

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

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

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	REECE-RIFFEY 1-5H
Doc ID	1372735

Tops

Name	Top	Datum
Howard	3180	-1270
Toronto	3676	-1766
Brown Lime	3836	-1926
Lansing	3856	-1946
BKC	4240	-2330
Mississippian	4318	-2408
Kinderhook	4393	-2483
Viola	4447	-2537
RTD (TVD)	4457	-2547

Customer <i>Shelby Resources</i>		Lease No.		Date <i>8/6/17</i>	
Lease <i>Pratt, R. Hwy</i>		Well # <i>1-511</i>			
Field Order # <i>15241 A</i>	Station <i>Pratt 103</i>	Casing <i>7"</i>	Depth <i>4917</i>	County <i>Pratt</i>	State <i>KS</i>
Type Job <i>7" Production Casing 242</i>			Formation	Legal Description	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth <i>4917</i>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <i>1574</i>	Volume	From	To	Pad	Min		10 Min.
Max Press <i>300</i>	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 <i>Scott</i>			Station Manager <i>Scott</i>			Treater <i>Scott</i>		
Service Units	<i>35461</i>	<i>31481</i>	<i>70070</i>	<i>70999</i>	<i>11010</i>			
Driver Names	<i>Scott</i>	<i>M.H.</i>	<i>-</i>	<i>Colt</i>	<i>-</i>			

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>2:00</i>					<i>On Location Safety Meeting Prep</i>
<i>5:15</i>	<i>150</i>				<i>Break Circulation</i>
<i>6:00</i>	<i>150</i>		<i>8</i>	<i>3.5</i>	<i>Pump 470 spacer</i>
<i>6:08</i>	<i>200</i>		<i>5</i>	<i>5</i>	<i>Pump 470 gallons mud flush</i>
<i>6:11</i>	<i>200</i>		<i>10</i>	<i>5</i>	<i>Pump 470 spacer</i>
<i>6:12</i>	<i>300</i>		<i>5</i>	<i>5</i>	<i>Mix 200 sacks AA2 15.7 ppv</i>
<i>6:23</i>	<i>50</i>		<i>49.1</i>	<i>0</i>	<i>Shut down</i>
<i>6:24</i>					<i>Release Plug</i>
<i>6:25</i>	<i>50</i>			<i>5</i>	<i>Start Displacement</i>
<i>6:52</i>	<i>300</i>		<i>138</i>	<i>5</i>	<i>Pressure Increase</i>
<i>7:02</i>	<i>500</i>		<i>460</i>	<i>35</i>	<i>Reduce Rate</i>
<i>7:05</i>	<i>600</i>		<i>165</i>	<i>35</i>	<i>Plug landed</i>
<i>7:05</i>	<i>1100</i>				<i>Increase Pressure Hold</i>
<i>7:08</i>	<i>0</i>				<i>Release Pressure NO Returns</i>
<i>7:10</i>					<i>Job Complete</i>

Customer Shelby Resources LLC	Lease No.	Date 7-28-17
Lease Rocco-Riffay	Well # 1-5H	
Field Order # 15311	Station Pratt	Casing 13 3/8
		Depth 341.2
Type Job 2-42 @ 13 3/8 surround	Formation KTU 342	Legal Description S-295-12W
County Pratt		State KS

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 13 3/8	Tubing Size	Shots/Ft		Acid 340 SK, common	RATE	PRESS	ISIP	
Depth 341.2	Depth	From	To	Pre Pad 2% cc 20	Max 35 PPS	Collar	5 Min.	
Volume 33.5	Volume	From	To	Pad	Min		10 Min.	
Max Press 300	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection 3 1/2	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 321.20	Packer Depth	From	To	Flush 50.4	Gas Volume		Total Load	

Customer Representative Gottschalk	Station Manager Westerman	Treater MATTAL
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Service Units 83353	27463	19959	19918				
Driver Names MATTAL	McGraw	WEST					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:00					ON LOCATION/SARNEY MEETING
7:10					RUN 13 3/8 CSNG. COLLIS ON 1, 4, 7
8:25					CSNG ON BOTTOM
8:40					HOOK TO CSNG/BREAK CIRC W. R19
8:55	150		3	5	PUMP 3 bbl WATER
8:57	2		72	5	MIX 340 SKS COMMON
9:16				5	START DISPLACEMENT
9:20	200		25	5	CMT UP 25 bbls cmT TO PIT
9:26	200		50.4		PLUS DOWN, SHUT IN WELL
					JOB COMPLETE
					THANK YOU!
					MIKE MATTAL
					MIKE + JOHN



ASIC Energy services, L.P.

TREATMENT REPORT

Owner Melby Resources, LLC	Lease No.	Date 8/18/2017
Lease Reece-Riffley	Well # 1-5H	
Field Order # 13144	Station Pratt, KS	Casing 4 1/2
Type Job 242- 4 1/2 Liner	Depth 3610'	County Pratt
	Formation TD-7983	State KS
		Legal Description 5-29s-12w

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 3610'	Tubing Size 4 1/2 DP	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth 7983	Depth 4373	From	To	Pre Pad	Max			5 Min.
Volume 55	Volume 323	From	To	Pad	Min			10 Min.
Max Press 4500	Max Press 4500	From	To	Frac	Avg			15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth 1934	Packer Depth	From	To	Flush 2% KCL water	Gas Volume			Total Load

Customer Representative: *Sgm Bailey* Station Manager: *Justin Westerman* Treater: *Darin Franklin*

Service Units	92911	84981	19843	37223	37725				
Driver Names	Darin	McGraw	McGraw	Fuller	Fuller				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:30am					On location / setup meeting
					320sk Premium, 0.25% defosmer, 10% S91+, 0.75% friction reducer, 0.1% WCA
					15.6 pps, 1.24 void, 5.43 water
7:00pm	4,500		2	1/4	Pressure Test
	400		12	4	Pump 12 bbls mud Flush
	400		5	5	Pump 5 bbls water
	300		6 1/2	5	mix 20sk SCSuenser
	300		66	5	mix 300sk Premium
					Shut down
	50		5	3	Wash Pump & lines
					Drop Plug
	850		0	5	Displace
	400		77	3	Slow Rate
	4,200		84	3	Bump Plug
					Release - Held
					Ball up out of casing
	700		124	5	Reverse out
					Close Annulus
	1600		1/2	1/4	Pressure Test
9:00pm					Job complete / Darin & crew

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



Scale 1:240 Imperial

Well Name: Reece-Riffey #1-5H
 Surface Location: 330' FSL_2490' FWL, Sec. 5-T29S-R12W
 Bottom Location: Sec. 6-T29S-R12W
 API: 15-151-22463-01-00
 License Number: 31725
 Spud Date: 7/28/2017 Time: 8:30 PM
 Region: Pratt County
 Drilling Completed: 8/15/2017 Time: 2:44 PM
 Surface Coordinates: 319703 & 1954411
 Bottom Hole Coordinates:
 Ground Elevation: 1899.00ft
 K.B. Elevation: 1910.00ft
 Logged Interval: 3280.00ft To: 4917.00ft
 Total Depth: 7983.00ft
 Formation: Viola
 Drilling Fluid Type:

OPERATOR

Company: Shelby Resources, LLC
 Address: 13949 W Colfax Ave, Ste 120
 Lakewood, CO 80401

Contact Geologist: Jeff Zoller / Janine Sturdavant
 Contact Phone Nbr: 620-786-0807 / 303-907-2209
 Well Name: Reece-Riffey #1-5H
 Location: 330' FSL_2490' FWL, Sec. 5-T29S-R12W
 API: 15-151-22463-01-00
 Pool: Field: Wildcat
 State: Kansas Country: USA

LOGGED BY

Company:
 Address:

Phone Nbr: 203-671-6034 / 620-617-4091
 Logged By: Geologist

Name: Jeremy Schwartz / Keith Reavis

CONTRACTOR

Contractor: Sterling Drilling Co
 Rig #: 4
 Rig Type: mud rotary
 Spud Date: 7/28/2017 Time: 8:30 PM
 TD Date: 8/15/2017 Time: 2:44 PM
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 1910.00ft Ground Elevation: 1899.00ft
 K.B. to Ground: 11.00ft

		OIL - TA				OIL - P&A				OIL - P&A							
		HUMMON CORP.				HUMMON CORP.				HUMMON CORP.							
		PRIDE #2				KESSLER #1				RIFFEY #2							
		Reece-Riffey #1-5H				NW-NE-NW 8-T29S-R12W				SW-SW-SW 5-T29S-R12W				W/2-E/2-SE 6-T29S-R12W			
		KB		1910		KB		1906		KB		1902		KB		1900	
		LOG TOPS		SAMPLE TOPS		COMP. CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.	
		DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.
FORMATION																	
WAUBANSEE				2825	-915	2825	-919										
HOWARD				3180	-1270	3179	-1273							3179	-1279		9
TOPEKA				3291	-1381	3291	-1385			3278	-1376		5	3282	-1382		1
HEEBNER				3656	-1746	3658	-1752			3646	-1744		2	3648	-1748		2
TORONTO				2676	-1766	2677	-1771			2660	-1768		8	2664	-1764		2

TORONTO			3070	-1760	3077	-1771			+	3	3080	-1738			-	8	3084	-1704			-	2
DOUGLAS			3688	-1778	3690	-1784			+	6	3676	-1774			-	4	3679	-1779			+	1
BROWN LIME			3836	-1926	3839	-1933			+	7	3844	-1942			+	16	3835	-1935			+	9
LANSING			3856	-1946	3860	-1954			+	8	3856	-1954			+	8	3850	-1950			+	4
BKC (TVD)			4240	-2330	4238	-2332			+	2	4228	-2326			-	4	4228	-2328			-	2
MARMATON (TVD)			4247	-2337	4254	-2348			+	11	4233	-2331			-	6	4240	-2340			+	3
MISSISSIPPIAN (TVD)			4318	-2408	4324	-2418			+	10	4313	-2411			+	3	4321	-2421			+	13
KINDERHOOK (TVD)			4393	-2483	4391	-2485			+	2	4380	-2478			-	5	4384	-2484			+	1
VIOLA (TVD)			4447	-2537	4447	-2541			+	4	4436	-2534			-	3	4434	-2534			-	3
RTD (TVD)			4457	-2547	4700	-2794			+	247	4685	-2783			+	236	4545	-2645			+	98

ROCK TYPES

Cht	Chtcong	Lmst fw<7	shale, gry	shale, red
Cht vari	Dolprim	shale, grn	Carbon Sh	

ACCESSORIES

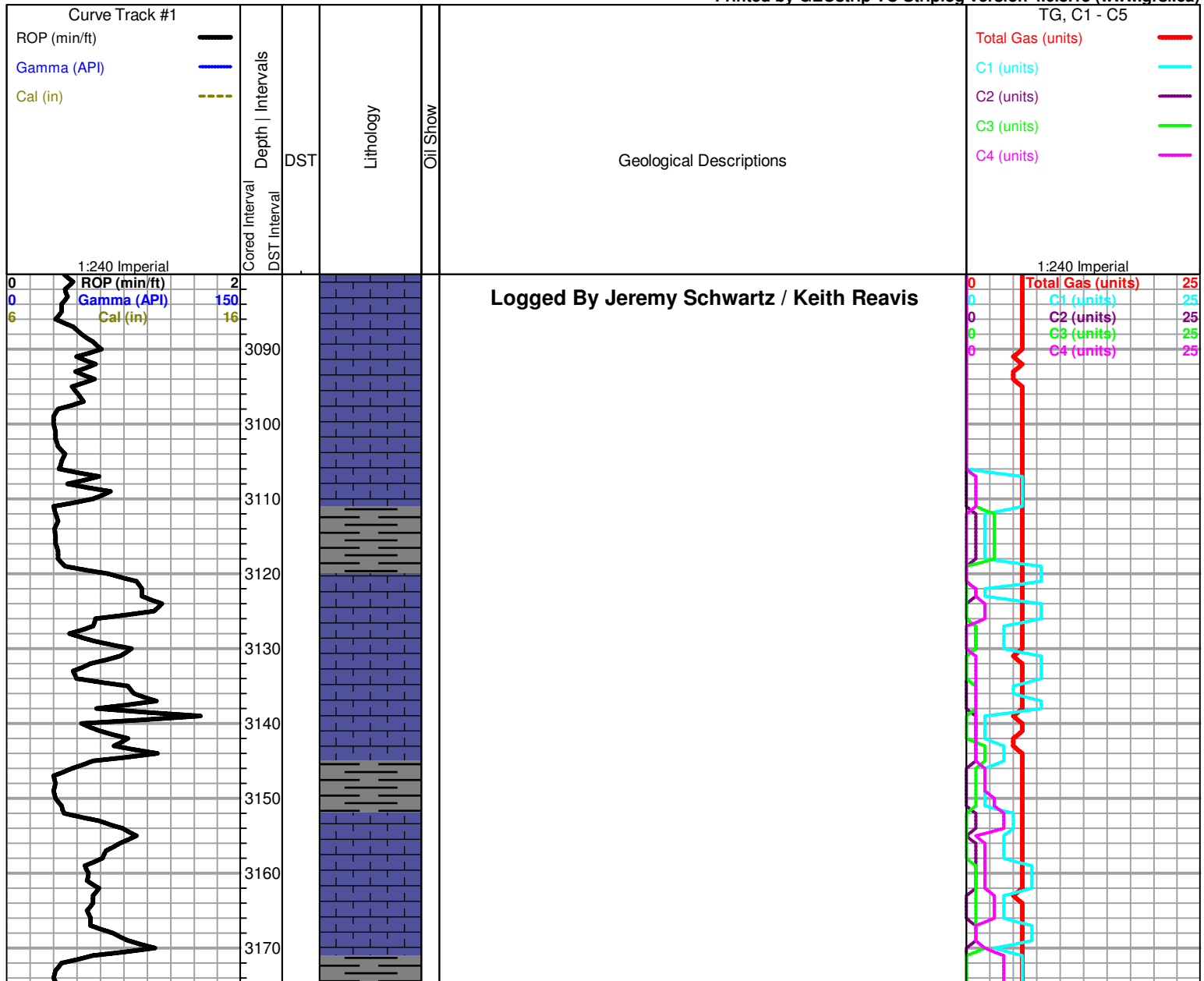
MINERAL	FOSSIL	STRINGER	TEXTURE
△ Chert White	○ Oolite	▨ Dolomite	C Chalky
▲ Chert, dark	○ Oolites	▨ Limestone	
▨ Dolomitic	⊕ Oomoldic	••• Sandstone	
• Sandy		••• Siltstone	
• Silty		— green shale	

OTHER SYMBOLS

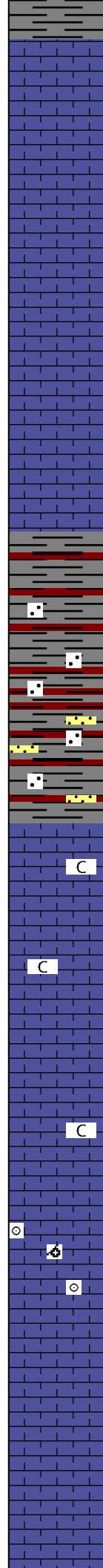
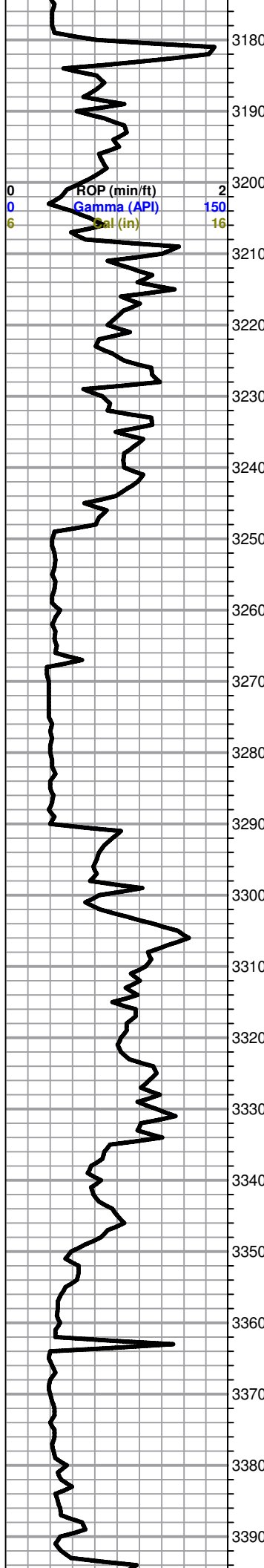
DST

