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APPENDIX 'A' THE COMPUTER PROGRAM

```
C  REGIONAL GROUND WATER FLOW
       DIMENSION X(21),Y(16),TX(21,16),TY(21,16),H(21,16),
     &            HFIX(21,16)
     &           RCHG(21,16),HOLD(21,16),S(21,16),
     &           A(21,16),B(21,16),
     &           C(21,16),D(21,16),RS(21,16),NFLOW(4),
     &           IW(8,11),
     &           JW(8,11),QFLOW(8,11),NDAY(20,12),
     &           QFC(5,20,12),QAV(5),
     &           TDAY(15)
       OPEN(2,FILE ='DATARGF',STATUS='OLD')
       OPEN(4,FILE ='OUTRGF',STATUS='NEW')
C    TOP LEFT HAND CORNER NUMBERED (2,2)
C    N IS NO.OF MESH INTERVALS IN THE VERTICAL DIRECTION
       READ(2,*)M,N

C  INPUT  OVERALL AQUIFER PARAMETERS
       READ(2,*)TRANX,TRANY,STOR,HSTART,RECH
       READ(2,*)OFAC,ERROR
       WRITE(4,130)
130    FORMAT(4X,'XMESH',2X,'YMESH',2X,'TRANS.X',2X,'TRANS.Y',
     &    'STORAGE INITIAL H RECHARGE',3X,'FACTOR',4X,'ERROR')
       WRITE(4,140)M,N,TRANX,TRANY,STOR,HSTAT,RECH,OFAC,ERROR
140    FORMAT(1X,I7,2X,I5,6F9.4,F16.10)
C    NUMBERING OF THE BOUNDARY CONDITIONS
       MIN  =M+1
       NIN  = N+1
       MBOND = M+2
       NBOND = N+2
       MFICT = M+3
       NFICT = N+3
C  SET OVERALL VALUES IN ARRAYS

       DO 122 I = 1,MFICT
       DO 122 J = 1,NFICT
            TX(I,J)  = TRANX
            TY(I,J)  = TRANY
            S(I,J)   = STOR
            HOLD(I,J)= HSTAT
            RCHG(I,J)= RECH
            HFIX(I,J)=  999999.9
            H(I,J)   = 0.0
            RS(I,J)  = 0.0
            A(I,J)   = 0.0
            B(I,J)   = 0.0
```

```
            C(I,J)    = 0.0
            D(I,J)    = 0.0
122      CONTINUE
C  INPUT MESH POSITIONS
         READ(2,*)(X(I),I=1,MFICT)
         READ(2,*)(Y(J),J=1,NFICT)
         WRITE(4,180)(X(I),I=1,MFICT)
         WRITE(4,180)(Y(I),I=1,NFICT)
180      FORMAT(1X,12F10.2)
C  INPUT PARAMETERS TAHT ARE NON STANDARD I=1,J=1 FOR LAST LINE
200      READ(2,*)I,J,TX(I,J),TY(I,J),S(I,J),HOLD(I,J),RCHG(I,J)
         IF(I.EQ.1.AND.J.EQ.1) GO TO 220
         GO TO 200
220      CONTINUE
C
C     INPUT FIXED HEADS
230      READ(2,*)I,J,HFIXA
         IF(I.EQ.1.AND.J.EQ.1)GO TO 250
         H(I,J)    = HFIXA
         HFIX(I,J)= HFIXA
         HOLD(I,J)= HFIXA
         GO TO 230
250      CONTINUE
C
C    FACTORS FOR RIVERS WELLS ETC.  NFCS=NO.OF INPUTS AND OUTPUT
         READ(2,*)NFCS
         WRITE(4,*)'WELL RIVERS ETC'
         WRITE(4,*)'  I    J  FRACTION'
         DO 280 NF = 2,NFCS
         WRITE(4,285)NF
285      FORMAT('INPUT  GROUP ',I4)
C  NFLOW(N)=NO.OF NODES WHERE FLOW IS DISTRIBUTED
