

# *Appendices*

## **6.1      Appendix A: Wells Lithological Description**

### 6.1.1 Well 01

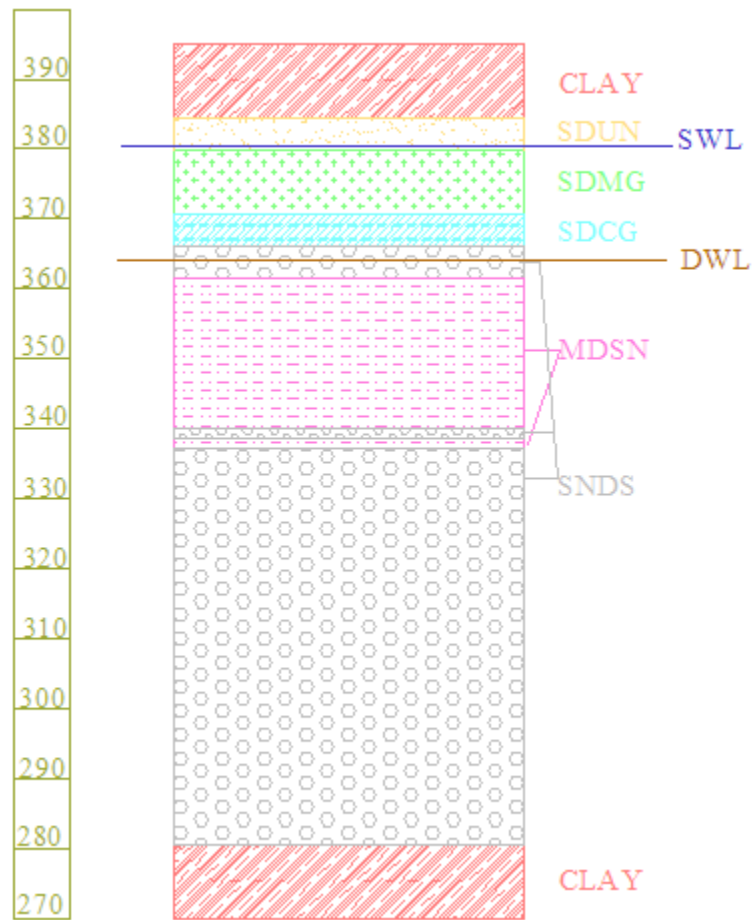


Fig (A.1) showing the lithology of well 01

Table (A.1) showing the lithology information of well 01

<b>Lithological Description of Well 01</b>		
<b>Top</b>	<b>Bottom</b>	<b>Major noun</b>
0	1.5	CLAY
1.5	9.1	CLAY
9.1	10.7	CLAY
10.7	15.2	SDUN
15.2	18.3	SDMG
18.3	21.3	SDMG
21.3	24.4	SDMG
24.4	28.9	SDCG
28.9	33.5	SNDS
33.5	41.3	MDSN
41.3	54.9	MDSN
54.9	56.4	SNDS
56.4	57.9	MDSN
57.9	64	SNDS
64	67.1	SNDS
67.1	86.9	SNDS
86.9	92.9	SNDS
92.9	102.1	SNDS
102.1	105.2	SNDS
105.2	114.3	SNDS
114.3	125	CLAY

<b>Lithological Description of Well 01</b>		
<b>Top</b>	<b>Bottom</b>	<b>Major noun</b>
0	1.5	CLAY
1.5	9.1	CLAY
9.1	10.7	CLAY
10.7	15.2	SDUN
15.2	18.3	SDMG
18.3	21.3	SDMG
21.3	24.4	SDMG
24.4	28.9	SDCG
28.9	33.5	SNDS
33.5	41.3	MDSN
41.3	54.9	MDSN
54.9	56.4	SNDS
56.4	57.9	MDSN
57.9	64	SNDS
64	67.1	SNDS
67.1	86.9	SNDS
86.9	92.9	SNDS
92.9	102.1	SNDS
102.1	105.2	SNDS
105.2	114.3	SNDS
114.3	125	CLAY

6.1.2 Well 02

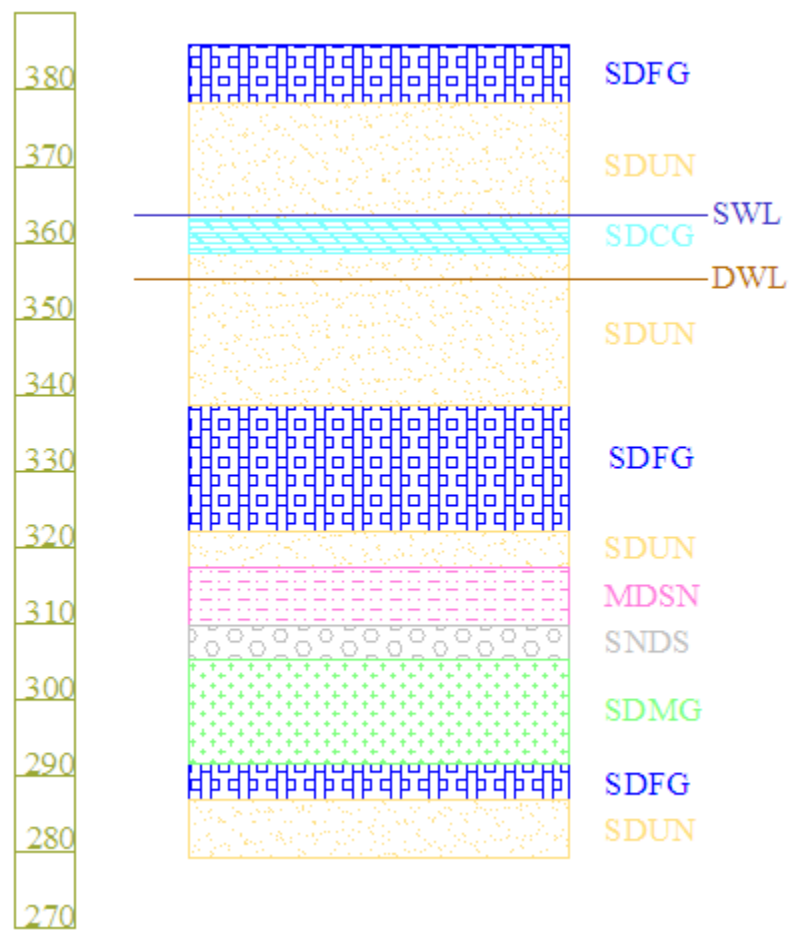


Fig (A.2) showing the lithology of well 02

Table (A.2) showing the lithology information of well 02

<b>Lithological Description of Well 02</b>			
<b>Top</b>	<b>Bottom</b>	<b>Major noun</b>	<b>Full description of the well</b>
0	7.6	SDFG	SUPERFICIAL DEPOSIT, SAND, FINE GRAINED
7.6	21.3	SDUN	SAND, CLAYEY, GREY IN COLOR
21.3	22.9	SDUN	SAND, GRAVELLY, WITH CARBONATES
22.9	27.4	SDCG	SAND, COARSE GRAINED, TO GRAVELLY
27.4	47.3	SDUN	SAND, GRAVELLY, ANGULAR GRAINED WITH CARBONATES
47.3	62.5	SDFG	SAND, FINE GRAINED, LIGHT IN COLOR
62.5	64	SDFG	SAND, FINE GRAINED, BROWN IN COLOR DUE TO IRON CONTENT
64	68.6	SDUN	SAND, CLAYEY, GREY IN COLOR
68.6	76.2	MDSN	MUDSTONE, BROWN IN COLOR
76.2	80.8	SNDS	SANDSTONE, FINE TO MEDIUM GRAINED, LIGHT IN COLOR
80.8	94.5	SDMG	SAND, COARSE TO MEDIUM GRAINED LIGHT IN COLOR
94.5	99.1	SDFG	SAND, FINE GRAINED, LIGHT IN COLOR
99.1	106.7	SDUN	SAND, GRAVELLY, GREY IN COLOR