	DST Int
	DST alt

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)



Howard 3180 (-1270)



20' Wet and Dry Samples begin @ 3300'

Geologist Jeremy Schwartz on location @ 0330hrs, 3315', 7/31/17

Shale, gray and red, mostly soft and waxy, some red sandy

Topeka 3291 (-1381)

Shale as above, with some scattered SS clusters, clear to gray, fine grained, sub-rounded to sub-angular, poorly sorted and mostly friable, with some scattered shale inclusions, barren, also with influx LS, cream to gray, micro-xln, mostly lithographic and dense with poor visible porosity, some slightly soft and chalky in part, no show or odor

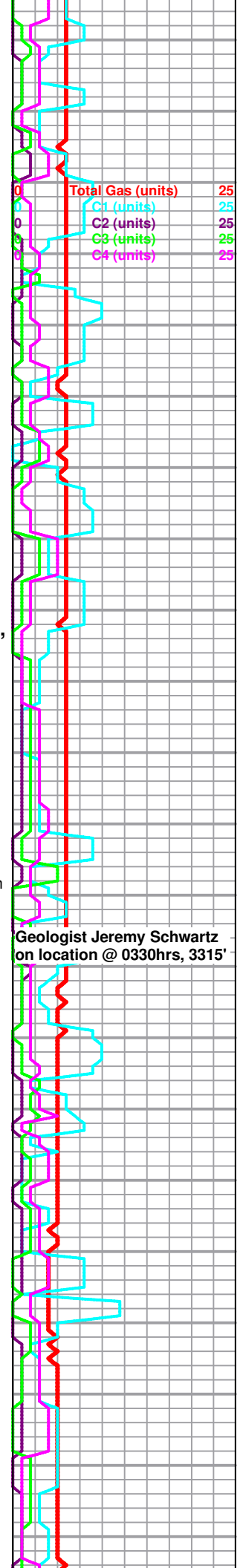
LS, gray to cream, micro-xln, mostly lithographic and dense with poor visible porosity, few chips cream with few very scattered vugs, overall poor visible porosity, some soft and slightly chalky in part, no show or odor

LS as above, no show or odor

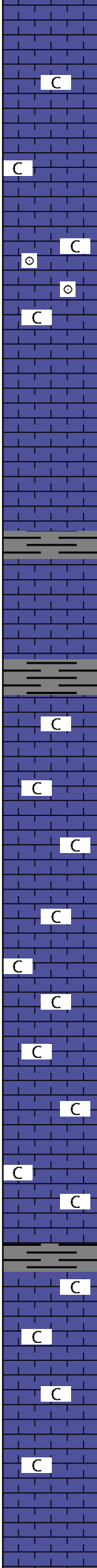
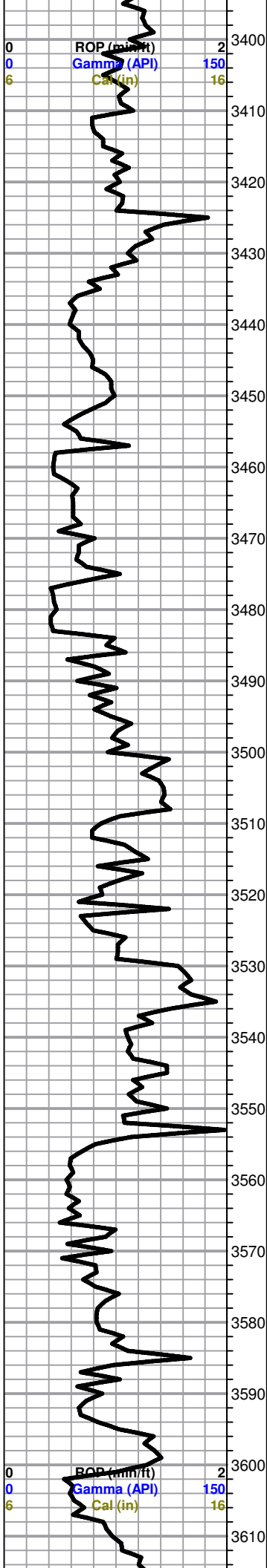
LS, gray to cream, micro-xln, mostly lithographic and dense with poor visible porosity, with some very scattered cream oolitic to sub-oomoldic with poor visible porosity, no show or odor

LS, cream to gray, micro-xln, mostly lithographic and dense with poor visible porosity, few very scattered chips with re-crystallized edges and few small vugs, overall poor visible porosity, no show or odor

LS as above, no show or odor



Geologist Jeremy Schwartz on location @ 0330hrs, 3315'



LS, cream to gray, micro-xln, mostly lithographic and dense with poor visible porosity, slightly chalky, no show or odor

LS, mostly cream with some very scattered gray, lithographic and dense with poor visible porosity, some very scattered chips with several small vugs, overall poor visible porosity, barren, with trace gray oolitic, slightly chalky, no show or odor

LS as above, no show or odor

LS, mostly cream with some very scattered gray, micro-xln, lithographic and dense with poor visible porosity, some scattered chips with one to two small vugs, barren, no odor

Mostly same as above, very fine crushed sample, fairly chalky, no show or odor

LS, cream, micro-xln, very fine crushed sample, chalky, no show or odor

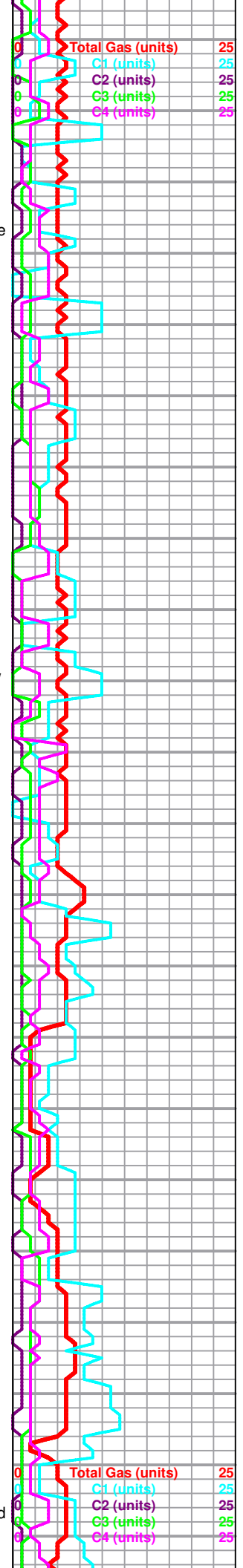
LS as above, chalky, no show or odor

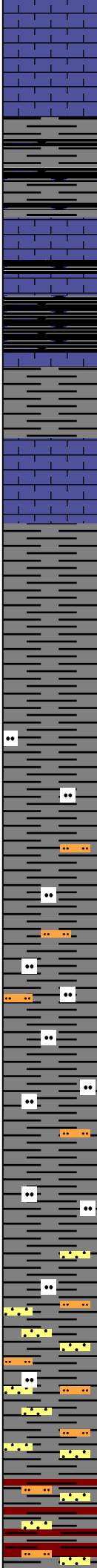
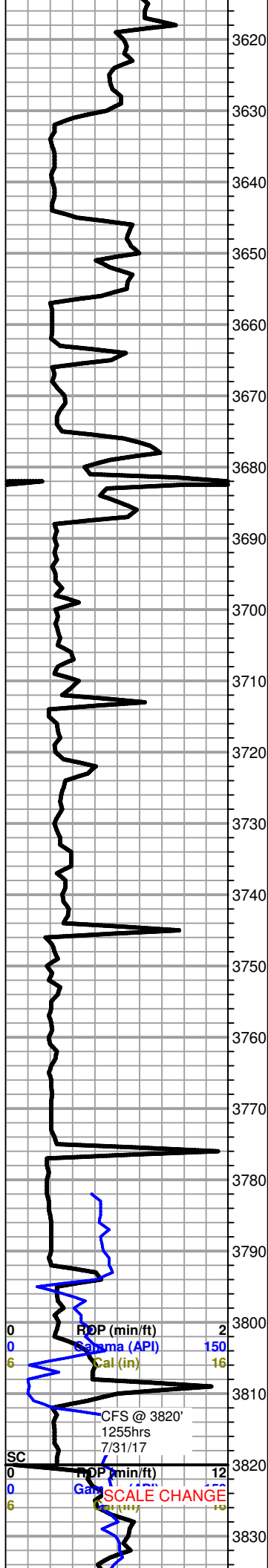
LS, cream, micro-xln, very fine crushed sample, few small chips with scattered mostly poor pinpoint porosity, fairly chalky, no show or odor

LS as above, fairly chalky, no show or odor

LS, cream, micro-xln, very fine crushed sample, lithographic with poor visible porosity, fairly chalky, no show or odor

LS as above, with slight influx gray to light gray and some very scattered brown, micro-xln, lithographic and dense with poor visible porosity, no show or odor





LS, cream to gray with some very scattered brown, micro-xln, lithographic and dense with poor visible porosity, no show or odor

Heebner 3656 (-1746)

Shale, black carbonaceous

Toronto 3676 (-1766)

LS, cream to light gray, micro-xln. few chips with slightly re-crystallized edges and mostly poor very scattered pinpoint porosity on edges only, no show or odor

Douglas 3688 (-1778)

Shale, dark gray to gray, mostly soft and waxy, some dense

Shale as above, with some dark brown, some silty

Shale as above

Shale, dark gray to dark brown, some silty

Shale as above

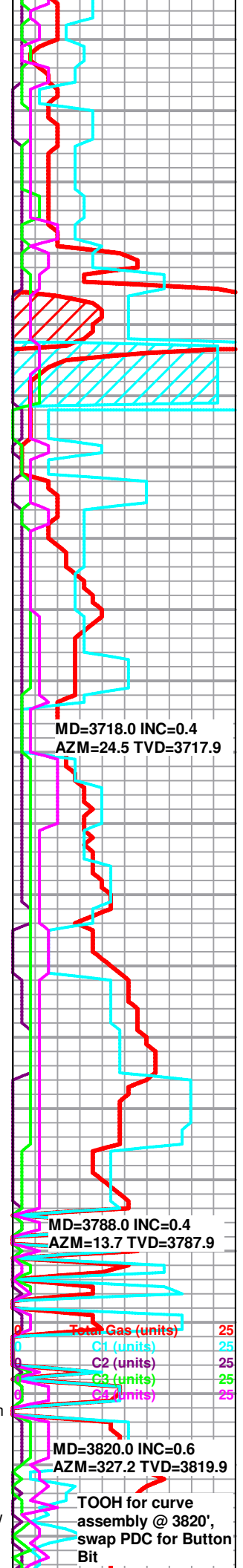
3820' 30" Shale as above, with slight influx scattered SS clusters, clear to light gray, fine-grained, sub-rounded to sub-angular and poorly sorted, fairly friable, barren, some with shale inclusions, no show or odor

3820' 60" mostly gray shale with some scattered brown, some silty, with SS clusters as above, barren, no odor

10' wet and dry samples begin @ 3830'

Shale, gray to dark gray and red with some brown, some silty, also with some scattered SS clusters, vf-f grained, gray to light gray, sub-rounded to sub-angular and poorly sorted, fairly friable, barren, no show or odor

Brown Lime 3826 (-1826)



MD=3718.0 INC=0.4
AZM=24.5 TVD=3717.9

MD=3788.0 INC=0.4
AZM=13.7 TVD=3787.9

Total Gas (units) 25
C1 (units) 25
C2 (units) 25
C3 (units) 25
C4 (units) 25

MD=3820.0 INC=0.6
AZM=327.2 TVD=3819.9

TOOH for curve assembly @ 3820'; swap PDC for Button Bit

Brown Lime 3836 (-1926)

LS, gray to brown with some scattered cream, most oolitic to sub-oolitic and dense with no visible porosity, no show or odor

Begin building curve @ 3840'

Lansing 3856 (-1946)

LS, gray to cream with some brown, micro-xln, lithographic and dense with poor visible porosity, with some scattered sub-oolitic to oolitic and some very scattered soft and chalky in part, no show or odor

MD=3852.0 INC=3.1
AZM=6.2 TVD=3851.9

LS, mostly gray to cream with some scattered brown, micro-xln, dense with poor visible porosity, no show or odor

MD=3884.0 INC=7.5
AZM=8.8 TVD=3883.7

LS as above, no show or odor

LS, cream to gray with some very scattered white, micro-xln, mostly lithographic and dense, some soft and chalky in part, slightly chalky sample, no show or odor

MD=3915.0 INC=12.3
AZM=4.6 TVD=3914.3

LS, mostly cream to gray with some scattered white, micro-xln with some scattered medium-xln, mostly dense with poor visible porosity, few small chips with one to two small vugs, overall poor visible porosity, with some scattered soft and chalky in part, slightly chalky sample, no show or odor

LS, mostly cream to gray, micro-xln, dense with poor visible porosity, with some scattered soft and chalky in part, no show or odor

MD=3947.0 INC=16.1
AZM=1.6 TVD=3945.3

LS as above, no show or odor

LS, mostly cream with some light gray to gray, micro-xln, lithographic with poor visible porosity, with some very scattered soft and chalky in part, no show or odor

LS, cream to gray, micro-xln, lithographic with poor visible porosity, with some scattered soft and chalky in part, no show or odor

LS, gray to cream with some scattered brown, micro-xln, lithographic and dense with poor visible porosity, no show or odor

LS as above, no show or odor

LS, cream to gray, micro-xln, mostly lithographic and dense with poor visible porosity, some scattered soft and chalky in part, trace oolitic, no show or odor

MD=3979.0 INC=19.9
AZM=358.1 TVD=3975.7

LS as above, no show or odor

Total Gas (units) 25
C1 (units) 25
C2 (units) 25
C3 (units) 25

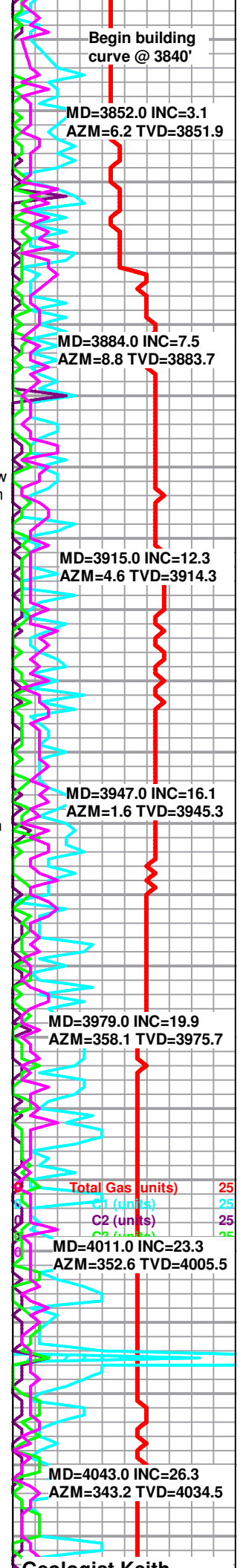
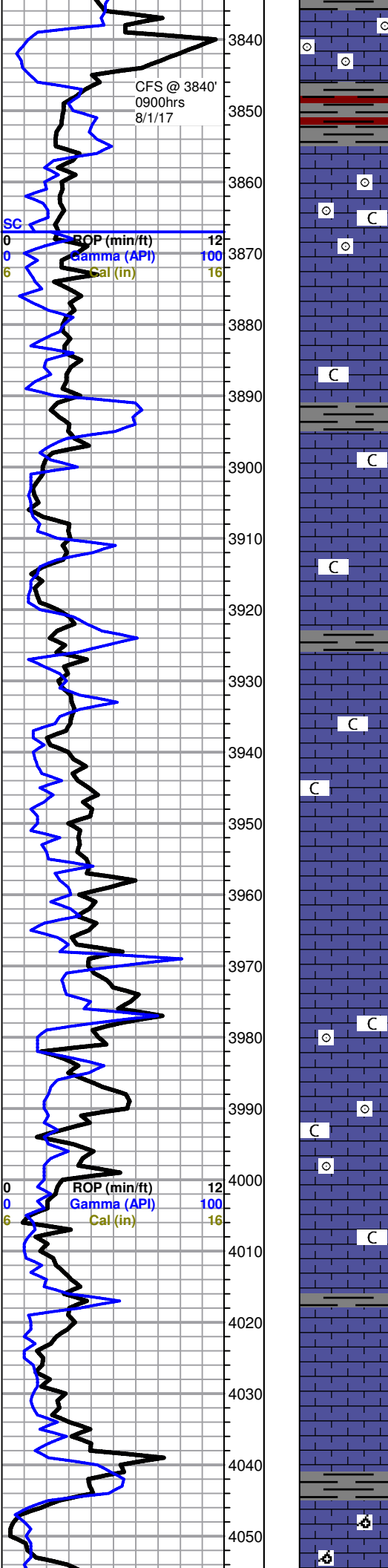
LS, cream to gray, micro-xln, lithographic and dense with poor visible porosity, some very scattered soft and chalky in part, no show or odor

