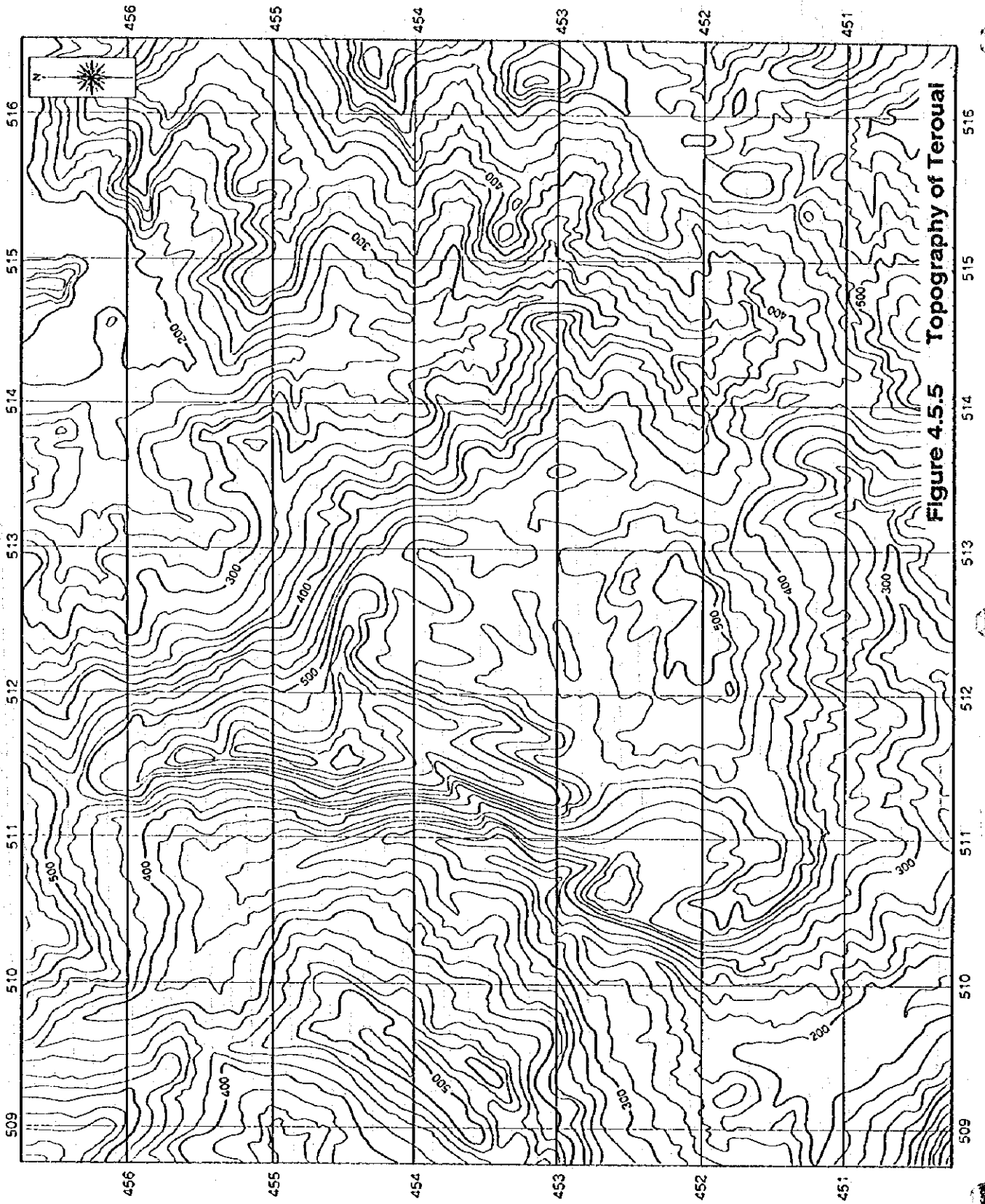


Figure 4.5.4 Location Map of Teroual



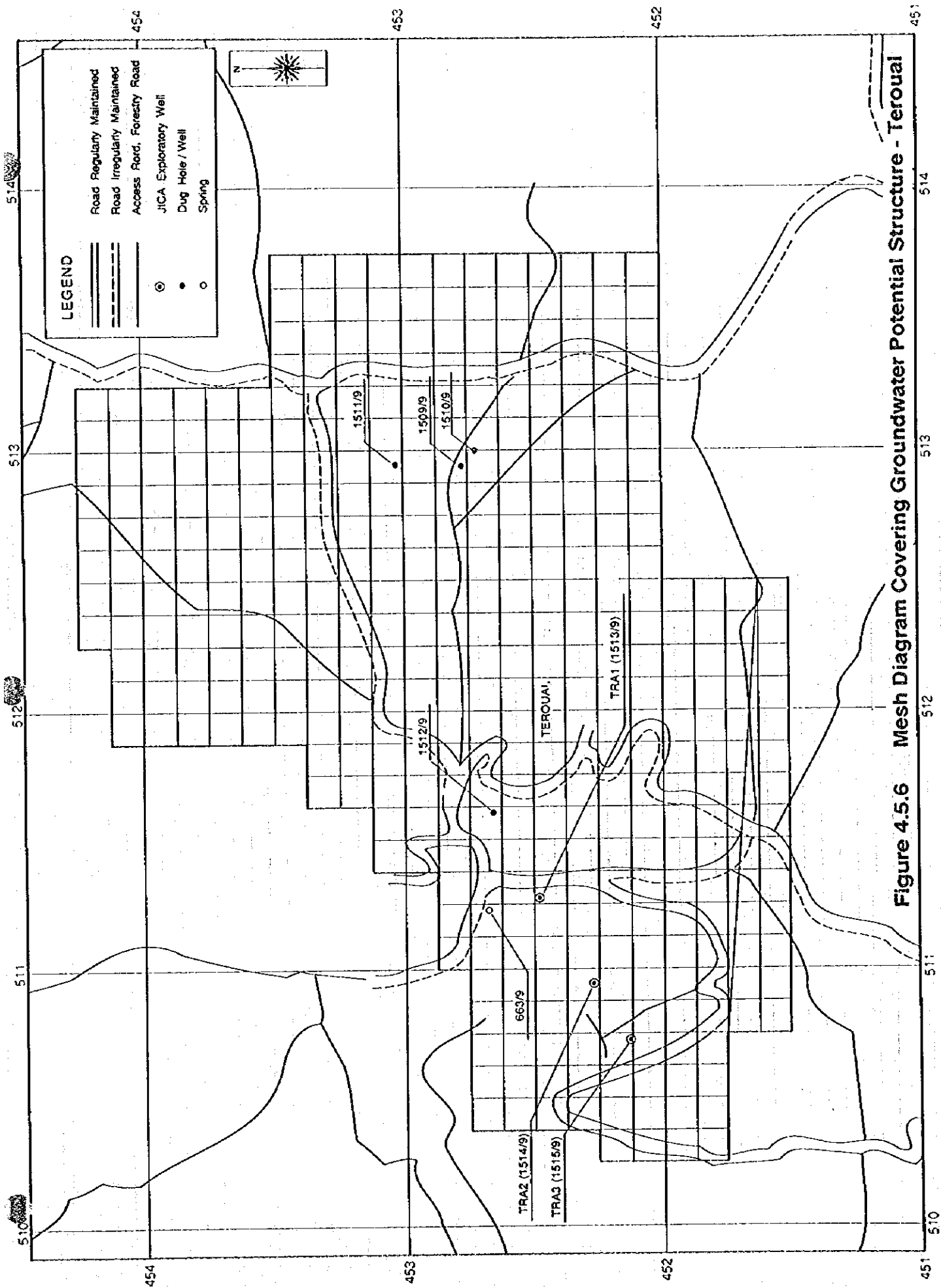


Figure 4.5.6 Mesh Diagram Covering Groundwater Potential Structure - Terouai

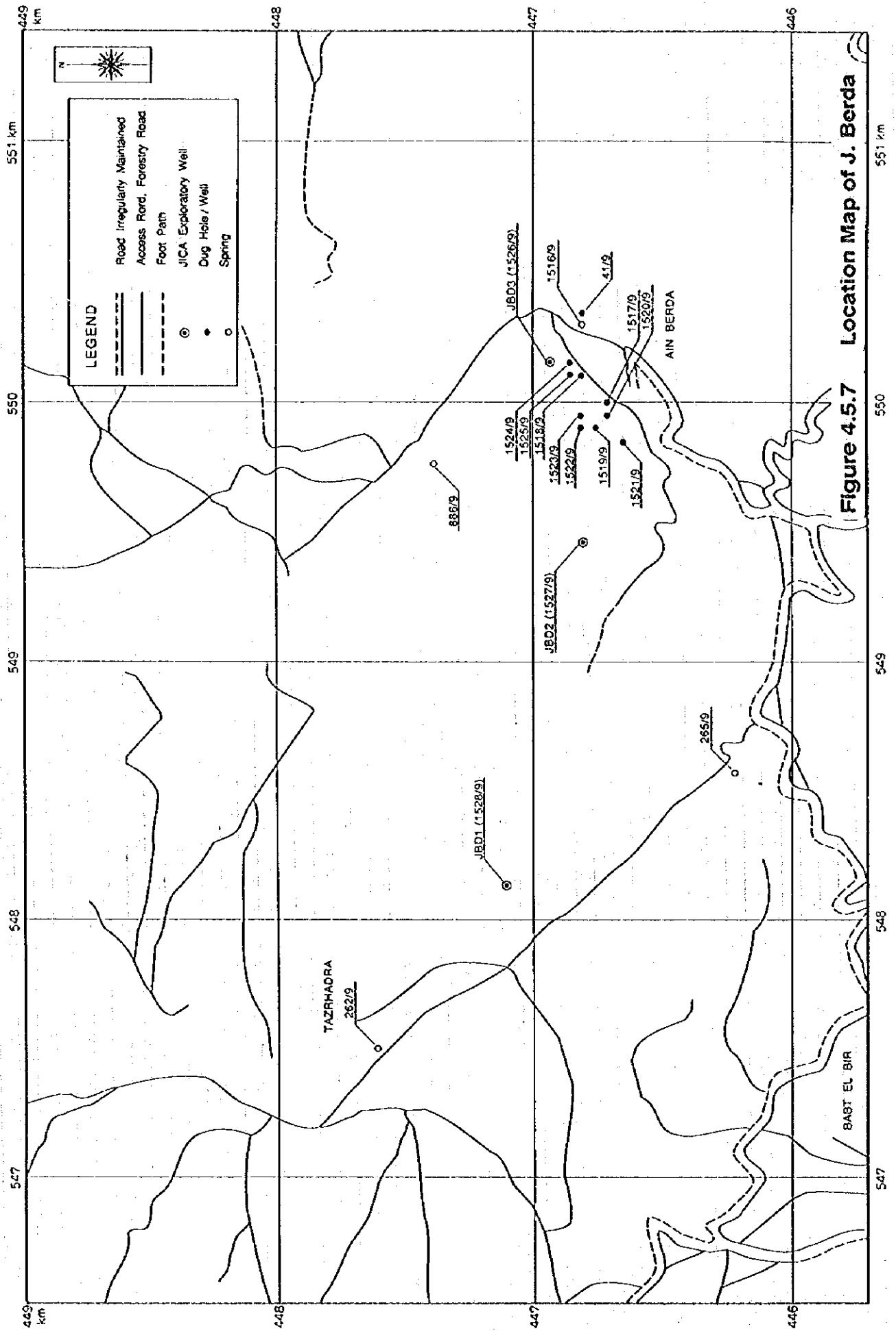