6.1.3 Well 03

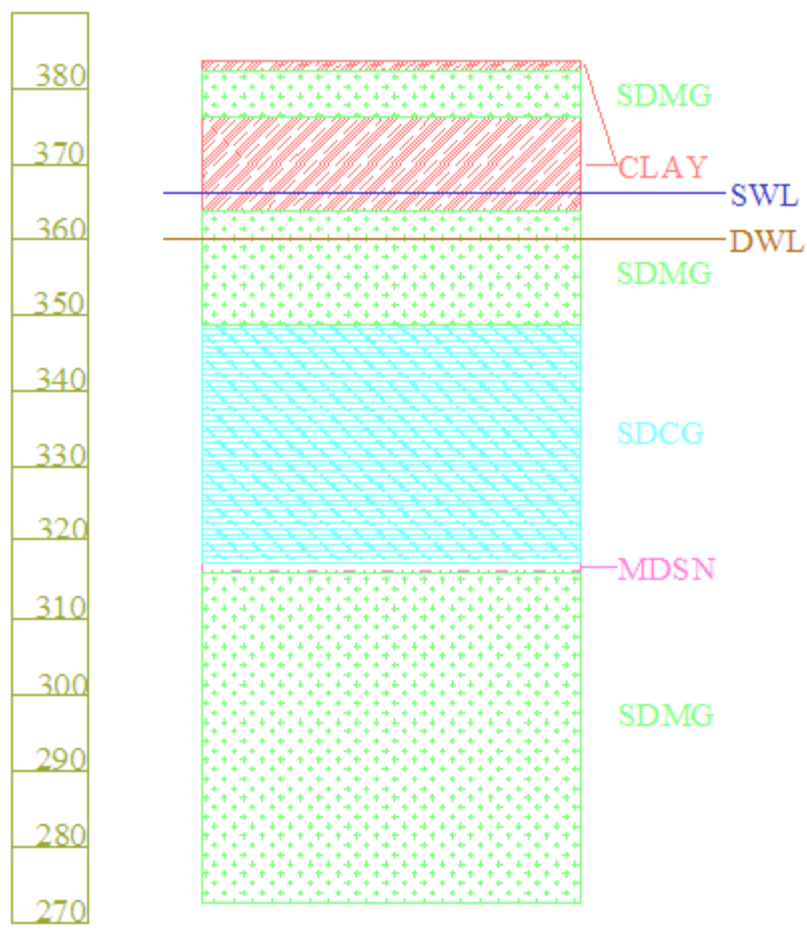


Fig (A.3) showing the lithology of well 03

Table (A.3) showing the lithology information of well 03

<b>Lithological Description of Well 03</b>			
<b>Top</b>	<b>Bottom</b>	<b>Major noun</b>	<b>Full description of the well</b>
0	1.5	CLAY	SANDY CLAY DARK , STICKY , WITH KANKAR
1.5	7.6	SDMG	SLAYEY SAND GREY , WITH KANKAR , LOOSE
7.6	19.8	CLAY	GREY CLAY MODERATLY HARD WITH KANKER
19.8	35	SDMG	MEDIUM SAND GREY , LOOSE AND FRIABLE
35	66.4	SDCG	COARSE SAND LOOSE , FRIABLE , WHITE INTERCALATED WITH MUDSTONE
66.4	67.6	MDSN	MUDSTONE GREY COLOUR , MODERATELY HARD
67.6	79.2	SDMG	INTERCALATION OF MEDIUM SAND , WHITE COLOUR
79.2	111.2	SDMG	SANDSTONE MEDIUM LOOSE , FRIABLE



### 6.1.4 Well 04

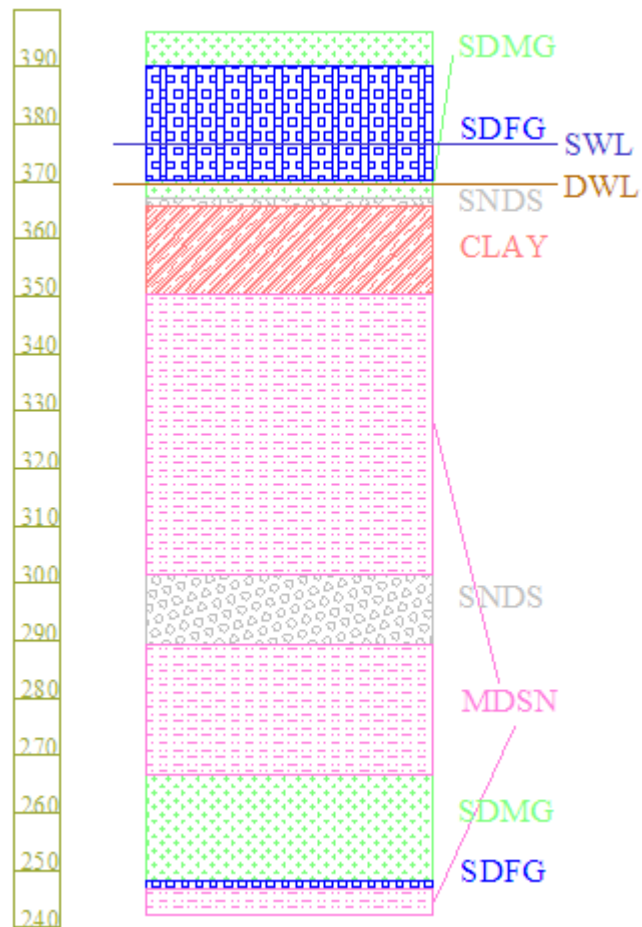


Fig (A.4) showing the lithology of well 04

Table (A.4) showing the lithology information of well 04

<b>Lithological Description of Well 04</b>			
<b>Top</b>	<b>Bottom</b>	<b>Major noun</b>	<b>Full description of the well</b>
0	1.5	SDMG	CLAYEY SAND MEDIUM GRAINED, BROWN COLOR
1.5	6	SDMG	MEDIUM SAND, BROWN COLOR, SUBROUNDED, RICH OF KANKER NODULE
6	25.9	SDFG	FINE SAND, LOOSE, ROUNDED, WITH AMOUNT OF KANKER
25.9	28.9	SDMG	FINE SAND TO MEDIUM, WHITE, ROUNDED, LOOSE, FRIABLE
28.9	30.4	SNDS	SAND, BROWN FRIABLE, SOFT
30.4	45.7	CLAY	YELLOW CLAY
45.7	80.7	MDSN	MUDSTONE, WHITE COLOR
80.7	94.5	MDSN	RDE MUDSTONE STICKY
94.5	106.7	SNDS	INTERCALATION OF SANDSTONE AND MUDSTONE
106.7	129.5	MDSN	PALE RED MUDSTONE, HARD, COMPACT
129.5	147.8	SDMG	MEDUM SAND, BROWN COLOR, LOOSE
147.8	149.3	SDFG	FERRUGINOUS SANDSTINE, RDE COLOR, HARD, COMOACT
149.3	153.9	MDSN	INTERCALATION OF IRON STNOE AND MUDSTONE

