ROCKY MOUNTAIN WIRELINE SERVICE

CEMENT BOND LOG
GAMMA RAY / CCL

Company	**OXY USA, WTP, LP**
Well	**STITES 20 - 7B**
Field	**BUZZARD**
County	**MESA**
State	**COLORADO**

Location: API # : 05 - 077 - 09520 - 00

SHL: 1476' FNL & 1003' FEL
LAT: 39.265364 LONG: -107.900043

SEC 20 TWP 9S RGE 94W

Other Services
3.75" GAUGE RING

Permanent Datum	G.L.	Elevation	6666'
Log Measured From	K.B.	Ft Above PD	20'
Drilling Measured From	K.B.		

Elevation
K.B. 6686'
D.F. 6685'
G.L. 6666'

Date	06 - 15 - 2015		
Run Number	ONE		
Depth Driller	6340'		
Present Depth Driller	NA		
Depth Logger	6302'		
Bottom Logged Interval	6301'		
Top Log Interval	SURFACE		
Fluid Level	SURFACE		
Type Fluid	WATER		
Max. Recorded Temp.	201.7° F		
Estimated Cement Top	118'		
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	1526'
				4.5"	11.6#	SURFACE	6310'

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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: 3018' TO 3047' & 5254' TO 5281'

MAIN PASS 5" = 100'
CSG PSI = STATIC

Calibration Report

Database File: 06152015_oxy_stites_20-07b.db
Dataset Pathname: main/pass2
Dataset Creation: Mon Jun 15 18:28:32 2015 by Calc SCH 120430

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 18:28:06 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	-0.003	0.978	1.000	81.196	81.807	1.207
5FT	-0.010	1.110	1.000	81.196	71.638	1.711
S1	-0.066	0.979	0.000	100.000	95.725	6.297
S2	-0.059	0.914	0.000	100.000	102.800	6.021
S3	-0.032	0.960	0.000	100.000	100.757	3.258
S4	-0.013	0.954	0.000	100.000	103.430	1.353
S5	-0.035	1.035	0.000	100.000	93.465	3.260
S6	-0.028	1.033	0.000	100.000	94.250	2.632
S7	-0.034	1.042	0.000	100.000	92.898	3.172
S8	-0.052	1.007	0.000	100.000	94.440	4.931

Calibration Report

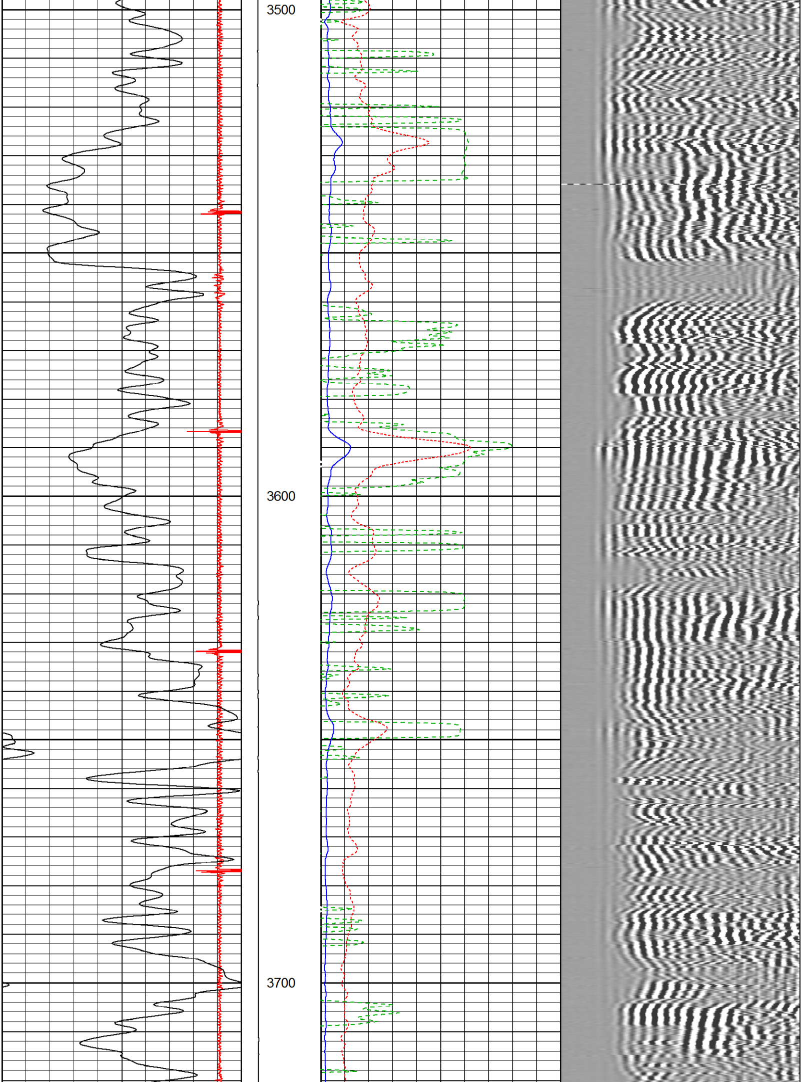
Serial Number: 1122
Tool Model: 004
Performed:

