Company	Petroleum Development Oman LLC		
Well	Nimr-1		
Field	Nimr		
Location	Block 6		
County	Sultanate of Oman		
State			
Country			
API Number			
Other Services			
Permanent Datum	Ground Level	Elevation	0 m
Log Measured From	Kelly Bushing	Above Permanent Datum	0 m
Drilling Measured From	Kelly Bushing		
Date	15-Jan-2010		
Run Number	ONE		
Depth Driller	3000 m		
Depth Logger	3000 m		
Bottom Logged Interval	3000 m		
Top Logged Interval	2900 m		
Casing Driller	9 5/8 in @ 2900 m		
Casing Logger	9 5/8 in @ 2900 m		
Bit Size	8 1/2 in		
Type Fluid in Hole	Water Based Mud		
Density	1.12 g/cm3	Viscosity	50 s
PH	9.5	Fluid Loss	4.8 cc
Source of Sample	Flowline		
Rm @ Measured Temp	0.2 @ 25 C		
Rmf @ Measured Temp	0.15 @ 25 C		
Rmc @ Measured Temp	0.3 @ 25 C		
Rm @ BHT	0.1 @ 100 C		
Max Recorded Temp	100 C		
Equipment Number			
Location			
Recorded By			
Witnessed By			

MAIN LOG

THREE COLUMN GRAPHS CONTAINING GAMMA RAY, VARIOUS RESISTIVITY CURVES, DRILLING DATA AND CALCULATED POROSITIES

MAIN SECTION

Company	Petroleum Development Oman LLC		
Well	Nimr-1		
Field	Nimr		
Location	Block 6		
County	Sultanate of Oman		
State			
Country			
API Number			
Other Services			
Permanent Datum	Ground Level	Elevation	0 m
Log Measured From	Kelly Bushing	Above Permanent Datum	0 m
Drilling Measured From	Kelly Bushing		
Date	15-Jan-2010		
Run Number	ONE		
Depth Driller	3000 m		
Depth Logger	3000 m		
Bottom Logged Interval	3000 m		
Top Logged Interval	2900 m		
Casing Driller	9 5/8 in @ 2900 m		
Casing Logger	9 5/8 in @ 2900 m		
Bit Size	8 1/2 in		
Type Fluid in Hole	Water Based Mud		
Density	1.12 g/cm3	Viscosity	50 s
PH	9.5	Fluid Loss	4.8 cc
Source of Sample	Flowline		
Rm @ Measured Temp	0.2 @ 25 C		
Rmf @ Measured Temp	0.15 @ 25 C		
Rmc @ Measured Temp	0.3 @ 25 C		
Rm @ BHT	0.1 @ 100 C		
Max Recorded Temp	100 C		
Equipment Number			
Location			
Recorded By			
Witnessed By			

MAIN SECTION

Company	Petroleum Development Oman LLC		
Well	Nimr-1		
Field	Nimr		
Location	Block 6		
County	Sultanate of Oman		
State			
Country			
API Number			
Other Services			
Permanent Datum	Ground Level	Elevation	0 m
Log Measured From	Kelly Bushing	Above Permanent Datum	0 m
Drilling Measured From	Kelly Bushing		
Date	15-Jan-2010		
Run Number	ONE		
Depth Driller	3000 m		
Depth Logger	3000 m		
Bottom Logged Interval	3000 m		
Top Logged Interval	2900 m		
Casing Driller	9 5/8 in @ 2900 m		
Casing Logger	9 5/8 in @ 2900 m		
Bit Size	8 1/2 in		
Type Fluid in Hole	Water Based Mud		
Density	1.12 g/cm3	Viscosity	50 s
PH	9.5	Fluid Loss	4.8 cc
Source of Sample	Flowline		
Rm @ Measured Temp	0.2 @ 25 C		
Rmf @ Measured Temp	0.15 @ 25 C		
Rmc @ Measured Temp	0.3 @ 25 C		
Rm @ BHT	0.1 @ 100 C		
Max Recorded Temp	100 C		
Equipment Number			
Location			
Recorded By			
Witnessed By			

