



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1102106
OIL & GAS CONSERVATION DIVISION

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

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 #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1102106

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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 <i>(Amount and Kind of Material Used)</i>	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: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Commingled <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Dorado E&P Partners, LLC
Well Name	Toews 25-9-4
Doc ID	1102106

All Electric Logs Run

Resistivity
Density-Neutron
FMI
Gamma Ray LWD

Form	ACO1 - Well Completion
Operator	Dorado E&P Partners, LLC
Well Name	Toews 25-9-4
Doc ID	1102106

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
6	STG 1, 5 1' CLUSTERS, 30 SHOTS	217003 GAL CLEAN FLUID, 2500 GAL 15% HCL, 51000# 30/50, 74000# 20/40	9036-9303
6	STG 2, 5 1' CLUSTERS, 30 SHOTS	226715 GAL CLEAN FLUID, 2500 GAL 15% HCl, 52830# 30/50, 78020# 20/40	8685-8981
6	STG 3, 5 1' CLUSTERS, 30 SHOTS	232599 GAL CLEAN FLUID, 2500 GAL 15% HCl, 51000# 30/50, 78000# 20/40	8370-8627
6	STG 4, 5 1' CLUSTERS, 30 SHOTS	231809 GAL CLEAN FLUID, 2500 GAL 15% HCl, 51800# 30/50, 77200# 20/40	8060-8321
6	STG 5, 5 1' CLUSTERS, 30 SHOTS	227791 GAL CLEAN FLUID, 2500 GAL 15% HCl, 51000# 30/50, 78000# 20/40	7740-8001
6	STG 6, 5 1' CLUSTERS, 30 SHOTS	225598 GAL CLEAN FLUID, 2500 GAL 15% HCl, 52300# 30/50, 78500# 20/40	7410-7671
6	STG 7, 5 1' CLUSTERS, 30 SHOTS	225190 GAL CLEAN FLUID, 2500 GAL 15% HCl, 51000# 30/50, 73000# 20/40	7090-7351
6	STG 8, 5 1' CLUSTERS, 30 SHOTS	233068 GAL CLEAN FLUID, 2500 GAL 15% HCl, 51000# 30/50, 77160# 20/40	6760-7031

Form	ACO1 - Well Completion
Operator	Dorado E&P Partners, LLC
Well Name	Toews 25-9-4
Doc ID	1102106

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
6	STG 9, 5 1' CLUSTERS, 30 SHOTS	231860 GAL CLEAN FLUID, 2500 GAL 15% HCl, 50360# 30/50, 77500# 20/40	6440-6701
6	STG 10, 5 1' CLUSTERS, 30 SHOTS	233138 GAL CLEAN FLUID, 2500 GAL 15% HCl, 51000# 30/50, 79800# 20/40	6100-6361
6	STG 11, 5 1' CLUSTERS, 30 SHOTS	229862 GAL CLEAN FLUID, 2500 GAL 15% HCl, 51000# 30/50, 78000# 20/40	5792-6051
6	STG 12, 5 1' CLUSTERS, 30 SHOTS	221096 GAL CLEAN FLUID, 2500 GAL 15% HCl, 51000# 30/50, 80640# 20/40	5440-5719
6	STG 13, 5 1' CLUSTERS, 30 SHOTS	228598 GAL CLEAN FLUID, 2500 GAL 15% HCl, 51000# 30/50, 78000# 20/40	5090-5371
6	STG 14, 5 1' CLUSTERS, 30 SHOTS	215972 GAL CLEAN FLUID, 2500 GAL 15% HCl, 53000# 30/50, 82000# 20/40	4740-5023
6	STG 15, 5 1' CLUSTERS, 30 SHOTS	223644 GAL CLEAN FLUID, 2500 GAL 15% HCl, 53300# 30/50, 56140# 20/40	4350-4662

Form	ACO1 - Well Completion
Operator	Dorado E&P Partners, LLC
Well Name	Toews 25-9-4
Doc ID	1102106

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% CC
INTERMEDIATE	12.25	9.625	36	1433	A-CON / COMMON	650	3% CC / 2% CC
PRODUCTION	8.75	7	26	4468.65	COMMON / AA-2	205	
LINER	6.125	4.5	11.6	9344		570	

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TREATMENT REPORT

Customer Dorado E+P Portals, LLC		Lease No.	Date 9-19-12	
Lease News 25-9-4		Well #		
Field Order # 06577A	Station Pratt KS	Casing 13 3/8	Depth 253'	County Reno
Type Job 13 3/8 conductor		Formation cnw	Legal Description 4-25-9	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size 13 3/8	Tubing Size	Shots/Ft		Acid 300 SKS common	RATE 2%	PRESS 0 CC, 1/4"	ISIP CF @ 15.6
Depth 253'	Depth	From	To	Pre Pad	Max		5 Min.
Volume 37	Volume	From	To	Pad	Min		10 Min.
Max Press 400	Max Press	From	To	Frac	Avg		15 Min.
Well Connection Standard	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 238'	Packer Depth	From	To	Flush Disp H. 20	Gas Volume		Total Load

Customer Representative JAMES	Station Manager scotty	Treater Allen
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Service Units 28443	Eric Wright	Brett Reed					
Driver Names Allen	3370X	20920	19960	21010			

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Notes
6:00 PM					D.S. CASING. Service Log Duke # 20
					in Loc. Discuss Safety Setup Plan Job
6:25					Rig CIR @
6:30					Start out of Hole w/ Bit
					out of Hole w/ Bit
6:50					Rig up to Run 13 3/8 csg. 48'
7:50					Start 13 3/8" casing in Hole.
8:06	200'			5	Casing @ 252' cir w/ Rig.
					Start mix 300 SKS common
			25		w/ 2% CC, 1/4" CF @ 15.6#/gal
8:25				5	Finish mixing amt
8:30	300'		37	3	Start Disp
					Plug down
					Shut IN @ well
					Release PSI Back to TRK.
					Washup Equip. & Rack up.
9:30					Job complete.
					Cement CIR To Pit.
					thanks Allen, Eric
					Brett

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TREATMENT REPORT

Customer	DORADO E & P PARTNERS LLC		Lease No.	25-9-4		Date	9-29-12	
Lease	TOEWS		Well #	25-9-4		Field Order #	10076	
Station	FRAN, KS		Casing			Depth		
Type Job	CANW - CEMENT WIPER STOCK		Formation			County	RENO	
			Legal Description	4-25-9				

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	225 SK.	RATE	PRESS	ISIP
Depth	Depth	From	To	Pre-Pad	COMMON	Max		5 Min.
Volume	Volume	From	To	Spacer	1% CC.	Min		10 Min.
Max Press	Max Press	From	To	Brac	1/2% CFR	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		1/4% DEFORM	HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Brush	16#, 1.15 cft/sk	Gas Volume		Total Load

Customer Representative	JAMES		Station Manager	BOB		Treater	GORDLEY	
Service Units	22283	19907	33708-20920	19831-19862				
Driver Names	STEVE	ALG	ERIC	JESSE				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2200					ON LOCATION 9/28/12 WAIT FOR LOG TOOL
					PLACE WIPER STOCK TOOL AT 3240' - DROP BALL LOADS DRILL PIPE - 2 bbl. PSE UP TO 2500# - WAIT PSE UP TO 3700# - TOOL SET - WORK A.P. A LITTLE...
0650	500	15	3		PUMP 15 bbl. H ₂ O SPACER
	200	46	4		PUMP 225 SK. COMMON CEMENT 1% CC 1/2% CFR 1/4% DEFORMER AT 16.0 ppg 1.15 cft/sk 4.9 gal/hr/sk
	200	1 1/2	3		PUMP 1 1/2 bbl H ₂ O SPACER
0715	500	27	3		PUMP 27 bbl. MUD STING OUT OF TOOL WALL D.P. 100' ABOVE TOOL CIRCULATE HOLE CLEAN WITH MUD PUMP
0800					JOB COMPLETE - KEVIN

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TREATMENT REPORT

Customer Dorado E and P Partners, LLC	Lease No. 1 LLC	Date 10-6-12
Lease Toeius	Well # 25-9-4	
Field Order # 7000	Station Pratt, Kansas	Casing 2 3/4" ID
	Depth 4469 Feet	County Reno
Type Job C.N.W. - Intermediate	Formation	State Kansas
		Legal Description 4-255-9W

PIPE DATA		PERFORATING DATA		CEMENT USED		TREATMENT RESUME		
Casing Size 2 3/4" ID	Tubing Size 2 1/8" ID	Shots/Ft	25 sacks	Start	Completion	RATE	PRESS	ISIP
Depth 4469 Feet	Depth	From	180 Sacks AA-2	with 58 FLA		Max	322.38	Friction Reducer, 28 DeFoamer,
Volume 170.7 Bbl.	Volume	From	To:	18 Free Water Control, 1089	Min	25 Lb/sk cell plate,	10 Min. 5 Lb/sk Gilsomite.	
Max Press	Max Press	From	To:	15.3 Lb/Gal, 5.52	Avg	1.36 CU.F.T.	15 Min. 5K.	
Well Connection Plug Container	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 4425 Feet	Packer Depth	From	To	Flush	169 Bbl. Fresh Water	Gas Volume	Total Load	

Customer Representative James Fud	Station Manager David Scott	Treater Clarence R. Messich
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Service Units	37,216	19,903	19,905	19,831	19,862				
Driver Names	Messich	Mattal	Reed						

Time A.M.	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:00					Trucks on location and hold safety meeting.
					Casing in well and rig circulating upon arrival.
6:15		2000			Shut in well and pressure Test.
6:24	400			5	Start 25 sacks Scavenger cement.
6:26			8	5	Start 180 sacks AA-2 cement.
	-0-		51		Stop pumping. Shut in well. Wash pump and lines.
					Release Top Rubber Plug. Open Well.
6:36	100			6.5	Start Fresh Water Displacement.
			103	5	Start to lift cement.
7:02	650		169		Plug down.
	1,500				Pressure up.
					Release pressure. Float Collar held
	-0-				Wash up pump truck.
8:00					Job Complete.
					Thank You
					Clarence, Mike, Brett

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TREATMENT REPORT

Customer Dorado E and P Partners, LLC	Lease No. LLC	Date 10-16-12
Lease Toews	Well # 25-9-4	
Field Order # 7281	Station Pratt, Kansas	Casing" 11.625 Depth 9342 feet
Type Job C.N.W. - Liner	Formation	County Reno State Kansas
		Legal Description 4-255-9W

PIPE DATA		PERFORATING DATA		CEMENT USED		TREATMENT RESUME	
Casing Size 11.625	Tubing Size 9.875	Shots/Ft 570	From 2580	Rate 1.24	Press. 108	ISIP 15	Friction Reducer
Depth 5008	Depth 4396.72	From 2580	To 15.6Lb	Max 5.43	Water Control 108	10 Min.	
Volume 77.46	Volume 38.13	From 2580	To 15.6Lb	Avg 1.24	Min 1.24	15 Min.	
Max Press	Max Press	From	To				
Well Connection Full Hole	Annulus Vol. Drill Pipe	From	To				
Plug Depth	Packer Depth	From	To	Flush Bbl. Fresh Water	Gas Volume		Total Load 3.796

Customer Representative James Flud	Station Manager David Scott	Treater Clarence R. Messick
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Service Units	37216	19903	19905	19959	21010	70959	19918			
Driver Names	Messick	Mittel	Young	Phive						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
5:00					Truck on location.
					Liner in well and Drill Pipe being ran upon arrival.
					Liner in well. Circulate for D.P.
9:52		4000			Shut in well. Pressure Test. Open Well. 110
9:55	500			5	Start 500 Gallons Mud Flush after Bursting Dist.
			12	5	Start Fresh water Spacer.
			17	5	Start 25 sacks Scavenger cement
	500		25.8	5	start 545 sacks Premium cement.
10:32			146		Stop pumping. Shut in well. Wash pump and lines. Release plug. Open Well.
10:34	200			5	Start 28 kCL Displacement with Sugar init.
			10	5	Start 28 kCL Displacement.
10:43			35		Land Drill Pipe plug.
	1200				Pressure up and release casing plug
				8	
10:44	1300			5	Start casing Displacement.
10:52	400	300	7850	2	slow rate
	600		75		Plug down
	1000				Pressure up
11:04	1300				Release pressure and check Float It held.
11:04	1300				Pressure up and Burst Dist. Pump 5 Bbl. Hook up well to Drill in run to roll hole.

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383

11:30 Wash up pump truck. 12:00 P.M. Job Complete. Thank You. Clarence, Mike, Steve, Dale

Toews 25-9-4-1H
15-155-21592-0100
Pit Hauling (Attached to ACO-1 and CDP-5)

Operator Name: Dorado E&P Partners, LLC
License #: 34715
Lease Name: Moser C 1-22 SWD
Location: N2 NE SE Sec 22-T23S-R8W
County: Reno
Permit #: D-26545
Fluid volume: 9000 bbls

Operator Name: Reh Oil & Gas
License #: 32556
Lease Name: Harrell SWD
Location: NE 27-29S-13W
County: Pratt
Permit #: D-20005
Fluid volume: 400 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: 720 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: 930 bbls

Total Fluid Volume: 11050 bbls

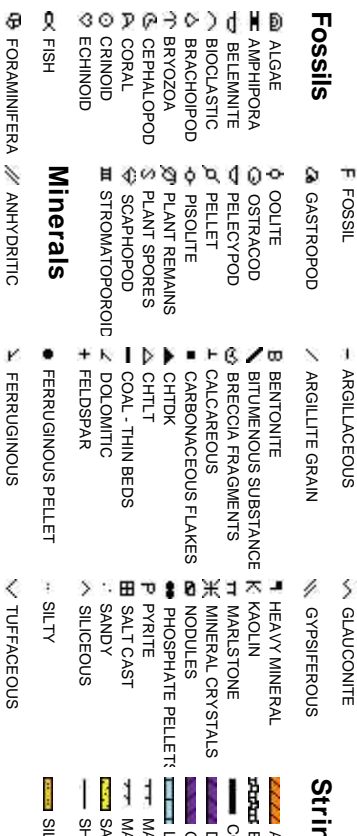
Scale: 5" / 100'
Measured Depth Log

Well Name Toews 24-9-4-1H
Location NW NW Sec4 T25S R9W
State Kansas
Country USA
County Reno
Rig Duke
API Number 15-155-21592
K.B. Elevation 1710
Logged Interval 3200 **To** 9346 **Total Depth** 9346
Formation Osage

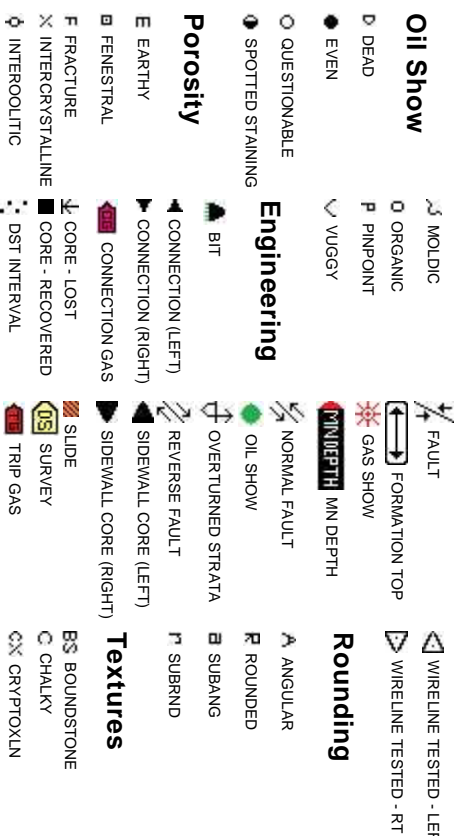
Rock Types



Accessories



Other Symbols



ger

ANHYDRITE STRINGER
ANTONITE STRINGER
DAL STRINGER
DOLOMITE STRINGER
GYPSUM STRINGER
MESTONE STRINGER
MILSTONE (CALC) STRG
MILSTONE (DOL) STRG
MUDSTONE STRINGER
SANDSTONE STRINGER
SANDSTONE STRINGER
SANDSTONE STRINGER

T E EARTHY

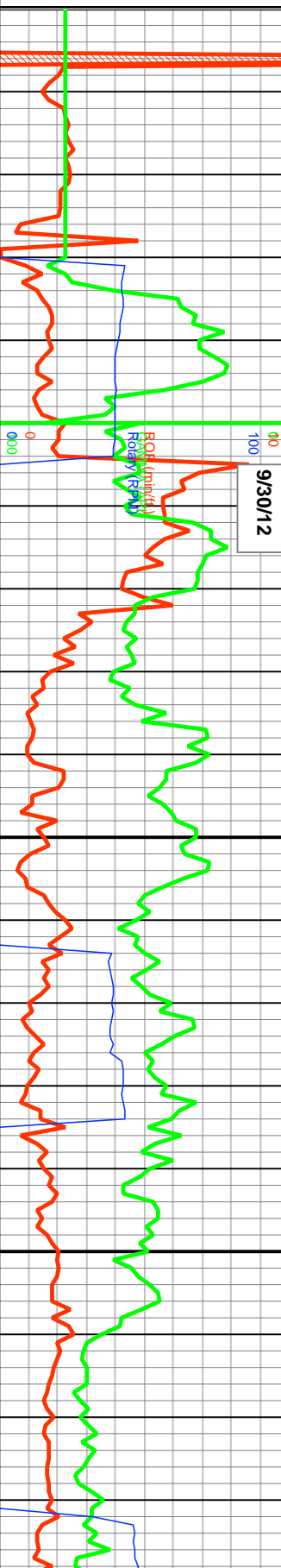
FX FINELYXLN
GS GRAINSTONE
L LITHOGRAPHIC
MX MICROXLN
MS MUDSTONE
PS PACKSTONE
WS WACKSTONE

Sorting

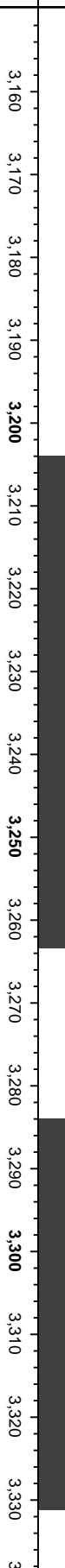
M MODERATE
P POOR
W WELL

ROP

- ROF
- GAMMA
- Rotary



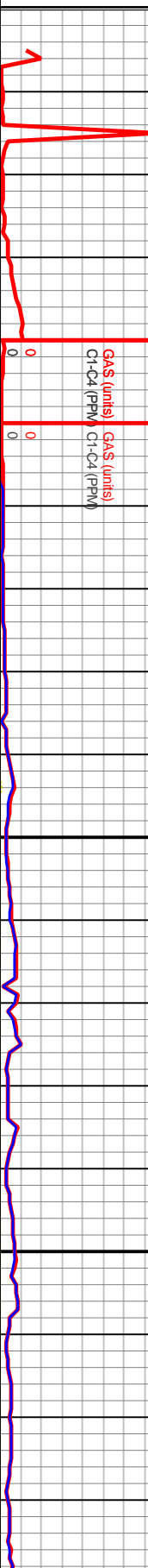
Slide/Rotate



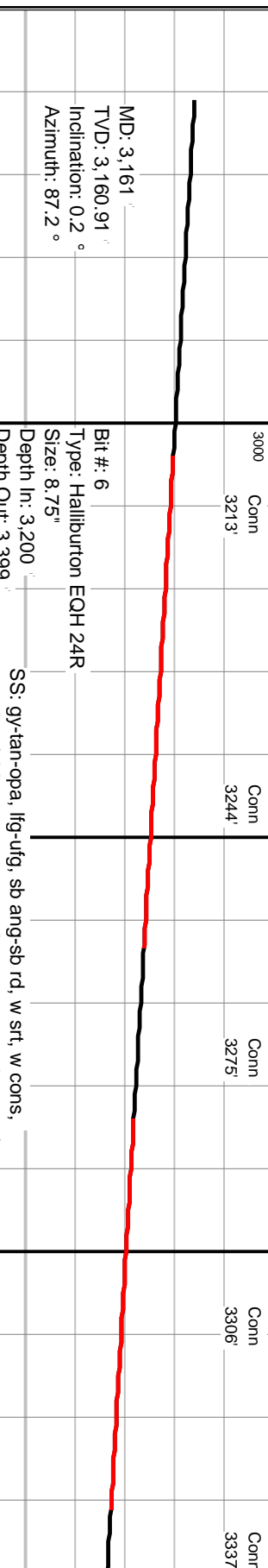
Total Gas & Chromatograph

GAS

- C1
- C2
- C3
- C4



Well Bore



MD: 3,161'
 TVD: 3,160.91'
 Inclination: 0.2°
 Azimuth: 87.2°

Bit #: 6
 Type: Halliburton EQH 24R
 Size: 8.75"
 Depth In: 3,200'
 Depth Out: 3,399'
 S/N: 11980374

SS: gy-tan-opa, lf-g-ufg, sb ang-sb rd, w srt, w cons, qtz-plag-fields grs, mtz sup, calc-arg mtz, v calc, nscof

SH: gy, frm, pily-rlly, fis, sm txt, wxy lstr, c cuttings at surface, plas, v adhesive/cohes

