Well: DA#1 (ADB)

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| **General Well Data** | |
| Well Name | :DA#1 (ADB) |
| Field/Structure | :Agartala Dome |
| Well Type | :Exploratory ‘B’ Category |
| Target Depth | :3000 m |
| Drilled Depth | :3450.20 m |
| Rig | :E-1400-X |
| Location | :Latitude - 23º44′40.9″ N  Longitude - 91º20′39 ″ E |
| Elevation | :GL- 55.678 m  KB- 63.818 m |
| **Operations at a Glance:** |  |
| Drilling Rig (Rig- E-1400-X) | :05.10.1986 to 14.04.1987 |
| 1st Work Over Job (Rig- A 50 Y) | :16.05.1987 to 05.08.1987 |
| 2nd Work Over Job (Rig- IR-500-I) | :28.05.2002 to 09.01.2003 |
| 3rd Work Over Job (Rig- IR-500-I) | :24.04.2005 to 20.07.2005 |
| 4th Work Over Job (Rig- IR-500-I) | :09.02.2011 to 14.02.2011 |
| 5th Work Over Job (John-100-25) | :13.10.2017 to 29.10.2017 |
| 6th Work Over Job (John-100-25) | :23.01.2018 to 23.02.2018 |
| 7th Work Over Job (John-100-25) | :24.02.2019 to 03.03.2019 |

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| **Casing Details:** | | | | |
| **Casing Size (inches)** | **Shoe at (m)** | **Cement Rise** | **Grade & Thickness** | **Remarks** |
| 20 | 73.00 | Up to surface | K-355, 132ppf, STKC | - |
| 13⅜ | 724.24 | Up to surface | C-95, 68ppf, BTC, 12.199mm | F/C at 699.78m |
| 9⅝ | 1540.85 | 516m from surface | N-80, 47ppf, BTC, 12mm | F/C at 1516.07m |
| 5½ | 3214.07 | 2275m from surface | N-80, 23ppf, LTC, 10.54mm | F/C at 3188.62m |

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| **Operation with drilling rig (05.10.1986 to 14.04.1987)**  **Rig: E-1400-X**  **Objective:** To explore the hydrocarbon prospect of the Surma sequence of the rock above the anticipated abnormally high pressure regime  **Operations:** The well **DA#1 (ADB**) was drilled as on exploratory well during Oct’1986 to Apr’ 1987. The target depth of this well was revised from the projected depth of 3000 m to 3600m, but due to excessive caving / poor hole conditions, drilling was terminated at the depth of 3450.20m. Following six objects recommended for initial production testing. | | | |
| **Object** | **Sand** | **Interval (mMDKB)** | **Testing Result** |
| Object-I |  | 3137.0-3143.0, 3153.0-3160.0 | Produced 6000 m3/d gas with 70 m3/d water (Max. salinity- 7.6 gpl) |
| 3137-3143 (tested separately) | Produced 5000 m3/d gas with 45 m3/d water (Max. salinity- 9.8 gpl) |
| Object-II |  | 3043.0-3063.0 | Produced 9000 m3/d gas with 58 m3/d water (Max. salinity- 8.6 gpl) |
| Object-III |  | 2913.0-2935.0 | To be tested by workover rig |
| Object-IV |  | 2859.0-2863.0 |
| Object-V | PA-50 | 2724.0-2753.0 |
| Object-VI | PA-40 | 2625-2633 |

**1st Workover operation: Rig: A 50 Y (16.05.1987 to 05.08.1987)**

**Objective:** To test remaining four objects

**Operations:** Remaining four objects were tested during May-August 1987. Out of the four objects, object – III & IV yielded water influx with feeble gas. Object – V (PA-50) & Object – VI (PA-40) were perforated together but tested separately by putting sliding sleeve with mechanical packer. Pay sand PA-50 produced gas @ 33,130 m3/day with 13.17m3 /day of water through 6mm bean. Pay sand PA- 40 produced gas @ 1,04,000 m3/day through 6mm bean. Well was lying idle as standby well to meet the additional gas demand in future.