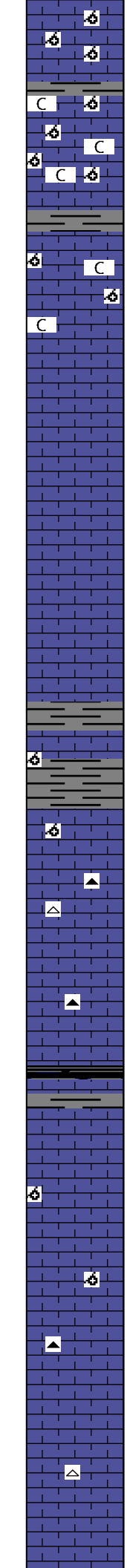
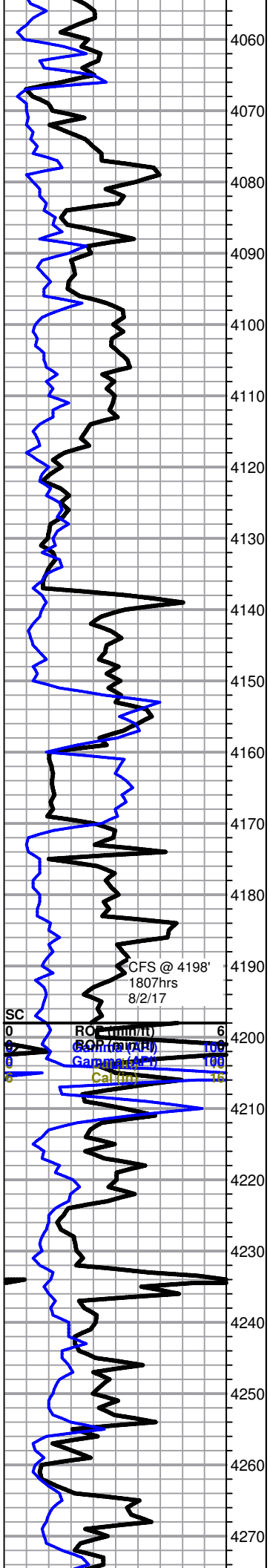
MD=4011.0 INC=23.3
AZM=352.6 TVD=4005.5

LS as above, with trace oolitic, few very scattered chips with re-crystallized edges and one to two small vugs on edges only, no show or odor

LS, cream to gray, micro-xln, lithographic and dense with poor visible porosity, some soft and chalky in part, with some scattered slightly re-crystallized, some with with several small vugs, overall poor visible porosity, with trace oomoldic with mostly poor and some very scattered fair oomold porosity, barren, no show or odor

MD=4043.0 INC=26.3
AZM=343.2 TVD=4034.5





LS, cream to gray with some scattered brown, micro-xln, oomoldic, mostly fair with some good oomold porosity, barren, no odor

LS, cream to gray with some scattered brown, micro-xln, some oomoldic as above, some lithographic and dense with poor visible porosity, fairly chalky, no show or odor

LS as above, with oomoldic slightly dropping out and slight influx lithographic and dense, no show or odor

LS, mostly same as above, no show or odor

LS, cream to gray, micro-xln, mostly lithographic and dense with poor visible porosity, with some soft and chalky in part, trace oomoldic, no show or odor

LS, gray to cream, micro-xln, lithographic and dense with poor visible porosity, no show or odor

LS as above, no show or odor

LS, cream to gray, micro-xln, lithographic and dense with poor visible porosity, no show or odor

LS, gray to cream, micro-xln, lithographic and dense with poor visible porosity, no show or odor

LS as above, with few very scattered chips sub-oomoldic to oomoldic with poor visible oomold porosity, trace white and brown chert, fresh and sharp, no show or odor

LS, gray to cream, lithographic and dense with poor visible porosity, no show or odor

4198' 30" LS, cream to gray, micro-xln, lithographic and dense with poor visible porosity, no show or odor

4198' 60" LS as above, with trace gray to dark gray chert, no show or odor

Hushpuckney

LS, cream to gray with some scattered brown, micro-xln, lithographic and dense with poor visible porosity, no show or odor

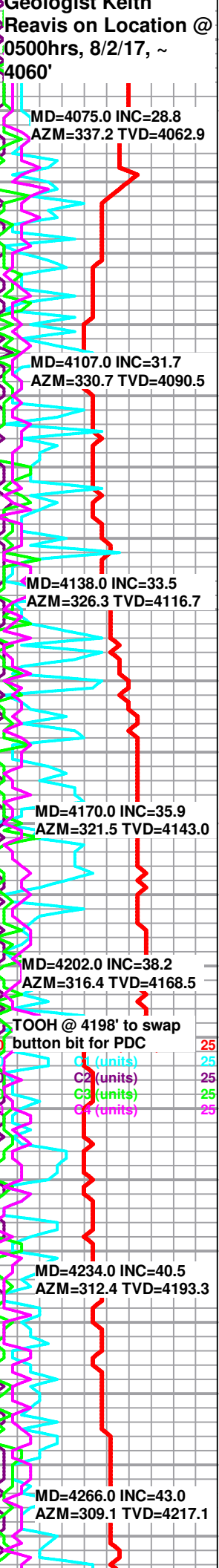
LS, cream to brown, micro-xln, lithographic and dense with poor visible porosity, trace oomoldic with mostly poor and some scattered fair oomold porosity, dense and barren, no odor

LS, cream to gray with some very scattered brown, lithographic and dense with poor visible porosity, with trace tan to gray chert, no show or odor

LS, cream to gray with some scattered brown, micro-xln, lithographic and dense with poor visible porosity, no show or odor

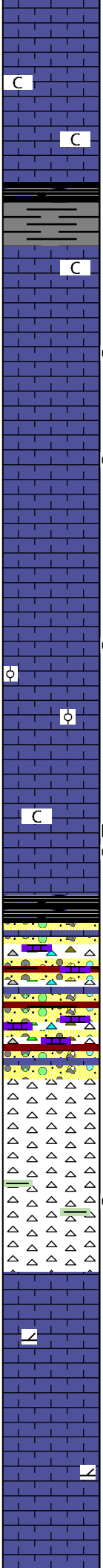
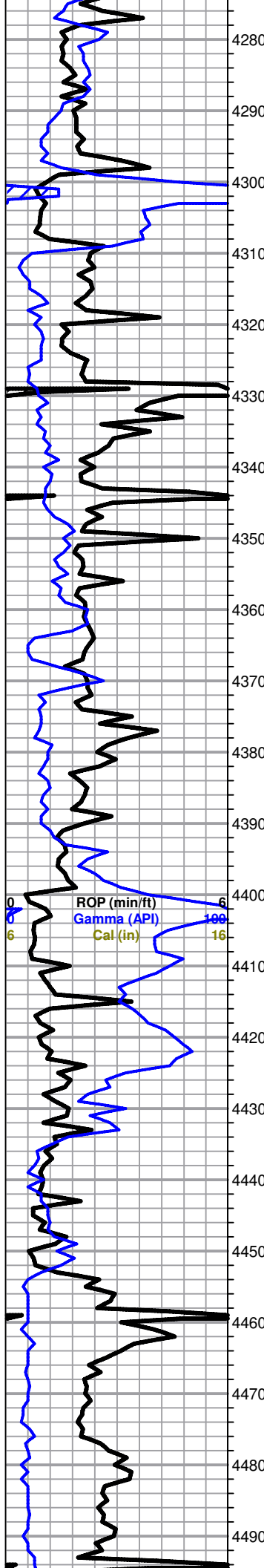
LS as above, with some very scattered brown to opaque and trace white chert, no show or odor

LS, cream to gray with some scattered brown, micro-xln, lithographic with poor visible porosity, no show or odor



CFS @ 4198'
1807hrs
8/2/17

SC	RO (units)	6
0	GOR (units)	100
0	Gamma (units)	100
0	Cal (units)	10



LS as above, no show or odor

LS, cream to gray with some scattered white, micro-xln, lithographic and dense with poor visible porosity, some soft and chalky in part, no show or odor

Marmaton 4308 MD / 4240 TVD (-2330)

LS, cream to gray, micro-xln, mostly lithographic with poor visible porosity, some scattered soft and chalky in part, no show or odor

LS as above, with trace oolitic with fair to good tarry inter-oolite staining as well as as some oolites saturated as well, slow streaming cut, also with few corral fans with mostly saturated to saturated tarry stain, fair odor

Very fine crushed sample, LS, cream, micro-xln, some very small chips slightly vuggy with scattered to mostly saturated tarry black stain, no odor

Very fine crushed sample, LS, cream, micro-xln, lithographic with poor visible porosity, no show or odor

LS as above, no show or odor

Very fine crushed sample, LS, cream, micro-xln, with some very scattered oolitic with scattered tarry inter-oolite stain, no odor

LS, cream, micro-xln, lithographic with poor visible porosity, with trace brown chert, no show or odor

LS, cream to gray, micro-xln, mostly lithographic with poor visible porosity, some very scattered soft and chalky in part with scattered gilsonitic stain, upon break chips show fair show free oil (opaque droplets)

LS, cream to gray, micro-xln, with some scattered small white and opaque and orange chert fragments, fresh and sharp, no show or odor

Mississippian Chert 4424 MD / 4318 TVD (-2408)

influx white chert with some scattered opaque, some frosted, fresh and sharp, no show or odor

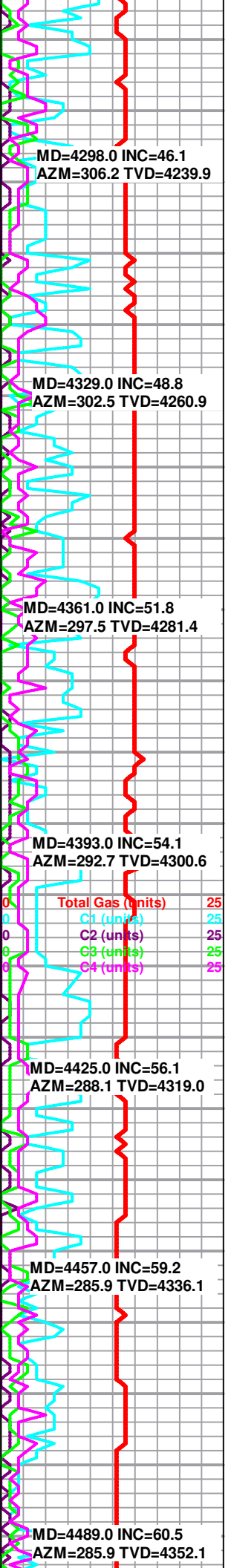
Mostly white chert with some scattered opaque, some frosted, fresh and sharp, few chips slightly tripolitic with poor stain in areas of porosity only, with trace green shale, no show or odor

Gilmore City

Chert as above, with influx cream LS, lithographic with poor visible porosity, no show or odor

LS, cream, micro-xln, lithographic with poor visible porosity, no show or odor

As above, no show or odor



MD=4298.0 INC=46.1
AZM=306.2 TVD=4239.9

MD=4329.0 INC=48.8
AZM=302.5 TVD=4260.9

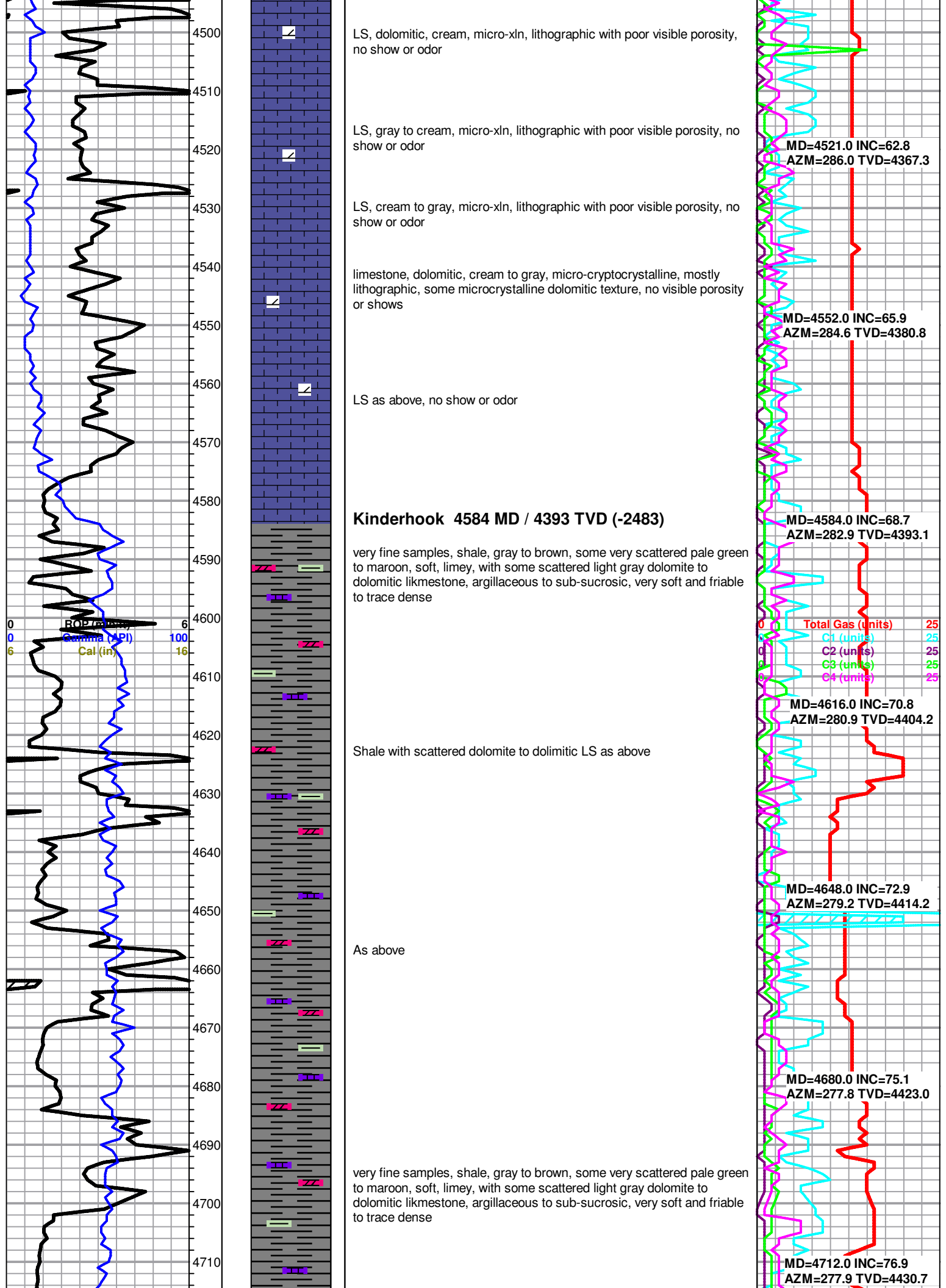
MD=4361.0 INC=51.8
AZM=297.5 TVD=4281.4

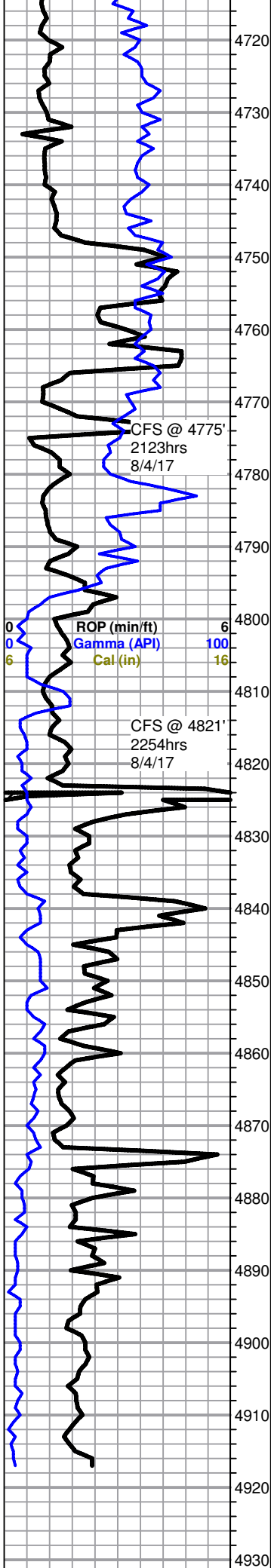
MD=4393.0 INC=54.1
AZM=292.7 TVD=4300.6

MD=4425.0 INC=56.1
AZM=288.1 TVD=4319.0

MD=4457.0 INC=59.2
AZM=285.9 TVD=4336.1

MD=4489.0 INC=60.5
AZM=285.9 TVD=4352.1





Shale and scattered dolomite to dolomitic LS as above

As above

Viola 4796 MD / 4447 TVD (-2537)