6.1.5 Well 05

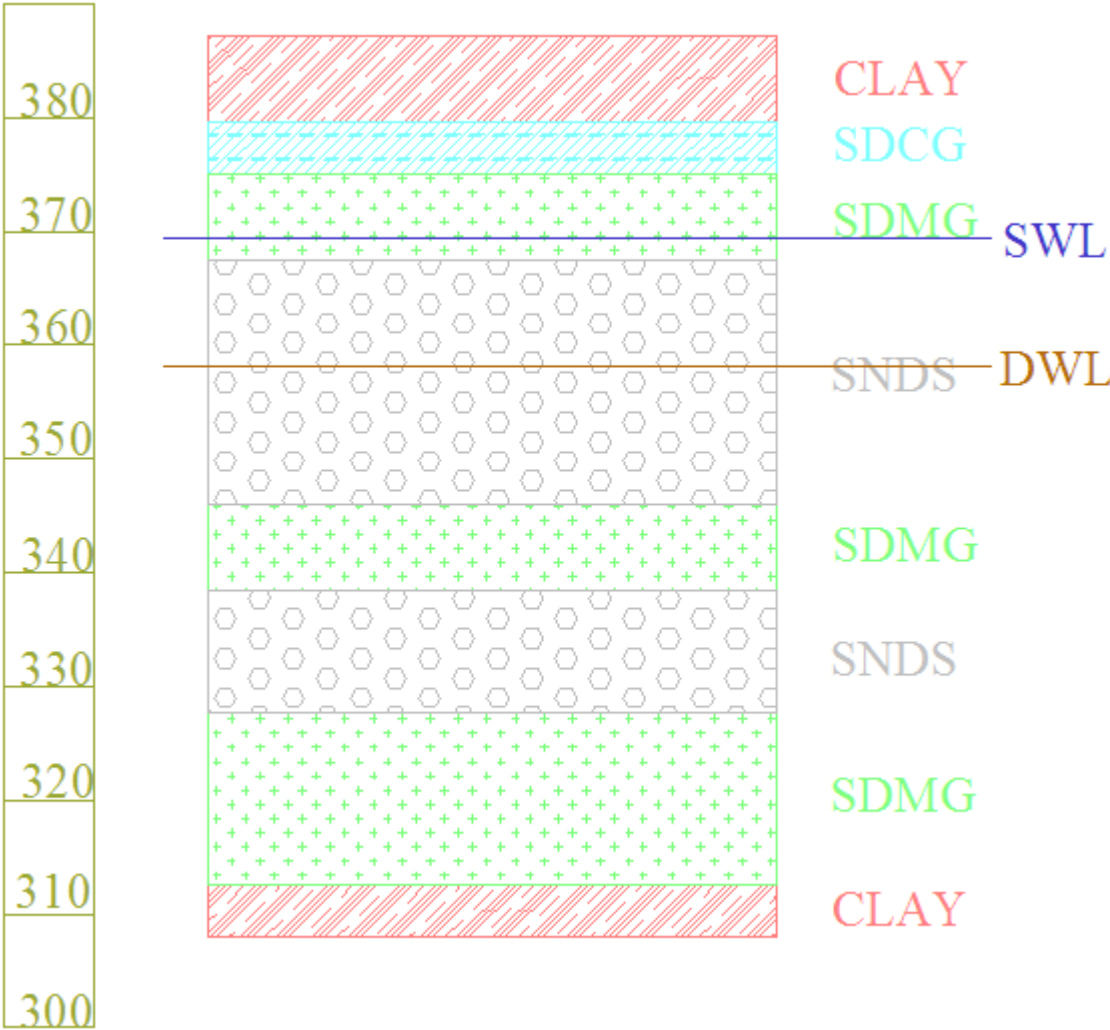


Fig (A.5) showing the lithology of well 05

Table (A.5) showing the lithology information of well 05

<b>Lithological Description of Well 05</b>			
<b>Top</b>	<b>Bottom</b>	<b>Major noun</b>	<b>Full description of the well</b>
0	1.5	CLAY	STICKY WITH KANKER NODELES AND IRON CONCENTRATION
1.5	7.6	CLAY	STICKY WITH KANKER NODELES AND IRON CONCENTRATION
7.6	12.2	SDCG	LOSE AND FRIABLE
12.2	19.8	SDMG	LOASE AND FRIABLE INTERCATED WITH SHEETED CLAYE
19.8	41.2	SNDS	INTERCALATION WITH KANKER, HARD MATERIALS
41.2	48.8	SDMG	LOASE AND FRIABLE WITH CLAYES AND MUDSTONE
48.8	59.5	SNDS	INTERCALATION WITH CLAYES AND MUDSTONE
59.5	74.7	SDMG	LOOSE AND FRIABLE
74.7	79.3	CLAY	STICKY INTERCALATED WITH SANDSTONE AS LENSES

6.1.6 Well 06

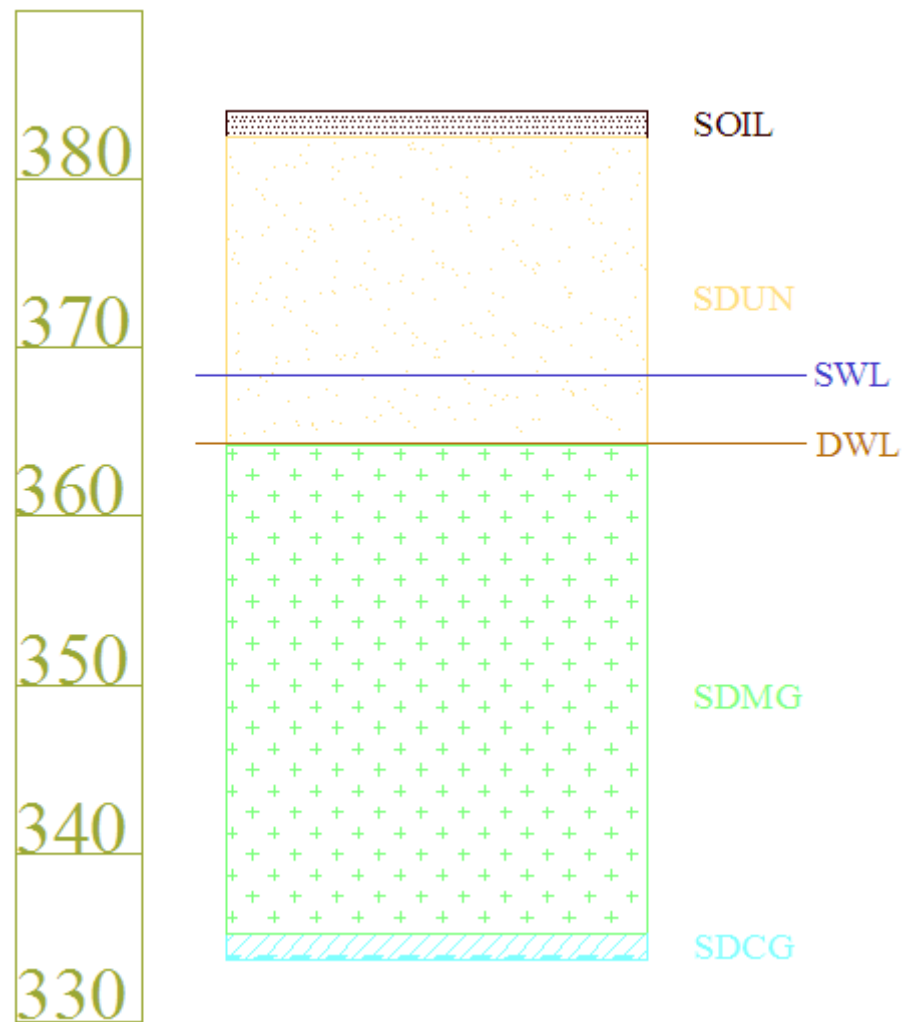


Fig (A.6) showing the lithology of well 06

Table (A.6) showing the lithology information of well 06

<b>Lithological Description of Well 06</b>			
<b>Top</b>	<b>Bottom</b>	<b>Major noun</b>	<b>Full description of the well</b>
0	1.5	SOIL	BLACK COOTON SOIL CLAY
1.5	19.8	SDUN	SAND, CLAYEY, DIRTY, YELLOW IN COLOR
19.8	39.6	SDMG	SAND, MEDIUM GRAINED, WHITISH YELLOW IN COLOR, WELL SORTED FORMED, FRIABLE
39.6	48.8	SDMG	SAND, MEDIUM GRAINED, GREYISH IN COLOR, SUBANGULAR, LOOSE, SORTED, FRIABLE, UNIFORMED, PORUS, PERMEABLE
48.8	50.3	SDCG	SAND, COARSE GRAINED, SUBANGULAR, YELLOWISH IN COLOR, CLAYEY, COARSENESS INCREASES WITH DEPTH