Figure 4.5.7 Location Map of J. Berda

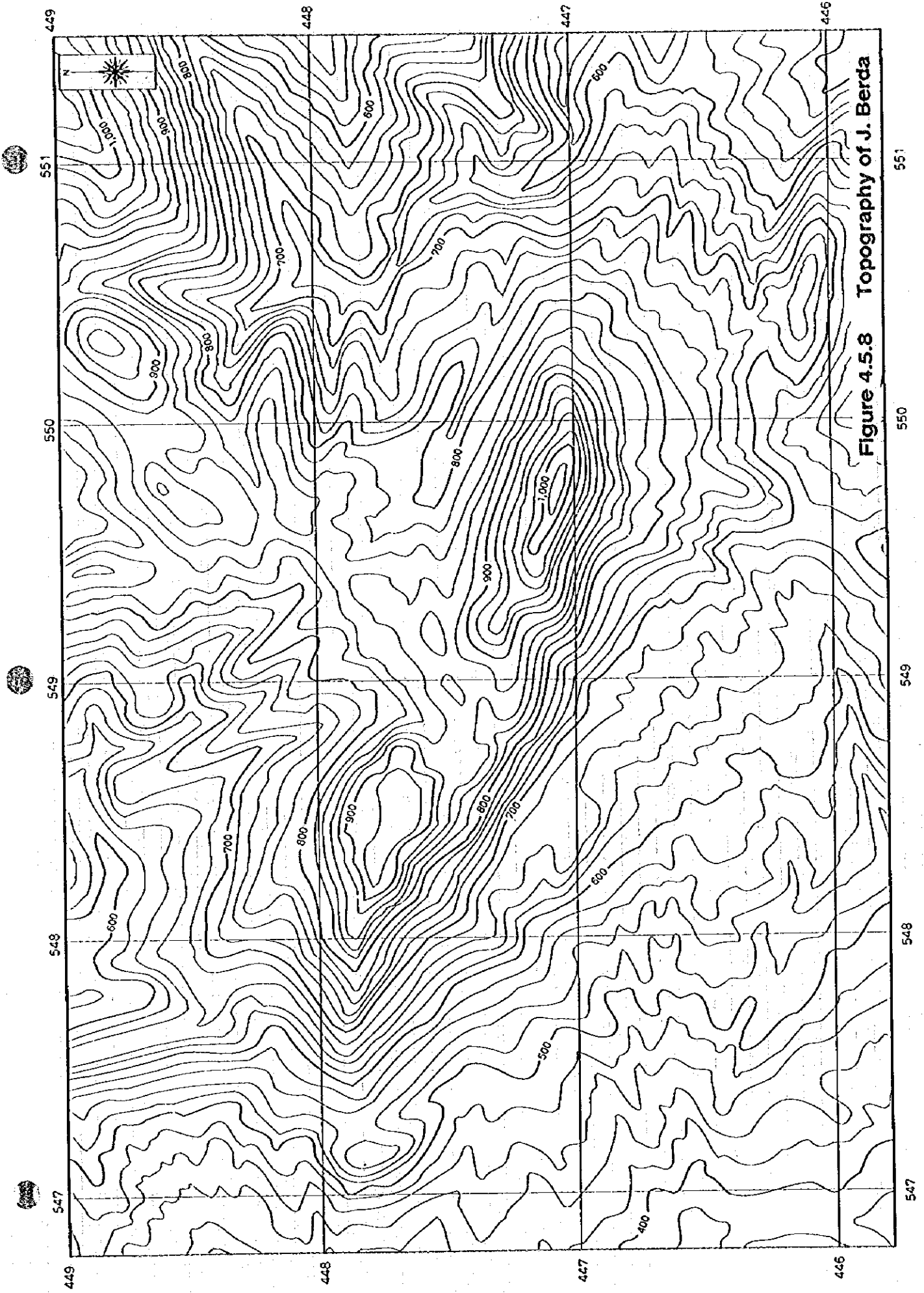


Figure 4.5.8 Topography of J. Berda

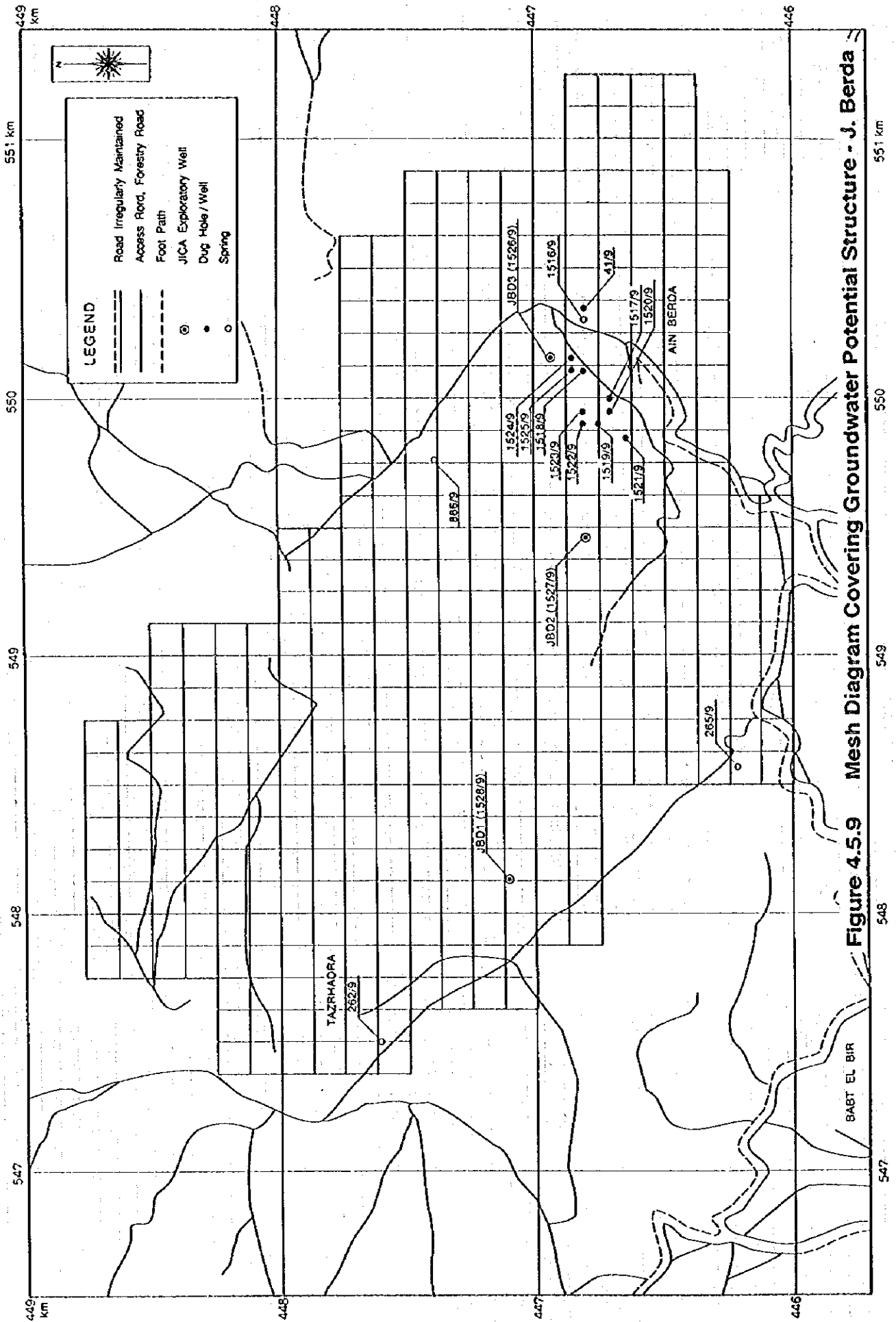
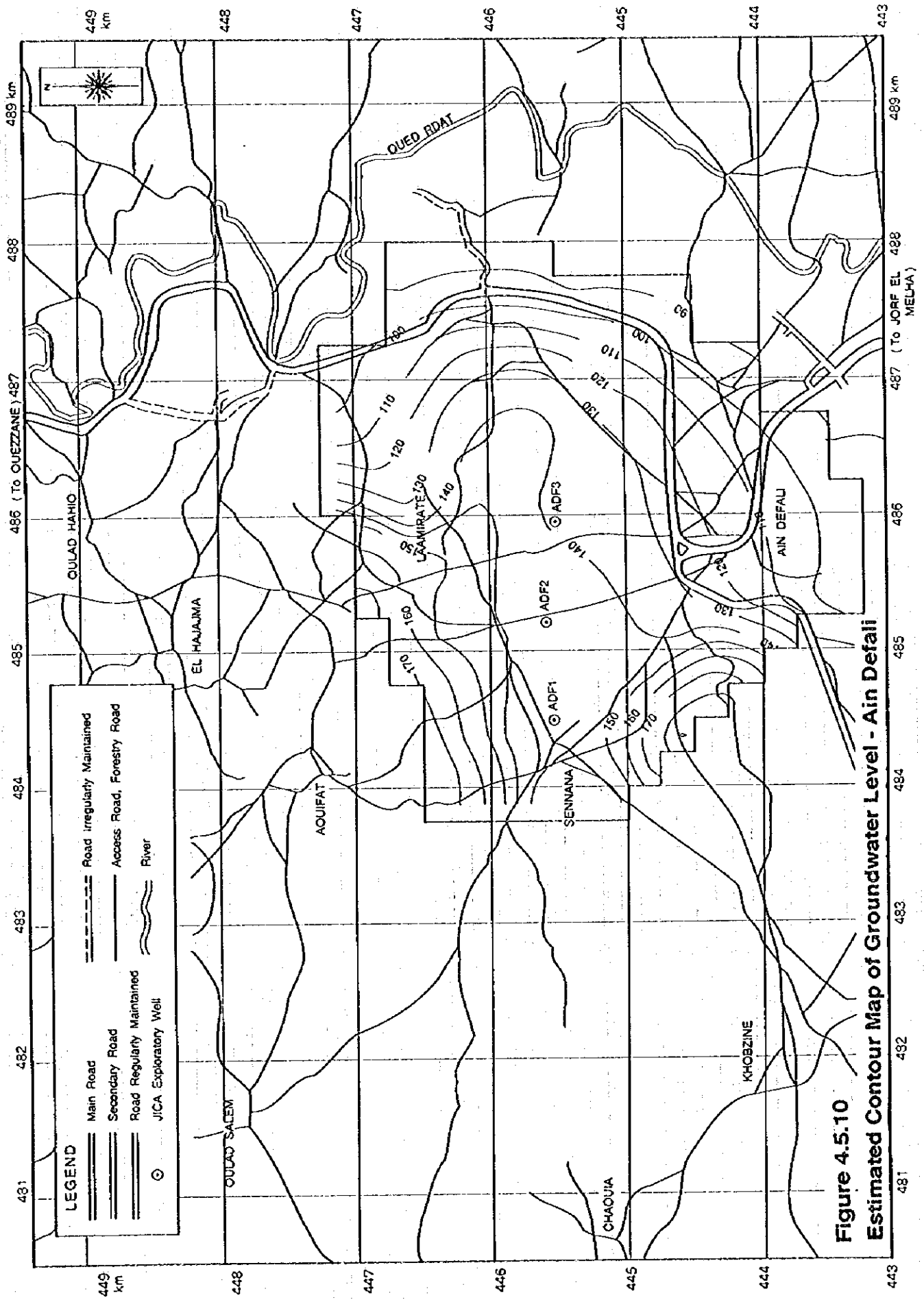
