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| **To,** **Prof. Juerg M. Matter** Project Director, ODP | ***Doc. No.:*** *AZD/ODP/BT-1B/WR-12****Dated:*** *18-03-2017* |
| **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-12**

**(12th -18th of March 2017)**

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| ***LOCATION DETAILS:*** |
| **Rig ID** | Rig-1 (Dynatech) | **Drilling Method** | Wire line; Diamond Core Drill  |
| **Drill Hole ID** | **BT-1B**  | **Location** | **Wadi Mansah** |
| **Coordinates** | UTM 620988E 2584403N | **Elevation** | **-** |
| **Azimuth** | N30° | **Inclination** | Inclined 75° |
| **Drilling** | HQ Size | **Method** | Wire line-Diamond Core Drilling |
| **Target Depth**  | 400 mtrs | **Geol. Target** | Altered Peridotites-Basal Thrust |

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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 |
| 10 | GT-3A | WadiAbdah | NQ | 26-02-17 | 04-03-17 | - | 110.70 | 110.70 | 15.81 |
| 11 | BT-1B | Wadi Mansah | HQ | 05-03-17 | 11-03-17 | 71.45 | - | 71.45 | 10.20 |
| ***12*** | ***BT-1B*** | ***Wadi Mansah*** | ***HQ-NQ*** | ***12-03-17*** | ***18-03-17*** | ***31.90*** | ***95.65*** | ***127.55*** | ***18.22*** |
|  | ***Grand Total*** | ***762.05*** | ***636.95*** | ***1399.0*** | ***16.65*** |

***\*****This week, average daily drilling is* ***18.22m/d****. It’s comparatively better as drilling proceeds. The Average daily drilling based on 12 weeks (84 days) is* ***16.65m/d*** *now which continues to be better than the minimum required project average i.e.* ***14.95m/day.****.*

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| ***WEEK 12: DAILY DRILLING*** |
| **Date** | **Drilling (Meters)** | **Core Size** | **Remarks** |
| **From (m)** | **To (m)** | **Total** | **(HQ/NQ)** |
| 12-03-2017 | 71.45 | 94.10 | 22.65 | HQ | Continue Drilling; Complete loss of circulation  |
| 13-03-2017 | 94.10 | 112.40 | 18.30 | HQ | Continue Drilling; Complete loss of circulation |
| 14-03-2017 | 112.40 | 130.70 | 18.30 | HQ | Continue Drilling; Complete loss of circulation  |
| 15-03-2017 | 130.70 | 155.10 | 24.40 | HQ | Continue Drilling; Complete loss of circulation  |
| 16-03-2017 | 155.10 | 167.10 | 12.00 | HQ | Continue Drilling; Complete loss of circulation ; PooH the HQ drill assembly to change to NQ |
| 17-03-2017 | 167.10 | 170.15 | 3.05 | NQ | Installation of NC casing with shoe bit. RiH NQ drill bit assembly. Started to drill with NQ drill bit. Fluid circulation resumes. |
| 18-03-2017 | 170.15 | 199.00 | 28.85 | NQ | Continue Drilling; Continued circulation |
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| ***WEEK 12: 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 12: SITE ISSUES*** |
| **Contractual Issues**  | \*None |
| **Drilling/ Technical Issues**  | \*Complete loss of circulation. \***Difficulties in drilling because of the variation in formation characteristics.**\*Drilling work hindered for an hour because of the non-availability of water.**\***Core barrel stuck inside. PooH the drill assembly and removed the core barrel.\*With complete loss of circulation, system pressure keeps on increasing, Hence, installed NC casing with shoe bit and changed to NQ size & so that the fluid circulation continues with the normal drilling condition.  |
| **Health & Safety Issues** | **\*None** |
| **Any Other Issues** | \*Water tanker breakdown; Repaired. |

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| ***WEEK 12: DETAILS OF ONSITE PERSONNEL*** |
| **ODP** | Peter Kelemen, Jude Coggon, Craig Manning, David Zeko, Danial Nothaft, Romain Lafay and Americus Perez, Juan Carlos, Nicholas Bompard, |
| **AZD** | Nehal Hasan Warsi |
| **LBV** | Gopi Krishnan |
| **GSE** | Sheikh Olliullah; Abdul Khaliq, Mohd. Jameel, Mohd. Alauddin; HDD for water tanker |
| **Others** | *MRMWR: Engr. Shihab al Balushi and Engr. Hamoud Al Siyabi, onsite training programme.* |
| **Visitors** | *\* French Researcher with Japanese Students visit the drill site and areas around it.****\**** *Four members of Geophysical logging team of MRMWR visits the site and areas around it.****\**** *A team of Japanese researchers visit the drill site and surrounding areas.**\*A group of GuTech Students led by Anna Jesus visit the drill site and nearby areas.* |

Regards,

**Nehal H Warsi**

*Site Geologist,*

*AZD Engineering Consultancy*

**GSM: +968 98037217; 79113454**

**Email: nhwarsi@gmail.com**