

A decorative border consisting of a repeating pattern of stylized floral or geometric symbols, arranged in a rectangular frame around the central text.

DATA  
FOR  
TAIZ

## Pumping Test Report Sheet

Well code: T-01 Site code: T-01 Site name: Al Muayteeb

District: Mawiyah Governorate: Taiz

Target water source: New projected deep well Well depth: 300 m

Contractor: Abdulkhaleg M. AL- Goli

Hydrogeologist in charge: Ali Abdullah Nagi AL- Gounaid

Operator: Mohammed Azeen

Date of start of the test: 1/9/2006 Date of end of the test: 2/9/2006

Pump type: Vertical pump Engine: Iveco aifo

Pump installation depth: 213 m Datum level: 0.92 m S.W.L.: G.L.-139.17 m

### Step drawdown test

Date/hour started: 1-9-2006-11:00pm Date/hour finished: 2-9-2006-6:30am Total hours: 7:30

Yield (l/sec): 1<sup>st</sup> step 1.00 2<sup>nd</sup> step 2.00 3<sup>rd</sup> step 3.00 4<sup>th</sup> step 4.00 5<sup>th</sup> step 5.00

Water level before start the test (G.L.-m): 139.17

Water level after end of 5<sup>th</sup> step (G.L.-m): 168.41

Water level after recovery (G.L.-m): 139.17 Recovery hours: 2:30

### Constant discharge test

Date/hour started: --- Date/hour finished: --- Total hours: ---

Yield (l/sec): ---

Water level before start of the test (G.L.-m): ---

Water level after end of test (G.L.-m): ---

Water level after recovery (G.L.-m): --- Recovery hours: ---

Drawdown (m): ---

Revised by:

Name :

Date:

# Step Drawdown Test

Well Code: T-01                      Site code: T-01  
 Site name: Al Muayteeb  
 District: Mawiyah  
 Governorate: Taiz

Pump on date/hour: 1-9-2006-11:00pm  
 Pump off date/hour: 2-9-2006-4:00am  
 End of recovery hour: 2-9-2006-6:30am  
 S.W.L ( m ): 140.09

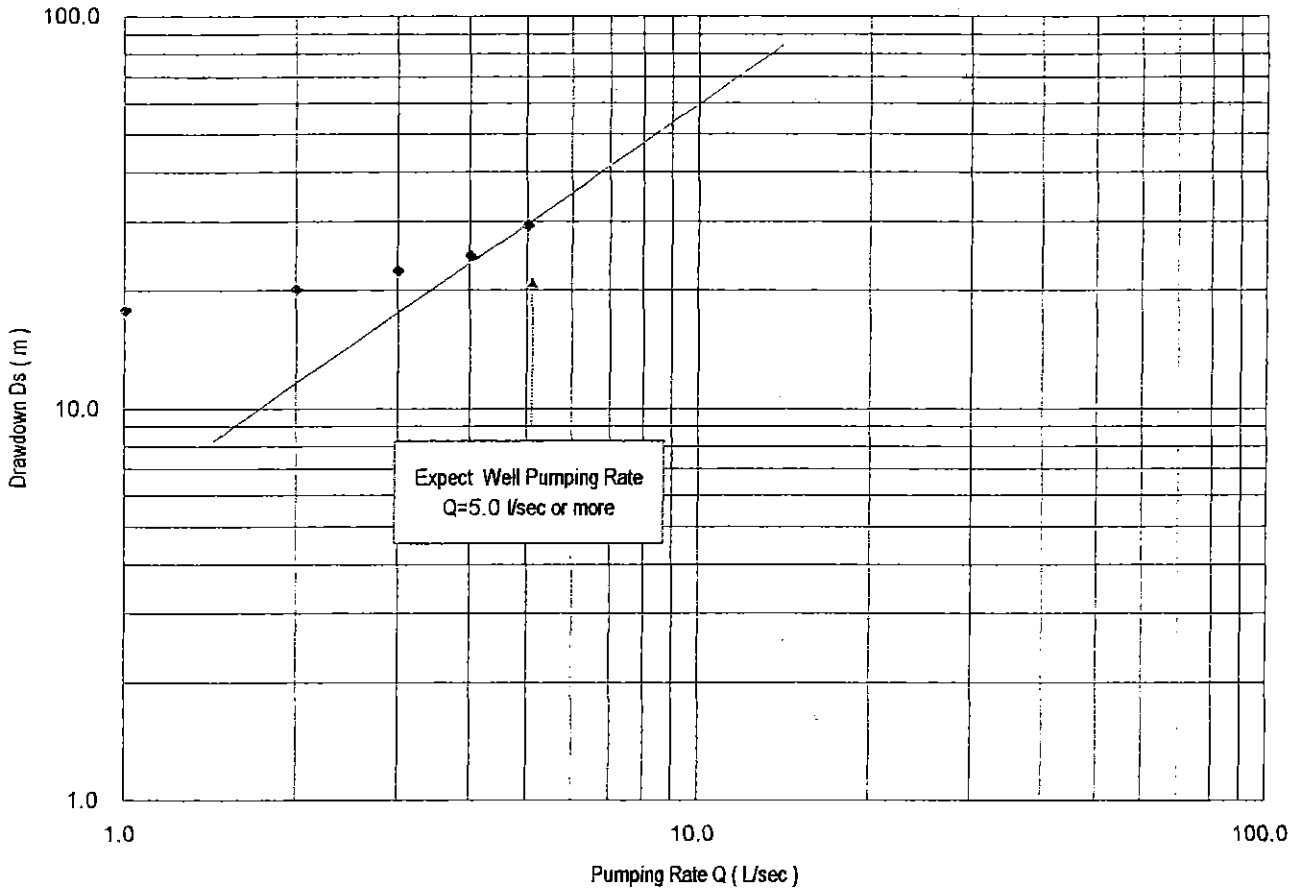
Contractor: Abdulkhaleg M. AL- Goli  
 Hydrogeologist: Ali Abdullah Nagi AL- Gounaid  
 Operator: Mohammed Azeen

Duration ( min )	1st Step		2nd Step		3rd Step		4th Step		5th Step		Recovery ( m )
	W.L. ( m )	Yield ( l/sec)	W.L. ( m )	Yield ( l/sec)	W.L. ( m )	Yield ( l/sec)	W.L. ( m )	Yield ( l/sec)	W.L. ( m )	Yield ( l/sec)	
0.0	140.09	1.00	157.83	2.00	160.17	3.00	162.54	4.00	164.58	5.00	169.33
0.5											
1.0											
1.5											
2.0											
2.5											
3.0											
3.5											
4.0											
4.5											
5.0											
6.0											
7.0											
8.0											
9.0											
10.0	148.11		159.27		162.19		163.72		166.81		155.51
12.0											
14.0											
16.0											
18.0											
20.0	151.40		159.86		162.20		164.21		167.27		150.81
25.0											
30.0	154.72		159.98		162.39		164.39		167.48		149.62
35.0											
40.0	155.91		160.08		162.47		164.46		167.81		148.31
45.0											
50.0	157.01		160.13		162.51		164.52		168.63		147.14
55.0											
60.0	157.83		160.17		162.54		164.58		169.33		146.00
70.0											145.09
80.0											144.07
90.0											143.05
100.0											142.17
110.0											141.06
120.0											140.87
130.0											140.65
140.0											140.30
150.0											140.09

# Step Drawdown Test

Well Code: T-01  
 Site Code: T-01  
 S.W.L.: 140.09 m

Site Name: Al Muayteeb

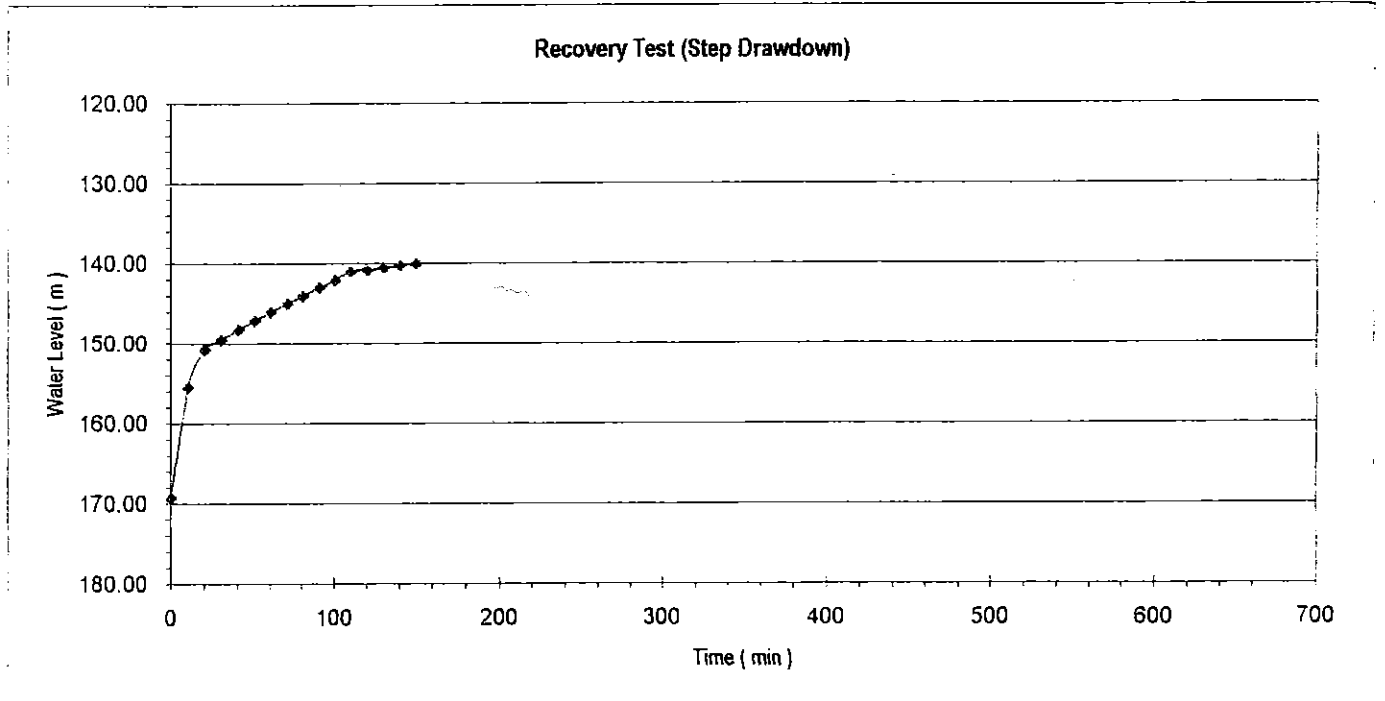
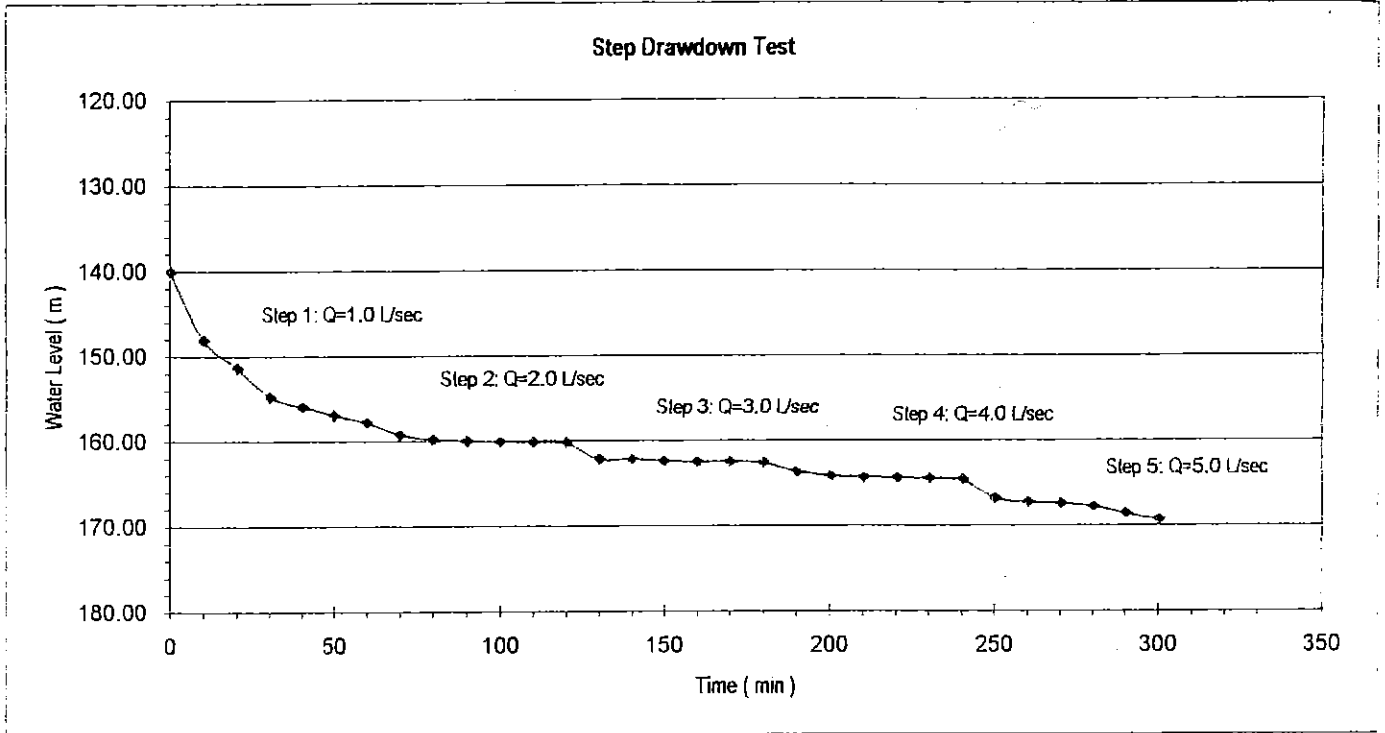


Step	Q (l/sec)	D.W.L. (m)	Ds (m)
1	1.0	157.83	17.74
2	2.0	160.17	20.08
3	3.0	162.54	22.45
4	4.0	164.58	24.49
5	5.0	169.33	29.24

# Step Drawdown Test

Well Code: T-01  
Site Code: T-01  
S.W.L.: 140.09 m

Site Name: Al Muayteeb



## Pumping Test Report Sheet

Well code: T-02/1 Site code: T-02 Site name: Bani Al Suror

District: Al Ma'afer Governorate: Taiz

Target water source: Existing projected deep well-Bir 1 Well depth: 230 m

Contractor: Abdulkhaleg M. AL- Goli

Hydrogeologist in charge: Ali Abdullah Nagi AL- Gounaid

Operator: Bulal

Date of start of the test: 15/7/2006 Date of end of the test: 17/7/2006

Pump type: Vertical pump Engine: Iveco aifo

Pump installation depth: 200 m Datum level: 0.32 m S.W.L.: G.L.-183.88 m

### Step drawdown test

Date/hour started: 16-7-2006-6:50am Date/hour finished: 16-7-2006-5:35pm Total hours: 10:45

Yield (l/sec): 1<sup>st</sup> step 1.60 2<sup>nd</sup> step 3.20 3<sup>rd</sup> step 4.80 4<sup>th</sup> step 5.40 5<sup>th</sup> step 8.00

Water level before start the test (G.L.-m): 183.88

Water level after end of 5<sup>th</sup> step (G.L.-m): 188.49

Water level after recovery (G.L.-m): 183.93 Recovery hours: 45 min

### Constant discharge test

Date/hour started: 16-7-2006-5:40pm Date/hour finished: 17-7-2006-7:20pm Total hours: 25:40

Yield (l/sec): 5.10

Water level before start of the test (G.L.-m): 183.88

Water level after end of test (G.L.-m): 186.42

Water level after recovery (G.L.-m): 183.88 Recovery hours: 01:40

Drawdown (m): 2.54

Revised by:

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Name :

Date:

# Provisional Step Drawdown Test

Well Code: T-02/1 Site code: T-02 Pump on date/hour: 15-7-2006-5:50pm  
 Site name: Bani Al Suror Pump off date/hour: 15-7-2006-8:20pm  
 District: Al Ma'afer End of recovery hour: 15-7-2006-8:32pm  
 Governorate: Taiz S.W.L (m): 184.20

Contractor: Abdukhaleg M. AL- Goli  
 Hydrogeologist: Ali Abdullah Nagi AL- Gounaid  
 Operator: Bulal

Duration (min)	1st Step		2nd Step		3rd Step		4th Step		5th Step		Recovery (m)
	W.L. (m)	Yield (l/sec)	W.L. (m)	Yield (l/sec)	W.L. (m)	Yield (l/sec)	W.L. (m)	Yield (l/sec)	W.L. (m)	Yield (l/sec)	
0.0	184.20	1.60	184.56	3.20	185.35	4.80	186.42	6.40	187.05	8.00	188.26
0.5	184.20		185.10		185.48		187.85		187.40		186.76
1.0	184.25		185.20		185.55		187.92		187.50		185.35
1.5	184.33		185.30		185.58		187.00		187.50		184.40
2.0	184.43		185.30		185.83		187.02		187.60		184.25
2.5	184.55		185.33		185.95		187.03		187.60		184.25
3.0	184.40		185.33		186.00		187.03		187.61		184.25
3.5	184.42		185.35		186.06		187.03		187.65		184.25
4.0	184.04		185.35		186.35		187.03		187.73		184.23
4.5	184.45		185.33		186.52		187.03		187.76		184.22
5.0	184.50		185.33		186.40		187.03		187.85		184.22
6.0	184.55		185.33		186.40		187.03		188.15		184.21
7.0	184.57		185.35		186.44		187.03		188.18		184.21
8.0	184.57		185.35		186.45		187.03		188.20		184.20
9.0	184.57		185.35		186.45		187.04		188.22		184.20
10.0	184.56		185.35		186.45		187.04		188.25		184.20
12.0	184.56		185.35		186.46		187.05		188.25		184.20
14.0	184.56		185.35		186.47		187.05		188.25		
16.0	184.56		185.34		186.46		187.05		188.24		
18.0	184.56		185.34		186.46		187.05		188.24		
20.0	184.56		185.34		186.44		187.05		188.25		
22.0	184.56		185.34		186.43		187.05		188.25		
24.0	184.56		185.34		186.42		187.05		188.25		
26.0	184.56		185.34		186.42		187.05		188.26		
28.0	184.56		185.35		186.42		187.05		188.26		
30.0	184.56		185.35		186.42		187.05		188.26		

## Step Drawdown Test

Well Code: T-02/1      Site code: T-02      Pump on date/hour: 16-7-2006-6:50am  
 Site name: Bani Al Suror      Pump off date/hour: 16-7-2006-4:50pm  
 District: Al Ma'afer      End of recovery hour: 16-7-2006-5:35pm  
 Governorate: Taiz      S.W.L (m): 184.20  
 Contractor: Abdulkhaleg M. AL- Goli  
 Hydrogeologist: Ali Abdullah Nagi AL- Gounaid  
 Operator: Bulal

Duration (min)	1st Step		2nd Step		3rd Step		4th Step		5th Step		Recovery (m)
	W.L. (m)	Yield (l/sec)	W.L. (m)	Yield (l/sec)	W.L. (m)	Yield (l/sec)	W.L. (m)	Yield (l/sec)	W.L. (m)	Yield (l/sec)	
0.0	184.20	1.60	184.69	3.20	185.35	4.80	186.59	6.40	187.62	8.00	188.81
0.5	185.25		185.15		185.92		187.00		188.20		186.70
1.0	185.12		185.50		186.04		187.35		188.55		185.87
1.5	185.05		185.60		186.30		187.44		188.61		185.55
2.0	185.05		185.60		186.38		187.48		188.68		185.16
2.5	185.05		185.61		186.40		187.51		188.71		184.93
3.0	184.85		185.61		186.42		187.51		188.71		184.65
3.5	184.70		185.49		186.44		187.53		188.71		184.57
4.0	184.60		185.45		186.44		187.53		188.71		184.49
4.5	184.65		185.43		186.43		187.53		188.71		184.45
5.0	184.65		185.40		186.43		187.53		188.72		184.40
6.0	184.67		185.38		186.43		187.53		188.72		184.35
7.0	184.67		185.35		186.44		187.53		188.74		184.30
8.0	184.67		185.35		186.44		187.53		188.74		184.30
9.0	184.68		185.35		186.44		187.54		188.74		184.29
10.0	184.68		185.35		186.44		187.54		188.75		184.28
12.0	184.68		185.34		186.43		187.54		188.75		184.28
14.0	184.67		185.35		186.43		187.55		188.76		184.28
16.0	184.67		185.35		186.44		187.55		188.76		184.27
18.0	184.69		185.36		186.44		187.55		188.76		184.27
20.0	184.69		185.36		186.44		187.55		188.76		184.27
25.0	184.70		185.35		186.45		187.55		188.77		184.27
30.0	184.73		185.35		186.46		187.55		188.77		184.26
35.0	184.75		185.35		186.48		187.55		188.78		184.26
40.0	184.76		185.35		186.50		187.55		188.78		184.25
45.0	184.78		185.35		186.50		187.56		188.79		184.25
50.0	184.80		185.35		186.52		187.57		188.79		
55.0	184.79		185.35		186.52		187.57		188.79		
60.0	184.77		185.35		186.54		187.57		188.80		
70.0	184.77		185.35		186.56		187.58		188.80		
80.0	184.75		185.34		186.57		187.58		188.80		
90.0	184.72		185.34		186.58		187.59		188.80		
100.0	184.72		185.35		186.59		187.61		188.81		
110.0	184.69		185.35		186.59		187.62		188.81		
120.0	184.69		185.35		186.59	4-314	187.62		188.81		



## Constant Discharge & Recovery Test (1/2)

Well Code: T-02/1 Site code: T-02

Site name: Bani Al Suror

Pump on date/hour: 16-7-2006-5:40pm

District: Al Ma'afer

Pump off date/hour: 17-7-2006-5:40pm

Governorate: Taiz

End of recovery hour: 17-7-2006-7:20pm

Contractor: Abdulkhaleg M. AL- Goli

S.W.L ( m ): 184.20

Hydrogeologist: Ali Abdullah Nagi AL- Gounaid

D.W.L ( m ): 186.74

Operator: Bulal

Yield (l/sec): 5.1

Duration ( min )	Constant Discharge Test			Recovery Test		Water Analysis	Remarks
	Water level (m)	Drawdown (m)	Pumping rate (l/sec)	Water level (m)	Residual (m)	Conductivity ( )	
0.0	184.20	0.00		186.74	2.54		
0.5	187.20	3.00		186.06	1.86		
1.0	187.00	2.80		185.45	1.25		
1.5	186.95	2.75		185.15	0.95		
2.0	186.85	2.65		184.73	0.53		
2.5	186.70	2.50		184.55	0.35		
3.0	186.60	2.40		184.54	0.34		
3.5	186.60	2.40		184.52	0.32		
4.0	186.55	2.35		184.50	0.30		
4.5	186.58	2.38		184.48	0.28		
5.0	186.58	2.38		184.46	0.26		
6.0	186.58	2.38		184.44	0.24		
7.0	186.58	2.38		184.42	0.22		
8.0	186.58	2.38		184.42	0.22		
9.0	186.58	2.38		184.41	0.21		
10.0	186.58	2.38		184.40	0.20		
12.0	186.58	2.38		184.39	0.19		
14.0	186.57	2.37		184.36	0.16		
16.0	186.56	2.36		184.33	0.13		
18.0	186.56	2.36		184.30	0.10		
20.0	186.56	2.36		184.28	0.08		
25.0	186.56	2.36		184.26	0.06		
30.0	186.58	2.38		184.25	0.05		
35.0	186.58	2.38		184.24	0.04		
40.0	186.59	2.39		184.24	0.04		
45.0	186.60	2.40		184.23	0.03		
50.0	186.60	2.40		184.23	0.03		
55.0	186.61	2.41		184.23	0.03		
60.0	186.63	2.43		184.22	0.02		

## Constant Discharge & Recovery Test (2/2)

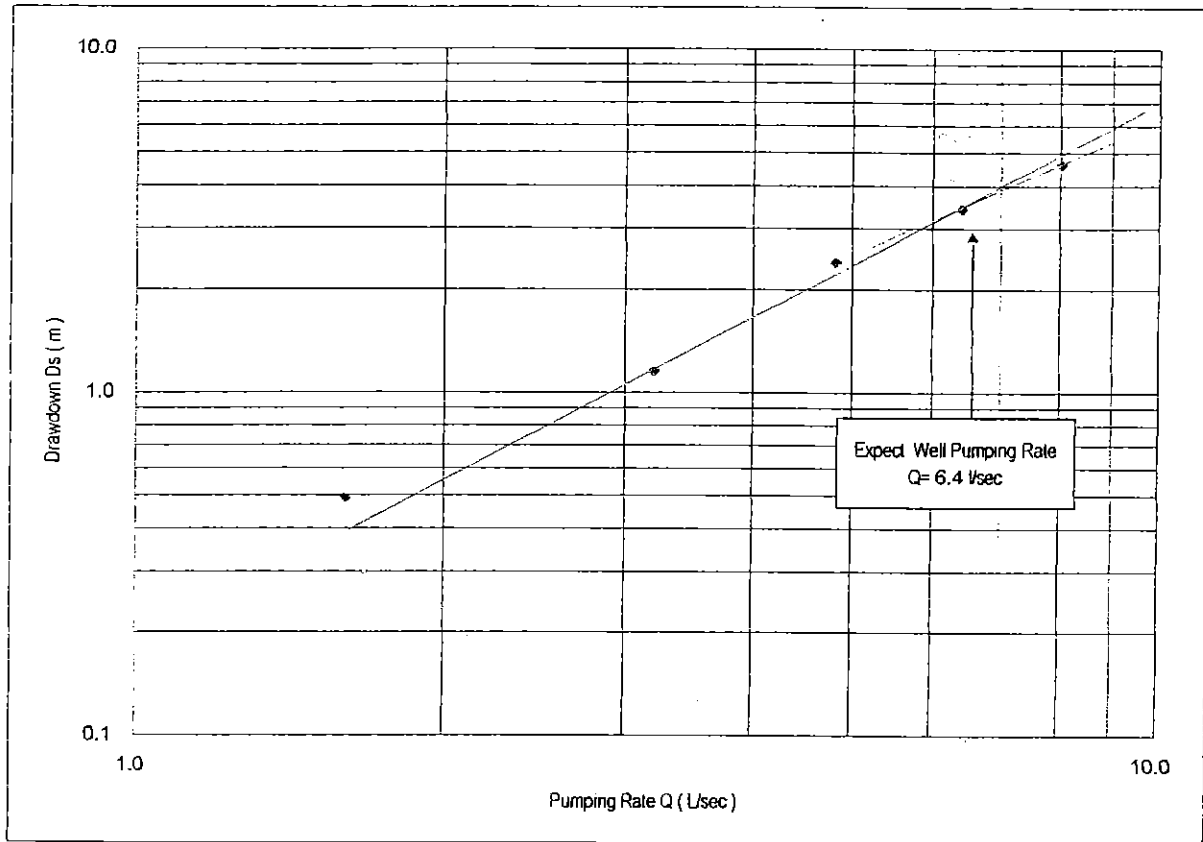
Well Code: T-02/1      Site code: T-02      Site name: Bani Al Suror  
 District: Al Ma'afar      Governorate: Taiz

Duration ( min )	Constant Discharge Test			Recovery Test		Water Analysis	Remarks
	Water level (m)	Drawdown (m)	Pumping rate (l/sec)	Water level (m)	Residual (m)	Conductivity ( )	
70.0	186.65	2.45		184.22	0.02		
80.0	186.65	2.45		184.21	0.01		
90.0	186.66	2.46		184.21	0.01		
100.0	186.68	2.48		184.20	0.00		
110.0	186.68	2.48		184.20	0.00		
120.0	186.70	2.50		184.20	0.00		
140.0	186.70	2.50		184.20	0.00		
160.0	186.70	2.50		184.20	0.00		
180.0	186.68	2.48		184.20	0.00		
200.0	186.68	2.48		184.20	0.00		
220.0	186.68	2.48					
240.0	186.68	2.48					
280.0	186.69	2.49					
320.0	186.70	2.50					
360.0	186.70	2.50					
420.0	186.70	2.50					
480.0	186.70	2.50					
540.0	186.71	2.51					
600.0	186.71	2.51					
660.0	186.72	2.52					
720.0	186.73	2.53					
840.0	186.73	2.53					
960.0	186.74	2.54					
1080.0	186.74	2.54					
1200.0	186.74	2.54					
1320.0	186.74	2.54					
1440.0	186.74	2.54					

## Step Drawdown Test

Well Code: T-02/1  
 Site Code: T-02  
 S.W.L. : 184.20 m

Site Name: Bari Al Suror

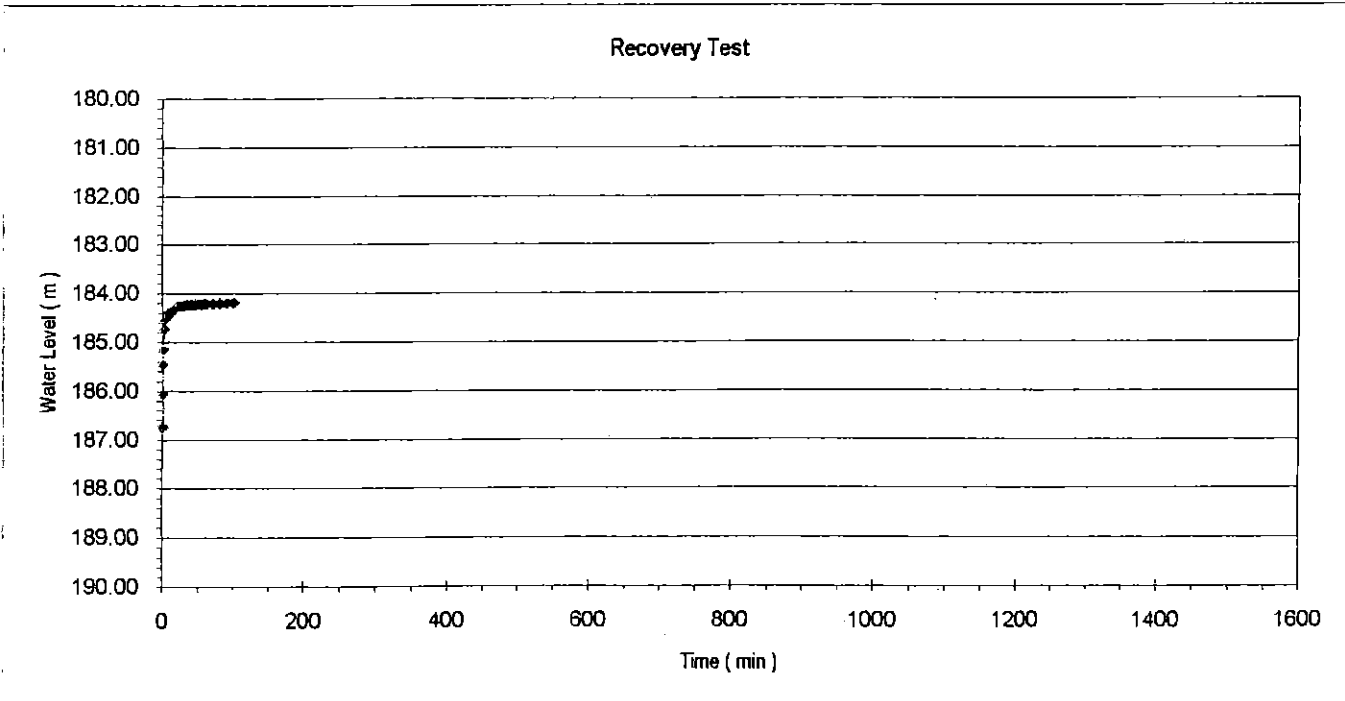
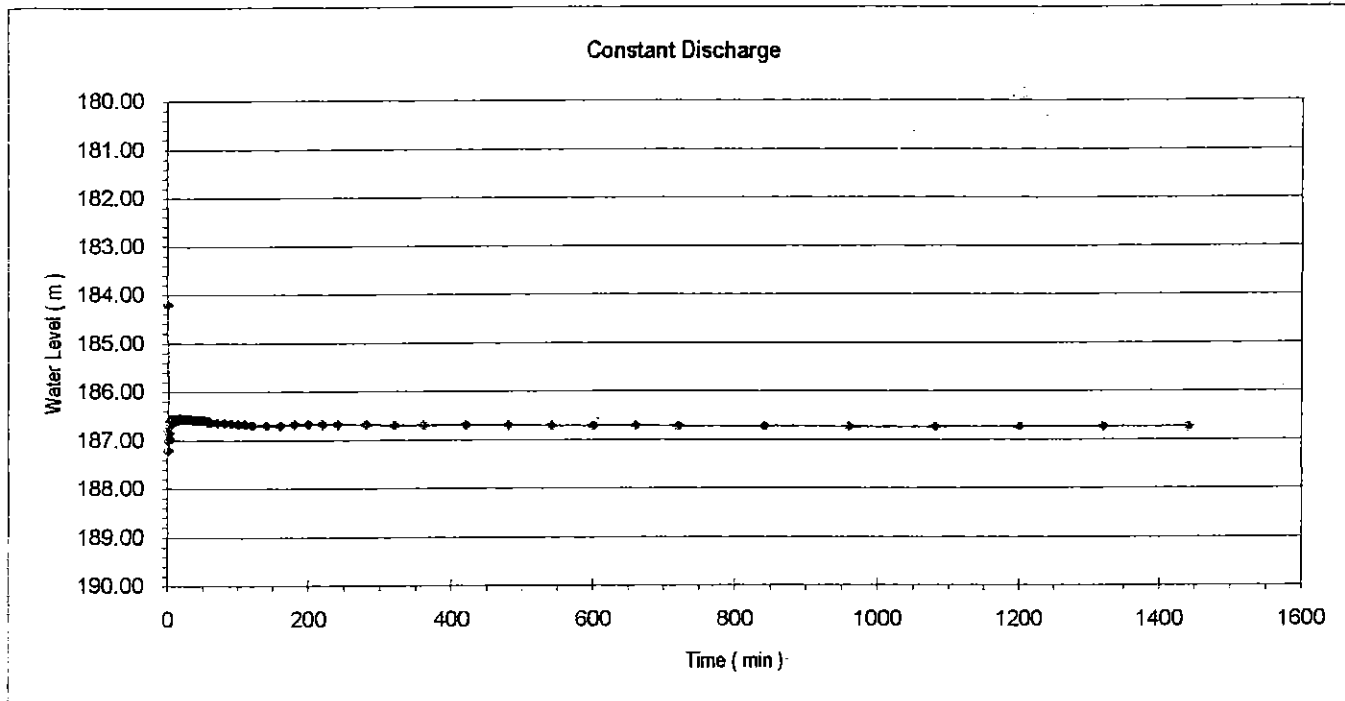