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| **Brief of testing result of Object –V (PA-50):** | | | | | |
| **Bean (mm)** | **FBHP/ SBHP (kg/cm2)** | **FTHP/ STHP (kg/cm2)** | **Gas Rate (m3/d)** | **Water Rate (m3/d)** | **Remarks** |
| 0.0 | 273.2 | 221.5 | - | - | SCHP-221.5 Kg/cm2 |
| 8.0 | 98.0 | 46.0 | 36,000 | 15.50 |  |
| 6.0 | 132.0 | 102.0 | 33,130 | 13.17 |  |
| 5.0 | 158.0 | 119.5 | 29,500 | 10.33 |  |
| 4.0 | 177.0 | 137.0 | 25,200 | - |  |
| 3.0 | 191.0 | 155.0 | 5,971 | - |  |

**Status**: Object –V found to be commercial producer of gas with water.

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| **Brief of testing result of Object –VI (PA-40):** | | | | | | |
| **Bean (mm)** | **FBHP/ SBHP (kg/cm2)** | **FTHP/ STHP (kg/cm2)** | **FCHP/ SCHP (kg/cm2)** | **Gas Rate (m3/d)** | **Water Rate (m3/d)** | **Condensate Rate (m3/d)** |
| 0.0 | 260.45 | - | - | - | - | - |
| 10.0 | - | 190 | 200 | 2,82,000 | 1.20 | 0.50 |
| 8.0 | 241.84 | 197 | 204 | 1,74,000 | 0.98 | 0.27 |
| 7.0 | 244.50 | 200 | 207 | 1,40,000 | 0.50 | 0.06 |
| 6.0 | 249.44 | 204 | 211 | 1,04,000 | 0.41 | 0.06 |
| 5.0 | 253.05 | 207 | 214 | 74,700 | 0.24 | 0.05 |
| 4.0 | 254.77 | 211 | 218 | 48,500 | - | - |
| Average static pressure gradient- 0.16Kg/cm2/10m.  Average flowing pressure gradient (6.0mm bean)-0.17Kg/cm2/10m. | | | | | | |

**Status:** Object-VI (Pay Sand PA-40) found to be commercial producer of gas.

**2nd Workover operation: Rig: IR-500-I (28.05.2002 to 09.01.2003)**

**Objective:** Repair of outer annulus with cement squeeze job above cement rise of 2275m behind 5½˝casing with expected cement rise up to 1500m to isolate the gas channel & gas bearing layer at 1590-1620m and isolation of pay sand PA-50 by bridge plug and suitable completion of the well in PA-40.

**Operations:** The well was subdued with mud of sp. gr. 1.35. Released packer and pulled out the whole assembly. Bridge plug was set at 2280m, and perforated @6SPM at 2180m for cement repair job and established circulation from inner annulus to outer annulus. Squeezed cement and tagged cement top at 1901m and while testing the plug, communication to outer annulus was observed. Casing leakage was detected between 1470-1475m. Squeezed cement in the leakage point and felt cement top at 1473m. Tested cement plug/ casing hermitically O.K. Drilled and cleared the cement plug upto 1500m and again checked hermeticity and found O.K. Drilled & cleared the hole further down to 2280m i.e. upto Bridge Plug top and casing was found hermetical both with +ve and –ve tests. Recorded CBL-VDL and cement job was found to be satisfactory. Milled bridge plug and pushed it down to 2705m. Set bridge plug at 2675m and isolated PA-50.

Re-perforated the interval 2625.0-2633.0m in pay sand PA-40 and activated the well by gas injection from nearby by well DA#12. In spite of isolation of production casing by sliding sleeve and packer, pressure build-up of 190Kg/cm2 to 210Kg/cm2 was observed in the tubing-casing annulus. Circulated mud in the annulus followed by water and then closed the sliding sleeve. The well was activated by gas injection. The well got active with gas, but the communication from tubing to annulus could not be stopped. Observed leakage in the adapter flange and subdued the well with mud and tightened the flange and tested the body seal at 4500psi. Displaced tubing volume mud with water and closed the sliding sleeve. Applied gas injection inside the tubing at 120Kg/cm2 and the well became active with gas flow, but the annulus remained charged with gas (SCHP-180Kg/cm2). Pulled out whole assembly and re-completed the well with mechanical packer at 2605.26m and sliding sleeve at 1801.42m. Activated the well by gas injection and detail reservoir studies (Flow After Flow Study and Build up Study with pressure & temperature gradient) were carried out to assess the production potential of the well.

