Comments

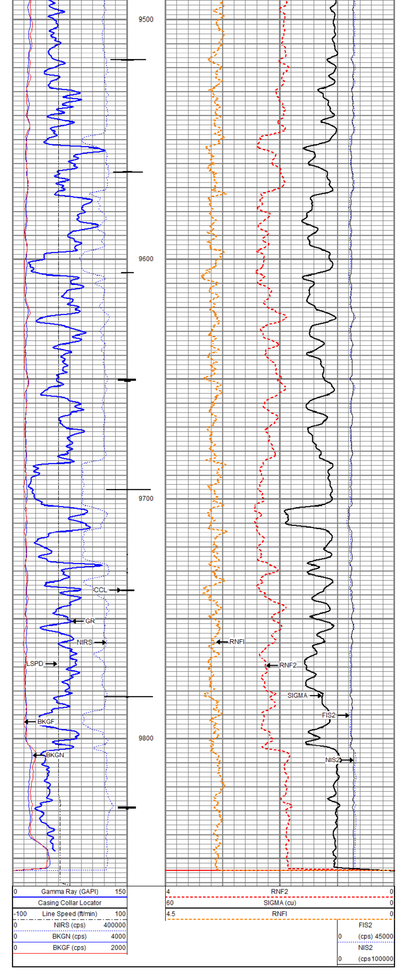
Gas Ratio: (C1+C2+C3) / (C4+C5)
Depth referenced to Drilling Measured Depth (DRILLING)
Gamma Ray is Environmentally Corrected
Neutron Porosity is Sandstone Matrix
Triple-Combo Processing Mode: Clay

Triple-Combo Processing Mode:Enhanced Vertical Resolution, v.2.0

Main Pass

Company:	Petro-Canada
Well:	100/16-29-048-10W5/00
Field:	Ante Creek
Province:	Alberta
Country:	Canada
Service Company:	Schlumberger
Log Date:	2-Jan-2011
Run Number:	ONE
Depth Datum:	Mean Sea Level
Permanent Datum:	MSL
Elevation:	0 m
Log Measured From:	Rotary Table
Drilling Measured From:	Rotary Table
Elevation:	0 m
Above Perm. Datum:	0 m

Total Depth (Driller):	3180	10433	ft
Total Depth (Logger):	3180	10433	ft
Bottom Log Interval:	3180	10433	ft
Top Log Interval:	1000	3281	ft
Casing Fluid Type:			
Casing Fluid Density:			
Casing Fluid Salinity:			
Casing Fluid Level:			
Bit Size:			
Casing Size:			
Casing Weight:			
Casing Grade:			
Casing Depth:			
Drilling Fluid Type:			
Drilling Fluid Density:			
Drilling Fluid Salinity:			
Drilling Fluid Level:			
Drilling Fluid Viscosity:			
Drilling Fluid Resistivity:			
Drilling Fluid Temperature:			
Drilling Fluid Filtrate:			
Drilling Fluid Filtrate Resistivity:			
Drilling Fluid Filtrate Temperature:			
Drilling Fluid Mud Cake:			
Drilling Fluid Mud Cake Resistivity:			
Drilling Fluid Mud Cake Temperature:			
Drilling Fluid Mud Cake Thickness:			
Drilling Fluid Mud Cake Density:			
Drilling Fluid Mud Cake Salinity:			
Drilling Fluid Mud Cake Level:			
Drilling Fluid Mud Cake Viscosity:			
Drilling Fluid Mud Cake Resistivity:			
Drilling Fluid Mud Cake Temperature:			
Drilling Fluid Mud Cake Filtrate:			
Drilling Fluid Mud Cake Filtrate Resistivity:			
Drilling Fluid Mud Cake Filtrate Temperature:			
Drilling Fluid Mud Cake Mud Cake:			
Drilling Fluid Mud Cake Mud Cake Resistivity:			
Drilling Fluid Mud Cake Mud Cake Temperature:			
Drilling Fluid Mud Cake Mud Cake Thickness:			
Drilling Fluid Mud Cake Mud Cake Density:			
Drilling Fluid Mud Cake Mud Cake Salinity:			
Drilling Fluid Mud Cake Mud Cake Level:			
Drilling Fluid Mud Cake Mud Cake Viscosity:			
Drilling Fluid Mud Cake Mud Cake Resistivity:			
Drilling Fluid Mud Cake Mud Cake Temperature:			
Drilling Fluid Mud Cake Mud Cake Filtrate:			
Drilling Fluid Mud Cake Mud Cake Filtrate Resistivity:			
Drilling Fluid Mud Cake Mud Cake Filtrate Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Thickness:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Density:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Salinity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Level:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Viscosity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Filtrate:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Filtrate Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Filtrate Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Thickness:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Density:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Salinity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Level:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Viscosity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Filtrate:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Filtrate Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Filtrate Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Thickness:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Density:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Salinity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Level:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Viscosity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Filtrate:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Filtrate Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Filtrate Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Thickness:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Density:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Salinity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Level:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Viscosity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Filtrate:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Filtrate Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Filtrate Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Thickness:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Density:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Salinity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Level:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Viscosity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Filtrate:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Filtrate Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Filtrate Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Thickness:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Density:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Salinity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Level:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Viscosity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Filtrate:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Filtrate Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Filtrate Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Thickness:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Density:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Salinity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Level:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Viscosity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Filtrate:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Filtrate Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Filtrate Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Thickness:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Density:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Salinity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Level:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Viscosity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Filtrate:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Filtrate Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Filtrate Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Thickness:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Density:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Salinity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Level:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Viscosity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Temperature:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Filtrate:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Filtrate Resistivity:			
Drilling Fluid Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Mud Cake Filtrate Temperature:			
Drilling Fluid Mud Cake