Step	$Q$ (l/sec)	D.W.L. (m)	$D_s$ (m)
1	1.6	184.69	0.49
2	3.2	185.35	1.15
3	4.8	186.59	2.39
4	6.4	187.62	3.42
5	8.0	188.81	4.61

### Constant Discharge Test

Well Code: T-02/1  
Site Code: T-02  
S.W.L. (m): 184.20  
Yield (L/sec): 5.1

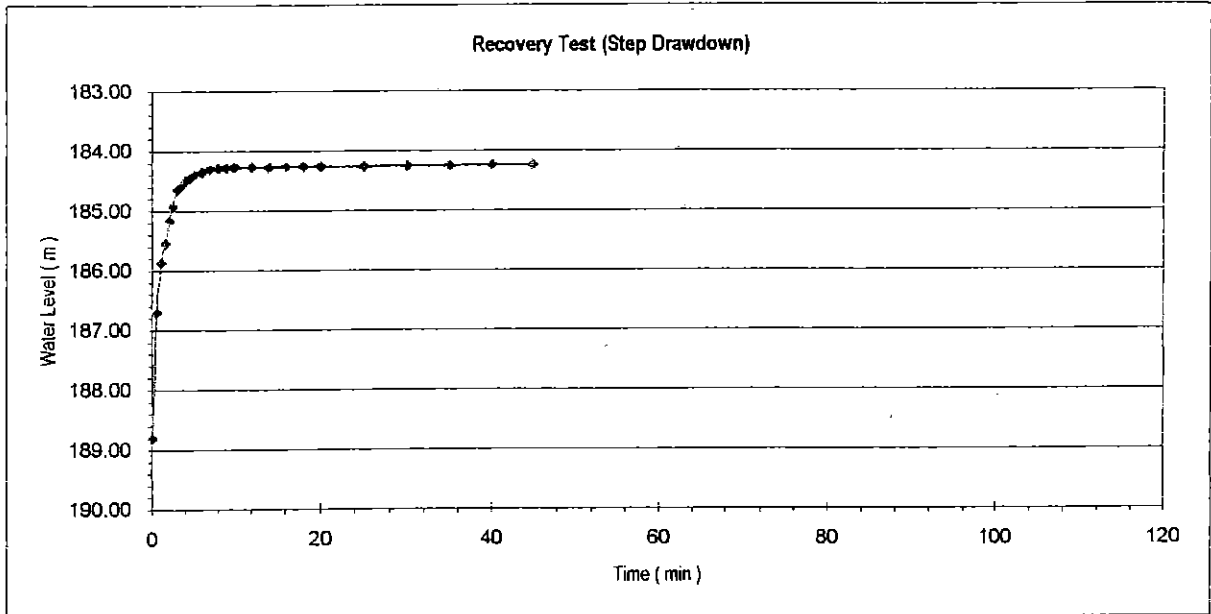
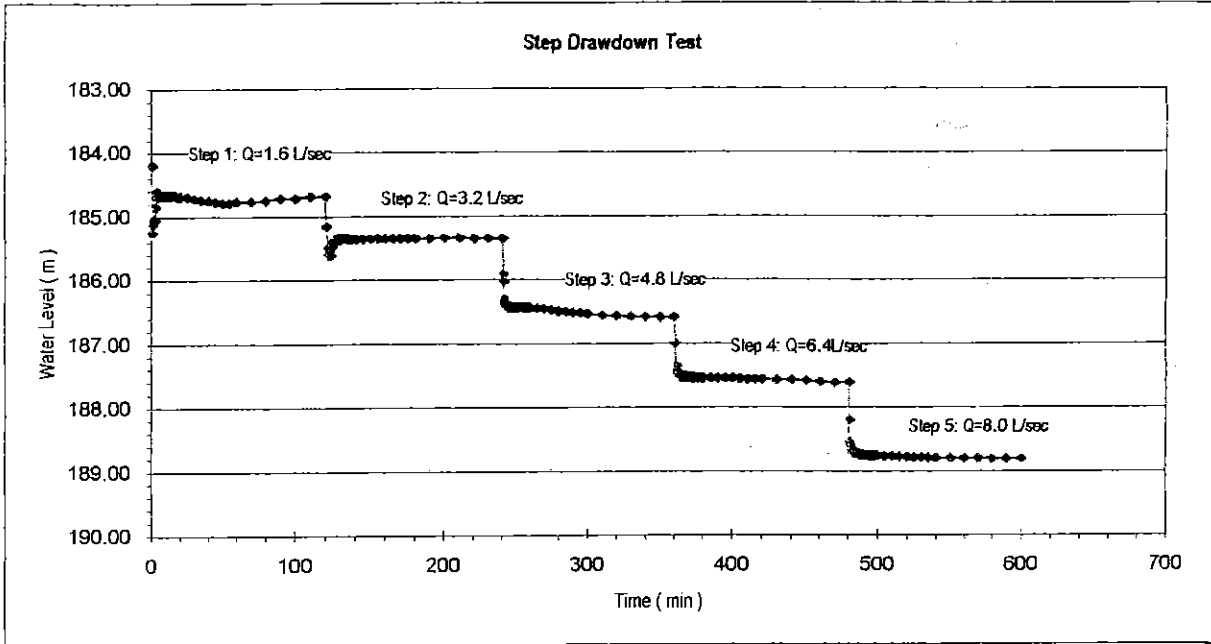
Site Name: Bani Al Suror  
D.W.L (m): 186.74      Drawdown (m): 2.54



# Step Drawdown Test

Well Code: T-02/1  
Site Code: T-02  
S.W.L. : 184.20 m

Site Name: Bani Al Suror



## Pumping Test Report Sheet

Well code: T-02/3 Site code: T-02 Site name: Bani Al Suror

District: Al Ma'afer Governorate: Taiz

Target water source: Existing projected deep well-Bir 3 Well depth: 251 m

Contractor: Abdulkhaleg M. AL- Goli

Hydrogeologist in charge: Ali Abdullah Nagi AL- Gounaid

Operator: Abdulws'e Abdullah Ahmed

Date of start of the test: 21/7/2006 Date of end of the test: 24/7/2006

Pump type: Vertical pump Engine: Iveco aifo

Pump installation depth: 178 m Datum level: 0.38 m S.W.L.: G.L.-117.62 m

### Step drawdown test

Date/hour started: 21-7-2006-4:06pm Date/hour finished: 22-7-2006-10:45am Total hours: 18:40

Yield (l/sec): 1<sup>st</sup> step 1.60 2<sup>nd</sup> step 3.20 3<sup>rd</sup> step 4.80 4<sup>th</sup> step 6.40 5<sup>th</sup> step 8.00

Water level before start the test (G.L.-m): 118.17

Water level after end of 5<sup>th</sup> step (G.L.-m): 169.10

Water level after recovery (G.L.-m): 118.55 Recovery hours: 08:40

### Constant discharge test

Date/hour started: 22-7-2006-10:50pm Date/hour finished: 24-7-2006-4:50pm Total hours: 40:00

Yield (l/sec): 2.60

Water level before start of the test (G.L.-m): 118.93

Water level after end of test (G.L.-m): 140.04

Water level after recovery (G.L.-m): 118.93 Recovery hours: 16:00

Drawdown (m): 21.11

Revised by:

Name :

Date:

## Provisional Step Drawdown Test

Well Code: T-02/3      Site code: T-02      Pump on date/hour: 21-7-2006-1:00am  
 Site name: Bani Al Suror      Pump off date/hour: 21-7-2006-3:30am  
 District: Al Ma'fer      End of recovery hour: 21-7-2006-4:00pm  
 Governorate: Taiz      S.W.L ( m ): 118.00

Contractor: Abdulkhaleg M. AL- Goli  
 Hydrogeologist: Ali Abdullah Naqi AL- Gounaid  
 Operator: Abdulws'e Abdullah Ahmed

Duration ( min )	1st Step		2nd Step		3rd Step		4th Step		5th Step		Recovery ( m )
	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	
0.0	118.00	1.60	118.75	3.20	119.97	4.80	121.20	5.40	121.95	6.00	123.05
0.5	118.00		119.00		120.00		121.25		122.03		121.80
1.0	118.05		119.20		120.20		121.30		122.08		121.55
1.5	118.10		119.26		120.40		121.40		122.20		121.17
2.0	118.13		119.30		120.50		121.45		122.30		120.85
2.5	118.15		119.42		120.60		121.50		122.38		120.85
3.0	118.20		119.52		120.65		121.54		122.45		120.66
3.5	118.20		119.54		120.68		121.55		122.51		120.43
4.0	118.21		119.56		120.70		121.66		122.57		120.29
4.5	118.23		119.56		120.73		121.66		122.60		120.25
5.0	118.25		119.56		120.75		121.67		122.64		120.25
6.0	118.35		119.56		120.78		121.67		122.66		120.18
7.0	118.40		119.56		120.78		121.69		122.68		119.99
8.0	118.55		119.56		120.80		121.69		122.70		119.96
9.0	118.60		119.56		120.84		121.73		122.75		119.79
10.0	118.68		119.56		120.90		121.77		122.80		119.74
12.0	118.68		119.58		120.94		121.80		122.84		119.70
14.0	118.68		119.58		120.96		121.84		122.88		119.54
16.0	118.70		119.58		121.00		121.85		122.88		119.48
18.0	118.70		119.59		121.04		121.88		122.90		119.31
20.0	118.70		119.64		121.06		121.92		122.90		119.28
22.0	118.70		119.70		121.10		121.92		122.92		119.18
24.0	118.70		119.80		121.10		121.92		122.94		119.09
26.0	118.74		119.87		121.13		121.92		122.98		119.09
28.0	118.74		119.93		121.16		121.95		123.01		119.09
30.0	118.75		119.97		121.20		121.95		123.05		119.09
50.0											119.09
60.0											119.09
80.0											118.95
100.0											118.95
120.0											118.90
140.0											118.82
160.0											118.80
180.0											118.60
200.0											118.60
220.0											118.55
240.0											118.55
300.0											118.55
750.0											118.55

## Step Drawdown Test

Well Code: T-02/3      Site code: T-02      Pump on date/hour: 21-7-2006-4:06pm  
 Site name: Bani Al Suror      Pump off date/hour: 22-7-2006-2:06am  
 District: Al Ma'afer      End of recovery hour: 22-7-2006-10:45am  
 Governorate: Taiz      S.W.L ( m ): 118.55

Contractor: Abdulkhaleg M. AL- Goli  
 Hydrogeologist: Ali Abdullah Nagi AL- Gounaid  
 Operator: Abdulws'e Abdullah Ahmed

Duration ( min )	1st Step		2nd Step		3rd Step		4th Step		5th Step		Recovery ( m )
	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	
0.0	118.55	1.60	119.99	3.20	122.60	4.80	133.40	6.40	149.45	8.00	169.48
0.5	118.96		120.30		122.85		133.60		152.90		160.03
1.0	119.01		120.35		123.10		134.14		152.97		154.13
1.5	119.03		120.39		123.23		135.60		153.61		
2.0	119.03		120.44		123.31		135.84		153.89		
2.5	119.03		120.45		123.42		136.00		154.02		
3.0	119.03		120.45		123.54		136.19		154.21		149.90
3.5	119.05		120.45		123.62		136.26		154.30		
4.0	119.05		120.45		123.65		136.42		154.45		149.71
4.5	119.05		120.45		123.68		136.56		154.53		149.44
5.0	119.07		120.45		123.80		136.65		154.62		148.65
6.0	119.07		120.45		123.85		136.80		154.81		148.61
7.0	119.07		120.45		123.87		136.96		156.88		148.12
8.0	119.08		120.46		123.97		137.25		156.28		147.62
9.0	119.08		120.48		124.02		137.40		156.47		147.57
10.0	119.09		120.52		124.08		137.54		156.56		146.89
12.0	119.10		120.57		124.16		137.95		157.98		146.28
14.0	119.11		120.60		124.27		138.43		157.46		145.09
16.0	119.13		120.64		124.36		138.87		157.88		144.89
18.0	119.15		120.73		124.47		139.39		159.40		144.11
20.0	119.16		120.77		124.55		139.65		159.67		143.28
25.0	119.19		120.85		124.94		140.52		160.54		141.39
30.0	119.20		120.98		125.42		141.20		161.23		138.96
35.0	119.21		121.06		126.03		141.29		161.81		137.13
40.0	119.23		121.20		126.50		142.41		162.44		135.74
45.0	119.28		121.27		127.95		143.25		163.27		133.71
50.0	119.30		121.41		128.71		144.62		164.64		132.44
55.0	119.42		121.52		129.17		145.20		165.22		131.47
60.0	119.47		121.57		129.55		145.61		165.65		130.05
70.0	119.53		121.74		130.39		146.42		166.44		128.37
80.0	119.58		121.98		130.90		146.95		166.97		126.17
90.0	119.67		122.14		131.57		147.60		167.64		125.47
100.0	119.79		122.30		131.97		147.99		168.00		123.31
110.0	119.80		122.44		132.54		148.61		168.66		122.57
120.0	119.99		122.60		133.40		149.45		169.48		121.19
140.0											120.87
160.0											120.00
180.0											119.67
200.0											119.00
220.0											118.93



## Constant Discharge & Recovery Test (1/2)

Well Code: T-02/3 Site code: T-02

Site name: Bani Al Suror

Pump on date/hour: 22-7-2006-10:50pm

District: Al Ma'afar

Pump off date/hour: 23-7-2006-10:50pm

Governorate: Taiz

End of recovery hour: 24-7-2006-4:50pm

Contractor: Abdulkhaleg M. AL- Goli

S.W.L ( m ): 118.93

Hydrogeologist: Ali Abdullah Nagi AL- Gounaid

D.W.L ( m ): 140.04

Operator: Abdulws'e Abdullah Ahmed

Yield (l/sec): 2.6

Duration ( min )	Constant Discharge Test			Recovery Test		Water Analysis	Remarks
	Water level (m)	Drawdown (m)	Pumping rate (l/sec)	Water level (m)	Residual (m)	Conductivity ( )	
0.0	118.93	0.00		140.04	21.11		
0.5	119.88	0.95		137.27	18.34		
1.0	120.54	1.61		137.76	18.83		
1.5	120.93	2.00		136.59	17.66		
2.0	121.47	2.54		136.19	17.26		
2.5	121.29	2.36		136.59	17.66		
3.0	121.25	2.32		134.94	16.01		
3.5	121.22	2.29		134.31	15.38		
4.0	121.20	2.27		134.26	15.33		
4.5	121.19	2.26		134.21	15.28		
5.0	121.88	2.95		134.16	15.23		
6.0	121.93	3.00		134.51	15.58		
7.0	122.03	3.10		133.84	14.91		
8.0	122.06	3.15		133.71	14.78		
9.0	122.13	3.20		133.56	14.63		
10.0	122.15	3.22		133.33	14.40		
12.0	122.22	3.29		132.97	14.04		
14.0	122.27	3.34		132.69	13.76		
16.0	122.31	3.38		132.44	13.51		
18.0	122.39	3.46		132.03	13.10		
20.0	122.44	3.51		131.79	12.86		
25.0	122.54	3.61		131.12	12.19		
30.0	122.69	3.76		130.67	11.74		
35.0	122.81	3.88		130.46	11.53		
40.0	122.92	3.99		129.73	10.80		
45.0	122.98	4.05		129.09	10.16		
50.0	123.06	4.13		128.61	9.68		
55.0	123.13	4.20		127.98	9.05		
60.0	123.21	4.28		127.37	8.44		

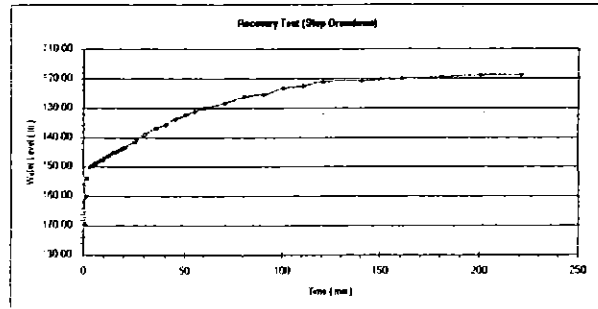
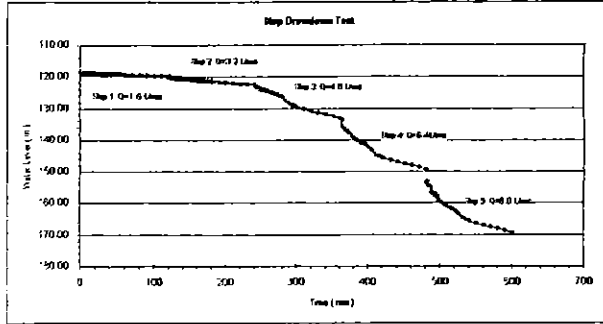
## Constant Discharge & Recovery Test (2/2)

Well Code: T-02/3      Site code: T-02      Site name: Bani Al Suror  
 District: Al Ma'afer      Governorate: Taiz

Duration ( min )	Constant Discharge Test			Recovery Test		Water Analysis	Remarks
	Water level (m)	Drawdown (m)	Pumping rate (l/sec)	Water level (m)	Residual (m)	Conductivity ( )	
70.0	123.31	4.38		126.59	7.66		
80.0	123.46	4.53		126.00	7.07		
90.0	123.56	4.63		125.71	6.78		
100.0	123.64	4.71		125.31	6.38		
110.0	123.78	4.85		125.18	6.25		
120.0	124.02	5.09		124.69	5.76		
140.0	124.32	5.39		124.28	5.35		
160.0	124.56	5.63		123.86	4.93		
180.0	124.77	5.84		123.52	4.59		
200.0	125.39	6.46		123.21	4.28		
220.0	126.20	7.27		122.94	4.01		
240.0	127.19	8.26		122.75	3.82		
280.0	128.62	9.69		122.36	3.43		
320.0	129.26	10.33		122.19	3.26		
360.0	129.78	10.85		121.89	2.96		
420.0	130.41	11.48		121.42	2.49		
480.0	131.26	12.33		121.20	2.27		
540.0	132.09	13.16		120.01	1.08		
600.0	132.19	13.26		119.82	0.89		
660.0	132.46	13.53		119.62	0.69		
720.0	132.77	13.84		119.44	0.51		
840.0	132.92	13.99		119.03	0.10		
960.0	133.13	14.20		118.93	0.00		
1080.0	134.70	15.77					
1200.0	136.74	17.81					
1320.0	139.46	20.53					
1440.0	140.04	21.11					

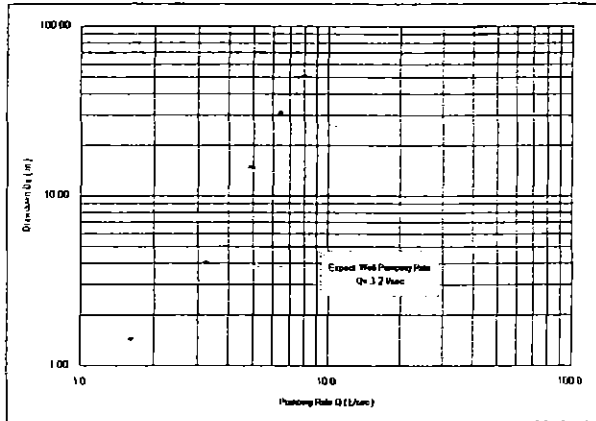
**Step Drawdown Test**

Well Code T-02/3  
 Site Name Flam A1 Stage  
 Site Code T-02  
 SWL 110.25 m



**Step Drawdown Test**

Well Code T-02/3  
 Site Name Flam A1 Stage  
 Site Code T-02  
 SWL 110.25 m

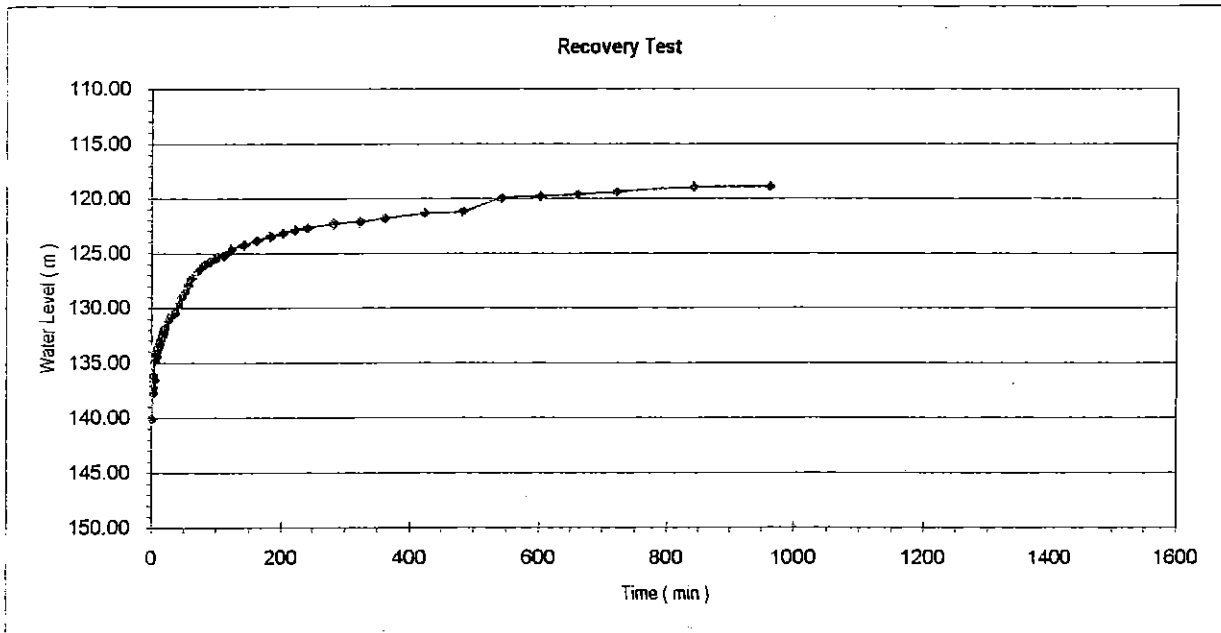
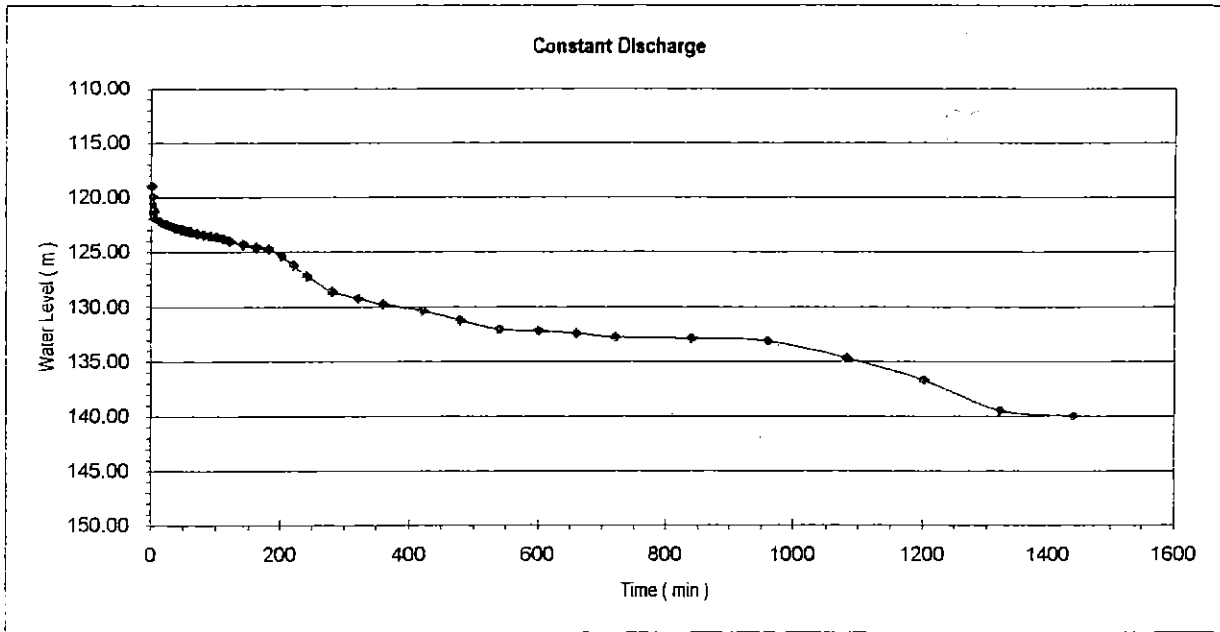


Step	Q (l/sec)	QWEL (m)	SL (m)
1	1.8	119.03	1.34
2	3.2	122.66	2.05
3	4.0	131.40	3.55
4	4.4	140.45	20.00
5	4.0	169.36	20.93

### Constant Discharge Test

Well Code: T-02/3  
Site Code: T-02  
S.W.L. (m): 118.93  
Yield (L/sec): 2.6

Site Name: Bani Al Suror  
D.W.L. (m): 140.04      Drawdown (m): 21.11



## Pumping Test Report Sheet

Well code: T-02/4 Site code: T-02 Site name: Bani Al Suror

District: Al Ma'afer Governorate: Taiz

Target water source: Existing projected deep well-Bir 4 Well depth: 190 m

Contractor: Abdukhaleg M. AL- Goli

Hydrogeologist in charge: Ali Abdullah Nagi AL- Gounaid

Operator: Mohammed Azeen / Abdulws'e Abdullah Ahmed

Date of start of the test: 14/7/2006 Date of end of the test: 29/8/2006

Pump type: Vertical pump Engine: Iveco aifo

Pump installation depth: 154 m Datum level: 0.68 m S.W.L.: G.L.-134.92 m

### Step drawdown test

Date/hour started: 14-7-2006-6:25pm Date/hour finished: 15-7-2006-8:05am Total hours: 13:40

Yield (l/sec): 1<sup>st</sup> step 1.70 2<sup>nd</sup> step 3.40 3<sup>rd</sup> step 5.10 4<sup>th</sup> step 6.80 5<sup>th</sup> step 8.50

Water level before start the test (G.L.-m): 134.92

Water level after end of 5<sup>th</sup> step (G.L.-m): 137.91

Water level after recovery (G.L.-m): 134.97 Recovery hours: 3:40

### Constant discharge test

Date/hour started: 28-8-2006-5:00pm Date/hour finished: 29-8-2006-6:20pm Total hours: 25:20

Yield (l/sec): 5.40

Water level before start of the test (G.L.-m): 137.23

Water level after end of test (G.L.-m): 139.48

Water level after recovery (G.L.-m): 137.23 Recovery hours: 1:20

Drawdown (m): 2.25

Revised by:

Name :

Date:

## Step Drawdown Test

Well Code: T-02/4      Site code: T-02      Pump on date/hour: 14-7-2006-6:25pm  
 Site name: Bani Al Suror      Pump off date/hour: 15-7-2006-4:25am  
 District: Al Ma'afer      End of recovery hour: 15-7-2006-8:05am  
 Governorate: Taiz      S.W.L ( m ): 135.60

Contractor: Abdulkhaleg M. AL- Goli  
 Hydrogeologist: Ali Abdullah Nagi AL- Gounaid  
 Operator: Mohammed Azeen / Abdulws'e Abdullah Ahmed

Duration (min)	1st Step		2nd Step		3rd Step		4th Step		5th Step		Recovery (m)
	W.L. (m)	Yield (l/sec)	W.L. (m)	Yield (l/sec)	W.L. (m)	Yield (l/sec)	W.L. (m)	Yield (l/sec)	W.L. (m)	Yield (l/sec)	
0.0	135.60	1.60	136.20	3.20	136.83	4.80	137.30	6.40	137.87	8.00	138.59
0.5	135.60		136.70		137.20		137.40		138.40		138.16
1.0	135.88		136.80		137.30		137.65		138.42		138.10
1.5	136.40		136.75		137.25		137.68		138.45		137.94
2.0	136.30		136.75		137.25		137.70		138.46		137.61
2.5	136.30		136.80		137.30		137.75		138.47		137.43
3.0	136.30		136.80		137.30		137.80		138.47		137.15
3.5	136.30		136.80		137.30		137.80		138.47		137.00
4.0	136.30		136.80		137.30		137.80		138.48		136.91
4.5	136.15		136.85		137.30		137.80		138.48		136.79
5.0	136.15		136.85		137.35		137.80		138.48		136.63
6.0	136.15		136.80		137.35		137.80		138.48		136.54
7.0	136.15		136.80		137.37		137.80		138.48		136.38
8.0	136.25		136.80		137.38		137.80		138.48		136.26
9.0	136.25		136.80		137.38		137.81		138.48		136.20
10.0	136.25		136.80		137.37		137.81		138.48		136.19
12.0	136.20		136.80		137.28		137.81		138.50		136.11
14.0	136.20		136.80		137.26		137.81		138.50		136.07
16.0	136.20		136.80		137.26		137.81		138.50		136.00
18.0	136.20		136.80		137.26		137.81		138.50		135.90
20.0	136.20		136.80		137.26		137.81		138.50		135.90
25.0	136.20		136.85		137.26		137.81		138.50		135.90
30.0	136.20		136.85		137.27		137.81		138.52		135.90
35.0	136.20		136.85		137.27		137.81		138.52		135.90
40.0	136.20		136.80		137.27		137.82		138.53		135.90
45.0	136.20		136.87		137.28		137.82		138.54		135.85
50.0	136.20		136.90		137.29		137.83		138.54		135.85
55.0	136.20		136.90		137.30		137.83		138.55		135.85
60.0	136.20		136.90		137.30		137.83		138.55		135.85
70.0	136.20		136.90		137.30		137.84		138.56		135.85
80.0	136.20		136.90		137.31		137.85		138.57		135.85
90.0	136.20		136.85		137.30		137.86		138.57		135.85
100.0	136.20		136.82		137.30		137.87		138.58		135.85
110.0	136.21		136.83		137.30		137.87		138.58		135.85
120.0	136.20		136.83		137.30		137.87		138.59		135.65
140.0											135.60
160.0											135.65
180.0											135.65
200.0											135.65
220.0											135.65