         READ(2,*)NFLOW(NF)
         NN   = NFLOW(NF)
         DO 280 L = 1,NN
C    IW() JW() ARE LOCATIONS,QFLOW IS FRACTION OF FLOW
         READ(2,*)IW(NF,L),JW(NF,L),QFLOW(NF,L)
         WRITE(4,290)IW(NF,L),JW(NF,L),QFLOW(NF,L)
290      FORMAT(2I4,F8.5)
280      CONTINUE
C
C     COEFFICIENT OF FINITE DIFERENCE EQUATIONS
         DO 500 I = 2,MBOND
         DO 500 J = 2,NBOND
         A(I,J) = 2.0*TX(I,J)/((X(I+1) X(I 1))*(X(I+1) X(I)))
         C(I,J) = 2.0*TX(I 1,J)/((X(I+1) X(I 1))*(X(I+1) X(I)))
         B(I,J) = 2.0*TY(I,J 1)/((Y(J+1) Y(J 1))*(Y(J) Y(J 1)))
         D(I,J) = 2.0*TY(I,J)/((Y(J+1) Y(J 1))*(Y(J+1) Y(J)))
500      CONTINUE
C
C  INPUT FLOW BOUNDARIES
         DO 510 INODE = 1,1000
         READ(2,*)I,J,AA,BB,CC,DD,SS
         IF ((I.EQ.1).AND.J.EQ.1)GO TO 540
         A(I,J)   = AA*A(I,J)
         B(I,J)   = BB*B(I,J)
```

```
        C(I,J)   = CC*C(I,J)
        D(I,J)   = DD*D(I,J)
C     99.9 OUTSIDE NO FLOW BOUNDARY
        IF(AA.LE.0.000001)HFIX(I+1,J) =  99.9
        IF(BB.LE.0.000001)HFIX(I,J-1) =  99.9
        IF(CC.LE.0.000001)HFIX(I-1,J) =  99.9
        IF(DD.LE.0.000001)HFIX(I,J+1) =  99.9
        IF(AA.LE.0.000001)C(I+1,J) = 0.0
        IF(BB.LE.0.000001)D(I,J-1) = 0.0
        IF(CC.LE.0.000001)A(I-1,J) = 0.0
        IF(DD.LE.0.000001)B(I,J+1) = 0.0
        S(I,J)   = SS*S(I,J)
510     CONTINUE
C
C    SET INITIAL HEADS
540     DO 530 I = 1,MFICT
        DO 530 I = 1,NFICT
        H(I,J)    = HOLD(I,J)
530     IF(HFIX(I,J).EQ. 99.9)H(I,J) = 99.9
C
C  PRINT OUT INITIAL CONDITIONS
        CALL PRIN(TX,1,2,MBOND,2,NBOND,TIME)
        CALL PRIN(TY,2,2,MBOND,2,NBOND,TIME)
        CALL PRIN(RCHG,5,2,MBOND,2,NBOND,TIME)
        CALL PRIN(S,3,2,MBOND,2,NBOND,TIME)
        CALL PRIN(HFIX,6,1,MFICT,1,NFICT,TIME)
C
C    NBLOCK IS NO. OF YEARLY  BLOCK OF DATA
        READ(2,*)NBLOCK
        DO 580 IBLOCK = 1,NBLOCK
        WRITE(4,560)IBLOCK
560     FORMAT(10X,'BLOCK NO. = ',I3)
        DO 580 IMONTH = 1,12
        DO 765 NF = 1,NF
765     QFC(NF,IBLOCK, IMONTH) = 0.0
C  NDAY() = NO OF DAYS IN MONTH,QFC()= FLOWS IN ML/D
        READ(2,*)NDAY(IBLOCK,IMONTH),
     &          (QFC(NF,IBLOCK,IMONTH),NF=1,NFCS)
        WRITE(4,570)NDAY(IBLOCK,IMONTH),
     &         (QFC(NF,IBLOCK,IMONTH),NF=1,NFCS)
570     FORMAT(I5,10F7.1)
C
C    CONVERT INPUT VALUES OF ML/D INTO M**3/D
        DO 580  NF = 1,NFCS
580     QFC(NF,IBLOCK ,IMONTH) = QFC(NF,IBLOCK,IMONTH)*1000.0
C
C    CALCULATE AVE. OF FIRST BLOCK FOR STEADY STATE
        DO 590 NF = 1,NFCS
590     QAV(NF) = 0.0
        DO 600 NF = 1,NFCS
