PIONEER

Pioneer Energy Services

MULTI-ARM CALIPER LOG

CompanyRENEGADE OIL & GAS CO LLC
Well UPRR MARRS #1-3
Field KITTY
County ADAMS State CO

Company	**RENEGADE OIL & GAS CO LLC**
Well	**UPRR MARRS #1-3**
Field	**KITTY**
County	**ADAMS** State **CO**

Location: API # : 0500106566

SHL: 660 N 660 W

SEC 3 TWP 2S RGE 62W

Other Services
None

Permanent Datum Elevation 5214'
Log Measured From
Drilling Measured From

Elevation
K.B. 5223'
D.F. 5222'
G.L. 5214'

Date of Service	5/29/2014		
Run Number	1		
Depth Driller or PBTD	7343'		
Depth Logger	7303'		
Bottom Log Interval	7303'		
Top Log Interval	6800'		
Open Hole Size	7.875		
Type Fluid	WATER		
Fluid Level	NA		
Fluid Density	8.33		
Max. Recorded Temperature	218.2		
Max. Wellhead Pressure	NA		
Wellhead Connection	NA		
Estimated Cement Top	NA		
Unit Number	59		
Wireline Size	9/32		
Location	FT. MORGAN		
Recorded By	TIM REESE		
Witnessed By	ED INGVE		

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	8-5/8"	24	Surf	NA
Production Casing	4.5"	11.6/10.5	Surf	NA
Liner Record				

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

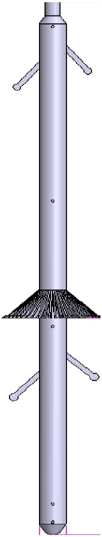
Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
Long-string casing ID measures closer to 10.5# than 11.6#

THANK YOU FOR USING PIONEER Energy SERVICES

Your Pioneer Energy Services Crew
Engineer: REESE, SCHUMAN
Operator: HANSEN
Operator: TOREZ
Operator:

Tool Data - Services	Serial Number
40 ARM CALIPER	9007

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			XIPEMAC-40 (09007) XIPE 40 Arm caliper	5.00	3.00	
Meas	2.17					
Aux1	0.00					

Dataset:	uprr marrs #1-3.db: field/well/run1/pass4
Total Length:	5.00 ft
Total Weight:	lb
O.D.	3.00 in