## Constant Discharge & Recovery Test (1/2)

Well Code: T-02/4 Site code: T-02

Site name: Bani Al Suror

Pump on date/hour: 28-8-2006-5:00pm

District: Al Ma'afer

Pump off date/hour: 29-8-2006-5:00pm

Governorate: Taiz

End of recovery hour: 29-8-2006-6:20pm

Contractor: Abdulkhaleg M. AL- Goli

S.W.L ( m ): 137.91

Hydrogeologist: Ali Abdullah Nagi AL- Gounaid

D.W.L ( m ): 140.16

Operator: Mohammed Azeen / Abdulws'e Abdullah Ahmed

Yield (l/sec): 5.4

Duration ( min )	Constant Dischrge Test			Recovery Test		Water Analysis	Remarks
	Water level (m)	Drawdown (m)	Pumping rate (l/sec)	Water level (m)	Residual (m)	Conductivity ( )	
0.0	137.91	0.00		140.16	2.25		
0.5	138.85	0.94		139.35	1.44		
1.0	138.92	1.01		138.98	1.07		
1.5	138.98	1.07		138.66	0.75		
2.0	139.10	1.19		138.54	0.63		
2.5	139.22	1.31		138.45	0.54		
3.0	139.29	1.38		138.37	0.46		
3.5	139.36	1.45		138.32	0.41		
4.0	139.48	1.57		138.27	0.36		
4.5	139.54	1.63		138.23	0.32		
5.0	139.59	1.68		138.20	0.29		
6.0	139.64	1.73		138.18	0.27		
7.0	139.65	1.74		138.16	0.25		
8.0	139.66	1.75		138.14	0.23		
9.0	139.69	1.78		138.12	0.21		
10.0	139.70	1.79		138.10	0.19		
12.0	139.71	1.80		138.08	0.17		
14.0	139.72	1.81		138.06	0.15		
16.0	139.73	1.82		138.04	0.13		
18.0	139.74	1.83		138.03	0.12		
20.0	139.75	1.84		138.02	0.11		
25.0	139.76	1.85		138.00	0.09		
30.0	139.76	1.85		137.98	0.07		
35.0	139.78	1.87		137.97	0.06		
40.0	139.78	1.87		137.96	0.05		
45.0	139.79	1.88		137.95	0.04		
50.0	139.79	1.88		137.94	0.03		
55.0	139.80	1.89		137.93	0.02		
60.0	139.80	1.89		137.92	0.01		

## Constant Discharge & Recovery Test (2/2)

Well Code: T-02/4      Site code: T-02      Site name: Bani Al Suror  
 District: Al Ma'afer      Governorate: Taiz

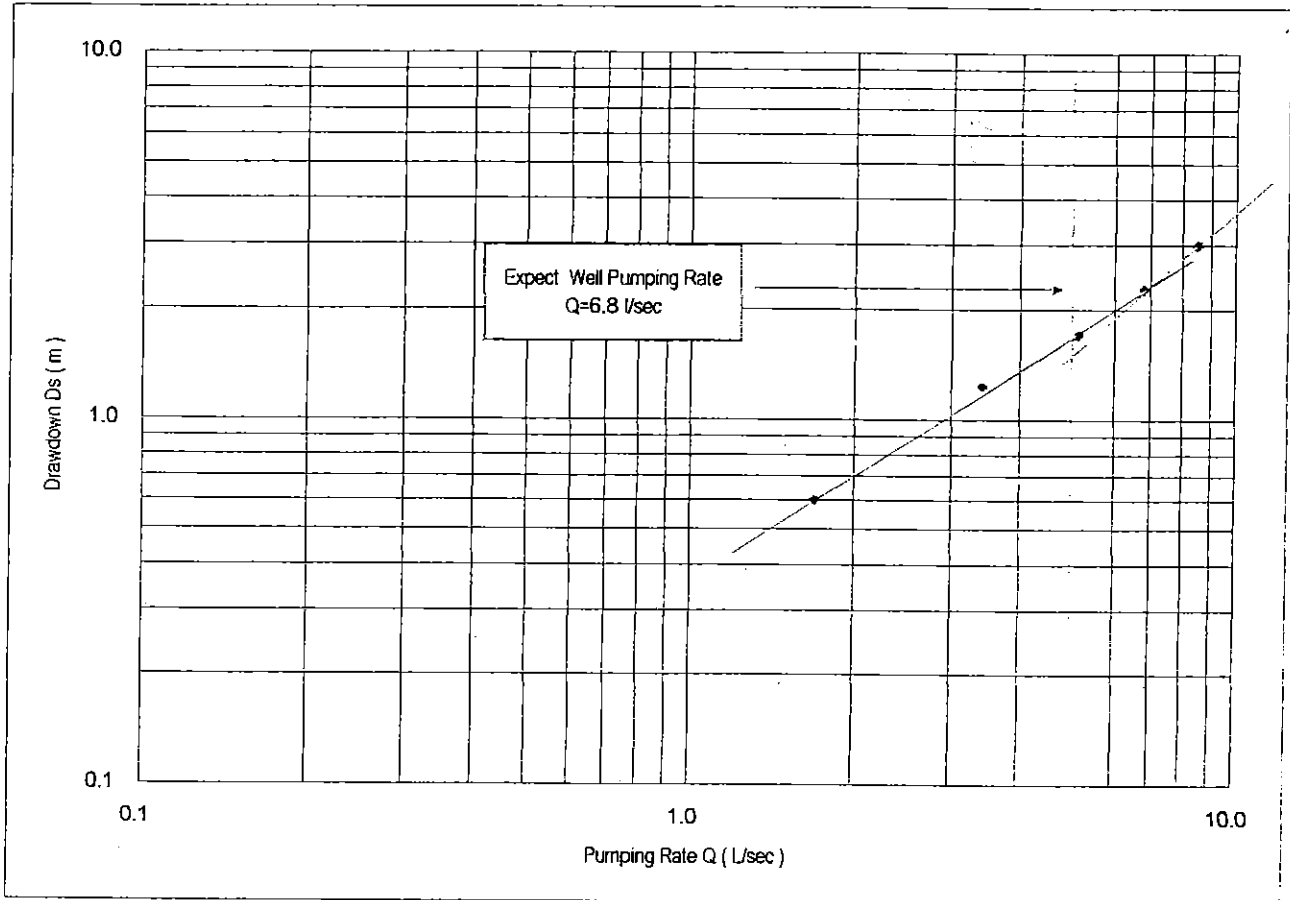
Duration ( min )	Constant Discharge Test			Recovery Test		Water Analysis	Remarks
	Water level (m)	Drawdown (m)	Pumping rate (l/sec)	Water level (m)	Residual (m)	Conductivity ( )	
70.0	139.80	1.89		137.92	0.01		
80.0	139.81	1.90		137.91	0.00		
90.0	139.82	1.91					
100.0	139.83	1.92					
110.0	139.84	1.93					
120.0	139.85	1.94					
140.0	139.86	1.95					
160.0	139.87	1.96					
180.0	139.89	1.98					
200.0	139.90	1.99					
220.0	139.92	2.01					
240.0	139.94	2.03					
280.0	139.96	2.05					
320.0	139.98	2.07					
360.0	139.99	2.08					
420.0	140.01	2.10					
480.0	140.02	2.11					
540.0	140.04	2.13					
600.0	140.06	2.15					
660.0	140.06	2.15					
720.0	140.10	2.19					
840.0	140.14	2.23					
960.0	140.16	2.25					
1080.0	140.16	2.25					
1200.0	140.16	2.25					
1320.0	140.16	2.25					
1440.0	140.16	2.25					



## Step Drawdown Test

Well Code: T-02/4  
 Site Code: T-02  
 S.W.L.: 135.60 m

Site Name: Bani Al Suror

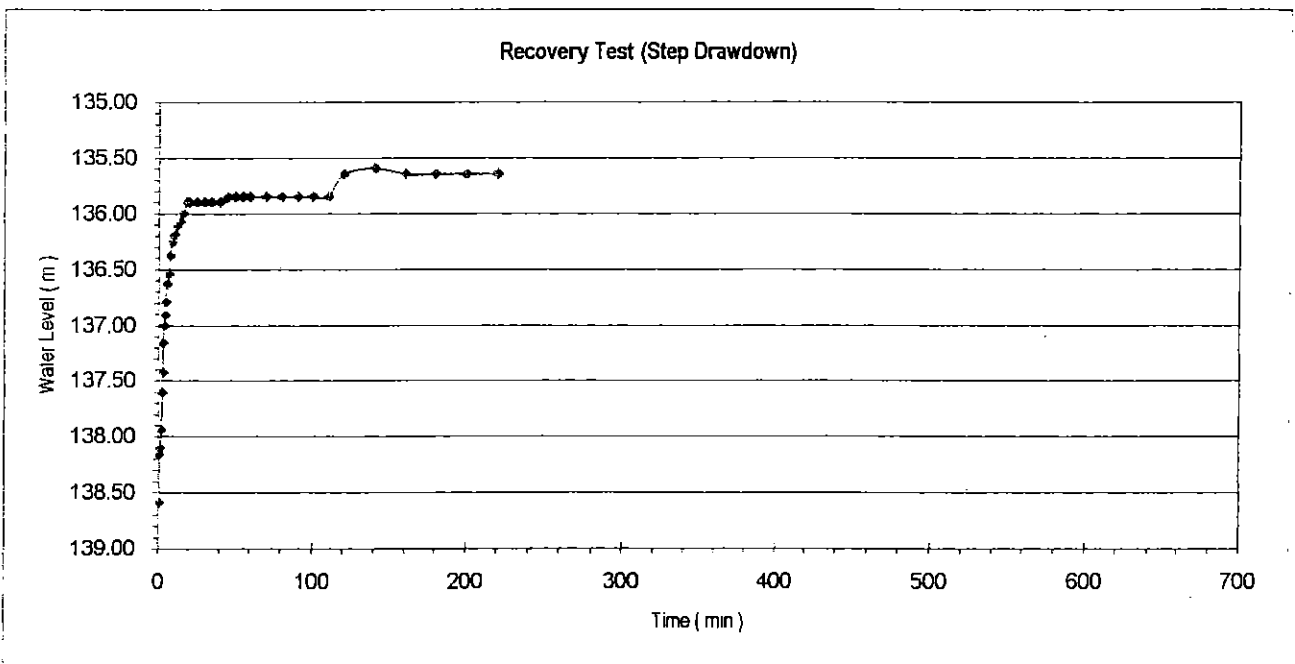
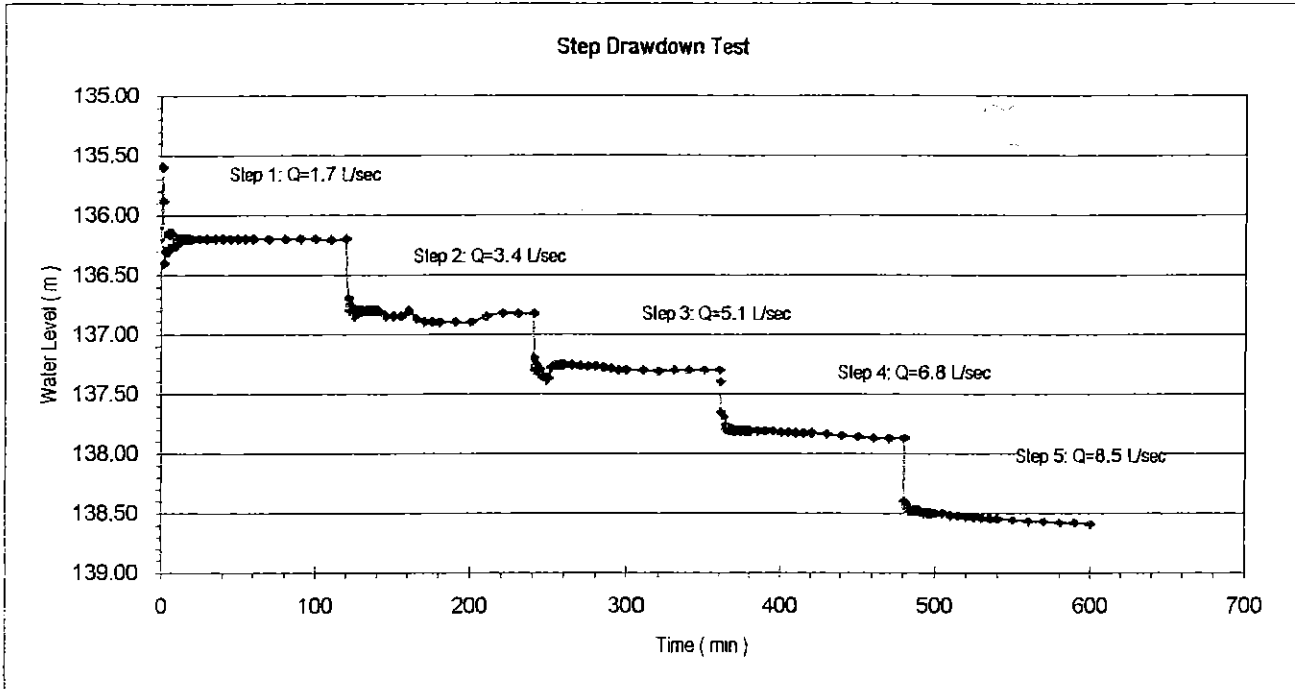


Step	Q (l/sec)	D.W.L.(m)	Ds (m)
1	1.7	136.20	0.60
2	3.4	136.83	1.23
3	5.1	137.30	1.70
4	6.8	137.87	2.27
5	8.5	138.59	2.99

# Step Drawdown Test

Well Code: T-02/4  
Site Code: T-02  
S.W.L. : 135.60 m

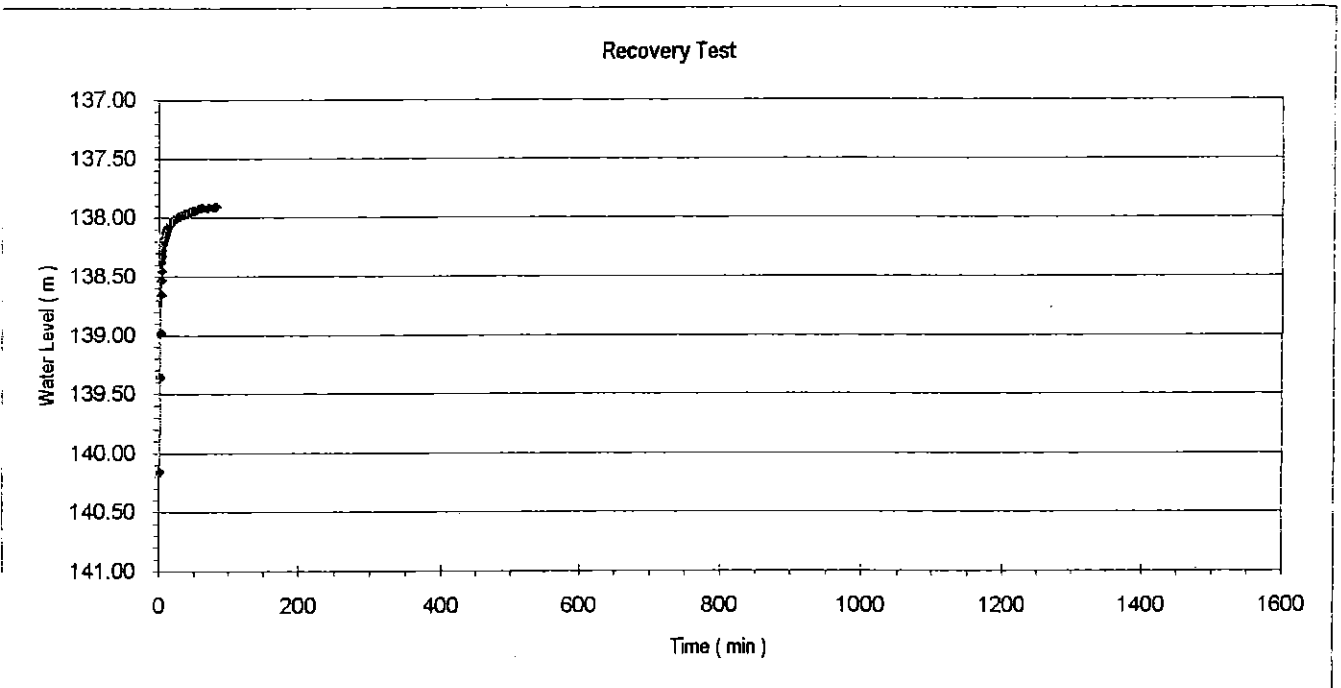
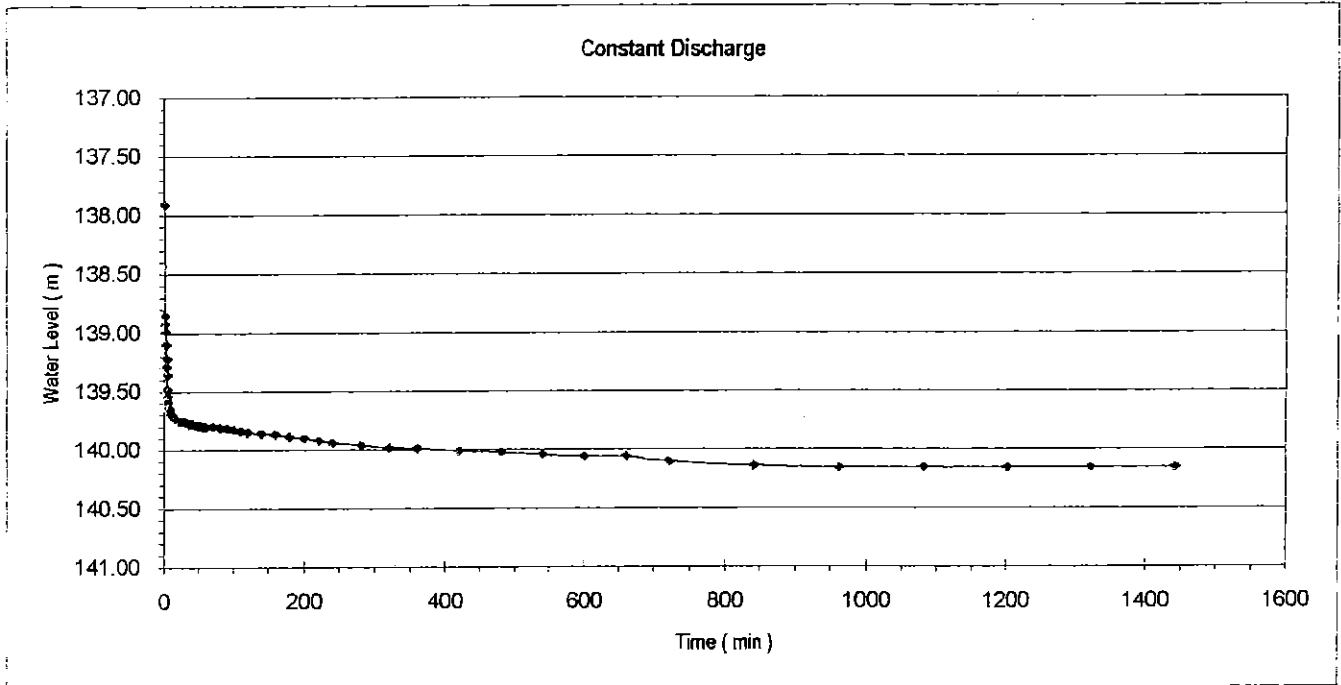
Site Name: Bani Al Suror



# Constant Discharge Test

Well Code: T-02/4  
Site Code: T-02  
S.W.L. (m): 137.91  
Yield (L/sec): 5.4

Site Name: Bani Al Suror  
D.W.L. (m): 140.16      Drawdown (m): 2.25



## Pumping Test Report Sheet

Well code: T-03/1 Site code: T-03 Site name: Sheb Humran  
District: Al Ma'afer Governorate: Taiz

Target water source: New projected deep well-Al Jah (1) Well depth: 400 m

Contractor: Abdulkhaleg M. AL- Goli  
Hydrogeologist in charge: Ali Abdullah Nagi AL- Gounaid  
Operator: Bulal

Date of start of the test: 2/7/2006 Date of end of the test: 8/7/2006  
Pump type: Vertical pump Engine: Iveco aifo  
Pump installation depth: 284 m Datum level: 0.28 m S.W.L.: G.L.-22.22 m

### Step drawdown test

Date/hour started: 5-7-2006-5:30am Date/hour finished: 5-7-2006-11:50pm Total hours: 18:20  
Yield (l/sec): 1<sup>st</sup> step 1.60 2<sup>nd</sup> step 3.20 3<sup>rd</sup> step 4.80 4<sup>th</sup> step 6.40 5<sup>th</sup> step 8.00  
Water level before start the test (G.L.-m): 22.22  
Water level after end of 5<sup>th</sup> step (G.L.-m): 50.40  
Water level after recovery (G.L.-m): 22.90 Recovery hours: 8:20

### Constant discharge test

Date/hour started: 8-7-2006-10:00am Date/hour finished: 9-7-2006-6:00pm Total hours: 32:00  
Yield (l/sec): 4.00  
Water level before start of the test (G.L.-m): 22.53  
Water level after end of test (G.L.-m): 44.82  
Water level after recovery (G.L.-m): 22.53 Recovery hours: 8:00  
Drawdown (m): 22.29

Revised by:

Name :

Date:

## Step Drawdown Test (1/2)

Well Code: T-03/1      Site code: T-03      Pump on date/hour: 5-7-2006-5:30am  
 Site name: Sheb Humran      Pump off date/hour: 5-7-2006-3:30pm  
 District: Al Ma'afer      End of recovery hour: 5-7-2006-11:50pm  
 Governorate: Taiz      S.W.L ( m ): 22.50

Contractor: Abdulkhaleg M. AL- Goli  
 Hydrogeologist: Ali Abdullah Nagi AL- Gounaid  
 Operator: Bulal

Duration ( min )	1st Step		2nd Step		3rd Step		4th Step		5th Step		Recovery ( m )
	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	
0.0	22.50	2.20	29.66	3.60	36.38	5.10	42.40	6.60	47.65	8.00	50.68
0.5	23.57		29.80		36.91		42.52		47.68		50.40
1.0	23.80		30.05		37.05		42.56		47.74		50.38
1.5	23.95		30.15		37.15		42.63		47.80		50.36
2.0	24.40		30.28		37.25		42.70		47.84		50.35
2.5	24.30		30.35		37.35		42.80		47.88		50.33
3.0	24.48		30.46		37.45		42.83		47.96		50.31
3.5	24.63		30.55		37.54		42.90		48.01		50.28
4.0	24.75		30.64		37.60		42.95		48.06		50.26
4.5	24.90		30.69		37.69		42.99		48.10		50.22
5.0	25.50		30.71		37.69		43.04		48.12		50.20
6.0	25.30		30.79		37.70		43.12		48.13		50.16
7.0	25.45		30.86		37.81		43.22		48.13		50.11
8.0	25.60		30.92		37.92		43.29		48.18		50.05
9.0	25.70		31.00		38.05		43.35		48.22		50.00
10.0	25.85		31.16		38.16		43.45		48.25		49.94
12.0	26.09		31.55		38.37		43.54		48.30		49.85
14.0	26.32		31.82		38.55		43.69		48.34		49.78
16.0	26.50		32.50		38.72		43.82		48.50		49.68
18.0	26.70		32.32		38.85		43.95		48.52		49.58
20.0	26.82		32.49		39.04		44.04		48.60		49.48
25.0	27.17		32.92		39.40		44.30		48.78		49.27
30.0	27.45		33.25		39.73		44.56		48.92		48.03
35.0	27.70		33.55		40.02		44.87		49.10		48.78
40.0	27.90		33.80		40.36		45.06		49.22		48.55
45.0	28.04		34.16		40.55		45.28		49.36		48.33
50.0	28.20		34.32		40.80		45.45		49.50		48.06
55.0	28.34		34.55		40.94		45.68		49.67		47.89
60.0	28.50		34.73		41.05		45.85		49.80		46.65
70.0	28.85		35.08		41.30		46.20		50.00		46.82
80.0	29.10		35.40		41.54		46.58		50.38		45.97
90.0	29.30		35.72		41.75		46.86		50.50		45.82
100.0	29.45		35.98		41.98		47.20		50.65		44.35
110.0	29.57		36.25		42.21		47.42		50.68		44.78
120.0	29.66		36.38		42.40		47.65		50.68		44.11
140.0											42.52
160.0											39.95
180.0											39.20
200.0											37.27
220.0											35.31



## Constant Discharge & Recovery Test (1/2)

Well Code: T-03/1 Site code: T-03

Site name: Sheb Humran

Pump on date/hour: 8-7-2006-10:00am

District: Al Ma'afer

Pump off date/hour: 9-7-2006-10:00am

Governorate: Taiz

End of recovery hour: 9-7-2006-6:00pm

Contractor: Abdulkhaleg M. AL- Goli

S.W.L ( m ): 22.81

Hydrogeologist: Ali Abdullah Nagi AL- Gounaid

D.W.L ( m ): 45.10

Operator: Bulal

Yield (l/sec): 4.0

Duration ( min )	Constant Discharge Test			Recovery Test		Water Analysis	Remarks
	Water level (m)	Drawdown (m)	Pumping rate (l/sec)	Water level (m)	Residual (m)	Conductivity ( )	
0.0	22.81	0.00		45.10	22.29		
0.5	23.47	0.66		45.05	22.24		
1.0	23.43	0.62		45.00	22.19		
1.5	24.25	1.44		44.94	22.13		
2.0	24.68	1.87		44.90	22.09		
2.5	24.90	2.09		44.88	22.07		
3.0	25.06	2.25		44.85	22.04		
3.5	25.15	2.34		44.83	22.02		
4.0	25.30	2.49		44.80	21.99		
4.5	25.45	2.64		44.79	21.98		
5.0	25.60	2.79		44.76	21.95		
6.0	25.75	2.94		44.74	21.93		
7.0	25.86	3.05		44.68	21.87		
8.0	26.00	3.19		44.62	21.81		
9.0	26.10	3.29		44.60	21.79		
10.0	26.20	3.39		44.52	21.71		
12.0	26.32	3.51		44.38	21.57		
14.0	26.52	3.71		44.31	21.50		
16.0	26.74	3.93		44.20	21.39		
18.0	27.20	4.39		44.10	21.29		
20.0	27.48	4.67		44.00	21.19		
25.0	28.12	5.31		43.74	20.93		
30.0	28.58	5.77		43.50	20.69		
35.0	29.06	6.25		43.24	20.43		
40.0	29.38	6.57		42.99	20.18		
45.0	29.90	7.09		42.60	19.79		
50.0	30.30	7.49		42.32	19.51		
55.0	30.60	7.79		42.03	19.22		
60.0	30.95	8.14		41.75	18.94		

## Constant Discharge & Recovery Test (2/2)

Well Code: T-03/1      Site code: T-03      Site name: Sheb Humran  
 District: Al Ma'afer      Governorate: Taiz

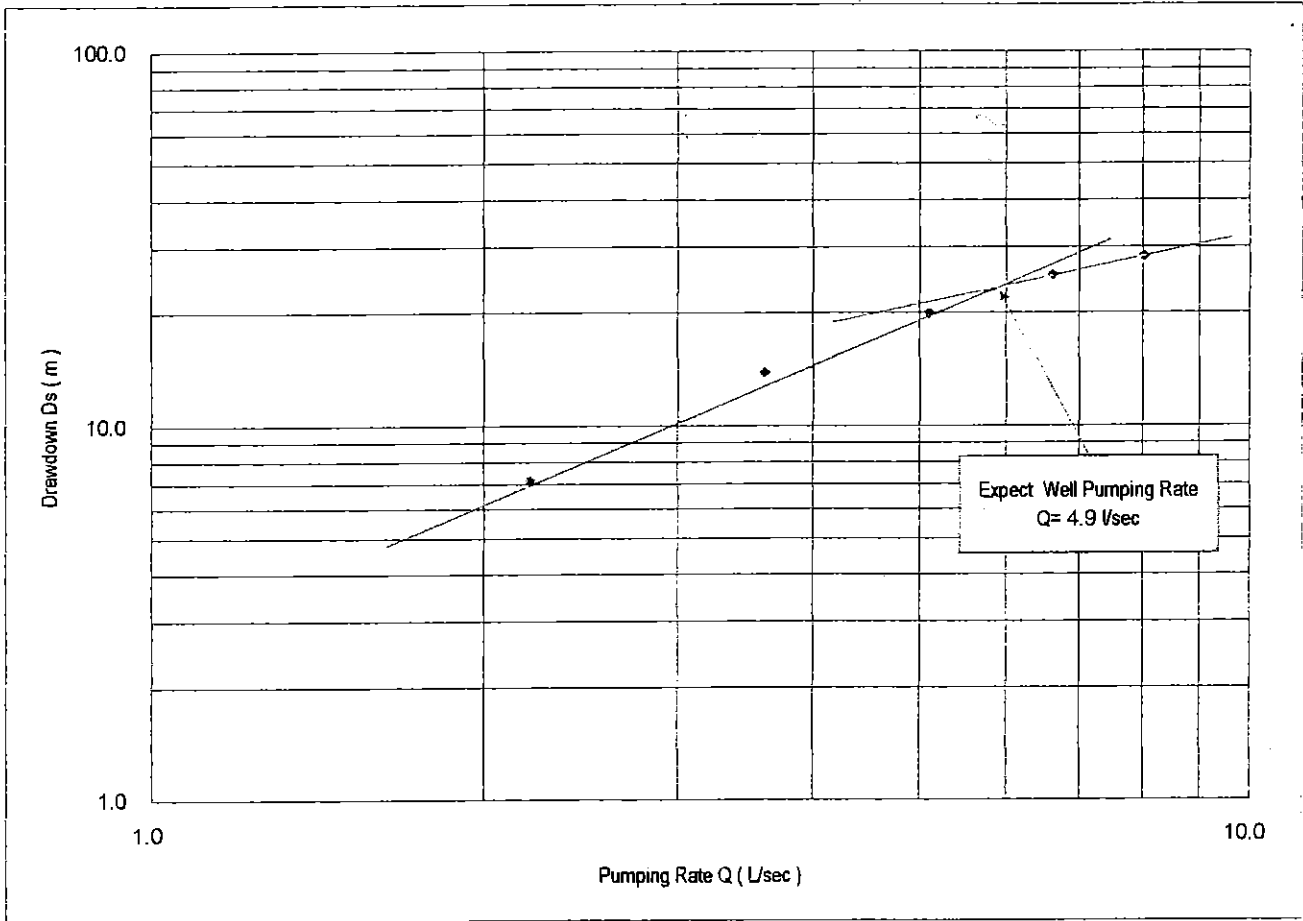
Duration ( min )	Constant Discharge Test			Recovery Test		Water Analysis	Remarks
	Water level (m)	Drawdown (m)	Pumping rate (l/sec)	Water level (m)	Residual (m)	Conductivity ( )	
70.0	31.40	8.59		41.14	18.33		
80.0	31.98	9.17		40.50	17.69		
90.0	32.40	9.59		39.96	17.15		
100.0	32.80	9.99		39.30	16.49		
110.0	33.34	10.53		38.36	15.55		
120.0	33.86	11.05		37.80	14.99		
140.0	34.75	11.94		36.25	13.44		
160.0	35.38	12.57		35.25	12.44		
180.0	35.60	12.79		34.02	11.21		
200.0	36.85	14.04		32.50	9.69		
220.0	37.11	14.30		31.40	8.59		
240.0	37.60	14.79		30.60	7.79		
280.0	38.52	15.71		28.20	5.39		
320.0	39.38	16.57		26.40	3.59		
360.0	39.57	16.76		25.20	2.39		
420.0	40.18	17.37		23.20	0.39		
480.0	40.93	18.12		22.81	0.00		
540.0	41.65	18.84					
600.0	42.27	19.46					
660.0	42.71	19.90					
720.0	43.12	20.31					
840.0	43.75	20.94					
960.0	44.15	21.34					
1080.0	44.63	21.82					
1200.0	44.75	21.94					
1320.0	44.95	22.14					
1440.0	45.10	22.29					



