NNE_Boggess_13H–Job Summary

27th June 2019

Prepared by: **Dmitry Avdeev**

DRILLING RATIONS

X

DRILLING SOLUTIONS

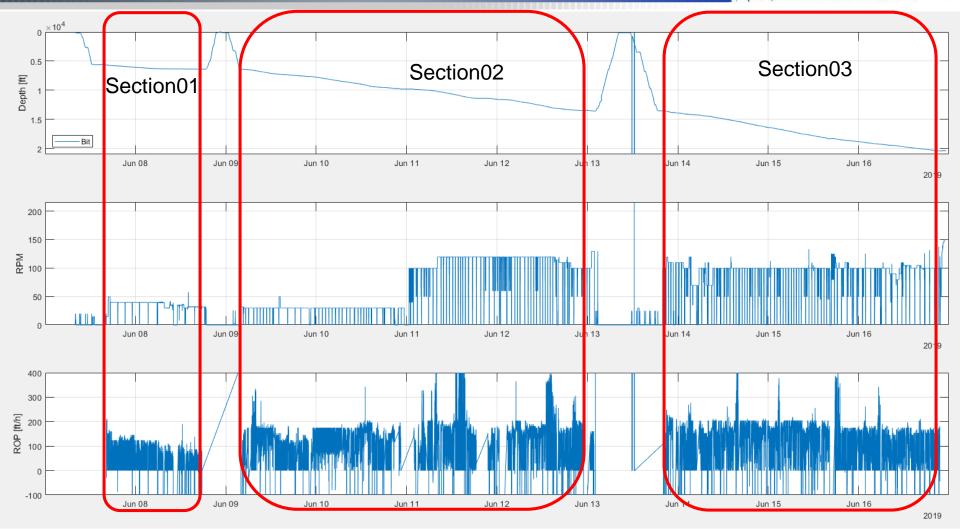
DRILLING



- Section 01 (vertical)
 - Pass01 (drill)
- Section 02 (vertical, curve, lateral)
 - Pass01 (vertical+curve, drill)
 - Pass02 (lateral, drill)
- Section 03 (lateral)
 - Pass01 (lateral, drill)
 - Pass02 (lateral, drill)



NNE_Boggess_13H– Job Summary. Sections.



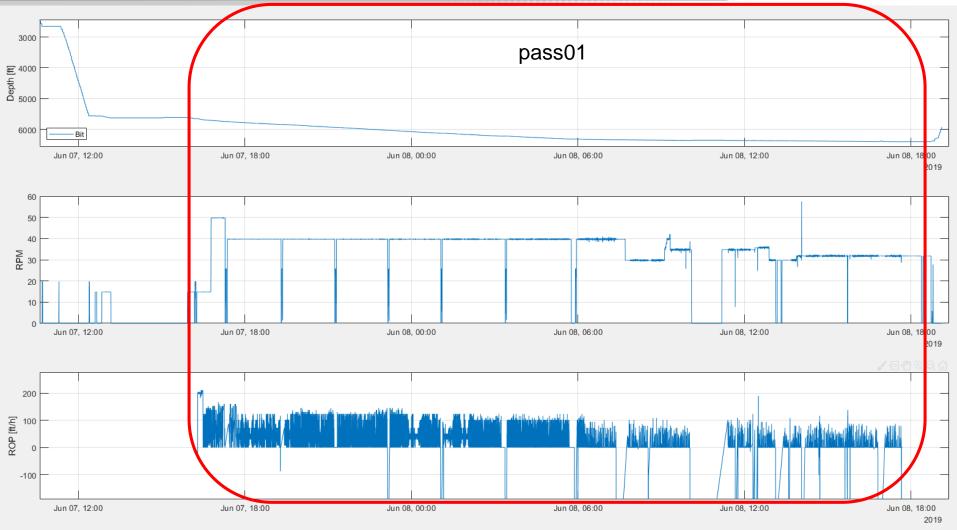


NNE_Boggess_13H– Job Summary. Section01.

- Section 01 (vertical)
 - Pass01 (drill)



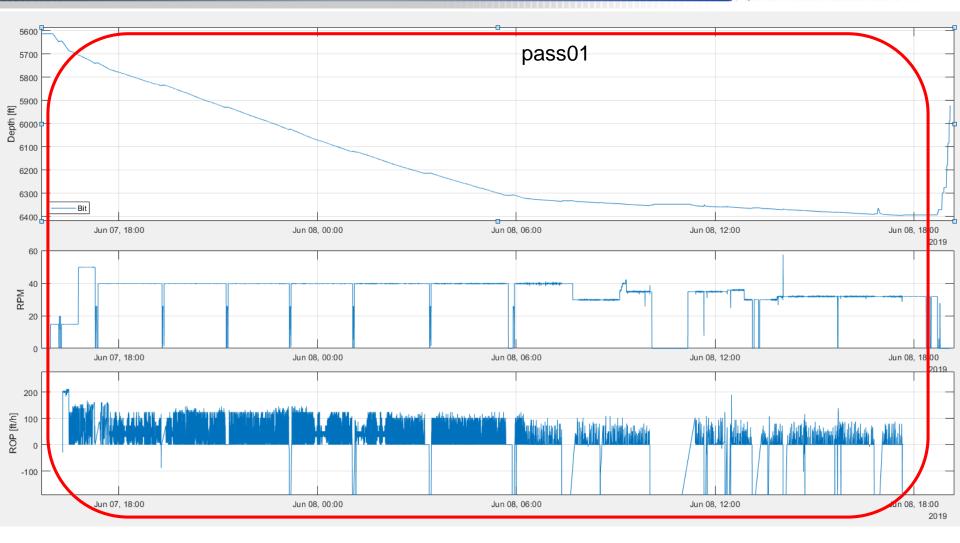
NNE_Boggess_13H– Job Summary. Section01. Pass01.





⁵ Customer provided data, not acquired by PetroMar

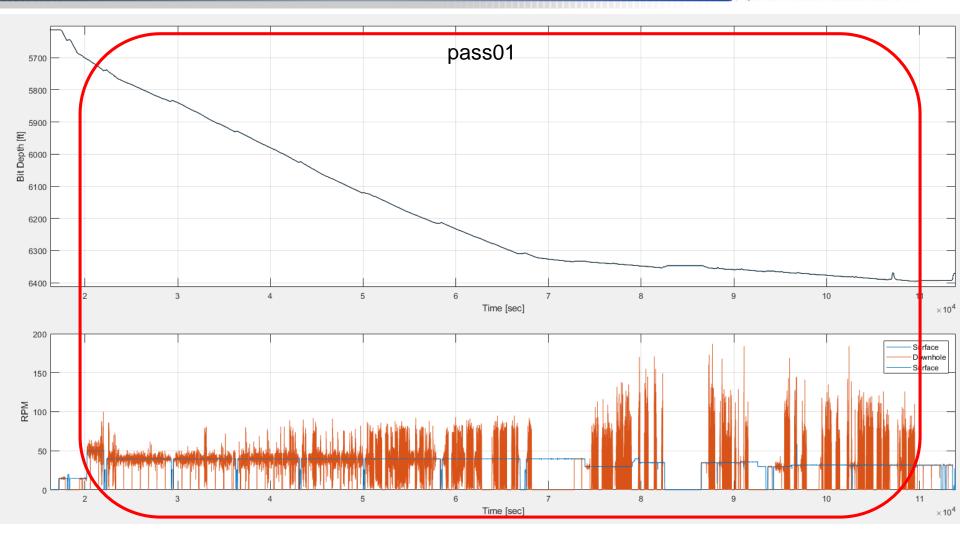
NNE_Boggess_13H– Job Summary. Section01. Pass01.





⁶ Customer provided data, not acquired by PetroMar

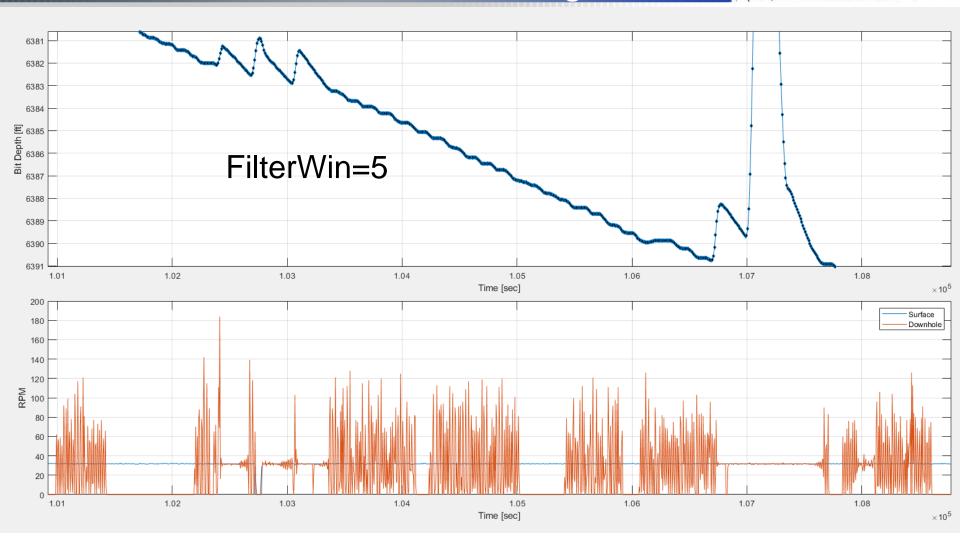
NNE_Boggess_13H– Job Summary. Section01. Pass01.





⁷ Customer provided data, not acquired by PetroMar, included

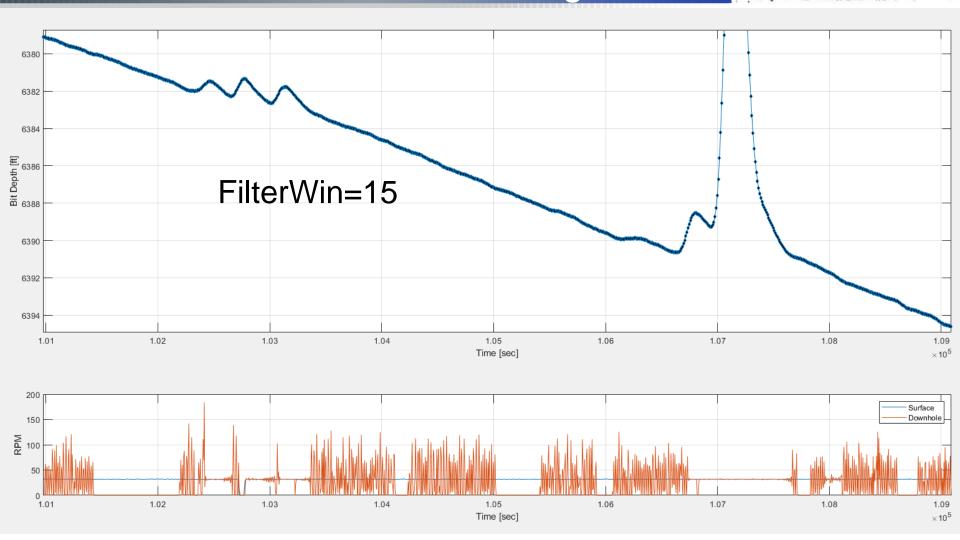
NNE_Boggess_13H– Job Summary. Section01. Pass01. Stair Casing.





⁸ Customer provided data, not acquired by PetroMar, included

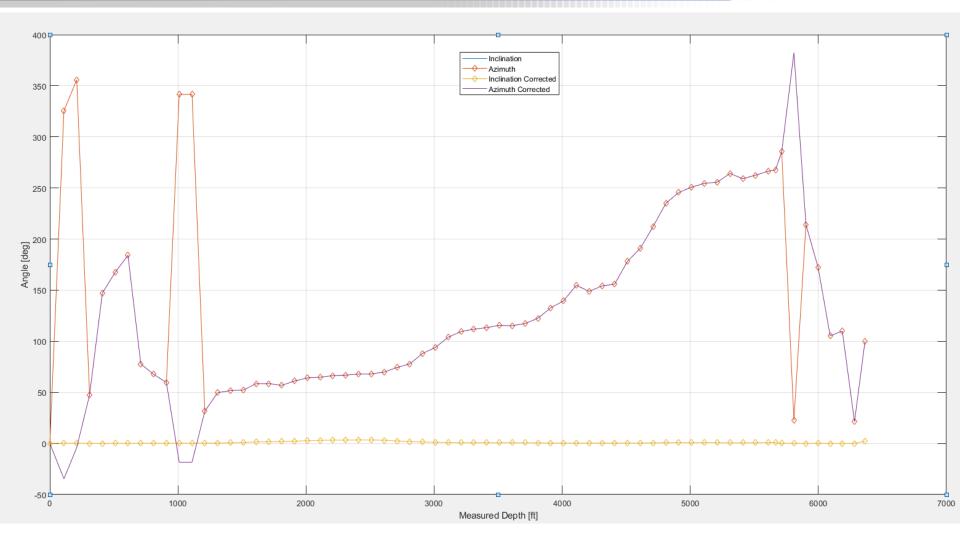
NNE_Boggess_13H– Job Summary. Section01. Pass01. Stair Casing.