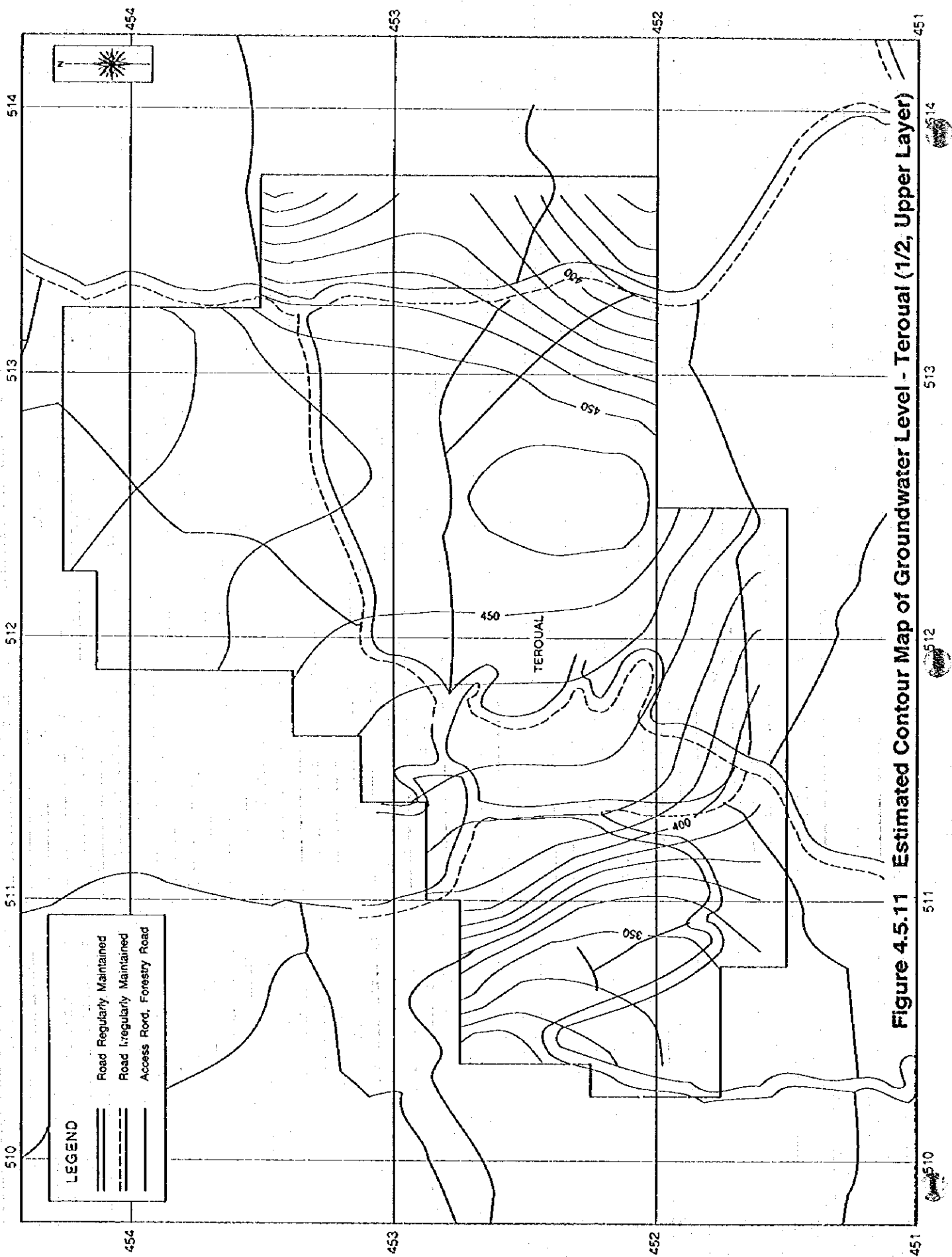


Figure 4.5.9 Mesh Diagram Covering Groundwater Potential Structure - J. Berda





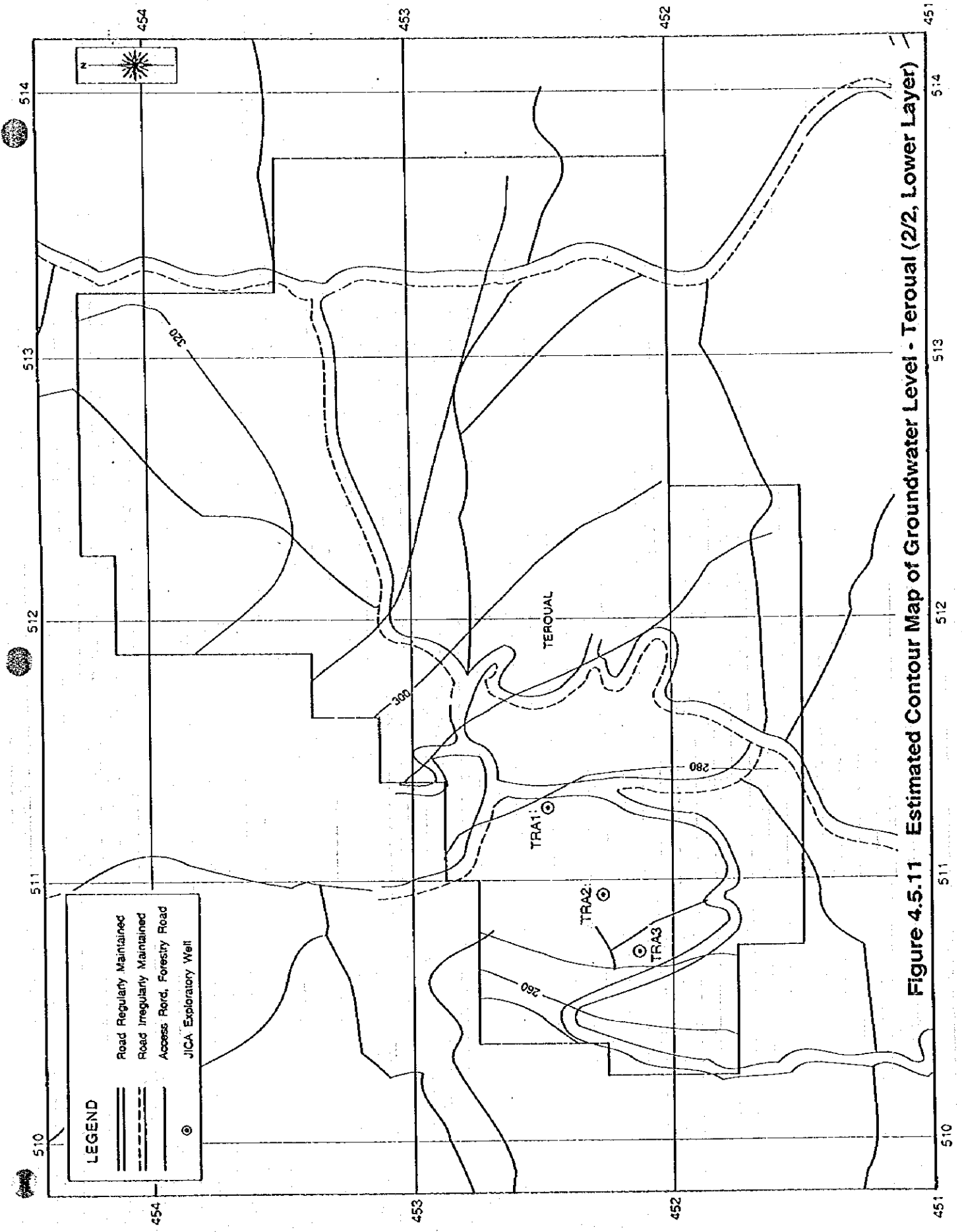


Figure 4.5.11 Estimated Contour Map of Groundwater Level - Teroual (2/2, Lower Layer)