## Step Drawdown Test

Well Code: T-03/1  
 Site Code: T-03  
 S.W.L.: 22.50 m

Site Name: Sheb Humran

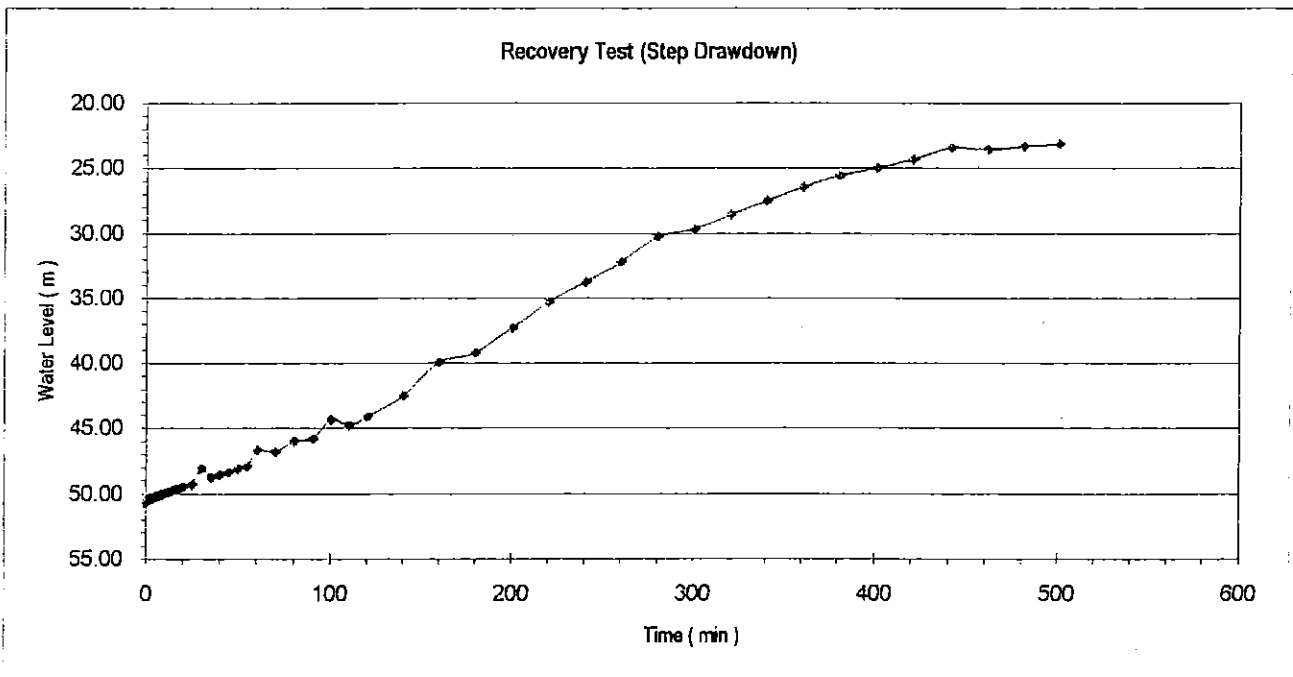
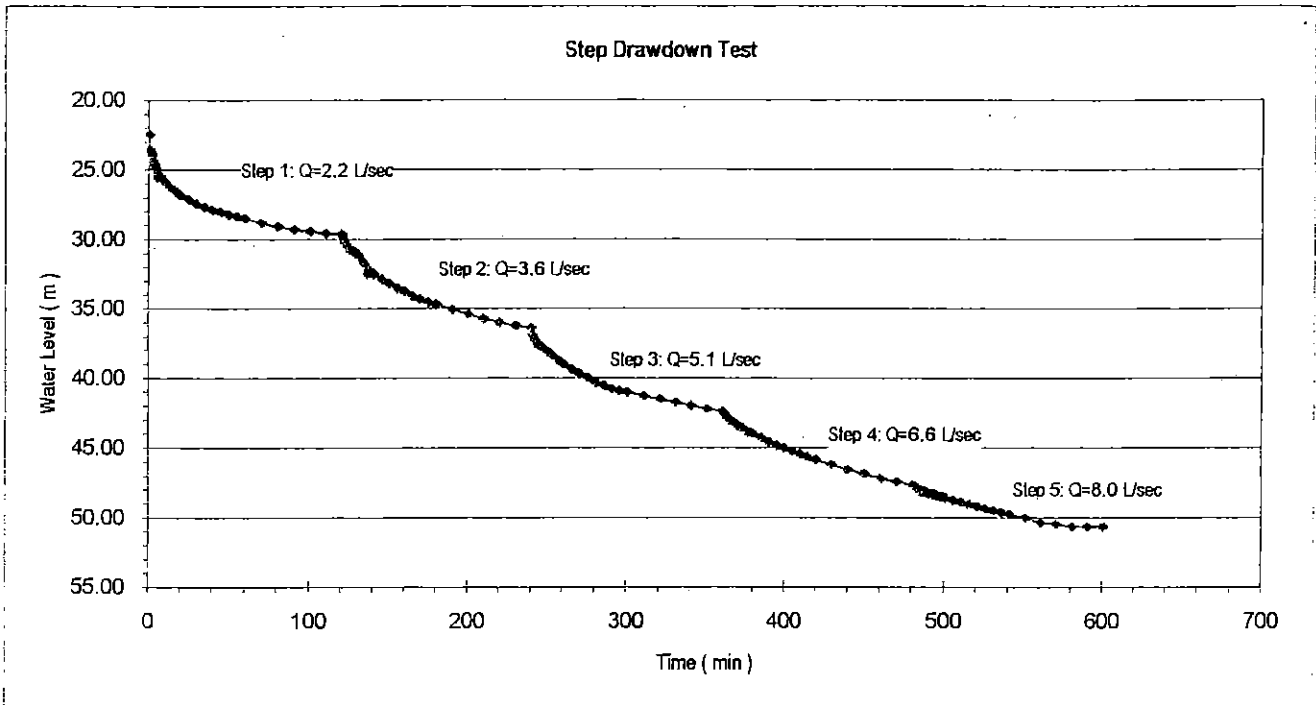


Step	$Q$ (l/sec)	D.W.L. (m)	$D_s$ (m)
1	2.2	29.66	7.16
2	3.6	36.38	13.88
3	5.1	42.40	19.90
4	6.6	47.65	25.15
5	8.0	50.68	28.18

# Step Drawdown Test

Well Code: T-03/1  
Site Code: T-03  
S.W.L.: 22.50 m

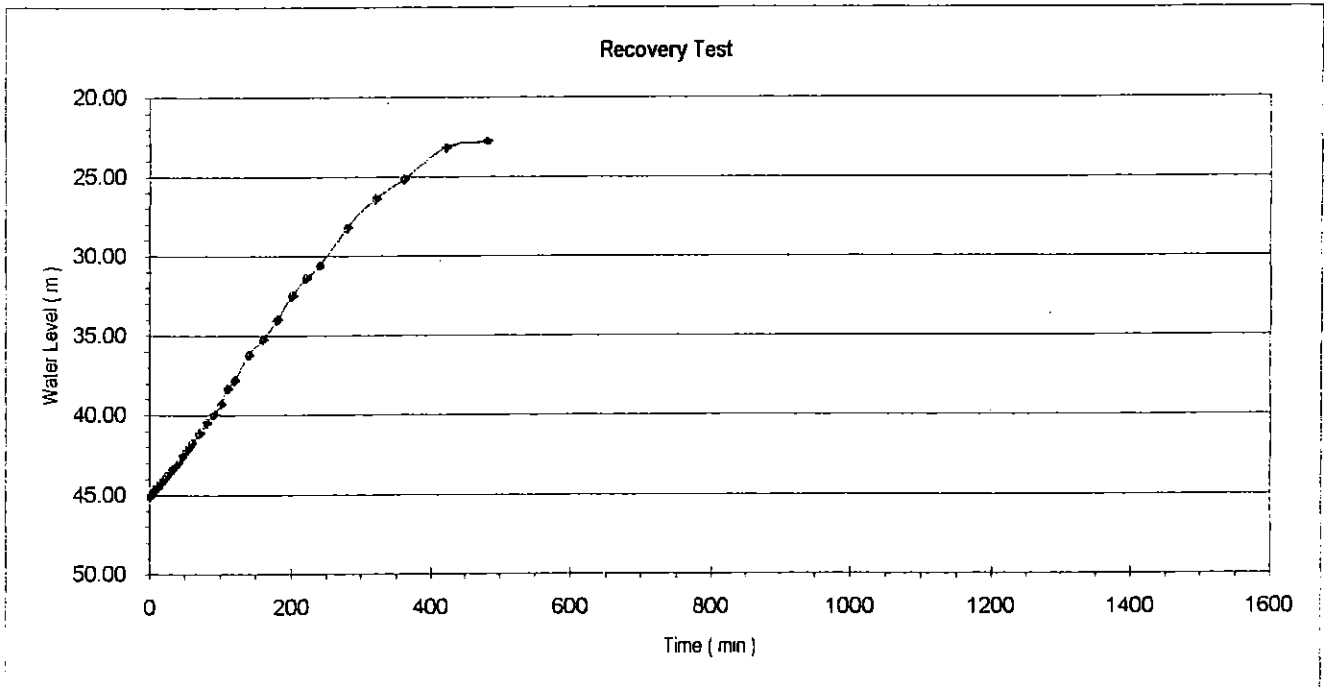
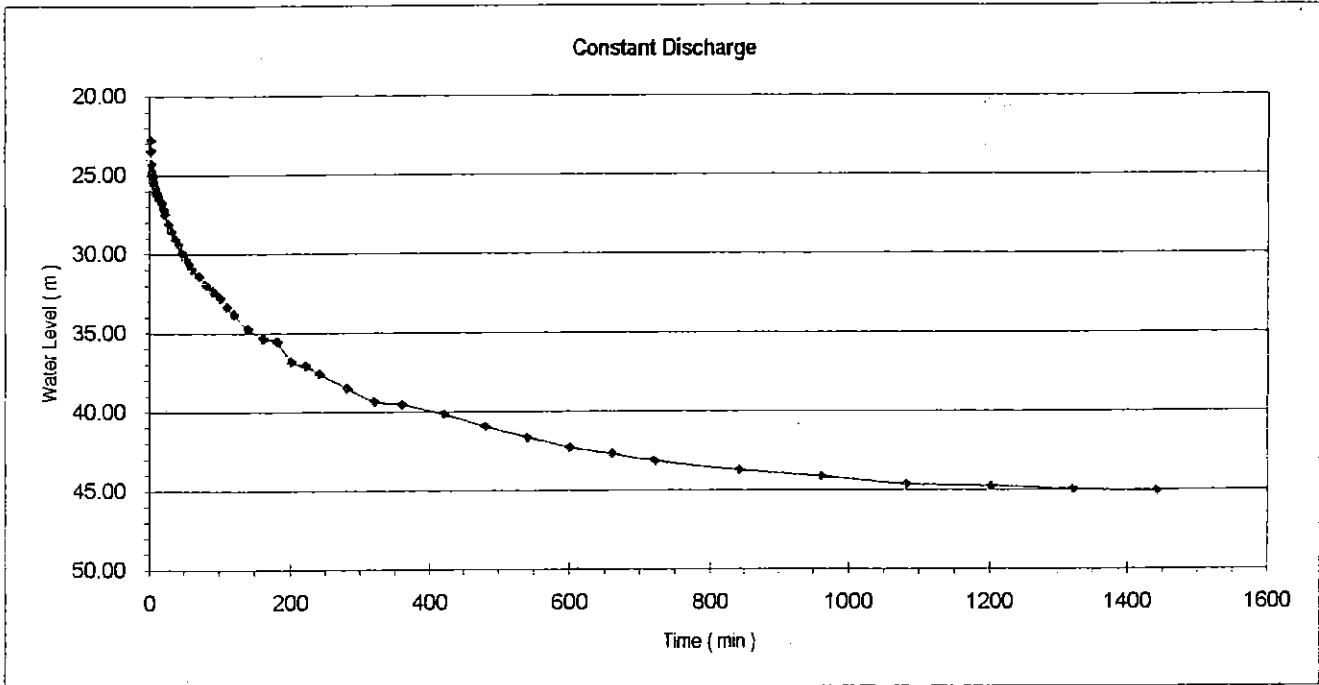
Site Name: Shob Humran



# Constant Discharge Test

Well Code: T-03/1  
Site Code: T-03  
S.W.L. (m): 22.81  
Yield (L/sec): 4.0

Site Name: Sheb Humran  
D.W.L. (m): 45.10 Drawdown (m): 22.29



## Pumping Test Report Sheet

Well code: T-03/4 Site code: T-03 Site name: Sheb Humran

District: Al Ma'afer Governorate: Taiz

Target water source: Existing projected deep well Well depth: 230 m  
Al Meashaar(4)

Contractor: Abdulkhaleg M. AL-Goli

Hydrogeologist in charge: Ali Abdullah Nagi AL- Gounaid

Operator: Bulal

Date of start of the test: 10/07/2006 Date of end of the test: 14/07/2006

Pump type: Vertical pump Engine: Iveco aifo

Pump installation depth: 184 m Datum level: 0.53 m S.W.L.: G.L.-24.19 m

### Step drawdown test

Date/hour started: 11-7-2006-5:50am Date/hour finished: 12-7-2006-8:30am Total hours: 26:40

Yield (l/sec): 1<sup>st</sup> step 2.20 2<sup>nd</sup> step 3.30 3<sup>rd</sup> step 4.40 4<sup>th</sup> step 5.50 5<sup>th</sup> step 6.60

Water level before start the test (G.L.-m): 24.27

Water level after end of 5<sup>th</sup> step (G.L.-m): 43.72

Water level after recovery (G.L.-m): 24.42 Recovery hours: 16:40

### Constant discharge test

Date/hour started: 12-7-2006-8:50am Date/hour finished: 14-7-2006-8:50am Total hours: 48:00

Yield (l/sec): 4.20

Water level before start of the test (G.L.-m): 24.44

Water level after end of test (G.L.-m): 28.46

Water level after recovery (G.L.-m): 24.44 Recovery hours: 24:00

Drawdown (m): 4.02

Revised by:

Name :

Date:



## Step Drawdown Test

Well Code: T-03/4      Site code: T-03      Pump on date/hour: 11-7-2006-5:50am  
 Site name: Sheb Humran      Pump off date/hour: 11-7-2006-3:50pm  
 District: Al Ma'afer      End of recovery hour: 12-7-2006-8:30am  
 Governorate: Taiz      S.W.L ( m ): 24.80

Contractor: Abdulkhaleg M. AL- Goli  
 Hydrogeologist: Ali Abdullah Nagi AL- Gounaid  
 Operator: Bulal

Duration ( min )	1st Step		2nd Step		3rd Step		4th Step		5th Step		Recovery ( m )
	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	
0.0	24.80		25.92		26.57		27.19		28.75		44.25
0.5	25.34		26.03		26.63		27.23		29.06		39.20
1.0	25.48		26.07		26.70		27.42		29.26		35.42
1.5	25.50		26.12		26.78		27.58		29.70		32.70
2.0	25.55		26.20		26.81		27.76		29.98		31.35
2.5	25.58		26.30		26.86		27.88		30.54		31.00
3.0	25.60		26.30		26.91		27.94		31.00		29.30
3.5	25.66		26.30		26.93		27.99		31.10		28.30
4.0	25.70		26.30		26.98		28.04		31.18		27.40
4.5	25.73		26.36		27.00		28.08		31.28		26.90
5.0	25.76		26.40		27.02		28.14		31.35		26.55
6.0	25.78		26.45		27.02		28.20		31.40		26.10
7.0	25.80		26.46		27.05		28.27		31.72		25.73
8.0	25.82		26.46		27.10		28.32		32.58		25.55
9.0	25.82		26.46		27.08		28.37		33.28		25.50
10.0	25.82		26.48		27.05		28.42		33.68		25.45
12.0	25.82		26.48		27.08		28.50		34.77		25.36
14.0	25.82		26.48		27.09		28.55		35.30		25.35
16.0	25.82		26.49		27.10		28.53		35.70		25.35
18.0	25.82		26.50		27.10		28.53		36.06		25.32
20.0	25.85		26.50		27.10		28.56		36.74		25.29
25.0	25.88		26.50		27.10		28.57		38.40		25.28
30.0	25.88		26.51		27.10		28.64		39.15		25.25
35.0	25.88		26.51		27.10		28.67		39.30		25.24
40.0	25.88		26.51		27.10		28.70		39.42		25.23
45.0	25.88		26.52		27.10		28.72		39.60		25.19
50.0	25.88		26.53		27.11		28.73		40.04		25.18
55.0	25.88		26.54		27.11		28.73		40.70		25.17
60.0	25.88		26.54		27.12		28.74		40.90		25.17
70.0	25.88		26.56		27.12		28.74		41.50		25.17
80.0	25.88		26.56		27.14		28.75		42.70		25.15
90.0	25.90		26.56		27.16		28.75		43.18		25.14
100.0	25.92		26.56		27.17		28.75		43.95		25.13
110.0	25.92		26.56		27.18		28.75		44.10		25.12
120.0	25.92		26.57		27.19		28.75		44.25		25.10
140.0											25.09
1000.0											24.95

## Constant Discharge & Recovery Test (1/2)

Well Code: T-03/4 Site code: T-03

Site name: Sheb Humran

Pump on date/hour: 12-7-2006-8:50am

District: Al Ma'afer

Pump off date/hour: 13-7-2006-8:50am

Governorate: Taiz

End of recovery hour: 14-7-2006-8:50am

Contractor: Abdulkhaleg M. AL- Goli

S.W.L ( m ) : 24.95

Hydrogeologist: Ali Abdullah Nagi AL- Gounaid

D.W.L ( m ) : 28.99

Operator: Bulal

Yield (l/sec): 4.2

Duration ( min )	Constant Discharge Test			Recovery Test		Water Analysis	Remarks
	Water level (m)	Drawdown (m)	Pumping rate (l/sec)	Water level (m)	Residual (m)	Conductivity ( )	
0.0	24.95	0.00		28.99	4.04		
0.5	25.60	0.65		28.40	3.45		
1.0	26.25	1.30		26.70	1.75		
1.5	26.35	1.40		26.45	1.50		
2.0	26.48	1.53		26.25	1.30		
2.5	26.52	1.57		26.10	1.15		
3.0	26.59	1.64		26.00	1.05		
3.5	26.69	1.74		25.90	0.95		
4.0	26.82	1.87		25.96	1.01		
4.5	27.00	2.05		25.85	0.90		
5.0	27.23	2.28		25.80	0.85		
6.0	27.35	2.40		25.77	0.82		
7.0	27.43	2.48		25.77	0.82		
8.0	27.58	2.63		25.74	0.79		
9.0	27.67	2.72		25.70	0.75		
10.0	27.72	2.77		25.70	0.75		
12.0	27.80	2.85		25.69	0.74		
14.0	27.84	2.89		25.68	0.73		
16.0	27.87	2.92		25.67	0.72		
18.0	27.90	2.95		25.65	0.70		
20.0	27.91	2.96		25.62	0.67		
25.0	27.92	2.97		25.62	0.67		
30.0	27.98	3.03		25.60	0.65		
35.0	27.98	3.03		25.58	0.63		
40.0	28.00	3.05		25.58	0.63		
45.0	28.02	3.07		25.58	0.63		
50.0	28.02	3.07		25.58	0.63		
55.0	28.03	3.08		25.57	0.62		
60.0	28.03	3.08		25.56	0.61		

## Constant Discharge & Recovery Test (2/2)

Well Code: T-03/4      Site code: T-03      Site name: Sheb Humran  
 District: Al Ma'afer      Governorate Taiz

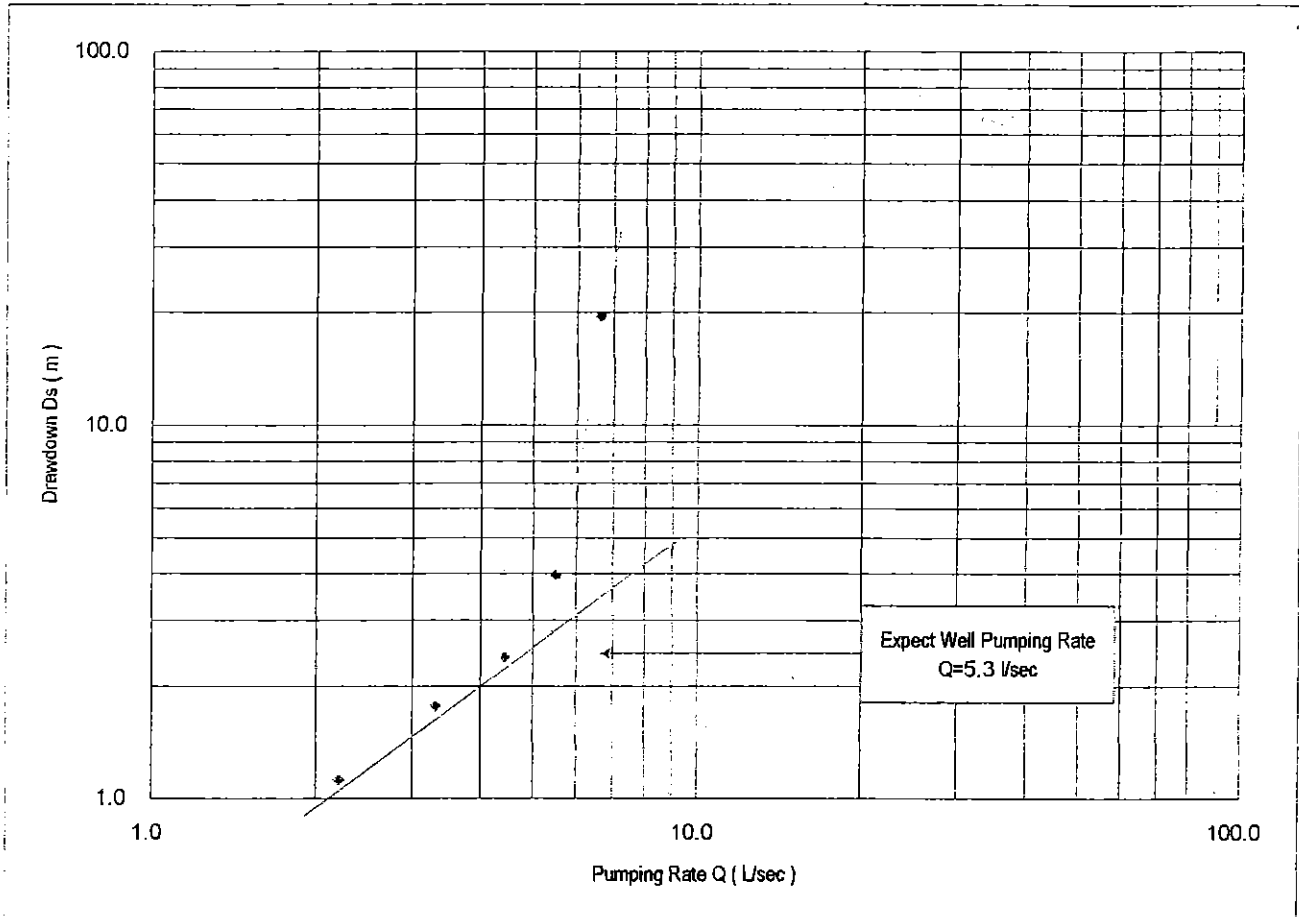
Duration ( min )	Constant Discharge Test			Recovery Test		Water Analysis	Remarks
	Water level (m)	Drawdown (m)	Pumping rate (l/sec)	Water level (m)	Residual (m)	Conductivity ( )	
70.0	28.04	3.09		25.55	0.60		
80.0	28.05	3.10		25.55	0.60		
90.0	28.07	3.12		25.53	0.58		
100.0	28.09	3.14		25.50	0.55		
110.0	28.11	3.16		25.50	0.55		
120.0	28.12	3.17		25.49	0.54		
140.0	28.15	3.20		25.47	0.52		
160.0	28.15	3.20		25.45	0.50		
180.0	28.15	3.20		25.45	0.50		
200.0	28.17	3.22		25.44	0.49		
220.0	28.18	3.23		25.43	0.48		
240.0	28.18	3.23		25.42	0.47		
280.0	28.23	3.28		25.40	0.45		
320.0	28.25	3.30		25.38	0.43		
360.0	28.28	3.33		25.35	0.40		
420.0	28.35	3.40		25.30	0.35		
480.0	28.40	3.45		25.26	0.31		
540.0	28.40	3.45		25.24	0.29		
600.0	28.48	3.53		25.22	0.27		
660.0	28.50	3.55		25.20	0.25		
720.0	28.53	3.58		25.18	0.23		
840.0	28.57	3.62		25.14	0.19		
960.0	28.65	3.70		25.10	0.15		
1080.0	28.72	3.77		25.05	0.10		
1200.0	28.83	3.88		25.01	0.06		
1320.0	28.95	4.00		24.98	0.03		
1440.0	28.99	4.04		24.97	0.02		



## Step Drawdown Test

Well Code: T-03/4  
 Site Code: T-03  
 S.W.L. (m): 24.80

Site Name: Sheb Humran

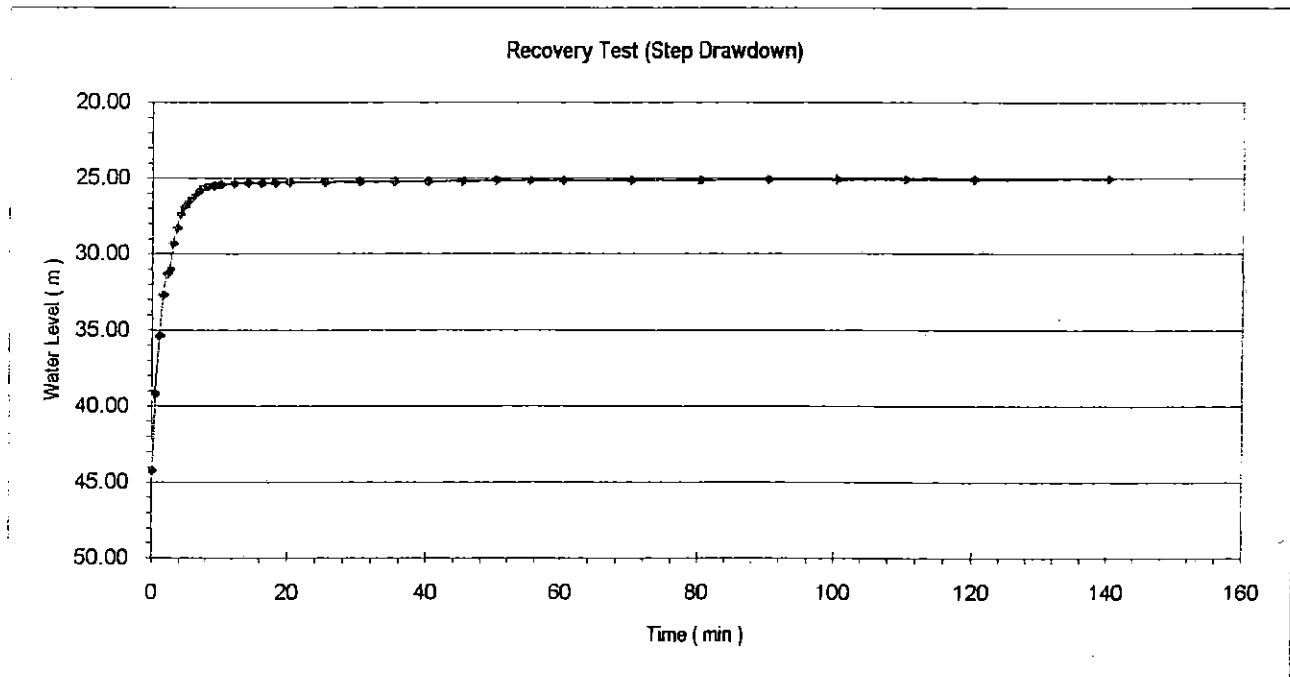
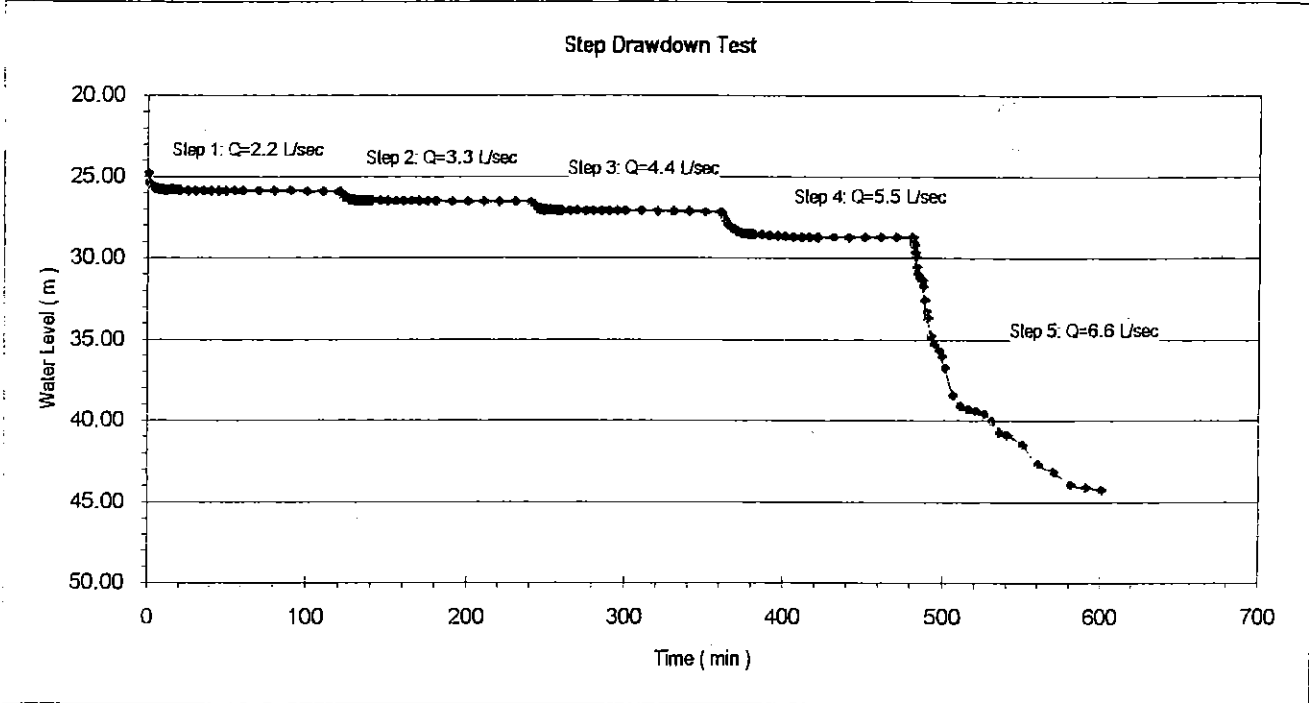


Step	Q (l/sec)	D.W.L. (m)	Ds (m)
1	2.2	25.92	1.12
2	3.3	26.57	1.77
3	4.4	27.19	2.39
4	5.5	28.75	3.95
5	6.6	44.25	19.45