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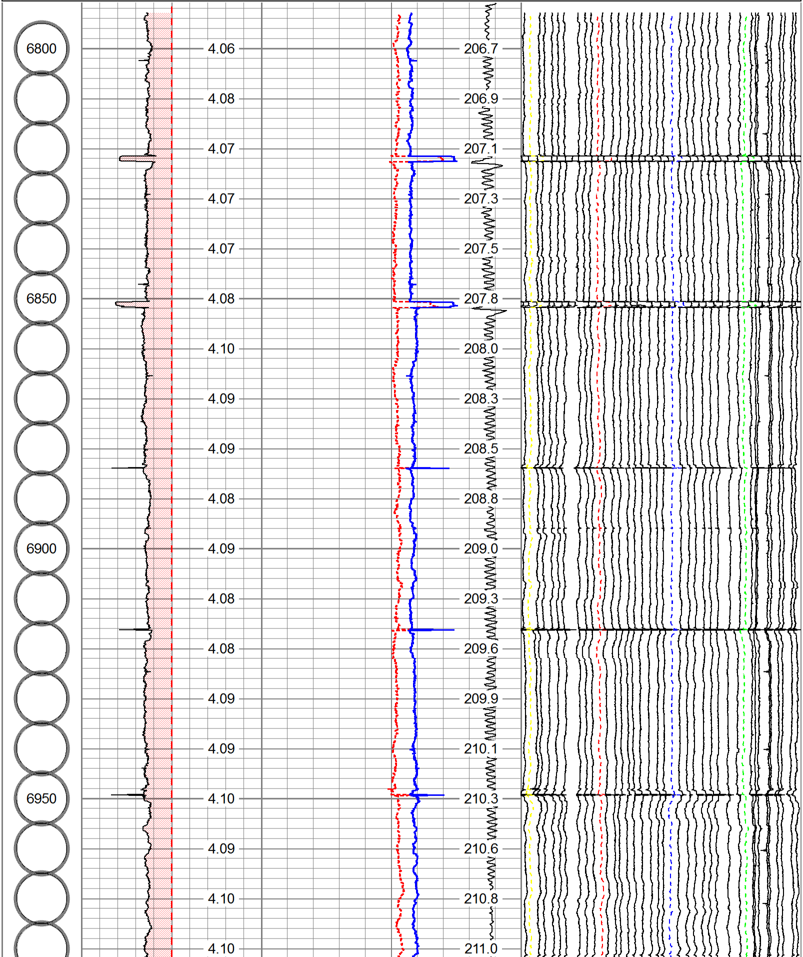
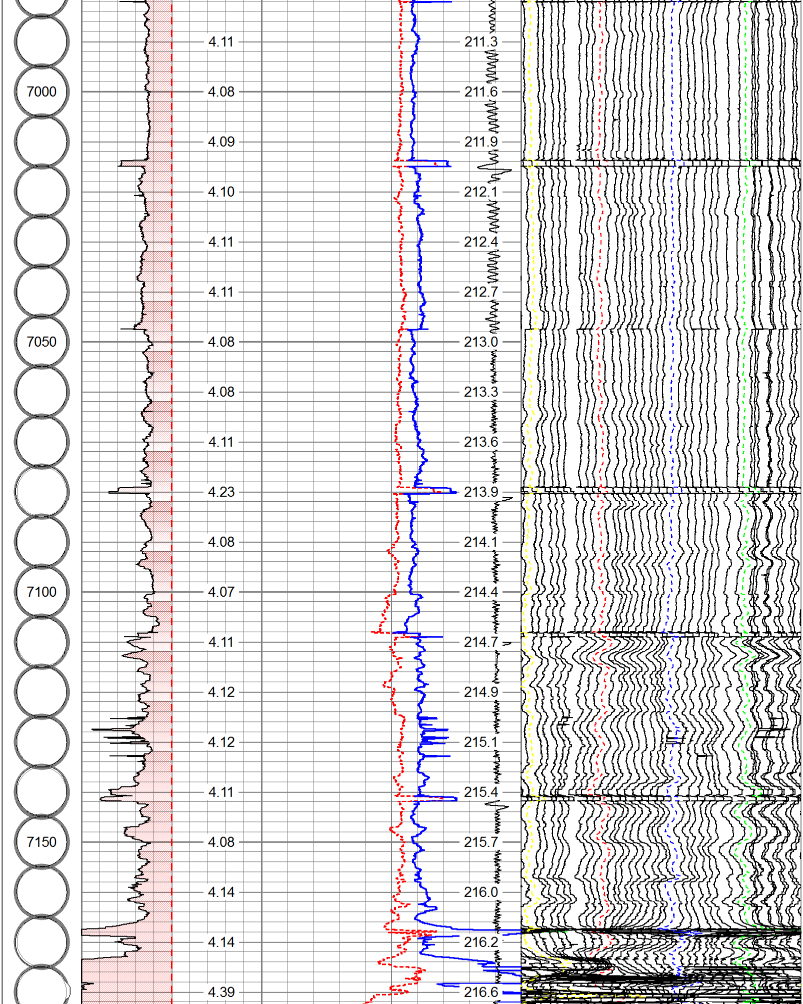
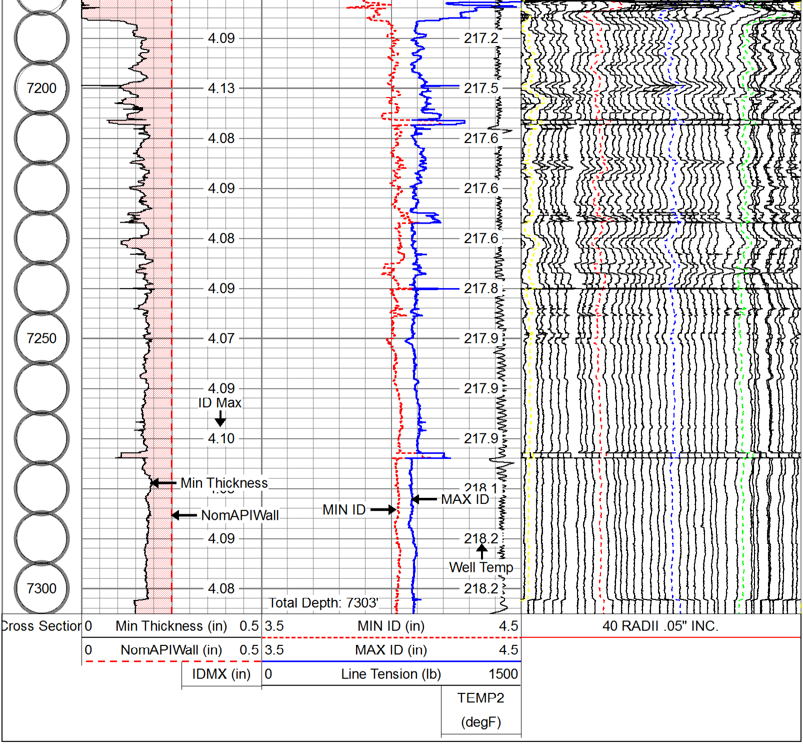
MAIN PASS

