| | |
|---|---|
| Company | Petroleum Development Oman |
| Country | Oman |
| Field | Yibal |
| Well | Yibal-1234 |
| Rig | Rig 1 |
| Job Number | 1234567 |
| Log Date | 15-Jan-2024 |
| Run Number | 1 |
| Depth Driller | 3500 m |
| Depth Logger | 3498 m |
| Bottom Log Interval | 3495 m |
| Top Log Interval | 2800 m |
| Casing Driller | 9 5/8 in @ 2810 m |
| Casing Logger | 2808 m |
| Bit Size | 8 1/2 in |
| Drilling Fluid Type | WBM |
| Density | 1.18 g/cm3 |
| Viscosity | 48 s |
| Fluid Loss | 4.2 cm3/30min |
| Rm @ Meas. Temp | 0.21 ohmm @ 92 degC |
| Rmf @ Meas. Temp | 0.16 ohmm @ 92 degC |
| Rmc @ Meas. Temp | 0.28 ohmm @ 92 degC |
| Max Recorded Temp | 96 degC |
| Equipment | PDO-LOG-3 |
| Recorded By | A. Al-Rawahi |
| Witnessed By | S. Al-Hinai |

Comments

Run 1 at 8 Minutes Logger on Bottom.
Tool string: GR-CAL-DEN-NEU-DLL-MSFL.
Logged up to surface at good speed, repeat section recorded from 3200 to 3100 m for quality control.

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Main Pass

Company: Petroleum Development Oman
Well: Yibal-1234
Field: Yibal
Run: 1 | Pass: Main Pass
Depth Reference: Kelly Bushing
Elevation: 412 m above MSL
Log Date: 15-Jan-2024
Logging Speed: 1800 m/hr
Depth Range: 3495 m to 2800 m

| Curve | Min | Max |
|---|---|---|
| GR | 0 API | 150 API |
| CALI | 6 in | 16 in |
| RHOB | 1.95 g/cm3 | 2.95 g/cm3 |
| NPHI | 45 % | -15 % |
| DT | 140 us/ft | 40 us/ft |
| RT | 0.2 ohmm | 2000 ohmm |
| SP | -120 mV | 80 mV |

Formation Tops

| Top | Depth |
|---|---|
| Rus | 2812 m |
| Fiqa | 2905 m |
| Nahr Umr | 3010 m |
| Shuaiba | 3188 m |
| Kharaib | 3262 m |
| Natih | 3340 m |
| Lekhwair | 3418 m |



Main Pass

Company: Petroleum Development Oman
Well: Yibal-1234
Field: Yibal
Run: 1 | Pass: Main Pass
Depth Reference: Kelly Bushing
Elevation: 412 m above MSL
Log Date: 15-Jan-2024
Logging Speed: 1800 m/hr
Depth Range: 3495 m to 2800 m

| Curve | Min | Max |
|---|---|---|
| GR | 0 API | 150 API |
| CALI | 6 in | 16 in |
| RHOB | 1.95 g/cm3 | 2.95 g/cm3 |
| NPHI | 45 % | -15 % |
| DT | 140 us/ft | 40 us/ft |
| RT | 0.2 ohmm | 2000 ohmm |
| SP | -120 mV | 80 mV |

Formation Tops

| Top | Depth |
|---|---|
| Rus | 2812 m |
| Fiqa | 2905 m |
| Nahr Umr | 3010 m |
| Shuaiba | 3188 m |
| Kharaib | 3262 m |
| Natih | 3340 m |
| Lekhwair | 3418 m |

Repeat Pass

Company: Petroleum Development Oman
Well: Yibal-1234
Field: Yibal
Run: 1 | Pass: Repeat Pass
Depth Reference: Kelly Bushing
Elevation: 412 m above MSL
Log Date: 15-Jan-2024
Logging Speed: 1800 m/hr
Depth Range: 3200 m to 3100 m

| Curve | Min | Max |
|---|---|---|
| GR | 0 API | 150 API |
| CALI | 6 in | 16 in |
| RHOB | 1.95 g/cm3 | 2.95 g/cm3 |
| NPHI | 45 % | -15 % |
| DT | 140 us/ft | 40 us/ft |
| RT | 0.2 ohmm | 2000 ohmm |
| SP | -120 mV | 80 mV |

Formation Tops

| Top | Depth |
|---|---|
| Rus | 2812 m |
| Fiqa | 2905 m |
| Nahr Umr | 3010 m |
| Shuaiba | 3188 m |
| Kharaib | 3262 m |
| Natih | 3340 m |
| Lekhwair | 3418 m |