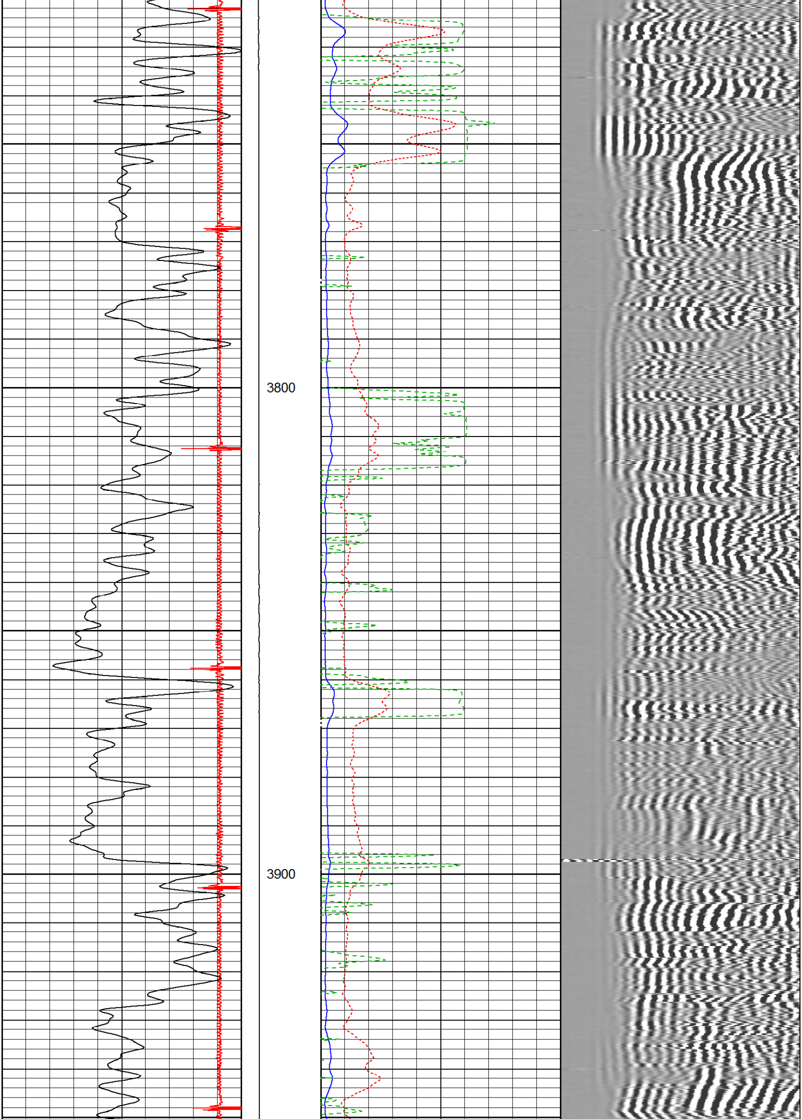
	Reference (degF)	Reading ()
Low:	0.000	0.000
High:	1.000	1.000
	Gain = 1.000	Offset= 0.000