Database File:	uprr marrs #1-3.db
Dataset Pathname:	pass5
Presentation Format:	hwradii
Dataset Creation:	Thu May 29 09:12:29 2014 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

Cross Sectio	0 Min Thickness (in) 0.5	3.5 MIN ID (in) 4.5	40 RADII .05" INC.
	0 NomAPIWall (in) 0.5	3.5 MAX ID (in) 4.5	
	IDMX (in)	0 Line Tension (lb) 1500	
		TEMP2 (degF)	







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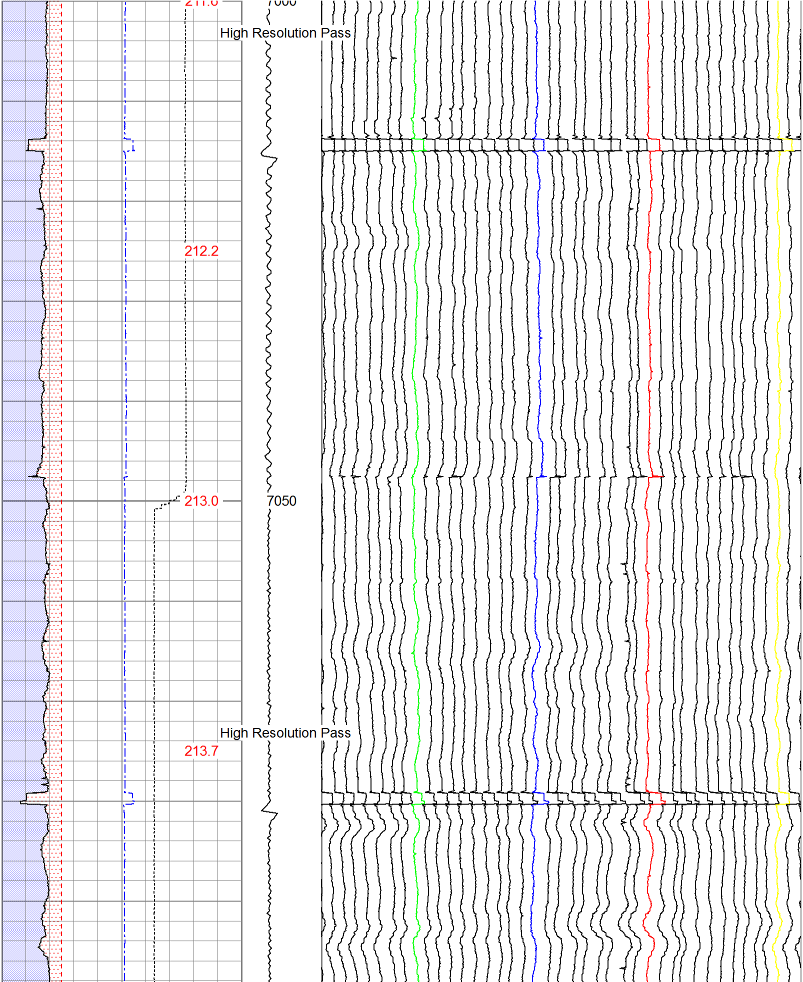
MAIN PASS