Wireline Logs Ltd. | Muscat Industrial Estate, Building 214, Unit 7 | P.O. Box 1234, Postal Code 112, Muscat, Sultanate of Oman | Tel: +968 2401 8800 | Fax: +968 2401 8801 | operations@wirelinelogs.om

| Loop: | Air | Loop | | Air | Loop | | m | b |
|---|---|---|---|---|---|---|---|---|
| Deep | -0.000 | 0.638 | V | 0.000 | 400.000 | mmho/m | 626.857 | 0.275 |
| Medium | 0.001 | 0.741 | V | 0.000 | 464.000 | mmho/m | 626.953 | -0.823 |
| **Internal:** | **Zero** | **Cal** | | **Zero** | **Cal** | | **m** | **b** |
| Deep | 0.000 | 0.638 | V | 0.000 | 400.000 | mmho/m | 627.013 | -0.291 |
| Medium | 0.001 | 0.741 | V | 0.000 | 464.000 | mmho/m | 627.190 | -0.915 |

Downhole Calibration

| | Readings | | | References | | | Results | |
|---|---|---|---|---|---|---|---|---|
| | Zero | Cal | | Zero | Cal | | m' | b' |
| Deep | 0.096 | 400.608 | mmho/m | 0.566 | 400.467 | mmho/m | 0.998 | 0.471 |
| Medium | -0.069 | 464.142 | mmho/m | 0.092 | 463.916 | mmho/m | 0.999 | 0.161 |
| LL3 | | 7.358 | V | | 750.000 | Ohm-m | | |
| | | 0.001 | V | | 12.000 | Ohm-m | | |
| | | -7.218 | V | | 3745.000 | mmho-m | | |

## Compensated Density Calibration Report

| | |
|---|---|
| Serial-Model: | 2501DHT-DHT |
| Source / Verifier: | / |
| Master Calibration Performed: | Fri Jul 29 13:49:52 2011 |

Master Calibration

| | Density | | Far Detector | Near Detector | |
|---|---|---|---|---|---|
| Magnesium | 1.730 | g/cc | 744.27 | 293.58 | cps |
| Aluminum | 2.700 | g/cc | 138.48 | 189.15 | cps |

Spine Angle = 75.35 Density/Spine Ratio = 0.558

| | Size | | Reading |
|---|---|---|---|
| Small Ring | 7.90 | in | 6064.22 |
| Large Ring | 14.00 | in | 10296.80 |

## Gamma Ray Calibration Report

| | | |
|---|---|---|
| Serial Number: | 2000 | |
| Tool Model: | P2000 | |
| Performed: | Thu Jul 28 10:33:00 2011 | |
| Calibrator Value: | 1.0 | GAPI |
| Background Reading: | 0.0 | cps |
| Calibrator Reading: | 1.0 | cps |
| Sensitivity: | 0.2200 | GAPI/cps |

## Neutron Calibration Report

| | | |
|---|---|---|
| Serial Number: | 5108 | |
| Tool Model: | PROBE | |
| Performed: | Sat Jul 30 10:54:34 2011 | |
| Calibrator Value: | 1 | NAPI |
| Calibrator Reading: | 1 | cps |
| Sensitivity: | 1 | NAPI/cps |

| Sensor | Offset (ft) | Schematic | Description | Len (ft) | OD (in) | Wt (lb) |
|---|---|---|---|---|---|---|
| | | | None | 0.75 | 1.50 | 5.00 |
| NEU | 37.96 | | NEU-PROBE (5108)<br>Probe | 4.92 | 3.63 | 85.00 |
| GR | 32.57 | | GR-P2000 (2000) | 3.67 | 3.25 | 40.00 |
| | | | CDL-DHT (2501DHT)<br>Digital High Temp CDL Tool | 9.69 | 4.00 | 201.00 |
| LSD | 23.78 | | | | | |
| DCAL | 23.49 | | | | | |
| SSD | 23.24 | | | | | |
| HEADVOLT | 21.47 | | | | | |
| CILD | 10.60 | | DIL-Probe (080522)<br>Probe Dual Induction | 21.47 | 4.00 | 345.00 |
| SP | 10.60 | | | | | |
| CILM | 6.89 | | | | | |
| RLL3 | 1.70 | | | | | |

| | |
|---|---|
| Dataset: | cgashowwooh.db: field/well/run1/pass2 |
| Total Length: | 40.49 ft |
| Total Weight: | 676.00 lb |
| O.D. | 4.00 in |