Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1102278

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 # 34715
Name: Dorado E&P Partners, LLC
Address 1: 1401 17th ST., STE 1500
Address 2:
City: DENVER State: CO Zip: 80202 + __ __ __ __
Contact Person: TINA MILLER
Phone: (720) 402-3693
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Chris Spencer - Hembros Hydrocarbons
Purchaser: NCRA / West Wichita Gas Gathering

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 #:

08/22/2012	09/12/2012	10/28/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-155-21595-01-00
Spot Description:
SW SE SE SW Sec. 6 Twp. 25 S. R. 9 ☐ East ☑ West
150 Feet from ☐ North / ☑ South Line of Section
2080 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: Reno
Lease Name: Preisser Well #: 25-9-6-1H
Field Name:
Producing Formation: MISSISSIPPIAN
Elevation: Ground: 1721 Kelly Bushing: 1733
Total Vertical Depth: 8350 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 250 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: 40000 ppm Fluid volume: 6790 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Reh Oil & Gas
Lease Name: Harrell D SWD License #: 32556
Quarter NE Sec. 27 Twp. 29 S. R. 13 ☐ East ☑ West
County: Pratt Permit #: D-20005

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: 12/10/2012
☑ **Confidential Release Date:** 12/10/2014
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 12/14/2012

1102278

Operator Name: Dorado E&P Partners, LLC Lease Name: Preisser Well #: 25-9-6-1H

Sec. 6 Twp. 25 S. R. 9 ☐ East ☑ West County: Reno

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:

RESISTIVITY
DENSITY-NEUTRON

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

Name	Top	Datum
LANSING	3419 MD, 3419 TVD	-1686
STARK	3751 MD, 3683 TVD	-1950
CHEROKEE	4126 MD, 3864 TVD	-2131
MISSISSIPPIAN	4306 MD, 3908 TVD	-2175

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
Attached	Attached	Attached	Attached	Attached	Attached	Attached	Attached

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
Attached	Attached	Attached	Attached

TUBING RECORD: Size: 2.875 Set At: 3194 Packer At:

Liner Run: ☑ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 10/28/2012

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	113	1326	2917	11697	30

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:
4400-8281

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Dorado E&P Partners, LLC
Well Name	Preisser 25-9-6-1H
Doc ID	1102278

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
6	STG 1, 5 1' CLUSTERS, 30 SHOTS TOTAL	236685 GAL CLEAN FLUID, 2500 GAL 15% HCl, 52280# 30/50, 78000# 20/40	8020-8281
6	STG 2, 5 1' CLUSTERS, 30 SHOTS TOTAL	218246 GAL CLEAN FLUID, 2500 GAL 15% HCl, 51000# 30/50, 72600# 20/40	7675-7956
6	STG 3, 5 1' CLUSTERS, 30 SHOTS TOTAL	226594 GAL CLEAN FLUID, 2500 GAL 15% HCl, 52040# 30/50, 70000# 20/40	7345-7606
6	STG 4, 5 1' CLUSTERS, 30 SHOTS TOTAL	231658 GAL CLEAN FLUID, 2500 GAL 15% HCl, 54740# 30/50, 79310# 20/40	7000-7281
6	STG 5, 5 1' CLUSTERS, 30 SHOTS TOTAL	216563 GAL CLEAN FLUID, 2500 GAL 15% HCl, 52740# 30/50, 78550# 20/40	6658-6926
6	STG 6, 5 1' CLUSTERS, 30 SHOTS TOTAL	140501 GAL CLEAN FLUID, 2500 GAL 15% HCl, 23000# 30/50	6315-6581
6	STG 7, 5 1' CLUSTERS, 30 SHOTS TOTAL	268497 GAL CLEAN FLUID, 2500 GAL 15% HCl, 56500# 30/50, 50000# 20/40	6000-6256
6	STG 8, 5 1' CLUSTERS, 30 SHOTS TOTAL	214445 GAL CLEAN FLUID, 2500 GAL 15% HCl, 50680# 30/50, 75690# 20/40	5695-5931

Form	ACO1 - Well Completion
Operator	Dorado E&P Partners, LLC
Well Name	Preisser 25-9-6-1H
Doc ID	1102278

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
6	STG 9, 5 1' CLUSTERS, 30 SHOTS TOTAL	213223 GAL CLEAN FLUID, 2500 GAL 15% HCl, 53500# 30/50, 75520# 20/40	5426-5636
6	STG 10, 5 1' CLUSTERS, 30 SHOTS TOTAL	258514 GAL CLEAN FLUID, 4900 GAL 15% HCl, 94795# 30/50, 111780# 20/40	5026-5326
6	STG 11, 5 1' CLUSTERS, 30 SHOTS TOTAL	211393 GAL CLEAN FLUID, 2500 GAL 15% HCl, 55865# 30/50, 82120# 20/40	4710-4931
6	STG 12, 5 1' CLUSTERS, 30 SHOTS TOTAL	212730 GAL CLEAN FLUID, 1684 GAL 15% HCl, 52000# 30/50, 80550# 20/40	4400-4641

Form	ACO1 - Well Completion
Operator	Dorado E&P Partners, LLC
Well Name	Preisser 25-9-6-1H
Doc ID	1102278

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	17.5	13.375	48	250	COMMON	300	2% CaCl2
INTERMEDIATE	12.25	9.625	36	1470	A-CON / COMMON	625	
PRODUCTION	8.75	7	26	4427	AA2	160	
LINER	6.125	4.5	11.6	8350		485	

BASIC energy services, L.P.

TREATMENT REPORT

Customer	Lease No.	Date
DORADO E&P PARTNER		05-22-12
Lease	**Well #**	
PRESSER 25-9-6E	1-H	

Field Order #	Station	Casing	Depth	County	State
6790	PRATT KS	13 3/8	250'	RENO	KS

Type Job	Formation	Legal Description
CNW 13 3/8 CONDUCTOR		6-25-9

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size 13 3/8	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth 253'	Depth	From	To	Pre Pad	Max		5 Min.
Volume 36.1/2	Volume	From	To	Pad	Min		10 Min.
Max Press 400	Max Press	From	To	Frac	Avg		15 Min.
Well Connection SWAGE	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 233'	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative	Station Manager	Treater
	DAVE SCOTT	Robert Sullivan

Service Units	37900	33708	20970	19960	21010						
Driver Names	Sullivan	Wright		Phye							

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2:30					CNW LC Safety mtg
					RUN JTS 13 3/8 #48 CSG
9:30					CASING ON BOTTOM
9:40					Hook Up Circ.
10:00			5	3	1st SPACER
				4.5	mix cmt 300 sk common 2% cc 1/4 c.f.
			76		cmt mixed
				4	1st DISP
10:30	100		36 1/2		Plug down
					Circ 15 bbls cmt pit
					JOB Complete
					Thank you

BASIC energy services, L.P.

TREATMENT REPORT

Customer: Dorado E & P Partners, LLC	Lease No.	Date: 8-25-12	
Lease: Preisser 25-9-6-1H	Well #:		
Field Order #: 6,750	Station: Pratt, Kansas	Casing: 7 7/8" 36Lb/Ft. Depth: 1,470Feet	County: Reno	State: Kansas
Type Job: C.N.W. - Surface	Formation:	Legal Description: 6-25S-9W		

PIPE DATA		PERFORATING DATA		USED	TREATMENT RESUME		
Casing Size: 7 7/8 36Lb/Ft.	Tubing Size:	Shots/Ft:	300 sacks A-Con Blend Cement with		RATE	PRESS	ISIP
Depth: 1,470Feet	Depth:	From:	To: 3% Calcium Chloride, .25Lb/sk. Cellflake		Max: 5		5 Min.
Volume: 113.6 Bbl	Volume:	From:	To: 250 sacks common with		Min:		10 Min.
Max Press: 400 P.S.I	Max Press:	From:	To: 2% Calcium Chloride, .25Lb/sk. Cellflake		Avg:		15 Min.
Well Connection: Plug Container	Annulus Vol.:	From:	To:		HHP Used:		Annulus Pressure
Plug Depth: 1,430.5 Feet	Packer Depth:	From:	To:	Flush: 110.6 Bbl. Fresh Water	Gas Volume:		Total Load

Customer Representative: James Flud | Station Manager: David Scott | Treater: Clarence R. Messick

Service Units	37,216	19,903	19,905	19,959	21,010	70,959	19,918				
Driver Names	Messick	Mattal		Young		Lawrence					

Time AM	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2:30				Trucks on	location and hold safety meeting.
					Casing being run upon arrival.
5:40					Casing in well. Circulate for 30 minutes.
6:20	300			5	Start Fresh water pre-flush.
	300		10	6	Start mixing 300 sacks A-Con Blend cement.
	200		123	5	Start mixing 250 sacks common cement.
			176		Stop pumping. Shut in well. Release Top
					Rubber Plug. Open Well.
7:05	100			5	Start Fresh water Displacement.
7:30	400		110.6		Plug down. Did not circulate cement.
					Open release. Insert held.
					Wash up pump truck.
					~~Job Complete~~
					~~Thank You.~~
					~~Clarence, Mike, Steve, Mike~~
					Tag cement with measuring line 145 Feet down
10:00					Start running 140 Feet of 1" tubing.
10:30		200		1	Start mixing cement.
			10.5		Cement circulated to surface.
					Wash up pump truck and pull 1" tubing.
11:30					Job Complete.
					Thank You. Clarence, Mike, Steve, Mike

Taylor Printing, Inc. 620-672-3656

BASIC energy services, L.P.

TREATMENT REPORT

Customer: Dorado E&P Partners	Lease No.			Date: 9-2-12	
Lease: Preisser	Well #: 25-9-6-1H				
Field Order #: 6678	Station: Pratt	Casing: 7" 26#	Depth	County: Reno	State: KS
Type Job: CNW - 7" L.S.	Formation			Legal Description: 6-25S-9W	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size: 7"	Tubing Size	Shots/Ft		160 Sks Acid AA2 Cement	RATE	PRESS	ISIP
Depth: 4427	Depth	From	To	Pre Pad: 1.36 yeild	Max		5 Min.
Volume: 69.5	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush: 168	Gas Volume		Total Load

Customer Representative | Station Manager: Dave Scott | Treater: Steve Orlando

Service Units	27283	27463	20959	19918							
Driver Names	Orlando	Mcbrayer	PMP	E							

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:00 AM					On location - Safety Meeting
					Casing on Bottom Break Circ w/Rig
1:12	400		12	5	Mud Flush
1:14	400		5	5	H20 Spacer
1:15	400		39	5	mix 160 sks AA2 Cement @ 15.3#/gal
					Shut Down - Clear pump & Line
					Release Plug
1:29	0		0	6	Start H20 Displacement
1:51	400		130	5	Lift pressure
1:56	650		155	4	Slow Rate
2:00 PM	1500		168	4	Plug Down - Held
					Job Complete
					Thanks, Steve

Taylor Printing, Inc. 620-672-3656

BASIC energy services, L.P.

TREATMENT REPORT

Customer: Dixie Oil Partners	Lease No.		Date: 9-13-12
Lease: Prichard	Well #: 25-9-6-11		
Field Order #: 6624	Station: Pratt	Casing / Depth	County: Reno / State: KS
Type Job: CNW - Liner	Formation		Legal Description: 6-25-9

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft	505 sks	Acid: Premium Cmt	RATE	PRESS	ISIP
Depth	Depth	From	To	Pre Pad	Max		5 Min.
Volume	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush 104	Gas Volume		Total Load

Customer Representative: Brad Crouch	Station Manager: Dave Scott				Treater: Steve Orlando					
Service Units	27283	27463	19831	19862	19960	21010				
Driver Names	Orlando	Mcbride	Pierson		Rod					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:00 PM					On location - Safety meeting
			0	1	Pump Insert Tru 3100 To Open
11:17 PM	3100		5	1/2	Open
	300		120	4	pump mud flush
	300		5	1	H2O Spacer
			7	4	mix 200sks Scavenger @ 13.2#/gal
					mix 485 sks Premium @ 15.6#/gal
					Shut Down - Clean Pump & Line
					with Sugar H2O Release plug
	0		0	2	Start Displacement with Sugar KCL/H2O
	2100		7	3 1/2	Switch to KCL H2O
	950		39	3	39 bbl past Thru
	1000		80	4	Slow Rate
	800		100	1 1/2	Slow Rate
	1200		104	1	plug Down - Hold Release back 3/4 bbl
12:30	1900		2	1	Pressure up to Burst Disk
					Pump 5 bbl Shut Down
					Release Drill pipe off Liner
					Circulate well
			70	3	Switch To pit
1:30			180		Job Complete
					Thanks, Steve

BASIC energy services, L.P.

TREATMENT REPORT

Customer: Oxy USA E+P Partners LLC	Lease No.	Date: 9-25-12	
Lease: Preisser 25-9-6-1H	Well #		
Field Order #: 06573A	Station: Pratt KS	Casing: 4 1/2"	Depth
County: Rawlins	State: KS		
Type Job: Pump Plug + Perf Gun Down CNW	Formation	Legal Description: 6-2S-39	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size: 4 1/2	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth	Depth	From	To	Pre Pad	Max		5 Min.
Volume	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative: Brad Sirokey				Station Manager: Scott Kay			Treater: Allen				
Service Units	28443	19889	19483		19837		33703		30316		
Driver Names	Allen	James	Anthony		Tsimpas		Pierce		Mcguire		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
750					On Loc. Discuss Safety, Setup Plan Job
					Pumped gauge rings using
					approx 400 BBL H2O.
1200					come out of Hole
1755		3000			PRESSURE TEST
1758		3081		13	Pumping
1808			133		SHUT DOWN
1817		2928		14	Pump NO RATE on computer
1820					SHUT DOWN
					WAIT ON SPECIAL TOOL
2146				2	START PUMPING
2147		440		4	UP RATE
2148		1060	151	6	UP RATE
2151			170	3	SLOW RATE
2153			174	4	UP RATE
2159			198	5	UP RATE
2212		1365		4	SLOW RATE
			270		SHUT DOWN

JOB COMPLETE

Scale: 5" / 100'
Measured Depth Log

Well Name	Priesser 25-9-6-1H		
Location	S2 S2 SE SW, Section 6, T25S-R9W		
State	Kansas	**County**	Reno
Country	United States	**Rig**	Duke Drilling Co. Rig #20
API Number	15-155-21595		
Surface Coordinates	150' FSL, 2,080' FWL		
Ground Elevation	1,721'	**K.B. Elevation**	1,733'
Logged Interval	3200 **To** 8,350'	**Total Depth**	8,350'
Formation	Osage (Mississippian)		
Type of Drilling Fluid	Fresh Water		

Operator

Company Dorado E&P Partners, LLC

Address 1401 17th Street
Suite 1500
Denver,CO 80202

Geologist

Name Dave Wheeler

Company Dorado E&P Partners, LLC

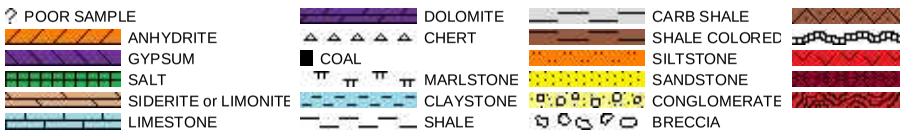
1401 17th Street
Suite 1500
Denver,CO 80202

Other

Loggers

Chris Spencer
Kyle Welty

Rock Types



TILL
BENTONITE
TUFF
IGNEOUS
METAMORPHIC

Accessories

Fossils

- FOSSIL
- GASTROPOD
- ALGAE
- AMPHIPORA
- BELEMNITE
- BIOCLASTIC
- BRACHOIPOD
- BRYOZOA
- CEPHALOPOD
- CORAL
- CRINOID
- ECHINOID
- FISH
- FORAMINIFERA
- OOLITE
- OSTRACOD
- PELECYPOD
- PELLET
- PISOLITE
- PLANT REMAINS
- PLANT SPORES
- SCAPHOPOD
- STROMATOPOROID

Minerals

- ANHYDRITIC
- ARGILLACEOUS
- ARGILLITE GRAIN
- BENTONITE
- BITUMENOUS SUBSTANCE
- BRECCIA FRAGMENTS
- CALCAREOUS
- CARBONACEOUS FLAKES
- CHTDK
- CHTLT
- COAL - THIN BEDS
- DOLOMITIC
- FELDSPAR
- FERRUGINOUS PELLET
- FERRUGINOUS
- GLAUCONITE
- GYPSIFEROUS
- HEAVY MINERAL
- KAOLIN
- MARLSTONE
- MINERAL CRYSTALS
- NODULES
- PHOSPHATE PELLETS
- PYRITE
- SALT CAST
- SANDY
- SILICEOUS
- SILTY
- TUFFACEOUS

Stringer

- ANHYDRITE STRINGER
- BENTONITE STRINGER
- COAL STRINGER
- DOLOMITE STRINGER
- GYPSUM STRINGER
- LIMESTONE STRINGER
- MARLSTONE (CALC) STRG
- MARLSTONE (DOL) STRG
- SANDSTONE STRINGER
- SHALE STRINGER
- SILTSTONE STRINGER

Other Symbols

Oil Show

- DEAD
- EVEN
- QUESTIONABLE
- SPOTTED STAINING

Porosity

- EARTHY
- FENESTRAL
- FRACTURE
- INTERCRYSTALLINE
- INTEROOLITIC
- MOLDIC
- ORGANIC
- PINPOINT
- VUGGY

Engineering

- BIT
- CONNECTION (LEFT)
- CONNECTION (RIGHT)
- CONNECTION GAS
- CORE - LOST
- CORE - RECOVERED
- DST INTERVAL
- FAULT
- FORMATION TOP
- GAS SHOW
- MN DEPTH
- NORMAL FAULT
- OIL SHOW
- OVERTURNED STRATA
- REVERSE FAULT
- SIDEWALL CORE (LEFT)
- SIDEWALL CORE (RIGHT)
- SLIDE
- SURVEY
- TRIP GAS
- WIRELINE TESTED - LEFT
- WIRELINE TESTED - RT