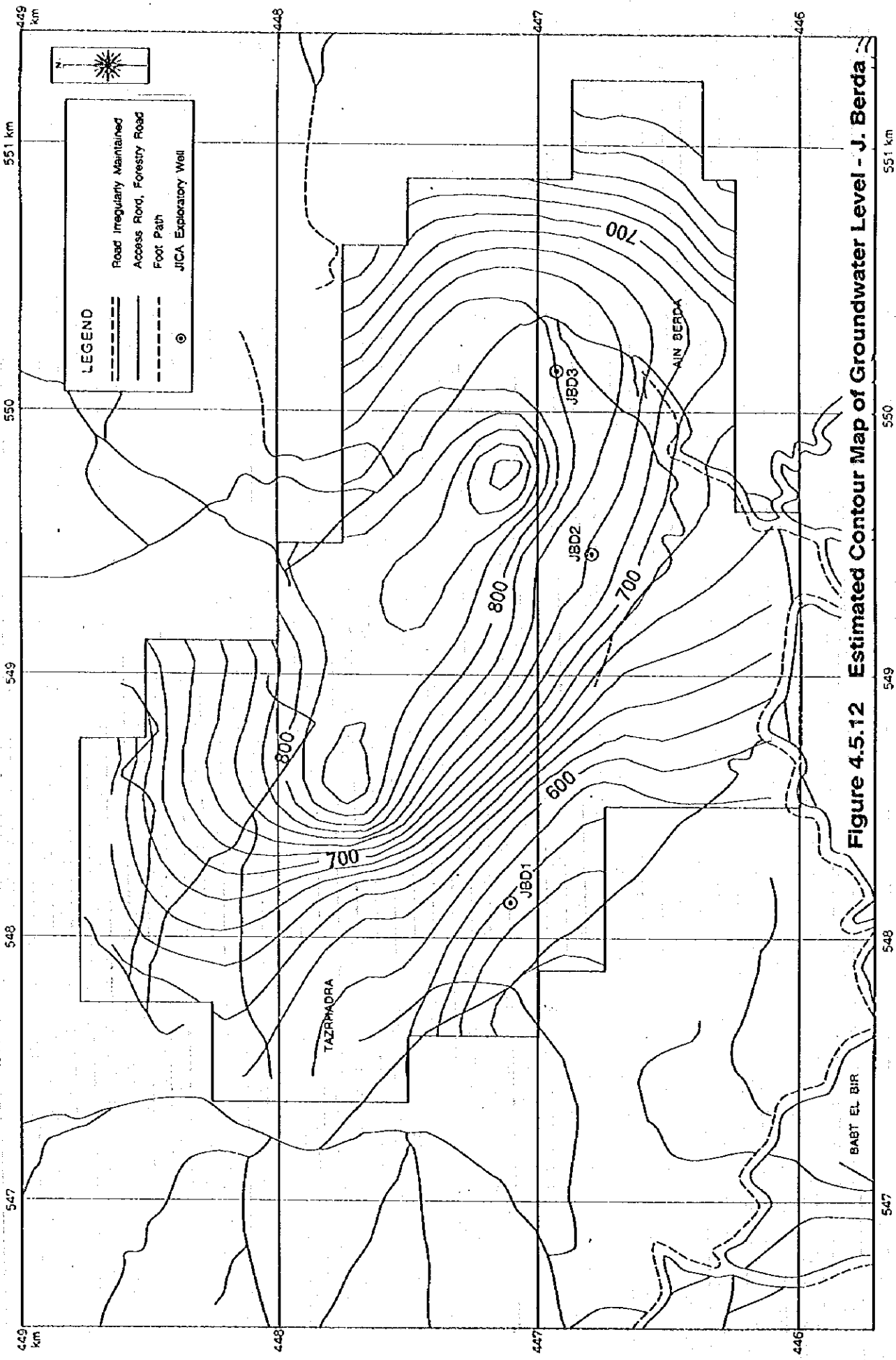
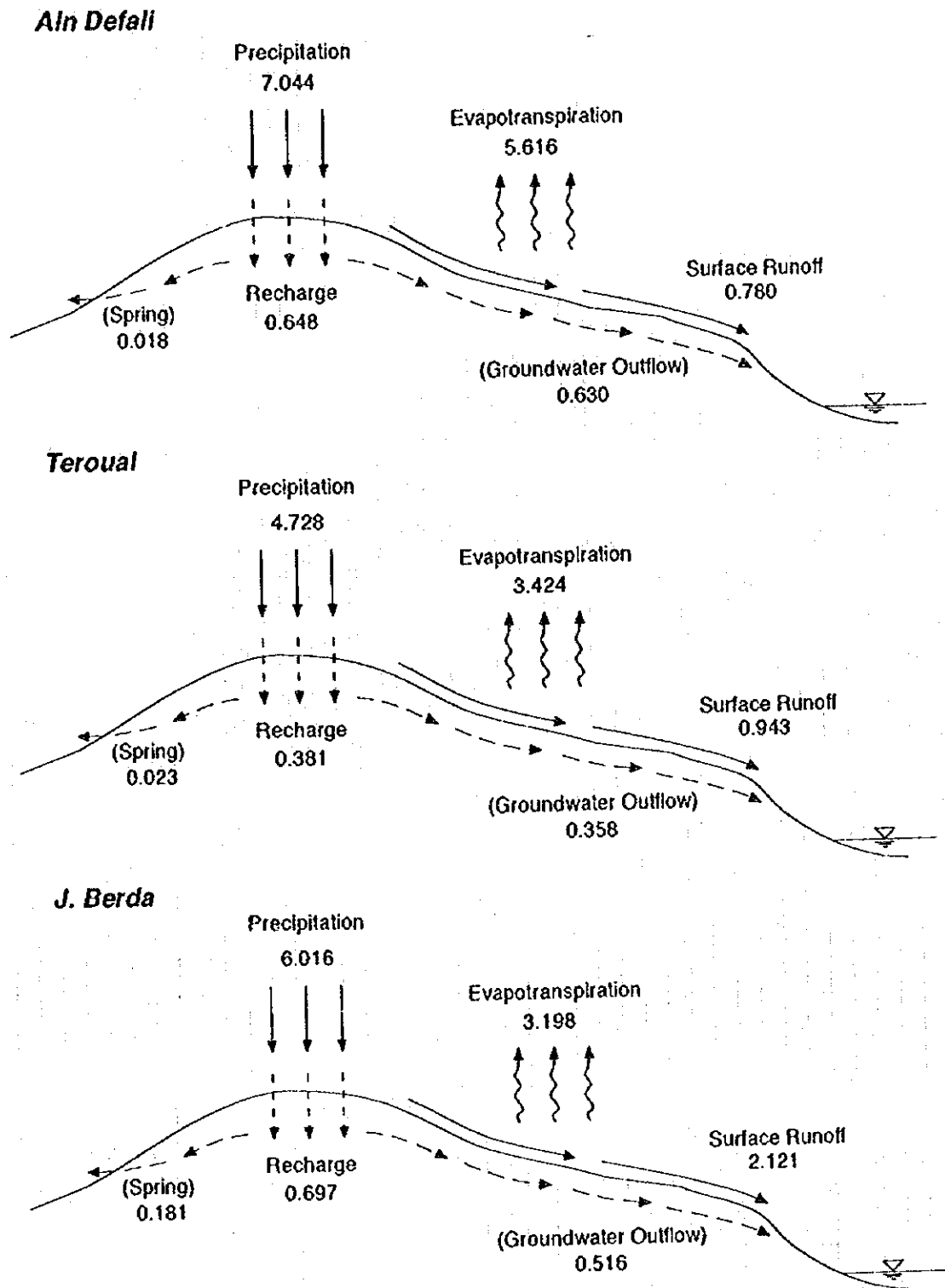
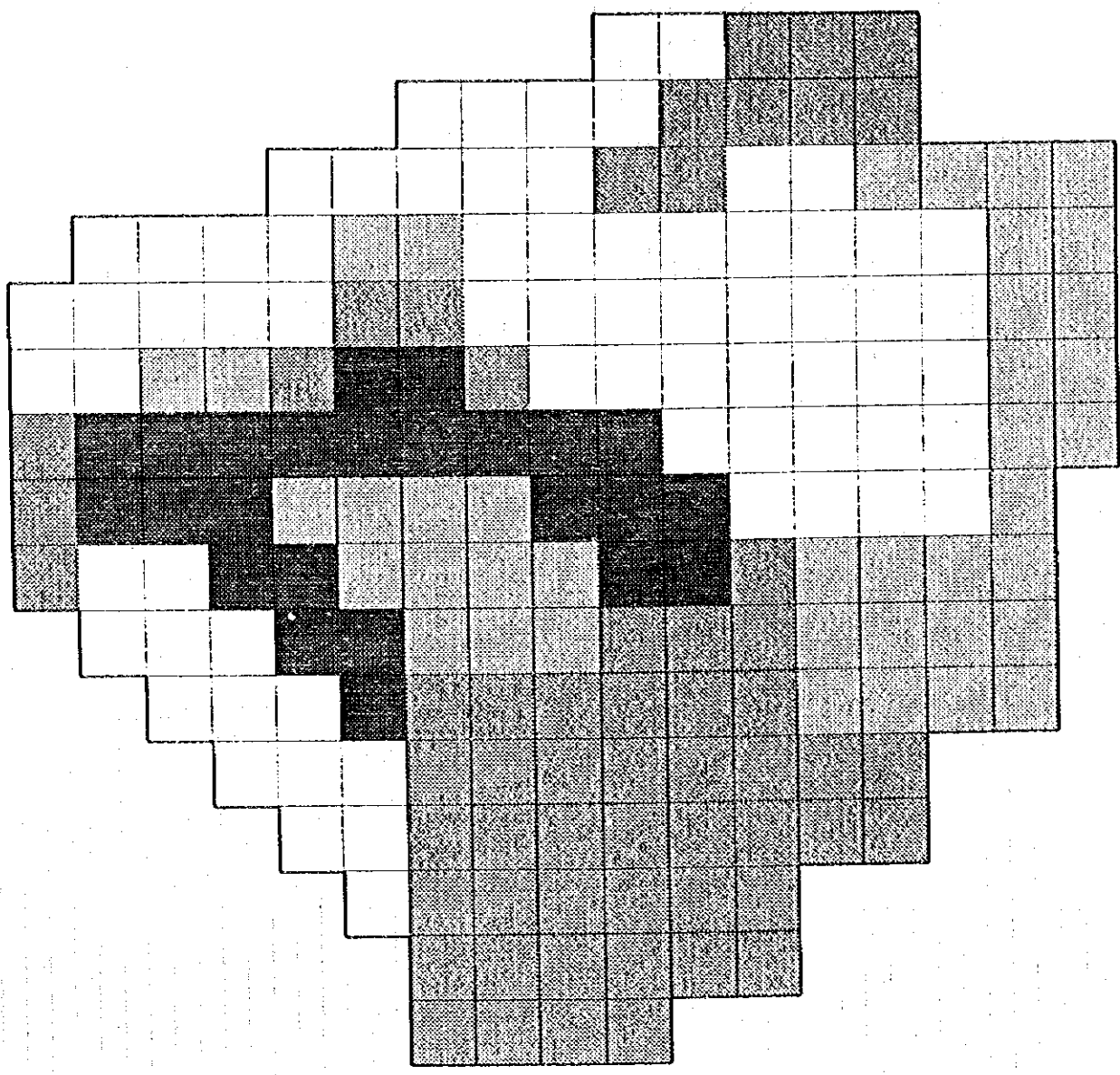


