TWG THE WIRELINE GROUP

Compensated Neutron
Gamma Ray
Casing Collar Log

Company Caerus Oil and Gas LLC.
Well BJU M33A FED 14A-33-496
Field Grand Valley
County Garfield State Colorado
Location: API #: 05-045-18720
SEC 33 TWP 4S RGE 96W
Other Services: RCBL

Permanent Datum Ground Level Elevation 8403'
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Elevation
K.B. 8433'
D.F. 8433'
G.L. 8403'

Company Caerus Oil and Gas LLC.
Well BJU M33A FED 14A-33-496
Field Grand Valley
County Garfield
State Colorado

Date	19-NOV-2023
Run Number	One
Depth Driller	11311'
Depth Logger	11202'
Bottom Logged Interval	11190'
Top Log Interval	Surface
Open Hole Size	8.750"
Type Fluid	Fresh Water
Density / Viscosity	8.34 lb/gal
Max. Recorded Temp.	--
Estimated Cement Top	--
Time Well Ready	ROA
Time Logger on Bottom	10:45
Equipment Number	8102
Location	Grand Junction
Recorded By	P. Edwards
Witnessed By	B. Elliss

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size (in)	Wgt (lbs/Ft)	Grade	Top	Bottom
Surface Casing	9.625	36.0	J-55	Surface	3025'
Intermediate #1	4.5	13.5	P-110	Surface	11296'
Intermediate #2					
Liner					

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Log ran as per customer request.
Depth referenced to Kelly Bushing @ 30'
Marker Joint from 7418' - 7428'

Log ran with 0 PSI surface induced pressure.

Thank you for choosing The Wireline Group!!!

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Main Pass 5" = 100'

Database File	caerus_bju_m33_fed_14a-33-496_rcbl_cnl\caerus_bju_m33_fed_14a-33-496_rcbl_cnl.db
Dataset Pathname	main
Presentation Format	twg_cnl
Dataset Creation	Sun Nov 19 10:53:09 2023
Charted by	Depth in Feet scaled 1:240

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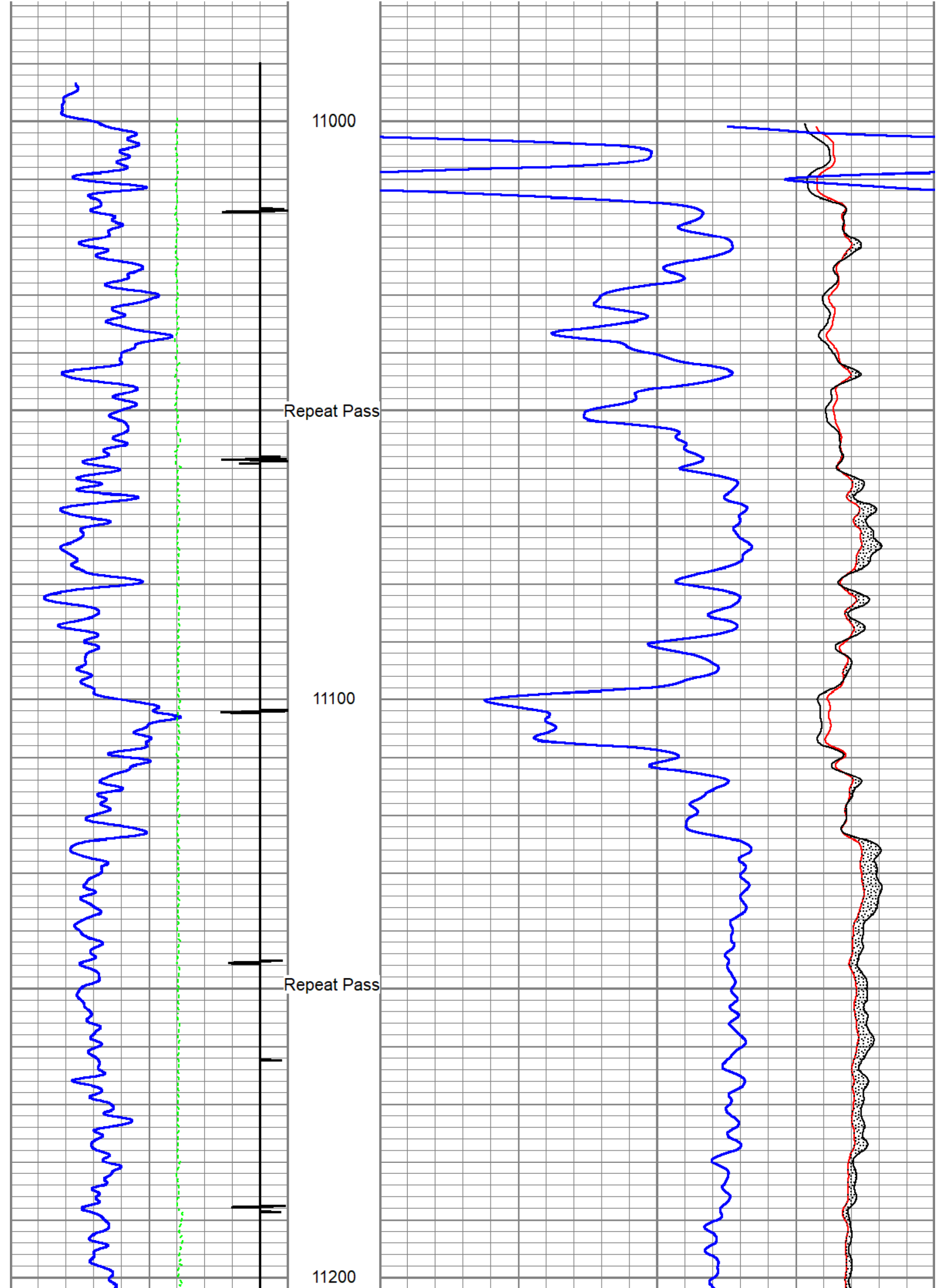
Repeat Pass 5" = 100'