4821' 30" Dark gray to gray and some brown shales with scattered dolomite to dolomitic LS as above, influx turquoise shales, with some scattered dolomite crystals

4821' 60" Influx very fine crushed dolomite chips, cream to white, micro-xln, most chips too small and fragile to grab with tweezers, some evidence of sub-rhombic to rhombic, some very scattered chips with slight questionable staining, few vf-xln with fair to good visible vuggy porosity and scattered light stain with SSFO on surface, still carrying abundant shale as above, poor odor

4821' 90" Influx very fine crushed dolomite chips as above, some very scattered sub-rhombic to rhombic with slight stain, NSFO, no odor

As above, picking up trace tan to white chert, fresh and sharp, no show or odor

Dolomite, white, very fine crushed chips, some scattered sub-rhombic to rhombic small pieces, some scattered gray sucrosic, friable, most chips appear barren, few with scattered to very scattered stain, chips large enough to test have very slow weak cut with dull milky fluor., NSFO, trace white to opaque chert, still carrying abundant shale, poor fleeting odor

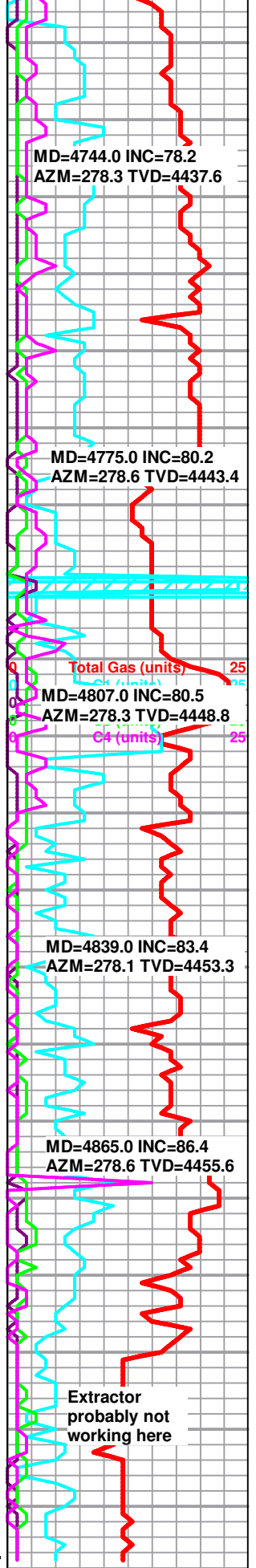
Mostly same as above, shows dropping out, few small chips sub-rhombic to rhombic with very scattered poor inter-xln stain, abundant shale, NSFO, no odor

As above, shows mostly dropping out, few very scattered chips with very scattered poor inter-xln stain, abundant shale, NSFO, no odor

As above

4917' 30" As above

3917' 60" Dolomite, white to cream, micro-xln, very fines crushed chips, some scattered sub-rhombic to rhombic, few with one to two small vugs and poor very scattered inter-xln stain in vugs only, abundant shale, NSFO, no odor



RTD / EOC @ 4917' MD / 4457' TVD (-2547)
Geologists Jeremy Schwartz & Keith Reavis both
on location from ~4060'MD - 4917' MD
****Begin Lateral Section @ 4457' TVD****



Scale 1:240 Imperial

Well Name: Reece-Riffey #1-5H
Surface Location: 330' FSL_2490' FWL SEC.5-T29S-R12W
Bottom Location: Sec.6-T29S-R12W
API: 15-151-22463-01-00
License Number: 31725
Spud Date: 7/28/2017 Time: 8:30 PM
Region: Pratt County
Drilling Completed: 8/15/2017 Time: 2:44 PM
Surface Coordinates: 319703 & 1954411
Bottom Hole Coordinates:
Ground Elevation: 1899.00ft
K.B. Elevation: 1910.00ft
Logged Interval: 4900.00ft To: 7983.00ft
Total Depth: 7983.00ft
Formation: Viola
Drilling Fluid Type:

OPERATOR

Company: Shelby Resources, LLC
Address: 13949 W Colfax Ave, Ste 120
Lakewood, CO 80401
Contact Geologist: Jeff Zoller / Janine Sturdavant
Contact Phone Nbr: 620-786-0807 / 303-907-2209
Well Name: Reece-Riffey #1-5H
Location: 330' FSL_2490' FWL SEC.5-T29S-R12W
API: 15-151-22463-01-00
Pool: Field: Wildcat
State: KS Country: Pratt

CONTRACTOR

Contractor: Sterling Drilling Co
Rig #: 4
Rig Type: Mud Rotary
Spud Date: 7/28/2017 Time: 8:30 PM
TD Date: 8/15/2017 Time: 2:44 PM
Rig Release: Time:

LOGGED BY

Company:
Address:
Phone Nbr: 203-671-6034 / 620-617-4091
Logged By: Geologist Name: Jeremy Schwartz / Keith Reavis

ELEVATIONS

K.B. Elevation: 1910.00ft
 K.B. to Ground: 11.00ft

Ground Elevation: 1899.00ft

TOTAL DEPTH

Measurement Type:

Measurement Depth:
0.00

TVD:
0.00

SURFACE CO-ORDINATES

Well Type: Horizontal
 Longitude: -98.657606
 Latitude: 37.544611
 N/S Co-ord: 319703
 E/W Co-ord: 1954411

BOTTOM-HOLE CO-ORDINATES

Longitude:
 Latitude:
 N/S Co-ord:
 E/W Co-ord:
 Location: Sec.6-T29S-R12W

DRILLING FLUID SUMMARY

Type	Date	From Depth	To Depth
	7/31/2017	3202.00ft	4917.00ft

NOTES

The Shelby Resources, LLC Reece-Riffey #1-5H was drilled to a Measured Depth of 7983' and a True Vertical Depth of 4457', bottoming in and drilled horizontally through the Viola, with oversight by Tres Management, LLC. The well was steered horizontally by Wolverine Directional with the proposed well path being determined by Shelby. A TookeDaq gas detector was employed in the drilling of said well. Further completion procedures will be handled by Shelby Resources, LLC.

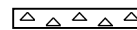
Respectfully Submitted,
 Jeremy Schwartz & Keith Reavis
 Geologists

DIRECTIONAL

Company: Wolverine Directional / Terrapilot MWD
 Services: Directional Drilling
 Driller's Names: Sid Richardson / Floyd Dennis
 MWD Operator: Brian Bobo / Charlie McDougal
 Kick Off Depth: 3840.00
 Plane of Vert Sect: Max Deviation:
 Total Vert Sect:

ROCK TYPES

 Dolprim

 Cht

 Shgy

 Shblk

ACCESSORIES

MINERAL

- △ Chert White
- P Pyrite
- Argillaceous/Shale

STRINGER

- ▨ Dolomite
- ▨ Shale
- ▨ green shale

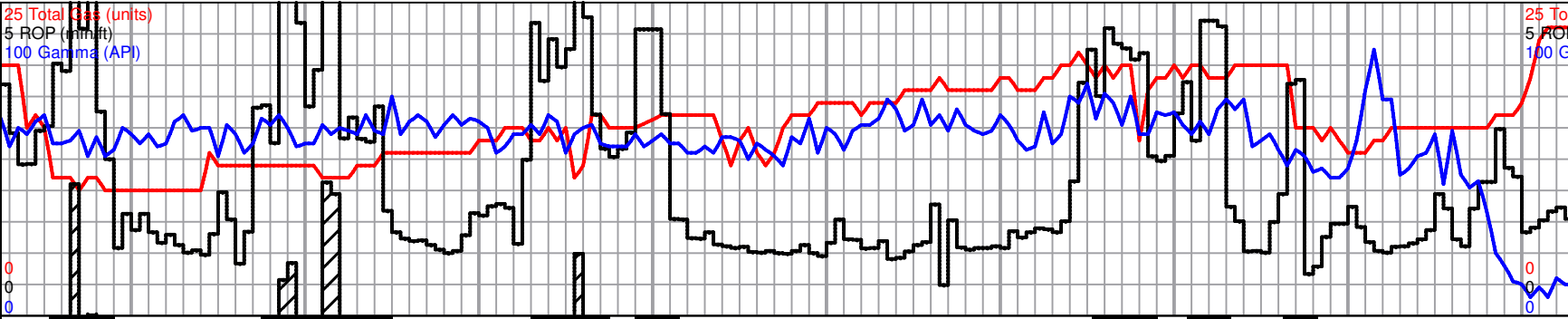
OTHER SYMBOLS

OIL SHOWS

- Even Stn
- Spotted Stn 50 - 75 %
- Spotted Stn 25 - 50 %
- Spotted Stn 1 - 25 %
- Questionable Stn
- D Dead Oil Stn
- Fluorescence

Printed by GEOstrip HZ Striplog version 4.0.8.15 (www.grsi.ca)

Curve Track #01
 Total Gas (units)
 ROP (min/ft)
 Gamma (API)
 1:240 Imperial

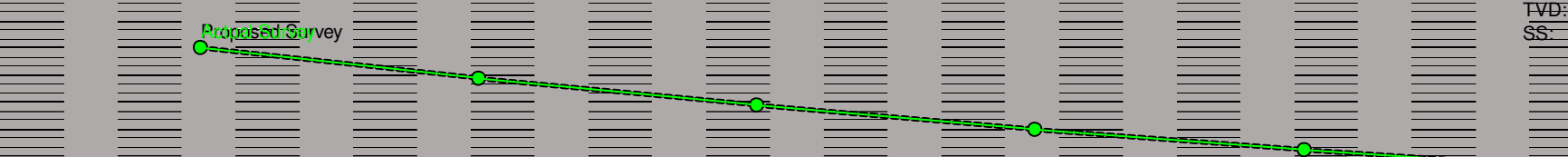


Sliding
 Depth
 Proposed Survey Data
 survey
 1:240 Imperial

1 survey	MD: 4,648.00 ft Incl: 72.90 Azi: 279.20 TVD: 4,414.15 ft	MD: 4,680.00 ft Incl: 75.10 Azi: 277.80 TVD: 4,422.97 ft	MD: 4,712.00 ft Incl: 76.90 Azi: 277.90 TVD: 4,430.71 ft	MD: 4,744.00 ft Incl: 78.20 Azi: 278.30 TVD: 4,437.61 ft	MD: 4,775.00 ft Incl: 80.20 Azi: 278.60 TVD: 4,443.42 ft	1 survey
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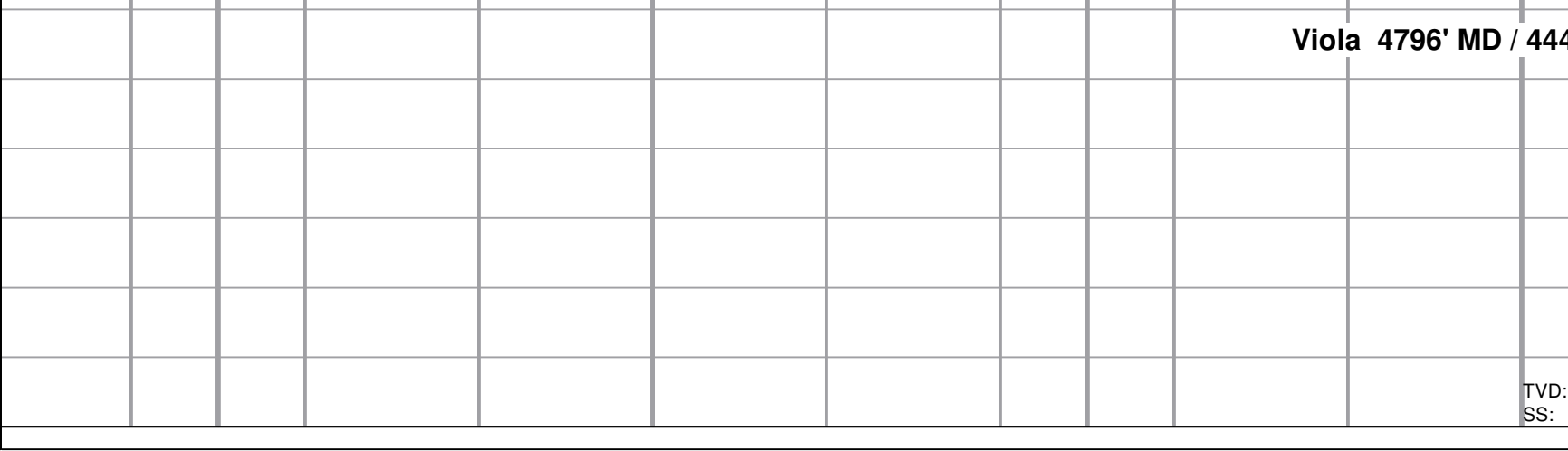
Actual Survey Data
 survey
 1:240 Imperial

1 survey	MD: 4,648.00 ft Incl: 72.90 Azi: 279.20 TVD: 4,414.15 ft	MD: 4,680.00 ft Incl: 75.10 Azi: 277.80 TVD: 4,422.97 ft	MD: 4,712.00 ft Incl: 76.90 Azi: 277.90 TVD: 4,430.71 ft	MD: 4,744.00 ft Incl: 78.20 Azi: 278.30 TVD: 4,437.61 ft	MD: 4,775.00 ft Incl: 80.20 Azi: 278.60 TVD: 4,443.42 ft	1 survey
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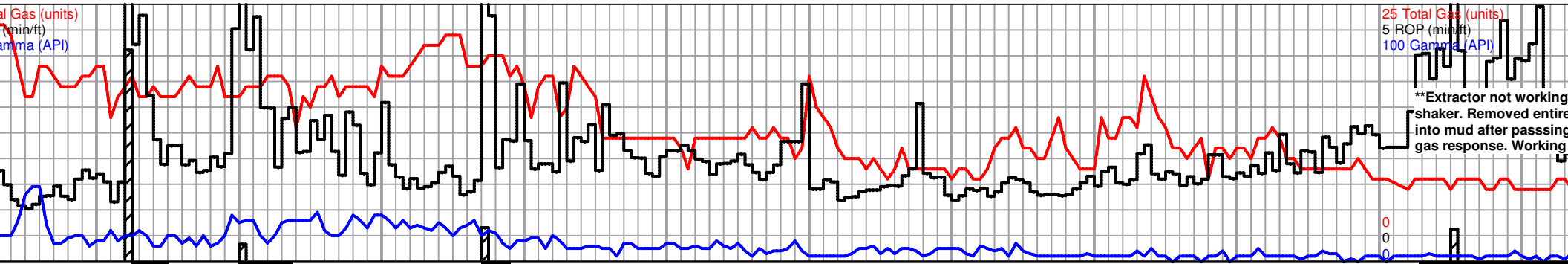
**Two Man Logging Operations Commence 8/7/17
 Geologist Jeremy Schwartz on location**