Figure 4.5.12 Estimated Contour Map of Groundwater Level - J. Berda



Unit : Million m³/year

Figure 4.5.13 Water Balance of Groundwater Potential Structure



Legend (m/day)





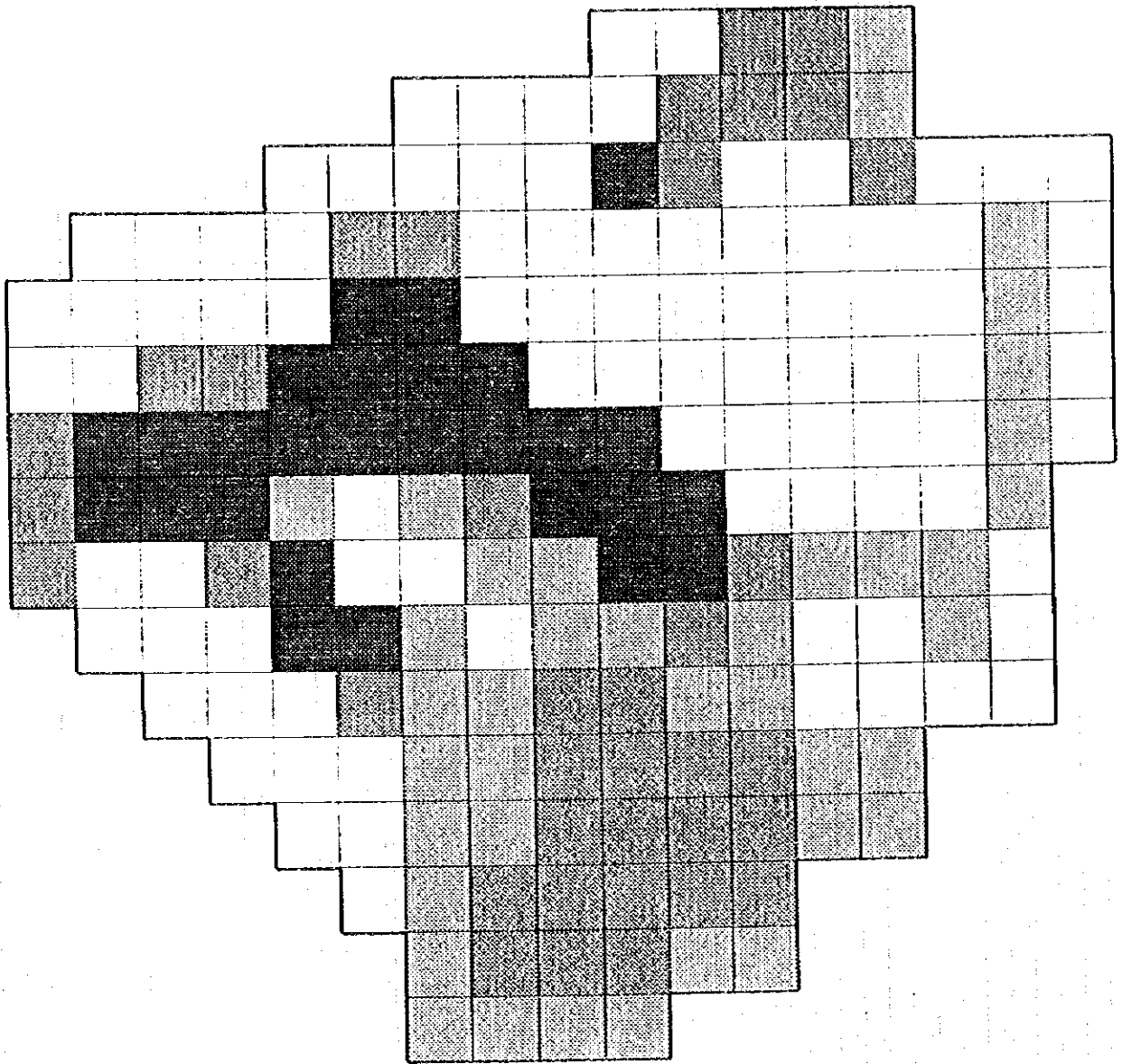
-  Under 0.1
-  0.1 - 0.2
-  0.2 - 0.5
-  Over 0.5

Figure 4.5.14
Distribution of Permeability Coefficient - Ain Defali



Legend (m2/day)

