RELIANCE OILFIELD SERVICES

Pulsed Neutron
Gamma Ray
Casing Collar Log

Company TEP Rocky Mountain LLC
Well Tri State Trucking PA 414-24
Field Parachute
County Garfield
State Colorado

Company	TEP Rocky Mountain LLC		
Well	Tri State Trucking PA 414-24		
Field	Parachute		
County	Garfield	State	Colorado

Location: API # : 05-045-23653
SEC 25 TWP 6S RGE 95W

Other Services
RBL

Permanent Datum	Ground Level	Elevation	5223.8'
Log Measured From	Kelly Bushing	24 FT	
Drilling Measured From	Kelly Bushing		

Elevation
K.B. 5247.8'
D.F. 5246.8'
G.L. 5223.8'

Date	23-MAR-2018		
Run Number	One		
Depth Driller	8925 FT		
Depth Logger	8838 FT		
Bottom Logged Interval	8838 FT		
Top Log Interval	4799 FT		
Open Hole Size	8.750"		
Type Fluid	Fresh Water		
Density / Viscosity	8.34 lb/gal		
Max. Recorded Temp.	---		
Estimated Cement Top	---		
Time Well Ready	---		
Time Logger on Bottom	---		
Equipment Number	---		
Location	Grand Junction, CO		
Recorded By	J.Donnelly		
Witnessed By	---		

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 5/8	32.3	H-40	Surface	1131 FT
Intermediate #1	4 1/2	11.6	P-110	Surface	8884 FT
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 Reliance Bond Log dated 23-MAR-2018
Log ran from 8838 FT to 4799 FT
PDN data logged with Hunter Pulsed Neutron Tool

Thank you for choosing Reliance Oilfield Services, LLC!!

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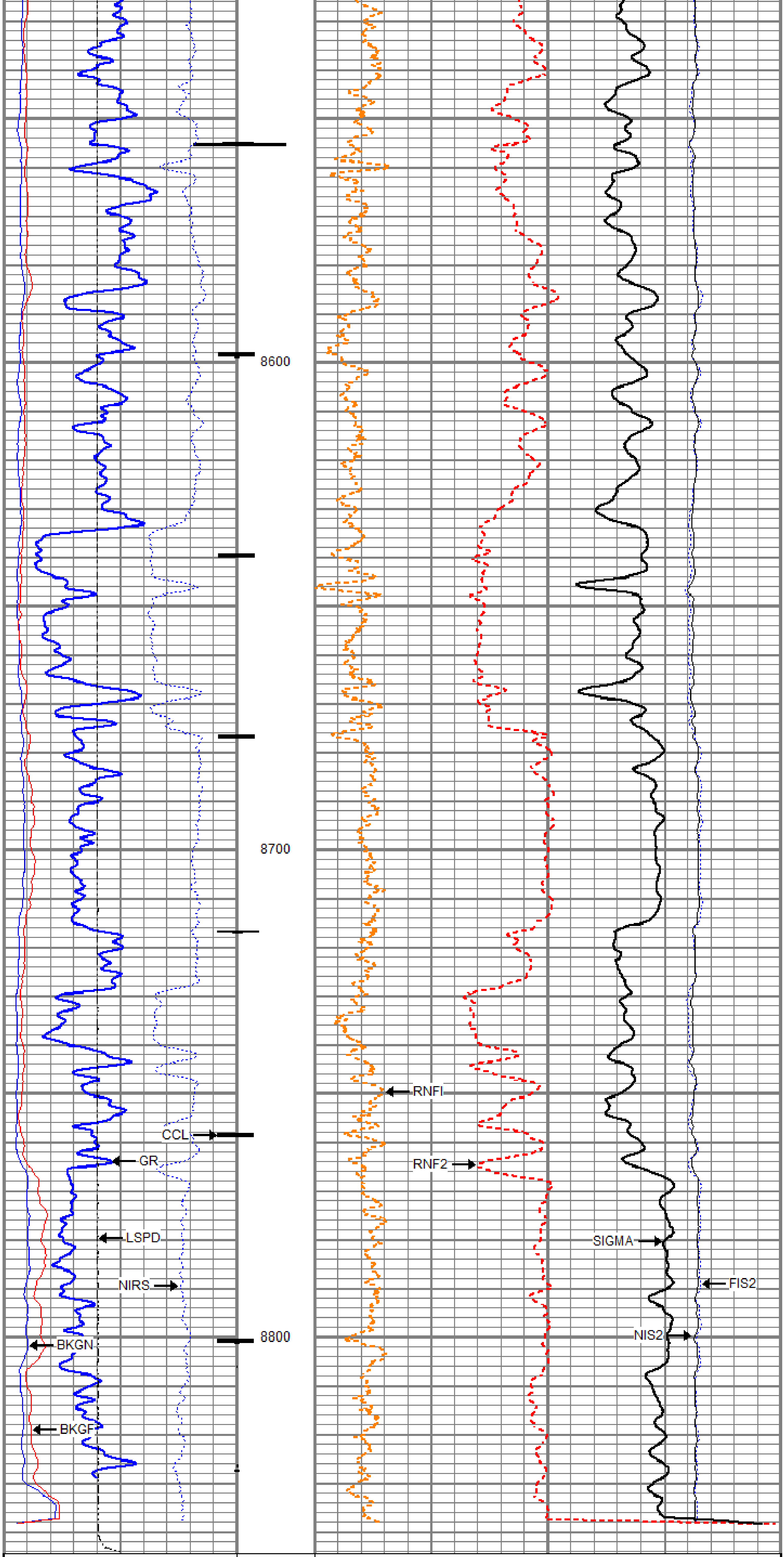
Main Pass