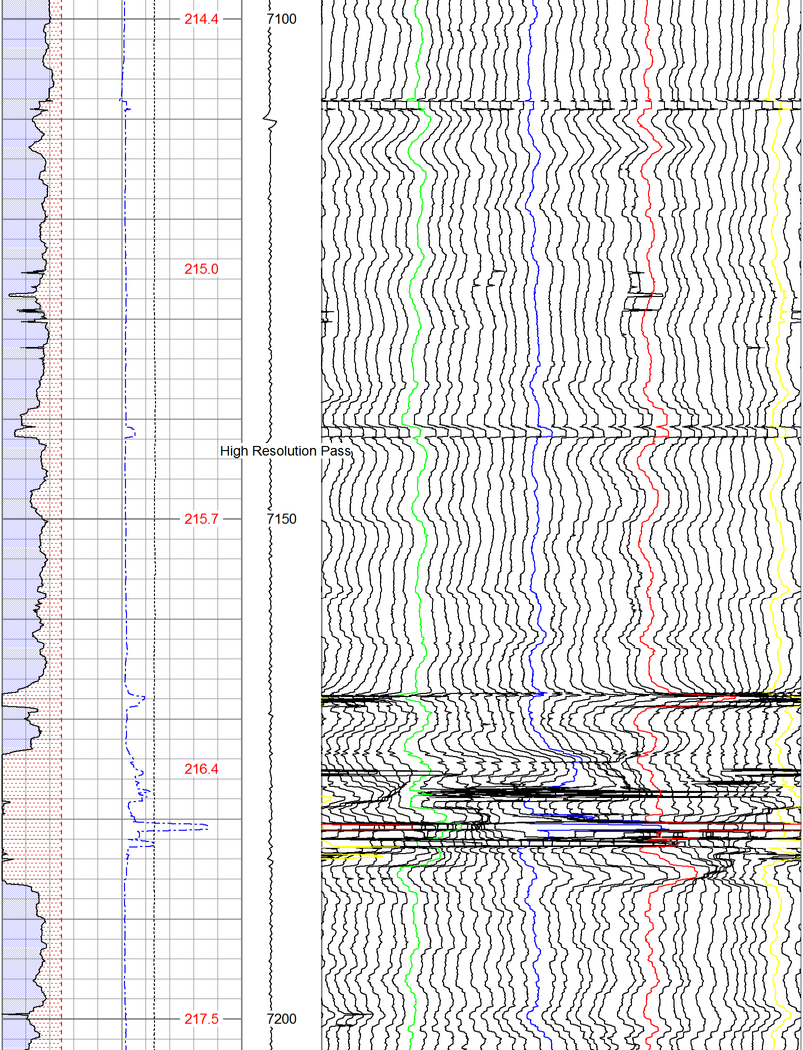
Database File:	uprr marrs #1-3.db
Dataset Pathname:	pass5
Presentation Format:	pwscal
Dataset Creation:	Thu May 29 09:12:29 2014 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:120