Rounding

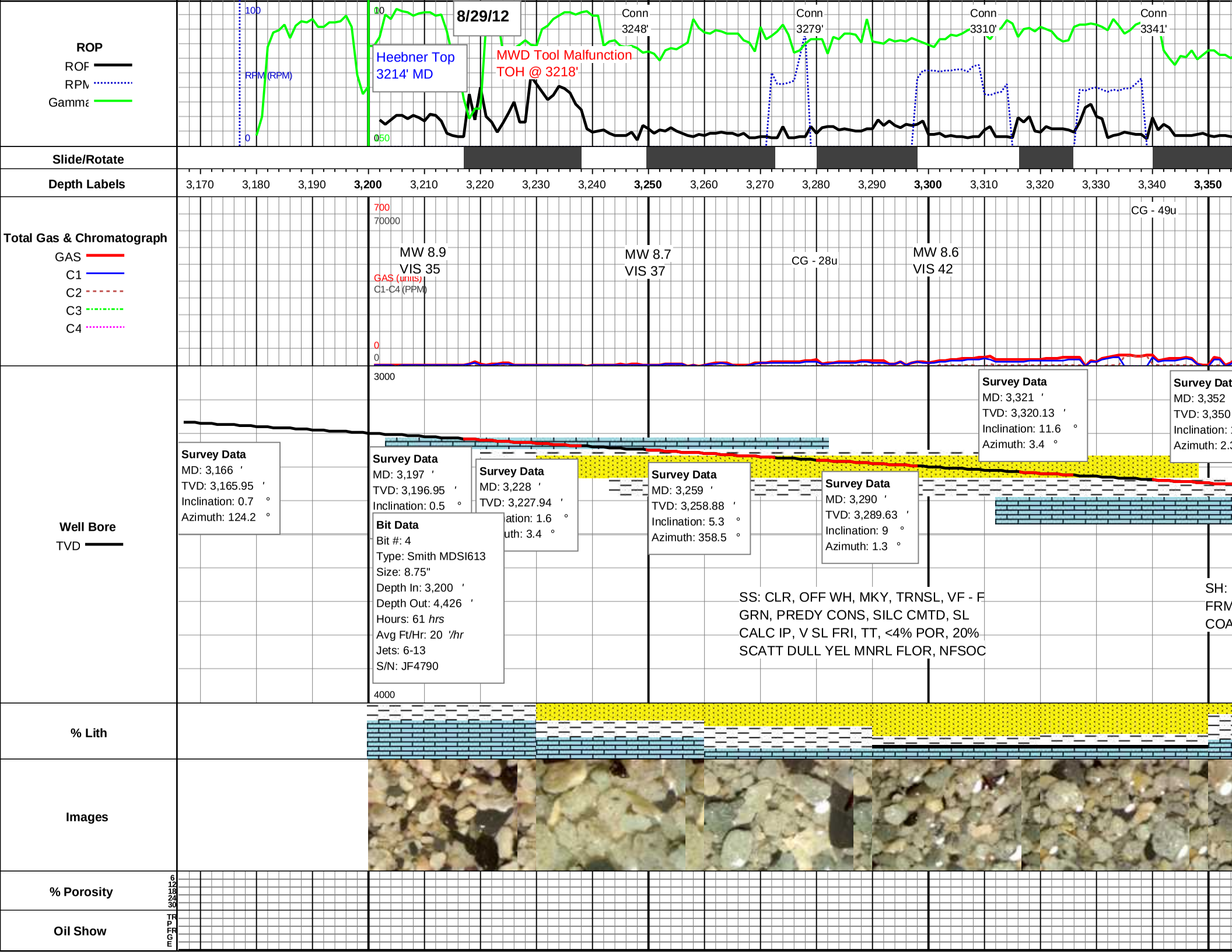
- ANGULAR
- ROUNDED
- SUBANG
- SUBRND

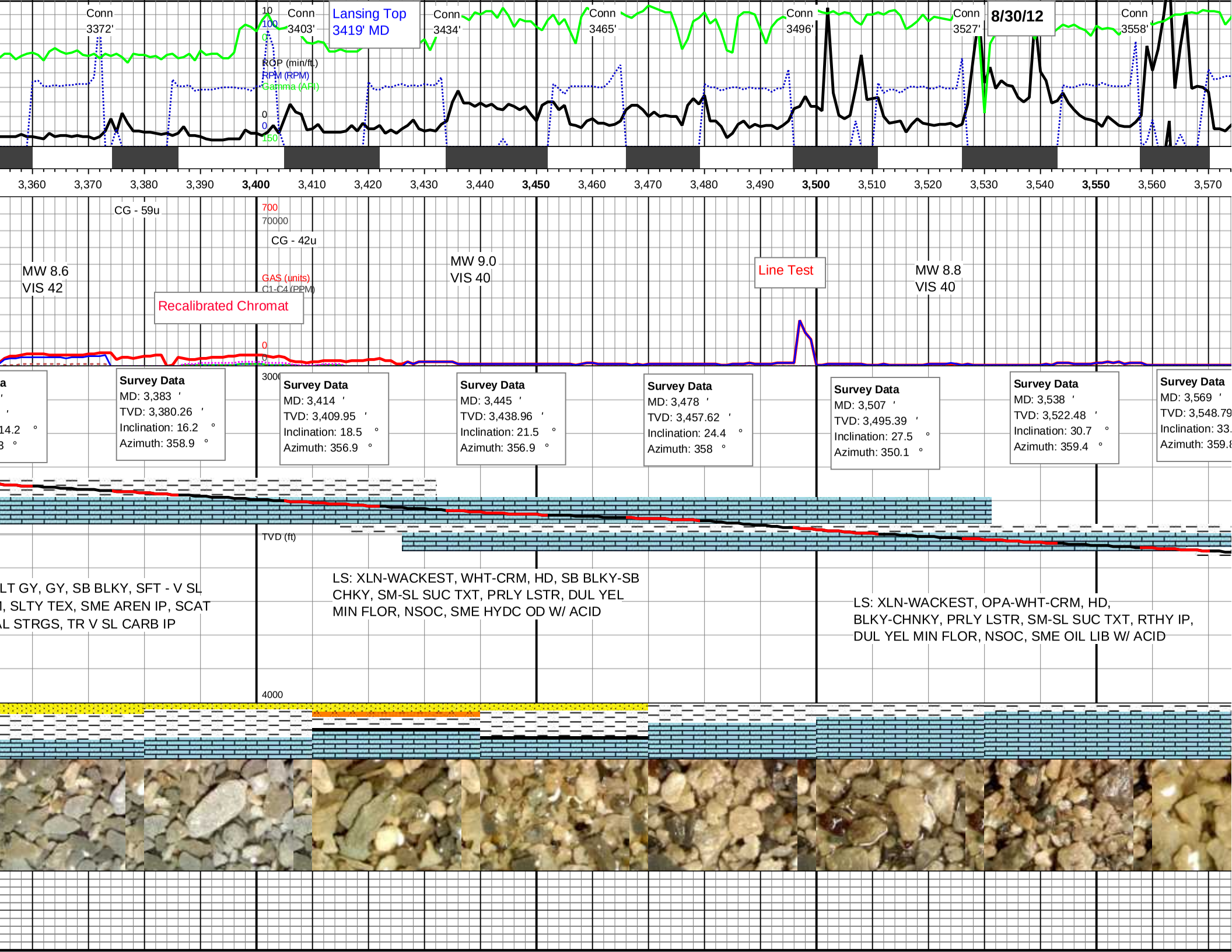
Textures

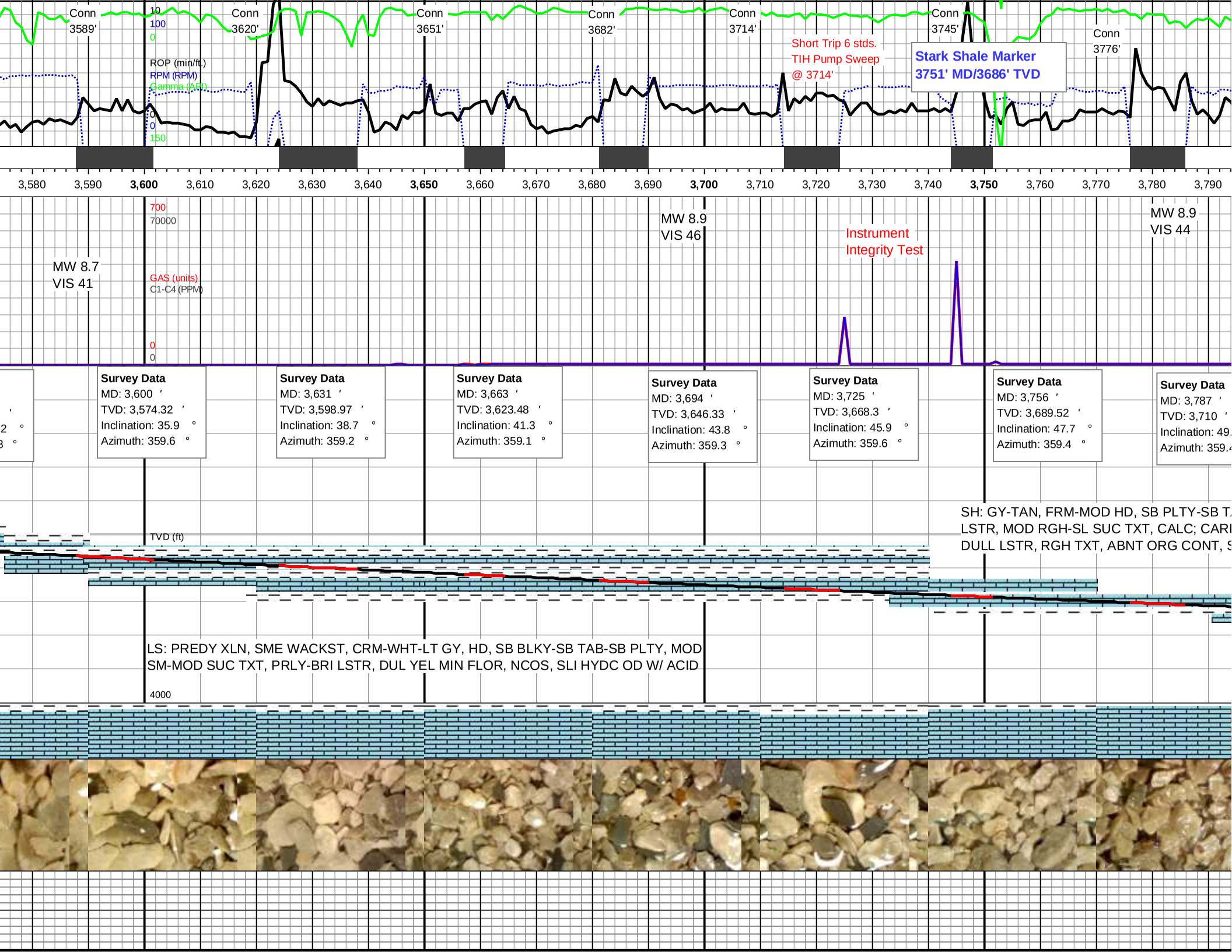
- BOUNDSTONE
- CHALKY
- CRYPTOXLN
- EARTHY
- FINELYXLN
- GRAINSTONE
- LITHOGRAPHIC
- MICROXLN
- MUDSTONE
- PACKSTONE
- WACKESTONE

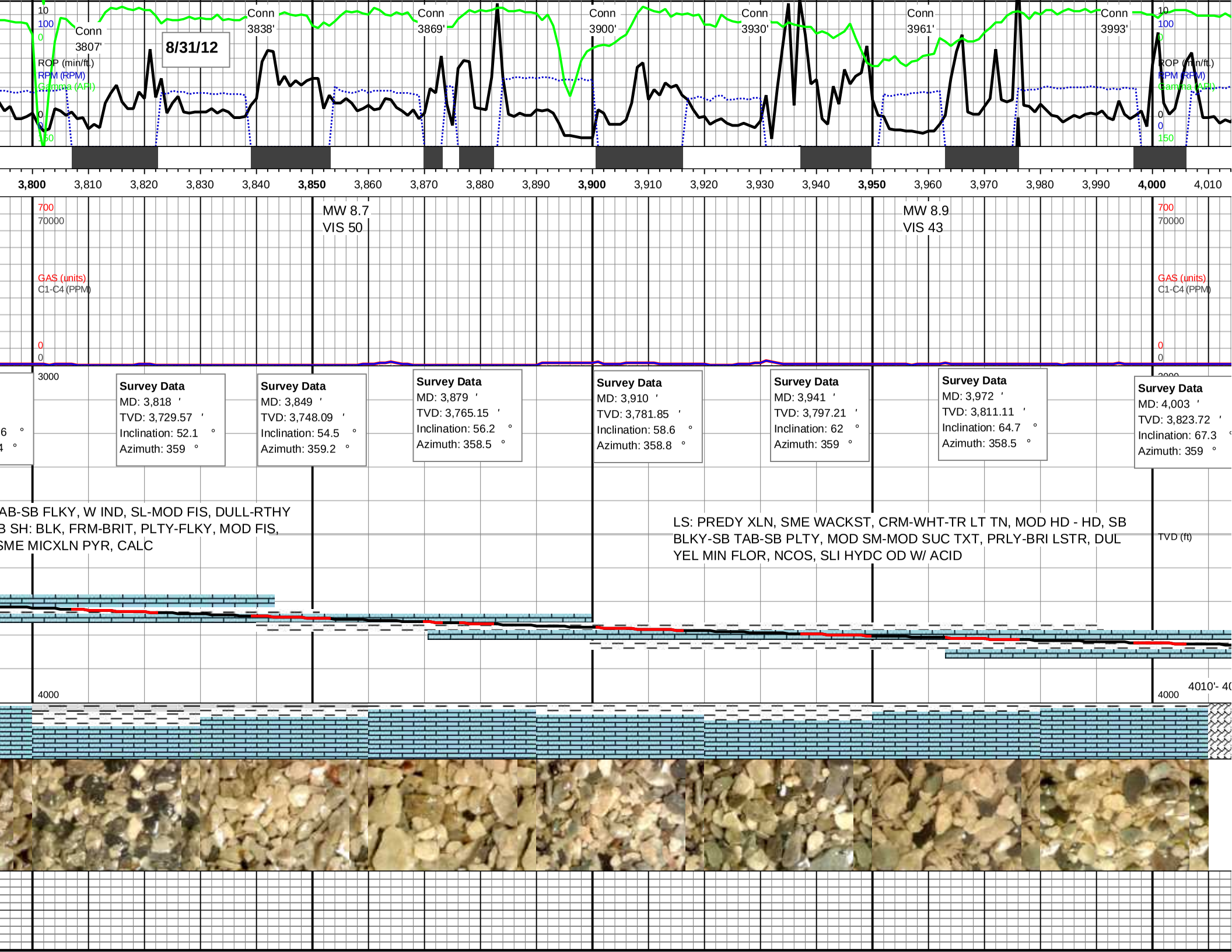
Sorting

- MODERATE
- POOR
- WELL


ROP
ROP
RPM
Gamma
100
RPM (RPM)
0
10
050
8/29/12
Heebner Top
3214' MD
MWD Tool Malfunction
TOH @ 3218'
Conn
3248'
Conn
3279'
Conn
3310'
Conn
3341'
Slide/Rotate
Depth Labels
3,170
3,180
3,190
3,200
3,210
3,220
3,230
3,240
3,250
3,260
3,270
3,280
3,290
3,300
3,310
3,320
3,330
3,340
3,350
Total Gas & Chromatograph
GAS
C1
C2
C3
C4
700
70000
GAS (units)
C1-C4 (PPM)
0
0
CG - 49u
MW 8.9
VIS 35
MW 8.7
VIS 37
CG - 28u
MW 8.6
VIS 42
Well Bore
TVD
3000
Survey Data
MD: 3,166 '
TVD: 3,165.95 '
Inclination: 0.7 °
Azimuth: 124.2 °
Survey Data
MD: 3,197 '
TVD: 3,196.95 '
Inclination: 0.5 °
Survey Data
MD: 3,228 '
TVD: 3,227.94 '
ation: 1.6 °
uth: 3.4 °
Survey Data
MD: 3,259 '
TVD: 3,258.88 '
Inclination: 5.3 °
Azimuth: 358.5 °
Survey Data
MD: 3,290 '
TVD: 3,289.63 '
Inclination: 9 °
Azimuth: 1.3 °
Survey Data
MD: 3,321 '
TVD: 3,320.13 '
Inclination: 11.6 °
Azimuth: 3.4 °
Survey Dat
MD: 3,352
TVD: 3,350
Inclination:
Azimuth: 2.3
Bit Data
Bit #: 4
Type: Smith MDSI613
Size: 8.75"
Depth In: 3,200 '
Depth Out: 4,426 '
Hours: 61 hrs
Avg Ft/Hr: 20 '/hr
Jets: 6-13
S/N: JF4790
4000
SS: CLR, OFF WH, MKY, TRNSL, VF - F
GRN, PREDY CONS, SILC CMTD, SL
CALC IP, V SL FRI, TT, <4% POR, 20%
SCATT DULL YEL MNRL FLOR, NFSOC
SH:
FRM
COA
% Lith
Images
% Porosity
6
12
18
24
30
Oil Show
TR
PR
FR
CE


Conn 3372'
Conn 3403'
Lansing Top 3419' MD
Conn 3434'
Conn 3465'
Conn 3496'
Conn 3527'
8/30/12
Conn 3558'
ROP (min/ft)
RPM (RPM)
Gamma (API)
3,360 3,370 3,380 3,390 3,400 3,410 3,420 3,430 3,440 3,450 3,460 3,470 3,480 3,490 3,500 3,510 3,520 3,530 3,540 3,550 3,560 3,570
CG - 59u
CG - 42u
GAS (units)
C1-C4 (PPM)
MW 8.6
VIS 42
Recalibrated Chromat
MW 9.0
VIS 40
Line Test
MW 8.8
VIS 40
Survey Data
MD: 3,383 '
TVD: 3,380.26 '
Inclination: 16.2 °
Azimuth: 358.9 °
Survey Data
MD: 3,414 '
TVD: 3,409.95 '
Inclination: 18.5 °
Azimuth: 356.9 °
Survey Data
MD: 3,445 '
TVD: 3,438.96 '
Inclination: 21.5 °
Azimuth: 356.9 °
Survey Data
MD: 3,478 '
TVD: 3,457.62 '
Inclination: 24.4 °
Azimuth: 358 °
Survey Data
MD: 3,507 '
TVD: 3,495.39 '
Inclination: 27.5 °
Azimuth: 350.1 °
Survey Data
MD: 3,538 '
TVD: 3,522.48 '
Inclination: 30.7 °
Azimuth: 359.4 °
Survey Data
MD: 3,569 '
TVD: 3,548.79
Inclination: 33.
Azimuth: 359.8
TVD (ft)
LT GY, GY, SB BLKY, SFT - V SL
, SLTY TEX, SME AREN IP, SCAT
AL STRGS, TR V SL CARB IP
LS: XLN-WACKEST, WHT-CRM, HD, SB BLKY-SB CHKY, SM-SL SUC TXT, PRLY LSTR, DUL YEL MIN FLOR, NSOC, SME HYDC OD W/ ACID
LS: XLN-WACKEST, OPA-WHT-CRM, HD, BLKY-CHNKY, PRLY LSTR, SM-SL SUC TXT, RTHY IP, DUL YEL MIN FLOR, NSOC, SME OIL LIB W/ ACID


Conn 3589'
Conn 3620'
Conn 3651'
Conn 3682'
Conn 3714'
Conn 3745'
Conn 3776'
10
100
0
ROP (min/ft)
RPM (RPM)
Gamma (API)
0
0
150
Short Trip 6 stds.
TIH Pump Sweep
@ 3714'
Stark Shale Marker
3751' MD/3686' TVD
3,580 3,590 3,600 3,610 3,620 3,630 3,640 3,650 3,660 3,670 3,680 3,690 3,700 3,710 3,720 3,730 3,740 3,750 3,760 3,770 3,780 3,790
700
70000
GAS (units)
C1-C4 (PPM)
0
0
MW 8.7
VIS 41
MW 8.9
VIS 46
Instrument
Integrity Test
MW 8.9
VIS 44
Survey Data
MD: 3,600 '
TVD: 3,574.32 '
Inclination: 35.9 °
Azimuth: 359.6 °
Survey Data
MD: 3,631 '
TVD: 3,598.97 '
Inclination: 38.7 °
Azimuth: 359.2 °
Survey Data
MD: 3,663 '
TVD: 3,623.48 '
Inclination: 41.3 °
Azimuth: 359.1 °
Survey Data
MD: 3,694 '
TVD: 3,646.33 '
Inclination: 43.8 °
Azimuth: 359.3 °
Survey Data
MD: 3,725 '
TVD: 3,668.3 '
Inclination: 45.9 °
Azimuth: 359.6 °
Survey Data
MD: 3,756 '
TVD: 3,689.52 '
Inclination: 47.7 °
Azimuth: 359.4 °
Survey Data
MD: 3,787 '
TVD: 3,710 '
Inclination: 49.
Azimuth: 359.4
TVD (ft)
SH: GY-TAN, FRM-MOD HD, SB PLTY-SB T
LSTR, MOD RGH-SL SUC TXT, CALC; CARI
DULL LSTR, RGH TXT, ABNT ORG CONT, S
LS: PREDY XLN, SME WACKST, CRM-WHT-LT GY, HD, SB BLKY-SB TAB-SB PLTY, MOD
SM-MOD SUC TXT, PRLY-BRI LSTR, DUL YEL MIN FLOR, NCOS, SLI HYDC OD W/ ACID
4000


10
100
0
Conn
3807'
8/31/12
Conn
3838'
Conn
3869'
Conn
3900'
Conn
3930'
Conn
3961'
Conn
3993'
ROP (min/ft)
RPM (RPM)
Gamma (API)
0
0
150
3,800
3,810
3,820
3,830
3,840
3,850
3,860
3,870
3,880
3,890
3,900
3,910
3,920
3,930
3,940
3,950
3,960
3,970
3,980
3,990
4,000
4,010
700
70000
GAS (units)
C1-C4 (PPM)
MW 8.7
VIS 50
MW 8.9
VIS 43
3000
Survey Data
MD: 3,818 '
TVD: 3,729.57 '
Inclination: 52.1 °
Azimuth: 359 °
Survey Data
MD: 3,849 '
TVD: 3,748.09 '
Inclination: 54.5 °
Azimuth: 359.2 °
Survey Data
MD: 3,879 '
TVD: 3,765.15 '
Inclination: 56.2 °
Azimuth: 358.5 °
Survey Data
MD: 3,910 '
TVD: 3,781.85 '
Inclination: 58.6 °
Azimuth: 358.8 °
Survey Data
MD: 3,941 '
TVD: 3,797.21 '
Inclination: 62 °
Azimuth: 359 °
Survey Data
MD: 3,972 '
TVD: 3,811.11 '
Inclination: 64.7 °
Azimuth: 358.5 °
Survey Data
MD: 4,003 '
TVD: 3,823.72 '
Inclination: 67.3 °
Azimuth: 359 °
AB-SB FLKY, W IND, SL-MOD FIS, DULL-RTHY
B SH: BLK, FRM-BRIT, PLTY-FLKY, MOD FIS,
SME MICXLN PYR, CALC
LS: PREDY XLN, SME WACKST, CRM-WHT-TR LT TN, MOD HD - HD, SB
BLKY-SB TAB-SB PLTY, MOD SM-MOD SUC TXT, PRLY-BRI LSTR, DUL
YEL MIN FLOR, NCOS, SLI HYDC OD W/ ACID
TVD (ft)
4000
4010'- 40
4000

Conn 4023'

Conn 4054'

Conn 4085'

Conn 4116'

Conn 4147'

Conn 4178'

Conn 4209'

CHEROKEE SHALE
4126' MD/3866' TVD

9/1/12

10
100
0
ROP (min/ft)
RPM (RPM)
Gamma (API)
0
0
150

4,020 4,030 4,040 **4,050** 4,060 4,070 4,080 4,090 **4,100** 4,110 4,120 4,130 4,140 **4,150** 4,160 4,170 4,180 4,190 **4,200** 4,210 4,220 4,230

MW 8.9
VIS 40

MW 9.0
VIS 39

700
70000
GAS (units)
C1-C4 (PPM)

CG - 86u

0
0

3000

TVD (ft)