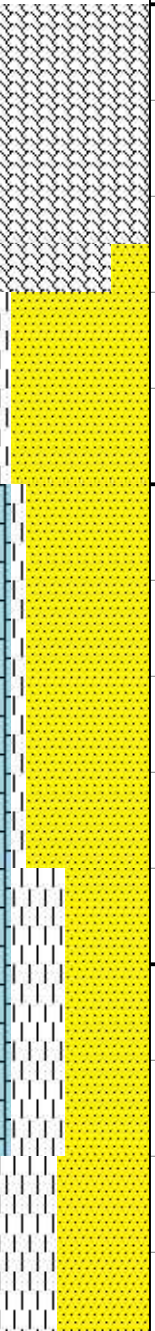
MD: 3,192'
 TVD: 3,191.9'
 Inclination: 0.9°
 Azimuth: 141.8°

MD: 3,254'
 TVD: 3,253.73'
 Inclination: 6.9°
 Azimuth: 155.7°

MD: 3,285'
 TVD: 3,284.42'
 Inclination: 9.3°
 Azimuth: 156.1°

MD: 3,316'
 TVD: 3,314.87'
 Inclination: 12.3°
 Azimuth: 153.2°

% Lith



Images

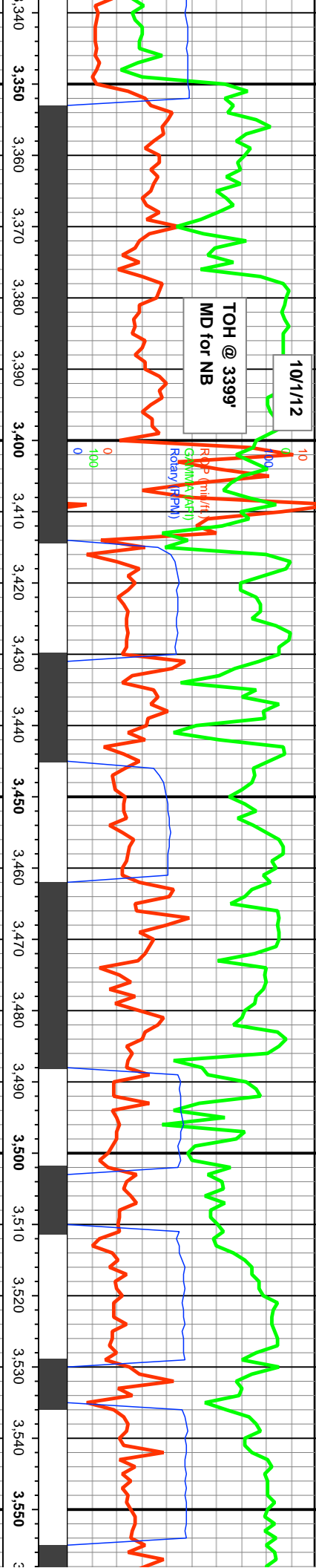


% Porosity

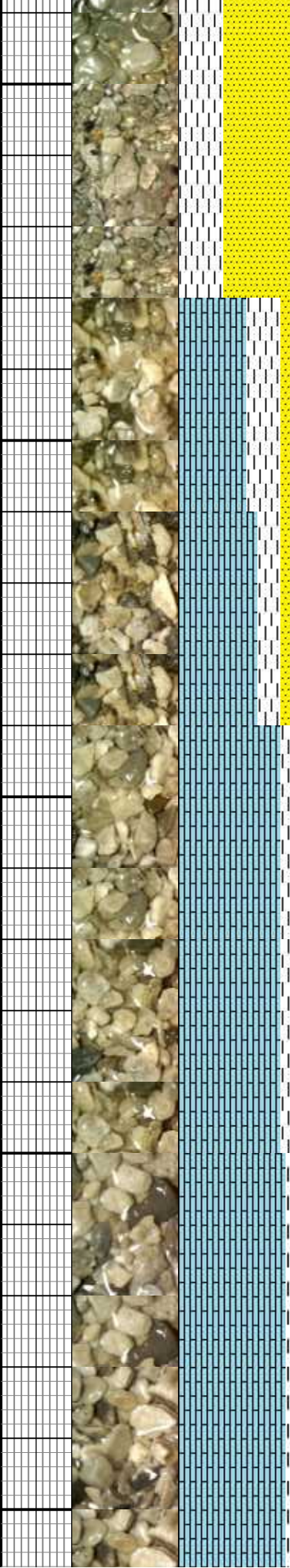
Depth (ft)	% Porosity
3,160	
3,170	
3,180	
3,190	
3,200	
3,210	
3,220	
3,230	
3,240	
3,250	
3,260	
3,270	
3,280	
3,290	
3,300	
3,310	
3,320	
3,330	

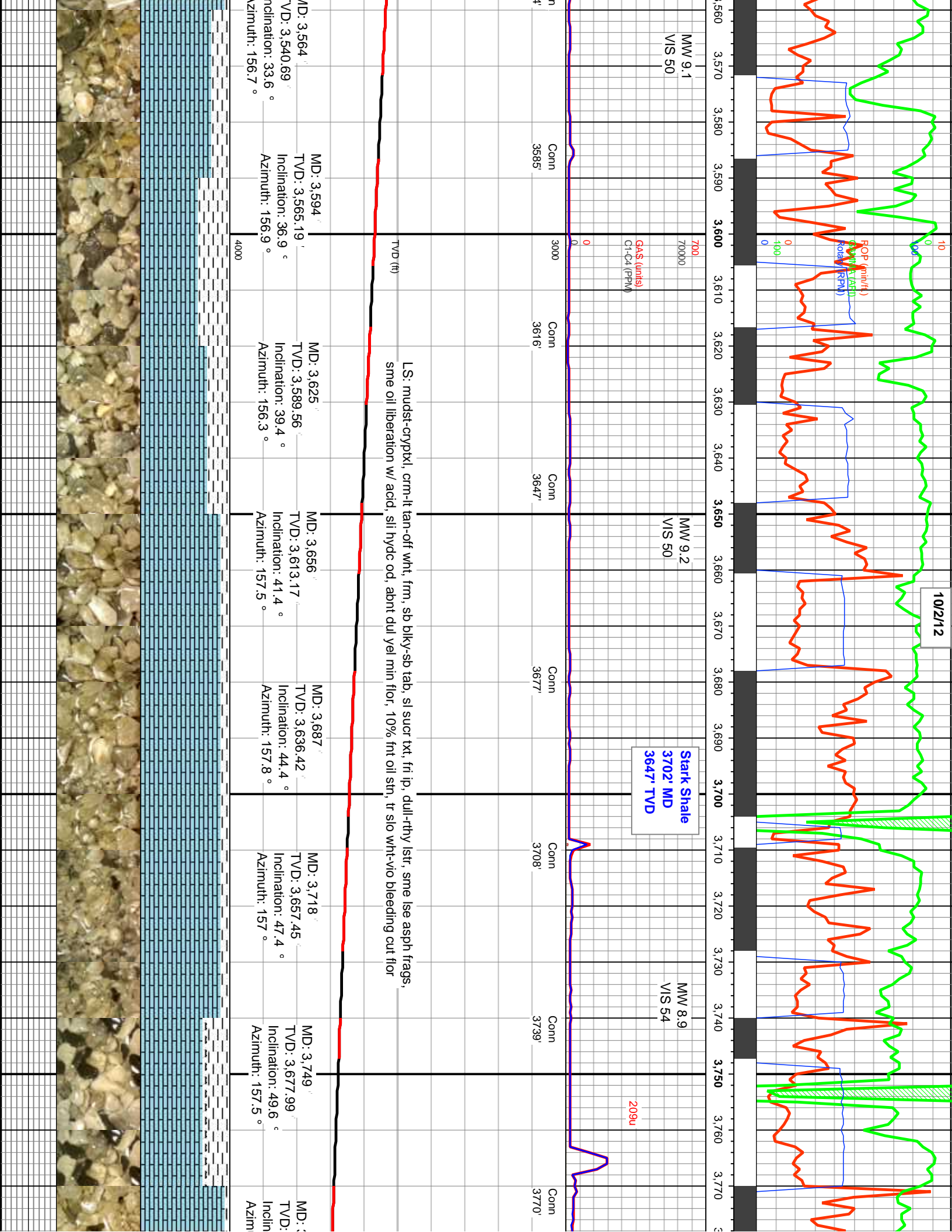
Oil Show

Depth (ft)	Oil Show
3,160	
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	



Conn	MD	TVD	Inclination	Azimuth	Notes
3368'	3,347'	3,345'	14.9°	153.3°	calc, easily hydrated to amorphous, wtr soluble, v calc, nscof
3399'	3,378'	3,374.69'	18.5°	155.4°	
3430'	3,409'	3,403.83'	21.3°	156.2°	LS: mudst-crptxl, sme wckstn, lt gy-tan-crm, hd, sb blkly-sb tab, rgh txt, dull-rthy lst, sdy, abnt dul yel min flor, nscof
3461'	3,440'	3,432.45'	23.9°	156.6°	
3492'	3,471'	3,460.44'	27°	157°	
3523'	3,502'	3,487.76'	29.4°	156.3°	
3553'	3,533'	3,514.52'	31.2°	156.7°	





MW 9.1
VIS 50

MW 9.2
VIS 50

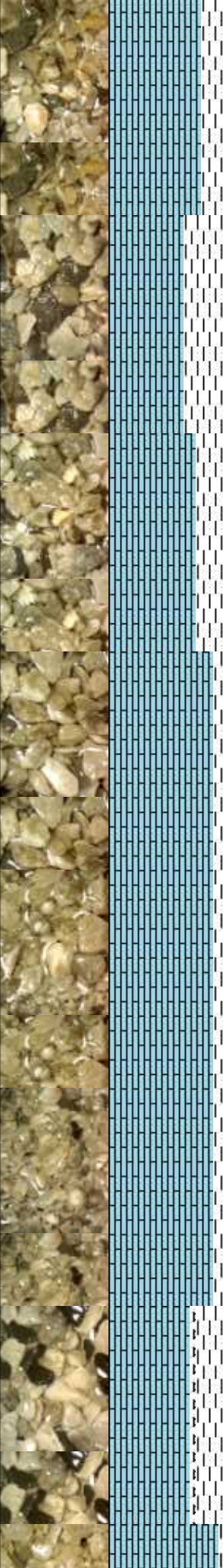
MW 8.9
VIS 54

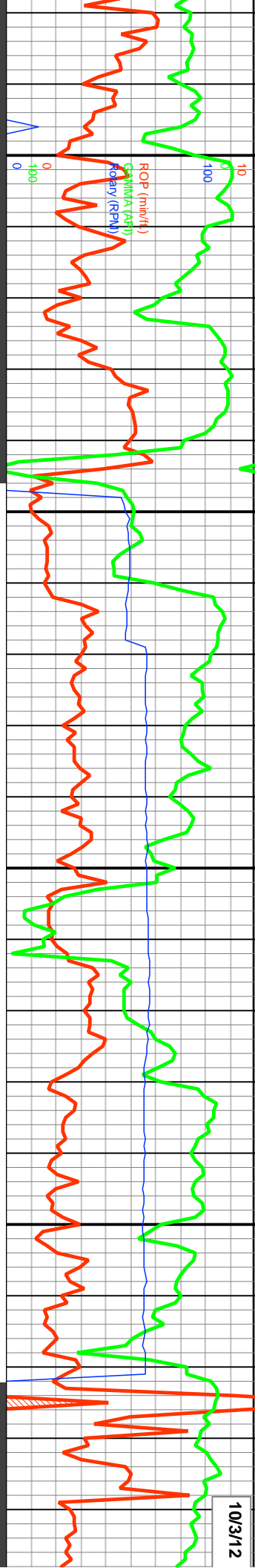
Stark Shale
3702' MD
3647' TVD

209u

MD (ft)	TVD (ft)	Inclination (°)	Azimuth (°)
3564	3540.69	33.6	156.7
3594	3565.19	36.9	156.9
3625	3589.56	39.4	156.3
3656	3613.17	41.4	157.5
3687	3636.42	44.4	157.8
3718	3657.45	47.4	157
3749	3677.99	49.6	157.5
3770			

LS: mudst-cryptxl, crm-lt tan-off wht, frm, sb blk-y-sb tab, sl sucr txt, fri ip, dull-rthy lstr, sme lse asph frags, sme oil liberation w/ acid, sli hydc od, abprt dul yel min flor, 10% fnt oil str, tr slo wht-vio bleeding cut flor





780 3,790 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

700 126u
70000
MW 9.1
VIS 51

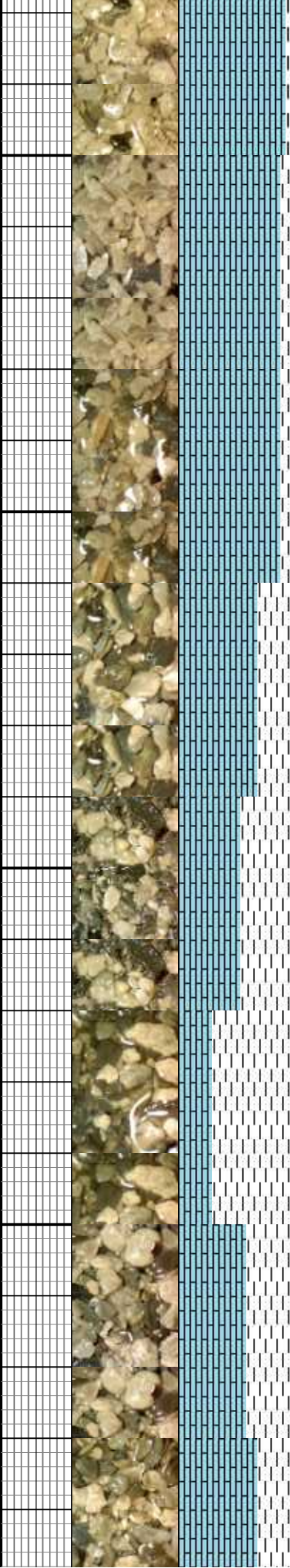
MW 9.3
VIS 53

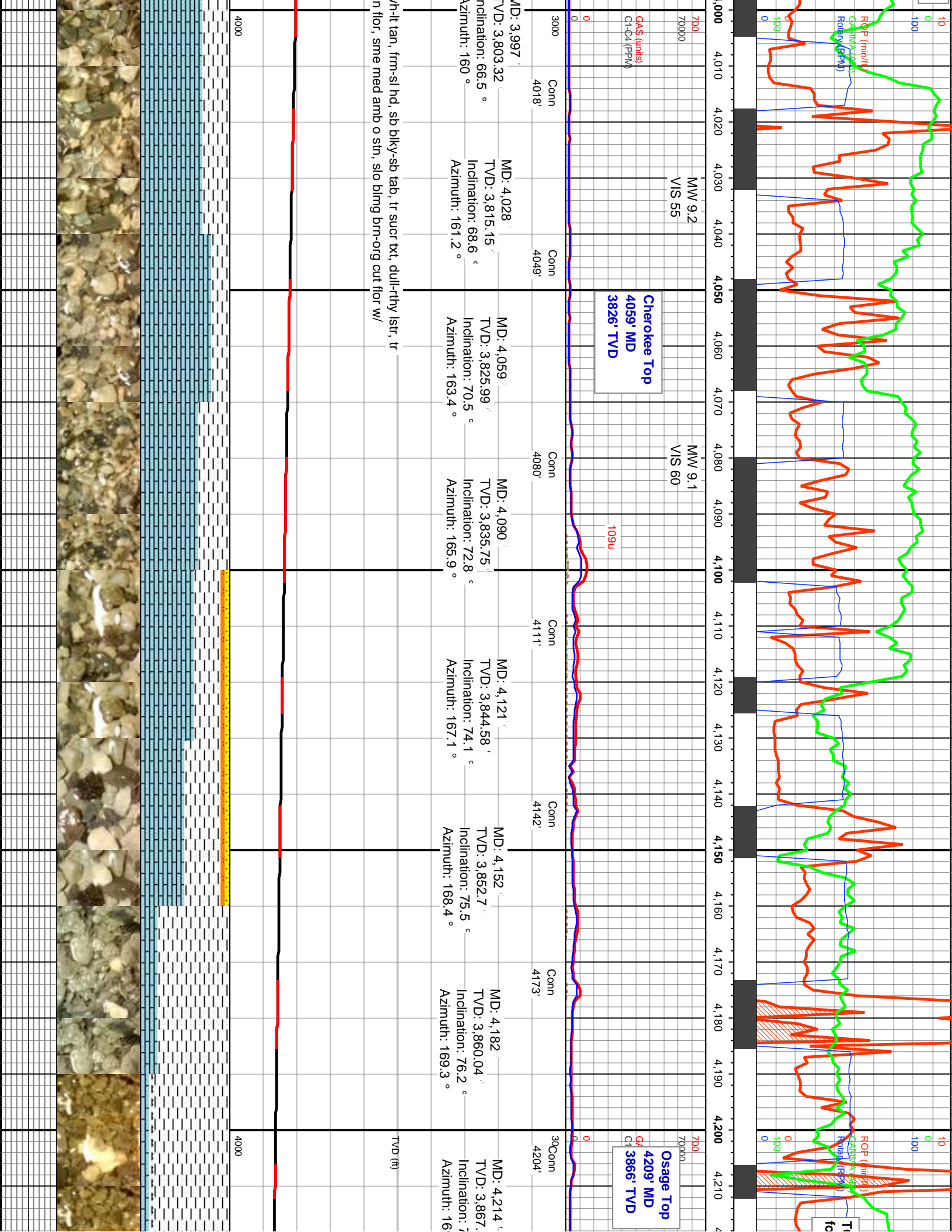
Conn	MD	TVD	Inclination	Azimuth
3801'	3,780'	3,697.47'	52.5°	157.4°
3832'	3,842'	3,731.53'	60.3°	158.2°
3863'	3,873'	3,746.75'	60.9°	158.6°
3894'	3,904'	3,761.66'	61.6°	157.9°
3925'	3,935'	3,776.19'	62.5°	158.1°
3956'	3,966'	3,790.24'	63.6°	158.5°
3987'	3,996'	3,804.79'	64.7°	158.9°

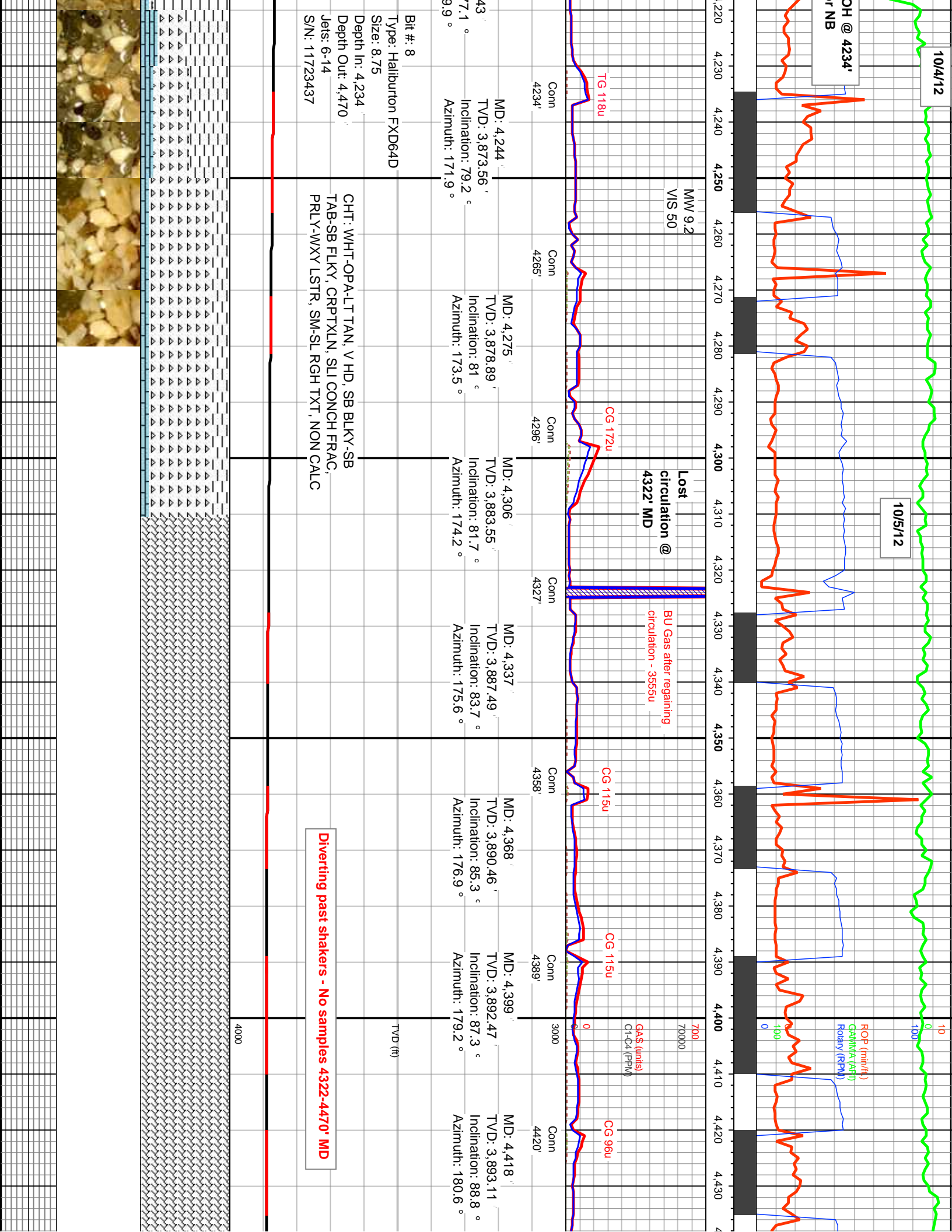
TVD (ft)