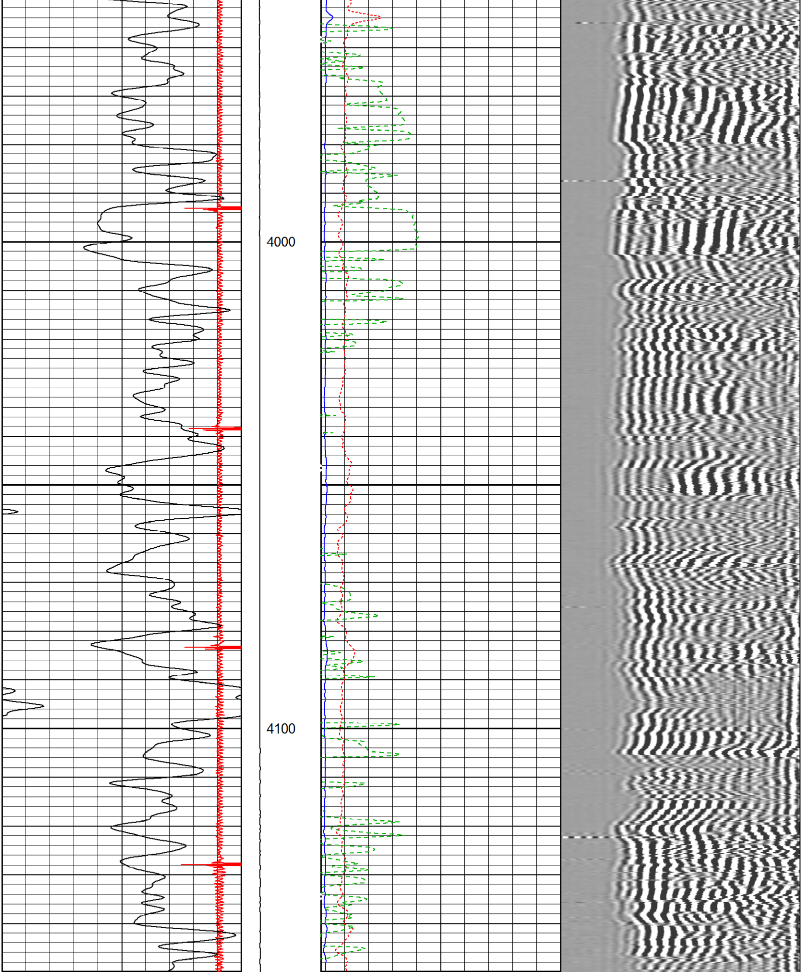
ROCKY MOUNTAIN WIRELINE SERVICE

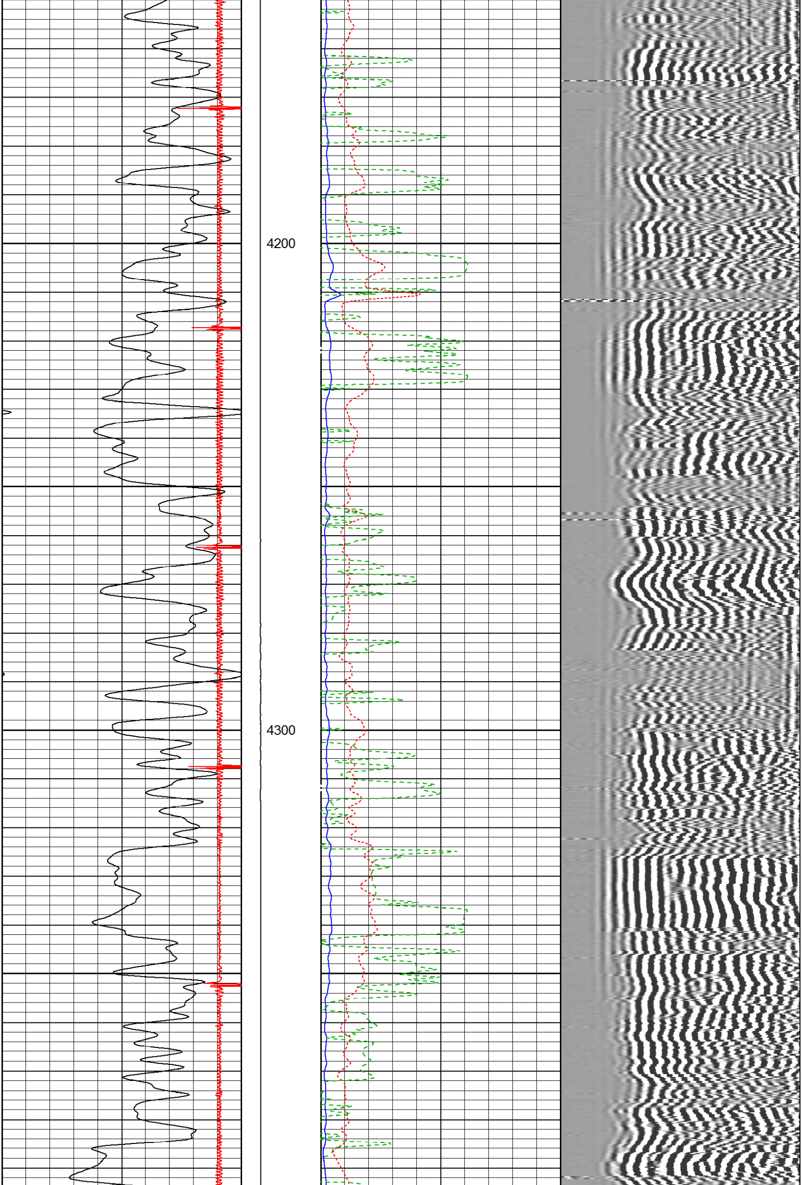
MAIN PASS

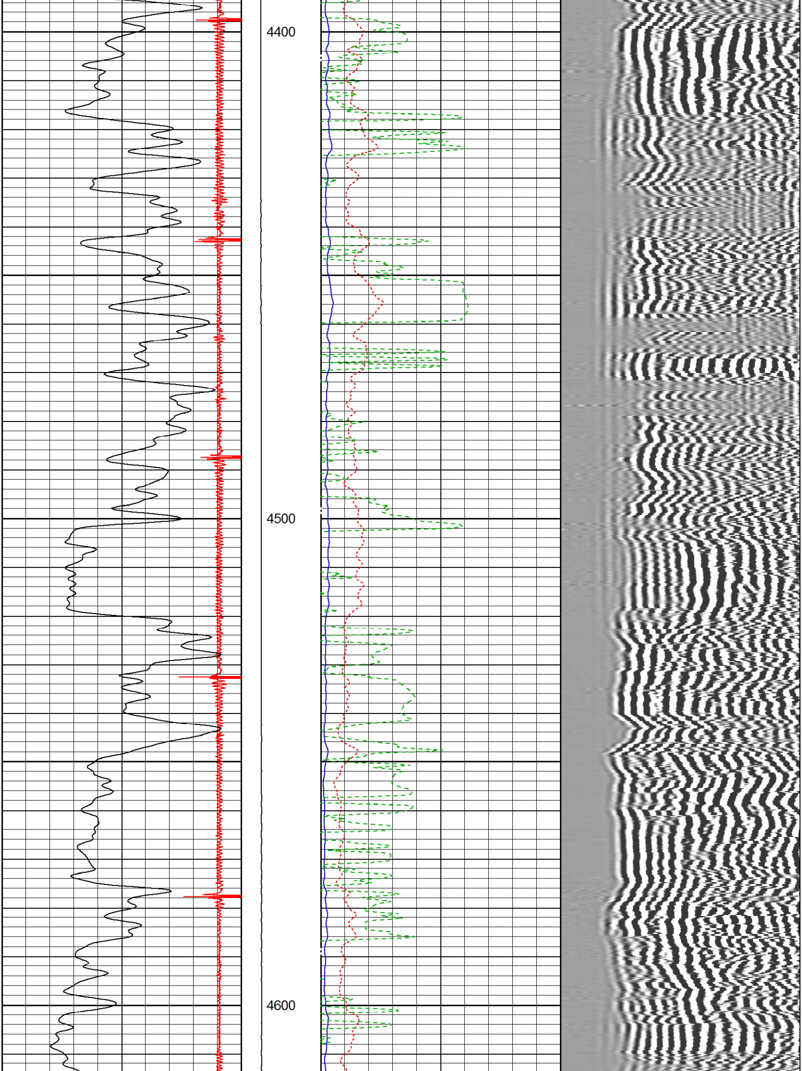
Database File: 06152015_oxy_stites_20-07b.db
Dataset Pathname: main/pass2
Presentation Format: rmws_dsc
Dataset Creation: Mon Jun 15 18:28:32 2015 by Calc SCH 120430
Charted by: Depth in Feet scaled 1:240