4000

Survey Data
MD: 4,034 '
TVD: 3,835.13 '
Inclination: 69.5 °
Azimuth: 359.8 °

Survey Data
MD: 4,065 '
TVD: 3,845.73 '
Inclination: 70.5 °
Azimuth: 359.7 °

Survey Data
MD: 4,096 '
TVD: 3,855.9 '
Inclination: 71.2 °
Azimuth: 359.4 °

Survey Data
MD: 4,127 '
TVD: 3,865.79 '
Inclination: 71.5 °
Azimuth: 359 °

Survey Data
MD: 4,158 '
TVD: 3,875.42 '
Inclination: 72.2 °
Azimuth: 359.1 °

Survey Data
MD: 4,189 '
TVD: 3,884.62 '
Inclination: 73.4 °
Azimuth: 358.9 °

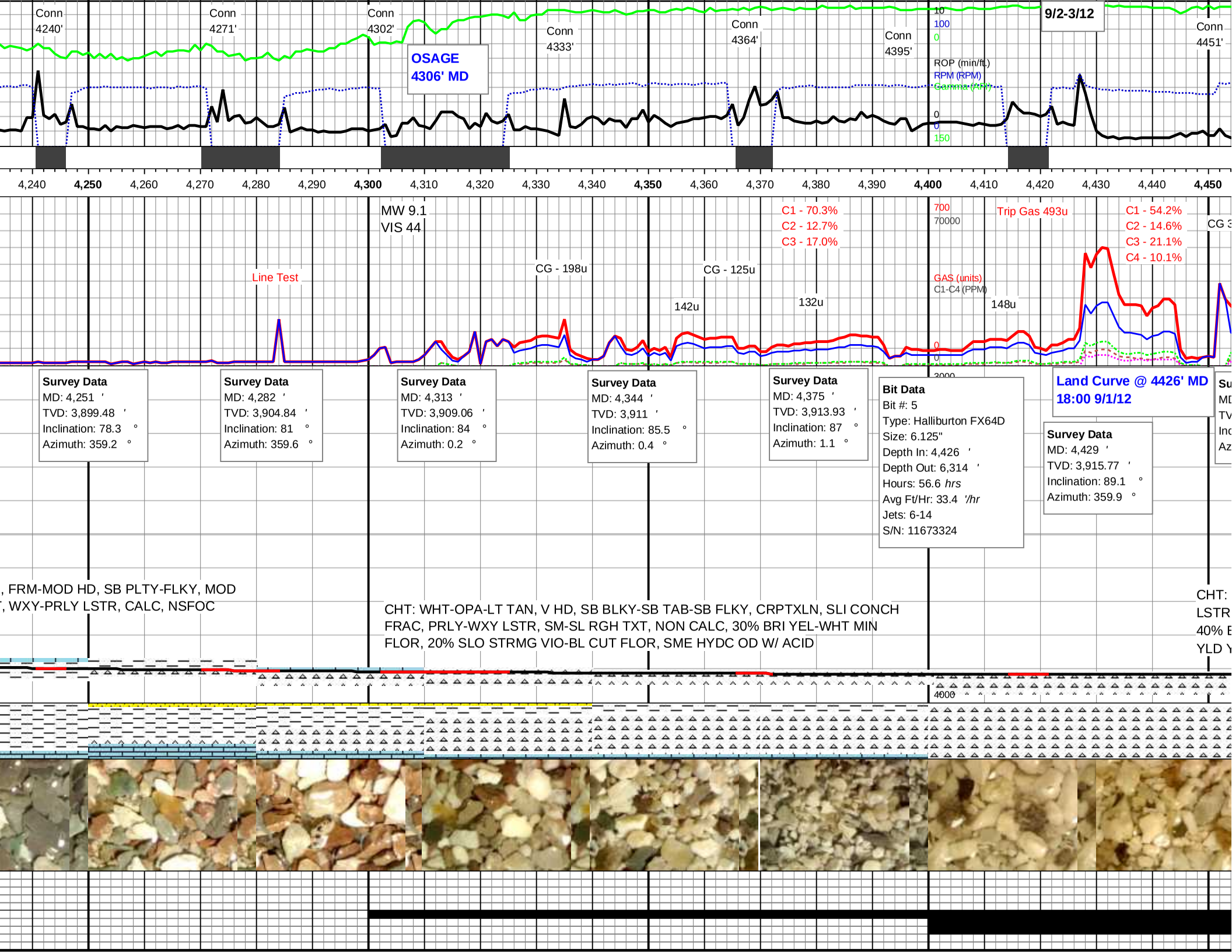
Survey Data
MD: 4,220 '
TVD: 3,892.69 '
Inclination: 76.4 °
Azimuth: 359 °

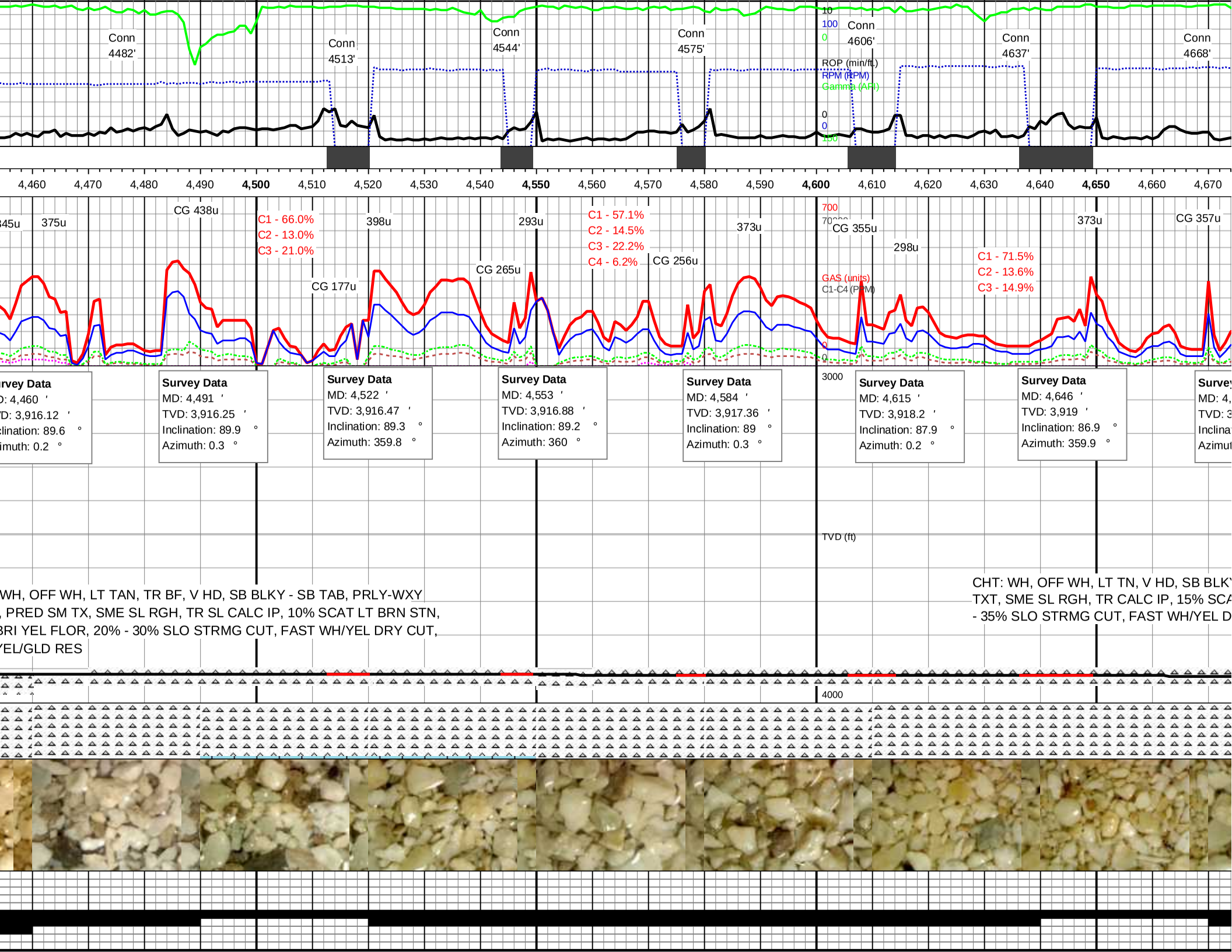
SH: GY-TAN, FRM, BRIT, PLTY-FLKY, MOD FIS, SM TXT, WXY-PRLY LSTR, V MRLY, CALC, NSFOC

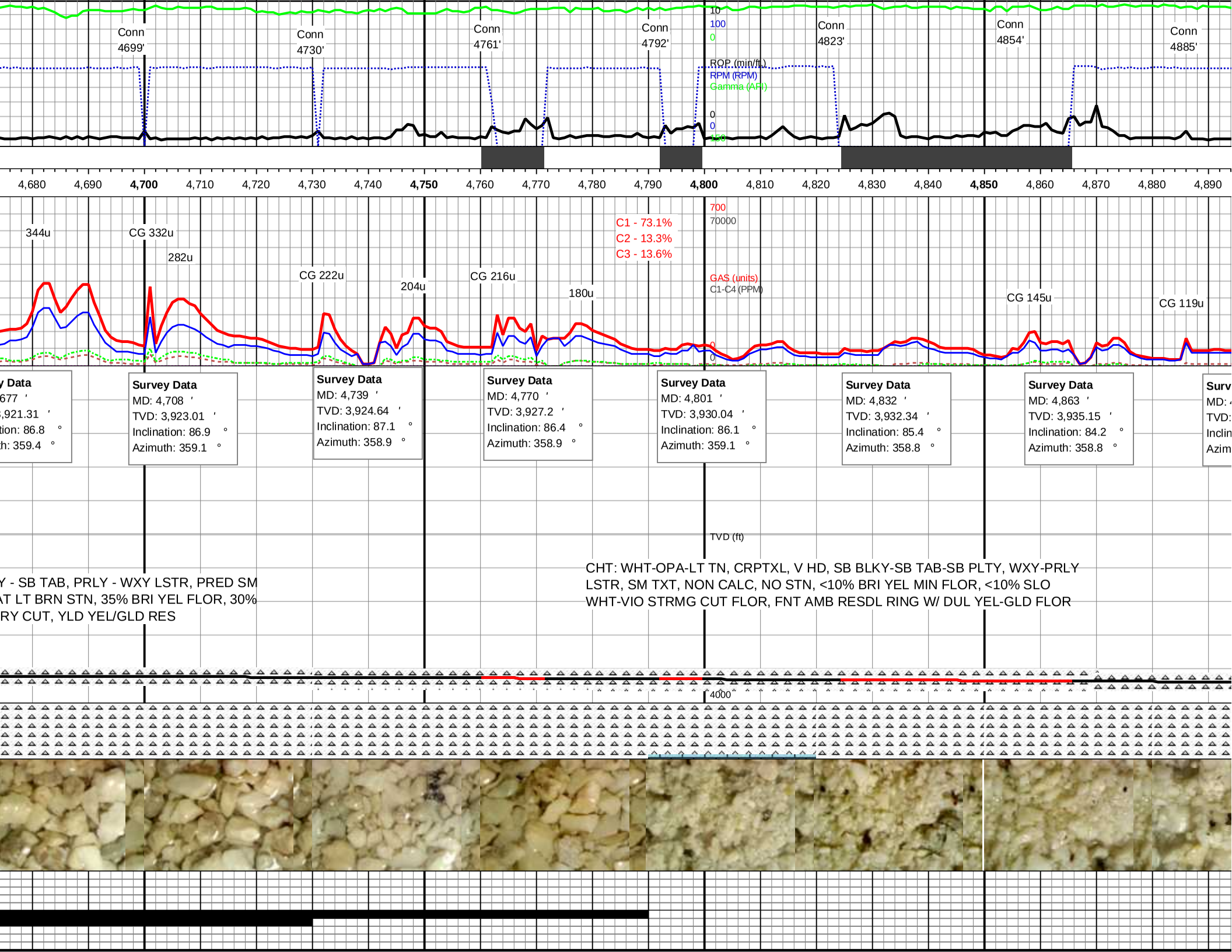
LS: XLN-CYXLN, SME WACKST, WHT-CRM-OPA, FRM-V HD, SB BLKY-CHUNKY, SM-SLI SUC TXT, PRLY-WXY LSTR, DUL YEL MIN FLOR, NSOC

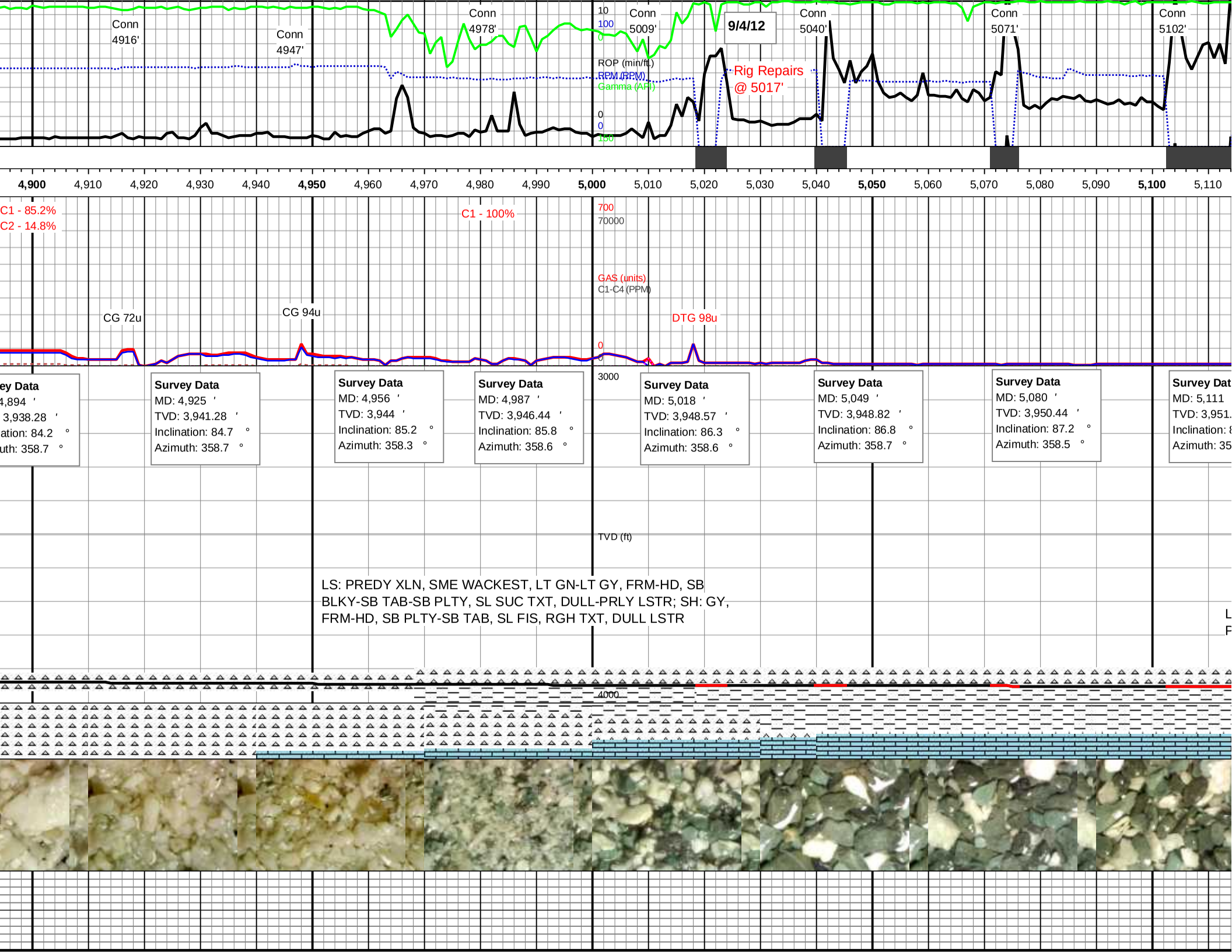
SH: GY-TAN
FIS, SM TXT

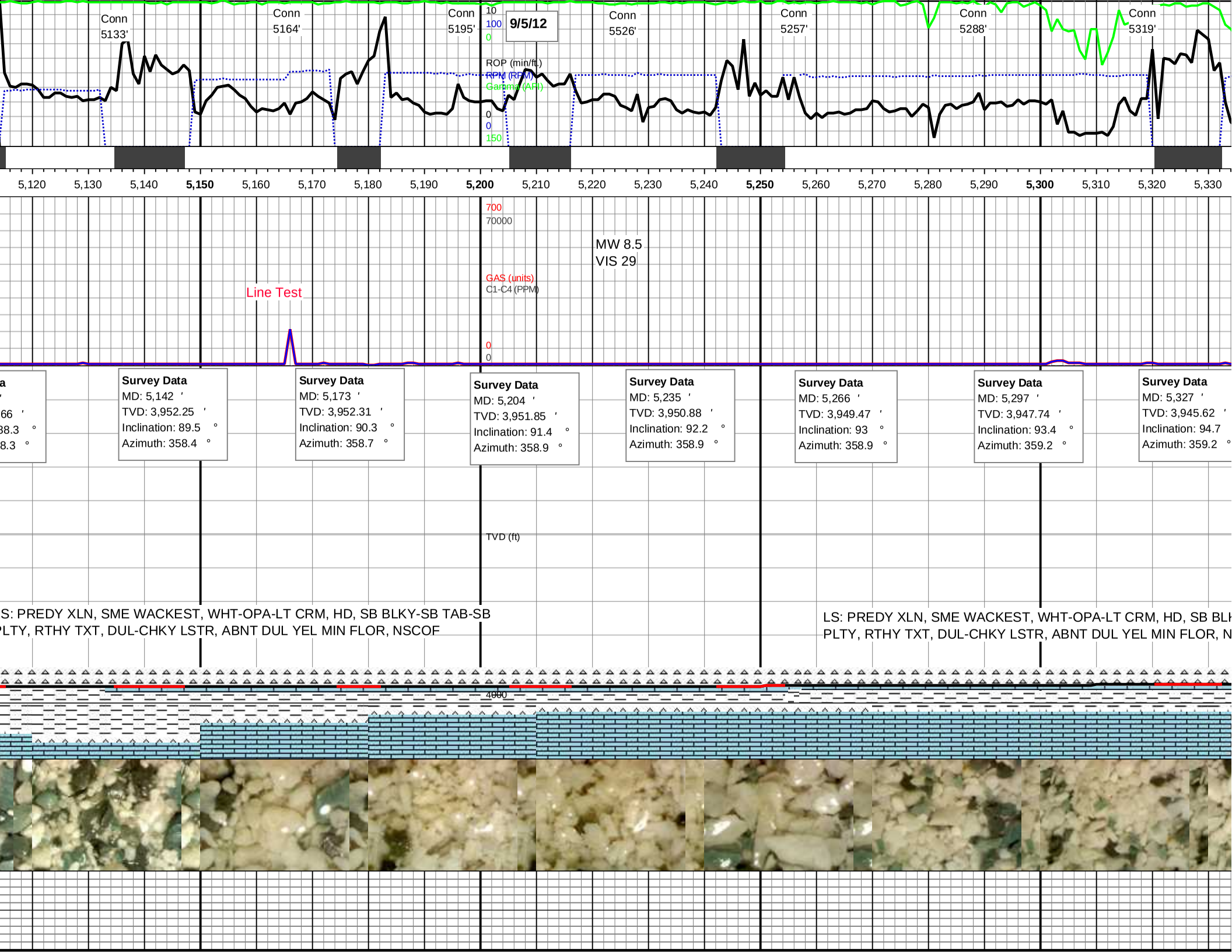
070' VERY POOR SAMPLE QUALITY - ABUNDANT LCM

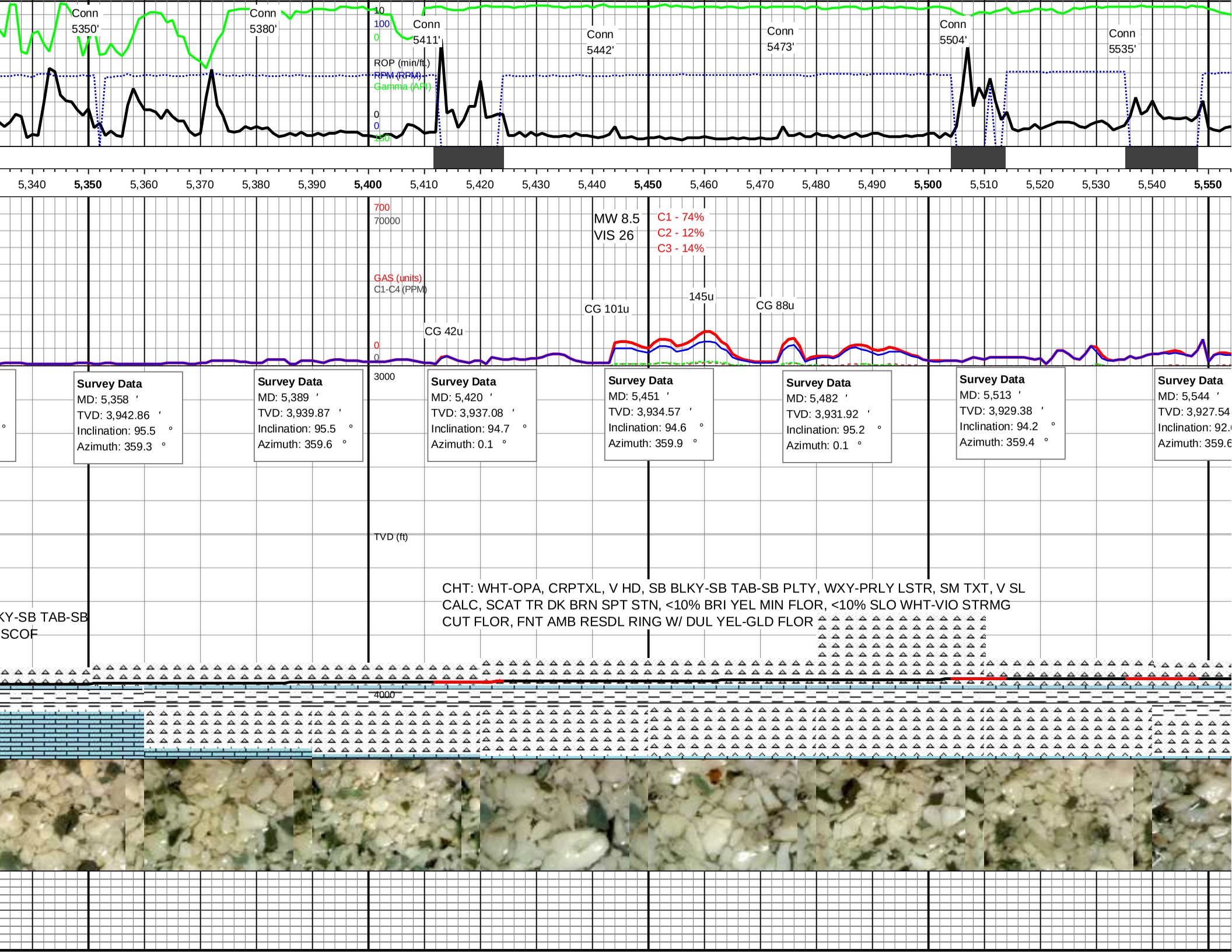

Conn 4240'
Conn 4271'
Conn 4302'
Conn 4333'
Conn 4364'
Conn 4395'
Conn 4451'
OSAGE
4306' MD
9/2-3/12
10
100
0
ROP (min/ft)
RPM (RPM)
Gamma (API)
0
0
150
4,240 4,250 4,260 4,270 4,280 4,290 4,300 4,310 4,320 4,330 4,340 4,350 4,360 4,370 4,380 4,390 4,400 4,410 4,420 4,430 4,440 4,450
MW 9.1
VIS 44
Line Test
CG - 198u
CG - 125u
142u
132u
148u
C1 - 70.3%
C2 - 12.7%
C3 - 17.0%
Trip Gas 493u
C1 - 54.2%
C2 - 14.6%
C3 - 21.1%
C4 - 10.1%
700
70000
GAS (units)
C1-C4 (PPM)
0
0
3000
Survey Data
MD: 4,251 '
TVD: 3,899.48 '
Inclination: 78.3 °
Azimuth: 359.2 °
Survey Data
MD: 4,282 '
TVD: 3,904.84 '
Inclination: 81 °
Azimuth: 359.6 °
Survey Data
MD: 4,313 '
TVD: 3,909.06 '
Inclination: 84 °
Azimuth: 0.2 °
Survey Data
MD: 4,344 '
TVD: 3,911 '
Inclination: 85.5 °
Azimuth: 0.4 °
Survey Data
MD: 4,375 '
TVD: 3,913.93 '
Inclination: 87 °
Azimuth: 1.1 °
Bit Data
Bit #: 5
Type: Halliburton FX64D
Size: 6.125"
Depth In: 4,426 '
Depth Out: 6,314 '
Hours: 56.6 hrs
Avg Ft/Hr: 33.4 '/hr
Jets: 6-14
S/N: 11673324
Land Curve @ 4426' MD
18:00 9/1/12
Survey Data
MD: 4,429 '
TVD: 3,915.77 '
Inclination: 89.1 °
Azimuth: 359.9 °
, FRM-MOD HD, SB PLTY-FLKY, MOD
, WXY-PRLY LSTR, CALC, NSFOC
CHT: WHT-OPA-LT TAN, V HD, SB BLKY-SB TAB-SB FLKY, CRPTXLN, SLI CONCH FRAC, PRLY-WXY LSTR, SM-SL RGH TXT, NON CALC, 30% BRI YEL-WHT MIN FLOR, 20% SLO STRMG VIO-BL CUT FLOR, SME HYDC OD W/ ACID
CHT:
LSTR
40% B
YLD Y
4000