        DO 600 IMONTH = 1,12
600     QAV(NF) = QFC(NF,1,IMONTH) + QAV(NF)
        DO 610 NF = 1,NFCS
610     QAV(NF) = QAV(NF)/12.0
C
C  SET IFIRST NEGATIVE FOR INITIAL STEADY STATE
```

```
      IFIRST =  100
C
C  INPUT OF TIMES IN DAYS WHEN CALCULATION IS PERFORMED
      READ(2,*)KDAY
      DO 620 K = 1,KDAY
620   READ(2,*)TDAY(K)
9000  WRITE(4,*)
C
C  TIME INCREASED , CHANGE IN YEAR
      DO 700 IYEAR = 1,100
      IF(IFIRST.LT.0)GO TO 755
      READ(2,*)IBLOCK
C  IF IBLOCK NEGATIVE CALCULATION STOPS
      IF(IBLOCK.LT.0)GO TO 8000
      WRITE(4,720)IBLOCK,IYEAR
720   FORMAT(10X,'BLOCK NO. = ',I3,'YEAR NO.= ',I3)
C
C  CHANGE IN MONTH
755   DO 730 IMONTH = 1,12
      IF(IFIRST.LT.0)GO TO 750
C
C  COMBINE ALL FLOWS PER NODE INRS(I,J),UNITS M**3/D
C  SPECIAL CALCULATION FOR INITIAL HEADS
      WRITE(4,740)IMONTH,NDAY(IBLOCK,IMONTH),
     *(QPC(NF,IBLOCK,IMONTH),NF = 1,NPCS)
740   FORMAT(1X,'MONTH= ',I4,'NO.OF DAYS= ',I4,
     *       'FLOWS= ',5F12.1)
750   CONTINUE
      DO 800 I = 2,MBOND
      DO 800 J = 2,NBOND
      IF(IFIRST.LT.0)GO TO 810
      RS(I,J) = RCHG(I,J)*QPC(1,IBLOCK,IMONTH)
      GO TO 800
810   RS(I,J) = RCHG(I,J)*QAV(1)
800   CONTINUE
      DO 820 N = 2,NPCS
      NN = NFLOW(N)
      DO 820 I1 = 1,NN
      I = IW(N,I1)
      J = JW(N,I1)
      IF(IFIRST.LT.0)GO TO 830
      RS(I,J) = RS(I,J) + (QPC(N,IBLOCK,IMONTH)*QFLOW(N,I1))
      GO TO 820
830   RS(I,J) = RS(I,J) + QAV(N)*QFLOW(N,I1)
820   CONTINUE
C
C   DIVIDE NODAL FLOW BY AREA TO GIVE  M/D
      DO 840 I = 2,MBOND
      DO 840 J = 2,NBOND
840   RS(I,J) = 4.0*RS(I,J)/((X(I+1) X(I 1))*(Y(J+1) Y(J 1)))
C
C   INCREASE TIME ; CALCULATE DELT
      LDAY = KDAY+1
      DO 900 IDAY=1,LDAY
      IF(IDAY.NE.1)GO TO 910
      DELT = TDAY(1)
```

```
      DAYT=  TDAY(1)
      GO TO 930
910   IF(IDAY.EQ.LDAY)GO TO 920
      DELT = TDAY(IDAY) TDAY(IDAY 1)
      DAYT = TDAY(IDAY)
      GO TO 930
920   DAYT = FLOAT(NDAY(IBLOCK,IMONTH))
      DELT = DAYT   TDAY(KDAY)
930   IF(DELT.LE.0.001)GO TO 900
      SFAC = 1.0
C
C  START OF S.O.R. CACULATION
C  MULTIPLYING FACTOR FOR STORAGE
      IF(IFIRST.LT.0)SFAC =0.00000001
C
C MULTIPLIER AND PREVIOUS TIME STEP FACTORS;USE ARRAYS TX TY
      RDELT =1.0/DELT
      DO 940 I = 2,MBOND
      DO 940 J = 2,NBOND
      HOLD(I,J) = H(I,J)
      TX(I,J)= (SFAC*S(I,J)*RDELT+A(I,J)+B(I,J)+C(I,J)+D(I,J))
940   TY(I,J)= SFAC*S(I,J)*H(I,J)*RDELT
C
C  ITERATION LOOP ; MAX.NO.OF ITERATION 300
      DO 950 ICYCLE=1,300
      IND = 0
      DO 960 I = 2,MBOND
      DO 960 J = 2,NBOND
      HOLD(I,J) = H(I,J)
