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| **To,** **Prof. Juerg M. Matter** Project Director, ODP | ***Doc. No.:*** *AZD/ODP/GT-3A/WR-08****Dated:*** *18-02-2017* |
| **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-08**

**(11th of February-18th 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 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** |
|  | ***Grand Total*** | ***562.60*** | ***398.60*** | ***961.20*** | ***17.164*** |

***\*****This week drilling is way higher compared to the past week. The highest meterage in a single day is* ***39.65m*** *and the average for this week is* ***22.64m/d****. The Average daily drilling based on eight weeks (56 days) is* ***17.164*** *now which continues to be better than the minimum required project average i.e.* ***14.95m/day****.*

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| ***WEEK 08: DAILY DRILLING*** |
| **Date** | **Drilling (Meters)** | **Core Size** | **Remarks** |
| **From (m)** | **To (m)** | **Total** | **(HQ/NQ)** |
| 12-02-2017 | 02.70 | 11.85 | 9.15 | HQ | Continued to drill with HQ drill bit from 2.70mbgl-11.85mbgl; POOH and started to ream with shoe bit and install HW surface casing up to 8mbgl. |
| 13-02-2017 | 11.85 | 24.05 | 12.20 | HQ | Continued to ream with shoe bit installing HW surface casing up to 9mbgl. Run in hole the HQ drill bit assembly which starts re-drilling from 8.3 mbgl some fallen materials and then solid rock further. Core recovered shows the deviation from previously drilled hole. Continue drilling to straighten the hole up to 11.85m. Drilled further up to 24.05mbgl. 80% circulation after casing but total loss of circulation again from 23m onward |
| 14-02-2017 | 24.05 | 63.70 | 39.65 | HQ | Continued to drill with HQ drill bit from 24.05mbgl to 63.70mbgl. Total loss of circulation. *39.65m (Highest drilling meterage in a day, in the project)* |
| 15-02-2017 | 63.70 | 100.30 | 36.6 | HQ | Continued to drill with HQ drill bit from 63.70m to 100.30mbgl. Total loss of circulation continues |
| 16-02-2017 | 100.30 | 124.70 | 24.40 | HQ | Continued to drill with HQ drill bit from 100.30m to 124.70mbgl. Total loss of circulation continues Stopped to drill at 2:30 PM because of the non-availability of drilling water. |
| 17-02-2017 | 124.70 | 132.80 | 8.10 | - | Continued to drill with HQ drill bit from 124.70m to 132.80mbgl. Total loss of circulation continues |
| 18-02-2017 | 132.80 | 161.20 | 28.40 | HQ | Continued to drill with HQ drill bit from 132.80m to 161.20mbgl. Total loss of circulation continues. Drilling starts at 10:00 AM because of the non-availability of drilling water. |
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| ***WEEK 08: 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.
* Loading of GT-1A packed core boxes onto truck and transported to Muscat for storage at Ma’abella.
* BT-1 site permit issues sorted out. Site permit obtained by the contractor.
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| ***WEEK 08: SITE ISSUES*** |
| **Contractual Issues**  | \*Waiting for the drilling water: 2 hours on Thursday and 3 hours on Saturday; *Solved.* |
| **Drilling/ Technical Issues**  | \*HQ drill bit assembly starts re-drilling from 8.3 mbgl some fallen materials and then solid rock further. Core recovered shows the deviation from previously drilled hole. Continue drilling to straighten the hole up to 11.85m. *Solved.* |
| **Health & Safety Issues** | Cleaning and levelling of GT-1A and GT-2A sites; *Solved* |
| **Other Issues** | **\***Lalvol Truck breakdown; delay to transport GT-1A core boxes to Muscat; *Solved* |

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| ***WEEK 08: DETAILS OF ONSITE PERSONNEL*** |
| **ODP** | Jude Coggon (D), Gretchen Bernasconi (D), Michelle Harris (D), Nicholas Bompard, Julie Noel (D), Damon Teagle, Juerg Matter, Juergen Koepake (A) Johan Lissenberg (A), Lyderic France (A), Emma Bennett (A), Louise Koornneef (A), Marine Boulamger (A), *A=Arrives; D=Departs* |
| **AZD** | Nehal Hasan Warsi |
| **LBV** | Gopi Krishnan |
| **GSE** | Sheikh Olliullah (D); Abdul Khaliq, Mohd. Jameel, Mohd. Alauddin and LDD; HDD for water tanker |
| **Others** |  None |
| **Visitors** | *A group of 3 French Geologists visited the site.* |

Regards,

**Nehal H Warsi**

*Site Geologist,*

*AZD Engineering Consultancy*

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