⁹ Customer provided data, not acquired by PetroMar, included

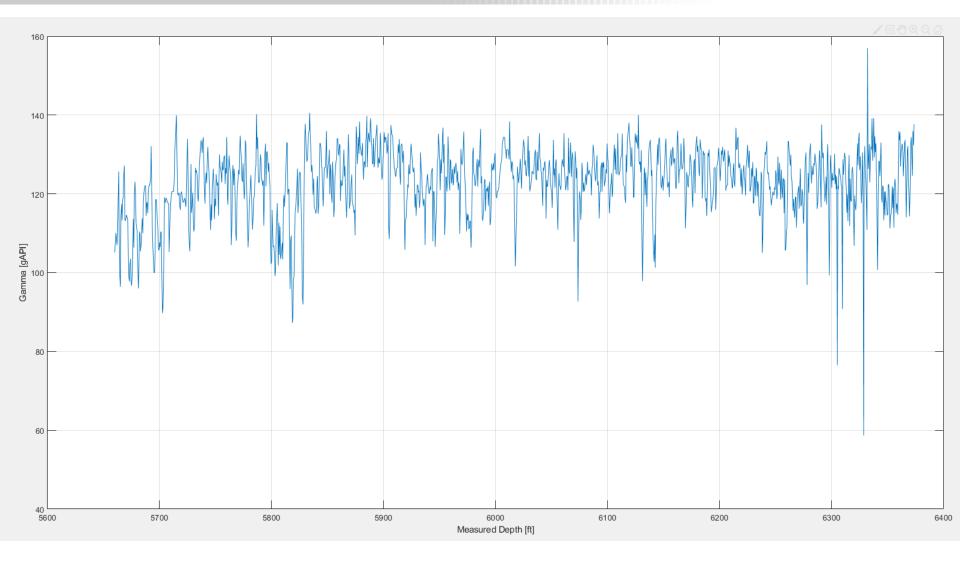
NNE_Boggess_13H– Job Summary. Section01. Inclination & Azimuth.





¹⁰ Customer provided data, not acquired by PetroMar

NNE_Boggess_13H– Job Summary. Section01. Gamma API (GRC_D).



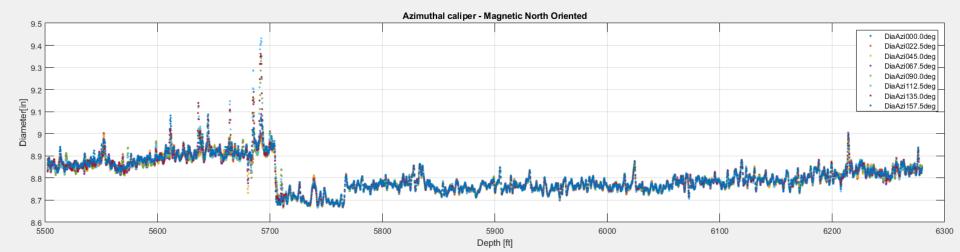


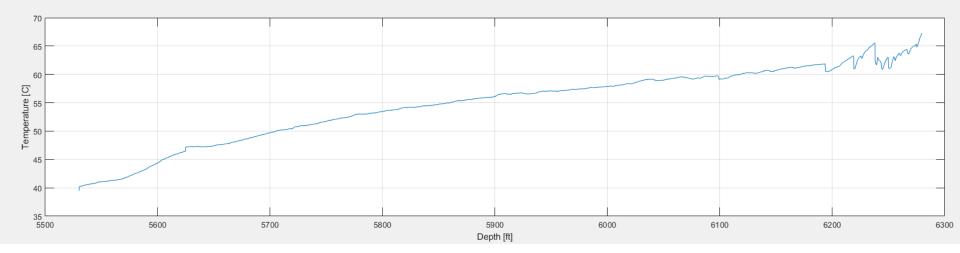
¹¹ Customer provided, not acquired by PetroMar

- FV Sensor at 5,502 to 6,280 ft
- FV Sensor to Bit Distance ~ 115.8 ft
- Severe Stick-Slip



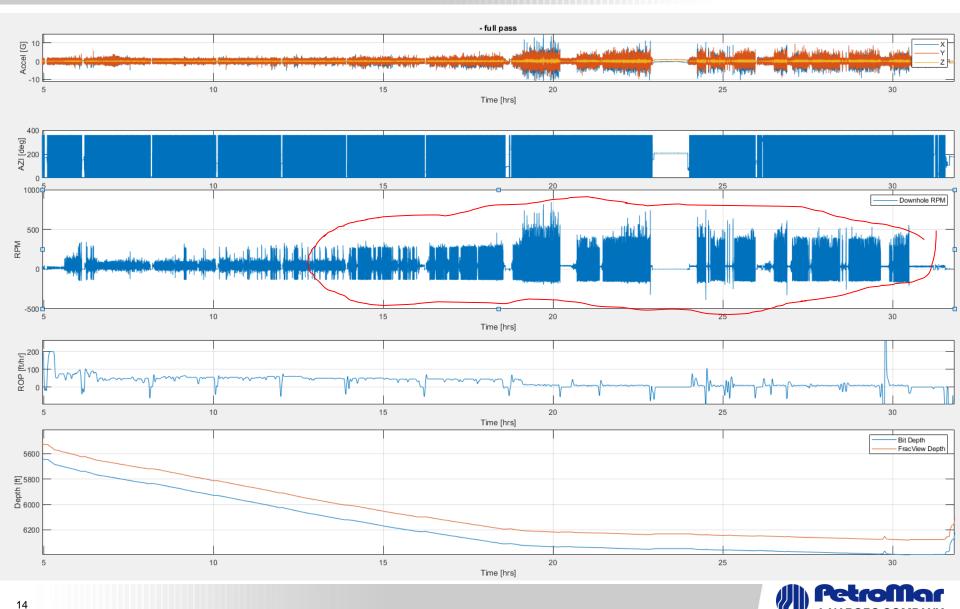
NNE_Boggess_13H– Job Summary. Section01. Pass01. Azimuthal Calipers.





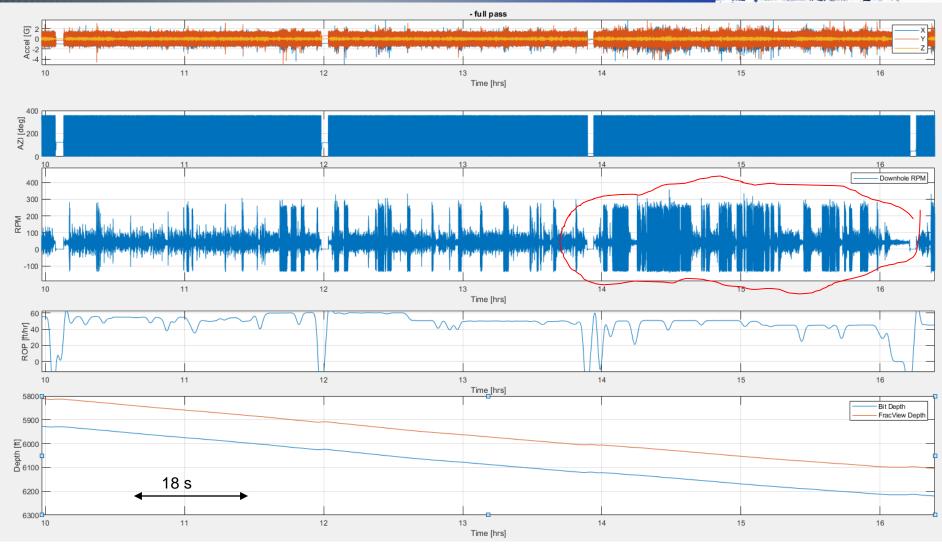


NNE_Boggess_13H– Job Summary. Section01. Pass01. Motion Dynamics.



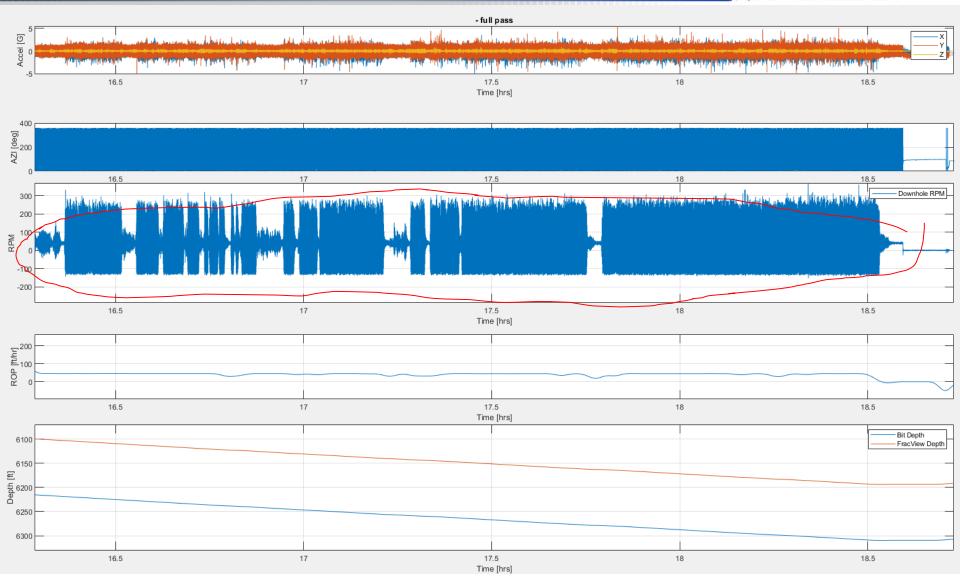
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NNE_Boggess_13H– Job Summary. Section01. Pass01. Motion Dynamics (Stick Slip zoom



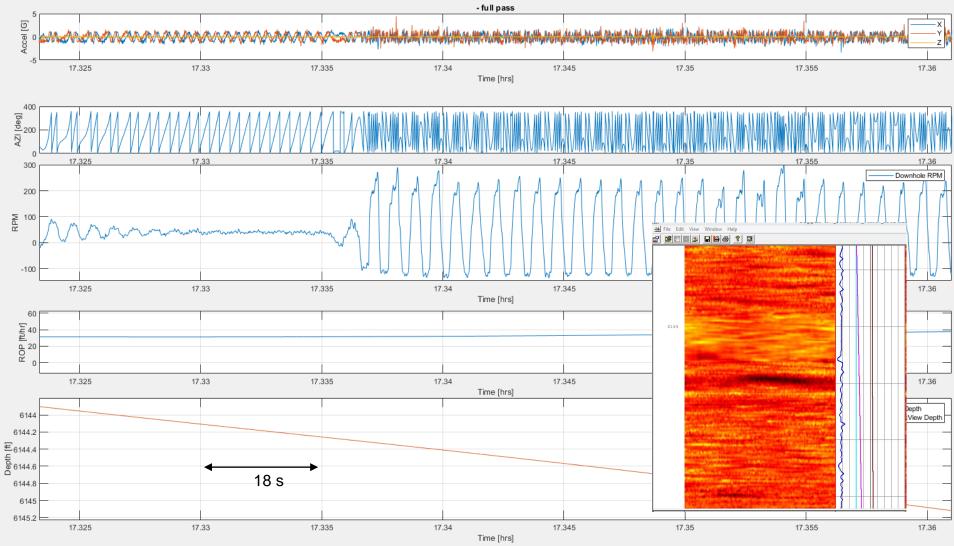


NNE_Boggess_13H– Job Summary. Section01. Pass01. Motion Dynamics (Stick Slip zoom

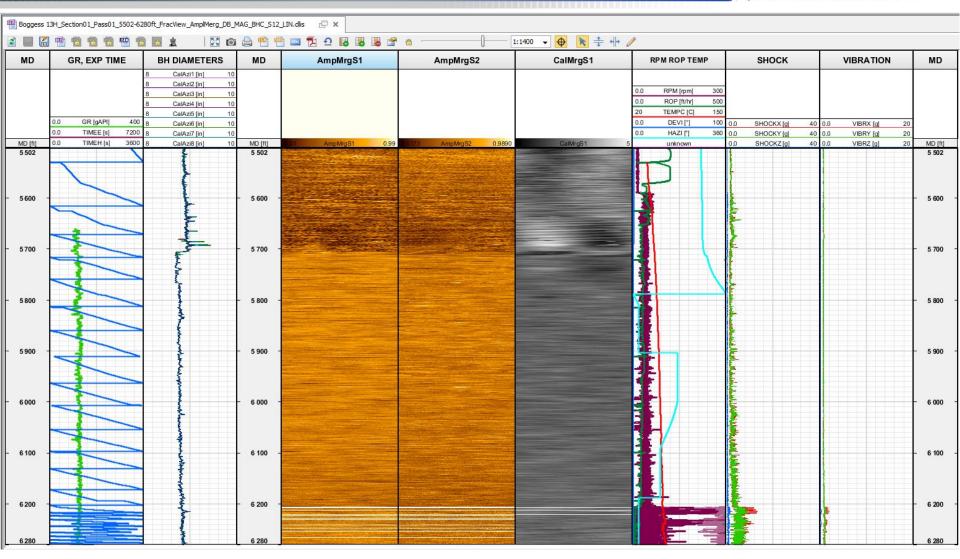




NNE_Boggess_13H– Job Summary. Section01. Pass01. Motion Dynamics (Stick Slip zoom

