J-W WIRELINE COMPANY

CEMENT BOND LOG
GAMMA RAY VDL
COLLAR CORRELATION
SECTOR MAP

Company	KERR-McGEE OIL AND GAS ONSHORE LP
Well	WARDELL 29-29
Field	WATTENBERG
County	WELD
State	COLORADO

Company KERR-McGEE OIL AND GAS ONSHORE LP
Well WARDELL 29-29
Field WATTENBERG
County WELD State COLORADO

Location: API # : 05-123-24091-0000
SHL: 566' FSL & 860' FWL
SW SW
SEC 20 TWP 3N RGE 65W

Other Services

Permanent Datum	GL	Elevation	4912	Elevation
Log Measured From	KB			K.B. 4928
Drilling Measured From	KB			D.F. 4927
				G.L. 4912

Date	MAY 30, 2014
Run Number	ONE
Depth Driller	7525
Depth Logger	1632
Bottom Logged Interval	1630
Top Log Interval	320
Open Hole Size	7 7/8
Type Fluid	WATER
Density / Viscosity	--
Max. Recorded Temp.	96 F
Estimated Cement Top	520
Time Well Ready	--
Time Logger on Bottom	--
Equipment Number	2400
Location	STERLING CO.
Recorded By	PHIL LOPEZ
Witnessed By	MARK VANDAGRIFF

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8.63	24.00	SURFACE	819
Prot. String				
Production String	4.50	11.60	SURFACE	7514
Liner				

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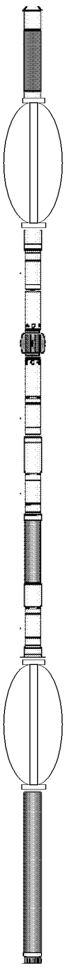
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

THANK YOU FOR CHOOSING J-W WIRELINE

Sensor	Offset (ft)
CCL	19.57
TEMP	12.78
WVFS1	11.49
WVFS2	11.49
WVFS3	11.49
WVFS4	11.49
WVFS5	11.49
WVFS6	11.49
WVFS7	11.49
WVFS8	11.49
WVF3FT	10.74
WVFCAL	10.74
WVFSYNC	10.74
WVF5FT	9.74
WVFTEMP	6.41
GR	1.06