Database File	caerus_bju_m33_fed_14a-33-496_rcbl_cnl\caerus_bju_m33_fed_14a-33-496_rcbl_cnl.db
Dataset Pathname	repeat1
Presentation Format	twg_cnl
Dataset Creation	Sun Nov 19 10:48:11 2023
Charted by	Depth in Feet scaled 1:240



Calibration Report

Database File	c:\programdata\warrior\data\caerus_bju_m33_fed_14a-33-496_rcbl_cnl\caerus_bju_m33_fed_14a-33-
Dataset Pathname	main
Dataset Creation	Sun Nov 19 10:53:09 2023

Compensated Neutron Calibration Report

Serial Number: FW1409-35
Tool Model: 275Dig

TANK CALIBRATION	Mon Jan 30 16:01:15 2023		
	Tool Ratio	Tank Ratio	K-Factor
Tank Calibration	10.9772	11.6940	1.0653
	Detector	Readings	
	Short Space	765.97 cps	
	Long Space	69.78 cps	

Gamma Ray Calibration Report

Serial Number:	110255	
Tool Model:	GCT275-0001	
Performed:	Thu Jul 6 13:26:01 2023	
Calibrator Value:	150.4	GAPI
Background Reading:	72.3	cps
Calibrator Reading:	300.9	cps
Sensitivity:	0.6579	GAPI/cps

Inclinometer Calibration Report

Performed: (Not Performed)

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	0.00	1.00	0.00	1.00	gee
Y Accelerometer	0.00	1.00	0.00	1.00	gee
Z Accelerometer	0.00	1.00	0.00	1.00	gee

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1906-032	
Tool Model:	Probe275acc	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	408.675	ft

Master Calibration, performed Thu Nov 16 10:37:44 2023:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.006	0.745	0.150	81.196	109.612	-0.471
CAL	0.008	0.742				
5'	0.007	0.645	0.150	81.196	126.968	-0.747
SUM						
S1	0.008	0.737	0.000	100.000	137.054	-1.029
S2	0.007	0.712	0.000	100.000	141.811	-1.032
S3	0.007	0.717	0.000	100.000	140.727	-0.943
S4	0.006	0.730	0.000	100.000	138.238	-0.883
S5	0.006	0.755	0.000	100.000	133.649	-0.861
S6	0.008	0.767	0.000	100.000	131.730	-1.024
S7	0.007	0.780	0.000	100.000	129.383	-0.899
S8	0.006	0.777	0.000	100.000	129.680	-0.766

