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Pioneer Energy Services

RADIAL BOND LOG WITH GAMMA RAY

Comp.	Anadarko
Well	Markham #1
Field	Johnstown
Co.	Weld
State	Colorado

Company Anadarko
Well Markham #1
Field Johnstown
County Weld State Colorado
Location: API # : 0512311077
Other Services
SEC 15 TWP 4N RGE 68W
Permanent Datum GR Elevation 4949'
Log Measured From KB 13' Above Perm. Datum
Drilling Measured From KB

Elevation	
K.B.	4962'
D.F.	4961'
G.L.	4949'

Date of Service	11DEC2019
Run Number	ONE
Depth Driller or PBTD	7280'
Depth Logger	1010'
Bottom Log Interval	1009'
Top Log Interval	SURFACE
Open Hole Size	N/A
Type Fluid	WATER
Fluid Level	SURFACE
Fluid Density	N/A
Max. Recorded Temperature	N/A
Max. Wellhead Pressure	ZERO
Wellhead Connection	N/A
Estimated Cement Top	SEE LOG
Unit Number	P53
Wireline Size	9/32
Location	FT. MORGAN
Recorded By	CORY BURNS
Witnessed By	TRAUX DEAL

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	8.625		SURFACE	505'
Production Casing	4.5	11.6	SURFACE	7200'
Liner Record				

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

THANK YOU FOR USING PIONEER ENERGY SERVICES!

Your Pioneer Energy Services Crew
Engineer: BURNS
Operator:
Operator: MARSHAL
Operator:

Tool Data - Services Serial Number

Log Variables

Database C:\ProgramData\Warrior\Data\markham #1.db
Dataset field/well/run1/pass3/_vars_

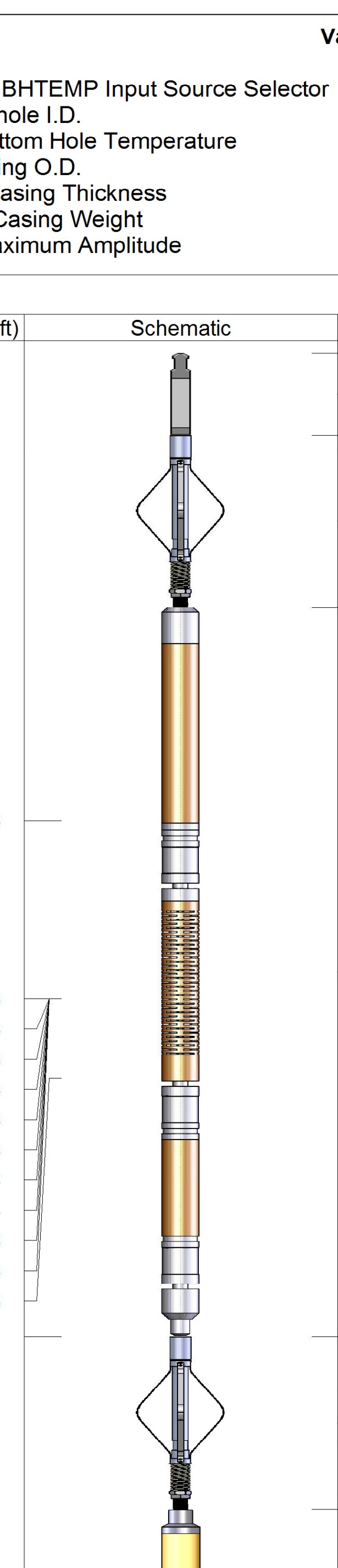
Top - Bottom

BHTEMP_Src	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	CASEWGHT lb/ft	MAXAMPL mV
TEMP	7.875	100	4.5	0	11.6	81.6

MINAMPL mV	MINATTN db/ft	PERFS	PPT usec	SRFTEMP degF	TDEPTH ft
1	0.08	0	0	0	0

Variable Description

BHTEMP_Src : BHTEMP Input Source Selector
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
CASEWGHT : Casing Weight
MAXAMPL : Maximum Amplitude
MINAMPL : Minimum Amplitude
MINATTN : Minimum Attenuation
PERFS : Perforation Flag
PPT : Predicted Pipe Time
SRFTEMP : Surface Temperature
TDEPTH : Total Depth

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Cable Head-Titan 143 1 7/16" Titan Cable Head (1" Fish Top)	1.03	1.43	2.00
			Centralizer-169 Titan Non-ADJ Titan 1 11/16" Non Adjustable Centralizer	2.17	2.88	22.00
TEMP	13.46		SCBL-275 Probe w Temp New Mod (FW1-9.1738) Probe Radii Bond Tool with Temperature		2.75	95.00
WVFS8	11.23					
WVFS7	11.23					
WVFS6	11.23					
WVFS5	11.23					
WVFS4	11.23					
WVFS3	11.23					
WVFS2	11.23					
WVFS1	11.23					
WVFCAL	11.23					
WVF3FT	11.23					
WVF5FT	10.23					
HEADVOLT	6.98		Centralizer-169 Titan Non-ADJ Titan 1 11/16" Non Adjustable Centralizer	2.17	2.88	22.00
CCL	3.91		GR_CCL-275 Probe GR-CCL Dig (1112114.54 Probe 2 3/4" Gamma Ray / CCL Digital		2.75	60.00
GR	1.17		Bullnose-Titan GO Pin Pressure Cap	0.27	1.38	1.00

Dataset: markham #1.db: field/well/run1/pass4
Total length: 19.34 ft
Total weight: 202.00 lb
O.D.: 2.88 in

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MAIN PASS

ZERO PSI ON WELL

Database File	markham #1.db
Dataset Pathname	pass4
Presentation Format	pinr_scbl
Dataset Creation	Sun Dec 11 08:35:48 2016
Charted by	Depth in Feet scaled 1:240