Well Bore Cross Section
 Oil Shows



Viola 4796' MD / 444''

TVD: 4
 SS: -

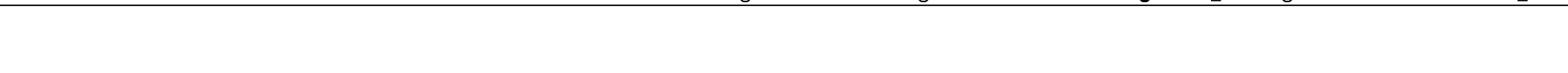


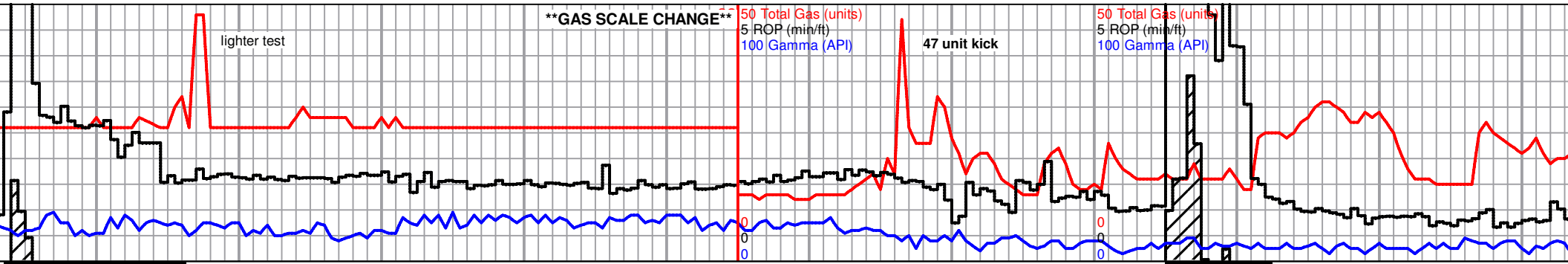
MD: 4,807.00 ft Incl: 80.50 Azi: 278.30 TVD: 4,448.79 ft	MD: 4,839.00 ft Incl: 83.40 Azi: 278.10 TVD: 4,453.27 ft	MD: 4,865.00 ft Incl: 86.40 Azi: 278.60 TVD: 4,455.58 ft	MD: 4,900.00 ft Incl: 88.82 Azi: 278.60 TVD: 4,457.04 ft	MD: 4,917.00 ft Incl: 90.00 Azi: 278.60 TVD: 4,457.21 ft	MD: 4,936.00 ft Incl: 89.60 Azi: 281.80 TVD: 4,458.06 ft	MD: 4,966.00 ft Incl: 89.80 Azi: 281.50 TVD: 4,458.21 ft	MD: 4,983.67 ft Incl: 88.00 Azi: 278.60 TVD: 4,458.37 ft	MD: 4,997.00 ft Incl: 90.10 Azi: 280.80 TVD: 4,458.24 ft	MD: 4,997.00 ft Incl: 90.10 Azi: 280.80 TVD: 4,458.24 ft	MD: 4,997.00 ft Incl: 90.10 Azi: 280.80 TVD: 4,458.24 ft
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MD: 4,807.00 ft Incl: 80.50 Azi: 278.30 TVD: 4,448.79 ft	MD: 4,839.00 ft Incl: 83.40 Azi: 278.10 TVD: 4,453.27 ft	MD: 4,865.00 ft Incl: 86.40 Azi: 278.60 TVD: 4,455.58 ft	MD: 4,936.00 ft Incl: 89.60 Azi: 281.80 TVD: 4,458.06 ft	MD: 4,966.00 ft Incl: 89.80 Azi: 281.50 TVD: 4,458.21 ft	MD: 4,997.00 ft Incl: 90.10 Azi: 280.80 TVD: 4,458.24 ft
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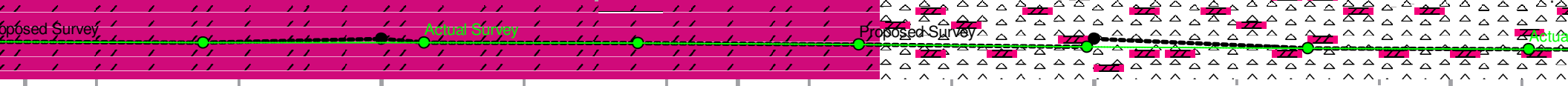
<p>7' TVD (-2537)</p> <p>**See Reece-Riffey 1-5H Vertical log for previous lithologies and descriptions**</p>	<p>Dolomite, very finely crushed, can only see white chips and some scattered gray sucrosic, most appear barren, some very scattered with questionable very light brown stain, trace small chips white chert, also with some scattered graphite (from mud system), NSFO, no odor or flour</p>	<p>Dolomite, mostly same as last description, found one small chip vuggy with saturated stain, with some gray sucrosic, vf-xln, upon break few free oil droplets in matrix, also with some very scattered chips white chert, barren, and some scattered graphite, scattered mostly dull with trace bright white fluor., fair odor</p>	<p>Dolomite, white, very fine appear barren, with some chips, also with scattered scattered dull white to yellow odor</p>
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5,244.00 ft	MD: 5,275.00 ft	MD: 5,300.00 ft	MD: 5,306.00 ft	MD: 5,336.00 ft	MD: 5,367.00 ft	MD: 5,399.00 ft	MD: 5,400.00 ft	MD: 5,430.00 ft	MD: 5,430.00 ft	MD: 5,464.38 ft
Incl: 88.90	Incl: 90.10	Incl: 90.00	Incl: 90.00	Incl: 89.30	Incl: 88.70	Incl: 88.50	Incl: 90.00	Incl: 89.40	Incl: 89.40	Incl: 89.40
Azi: 281.10	Azi: 281.10	Azi: 280.75	Azi: 280.80	Azi: 280.80	Azi: 280.90	Azi: 280.40	Azi: 283.75	Azi: 282.20	Azi: 282.20	Azi: 282.20
TVD: 4,462.06 ft	TVD: 4,462.33 ft	TVD: 4,460.97 ft	TVD: 4,462.31 ft	TVD: 4,462.49 ft	TVD: 4,463.03 ft	TVD: 4,463.81 ft	TVD: 4,460.97 ft	TVD: 4,464.38 ft	TVD: 4,464.38 ft	TVD: 4,464.38 ft

MD: 5,244.00 ft	MD: 5,275.00 ft	MD: 5,306.00 ft	MD: 5,336.00 ft	MD: 5,367.00 ft	MD: 5,399.00 ft	MD: 5,430.00 ft	MD: 5,430.00 ft	MD: 5,464.38 ft	MD: 5,464.38 ft	MD: 5,464.38 ft
Incl: 88.90	Incl: 90.10	Incl: 90.00	Incl: 89.30	Incl: 88.70	Incl: 88.50	Incl: 89.40	Incl: 89.40	Incl: 89.40	Incl: 89.40	Incl: 89.40
Azi: 281.10	Azi: 281.10	Azi: 280.80	Azi: 280.80	Azi: 280.90	Azi: 280.40	Azi: 282.20	Azi: 282.20	Azi: 282.20	Azi: 282.20	Azi: 282.20
TVD: 4,462.06 ft	TVD: 4,462.33 ft	TVD: 4,462.31 ft	TVD: 4,462.49 ft	TVD: 4,463.03 ft	TVD: 4,463.81 ft	TVD: 4,464.38 ft	TVD: 4,464.38 ft	TVD: 4,464.38 ft	TVD: 4,464.38 ft	TVD: 4,464.38 ft



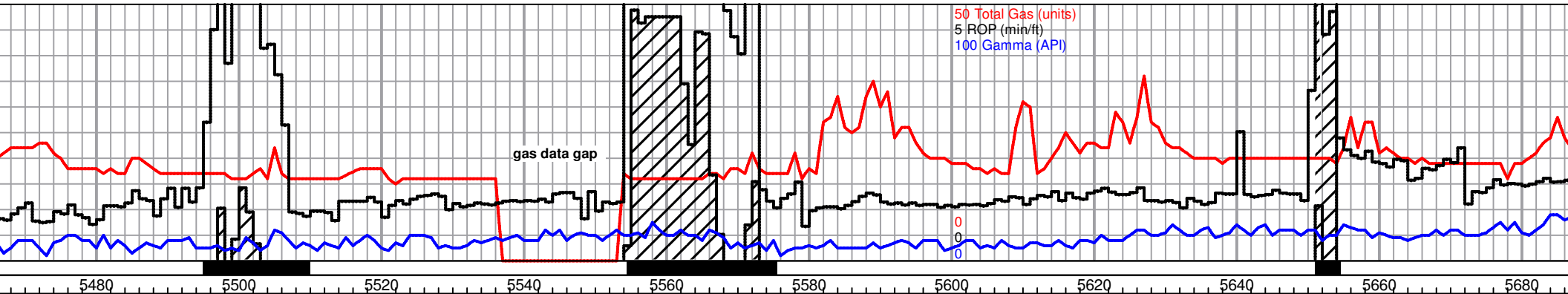
5300-5400 samples, same as before

5420 sample, flood chert, white opaque to translucent, sharp, fresh, larger fragments than associated dolomite (powder), appx 50/50 chert-dol., no visible shows

5440-5480 sample, chert and dolomite as previous, few small specimens dolomite, sucrosic, golden brown (stain?), no free oil, bright fluorescence, no cut, no odor

Roughly 50/50 some scattered to see some brown, sucrosic stain, some rhombic, scattered odor

TVD: 4600.00
SS: -2690.00

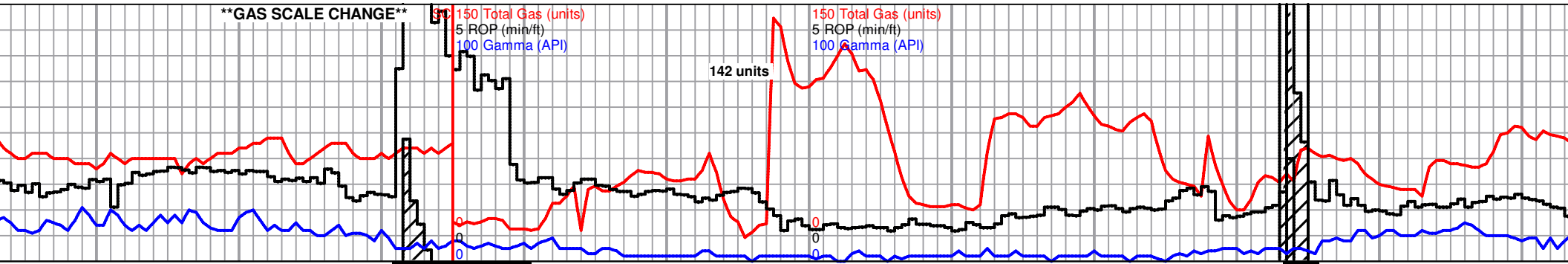


MD: 5,461.00 ft	MD: 5,492.00 ft	MD: 5,523.00 ft	MD: 5,556.00 ft	MD: 5,584.00 ft	MD: 5,600.00 ft survey	MD: 5,615.00 ft	MD: 5,646.00 ft	MD: 5,672.00 ft
Incl: 89.30	Incl: 89.60	Incl: 90.30	Incl: 90.90	Incl: 92.00	Incl: 90.00	Incl: 91.70	Incl: 91.70	Incl: 91.70
Azi: 282.70	Azi: 283.70	Azi: 285.10	Azi: 285.10	Azi: 287.30	Azi: 289.33	Azi: 287.30	Azi: 287.60	Azi: 287.60
TVD: 4,464.73 ft	TVD: 4,465.03 ft	TVD: 4,465.06 ft	TVD: 4,464.71 ft	TVD: 4,464.00 ft	TVD: 4,460.97 ft	TVD: 4,463.00 ft	TVD: 4,462.08 ft	TVD: 4,462.08 ft

MD: 5,461.00 ft	MD: 5,492.00 ft	MD: 5,523.00 ft	MD: 5,556.00 ft	MD: 5,584.00 ft ¹ survey	MD: 5,615.00 ft	MD: 5,646.00 ft	MD: 5,672.00 ft
Incl: 89.30	Incl: 89.60	Incl: 90.30	Incl: 90.90	Incl: 92.00	Incl: 91.70	Incl: 91.10	Incl: 90.00
Azi: 282.70	Azi: 283.70	Azi: 285.10	Azi: 285.10	Azi: 287.30	Azi: 287.30	Azi: 287.60	Azi: 286.00
TVD: 4,464.73 ft	TVD: 4,465.03 ft	TVD: 4,465.06 ft	TVD: 4,464.71 ft	TVD: 4,464.00 ft	TVD: 4,463.00 ft	TVD: 4,462.25 ft	TVD: 4,462.25 ft



<p>mix white chert and dolomite, and dolomite samples large enough to see structure, dolomite, white to light tan with possible light golden brown stain, scattered chips sub-rhombic to rhombic, mostly dull floor., NSFO, no odor</p>	<p>Samples mostly same as previous description, possible stain appears to be slightly dropping out but still visible on some very scattered chips, 5560' sample with slight odor, scattered bright white to yellow fluor. and slight show gas bubbles, 5580' sample with very scattered dull floor and no odor, NSFO in either sample</p>	<p>Chert and dolomite as previously, some very scattered dolomite chips sub-rhombic to rhombic, some with very scattered possible light golden brown stain, slight odor and good scattered bright fluor., in 5600' sample, no odor and very scattered dull floor. with very slight show gas bubbles in 5620', NSFO in either sample</p>	<p>Dolomite with some chert, influx dolomite, white, chips big enough to see are sucrosic to sub-rhombic-rhombic, some with scattered to saturated light golden brown stain, with some scattered calcite crystals, NSFO, good scattered bright white to yellow fluor., 5660' sample mostly same with shows appearing to be dropping out, less gassy, very scattered dull floor., NSFO,</p>	<p>5700'-5720' sample, Dolomite and white dolomite chips mostly sucrosic, no visible NSFO, very scattered dull to bright yellow no odor</p>
<p>TVD: 4600.00 SS: -2690.00</p>				



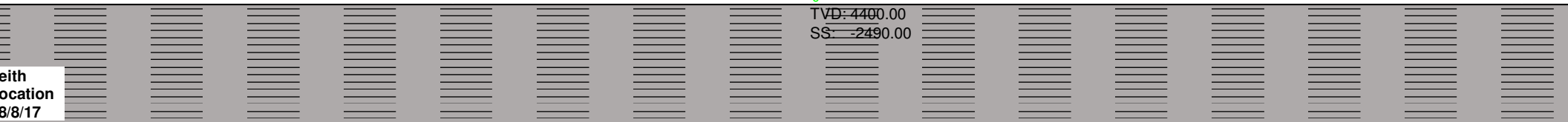
MD: 5,700.00 ft
 Incl: 91.70
 Azi: 287.60
 TVD: 4,460.48 ft