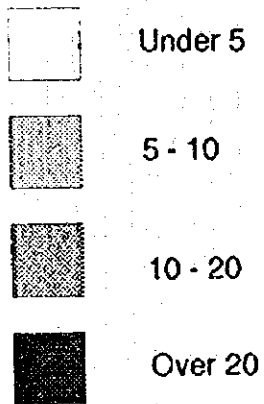


Figure 4.5.15
Distribution of Transmissivity - AIn Defall

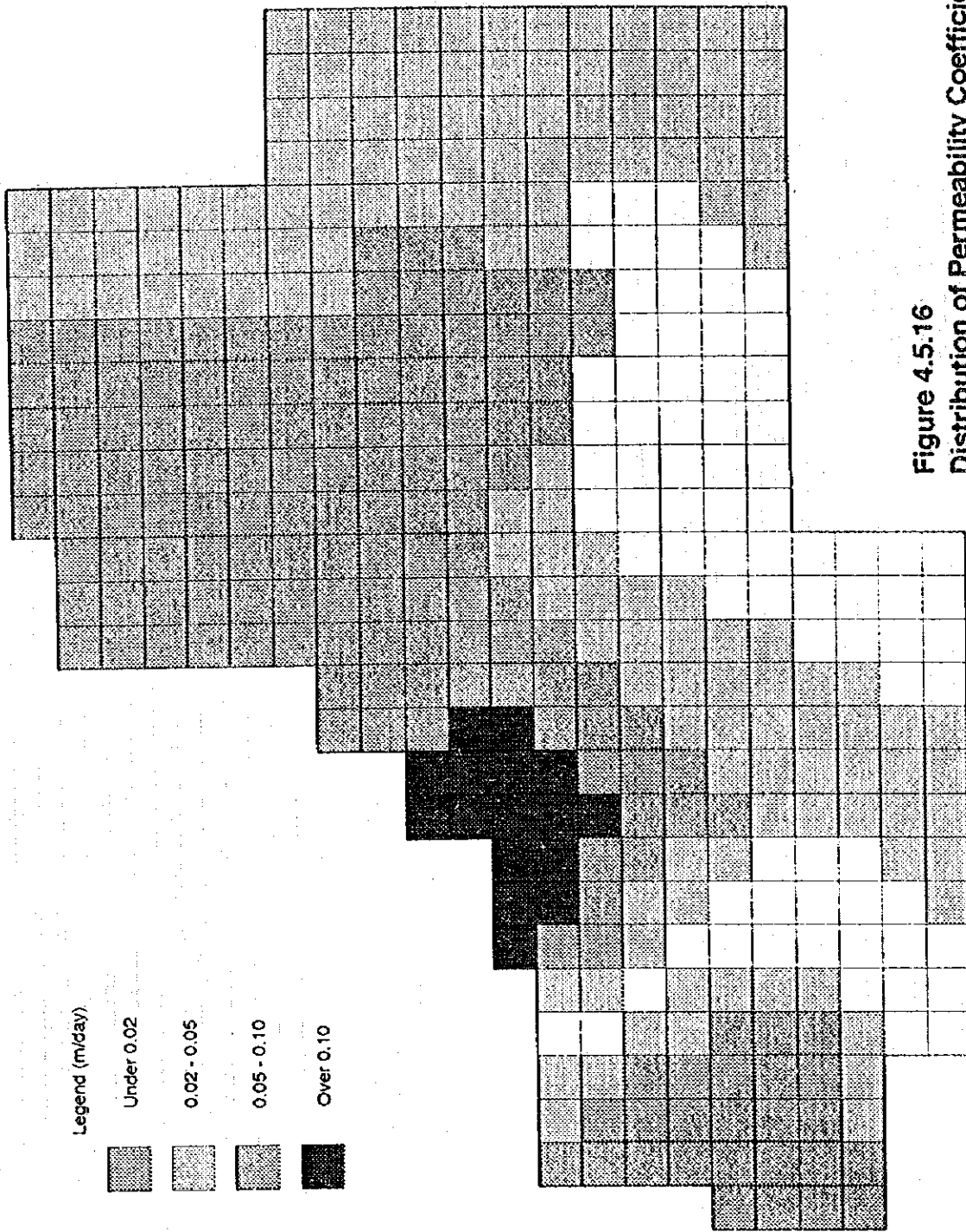


Figure 4.5.16
Distribution of Permeability Coefficient - Teroual
(1/2, Upper Layer)

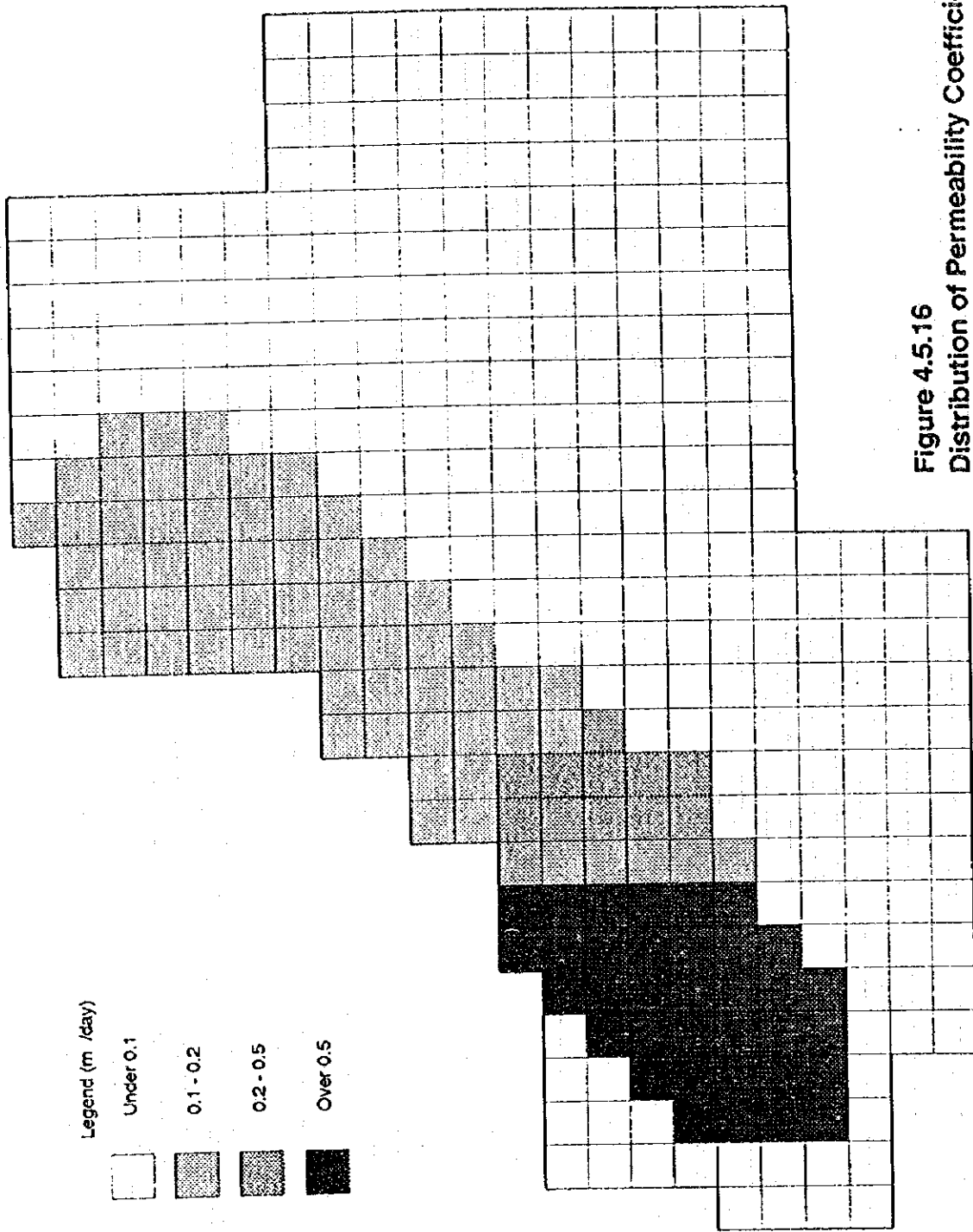


Figure 4.5.16
 Distribution of Permeability Coefficient - Teroual
 (2/2, Lower Layer)

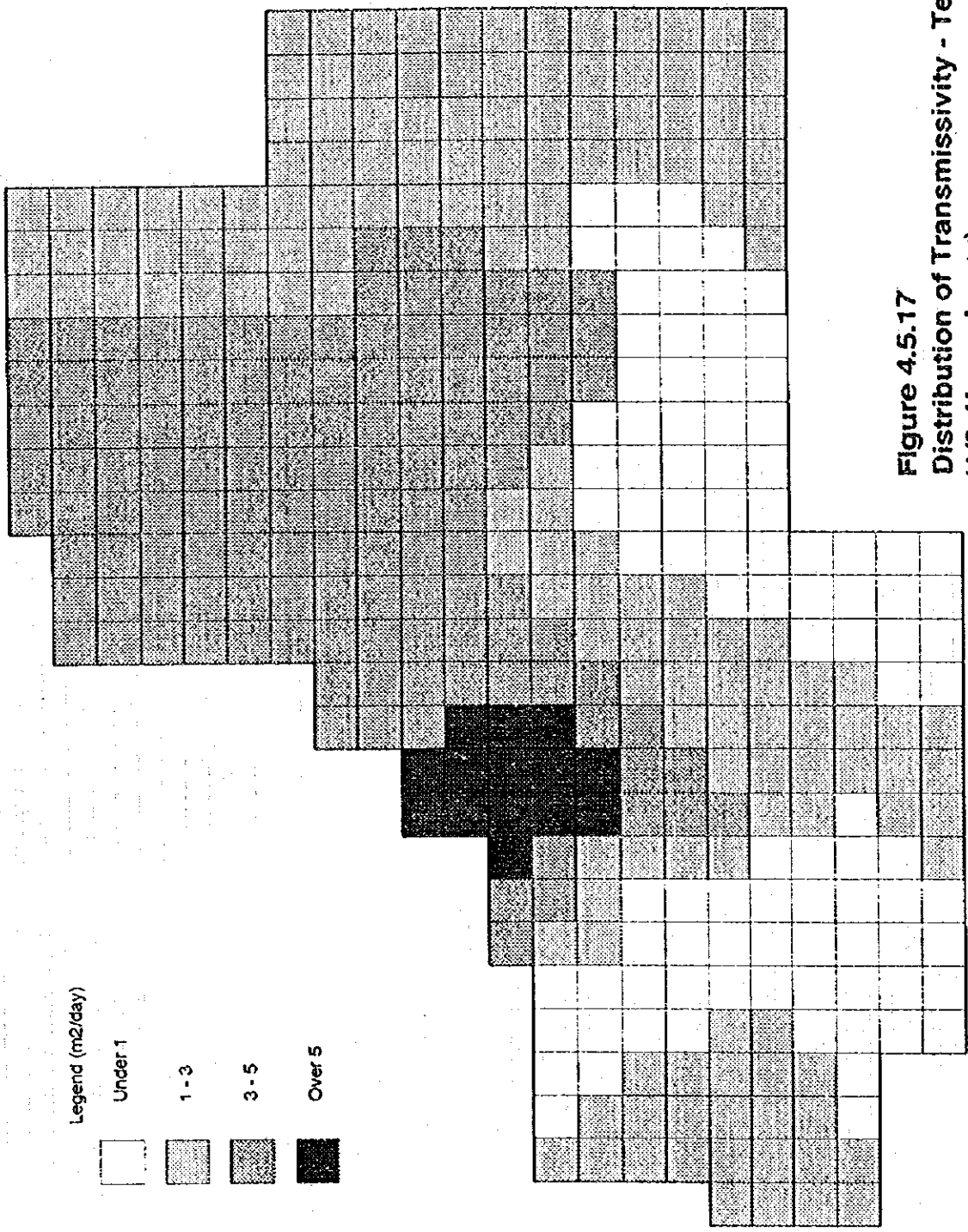


Figure 4.5.17
Distribution of Transmissivity - Teroual
(1/2, Upper Layer)

