RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

CEMENT BOND LOG
GAMMA RAY / CCL

Company	OXY USA, WTP, LP
Well	STITES 20 - 8B
Field	BUZZARD
County	MESA
State	COLORADO
Location:	API # : 05 - 077 - 09724 - 00 SHL: 1474' FNL & 1013' FEL BHL: 2099' FNL & 0671' FEL LAT: 39.265348 LONG: -107.899898 SEC 20 TWP 9S RGE 94W
Other Services	3.75" GAUGE RING
Permanent Datum	G.L.
Elevation	6664'
Log Measured From	K.B.
Ft Above PD	20'
Drilling Measured From	K.B.
Elevation	K.B. 6684' D.F. 6683' G.L. 6664'

Date	06 - 15 - 2015	
Run Number	ONE	
Depth Driller	6300'	
Present Depth Driller	NA	
Depth Logger	6241'	
Bottom Logged Interval	6240'	
Top Log Interval	SURFACE	
Fluid Level	SURFACE	
Type Fluid	WATER	
Max. Recorded Temp.	203.4° F	
Estimated Cement Top	110'	
Equipment Number	219 / 310	
Location	GRAND JCT.	
Recorded By	INGRAM	FERNANDEZ
Witnessed By	MR MCKINNEY	

Borehole Record				Casing Record		
Run Number	Bit	From	To	Size	Weight	From	To
				8.625"	32#	SURFACE	1532'
				4.5"	11.6#	SURFACE	6283'

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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.

WARRIOR 7.0 SOFTWARE - Comments

NOTE: LOG DEPTH WAS CORRELATED USING 20' KB

SHORT JOINTS: 3158' TO 3186' & 5249' TO 5276'

MAIN PASS 5" = 100'
CSG PSI = STATIC

Calibration Report

Database File: 06152015_oxy_stites_20-08b.db
Dataset Pathname: cal/pass
Dataset Creation: Mon Jun 15 18:33:37 2015

Temperature Calibration Report

Serial Number: 10008207
Tool Model: 016
Performed: Mon Apr 30 16:22:18 2012

Point #	Reading		Reference	
1	11649.00	cps	65.14	degF
2	18183.00	cps	105.26	degF
3	29168.00	cps	174.16	degF
4	40750.00	cps	246.15	degF
5	51960.00	cps	317.35	degF
6	57688.00	cps	353.34	degF
7		cps		degF
8		cps		degF
9		cps		degF
10		cps		degF

Gamma Ray Calibration Report

Serial Number: 10007620
Tool Model: 020
Performed: Sun Jun 13 13:33:21 1993

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: 1122
Tool Model: 004

Calibration Casing Diameter: 4.500 in
Calibration Depth: 66.938 ft

Master Calibration, performed Mon Jun 15 14:54:40 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.011	0.618	1.000	81.196	81.807	1.207
5FT	0.013	0.852	1.000	81.196	71.638	1.711
S1	0.010	0.616	0.000	100.000	165.059	-1.729
S2	0.009	0.585	0.000	100.000	173.369	-1.484
S3	0.010	0.632	0.000	100.000	160.845	-1.583
S4	0.008	0.627	0.000	100.000	161.626	-1.353
S5	0.010	0.665	0.000	100.000	152.554	-1.503
S6	0.010	0.652	0.000	100.000	155.843	-1.543
S7	0.011	0.646	0.000	100.000	157.669	-1.780
S8	0.010	0.631	0.000	100.000	161.124	-1.605

Calibration Report

Serial Number: 1122
Tool Model: 004
Performed:

	Reference (degF)	Reading ()
Low:	0.000	0.000
High:	1.000	1.000
	Gain = 1.000	Offset= 0.000