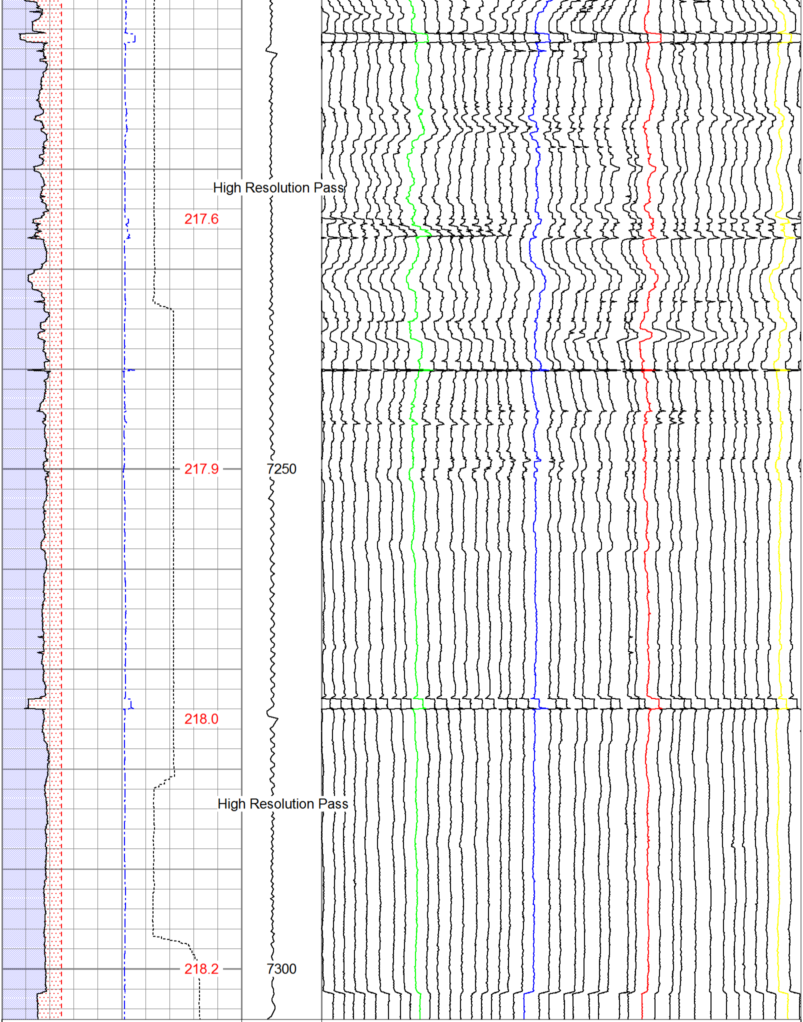
2 AVG DIAMETER (in) 6
-50 Line Speed (ft/min) 50
0 MIN Remaing Wall (in) 1
0 NOMAPIWALL (in) 1
WTEMP
(degF)

LTEN
0 (lb 1000

0.075 FING02 (in) 3.075
2.85 FING39 (in) 5.85
2.925 FING40 (in) 5.925
0 40 Radii .075 Inc. (in) 3







2	AVG DIAMETER (in)	6
-50	Line Speed (ft/min)	50
0	MIN Remaing Wall (in)	1
0	NOMAPIWALL (in)	1
	WTEMP (degF)	
	LTEN	
0	(lb	1000
0.075	FING02 (in)	3.075
2.85	FING39 (in)	5.85
2.925	FING40 (in)	5.925
0	40 Radii .075 Inc. (in)	3