6.1.7 Well 07

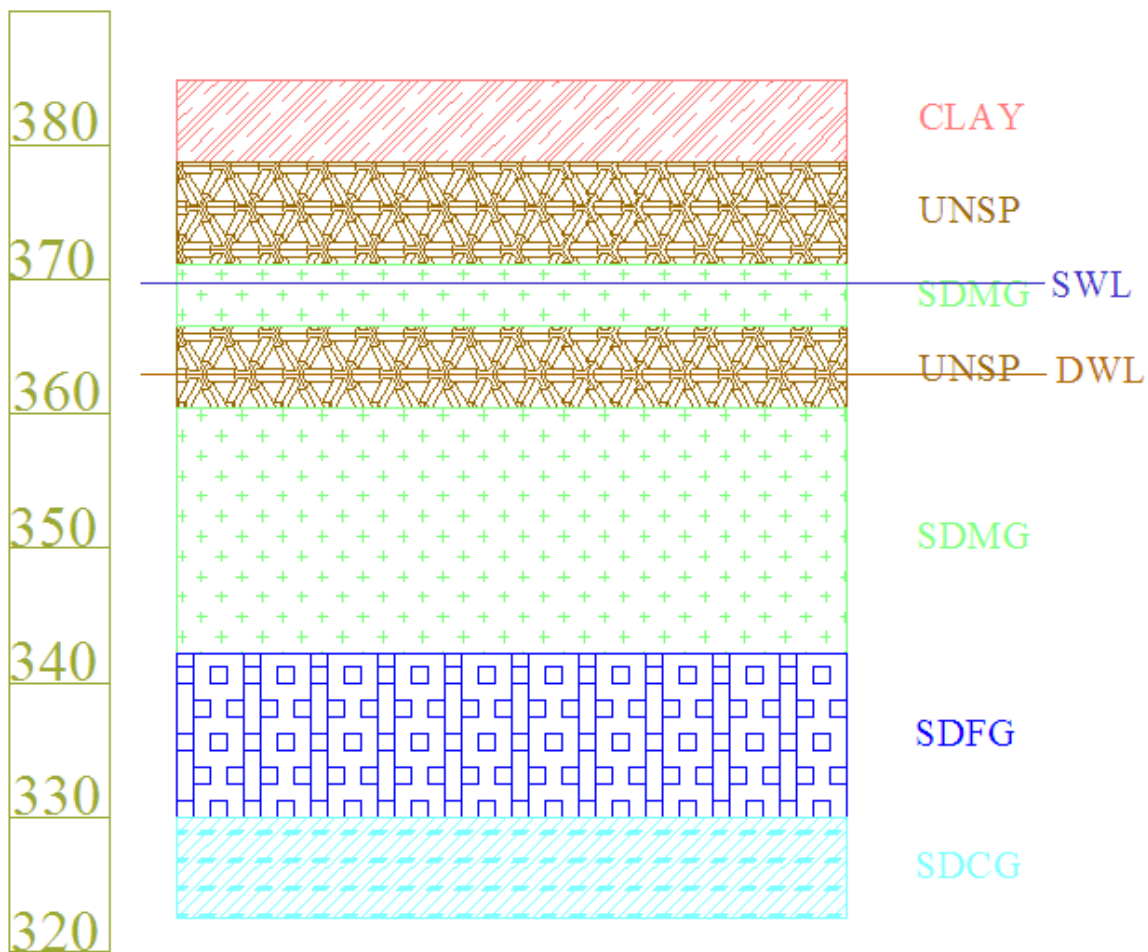


Fig (A.7) showing the lithology of well 07

Table (A.7) showing the lithology information of well 07

<b>Lithological Description of Well 07</b>			
<b>Top</b>	<b>Bottom</b>	<b>Major noun</b>	<b>Full description of the well</b>
0	6.1	CLAY	CLAY, BLACKISH IN COLOUR
6.1	13.7	UNSP	KANKER, SANDY, EARTHY DIRTY COLOR
13.7	18.3	SDMG	SAND, FINE TO MEDIUM GRAINED, YELLOW, LOOSE
18.3	24.4	UNSP	KANKER, SANDY, FINE GRAINED, DEARTY GREYISH IN COLOR
24.4	42.7	SDMG	SAND, MEDIUM GRAINED, YELLOW IN COLOR, SORTED, FRIABLE, LOOSE
42.7	54.9	SDFG	SAND, FINE GRAINED, GREYISH IN COLOR, LOOSE, FRIABLE, SUBANG, POROUS, PERMEABLE
54.9	62.5	SDCG	SAND, COARSE GRAINED, CLAYEY, THE CLAY % AGE INCREASES WITH DEPTH



### 6.1.8 Well 08

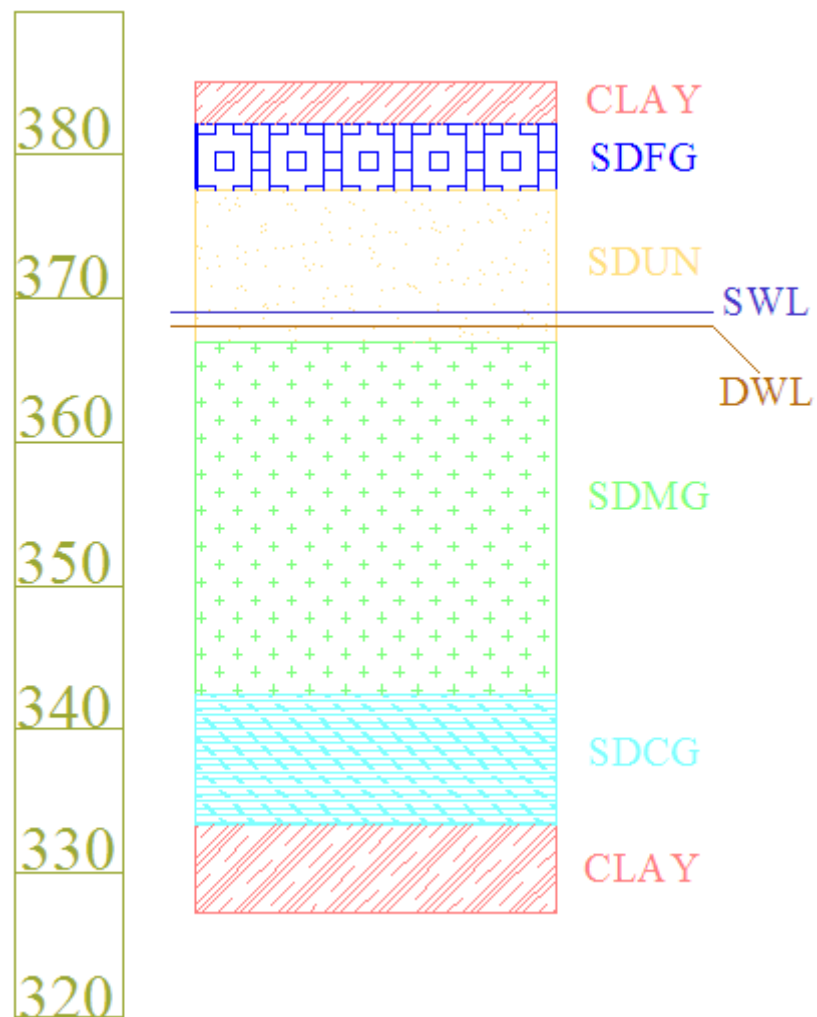


Fig (A.8) showing the lithology of well 08

Table (A.8) showing the lithology information of well 08

<b>Lithological Description of Well 08</b>			
<b>Top</b>	<b>Bottom</b>	<b>Major noun</b>	<b>Full description of the well</b>
0	3	CLAY	TOP SOIL BLACKISH COLOUR, CLAY MONTMONILONITE
3	7.6	SDFG	SAND FINE WHITE COLOR
7.6	18.2	SDUN	KANKER DIRTY EARTHY COLOR WITH SAND
18.2	42.7	SDMG	SAND WHITISH COLOUR, MEDIUM COARSE, ROUNDED TO SUBROUNDED
42.7	48.8	SDCG	SAND COARSE YELLOWISH, ANGLAR, LOOSE, FRIABLE
48.8	51.8	SDCG	SAND COARSE GREY, WITHQZ PEBBLES CLAYEY
51.8	57.9	CLAY	CLAY

6.1.9 Well 09

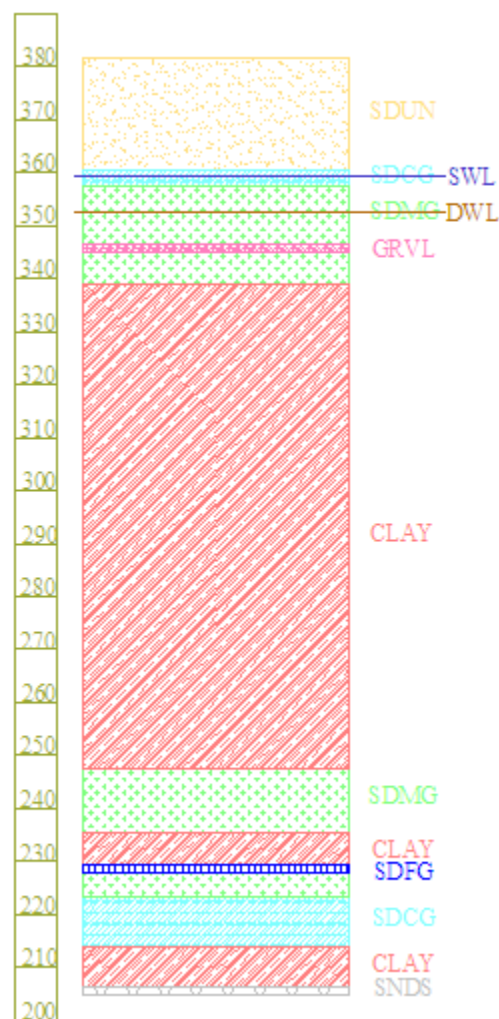


Fig (A.9) showing the lithology of well 09

Table (A.9) showing the lithology information of well 09

<b>Lithological Description of Well 09</b>			
<b>Top</b>	<b>Bottom</b>	<b>Major noun</b>	<b>Full description of the well</b>
0	21.3	SDUN	CLAYEY SAND WITH KANKER, GREY TO BROWN
21.3	24.4	SDCG	SAND, MEDIUM TO COARSE GRAINED YELLOWISH IN COLOR
24.4	35.1	SDMG	SAND, FINE TO MEDIUM, WITH PEBBLES, GREY TO GREEN
35.1	36.6	GRVL	GRAVEL, GREY TO GREEN
36.6	42.7	SDMG	SAND, FINE MEDIUM TO COARSE WITH PEBBLES, PALE GREEN
42.7	45.7	CLAY	CLAY, WITH SMALL GRAVEL, GREY IN COLOR
45.7	51.8	CLAY	CLAY, WITH BIG GRAVEL, GREY IN COLOR
51.8	134.1	CLAY	CLAY, STICKY, WITH DIFFERENT COLOR
134.1	140.2	SDMG	SAND, FINE TO MEDIUM GRAINED, WITH LENSES OF CLAY
140.2	144.8	SDMG	SAND, FINE TO MEDIUM WHITE IN COLOR
144.8	146.3	SDMG	SAND, FINE TO MEDIUM WITH LENSES OF CLAY GREY IN COLOR
146.3	149.4	CLAY	SANDY CLAY, DARK GREY IN COLOR
149.4	152.4	CLAY	CLAY, STICKY LIGHT GREY, DARK GREY IN COLOR
152.4	153.9	SDFG	CLAYEY SAND, FINE, DARK GREY IN COLOR
153.9	158.5	SDMG	SAND, FINE TO MEDIUM, WHITE IN COLOR
158.5	166.2	SDCG	SAND, FINE, MEDIUM TO COARSE WHITE WITH GRAVEL
166.2	167.7	SDCG	SAND, MEDIUM TO COARSE, WITH GRAVEL AND LENSES OF CLAY
167.7	170.7	CLAY	SANDY CLAY, DARK GREY IN COLOR
170.7	175.3	CLAY	CLAY, DARK GREY IN COLOR
175.3	176.8	SNDS	SANDSTONE, SILICIFIED WITH GRAVEL, DARK REDDISH IN COLOR