      IF(HFIX(I,J).GE.100000.0) GOTO 970
      AB=A(I,J)*H(I+1,J)+B(I,J)*H(I,J-1)+C(I,J)*H(I+1,J)
     *  +D(I,J)*H(I,J+1)+TY(I,J)+RS(I,J)
      IF(ABS(AB-TX(I,J)*HOLD(I,J)).LT.ERROR)GO TO 980
      IND = 100
980   H(I,J) = (1.0-OFAC)*HOLD(I,J)+OFAC*AB/TX(I,J)
      GO TO 960
970   H(I,J) = HFIX(I,J)
960   CONTINUE
      IF(IFIRST.LT.0) GO TO 950
      IF(ICYCLE.LT.2)GO TO  950
      IF(IND.EQ.0) GO TO 990
950   CONTINUE
      IF(IFIRST.GT.0) GO TO 1000
C
C  OUTPUT SECTION FOR INITIAL STEADY HEADS
      IFIRST = 100
      WRITE(4,1010)
1010  FORMAT(1X,'INITIAL STEADY STATE HEADS')
      CALL PRIN(H,7,2,MBOND,2,NBOND,TIME)
      GO TO 9000

1000  WRITE(4,*)'CONVERGENCE NOT ACHIEVED IN 300 ITERATIONS'
C    END OF SOR ROUTINE
C
990   CONTINUE
C  SECTION FOR CALCULATING FLOW INSERTED HERE
```

```
        FLOW = 0.0
C
        WRITE(4,1040)ICYCLE,DAYT,H(9,3),H(9,4),H(9,5),H(9,7),
     *               H(9,9),H(9,11),H(9,13),H(9,15),H(2,7),H(5,7)
     *               H(7,7),H(11,7)
1040    FORMAT(1X,I5,F10.2,12F9.3)
900     CONTINUE
730     WRITE(4,*)
C
C  FULL PRINT OUT AT END OF EACH YEAR
        CALL PRIN(H,7,2,MBOND,2,NBOND,TIME)

700     WRITE(4,*)
8000    STOP
        END


        SUBROUTINE PRIN(FUNC,NO,IBEG,IEND,JBEG,JEND,TIME)
        DIMENSION FUNC(21,16)
100     FORMAT(10X,'TRANSMISSIVITY IN X DIRECTION')
101     FORMAT(10X,'TRANSMISSIVITY IN Y DIRECTION')
102     FORMAT(10X,'STORAGE FACTORS')
103     FORMAT(10X,'INITIAL VALUES OF HEADS')
104     FORMAT(10X,'RECHARGE VALUES')
105     FORMAT(10X,'FIXED HEADS')
106     FORMAT(10X,'VALUES OF HEADS AT',F6.2,' DAYS')
107     FORMAT(1X,1P14E9.2)
108     FORMAT(5(/))
110     FORMAT(1X,14(I4,4X))
111     FORMAT(1X,I3,1X,19F6.2)
112     FORMAT(3X,19I6)
115     FORMAT(1X,' 1.00E+06 SIGNIFIES FREE HEAD',5X,' 9.99E+1
     *                  IS NODE OUTSIDE BOUNDARY')
C
C

        IF(NO.EQ.7)GO TO 6
        IF(NO.NE.1)GO TO 1
        WRITE(4,100)
        GO TO 7
1       IF(NO.NE.2)GO TO 2
        WRITE(4,101)
        GO TO 7
2       IF(NO.NE.3)GO TO 3
        WRITE(4,102)
        GO TO 7
3       IF(NO.NE.4)GO TO 4
        WRITE(4,103)
        GO TO 7
4       IF(NO.NE.5) GO TO 5
        WRITE(4,104)
        GO TO 7
5       IF(NO.NE.6)GO TO 6
        WRITE(4,105)
        WRITE(4,115)
        GO TO 7
6       WRITE(4,106)TIME
```

```
      WRITE(4,112)(I,I=IBEG,IEND)
      DO 11 J = JBEG,JEND
11    WRITE(4,111)J,(FUNC(I,J),I=IBEG,IEND)
      GO TO 10
7     WRITE(4,110)(I,I=IBEG,IEND)
      DO 8 J=JBEG,JEND
8     WRITE(4,107)(FUNC(I,J),I=IBEG,IEND)
10    WRITE(4,108)
      RETURN
      END
```