SH: lt gy-dk gy, frm - sl hd, sb blk-ss tab, sl-mod fis, rthy-dull lstr, calc

LS: mudst-wackst, lt gy-ff v intrxn poro, abnt dul yel m 10% slo wht-vio bleeding









Pump #1 on hole
Pump #2 circulating pits

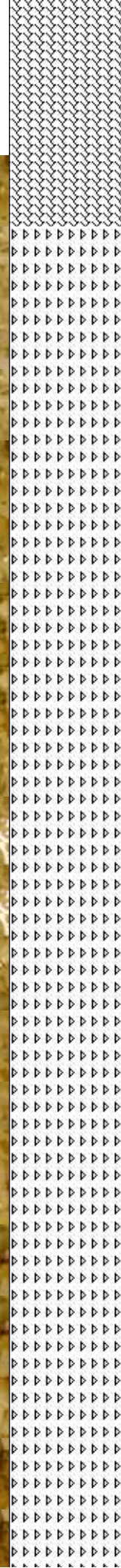
C1 - 58.6%
 C2 - 14.0%
 C3 - 13.6%
 C4 - 13.8%

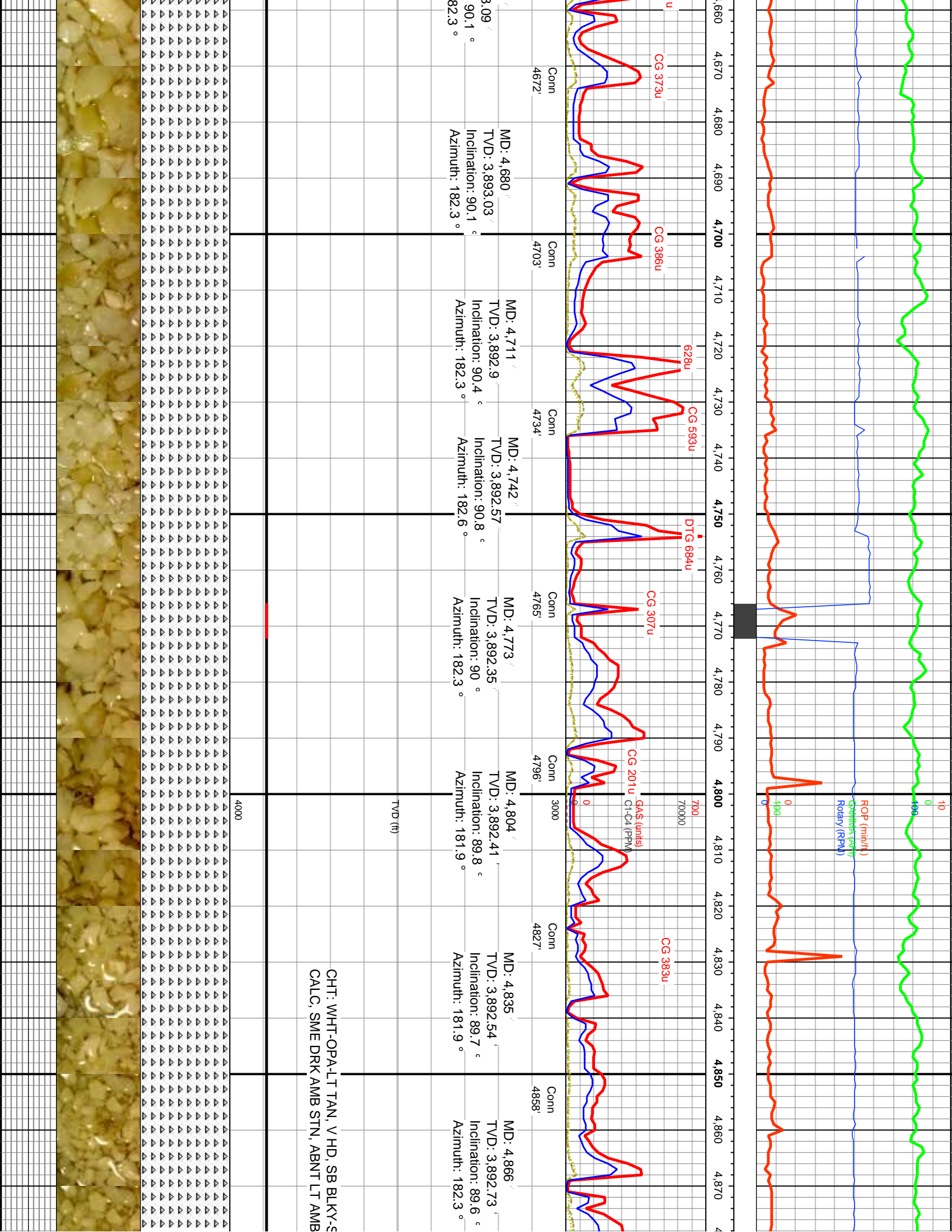
GAS (units)
 C1-C4 (PPM)

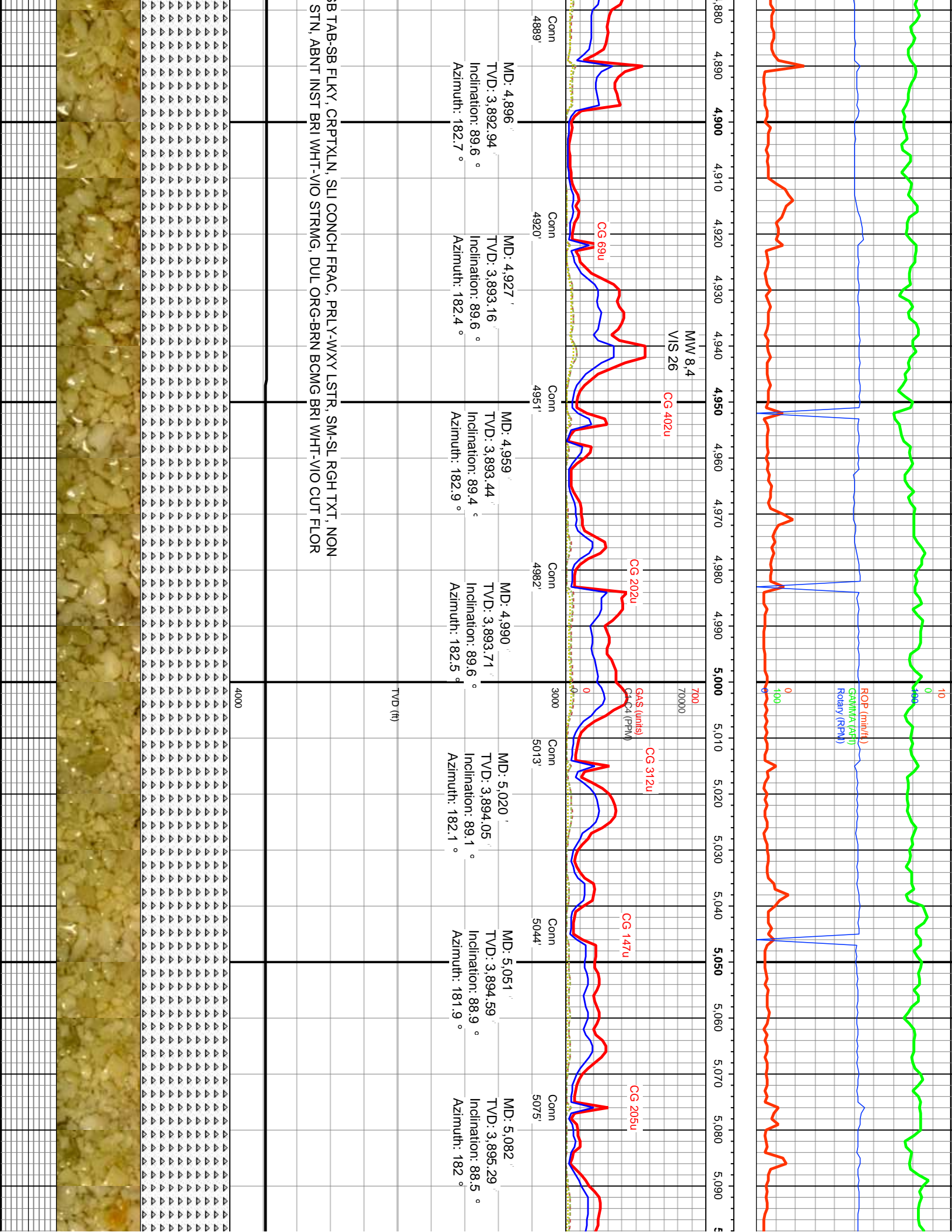
Bit #: 9
 Type: Halliburton PDC
 Size: 6.125"
 Depth In: 4,470'
 Depth Out: 8,539'
 Jets: 6-14
 S/N: 11617749

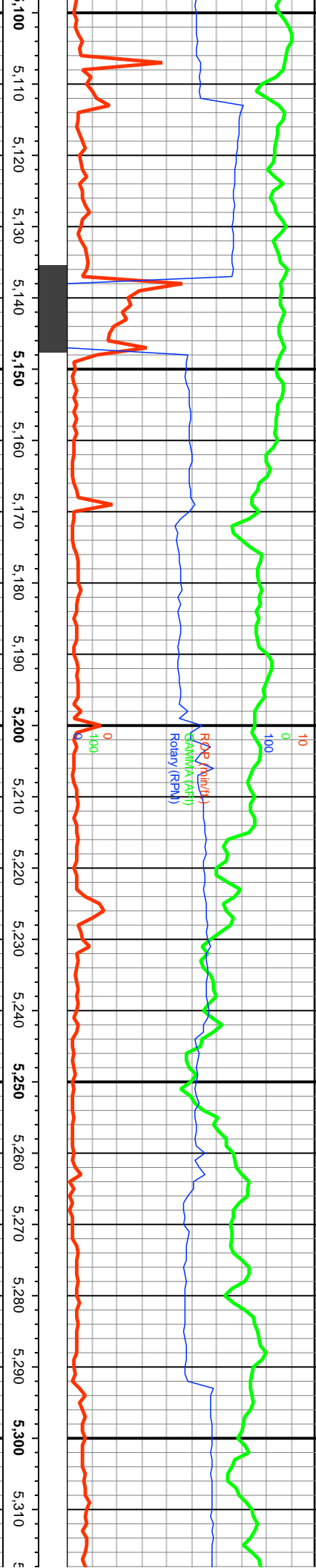
CHT: WHT-OPAL-TAN, V HD, SB BLKY-SB TAB-SB FLKY, CRPTXLN, SLI CONCH FRAC, PRLY-WXY LSTR, SM-SL RGH TXT, NQN
 CALC, SME DRK AMB STN, ABNT LT AMB STN, ABNT INST BRI WHT-VIO STRMG, DUL ORG-BRN BCMG BRI WHT-VIO CUT FLOR

Conn	MD	TVD	Inclination	Azimuth
4451'	4,493'	3,893.77'	90.2°	181.5°
4485'	4,524'	3,893.66'	90.2°	182.6°
4516'	4,555'	3,893.5'	90.4°	182.7°
4547'	4,586'	3,893.31'	90.3°	182.6°
4578'	4,618'	3,893.17'	90.2°	182.4°
4609'	4,649'	3,893.1'	Inclination:	1









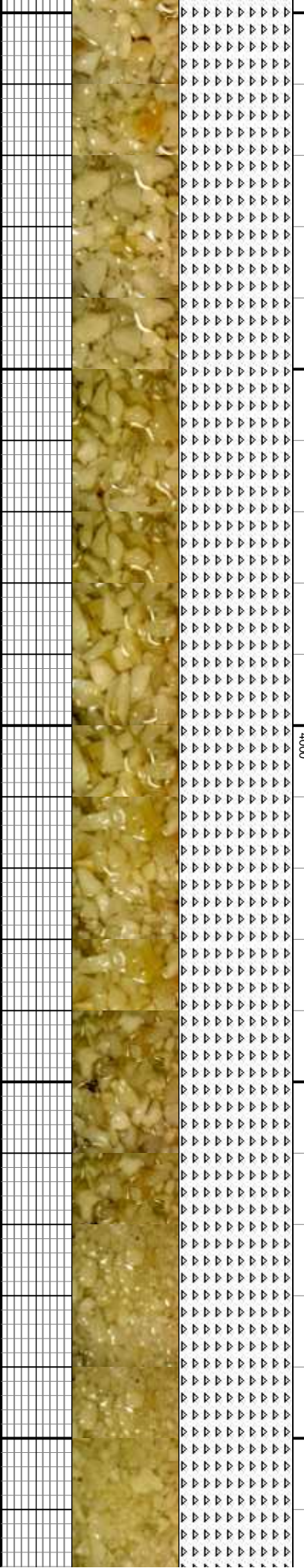
NMW 8,4
VIS 26

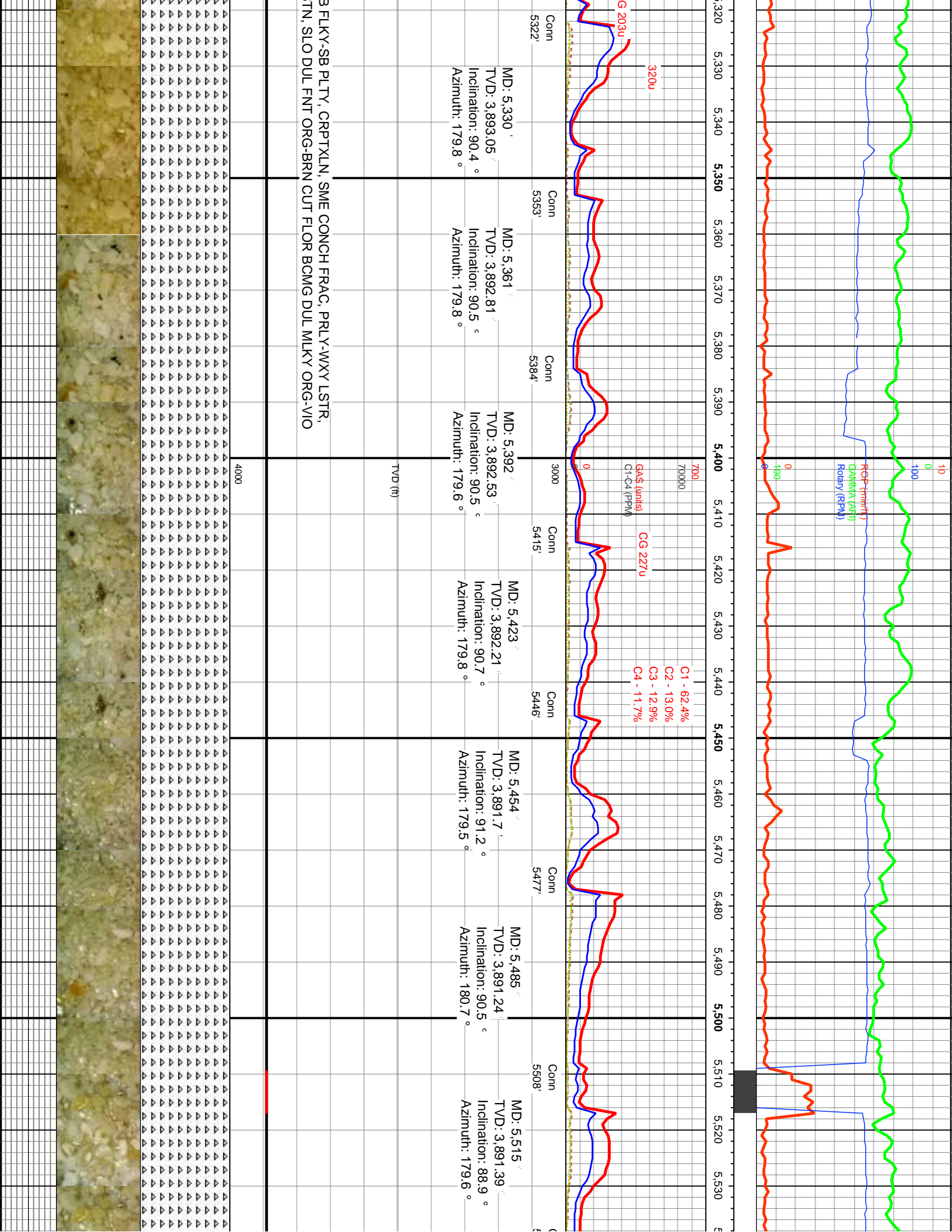
CG 175u
CG 106u
CG 162u
CG 71u

C1 - 90.8%
C2 - 4.0%
C3 - 5.2%

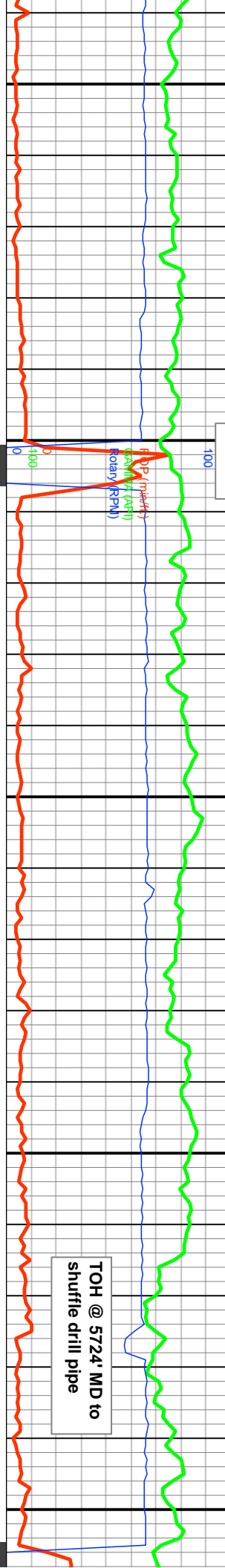
Conn	MD	TVD	Inclination	Azimuth
5105'	5,113'	3,895.94'	89.1°	181.8°
5136'	5,144'	3,896.02'	90.6°	181.6°
5167'	5,175'	3,895.56'	91.1°	181.4°
5198'	5,206'	3,894.97'	91.1°	181°
5229'	5,237'	3,894.35'	91.2°	180.8°
5260'	5,268'	3,893.78'	90.9°	180.5°
5291'	5,299'	3,893.35'	90.7°	180°

CHT: WHT-OPA, V HD, SB BLKY-SB TAB-SI
SM-SL RGH TXT, NON CALC, TR LT AMB S



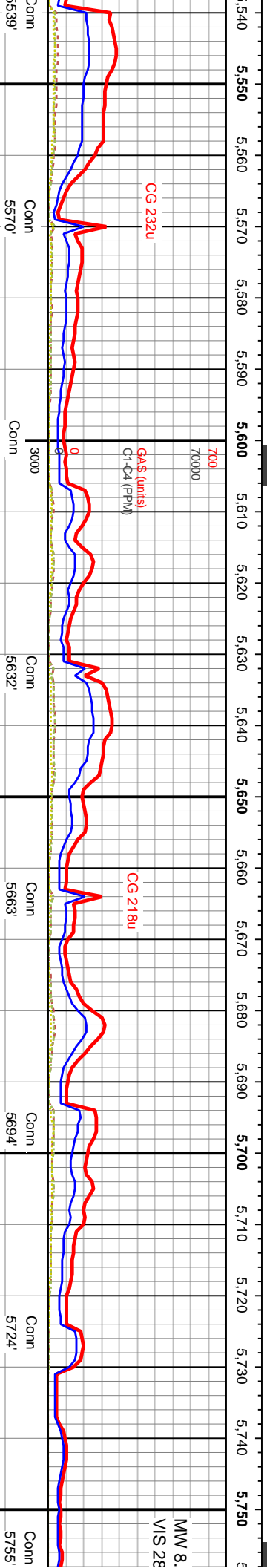


10/8/12



TOH @ 5724' MD to shuffle drill pipe

MW 8
VIS 28



MD: 5,546'
TVD: 3,892.1'
Inclination: 88.5 °
Azimuth: 179.5 °

MD: 5,577'
TVD: 3,892.94'
Inclination: 88.4 °
Azimuth: 180.2 °

MD: 5,609'
TVD: 3,893.58'
Inclination: 89.3 °
Azimuth: 179.7 °

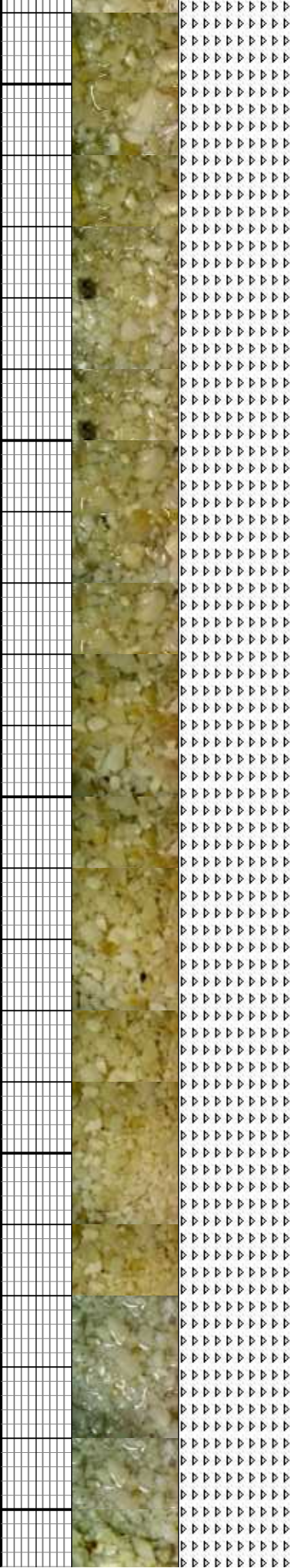
MD: 5,639'
TVD: 3,893.94'
Inclination: 89.3 °
Azimuth: 180 °