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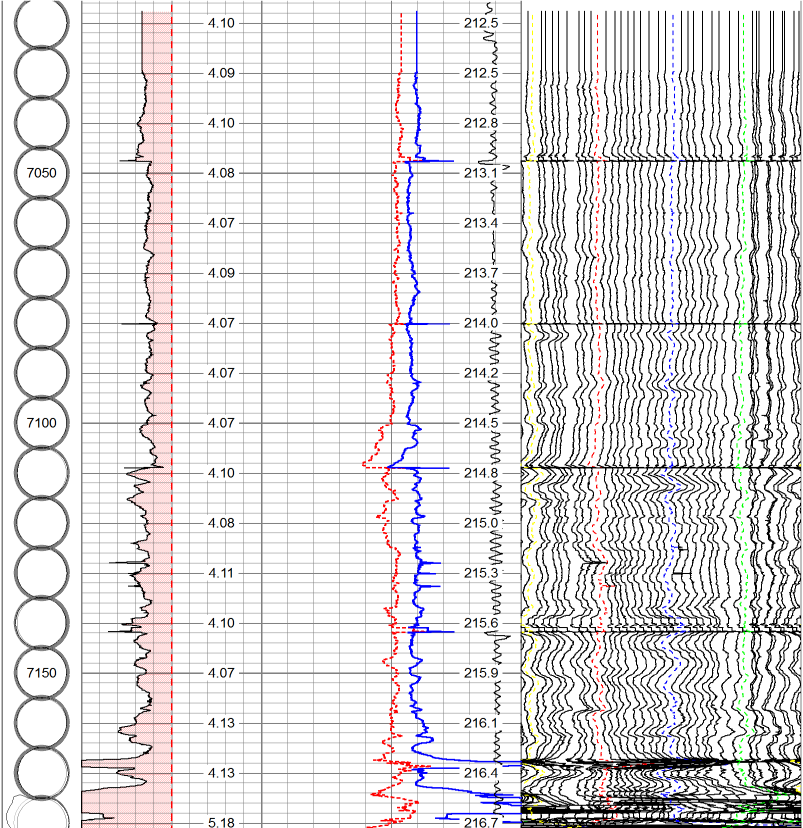
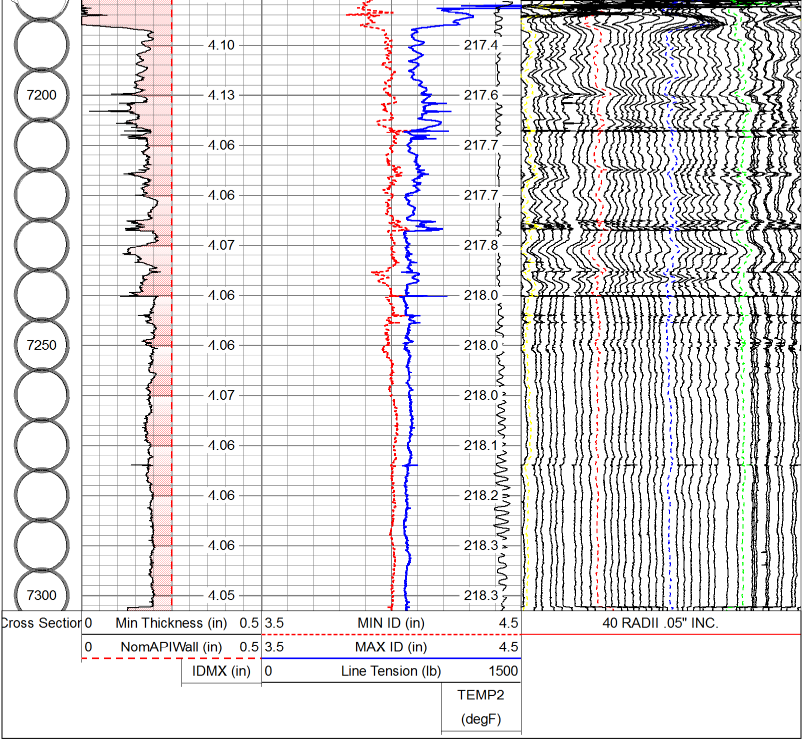
REPEAT PASS

Database File: uprr marrs #1-3.db
Dataset Pathname: pass4.1
Presentation Format: hwradii
Dataset Creation: Thu May 29 09:11:10 2014 by Calc 7.0 B1
Charted by: Depth in Feet scaled 1:240

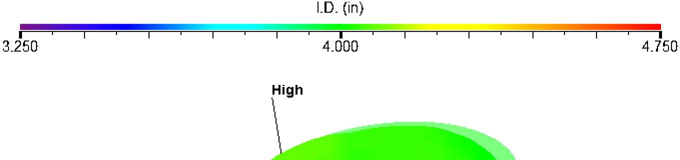
ross Sectior	0 Min Thickness (in) 0.5	3.5 MIN ID (in) 4.5	40 RADII .05" INC.
	0 NomAPIWall (in) 0.5	3.5 MAX ID (in) 4.5	
	IDMX (in)	0 Line Tension (lb) 1500	
		TEMP2 (degF)	