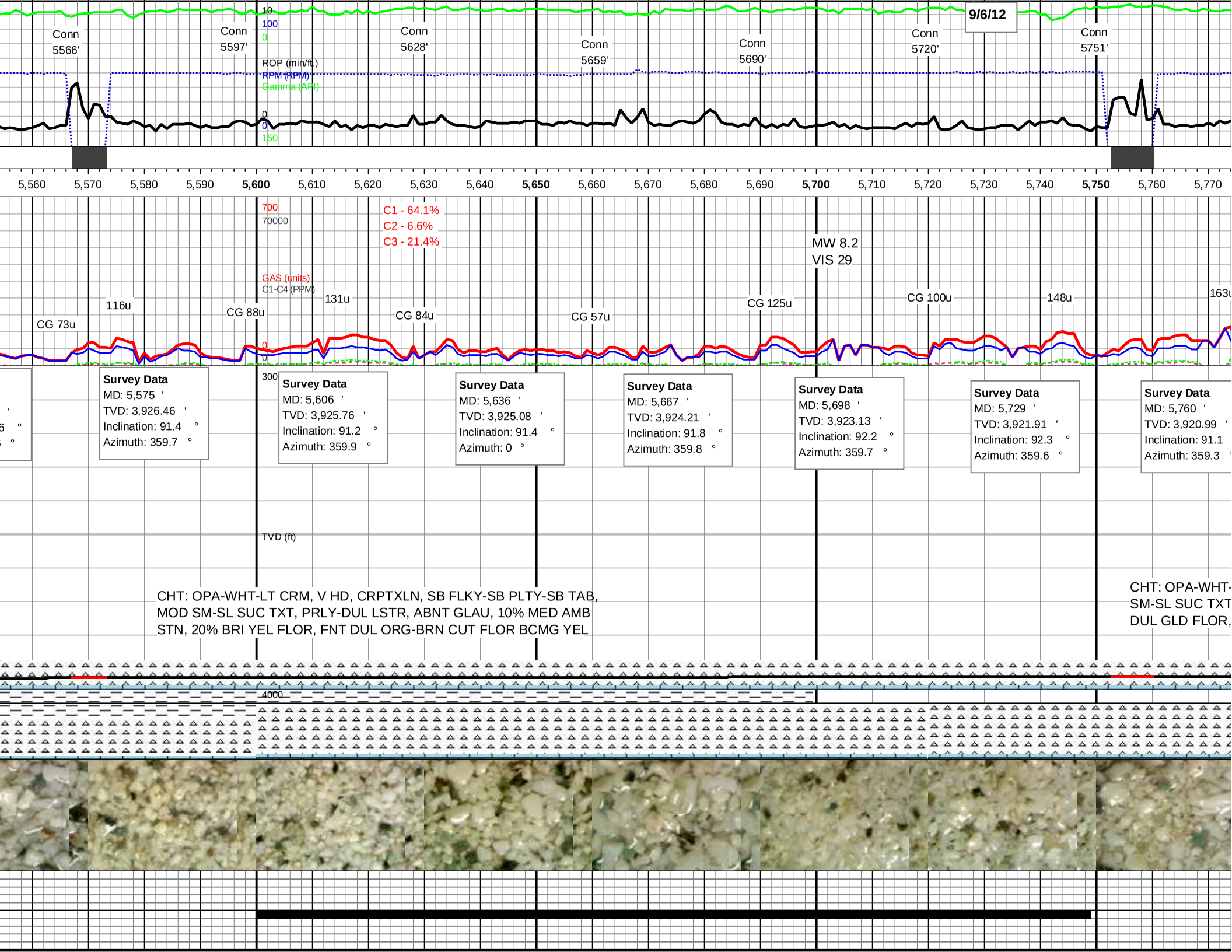

Conn 4482'
Conn 4513'
Conn 4544'
Conn 4575'
Conn 4606'
Conn 4637'
Conn 4668'
ROP (min/ft)
RPM (RPM)
Gamma (API)
4,460 4,470 4,480 4,490 4,500 4,510 4,520 4,530 4,540 4,550 4,560 4,570 4,580 4,590 4,600 4,610 4,620 4,630 4,640 4,650 4,660 4,670
CG 438u
375u
398u
293u
373u
CG 355u
298u
373u
CG 357u
CG 177u
CG 265u
CG 256u
C1 - 66.0%
C2 - 13.0%
C3 - 21.0%
C1 - 57.1%
C2 - 14.5%
C3 - 22.2%
C4 - 6.2%
C1 - 71.5%
C2 - 13.6%
C3 - 14.9%
GAS (units)
C1-C4 (PPM)
Survey Data
MD: 4,460 '
TVD: 3,916.12 '
Inclination: 89.6 °
Azimuth: 0.2 °
Survey Data
MD: 4,491 '
TVD: 3,916.25 '
Inclination: 89.9 °
Azimuth: 0.3 °
Survey Data
MD: 4,522 '
TVD: 3,916.47 '
Inclination: 89.3 °
Azimuth: 359.8 °
Survey Data
MD: 4,553 '
TVD: 3,916.88 '
Inclination: 89.2 °
Azimuth: 360 °
Survey Data
MD: 4,584 '
TVD: 3,917.36 '
Inclination: 89 °
Azimuth: 0.3 °
Survey Data
MD: 4,615 '
TVD: 3,918.2 '
Inclination: 87.9 °
Azimuth: 0.2 °
Survey Data
MD: 4,646 '
TVD: 3,919 '
Inclination: 86.9 °
Azimuth: 359.9 °
TVD (ft)
WH, OFF WH, LT TAN, TR BF, V HD, SB BLKY - SB TAB, PRLY-WXY
, PRED SM TX, SME SL RGH, TR SL CALC IP, 10% SCAT LT BRN STN,
BRI YEL FLOR, 20% - 30% SLO STRMG CUT, FAST WH/YEL DRY CUT,
YEL/GLD RES
CHT: WH, OFF WH, LT TN, V HD, SB BLK
TXT, SME SL RGH, TR CALC IP, 15% SCA
- 35% SLO STRMG CUT, FAST WH/YEL D

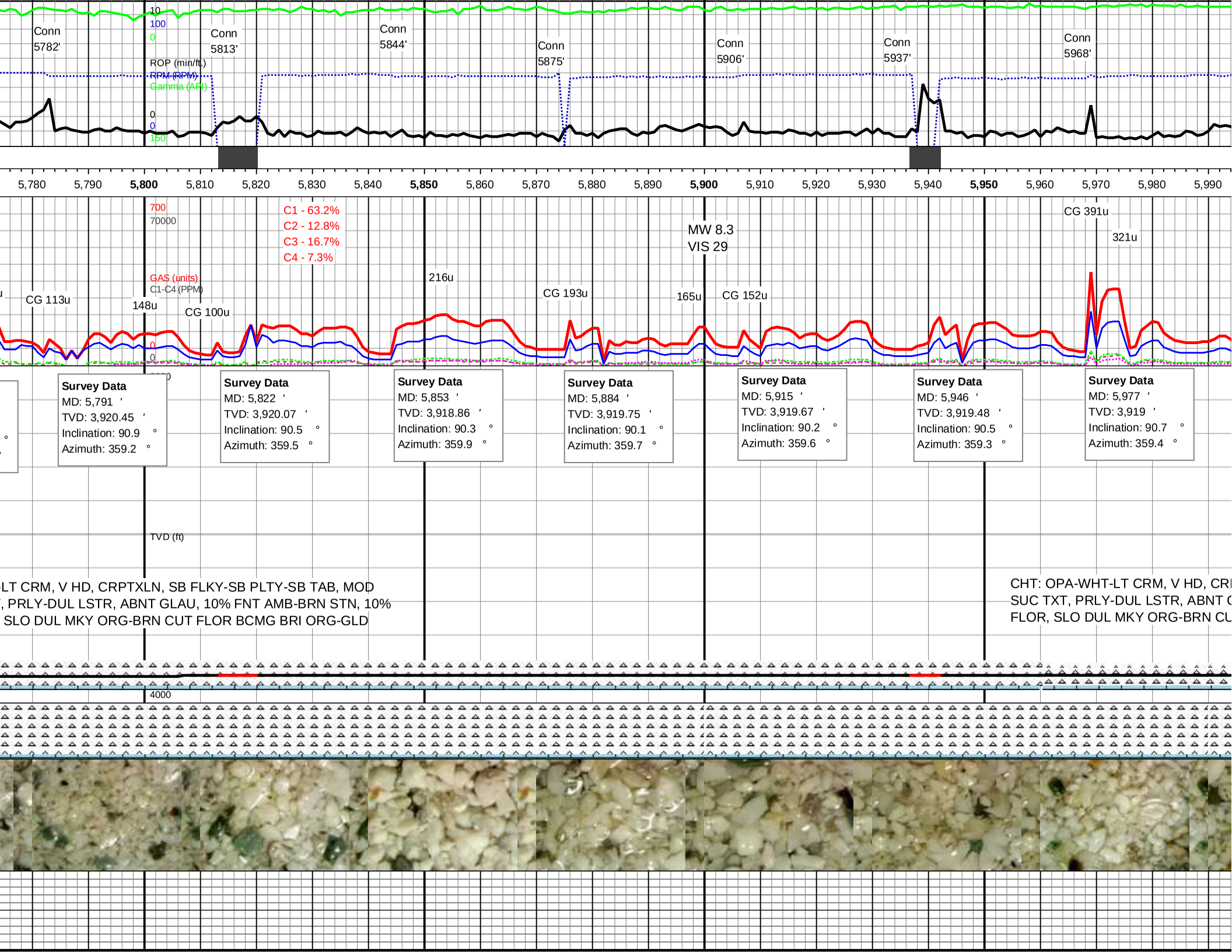

Conn 4699'
Conn 4730'
Conn 4761'
Conn 4792'
Conn 4823'
Conn 4854'
Conn 4885'
10
100
0
ROP (min/ft)
RPM (RPM)
Gamma (API)
0
0
150
4,680
4,690
4,700
4,710
4,720
4,730
4,740
4,750
4,760
4,770
4,780
4,790
4,800
4,810
4,820
4,830
4,840
4,850
4,860
4,870
4,880
4,890
344u
CG 332u
282u
CG 222u
204u
CG 216u
180u
CG 145u
CG 119u
C1 - 73.1%
C2 - 13.3%
C3 - 13.6%
700
70000
GAS (units)
C1-C4 (PPM)
0
0
Survey Data
MD: 4,708 '
TVD: 3,923.01 '
Inclination: 86.9 °
Azimuth: 359.1 °
Survey Data
MD: 4,739 '
TVD: 3,924.64 '
Inclination: 87.1 °
Azimuth: 358.9 °
Survey Data
MD: 4,770 '
TVD: 3,927.2 '
Inclination: 86.4 °
Azimuth: 358.9 °
Survey Data
MD: 4,801 '
TVD: 3,930.04 '
Inclination: 86.1 °
Azimuth: 359.1 °
Survey Data
MD: 4,832 '
TVD: 3,932.34 '
Inclination: 85.4 °
Azimuth: 358.8 °
Survey Data
MD: 4,863 '
TVD: 3,935.15 '
Inclination: 84.2 °
Azimuth: 358.8 °
TVD (ft)
CHT: WHT-OPA-LT TN, CRPTXL, V HD, SB BLKY-SB TAB-SB PLTY, WXY-PRLY
LSTR, SM TXT, NON CALC, NO STN, <10% BRI YEL MIN FLOR, <10% SLO
WHT-VIO STRMG CUT FLOR, FNT AMB RESDL RING W/ DUL YEL-GLD FLOR
4000

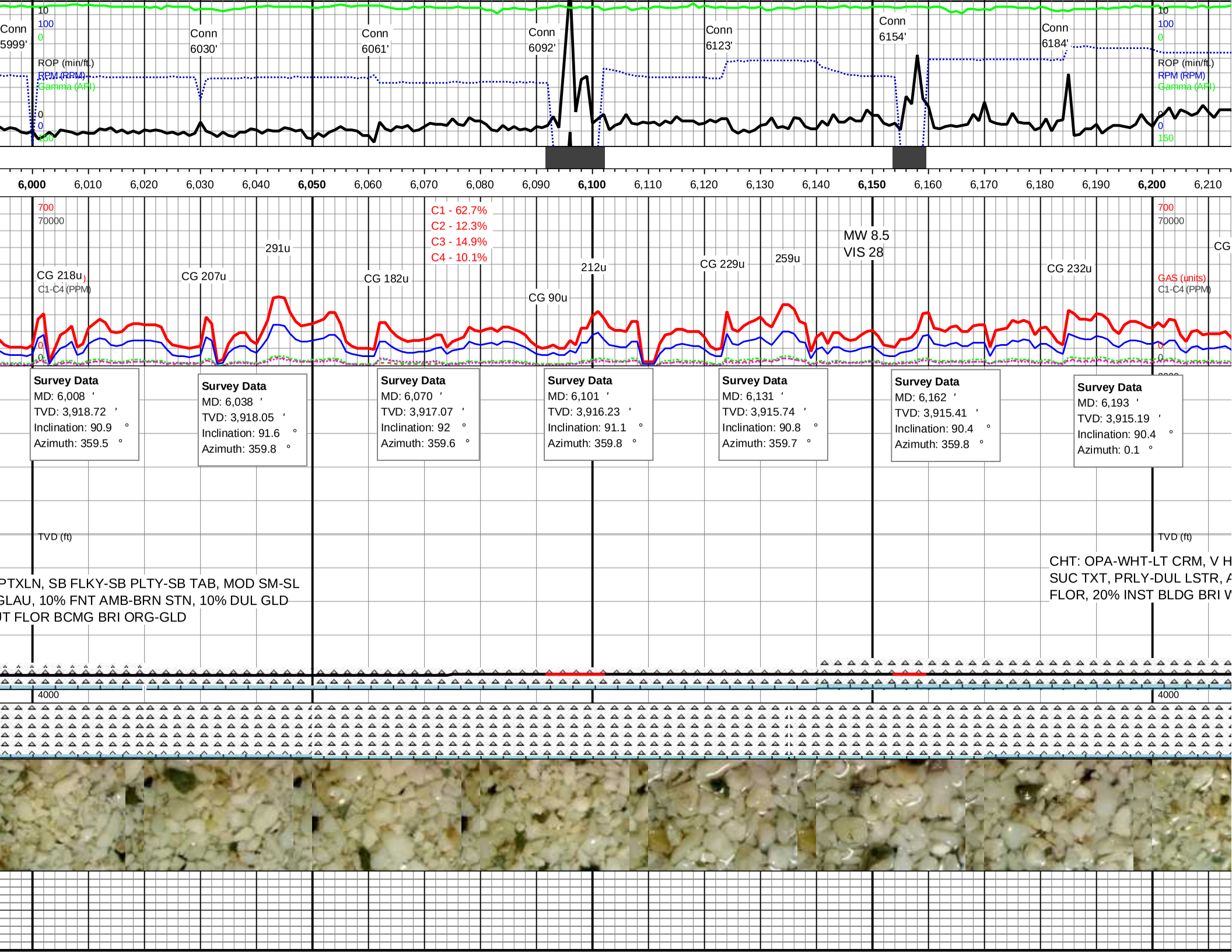

Conn 4916'
Conn 4947'
Conn 4978'
Conn 5009'
Conn 5040'
Conn 5071'
Conn 5102'
9/4/12
Rig Repairs @ 5017'
ROP (min/ft)
RPM (RPM)
Gamma (API)
10
100
0
0
0
150
4,900
4,910
4,920
4,930
4,940
4,950
4,960
4,970
4,980
4,990
5,000
5,010
5,020
5,030
5,040
5,050
5,060
5,070
5,080
5,090
5,100
5,110
C1 - 85.2%
C2 - 14.8%
C1 - 100%
700
70000
GAS (units)
C1-C4 (PPM)
CG 72u
CG 94u
DTG 98u
0
0
3000
Survey Data
MD: 4,925 '
TVD: 3,941.28 '
Inclination: 84.7 °
Azimuth: 358.7 °
Survey Data
MD: 4,956 '
TVD: 3,944 '
Inclination: 85.2 °
Azimuth: 358.3 °
Survey Data
MD: 4,987 '
TVD: 3,946.44 '
Inclination: 85.8 °
Azimuth: 358.6 °
Survey Data
MD: 5,018 '
TVD: 3,948.57 '
Inclination: 86.3 °
Azimuth: 358.6 °
Survey Data
MD: 5,049 '
TVD: 3,948.82 '
Inclination: 86.8 °
Azimuth: 358.7 °
Survey Data
MD: 5,080 '
TVD: 3,950.44 '
Inclination: 87.2 °
Azimuth: 358.5 °
TVD (ft)
LS: PREDY XLN, SME WACKEST, LT GN-LT GY, FRM-HD, SB BLKY-SB TAB-SB PLTY, SL SUC TXT, DULL-PRLY LSTR; SH: GY, FRM-HD, SB PLTY-SB TAB, SL FIS, RGH TXT, DULL LSTR
4000

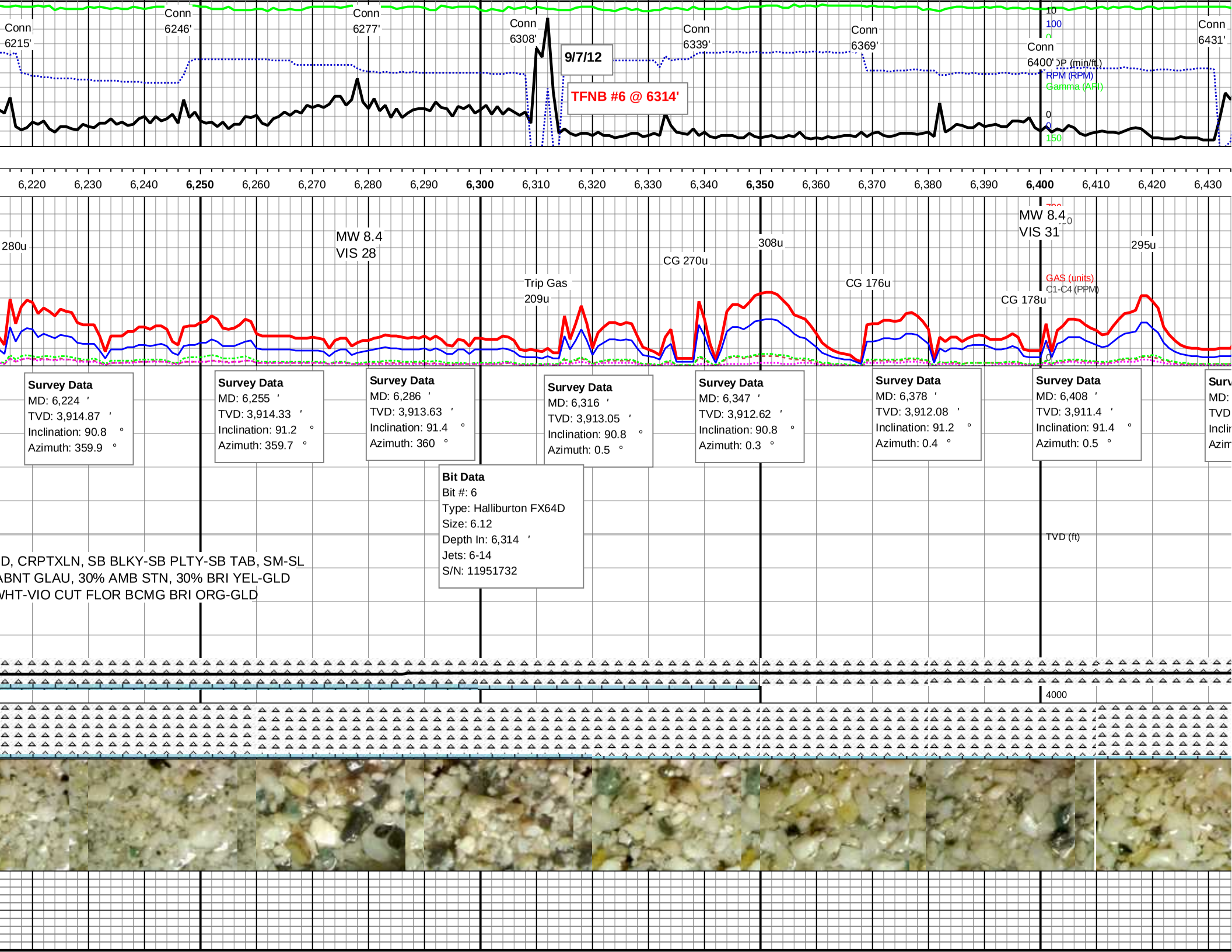

Conn
5133'
Conn
5164'
Conn
5195'
Conn
5526'
Conn
5257'
Conn
5288'
Conn
5319'
10
100
0
9/5/12
ROP (min/ft)
RPM (RPM)
Gamma (API)
0
0
150
5,120
5,130
5,140
5,150
5,160
5,170
5,180
5,190
5,200
5,210
5,220
5,230
5,240
5,250
5,260
5,270
5,280
5,290
5,300
5,310
5,320
5,330
700
70000
MW 8.5
VIS 29
GAS (units)
C1-C4 (PPM)
Line Test
0
0
Survey Data
MD: 5,142 '
TVD: 3,952.25 '
Inclination: 89.5 °
Azimuth: 358.4 °
Survey Data
MD: 5,173 '
TVD: 3,952.31 '
Inclination: 90.3 °
Azimuth: 358.7 °
Survey Data
MD: 5,204 '
TVD: 3,951.85 '
Inclination: 91.4 °
Azimuth: 358.9 °
Survey Data
MD: 5,235 '
TVD: 3,950.88 '
Inclination: 92.2 °
Azimuth: 358.9 °
Survey Data
MD: 5,266 '
TVD: 3,949.47 '
Inclination: 93 °
Azimuth: 358.9 °
Survey Data
MD: 5,297 '
TVD: 3,947.74 '
Inclination: 93.4 °
Azimuth: 359.2 °
Survey Data
MD: 5,327 '
TVD: 3,945.62 '
Inclination: 94.7
Azimuth: 359.2 °
TVD (ft)
S: PREDY XLN, SME WACKEST, WHT-OPA-LT CRM, HD, SB BLKY-SB TAB-SB
PLTY, RTHY TXT, DUL-CHKY LSTR, ABNT DUL YEL MIN FLOR, NSCOF
LS: PREDY XLN, SME WACKEST, WHT-OPA-LT CRM, HD, SB BL
PLTY, RTHY TXT, DUL-CHKY LSTR, ABNT DUL YEL MIN FLOR, N
4090