MD: 5,800.00 ft ¹ survey
 Incl: 91.70
 Azi: 287.60
 TVD: 4,457.51 ft

MD: 5,841.00 ft
 Incl: 91.70
 Azi: 287.60
 TVD: 4,456.30 ft

MD: 5,882.00 ft
 Incl: 91.70
 Azi: 287.60
 TVD: 4,455.10 ft

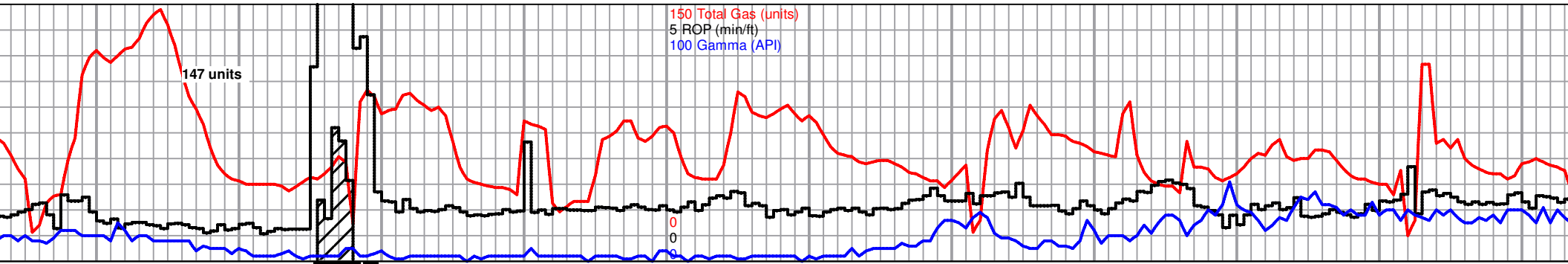
MD: 5,700.00 ft	MD: 5,708.00 ft	MD: 5,739.00 ft	MD: 5,770.00 ft	MD: 5,800.00 ft	MD: 5,831.00 ft	MD: 5,862.00 ft	MD: 5,893.00 ft
Incl: 91.70	Incl: 89.90	Incl: 90.30	Incl: 91.90	Incl: 92.10	Incl: 91.80	Incl: 91.00	Incl: 90.10
Azi: 287.60	Azi: 286.40	Azi: 286.90	Azi: 288.80	Azi: 289.40	Azi: 289.90	Azi: 289.40	Azi: 289.00
TVD: 4,460.48 ft	TVD: 4,461.97 ft	TVD: 4,461.92 ft	TVD: 4,461.33 ft	TVD: 4,460.28 ft	TVD: 4,459.22 ft	TVD: 4,458.47 ft	TVD: 4,458.17 ft



Well location 8/8/17

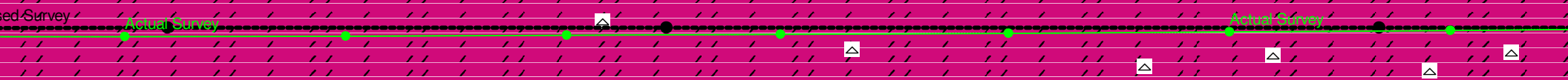
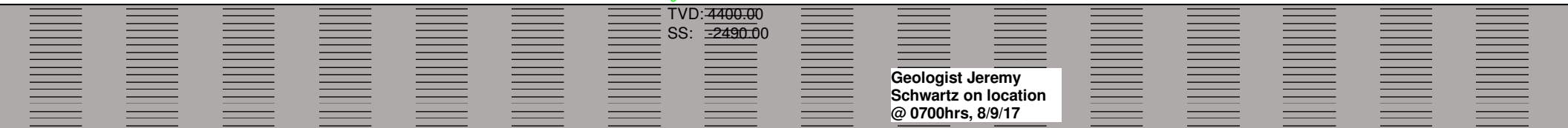
white chert, visible stain, yellow fluor.,	dolomite, white to light gray, microcrystalline, crushed but still some defined crystals, moderate black to brown stain, appears mostly gilsonitic, staining within crystal cleavage, fair to good spotty fluorescence, no odor, some scattered cherts	dolomite as before, increased staining, still carrying some chert	5860 sample, dolomite as before, very heavy stain, abundant heavy gilsonitic residue in tray, slightly gassy, 5880 sample, decreasing stain, slightly gassy, slow bright milky cut with halo, slight increase in chert	5900 - 5920 sample, dolomite, white to cream, crushed, microcrystalline, fairly uniform crystal size, light spotty tray, faint odor, slow staining, scattered chert, good even with halo fluorescence	5940 - 5960 sample, increase in stain gilsonitic, with halo fluorescence
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TVD: 4600.00
 SS: -2690.00

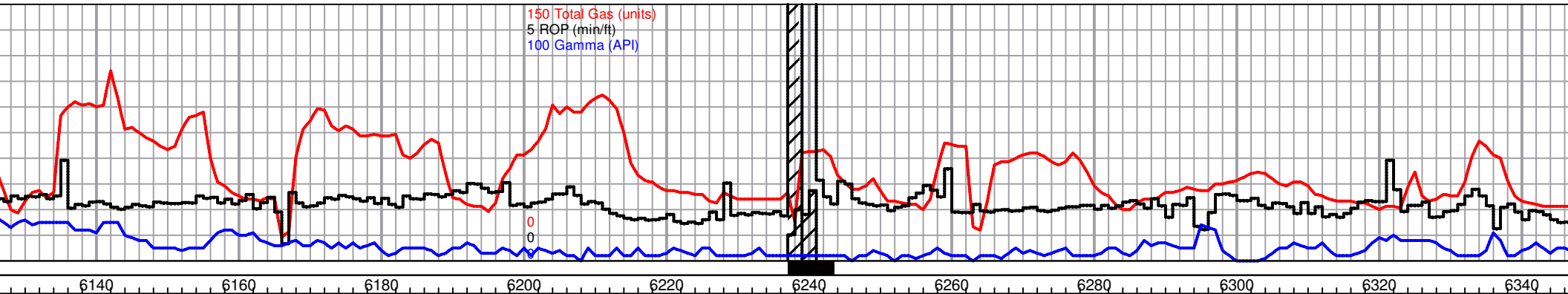


5,900.00 ft	MD: 5,930.02 ft	MD: 6,000.00 ft 1 survey	MD: 6,100.00 ft
90.57	Incl: 90.00	Incl: 90.00	Incl: 90.00
288.97	Azi: 289.66	Azi: 289.66	Azi: 289.66
4,455.13 ft	TVD: 4,454.98 ft	TVD: 4,454.98 ft	TVD: 4,454.98 ft

0 ft	MD: 5,924.00 ft	MD: 5,955.00 ft	MD: 5,986.00 ft 1 survey	MD: 6,016.00 ft	MD: 6,048.00 ft	MD: 6,079.00 ft	MD: 6,110.00 ft
	Incl: 90.00	Incl: 90.40	Incl: 90.80	Incl: 90.60	Incl: 90.90	Incl: 90.90	Incl: 91.00
	Azi: 289.20	Azi: 289.20	Azi: 289.40	Azi: 289.40	Azi: 289.70	Azi: 289.90	Azi: 289.70
	TVD: 4,458.14 ft	TVD: 4,458.03 ft	TVD: 4,457.71 ft	TVD: 4,457.34 ft	TVD: 4,456.92 ft	TVD: 4,456.44 ft	TVD: 4,455.92 ft



as before, onitic residue in bright milky cut	5980 - dolomite, finely crushed, white to cream, heavily stained, abundant gilsonitic residue in tray, faint odor, poor fluorescence, gassy, heavy scaley oily sheen, slow bright milky cut with halo	6000 sample, dolomite, white to cream, microcrystalline, fair crystal definition, heavily stained, abundant gilsonitic residue in tray, faint odor, poor fluorescence, gassy, slow bright milky cut with halo	6020 -6080 sample, dolomite, mostly white, finely crushed, light staining, , marked decrease from before, good even fluorescence, trace chert	Dolomite, white, micro-xln, small chips but xln structure visible, mostly sub-rhombic to rhombic with some scattered sucrosic, some good crystal definition, some appear barren, some have scattered to very scattered brown to black heavy stain, some flaky gilsonitic, also with some very scattered very light brown stain, 6100' sample with slight odor and very scattered dull fluor., 6120' sample with fair odor and slight increase in % rocks stained, scattered bright yellow to dull white fluor., trace chert, NSFO	Dolomite, white, micro-xln rhombic as previous, with stain as well as percent of appears to be slight influ stain, also with slight influ samples with scattered du with some white fluor., fair pyrite
			TVD: 4600.00 SS: -2690.00		



150 Total Gas (units)
5 ROP (min/ft)
100 Gamma (API)

MD: 6,200.00 ft 1 survey
Incl: 90.00
Azi: 289.66
TVD: 4,454.98 ft

MD: 6,300.00 ft
Incl: 90.00
Azi: 289.66
TVD: 4,454.98 ft

MD: 6,141.00 ft
Incl: 91.00
Azi: 289.70
TVD: 4,455.38 ft

MD: 6,172.00 ft
Incl: 91.10
Azi: 290.20
TVD: 4,454.81 ft

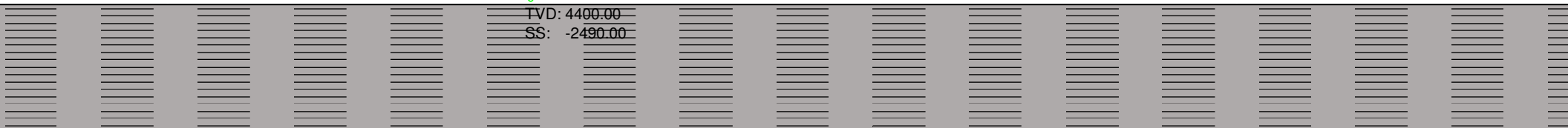
MD: 6,203.00 ft
Incl: 90.80
Azi: 289.90
TVD: 4,454.30 ft

MD: 6,234.00 ft
Incl: 90.30
Azi: 290.20
TVD: 4,454.00 ft

MD: 6,265.00 ft
Incl: 89.30
Azi: 289.00
TVD: 4,454.11 ft

MD: 6,295.00 ft
Incl: 89.20
Azi: 289.00
TVD: 4,454.50 ft

MD: 6,326.00 ft
Incl: 89.00
Azi: 289.00
TVD: 4,454.99 ft

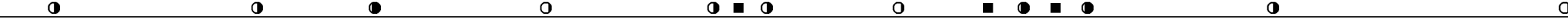


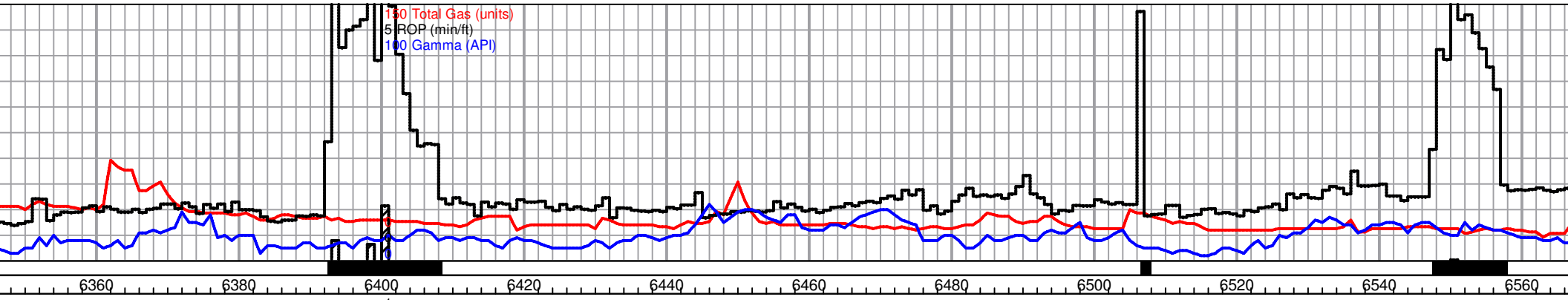
TVD: 4400.00
SS: -2490.00

<p>and sub-rhombic to increase in rocks with stain within rocks, light golden brown chert, 6140' & 6160' dull to bright mostly yellow to good odor, trace</p>	<p>Dolomite as previous, with slight decrease in shows, few very scattered chips with a small vug or two visible and mostly saturated wet black stain, some scattered dull fluor., in 6180' sample, poor fluor., in 6200', poor to fair fleeting odor in both cups, trace pyrite with some very scattered white chert</p>	<p>Dolomite, white, micro-xln, mostly sub-rhombic to rhombic, ~50/50 mix barren to scattered brown to black to flaky black gilsonitic stain, few chips mostly saturated wet black stain, chert mostly dropping out, trace pyrite, some very scattered bright white fluor., fair fleeting odor</p>	<p>Dolomite, white, micro-xln, sub-rhombic to rhombic with mostly very scattered brown to black to flaky black stain, few chips sucrosic with mostly saturated wet brown stain, very scattered white chert, mostly good dull to bright white fluor. in tray and fair to fair fleeting odor in cups</p>	<p>Dolomite as before, some scattered with mostly saturated to saturated light to dark brown stain and gassy, with influx white chert lagged back to 6280', good bright white fluor., poor fleeting odor</p>
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6280' sample slight increase in shows, noticeably light golden brown, good scattered bright white, fluor., fair odor

TVD: 4600.00
SS: -2690.00





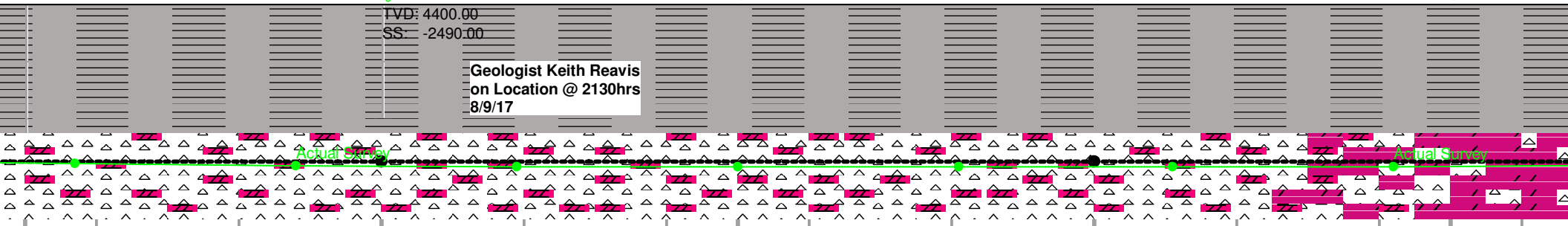
MD: 6,400.00 ft 1 survey
 Incl: 90.00
 Azi: 289.66
 TVD: 4,454.98 ft

MD: 6,500.00 ft
 Incl: 90.00
 Azi: 289.66
 TVD: 4,454.98 ft

MD: 6,357.00 ft Incl: 88.50 Azi: 289.20 TVD: 4,455.67 ft	MD: 6,388.00 ft survey Incl: 88.60 Azi: 289.20 TVD: 4,456.45 ft	MD: 6,419.00 ft Incl: 90.00 Azi: 289.40 TVD: 4,456.83 ft	MD: 6,450.00 ft Incl: 90.00 Azi: 289.50 TVD: 4,456.83 ft	MD: 6,481.00 ft Incl: 89.90 Azi: 289.50 TVD: 4,456.86 ft	MD: 6,511.00 ft Incl: 90.00 Azi: 289.40 TVD: 4,456.88 ft	MD: 6,542.00 ft Incl: 90.00 Azi: 289.20 TVD: 4,456.88 ft
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TVD: 4400.00
 SS: -2490.00

Geologist Keith Reavis
 on Location @ 2130hrs
 8/9/17



6420' sample, Chert with some dolomite as previous, dolomite shows mostly gone, some very scattered dull white fluor, no odor

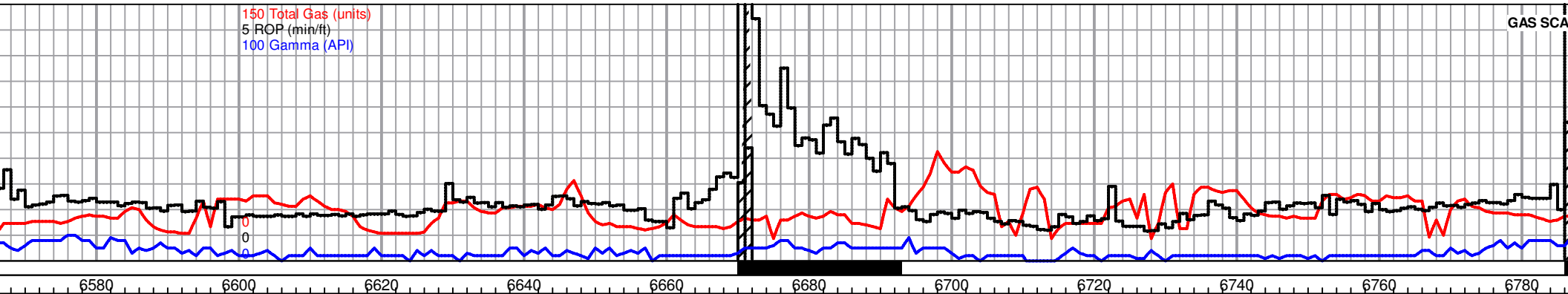
6440 - 6500 samples, chert, white to tan, dolomite, white, finely crushed, appx 50/50, no shows