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| **Brief of Reservoir Studies of Object –VI (Pay Sand PA-40):** | | | | |
| **Bean (mm)** | **FBHP/SBHP (kg/cm2)** | **FTHP/STHP (kg/cm2)** | **Gas Rate (m3/d)** | **Liquid Rate (m3/d)** |
| 0.0 | 245.28 | 223.00 | - | - |
| 6.0 | 231.80 | 209.00 | 96,890 | - |
| 7.0 | 225.37 | 198.00 | 131,800 | 0.09 |
| 8.0 | 219.40 | 190.00 | 159,980 | 0.48 |
| Absolute Open Flow Potential (AOFP)- 5.07LCMD.  Maximum Allowable Gas Rate- 1.32LCMD.  SBHP (1780m)- 244.36Kg/cm2.  Bottom most Pressure Gradient- 0.16Kg/cm2/ 10m.  SBHT (1780m)- 156.38ºF.  Bottom most Temperature Gradient- 4.77ºF/ 100m. | | | | |

**Status of Well:** Completed as Gas producer in PA-40(2625-2633m)

**3rd Workover operation: Rig: IR-500-I (24.04.2005 to 20.07.2005)**

**Objective**: Installation of bottom hole choke to prevent hydrate formation as well was unable to produce gas with full potential (Hydrate Problem)

**Operations:** Work-over rig was deployed in the well for installation of bottom hole choke to prevent hydrate formation. Observed SCHP as 200Kg/cm2 and STHP as 53Kg/cm2 respectively. Opened the sliding sleeve and killed the well with mud of sp. gr. 1.25. Released mechanical packer and pulled out complete bottom hole assembly with packer and sliding sleeve. Ran in 5½″ scraper with 2⅞″ tubings and scraped the hole down upto 2667m. Displaced well volume mud with water and pressurized the well through annulus upto 100Kg/cm2, observed no pressure drop in the well and no charging of outer annulus. Increased pressure upto 125Kg/cm2; observed pressure drop of 25Kg/cm2 in one hour without any pressure/fluid movement. After conditioning the well with mud of sp. gr. 1.25, pulled out complete tubing string with scrapper. Ran in 2⅞″ tubings with hydraulic packer, landing nipple and sliding sleeve. Observed held up at 440m and obstruction could not be cleared by circulation. Cleared the hole upto top of perforation with junk basket. Ran in completion string with POP, packer, landing nipple and sliding sleeve and set hydraulic packer at 2062m with landing nipple and flow coupling at 2494m and sliding sleeve at 2474m by cementing unit after displacing well volume mud with water. Tested hydraulic packer at 100Kg/cm2 and found to be O.K. Opened sliding sleeve and charged high pressure gas from Agartala Dome EPS in the tubing up to 120Kg/cm2. Closed sliding sleeve and bled off tubing pressure. Well became active. Closed the well. STHP-212Kg/cm2, SCHP-94Kg/cm2. Installed 6.0mm bottom hole choke by wire lineand well opened to flow through 15.0mm surface bean to Agartala Dome EPS. Observed flow of gas continuously with THP-40Kg/cm2 and CHP-80Kg/cm2 without formation of hydrate. Well closed to record shut-in pressure, observed maximum STHP-195Kg/cm2, SCHP-65Kg/cm2 and outer annulus pressure-nil.

In view of suspected tubing leakage, pulled out complete tubing string with packer and bottom hole assembly. Bottom could be cleared only upto 2612m with 5½″ scrapper despite repeated reciprocation and circulation and failed to clear further down. Cleared bottom upto 2668m with TCR bit (4½″) and drill pipes. Prior to setting of permanent packer, checked bottom clearance up to 2615m with junk basket by HLS logging unit, but junk basket got stuck up at 2442m while pulling out. The same was sheared from its weakest point. Fished out entire assembly of logging tool (junk basket) and the well was scraped down to 2667m with 5½″ scrapper. Again while checking the bottom clearance with junk basket by HLS logging unit prior to setting of permanent packer, held up was observed at 2587m during running in and at 2484m while pulling out. Therefore, it was decided to lower hydraulic packer instead of permanent packer. Ran in POP, hydraulic packer, landing nipple, sliding sleeve with 2⅞″ tubings. Well volume mud displaced with water and set hydraulic packer at 2582m with landing nipple, sliding sleeve and POP at 2488.32m, 2470.08m and 2601.32m respectively. Charged high pressure gas up to 120Kg/cm2 from Agartala Dome EPS and closed the sliding sleeve. Observed STHP of 220Kg/cm2 and opened the well through 6.0mm bean, well became active flowing gas to flare. Installed 6.0mm bottom hole choke and flowed the well through 10.0mm surface bean. Observed STHP of 80Kg/cm2.

**Status of well:** Completed as a Gas Producer in PA-40 (2625.0-2633.0m)from Pay Sand PA-40 with 6 mm Bottom Hole Choke.