Database File tep\pa 414-24\pn\tep_tri state trucking pa 414-24_pn_03-23-2018.db
Dataset Pathname main1.1
Presentation Format ros_pdn_hunter
Dataset Creation Fri Mar 23 17:47:09 2018
Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
	Casing Collar Locator	
-100	Line Speed (ft/min)	100
0	NIRS (cps)	400000
0	BKGN (cps)	4000
0	BKGF (cps)	2000

4	RNF2	0
60	SIGMA (cu)	0
4.5	RNFI	0
0	FIS2 (cps)	45000
0	NIS2 (cps)	100000



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	Casing Collar Locator	
-100	Line Speed (ft/min)	100
0	NIRS (cps)	400000
0	BKGN (cps)	4000
0	BKGF (cps)	2000

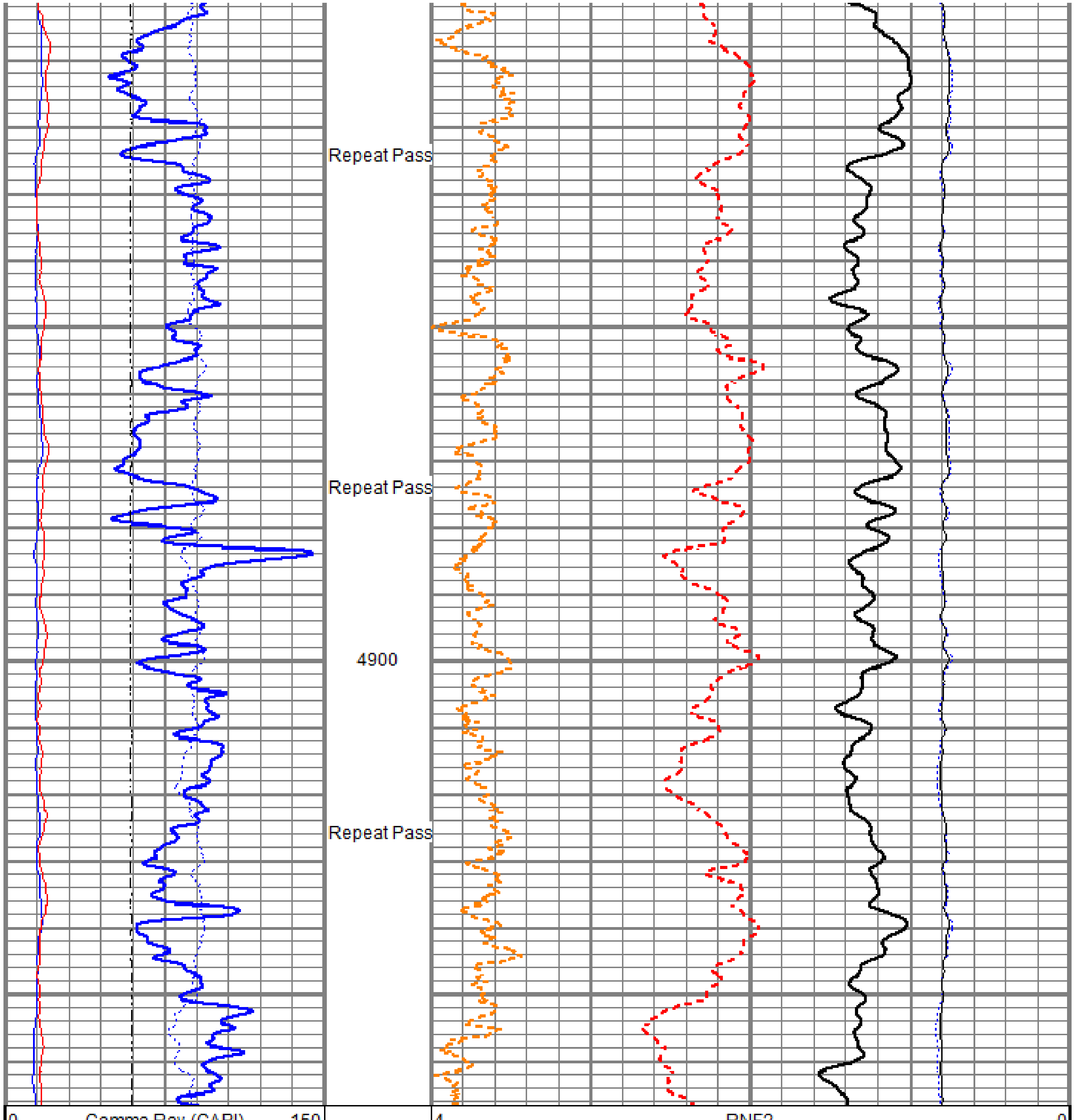
4	RNF2	0
60	SIGMA (cu)	0
4.5	RNFI	0
	FIS2	
0	(cps)	45000
	NIS2	
0	(cps100000	