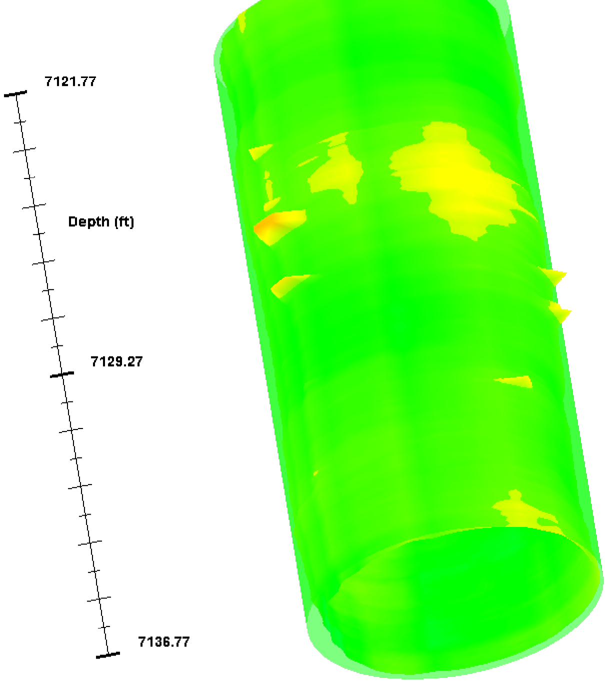




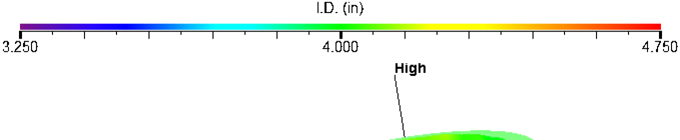
Borehole Image 3D MODEL

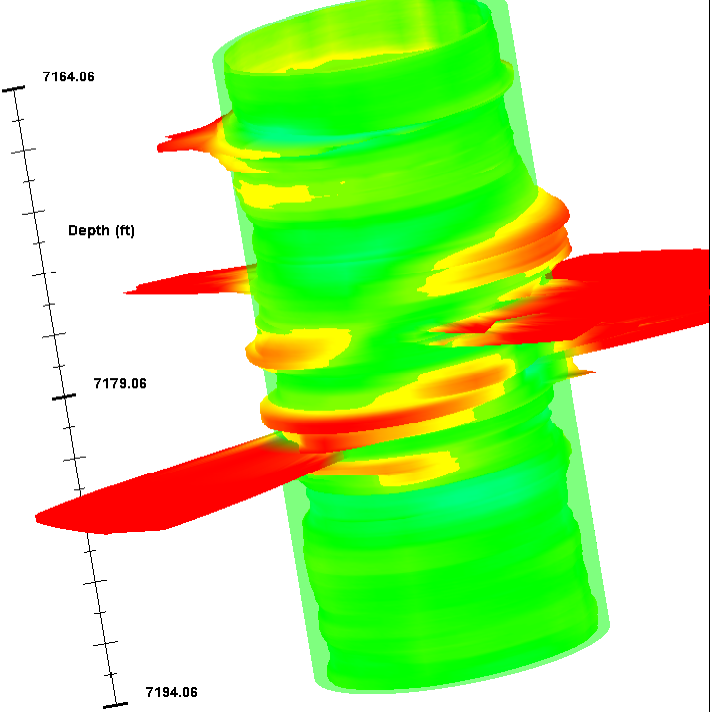
Borehole Image Display





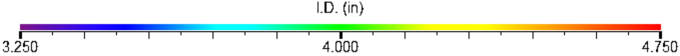
Borehole Image 3D MODEL
Borehole Image Display

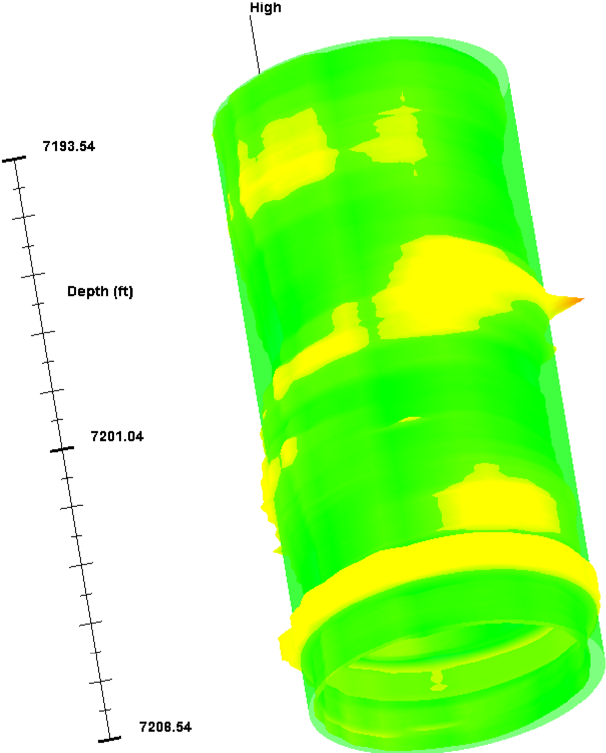




Borehole Image 3D MODEL

Borehole Image Display





Calibration Report

Database File:	uprr marrs #1-3.db
Dataset Pathname:	pass6
Dataset Creation:	Thu May 29 10:14:38 2014 by Log 7.0 B1