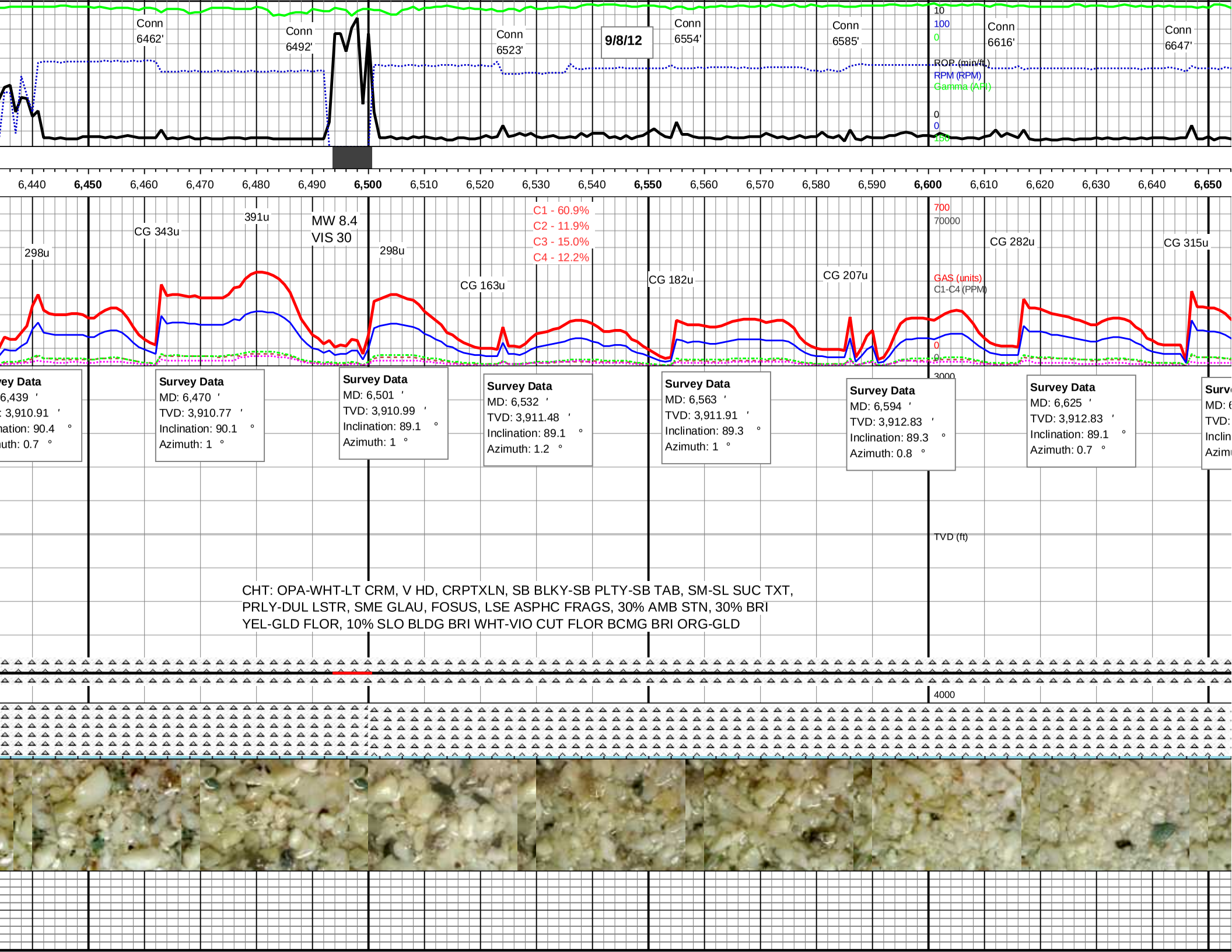

Conn 5350'
Conn 5380'
Conn 5411'
Conn 5442'
Conn 5473'
Conn 5504'
Conn 5535'
10
100
0
ROP (min/ft)
RPM (RPM)
Gamma (API)
0
0
250
5,340
5,350
5,360
5,370
5,380
5,390
5,400
5,410
5,420
5,430
5,440
5,450
5,460
5,470
5,480
5,490
5,500
5,510
5,520
5,530
5,540
5,550
700
70000
GAS (units)
C1-C4 (PPM)
0
0
3000
MW 8.5
VIS 26
C1 - 74%
C2 - 12%
C3 - 14%
CG 42u
CG 101u
145u
CG 88u
Survey Data
MD: 5,358 '
TVD: 3,942.86 '
Inclination: 95.5 °
Azimuth: 359.3 °
Survey Data
MD: 5,389 '
TVD: 3,939.87 '
Inclination: 95.5 °
Azimuth: 359.6 °
Survey Data
MD: 5,420 '
TVD: 3,937.08 '
Inclination: 94.7 °
Azimuth: 0.1 °
Survey Data
MD: 5,451 '
TVD: 3,934.57 '
Inclination: 94.6 °
Azimuth: 359.9 °
Survey Data
MD: 5,482 '
TVD: 3,931.92 '
Inclination: 95.2 °
Azimuth: 0.1 °
Survey Data
MD: 5,513 '
TVD: 3,929.38 '
Inclination: 94.2 °
Azimuth: 359.4 °
Survey Data
MD: 5,544 '
TVD: 3,927.54
Inclination: 92.
Azimuth: 359.6
TVD (ft)
CHT: WHT-OPA, CRPTXL, V HD, SB BLKY-SB TAB-SB PLTY, WXY-PRLY LSTR, SM TXT, V SL
CALC, SCAT TR DK BRN SPT STN, <10% BRI YEL MIN FLOR, <10% SLO WHT-VIO STRMG
CUT FLOR, FNT AMB RESDL RING W/ DUL YEL-GLD FLOR
KY-SB TAB-SB
SCOF
4000

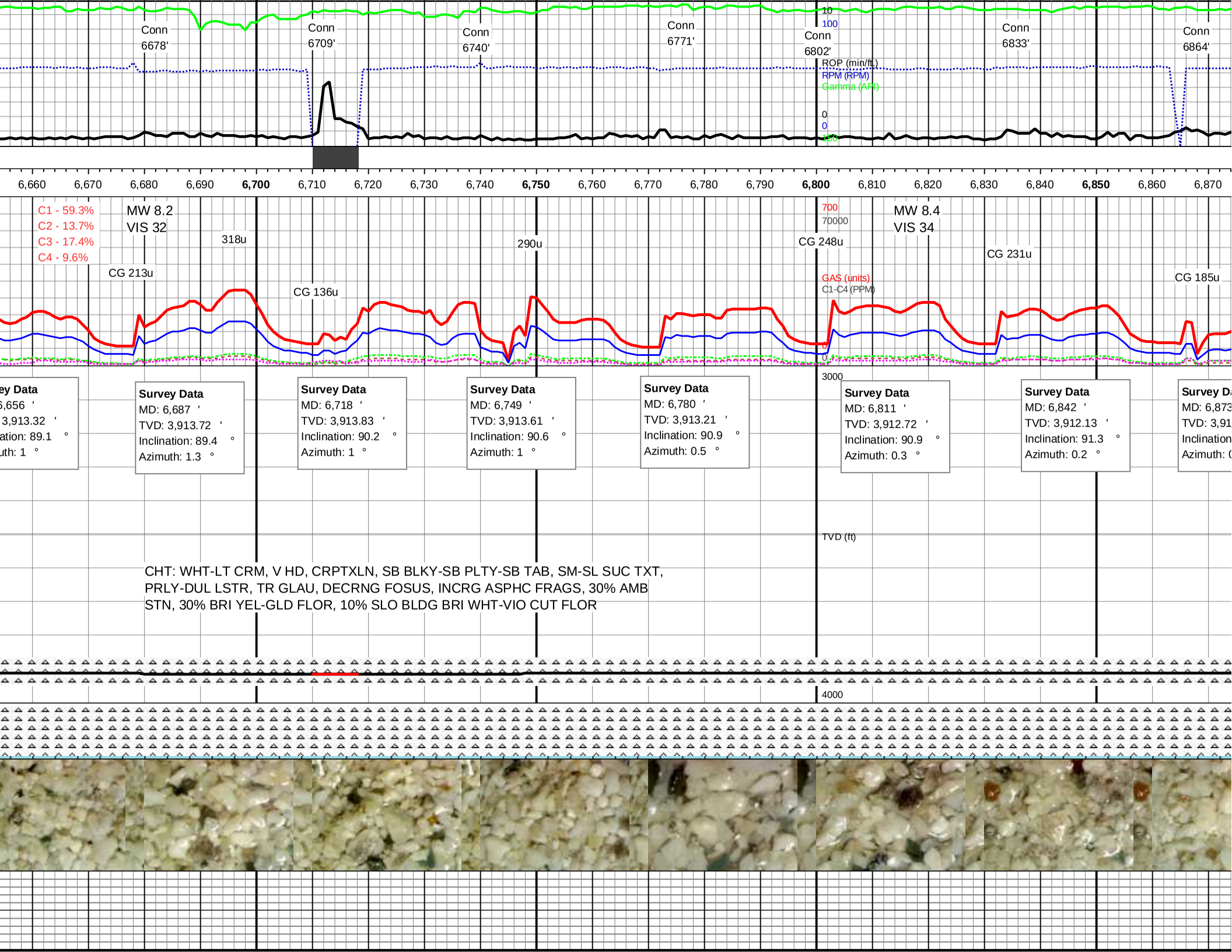

9/6/12
Conn 5566'
Conn 5597'
Conn 5628'
Conn 5659'
Conn 5690'
Conn 5720'
Conn 5751'
10
100
0
ROP (min/ft)
RPM (RPM)
Gamma (API)
0
0
150
5,560 5,570 5,580 5,590 5,600 5,610 5,620 5,630 5,640 5,650 5,660 5,670 5,680 5,690 5,700 5,710 5,720 5,730 5,740 5,750 5,760 5,770
700
70000
C1 - 64.1%
C2 - 6.6%
C3 - 21.4%
MW 8.2
VIS 29
GAS (units)
C1-C4 (PPM)
CG 73u
116u
CG 88u
131u
CG 84u
CG 57u
CG 125u
CG 100u
148u
163u
0
0
300
Survey Data
MD: 5,575 '
TVD: 3,926.46 '
Inclination: 91.4 °
Azimuth: 359.7 °
Survey Data
MD: 5,606 '
TVD: 3,925.76 '
Inclination: 91.2 °
Azimuth: 359.9 °
Survey Data
MD: 5,636 '
TVD: 3,925.08 '
Inclination: 91.4 °
Azimuth: 0 °
Survey Data
MD: 5,667 '
TVD: 3,924.21 '
Inclination: 91.8 °
Azimuth: 359.8 °
Survey Data
MD: 5,698 '
TVD: 3,923.13 '
Inclination: 92.2 °
Azimuth: 359.7 °
Survey Data
MD: 5,729 '
TVD: 3,921.91 '
Inclination: 92.3 °
Azimuth: 359.6 °
Survey Data
MD: 5,760 '
TVD: 3,920.99 '
Inclination: 91.1 °
Azimuth: 359.3 °
TVD (ft)
CHT: OPA-WHT-LT CRM, V HD, CRPTXLN, SB FLKY-SB PLTY-SB TAB, MOD SM-SL SUC TXT, PRLY-DUL LSTR, ABNT GLAU, 10% MED AMB STN, 20% BRI YEL FLOR, FNT DUL ORG-BRN CUT FLOR BCMG YEL
CHT: OPA-WHT-
SM-SL SUC TXT
DUL GLD FLOR,
4000

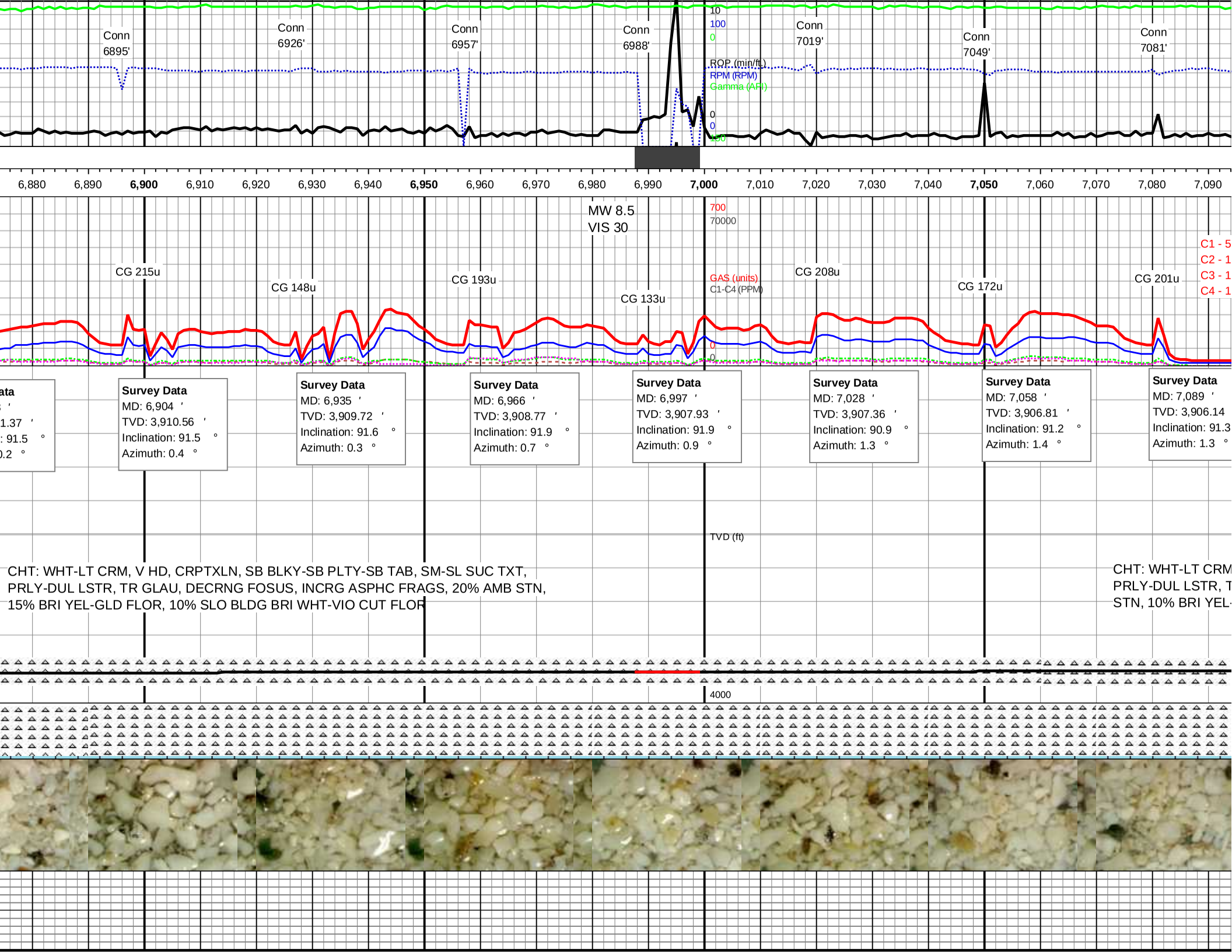

Conn 5782'
Conn 5813'
Conn 5844'
Conn 5875'
Conn 5906'
Conn 5937'
Conn 5968'
10
100
0
ROP (min/ft)
RPM (RPM)
Gamma (API)
0
0
150
5,780
5,790
5,800
5,810
5,820
5,830
5,840
5,850
5,860
5,870
5,880
5,890
5,900
5,910
5,920
5,930
5,940
5,950
5,960
5,970
5,980
5,990
700
70000
C1 - 63.2%
C2 - 12.8%
C3 - 16.7%
C4 - 7.3%
GAS (units)
C1-C4 (PPM)
MW 8.3
VIS 29
CG 391u
321u
CG 113u
148u
CG 100u
216u
CG 193u
165u
CG 152u
0
0
Survey Data
MD: 5,791 '
TVD: 3,920.45 '
Inclination: 90.9 °
Azimuth: 359.2 °
Survey Data
MD: 5,822 '
TVD: 3,920.07 '
Inclination: 90.5 °
Azimuth: 359.5 °
Survey Data
MD: 5,853 '
TVD: 3,918.86 '
Inclination: 90.3 °
Azimuth: 359.9 °
Survey Data
MD: 5,884 '
TVD: 3,919.75 '
Inclination: 90.1 °
Azimuth: 359.7 °
Survey Data
MD: 5,915 '
TVD: 3,919.67 '
Inclination: 90.2 °
Azimuth: 359.6 °
Survey Data
MD: 5,946 '
TVD: 3,919.48 '
Inclination: 90.5 °
Azimuth: 359.3 °
Survey Data
MD: 5,977 '
TVD: 3,919 '
Inclination: 90.7 °
Azimuth: 359.4 °
TVD (ft)
-LT CRM, V HD, CRPTXLN, SB FLKY-SB PLTY-SB TAB, MOD
, PRLY-DUL LSTR, ABNT GLAU, 10% FNT AMB-BRN STN, 10%
SLO DUL MKY ORG-BRN CUT FLOR BCMG BRI ORG-GLD
CHT: OPA-WHT-LT CRM, V HD, CR
SUC TXT, PRLY-DUL LSTR, ABNT
FLOR, SLO DUL MKY ORG-BRN CU
4000

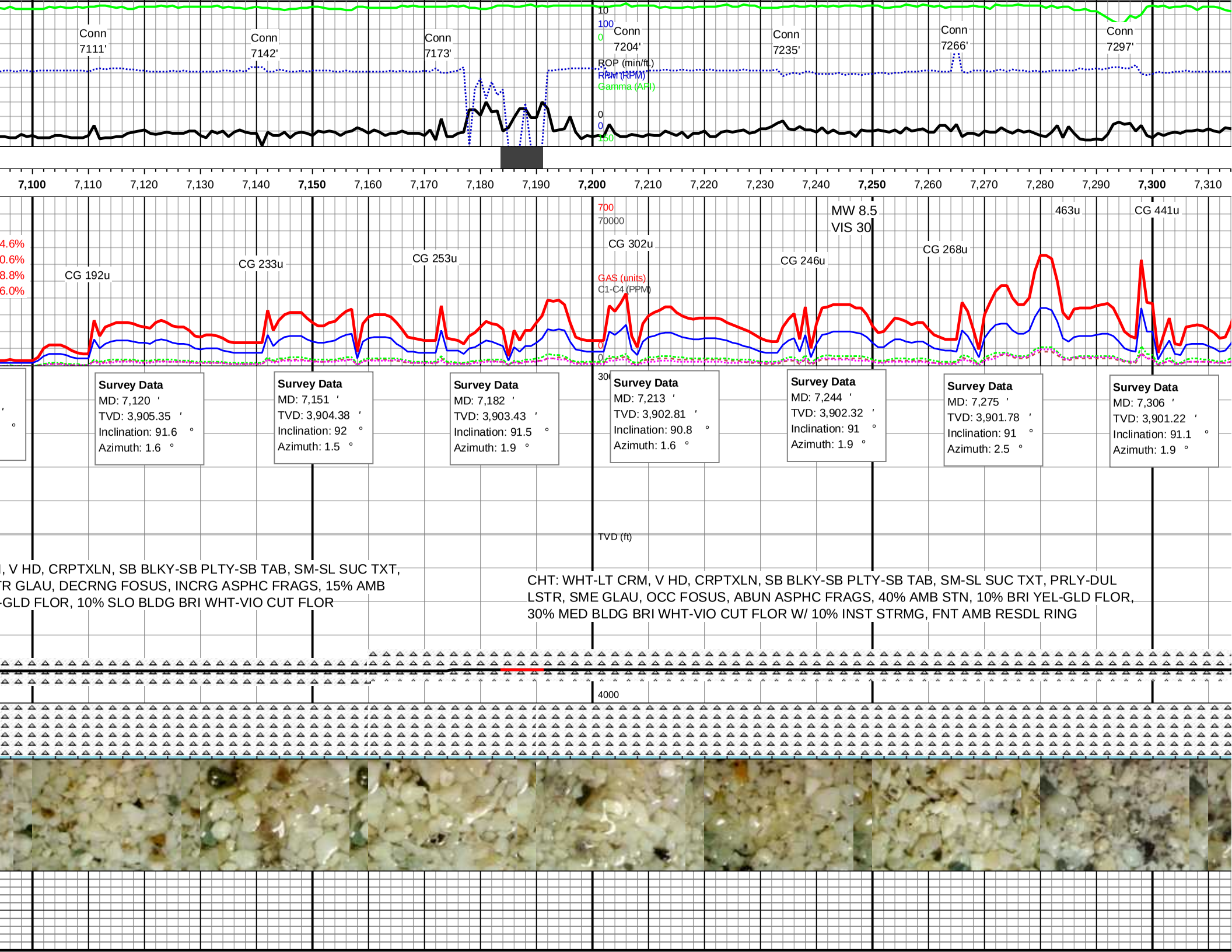

Conn 5999'
Conn 6030'
Conn 6061'
Conn 6092'
Conn 6123'
Conn 6154'
Conn 6184'
ROP (min/ft.)
RPM (RPM)
Gamma (API)
6,000
6,010
6,020
6,030
6,040
6,050
6,060
6,070
6,080
6,090
6,100
6,110
6,120
6,130
6,140
6,150
6,160
6,170
6,180
6,190
6,200
6,210
C1 - 62.7%
C2 - 12.3%
C3 - 14.9%
C4 - 10.1%
MW 8.5
VIS 28
CG 218u
CG 207u
291u
CG 182u
CG 90u
212u
CG 229u
259u
CG 232u
C1-C4 (PPM)
GAS (units)
Survey Data
MD: 6,008 '
TVD: 3,918.72 '
Inclination: 90.9 °
Azimuth: 359.5 °
Survey Data
MD: 6,038 '
TVD: 3,918.05 '
Inclination: 91.6 °
Azimuth: 359.8 °
Survey Data
MD: 6,070 '
TVD: 3,917.07 '
Inclination: 92 °
Azimuth: 359.6 °
Survey Data
MD: 6,101 '
TVD: 3,916.23 '
Inclination: 91.1 °
Azimuth: 359.8 °
Survey Data
MD: 6,131 '
TVD: 3,915.74 '
Inclination: 90.8 °
Azimuth: 359.7 °
Survey Data
MD: 6,162 '
TVD: 3,915.41 '
Inclination: 90.4 °
Azimuth: 359.8 °
Survey Data
MD: 6,193 '
TVD: 3,915.19 '
Inclination: 90.4 °
Azimuth: 0.1 °
TVD (ft)
PTXLN, SB FLKY-SB PLTY-SB TAB, MOD SM-SL
GLAU, 10% FNT AMB-BRN STN, 10% DUL GLD
UT FLOR BCMG BRI ORG-GLD
CHT: OPA-WHT-LT CRM, V H
SUC TXT, PRLY-DUL LSTR, A
FLOR, 20% INST BLDG BRI W