# Step Drawdown Test

Well Code: T-03/4  
Site Code: T-03  
S.W.L. (m): 24.80

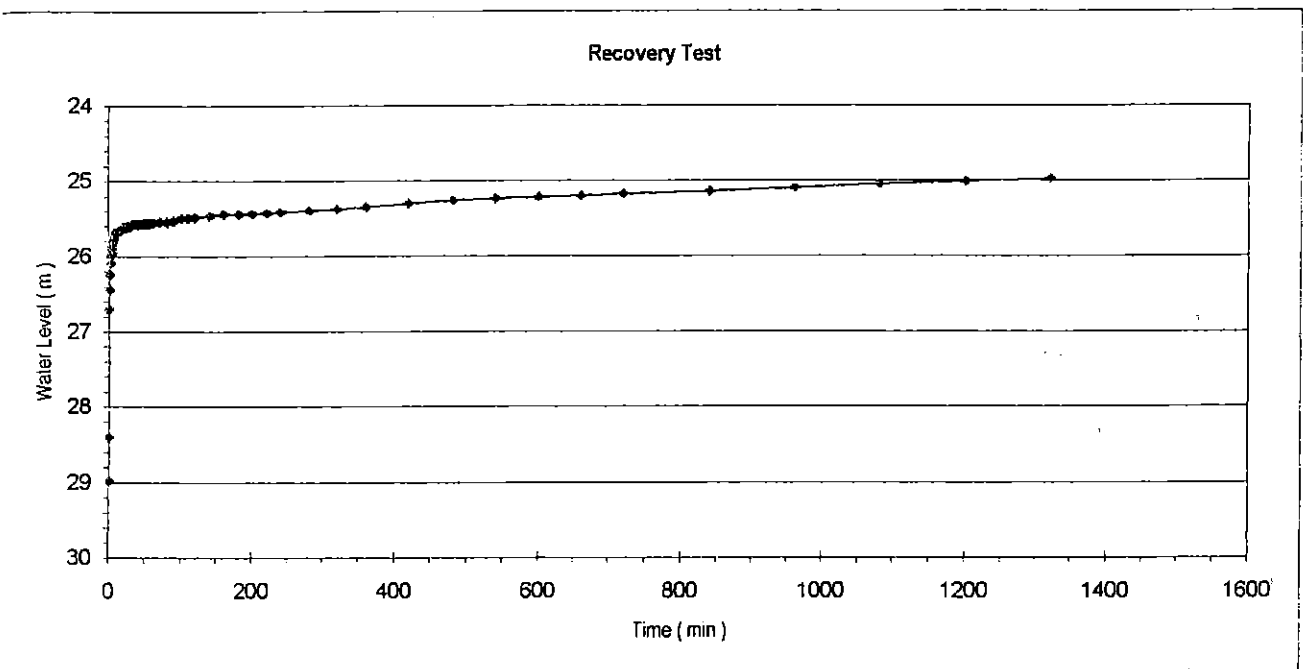
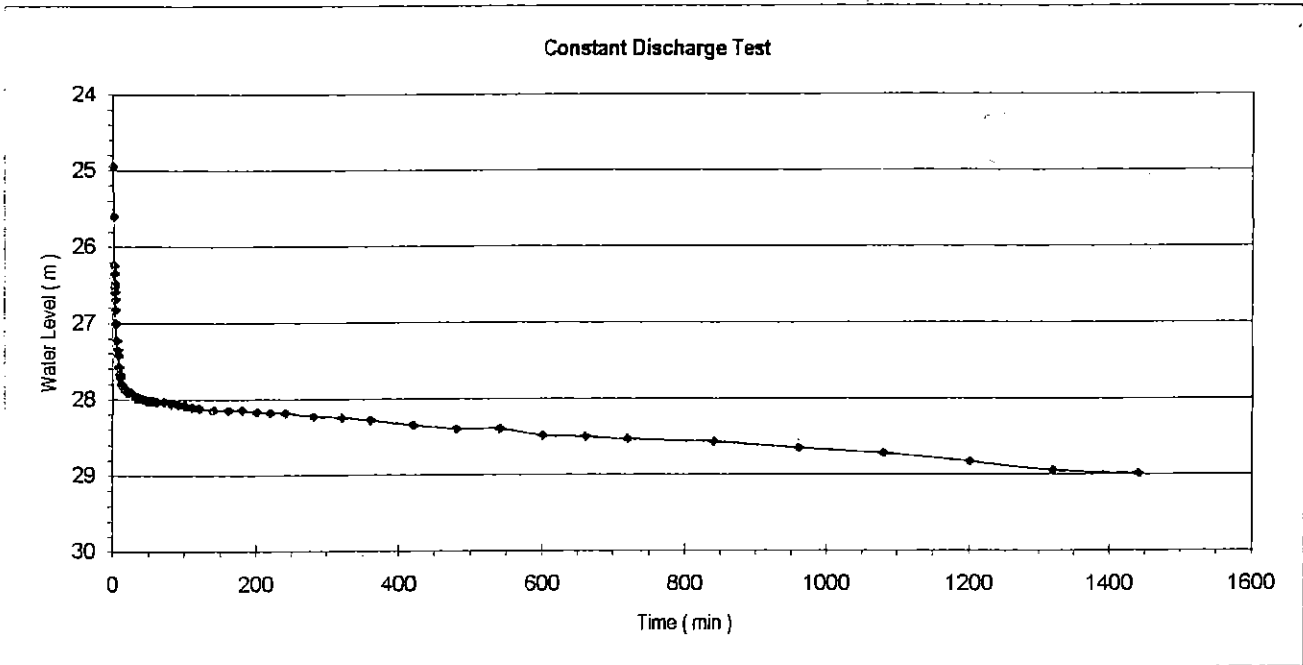
Site Name: Sheb Humran



### Constant Discharge Test

Well Code: T-03/4  
Site Code: T-03  
S.W.L. (m): 24.95  
Yield (L/sec): 4.2

Site Name: Sheb Humran  
D.W.L (m): 28.99 Drawdown (m): 4.04



## Pumping Test Report Sheet

Well code: T-04 Site code: T-04 Site name: Yafaq Bani Hamad

District: Al Mawaset Governorate: Taiz

Target water source: Existing projected deep well Well depth: 230 m

Contractor: Abdulkhaleg M. AL- Goli

Hydrogeologist in charge: Ali Abdullah Nagi AL- Gounaid

Operator: Abdu Lwase Abdullah Ahmed

Date of start of the test: 09/07/2006 Date of end of the test: 11/07/2006

Pump type: Vertical pump Engine: Iveco aifo

Pump installation depth: 156 m Datum level: 0.50 m S.W.L.: G.L.-124.10 m

### Step drawdown test

Date/hour started: 9-7-2006-4:30pm Date/hour finished: 9-7-2006-8:40am Total hours: 12:20

Yield (l/sec): 1<sup>st</sup> step 1.20 2<sup>nd</sup> step 2.40 3<sup>rd</sup> step 3.60 4<sup>th</sup> step 4.80 5<sup>th</sup> step 6.00

Water level before start the test (G.L.-m): 124.80

Water level after end of 5<sup>th</sup> step (G.L.-m): 127.49

Water level after recovery (G.L.-m): 124.80 Recovery hours: 02:20

### Constant discharge test

Date/hour started: 10-7-2006-3:15pm Date/hour finished: 11-7-2006-6:15pm Total hours: 27:00

Yield (l/sec): 3.00

Water level before start of the test (G.L.-m): 124.80

Water level after end of test (G.L.-m): 126.71

Water level after recovery (G.L.-m): 124.85 Recovery hours: 03:00

Drawdown (m): 1.91

Revised by:

\_\_\_\_\_

Name :

Date:

## Provisional Step Drawdown Test

Well Code:     T-04     Site code:     T-04     Pump on date/hour:     9-7-2006-9:05am      
 Site name:     Yafoq Bani Hamad     Pump off date/hour:     9-7-2006-11:35am      
 District:     Al Mawaset     End of recovery hour:     9-7-2006-3:45pm      
 Governorate:     Taiz     S.W.L (m):     124.60    

Contractor:     Abdulkhaleg M. AL- Goli      
 Hydrogeologist:     Ali Abdullah Nagi AL- Gounaid      
 Operator:     Abdu Lwase Abdullah Ahmed    

Duration ( min )	1st Step		2nd Step		3rd Step		4th Step		5th Step		Recovery ( m )
	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	
0.0	124.60	1.20	125.56	2.40	125.88	3.60	126.37	4.80	127.03	6.00	127.74
0.5	125.19		125.77		125.95		126.54		127.18		124.95
1.0	125.20		125.70		125.98		126.62		127.29		124.50
1.5	125.16		125.74		125.97		126.70		127.35		124.65
2.0	125.17		125.80		126.00		126.71		127.43		124.95
2.5	125.18		125.78		126.00		126.70		127.50		125.50
3.0	125.72		125.78		125.99		126.70		127.50		125.30
3.5	125.75		125.76		126.10		126.74		127.60		125.32
4.0	125.75		125.78		126.09		126.78		127.62		125.50
4.5	125.80		125.80		126.29		126.85		127.63		125.51
5.0	125.80		125.82		126.39		126.85		127.61		125.52
6.0	125.75		125.83		126.35		126.96		127.70		125.00
7.0	125.68		125.84		126.40		126.95		127.72		125.00
8.0	125.60		125.84		126.36		127.00		127.69		125.60
9.0	125.58		125.85		126.35		127.00		127.66		125.61
10.0	125.60		125.82		126.35		127.05		127.70		125.55
12.0	125.55		125.85		126.35		127.02		127.65		125.52
14.0	125.50		125.83		126.36		127.80		127.66		125.50
16.0	125.75		125.96		126.35		127.03		127.67		125.50
18.0	125.76		125.93		126.37		127.05		127.70		125.50
20.0	125.65		125.80		126.35		127.08		127.73		125.48
22.0	125.53		125.85		126.36		127.03		127.79		125.45
24.0	125.68		125.85		126.37		127.03		127.72		125.40
26.0	125.64		125.85		126.39		127.06		127.75		125.35
28.0	125.56		125.83		126.37		127.05		127.69		125.30
30.0	125.56		125.88		126.37		127.03		127.74		125.30
250.0											125.30

## Step Drawdown Test

Well Code: T-04      Site code: T-04      Pump on date/hour: 9-7-2006-4:30pm  
 Site name: Yafaq Bani Hamad      Pump off date/hour: 9-7-2006-2:30am  
 District: Al Mawaset      End of recovery hour: 9-7-2006-8:40am  
 Governorate: Taiz      S.W.L ( m ): 125.30

Contractor: Abdulkhaleg M. AL- Goli  
 Hydrogeologist: Ali Abdullah Nagi AL- Gounaid  
 Operator: Abdu Lwase Abdullah Ahmed

Duration ( min )	1st Step		2nd Step		3rd Step		4th Step		5th Step		Recovery ( m )
	W.L. ( m )	Yield ( l/sec)	W.L. ( m )	Yield ( l/sec)	W.L. ( m )	Yield ( l/sec)	W.L. ( m )	Yield ( l/sec)	W.L. ( m )	Yield ( l/sec)	
0.0	125.30		125.45		125.95		126.79		127.26		127.99
0.5	125.70		125.70		126.20		126.80		127.62		127.63
1.0	125.82		125.81		126.24		126.90		127.68		127.40
1.5	125.67		125.80		126.27		126.93		127.69		127.20
2.0	125.66		125.80		126.30		126.95		127.70		127.10
2.5	125.66		125.80		126.38		127.02		127.70		126.92
3.0	125.49		125.80		126.40		127.05		127.70		126.82
3.5	125.50		125.80		126.41		127.07		127.71		126.73
4.0	125.55		125.81		126.42		127.07		127.71		126.63
4.5	125.50		125.81		126.44		127.08		127.72		126.52
5.0	125.55		125.81		126.44		127.08		127.73		126.44
6.0	125.54		125.82		126.45		127.08		127.75		126.33
7.0	125.50		125.83		126.45		127.08		127.75		126.12
8.0	125.44		125.84		126.47		127.09		127.79		126.00
9.0	125.48		125.84		126.47		127.09		127.80		125.99
10.0	125.45		125.85		126.48		127.09		127.81		125.98
12.0	125.43		125.85		126.49		127.09		127.82		125.99
14.0	125.41		125.86		126.50		127.10		127.82		125.97
16.0	125.40		125.87		126.52		127.11		127.82		125.94
18.0	125.39		125.88		126.53		127.11		127.83		125.90
20.0	125.39		125.90		126.55		127.15		127.84		125.90
25.0	125.39		125.90		126.57		127.18		127.84		125.90
30.0	125.40		125.91		126.58		127.18		127.85		125.85
35.0	125.40		125.94		126.59		127.18		127.86		125.85
40.0	125.40		125.95		126.60		127.19		127.87		125.80
45.0	125.40		125.95		126.60		127.19		127.88		125.80
50.0	125.40		125.97		126.62		127.20		127.89		125.75
55.0	125.40		125.98		126.64		127.20		127.90		125.70
60.0	125.42		126.00		126.67		127.21		127.91		125.70
70.0	125.45		126.02		126.68		127.23		127.93		125.60
80.0	125.47		126.02		126.70		127.23		127.93		125.55
90.0	125.45		126.05		126.71		127.23		127.95		125.47
100.0	125.46		126.09		126.74		127.25		127.96		125.42
110.0	125.45		125.95		126.78		127.25		127.98		125.38
120.0	125.45		125.95		126.79		127.26		127.99		125.35
140.0											125.30
160.0											125.30
180.0											125.30
210.0											125.30
240.0											125.30

## Constant Discharge & Recovery Test (1/2)

Well Code: T-04 Site code: T-04

Site name: Yafiq Bani Hamad

Pump on date/hour: 10-7-2006-3:15pm

District: Al Mawaset

Pump off date/hour: 11-7-2006-3:15pm

Governorate: Taiz

End of recovery hour: 11-7-2006-6:15pm

Contractor: Abdulkhaleg M. AL- Goli

S.W.L ( m ): 125.30

Hydrogeologist: Ali Abdullah Nagi AL- Gounaid

D.W.L ( m ): 127.21

Operator: Abdu Lwase Abdullah Ahmed

Yield (l/sec): 3.0

Duration ( min )	Constant Dischrge Test			Recovery Test		Water Analysis	Remarks
	Water level (m)	Drawdown (m)	Pumping rate (l/sec)	Water level (m)	Residual (m)	Conductivity ( )	
0.0	125.30	0.00		127.21	1.91		
0.5	125.40	0.10		126.48	1.18		
1.0	125.45	0.15		126.34	1.04		
1.5	125.50	0.20		126.30	1.00		
2.0	125.95	0.65		126.35	1.05		
2.5	125.99	0.69		126.30	1.00		
3.0	126.00	0.70		126.16	0.86		
3.5	126.10	0.80		125.98	0.68		
4.0	126.15	0.85		125.98	0.68		
4.5	126.16	0.86		126.00	0.70		
5.0	126.19	0.89		125.99	0.69		
6.0	126.20	0.90		125.99	0.69		
7.0	126.20	0.90		125.95	0.65		
8.0	126.20	0.90		125.95	0.65		
9.0	126.20	0.90		125.95	0.65		
10.0	126.20	0.90		125.95	0.65		
12.0	126.21	0.91		125.95	0.65		
14.0	126.21	0.91		125.95	0.65		
16.0	126.21	0.91		125.96	0.66		
18.0	126.21	0.91		125.96	0.66		
20.0	126.21	0.91		125.90	0.60		
25.0	126.21	0.91		125.95	0.65		
30.0	126.21	0.91		125.96	0.66		
35.0	126.21	0.91		125.95	0.65		
40.0	126.21	0.91		125.90	0.60		
45.0	126.21	0.91		125.90	0.60		
50.0	126.21	0.91		125.90	0.60		
55.0	126.21	0.91		125.93	0.63		
60.0	126.21	0.91		125.90	0.60		

## Constant Discharge & Recovery Test (2/2)

Well Code: T-04      Site code: T-04      Site name: Yafaq Bani Hamad  
 District: Al Mawaset      Governorate Taiz

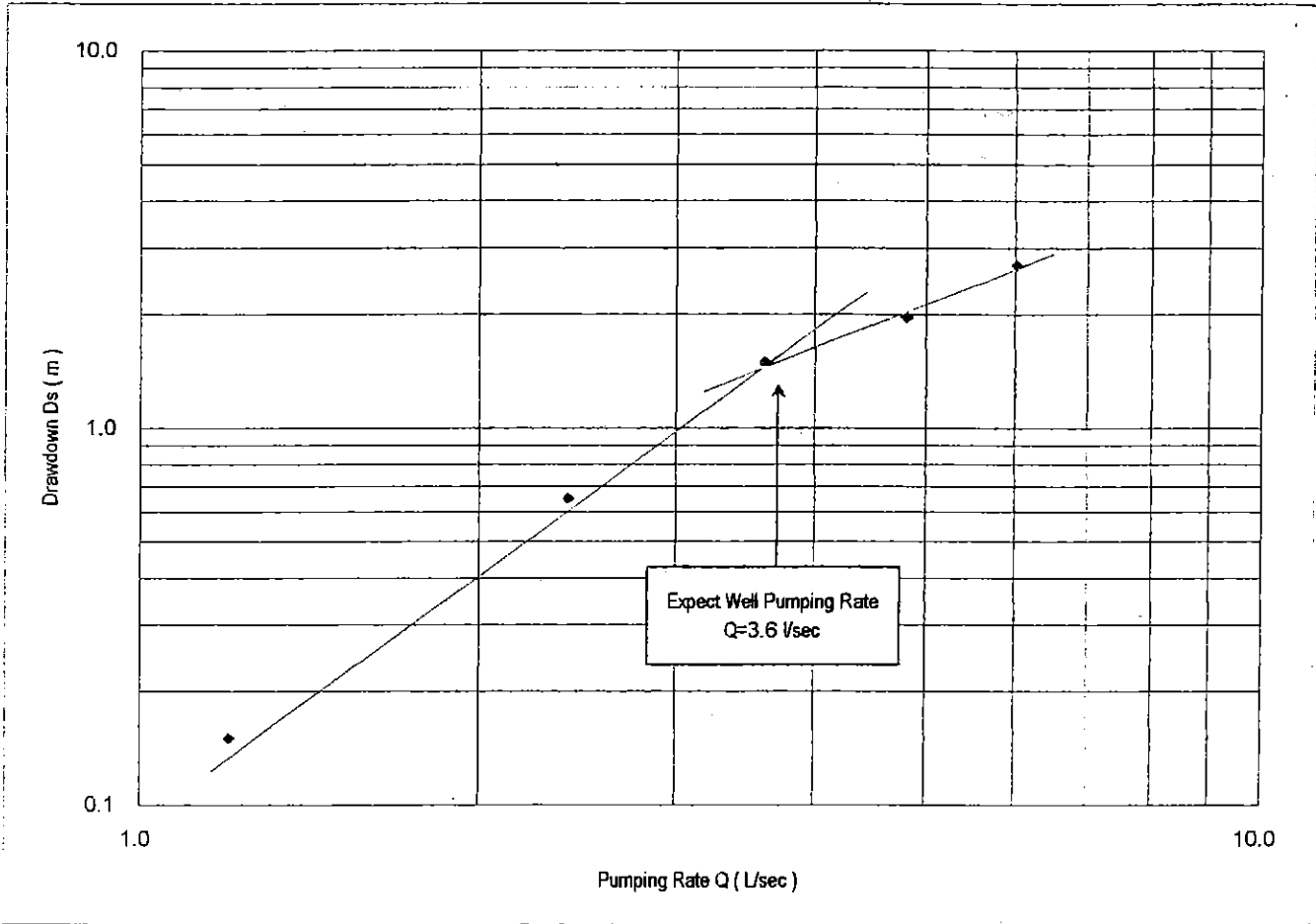
Duration ( min )	Constant Discharge Test			Recovery Test		Water Analysis	Remarks
	Water level (m)	Drawdown (m)	Pumping rate (l/sec)	Water level (m)	Residual (m)	Conductivity ( )	
70.0	126.21	0.91		125.90	0.60		
80.0	126.24	0.94		125.90	0.60		
90.0	126.25	0.95		125.88	0.58		
100.0	126.25	0.95		125.79	0.49		
110.0	126.25	0.95		125.70	0.40		
120.0	126.25	0.95		125.62	0.32		
140.0	126.25	0.95		125.53	0.23		
160.0	126.30	1.00		125.44	0.14		
180.0	126.30	1.00		125.35	0.05		
200.0	126.32	1.02					
220.0	126.32	1.02					
240.0	126.37	1.07					
280.0	126.43	1.13					
320.0	126.50	1.20					
360.0	126.50	1.20					
420.0	126.60	1.30					
480.0	126.65	1.35					
540.0	126.75	1.45					
600.0	126.75	1.45					
660.0	126.80	1.50					
720.0	126.80	1.50					
840.0	126.90	1.60					
960.0	126.90	1.60					
1080.0	127.10	1.80					
1200.0	127.18	1.88					
1320.0	127.21	1.91					
1440.0	127.21	1.91					



## Step Drawdown Test

Well Code: T-04  
 Site Code: T-04  
 S.W.L. (m): 125.30

Site Name: Yafaq Bani Hamed

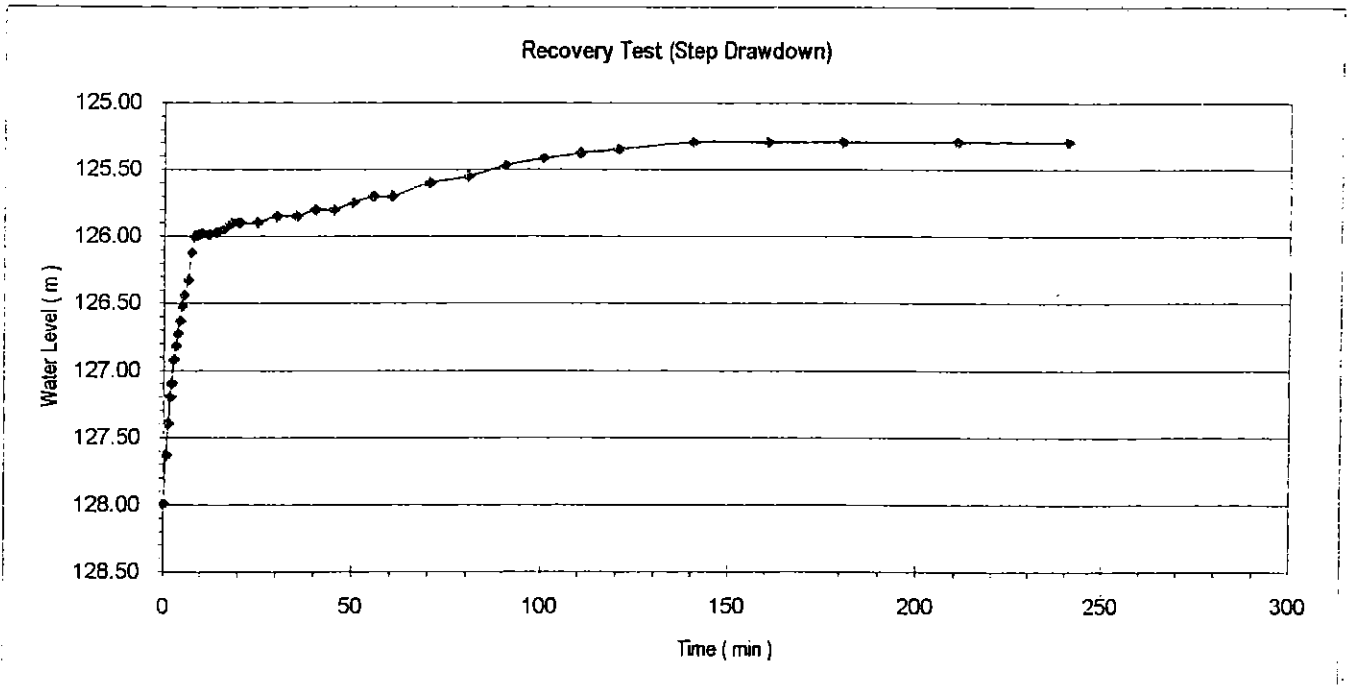
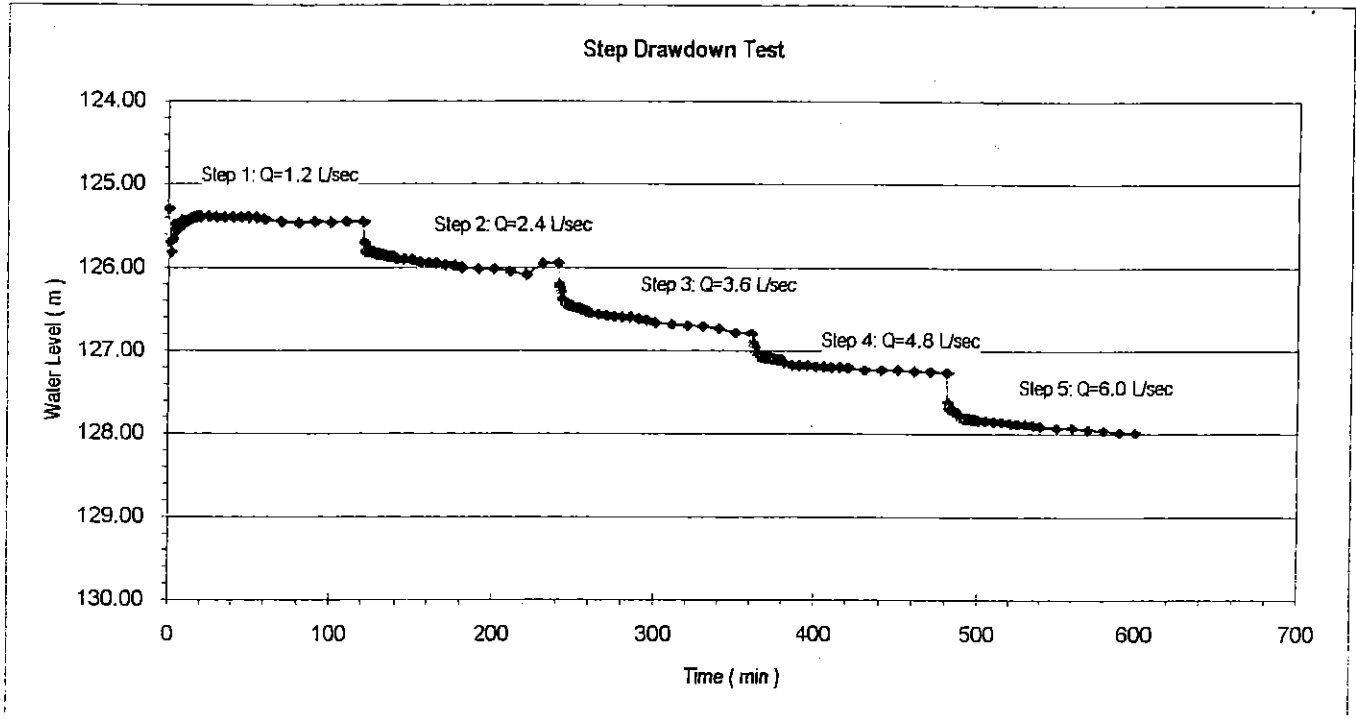


Step	Q (l/sec)	D.W.L. (m)	Ds (m)
1	1.2	125.45	0.15
2	2.4	125.95	0.65
3	3.6	126.79	1.49
4	4.8	127.26	1.96
5	6.0	127.99	2.69

# Step Drawdown Test

Well Code: T-04  
Site Code: T-04  
S.W.L. (m): 125.30

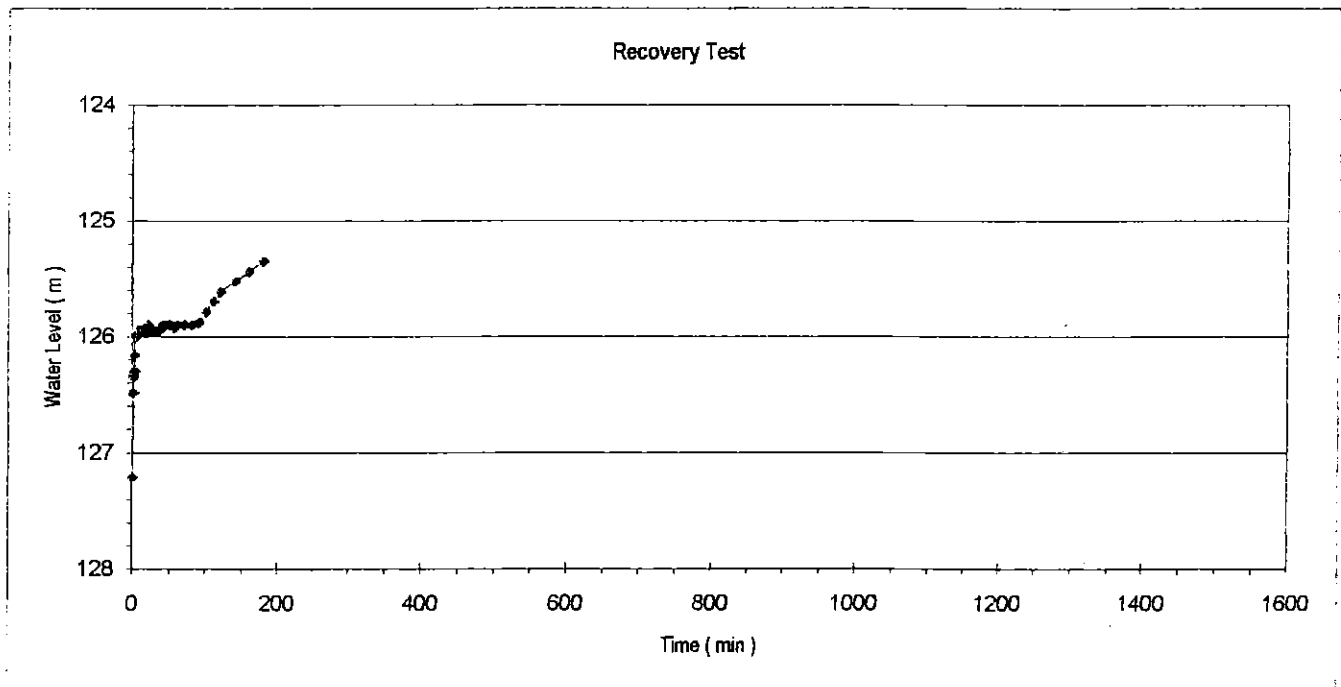
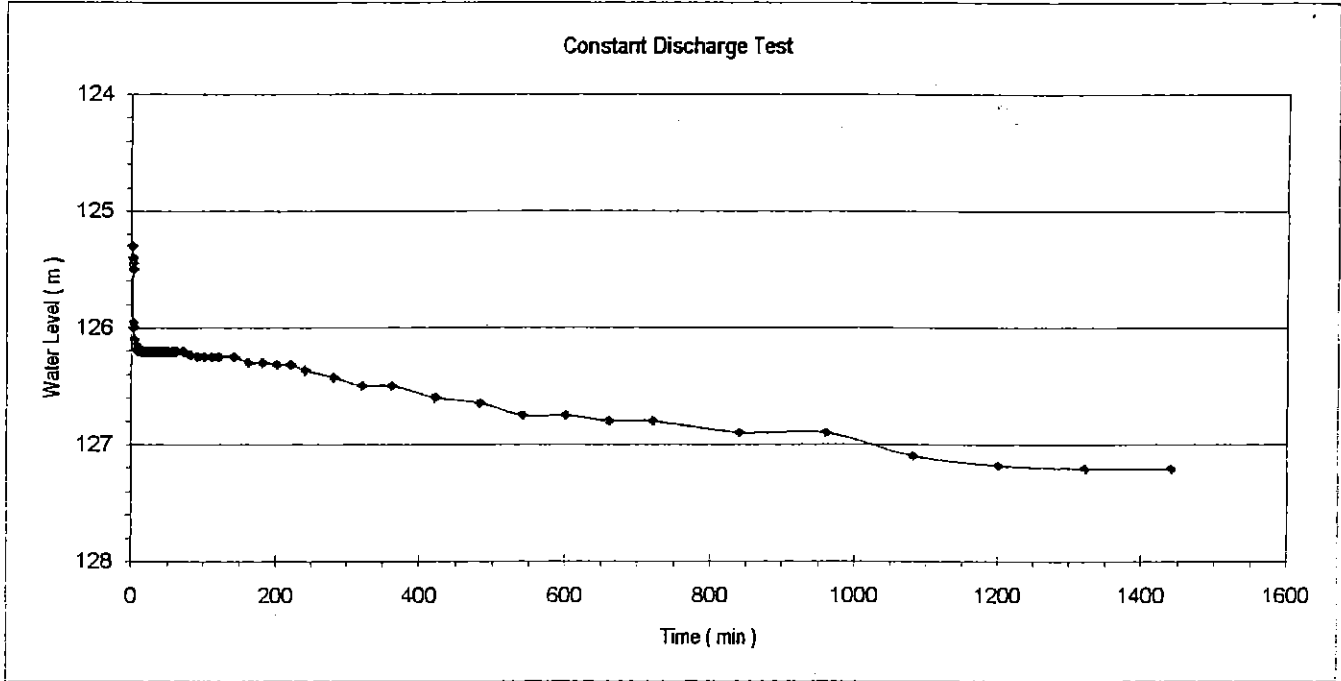
Site Name: Yafaq Bani Hamad



## Constant Discharge Test

Well Code: T-04  
Site Code: T-04  
S.W.L. (m): 125.3  
Yield (L/sec): 3.0

Site Name: Yafaq Bani Hamad  
D.W.L. (m): 127.21 Drawdown (m): 1.91



## Pumping Test Report Sheet

Well code: T-05/1 Site code: T-05 Site name: Al Azaez

District: Al Shamayaten Governorate: Taiz

Target water source: Existing projected deep well Well depth: 230 m

Contractor: Abdulkhaleg M. AL- Goli

Hydrogeologist in charge: Ali Abdullah Nagi AL- Gounaid

Operator: Mohammed Azeen

Date of start of the test: 12/07/2006 Date of end of the test: 17/07/2006

Pump type: Vertical pump Engine: Iveco aifo

Pump installation depth: 98 m Datum level: 0.58 m S.W.L.: G.L.-8.20 m

### Step drawdown test

Date/hour started: 13-7-2006-8:15pm Date/hour finished: 14-7-2006-1:15pm Total hours: 17:00

