

[illegible]

The
Perforators
LLC

Main Pass

Database File:
Dataset Pathname:
Presentation Format:
Dataset Creation:
Charted by:

apoapo#2oh.db
pass2
kcdnl
Sun Dec 02 14:54:36 2012 by Log Open-Cased 100827
Depth in Feet scaled 1:240

0GR (GAPI)150
6DCAL (in)16
6BOREID (in)16
TBHV (ft3)

30NPOR (pu)-10
30DPOR (pu)-10
70DPOR (pu)30
-0.25RHOC (g/cc)0.25
8000LTEN (lb)0
ABHV (ft3)

2003200
2423250
2233300
2063350
1893400
1713450
1543500
1373550
1203600
1033650
863700
693750
523800
363850
193900
23950
Limestone Matrix 2.71

30NPOR (pu)-10
30DPOR (pu)-10
70DPOR (pu)30
-0.25RHOC (g/cc)0.25
8000LTEN (lb)0
ABHV (ft3)

The
Perforators
LLC

Repeat Pass

Database File:
Dataset Pathname:
Presentation Format:
Dataset Creation:
Charted by:

apoapo#2oh.db
pass1
kcdnl
Sun Dec 02 14:38:28 2012 by Log Open-Cased 100827
Depth in Feet scaled 1:240

0GR (GAPI)150
6DCAL (in)16
6BOREID (in)16
TBHV (ft3)

30NPOR (pu)-10
30DPOR (pu)-10
70DPOR (pu)30
-0.25RHOC (g/cc)0.25
8000LTEN (lb)0
ABHV (ft3)

503800
343850
173900
23950

30NPOR (pu)-10
30DPOR (pu)-10
70DPOR (pu)30
-0.25RHOC (g/cc)0.25
8000LTEN (lb)0
ABHV (ft3)

Database File:
Dataset Pathname:
Dataset Creation:

apoapo#2oh.db
pass1
Sun Dec 02 14:38:28 2012 by Log Open-Cased 100827

Dual Induction Calibration Report

Serial-Model:
Surface Cal Performed:
Downhole Cal Performed:
After Survey Verification Performed:

080522-Probe
Sun Dec 02 13:33:30 2012
Sun Dec 02 13:35:39 2012
Sun Dec 02 13:35:39 2012

Surface Calibration

Loop:

Air

Readings

References

Results

Deep

Medium

Internal:

Deep

Medium

Zero

Cal

V

V

Zero

Cal

mmho/m

mmho/m

m

b

0.001

0.003

0.638

0.735

0.000

0.000

400.000

464.000

628.149

634.133

-0.909

-1.885

Zero

Cal

V

V

Zero

Cal

mmho/m

mmho/m

m

b

0.001

0.003

0.639

0.735

0.000

0.000

400.000

464.000

627.770

634.038

-0.927

-1.896

Downhole Calibration

Zero

Cal

Readings

References

Results

Deep

Medium

LL3

Zero

Cal

mmho/m

mmho/m

V

V

Zero

Cal

mmho/m

mmho/m

Ohm-m

Ohm-m

m'

b'

-0.587

-0.685

400.153

463.926

7.259

-0.000

-7.420

0.019

0.012

400.261

464.081

750.000

12.000

3745.000

0.999

0.999

0.605

0.696

Compensated Density Calibration Report

Serial-Model:
Source / Verifier:
Master Calibration Performed:

2501DHT-DHT
Tue Nov 06 10:51:50 2012

Master Calibration

Density

Far Detector

Near Detector

Magnesium

Aluminum

Spine Angle = 76.61

Small Ring

Large Ring

Size

in

in

g/cc

g/cc

706.18

133.68

260.37

175.21

cps

cps

Density/Spine Ratio = 0.544

Reading

6273.19

10676.90

Gamma Ray Calibration Report

Serial Number:
Tool Model:
Performed:

2000
P2000
Sun Dec 02 13:08:27 2012

Calibrator Value:

Background Reading:

Calibrator Reading:

Sensitivity:

1.0

0.0

1.0

0.2400

GAPI

cps

cps

GAPI/cps

Neutron Calibration Report

Serial Number:
Tool Model:
Performed:

5108
PROBE
Sun Dec 02 14:05:16 2012

Calibrator Value:

Calibrator Reading:

Sensitivity:

1

1

1

NAPI

cps

NAPI/cps

Sensor

Offset (ft)

Schematic

Description

Len (ft)

OD (in)

Wt (lb)

NEU

37.96

None

0.75

1.50

5.00

GR

32.57

NEU-PROBE (5108)
Probe

4.92

3.63

85.00

LSD

23.78

GR-P2000 (2000)