ANHYDRITE

Company	Petroleum Development Oman LLC		
Well	Nimr-1		
Field	Nimr		
Location	Block 6		
County	Sultanate of Oman		
State			
Country			
API Number			
Other Services			
Permanent Datum	Ground Level	Elevation	0 m
Log Measured From	Kelly Bushing	Above Permanent Datum	0 m
Drilling Measured From	Kelly Bushing		
Date	15-Jan-2010		
Run Number	ONE		
Depth Driller	3000 m		
Depth Logger	3000 m		
Bottom Logged Interval	3000 m		
Top Logged Interval	2900 m		
Casing Driller	9 5/8 in @ 2900 m		
Casing Logger	9 5/8 in @ 2900 m		
Bit Size	8 1/2 in		
Type Fluid in Hole	Water Based Mud		
Density	1.12 g/cm3	Viscosity	50 s
PH	9.5	Fluid Loss	4.8 cc
Source of Sample	Flowline		
Rm @ Measured Temp	0.2 @ 25 C		
Rmf @ Measured Temp	0.15 @ 25 C		
Rmc @ Measured Temp	0.3 @ 25 C		
Rm @ BHT	0.1 @ 100 C		
Max Recorded Temp	100 C		
Equipment Number			
Location			
Recorded By			
Witnessed By			

MAIN SECTION

Company	Petroleum Development Oman LLC		
Well	Nimr-1		
Field	Nimr		
Location	Block 6		
County	Sultanate of Oman		
State			
Country			
API Number			
Other Services			
Permanent Datum	Ground Level	Elevation	0 m
Log Measured From	Kelly Bushing	Above Permanent Datum	0 m
Drilling Measured From	Kelly Bushing		
Date	15-Jan-2010		
Run Number	ONE		
Depth Driller	3000 m		
Depth Logger	3000 m		
Bottom Logged Interval	3000 m		
Top Logged Interval	2900 m		
Casing Driller	9 5/8 in @ 2900 m		
Casing Logger	9 5/8 in @ 2900 m		
Bit Size	8 1/2 in		
Type Fluid in Hole	Water Based Mud		
Density	1.12 g/cm3	Viscosity	50 s
PH	9.5	Fluid Loss	4.8 cc
Source of Sample	Flowline		
Rm @ Measured Temp	0.2 @ 25 C		
Rmf @ Measured Temp	0.15 @ 25 C		
Rmc @ Measured Temp	0.3 @ 25 C		
Rm @ BHT	0.1 @ 100 C		
Max Recorded Temp	100 C		
Equipment Number			
Location			
Recorded By			
Witnessed By			

REPEAT SECTION

Company	Petroleum Development Oman LLC		
Well	Nimr-1		
Field	Nimr		
Location	Block 6		
County	Sultanate of Oman		
State			
Country			
API Number			
Other Services			
Permanent Datum	Ground Level	Elevation	0 m
Log Measured From	Kelly Bushing	Above Permanent Datum	0 m
Drilling Measured From	Kelly Bushing		
Date	15-Jan-2010		
Run Number	ONE		
Depth Driller	3000 m		
Depth Logger	3000 m		
Bottom Logged Interval	3000 m		
Top Logged Interval	2900 m		
Casing Driller	9 5/8 in @ 2900 m		
Casing Logger	9 5/8 in @ 2900 m		
Bit Size	8 1/2 in		
Type Fluid in Hole	Water Based Mud		
Density	1.12 g/cm3	Viscosity	50 s
PH	9.5	Fluid Loss	4.8 cc
Source of Sample	Flowline		
Rm @ Measured Temp	0.2 @ 25 C		
Rmf @ Measured Temp	0.15 @ 25 C		
Rmc @ Measured Temp	0.3 @ 25 C		
Rm @ BHT	0.1 @ 100 C		
Max Recorded Temp	100 C		
Equipment Number			
Location			
Recorded By			
Witnessed By			