Yield (l/sec): 1<sup>st</sup> step 1.00 2<sup>nd</sup> step 1.50 3<sup>rd</sup> step 2.00 4<sup>th</sup> step 2.50 5<sup>th</sup> step 3.00

Water level before start the test (G.L.-m): 8.22

Water level after end of 5<sup>th</sup> step (G.L.-m): 77.17

Water level after recovery (G.L.-m): 8.41 Recovery hours: 07:00

### Constant discharge test

Date/hour started: 15-7-2006-1:30pm Date/hour finished: 17-7-2006-9:30am Total hours: 44:00

Yield (l/sec): 2.00

Water level before start of the test (G.L.-m): 8.41

Water level after end of test (G.L.-m): 53.60

Water level after recovery (G.L.-m): 8.39 Recovery hours: 20:00

Drawdown (m): 45.19

Revised by:

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Name :

Date:

# Provisional Step Drawdown Test

Well Code: T-05/1      Site code: T-05      Pump on date/hour: 13-7-2006-8:15am  
 Site name: Al Azaez      Pump off date/hour: 13-7-2006-10:45am  
 District: Al Shamayaten      End of recovery hour: 13-7-2006-6:45pm  
 Governorate: Taiz      S.W.L ( m ): 8.78

Contractor: Abdulkhaleg M. AL- Goli  
 Hydrogeologist: Ali Abdullah Nagi AL- Gounaid  
 Operator: Mohammed Azeen

Duration ( min )	1st Step		2nd Step		3rd Step		4th Step		5th Step		Recovery ( m )
	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	
0.0	8.78	1.00	36.60	1.50	42.33	2.00	50.85	2.50	59.15	3.00	83.32
0.5	15.00		38.00		44.60		51.10		69.40		79.00
1.0	22.80		38.60		46.00		51.15		74.40		76.00
1.5	27.50		39.00		47.00		51.10		77.80		71.00
2.0	31.50		39.40		48.40		51.10		81.00		67.60
2.5	34.40		39.50		48.90		51.10		83.00		63.50
3.0	36.80		39.70		49.15		51.14		84.20		61.40
3.5	38.70		39.90		49.60		51.16		85.30		57.30
4.0	39.50		40.00		49.75		51.18		86.00		54.60
4.5	40.00		40.20		49.80		51.45		86.00		51.90
5.0	40.90		40.30		49.90		52.90		86.00		49.70
6.0	39.70		40.45		50.10		55.20		83.10		45.60
7.0	38.70		40.65		50.25		56.80		83.10		42.20
8.0	36.00		40.75		50.35		57.60		83.20		39.60
9.0	35.75		40.93		50.40		58.10		83.20		37.20
10.0	37.20		41.00		50.45		58.40		83.10		34.70
12.0	37.00		41.20		50.55		58.86		82.90		30.10
14.0	36.00		41.40		50.60		58.94		82.70		27.80
16.0	35.60		41.60		50.60		59.00		82.95		25.00
18.0	35.40		41.70		50.65		59.08		83.10		23.70
20.0	37.07		41.80		50.60		59.20		83.12		22.30
22.0	39.12		41.90		50.60		59.30		83.13		21.20
24.0	38.45		42.03		50.70		59.50		83.22		18.60
26.0	37.35		42.05		50.75		59.90		83.26		17.20
28.0	36.84		42.20		50.94		59.10		83.30		15.80
30.0	36.60		42.33		50.85		59.15		83.32		14.70
50.0											13.80
70.0											13.20
90.0											12.43
110.0											12.02
130.0											11.55
150.0											9.65
170.0											9.51
190.0											9.41
210.0											9.26
480.0											9.20

## Step Drawdown Test

Well Code: T-05/1      Site code: T-05      Pump on date/hour: 13-7-2006-8:15pm  
 Site name: Al Azaez      Pump off date/hour: 14-7-2006-6:15am  
 District: Al Shamayaten      End of recovery hour: 14-7-2006-1:15pm  
 Governorate: Taiz      S.W.L. (m): 8.80

Contractor: Abdulkhaleg M. AL- Goli  
 Hydrogeologist: Ali Abdullah Nagi AL- Gounaid  
 Operator: Mohmmad Azeen

Duration (min)	1st Step		2nd Step		3rd Step		4th Step		5th Step		Recovery (m)
	W.L. (m)	Yield (l/sec)	W.L. (m)	Yield (l/sec)	W.L. (m)	Yield (l/sec)	W.L. (m)	Yield (l/sec)	W.L. (m)	Yield (l/sec)	
0.0	8.80	1.00	32.90	1.50	42.72	2.00	52.40	2.50	60.45	3.00	77.75
0.5	17.50		34.00		43.55		55.60		63.80		74.23
1.0	21.90		34.80		43.40		57.60		64.40		71.45
1.5	24.41		35.10		43.38		58.80		65.80		68.21
2.0	27.58		35.28		43.33		59.80		66.30		63.38
2.5	28.91		35.40		43.33		60.50		67.30		59.58
3.0	29.10		35.53		44.30		60.10		67.80		57.86
3.5	29.60		35.61		48.25		59.10		67.90		54.29
4.0	29.81		35.68		50.00		58.40		69.50		52.41
4.5	30.54		35.70		51.40		57.10		71.90		50.27
5.0	30.89		35.72		51.70		57.30		72.10		48.51
6.0	31.61		35.79		51.80		56.90		72.20		44.82
7.0	32.01		35.77		51.50		56.59		75.85		41.86
8.0	31.00		35.74		51.00		56.30		76.60		39.25
9.0	30.53		35.72		51.82		57.10		76.92		37.00
10.0	31.18		35.75		52.06		57.40		77.15		35.05
12.0	31.45		41.50		52.44		57.80		77.50		31.35
14.0	30.90		43.00		52.66		57.90		77.73		29.32
16.0	30.34		43.50		52.80		57.92		77.74		27.20
18.0	30.11		43.77		53.25		57.94		77.63		25.55
20.0	30.80		43.60		53.10		57.97		77.68		24.20
25.0	32.07		43.50		52.70		59.80		77.69		21.64
30.0	32.60		43.19		52.70		59.50		77.95		20.71
35.0	32.90		42.90		52.70		59.30		77.92		19.85
40.0	32.05		42.92		52.50		59.10		77.95		18.49
45.0	32.10		42.97		52.40		60.20		77.90		17.63
50.0	32.50		42.90		52.53		60.32		77.85		16.85
55.0	32.20		42.80		52.60		60.45		77.68		15.05
60.0	32.50		42.78		52.75		60.56		77.75		15.27
70.0	32.54		42.71		52.70		60.68		77.65		14.49
80.0	32.54		42.70		52.56		60.64		77.85		13.93
90.0	32.46		42.80		52.45		60.76		77.70		12.58
100.0	32.70		42.79		52.80		60.85		77.76		12.31
110.0	32.71		42.77				60.80		77.77		12.19
120.0	32.90		42.72		52.40		60.45		77.75		12.03
140.0											12.50
160.0											12.18
420.0											8.99

## Constant Discharge & Recovery Test (1/2)

Well Code: T-05/1                      Site code: T-05

Site name: Al Azaez

Pump on date/hour: 15-7-2006-1:30pm

District: Al Shamayaten

Pump off date/hour: 16-7-2006-1:30pm

Governorate: Taiz

End of recovery hour: 17-7-2006-9:30am

Contractor: Abdulkhaleg M. AL- Goli

S.W.L ( m ): 8.99

Hydrogeologist: Ali Abdullah Nagi AL- Gounaid

D.W.L ( m ): 54.18

Operator: Mohmmad Azeen

Yield (l/sec): 2.0

Duration ( min )	Constant Discharge Test			Recovery Test		Water Analysis	Remarks
	Water level (m)	Drawdown (m)	Pumping rate (l/sec)	Water level (m)	Residual (m)	Conductivity ( )	
0.0	8.99	0.00		54.18	45.19		
0.5	16.90	7.91		51.71	42.72		
1.0	23.00	14.01		49.88	40.89		
1.5	27.45	18.46		47.61	38.62		
2.0	31.00	22.01		45.60	36.61		
2.5	33.44	24.45		43.91	34.92		
3.0	33.72	24.73		42.54	33.55		
3.5	33.73	24.74		41.11	32.12		
4.0	33.70	24.71		39.48	30.49		
4.5	33.71	24.72		38.29	29.30		
5.0	33.76	24.77		37.03	28.04		
6.0	36.53	27.54		34.96	25.97		
7.0	38.07	29.08		33.12	24.13		
8.0	38.54	29.55		31.55	22.56		
9.0	39.16	30.17		30.00	21.01		
10.0	39.69	30.70		28.65	19.66		
12.0	40.27	31.28		26.83	17.84		
14.0	40.82	31.83		25.05	16.06		
16.0	41.46	32.47		23.74	14.75		
18.0	41.71	32.72		22.54	13.55		
20.0	41.91	32.92		21.53	12.54		
25.0	42.08	33.09		19.64	10.65		
30.0	48.58	39.59		18.30	9.31		
35.0	49.76	40.77		17.22	8.23		
40.0	49.09	40.10		16.43	7.44		
45.0	49.28	40.29		15.78	6.79		
50.0	49.55	40.56		15.25	6.26		
55.0	49.74	40.75		14.68	5.69		
60.0	49.78	40.79		14.08	5.09		

## Constant Discharge & Recovery Test (2/2)

Well Code: T-05/1      Site code: T-05      Site name: Al Azaez  
 District: Al Shamayaten      Governorate Taiz

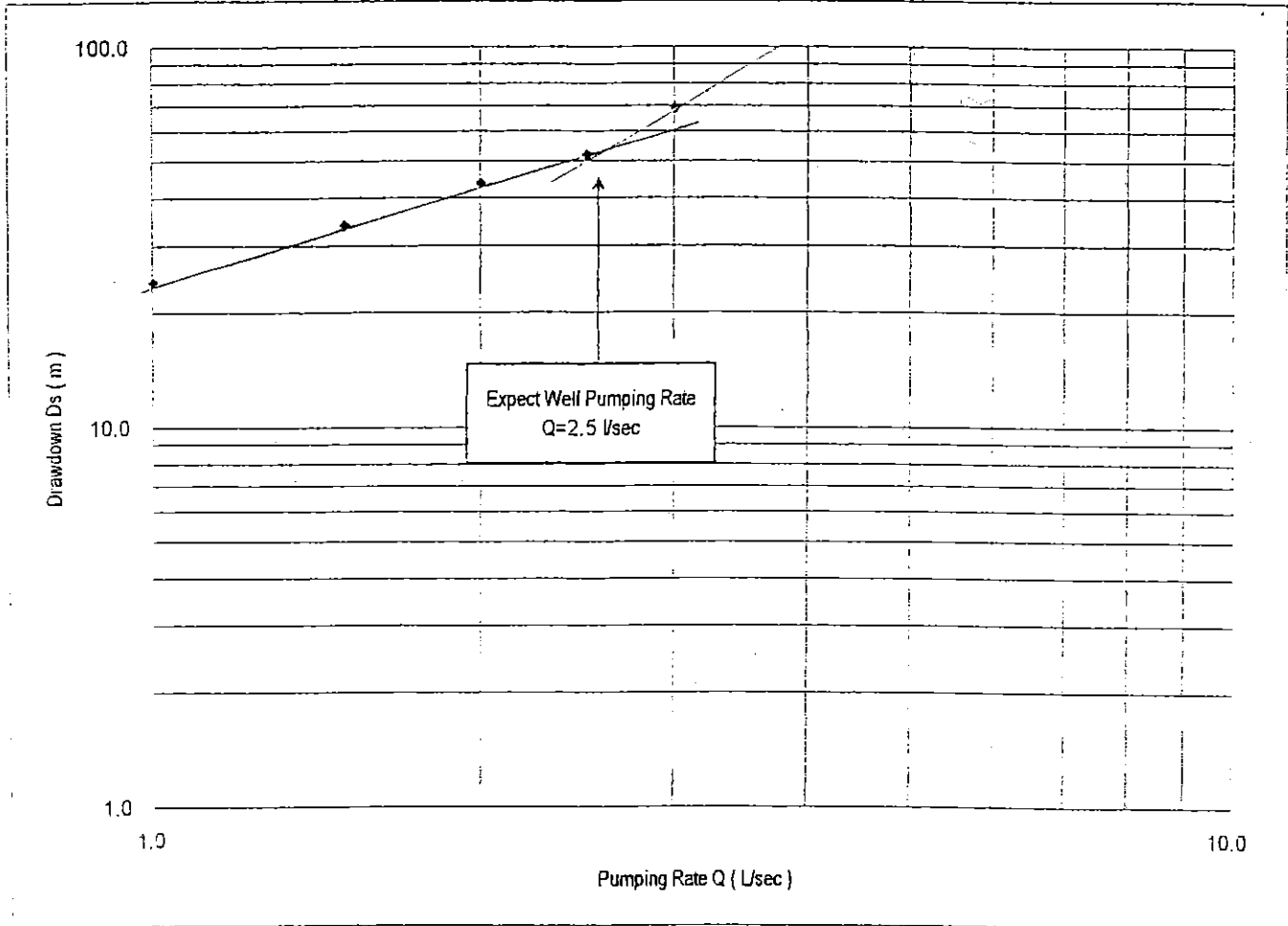
Duration ( min )	Constant Discharge Test			Recovery Test		Water Analysis	Remarks
	Water level (m)	Drawdown (m)	Pumping rate (l/sec)	Water level (m)	Residual (m)	Conductivity ( )	
70.0	50.59	41.60		13.56	4.57		
80.0	51.08	42.09		13.14	4.15		
90.0	51.79	42.80		12.79	3.80		
100.0	51.98	42.99		12.52	3.53		
110.0	52.75	43.76		12.26	3.27		
120.0	53.62	44.63		12.06	3.07		
140.0	53.52	44.53		11.71	2.72		
160.0	53.28	44.29		11.45	2.46		
180.0	54.07	45.08		11.23	2.24		
200.0	53.64	44.65		11.07	2.08		
220.0	54.14	45.15		10.93	1.94		
240.0	54.70	45.71		10.81	1.82		
280.0	54.32	45.33		10.65	1.66		
320.0	54.46	45.47		10.53	1.54		
360.0	54.42	45.43		10.34	1.35		
420.0	54.43	45.44		10.21	1.22		
480.0	54.40	45.41		9.98	0.99		
540.0	54.10	45.11		9.86	0.87		
600.0	54.07	45.08		9.81	0.82		
660.0	54.63	45.64		9.69	0.70		
720.0	54.13	45.14		9.55	0.56		
840.0	55.42	46.43		9.22	0.23		
960.0	55.53	46.54		9.13	0.14		
1080.0	54.78	45.79		9.06	0.07		
1200.0	54.61	45.62		8.97	-0.02		
1320.0	55.28	46.29					
1440.0	54.18	45.19					



## Step Drawdown Test

Well Code: T-05/1  
 Site Code: T-05  
 S.W.L. (m): 8.80

Site Name: Al Azaez

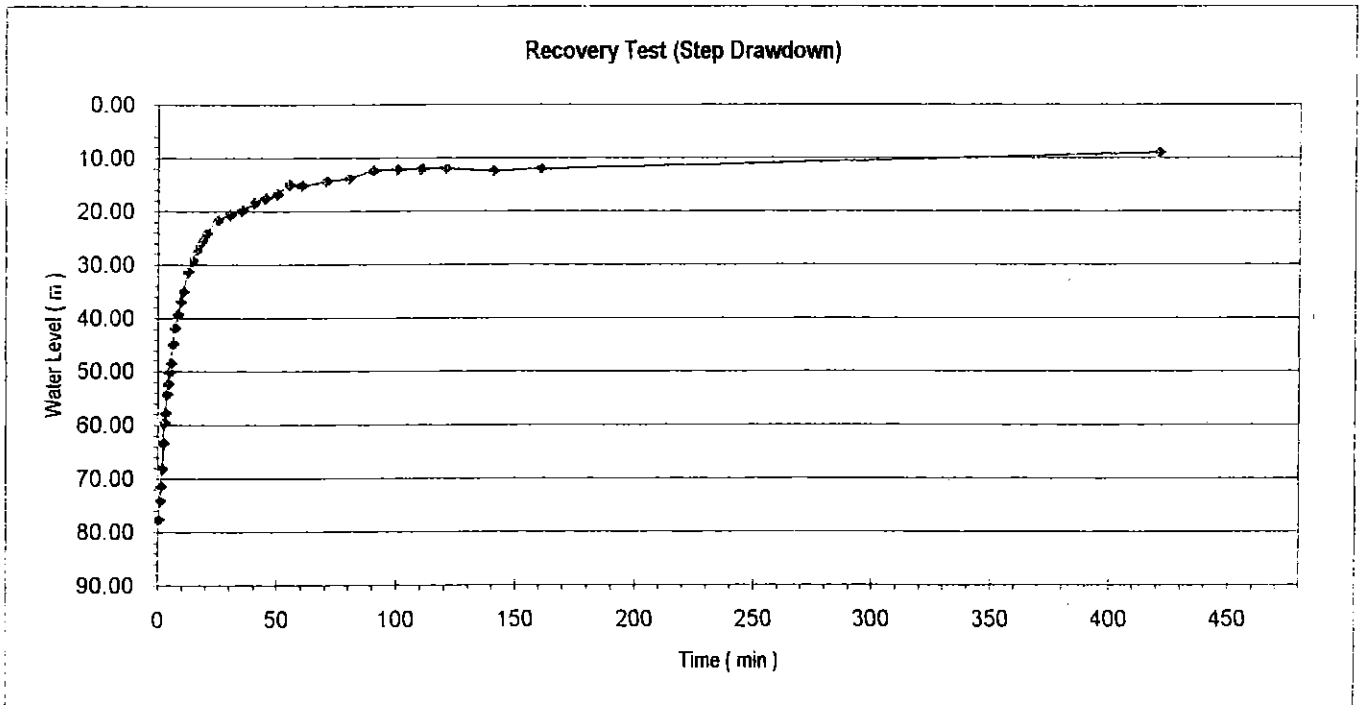
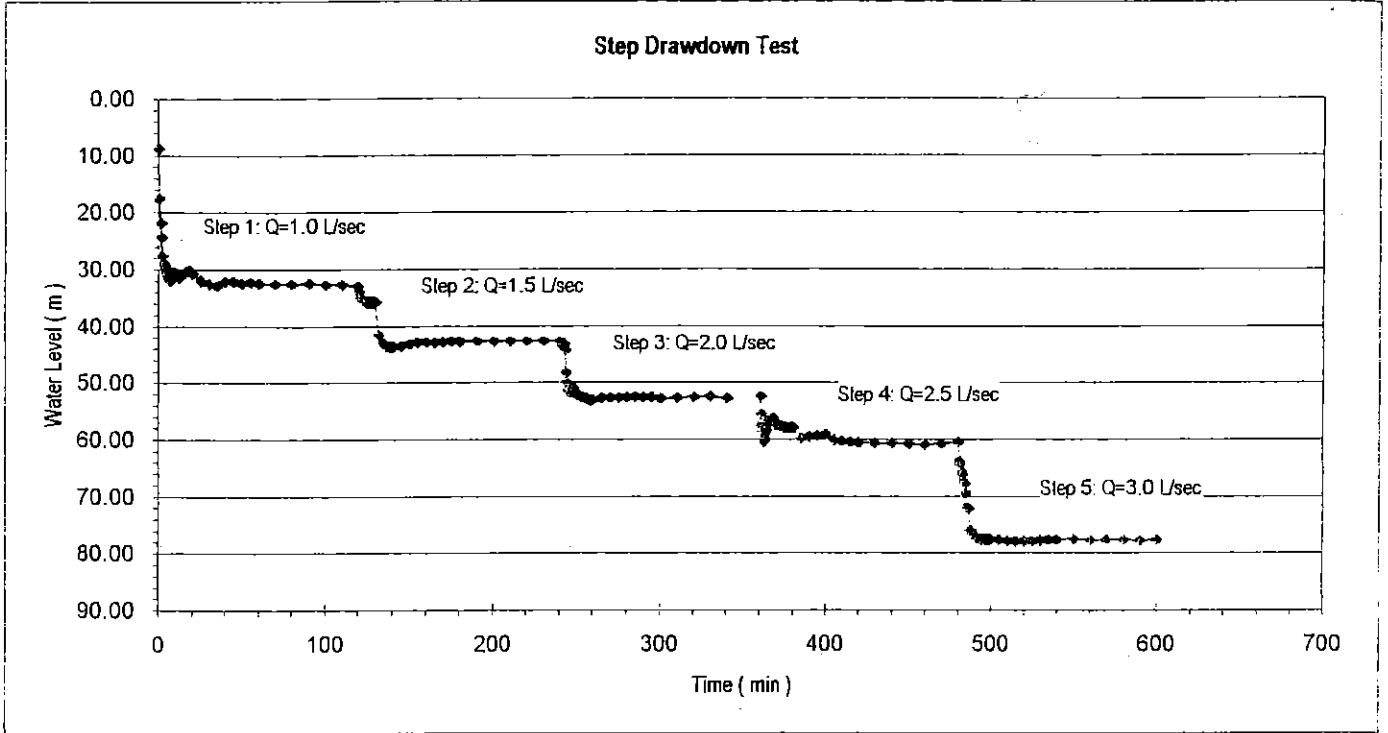


Step	$Q$ (l/sec)	D.W.L. (m)	$D_s$ (m)
1	1.0	32.90	24.10
2	1.5	42.72	33.92
3	2.0	52.40	43.60
4	2.5	60.45	51.65
5	3.0	77.75	68.95

# Step Drawdown Test

Well Code: T-05/1  
Site Code: T-05  
S.W.L. (m): 8.80

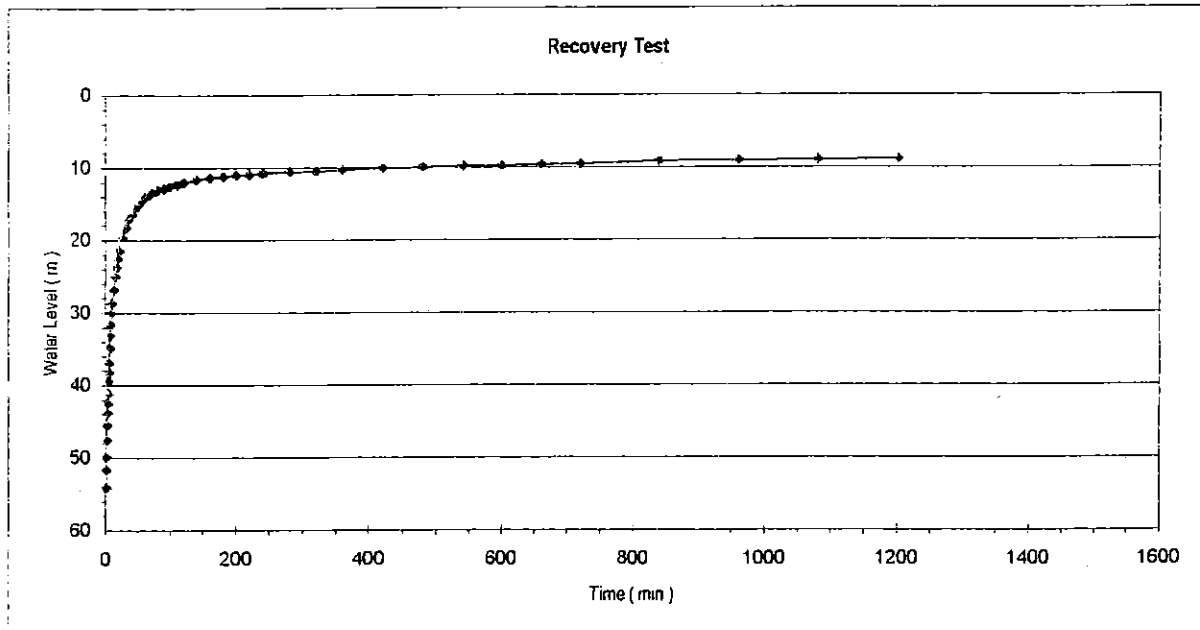
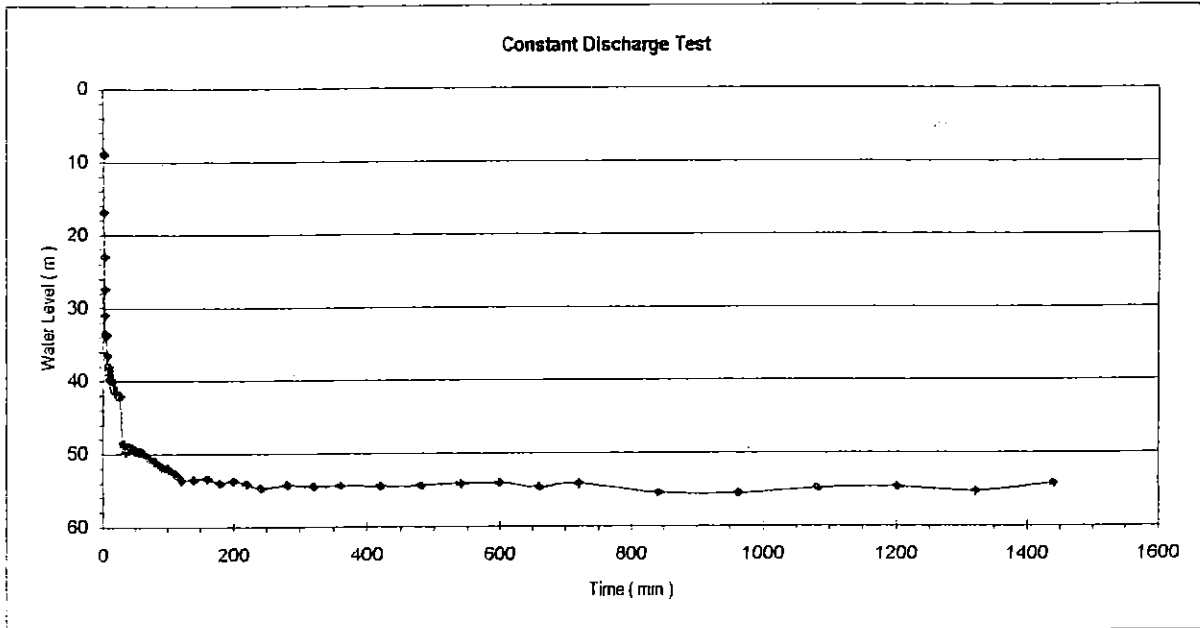
Site Name: Al Azaez



# Constant Discharge Test

Well Code: T-05/1  
Site Code: T-05  
S.W.L. (m): 8.99  
Yield (L/sec): 2.0

Site Name: Al Azaez  
D.W.L. (m): 54.18 Drawdown (m): 45.19



## Pumping Test Report Sheet

Well code: T-06 Site code: T-06 Site name: Al Khunha

District: Al Wazieyah Governorate: Taiz

Target water source: New projected deep well Well depth: 200 m

Contractor: Abdulkhaleg M. AL- Goli

Hydrogeologist in charge: Ali Abdullah Nagi AL- Gounaid

Operator: Mohammed Abdu Abdullah

Date of start of the test: 06/07/2006 Date of end of the test: 10/07/2006

Pump type: Vertical pump Engine: Iveco aifo

Pump installation depth: 142 m Datum level: 0.73 m S.W.L.: G.L.+0.53 m

### Step drawdown test

Date/hour started: 7-7-2006-9:02am Date/hour finished: 8-7-2006-9:00am Total hours: 24:02

Yield (l/sec): 1<sup>st</sup> step 2.20 2<sup>nd</sup> step 4.40 3<sup>rd</sup> step 6.60 4<sup>th</sup> step 8.80 5<sup>th</sup> step 11.00

Water level before start the test (G.L.-m): -0.37

Water level after end of 5<sup>th</sup> step (G.L.-m): 5.23

Water level after recovery (G.L.-m): -0.05 Recovery hours: 14:00

### Constant discharge test

Date/hour started: 8-7-2006-9:00am Date/hour finished: 10-7-2006-5:00am Total hours: 44:00

Yield (l/sec): 8.80

Water level before start of the test (G.L.-m): -0.05

Water level after end of test (G.L.-m): 5.62

Water level after recovery (G.L.-m): -0.17 Recovery hours: 20:00

Drawdown (m): 5.67

Revised by:

\_\_\_\_\_

Name :

Date:

## Provisional Step Drawdown Test (1/2)

Well Code: T-06                      Site code: T-06                      Pump on date/hour: 7-7-2006-9:02am  
 Site name: Al Khunha                      Pump off date/hour: 7-7-2006-7:02pm  
 District: Al Wazieyah                      End of recovery hour: 8-7-2006-9:00am  
 Governorate: Taiz                      S.W.L ( m ): 0.36

Contractor: Abdulkhaleg M. AL- Goli  
 Hydrogeologist: Ali Abdullah Nagi AL- Gounaid  
 Operator: Mohammed Abdu Abdullah

Duration ( min )	1st Step		2nd Step		3rd Step		4th Step		5th Step		Recovery ( m )
	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	
0.0	0.36	2.20	1.17	4.40	2.15	6.60	3.28	8.80	4.42	11.00	5.96
0.5	1.65		1.35		2.43		3.65		5.12		3.55
1.0	1.70		1.45		2.54		3.74		5.20		2.97
1.5	1.20		1.67		3.10		3.90		5.23		2.84
2.0	1.18		1.87		3.27		3.95		5.25		5.69
2.5	1.10		1.93		3.20		3.96		5.27		2.64
3.0	1.00		1.97		3.20		3.96		5.30		2.57
3.5	0.93		1.95		3.14		3.96		5.30		2.52
4.0	0.80		1.94		3.18		3.96		5.32		2.48
4.5	0.93		1.94		3.03		3.96		5.33		2.43
5.0	0.95		1.91		2.90		3.97		5.34		2.39
6.0	0.96		1.88		2.94		3.98		5.36		2.33
7.0	0.96		1.91		2.94		4.00		5.37		2.27
8.0	0.94		1.92		2.95		4.00		5.39		2.24
9.0	0.96		1.93		2.96		4.01		5.43		2.18
10.0	0.94		1.93		2.96		4.02		5.45		2.15
12.0	0.96		1.94		2.96		4.03		5.46		2.08
14.0	0.95		1.95		2.97		4.05		5.47		2.04
16.0	0.95		1.96		2.98		4.07		5.48		1.90
18.0	1.01		1.97		2.99		4.08		5.51		1.91
20.0	1.01		1.97		3.00		4.12		5.53		1.92
25.0	1.02		2.00		3.03		4.12		5.56		1.86
30.0	1.04		2.02		3.06		4.13		5.59		1.78
35.0	1.10		2.02		3.09		4.18		5.61		1.73
40.0	1.11		2.03		3.10		4.19		5.64		1.69
45.0	1.12		2.04		3.11		4.20		5.67		1.66
50.0	1.13		2.05		3.14		4.21		5.69		1.66
55.0	1.13		2.06		3.15		4.23		5.71		1.63
60.0	1.14		2.08		3.16		4.26		5.73		1.58
70.0	1.13		2.10		3.19		4.29		5.76		1.53
80.0	1.15		2.12		3.20		4.30		5.83		1.51
90.0	1.16		2.13		3.24		4.33		5.85		1.48
100.0	1.16		2.14		3.25		4.37		5.90		1.47
110.0	1.17		2.14		3.27		4.40		5.92		1.42
120.0	1.17		2.15		3.28		4.42		5.96		1.36
140.0											1.32
160.0											1.24
180.0											1.24
200.0											1.21
220.0											1.15



## Step Drawdown Test (1/2)

Well Code: T-06      Site code: T-06      Pump on date/hour: 7-7-2006-9:02am  
 Site name: Al Khunha      Pump off date/hour: 7-7-2006-7:02pm  
 District: Al Wazieyah      End of recovery hour: 8-7-2006-9:00am  
 Governorate: Taiz      S.W.L ( m ): 0.36

Contractor: Abdulkhaleg M. AL- Goli  
 Hydrogeologist: Ali Abdullah Nagi AL- Gounaid  
 Operator: Mohammed Abdu Abdullah

