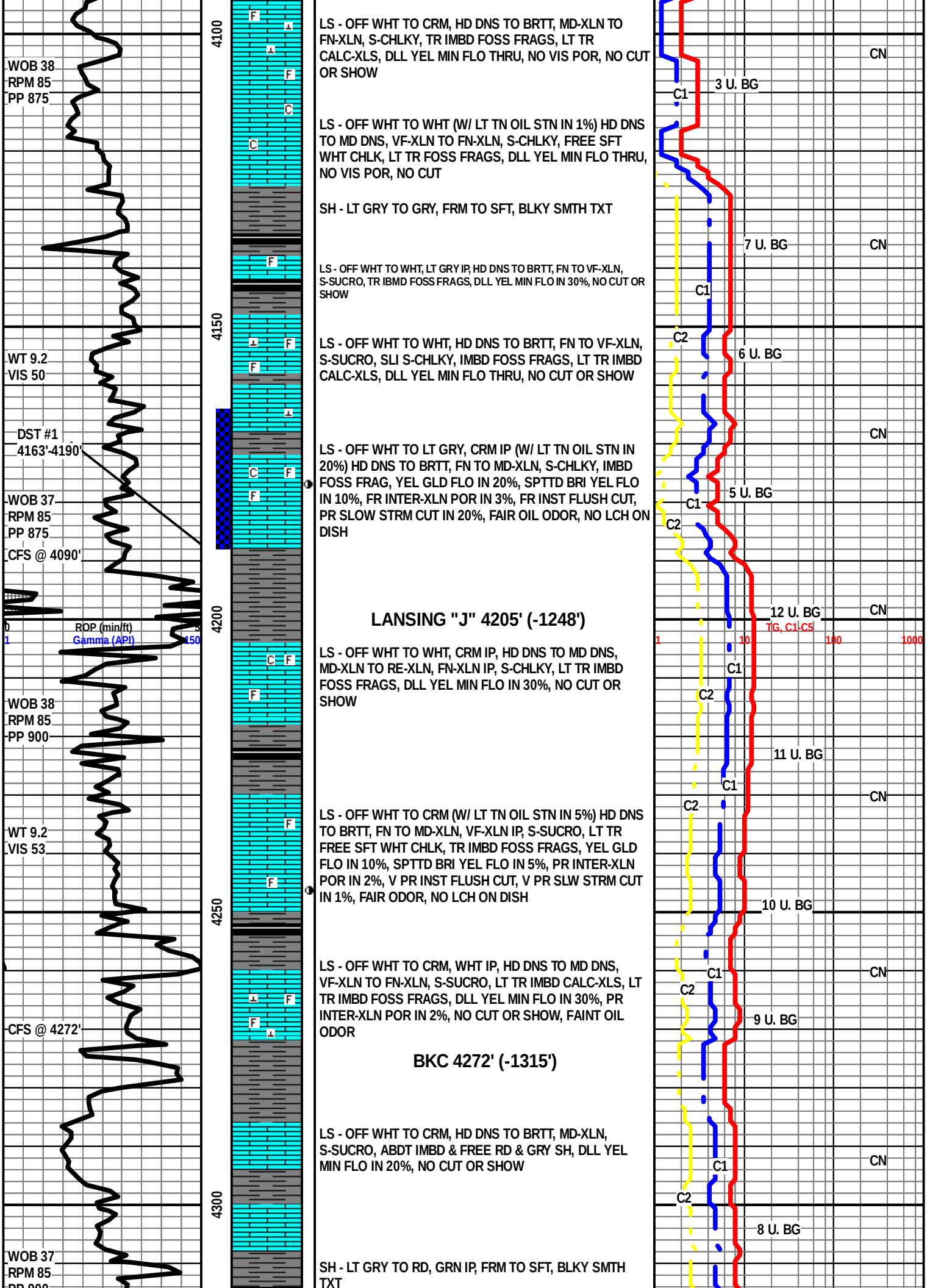
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

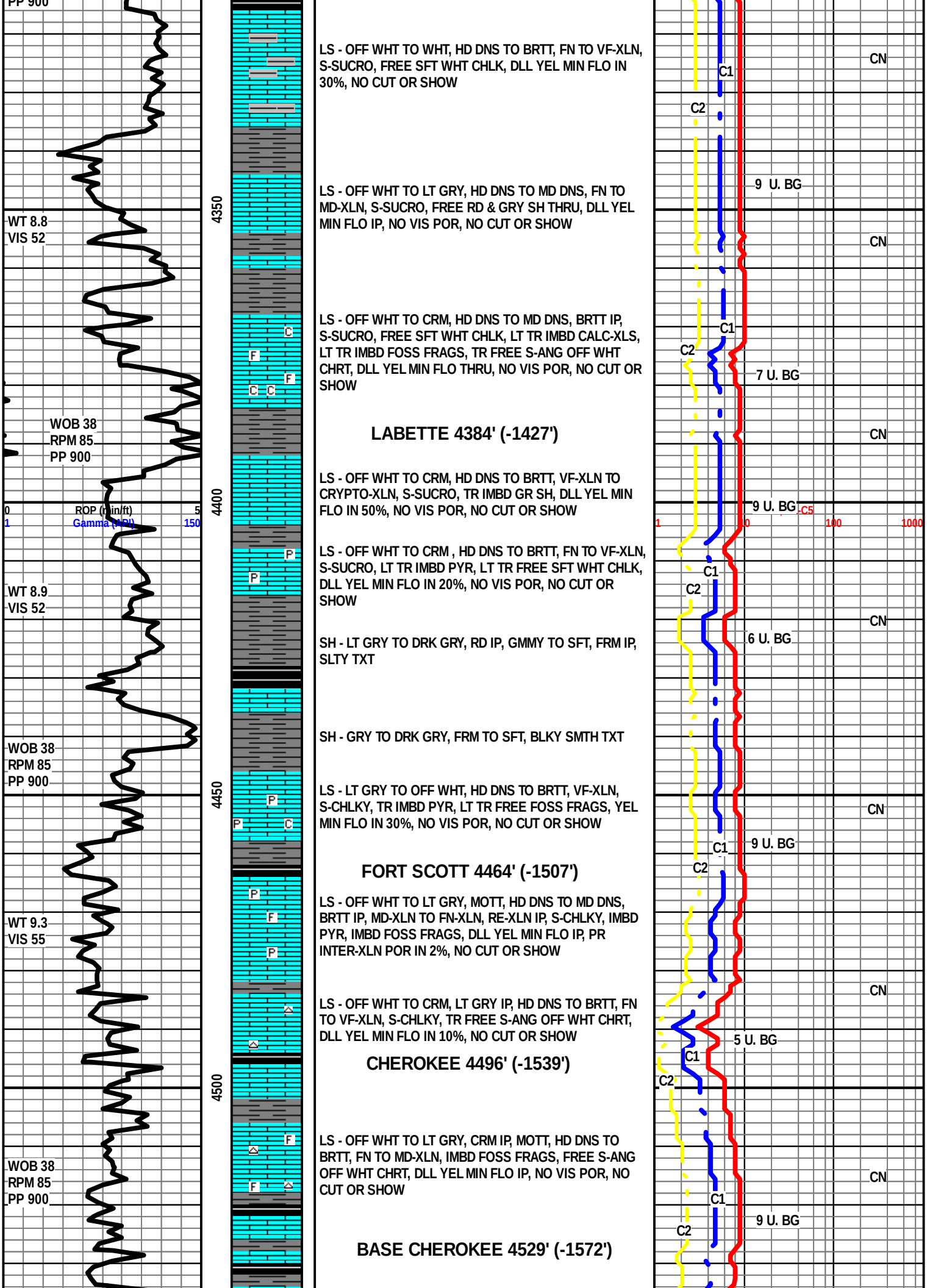
OIL SHOWS
- Even
- Spotted
- Ques
- Dead
- Gas show

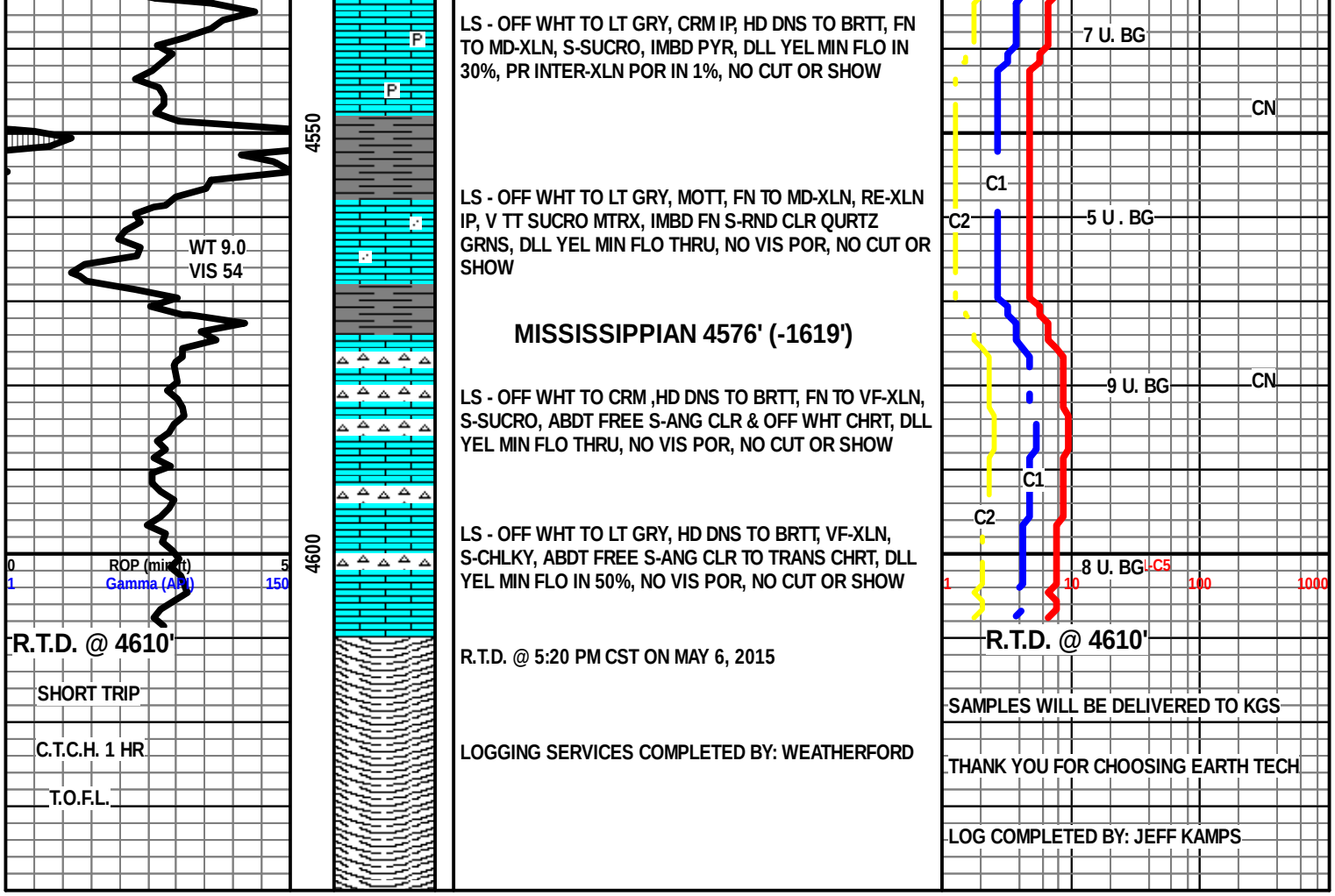



3700
3750
3800
3850
0
ROP (min/ft)
5
1
Gamma (API)
150
TG, C1-C5
1
10
100
1000
START 24 HOUR MANNED UNIT 9:00 AM, MAY 4, 2015
LS - CRM TO BUFF, OFF WHT, HD DNS TO BRTT, FN TO MD-XLN, S-SUCRO, ABDT FREE & IMBD GRN & RD SH, DLL YEL MIN FLO IN 20%, NO VIS POR, NO CUT OR SHOW
WOB 38
RPM 85


PP 875
WT 9.0
VIS 53
CHLOR 750
WOB 38
RPM 85
PP 875
WT 8.9
VIS 53
ROP (min/ft)
Gamma (API)
5
150
CFS @ 4022'
WOB 38
RPM 85
PP 875
CFS @ 4062'
WT 8.9
VIS 52
3900
3950
4000
4050
LS - OFF WHT TO CRM, HD DNS TO BRTT, FN TO VF-XLN, MD-XLN IP S-SUCRO, LT TR IMBD FOSS FRAGS, TR FREE SFT WHT CHLK, DLL YEL MIN FLO THRU, NO VIS POR, NO CUT OR SHOW
LS - CRM TO OFF WHT, HD DNS TO BRTT IP, FN TO VF-XLN, MD-XLN IP, S-SUCRO, IMBD FOSS FRAGS, DLL YEL FLO THRU, NO VIS POR, NO CUT OR SHOW
LS - OFF WHT TO CRM, HD DNS TO BRTT, FN TO VF-XLN, RE-XLN IP, S-SUCRO, FREE SFT WHT CHLK THRU, TR IMBD FOSS PELLETS, DLL YEL MIN FLO IN 20%, PR INTER-FOSS POR IN 2%, NO CUT OR SHOW