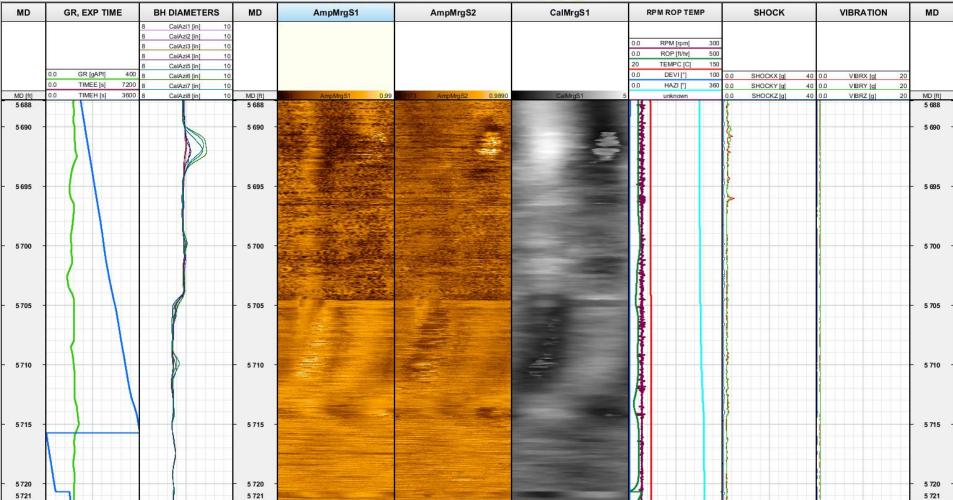






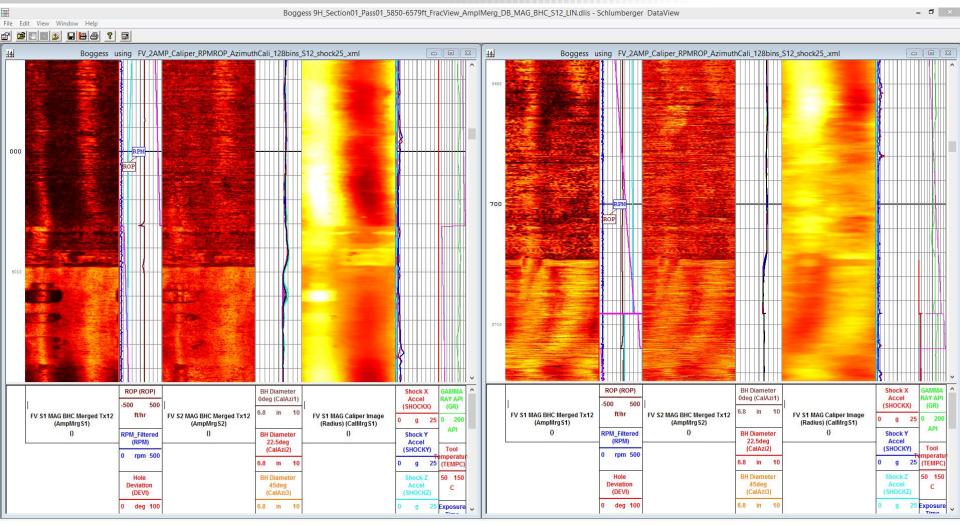


🖷 Boggess 13H_Section01_Pass01_5502-6280ft_FracView_AmplMerg_DB_MAG_BHC_S12_LIN.dlis 👘 🚽 🗙





NNE_Boggess_13H– Job Summary. Section01. Pass01. 13H vs 9H



9H

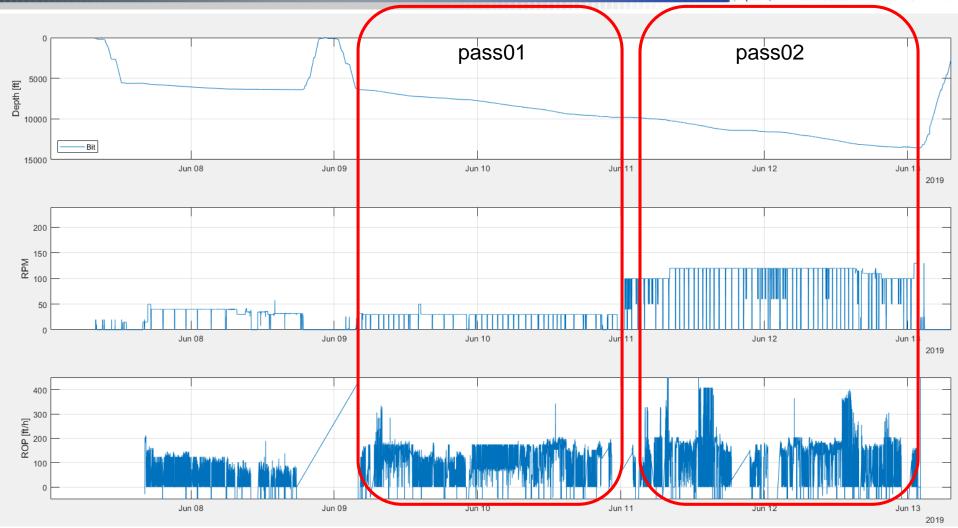




- Section 02 (vertical, curve, lateral)
 - Pass01 (vertical+curve, drill)
 - Pass02 (lateral, drill)



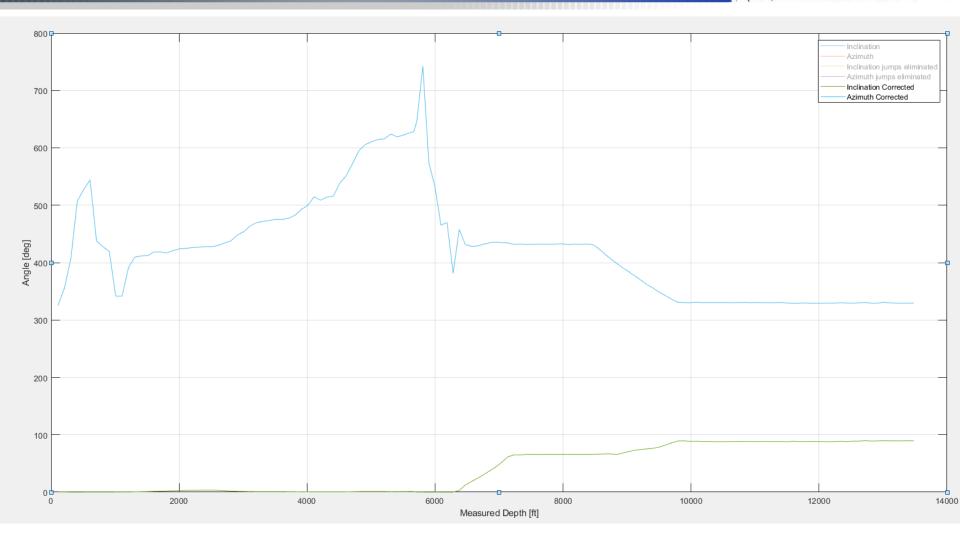
NNE_Boggess_13H– Job Summary. Section02. Pass01 & 02





²² Customer provided data, not acquired by PetroMar

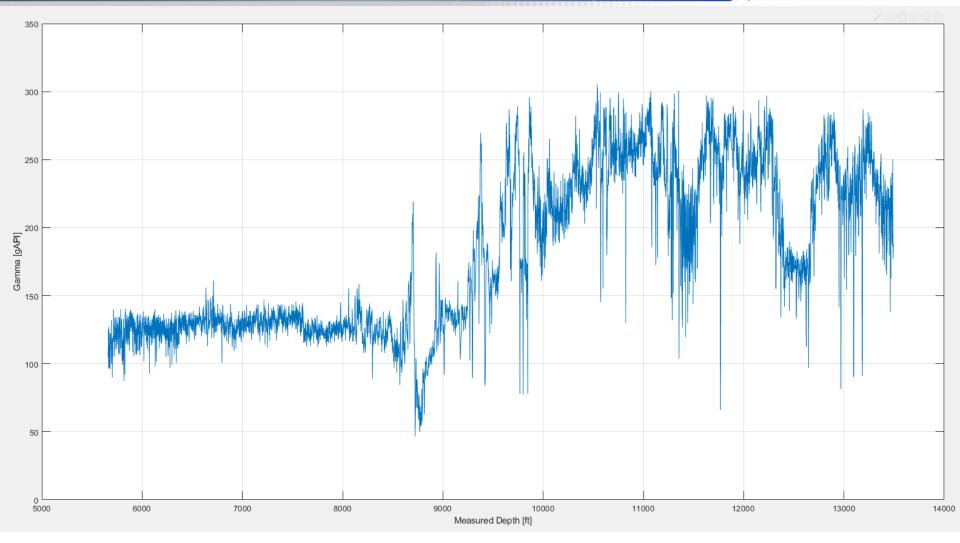
NNE_Boggess_13H– Job Summary. Section02. Inclination & Azimuth.





²³ Customer provided data, not acquired by PetroMar

NNE_Boggess_13H– Job Summary. Section02. Gamma API (GRC_D).





²⁴ Customer provided, not acquired by PetroMar

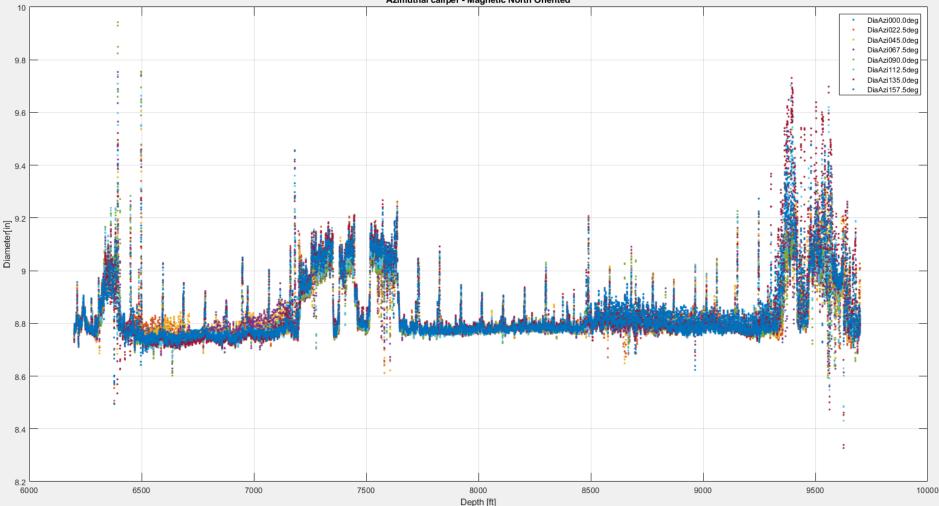
NNE_Boggess_13H– Job Summary. Section 02. Pass01 (vertical+curve, drill)

- FV Sensor at 6,200 to 9,700 ft
- FV Sensor to Bit Distance ~ 115.85 ft
- Stick-Slip



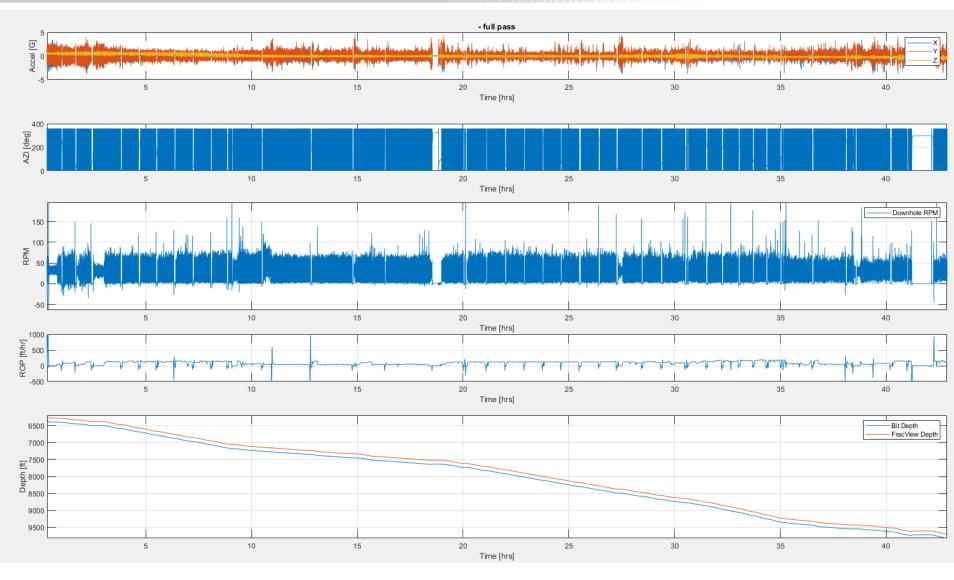
NNE_Boggess_13H– Job Summary. Section02. Pass01. Azimuthal Calipers.