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MAIN PASS

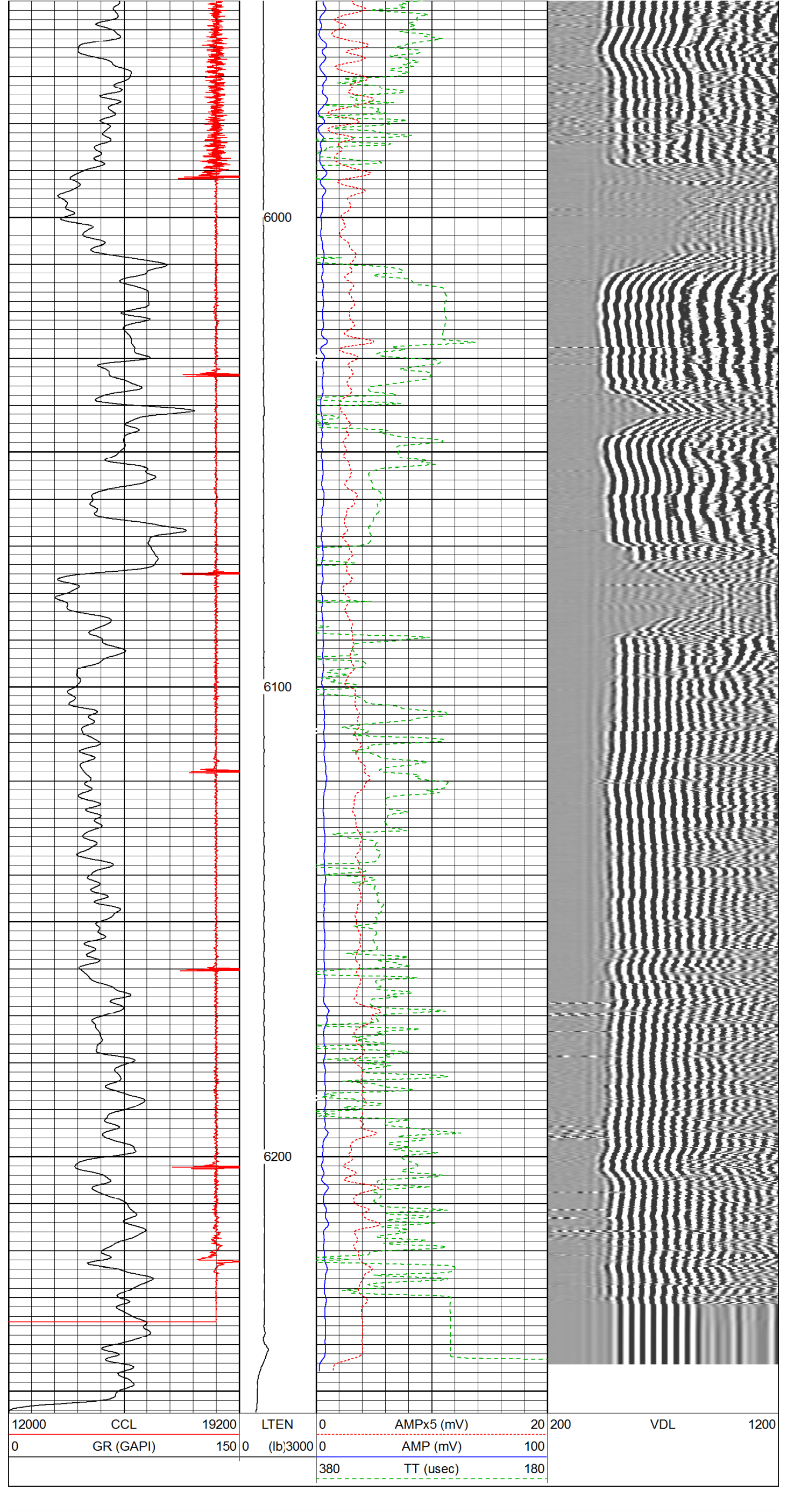
Database File: 06152015_oxy_stites_20-08b.db
Dataset Pathname: main/pass1
Presentation Format: rmws_dsc
Dataset Creation: Mon Jun 15 12:06:30 2015
Charted by: Depth in Feet scaled 1:240