LS - OFF WHT TO CRM, HD DNS TO BRTT, MD-XLN, IMBD CALC-XLS, IMBD FOSS FRAGS, DLL YEL MIN FLO IN 30%, PR INTER-XLN POR IN 2%, NO CUT OR SHOW
HEEBNER 3963' (-1006')
LS - OFF WHT TO LT GRY, CRM IP, HD DNS TO BRTT, FN TO VF-XLN, S-SUCRO, LT TR IMBD PYR, FREE SFT WHT CHLK, DLL YEL MIN FLO THRU, NO VIS POR, NO CUT OR SHOW
LANSING 3995' (-1038')
LS - OFF WHT TO CRM, HD DNS TO BRTT, V BRTT IP, FN-XLN TO RE-XLN, S-SUCRO, ABDT IMBD FOSS FRAGS, IMBD CALC-XLS, DLL YEL FLO IN 30%, FR TO PR INTER-XLN POR IN 4%, PR INTER-FOSS POR IN 2%, NO CUT OR SHOW
LANSING "C" 4026' (-1069')
LS - CRM TO OFF WHT, WHT IP, HD DNS TO BRTT, FN TO MD-XLN, S-SUCRO, IMBD FOSS FRAGS, IMBD CALC-XLS, DLL YEL GLD FLO IN 5%, FR INTER-XLN POR IN 3%, NO CUT OR SHOW
LS - OFF WHT TO CRM, BUFF, HD DNS TO BRTT, FN TO VF-XLN, FREE SFT WHT CHLK, IMBD FOSS FRAGS, DLL YEL MIN FLO IN 30%, PR TO FR INTER-XLN POR IN 3%, NO CUT OR SHOW
LANSING "F" 4063' (-1106')
LS - OFF WHT TO WHT, CRM IP, HD DNS TO BRTT, VF-XLN, S-SUCRO, TR IMBD BLK SH, DLL YEL MIN FLO IN 30%, NO CUT OR SHOW
LS - OFF WHT TO CRM, HD DNS TO MD DNS, FN-XLN TO MD-XLN, S-CHLKY, LT TR IMBD FOSS FRAGS, DLL YEL MIN FLO THRU, NO VIS POR, NO CUT OR SHOW
8 U. BG
C1
C2
CN
8 U. BG
CN
7 U. BG
C1
C2
6 U. BG
CN
8 U. BG
CN
10 U. BG
C1
TG, C1-C5
1
10
100
1000
C2
CN
11 U. BG