Azimuthal caliper - Magnetic North Oriented



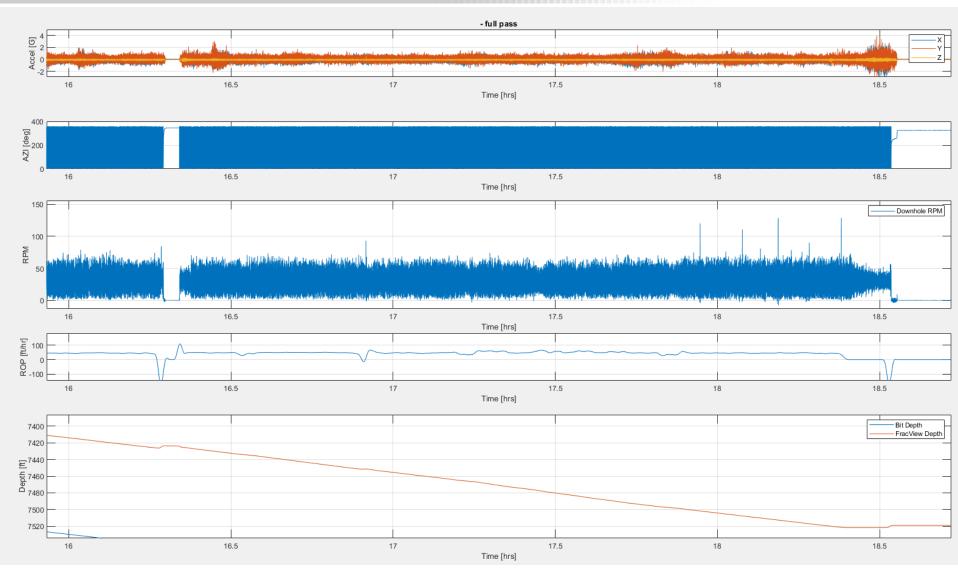


NNE_Boggess_13H– Job Summary. Section02. Pass01. Motion Dynamics.



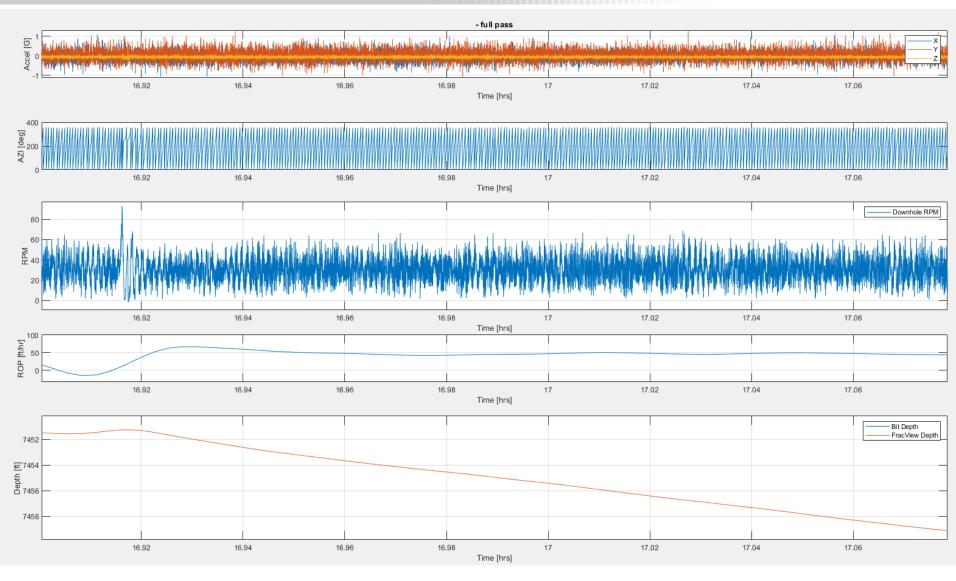


NNE_Boggess_13H– Job Summary. Section02. Pass01. Motion Dynamics (zoom in).

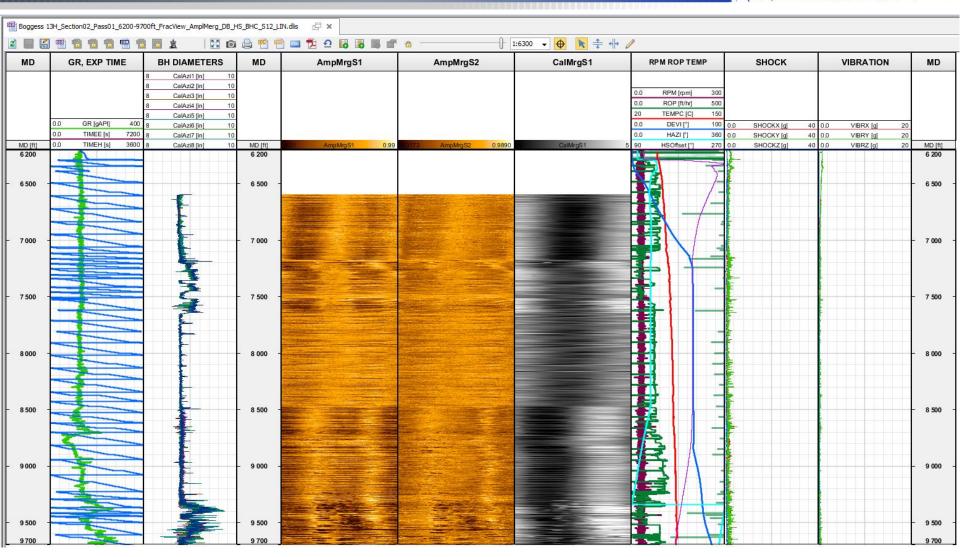




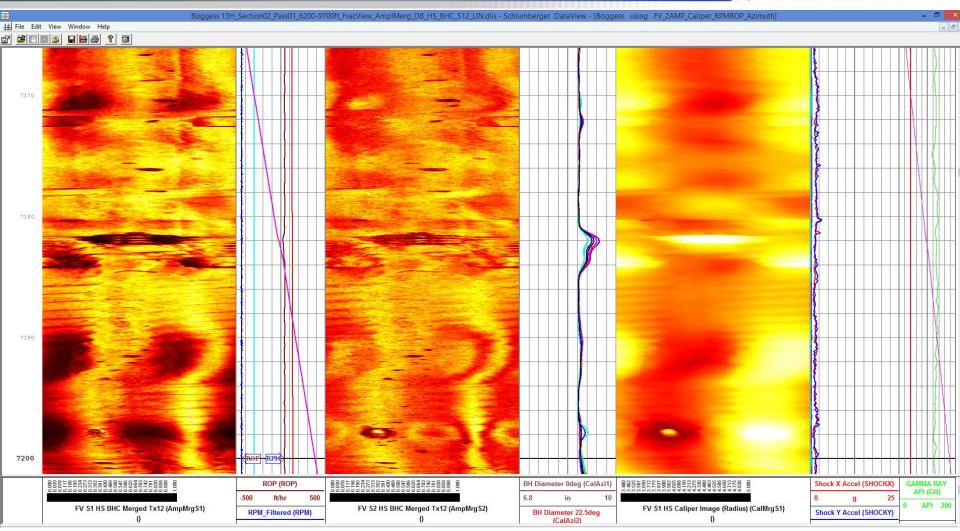
NNE_Boggess_13H– Job Summary. Section02. Pass01. Motion Dynamics (zoom in)







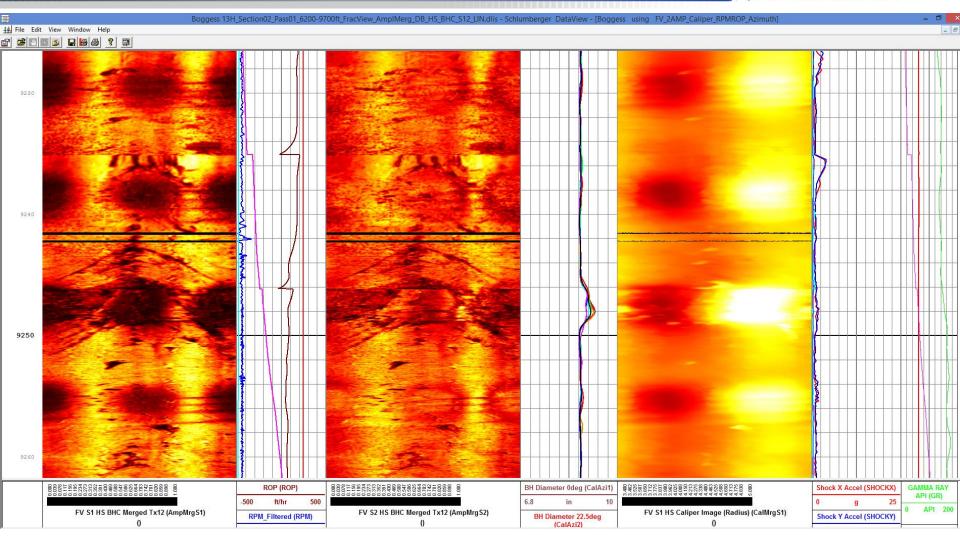






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Places File Day	FV S1 HS BHC Merged Tx12 (AmpMrgS1) ()	RPM_Filtered (RPM)	FV S2 HS BHC Merged Tx12 (AmpMrgS2) ()	BH Diameter 22.5deg (CalAzi2)	FV S1 HS Caliper Image (Radius) (CalMrgS1) ()	Shock Y Accel (SHOCKY)	0 API 200



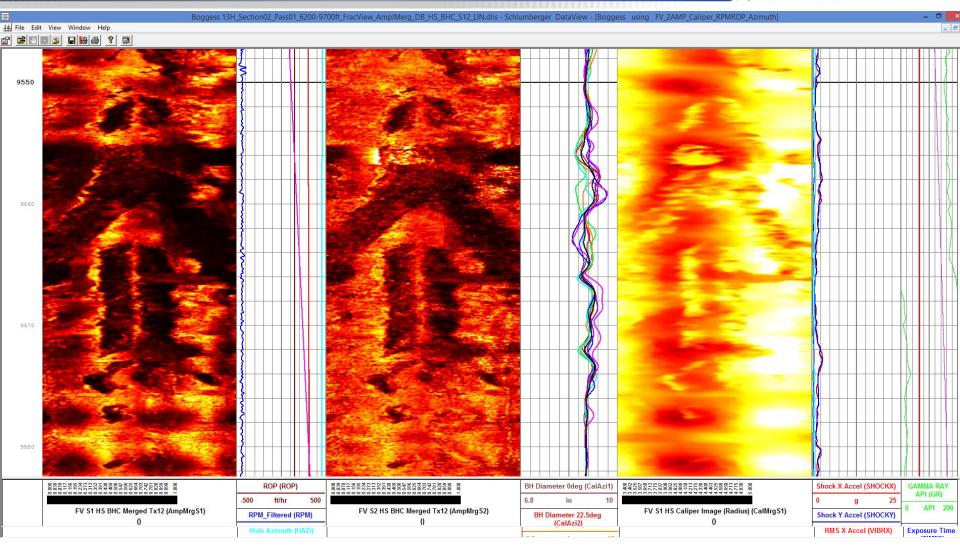




9280 9290 9300 400 (2010) (2010 ROP (ROP BH Diameter 0deg (CalAzi1) Shock X Accel (SHOCKX) SAMMA RAY API (GR) 500 6.8 10 500 ft/h in 25 g API 200 FV S1 HS BHC Merged Tx12 (AmpMrgS1) FV S2 HS BHC Merged Tx12 (AmpMrgS2) FV S1 HS Caliper Image (Radius) (CalMrgS1) **RPM_Filtered (RPM)** BH Diameter 22.5deg Shock Y Accel (SHOCKY) 1 () (CalAzi2) ()



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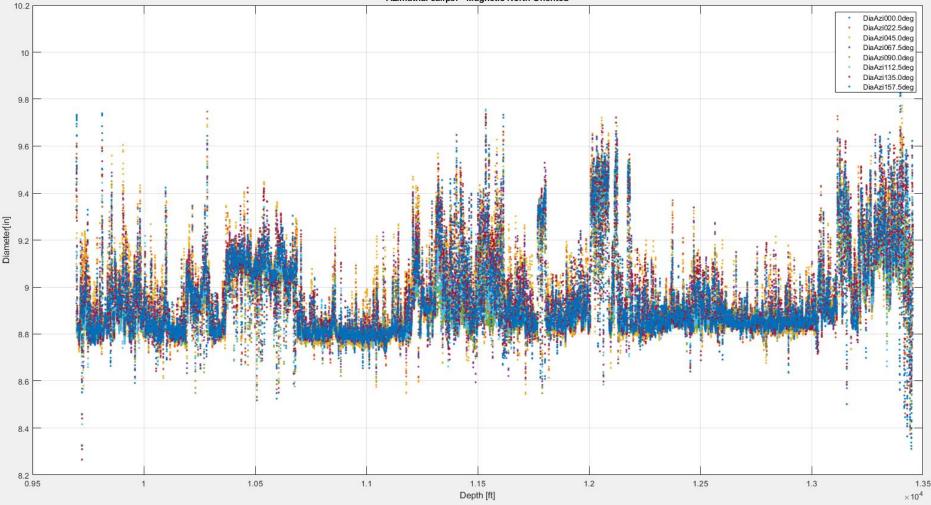


- FV Sensor at 9,697 to 13,456 ft
- FV Sensor to Bit Distance ~ 115.85 ft
- Some Stick-Slip



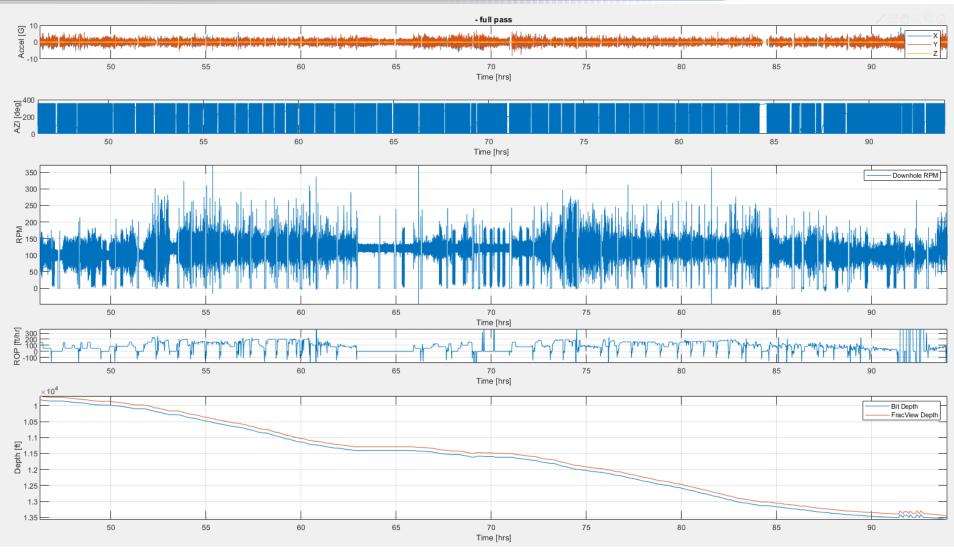
NNE_Boggess_13H– Job Summary. Section02. Pass02. Azimuthal Calipers.



