RELIANCE
OILFIELD SERVICES

Pulsed Neutron
Gamma Ray
Casing Collar Log

Company TEP Rocky Mountain LLC
Well Federal PA 432-26
Field Parachute
County Garfield
State Colorado

Company	TEP Rocky Mountain LLC		
Well	Federal PA 432-26		
Field	Parachute		
County	Garfield	State	Colorado

Location: API # : 05-045-23710

SEC 26 TWP 6S RGE 95W

Other Services
RBL

Permanent Datum	Ground Level	Elevation	5637'
Log Measured From	Kelly Bushing	24 FT	
Drilling Measured From	Kelly Bushing		

Elevation
K.B. 5661'
D.F. 5660'
G.L. 5637'

Date	05-JUN-2018		
Run Number	One		
Depth Driller	8660 FT		
Depth Logger	8594 FT		
Bottom Logged Interval	8588 FT		
Top Log Interval	4670 FT		
Open Hole Size	8.750"		
Type Fluid	Water		
Density / Viscosity	8.34 lb/gal		
Max. Recorded Temp.	---		
Estimated Cement Top	---		
Time Well Ready	ROA		
Time Logger on Bottom	1:40		
Equipment Number	HD-0359		
Location	Grand Junction, CO		
Recorded By	Z. Fisher		
Witnessed By	D.Welsh		

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	1125 FT
Intermediate #1	4 1/2	11.6	P-110	Surface	8618 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 04-JUN-2018
Log ran from 8594 FT to 4670 FT
Pulsed Neutron Data logged with the Hunter RAS Tool

Thank you for choosing Reliance Oilfield Services, LLC!

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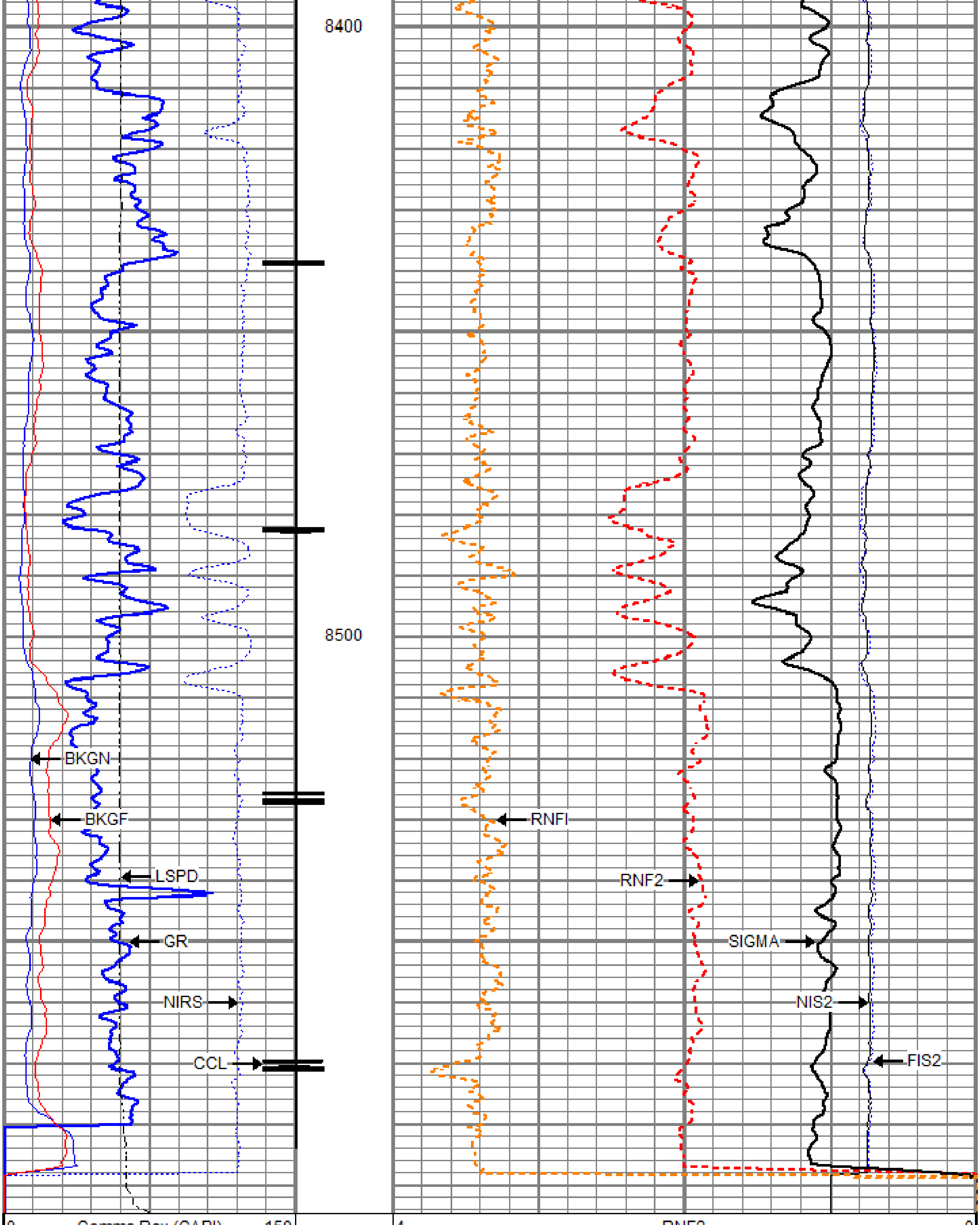
Main Pass