3.67

3.25

40.00

DCAL

23.49

CDL-DHT (2501DHT)
Digital High Temp CDL Tool

9.69

4.00

201.00

SSD

23.24

HEADVOLT

21.47

CILD

10.60

DIL-Probe (080522)
Probe Dual Induction

21.47

4.00

345.00

SP

10.60

CILM

6.89

RLL3

1.70

Dataset:
Total Length:
Total Weight:
O.D.

apoapo#2oh.db; field/well/run1/pass1
40.49 ft
676.00 lb
4.00 in

The Perforators LLC

Repeat Pass

Database File: apoapo#2oh.db
 Dataset Pathname: pass1
 Presentation Format: kcdnl
 Dataset Creation: Sun Dec 02 14:38:28 2012 by Log Open-Cased 100827
 Charted by: Depth in Feet scaled 1:240

Depth (ft3)	GR (GAPI)	DCAL (in)	BOREID (in)	NPOR (pu)	DPOR (pu)	RHOC (g/cc)	LTEN (lb)	ABHV (ft3)
0	242	6	6	30	30	-0.25	8000	0
6	223	16	16	30	30	0.25	0	10
6	206	16	16	70	70	0.25	0	10
189	189	16	16	30	30	0.25	0	10
171	171	16	16	30	30	0.25	0	10
154	154	16	16	30	30	0.25	0	10
137	137	16	16	30	30	0.25	0	10
120	120	16	16	30	30	0.25	0	10
103	103	16	16	30	30	0.25	0	10
86	86	16	16	30	30	0.25	0	10
69	69	16	16	30	30	0.25	0	10
52	52	16	16	30	30	0.25	0	10
36	36	16	16	30	30	0.25	0	10
19	19	16	16	30	30	0.25	0	10
2	2	16	16	30	30	0.25	0	10

Limestone Matrix 2.71

Calibration Report									
Database File:		apoapo#2oh.db							
Dataset Pathname:		pass1							
Dataset Creation:		Sun Dec 02 14:38:28 2012 by Log Open-Cased 100827							
Dual Induction Calibration Report									
Serial-Model:		080522-Probe							
Surface Cal Performed:		Sun Dec 02 13:33:30 2012							
Downhole Cal Performed:		Sun Dec 02 13:35:39 2012							
After Survey Verification Performed:		Sun Dec 02 13:35:39 2012							
Surface Calibration									
		Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.001	0.638	V	0.000	400.000	mmho/m	628.149	-0.909	
Medium	0.003	0.735	V	0.000	464.000	mmho/m	634.133	-1.885	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.001	0.639	V	0.000	400.000	mmho/m	627.770	-0.927	
Medium	0.003	0.735	V	0.000	464.000	mmho/m	634.038	-1.896	
Downhole Calibration									
		Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'	
Deep	-0.587	400.153	mmho/m	0.019	400.261	mmho/m	0.999	0.605	
Medium	-0.685	463.926	mmho/m	0.012	464.081	mmho/m	0.999	0.696	
LL3		7.259	V		750.000	Ohm-m			
		-0.000	V		12.000	Ohm-m			
		-7.420	V		3745.000	mmho-m			
Compensated Density Calibration Report									
Serial-Model:		2501DHT-DHT							
Source / Verifier:		/							
Master Calibration Performed:		Tue Nov 06 10:51:50 2012							
Master Calibration									
		Density			Far Detector		Near Detector		
Magnesium		1.750	g/cc		706.18		260.37	cps	
Aluminum		2.680	g/cc		133.68		175.21	cps	
		Spine Angle = 76.61			Density/Spine Ratio = 0.544				
		Size			Reading				
Small Ring		8.50	in		6273.19				
Large Ring		14.00	in		10676.90				
Gamma Ray Calibration Report									
Serial Number:		2000							
Tool Model:		P2000							
Performed:		Sun Dec 02 13:08:27 2012							
Calibrator Value:		1.0		GAPI					
Background Reading:		0.0		cps					
Calibrator Reading:		1.0		cps					
Sensitivity:		0.2400		GAPI/cps					
Neutron Calibration Report									
Serial Number:		5108							
Tool Model:		PROBE							
Performed:		Sun Dec 02 14:05:16 2012							
Calibrator Value:		1		NAPI					
Calibrator Reading:		1		cps					
Sensitivity:		1		NAPI/cps					

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
NEU	37.96		None	0.75	1.50	5.00
			NEU-PROBE (5108) Probe	4.92	3.63	85.00
GR	32.57		GR-P2000 (2000)	3.67	3.25	40.00
LSD	23.78		CDL-DHT (2501DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
DCAL	23.49					
SSD	23.24					

HEADVOLT	21.47				
CILD SP CILM	10.60 10.60 6.89		DIL-Probe (080522) Probe Dual Induction	21.47	4.00
RLL3	1.70				
			Dataset: Total Length: Total Weight: O.D.	apcapo#2oh.db; field/well/run1/pass1 40.49 ft 676.00 lb 4.00 in	