Duration ( min )	1st Step		2nd Step		3rd Step		4th Step		5th Step		Recovery ( m )
	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	W.L. ( m )	Yield ( l/sec )	
0.0	0.36	2.20	1.17	4.40	2.15	6.60	3.28	8.80	4.42	11.00	5.96
0.5	1.65		1.35		2.43		3.65		5.12		3.55
1.0	1.70		1.45		2.54		3.74		5.20		2.97
1.5	1.20		1.67		3.10		3.90		5.23		2.84
2.0	1.18		1.87		3.27		3.95		5.25		5.69
2.5	1.10		1.93		3.20		3.96		5.27		2.64
3.0	1.00		1.97		3.20		3.96		5.30		2.57
3.5	0.93		1.95		3.14		3.96		5.30		2.52
4.0	0.80		1.94		3.18		3.96		5.32		2.48
4.5	0.93		1.94		3.03		3.96		5.33		2.43
5.0	0.95		1.91		2.90		3.97		5.34		2.39
6.0	0.96		1.88		2.94		3.98		5.36		2.33
7.0	0.96		1.91		2.94		4.00		5.37		2.27
8.0	0.94		1.92		2.95		4.00		5.39		2.24
9.0	0.96		1.93		2.96		4.01		5.43		2.18
10.0	0.94		1.93		2.96		4.02		5.45		2.15
12.0	0.96		1.94		2.96		4.03		5.46		2.08
14.0	0.95		1.95		2.97		4.05		5.47		2.04
16.0	0.95		1.96		2.98		4.07		5.48		1.90
18.0	1.01		1.97		2.99		4.08		5.51		1.91
20.0	1.01		1.97		3.00		4.12		5.53		1.92
25.0	1.02		2.00		3.03		4.12		5.56		1.86
30.0	1.04		2.02		3.06		4.13		5.59		1.78
35.0	1.10		2.02		3.09		4.18		5.61		1.73
40.0	1.11		2.03		3.10		4.19		5.64		1.69
45.0	1.12		2.04		3.11		4.20		5.67		1.66
50.0	1.13		2.05		3.14		4.21		5.69		1.66
55.0	1.13		2.06		3.15		4.23		5.71		1.63
60.0	1.14		2.08		3.16		4.26		5.73		1.58
70.0	1.13		2.10		3.19		4.29		5.76		1.53
80.0	1.15		2.12		3.20		4.30		5.83		1.51
90.0	1.16		2.13		3.24		4.33		5.85		1.48
100.0	1.16		2.14		3.25		4.37		5.90		1.47
110.0	1.17		2.14		3.27		4.40		5.92		1.42
120.0	1.17		2.15		3.28		4.42		5.96		1.36
140.0											1.32
160.0											1.24
180.0											1.24
200.0											1.21
220.0											1.15





## Constant Discharge & Recovery Test (1/2)

Well Code: T-06 Site code: T-06

Site name: Al Khunha

Pump on date/hour: 8-7-2006-9:00am

District: Al Wazieyah

Pump off date/hour: 9-7-2006-9:00am

Governorate: Taiz

End of recovery hour: 10-7-2006-5:00am

Contractor: Abdulkhaleg M. AL- Goli

S.W.L ( m ): 0.68

Hydrogeologist: Ali Abdullah Nagi AL- Gounaid

D.W.L ( m ): 6.35

Operator: Mohammed Abdu Abdullah

Yield (l/sec): 8.8

Duration ( min )	Constant Discharge Test			Recovery Test		Water Analysis	Remarks
	Water level (m)	Drawdown (m)	Pumping rate (l/sec)	Water level (m)	Residual (m)	Conductivity ( )	
0.0	0.68	0.00		6.35	5.67		
0.5	2.75	2.07		4.66	3.98		
1.0	3.27	2.59		4.18	3.50		
1.5	3.25	2.57		4.08	3.40		
2.0	3.16	2.48		4.03	3.35		
2.5	3.20	2.52		3.97	3.29		
3.0	3.22	2.54		3.90	3.22		
3.5	3.23	2.55		3.89	3.21		
4.0	3.24	2.56		3.85	3.17		
4.5	3.25	2.57		3.81	3.13		
5.0	3.27	2.59		3.75	3.07		
6.0	3.34	2.66		3.73	3.05		
7.0	3.38	2.70		3.68	3.00		
8.0	3.41	2.73		3.64	2.96		
9.0	3.44	2.76		3.60	2.92		
10.0	3.47	2.79		3.57	2.89		
12.0	3.51	2.83		3.53	2.85		
14.0	3.55	2.87		3.48	2.80		
16.0	3.60	2.92		3.45	2.77		
18.0	3.64	2.96		3.43	2.75		
20.0	3.68	3.00		3.40	2.72		
25.0	3.76	3.08		3.35	2.67		
30.0	3.80	3.12		3.30	2.62		
35.0	3.84	3.16		3.25	2.57		
40.0	3.88	3.20		3.20	2.52		
45.0	3.92	3.24		3.18	2.50		
50.0	3.96	3.28		3.15	2.47		
55.0	4.00	3.32		3.13	2.45		
60.0	4.02	3.34		3.10	2.42		

## Constant Discharge & Recovery Test (2/2)

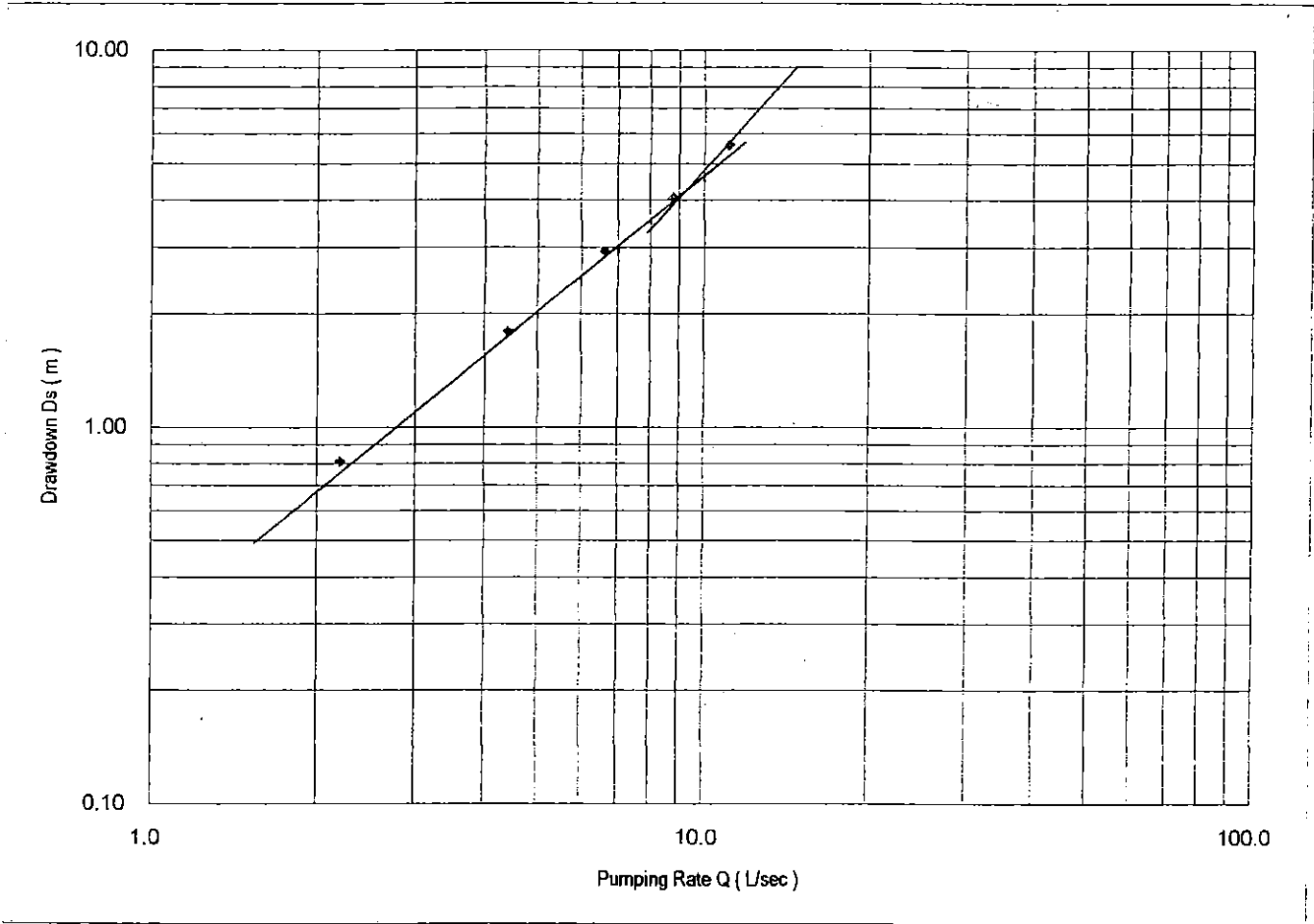
Well Code: T-06      Site code: T-06      Site name: Al Khunha  
 District: Al Wazieyah      Governorate: Taiz

Duration ( min )	Constant Discharge Test			Recovery Test		Water Analysis	Remarks
	Water level (m)	Drawdown (m)	Pumping rate (l/sec)	Water level (m)	Residual (m)	Conductivity ( )	
70.0	4.07	3.39		3.06	2.38		
80.0	4.10	3.42		3.00	2.32		
90.0	4.13	3.45		2.90	2.22		
100.0	4.16	3.48		2.87	2.19		
110.0	4.19	3.51		2.84	2.16		
120.0	4.22	3.54		2.80	2.12		
140.0	4.30	3.62		2.76	2.08		
160.0	4.36	3.68		2.72	2.04		
180.0	4.42	3.74		2.68	2.00		
200.0	4.47	3.79		2.63	1.95		
220.0	4.54	3.86		2.58	1.90		
240.0	4.60	3.92		2.53	1.85		
280.0	4.88	4.20		2.40	1.72		
320.0	4.92	4.24		2.31	1.63		
360.0	4.96	4.28		2.20	1.52		
420.0	5.02	4.34		2.12	1.44		
480.0	5.10	4.42		1.91	1.23		
540.0	5.19	4.51		1.69	1.01		
600.0	5.25	4.57		1.53	0.85		
660.0	5.39	4.71		1.41	0.73		
720.0	5.48	4.80		1.07	0.39		
840.0	5.65	4.97		0.89	0.21		
960.0	5.84	5.16		0.81	0.13		
1080.0	5.92	5.24		0.73	0.05		
1200.0	6.13	5.45		0.61	-0.07		
1320.0	6.26	5.58					
1440.0	6.35	5.67					

## Step Drawdown Test

Well Code: T-06  
 Site Code: T-06  
 S.W.L. (m): 0.36

Site Name: Al Khunha

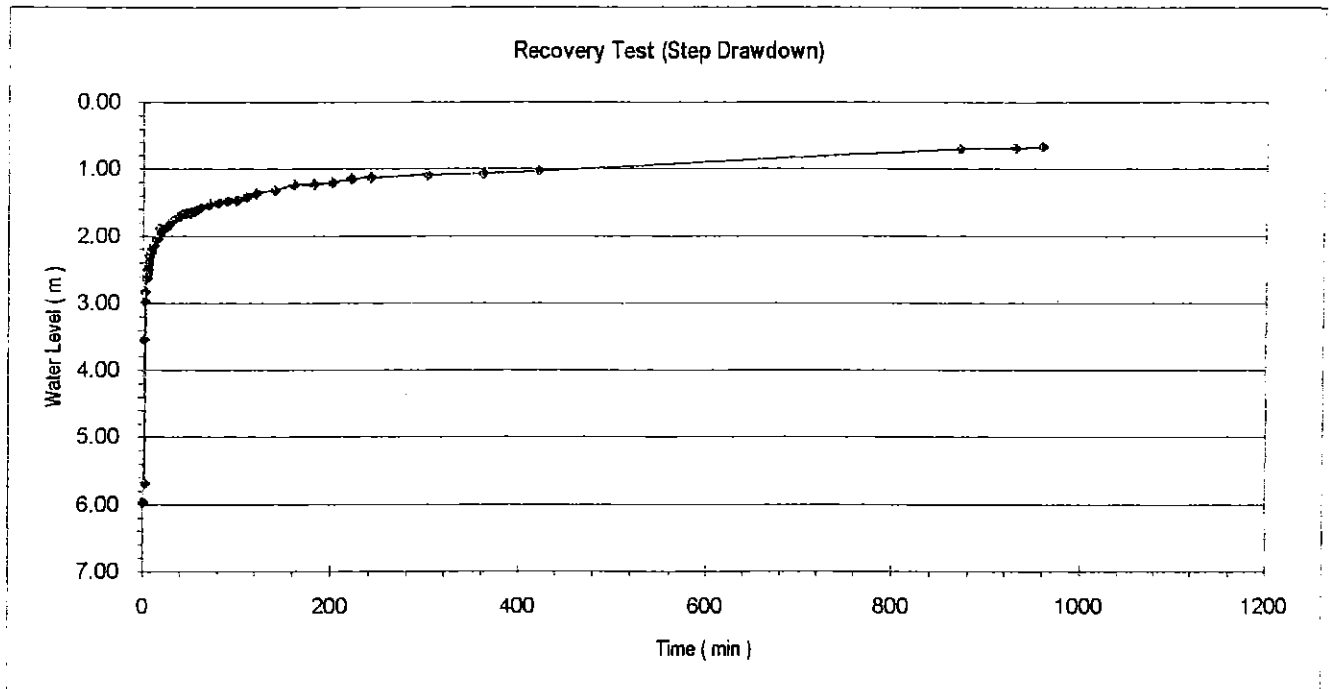
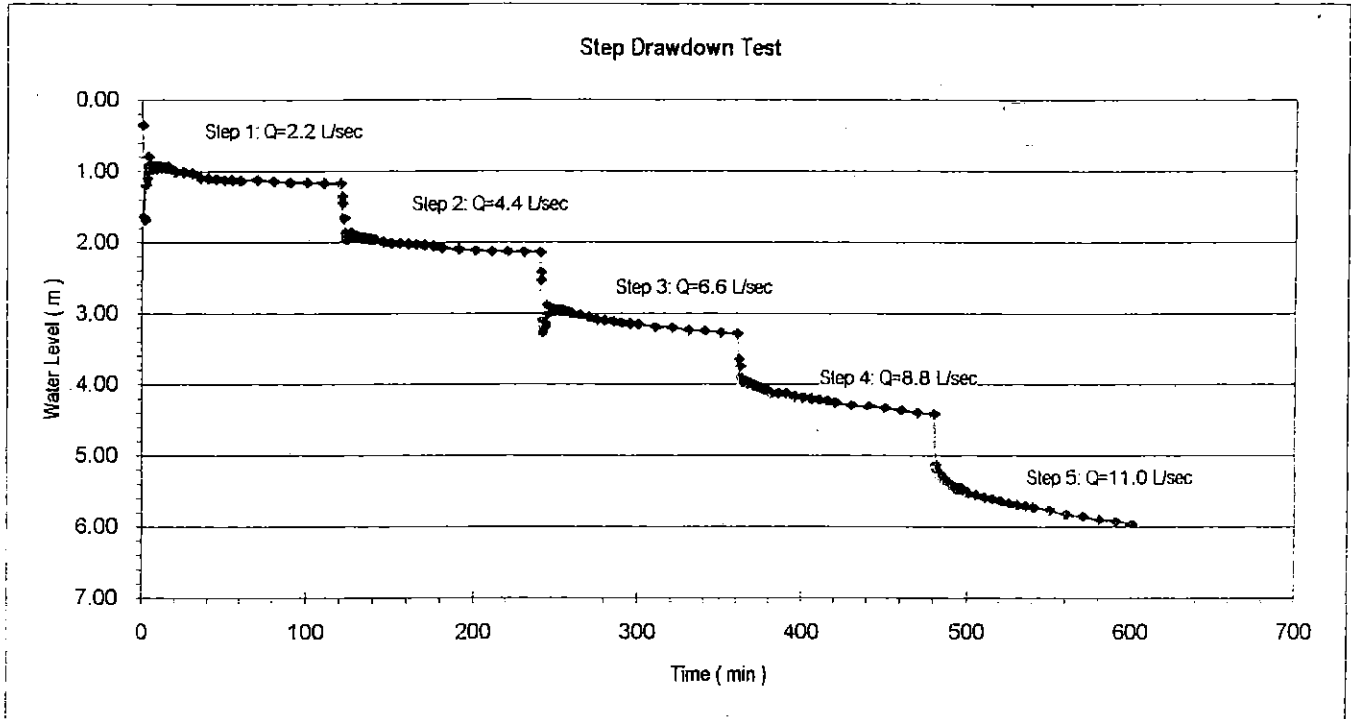


Step	Q (l/sec)	D.W.L.(m)	D s (m)
1	2.2	1.17	0.81
2	4.4	2.15	1.79
3	6.6	3.28	2.92
4	8.8	4.42	4.06
5	11.0	5.96	5.60

# Step Drawdown Test

Well Code: T-06  
Site Code: T-06  
S.W.L. (m): 0.36

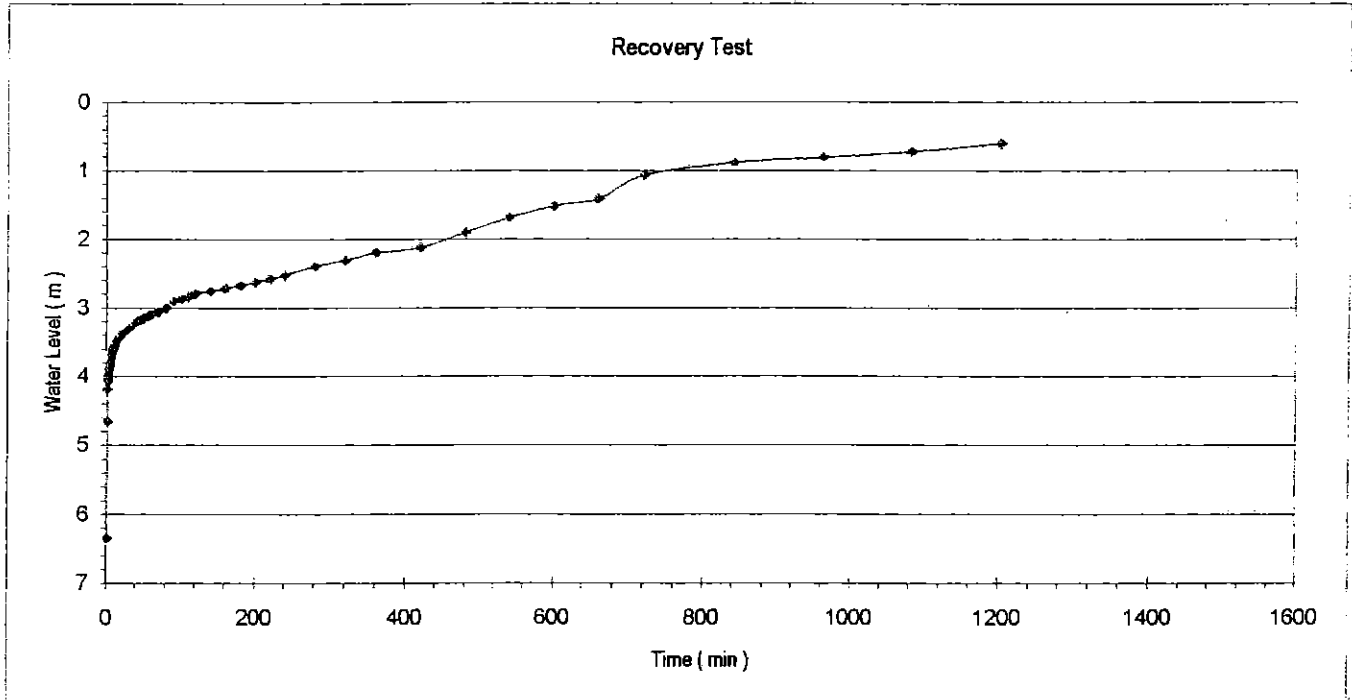
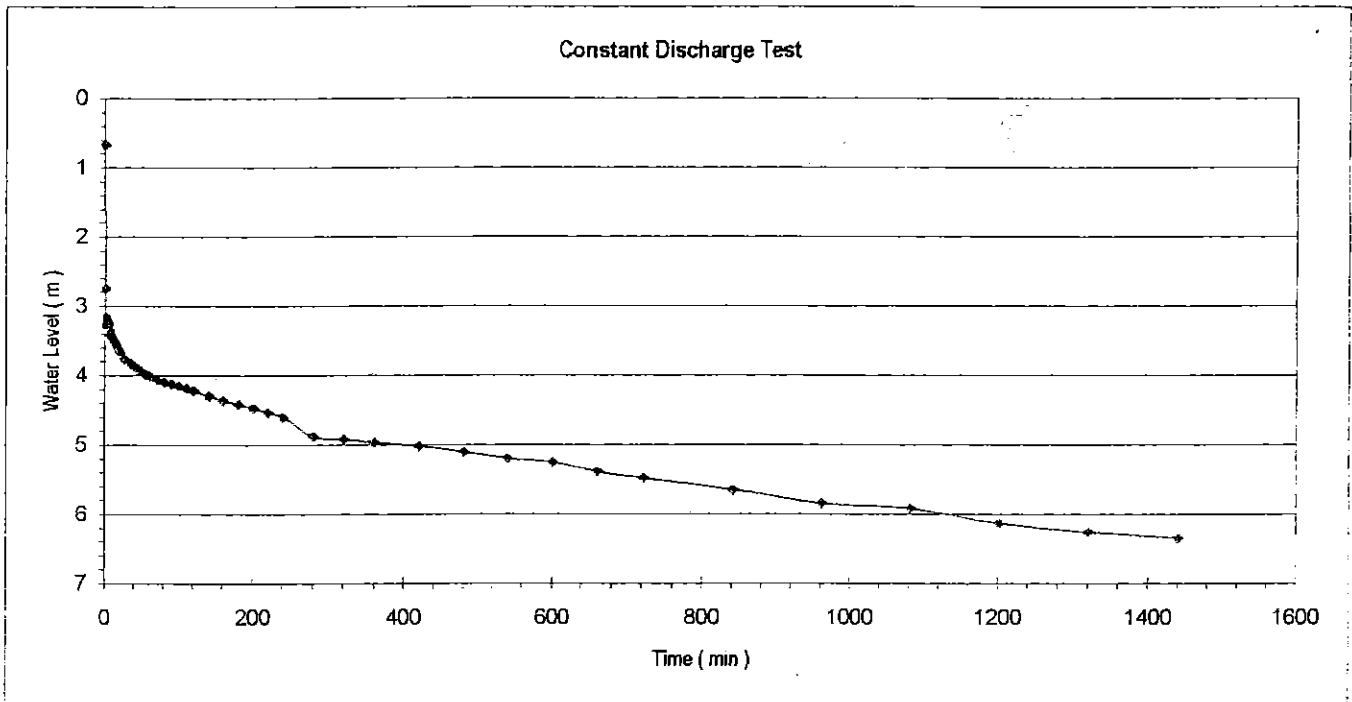
Site Name: Al Khunha



# Constant Discharge Test

Well Code: T-06  
Site Code: T-06  
S.W.L. (m): 0.68  
Yield (L/sec): 8.8

Site Name: Al Khunha  
D.W.L. (m): 6.35      Drawdown (m): 5.67

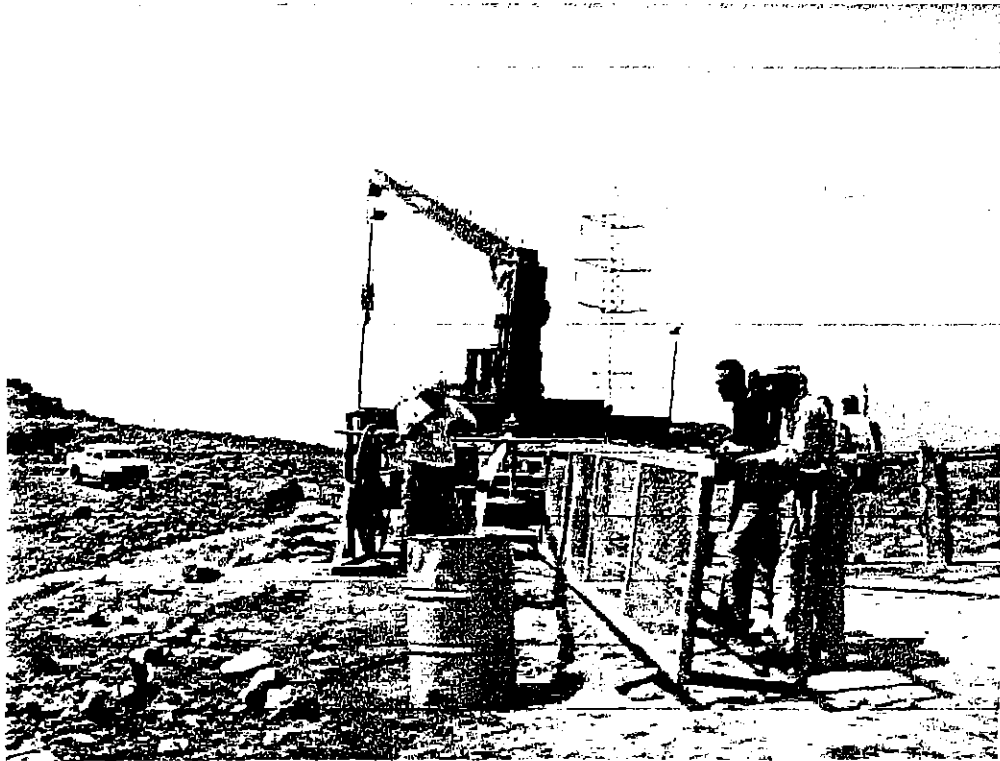


Pictures of Pumping Test Sites

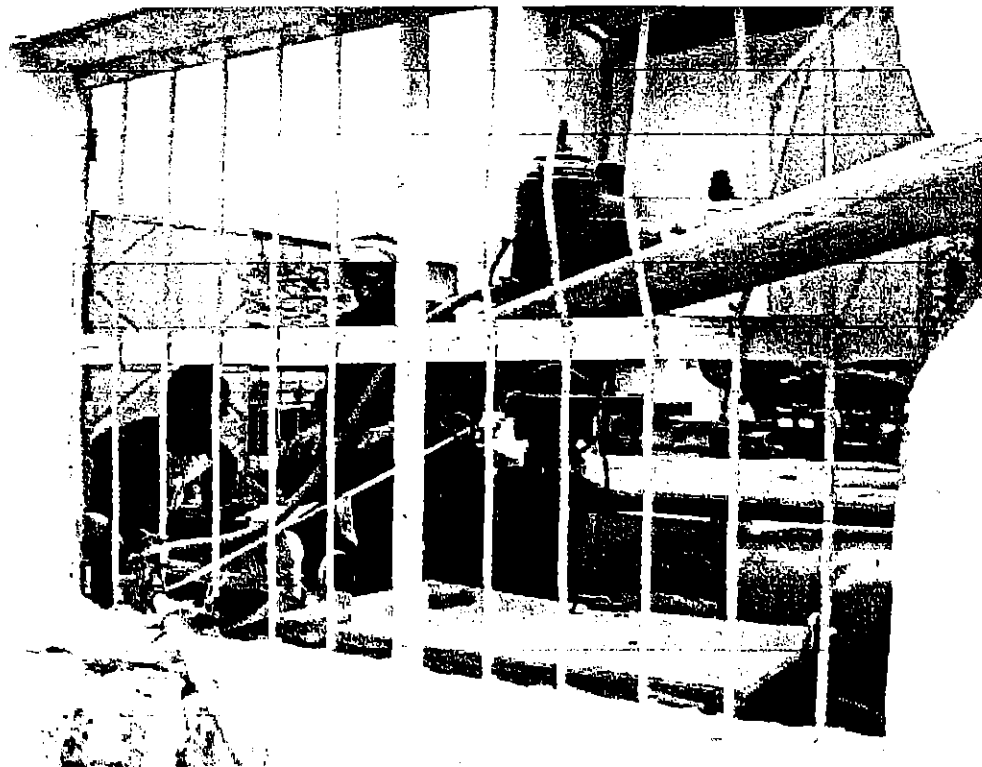
Governorates  
of

Sana'a  
&  
Taiz

Governorate: Sana'a

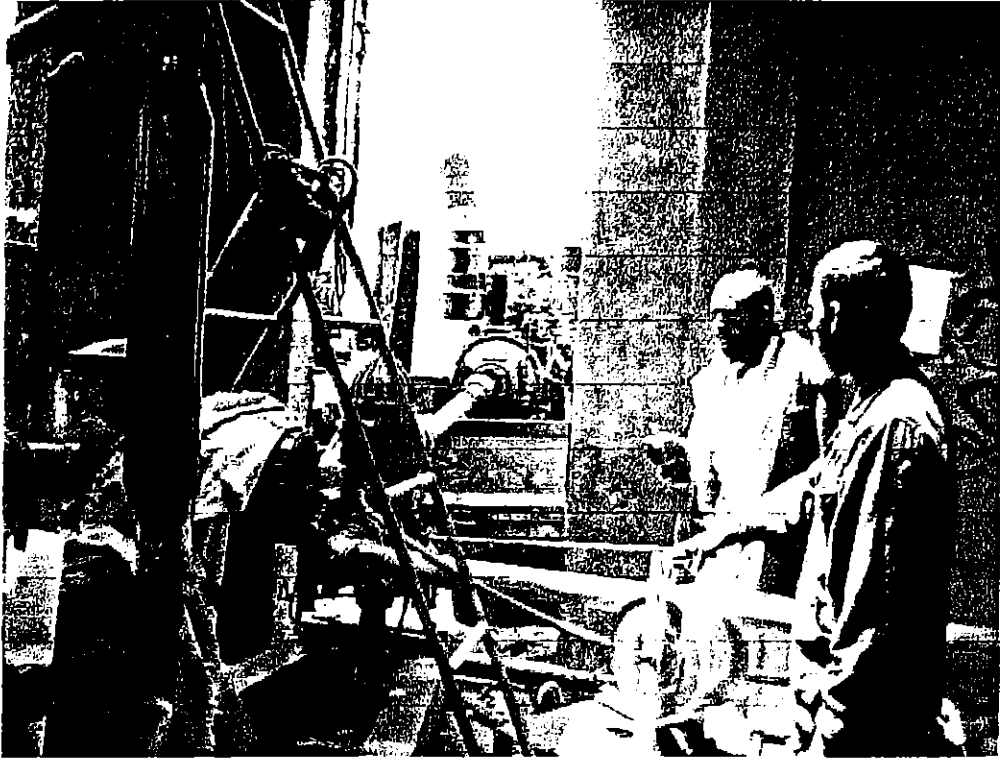


S-02 (Jarban)

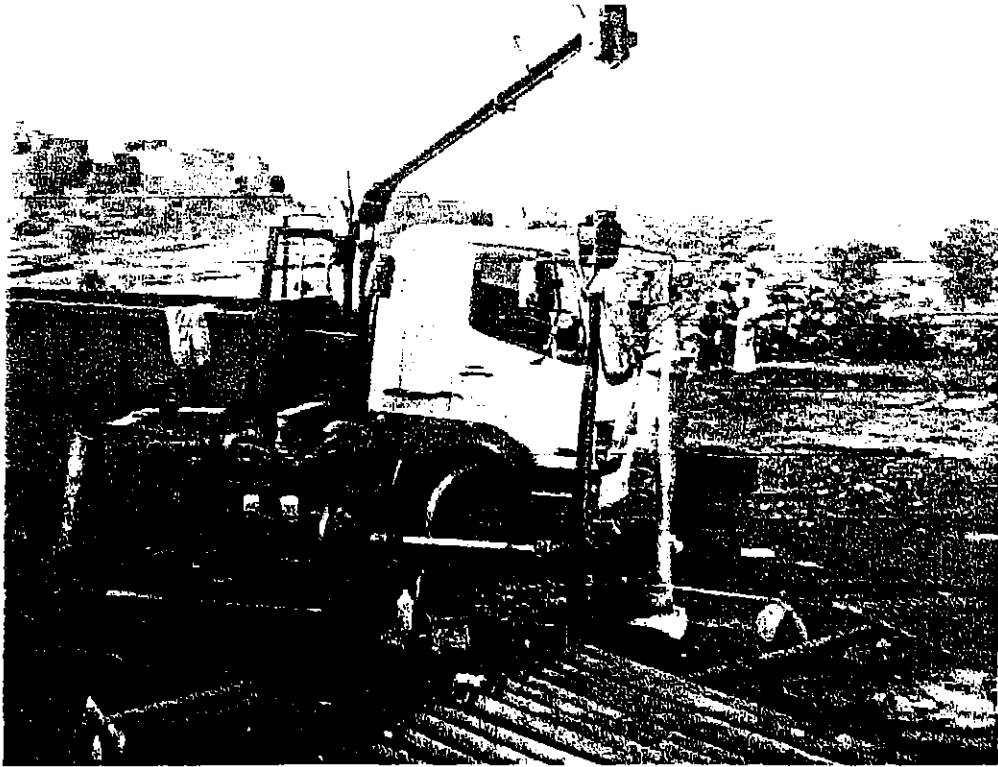


S-05 (Afesh)