**4th Workover operation: Rig: IR-500-I (09.02.2011 to 14.02.2011)**

**Objective:** To address the safety aspect (charged outer annulus) of well

**Operations:** Well DA#1 has produced with an average gas rate of 1,00,000 scmd with nil water through 6 mm bean ( Jan’98-Jan’99 and Aug’03-Jan’06). From Nov’08 onwards it flowed with an average gas rate of 45,000 scmd and negligible liquid rate through 4.0 mm bean. The well had to be frequently closed due to hydrate problem. As on September 09, 2010 the well was flowing gas @ 40,558 scmd and total liquid @ 0.3 m3/day through 4mm bean. Presently, outer annulus (5 ½” x 9 5/8”) of the well has been found charged. As on 31.01.2011, it has cumulatively produced 33.218 MMSCM of gas.

As per the recommendation of MDT 2007 on Well Head Survey, the well AD# 1, diagnosed with charged outer annulus, was taken up for Safety Work Over Job. However, at the time of Pre-work over meet on the site of AD# 1, it was confirmed that outer annulus (5½” x 95/8” section) was not charged. It was also confirmed that lower and middle master valve are holding properly. The faulty upper valve was replaced with new one. Status of the well was discussed in ORM on February 14, 2011 and decision was taken to release the rig. The rig IR-500-I was, therefore, released from the well AD# 1 w.e.f. 1800 hrs of February 14, 2011 for the next location AD#27 in Agartala Dome Field.

**Status of the Well:** Replaced faulty Upper Master Valve and established that outer annulus not charged.

**5th Workover Operation: Rig: John-100-25 (13.10.2017 to 29.10.2017)**

**Objective:** Well Activation after removing Bottom Hole Choke

As well ceased to flow due to water loading and could not be activated after several activation efforts, WOR was deployed for Well Activation after removing Bottom Hole Choke

Well was subdued. Released H/Packer & Pulled out tubings with H/Packer+S/S+Bottom hole chock. Scrapped & cleared the well down to 2640 m. Lowered 2 7/8" tubings with shoe & M/Packer+S/S+E/J. Set packer at 2596.7 m & tested at 500 psi. Applied N2 & observed cut at 2910 psi. Knocked out 19 m3 water. Bled off pressure. Well was not active. Again Applied N2 several times but well did not become active. Well flowing very mild gas intermittently with water flow. Salinity of water was 6435 ppm.

WOR was released to next location and decided to carry out Rigless activation through CTU+N2.

**Rigless Activation effort with CTU+N2:**

During CTU+N2 activation, CTU got snapped and hence WOR was re-deployed for fishing of CTU, water shut-off and re-activation.

**6th Workover operation: Rig: John-100-25 (23.01.2018 to 23.02.2018)**

**Objective:** Fishing of CTU, water shut-off

Tagged fish (coil tubing) top@ 34.38m. Static loss was observed and loss was controlled by placing pills. Extended WOC as surface cement sample not set. Retrieved 2400mt CT reel. POOH tubing. While R/I IFRHDP got held up@2657m.M/Up kelly clear from 2657 to 2660m with circulation & rotation. Carried out RPM log from 2600-2660m and CDR upto to 2621.17m. Landed T/H cone on well head kept the BB shoe@ 2600.51m. Lowered 2" HSD gun perforated interval **2624-26m**@6spf through TTP but observed no activity, CTU with N2 application was carried out twice but no activity. Rig released to next location.

**Status of the Well:** Sick well.

**Revival plan:** At this stage, gas lift completion was planned in association with IOGPT for regular deliquification.

**7th Workover operation: Rig: John-100-25 (24.02.2019 to 03.03.2019)**

**Objective:** Gas lift valve installation

**Operations:** N/Down XMT & N/Up BOP, tested BOP at 300/6000 psi & found ok. P/Out 2⅞" ABTC tubings with BB Shoe single by single completed. R/I 2⅞" EUE tubing and scrapped well up to 2630m.The well was completed with 8 GLVs, POP Shoe@ 2625.62m, Hydraulic packer @ 2597.83m. Applied air compressor through annulus for GLVs unloading. Maximum opening pressure 110 KSC and Minimum closing pressure 90 KSC. Total knock out volume 48m3 of water. Rig was release from AD# 01 to ROBO at 06.00 hrs on 03/03/2019

**Status: Well was completed on Gas lift.**

**Production History:**

The well was put on production in January 1998. The well was idle as standby well to meet the additional gas demand in future. During the month of September 2001, anomalous pressure build-up of 30 KSC was observed in outer annulus (9 5/8” and 5 ½”), which gradually increased to 150 KSC by 06.10.2002. The pressure in the annulus was subsided completely by rig-less effort and well earmarked for deployment of WOR for permanent repair of the communication point.

