J-W WIRELINE COMPANY

GAMMA RAY CCL CEMENT BOND VDL SECTOR MAP

Company CARRIZO OIL & GAS INC
Well BRINGELSON RANCH 6-34-9-58
Field WILDCAT
County WELD
State COLORADO

Company	CARRIZO OIL & GAS INC
Well	BRINGELSON RANCH 6-34-9-58
Field	WILDCAT
County	WELD
State	COLORADO

Location:
API #: 05-123-38370
Other Services

SEC TWP RGE

Permanent Datum	GL	Elevation	K.B.
Log Measured From			D.F.
Drilling Measured From			G.L.

Date	21-AUGUST-2014
Run Number	ONE
Depth Driller	---
Depth Logger	5769
Bottom Logged Interval	5766
Top Log Interval	SURFACE
Open Hole Size	---
Type Fluid	WATER
Density / Viscosity	---
Max. Recorded Temp.	---
Estimated Cement Top	650
Time Well Ready	---
Time Logger on Bottom	---
Equipment Number	2829
Location	STERLING, CO
Recorded By	BRIAN HECHT
Witnessed By	KIRK WILLIAMS

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	7.0			
Liner	4.5			

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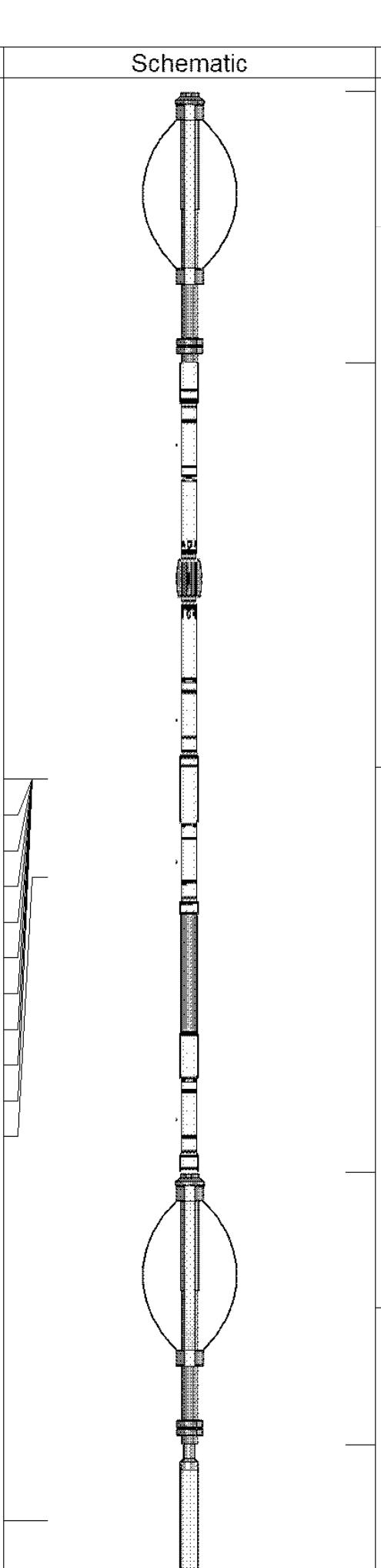
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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

LOOGGED UNDER 1000 PSI

Database File: bringelson ranch 6-34-9-58.db
Dataset Pathname: pass3
Presentation Format: scbl02
Dataset Creation: Thu Aug 21 15:46:50 2014 by Log Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		CENT-Probe (Probe1) PROBE 2.75 CENT	3.00	2.75	25.00
WVF3FT WVFCAL WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 WVF5FT	12.08 12.08 12.08 12.08 12.08 12.08 12.08 12.08 12.08 12.08 11.00	RBT-Probe (4.5040904) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
		CENT-Probe (Probe2) PROBE 2.75 CENT	3.00	2.75	25.00
CCL	3.92				
GR	2.54	GR-Probe275dig (pr051112) Probe Digital Gamma CCL	4.75	2.75	57.00

Dataset:	bringelson ranch 6-34-9-58.db: field/well/run1/pass3
Total Length:	19.67 ft
Total Weight:	197.00 lb
O.D.	2.75 in

Calibration Report

Database File:	bringelson ranch 6-34-9-58.db
Dataset Pathname:	pass3
Dataset Creation:	Thu Aug 21 15:46:50 2014 by Log Std Casedhole 10121

Gamma Ray Calibration Report

Type / Serial: Probe275dig / pr051112

SHOP CALIBRATION Sun Jun 13 14:33:21 1993

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		1.0000			GAPI/cps

PRIMARY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

BEFORE SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

AFTER SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Segmented Cement Bond Log Calibration Report

Serial Number:	4.5040904	
Tool Model:	Probe	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	111.100	ft

Master Calibration, performed Thu Aug 21 15:29:55 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	1.500	1.000	62.165	40.766	1.000
CAL	0.000	1.877				
5'	0.000	1.459	1.000	62.165	41.918	1.000
SUM						
S1	0.000	1.440	0.000	62.000	43.043	0.000
S2	0.000	1.533	0.000	62.000	40.434	0.000
S3	0.000	1.594	0.000	62.000	38.886	0.000
S4	0.000	1.577	0.000	62.000	39.316	0.000
S5	0.000	1.487	0.000	62.000	41.702	0.000
S6	0.000	1.408	0.000	62.000	44.027	0.000
S7	0.000	1.374	0.000	62.000	45.110	0.000
S8	0.000	1.379	0.000	62.000	44.972	0.000

Internal Reference Calibration, performed Wed Dec 31 18:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.000	1.877	1.000	0.000

Air Zero Calibration, performed Wed Apr 02 16:37:00 2014:

	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