### 6.1.10 Well 10

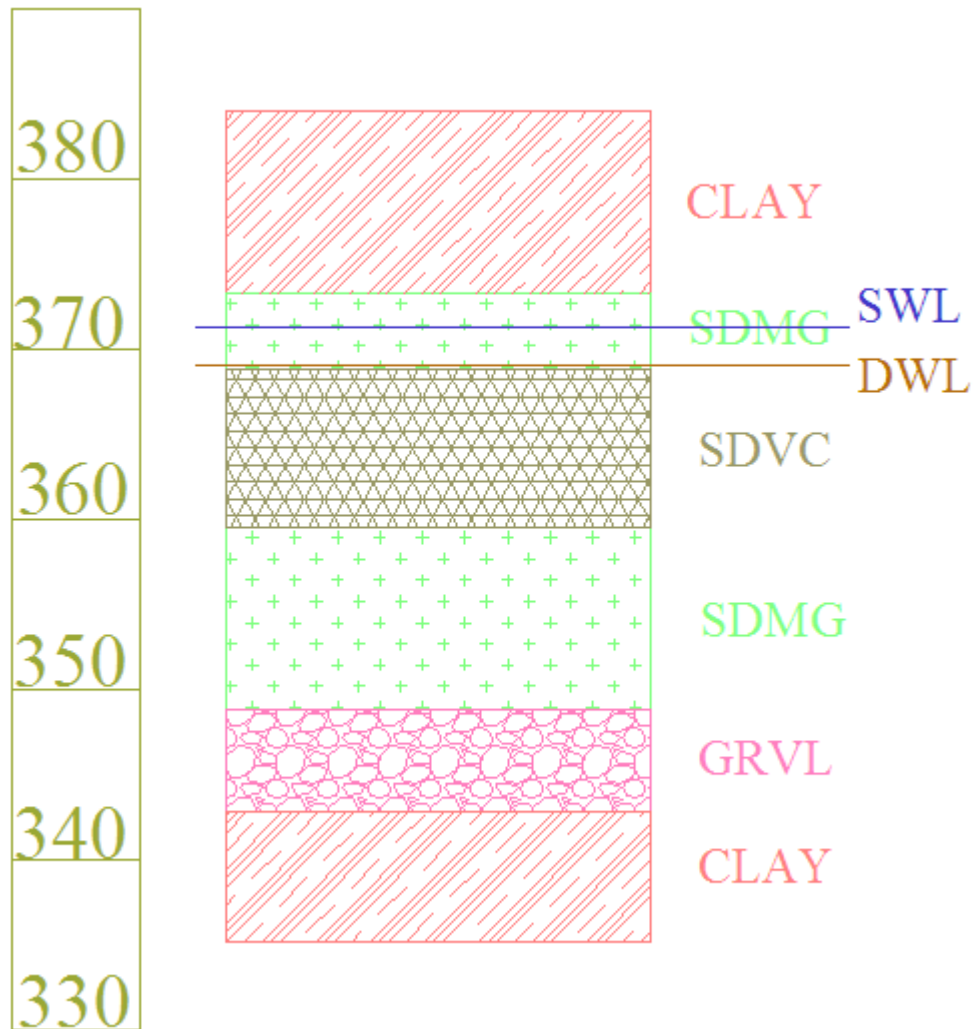


Fig (A.10) showing the lithology of well 10

Table (A.10) showing the lithology information of well 10

<b>Lithological Description of Well 10</b>			
<b>Top</b>	<b>Bottom</b>	<b>Major noun</b>	<b>Full description of the well</b>
0	4.6	CLAY	SANDY CLAY, BROWN IN COLOR, SOFT STICKY, SAND MEDIUM, SUBROUNDED WITH AMOUNT OF KANKER NODULES
4.6	10.7	CLAY	CLAY, INTERCALATED WITH SAND AND KANKER, GREY, SOFT, CLAY STICKY MEDIUM TO COARSE GRAINED
10.7	15.2	SDMG	SAND, MEDIUM GRAINED, YELLOW IN COLOR, FRIABLE, LOOSE, CONSTANT OF CLAY AND KANKER
15.2	24.4	SDVC	SAND, MEDIUM GRAINED DOWN TO VERY COARSE GRAINED, LOOSE, FRIABLE, POROUS, HOMOGENEOUS
24.4	35.1	SDMG	SAND, MEDIUM GRAINED, LOOSE, FRIABLE, WELL SORTED WITH MICA
35.1	41.2	GRVL	GRAVEL OF DIFFERENT COLOR, BUT THE FORMATION GENERALLY OF GREEN GREY IN COLOR SUBROUNDED, LOOSE DIA OF 4 MM
41.2	48.8	CLAY	CLAY, PALE BROWN IN COLOR, STICKY, COMPACT, HARD, WELL CEMENTED BY FERRIC AGENTS