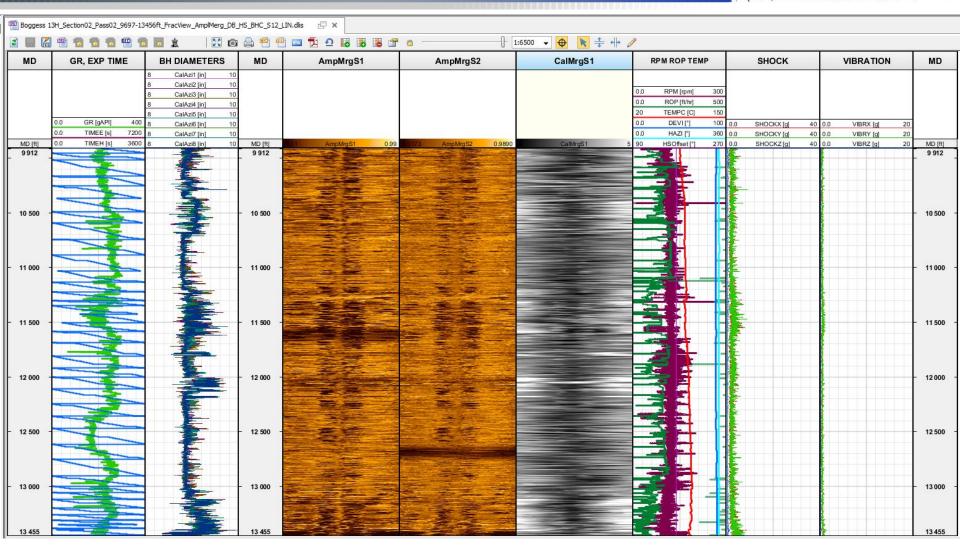




NNE_Boggess_13H– Job Summary. Section02. Pass02. Motion Dynamics.



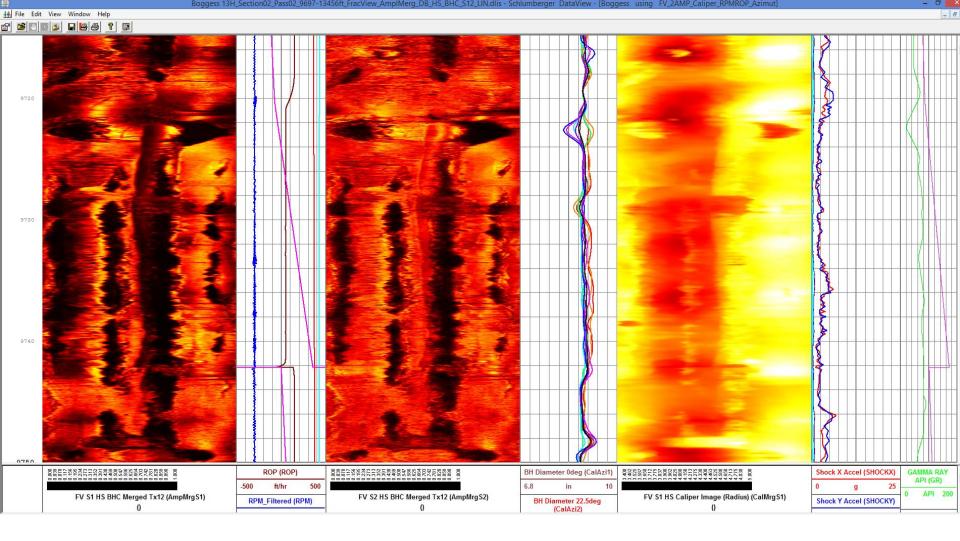




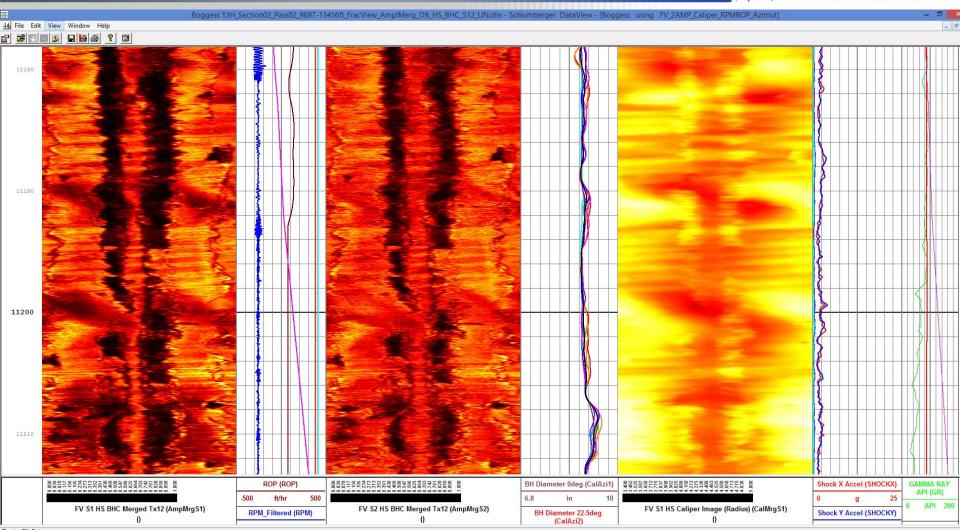


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	FV S1 HS BHC Merged Tx12 (AmpMrgS1) ()	RPM_Filtered (RPM)	FV S2 HS BHC Merged Tx12 (AmpMrgS2) ()	BH Diameter 22.5deg	FV S1 HS Caliper Image (Radius) (CalMrgS1) ()	Shock Y Accel (SHOCKY)	0 API 200
P	V	1	V	(CalAzi2)	V V		

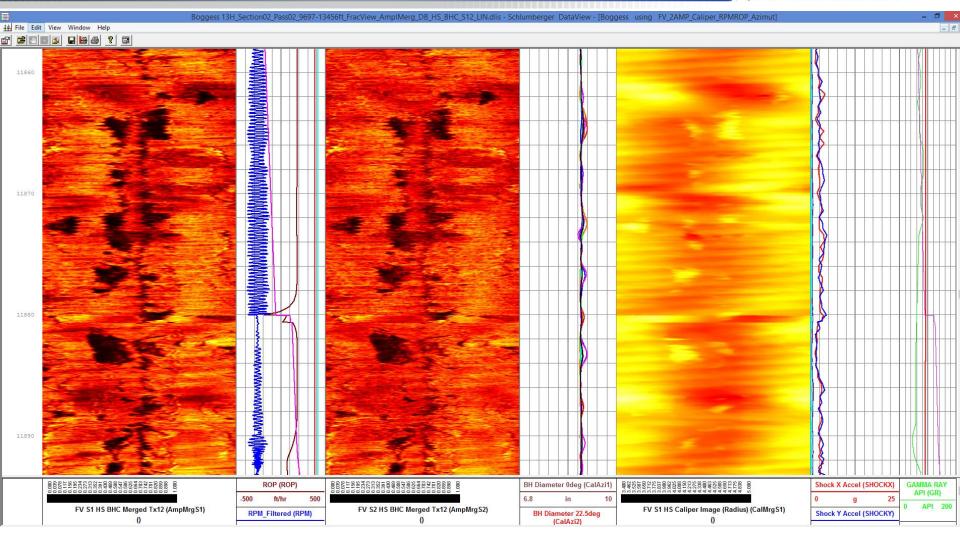




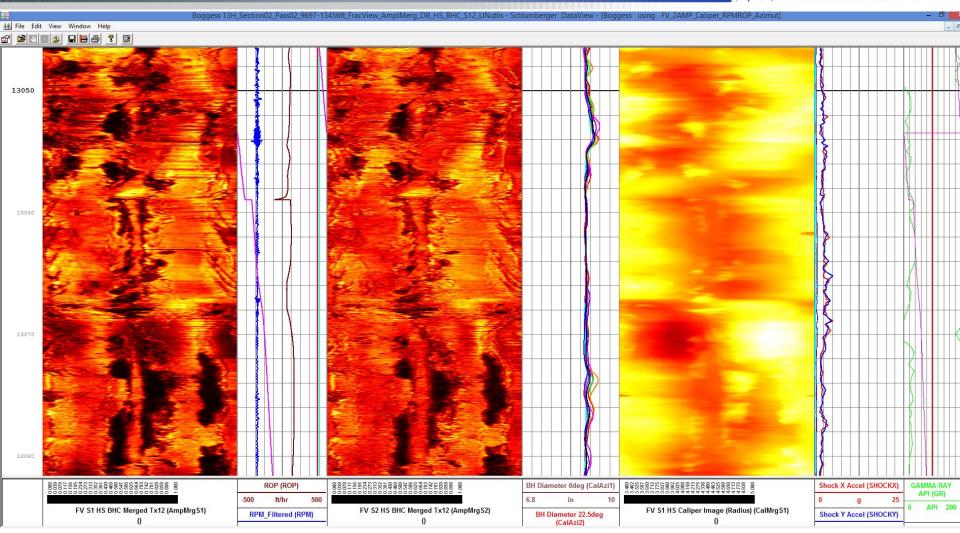




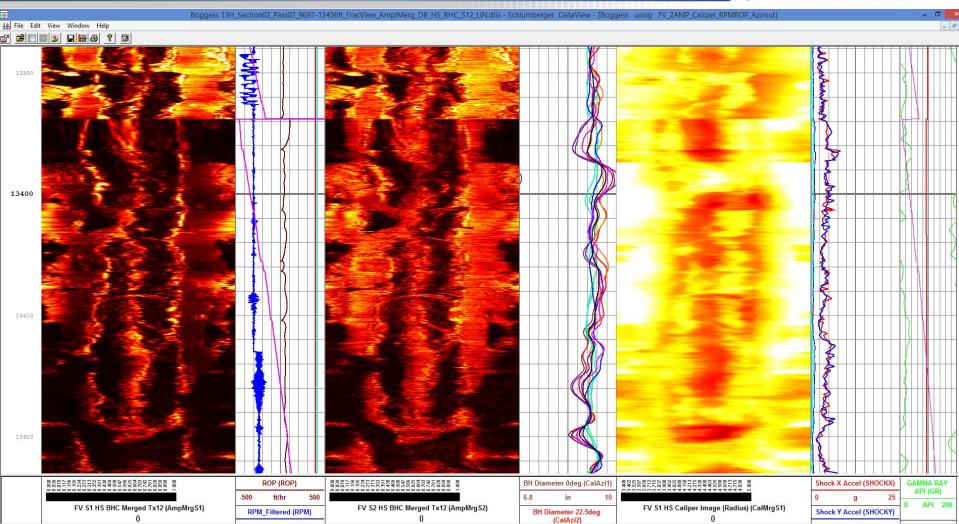












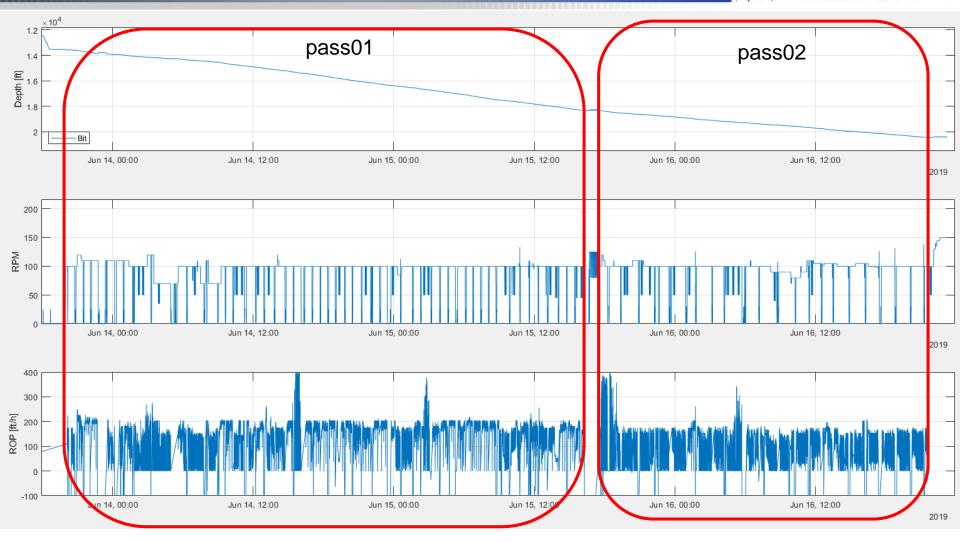


NNE_Boggess_13H– Job Summary. Section03.