Database File	tep\pa 432-26\pn\processed_tep_federal pa 432-26_pn_06-05-18.db
Dataset Pathname	pn_shift
Presentation Format	ros_pdn_hunter
Dataset Creation	Tue Jun 05 13:45:12 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



0	Gamma Ray (GAPI)	150	4	RNF2	0	
	Casing Collar Locator		60	SIGMA (cu)	0	
-100	Line Speed (ft/min)	100	4.5	RNFI	0	
0	NIRS (cps)	400000				FIS2
0	BKGN (cps)	4000			0	(cps) 45000
0	BKGF (cps)	2000				NIS2
					0	(cps100000

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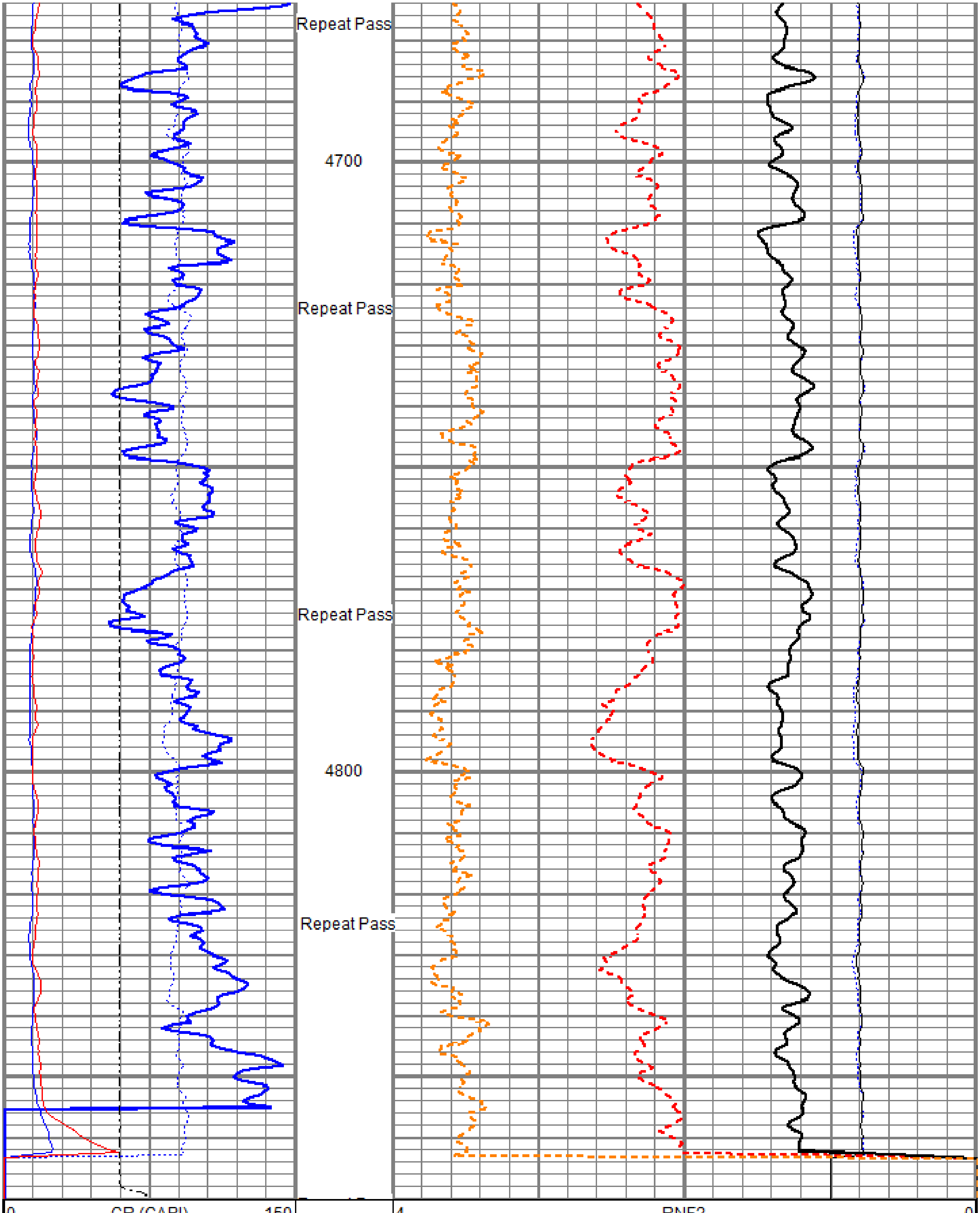
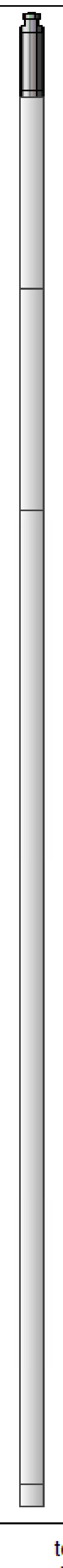
Repeat Pass

Database File	tep\pa 432-26\pn\processed_tep_federal pa 432-26_pn_06-05-18.db
Dataset Pathname	pn_shift_repeat
Presentation Format	ros_pdn_hunter
Dataset Creation	Tue Jun 05 13:46:52 2018
Charted by	Depth in Feet scaled 1:240

0	GR (GAPI)	150	4	RNF2	0	
-100	Line Speed (ft/min)	100	60	SIGMA (cu)	0	