Accordingly 2nd WOJ was carried out during 2002-03 for repair of outer annulus with cement squeeze job above cement rise of 2275m behind 5½˝casing with expected cement rise up to 1500m to isolate the gas channel & gas bearing layer at 1590-1620m and isolation of pay sand PA-50 by bridge plug and suitable completion of the well in PA-40.

After the workover, the well was put on regular production from Aug-2003 but well could not be produced as per potential due to hydrate formation. The AOFP was evaluated as 5.07 LCMD with allowable gas rate of 1.32 LCMD. Hence it was decided to carry out workover to install bottom hole choke to prevent hydrate formation. WOJ was carried out between Apr-Jul 2005.

Well DA#1 produced with an average gas rate of 1,00,000 scmd with nil water through 6 mm bean ( Jan’98-Jan’99 and Aug’03-Jan’06). From Nov’08 onwards it flowed with an average gas rate of 45,000 scmd and negligible liquid rate through 4.0 mm bean. The well had to be frequently closed due to hydrate problem. As on September 09, 2010 the well was flowing gas @ 40,558 scmd and total liquid @ 0.3 m3/day through 4mm bean. Outer annulus (5 ½” x 9 5/8”) of the well was found charged in January 2011.

As per the recommendation of MDT 2007 on Well Head Survey, the well AD# 1, diagnosed with charged outer annulus, was taken up for Safety Work Over Job. However, at the time of Pre-work over meet on the site of AD# 1, it was confirmed that outer annulus (5½” x 95/8” section) was not charged. It was also confirmed that lower and middle master valve are holding properly. The faulty upper valve was replaced with new one. Status of the well was discussed in ORM on February 14, 2011 and decision was taken to release the rig.

After WOR, well initially produced Qg @ 40000 m3/d with negligible water. Gradually gas rate increases & well started producing Qg @ more than 200000 m3/d with 1-2 m3/d water till Dec’ 2015. From Jan’2016, Qg reduced drastically & Qw increased swiftly. Latest test data is Qg-68359 m3/d, Qw-38.58 m3/d & FTHP-68 ksc through 10 mm bean (08/08/2017). Due to planned shutdown at OTPC, all the wells of Agartala Dome GCS were kept closed from 19/08/2017 to 08/09/2017. C/O BHS study on 12.09.2017 observed SBHP-143.3 ksc at mid of the perforation and liquid level at 1194 m. Well was not be activated through nitrogen/compressor application as S/Sleeve could not be opened. Well was again tried for activation by CTU/N2 but could not get success due to presence of bottom choke. After so many attempts bottom choke could not be retrieved by Wireline. So, it is decided to deploy work over rig on priority basis for well activation.

The well could not be activated after several attempts in terms of removal of bottom-hole choke and activation through several application of CTU+N2. During CTU+N2 activation, CTU got snapped and hence WOR was re-deployed for fishing of CTU, water shut-off and re-activation but failed to activate the well.

In view of high water influx it was then decided to complete the well with gas lift and activation of well by using high pressure gas of AD#49 and same was executed during workover job in Feb’2019.