Schematic

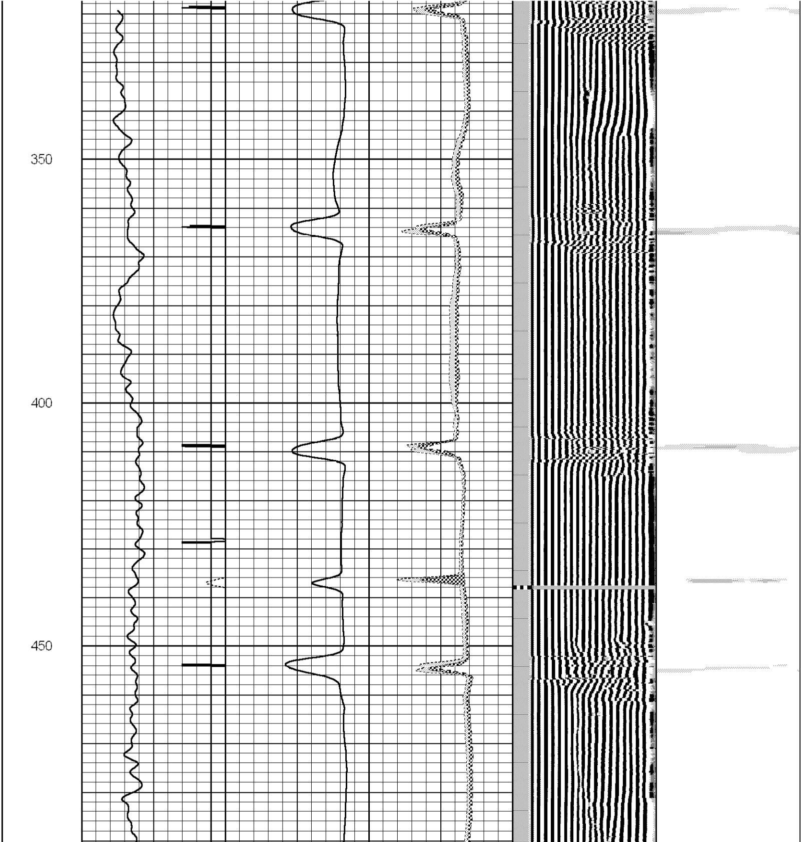


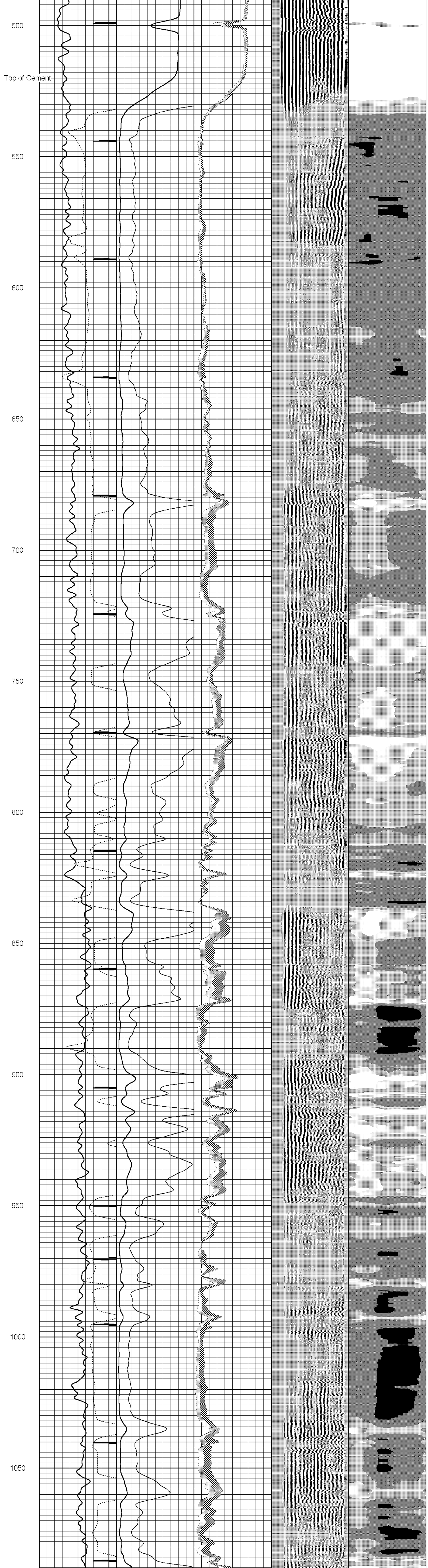
Description	Len (ft)	OD (in)	Wt (lb)
CCL-275tekco (2.75TEKCO) 2 3/4 TEK CCL Earth Mag	1.96	2.75	20.00
CENT-TEKCO (101)	2.73	2.75	10.00
275CTEKSECWTWSLCANS-275RIB (123 2 3/4" (R.I.B.) TOOL 3FT, 5FT and 8EA RIB SIGNALS 400 DEG "F" @20K PSI With Sliding Cans For Pressure Ballance	9.13	2.75	102.00
CENT-TEKCO (101)	2.73	2.75	10.00
GR-TEKCO (101sgr)	3.68	2.75	30.00