### 6.1.11 Well 11

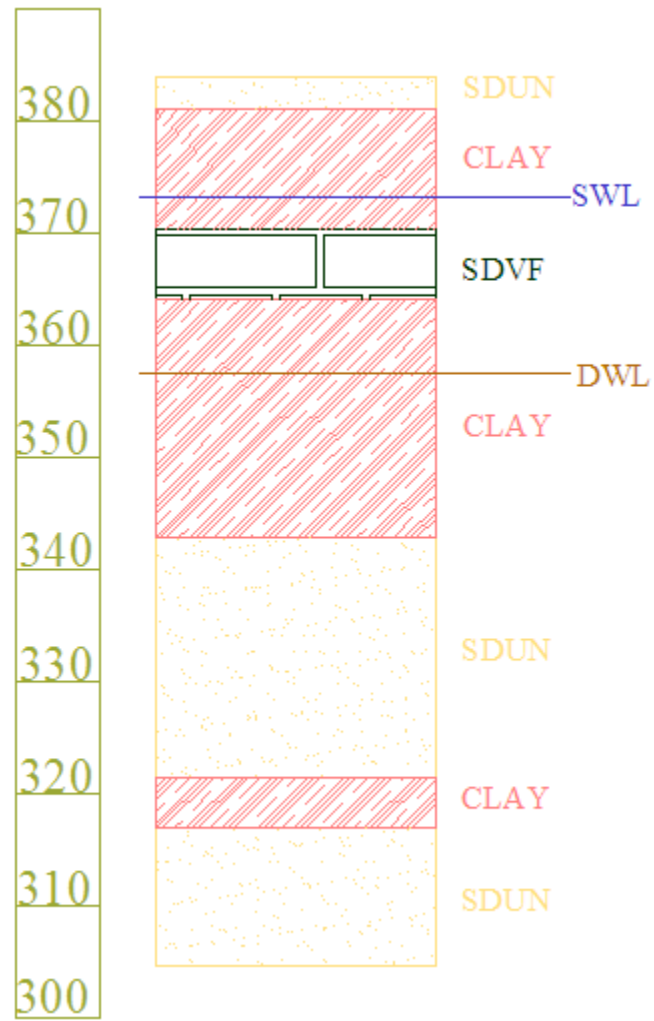


Fig (A.11) showing the lithology of well 11

Table (A.11) showing the lithology information of well 11

<b>Lithological Description of Well 11</b>			
<b>Top</b>	<b>Bottom</b>	<b>Major noun</b>	<b>Full description of the well</b>
0	3	SDUN	INTERBEDDED SAND AND CLAY, GREY COLOR, FINE TO VERY FINE ROUNDED, SOFT CLAY
3	6	CLAY	CLAY, DARK GREY STICKY
6	13.7	CLAY	SILT AND CLAY WHITISH GREY, BRITTLE, SOME MICA, GRADES STICKY WITH DEPTH
13.7	16.8	SDVF	SAND AND CLAY, WHITISH GREY FINE TO VERY FINE SAND, SOFT CLAY WITH SOME GRAVEL AND PEBBLE
16.8	19.8	SDVF	SAND, GREY BLACKISH COLOUR, FINE ROUNDED, LOOSE AND FRIABLE SORTED, VERY RICH IN MICA, CLEAN, EASILY PENETRATED
19.8	22.9	CLAY	CLAY AND GRAVEL, BROWN, SOFT CLAY, UP TO 0.4 CM PEBBLE V.H IN IRON CONCRETION
22.9	41.2	CLAY	CLAY, YELLOWISH CREAMY, SOFT, WITH ABOUT 30 % FINE SAND ROUNDED IN CHALKY MATERIAL, CONTAIN IRON STAINS
41.2	47.3	SDUN	SAND, VERY FINE TO FINE, LOOSE TO SOME EXTENT, POORLY CEMENTED BY CHALKY MATERIAL
47.3	56.4	SDUN	SAND, DIRTY YELLOW, FINE TO V.FINE, SORTED, LOOSE WITH SHEETED CLAY
56.4	62.5	SDUN	SAND, YELLOWISH WHITE, MEDIUM TO COARSE, ROUNDED, LOOSE AND FRIABLE, CLEAR, SORTED AND UNIFORMED
62.5	67	CLAY	INTERCALATION OF SAND AND GRAVEL, YELLOWISH WHITE, SOFTCLAY, MEDIUM TO COARSE SAND, CLAY= 60%
67	74.6	SDUN	YELLOWISH CLEAN SAND, MEDIUM TO COARSE, ROUNDED, LOOSE AND FRIABLE, SORTED, UNIFORMED
74.6	79.3	SDUN	INTERBEDDED SAND AND CLAY, YELLOWISH, MEDIUM TO COARSE, SOFT AND SOLUBLE CLAY, SAND



### 6.1.12 Well 12

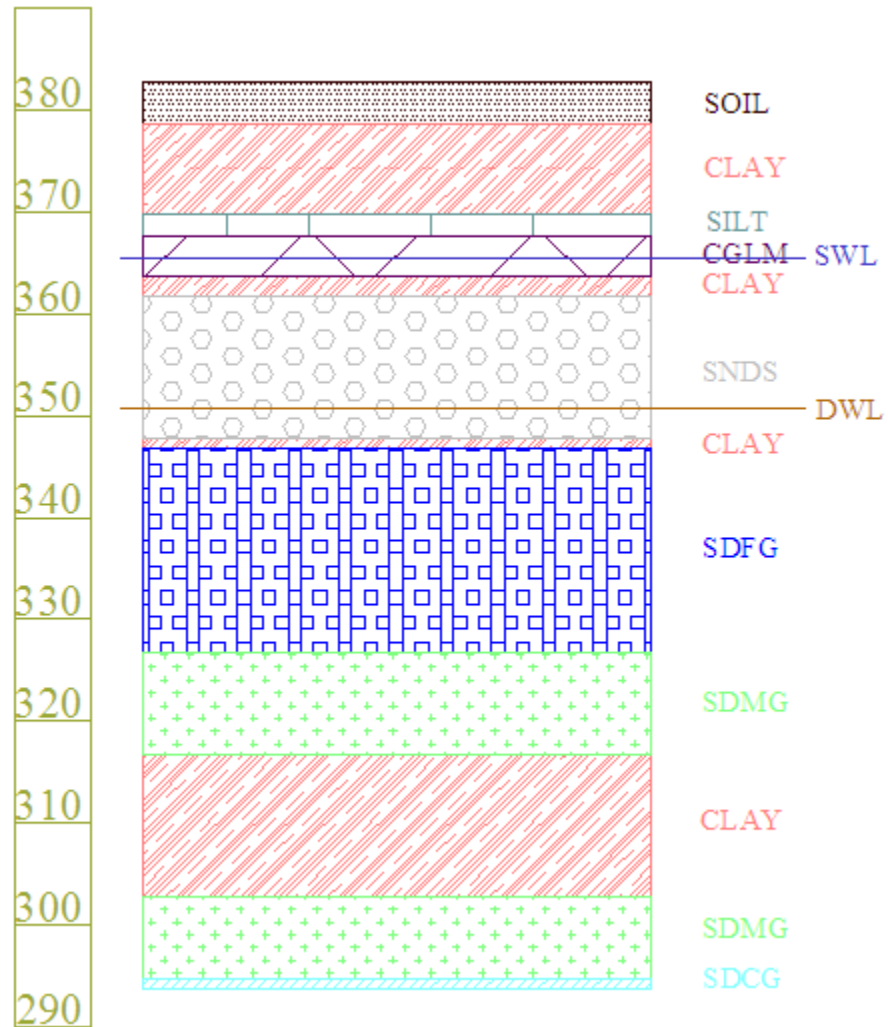


Fig (A.12) showing the lithology of well 12

Table (A.12) showing the lithology information of well 12

<b>Lithological Description of Well 12</b>			
<b>Top</b>	<b>Bottom</b>	<b>Major noun</b>	<b>Full description of the well</b>
0	4	SOIL	SOIL OF SURFACE DARK
4	10	CLAY	SANDY CLAY (WATE STRUCK AT 9 M) GREY
10	13	CLAY	SILTY CLAY BROWN TO GREY
13	15	SILT	CLAYEY SILT BROWN TO GREY
15	19	CGLM	COMOST LIMONITIC TO FERRUGIOUS CONGLOMERATE
19	21	CLAY	CLAY WHITE
21	35	SNDS	COMPACT FERRUGIOUS SANDSTOEN
35	36	CLAY	SANDY CLAY WHITE TO GREY
36	56	SDFG	CLAYEY FINE TO MEDIUM SAND RED TO WHITE
56	66	SDMG	MEDIUM TO COARSE SAND DARK TO RED
66	80	CLAY	PLASTIC CLAY DARK TO GREY
80	88	SDMG	MEDIUM TO COARSE SAND BROWN
88	89	SDCG	GRAVELLY COARSE SAND WHITE

### 6.1.13 Well 13

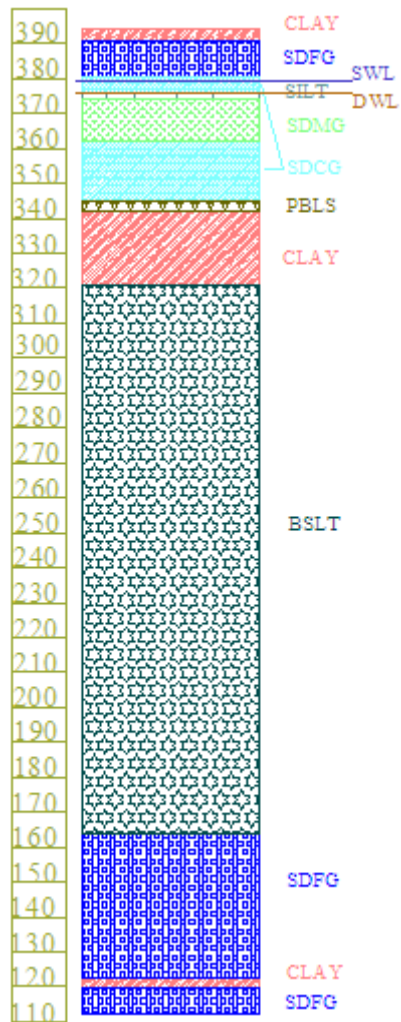


Fig (A.13) showing the lithology of well 13

Table (A.13) showing the lithology information of well 13

<b>Lithological Description of Well 13</b>			
<b>Top</b>	<b>Bottom</b>	<b>Major noun</b>	<b>Full description of the well</b>
0	3	CLAY	CLAY WITH SOME SAND
3	9.1	SDFG	CLAYEY FINE TO MEDIUM SAND, PALE GREY
9.1	13.7	SDFG	FINE TO MEDIUM SAND, BROWN TO YELLOW
13.7	18.3	SDCG	INTERCALATION OF COARSE SAND AND KANKAR
18.3	19.8	SILT	SILT WITH SOME CLAY, GREY
19.8	32	SDMG	MEDIUM TO COARSE SAND, YELLOW TO GREY
32	48.8	SDCG	CLAYEY COARSE SAND + IRON CONCRETION, GREY
48.8	51.8	PBLS	PEBBLE + BASALT + KANKER
51.8	73.2	CLAY	INTERCALATION OF CLAY, SAND AND KANKAR, GREEN
73.2	74.7	BSLT	INTERCALATION OF BASALT AND GRAVEL WITH FEW KANKER, WHITE
74.7	230.2	BSLT	INTERCALATION OF SHALE AND BASALT WITH FEW KANKER
230.2	271.3	SDFG	SHALY FINE SAND, BLACK
271.3	274.4	CLAY	STICKY CLAY, GREY
274.4	282	SDFG	FINE SAND, SHALY DARK GREY