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.008	0.742	1.000	0.000

Air Zero Calibration, performed Thu Nov 16 10:33:06 2023:

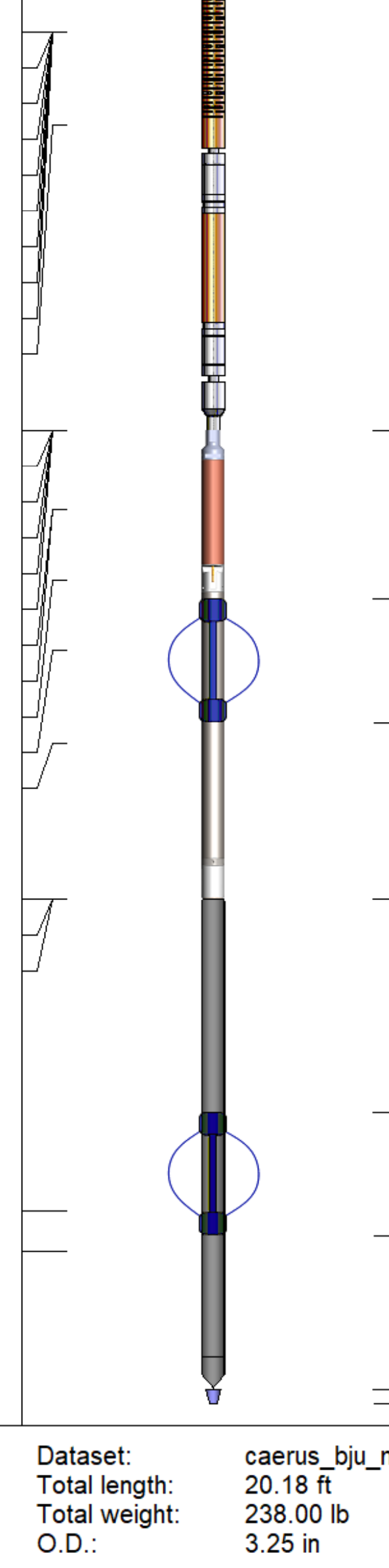
	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

Inclinometer Calibration Report

Performed: (Not Performed)

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	0.00	1.00	0.00	1.00	gee
Y Accelerometer	0.00	1.00	0.00	1.00	gee
Z Accelerometer	0.00	1.00	0.00	1.00	gee

Schematic



Sensor	Offset (ft)
GCT_FMWR	20.18
mSec_Count	20.18
RBT_Status	20.18
Error_Ct	20.18
WVFS8	14.63
WVFS7	14.63
WVFS6	14.63
WVFS5	14.63
WVFS4	14.63
WVFS3	14.63
WVFS2	14.63
WVFS1	14.63
WVF3FT	14.63
WVF5FT	13.63
RBT_ACCZ	10.38
RBT_ACCY	10.38
RBT_ACCX	10.38
GCT_HV	10.38
WVFSYNC	10.38
WVFCAL	10.38
CCL$2	9.53
CCL$1	9.53
GCT_Temp	8.78
GR	8.03
GCT_IntTemp	7.04
GCT_ACCZ	5.37
GCT_ACCY	5.37
GCT_ACCX	5.37
CNLSC	2.05
CNSSC	1.61

Description	Length (ft)	O.D. (in)	Weight (lb)
STD BLCH-14375 Standard 1-7/16" Braided Line Cable Head with 1" Fishing Neck	1.04	1.44	1.00
SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00
RBT8acc-Probe275acc (FW1906-032) 2.75" Radial Corrosion with accelerometer	8.75	2.75	110.00
SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00
GCacc-GCT275-0001 (110255) Probe 2.75" 6 Pin Gamma Ray - CCL w/ Temp	5.01	2.75	55.00
CNT-275Dig (FW1409-35) Probe Digital CNL	5.24	2.75	40.00
SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00
Sealed-77835 77835	0.14	1.70	2.00

Dataset:	caerus_bju_m33_fed_14a-33-496_rcbl_cnl.db: field/well/run1/main
Total length:	20.18 ft
Total weight:	238.00 lb
O.D.:	3.25 in

Company	Caerus Oil and Gas LLC.		
Well	BJU M33A FED 14A-33-496		
Field	Grand Valley		
County	Garfield	State	Colorado

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