J-W WIRELINE COMPANY

GAMMA RAY CCL
CEMENT BOND VDL
SECTOR MAP

Company KERR-MCGEE OIL & GAS ONSHORE LP
Well SHURVIEW 13N-3HZ
Field WATTENBERG
County WELD
State COLO

Company	KERR-MCGEE OIL & GAS ONSHORE LP
Well	SHURVIEW 13N-3HZ
Field	WATTENBERG
County	WELD
State	COLO
Location:	API #: 05123361220000 NESE SEC 3 TWP 5N RGE 67W
Other Services	
Permanent Datum	Elevation 4888
Log Measured From	KB
Drilling Measured From	KB
Elevation	K.B. 4905 D.F. G.L. 4888

Date	MAY 16, 2013
Run Number	ONE
Depth Driller	
Depth Logger	
Bottom Logged Interval	6593
Top Log Interval	SURFACE
Open Hole Size	
Type Fluid	WATER
Density / Viscosity	
Max. Recorded Temp.	
Estimated Cement Top	1000
Time Well Ready	
Time Logger on Bottom	
Equipment Number	2269
Location	STERLING
Recorded By	MIKE ADAMSON
Witnessed By	TJ YATES

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String	7			
Production String				
Liner				

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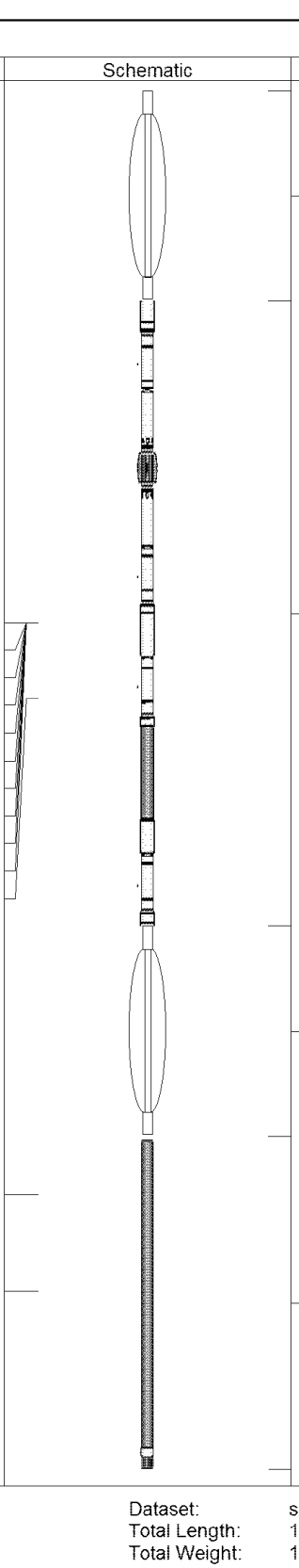
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

LOGGED UNDER 2800 PSI
PRESSURE BLED OFF AT 60'



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: sureview 13n.db: field/well/run1/pass6
Total Length: 19.67 ft
Total Weight: 197.00 lb
O.D. 2.75 in

Database File: sureview 13n.db
Dataset Pathname: pass6
Presentation Format: scbl02
Dataset Creation: Thu May 16 08:55:21 2013 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: sureview 13n.db
Dataset Pathname: pass6
Dataset Creation: Thu May 16 08:55:21 2013 by Log SCH 111116

Gamma Ray Calibration Report

Type / Serial: Probe275dig / pr051112

SHOP CALIBRATION Sun Jun 13 13:33:21 1993

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

PRIMARY VERIFICATION

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

BEFORE SURVEY VERIFICATION

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

AFTER SURVEY VERIFICATION

	Counts/Sec.	Gain	Offset	Jig	Units
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:	899.892	ft

Master Calibration, performed Thu May 16 08:29:37 2013:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	1.267	1.000	62.165	48.340	0.903
CAL	0.000	1.948				
5'	0.000	1.425	1.000	62.165	42.925	1.000
SUM						
S1	0.000	1.911	0.000	62.000	32.450	0.000
S2	0.000	1.661	0.000	62.000	37.335	0.000
S3	0.000	1.182	0.000	62.000	52.462	0.000
S4	0.000	0.996	0.000	62.000	62.225	0.000
S5	0.000	1.001	0.000	62.000	61.929	0.000
S6	0.000	1.077	0.000	62.000	57.545	0.000
S7	0.000	1.236	0.000	62.000	50.174	0.000
S8	0.000	1.658	0.000	62.000	37.389	0.000

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.000	1.948	1.000	0.000

Air Zero Calibration, performed Thu May 16 07:48:23 2013:

	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