6.1.14 Well 14

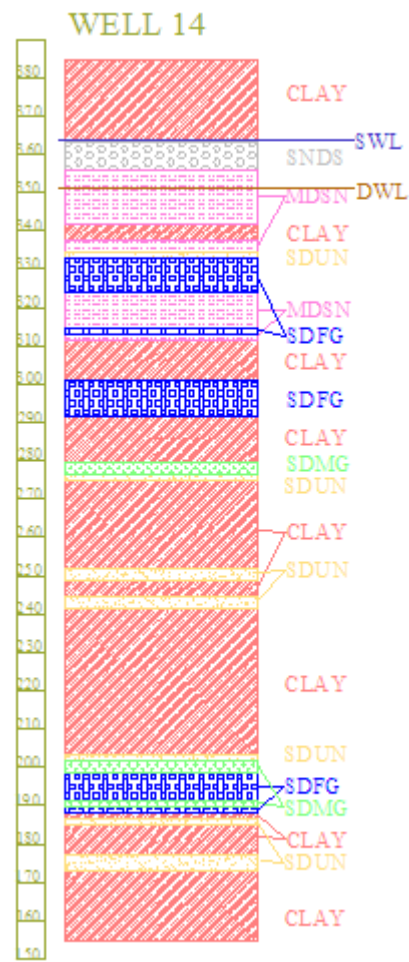


Fig (A.14) showing the lithology of well 14

<b>Lithological Description of Well 14</b>			
<b>Top</b>	<b>Bottom</b>	<b>Major noun</b>	<b>Full description of the well</b>
0	21.3	CLAY	CLAY DARK IN COLOUR
21.3	22.9	SNDS	SANDSTONE, COMPACT GREEN TO BLACK IN COLOUR
22.9	24.4	SNDS	SANDSTONE, COMPACT GREEN IN COLOUR
24.4	28.9	SNDS	SANDSTONE, WITH GRAVEL YELLOWISH IN COLOUR
28.9	32	MDSN	MUDSTONE YELLOWISH IN COLOUR
32	42.7	MDSN	MUDSTONE WHITISH IN COLOUR
42.7	47.3	CLAY	CLAY
47.3	50.3	MDSN	MUDSTONE REDDISH IN COLOUR
50.3	51.8	SDUN	CLAYEY SAND BLACKISH IN COLOUR
51.8	60.9	SDFG	SAND FINE GRAINED WITH PEBBLES, COMPACT
60.9	70.1	MDSN	MUDSTONE BLACKISH IN COLOUR
70.1	71.6	SDFG	SAND FINE GRAINED DIFFERENT IN COLOUR
71.6	73.2	MDSN	MUDSTONE GREY IN COLOUR
73.2	74.7	CLAY	SANDY CLAY WHITE IN COLOUR
74.7	83.8	CLAY	CLAY REDDISH IN COLOUR
83.8	92.9	SDFG	SAND FINE GRAINED BROWN IN COLOUR
92.9	96	CLAY	CLAY WHITISH IN COLOUR
96	99.1	CLAY	SANDY CLAY, GREY IN COLOUR
99.1	105.2	CLAY	CLAY WHITISH IN COLOUR
105.2	108.2	SDMG	SAND FINE TO MEDIUM GRAVEL WHITE A FEW SPECI OF GRAVEL WHITE BROWN INCOLOUR
108.2	109.8	SDUN	CLAYEY SAND, GREY IN COLOUR
109.8	112.8	CLAY	SANDY CLAY WHITISH IN COLOR
112.8	132.6	CLAY	SANDY CLAY, BROWN IN COLOR
132.6	135.7	SDUN	CLAYEY SAND WITH GRAVEL WHITE BROWN IN COLOR
135.7	140.2	CLAY	CLAY BROWNISH IN COLOR
140.2	143.3	SDUN	CLAYEY SAND GREY IN COLOUR
143.3	161.6	CLAY	CLAY WHITE IN COLOUR
161.6	169.2	CLAY	SANDY CLAY, GREY IN COLOUR
169.2	170.3	CLAY	CLAY WHITISH IN COLOUR
170.3	175.3	CLAY	SANDY CLAY WHITISH IN COLOR
175.3	181.4	CLAY	CLAY WHITE GREY IN COLOUR
181.4	182.9	SDUN	CLAYEY SAND WHITISH TO GREY IN COLOUR
182.9	185.9	SDMG	SAND FINE TO MEDIUM GREY TO WHITISH IN COLOR
185.9	193.6	SDFG	CLAYEY SAND FINE GRAINED AND GRAVEL
193.6	195.1	SDMG	SAND FINE TO MEDIUM GRAINED WITH FEW PIECES OF GRAVEL BROWNISH TO WHITISH IN COLOR

195.1	196.6	SDFG	SAND FINE GRAINED
196.6	198.2	CLAY	SANDY CLAY, GREY IN COLOUR
198.2	199.7	SDUN	CLAYEY SAND, GREY IN COLOUR
199.7	205.8	CLAY	CLAY REDDISH IN COLOUR
205.8	207.3	CLAY	CLAY GREY IN COLOR
207.3	211.9	SDUN	CLAYEY SAND, REDDISH IN COLOYR
211.9	213.4	CLAY	CLAY BROWNISH IN COLOR
213.4	214.9	CLAY	SANDY CLAY, GREY TO BROWNISH IN COLOR
214.9	230.2	CLAY	CLAY GREY IN COLOR

Table (A.14) showing the lithology information of well 14

## 6.1.15 Well 15

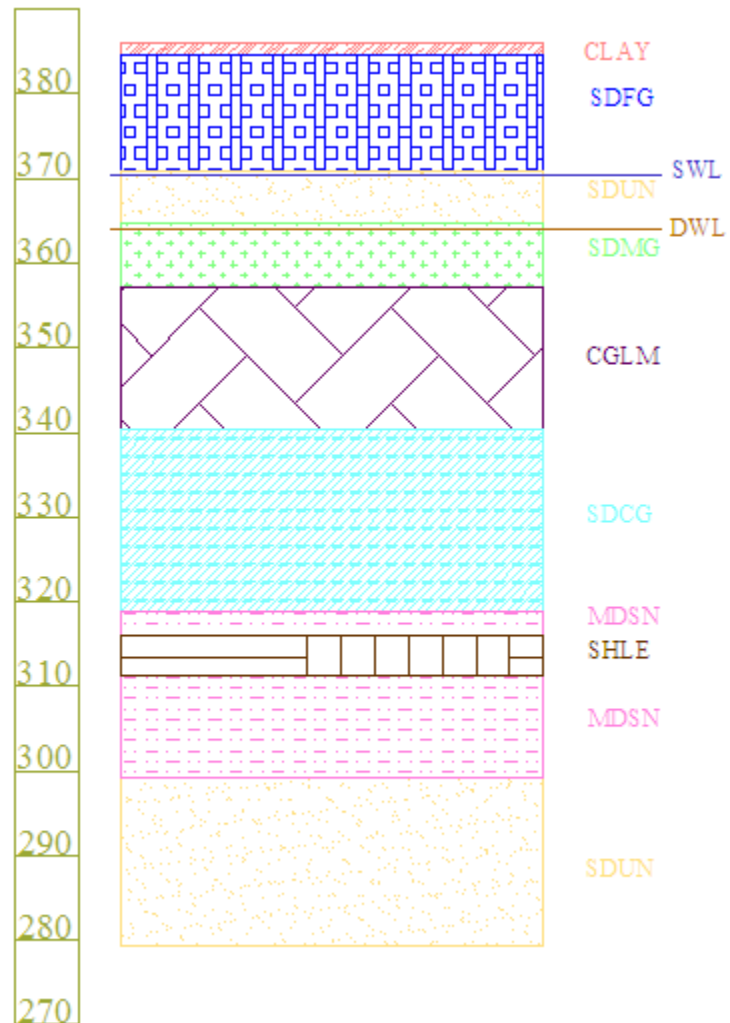


Fig (A.15) showing the lithology of well 15



Table (A.15) showing the lithology information of well 15

<b>Lithological Description of Well 15</b>			
<b>Top</b>	<b>Bottom</b>	<b>Major noun</b>	<b>Full description of the well</b>
0	1.5	CLAY	SANDY CLAY, PALE BROWN IN COLOUR, LOOSE AND FRIABLE
1.5	15.2	SDFG	FINE TO MEDIUM SAND, PALE BROWN COLOUR, WITH SILICATE MAT AND KANKAR
15.2	21.3	SDUN	INTERCALATION OF SAND AND KANKER AND SHEETED CLAYS (CLAYEY) ERATELLE INDURATED
21.3	28.9	SDMG	FINE TO MEDIUM SAND GRAINED, YELLOWISH BROWN COLOUR, FRIABLE
28.9	45.7	CGLM	INTRAFORMATIONAL CONGLOMERATE, PALE BROWN TO YELLOWISH, BROWN IN COLOUR, KAOLING MATERIAL
45.7	62.5	SDCG	INTERCALATION OF COARSE SAND AND MUDSTONE, CHIPPS, MODERATE INDURATED
62.5	67.1	SDCG	GRAVELY COARSE SAND, WELL SORTED, WELL UNIFORMED
67.1	70.1	MDSN	MUDSTONES, PALE GREY COLOUR WITH LITTLE OF SAND GRAINS, CEMENTED BY CHALKY MATERIAL
70.1	74.7	SHLE	SHALE, PALE BROWN COLOUR, INTERCALATED WITH SAND GRAINS IRON STAINING
74.7	86.8	MDSN	SANDY MUDSTONE, INTERCALATED WITH CARBONATE MATERIAL, MODERATE INDURATED
86.8	106.7	SDUN	FINE SANDSTONE, PALE GREY IN COLOUR, LOOSE, FRIABLE, CEMENTED BY CHALKY MATERIAL