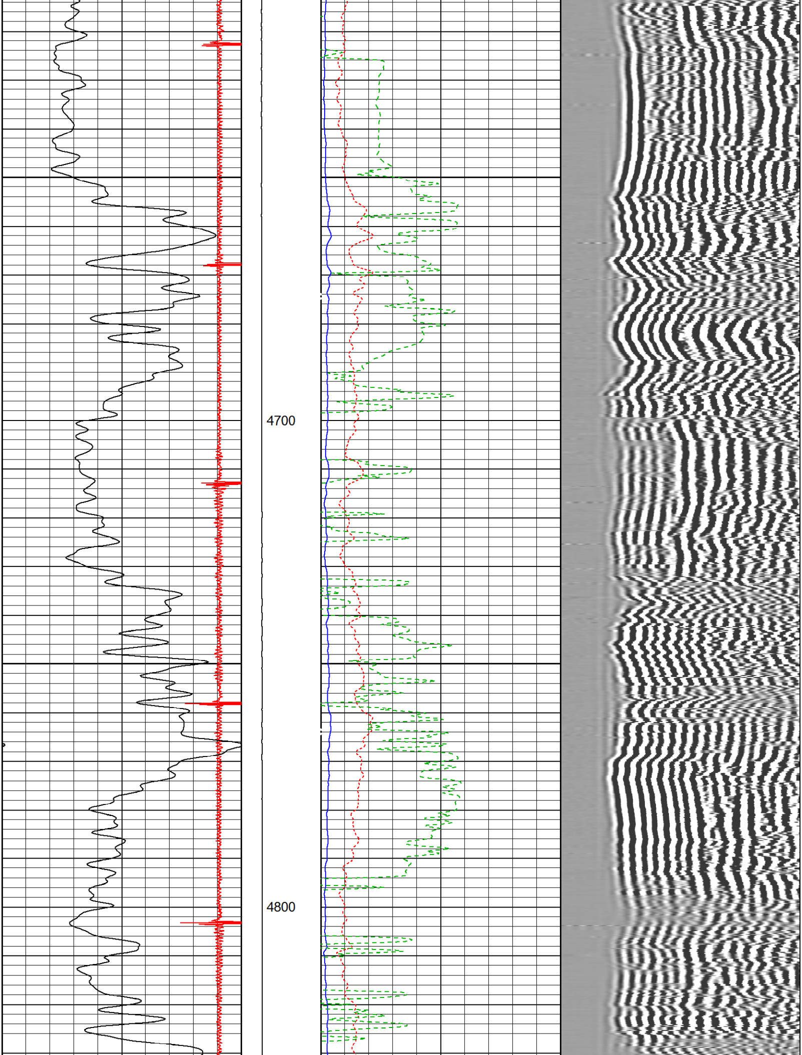


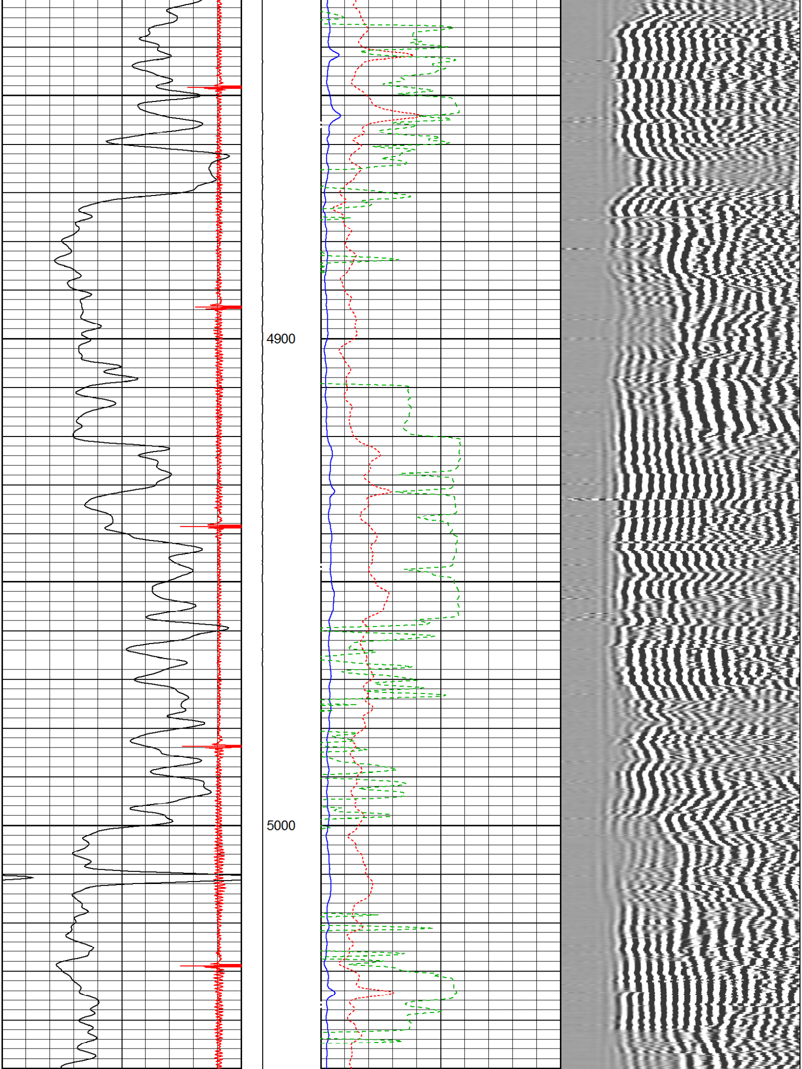


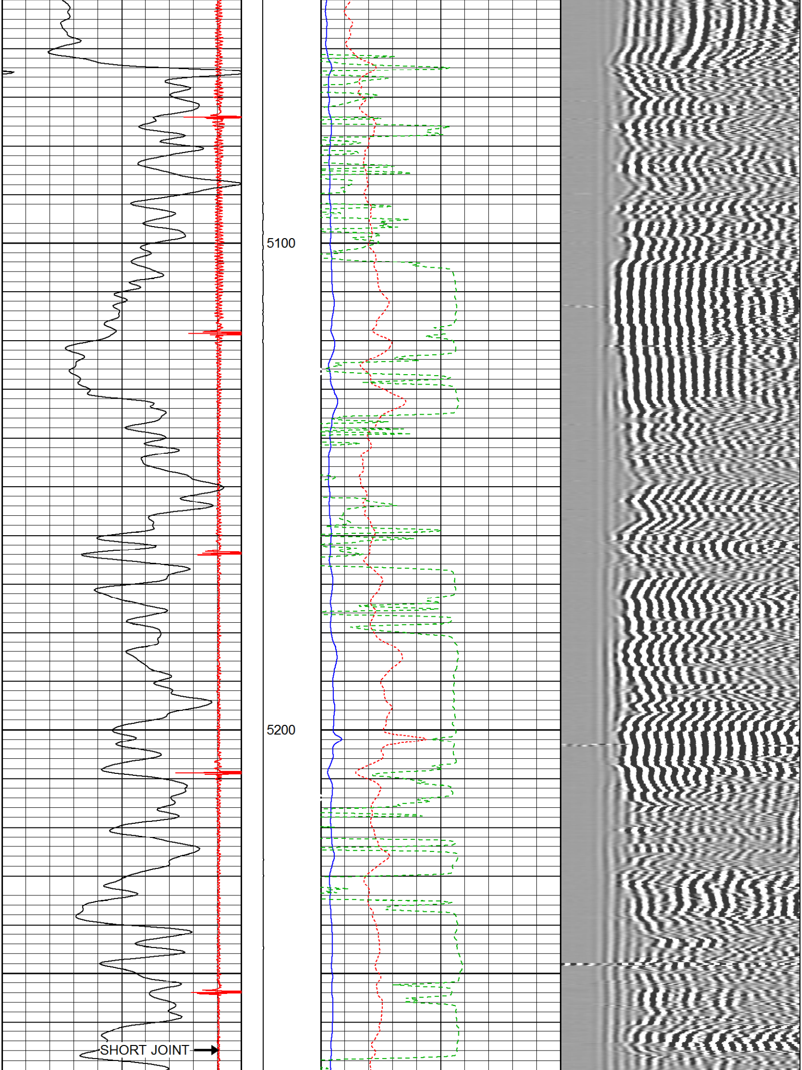


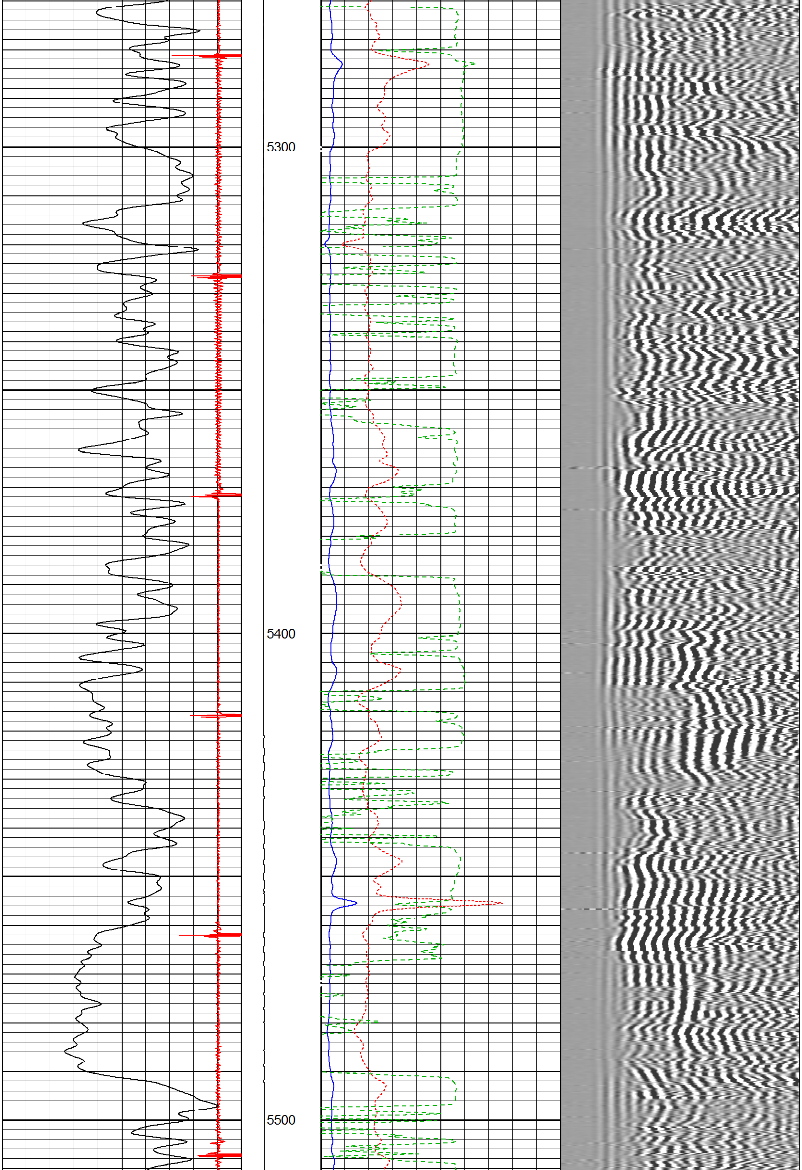


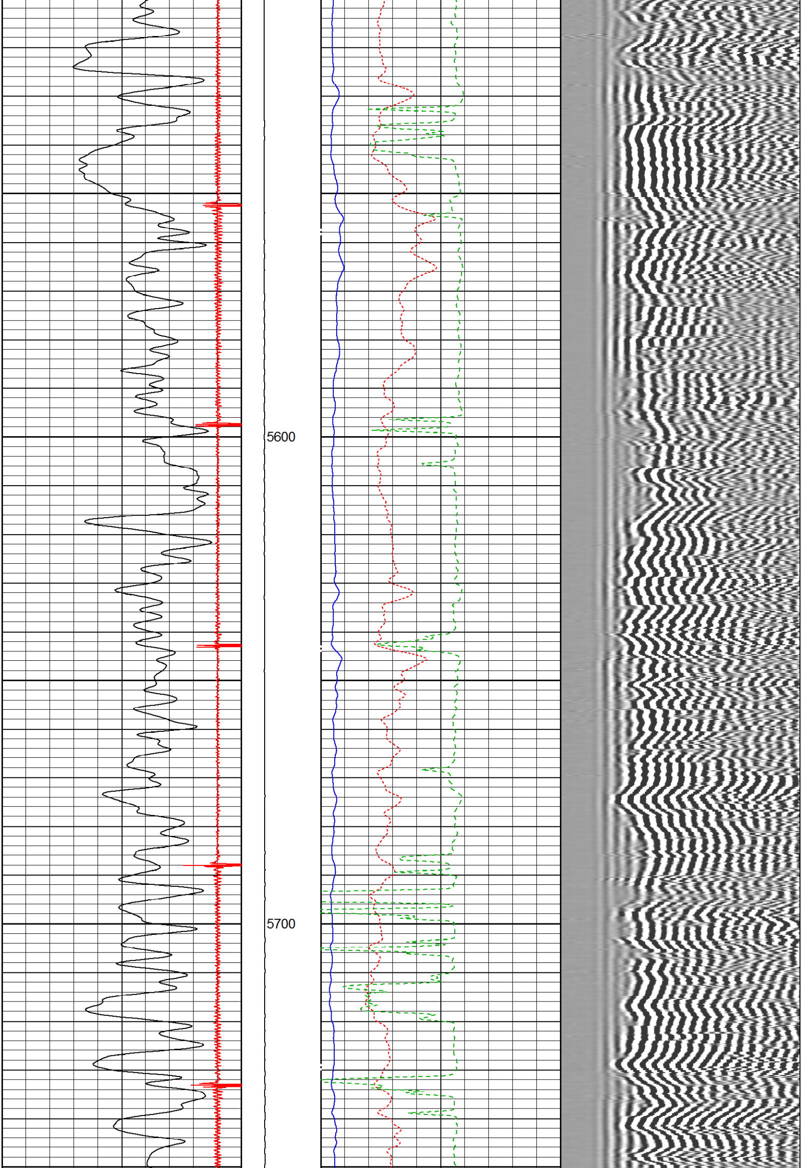


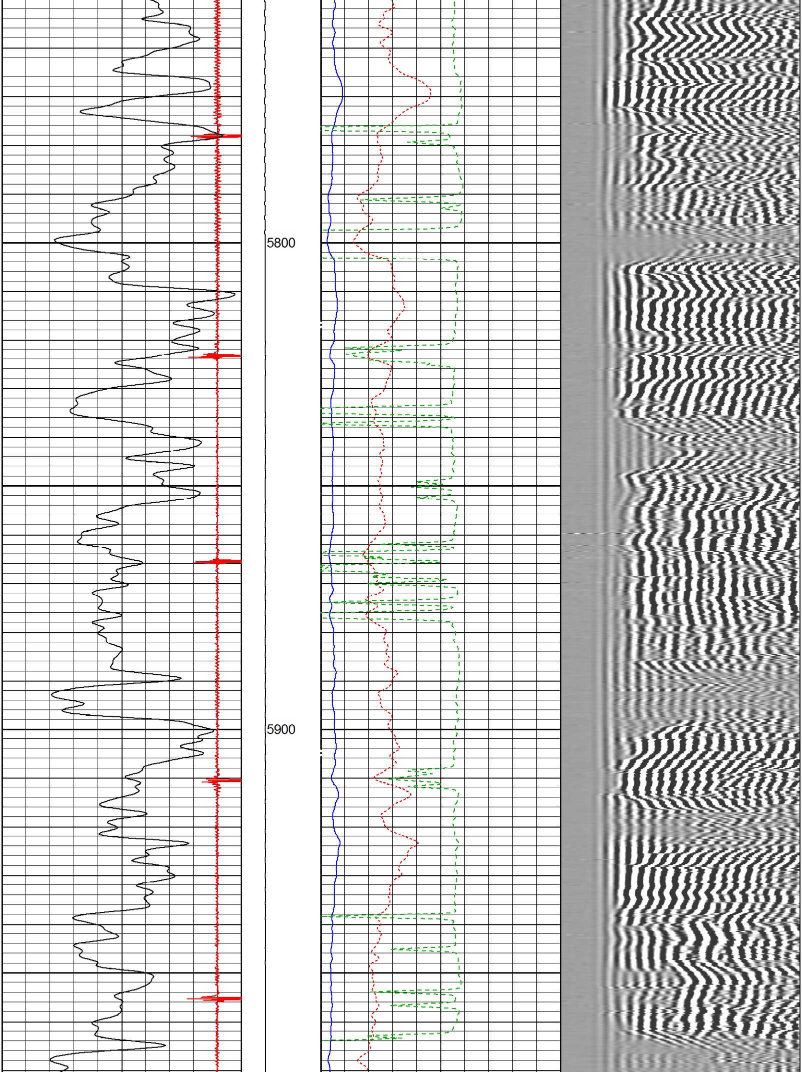


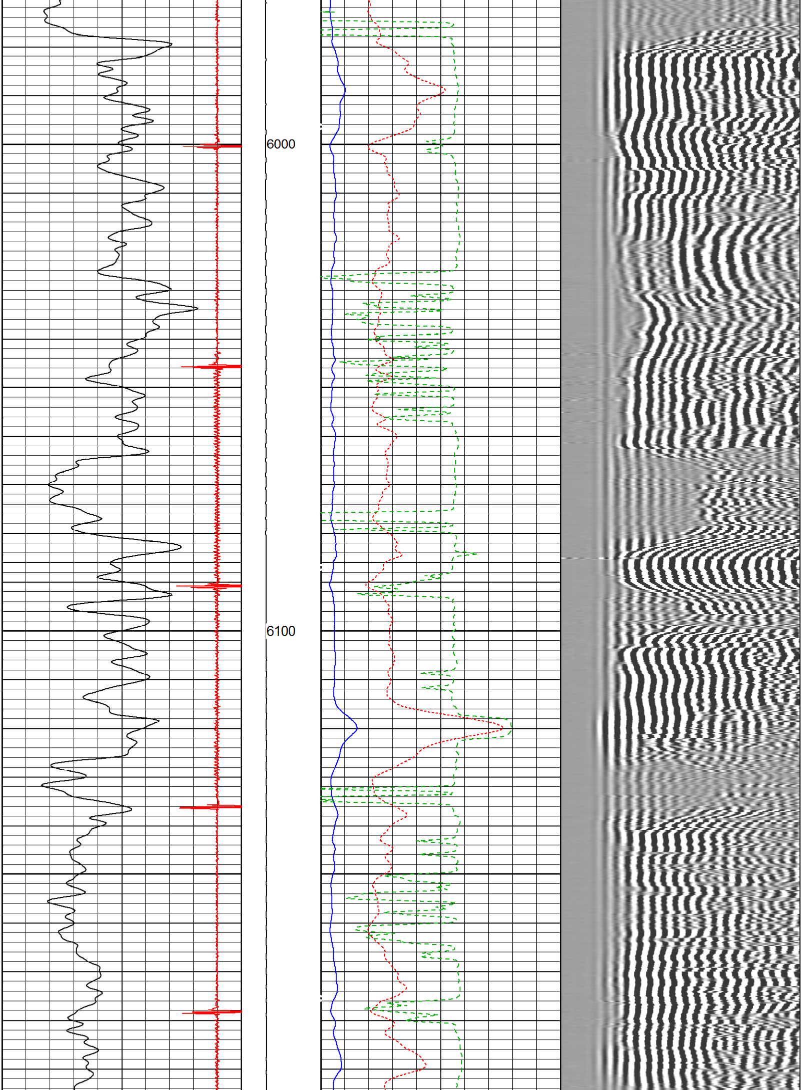


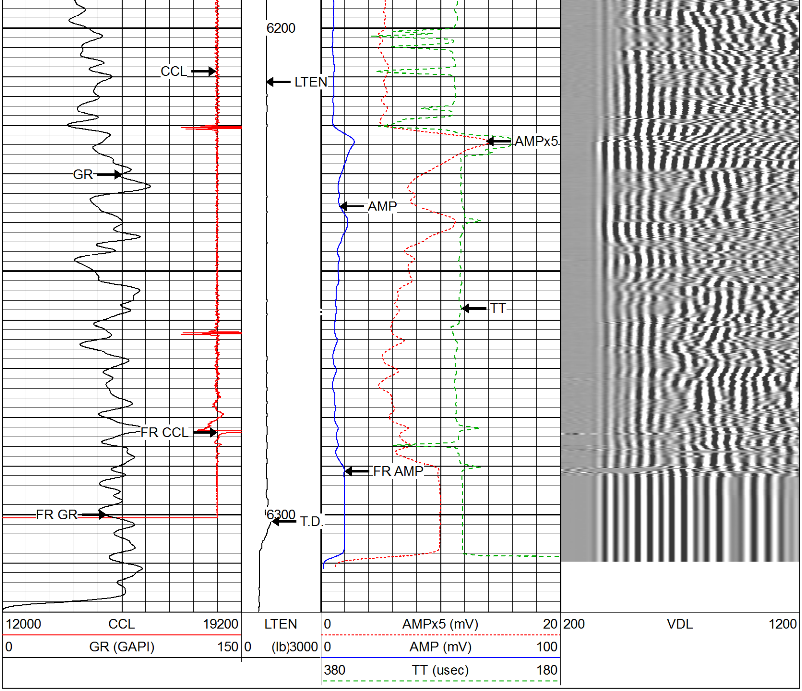