6520 -6560 sampels, as before

6580 samples, as before, gradational dolomite increase, chert decrease, appx 70/30 dol. to chert, trace stain, spotty bright fluorescence

6600 - 6620 white to cream, some very fine, fairly heavy but free oil or odor, fluorescence, decreases to

TVD: 4600.00
 SS: -2690.00



MD: 6,600.00 ft
Incl: 90.00
Azi: 289.66
TVD: 4,454.98 ft

MD: 6,700.00 ft
Incl: 90.00
Azi: 289.66
TVD: 4,454.98 ft

MD: 6,573.00 ft Incl: 91.90 Azi: 289.40 TVD: 4,456.37 ft	MD: 6,604.00 ft Incl: 92.20 Azi: 289.00 TVD: 4,455.26 ft	MD: 6,635.00 ft Incl: 92.00 Azi: 289.00 TVD: 4,454.12 ft	MD: 6,666.00 ft Incl: 91.20 Azi: 289.40 TVD: 4,453.26 ft	MD: 6,697.00 ft Incl: 89.50 Azi: 289.20 TVD: 4,453.07 ft	MD: 6,728.00 ft Incl: 88.60 Azi: 288.10 TVD: 4,453.58 ft	MD: 6,759.00 ft Incl: 88.30 Azi: 288.00 TVD: 4,454.42 ft
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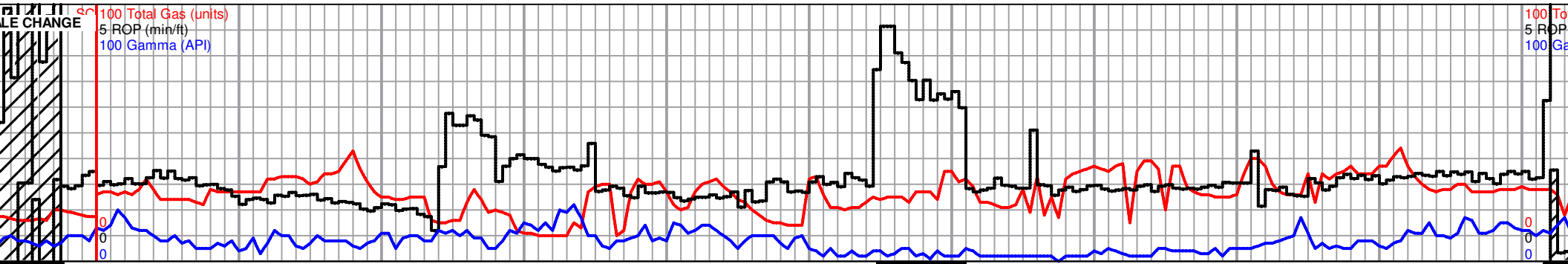
TVD: 4400.00
SS: -2490.00

Geologist Jeremy Schwartz on location @ 0800hrs, 8/9/17



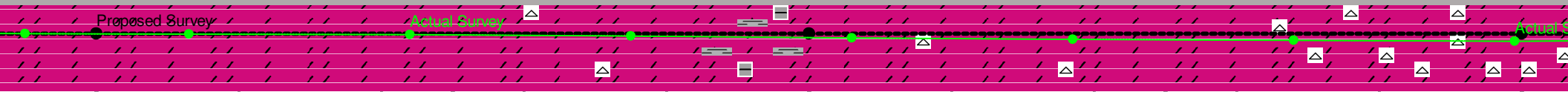
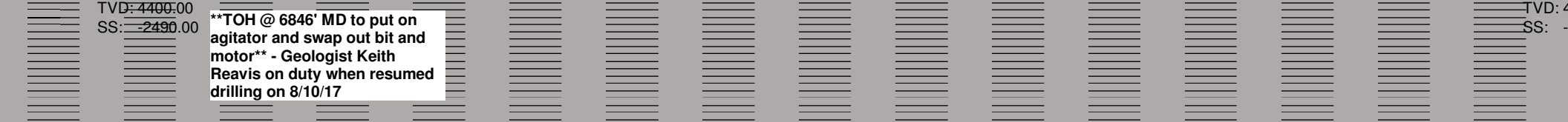
<p>samples, dolomite, m, finely crushed, crystalline, even black staining, no show or, spotty bright faint cut, chert appx 20%</p>	<p>6640 - 6660 samples, same as before, decreasing chert</p>	<p>Mostly dolomite, white to cream, micro-xln, small chips sucrosic to sub-rhombic and rhombic when large enough to see crystal structure, most (~60 +%) with scattered to mostly saturated and saturated even black stain, some barren, scattered bright white fluor. somewhat gradually decreasing in 6700-6720' samples, some very scattered chert, fair odor in cups</p>	<p>Dolomite with some very scattered chert as previous with shows, odor, and fluor. steadily decreasing in each sample,</p>	<p>Dolomite with apparent slight influx chert, shows continue to steadily drop out until 6840' sample where only very scattered chips have stain and no odor</p>
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TVD: 4600.00
SS: -2690.00

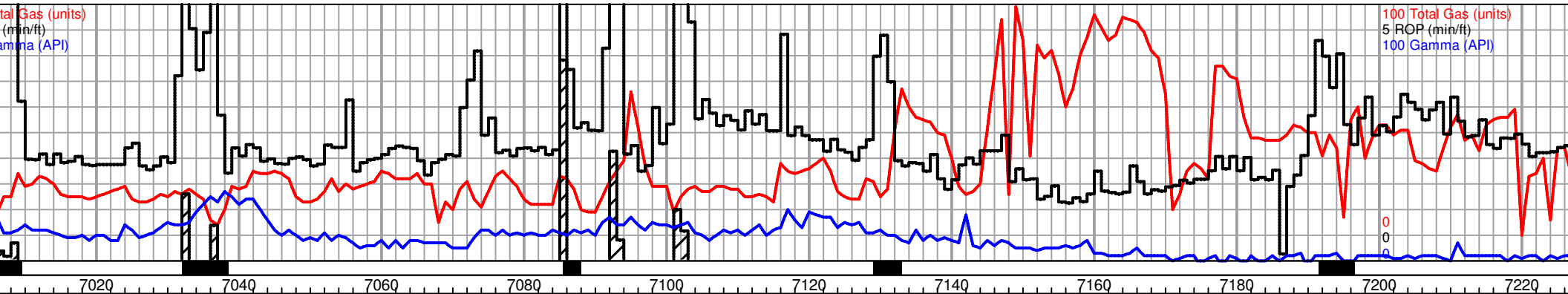


MD: 6,800.00 ft Incl: 90.00 Azi: 289.66 TVD: 4,454.98 ft	MD: 6,900.00 ft Incl: 90.00 Azi: 289.66 TVD: 4,454.98 ft	MD: 7,000.00 ft Incl: 90.00 Azi: 289.66 TVD: 4,454.98 ft
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MD: 6,790.00 ft Incl: 89.60 Azi: 288.10 TVD: 4,454.99 ft	MD: 6,813.00 ft Incl: 89.90 Azi: 288.30 TVD: 4,455.09 ft	MD: 6,844.00 ft Incl: 89.20 Azi: 288.10 TVD: 4,455.33 ft	MD: 6,875.00 ft Incl: 88.90 Azi: 288.10 TVD: 4,455.85 ft	MD: 6,906.00 ft Incl: 88.70 Azi: 288.30 TVD: 4,456.50 ft	MD: 6,937.00 ft Incl: 89.40 Azi: 290.80 TVD: 4,457.01 ft	MD: 6,968.00 ft Incl: 89.30 Azi: 290.10 TVD: 4,457.36 ft
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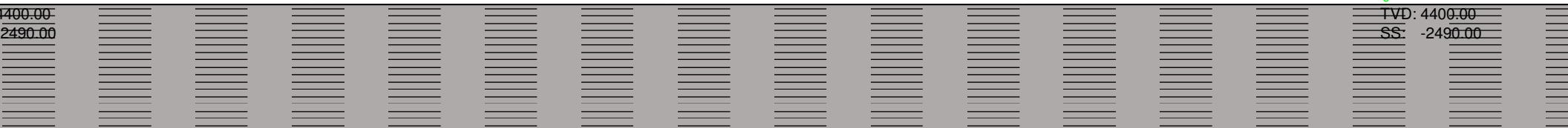
same as before	dolomite, white to cream, finely crushed to microcrystalline rhombic, spotty black gilsonitic staining, trace chert, spotty fluorescence, no cut	6960 sample, dolomite as before with some shales, gray, silty, micaceous, calcareous, some fossils, trace green waxy, trace brick red, silty, trace dolomite, tan, cryptocrystalline, surcrosic, very dense NOTE: I believe this is foreign, from pits or mud system?	6980 & 7000 samples, shale drops out, same dolomite as previous	dolomite as previous, light staining, increased chert, light gray to white, appx 20%	same as before
TVD: 4600.00 SS: -2690.00					TVD: 4 SS: -



MD: 7,100.00 ft
 Incl: 90.00
 Azi: 289.66
 TVD: 4,454.98 ft

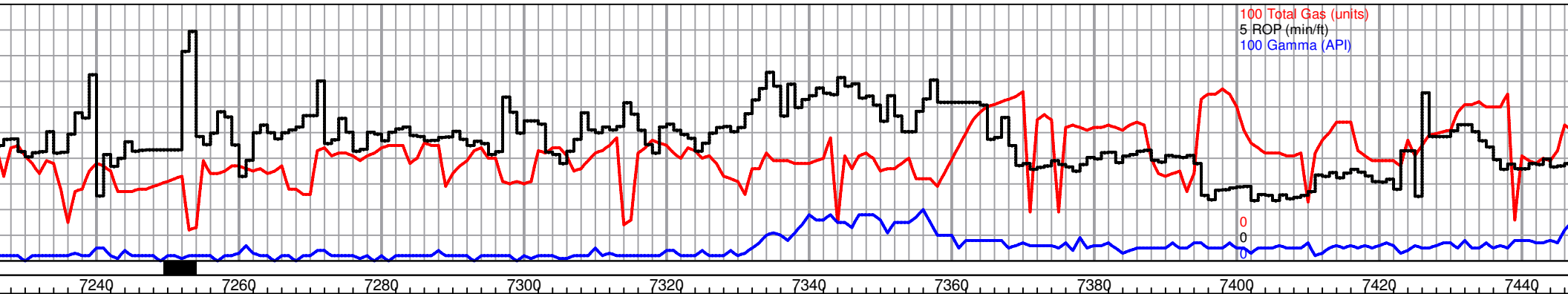
MD: 7,200.00 ft
 Incl: 90.00
 Azi: 289.66
 TVD: 4,454.98 ft

MD: 6,999.00 ft	MD: 7,029.00 ft	MD: 7,060.00 ft	MD: 7,091.00 ft	MD: 7,122.00 ft	MD: 7,153.00 ft	MD: 7,184.00 ft	MD: 7,215.00 ft
Incl: 89.70	Incl: 92.30	Incl: 93.50	Incl: 92.90	Incl: 92.80	Incl: 92.70	Incl: 92.20	Incl: 90.70
Azi: 289.70	Azi: 289.70	Azi: 289.90	Azi: 289.70	Azi: 290.10	Azi: 290.10	Azi: 290.20	Azi: 290.40
TVD: 4,457.63 ft	TVD: 4,457.11 ft	TVD: 4,455.54 ft	TVD: 4,453.81 ft	TVD: 4,452.27 ft	TVD: 4,450.78 ft	TVD: 4,449.46 ft	TVD: 4,448.00 ft

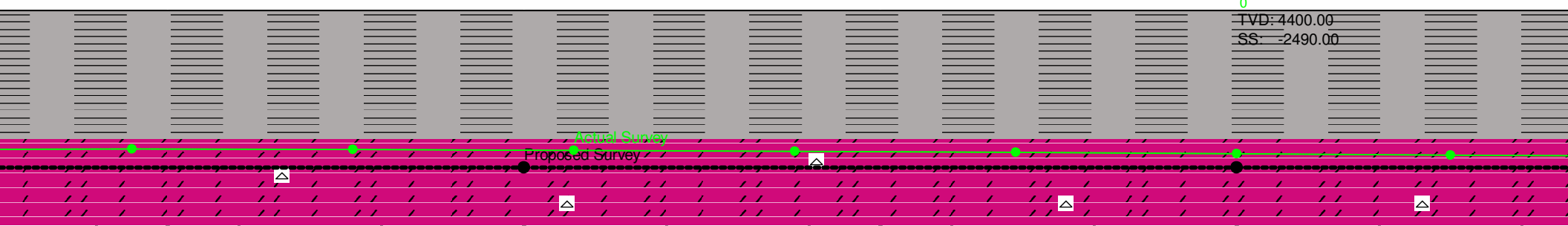


7100 - 7120 samples, white powdery dolomite with chert as before, slight increase in chert, marked increase in stain, fair even black staining, abundant gilsonite like residue, 7120 sample with fair even fluorescence, no odor, faint cut with halo	7140 - 7160 samples, very finely ground, slight increase in stain, faint odor, chert to dolomite ratio un-dicernable	beginning 7180 sample, dolomite, white to light gray, microcrystalline, fine ground but with some crystal definition, heavy black stain, sheen in wet cup, good odor, gassy, poor fluorescence, good cut, decreased chert from previous	7200 sample, marked decrease in show and odor	7220-7240 sample dolomite, white to light gray, microcrystalline, fine ground but with some fair crystal definition, heavy black stain, sheen in wet cup, poor fluorescence, faint to fair odor, good cut, some chert	same as
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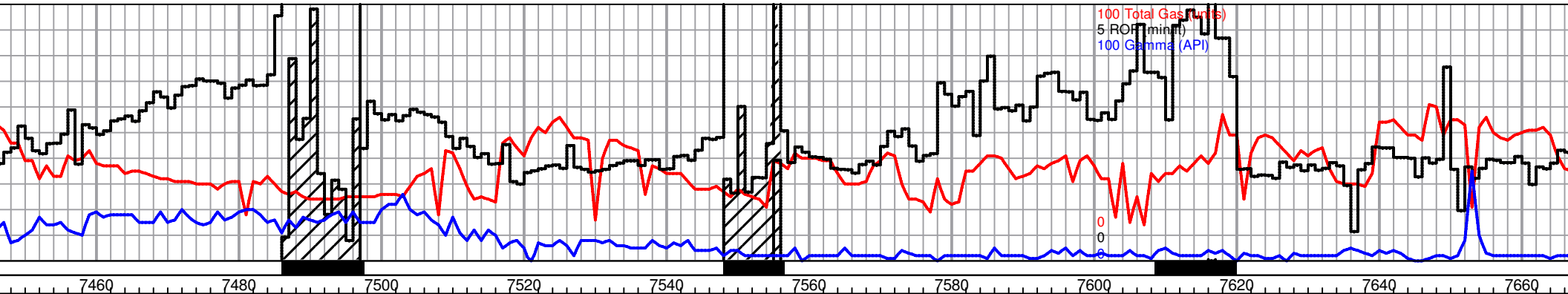
MD: 7,200.00 ft
 Incl: 90.00
 Azi: 289.66
 TVD: 4,454.98 ft