6.1.16 Well 16

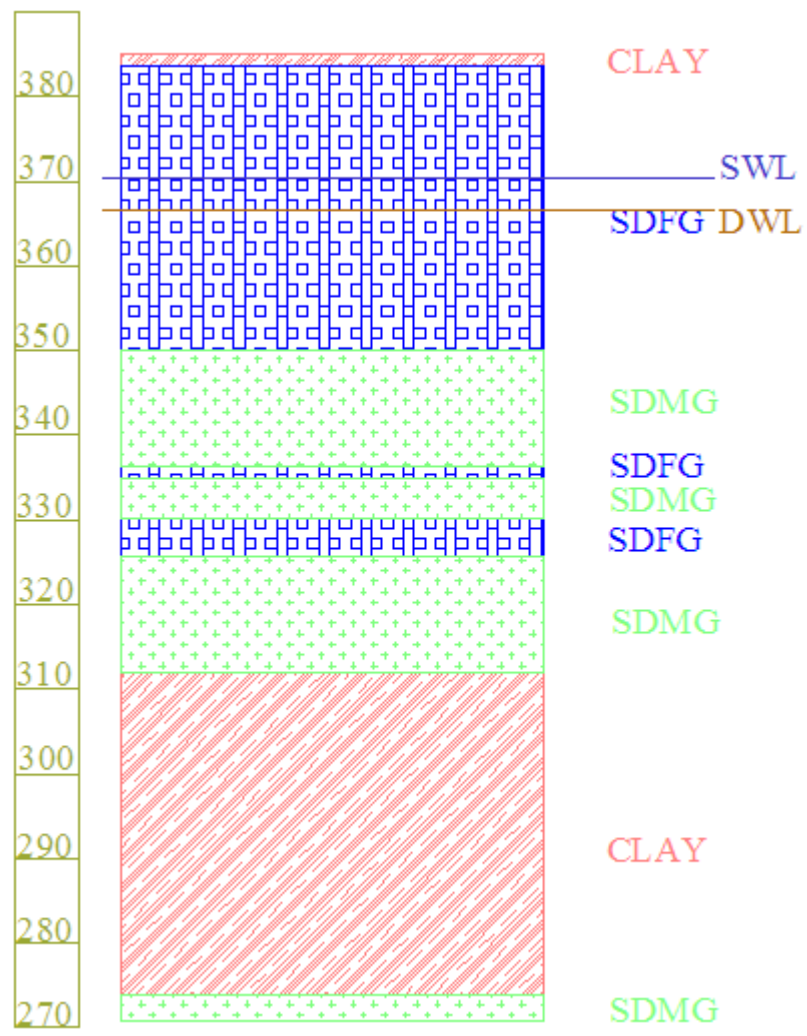


Fig (A.16) showing the lithology of well 16

Table (A.16) showing the lithology information of well 16

<b>Lithological Description of Well 16</b>			
<b>Top</b>	<b>Bottom</b>	<b>Major noun</b>	<b>Full description of the well</b>
0	1.5	CLAY	CLAY
1.5	12.2	SDFG	FINE SAND
12.2	24.4	SDFG	SILT SAND, FINE TO MEDIUM GRAIND
24.4	35.1	SDFG	FINE TO MEDIUM SAND, YELLOWISH IN COLOR
35.1	48.8	SDMG	SAND, FINE TO MEDIUM TO COARSE GRAINED SUBROUNDED, YELLOW
48.8	50.3	SDFG	SAND, FINE TO MEDIUM GRAINED
50.3	54.9	SDMG	GRAVELLY CLAYEY, FINE TO MEDIUM GRAINED SAND
54.9	59.5	SDFG	SILTY FINE GRAINED SAND
59.5	73.2	CLAY	CLAY, GREY IN COLOR
73.2	111.3	CLAY	SANDY CLAY, FINE GRAINED, GREYISH IN COLOUR
111.3	114.3	SDMG	SAND, FINE TO MEDIUM GRAINED, WHITE IN COLOR

### 6.1.17 Well 17

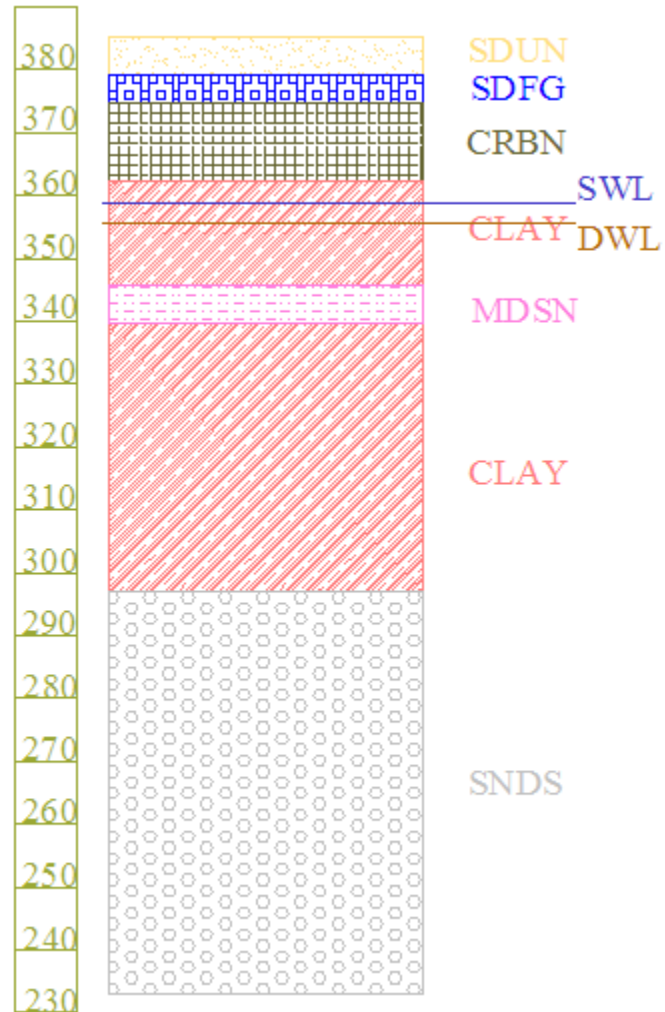


Fig (A.17) showing the lithology of well 17

Table (A.17) showing the lithology information of well 17

<b>Lithological Description of Well 17</b>			
<b>Top</b>	<b>Bottom</b>	<b>Major noun</b>	<b>Full description of the well</b>
0	6.1	SDUN	CLAYEY SAND, LIGHT GREY IN COLOR
6.1	10.7	SDFG	SAND, FINE - MEDIUM GRAINED, BROWN IN COLOR
10.7	13.7	CRBN	KANKER WITH SAND , WHITE IN COLOR
13.7	22.9	CRBN	KANKER, WHITE IN COLOR
22.9	35.1	CLAY	CLAY, GREY IN COLOR
35.1	39.6	CLAY	SANDY CLAY, WHITE IN COLOR
39.6	45.7	MDSN	MUDSTONE , WHITE IN COLOR
45.7	51.8	CLAY	SANDY CLAY, WHITE IN COLOR
51.8	70.1	CLAY	CLAY, WHITISH IN COLOR
70.1	74.7	CLAY	SANDY CLAY, LIGHT GREY IN COLOR
74.7	80.8	CLAY	CLAY, WHITISH GREY IN COLOR
80.8	88.4	CLAY	SANDY CLAY, GREY IN COLOR
88.4	94.5	SNDS	SANDSTONE, FINE GRAINED , WHITISH GREY IN COLOR
94.5	103.7	SNDS	SANDSTONE, FINE - MEDIUM GRAINED, WHITE IN COLOR
103.7	118.9	SNDS	PEBBLY SANDSTONE, MEDIUM GRAINED , LOOSE, WHITE IN COLOR
118.9	122	SNDS	SANDSTONE, VERY FINE GRAINED, WHITE IN COLOR
122	131.1	SNDS	PEBBLY SANDSTONE, MEDIUM TO COARSE GRAINED , ROUNDED - SUBROUNDED IN SHAPE GREY IN COLOR
131.1	144.8	SNDS	GRAVELLY SANDSTONE, COARSE TO V. COARSE GRAINED , WITH PEBBLY LOSSE, GREY IN COLOR
144.8	152.4	SNDS	SANDSTONE, COARSE TO VERY COARSE GRAINED, COMPACT, GREY IN COLOR