- Section 03 (lateral)
 - Pass01 (drill)
 - Pass02 (drill)



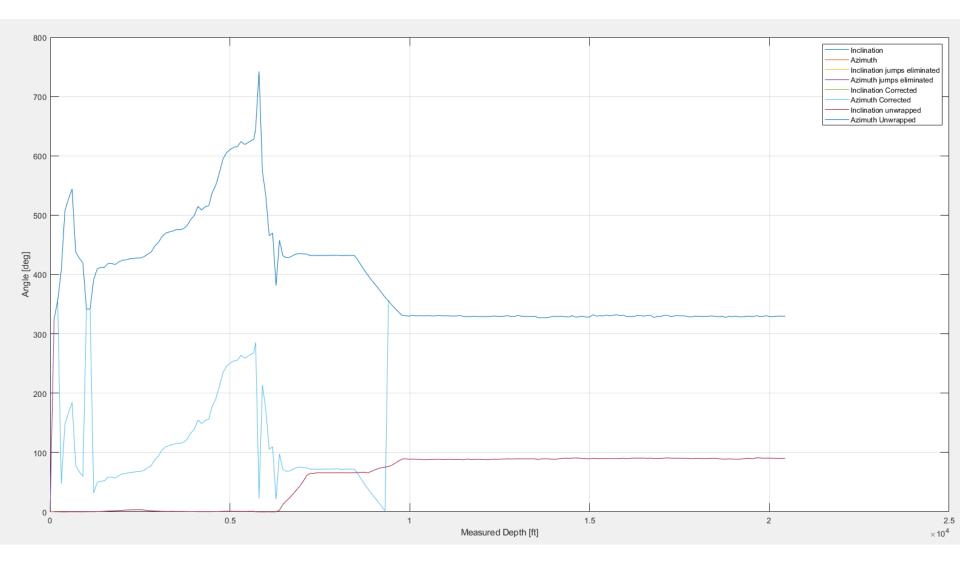
NNE_Boggess_13H– Job Summary. Section03. Pass01 & 02





⁴⁷ Customer provided data, not acquired by PetroMar

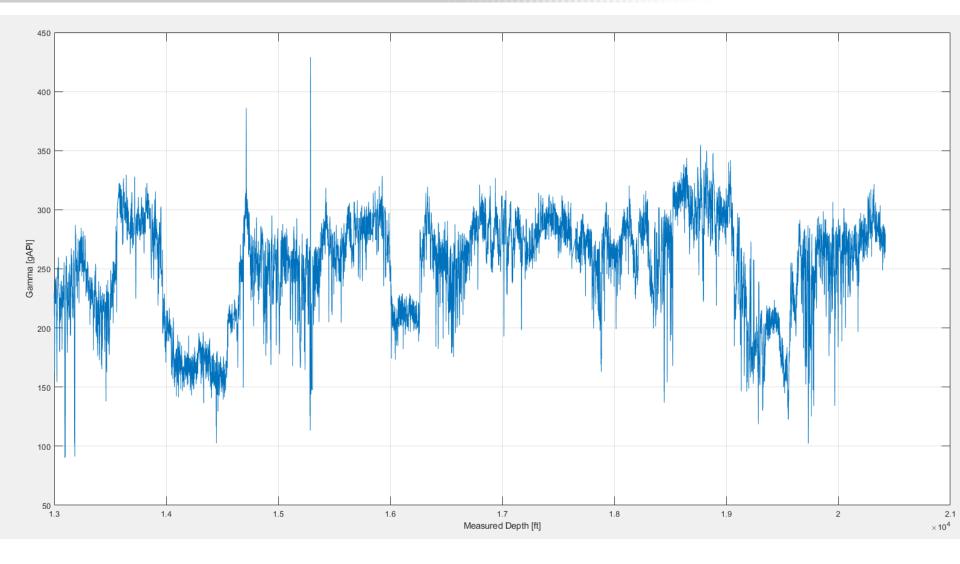
NNE_Boggess_13H– Job Summary. Section03. Inclination & Azimuth.





⁴⁸ Customer provided data, not acquired by PetroMar

NNE_Boggess_13H– Job Summary. Section03. Gamma API (GRC_D).



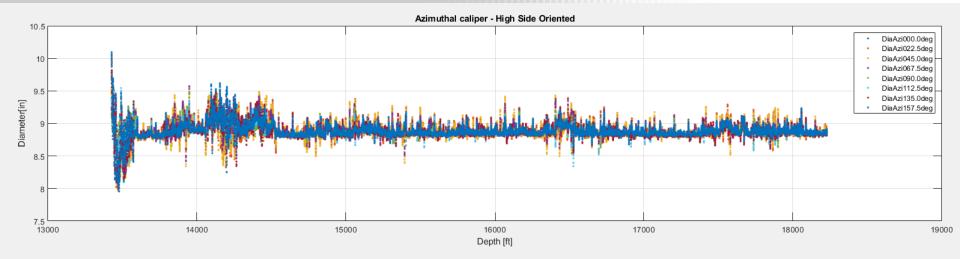


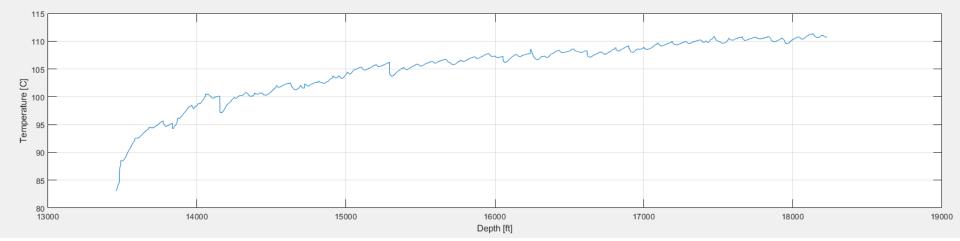
⁴⁹ Customer provided, not acquired by PetroMar

- FV Sensor at 13,426 18,228 ft
- FV Sensor to Bit Distance ~ 111.8 ft
- Occasional Stick-Slip



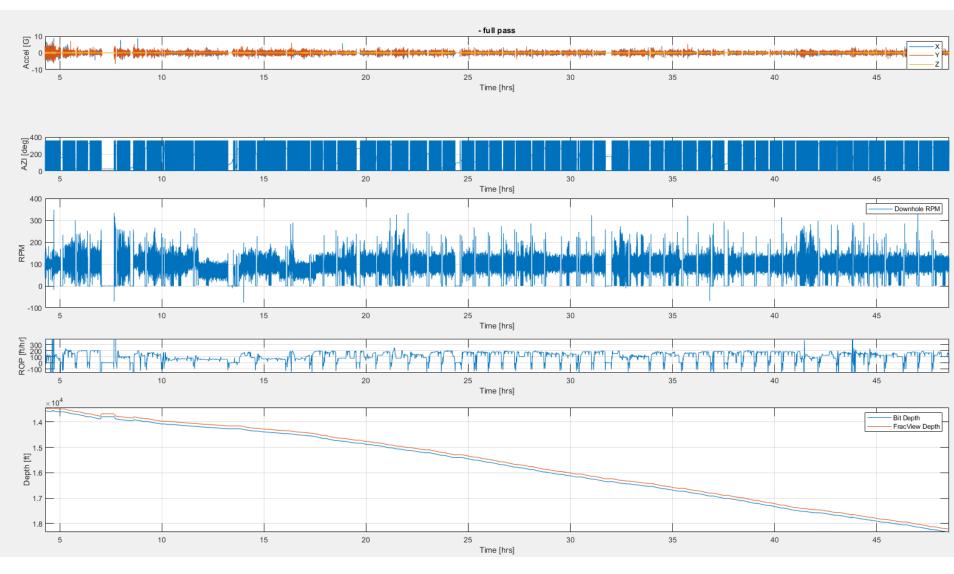
NNE_Boggess_13H– Job Summary. Section02. Pass01. Azimuthal Calipers.





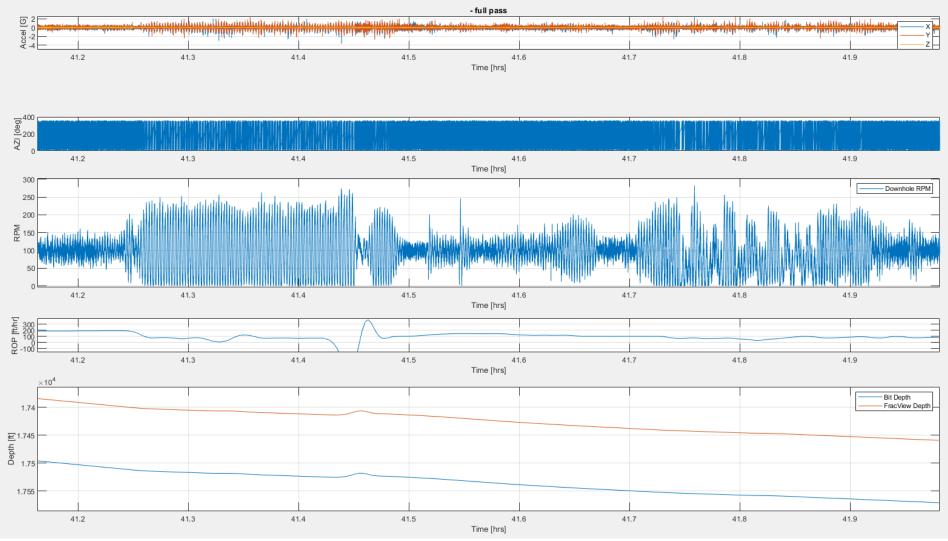


NNE_Boggess_13H– Job Summary. Section03. Pass01. Motion Dynamics.



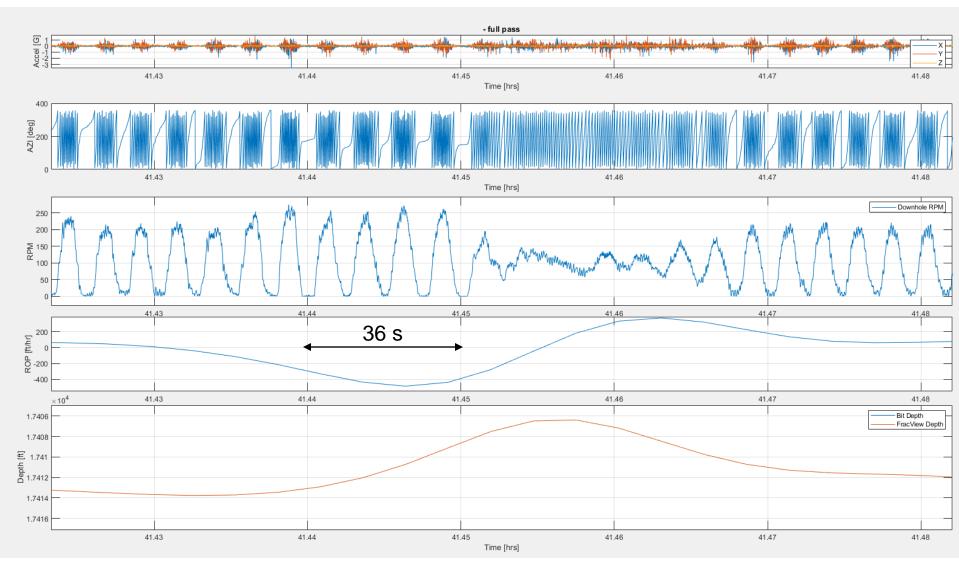


NNE_Boggess_13H– Job Summary. Section03. Pass01. Motion Dynamics (zoom in).