0	NIRS (cps)	400000	4.5	RNFI	0	
0	BKGN (cps)	4000				FIS2
0	BKGF (cps)	2000			0	(cps) 45000
						NIS2
					0	(cps100000



0	GR (GAPI)	150	4	RNF2	0	
-100	Line Speed (ft/min)	100	60	SIGMA (cu)	0	
0	NIRS (cps)	400000	4.5	RNFI	0	
0	BKGN (cps)	4000				FIS2
0	BKGF (cps)	2000			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 (001705) HWS Telemetry Control Unit (TCU002)	2.30	1.69	10.87
GCL_GR GCL_GR	12.50 12.50		HWS_GCL-001 (001681) HWS Gamma Ray Collar Locator (1.6875")	2.69	1.69	13.40
Long Far Near Anci	6.25 6.25 6.25 6.25		HWS_RAS-RAS002 (003041) Hunter Well Science Pulsed Neutron Tool	11.75	1.69	55.82
			HWS_TBN-001 (001725) HWS Terminator Bull Nose (1.6875")	0.25	1.69	0.99

Dataset:	tep_federal pa 432-26_pn_06-05-2018.db: field/well/run1/main.2
Total length:	18.02 ft
Total weight:	86.48 lb
O.D.:	1.69 in

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Field	Parachute
County	Garfield
State	Colorado