Repeat Pass

Database File	tep\pa 414-24\pn\tep_tri state trucking pa 414-24_pn_03-23-2018.db
Dataset Pathname	repeat.4
Presentation Format	ros_pdn_hunter
Dataset Creation	Fri Mar 23 18:06:22 2018
Charted by	Depth in Feet scaled 1:240

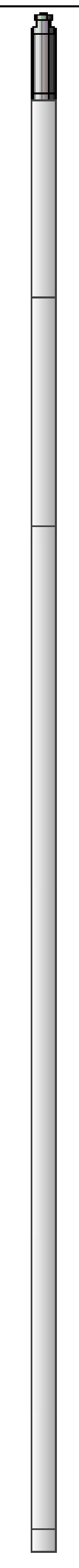
0	Gamma Ray (GAPI)	150
-100	Line Speed (ft/min)	100
0	NIRS (cps)	400000
0	BKGN (cps)	4000
0	BKGF (cps)	2000

4	RNF2	0
60	SIGMA (cu)	0
4.5	RNFI	0
	FIS2	
0	(cps)	45000
	NIS2	
0	(cps100000	



0	Gamma Ray (GAPI)	150
-100	Line Speed (ft/min)	100
0	NIRS (cps)	400000
0	BKGN (cps)	4000
0	BKGF (cps)	2000

4	RNF2	0
60	SIGMA (cu)	0
4.5	RNFI	0
	FIS2	
0	(cps)	45000
	NIS2	
0	(cps100000	



Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Titan CHD-16875 GO Titan 1-11/16" Assembled Electric Cable Head w/ 1" Fishing Neck	1.03	1.69	5.40
TCUTEMP TCUVOLT GCL_CCL	14.69 14.69 13.97		HWS_TCU-002 (001704) HWS Telemetry Control Unit (TCU002)	2.30	1.69	10.87
GCL_GR GCL_GR	12.50 12.50		HWS_GCL-001 (001475) HWS Gamma Ray Collar Locator (1.6875")	2.69	1.69	13.40
Long Far Near Anci	6.00 6.00 6.00 6.00		HWS_RAS-RAS002_Invt (003040_Invt) Hunter Well Science Pulsed Neutron Tool (Inverted)	11.75	1.69	55.82
			HWS_TBN-001 (001724) HWS Terminator Bull Nose (1.6875")	0.25	1.69	0.99

Dataset:	tep_tri state trucking pa 414-24_pn_03-23-2018.db: field/well/run1/main1.1
Total length:	18.02 ft
Total weight:	86.48 lb
O.D.:	1.69 in

Calibration Report

Database File	c:\programdata\warrior\data\tep\pa 414-24\pn\tep_tri state trucking pa 414-24_pn_03-23-2018.db
Dataset Pathname	main1.1
Dataset Creation	Fri Mar 23 17:47:09 2018

Gamma Ray Calibration Report

Serial Number:	001475	
Tool Model:	001	
Performed:	(Not Performed)	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	
Calibrator Reading:	1.0	
Sensitivity:	1.0000	GAPI/

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