Governorate: Sana'a



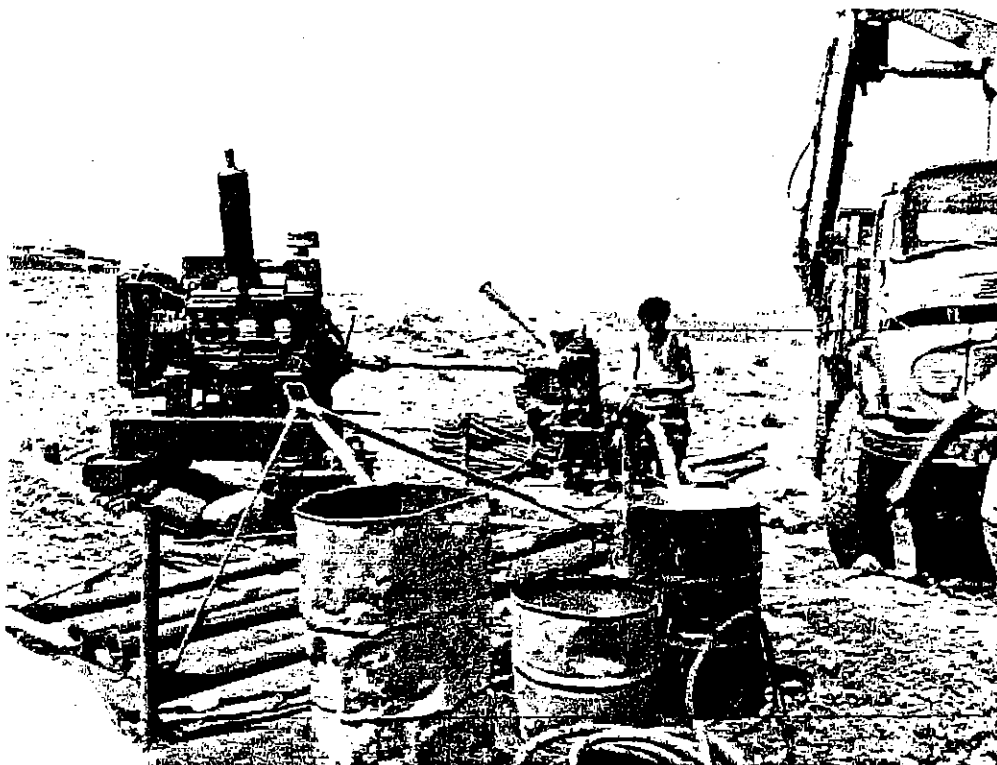
S-06 (Al Lejam)



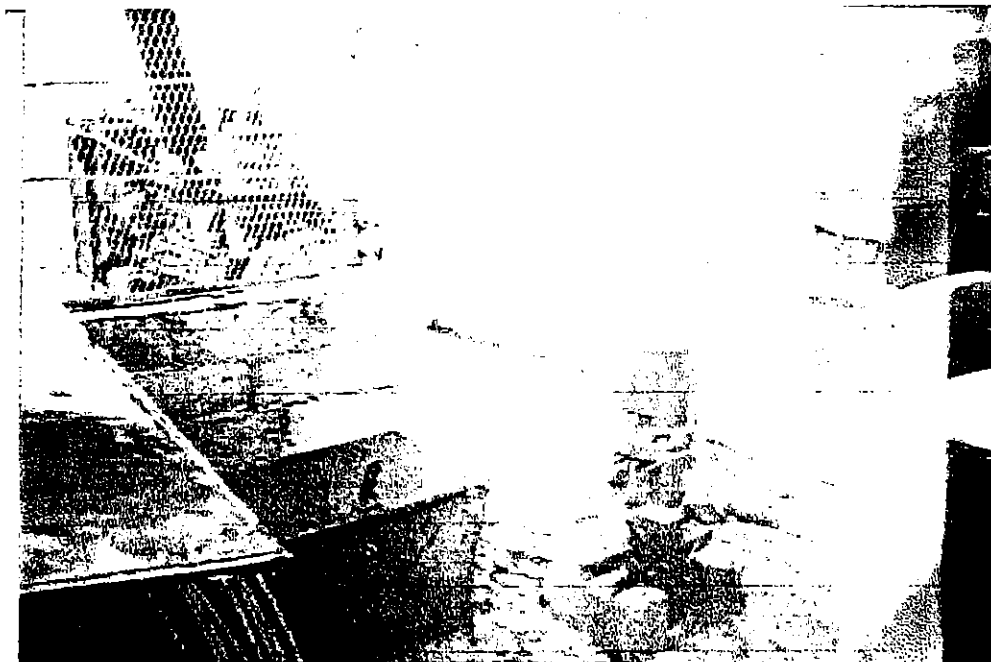
S-07 (Bait Al Hadrami)



Governorate: Sana'a

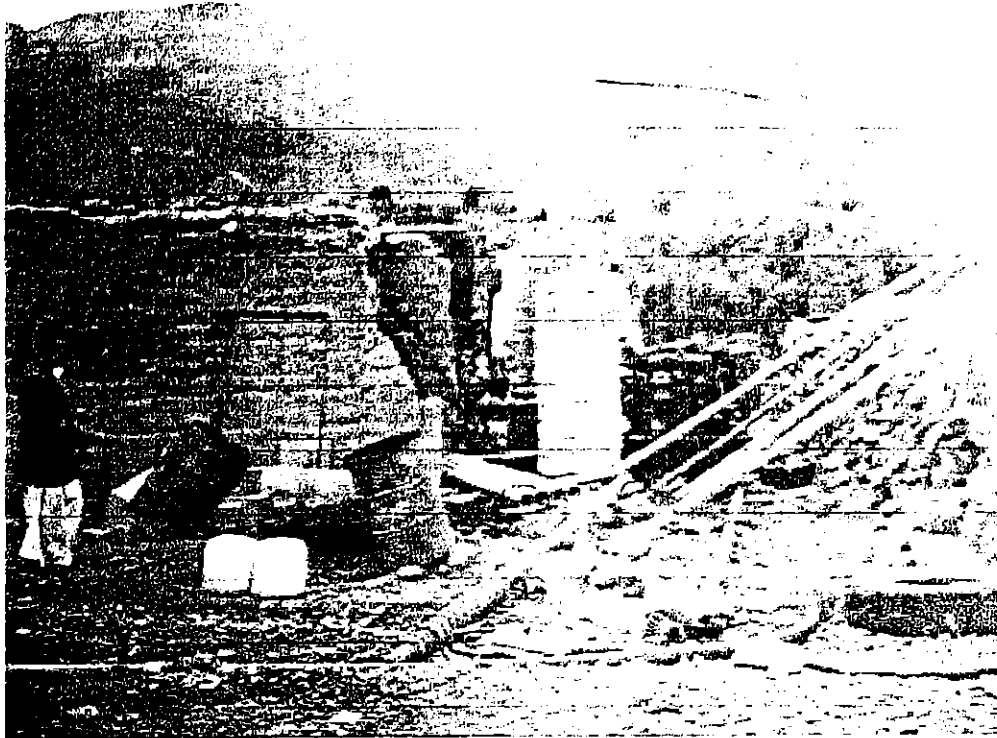


S-09 (Ruhm)

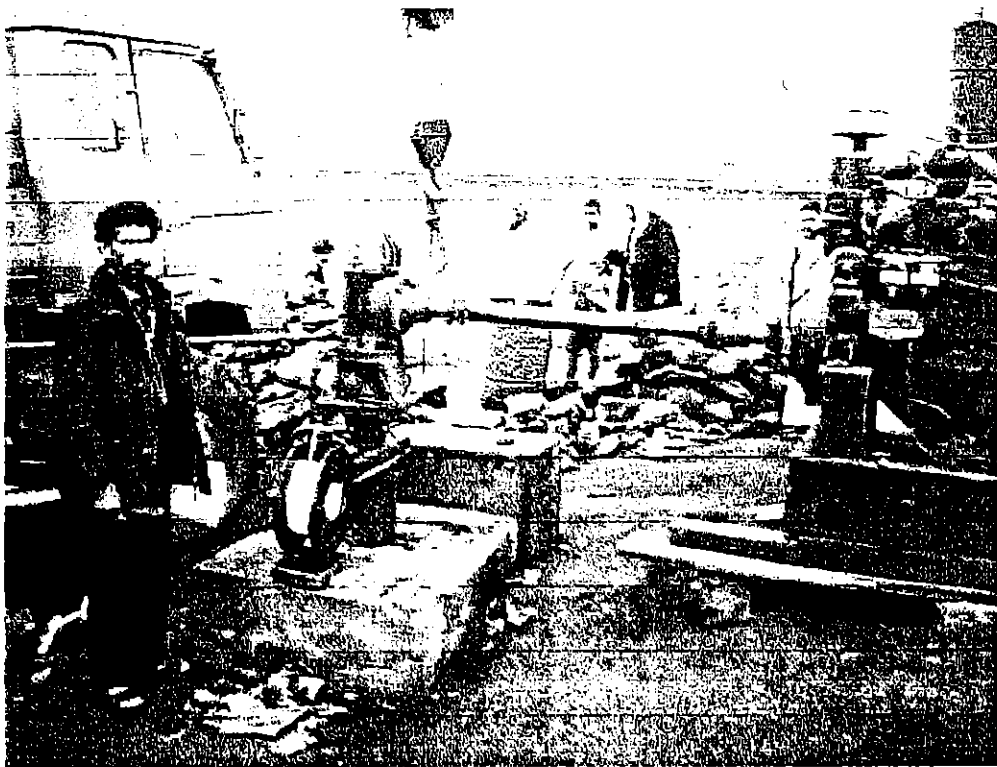


S-10/1 (Tawa'ar)

Governorate: Sana'a

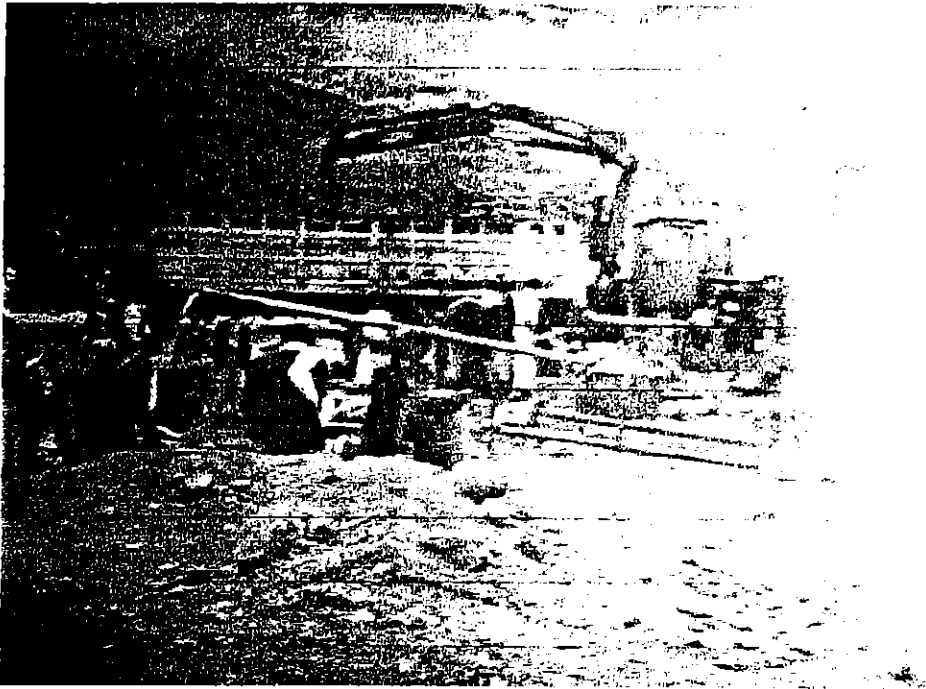


S-10/2 (Tawa'ar)

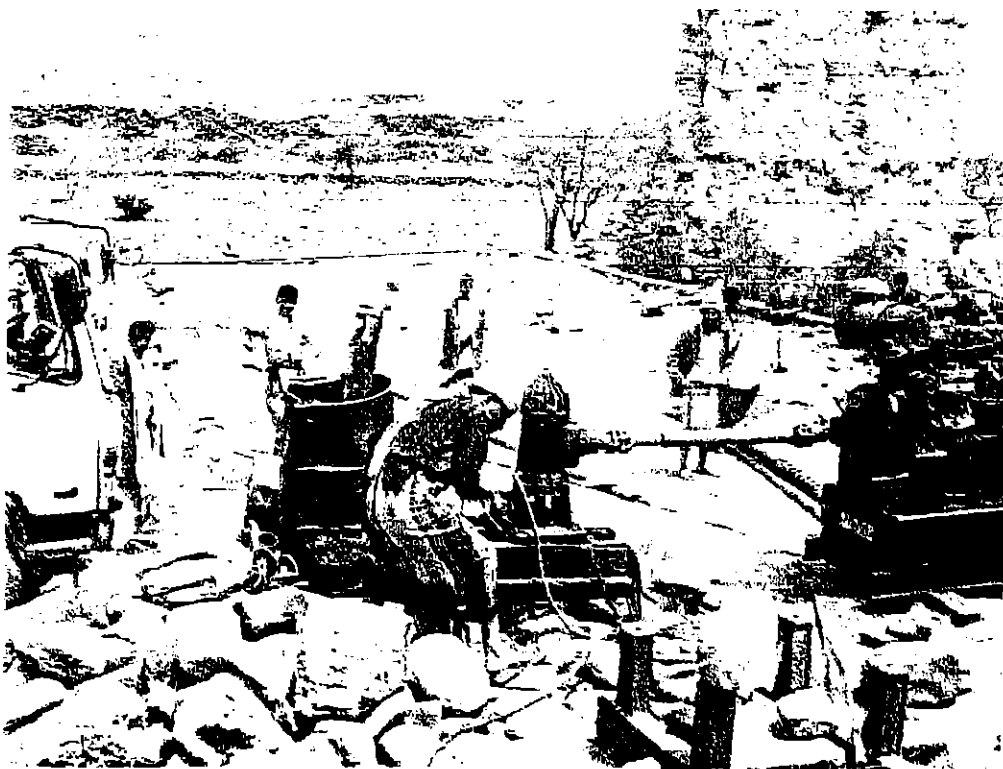


S-11/1 (Al Hesn-Al Abyad)

Governorate: Sana'a



S-12 (Mahdah)

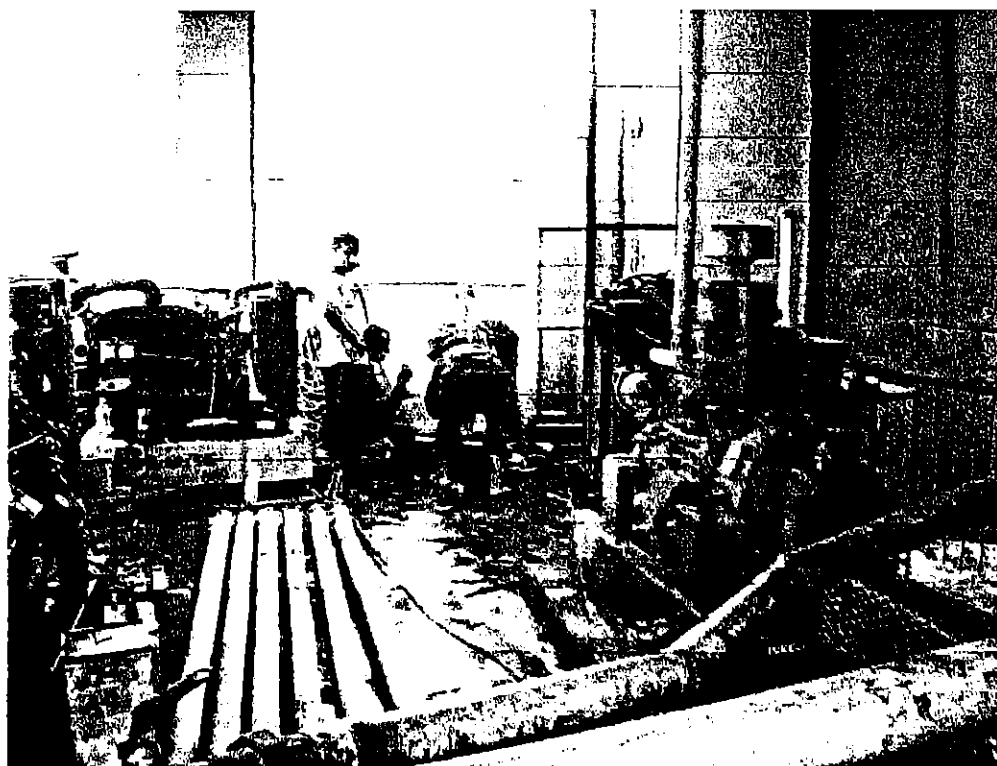


S-14 (Al Ghail)

Governorate: Taiz

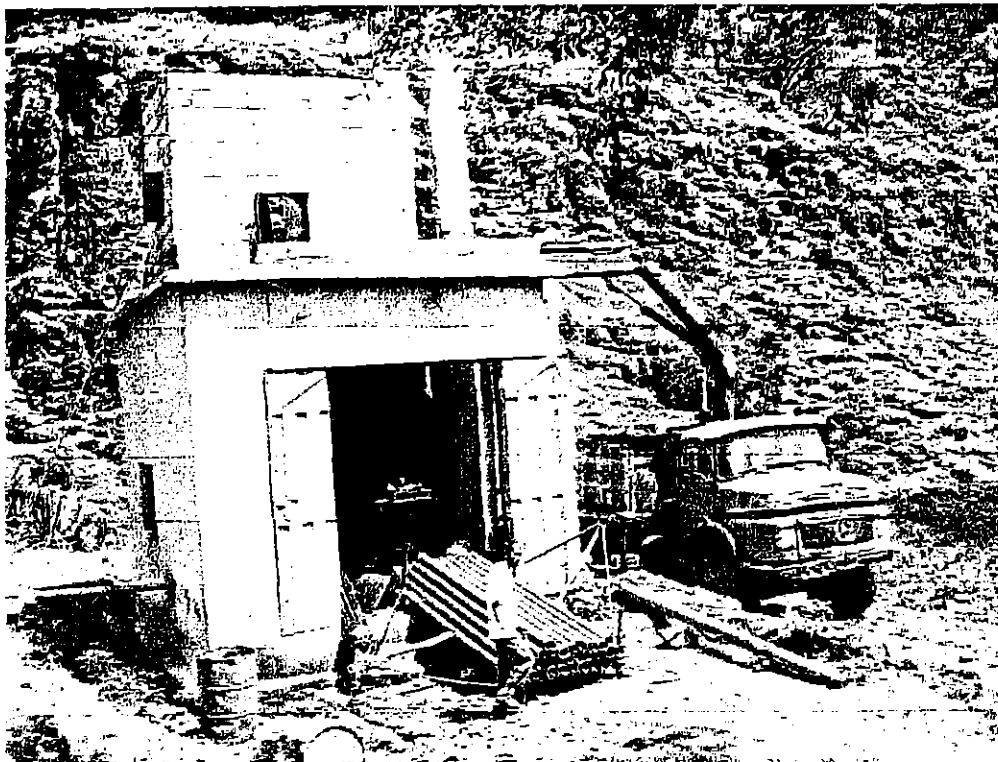


T-01 (Al Muayteeb)

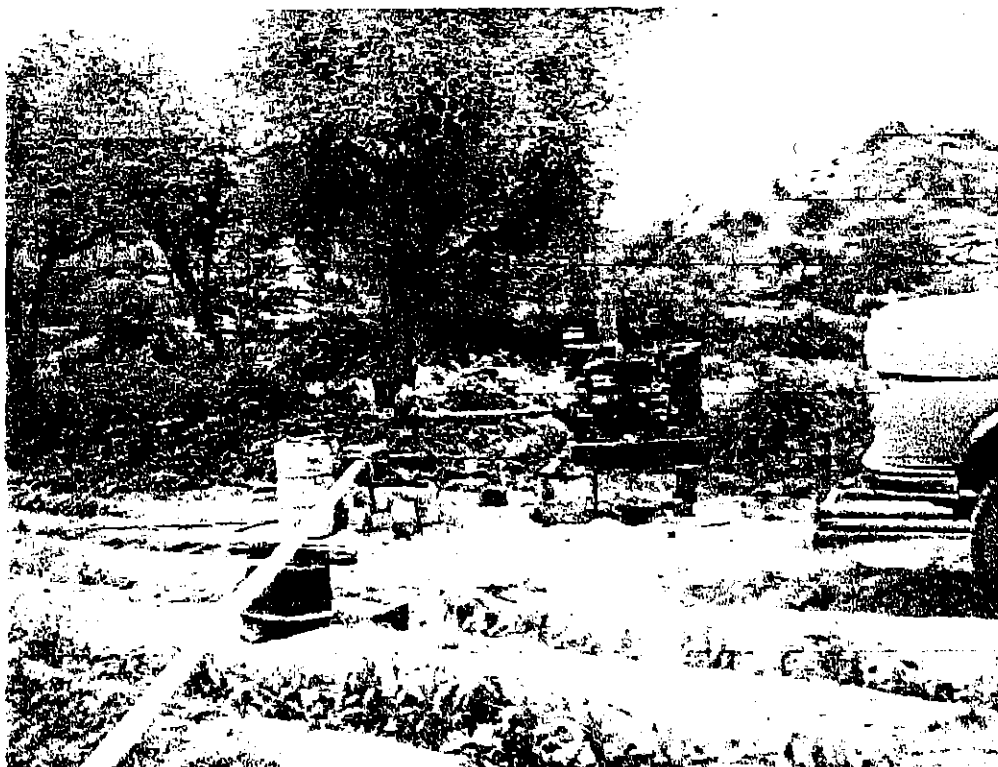


T-02/1 (Bani Al Suror – Bir1)

Governorate: Taiz



T-02/3 (Bani Al Suror – Bir3)

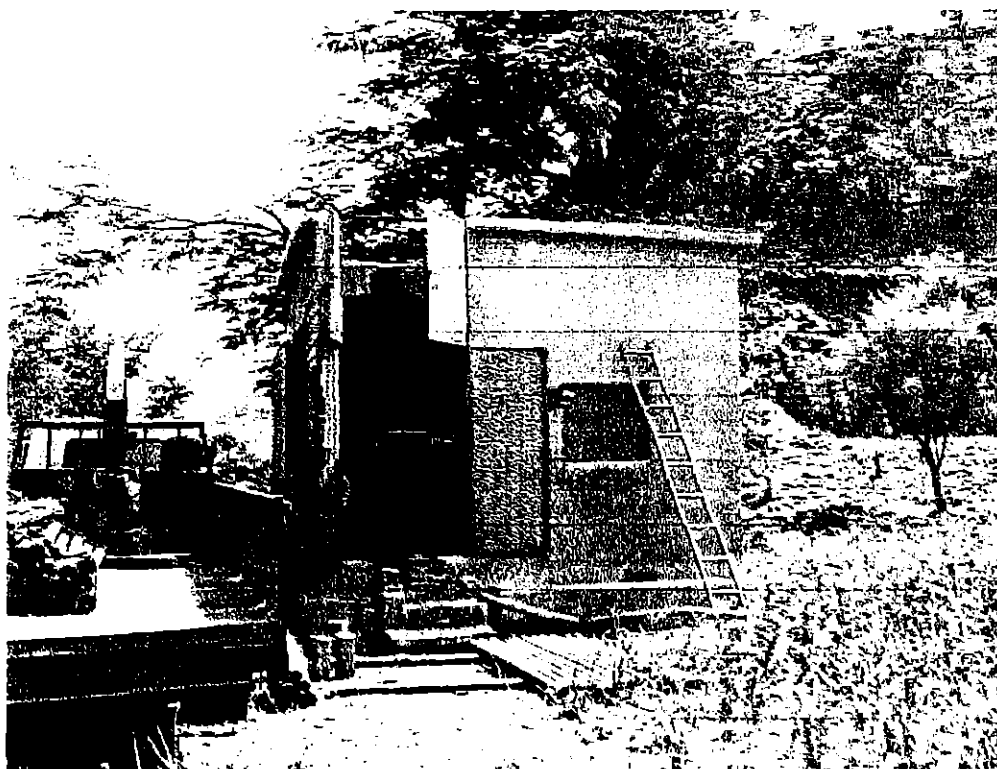


T-02/4 (Bani Al Suror – Bir4)

Governorate: Taiz

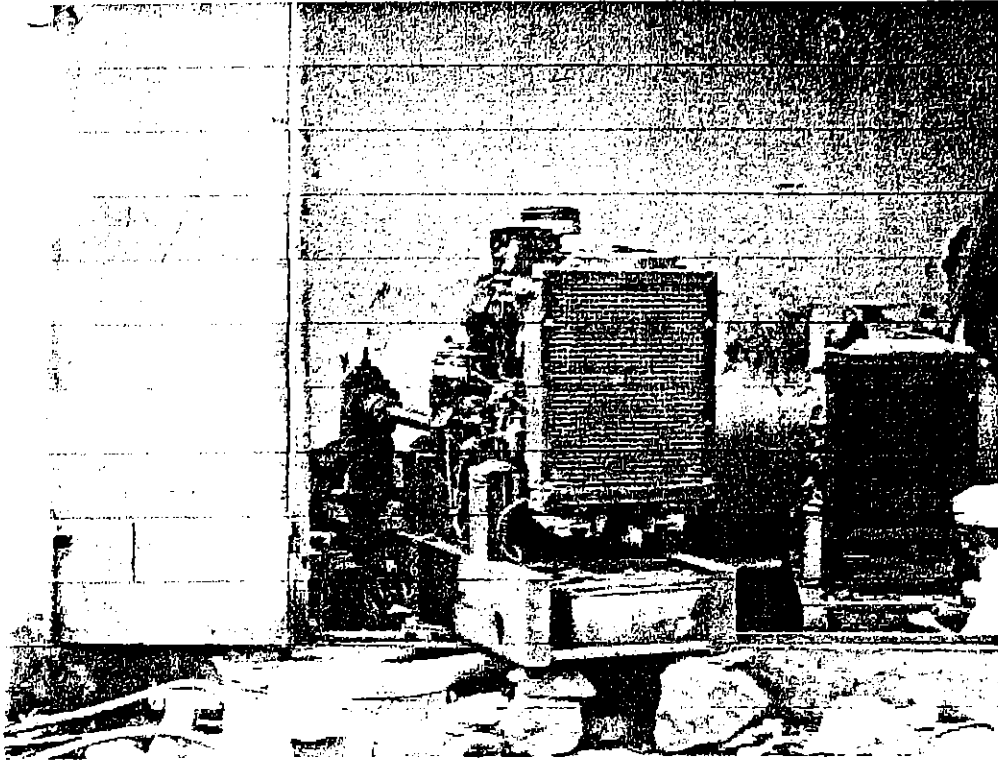


T-03/1 (Sheb Humran – Al Jah(1))

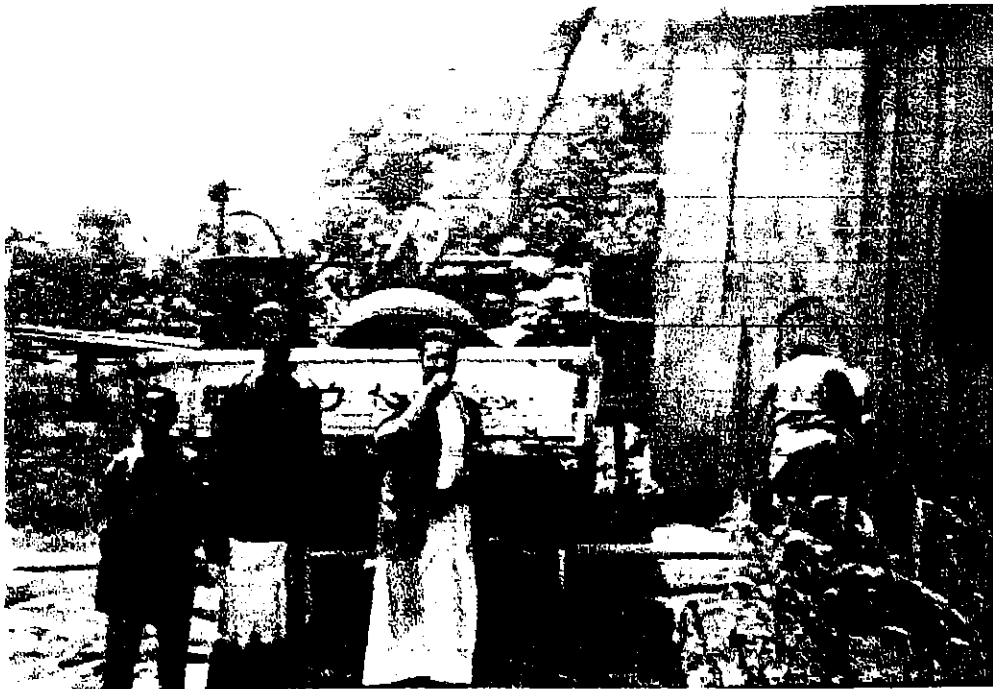


T-03/4 (Sheb Humran – Al Meashaar(4))

Governorate: Taiz

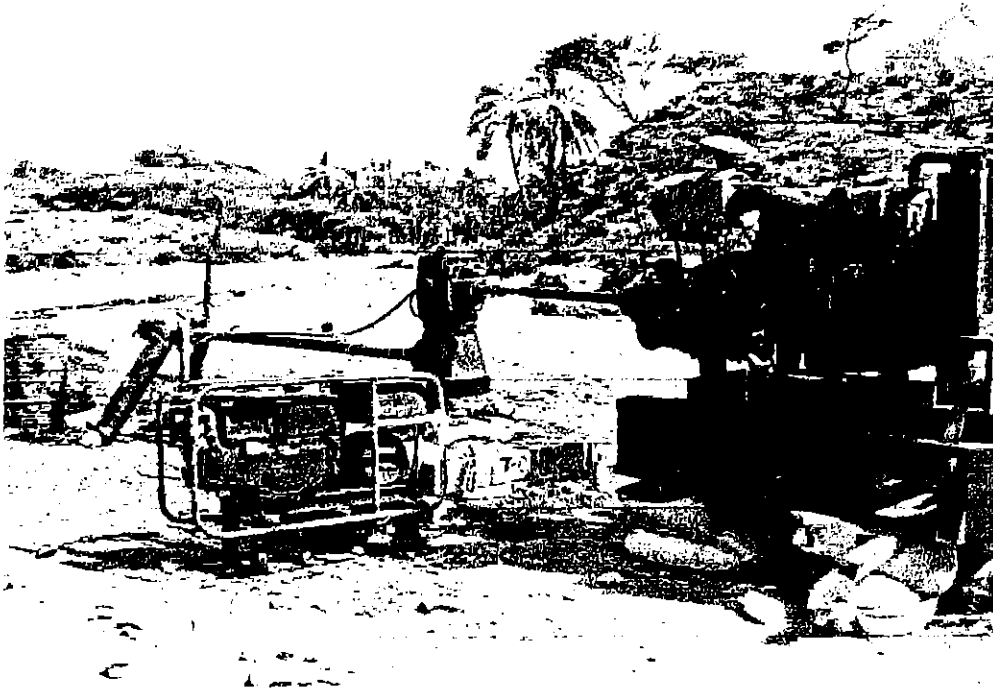


T-04 (Yafiq Bani Hamad)



T-05/1 (Al Azaez - Marda'a Alhomary(1))

Governorate: Taiz



T-06 (Al Khunha)