12 U. BG
C1
C2
CN
9 U. BG
CN
C1
C2
7 U. BG
AGITATOR KNOCKED OVER
RESET AND REZERO


WOB 38
RPM 85
PP 875
WT 9.2
VIS 50
DST #1
4163'-4190'
WOB 37
RPM 85
PP 875
CFS @ 4090'
0
ROP (min/ft)
5
1
Gamma (API)
150
WOB 38
RPM 85
PP 900
WT 9.2
VIS 53
CFS @ 4272'
WOB 37
RPM 85
4100
4150
4200
4250
4300
LS - OFF WHT TO CRM, HD DNS TO BRTT, MD-XLN TO FN-XLN, S-CHLKY, TR IMBD FOSS FRAGS, LT TR CALC-XLS, DLL YEL MIN FLO THRU, NO VIS POR, NO CUT OR SHOW
LS - OFF WHT TO WHT (W/ LT TN OIL STN IN 1%) HD DNS TO MD DNS, VF-XLN TO FN-XLN, S-CHLKY, FREE SFT WHT CHLK, LT TR FOSS FRAGS, DLL YEL MIN FLO THRU, NO VIS POR, NO CUT
SH - LT GRY TO GRY, FRM TO SFT, BLKY SMTH TXT
LS - OFF WHT TO WHT, LT GRY IP, HD DNS TO BRTT, FN TO VF-XLN, S-SUCRO, TR IBMD FOSS FRAGS, DLL YEL MIN FLO IN 30%, NO CUT OR SHOW
LS - OFF WHT TO WHT, HD DNS TO BRTT, FN TO VF-XLN, S-SUCRO, SLI S-CHLKY, IMBD FOSS FRAGS, LT TR IMBD CALC-XLS, DLL YEL MIN FLO THRU, NO CUT OR SHOW
LS - OFF WHT TO LT GRY, CRM IP (W/ LT TN OIL STN IN 20%) HD DNS TO BRTT, FN TO MD-XLN, S-CHLKY, IMBD FOSS FRAG, YEL GLD FLO IN 20%, SPTTD BRI YEL FLO IN 10%, FR INTER-XLN POR IN 3%, FR INST FLUSH CUT, PR SLOW STRM CUT IN 20%, FAIR OIL ODOR, NO LCH ON DISH
LANSING "J" 4205' (-1248')