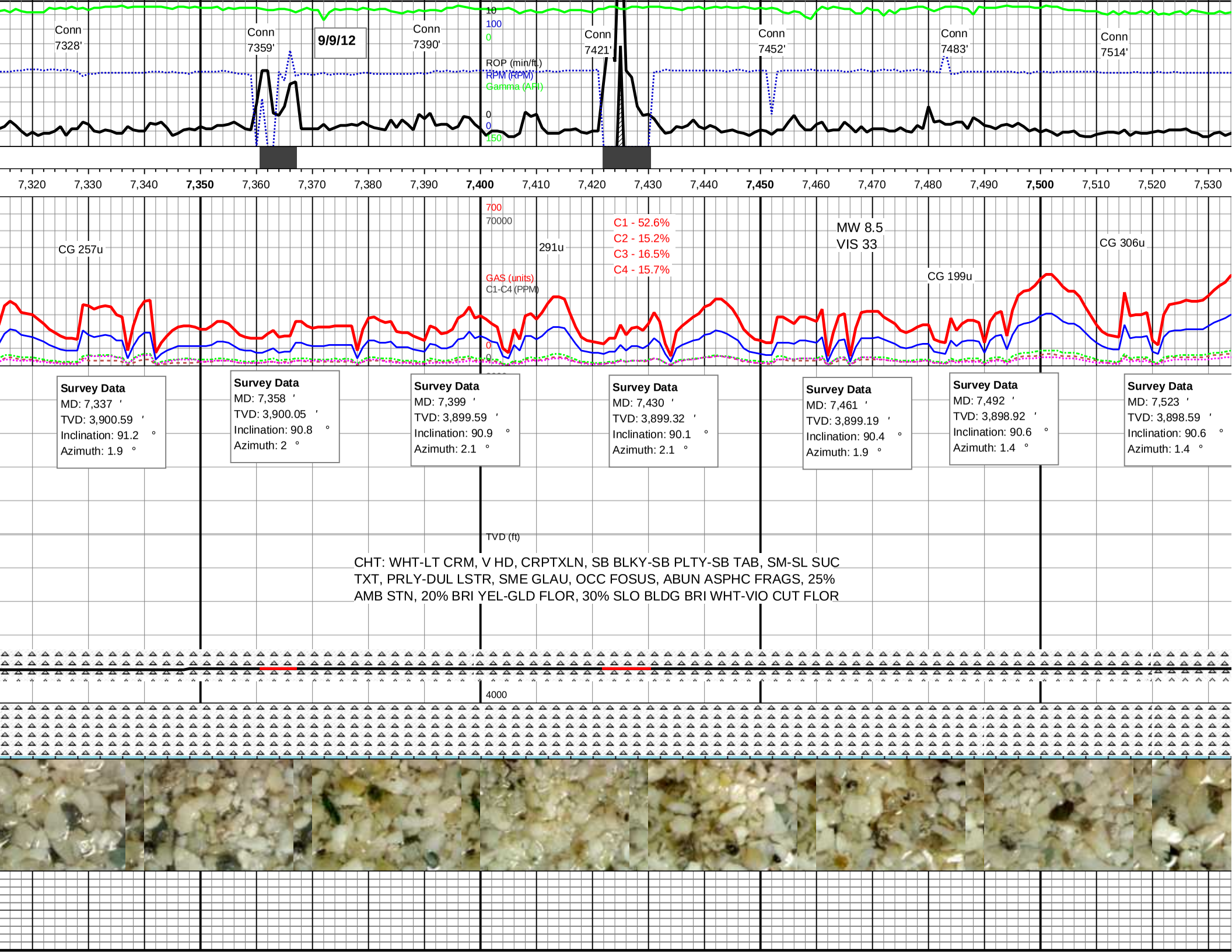

Conn 6215'
Conn 6246'
Conn 6277'
Conn 6308'
9/7/12
TFNB #6 @ 6314'
Conn 6339'
Conn 6369'
Conn 6400'
Conn 6431'
ROP (min/ft)
RPM (RPM)
Gamma (API)
6,220 6,230 6,240 6,250 6,260 6,270 6,280 6,290 6,300 6,310 6,320 6,330 6,340 6,350 6,360 6,370 6,380 6,390 6,400 6,410 6,420 6,430
280u
MW 8.4
VIS 28
Trip Gas
209u
CG 270u
308u
CG 176u
CG 178u
MW 8.4
VIS 31
295u
GAS (units)
C1-C4 (PPM)
Survey Data
MD: 6,224 '
TVD: 3,914.87 '
Inclination: 90.8 °
Azimuth: 359.9 °
Survey Data
MD: 6,255 '
TVD: 3,914.33 '
Inclination: 91.2 °
Azimuth: 359.7 °
Survey Data
MD: 6,286 '
TVD: 3,913.63 '
Inclination: 91.4 °
Azimuth: 360 °
Survey Data
MD: 6,316 '
TVD: 3,913.05 '
Inclination: 90.8 °
Azimuth: 0.5 °
Survey Data
MD: 6,347 '
TVD: 3,912.62 '
Inclination: 90.8 °
Azimuth: 0.3 °
Survey Data
MD: 6,378 '
TVD: 3,912.08 '
Inclination: 91.2 °
Azimuth: 0.4 °
Survey Data
MD: 6,408 '
TVD: 3,911.4 '
Inclination: 91.4 °
Azimuth: 0.5 °
Bit Data
Bit #: 6
Type: Halliburton FX64D
Size: 6.12
Depth In: 6,314 '
Jets: 6-14
S/N: 11951732
TVD (ft)
D, CRPTXLN, SB BLKY-SB PLTY-SB TAB, SM-SL
ABNT GLAU, 30% AMB STN, 30% BRI YEL-GLD
WHT-VIO CUT FLOR BCMG BRI ORG-GLD
4000

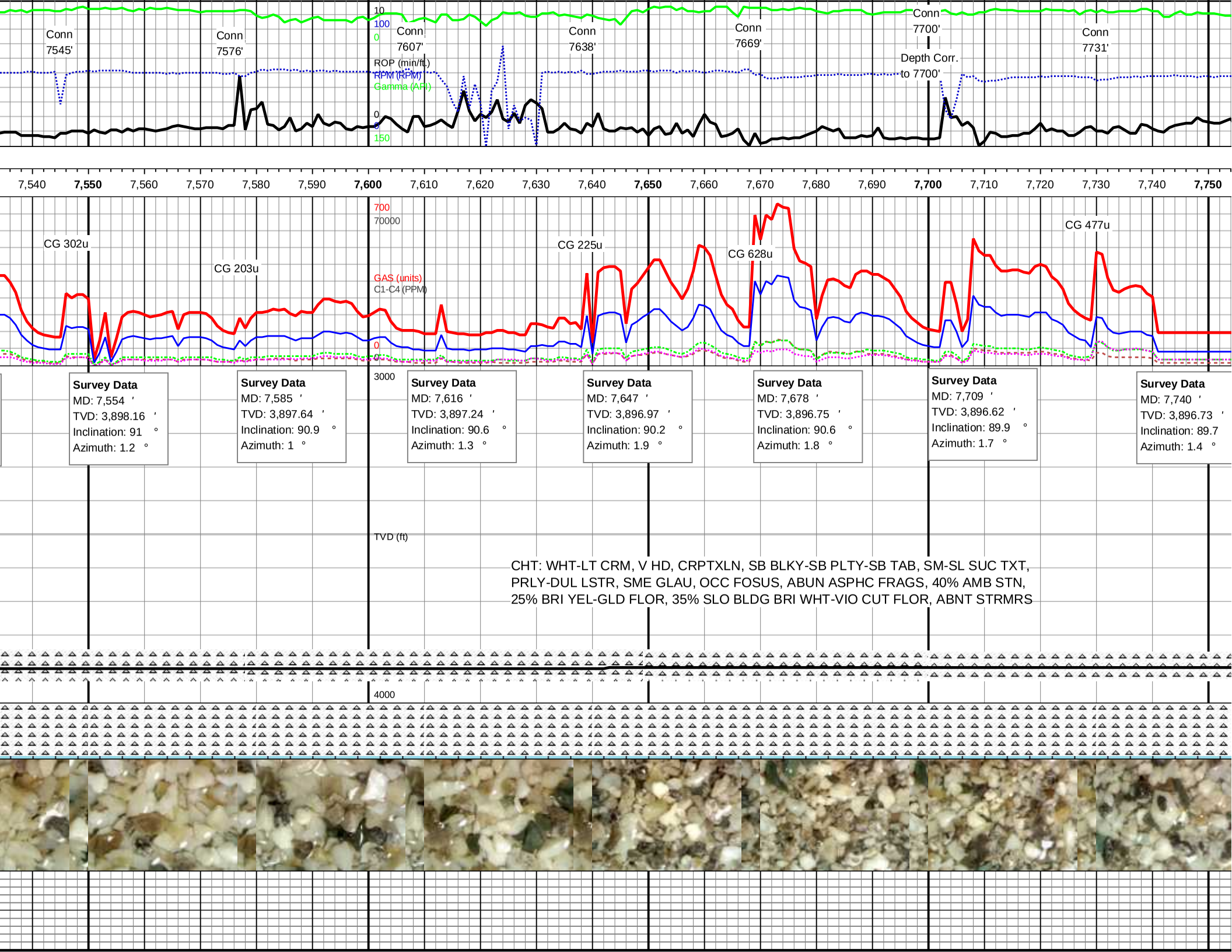

Conn 6462'
Conn 6492'
Conn 6523'
9/8/12
Conn 6554'
Conn 6585'
Conn 6616'
Conn 6647'
10
100
0
ROP (min/ft)
RPM (RPM)
Gamma (API)
0
0
150
6,440
6,450
6,460
6,470
6,480
6,490
6,500
6,510
6,520
6,530
6,540
6,550
6,560
6,570
6,580
6,590
6,600
6,610
6,620
6,630
6,640
6,650
298u
CG 343u
391u
MW 8.4
VIS 30
298u
CG 163u
C1 - 60.9%
C2 - 11.9%
C3 - 15.0%
C4 - 12.2%
CG 182u
CG 207u
CG 282u
CG 315u
700
70000
GAS (units)
C1-C4 (PPM)
0
0
3000
TVD (ft)
4000
Survey Data
MD: 6,470 '
TVD: 3,910.77 '
Inclination: 90.1 °
Azimuth: 1 °
Survey Data
MD: 6,501 '
TVD: 3,910.99 '
Inclination: 89.1 °
Azimuth: 1 °
Survey Data
MD: 6,532 '
TVD: 3,911.48 '
Inclination: 89.1 °
Azimuth: 1.2 °
Survey Data
MD: 6,563 '
TVD: 3,911.91 '
Inclination: 89.3 °
Azimuth: 1 °
Survey Data
MD: 6,594 '
TVD: 3,912.83 '
Inclination: 89.3 °
Azimuth: 0.8 °
Survey Data
MD: 6,625 '
TVD: 3,912.83 '
Inclination: 89.1 °
Azimuth: 0.7 °
CHT: OPA-WHT-LT CRM, V HD, CRPTXLN, SB BLKY-SB PLTY-SB TAB, SM-SL SUC TXT,
PRLY-DUL LSTR, SME GLAU, FOSUS, LSE ASPHC FRAGS, 30% AMB STN, 30% BRI
YEL-GLD FLOR, 10% SLO BLDG BRI WHT-VIO CUT FLOR BCMG BRI ORG-GLD

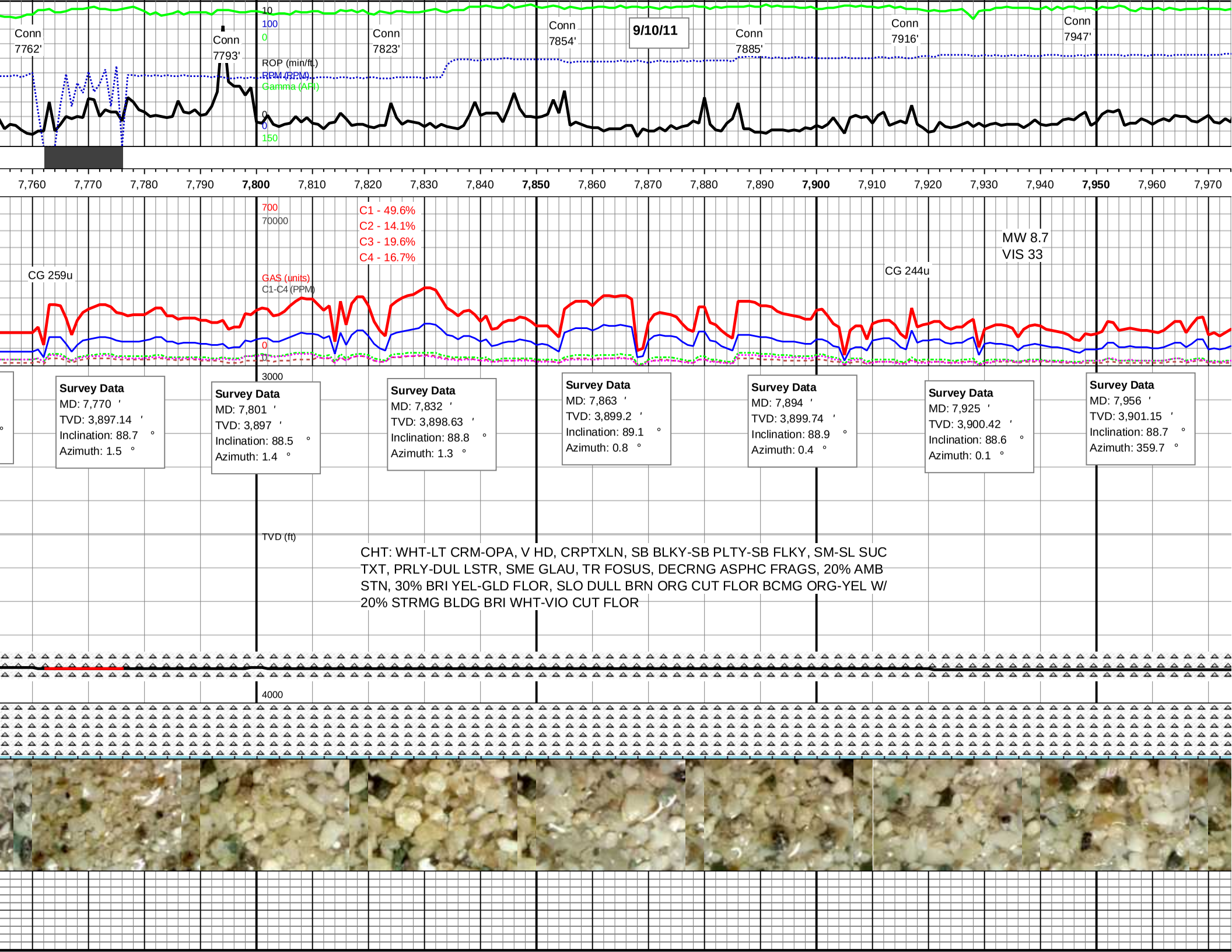

Conn 6678'
Conn 6709'
Conn 6740'
Conn 6771'
Conn 6802'
Conn 6833'
Conn 6864'
10
100
ROP (min/ft)
RPM (RPM)
Gamma (API)
0
0
6,660 6,670 6,680 6,690 6,700 6,710 6,720 6,730 6,740 6,750 6,760 6,770 6,780 6,790 6,800 6,810 6,820 6,830 6,840 6,850 6,860 6,870
C1 - 59.3%
C2 - 13.7%
C3 - 17.4%
C4 - 9.6%
MW 8.2
VIS 32
MW 8.4
VIS 34
318u
290u
CG 213u
CG 136u
CG 248u
CG 231u
CG 185u
700
70000
GAS (units)
C1-C4 (PPM)
0
3000
Survey Data
MD: 6,687 '
TVD: 3,913.72 '
Inclination: 89.4 °
Azimuth: 1.3 °
Survey Data
MD: 6,718 '
TVD: 3,913.83 '
Inclination: 90.2 °
Azimuth: 1 °
Survey Data
MD: 6,749 '
TVD: 3,913.61 '
Inclination: 90.6 °
Azimuth: 1 °
Survey Data
MD: 6,780 '
TVD: 3,913.21 '
Inclination: 90.9 °
Azimuth: 0.5 °
Survey Data
MD: 6,811 '
TVD: 3,912.72 '
Inclination: 90.9 °
Azimuth: 0.3 °
Survey Data
MD: 6,842 '
TVD: 3,912.13 '
Inclination: 91.3 °
Azimuth: 0.2 °
TVD (ft)
CHT: WHT-LT CRM, V HD, CRPTXLN, SB BLKY-SB PLTY-SB TAB, SM-SL SUC TXT, PRLY-DUL LSTR, TR GLAU, DECRNG FOSUS, INCRG ASPHC FRAGS, 30% AMB STN, 30% BRI YEL-GLD FLOR, 10% SLO BLDG BRI WHT-VIO CUT FLOR
4000

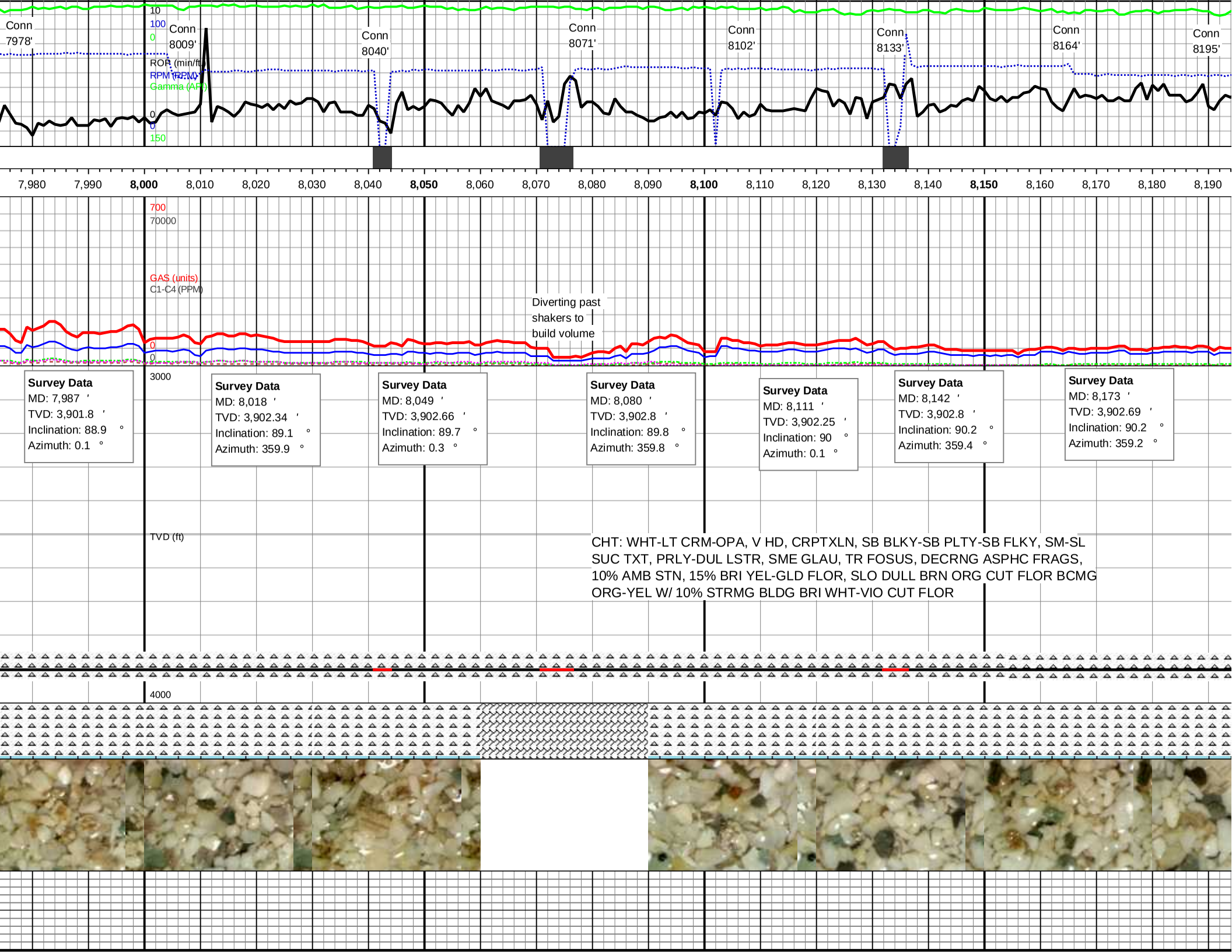

Conn 6895'
Conn 6926'
Conn 6957'
Conn 6988'
Conn 7019'
Conn 7049'
Conn 7081'
10
100
0
ROP (min/ft)
RPM (RPM)
Gamma (API)
0
0
150
6,880
6,890
6,900
6,910
6,920
6,930
6,940
6,950
6,960
6,970
6,980
6,990
7,000
7,010
7,020
7,030
7,040
7,050
7,060
7,070
7,080
7,090
MW 8.5
VIS 30
700
70000
GAS (units)
C1-C4 (PPM)
0
0
C1 - 5
C2 - 1
C3 - 1
C4 - 1
CG 215u
CG 148u
CG 193u
CG 133u
CG 208u
CG 172u
CG 201u
Survey Data
MD: 6,904 '
TVD: 3,910.56 '
Inclination: 91.5 °
Azimuth: 0.4 °
Survey Data
MD: 6,935 '
TVD: 3,909.72 '
Inclination: 91.6 °
Azimuth: 0.3 °
Survey Data
MD: 6,966 '
TVD: 3,908.77 '
Inclination: 91.9 °
Azimuth: 0.7 °
Survey Data
MD: 6,997 '
TVD: 3,907.93 '
Inclination: 91.9 °
Azimuth: 0.9 °
Survey Data
MD: 7,028 '
TVD: 3,907.36 '
Inclination: 90.9 °
Azimuth: 1.3 °
Survey Data
MD: 7,058 '
TVD: 3,906.81 '
Inclination: 91.2 °
Azimuth: 1.4 °
Survey Data
MD: 7,089 '
TVD: 3,906.14
Inclination: 91.3
Azimuth: 1.3 °
TVD (ft)
CHT: WHT-LT CRM, V HD, CRPTXLN, SB BLKY-SB PLTY-SB TAB, SM-SL SUC TXT,
PRLY-DUL LSTR, TR GLAU, DECRNG FOSUS, INCRG ASPHC FRAGS, 20% AMB STN,
15% BRI YEL-GLD FLOR, 10% SLO BLDG BRI WHT-VIO CUT FLOR
CHT: WHT-LT CRM
PRLY-DUL LSTR, T
STN, 10% BRI YEL
4000