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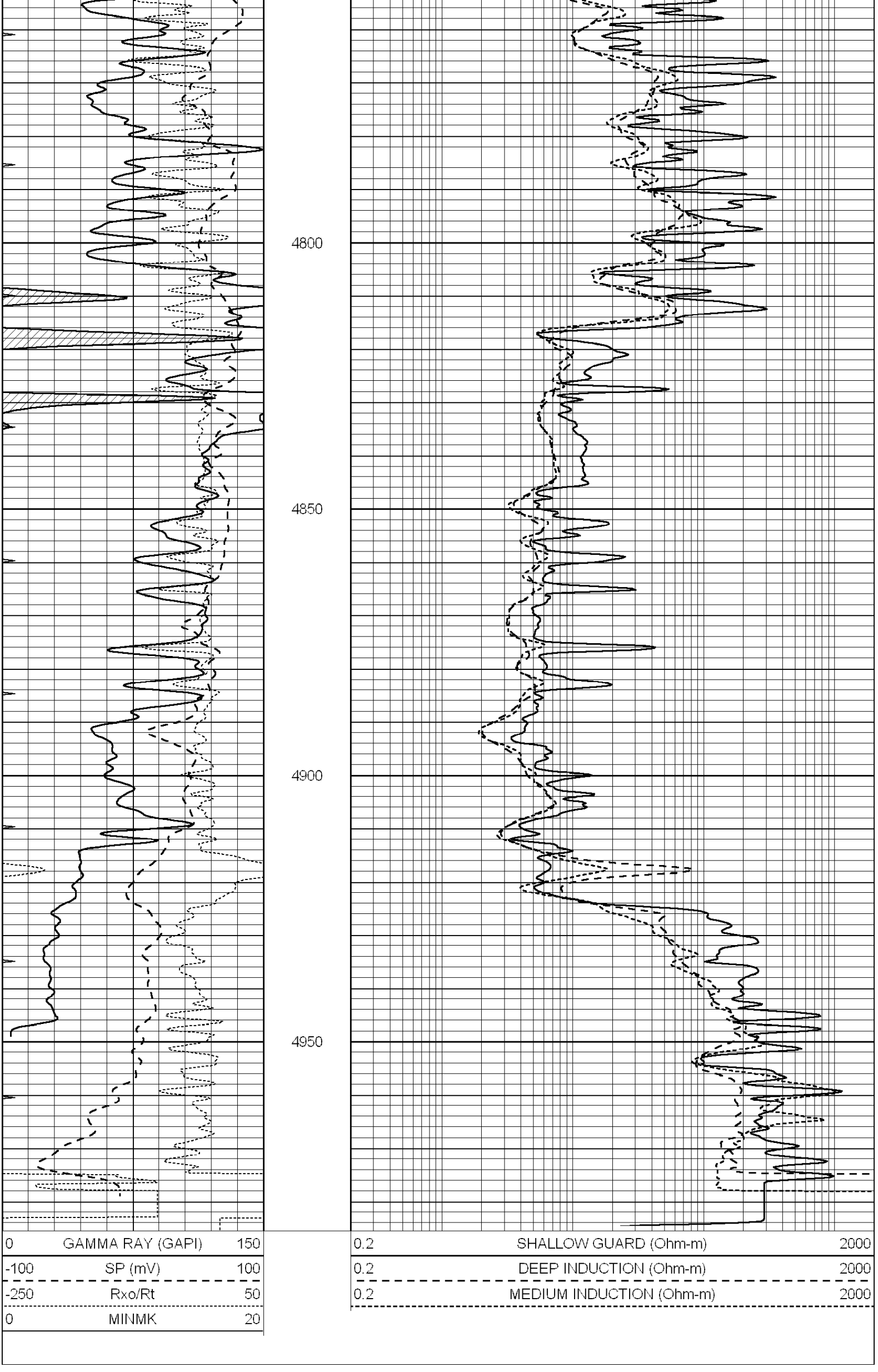

Calibration Report

Database File: 1598ddn.db
Dataset Pathname: pass4
Dataset Creation: Wed Aug 30 02:13:00 2017 by Log SOC 120430

Dual Induction Calibration Report

Serial-Model:	PROBE7-DILG
Surface Cal Performed:	Wed Aug 30 00:06:33 2017
Downhole Cal Performed:	Mon Jul 28 12:02:56 2008
After Survey Verification Performed:	Mon Jul 28 12:02:56 2008

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	620.000	0.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	675.000	-44.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		4000.000	mmho-m		

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		

Litho Density Calibration Report

Serial: 002 Model: PRB

Master Calibration — Performed Mon Aug 21 11:27:42 2017

	Background	Magnesium	Aluminum	Sandstone	
Window 1	837.1	10632.5	2945.1	12110.1	cps
Window 2	772.0	9117.4	2570.1	10197.3	cps
Window 3	631.7	4669.0	1481.9	5042.9	cps
Window 4	187.0	187.5	185.9	189.9	cps
Long Space	0.0	8345.4	1798.1	9425.3	cps
Short Space	1.1	1927.9	1285.9	2050.2	cps
Rho		1.7100	2.5960	1.3800	g/cc
Pe		0.0000	2.5700	1.5500	

Rib Angle	: 45.2	Rib Slope	: 1.008	Density/Spine Ratio	: 0.558
Spine Angle	: 75.2	Spine Slope	: 3.790	Spine Intercept	: -19.6

Before Survey Verification — Performed Wed Dec 31 18:00:00 1969

Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

After Survey Verification — Performed Wed Dec 31 18:00:00 1969

Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

Compensated Neutron Calibration Report

Serial Number: 070808
Tool Model: Probe

PRE-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

POST-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	070558	
Tool Model:	OPEN_GR	
Performed:	Wed May 31 00:09:32 2017	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2800	GAPI/cps