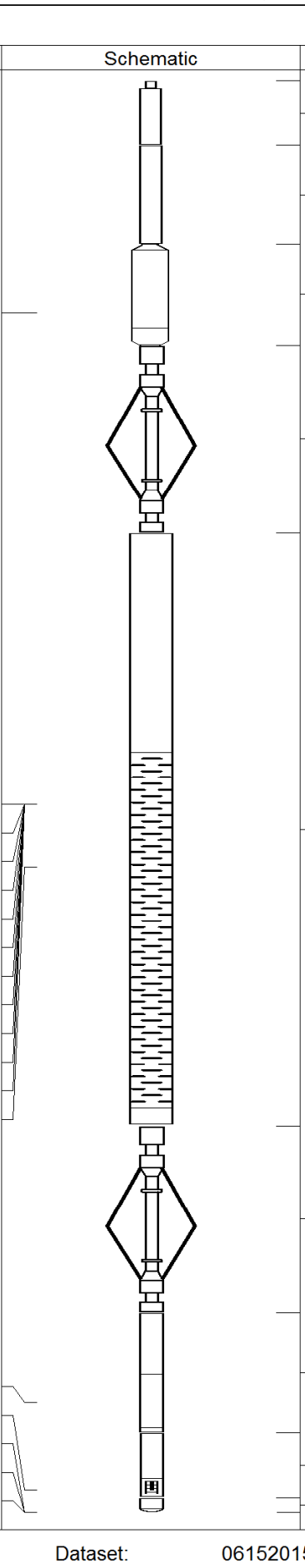
12000	CCL	19200	LTEN	0	AMPx5 (mV)	20	200	VDL	1200
0	GR (GAPI)	150	0 (lb) 2000	0	AMP (mV)	100			
				380	TT (usec)	180			

REPEAT PASS

ROCKY MOUNTAIN WIRELINE SERVICE

Database File:	06152015_oxy_stites_20-08b.db
Dataset Pathname:	repeat/pass2
Presentation Format:	rmws_dsc
Dataset Creation:	Mon Jun 15 11:40:32 2015 by Calc SCH 120430
Charted by:	Depth in Feet scaled 1:240



Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CHD-AES (000001) Cable Head	1.04	1.69	2.00
			XTU-002 (216414) Crossover Ultrawire Toolbus To Ultralink	1.58	1.69	6.50
CCL	19.17		CCL-028 (1036) CCL UW 3 1/8" SONDEX	1.61	3.13	36.00
			PRC-022 (215770) (6 ARM 2 3/8" ROLLER CENTRALIZER SONDEX)	3.00	2.38	21.40
WVF3FT WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 CBLTEMP CBLROT WVF5FT	11.32 11.32 11.32 11.32 11.32 11.32 11.32 11.32 11.32 11.32 11.32 10.32		RBT-004 (1122) Radial Bond Tool (UW 3 1/8)	9.47	3.13	140.00
			PRC-022 (215771) (6 ARM 2 3/8" ROLLER CENTRALIZER SONDEX)	3.00	2.38	21.40
GR	1.76		PGR-020 (10007620) Production Gamma Ray	1.93	1.69	9.50
TEMP	0.37		PRT-016 (10008207) Platinum Resistance Thermometer	1.04	1.69	6.00
TSTAMP ITEMPX HVOLTX	0.00 0.00 0.00		BUL-006 (212965) Bullnose Terminator	0.22	1.69	1.20

Dataset:	06152015_oxy_stites_20-08b.db: field/well/main/pass1
Total Length:	22.90 ft
Total Weight:	244.00 lb
O.D.	3.13 in

ROCKY MOUNTAIN WIRELINE SERVICE

Company	OXY USA, WTP, LP
Well	STITES 20 - 8B
Field	BUZZARD
County	MESA
State	COLORADO