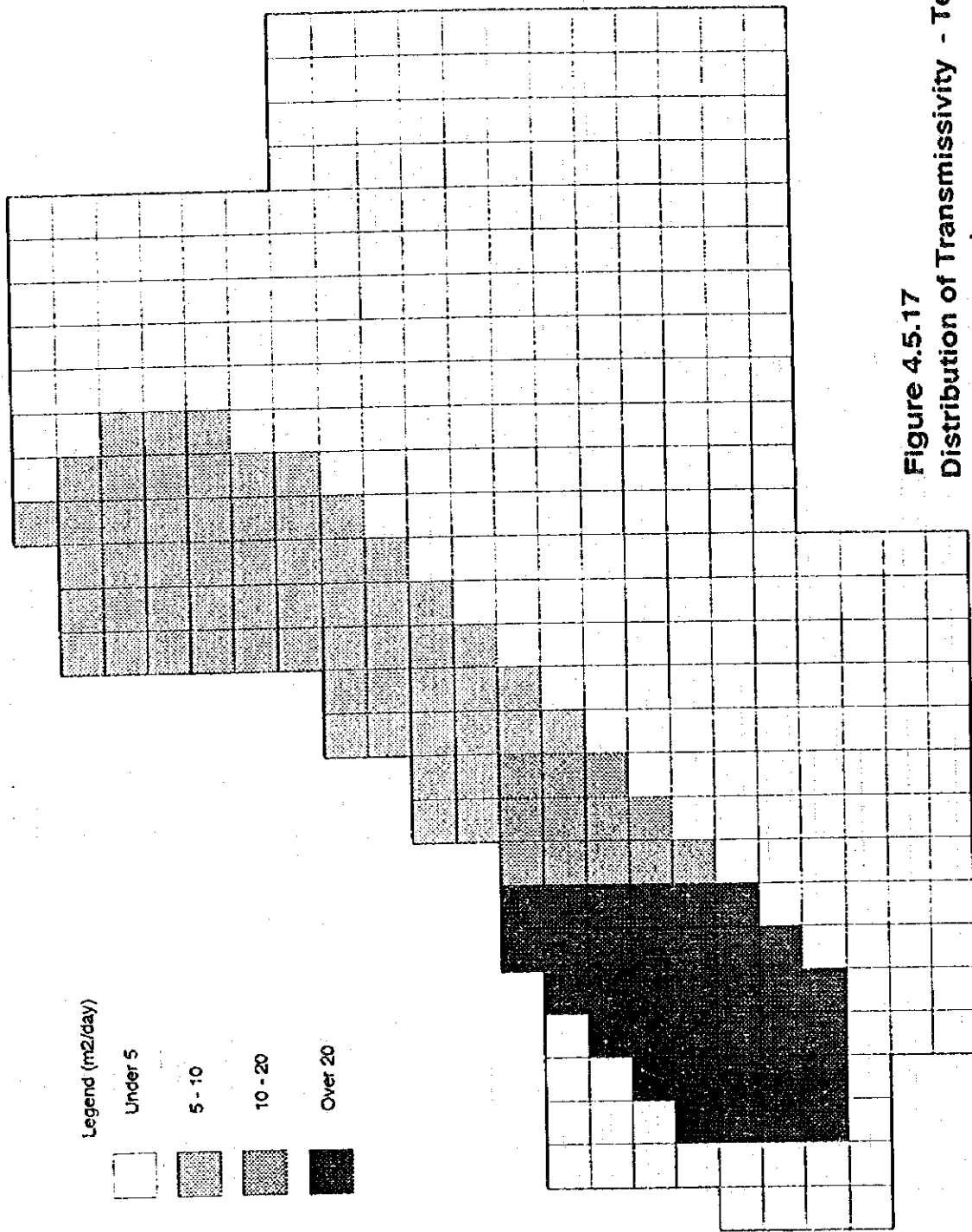


Figure 4.5.17
Distribution of Transmissivity - Teroual
(2/2, Lower Layer)

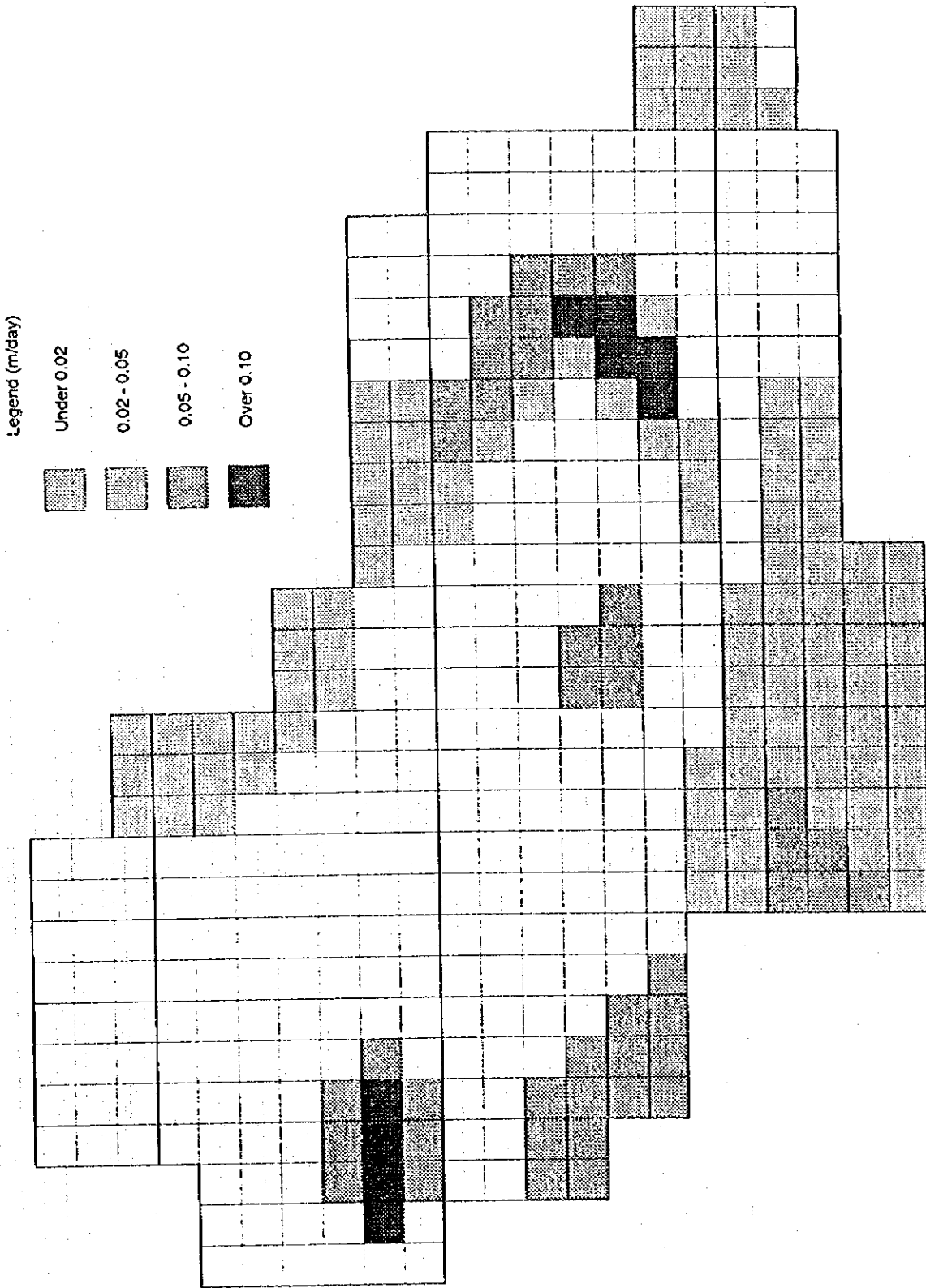


Figure 4.5.18 Distribution of Permeability Coefficient - J. Berda

Legend (m²/day)