LS - OFF WHT TO WHT, CRM IP, HD DNS TO MD DNS, MD-XLN TO RE-XLN, FN-XLN IP, S-CHLKY, LT TR IMBD FOSS FRAGS, DLL YEL MIN FLO IN 30%, NO CUT OR SHOW
LS - OFF WHT TO CRM (W/ LT TN OIL STN IN 5%) HD DNS TO BRTT, FN TO MD-XLN, VF-XLN IP, S-SUCRO, LT TR FREE SFT WHT CHLK, TR IMBD FOSS FRAGS, YEL GLD FLO IN 10%, SPTTD BRI YEL FLO IN 5%, PR INTER-XLN POR IN 2%, V PR INST FLUSH CUT, V PR SLW STRM CUT IN 1%, FAIR ODOR, NO LCH ON DISH
LS - OFF WHT TO CRM, WHT IP, HD DNS TO MD DNS, VF-XLN TO FN-XLN, S-SUCRO, LT TR IMBD CALC-XLS, LT TR IMBD FOSS FRAGS, DLL YEL MIN FLO IN 30%, PR INTER-XLN POR IN 2%, NO CUT OR SHOW, FAINT OIL ODOR
BKC 4272' (-1315')
LS - OFF WHT TO CRM, HD DNS TO BRTT, MD-XLN, S-SUCRO, ABDT IMBD & FREE RD & GRY SH, DLL YEL MIN FLO IN 20%, NO CUT OR SHOW
SH - LT GRY TO RD, GRN IP, FRM TO SFT, BLKY SMTH TXT
3 U. BG
7 U. BG
6 U. BG
5 U. BG
12 U. BG
TG, C1-C5
1
10
100
1000
11 U. BG
10 U. BG
9 U. BG
8 U. BG
C1
C2
CN


PP 900
WT 8.8
VIS 52
WOB 38
RPM 85
PP 900
0
ROP (min/ft)
5
1
Gamma (API)
150
WT 8.9
VIS 52
WOB 38
RPM 85
PP 900
WT 9.3
VIS 55
WOB 38
RPM 85
PP 900
4350
4400
4450
4500
LS - OFF WHT TO WHT, HD DNS TO BRTT, FN TO VF-XLN, S-SUCRO, FREE SFT WHT CHLK, DLL YEL MIN FLO IN 30%, NO CUT OR SHOW