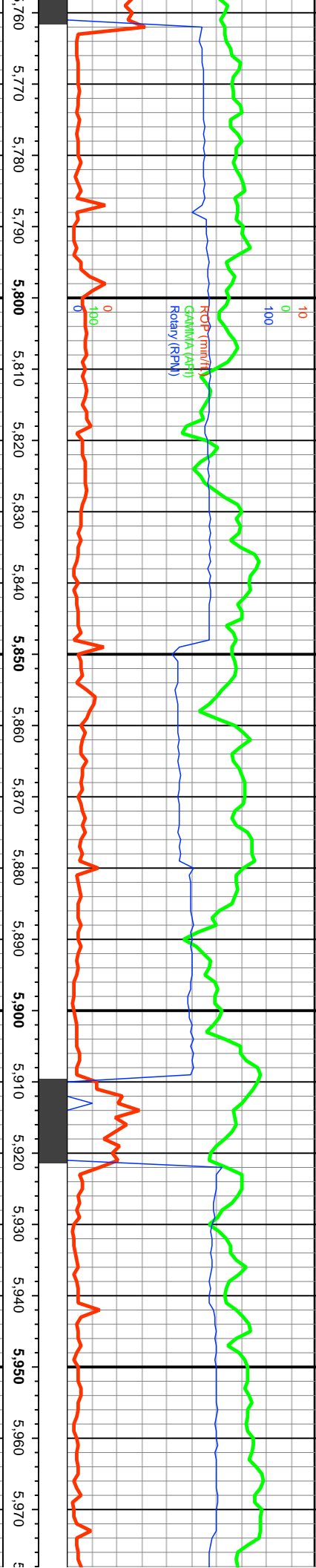
MD: 5,670'
TVD: 3,894.24'
Inclination: 89.6 °
Azimuth: 179.7 °

MD: 5,701'
TVD: 3,894.51'
Inclination: 89.4 °
Azimuth: 179.7 °

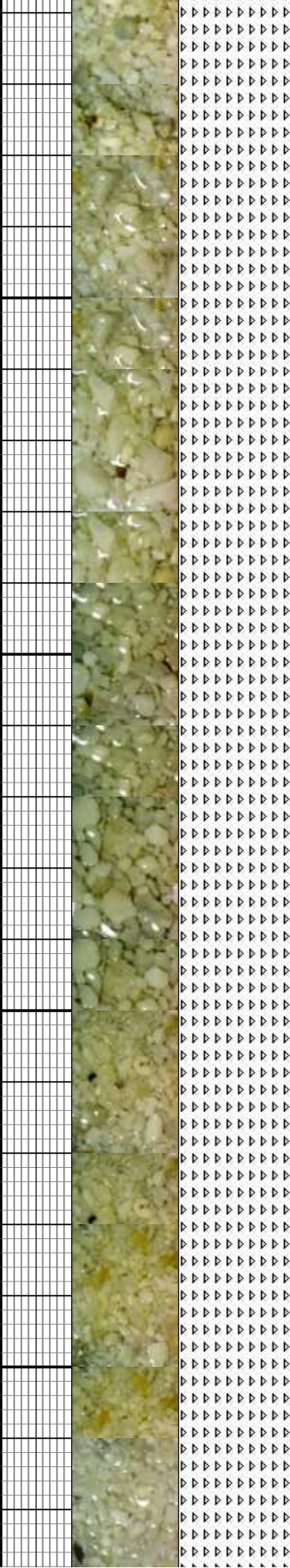
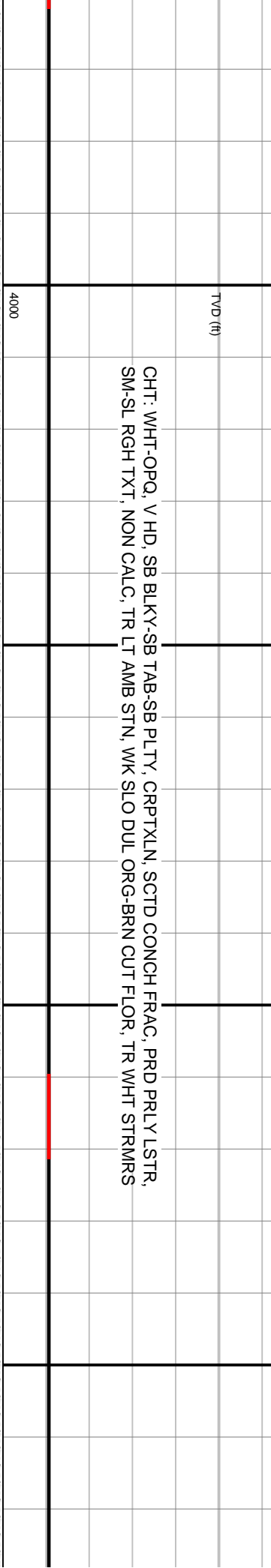
MD: 5,732'
TVD: 3,894.54'
Inclination: 89 °
Azimuth: 179.6 °

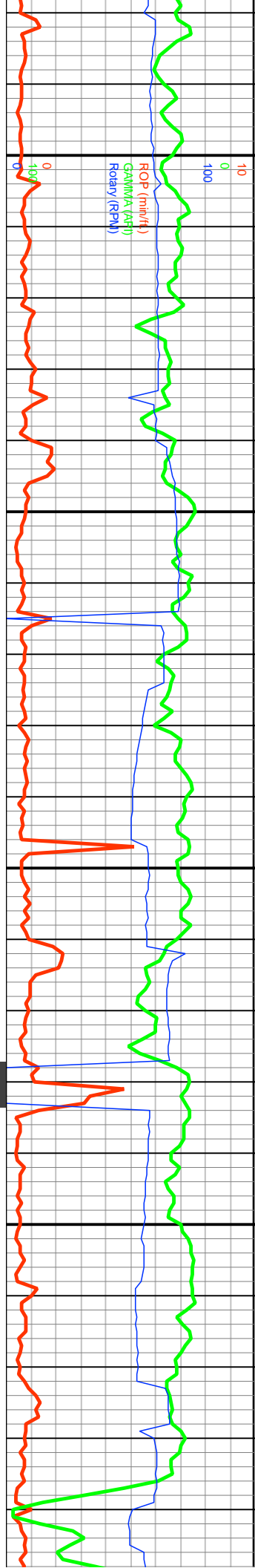
CHT: WHT-OPA, VHD, SB BLKY-SB TAB-SB FLKY-SB PLTY, CRPTXLN, SME CONCH FRAC, PRLV-WXY LSTR, SM-SL
RGH TXT, NON CALC, INCRG LT AMB STN, SLO DUL ORG-BRN CUT FLOR BCMG BRI VIO, OCC SLO BLEEDING WHT





MD: 5,763	MD: 5,794	MD: 5,825	MD: 5,856	MD: 5,887	MD: 5,918	MD: 5,949
TVD: 3,895.35	TVD: 3,895.59	TVD: 3,895.78	TVD: 3,896.03	TVD: 3,896.38	TVD: 3,896.41	TVD: 3,896.03
Inclination: 89.5	Inclination: 89.6	Inclination: 89.4	Inclination: 89.4	Inclination: 89.3	Inclination: 90.6	Inclination: 90.8
Azimuth: 179.1	Azimuth: 179.2	Azimuth: 178.9	Azimuth: 178.9	Azimuth: 179.3	Azimuth: 178.9	Azimuth: 178.8





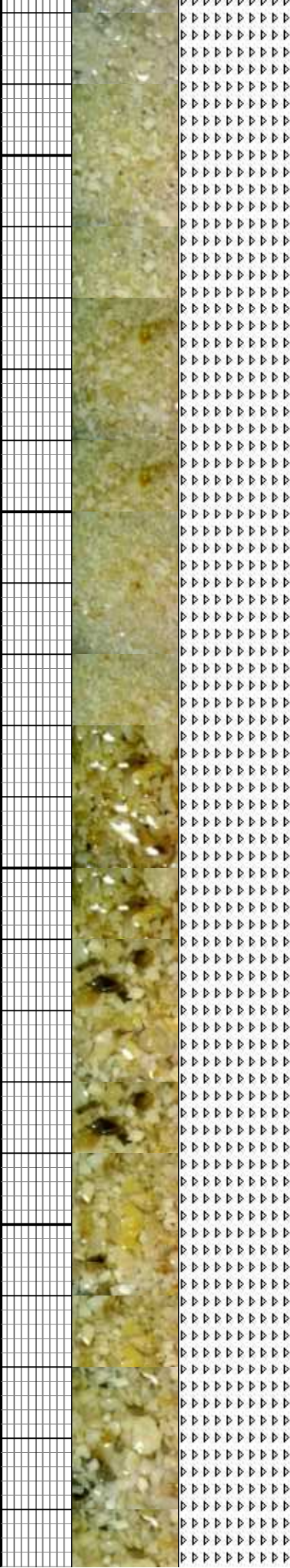
700
70000
CG 261u
GAS (units)
C1-C4 (PPM)

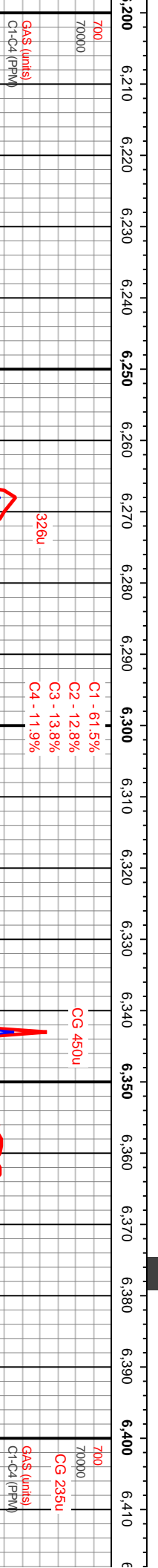
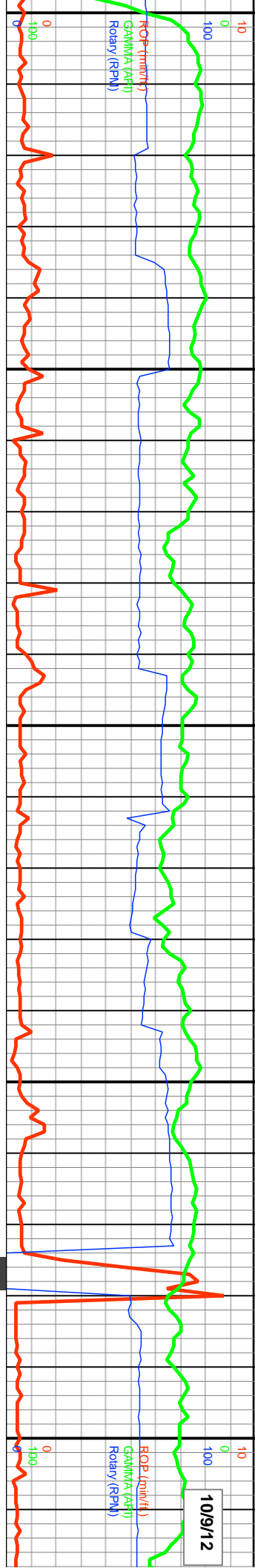
MD (m)	TVD (m)	Inclination (°)	Azimuth (°)
6,011	3,895.22	90.8	179
6,042	3,894.76	90.9	178.7
6,073	3,894.24	91	178.9
6,104	3,893.57	91.5	178.9
6,135	3,893.02	90.5	179.8
6,165	3,892.81	90.3	179.8
6,196	3,89		

Conn 6003
Conn 6034
Conn 6065
Conn 6096
Conn 6127
Conn 6158
Conn 6189

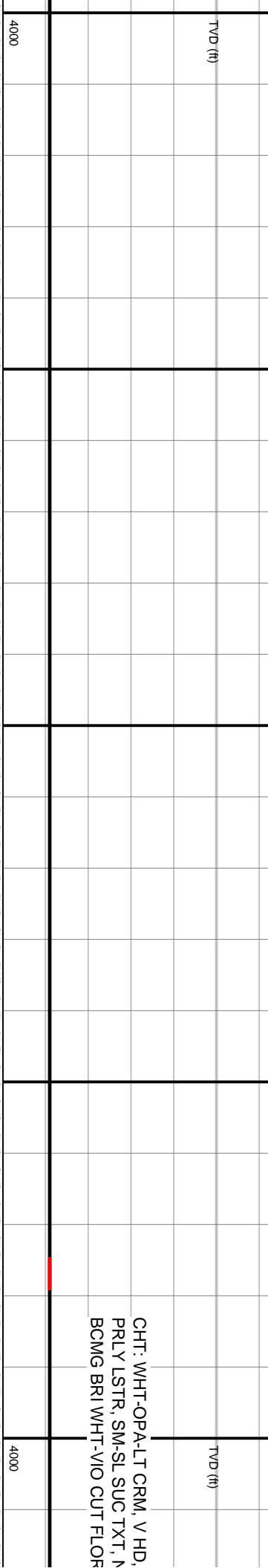
CHT: WHT-OPA-LT CRM, V HD, SB BLKY-SB TAB-SB PLTY, CRPTXLN, SME CONCH
FRAC, PRLY LSTR, SM-SL SUC TXT, NON CALC, OCC GRY CHT, SUC TXT, RTHY
LSTR, SME LT AMB STN, WK SLO DUL ORG-BRN CUT FLOR, TR WHT STFMRS

4000

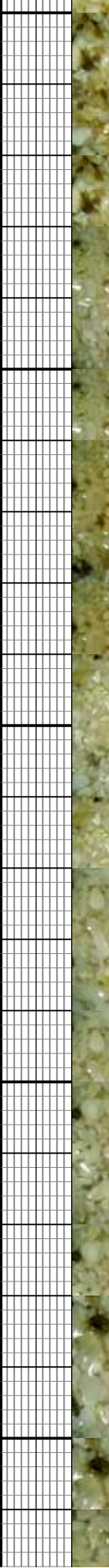




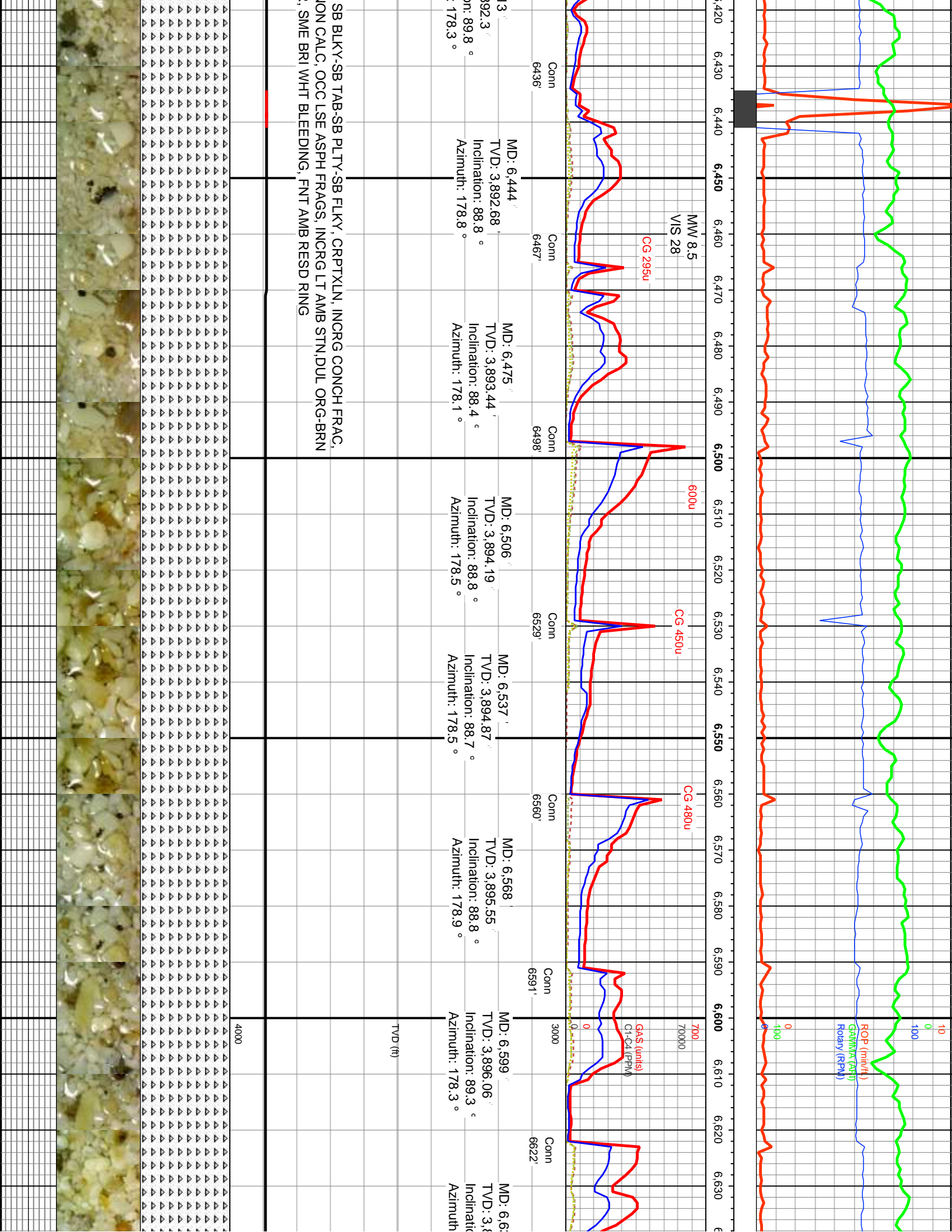
MD (ft)	TVD (ft)	Inclination (°)	Azimuth (°)
6227	3,892.84	90	179.6
6258	3,892.79	90.2	179.2
6289	3,892.71	90.1	178.8
6320	3,892.6	90.3	179
6351	3,892.35	90.5	179.1
6382	3,892.22	89.9	178.6
6405	3,892.22	89.8	79.2