**8th Workover operation: Rig: HH-100-01 (22.09.2022 to 21.11.2022)**

**Objective**: Cement Squeeze Job for Isolation of PA-40 Pay sand (2624-2626 m) & Zone Transfer to PA-50 Pay sand.

**Brief activities carried out:**

Subdued the well with water. Observed loss while subduing, pumped viscous gel & controlled loss. Unset Hydraulic packer at 42 T & POOH. RI 2-7/8” EUE tubings upto bottom at 2629 m. **Carried out cement squeeze job. Tagged cement top at 2417 m**. Tested cement plug at 70 ksc, OK. Drilled cement and clear **bottom upto 2630 m**. R/I AMT. Milled & **cleared bottom upto 2671 m**. R/I RCJB for junk collection (Balls & POPs). POOH. Observed no junk recovered inside RCJB. R/I AMT with Junk basket. Observed held up at 72.61 m. Could not clear the held up. POOH. R/I Impression block & took impression. R/I FMT & Milled from 72.61 m to 72.70 m. Observed no progress in milling. POOH.RI Fabricated tool & tagged bottom at 2668.83 m. POOH. RI Magnet tool upto bottom. POOH. Observed metallic debris on magnet tool. RI FMT & Milled upto 2670.18 m. Further observed no progress. POOH FMT. R/I AMT & Milled upto 2671.31 m. Further observed no progress. Remarks: Lot of debris including balls and POPs are lying on bridge plug at 2675 m. Various trips with RCJB, Magnet, Annular milling tool, Flat milling tool were carried out to recover debris and mill/clear the well. However, significant progress could not be achieved in these trips. Besides this, lot of difficulties like frequent torque, stuck ups while milling were also faced. As per information from Well Services, the current rig condition of HH-100-01 is not good to tackle such case of string stuck ups.

In view of above, it was decided by MDT to release the rig and deploy suitable higher capacity rig based on its availability.

**9th Workover operation: Rig: SKP-135-V (22.04.2023 to 15.05.2023)**

**Objective:** Milling upto 2775m & Zone Transfer to PA-50 Pay sand

STHP & SCHP = 0/0 Ksc. Milling upto 2771m was carried out. Recorded CNL log in the interval 2000-2771m. On the basis of CNL log, it was decided to C/o TTP in the interval 2729-2735m @ 6 spf via 2 inch gun. Applied compressor upto 150 ksc and found no activity. Applied N2 through annulus Pumping started from CHP - 0 psi , observed return of water on surface at 2821 psi. Observed N2 pressure cut at 2821 psi. Pumping continued until N2 return confirmed in flair line. C/O BHS job, liquid level was observed below 1275m with salinity of bailer sample collected ~ 6435 ppm as Nacl. Applied N2, pumping started from CHP - 0 psi, observed return of water at 1860 psi. Observed N2 cut pressure at 2155 psi. C/o BHS job and found liquid level below 1242m with salinity of bailer sample collected ~ 12870 ppm as NaCl. Concluded Testing of PA-50 paysand (found to be water bearing).

Testing of all the objects have been concluded and since the well is inside the premises of GCS, it has been proposed by MDT to abandon the well with current available work-over rig (SKP-135-V) to avoid repeated deployment of rig in GCS area. Moreover, it may be mentioned here that due to space constraints in Agartala Dome GCS area, the current well site area has been proposed to be used for upcoming GDU at GCS. Considering the above and also the fact that there are no more zones available in the well DA#1 for further testing, it was decided by MDT to permanently abandon the Well DA#1 with the current work-over rig.

Subdue the well. N/Down XMT & N/up BOP. Carried out BOP F/Test & Pressure Test @300/5000 PSI, found ok. R/in upto bottom 2781m. CCN at bottom. P/O completely 2⅞" EUE tbg upto surface. R/In Cement diverter upto 2781m. C/O CCN for 01 cycle. Observed no static & dynamic loss. C/O abandon plug with 2.2 m3 cement slurry. After WOC released well pressure & opened BOP. P/O cement diverter with 2⅞" EUE tbg. R/In 2⅞" EUE tbg and tagged cement top @2584.34m. Tested C/Top @70 KSC. POOH completely. Carried out CBL-VDL log in the interval 2584.6 - 25m. Started R/In 2⅞" EUE tbg upto bottom. Started P/O into singles of 140 sgls. N/down 7 1/16" BOP. N/up XMT @350 KSC. TTP perforation was carried out in the interval 1300-1301m with 2" gun. Checked communication between 9-5/8" – 5-1/2" casing. Found return after pumping. N/down XMT & N/Up BOP. Adjusted tbg shoe @1318.98m. M/up cementing lines & placed mid abandoned plug with 1.8m3 of cement slurry. R/wash the string with 26m3 of water. Started R/In and tagged Cement top @1164.14m. Tested C/plug @70 KSC. API started P/O of 2⅞" EUE tbg upto surface. Conventionally perforated in the interval 195-196m @2spf. R/in 2⅞" EUE tbg upto 204m. Checked communication between 9-5/8" – 13-3/8" annulus. Established circulation immediately and C&C well thoroughly. M/A for cementing line, tested @2500 psi. C/O Top abandoned plug. Pumped C/slurry 1.1 m3. R/wash the string 2m3. After WOC, P/O completely. N/down BOP & N/up XMT. Tested XMT @350 KSC. Rig stands released on dated 15.05.2023.

**Present Status of well:** Permanently abandoned the well DA#1 (ADB)