

RMWS

ROCKY MOUNTAIN WIRELINE SERVICE

CEMENT BOND LOG

GAMMA RAY / CCL

Company

WILLIAMS PRODUCTION

Well

GM 259-2

Field

GRAND VALLEY

County

GARFIELD

State

COLORADO

Location:

APL #:

SHL 1627 FSL 3 06277 FEL

Client Services

Payment Chain

SEC 2

TWP 7S

R3E 96W

Section

5229.5

Log Measured From

G.B

K.B

Fluorite PD

19.5

D.G. 6229.5

G.L. 6229.5

Drilling Measured From

07-12-2011

Date

07-12-2011

Rup Number

0317

QIE

33007

Present Depth Chiller

16007

Depth Logger

16007

Bottom Logged Interval

16007

Top Log Interval

57

Fluid Level

SURFACE

Type Fluid

WATER

Max. Recorded Temp.

N/A

Estimated Cement Top

SEE LOG

Equipment Number

208

Location

GRAND CT

Recorded By

HARRIS

Run Number

Boreside Record

T1

SS2

Depth

303

QIE

17057

303

6317

4.57

11#

SURFACE

6317

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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: THIS LOG WAS DEPTH CORRELATED TO THE RMWS DATED 12-07-99
MAIN PASS 5" = 100'
CSG PSI = 1000

Database File: 071211_williams_g_259-2.db
Dataset Pathname: main/pass1
Dataset Creation: Tue Jul 12 08:04:36 2011 by Log Std Casedhole 10121

Calibration Report

Temperature Calibration Report

Serial Number: 217894
Tool Model: 016
Performed: Fri Oct 24 13:23:59 2008

Point #	Reading	Reference	
1	13298.00	cps	75.97 degF
2	17844.00	cps	104.32 degF
3	29434.00	cps	175.71 degF
4	41028.00	cps	246.70 degF
5	52674.00	cps	317.75 degF
6	58555.00	cps	353.61 degF
7		cps	
8		cps	
9		cps	
10		cps	

Gamma Ray Calibration Report

Type / Serial: 020 / 217692

SHOP CALIBRATION

Wed Apr 06 13:50:00 2011

	Counts/Sec.	Gain	Offset	Jlg	Units
Background	0.0				cps
Calibrator	1.0	1.1000			cps GAPI/cps

PRIMARY VERIFICATION

Background	0.0				cps
Calibrator	0.0			0.0	cps GAPI
Difference	0.0				

BEFORE SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0			0.0	cps GAPI
Difference	0.0				

AFTER SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0			0.0	cps GAPI
Difference	0.0				

Segmented Cement Bond Log Calibration Report

Serial Number: 1123
Tool Model: 004

Calibration Casing Diameter: 4.500 in
Calibration Depth: 196.046 ft

Master Calibration, performed Sat Jul 09 13:40:12 2011:

Raw (v)		Calibrated (mv)		Results	
		Zero	Cal	Gain	Offset
3FT	0.004	1.171	1.000	81.196	0.748
4FT	-0.001	0.993	1.000	81.196	1.060
S1	0.004	1.219	0.000	100.000	-0.349
S2	0.004	1.189	0.000	100.000	-0.304
S3	0.007	1.119	0.000	100.000	-0.649
S4	0.005	1.126	0.000	100.000	-0.436
S5	0.006	1.149	0.000	100.000	-0.562
S6	0.006	1.178	0.000	100.000	-0.519
S7	0.007	1.180	0.000	100.000	-0.623
S8	0.007	1.199	0.000	100.000	-0.609

Calibration Report

Serial Number: 1123
Tool Model: 004

Low: 0.000
High: 1.000
Gain = 1.000

Reference (degF): 0.000
Reading (v): 0.000
Offset = 0.000

RMWS

ROCKY MOUNTAIN WIRELINE SERVICE

MAIN PASS 1000PSI

Database File: 071211_williams_g_259-2.db
Dataset Pathname: main/pass1
Presentation Format: rmws_dsc
Dataset Creation: Tue Jul 12 08:04:36 2011 by Log Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240'

12500 CCL 19700 LTEN 0 AMPx5 (mV) 20 200 VDL 1200

0 GR (GAPI) 150 0 (lb/3000) 0 AMP (mV) 100

380 TT (usec) 180

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

CCL

GR

TT

AMP

AMPx5

12500 CCL 19700 LTEN 0 AMPx5 (mV) 20 200 VDL 1200

0 GR (GAPI) 150 0 (lb/3000) 0 AMP (mV) 100

380 TT (usec) 180

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

CCL

GR

TT

AMP

AMPx5

Sensor

Offset (ft)

Schematic

Description

Len (ft)

OD (in)

Wt (lb)

CCL

20.01

CHD-AES (000001)
Cable Head

1.04

1.69

2.00

WVFS3FT

11.74

XTU-002 (216415)
Crossover Ultravibe Toolbus To Ultralink

1.58

1.69

6.50

WVFS1

11.74

CCL-028 (1037)
CCL UW 3 1/8" SONDEX

1.61

3.13

36.00

WVFS3

11.74

SNDX
6 Am PRC 622 W/GO ADAPTORS

3.42

2.38

22.00

WVFS4

11.74

REB-004 (1123)
Radial Bond Tool (W 3 1/8)

9.47

3.13

140.00

WVFS5

11.74

SNDX
6 Am PRC 622 W/GO ADAPTORS

3.42

2.38

22.00

WVFS6

11.74

PGR-020 (217692)
Production Gamma Ray

1.93

1.69

9.50

WVFS7

11.74

PRT-516 (217894)
Platinum Resistance Thermometer

1.04

1.69

6.00

WVFS8

11.74

BUIL-006 (212965)
Bulose Terminator

0.22

1.69

1.20

CBLETEMP

11.74

CBLEROT

11.74

WVFSFT

10.74

GR

1.76

TEMP

0.37

TSTAMP

0.00

ITEMPLX

0.00

Dataset: 071211_williams_g_259-2.db: field/well/main/pass1
Total Length: 23.73 ft
Total Weight: 245.20 lb
O.D. 3.13 in

RMWS

ROCKY MOUNTAIN WIRELINE SERVICE

Company: WILLIAMS PRODUCTION
Well: GM 259-2
Field: GRAND VALLEY
County: GARFIELD
State: COLORADO