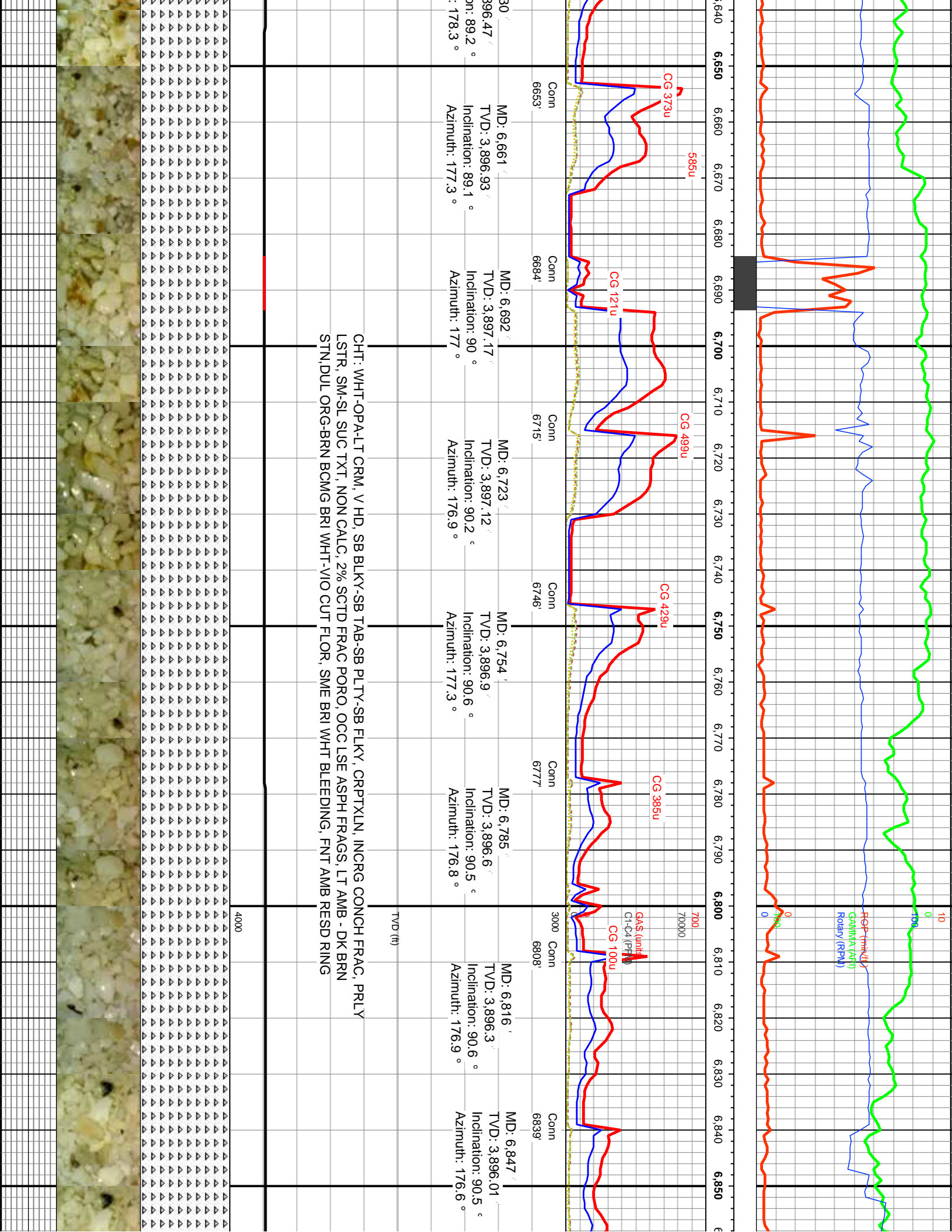


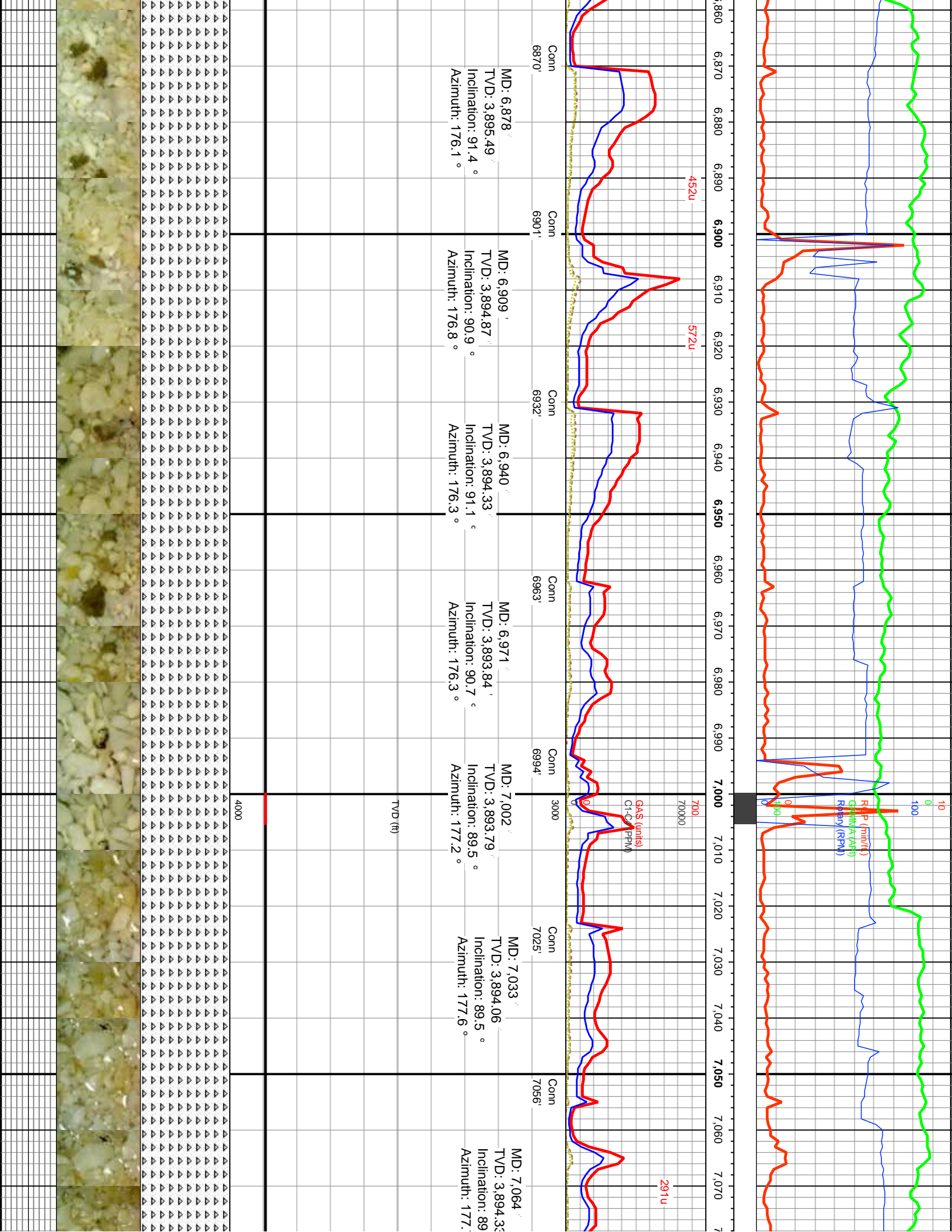
MD (ft)	TVD (ft)	Inclination (°)	Azimuth (°)
6227	3,892.84	90	179.6
6258	3,892.79	90.2	179.2
6289	3,892.71	90.1	178.8
6320	3,892.6	90.3	179
6351	3,892.35	90.5	179.1
6382	3,892.22	89.9	178.6
6405	3,892.22	89.8	79.2

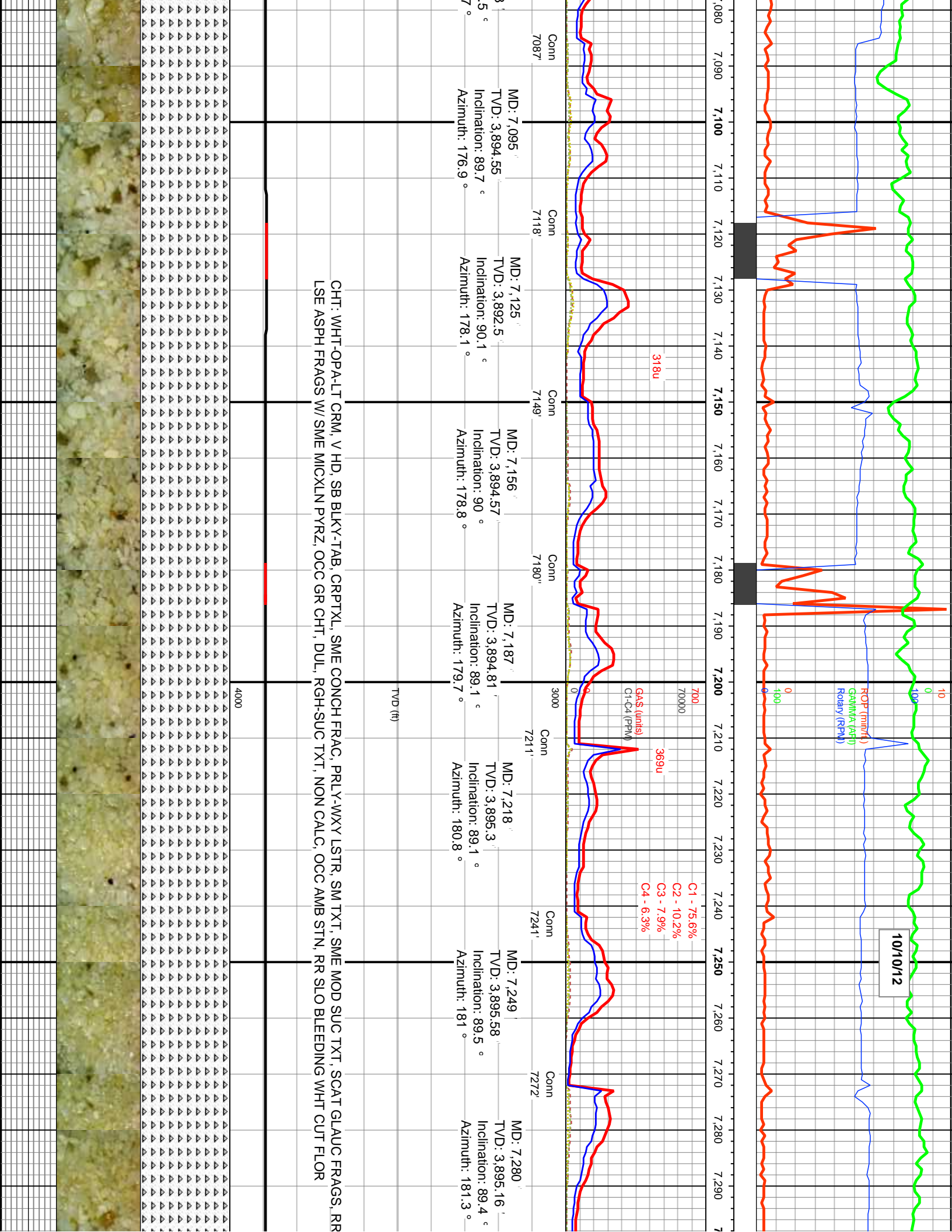


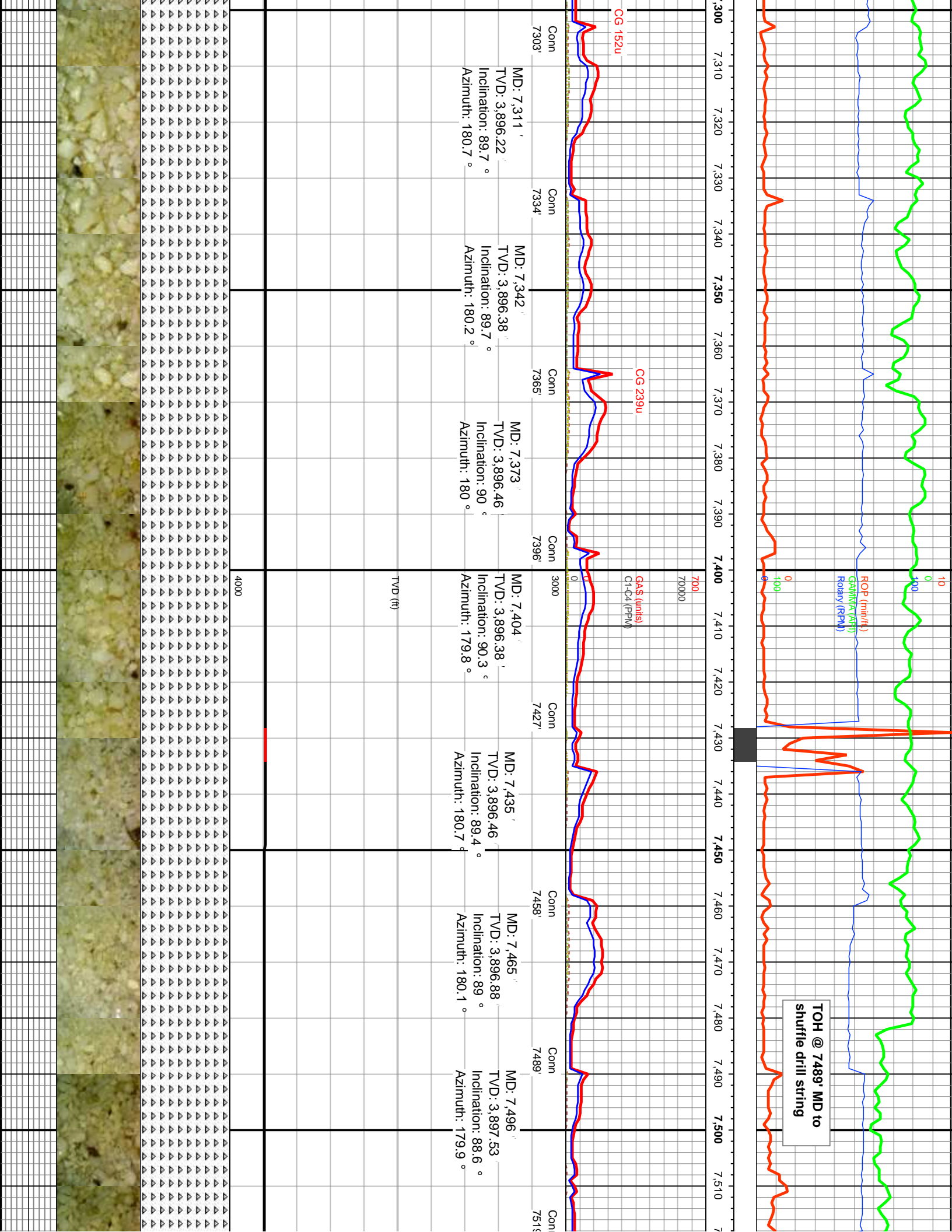
CHT: WHT-OPA-LT CRM, V HD,
 PRL Y LSTR, SM-SL SUC TXT, N
 BCMG BRI WHT-VIO CUT FLOR



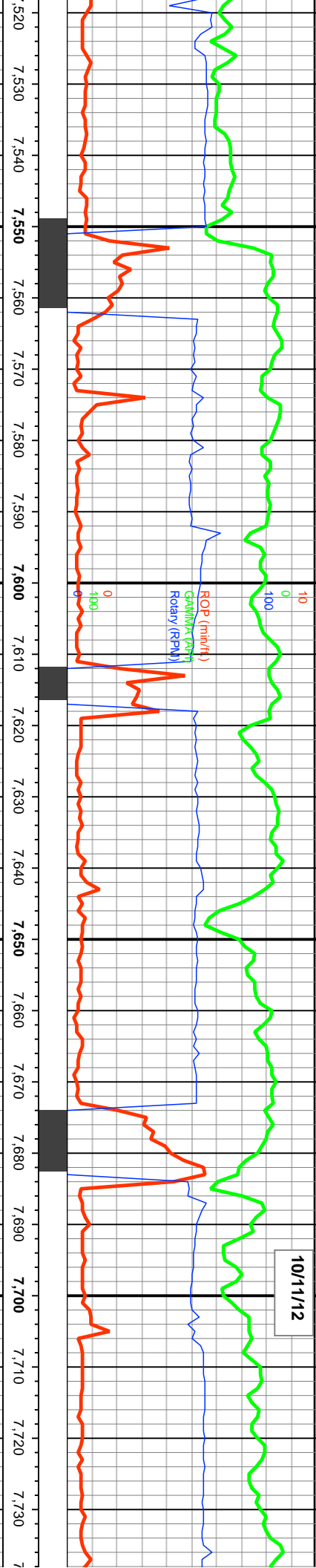








10/11/12



**Pump #1 repaired
Displacement recalibrated
Lag recalculated**

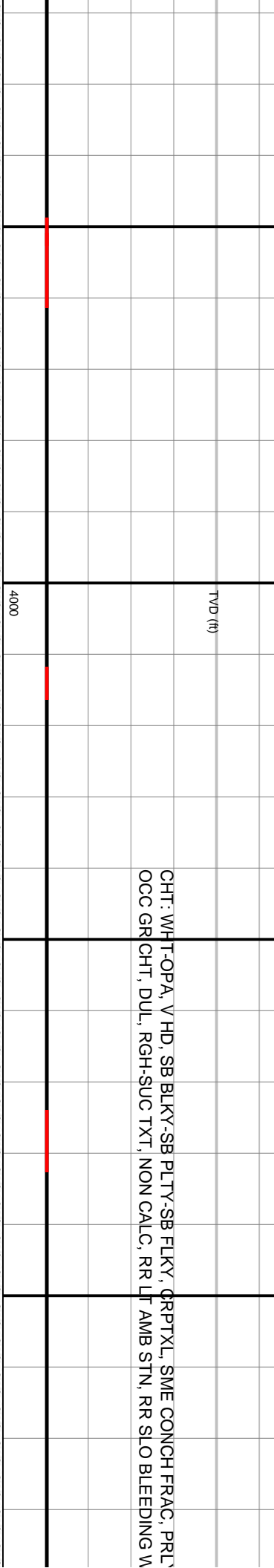
C1 - 74.5%
C2 - 12.1%
C3 - 9.4%
C4 - 4.0%

214u

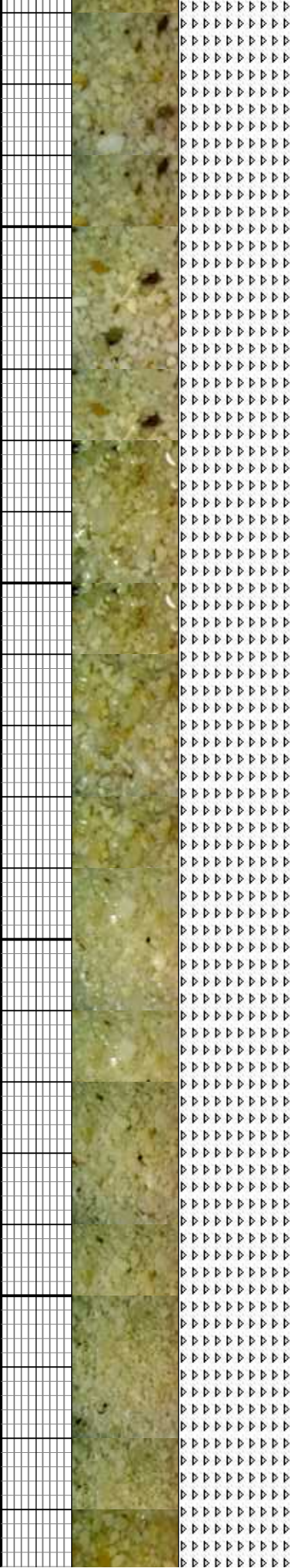
290u

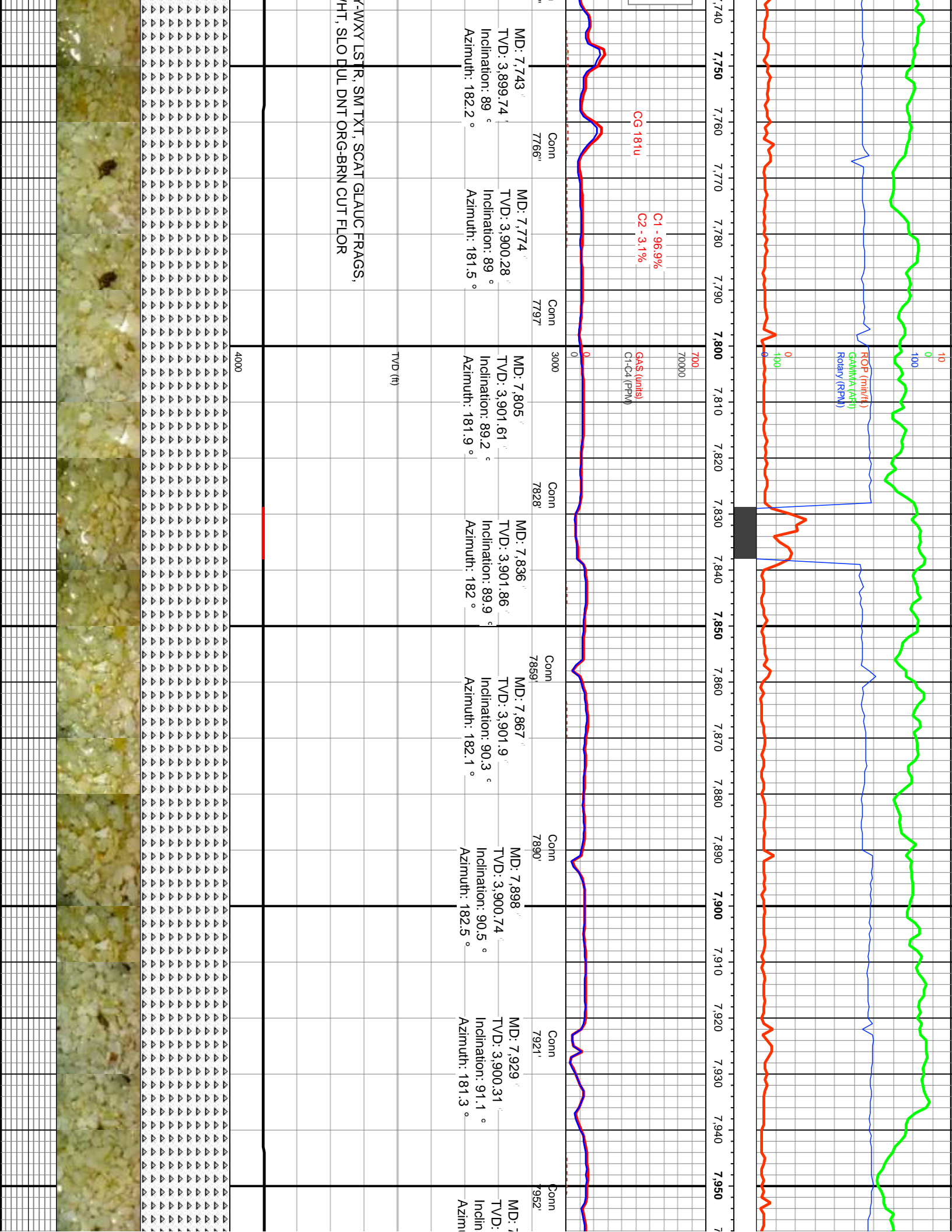
GAS (units)
C1-C4 (PPM)