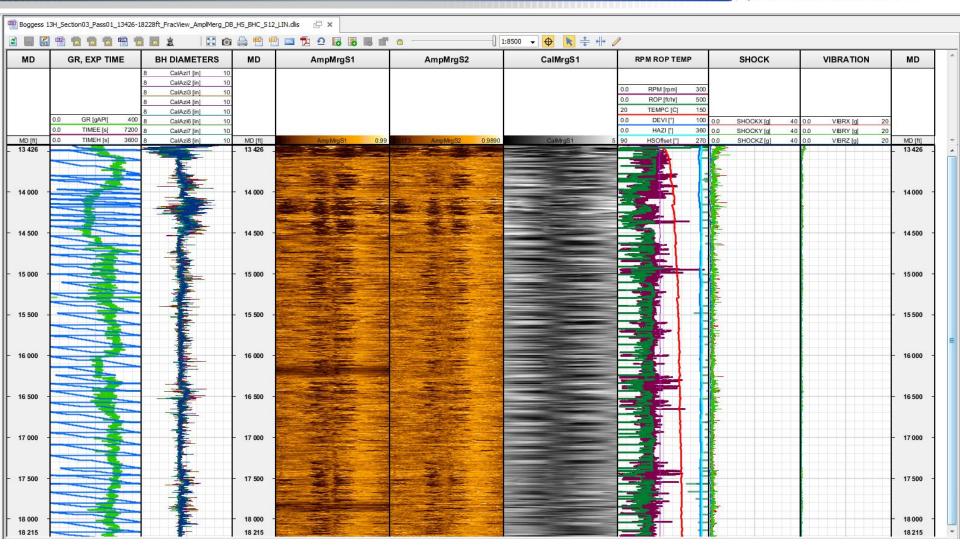




NNE_Boggess_13H– Job Summary. Section03. Pass01. Motion Dynamics (zoom in).









🖷 Boggess 13H_Section03_Pass01_13426-18228ft_FracView_AmplMerg_DB_HS_BHC_S12_LIN.dlis 👘 🚽 🗴

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MD	GR, EXP TIME	BH DIAMETERS	MD	AmpMrgS1	AmpMrgS2	CalMrgS1	RPM ROP TEMP	SHOCK	VIBRATION	MD
		8 CalAzi1 [in] 10)			10- 				
		8 CalAzi2 [in] 10								
		8 CalAzi3 [in] 10					0.0 RPM [rpm] 300			
		8 CalAzi4 [in] 10					0.0 ROP [ft/hr] 500			
	0.0 GR [gAPI] 4	8 CalAzi5 [in] 10 0 8 CalAzi6 [in] 10					20 TEMPC [C] 150			
	0.0 TIMEE [s] 72						0.0 DEVI[*] 100	0.0 SHOCKX [g] 40 0.0 SHOCKY [g] 40	0.0 VIBRX [g] 20 0.0 VIBRY [g] 20	
MD [ft]	0.0 TIMEH [s] 36			0.010 AmpMrgS1 0.788	0.0173 AmpMrgS2 0.8570	CalMrgS1	5 0.0 HAZI [*] 360		0.0 VIBRZ [g] 20	MD [ft]
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MD	GR, EXP TIME	BH DIAMETERS	MD	AmpMrgS1	AmpMrgS2	CalMrgS1	RPM ROP TEMP	SHOCK	VIBRATION	MD
		8 CalAzi1 [in] 10								с
		8 CalAzi2 [in] 10								
		8 CalAzi3 [in] 10 8 CalAzi4 [in] 10					0.0 RPM [rpm] 300	6		
		8 CalAzi5 [in] 10					0.0 ROP [ft/hr] 500			
	0.0 GR [gAPI] 400	8 CalAzi6 [in] 10					20 TEMPC [C] 150	0.0 SHOCKX [g] 40	0.0 VIBRX [g] 20	
	0.0 TIMEE [s] 7200	8 CalAzi7 [in] 10					0.0 DEVI[*] 100		0.0 VIBRY [g] 20	
MD [ft]	0.0 TIMEH [s] 3600	8 CalAzi8 [in] 10	MD [ft]	010 AmpMrgS1 0.788	1173 AmpMrgS2 0.8570	CalMrgS1	5 0.0 HAZI [*] 360	0.0 SHOCKZ [g] 40	0.0 VIBRZ [g] 20	
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- 13 989			- 13 989 -							- 13 989 -
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- 13 991			- 13 991 -	1 12				2		- 13991 -
13 992	1 / 1		- 13 992 -	and bit		and the second se				- 13992 -



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MD	GR, EXP TIME	BH DIAMETERS	MD	AmpMrgS1	AmpMrgS2	CalMrgS1	RPM ROP TEMP	SHOCK	VIBRATION	MD
3 C	2.2	8 CalAzi1 [in] 10			с. С.	5				5
		8 CalAzi2 [in] 10								
		8 CalAzi3 [in] 10								
		8 CalAzi4 [in] 10					0.0 RPM [rpm] 300			
	10	8 CalAzi5 [in] 10					0.0 ROP [ft/hr] 500			
	0.0 GR [gAPI] 400	8 CalAzi6 [in] 10					20 TEMPC [C] 150		0.0 VIBRX [g] 20	
	0.0 TIMEE [s] 7200	8 CalAzi7 [in] 10					0.0 DEVI[*] 100	100	0.0 VIBRY [g] 20	
MD [ft]	0.0 TIMEH [s] 3600	8 CalAzi8 [in] 10	MD [ft]	010 AmpMrgS1 0.788	0.0173 AmpMrgS2 0.8570	CalMrgS1	5 0.0 HAZI ["] 360	0.0 SHOCKZ[g] 40	0.0 VIBRZ [g] 20	MD [ft]
_ 16 043 _			_ 16 043 _				S S			_ 16043 _
- 16 045 -			- 16 045 -				<u>ا</u>	Q		- 16045 -
- 16 046 -			- 16 046 -				5	1		- 16046 -
- 16 047 -			- 16 047 -				3			- 16047 -
- 16 048 -	*		- 16 048 -		Contraction of the second s		1	4		- 16048 -
- 16 049 -	1		- 16 049 -	2- 4						- 16049 -
- 16 050 -			- 16 050 -				12	>		- 16050 -
- 16 051 -			- 16 051 -			and the owner of the owner owner.				- 16051 -
- 16 052 -			- 16 052 -				12			- 16052 -
- 16 053 -		1	- 16 053 -	12 S 10						- 16053 -
- 16 054 -			- 16 054 -	19 A. 73.						- 16054 -
- 16 055 -	N		- 16 055 -	14 14 14 14 14 14 14 14 14 14 14 14 14 1			3			- 16055 -
)				69		2			1
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- 16 057 -	1	N	- 16 057 -	1.1-17 M			- Market			- 16057 -
- 16 058 -		No.	- 16 058 -			State State State	5	X		- 16058 -
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- 16 060 -		N	- 16 060 -					\		- 16060 -
- 16 061 -			- 16 061 -					1		- 16061 -
				1						- 16062 -
- 16 062 -			- 16 062 -							1
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- 16 064 -			- 16 064 -			5 20	3			- 16064 -
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- 16 066 -			- 16 066 -			The second second	~			- 16066 -
- 16 067 -		X	- 16 067 -		A CONTRACT OF	100	8	}		- 16067 -
- 16 068 -		AX)	- 16 068 -		and the second sec	and the second second	3			- 16068 -
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		11	1				WW	8		-
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- 16 071 -	1 /1	NAN	- 16 071 -				3	N.		- 16071 -
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- 16 073 -	-) (W	- 16 073 -		A CAR CAS		3	¥		- 16073 -
- 16 074 -	- (/	- 16 074 -				8			- 16074 -
- 16 075 -			- 16 075 -				3			- 16075 -
								4		1 0000000
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- 16 077 -	-		- 16 077 -				- 21 I I			- 16077 -



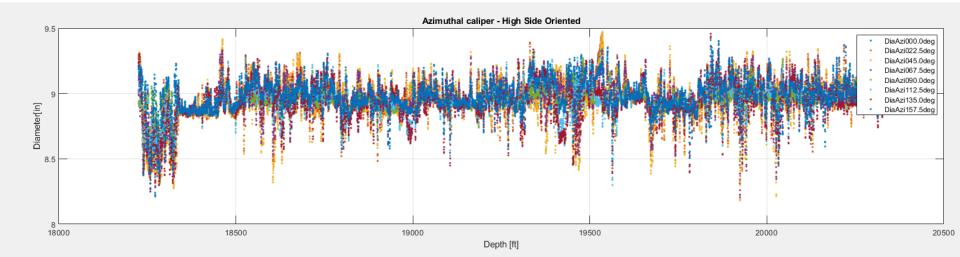
Boggess 1	13H_Section03_Pass01_13426-:	18228ft_FracView_AmplMerg_DE	B_HS_BHC_S12	_LIN.dlis 🗗 🗙						
3 8 6	e 🖻 💼 💼 👘) 🔤 🔁 🖸 🔀 🐻 😭	â 1:e	io 👻 🔶 🔭 🕂 🕂	0			
MD	GR, EXP TIME	BH DIAMETERS	MD	AmpMrgS1	AmpMrgS2	CalMrgS1	RPM ROP TEMP	зноск	VIBRATION	MD
	1	8 CalAzi1 [in] 10								
		8 CalAzi2 [in] 10								
		8 CalAzi3 [in] 10					0.0 RPM [rpm] 300			
		8 CalAzi4 [in] 10 8 CalAzi5 [in] 10					0.0 ROP [ft/hr] 500			
	0.0 GR [gAPI] 400						20 TEMPC [C] 150		0.0 VIBRX [g] 20	2
	0.0 TIMEE [s] 7200	8 CalAzi7 [in] 10					0.0 DEVI[*] 100			
MD [ft]	0.0 TIMEH [s] 3600	8 CalAzi8 [in] 10		AmpMrgS1 0.788	0.173 AmpMrgS2 0.8570	CalMrgS1	5 0.0 HAZI [*] 360	0.0 SHOCKZ [g] 40 (MD [ft]
_ 18 194 .			_ 18 194 _	2						_ 18 194 _
- 18 196 -			- 18 196 -	E 75	THE PARTY IN		2			- 18 196 -
- 18 197 -			- 18 197 -				33)		- 18 197 -
- 18 198 -			- 18 198 -	2 2 23				>		- 18 198 -
- 18 199 -			- 18 199 -	No. 2 . Salar	R. E. Shien the					- 18 199 -
- 18 200 -			- 18 200 -	er ca light in			= 3	λ		- 18 200 -
- 18 201 -			- 18 201 -	AND THE REAL PROPERTY AND	and the second			P		- 18 201 -
- 18 202 -			- 18 202 -	ALL TRACES AND						- 18 202 -
- 18 203 -			- 18 203 -	the second se	and the second of the					- 18 203 -
			1.	a series of the	A CONTRACTOR OF THE OWNER					1.
- 18 204 -			- 18 204 -	2	2		3			- 18204 -
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- 18 207 -			- 18 207 -							- 18 207 -
- 18 208 -			- 18 208 -				E E	f		- 18 208 -
- 18 209 -			- 18 209 -		Same Records					- 18209 -
- 18 210 -			- 18 210 -	the state was			3	k		- 18210 -
- 18 211 -			- 18 211 -					2		- 18211 -
- 18 212 -			- 18 212 -	Strates and	the second			<u> </u>		- 18212 -
- 18 213 -		/	- 18 213 -	No. 19 Contraction			3	1		- 18213 -
- 18 214 -			- 18 214	and a start of the	State - 2		1 2			- 18214 -
- 18 215 -			- 18 215 -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			3			- 18215 -
- 18 216 -			- 18 216 -	\$1 P+ 1	A		8			- 18216 -
- 18 217 -			- 18 217 -	1. 1.	1 232 . 1		What			- 18217 -
				1 Lating	a had a		F			
- 18 218 -			- 18 218 -							- 18218 -
- 18 219			- 18 219	the second	1 473- 6)		- 18219 -
- 18 220 -			- 18 220 -	A AND AND AND AND AND AND AND AND AND AN	And the second second		2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			- 18 220 -
- 18 221 -			- 18 221 -	100 200 100			§			- 18221 -
18 222			- 18 222 -		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					- 18 222 -
- 18 223 -			- 18 223 -	M 23 1						- 18 223 -
- 18 224 -		N N	- 18 224 -				3			- 18224 -
- 18 225 -		V	- 18 225 -				2			- 18 225 -
- 18 226 -			- 18 226 -	a start	State of the second sec			<u>}</u>		- 18 226 -
- 18 227 -			- 18 227 -) 2			- 18 227 -
		1 11		The American State						

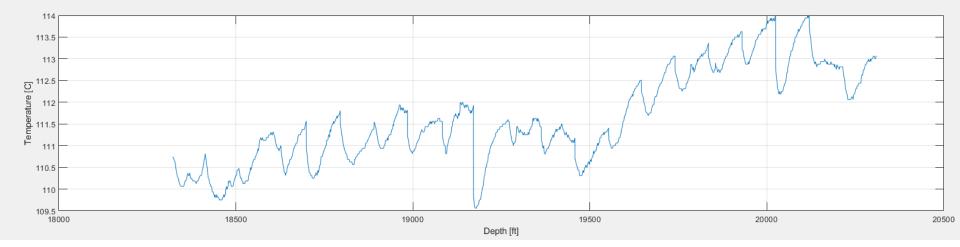


- FV Sensor at 18,225 20,328 ft
- FV Sensor to Bit Distance ~ 111.8 ft
- Occasional Stick-Slip



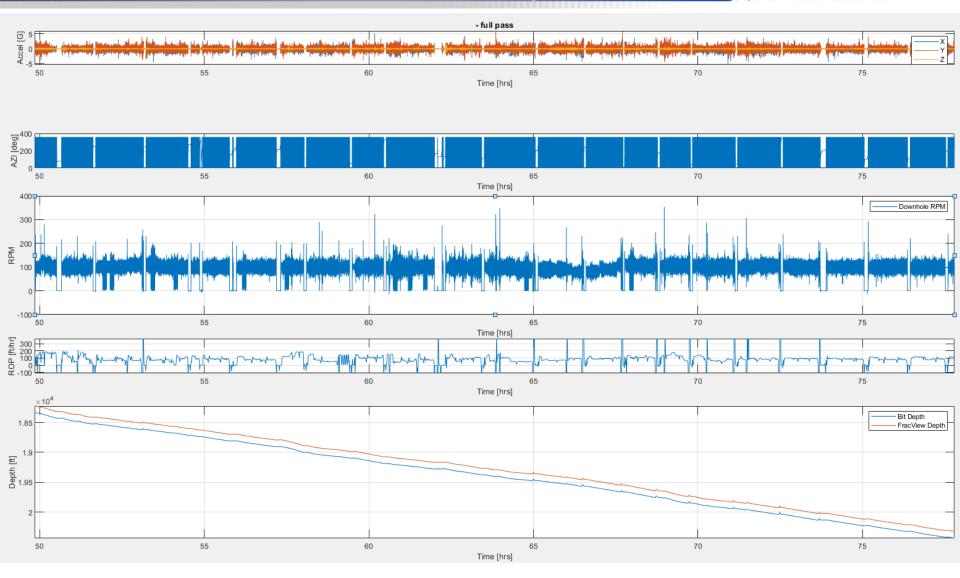
NNE_Boggess_13H– Job Summary. Section03. Pass02. Azimuthal Calipers.