LS - OFF WHT TO LT GRY, HD DNS TO MD DNS, FN TO MD-XLN, S-SUCRO, FREE RD & GRY SH THRU, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW
LS - OFF WHT TO CRM, HD DNS TO MD DNS, BRTT IP, S-SUCRO, FREE SFT WHT CHLK, LT TR IMBD CALC-XLS, LT TR IMBD FOSS FRAGS, TR FREE S-ANG OFF WHT CHRT, DLL YEL MIN FLO THRU, NO VIS POR, NO CUT OR SHOW
LABETTE 4384' (-1427')
LS - OFF WHT TO CRM, HD DNS TO BRTT, VF-XLN TO CRYPTO-XLN, S-SUCRO, TR IMBD GR SH, DLL YEL MIN FLO IN 50%, NO VIS POR, NO CUT OR SHOW
LS - OFF WHT TO CRM , HD DNS TO BRTT, FN TO VF-XLN, S-SUCRO, LT TR IMBD PYR, LT TR FREE SFT WHT CHLK, DLL YEL MIN FLO IN 20%, NO VIS POR, NO CUT OR SHOW
SH - LT GRY TO DRK GRY, RD IP, GMMY TO SFT, FRM IP, SLTY TXT
SH - GRY TO DRK GRY, FRM TO SFT, BLKY SMTH TXT
LS - LT GRY TO OFF WHT, HD DNS TO BRTT, VF-XLN, S-CHLKY, TR IMBD PYR, LT TR FREE FOSS FRAGS, YEL MIN FLO IN 30%, NO VIS POR, NO CUT OR SHOW
FORT SCOTT 4464' (-1507')
LS - OFF WHT TO LT GRY, MOTT, HD DNS TO MD DNS, BRTT IP, MD-XLN TO FN-XLN, RE-XLN IP, S-CHLKY, IMBD PYR, IMBD FOSS FRAGS, DLL YEL MIN FLO IP, PR INTER-XLN POR IN 2%, NO CUT OR SHOW
LS - OFF WHT TO CRM, LT GRY IP, HD DNS TO BRTT, FN TO VF-XLN, S-CHLKY, TR FREE S-ANG OFF WHT CHRT, DLL YEL MIN FLO IN 10%, NO CUT OR SHOW
CHEROKEE 4496' (-1539')