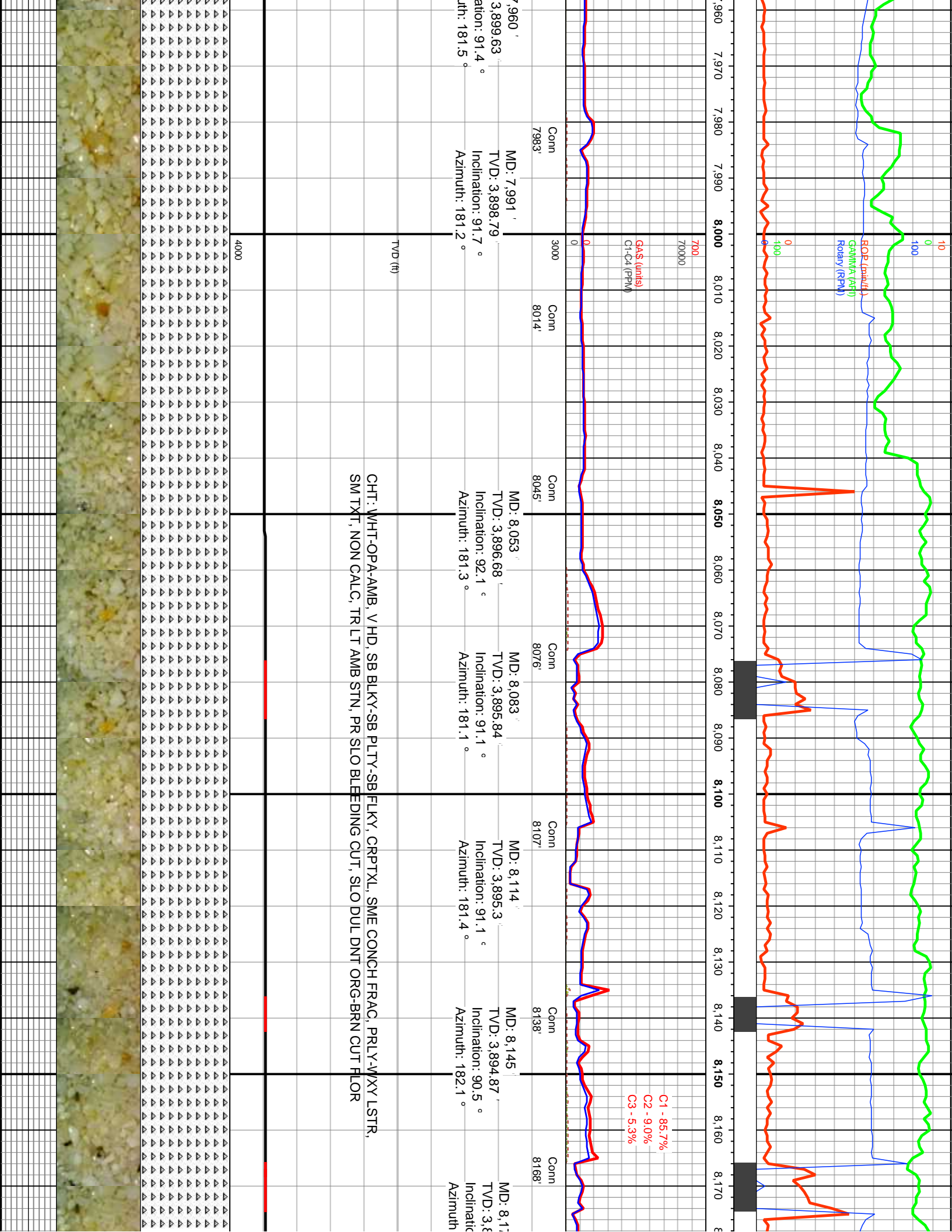
MD: 7,527'	MD: 7,557'	MD: 7,588'	MD: 7,619'	MD: 7,650'	MD: 7,682'	MD: 7,712'
TVD: 3,898.18 °	TVD: 3,898.44 °	TVD: 3,898.31 °	TVD: 3,898.31 °	TVD: 3,898.36 °	TVD: 3,898.73 °	TVD: 3,899.22 °
Inclination: 89 °	Inclination: 90 °	Inclination: 90.1 °	Inclination: 90.1 °	Inclination: 89.7 °	Inclination: 89 °	Inclination: 89.1 °
Azimuth: 179.9 °	Azimuth: 180.3 °	Azimuth: 180.6 °	Azimuth: 180.6 °	Azimuth: 180.9 °	Azimuth: 181.4 °	Azimuth: 181.8 °



CHT: WH-T-OPA_V HD, SB BLKY-SB PLY-SB FLKY, GRPTXL, SME CONCH FRAC, PRL
OCC GR CHT, DUL, RGH-SUC TXT, NON CALC, RR LT AMB STN, RR SLO BLEEDING W







ROP (pink/ft)
 GAMMA (ART)
 Rotary (RPM)

GAS (units)
 C1-C4 (P/M)

C1 - 85.7%
 C2 - 9.0%
 C3 - 5.3%

MD: 7,960'
 TVD: 3,898.79'
 Inclination: 91.4°
 Azimuth: 181.5°

MD: 8,053'
 TVD: 3,896.68'
 Inclination: 92.1°
 Azimuth: 181.3°

MD: 8,083'
 TVD: 3,895.84'
 Inclination: 91.1°
 Azimuth: 181.1°

MD: 8,114'
 TVD: 3,895.3'
 Inclination: 91.1°
 Azimuth: 181.4°

MD: 8,145'
 TVD: 3,894.87'
 Inclination: 90.5°
 Azimuth: 182.1°

CHT: WHT-OPA-AMB, VHD, SB BLKY-SB PLTY-SB FLKY, CRPTYL, SME CONCH FRAC, PRLY-WYXY LSTR,
 SM TXT, NON CALC, TR LT AMB STN, PR SLO BLEEDING CUT, SLO DUL DNT ORG-BRN CUT FLOOR

TVD (ft)

4000

Conn
7983'

Conn
8014'

Conn
8045'

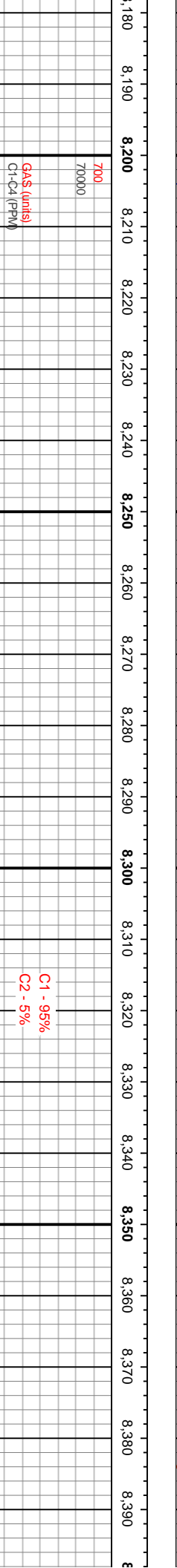
Conn
8076'

Conn
8107'

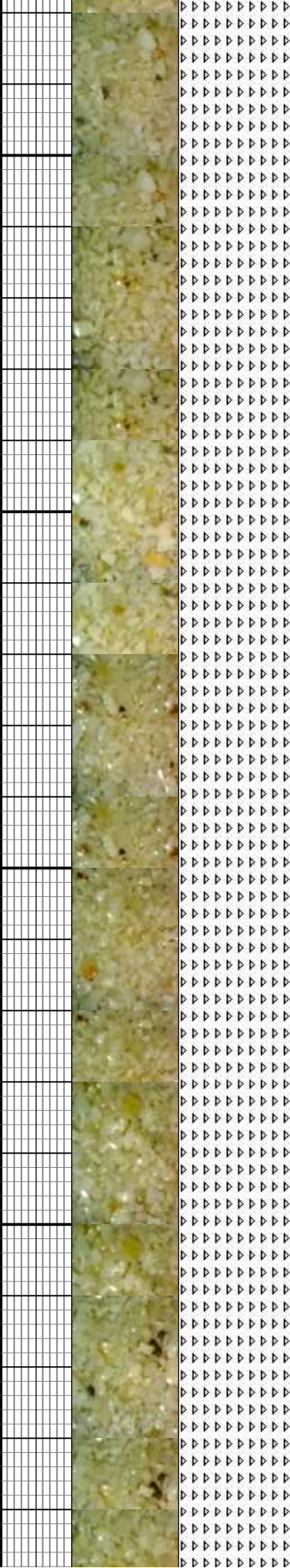
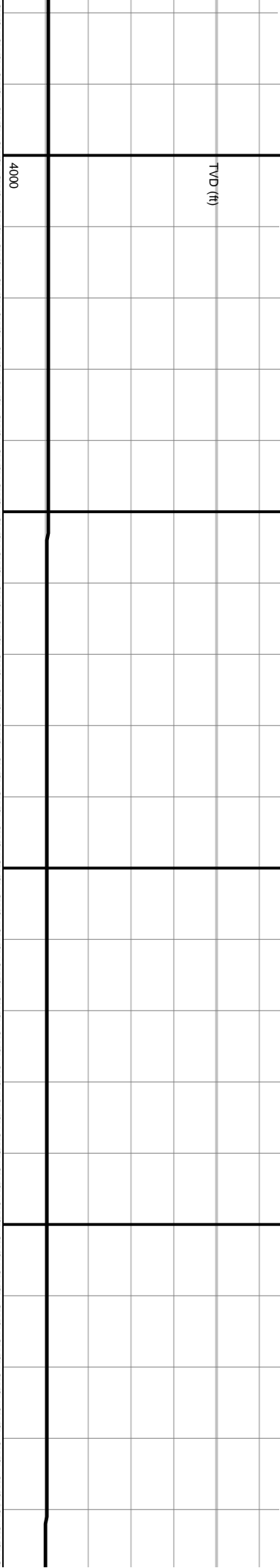
Conn
8138'

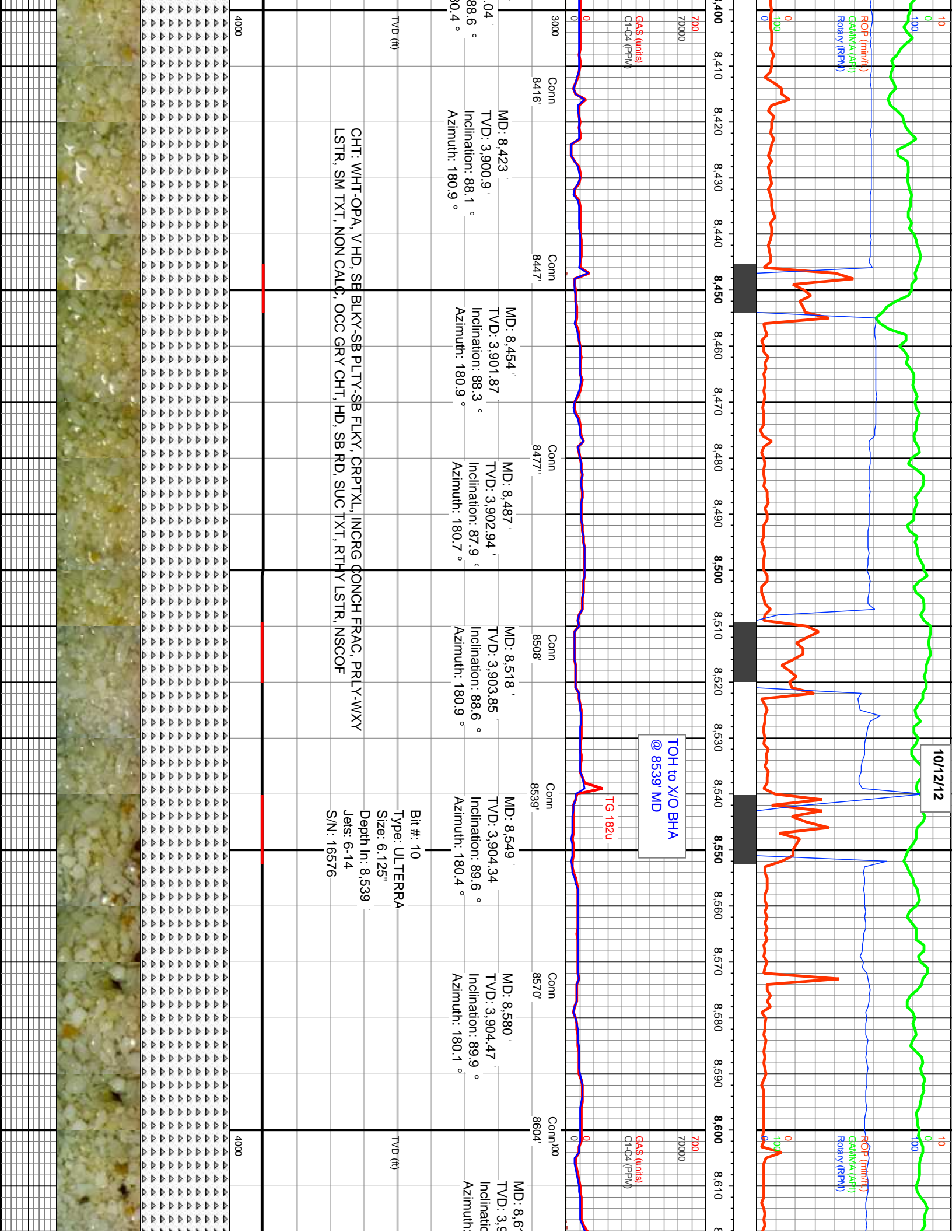
Conn
8168'