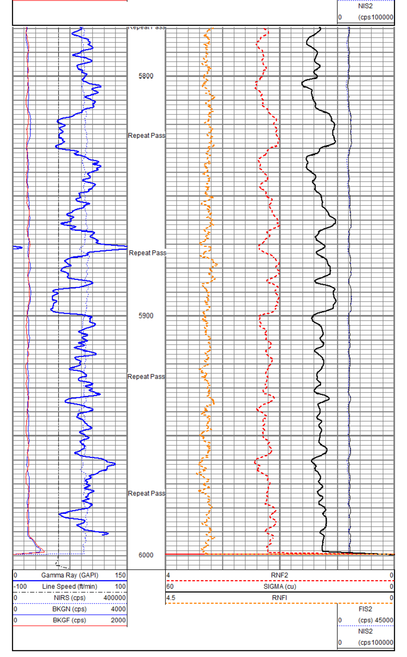
0	Gamma Ray (GAPI)	150
	Casing Collar Locator	
-100	Line Speed (ft/min)	100
0	NIRS (cps)	400000
0	BKGN (cps)	4000
0	BKGF (cps)	2000

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

Repeat Pass

RELIANCE WELLFIELD SERVICES

Database File	tep\ar 14-12\pnitep_ware sr 14-12_pn_01-29-18.db
Dataset Pathname	repeat.2
Presentation Format	ros_pdn_hunter
Dataset Creation	Mon Jan 29 13:30:48 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 (cps)	45000
	NIS2 (cps)	100000

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Titan CHD-1375 MOD Titan Modified 1-3/8" Assembled Electric Cable Head w/ 1" Fishing Neck	1.04	1.38	1.00
			HWS_TCU-001 (001705) HWS Telemetry Control Unit	2.30	1.69	10.87
TCUTEMP	14.69					
TCUVOLT	14.69					
GCL_CCL	13.97					
			HWS_GCL-001 (001681) HWS Gamma Ray Collar Locator (1.6875")	2.69	1.69	13.40
GCL_GR	12.50					
GCL_GR	12.50					
Long	6.25		HWS_RAS-RAS001 (003041) Hunter Well Sciences Pulsed Neutron Tool	11.75	1.69	55.82
Far	6.25					
Near	6.25					
Anci	6.25					
			HWS_TBN-001 (000001) HWS Terminator Bull Nose (1.6875")	0.25	1.69	0.99

Dataset:	tep_ware sr 14-12_pn_01-29-18.db: field/wellrun1/main.2
Total length:	18.03 ft
Total weight:	82.08 lb
O.D.:	1.69 in

Calibration Report

Database File	c:\programdata\warrior\data\tep\ar 14-12\pnitep_ware sr 14-12_pn_01-29-18.db
Dataset Pathname	main.2
Dataset Creation	Mon Jan 29 13:29:10 2018

Gamma Ray Calibration Report

Serial Number:	001681	
Tool Model:	001	
Performed:	(Not Performed)	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	
Calibrator Reading:	1.0	
Sensitivity:	1.0000	GAPI/

RELIANCE WELLFIELD SERVICES

Company	TEP Rocky Mountain LLC
Well	Ware SR 14-12
Field	Rulison
County	Garfield
State	Colorado