LS - OFF WHT TO LT GRY, CRM IP, MOTT, HD DNS TO BRTT, FN TO MD-XLN, IMBD FOSS FRAGS, FREE S-ANG OFF WHT CHRT, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW
BASE CHEROKEE 4529' (-1572')
C1
C2
CN
9 U. BG
7 U. BG
6 U. BG
5 U. BG
C5
1
10
100
1000


WT 9.0
VIS 54
4550
4600
P
P
ROP (min/ft)
0
5
Gamma (API)
1
150
R.T.D. @ 4610'
SHORT TRIP
C.T.C.H. 1 HR
T.O.F.L.
LS - OFF WHT TO LT GRY, CRM IP, HD DNS TO BRTT, FN TO MD-XLN, S-SUCRO, IMBD PYR, DLL YEL MIN FLO IN 30%, PR INTER-XLN POR IN 1%, NO CUT OR SHOW
LS - OFF WHT TO LT GRY, MOTT, FN TO MD-XLN, RE-XLN IP, V TT SUCRO MTRX, IMBD FN S-RND CLR QURTZ GRNS, DLL YEL MIN FLO THRU, NO VIS POR, NO CUT OR SHOW
MISSISSIPPIAN 4576' (-1619')
LS - OFF WHT TO CRM ,HD DNS TO BRTT, FN TO VF-XLN, S-SUCRO, ABDT FREE S-ANG CLR & OFF WHT CHRT, DLL YEL MIN FLO THRU, NO VIS POR, NO CUT OR SHOW
LS - OFF WHT TO LT GRY, HD DNS TO BRTT, VF-XLN, S-CHLKY, ABDT FREE S-ANG CLR TO TRANS CHRT, DLL YEL MIN FLO IN 50%, NO VIS POR, NO CUT OR SHOW
R.T.D. @ 5:20 PM CST ON MAY 6, 2015
LOGGING SERVICES COMPLETED BY: WEATHERFORD
7 U. BG
CN
C1
C2
5 U . BG
9 U. BG
CN
C1
C2
8 U. BG
C5
1
10
100
1000
R.T.D. @ 4610'
SAMPLES WILL BE DELIVERED TO KGS
THANK YOU FOR CHOOSING EARTH TECH
LOG COMPLETED BY: JEFF KAMPS