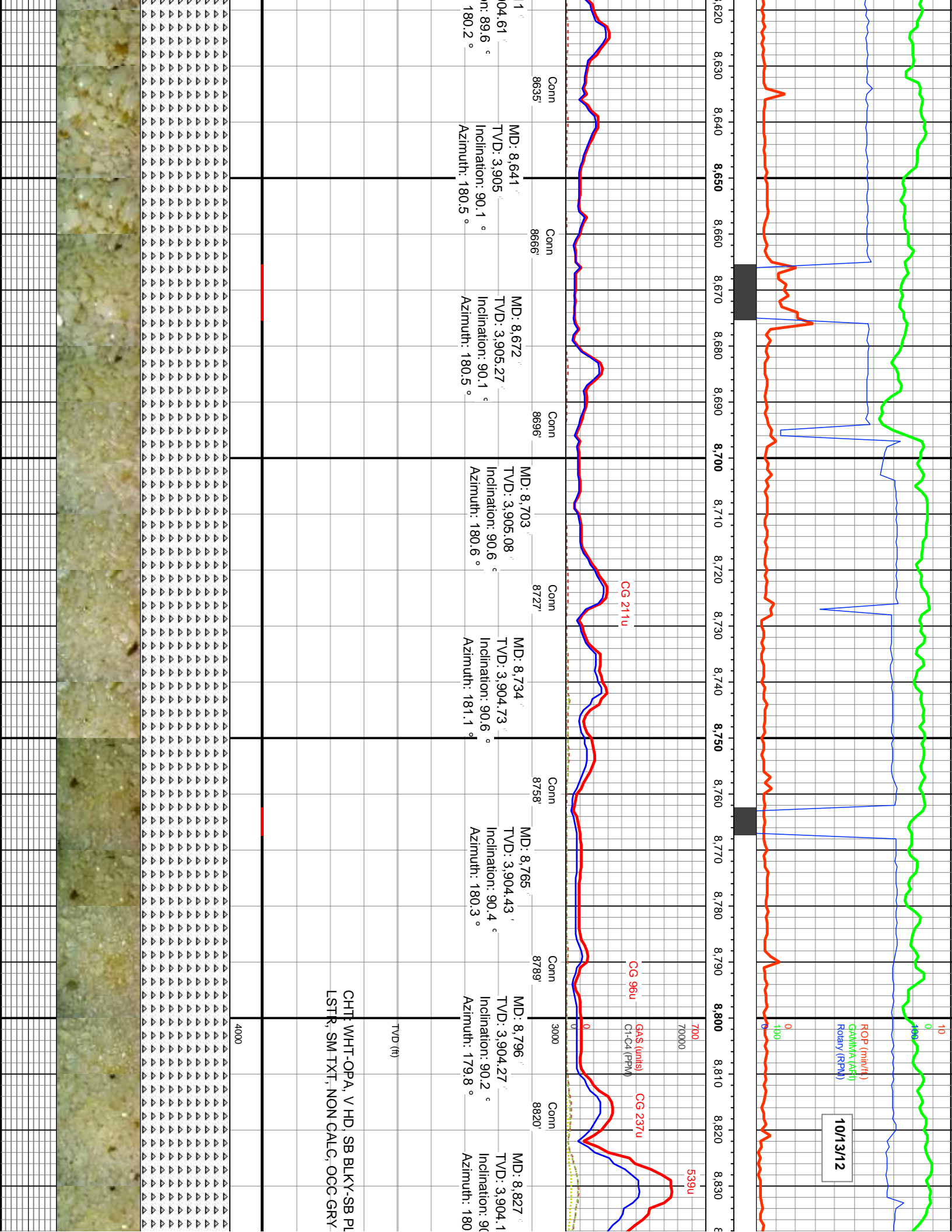


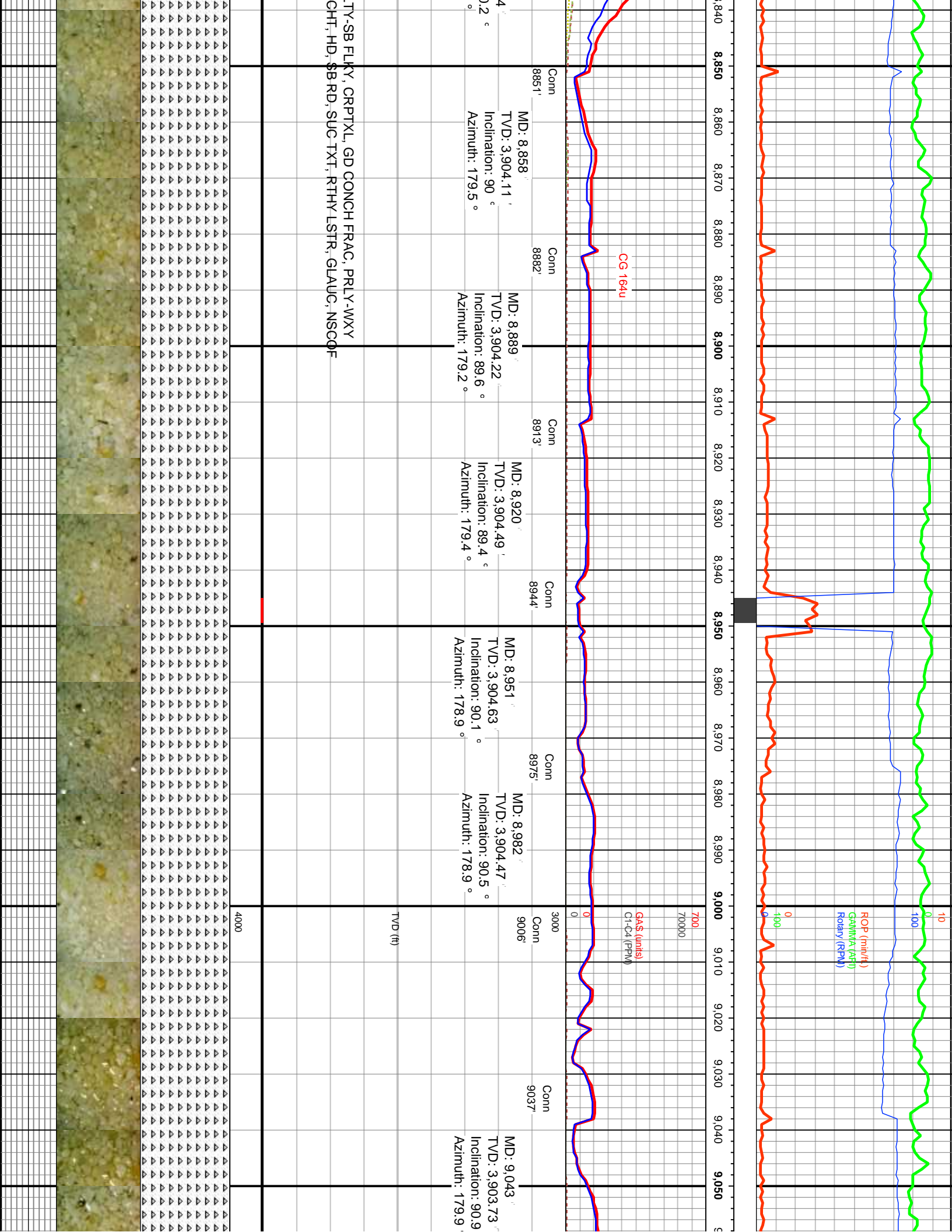


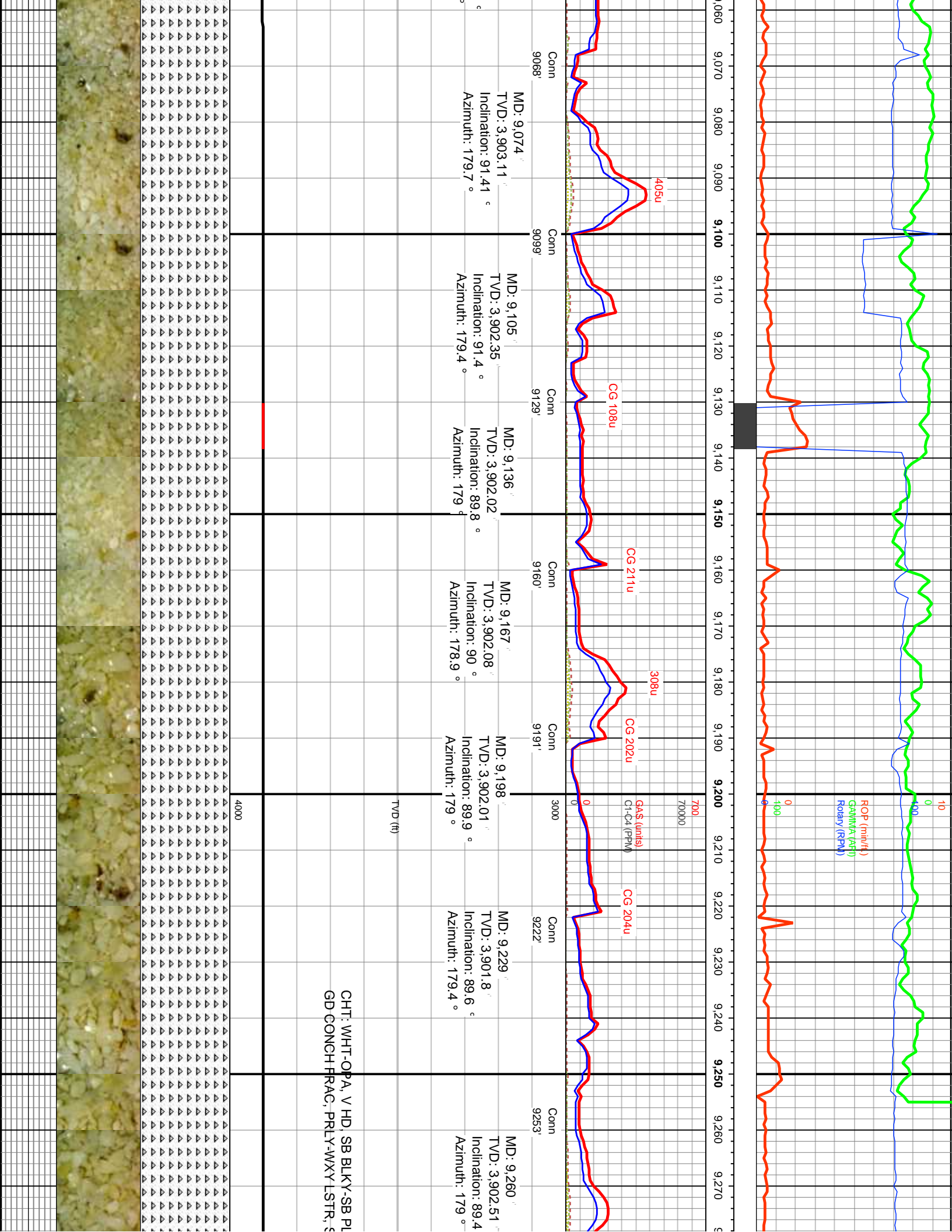
Conn	MD (ft)	TVD (ft)	Inclination (°)	Azimuth (°)
8199'	8,207	3,895.52	88.9	181
8230'	8,238	3,896.25	88.4	181.5
8261'	8,269	3,897.11	88.4	181.6
8292'	8,300	3,897.95	88.5	181.5
8323'	8,331	3,898.74	88.6	181.7
8354'	8,362	3,899.39	89	181
8385'	8,393	3,900		











CHT: WHT-OPA, V HD, SB BLKY-SB PL
 GD CONCH FRAC, PRLY-WXY LSTR, 6



Survey Sheet

Company:	Dorado E&P	Job Number:	OK12147
Well Name:	Toews 25-9-4 1H	Mag Declination:	4.64E
Location:	Noble County	Directional Driller:	Doug Randall/Billy Erwin
Rig Name:	Duke 20	MWD Engineer 1:	Adam Pareja
Leg:	Main	MWD Engineer 2:	Tyler Hill

Calculation Method:	Minimum Curvature
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Proposed Azimuth:	177.81
Depth Reference:	0
Tie Into Provided By:	0

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (ft/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
Tie In	0	0.0													
1	500	0.6	72.4	500	499.99	-0.70	0.79	N	2.50	E	2.62	72.38	0.12	0.12	14.48
2	1000	0.2	158.0	500	999.98	-0.57	0.78	N	5.32	E	5.37	81.70	0.12	-0.08	17.12
3	1500	0.8	209.4	500	1499.96	3.22	3.08	S	3.93	E	4.99	128.03	0.14	0.12	10.27
4	2000	0.6	213.6	500	1999.92	8.32	8.30	S	0.77	E	8.33	174.69	0.04	-0.04	0.85
5	2500	0.2	217.2	500	2499.91	11.12	11.17	S	1.20	W	11.24	186.15	0.08	-0.08	0.71
6	2925	0.2	287.6	425	2924.91	11.44	11.54	S	2.36	W	11.78	191.56	0.05	0.00	16.57
7	3161	0.3	87.2	236	3160.91	11.30	11.39	S	2.14	W	11.58	190.62	0.21	0.04	-84.92
8	3192	0.9	141.8	31	3191.90	11.49	11.57	S	1.90	W	11.73	189.34	2.47	1.94	176.13
9	3254	6.9	155.7	62	3253.73	15.34	15.35	S	0.07	W	15.35	180.25	9.73	9.68	22.42
10	3285	9.3	156.1	31	3284.42	19.39	19.34	S	1.71	E	19.42	174.94	7.74	7.74	1.29
11	3316	12.3	153.2	31	3314.87	24.72	24.58	S	4.22	E	24.94	170.26	9.83	9.68	-9.35
12	3347	14.9	153.3	31	3345.00	31.35	31.09	S	7.50	E	31.98	166.44	8.39	8.39	0.32
13	3378	18.5	155.4	31	3374.69	39.53	39.12	S	11.34	E	40.73	163.84	11.77	11.61	6.77
14	3409	21.3	156.2	31	3403.83	49.31	48.75	S	15.66	E	51.20	162.19	9.07	9.03	2.58
15	3440	23.9	156.6	31	3432.45	60.40	59.67	S	20.42	E	63.06	161.10	8.40	8.39	1.29
16	3471	27.0	157.0	31	3460.44	72.84	71.91	S	25.67	E	76.35	160.36	10.02	10.00	1.29
17	3502	29.4	156.3	31	3487.76	86.50	85.36	S	31.48	E	90.98	159.76	7.82	7.74	-2.26
18	3533	31.2	156.7	31	3514.52	101.07	99.70	S	37.71	E	106.59	159.28	5.84	5.81	1.29
19	3564	33.6	156.7	31	3540.69	116.56	114.95	S	44.28	E	123.19	158.93	7.74	7.74	0.00
20	3594	36.9	156.9	30	3565.19	132.72	130.87	S	51.10	E	140.49	158.67	11.01	11.00	0.67
21	3625	39.4	156.3	31	3589.56	150.57	148.44	S	58.71	E	159.63	158.42	8.15	8.06	-1.94
22	3656	41.4	157.5	31	3613.17	169.34	166.92	S	66.59	E	179.71	158.25	6.92	6.45	3.87
23	3687	44.4	157.8	31	3635.88	189.15	186.43	S	74.61	E	200.81	158.19	9.70	9.68	0.97
24	3718	47.4	157.9	31	3657.45	210.07	207.05	S	83.00	E	223.07	158.16	9.68	9.68	0.32
25	3749	49.6	157.5	31	3677.99	231.87	228.53	S	91.81	E	246.28	158.11	7.16	7.10	-1.29
26	3780	52.5	157.4	31	3697.47	254.47	250.79	S	101.06	E	270.39	158.05	9.36	9.35	-0.32
27	3811	56.9	157.9	31	3715.38	278.22	274.19	S	110.67	E	295.68	158.02	14.25	14.19	1.61
28	3842	60.3	158.2	31	3731.53	303.12	298.73	S	120.56	E	322.14	158.02	11.00	10.97	0.97
29	3873	60.9	158.6	31	3746.75	328.59	323.84	S	130.50	E	349.14	158.05	2.24	1.94	1.29
30	3904	61.6	157.9	31	3761.66	354.20	349.08	S	140.57	E	376.32	158.07	3.00	2.26	-2.26

Company:	Dorado E&P	Job Number:	OK12147
Well Name:	Toews 25-9-4 1H	Mag Declination:	4.64E
Location:	Noble County	Directional Driller:	Doug Randall/Billy Erwin
Rig Name:	Duke 20	MWD Engineer 1:	Adam Pareja
Leg:	Main	MWD Engineer 2:	Tyler Hill

Calculation Method:	Minimum Curvature
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Proposed Azimuth:	177.81
Depth Reference:	0
Tie Into Provided By:	0

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates			Closure		Dogleg Severity (ft/100')	Build Rate (d/100')	Walk Rate (d/100')	
							N/S (ft)	E/W (ft)		Distance (ft)	Direction Azimuth				
31	3935	62.5	158.1	31	3776.19	379.96	374.47	S	150.83	E	403.71	158.06	2.96	2.90	0.65
32	3966	63.6	158.5	31	3790.24	406.01	400.15	S	161.05	E	431.34	158.08	3.73	3.55	1.29
33	3997	66.5	160.0	31	3803.32	432.65	426.43	S	171.00	E	459.44	158.15	10.33	9.35	4.84
34	4028	68.6	161.2	31	3815.15	460.02	453.45	S	180.51	E	488.06	158.29	7.66	6.77	3.87
35	4059	70.5	163.4	31	3825.99	488.00	481.12	S	189.34	E	517.04	158.52	9.04	6.13	7.10
36	4090	72.8	165.9	31	3835.75	516.65	509.49	S	197.12	E	546.29	158.85	10.66	7.42	8.06
37	4121	74.1	167.1	31	3844.58	545.79	538.38	S	204.06	E	575.76	159.24	5.60	4.19	3.87
38	4152	75.5	168.4	31	3852.70	575.24	567.62	S	210.41	E	605.36	159.66	6.06	4.52	4.19
39	4182	76.2	169.3	30	3860.04	603.98	596.16	S	216.03	E	634.09	160.08	3.73	2.33	3.00
40	4213	77.1	169.9	31	3867.20	633.83	625.82	S	221.48	E	663.86	160.51	3.46	2.90	1.94
41	4244	79.2	171.9	31	3873.56	663.95	655.78	S	226.27	E	693.72	160.96	9.26	6.77	6.45
42	4275	81.0	173.5	31	3878.89	694.36	686.07	S	230.15	E	723.64	161.46	7.72	5.81	5.16
43	4306	81.7	174.2	31	3883.55	724.93	716.54	S	233.43	E	753.60	161.96	3.18	2.26	2.26
44	4337	83.7	175.6	31	3887.49	755.64	747.16	S	236.17	E	783.60	162.46	7.85	6.45	4.52
45	4368	85.3	176.9	31	3890.46	786.49	777.95	S	238.18	E	813.60	162.98	6.64	5.16	4.19
46	4399	87.3	179.2	31	3892.47	817.42	808.87	S	239.23	E	843.50	163.52	9.82	6.45	7.42
47	4418	88.8	180.6	19	3893.11	836.39	827.85	S	239.27	E	861.74	163.88	10.80	7.89	7.37
48	4493	90.2	181.5	75	3893.77	911.27	902.84	S	237.89	E	933.65	165.24	2.22	1.87	1.20
49	4524	90.2	182.6	31	3893.66	942.18	933.81	S	236.78	E	963.37	165.77	3.55	0.00	3.55
50	4555	90.4	182.7	31	3893.50	973.07	964.78	S	235.35	E	993.07	166.29	0.72	0.65	0.32
51	4586	90.3	182.6	31	3893.31	1003.96	995.75	S	233.92	E	1022.85	166.78	0.46	-0.32	-0.32
52	4618	90.2	182.4	32	3893.17	1035.85	1027.72	S	232.52	E	1053.69	167.25	0.70	-0.31	-0.62
53	4649	90.1	182.3	31	3893.09	1066.75	1058.69	S	231.25	E	1083.65	167.68	0.46	-0.32	-0.32
54	4680	90.1	182.3	31	3893.03	1097.66	1089.67	S	230.01	E	1113.68	168.08	0.00	0.00	0.00
55	4711	90.4	182.3	31	3892.90	1128.56	1120.64	S	228.76	E	1143.75	168.46	0.97	0.97	0.00
56	4742	90.8	182.6	31	3892.57	1159.46	1151.61	S	227.44	E	1173.85	168.83	1.61	1.29	0.97
57	4773	90.0	182.3	31	3892.35	1190.36	1182.58	S	226.11	E	1204.00	169.18	2.76	-2.58	-0.97
58	4804	89.8	181.9	31	3892.41	1221.27	1213.56	S	224.98	E	1234.24	169.50	1.44	-0.65	-1.29
59	4835	89.7	181.9	31	3892.54	1252.19	1244.54	S	223.95	E	1264.53	169.80	0.32	-0.32	0.00
60	4866	89.6	182.3	31	3892.73	1283.10	1275.52	S	222.81	E	1294.84	170.09	1.33	-0.32	1.29
61	4896	89.6	182.7	30	3892.94	1313.00	1305.49	S	221.50	E	1324.15	170.37	1.33	0.00	1.33
62	4927	89.6	182.4	31	3893.16	1343.90	1336.46	S	220.13	E	1354.47	170.65	0.97	0.00	-0.97
63	4959	89.4	182.9	32	3893.44	1375.78	1368.42	S	218.65	E	1385.78	170.92	1.68	-0.62	1.56
64	4990	89.6	182.5	31	3893.71	1406.67	1399.39	S	217.19	E	1416.14	171.18	1.44	0.65	-1.29
65	5020	89.1	182.1	30	3894.05	1436.57	1429.36	S	215.98	E	1445.59	171.41	2.13	-1.67	-1.33
66	5051	88.9	181.9	31	3894.59	1467.48	1460.34	S	214.90	E	1476.07	171.63	0.91	-0.65	-0.65
67	5082	88.5	182.0	31	3895.29	1498.40	1491.31	S	213.85	E	1506.57	171.84	1.33	-1.29	0.32
68	5113	89.1	181.8	31	3895.94	1529.31	1522.29	S	212.82	E	1537.09	172.04	2.04	1.94	-0.65
69	5144	90.6	181.6	31	3896.02	1560.24	1553.27	S	211.90	E	1567.66	172.23	4.88	4.84	-0.65

Company:	Dorado E&P	Job Number:	OK12147
Well Name:	Toews 25-9-4 1H	Mag Declination:	4.64E
Location:	Noble County	Directional Driller:	Doug Randall/Billy Erwin
Rig Name:	Duke 20	MWD Engineer 1:	Adam Pareja
Leg:	Main	MWD Engineer 2:	Tyler Hill

Calculation Method:	Minimum Curvature
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Proposed Azimuth:	177.81
Depth Reference:	0
Tie Into Provided By:	0

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates			Closure		Dogleg Severity (ft/100')	Build Rate (d/100')	Walk Rate (d/100')	
							N/S (ft)	E/W (ft)		Distance (ft)	Direction Azimuth				
70	5175	91.1	181.4	31	3895.56	1591.17	1584.26	S	211.09	E	1598.26	172.41	1.74	1.61	-0.65
71	5206	91.1	181.0	31	3894.97	1622.11	1615.25	S	210.44	E	1628.90	172.58	1.29	0.00	-1.29
72	5237	91.2	180.8	31	3894.35	1653.06	1646.24	S	209.95	E	1659.57	172.73	0.72	0.32	-0.65
73	5268	90.9	180.5	31	3893.78	1684.01	1677.23	S	209.60	E	1690.28	172.88	1.37	-0.97	-0.97
74	5299	90.7	180.0	31	3893.35	1714.98	1708.23	S	209.46	E	1721.02	173.01	1.74	-0.65	-1.61
75	5330	90.4	179.8	31	3893.05	1745.96	1739.22	S	209.52	E	1751.80	173.13	1.16	-0.97	-0.65
76	5361	90.5	179.8	31	3892.81	1776.94	1770.22	S	209.63	E	1782.59	173.25	0.32	0.32	0.00
77	5392	90.5	179.6	31	3892.53	1807.92	1801.22	S	209.79	E	1813.40	173.36	0.65	0.00	-0.65
78	5423	90.7	179.8	31	3892.21	1838.90	1832.22	S	209.95	E	1844.21	173.46	0.91	0.65	0.65
79	5454	91.2	179.5	31	3891.70	1869.88	1863.22	S	210.14	E	1875.03	173.57	1.88	1.61	-0.97
80	5485	90.5	180.1	31	3891.24	1900.86	1894.21	S	210.25	E	1905.84	173.67	2.97	-2.26	1.94
81	5515	88.9	179.6	30	3891.39	1930.84	1924.21	S	210.33	E	1935.67	173.76	5.59	-5.33	-1.67
82	5546	88.5	179.5	31	3892.10	1961.82	1955.20	S	210.57	E	1966.51	173.85	1.33	-1.29	-0.32
83	5577	88.4	180.2	31	3892.94	1992.79	1986.19	S	210.65	E	1997.33	173.95	2.28	-0.32	2.26
84	5609	89.3	179.7	32	3893.58	2024.76	2018.18	S	210.68	E	2029.15	174.04	3.22	2.81	-1.56
85	5639	89.3	180.0	30	3893.94	2054.74	2048.18	S	210.76	E	2058.99	174.12	1.00	0.00	1.00
86	5670	89.6	179.7	31	3894.24	2085.72	2079.18	S	210.84	E	2089.84	174.21	1.37	0.97	-0.97
87	5701	89.4	179.7	31	3894.51	2116.70	2110.18	S	211.00	E	2120.70	174.29	0.65	-0.65	0.00
88	5732	89.0	179.6	31	3894.94	2147.68	2141.17	S	211.19	E	2151.56	174.37	1.33	-1.29	-0.32
89	5763	89.5	179.1	31	3895.35	2178.67	2172.17	S	211.54	E	2182.44	174.44	2.28	1.61	-1.61
90	5794	89.6	179.2	31	3895.59	2209.66	2203.16	S	212.00	E	2213.34	174.50	0.46	0.32	0.32
91	5825	89.7	179.0	31	3895.78	2240.65	2234.16	S	212.49	E	2244.24	174.57	0.72	0.32	-0.65
92	5856	89.4	178.9	31	3896.03	2271.64	2265.15	S	213.06	E	2275.15	174.63	1.02	-0.97	-0.32
93	5887	89.3	179.3	31	3896.38	2302.63	2296.15	S	213.54	E	2306.06	174.69	1.33	-0.32	1.29
94	5918	90.6	178.9	31	3896.41	2333.62	2327.14	S	214.03	E	2336.96	174.75	4.39	4.19	-1.29
95	5949	90.8	178.8	31	3896.03	2364.61	2358.13	S	214.65	E	2367.88	174.80	0.72	0.65	-0.32
96	5980	90.7	178.8	31	3895.62	2395.61	2389.12	S	215.30	E	2398.81	174.85	0.32	-0.32	0.00
97	6011	90.8	179.0	31	3895.22	2426.60	2420.12	S	215.90	E	2429.73	174.90	0.72	0.32	0.65
98	6042	90.9	178.7	31	3894.76	2457.59	2451.11	S	216.52	E	2460.65	174.95	1.02	0.32	-0.97
99	6073	91.0	178.7	31	3894.24	2488.58	2482.09	S	217.22	E	2491.58	175.00	0.32	0.32	0.00
100	6104	91.5	178.9	31	3893.57	2519.57	2513.08	S	217.87	E	2522.51	175.05	1.74	1.61	0.65
101	6135	90.5	179.8	31	3893.02	2550.55	2544.07	S	218.22	E	2553.41	175.10	4.34	-3.23	2.90
102	6165	90.3	179.8	30	3892.81	2580.53	2574.07	S	218.33	E	2583.31	175.15	0.67	-0.67	0.00
103	6196	89.8	179.2	31	3892.79	2611.52	2605.07	S	218.60	E	2614.23	175.20	2.52	-1.61	-1.94
104	6227	90.0	179.6	31	3892.84	2642.51	2636.07	S	218.92	E	2645.14	175.25	1.44	0.65	1.29
105	6258	90.2	179.2	31	3892.79	2673.50	2667.07	S	219.25	E	2676.06	175.30	1.44	0.65	-1.29
106	6289	90.1	178.8	31	3892.71	2704.49	2698.06	S	219.79	E	2707.00	175.34	1.33	-0.32	-1.29
107	6320	90.3	179.0	31	3892.60	2735.48	2729.06	S	220.38	E	2737.94	175.38	0.91	0.65	0.65
108	6351	90.6	179.1	31	3892.35	2766.48	2760.05	S	220.90	E	2768.88	175.42	1.02	0.97	0.32