	MD: 7,300.00 ft Incl: 90.00 Azi: 289.66 TVD: 4,454.98 ft		MD: 7,400.00 ft Incl: 90.00 Azi: 289.66 TVD: 4,454.98 ft
00 ft	MD: 7,245.00 ft Incl: 90.10 Azi: 290.90 TVD: 4,448.46 ft	MD: 7,276.00 ft Incl: 89.40 Azi: 290.80 TVD: 4,448.60 ft	MD: 7,307.00 ft Incl: 89.30 Azi: 290.80 TVD: 4,448.95 ft
0			MD: 7,338.00 ft Incl: 89.30 Azi: 290.80 TVD: 4,449.33 ft
67 ft			MD: 7,369.00 ft Incl: 89.20 Azi: 291.30 TVD: 4,449.73 ft
			MD: 7,400.00 ft Incl: 89.20 Azi: 291.70 TVD: 4,450.17 ft
			MD: 7,430.00 ft Incl: 89.00 Azi: 291.80 TVD: 4,450.64 ft



s previous	7320 sample, as previous, slight increase in total staining and gilstonitic residue, still fair odor, noting increasing metal shavings in hole	same as previous, decreasing odor	7440 - 7480 sample, as before, marked decreasing stain, now poor to spotty staining, no odor, scattered bright mineral fluorescence
			TVD: 4600.00 SS: -2690.00



MD: 7,500.00 ft
 Incl: 90.00
 Azi: 289.66
 TVD: 4,454.98 ft

MD: 7,600.00 ft
 Incl: 90.00
 Azi: 289.66
 TVD: 4,454.98 ft

MD: 7,461.00 ft
 Incl: 89.60
 Azi: 292.20
 TVD: 4,451.02 ft

MD: 7,492.00 ft
 Incl: 91.40
 Azi: 292.40
 TVD: 4,450.75 ft

MD: 7,522.00 ft
 Incl: 92.00
 Azi: 293.20
 TVD: 4,449.86 ft

MD: 7,553.00 ft
 Incl: 91.30
 Azi: 292.20
 TVD: 4,448.96 ft

MD: 7,584.00 ft
 Incl: 91.30
 Azi: 292.00
 TVD: 4,448.26 ft

MD: 7,615.00 ft
 Incl: 90.80
 Azi: 290.60
 TVD: 4,447.69 ft

MD: 7,646.00 ft
 Incl: 90.70
 Azi: 290.20
 TVD: 4,447.29 ft



bit trip @ 7608 ft
 8/13/17

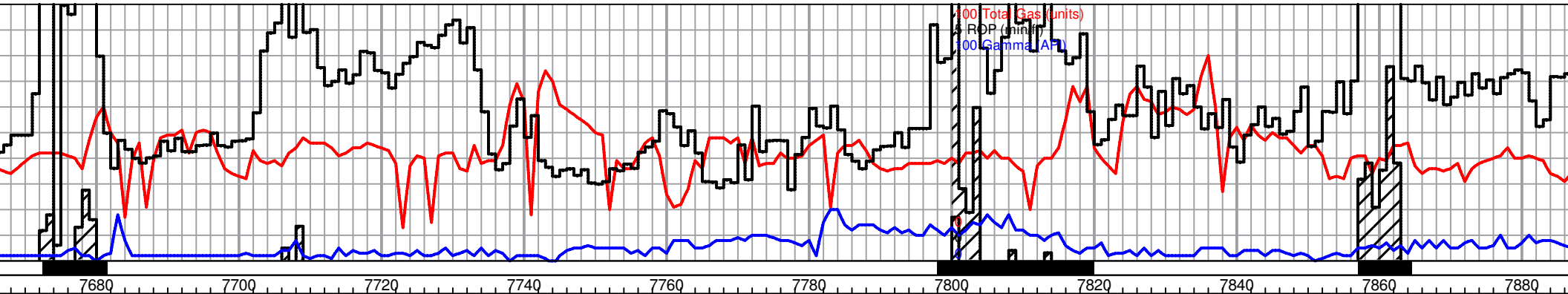
TVD: 4600.00
 SS: -2690.00

7500 and 7520 samples, very finely crushed/powdery white dolomite and light gray chert, appx 80/20, trace stain, no show free oil odor, no fluorescence

7540 sample, as previous, increase stain, still carrying abundant golden metal shavings in samples

7560 and 80 dolomite as previous, increased stain, deceased chert, fleeting odor, poor fluorescence - after resuming drilling, same thru 7640 sample with heavier stain

dolomite, white to light gray, fine powdery samples, lightly stained, fairly even bluish/white fluorescence, scattered cherts, scattered pale green soft shale



MD: 7,700.00 ft
 Incl: 90.00
 Azi: 289.66
 TVD: 4,454.98 ft

MD: 7,800.00 ft ^{1 survey}
 Incl: 90.00
 Azi: 289.66
 TVD: 4,454.98 ft

MD: 7,677.00 ft
 Incl: 89.20
 Azi: 290.10
 TVD: 4,447.31 ft

MD: 7,708.00 ft
 Incl: 89.00
 Azi: 290.10
 TVD: 4,447.80 ft

MD: 7,739.00 ft
 Incl: 89.20
 Azi: 289.40
 TVD: 4,448.29 ft

MD: 7,770.00 ft
 Incl: 89.10
 Azi: 289.70
 TVD: 4,448.75 ft

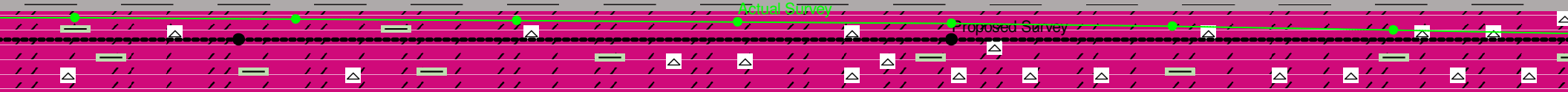
MD: 7,800.00 ft
 Incl: 88.50
 Azi: 289.50
 TVD: 4,449.38 ft

MD: 7,831.00 ft
 Incl: 88.00
 Azi: 289.90
 TVD: 4,450.32 ft

MD: 7,862.00 ft
 Incl: 87.10
 Azi: 289.00
 TVD: 4,451.65 ft

TVD: 4400.00
 SS: -2490.00

Geologist Jeremy Schwartz on location @ 1700hrs, 8/14/17



7720 - 7760 samples, dolomite, white to light gray, microcrystalline, some crystal definition, good black staining with gilsonitic residue, faint odor, spotty fluorescence, poor cut, some chert, appx. 5%, still carrying pale green shale

7780 sample, as previous, decreasing stain

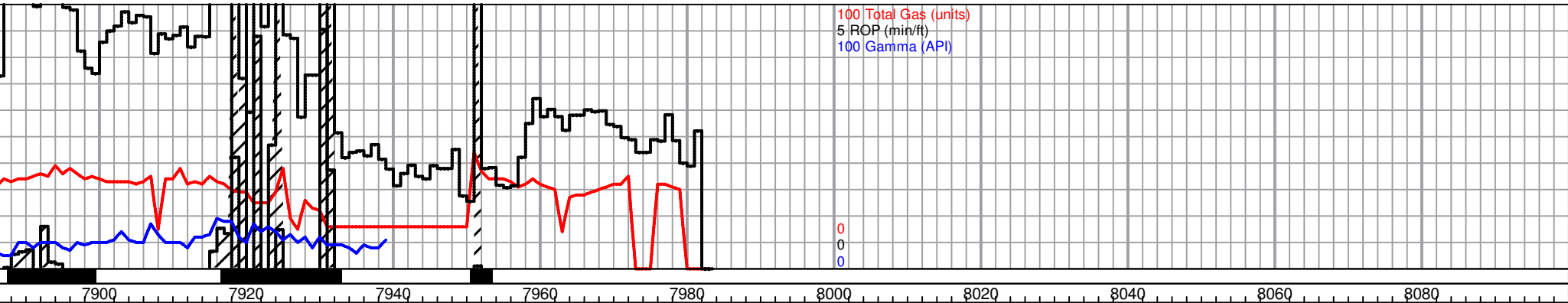
7800 sample, dolomite, white to light gray, crushed microcrystalline, some crystal definition, very uniform, light staining, some chert, decreasing pale green shales, poor fluorescence

Dolomite, white to light gray, very fine crushed micro-xln, some scattered sub-rhombic to rhombic crystal definition, most chips barren, some scattered with very scattered brown to black stain, few chips with very light brown even stain, slight influp white chert, trace pale green shales, trace poor dull yellow to white fluor., no odor

7860' sample lagged back ~7835' Dolomite as previous with decrease in chert, most dolomite with scattered to very scattered brown to wet black stain, some very small good rhombic chips with saturated light brown stain, trace pale green shales, **VSSFO**, some very scattered bright white to yellow fluor., good odor

Dolomite with some scattered chert as previous, trace pale green shales, NSFO, scattered dull yellow to white fluor., fair odor

TVD: 4600.00
 SS: -2690.00



100 Total Gas (units)
 5 ROP (min/ft)
 100 Gamma (API)

0
 0
 0

MD: 7,900.00 ft
 Incl: 90.00
 Azi: 289.66
 TVD: 4,454.98 ft

MD: 8,000.00 ft
 Incl: 90.00
 Azi: 289.66
 TVD: 4,454.98 ft

MD: 7,893.00 ft
 Incl: 87.10
 Azi: 288.70
 TVD: 4,453.22 ft

MD: 7,924.00 ft
 Incl: 87.40
 Azi: 288.80
 TVD: 4,454.70 ft

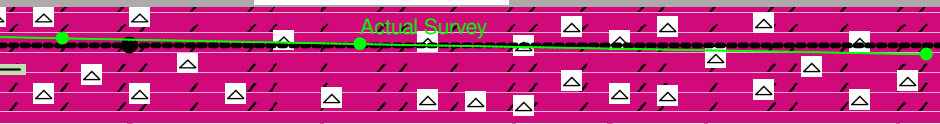
MD: 7,983.00 ft
 Incl: 87.40
 Azi: 288.80
 TVD: 4,457.38 ft

1 survey
 0
 TVD: 4400.00
 SS: -2490.00

****Continue Drilling to 7983' MD to avoid down time while waiting on loggers ETA****

Decision made to call TD @ 7929' MD 8/15/17

TD of 7983' MD reached @ 1444hrs 8/15/17
Begin process of conditioning the hole and preparing for logs.
Logging Operations Complete @ 1144hrs, 8/17/17
Geologist Jeremy Schwartz off location @ 1320hrs, 8/17/17



Dolomite as previous with shows slightly dropping out and slight influx chert, 7920' sample still influx chert (~60d/40c), some very scattered staining on dolomite, trace pale green shales, NSFO, scattered dull fluor., no odor

Dolomite and chert as previous, chert slightly increasing in 7940-7980' samples to eventual ~50/50 mix, some very scattered dolomite with trace to very scattered stain, trace pale green shale, NSFO, very scattered dull fluor., no odor

TVD: 4600.00
 SS: -2690.00

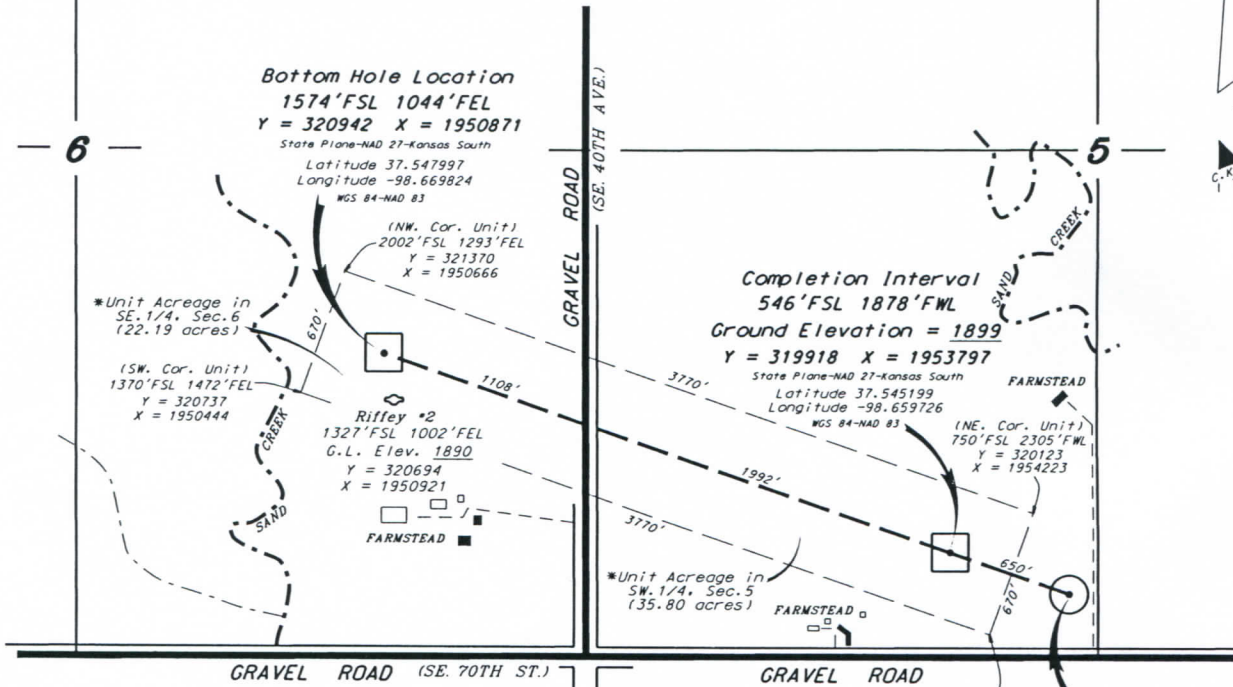
**SHELBY RESOURCES, LLC
REECE-RIFFEY LEASE
SECTION 5 & 6, T29S, R12W
PRATT COUNTY, KANSAS**

GRAVEL ROAD (SE. 60TH ST.) GRAVEL ROAD

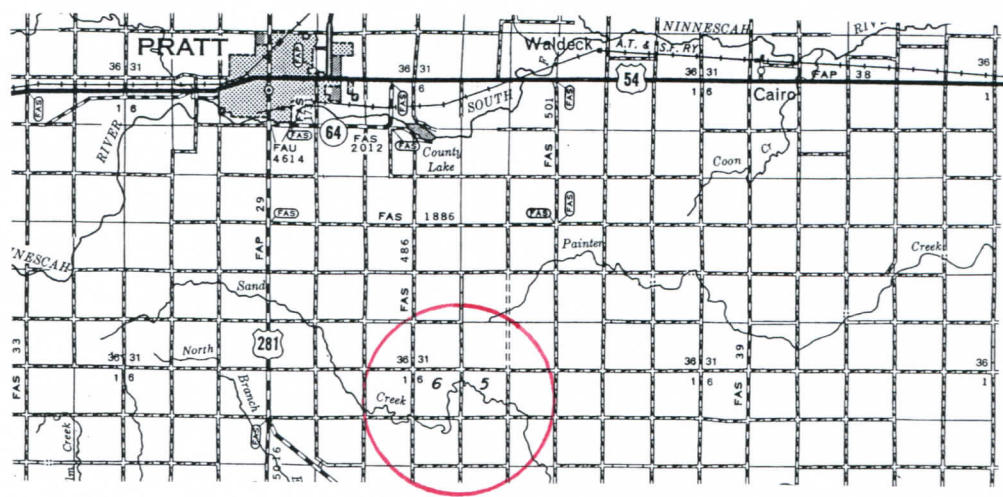
Notes:

1. Set (3) tall wood stakes at surface location site.
2. All flagging Red & Yellow.
3. Overhead power available at N., S., E. & W. lines, Sec.5.
4. Kansas One Call System Inc. should be notified before excavation (1-800-344-7233).
5. CAUTION; Various pipelines in Sec.5.
6. Contact landowner for best access and as to location of wood stakes in wheat.

SCALE 1" = 1000'



*Ingress and egress to location as shown on this plot is per usage only and may not be legally opened for public use. Contact landowner, tenant and county road department for access.



* Controlling data is based upon the best maps and photographs available to us and upon a regular section of land containing 640 acres.
 * Approximate section lines were determined using the normal standard of care of oilfield surveyors practicing in the state of Kansas. The section corners, which establish the precise section lines, were not necessarily located, and the exact location of the drillsite location in the section is not guaranteed. Therefore, the operator securing this service and accepting this plot and all other parties relying thereon agree to hold Central Kansas Oilfield Services, Inc., its officers and employees harmless from all losses, costs and expenses and said entities released from any liability from incidental or consequential damages.
 * Elevations derived from National Geodetic Vertical Datum.

Date August 30, 2017