Appendix B: Radial flow model to analyse pump test at V1 site.

A computer model based on finite difference approximation of following equation was used to analuse the pump test results for the borehole V1.

$$\frac{\partial}{\partial r}\left[m\, k_r \frac{\partial s}{\partial r}\right] + \frac{m}{r}\left[k_r \frac{\partial s}{\partial r}\right] = S \frac{\partial s}{\partial t} + q \qquad \text{B.1}$$

where,

s = drawdown in the aquifer at r radius from the well.

m = saturated thickness of the aquifer

k_r = radial permeability

S = storage coefficient

q = vertical flow

Following data were used in computations:

Radius of the well = 100 mm

Pumping rate = 2304 m^3/d

Number of computations were made with following sets of data.

Run no.	Radial permeability m/d	Storage coefficient	Radius of influence m	Boundary condition	Leakage factor m
1	19.0	0.001	1000	free	No leakage
2	19.0	0.00008	1000	free	no leakage
3	38.0	0.00008	1000	free	no leakage
4	19.0	0.00008	300	fixed head	1000
5	19.0	0.0008	300	fixed head	6500

[illegible] WELL MONITORING NETWORK AT VANATHAVILLU : WATER LEVELS, [illegible] AND TEMPERATURE DATA, 1979 – 1981. PART 1 REDUCED WATER LEVELS