Company:	Dorado E&P	Job Number:	OK12147
Well Name:	Toews 25-9-4 1H	Mag Declination:	4.64E
Location:	Noble County	Directional Driller:	Doug Randall/Billy Erwin
Rig Name:	Duke 20	MWD Engineer 1:	Adam Pareja
Leg:	Main	MWD Engineer 2:	Tyler Hill

Calculation Method:	Minimum Curvature
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Proposed Azimuth:	177.81
Depth Reference:	0
Tie Into Provided By:	0

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates			Closure		Dogleg Severity (ft/100')	Build Rate (d/100')	Walk Rate (d/100')	
							N/S (ft)	E/W (ft)		Distance (ft)	Direction Azimuth				
109	6382	89.9	178.6	31	3892.22	2797.47	2791.04	S	221.52	E	2799.82	175.46	2.77	-2.26	-1.61
110	6413	89.8	178.3	31	3892.30	2828.47	2822.03	S	222.36	E	2830.78	175.49	1.02	-0.32	-0.97
111	6444	88.8	178.8	31	3892.68	2859.46	2853.02	S	223.14	E	2861.73	175.53	3.61	-3.23	1.61
112	6475	88.4	178.1	31	3893.44	2890.45	2884.00	S	223.98	E	2892.68	175.56	2.60	-1.29	-2.26
113	6506	88.8	178.5	31	3894.19	2921.44	2914.98	S	224.90	E	2923.64	175.59	1.82	1.29	1.29
114	6537	88.7	178.5	31	3894.87	2952.43	2945.96	S	225.71	E	2954.59	175.62	0.32	-0.32	0.00
115	6568	88.8	178.9	31	3895.55	2983.42	2976.94	S	226.42	E	2985.54	175.65	1.33	0.32	1.29
116	6599	89.3	178.3	31	3896.06	3014.41	3007.93	S	227.17	E	3016.49	175.68	2.52	1.61	-1.94
117	6630	89.2	178.3	31	3896.47	3045.41	3038.91	S	228.09	E	3047.46	175.71	0.32	-0.32	0.00
118	6661	89.1	177.3	31	3896.93	3076.40	3069.88	S	229.28	E	3078.44	175.73	3.24	-0.32	-3.23
119	6692	90.0	177.0	31	3897.17	3107.40	3100.85	S	230.82	E	3109.42	175.74	3.06	2.90	-0.97
120	6723	90.2	176.9	31	3897.12	3138.40	3131.80	S	232.47	E	3140.42	175.75	0.72	0.65	-0.32
121	6754	90.6	177.3	31	3896.90	3169.39	3162.76	S	234.04	E	3171.41	175.77	1.82	1.29	1.29
122	6785	90.5	176.8	31	3896.60	3200.39	3193.72	S	235.64	E	3202.40	175.78	1.64	-0.32	-1.61
123	6816	90.6	176.9	31	3896.30	3231.38	3224.67	S	237.34	E	3233.39	175.79	0.46	0.32	0.32
124	6847	90.5	176.6	31	3896.01	3262.38	3255.62	S	239.10	E	3264.39	175.80	1.02	-0.32	-0.97
125	6878	91.4	176.1	31	3895.49	3293.36	3286.55	S	241.07	E	3295.38	175.80	3.32	2.90	-1.61
126	6909	90.9	176.8	31	3894.87	3324.35	3317.48	S	242.99	E	3326.37	175.81	2.77	-1.61	2.26
127	6940	91.1	176.3	31	3894.33	3355.33	3348.42	S	244.85	E	3357.36	175.82	1.74	0.65	-1.61
128	6971	90.7	176.3	31	3893.84	3386.32	3379.36	S	246.85	E	3388.36	175.82	1.29	-1.29	0.00
129	7002	89.5	177.2	31	3893.79	3417.31	3410.30	S	248.61	E	3419.35	175.83	4.84	-3.87	2.90
130	7033	89.5	177.6	31	3894.06	3448.31	3441.27	S	250.02	E	3450.34	175.84	1.29	0.00	1.29
131	7064	89.5	177.7	31	3894.33	3479.31	3472.24	S	251.29	E	3481.33	175.86	0.32	0.00	0.32
132	7095	89.7	176.9	31	3894.55	3510.31	3503.21	S	252.75	E	3512.31	175.87	2.66	0.65	-2.58
133	7125	90.1	178.1	30	3894.60	3540.31	3533.18	S	254.06	E	3542.30	175.89	4.22	1.33	4.00
134	7156	90.0	178.8	31	3894.57	3571.31	3564.17	S	254.90	E	3573.27	175.91	2.28	-0.32	2.26
135	7187	89.1	179.7	31	3894.81	3602.29	3595.16	S	255.30	E	3604.22	175.94	4.11	-2.90	2.90
136	7218	89.1	180.8	31	3895.30	3633.26	3626.16	S	255.17	E	3635.13	175.97	3.55	0.00	3.55
137	7249	89.5	181.0	31	3895.68	3664.21	3657.15	S	254.68	E	3666.01	176.02	1.44	1.29	0.65
138	7280	89.4	181.3	31	3895.98	3695.16	3688.15	S	254.06	E	3696.89	176.06	1.02	-0.32	0.97
139	7311	89.7	180.7	31	3896.22	3726.11	3719.14	S	253.52	E	3727.77	176.10	2.16	0.97	-1.94
140	7342	89.7	180.2	31	3896.38	3757.08	3750.14	S	253.27	E	3758.68	176.14	1.61	0.00	-1.61
141	7373	90.0	180.0	31	3896.46	3788.05	3781.14	S	253.22	E	3789.61	176.17	1.16	0.97	-0.65
142	7404	90.3	179.6	31	3896.38	3819.03	3812.14	S	253.33	E	3820.55	176.20	1.61	0.97	-1.29
143	7435	89.4	180.7	31	3896.46	3850.01	3843.14	S	253.25	E	3851.47	176.23	4.58	-2.90	3.55
144	7465	89.0	180.1	30	3896.88	3879.97	3873.13	S	253.04	E	3881.39	176.26	2.40	-1.33	-2.00
145	7496	88.6	179.9	31	3897.53	3910.94	3904.13	S	253.04	E	3912.32	176.29	1.44	-1.29	-0.65
146	7527	89.0	179.9	31	3898.18	3941.92	3935.12	S	253.09	E	3943.25	176.32	1.29	1.29	0.00
147	7557	90.0	180.3	30	3898.44	3971.89	3965.12	S	253.04	E	3973.18	176.35	3.59	3.33	1.33

Company:	Dorado E&P	Job Number:	OK12147
Well Name:	Toews 25-9-4 1H	Mag Declination:	4.64E
Location:	Noble County	Directional Driller:	Doug Randall/Billy Erwin
Rig Name:	Duke 20	MWD Engineer 1:	Adam Pareja
Leg:	Main	MWD Engineer 2:	Tyler Hill

Calculation Method:	Minimum Curvature
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Proposed Azimuth:	177.81
Depth Reference:	0
Tie Into Provided By:	0

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates			Closure		Dogleg Severity (ft/100')	Build Rate (d/100')	Walk Rate (d/100')	
							N/S (ft)	E/W (ft)		Distance (ft)	Direction Azimuth				
148	7588	90.2	180.6	31	3898.39	4002.86	3996.12	S	252.80	E	4004.10	176.38	1.16	0.65	0.97
149	7619	90.1	180.6	31	3898.31	4033.82	4027.11	S	252.47	E	4035.02	176.41	0.32	-0.32	0.00
150	7650	89.7	180.9	31	3898.36	4064.78	4058.11	S	252.07	E	4065.93	176.45	1.61	-1.29	0.97
151	7682	89.0	181.4	32	3898.73	4096.72	4090.10	S	251.42	E	4097.82	176.48	2.69	-2.19	1.56
152	7712	89.1	181.8	30	3899.22	4126.65	4120.09	S	250.59	E	4127.70	176.52	1.37	0.33	1.33
153	7743	89.0	182.2	31	3899.74	4157.57	4151.06	S	249.50	E	4158.56	176.56	1.33	-0.32	1.29
154	7774	89.0	181.5	31	3900.28	4188.48	4182.04	S	248.50	E	4189.42	176.60	2.26	0.00	-2.26
155	7805	89.2	181.9	31	3900.77	4219.41	4213.02	S	247.58	E	4220.29	176.64	1.44	0.65	1.29
156	7836	89.9	182.0	31	3901.01	4250.33	4244.01	S	246.53	E	4251.16	176.68	2.28	2.26	0.32
157	7867	90.3	182.1	31	3900.95	4281.24	4274.99	S	245.42	E	4282.02	176.71	1.33	1.29	0.32
158	7898	90.5	182.5	31	3900.74	4312.15	4305.96	S	244.18	E	4312.88	176.75	1.44	0.65	1.29
159	7929	91.1	181.3	31	3900.31	4343.06	4336.94	S	243.15	E	4343.75	176.79	4.33	1.94	-3.87

Company:	Dorado E&P	Job Number:	OK12147
Well Name:	Toews 25-9-4 1H	Mag Declination:	4.64E
Location:	Noble County	Directional Driller:	Doug Randall/Billy Erwin
Rig Name:	Duke 20	MWD Engineer 1:	Adam Pareja
Leg:	Main	MWD Engineer 2:	Tyler Hill

Calculation Method:	Minimum Curvature
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Proposed Azimuth:	177.81
Depth Reference:	0
Tie Into Provided By:	0

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates			Closure		Dogleg Severity (ft/100')	Build Rate (d/100')	Walk Rate (d/100')	
							N/S (ft)	E/W (ft)		Distance (ft)	Direction Azimuth				
160	7960	91.4	181.5	31	3899.63	4373.99	4367.92	S	242.39	E	4374.64	176.82	1.16	0.97	0.65
161	7991	91.7	181.2	31	3898.79	4404.92	4398.90	S	241.66	E	4405.54	176.86	1.37	0.97	-0.97
162	8022	92.0	181.5	31	3897.79	4435.85	4429.88	S	240.93	E	4436.42	176.89	1.37	0.97	0.97
163	8053	92.1	181.3	31	3896.68	4466.77	4460.85	S	240.17	E	4467.31	176.92	0.72	0.32	-0.65
164	8083	91.0	181.3	30	3895.87	4496.70	4490.83	S	239.49	E	4497.21	176.95	3.67	-3.67	0.00
165	8114	91.1	181.4	31	3895.30	4527.64	4521.82	S	238.76	E	4528.11	176.98	0.46	0.32	0.32
166	8145	90.5	182.1	31	3894.87	4558.56	4552.80	S	237.82	E	4559.00	177.01	2.97	-1.94	2.26
167	8176	89.1	181.8	31	3894.98	4589.48	4583.78	S	236.76	E	4589.89	177.04	4.62	-4.52	-0.97
168	8207	88.9	181.6	31	3895.52	4620.40	4614.76	S	235.84	E	4620.78	177.07	0.91	-0.65	-0.65
169	8238	88.4	181.5	31	3896.25	4651.33	4645.74	S	235.00	E	4651.68	177.10	1.64	-1.61	-0.32
170	8269	88.4	181.6	31	3897.11	4682.25	4676.72	S	234.17	E	4682.58	177.13	0.32	0.00	0.32
171	8300	88.5	181.5	31	3897.95	4713.17	4707.69	S	233.33	E	4713.47	177.16	0.46	0.32	-0.32
172	8331	88.6	181.7	31	3898.74	4744.09	4738.67	S	232.46	E	4744.37	177.19	0.72	0.32	0.65
173	8362	89.0	181.0	31	3899.39	4775.03	4769.66	S	231.73	E	4775.28	177.22	2.60	1.29	-2.26
174	8393	88.6	180.4	31	3900.04	4805.98	4800.65	S	231.35	E	4806.22	177.24	2.33	-1.29	-1.94
175	8423	88.1	180.9	30	3900.90	4835.93	4830.63	S	231.01	E	4836.15	177.26	2.36	-1.67	1.67
176	8454	88.3	180.9	31	3901.87	4866.87	4861.61	S	230.53	E	4867.08	177.29	0.65	0.65	0.00
177	8485	88.0	180.2	31	3902.87	4897.82	4892.60	S	230.23	E	4898.01	177.31	2.46	-0.97	-2.26
178	8518	88.6	180.9	33	3903.85	4930.77	4925.58	S	229.91	E	4930.94	177.33	2.79	1.82	2.12
179	8549	89.6	180.4	31	3904.34	4961.72	4956.57	S	229.56	E	4961.89	177.35	3.61	3.23	-1.61
180	8580	89.9	180.1	31	3904.47	4992.70	4987.57	S	229.43	E	4992.85	177.37	1.37	0.97	-0.97
181	8611	89.6	180.2	31	3904.61	5023.67	5018.57	S	229.34	E	5023.81	177.38	1.02	-0.97	0.32
182	8641	88.9	180.1	30	3905.00	5053.64	5048.57	S	229.27	E	5053.77	177.40	2.36	-2.33	-0.33
183	8672	90.1	180.5	31	3905.27	5084.61	5079.57	S	229.10	E	5084.73	177.42	4.08	3.87	1.29
184	8703	90.6	180.6	31	3905.08	5115.58	5110.56	S	228.81	E	5115.68	177.44	1.64	1.61	0.32
185	8734	90.7	181.1	31	3904.73	5146.53	5141.56	S	228.35	E	5146.63	177.46	1.64	0.32	1.61
186	8765	90.4	180.3	31	3904.43	5177.49	5172.56	S	227.97	E	5177.58	177.48	2.76	-0.97	-2.58
187	8796	90.2	179.8	31	3904.27	5208.46	5203.55	S	227.94	E	5208.54	177.49	1.74	-0.65	-1.61
188	8827	90.2	180.0	31	3904.16	5239.44	5234.55	S	227.99	E	5239.52	177.51	0.65	0.00	0.65
189	8858	90.0	179.5	31	3904.11	5270.43	5265.55	S	228.13	E	5270.49	177.52	1.74	-0.65	-1.61
190	8889	89.6	179.2	31	3904.22	5301.41	5296.55	S	228.48	E	5301.48	177.53	1.61	-1.29	-0.97
191	8920	89.4	179.4	31	3904.49	5332.40	5327.55	S	228.86	E	5332.46	177.54	0.91	-0.65	0.65
192	8952	90.1	178.9	32	3904.63	5364.39	5359.54	S	229.34	E	5364.45	177.55	2.69	2.19	-1.56
193	8982	90.5	178.9	30	3904.47	5394.39	5389.54	S	229.91	E	5394.44	177.56	1.33	1.33	0.00
194	9013	90.7	179.3	31	3904.15	5425.38	5420.53	S	230.40	E	5425.43	177.57	1.44	0.65	1.29
195	9043	90.9	179.9	30	3903.73	5455.36	5450.53	S	230.61	E	5455.40	177.58	2.11	0.67	2.00
196	9074	91.4	179.7	31	3903.11	5486.33	5481.52	S	230.72	E	5486.38	177.59	1.74	1.61	-0.65
197	9105	91.4	179.4	31	3902.35	5517.31	5512.51	S	230.96	E	5517.35	177.60	0.97	0.00	-0.97
198	9136	89.8	179.0	31	3902.02	5548.30	5543.51	S	231.39	E	5548.33	177.61	5.32	-5.16	-1.29

Company:	Dorado E&P	Job Number:	OK12147
Well Name:	Toews 25-9-4 1H	Mag Declination:	4.64E
Location:	Noble County	Directional Driller:	Doug Randall/Billy Erwin
Rig Name:	Duke 20	MWD Engineer 1:	Adam Pareja
Leg:	Main	MWD Engineer 2:	Tyler Hill

Calculation Method:	Minimum Curvature
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Proposed Azimuth:	177.81
Depth Reference:	0
Tie Into Provided By:	0

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates			Closure		Dogleg Severity (ft/100')	Build Rate (d/100')	Walk Rate (d/100')	
							N/S (ft)	E/W (ft)		Distance (ft)	Direction Azimuth				
199	9167	90.0	178.9	31	3902.08	5579.29	5574.50	S	231.96	E	5579.32	177.62	0.72	0.65	-0.32
200	9198	89.9	179.0	31	3902.10	5610.29	5605.50	S	232.53	E	5610.32	177.62	0.46	-0.32	0.32
201	9229	89.6	179.4	31	3902.24	5641.28	5636.49	S	232.96	E	5641.30	177.63	1.61	-0.97	1.29

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



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

January 10, 2013

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

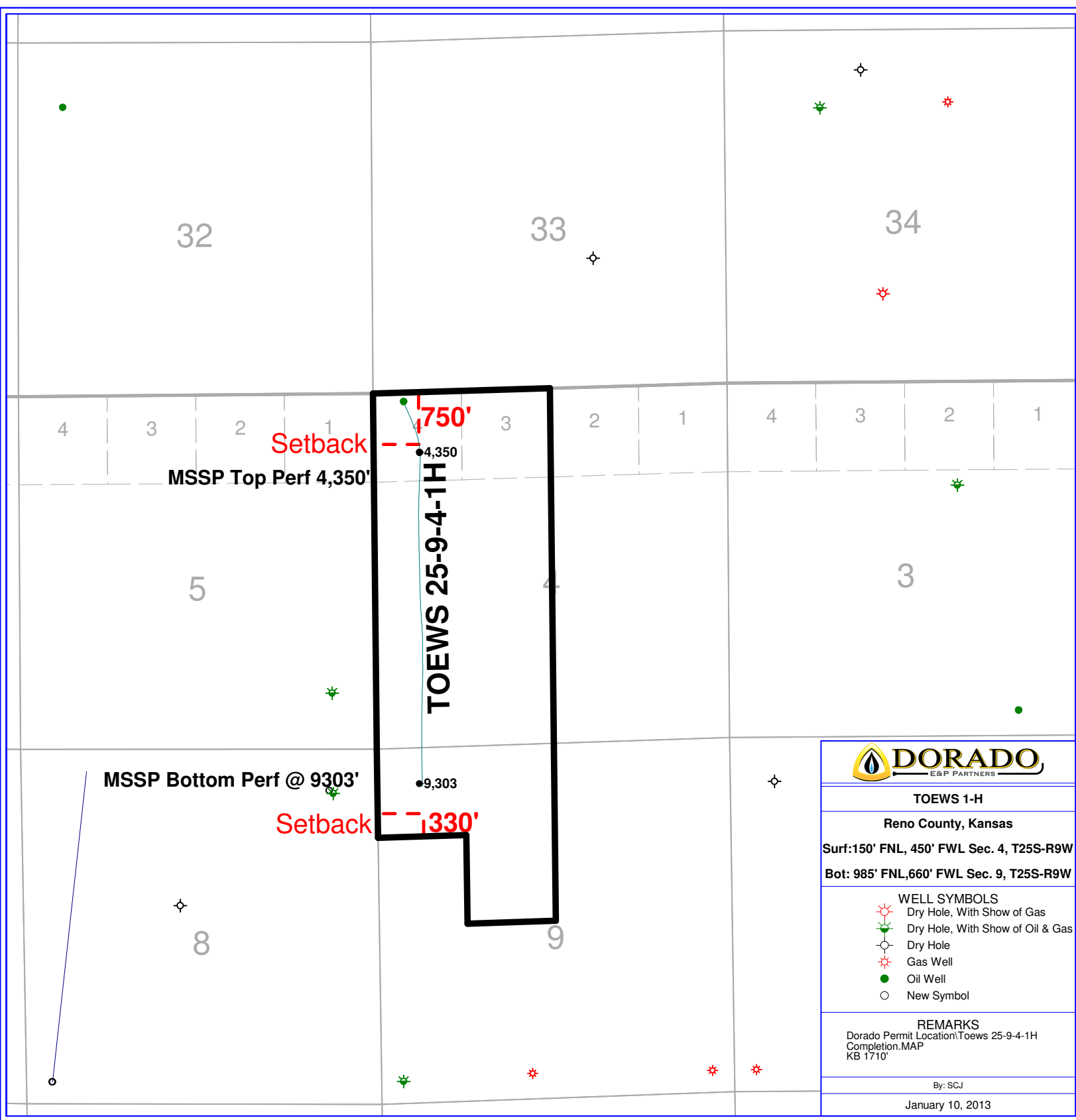
Re: ACO1
API 15-155-21592-00-00
Toews 25-9-4
NW/4 Sec.04-25S-09W
Reno County, Kansas

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



TOEWS 1-H
Reno County, Kansas
Surf: 150' FNL, 450' FWL Sec. 4, T25S-R9W
Bot: 985' FNL, 660' FWL Sec. 9, T25S-R9W

- WELL SYMBOLS**
- Dry Hole, With Show of Gas
 - Dry Hole, With Show of Oil & Gas
 - Dry Hole
 - Gas Well
 - Oil Well
 - New Symbol

REMARKS
 Dorado Permit Location\Toews 25-9-4-1H
 Completion.MAP
 KB 1710'

By: SCJ
 January 10, 2013