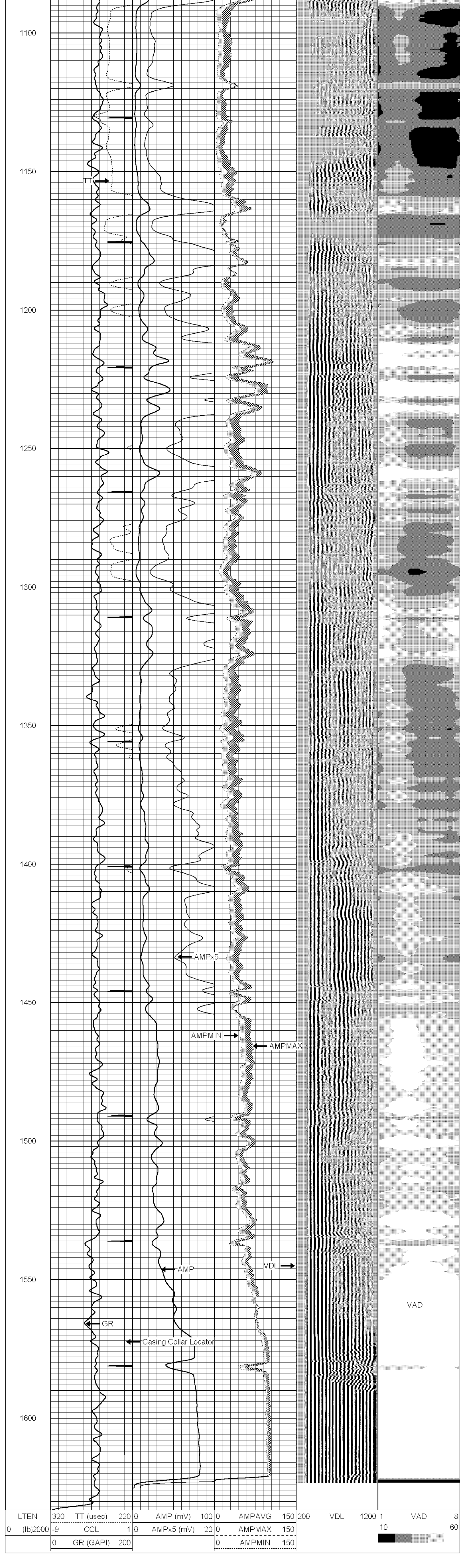
Dataset: wardell 29-29.db: field/well/run1/pass3
Total Length: 20.22 ft
Total Weight: 172.00 lb
O.D. 2.75 in

Database File:	wardell 29-29.db
Dataset Pathname:	pass3
Presentation Format:	scbl
Dataset Creation:	Fri May 30 07:13:40 2014 by Log SCH 111116
Charted by:	Depth in Feet scaled 1:240

LTEN	320 TT (usec) 220	0 AMP (mV) 100	0 AMPAVG 150	200 VDL 1200	1 VAD 8
0 (lb)2000	-9 CCL 1	0 AMPx5 (mV) 20	0 AMPMAX 150		10 60
	0 GR (GAPI) 200		0 AMPMIN 150		







Calibration Report

Database File: wardell 29-29.db
Dataset Pathname: pass3
Dataset Creation: Fri May 30 07:13:40 2014 by Log SCH 111116

Gamma Ray Calibration Report

Serial Number: 101sgr
Tool Model: TEKCO
Performed: Wed Oct 16 08:18:28 2013

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 1.0000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 1234
Tool Model: 275RIB

Calibration Casing Diameter: 4.500 in
Calibration Depth: 222.250 ft

Master Calibration, performed Fri May 30 07:02:01 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	2.138	2.000	81.196	37.036	2.000
CAL	0.000	1.762				
5'	0.000	2.185	2.000	81.196	36.249	2.000
SUM						
S1	0.000	2.403	0.000	100.000	41.622	0.000
S2	0.000	2.246	0.000	100.000	44.527	0.000
S3	0.000	2.243	0.000	100.000	44.591	0.000
S4	0.000	2.337	0.000	100.000	42.786	0.000
S5	0.000	2.254	0.000	100.000	44.369	0.000
S6	0.000	2.168	0.000	100.000	46.134	0.000
S7	0.000	2.204	0.000	100.000	45.374	0.000
S8	0.000	2.296	0.000	100.000	43.545	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	1.762	1.000	0.000

Air Zero Calibration, performed Mon May 05 01:51:06 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

Temperature Calibration Report

Serial Number: 1234
Tool Model: 275RIB
Performed: Fri May 30 06:54:39 2014

	Reference	Reading
Low Reference:	75.00 degF	300.00 usec
High Reference:	400.00 degF	1282.00usec

Gain: 0.33
Offset: -9.00
Delta Spacing 1