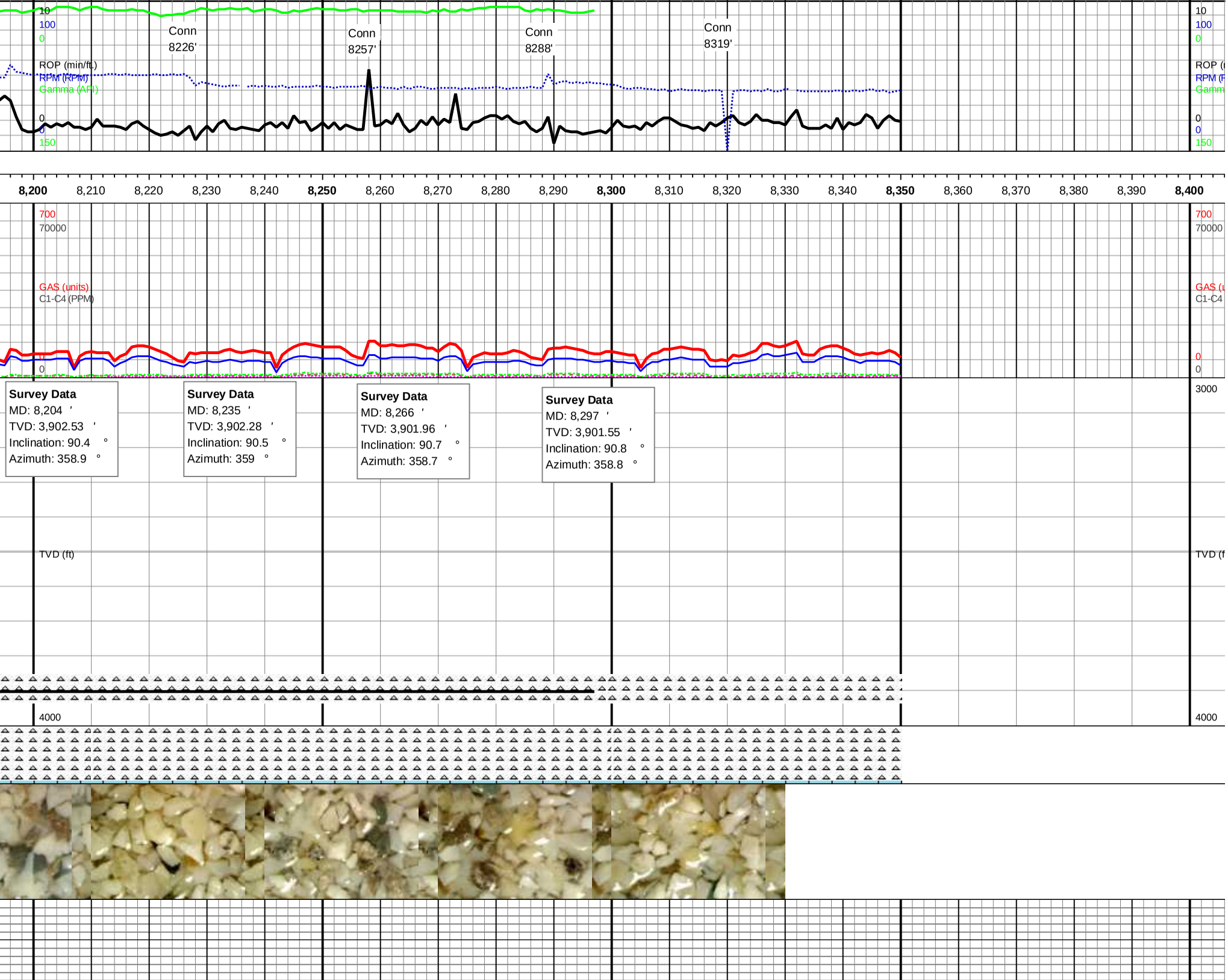

Conn 7111'
Conn 7142'
Conn 7173'
Conn 7204'
Conn 7235'
Conn 7266'
Conn 7297'
ROP (min/ft)
RPM (RPM)
Gamma (API)
7,100
7,110
7,120
7,130
7,140
7,150
7,160
7,170
7,180
7,190
7,200
7,210
7,220
7,230
7,240
7,250
7,260
7,270
7,280
7,290
7,300
7,310
CG 192u
CG 233u
CG 253u
CG 302u
CG 246u
CG 268u
463u
CG 441u
MW 8.5
VIS 30
GAS (units)
C1-C4 (PPM)
TVD (ft)
Survey Data
MD: 7,120 '
TVD: 3,905.35 '
Inclination: 91.6 °
Azimuth: 1.6 °
Survey Data
MD: 7,151 '
TVD: 3,904.38 '
Inclination: 92 °
Azimuth: 1.5 °
Survey Data
MD: 7,182 '
TVD: 3,903.43 '
Inclination: 91.5 °
Azimuth: 1.9 °
Survey Data
MD: 7,213 '
TVD: 3,902.81 '
Inclination: 90.8 °
Azimuth: 1.6 °
Survey Data
MD: 7,244 '
TVD: 3,902.32 '
Inclination: 91 °
Azimuth: 1.9 °
Survey Data
MD: 7,275 '
TVD: 3,901.78 '
Inclination: 91 °
Azimuth: 2.5 °
Survey Data
MD: 7,306 '
TVD: 3,901.22 '
Inclination: 91.1 °
Azimuth: 1.9 °
, V HD, CRPTXLN, SB BLKY-SB PLTY-SB TAB, SM-SL SUC TXT,
R GLAU, DECRNG FOSUS, INCRG ASPHC FRAGS, 15% AMB
-GLD FLOR, 10% SLO BLDG BRI WHT-VIO CUT FLOR
CHT: WHT-LT CRM, V HD, CRPTXLN, SB BLKY-SB PLTY-SB TAB, SM-SL SUC TXT, PRLY-DUL
LSTR, SME GLAU, OCC FOSUS, ABUN ASPHC FRAGS, 40% AMB STN, 10% BRI YEL-GLD FLOR,
30% MED BLDG BRI WHT-VIO CUT FLOR W/ 10% INST STRMG, FNT AMB RESDL RING
4000


Conn 7328'
Conn 7359'
9/9/12
Conn 7390'
Conn 7421'
Conn 7452'
Conn 7483'
Conn 7514'
10
100
0
ROP (min/ft)
RPM (RPM)
Gamma (API)
0
0
150
7,320 7,330 7,340 7,350 7,360 7,370 7,380 7,390 7,400 7,410 7,420 7,430 7,440 7,450 7,460 7,470 7,480 7,490 7,500 7,510 7,520 7,530
700
70000
GAS (units)
C1-C4 (PPM)
0
0
CG 257u
291u
C1 - 52.6%
C2 - 15.2%
C3 - 16.5%
C4 - 15.7%
MW 8.5
VIS 33
CG 199u
CG 306u
Survey Data
MD: 7,337 '
TVD: 3,900.59 '
Inclination: 91.2 °
Azimuth: 1.9 °
Survey Data
MD: 7,358 '
TVD: 3,900.05 '
Inclination: 90.8 °
Azimuth: 2 °
Survey Data
MD: 7,399 '
TVD: 3,899.59 '
Inclination: 90.9 °
Azimuth: 2.1 °
Survey Data
MD: 7,430 '
TVD: 3,899.32 '
Inclination: 90.1 °
Azimuth: 2.1 °
Survey Data
MD: 7,461 '
TVD: 3,899.19 '
Inclination: 90.4 °
Azimuth: 1.9 °
Survey Data
MD: 7,492 '
TVD: 3,898.92 '
Inclination: 90.6 °
Azimuth: 1.4 °
Survey Data
MD: 7,523 '
TVD: 3,898.59 '
Inclination: 90.6 °
Azimuth: 1.4 °
TVD (ft)
CHT: WHT-LT CRM, V HD, CRPTXLN, SB BLKY-SB PLTY-SB TAB, SM-SL SUC TXT, PRLY-DUL LSTR, SME GLAU, OCC FOSUS, ABUN ASPHC FRAGS, 25% AMB STN, 20% BRI YEL-GLD FLOR, 30% SLO BLDG BRI WHT-VIO CUT FLOR
4000


Conn 7545'
Conn 7576'
Conn 7607'
Conn 7638'
Conn 7669'
Conn 7700'
Depth Corr. to 7700'
Conn 7731'
10
100
0
ROP (min/ft)
RPM (RPM)
Gamma (API)
0
0
150
7,540
7,550
7,560
7,570
7,580
7,590
7,600
7,610
7,620
7,630
7,640
7,650
7,660
7,670
7,680
7,690
7,700
7,710
7,720
7,730
7,740
7,750
700
70000
CG 302u
CG 203u
CG 225u
CG 628u
CG 477u
GAS (units)
C1-C4 (PPM)
0
0
3000
Survey Data
MD: 7,554 '
TVD: 3,898.16 '
Inclination: 91 °
Azimuth: 1.2 °
Survey Data
MD: 7,585 '
TVD: 3,897.64 '
Inclination: 90.9 °
Azimuth: 1 °
Survey Data
MD: 7,616 '
TVD: 3,897.24 '
Inclination: 90.6 °
Azimuth: 1.3 °
Survey Data
MD: 7,647 '
TVD: 3,896.97 '
Inclination: 90.2 °
Azimuth: 1.9 °
Survey Data
MD: 7,678 '
TVD: 3,896.75 '
Inclination: 90.6 °
Azimuth: 1.8 °
Survey Data
MD: 7,709 '
TVD: 3,896.62 '
Inclination: 89.9 °
Azimuth: 1.7 °
Survey Data
MD: 7,740 '
TVD: 3,896.73 '
Inclination: 89.7
Azimuth: 1.4 °
TVD (ft)
CHT: WHT-LT CRM, V HD, CRPTXLN, SB BLKY-SB PLTY-SB TAB, SM-SL SUC TXT,
PRLY-DUL LSTR, SME GLAU, OCC FOSUS, ABUN ASPHC FRAGS, 40% AMB STN,
25% BRI YEL-GLD FLOR, 35% SLO BLDG BRI WHT-VIO CUT FLOR, ABNT STRMRS
4000


Conn
7762'
Conn
7793'
Conn
7823'
Conn
7854'
9/10/11
Conn
7885'
Conn
7916'
Conn
7947'
10
100
0
ROP (min/ft)
RPM (RPM)
Gamma (API)
0
0
150
7,760
7,770
7,780
7,790
7,800
7,810
7,820
7,830
7,840
7,850
7,860
7,870
7,880
7,890
7,900
7,910
7,920
7,930
7,940
7,950
7,960
7,970
700
70000
C1 - 49.6%
C2 - 14.1%
C3 - 19.6%
C4 - 16.7%
MW 8.7
VIS 33
CG 259u
CG 244u
GAS (units)
C1-C4 (PPM)
0
3000
Survey Data
MD: 7,770 '
TVD: 3,897.14 '
Inclination: 88.7 °
Azimuth: 1.5 °
Survey Data
MD: 7,801 '
TVD: 3,897 '
Inclination: 88.5 °
Azimuth: 1.4 °
Survey Data
MD: 7,832 '
TVD: 3,898.63 '
Inclination: 88.8 °
Azimuth: 1.3 °
Survey Data
MD: 7,863 '
TVD: 3,899.2 '
Inclination: 89.1 °
Azimuth: 0.8 °
Survey Data
MD: 7,894 '
TVD: 3,899.74 '
Inclination: 88.9 °
Azimuth: 0.4 °
Survey Data
MD: 7,925 '
TVD: 3,900.42 '
Inclination: 88.6 °
Azimuth: 0.1 °
Survey Data
MD: 7,956 '
TVD: 3,901.15 '
Inclination: 88.7 °
Azimuth: 359.7 °
TVD (ft)
CHT: WHT-LT CRM-OPA, V HD, CRPTXLN, SB BLKY-SB PLTY-SB FLKY, SM-SL SUC TXT, PRLY-DUL LSTR, SME GLAU, TR FOSUS, DECRNG ASPHC FRAGS, 20% AMB STN, 30% BRI YEL-GLD FLOR, SLO DULL BRN ORG CUT FLOR BCMG ORG-YEL W/ 20% STRMG BLDG BRI WHT-VIO CUT FLOR
4000


Conn 7978'
Conn 8009'
Conn 8040'
Conn 8071'
Conn 8102'
Conn 8133'
Conn 8164'
Conn 8195'
10
100
0
ROP (min/ft)
RPM (RPM)
Gamma (API)
0
0
150
7,980
7,990
8,000
8,010
8,020
8,030
8,040
8,050
8,060
8,070
8,080
8,090
8,100
8,110
8,120
8,130
8,140
8,150
8,160
8,170
8,180
8,190
700
70000
GAS (units)
C1-C4 (PPM)
0
0
Diverting past shakers to build volume
3000
Survey Data
MD: 7,987 '
TVD: 3,901.8 '
Inclination: 88.9 °
Azimuth: 0.1 °
Survey Data
MD: 8,018 '
TVD: 3,902.34 '
Inclination: 89.1 °
Azimuth: 359.9 °
Survey Data
MD: 8,049 '
TVD: 3,902.66 '
Inclination: 89.7 °
Azimuth: 0.3 °
Survey Data
MD: 8,080 '
TVD: 3,902.8 '
Inclination: 89.8 °
Azimuth: 359.8 °
Survey Data
MD: 8,111 '
TVD: 3,902.25 '
Inclination: 90 °
Azimuth: 0.1 °
Survey Data
MD: 8,142 '
TVD: 3,902.8 '
Inclination: 90.2 °
Azimuth: 359.4 °
Survey Data
MD: 8,173 '
TVD: 3,902.69 '
Inclination: 90.2 °
Azimuth: 359.2 °
TVD (ft)
CHT: WHT-LT CRM-OPA, V HD, CRPTXLN, SB BLKY-SB PLTY-SB FLKY, SM-SL SUC TXT, PRLY-DUL LSTR, SME GLAU, TR FOSUS, DECRNG ASPHC FRAGS, 10% AMB STN, 15% BRI YEL-GLD FLOR, SLO DULL BRN ORG CUT FLOR BCMG ORG-YEL W/ 10% STRMG BLDG BRI WHT-VIO CUT FLOR
4000


10
100
0
ROP (min/ft)
RPM (RPM)
Gamma (API)
0
0
150
Conn
8226'
Conn
8257'
Conn
8288'
Conn
8319'
8,200
8,210
8,220
8,230
8,240
8,250
8,260
8,270
8,280
8,290
8,300
8,310
8,320
8,330
8,340
8,350
8,360
8,370
8,380
8,390
8,400
700
70000
GAS (units)
C1-C4 (PPM)
0
0
Survey Data
MD: 8,204 '
TVD: 3,902.53 '
Inclination: 90.4 °
Azimuth: 358.9 °
Survey Data
MD: 8,235 '
TVD: 3,902.28 '
Inclination: 90.5 °
Azimuth: 359 °
Survey Data
MD: 8,266 '
TVD: 3,901.96 '
Inclination: 90.7 °
Azimuth: 358.7 °
Survey Data
MD: 8,297 '
TVD: 3,901.55 '
Inclination: 90.8 °
Azimuth: 358.8 °
3000
TVD (ft)
4000

Preisser 25-9-6-1H
15-155-21595-0100
Pit Hauling (Attached to ACO-1 and CDP-5)

Operator Name:	Reh Oil & Gas	
License #:	32556	
Lease Name:	Harrell SWD	
Location:	NE 27-29S-13W	
County:	Pratt	
Permit #:	D-20005	
Fluid volume:	4340	bbls

Operator Name:	Messenger Petro	
License #:	4706	
Lease Name:	Nicholas SWD	
Location:	NW NE NE 20-30S-8W	
County:	Kingman	
Permit #:	D-27434	
Fluid volume:	1210	bbls

Operator Name:	Struder Oil Comp	
License #:	9582	
Lease Name:	Studer SWD	
Location:	NE SE 4-27S-12W	
County:	Pratt	
Permit #:	D-24220	
Fluid volume:	1240	bbls

Total Fluid Volume:	**6790**	**bbls**

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

December 10, 2012

TINA MILLER
Dorado E&P Partners, LLC
1401 17th ST., STE 1500
DENVER, CO 80202

Re: ACO1
API 15-155-21595-01-00
Preisser 25-9-6-1H
SW/4 Sec.06-25S-09W
Reno County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
TINA MILLER

Well Report

calmena ENERGY SERVICES

Company : Dorado E&P Partners
Well : Preisser 25-9-6 1H
Location : Reno County Kansas
Reference: Grid North

Date : 9/11/2012
File : OK 12129

Vertical Section Calculated Along Azimuth 0.00°
KB Elevation = 1733.00ft GR. Elevation = 1721.00ft

	MD	Inc	Azi	TVD	North	East	V'Sect	D'Leg	Build	Turn
	ft	deg	deg	ft	ft	ft	ft	°/100	°/100	°/100
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1619.00	0.40	69.50	1618.99	1.98	5.29	1.98	0.02	0.02	4.29
2	2155.00	0.30	49.90	2154.98	3.54	8.12	3.54	0.03	-0.02	-3.66
3	2559.00	0.30	126.50	2558.97	3.59	9.78	3.59	0.09	0.00	18.96
4	3149.00	0.50	154.00	3148.96	0.36	12.15	0.36	0.05	0.03	4.66
5	3166.00	0.70	124.20	3165.96	0.23	12.27	0.23	2.14	1.18	-175.29
6	3197.00	0.50	111.10	3196.96	0.08	12.55	0.08	0.78	-0.65	-42.26
7	3228.00	1.60	3.40	3227.95	0.46	12.70	0.46	5.86	3.55	-347.42
8	3259.00	5.30	358.50	3258.89	2.32	12.69	2.32	11.96	11.94	-15.81
9	3290.00	9.00	1.30	3289.64	6.18	12.71	6.18	11.98	11.94	9.03
10	3321.00	11.60	3.40	3320.14	11.72	12.95	11.72	8.47	8.39	6.77
11	3352.00	14.20	2.30	3350.36	18.63	13.28	18.63	8.42	8.39	-3.55
12	3383.00	16.20	358.90	3380.27	26.75	13.35	26.75	7.06	6.45	-10.97
13	3414.00	18.50	356.90	3409.86	35.99	13.01	35.99	7.66	7.42	-6.45
14	3445.00	21.50	356.90	3438.99	46.58	12.43	46.58	9.68	9.68	0.00
15	3476.00	24.40	358.00	3467.53	58.65	11.90	58.65	9.46	9.35	3.55
16	3507.00	27.50	359.10	3495.40	72.21	11.57	72.21	10.12	10.00	3.55
17	3538.00	30.70	359.40	3522.48	87.28	11.37	87.28	10.33	10.32	0.97
18	3569.00	33.20	359.80	3548.79	103.68	11.26	103.68	8.09	8.06	1.29
19	3600.00	35.90	359.60	3574.32	121.26	11.16	121.26	8.72	8.71	-0.65
20	3631.00	38.70	359.20	3598.97	140.05	10.97	140.05	9.07	9.03	-1.29
21	3663.00	41.30	359.10	3623.49	160.61	10.66	160.61	8.13	8.13	-0.31
22	3694.00	43.80	359.30	3646.32	181.57	10.37	181.57	8.08	8.06	0.65
23	3725.00	45.90	359.60	3668.30	203.43	10.16	203.43	6.81	6.77	0.97
24	3756.00	47.70	359.40	3689.52	226.03	9.96	226.03	5.83	5.81	-0.65
25	3787.00	49.60	359.40	3710.00	249.30	9.72	249.30	6.13	6.13	0.00
26	3818.00	52.10	359.00	3729.57	273.33	9.38	273.33	8.13	8.06	-1.29
27	3849.00	54.50	359.20	3748.09	298.18	8.99	298.18	7.76	7.74	0.65
28	3879.00	56.20	358.50	3765.15	322.86	8.49	322.86	5.98	5.67	-2.33
29	3910.00	58.60	358.80	3781.85	348.96	7.88	348.96	7.78	7.74	0.97
30	3941.00	62.00	359.00	3797.21	375.88	7.36	375.88	10.98	10.97	0.65
31	3972.00	64.70	358.50	3811.11	403.58	6.76	403.58	8.83	8.71	-1.61
32	4003.00	67.30	359.00	3823.72	431.89	6.14	431.89	8.52	8.39	1.61
33	4034.00	69.50	359.80	3835.13	460.71	5.84	460.71	7.49	7.10	2.58
34	4065.00	70.50	359.70	3845.73	489.84	5.71	489.84	3.24	3.23	-0.32
35	4096.00	71.20	359.40	3855.90	519.12	5.48	519.12	2.44	2.26	-0.97