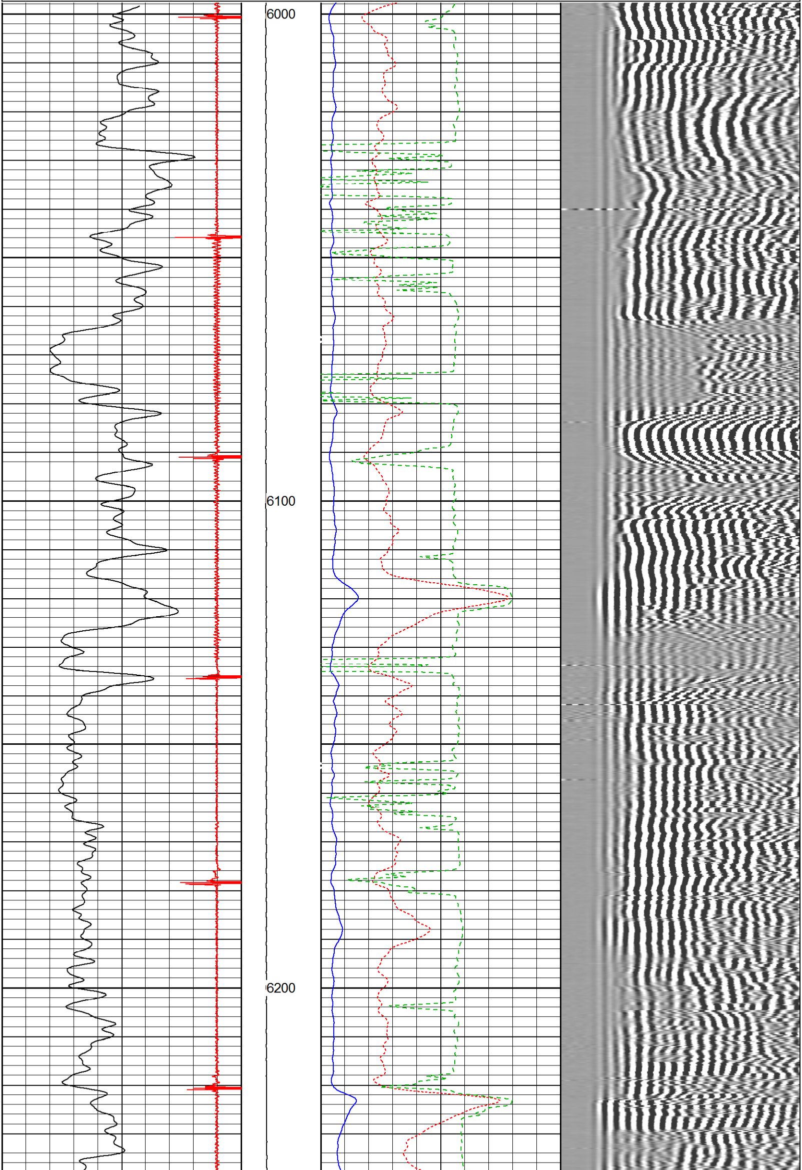


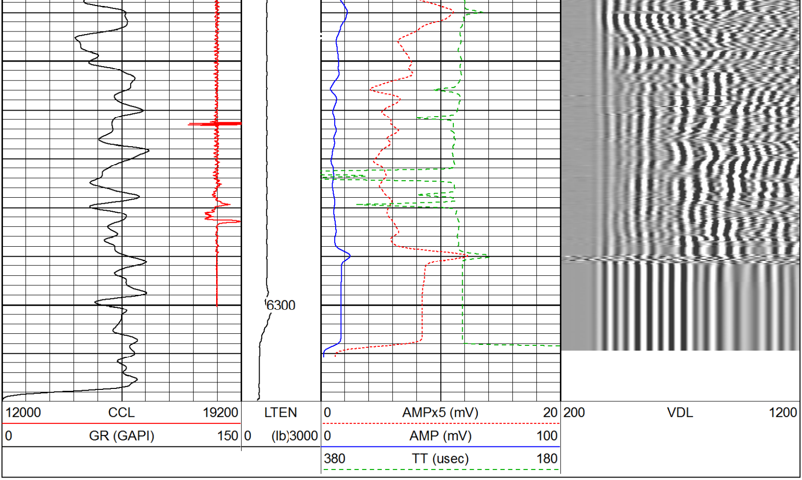
RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

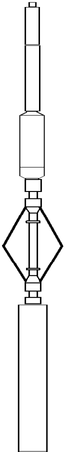
REPEAT PASS

Database File:	06152015_oxy_stites_20-07b.db
Dataset Pathname:	repeat/pass2
Presentation Format:	rmws_dsc