NNE_Boggess_13H– Job Summary. Section03. Pass02. Motion Dynamics.





👜 Boggess 13H_Section03_Pass02_18225-20328ft_FracView_AmplMerg_DB_HS_BHC_S12_LIN.dlis 🛛 📮 🗙

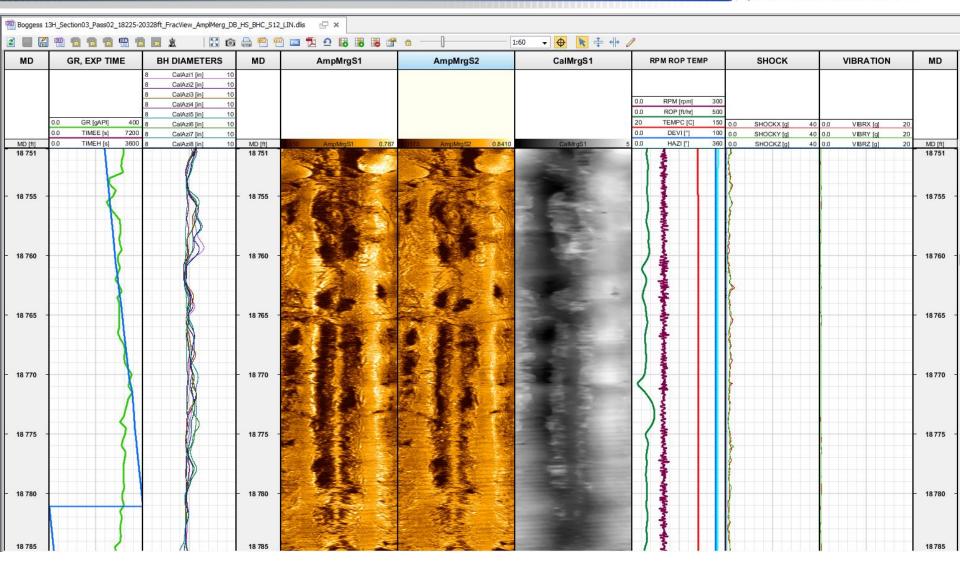
MD	GR, EXP TIME	BH DIAMETERS	MD	AmpMrgS1	AmpMrgS2	CalMrgS1	RPM ROP TEMP	SHOCK	VIBRATION	MD		
	2	8 CalAzi1 [in] 10 8 CalAzi2 [in] 10				0.0						
		8 CalAzi3 [in] 10 8 CalAzi4 [in] 10					0.0 RPM [rpm] 300 0.0 ROP [ft/hr] 500					
	6	8 CalAzi4 [in] 10 8 CalAzi5 [in] 10					20 TEMPC [C] 150					
	0.0 GR [gAPI] 400 0.0 TIMEE [s] 7200	8 CalAzi6 [in] 10 8 CalAzi7 [in] 10					0.0 DEVI["] 100 0.0 HAZI["] 360		0.0 VIBRX [g] 20 0.0 VIBRY [g] 20			
MD [ft]	0.0 TIMEH [s] 3600	8 CalAzi8 [in] 10	MD [ft]	AmpMrgS1 0.99	0.0173 AmpMrgS2 0.9890	CalMrgS1	5 90 HSOffset [*] 270		0.0 VIBRZ [g] 20	MD [ft]		
18 225 - 18 300 -			18 225 - 18 300 -					<u> </u>		18 225 - 18 300 -		
- 18 400 -			- 18400 -					E		- 18 400 -		
		<u> </u>			Law States							
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- 18 600 -			- 18 600 -							- 18600 -		
- 18 700 -			- 18 700 -							- 18700 -		
- 18 800 -			- 18 800 -							- 18 800 -		
- 18 900 -			- 18 900 -					£		- 18900 -		
- 19 000 -			- 19 000 -					£		- 19000 -		
- 19 100 -			- 19 100 -							- 19100 -		
- 19 200 -		<u></u>	- 19 200 -					E		- 19200 -		
- 19 300 -		-	- 19 300 -							- 19 300 -		
- 19 400 -			- 19 400 -					E		- 19 400 -		
- 19 500 -			- 19 500 -					5		- 19 500 -		
- 19 600 -			- 19 600 -							- 19600 -		
- 19 700 -			- 19700 -					2		- 19700 -		
- 19 800 -			- 19800 -							- 19800 -		
- 19 900 -			- 19 900 -				-31			- 19900 -		
- 20 000 -			- 20 000 -							- 20 000 -		
- 20 100 -			- 20 100 -				31			- 20100 -		
- 20 200 -			- 20 200 -							- 20 200 -		
- 20 328 -			- 20 328 -				5			- 20 328 -		



🖷 Boggess 13H_Section03_Pass02_18225-20328ft_FracView_AmplMerg_DB_HS_BHC_S12_LIN.dlis 👘 📑 🗶

							<i>•</i>			
MD	GR, EXP TIME	BH DIAMETERS	MD	AmpMrgS1	AmpMrgS2	CalMrgS1	RPM ROP TEMP	SHOCK	VIBRATION	MD
		8 CalAzi1 [in] 10 8 CalAzi2 [in] 10								, ,
	2	8 CalAzi3 [in] 10 8 CalAzi4 [in] 10					0.0 RPM [rpm] 300			
	0.0 00 (4.00 100	8 CalAzi5 [in] 10					0.0 ROP [ft/hr] 500			
	0.0 GR [gAPI] 400 0.0 TIMEE [s] 7200	8 CalAzi6 [in] 10 8 CalAzi7 [in] 10					20 TEMPC [C] 150 0.0 DEVI [*] 100		0.0 VIBRX [g] 20 0.0 VIBRY [g] 20	
	0.0 TIMEH [s] 3600	8 CalAzi8 [in] 10	MD [ft]	0.010 AmpMrgS1 0.787	0.0173 AmpMrgS2 0.8410	CalMrgS1	Brand and a second s		0.0 VIBRZ [g] 20	MD [ft]
18 410			18 410							18 4 10
						1000	4			
- 18 415 -			- 18 415 -	SP ALLE	Contration of				1	- 18415 -
								2		
- 18 420 -			- 18420 -		14	100				- 18420 -
		- K						ę		
- 18 425 -			- 18425 -		16 N N N					- 18425 -
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- 18 430 -			- 18 430 -			1000		}	l	- 18430 -
							E	§		
- 18 435 -			- 18 435 -	1 3.						- 18435 -
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					5					
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18 444			18 444				14			18 444
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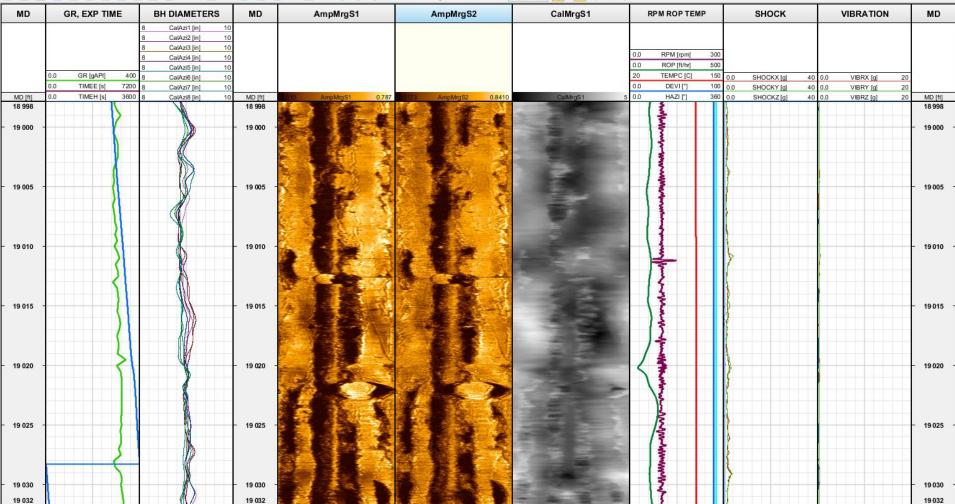






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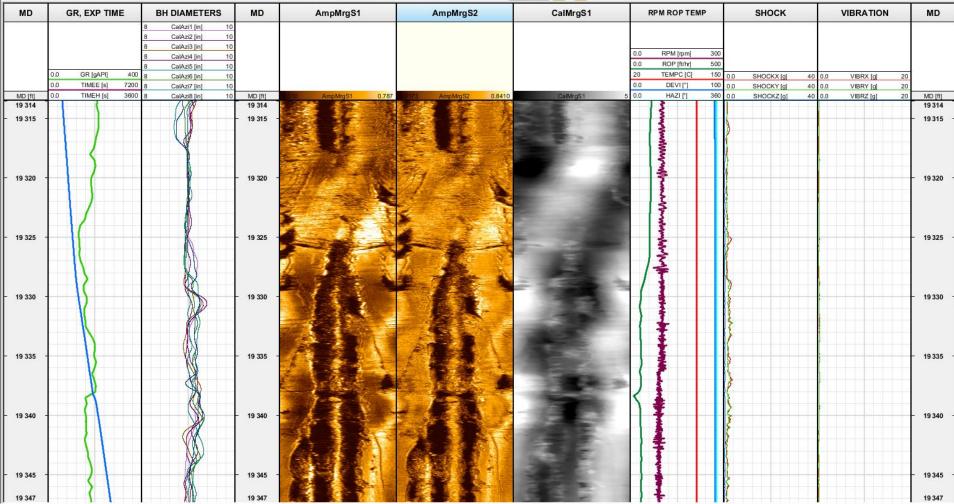
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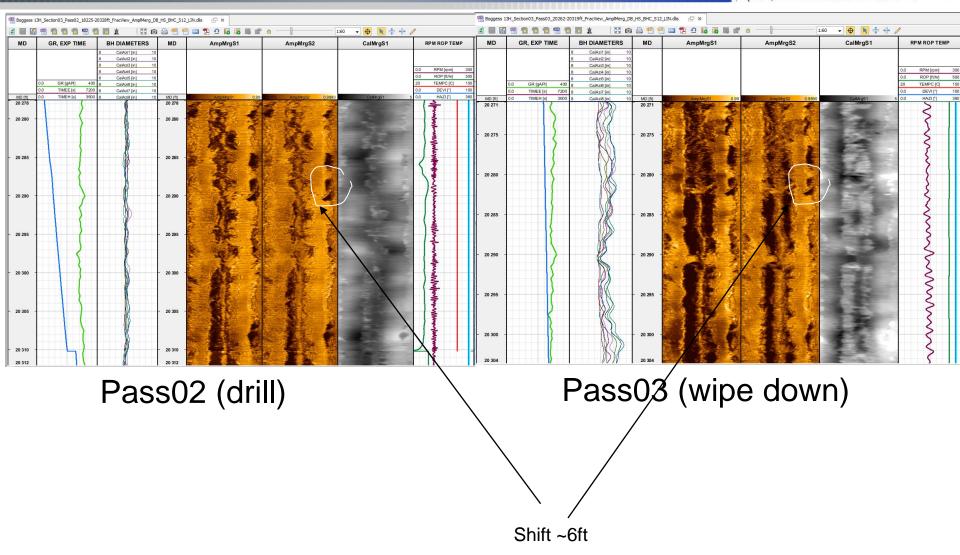
🖷 Boggess 13H_Section03_Pass02_18225-20328ft_FracView_AmplMerg_DB_HS_BHC_S12_LIN.dlis 👘 🗇

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NNE_Boggess_13H– Job Summary. Section03. Pass03 vs Pass02





NNE_Boggess_13H– Job Summary.

Thank You