Well No.	Elevation m.s.l. (m)	1979 Aug.	Sept.	Oct.	Nov.	Dec.	1980 Jan.	FEb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	1981 Jan.	Feb.	March	April	May	June
P2A	30.028 TWP	–	–	–	–	–	–	–	–	15.27	15.12	13.94	13.73	14.[illegible]	14.25	14.[illegible]	14.23	14.00	14.72	14.67	–	–	14.27	14.22
P7	28.650 TWP	–	–	–	–	–	[illegible]	–	–	16.03	15.[illegible]	15.65	–	15.31	14.58	14.[illegible]	14.49	14.56	14.9[illegible]	14.88	–	–	14.53	14.52
P5	41.775 TWP	–	–	–	–	–	–	–	–	14.90	14.94	14.94	14.85	14.75	14.64	14.62	14.52	14.76	14.87	14.92	–	–	14.63	14.73
P8	3.492 TWP	–	–	–	–	0.41	-0.07	-0.10	-0.09	0.01	0.07	0.19	0.24	–	0.49	0.44	–	0.49	0.44	–	–	–	–	–
P9A	29.148 TWP	–	–	–	–	–	–	–	–	12.56	12.59	12.55	12.55	11.64	11.76	11.74	12.04	12.27	12.31	11.75	–	–	11.65	11.42
P13	19.53 TWP	–	–	–	–	–	8.58	8.40	8.47	8.49	8.55	8.55	8.45	–	–	–	–	–	–	7.53	–	–	pump fitted	
W2	46.0 TCL	12.32	12.25	12.13	12.27	12.66	13.20	13.56	13.73	13.78	13.78	13.70	13.46	13.30	13.22	13.17	13.08	13.29	13.32	13.33	13.40	13.36	13.28	13.11
W4A	34.975 TWP	–	–	–	–	–	–	–	–	15.15	14.66	14.80	14.60	14.07	Well	blocked								
W4B	35.665 TWP	–	–	–	–	–	–	–	–	15.15	14.77	14.81	15.61	14.41	14.16	14.13	14.16	14.46	14.58	14.58	–	–	14.26	14.14
W3-1	44.881 TCL	–	–	–	–	–	–	–	–	–	–	–	–	–	–	8.90	8.90	8,87	8.94	8.83	–	–	8.70	8.59
W3-2	42.567 TWP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	8.62	–	–	–	–
C1	58.01 TCL	–	–	–	–	15.65	16.33	16.60	16.60	16.48	16.28	16.11	15.92	15.72	–	15.43	15.4[illegible]	15.25	15.88	–	–	–	–	–
W8	28.141 TWP	–	–	–	–	–	15.59	15.33	15.35	15.23	15.07	14.90	14.68	14.47	14.26	14.22	14.22	14.49	14.66	14.64	–	–	14.33	14.20
W1-1	36.416 TWP	–	–	–	–	–	–	–	–	–	–	17.14	16.90	–	16.50	16.44	–	16.82	–	–	–	–	–	–
W1-3	36.581 TWP	–	–	–	–	–	–	–	–	–	–	17.33	17.10	16.95	16.69	16.63	16.66	17.01	17.13	17.13	–	–	16.76	16.62
P7A	34.705 TCL	12.56	12.51	12.[illegible]9	12.31	–	–	13.49	13.75	13.83	13.92	13.86	13.81	13.77	13.50	13.49	13.49	13.60	13.67	13.68	–	–	–	–
P7[illegible]	34.512 TWP	–	–	–	–	–	–	13.40	13.58	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
W2-1	28.288 TWP	–	–	–	–	–	–	–	–	–	–	–	–	8.33	7.94	7.88	7.82	7.34	7.84	7.75	–	–	–	–
TW3	35.556 TCL	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	8.25	9.02	8.76	–	–	9.14	9.06
DW3	31.348 TWP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	9.10	–	–	–	–	–
V3-3	42.907	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	38.35	–	–	–	–
V1-2	36.373 TCL	–	–	–	–	–	–	–	–	–	–	33.81	33.00	31.85	30.23	31.17	32.47	33.87	33.43	33.03	–	–	30.95	30.84
DW51	29.413 TPW	24.24	27.39	26.21	28.61	28.90	28.47	28.26	27.90	27.98	28.48	27.47	26.96	27.36	27.31	27.51	27.36	27.68	27.50	26.52	–	–	dry	25.15
DW52	20.741 TPW	7.90	7.44	7.24	7.33	9.79	10.60	11.34	10.81	10.06	9.09	8.70	8.35	8.05	7.50	7.33	7.42	7.69	7.76	7.50	–	–	6.95	6.78
DW53	5.446 TPW	4.44	4.48	4.60	4.74	4.70	4.73	4.62	4.39	4.68	4.69	4.60	4.61	4.52	4.68	4.76	4.76	4.76	4.77	4.54	–	–	4.71	4.60
DW54	2.855 TPW	-.03	0.31	0.71	1.45	1.60	1.49	1.17	0.91	0.63	0.53	0.38	0.28	0.08	0.29	0.91	0.86	1.16	0.93	0.72	–	–	0.56	0.58
DW55	51.844 TPW	42.59	42.46	42.24	42.69	44.48	44.82	44.46	44.08	43.78	43.45	43.21	42.76	42.50	41.94	42.10	41.99	42.27	42.38	42.31	–	–	41.60	41.49
DW56	36.903 TPW	29.45	36.54	30.55	33.42	33.27	33.31	32.84	31.84	31.24	30.58	30.25	30.23	dry	dry	31.13	31.06	31.04	31.05	30.13	–	–	dry	29.62
DW57	50.556 TPW	–	39.38	38.99	39.73	40.22	41.01	41.15	40.89	40.53	40.14	40.87	39.49	39.06	37.80	37.71	37.71	38.85	38.54	38.47	–	–	dry	37.79
DW58	37.762 TPW	–	28.91	28.94	34.49	34.22	33.38	32.65	33.04	31.52	30.75	30.28	29.65	29.41	28.84	31.02	31.54	32.70	31.97	31.06	–	–	28.88	29.01
DW59	38.941 TPW	–	29.23	28.62	29.04	30.54	31.94	31.97	31.55	31.29	30.91	30.40	29.69	28.54	27.44	28.07	28.35	28.67	29.05	28.96	–	–	dry	dry
DW61	37.504 TPW	–	–	–	–	–	–	–	–	32.04	34.27	34.03	33.80	33.83	34.14	34.79	34.72	34.52	34.26	33.84	–	–	34.08	34.10
DW64	59.227 TPW	–	–	–	–	–	–	–	–	–	–	–	47.89	47.44	–	46.61	46.79	46.82	46.73	46.64	–	–	45.33	46.41
DW65	65.759 TPW	–	–	–	–	–	–	–	–	–	–	–	44.61	44.56	–	–	43.96	44.03	43.83	43.86	–	–	43.62	43.54
DW66	15.718 TPW	–	–	–	–	–	–	–	–	–	–	–	10.38	8.99	–	–	12.20	13.11	12.60	12.51	–	–	12.22	12.57
DW67	32.216 TPW	–	–	–	–	–	–	–	–	–	–	–	26.92	25.42	dry	26.84	27.17	28.42	28.12	27.67	–	–	26.52	26.57
DW68	31.091 TPW	–	–	–	–	–	–	–	–	–	–	–	24.09	dry	dry	26.13	24.65	25.81	25.90	25.48	–	–	24.39	24.39
DW69	30.036 TPW	–	–	–	–	–	–	–	–	–	–	–	26.30	–	–	24.66	25.18	24.72	26.56	26.81	–	–	dry	dry

TWP - Top of Well Protector
TCL - Top of Casing Lip
TPW - Top of Parapet Wall

NOTE: DW Wells are hand-dug open wells, all other wells are tubewells.