Dataset Creation:	Mon Jun 15 18:31:15 2015 by Calc SCH 120430
Charted by:	Depth in Feet scaled 1:240

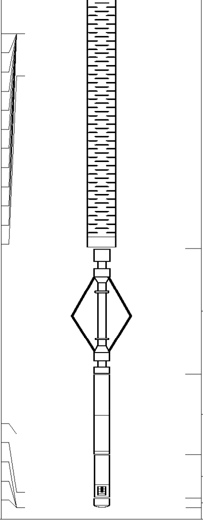
12000 CCL 19200	LTEN	0 AMPx5 (mV) 20	200 VDL 1200
0 GR (GAPI) 150	0 (lb)3000	0 AMP (mV) 100	
		380 TT (usec) 180	





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	11.32
WVFS1	11.32
WVFS2	11.32
WVFS3	11.32
WVFS4	11.32
WVFS5	11.32
WVFS6	11.32
WVFS7	11.32
WVFS8	11.32
CBLTEMP	11.32
CBLROT	11.32
WVF5FT	10.32
GR	1.76
TEMP	0.37
TSTAMP	0.00
ITEMPX	0.00
HVOLTX	0.00



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
PGR-020 (10007620) Production Gamma Ray	1.93	1.69	9.50
PRT-016 (10008207) Platinum Resistance Thermometer	1.04	1.69	6.00
BUL-006 (212965) Bullnose Terminator	0.22	1.69	1.20

Dataset:	06152015_oxy_stites_20-07b.db: field/well/main/pass2
Total Length:	22.90 ft
Total Weight:	244.00 lb
O.D.	3.13 in

RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

Company	OXY USA, WTP, LP
Well	STITES 20 - 7B
Field	BUZZARD
County	MESA
State	COLORADO