3' Travel Time 260 (usec) 160
Collar Locator -9 1
Gamma Ray 0 (GAPI) 150
TEMP (degF)
Line Tension 0 (3000
3' Amplitude 0 (mV) 100
3' Amplified Amplitude X 5 0 (mV) 20
Bond Index 1 0
Sector Amplitude Average 0 150
Sector Amplitude Maximum 0 150
Sector Amplitude Minimum 0 150
200 VDL 1200
1 Sector Map 8
10 60

3' Travel Time 260 (usec) 160
Collar Locator -9 1
Gamma Ray 0 (GAPI) 150
TEMP (degF)
Line Tension 0 (3000
3' Amplitude 0 (mV) 100
3' Amplified Amplitude X 5 0 (mV) 20
Bond Index 1 0
Sector Amplitude Average 0 150
Sector Amplitude Maximum 0 150
Sector Amplitude Minimum 0 150
200 VDL 1200
1 Sector Map 8
10 60

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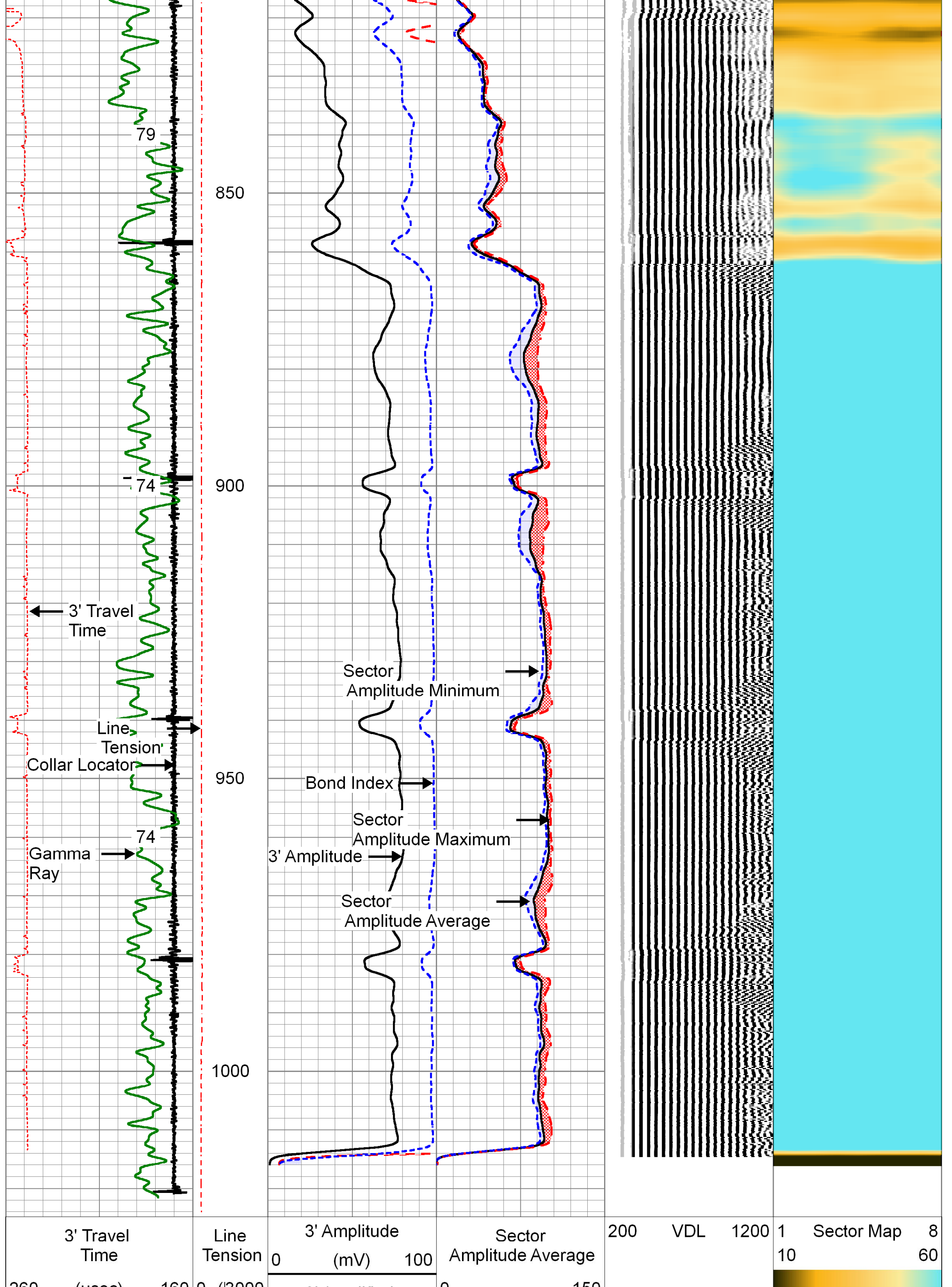
REPEAT PASS

ZRO PSI ON WELL

Database File	markham #1.db
Dataset Pathname	pass3
Presentation Format	pinr_scbl
Dataset Creation	Sun Dec 11 08:30:47 2016
Charted by	Depth in Feet scaled 1:240

3' Travel Time 260 (usec) 160
Collar Locator -9 1
Gamma Ray 0 (GAPI) 150
TEMP (degF)
Line Tension 0 (3000
3' Amplitude 0 (mV) 100
3' Amplified Amplitude X 5 0 (mV) 20
Bond Index 1 0
Sector Amplitude Average 0 150
Sector Amplitude Maximum 0 150
Sector Amplitude Minimum 0 150
200 VDL 1200
1 Sector Map 8
10 60



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County	Weld
State	Colorado