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| **To,** **Prof. Juerg M. Matter** Project Director, ODP | ***Doc. No.:*** *AZD/ODP/GT-3A/WR-09****Dated:*** *25-02-2017* |
| **Client** | OmanDP | **Consultant** | AZD Engineering Consultancy |
| **Contractor** | Lalbuksh Voltas Engineering | **Sub-contractor** | Geo-Solutions Engineering |
| **Subject**  | **Weekly Progress Report** |  |
| **Project** | **Phase-1: OmanDP -** Scientific Drilling Programme for Oman Drilling Project in Ash Sharqiyah North Governorate and Ad Dakhiliyah Governorate. |

**WEEKLY PROGRESS REPORT-09**

**(19th of February-25th of February 2017)**

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| ***LOCATION DETAILS:*** |
| **Rig ID** | Rig-1 (Dynatech) | **Drilling Method** | Wire line; Diamond Core Drill  |
| **Drill Hole ID** | **GT-3A**  | **Location** | Wadi Abdah |
| **Coordinates** | UTM: 624193.0E 2556476.0N | **Elevation** | **-** |
| **Azimuth** | **-** | **Inclination** | 90º/ Vertical |
| **Drilling** | HQ/NQ Size | **Method** | Wire line-Diamond Core Drilling |
| **Target Depth**  | 400 mtrs | **Geol. Target** | Gabbro-Sheeted Dyke Transition |

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| ***UPDATED WEEKLY SUMMARY:*** |
| **Week** | **DH ID** | **Drilling Location** | **Core Size** | **Drilling Week** | **Weekly Drilling (meters)** | **Average Drilling** |
| *From* | *To* | *HQ* | *NQ* | *Total* | *(Mtr/day)* |
| 01 | GT-2A | Wadi Gideah | HQ | 25-12-16 | 31-12-16 | 115.40 | - | 115.40 | 16.49 |
| 02 | GT-2A | Wadi Gideah | HQ/NQ | 01-01-17 | 07-01-17 | 34.30 | 47.70 | 82.00 | 11.71 |
| 03 | GT-2A | Wadi Gideah | NQ | 08-01-17 | 14-01-17 | - | 135.00 | 135.00 | 19.29 |
| 04 | GT-2A | Wadi Gideah | NQ | 15-01-17 | 21-01-17 | - | 67.60 | 67.60 | 09.66 |
| 05 | GT-1A | Wadi Gideah | HQ | 22-01-17 | 28-01-17 | 134.70 | - | 134.70 | 19.24 |
| 06 | GT-1A | Wadi Gideah | HQ/NQ | 29-01-17 | 04-02-17 | 117.00 | 46.85 | 163.85 | 23.40 |
| 07 | GT-1A/ GT-3A | Wadi Gideah Wadi Abdah | NQ HQ | 05-02-17 | 11-02-17 | -02.70 | 101.45- | 104.15 | 14.87 |
| 08 | GT-3A | Wadi Abdah | HQ | 12-02-17 | 18-02-17 | 158.50 | - | 158.50 | 22.64 |
| **09** | **GT-3A** | **Wadi Abdah** | **HQ/NQ** | **19-02-17** | **25-02-17** | **96.10** | **32.00** | **128.10** | **18.30** |
|  | ***Grand Total*** | ***658.70*** | ***430.60*** | ***1089.3*** | ***17.29*** |

***\*****This week, the average daily drilling is* ***18.30m/d****. viz. relatively less compared to the past week, because of the time utilized for change from HQ to NQ. The Average daily drilling based on nine weeks (63 days) is* ***17.29m/d*** *now which continues to improve and is better than the minimum required project average i.e.* ***14.95m/day****.*

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| ***WEEK 09: DAILY DRILLING*** |
| **Date** | **Drilling (Meters)** | **Core Size** | **Remarks** |
| **From (m)** | **To (m)** | **Total** | **(HQ/NQ)** |
| 19-02-2017 | 161.20m | 191.20 | 30.00 | HQ | Continue to drill further with HQ drill bit. Total loss of circulation continues |
| 20-02-2017 | 191.20 | 218.20 | 27.00 | HQ | Continue to drill further with HQ drill bit. Total loss of circulation continues  |
| 21-02-2017 | 218.20 | 242.20 | 24.00 | HQ | Continue to drill further with HQ drill bit. Total loss of circulation continues; Recovery of 2.75m intact core of dyke-gabbro transition. |
| 22-02-2017 | 242.20 | 257.30 | 15.10 | HQ | Continue to drill further with HQ drill bit. Total loss of circulation continues; With increase in **s**ystem pressure, high torque and heavy load on rig engine, it’s difficult to drill further with HQ amid uncased hole and no fluid circulation. So decision taken to change to NQ. |
| 23-02-2017 | - | - | - | NQ | POOH the HQ drill assembly; installed NC casing with shoe bit and RIH the NQ drill assembly up to 257.3mbgl to drill further. Started to drill but found some rubble; started to clean the hole.Fluid circulation resumes |
| 24-02-2017 | 257.30 | 258.80 | 1.50 | NQ | Started to drill with NQ drill bit but found some rubble; Cleaned the hole and then resumed drilling |
| 25-02-2017 | 258.80 | 289.30 | 30.50 | NQ | Continue to drill further deep with NQ drill bit with no issues. |
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| ***WEEK 09: OTHER WORKS*** |
| * Core Recovery, Photography, Marking, Sectioning, Scanning, Labeling, Sketching, Description, Sampling, Packing and Storage etc., being performed as per the standard procedure of ICDP.
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| ***WEEK 09: SITE ISSUES*** |
| **Contractual Issues**  | \*None |
| **Drilling/ Technical Issues**  | \*With increase in **s**ystem pressure, high torque and heavy load on rig engine, drilling was difficult/not safe. So, decision taken to change to NQ bit.\*Total loss of drilling fluid circulation continued; but resumed again after the installation of NC casing. \*After NC casing installation and run in hole of NQ drill assembly found some rubble; cleaned the hole and then resumed drilling. It caused the slow drilling progress for a day. |
| **Health & Safety Issues** | \*With increased wind velocity and minor possibility of rain, extra care taken to strengthen the site camp and cover up of core boxes and other equipments. |
| **Any Other Issues** | \* None |

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| ***WEEK 09: DETAILS OF ONSITE PERSONNEL*** |
| **ODP** | Damon Teagle (D), Juergen Koepake (D), Johan Lissenberg (D), Lyderic France (D), Emma Bennett (D), Marine Boulamger (D), Jude Coggon (A), Peter Kelemen (A) Louise Koornneef , Juerg Matter Nicholas Bompard, Christopher MacLeod, Antony Morris *A=Arrives; D=Departs*  |
| **AZD** | Nehal Hasan Warsi |
| **LBV** | Gopi Krishnan |
| **GSE** | Sheikh Olliullah; Abdul Khaliq, Mohd. Jameel, Mohd. Alauddin; HDD for water tanker |
| **Others** |  *Geologist Engineers from Public Authority of Mining:* Salem al Humaimi and Saif al Shahri |
| **Visitors** | \**Mohammed Amer Al Hajri (Manager) and Saeed al Qanubi (Assistant Officer) from the Department of Environment and Climate Affairs, the Governorate of North-east Ibra visit the drill site.* |

Regards,

**Nehal H Warsi**

*Site Geologist,*

*AZD Engineering Consultancy*

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