Well Report

calmena ENERGY SERVICES

Company : Dorado E&P Partners
Well : Preisser 25-9-6 1H
Location : Reno County Kansas
Reference: Grid North

Date : 9/11/2012
File : OK 12129

Vertical Section Calculated Along Azimuth 0.00°
KB Elevation = 1733.00ft GR. Elevation = 1721.00ft

	MD	Inc	Azi	TVD	North	East	V'Sect	D'Leg	Build	Turn
	ft	deg	deg	ft	ft	ft	ft	°/100	°/100	°/100
36	4127.00	71.60	359.00	3865.79	548.50	5.07	548.50	1.78	1.29	-1.29
37	4158.00	72.20	359.10	3875.42	577.96	4.59	577.96	1.96	1.94	0.32
38	4189.00	73.40	358.90	3884.59	607.57	4.07	607.57	3.92	3.87	-0.65
39	4220.00	76.40	359.00	3892.66	637.49	3.52	637.49	9.68	9.68	0.32
40	4251.00	78.30	359.20	3899.45	667.73	3.05	667.73	6.16	6.13	0.65
41	4282.00	81.00	359.60	3905.02	698.22	2.73	698.22	8.80	8.71	1.29
42	4313.00	84.00	0.20	3909.06	728.96	2.67	728.96	9.87	9.68	1.94
43	4344.00	85.50	0.40	3911.90	759.82	2.83	759.82	4.88	4.84	0.65
44	4375.00	87.00	1.10	3913.93	790.75	3.24	790.75	5.34	4.84	2.26
45	4429.00	89.10	359.90	3915.77	844.72	3.71	844.72	4.48	3.89	-2.22
46	4460.00	89.60	0.20	3916.12	875.71	3.74	875.71	1.88	1.61	0.97
47	4491.00	89.90	0.30	3916.25	906.71	3.87	906.71	1.02	0.97	0.32
48	4522.00	89.30	359.80	3916.47	937.71	3.90	937.71	2.52	-1.94	-1.61
49	4553.00	89.20	0.00	3916.87	968.71	3.85	968.71	0.72	-0.32	0.65
50	4584.00	89.00	0.30	3917.36	999.71	3.93	999.71	1.16	-0.65	0.97
51	4615.00	87.90	0.20	3918.20	1030.69	4.06	1030.69	3.56	-3.55	-0.32
52	4646.00	86.90	359.90	3919.61	1061.66	4.09	1061.66	3.37	-3.23	-0.97
53	4677.00	86.80	359.40	3921.31	1092.61	3.90	1092.61	1.64	-0.32	-1.61
54	4708.00	86.90	359.10	3923.01	1123.56	3.49	1123.56	1.02	0.32	-0.97
55	4739.00	87.10	358.90	3924.64	1154.52	2.95	1154.52	0.91	0.65	-0.65
56	4770.00	86.40	358.90	3926.39	1185.46	2.36	1185.46	2.26	-2.26	0.00
57	4801.00	86.10	359.10	3928.42	1216.39	1.82	1216.39	1.16	-0.97	0.65
58	4832.00	85.40	358.60	3930.72	1247.30	1.20	1247.30	2.77	-2.26	-1.61
59	4863.00	84.20	358.60	3933.53	1278.16	0.45	1278.16	3.87	-3.87	0.00
60	4894.00	84.20	358.70	3936.66	1308.99	-0.28	1308.99	0.32	0.00	0.32
61	4925.00	84.70	358.70	3939.66	1339.84	-0.98	1339.84	1.61	1.61	0.00
62	4956.00	85.20	358.30	3942.39	1370.71	-1.79	1370.71	2.06	1.61	-1.29
63	4987.00	85.80	358.60	3944.82	1401.60	-2.62	1401.60	2.16	1.94	0.97
64	5018.00	86.30	358.60	3946.96	1432.52	-3.38	1432.52	1.61	1.61	0.00
65	5049.00	86.80	358.70	3948.82	1463.45	-4.11	1463.45	1.64	1.61	0.32
66	5080.00	87.20	358.50	3950.44	1494.40	-4.87	1494.40	1.44	1.29	-0.65
67	5111.00	88.30	358.30	3951.66	1525.37	-5.73	1525.37	3.61	3.55	-0.65
68	5142.00	89.50	358.40	3952.26	1556.35	-6.62	1556.35	3.88	3.87	0.32
69	5173.00	90.30	358.70	3952.31	1587.34	-7.41	1587.34	2.76	2.58	0.97
70	5204.00	91.40	358.90	3951.85	1618.33	-8.06	1618.33	3.61	3.55	0.65
71	5235.00	92.20	358.90	3950.88	1649.31	-8.65	1649.31	2.58	2.58	0.00

Well Report

calmena ENERGY SERVICES

Company : Dorado E&P Partners
Well : Preisser 25-9-6 1H
Location : Reno County Kansas
Reference: Grid North

Date : 9/11/2012
File : OK 12129

Vertical Section Calculated Along Azimuth 0.00°
KB Elevation = 1733.00ft GR. Elevation = 1721.00ft

	MD	Inc	Azi	TVD	North	East	V'Sect	D'Leg	Build	Turn
	ft	deg	deg	ft	ft	ft	ft	°/100	°/100	°/100
72	5266.00	93.00	358.90	3949.47	1680.27	-9.25	1680.27	2.58	2.58	0.00
73	5297.00	93.40	359.20	3947.74	1711.21	-9.76	1711.21	1.61	1.29	0.97
74	5327.00	94.70	359.20	3945.62	1741.14	-10.18	1741.14	4.33	4.33	0.00
75	5358.00	95.50	359.30	3942.86	1772.01	-10.58	1772.01	2.60	2.58	0.32
76	5389.00	95.60	359.60	3939.87	1802.86	-10.88	1802.86	1.02	0.32	0.97
77	5420.00	94.70	0.10	3937.08	1833.74	-10.96	1833.74	3.32	-2.90	1.61
78	5451.00	94.60	359.90	3934.57	1864.64	-10.96	1864.64	0.72	-0.32	-0.65
79	5482.00	95.20	0.10	3931.92	1895.52	-10.96	1895.52	2.04	1.94	0.65
80	5513.00	94.20	359.40	3929.38	1926.42	-11.09	1926.42	3.93	-3.23	-2.26
81	5544.00	92.60	359.60	3927.54	1957.36	-11.36	1957.36	5.20	-5.16	0.65
82	5575.00	91.40	359.70	3926.46	1988.34	-11.55	1988.34	3.88	-3.87	0.32
83	5606.00	91.20	359.90	3925.76	2019.33	-11.66	2019.33	0.91	-0.65	0.65
84	5636.00	91.40	0.00	3925.08	2049.32	-11.69	2049.32	0.75	0.67	0.33
85	5667.00	91.80	359.80	3924.21	2080.31	-11.74	2080.31	1.44	1.29	-0.65
86	5698.00	92.20	359.70	3923.13	2111.29	-11.88	2111.29	1.33	1.29	-0.32
87	5729.00	92.30	359.60	3921.91	2142.27	-12.07	2142.27	0.46	0.32	-0.32
88	5760.00	91.10	359.30	3920.99	2173.25	-12.36	2173.25	3.99	-3.87	-0.97
89	5791.00	90.90	359.20	3920.45	2204.25	-12.77	2204.25	0.72	-0.65	-0.32
90	5822.00	90.50	359.50	3920.07	2235.24	-13.12	2235.24	1.61	-1.29	0.97
91	5853.00	90.30	359.90	3919.86	2266.24	-13.28	2266.24	1.44	-0.65	1.29
92	5884.00	90.10	359.70	3919.75	2297.24	-13.39	2297.24	0.91	-0.65	-0.65
93	5915.00	90.20	359.60	3919.67	2328.24	-13.58	2328.24	0.46	0.32	-0.32
94	5946.00	90.50	359.30	3919.48	2359.24	-13.88	2359.24	1.37	0.97	-0.97
95	5977.00	90.70	359.40	3919.15	2390.23	-14.23	2390.23	0.72	0.65	0.32
96	6008.00	90.90	359.50	3918.72	2421.23	-14.53	2421.23	0.72	0.65	0.32
97	6039.00	91.60	359.80	3918.05	2452.22	-14.72	2452.22	2.46	2.26	0.97
98	6070.00	92.00	359.60	3917.07	2483.20	-14.88	2483.20	1.44	1.29	-0.65
99	6101.00	91.10	359.80	3916.23	2514.19	-15.04	2514.19	2.97	-2.90	0.65
100	6131.00	90.80	359.70	3915.74	2544.19	-15.17	2544.19	1.05	-1.00	-0.33
101	6162.00	90.40	359.80	3915.41	2575.19	-15.31	2575.19	1.33	-1.29	0.32
102	6193.00	90.40	0.10	3915.19	2606.19	-15.33	2606.19	0.97	0.00	0.97
103	6224.00	90.80	359.90	3914.87	2637.18	-15.33	2637.18	1.44	1.29	-0.65
104	6255.00	91.20	359.70	3914.33	2668.18	-15.44	2668.18	1.44	1.29	-0.65
105	6286.00	91.40	0.00	3913.63	2699.17	-15.52	2699.17	1.16	0.65	0.97
106	6316.00	90.80	0.50	3913.05	2729.16	-15.39	2729.16	2.60	-2.00	1.67
107	6347.00	90.80	0.30	3912.62	2760.16	-15.18	2760.16	0.65	0.00	-0.65

Well Report

calmena ENERGY SERVICES

Company : Dorado E&P Partners
Well : Preisser 25-9-6 1H
Location : Reno County Kansas
Reference: Grid North

Date : 9/11/2012
File : OK 12129

Vertical Section Calculated Along Azimuth 0.00°
KB Elevation = 1733.00ft GR. Elevation = 1721.00ft

	MD	Inc	Azi	TVD	North	East	V'Sect	D'Leg	Build	Turn
	ft	deg	deg	ft	ft	ft	ft	°/100	°/100	°/100
108	6378.00	91.20	0.40	3912.08	2791.16	-14.99	2791.16	1.33	1.29	0.32
109	6408.00	91.40	0.50	3911.40	2821.15	-14.75	2821.15	0.75	0.67	0.33
110	6439.00	90.40	0.70	3910.91	2852.14	-14.43	2852.14	3.29	-3.23	0.65
111	6470.00	90.10	1.00	3910.77	2883.14	-13.97	2883.14	1.37	-0.97	0.97
112	6501.00	89.10	1.00	3910.99	2914.13	-13.43	2914.13	3.23	-3.23	0.00
113	6532.00	89.10	1.20	3911.48	2945.12	-12.83	2945.12	0.65	0.00	0.65
114	6563.00	89.30	1.00	3911.91	2976.11	-12.24	2976.11	0.91	0.65	-0.65
115	6594.00	89.10	0.80	3912.34	3007.11	-11.75	3007.11	0.91	-0.65	-0.65
116	6625.00	89.10	0.70	3912.83	3038.10	-11.34	3038.10	0.32	0.00	-0.32
117	6656.00	89.10	1.00	3913.32	3069.09	-10.88	3069.09	0.97	0.00	0.97
118	6687.00	89.40	1.30	3913.72	3100.08	-10.26	3100.08	1.37	0.97	0.97
119	6718.00	90.20	1.00	3913.83	3131.08	-9.64	3131.08	2.76	2.58	-0.97
120	6749.00	90.60	1.00	3913.61	3162.07	-9.10	3162.07	1.29	1.29	0.00
121	6780.00	90.90	0.50	3913.21	3193.07	-8.69	3193.07	1.88	0.97	-1.61
122	6811.00	90.90	0.30	3912.72	3224.06	-8.48	3224.06	0.65	0.00	-0.65
123	6842.00	91.30	0.20	3912.13	3255.05	-8.34	3255.05	1.33	1.29	-0.32
124	6873.00	91.50	0.20	3911.37	3286.05	-8.23	3286.05	0.65	0.65	0.00
125	6904.00	91.50	0.40	3910.56	3317.03	-8.07	3317.03	0.64	0.00	0.65
126	6935.00	91.60	0.30	3909.72	3348.02	-7.88	3348.02	0.46	0.32	-0.32
127	6966.00	91.90	0.70	3908.77	3379.01	-7.61	3379.01	1.61	0.97	1.29
128	6997.00	91.20	0.90	3907.93	3409.99	-7.18	3409.99	2.35	-2.26	0.65
129	7028.00	90.90	1.30	3907.37	3440.98	-6.58	3440.98	1.61	-0.97	1.29
130	7058.00	91.20	1.40	3906.82	3470.97	-5.88	3470.97	1.05	1.00	0.33
131	7089.00	91.30	1.30	3906.14	3501.95	-5.15	3501.95	0.46	0.32	-0.32
132	7120.00	91.60	1.60	3905.35	3532.93	-4.36	3532.93	1.37	0.97	0.97
133	7151.00	92.00	1.50	3904.38	3563.90	-3.52	3563.90	1.33	1.29	-0.32
134	7182.00	91.50	1.90	3903.43	3594.88	-2.60	3594.88	2.07	-1.61	1.29
135	7213.00	90.80	1.60	3902.81	3625.86	-1.66	3625.86	2.46	-2.26	-0.97
136	7244.00	91.00	1.90	3902.33	3656.84	-0.71	3656.84	1.16	0.65	0.97
137	7275.00	91.00	2.50	3901.78	3687.81	0.48	3687.81	1.94	0.00	1.94
138	7306.00	91.10	1.90	3901.22	3718.78	1.67	3718.78	1.96	0.32	-1.94
139	7337.00	91.20	1.90	3900.59	3749.76	2.70	3749.76	0.32	0.32	0.00
140	7368.00	90.80	2.00	3900.05	3780.74	3.75	3780.74	1.33	-1.29	0.32
141	7399.00	90.90	2.10	3899.59	3811.71	4.86	3811.71	0.46	0.32	0.32
142	7430.00	90.10	2.10	3899.32	3842.69	6.00	3842.69	2.58	-2.58	0.00
143	7461.00	90.40	1.90	3899.19	3873.67	7.08	3873.67	1.16	0.97	-0.65

Well Report

calmena ENERGY SERVICES

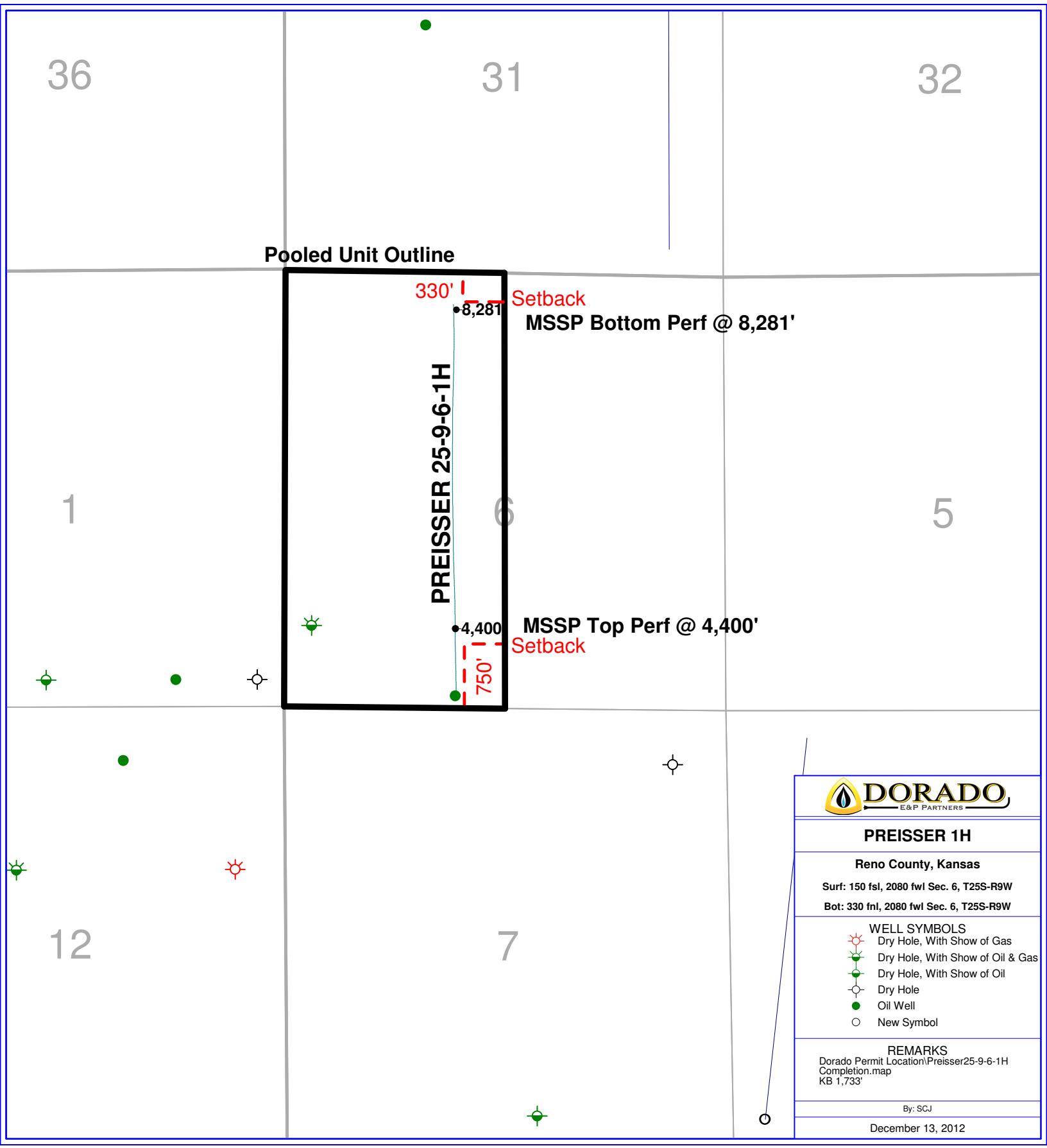
Company : Dorado E&P Partners
Well : Preisser 25-9-6 1H
Location : Reno County Kansas
Reference: Grid North

Date : 9/11/2012
File : OK 12129

Vertical Section Calculated Along Azimuth 0.00°
KB Elevation = 1733.00ft GR. Elevation = 1721.00ft

	MD	Inc	Azi	TVD	North	East	V'Sect	D'Leg	Build	Turn
	ft	deg	deg	ft	ft	ft	ft	°/100	°/100	°/100
144	7492.00	90.60	1.40	3898.92	3904.66	7.97	3904.66	1.74	0.65	-1.61
145	7523.00	90.60	1.40	3898.59	3935.65	8.73	3935.65	0.00	0.00	0.00
146	7554.00	91.00	1.20	3898.16	3966.63	9.43	3966.63	1.44	1.29	-0.65
147	7585.00	90.90	1.00	3897.65	3997.62	10.03	3997.62	0.72	-0.32	-0.65
148	7616.00	90.70	1.30	3897.21	4028.62	10.65	4028.62	1.16	-0.65	0.97
149	7647.00	90.20	1.90	3896.97	4059.60	11.51	4059.60	2.52	-1.61	1.94
150	7678.00	90.60	1.80	3896.75	4090.58	12.51	4090.58	1.33	1.29	-0.32
151	7709.00	89.90	1.70	3896.62	4121.57	13.46	4121.57	2.28	-2.26	-0.32
152	7740.00	89.70	1.40	3896.73	4152.56	14.30	4152.56	1.16	-0.65	-0.97
153	7770.00	88.70	1.50	3897.14	4182.55	15.06	4182.55	3.35	-3.33	0.33
154	7801.00	88.50	1.40	3897.90	4213.53	15.84	4213.53	0.72	-0.65	-0.32
155	7832.00	88.80	1.30	3898.63	4244.51	16.57	4244.51	1.02	0.97	-0.32
156	7863.00	89.10	0.80	3899.20	4275.50	17.14	4275.50	1.88	0.97	-1.61
157	7894.00	88.90	0.40	3899.74	4306.49	17.47	4306.49	1.44	-0.65	-1.29
158	7925.00	88.60	0.10	3900.42	4337.48	17.60	4337.48	1.37	-0.97	-0.97
159	7956.00	88.70	359.70	3901.15	4368.48	17.55	4368.48	1.33	0.32	-1.29
160	7987.00	88.90	0.10	3901.80	4399.47	17.49	4399.47	1.44	0.65	1.29
161	8018.00	89.10	359.90	3902.34	4430.46	17.49	4430.46	0.91	0.65	-0.65
162	8049.00	89.70	0.30	3902.66	4461.46	17.55	4461.46	2.33	1.94	1.29
163	8080.00	89.80	359.80	3902.80	4492.46	17.57	4492.46	1.64	0.32	-1.61
164	8111.00	90.00	0.10	3902.85	4523.46	17.55	4523.46	1.16	0.65	0.97
165	8142.00	90.20	359.40	3902.80	4554.46	17.41	4554.46	2.35	0.65	-2.26
166	8173.00	90.20	359.20	3902.69	4585.46	17.03	4585.46	0.65	0.00	-0.65
167	8204.00	90.40	358.90	3902.53	4616.45	16.52	4616.45	1.16	0.65	-0.97
168	8235.00	90.50	359.00	3902.28	4647.45	15.95	4647.45	0.46	0.32	0.32
169	8266.00	90.70	358.70	3901.96	4678.44	15.33	4678.44	1.16	0.65	-0.97
170	8297.00	90.80	358.80	3901.55	4709.43	14.65	4709.43	0.46	0.32	0.32
EXT	8350.00	90.80	358.80	3900.81	4762.41	13.54	4762.41	0.00	0.00	0.00

Bottom Hole Closure 4762.43ft Along Azimuth 0.16°



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