40 Arm Multi Sensor Caliper Calibration Report

Serial Number: 09007
Tool Model: 40
Performed: Thu May 29 07:57:48 2014

Ref ID:	3.13	4.00	5.00	6.00	7.00	in
Arm1	1.62	2.04	2.54	3.05	3.55	
Arm2	1.56	1.98	2.47	2.97	3.47	
Arm3	1.62	2.03	2.53	3.04	3.55	
Arm4	1.52	1.95	2.46	2.98	3.50	
Arm5	1.62	2.04	2.54	3.05	3.54	
Arm6	1.65	2.07	2.54	3.03	3.53	
Arm7	1.55	1.97	2.45	2.94	3.43	
Arm8	1.65	2.05	2.49	2.95	3.42	
Arm9	1.49	1.92	2.41	2.91	3.42	
Arm10	1.64	2.09	2.59	3.11	3.61	
Arm11	1.48	1.92	2.40	2.91	3.41	
Arm12	1.50	1.94	2.43	2.82	3.45	
Arm13	1.34	1.80	2.31	2.84	3.38	
Arm14	1.53	1.96	2.44	2.93	3.42	
Arm15	1.50	1.95	2.45	2.95	3.45	
Arm16	1.56	1.99	2.47	2.96	3.45	
Arm17	1.65	2.09	2.58	3.08	3.57	
Arm18	1.54	2.00	2.49	2.99	3.48	
Arm19	1.62	2.04	2.52	3.00	3.48	
Arm20	1.53	1.98	2.48	2.98	3.48	
Arm21	1.62	2.06	2.55	3.04	3.53	
Arm22	1.48	1.92	2.42	2.90	3.40	
Arm23	1.65	2.08	2.58	3.07	3.56	
Arm24	1.57	2.01	2.53	3.03	3.54	
Arm25	1.65	2.08	2.57	3.05	3.53	
Arm26	1.55	1.97	2.46	2.95	3.43	
Arm27	1.61	2.06	2.57	3.05	3.56	
Arm28	1.50	1.94	2.46	2.97	3.46	
Arm29	1.63	2.07	2.58	3.07	3.58	
Arm30	1.65	2.08	2.60	3.10	3.60	
Arm31	1.61	2.04	2.55	3.04	3.54	
Arm32	1.40	1.83	2.34	2.85	3.35	
Arm33	1.52	1.93	2.43	2.91	3.38	
Arm34	1.50	1.91	2.42	2.92	3.42	
Arm35	1.64	2.04	2.54	3.01	3.49	
Arm36	1.51	1.93	2.44	2.94	3.45	
Arm37	1.65	2.06	2.55	3.04	3.54	
Arm38	1.48	1.88	2.38	2.88	3.38	
Arm39	1.60	2.01	2.52	3.01	3.50	
Arm40	1.50	1.92	2.44	2.95	3.46	

* Bad

XIPE verifications Calibration Report

	Pre Verification	Post Verification	Casing Check	
Performed:	Thu May 29 08:01:34 2014	Thu May 29 10:14:24 2014		
Ref ID:	4.00	4.00	0.00	in
Min.	4.00	4.06	0.00	in
Max.	4.01	4.10	0.00	in
Avg.	4.00	4.07	0.00	in
Dia1	4.00	4.06	0.00	in
Dia2	4.00	4.09	0.00	in
Dia3	4.00	4.09	0.00	in
Dia4	4.00	4.07	0.00	in
Dia5	4.00	4.06	0.00	in
Dia6	4.00	4.06	0.00	in
Dia7	4.00	4.07	0.00	in
Dia8	4.00	4.07	0.00	in
Dia9	4.00	4.06	0.00	in
Dia10	4.00	4.06	0.00	in
Dia11	4.00	4.07	0.00	in
Dia12	4.00	4.08	0.00	in
Dia13	4.00	4.07	0.00	in
Dia14	4.00	4.10	0.00	in
Dia15	4.00	4.08	0.00	in
Dia16	4.00	4.08	0.00	in
Dia17	4.00	4.07	0.00	in
Dia18	4.00	4.07	0.00	in
Dia19	4.00	4.07	0.00	in
Dia20	4.00	4.09	0.00	in

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