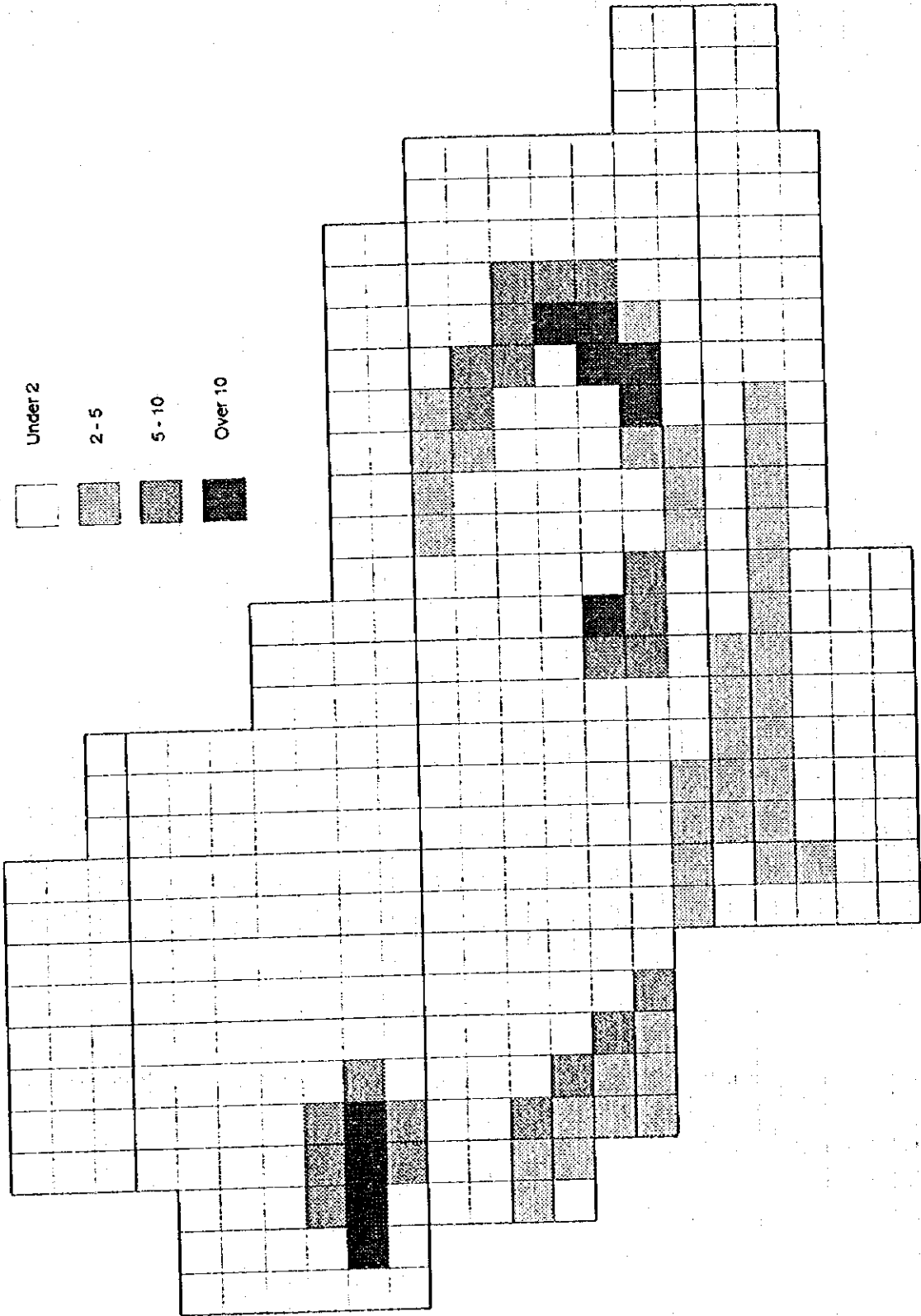
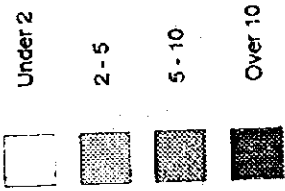
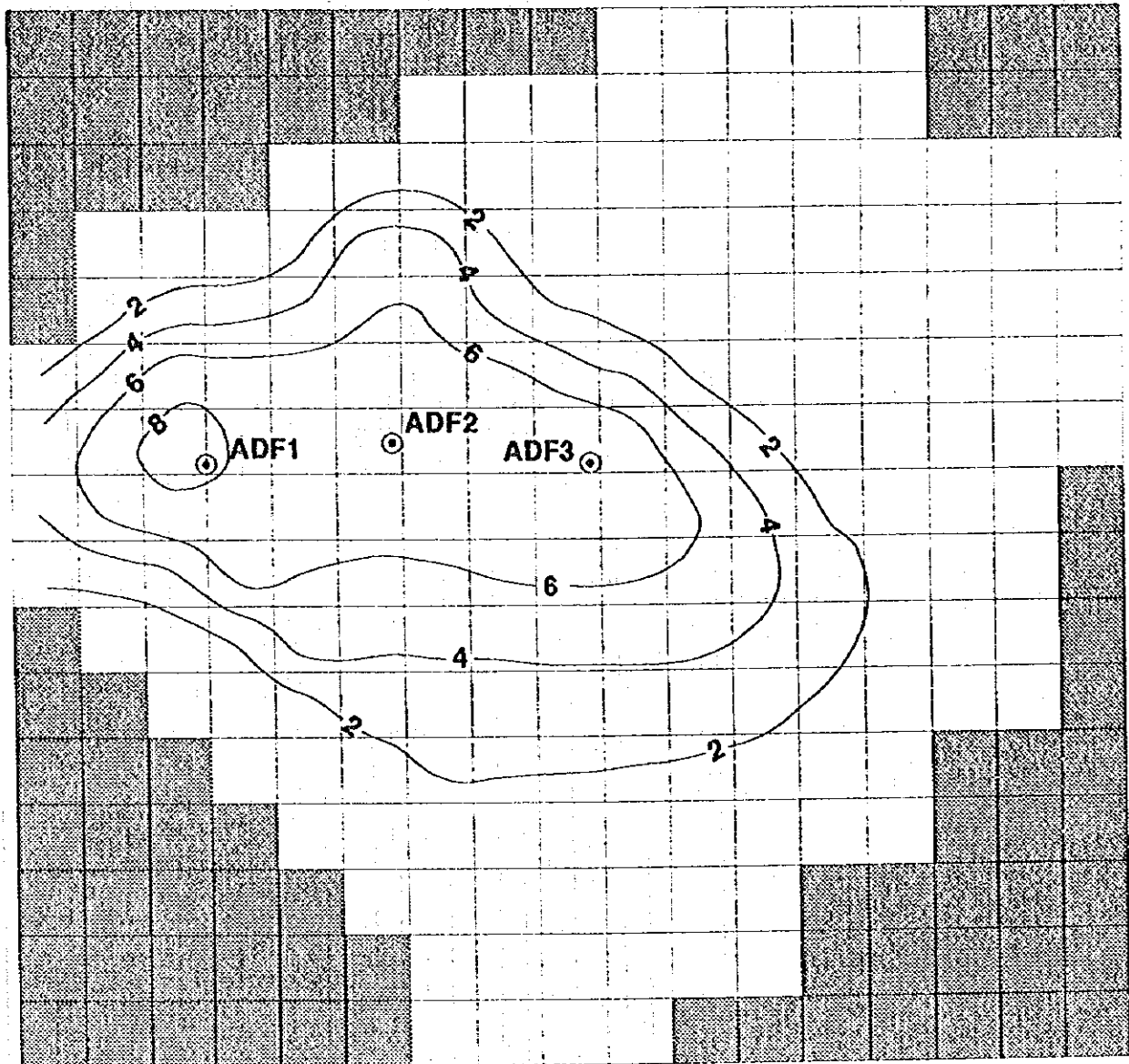


Figure 4.5.19 Distribution of Transmissivity - J. Berda

Ain Defali : Contours of Groundwater Level Lowering, Meters



Condition :

Lowering of Groundwater Level at Exploratory Well < 10 m after 20 Years Pumping

Yield :

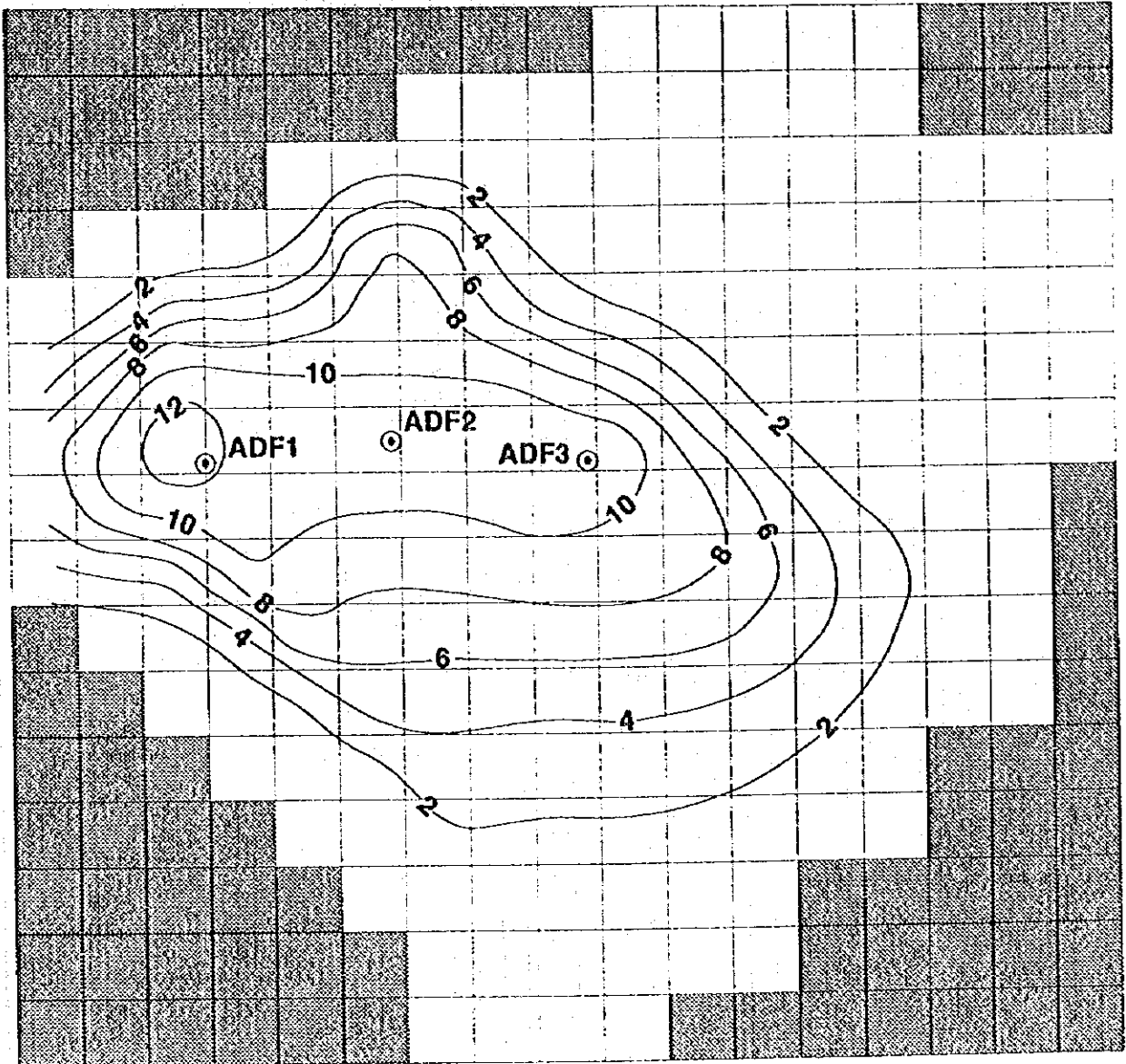
ADF1 - 242 m³/day

ADF2 - 60 m³/day

ADF3 - 156 m³/day

Figure 4.5.20 Predicted Lowering of Groundwater Level - Ain Defali (1/3)

Ain Defali : Contours of Groundwater Level Lowering, Meters



Condition :

Lowering of Groundwater Level at Exploratory Well < 15 m after 20 Years Pumping

Yield :

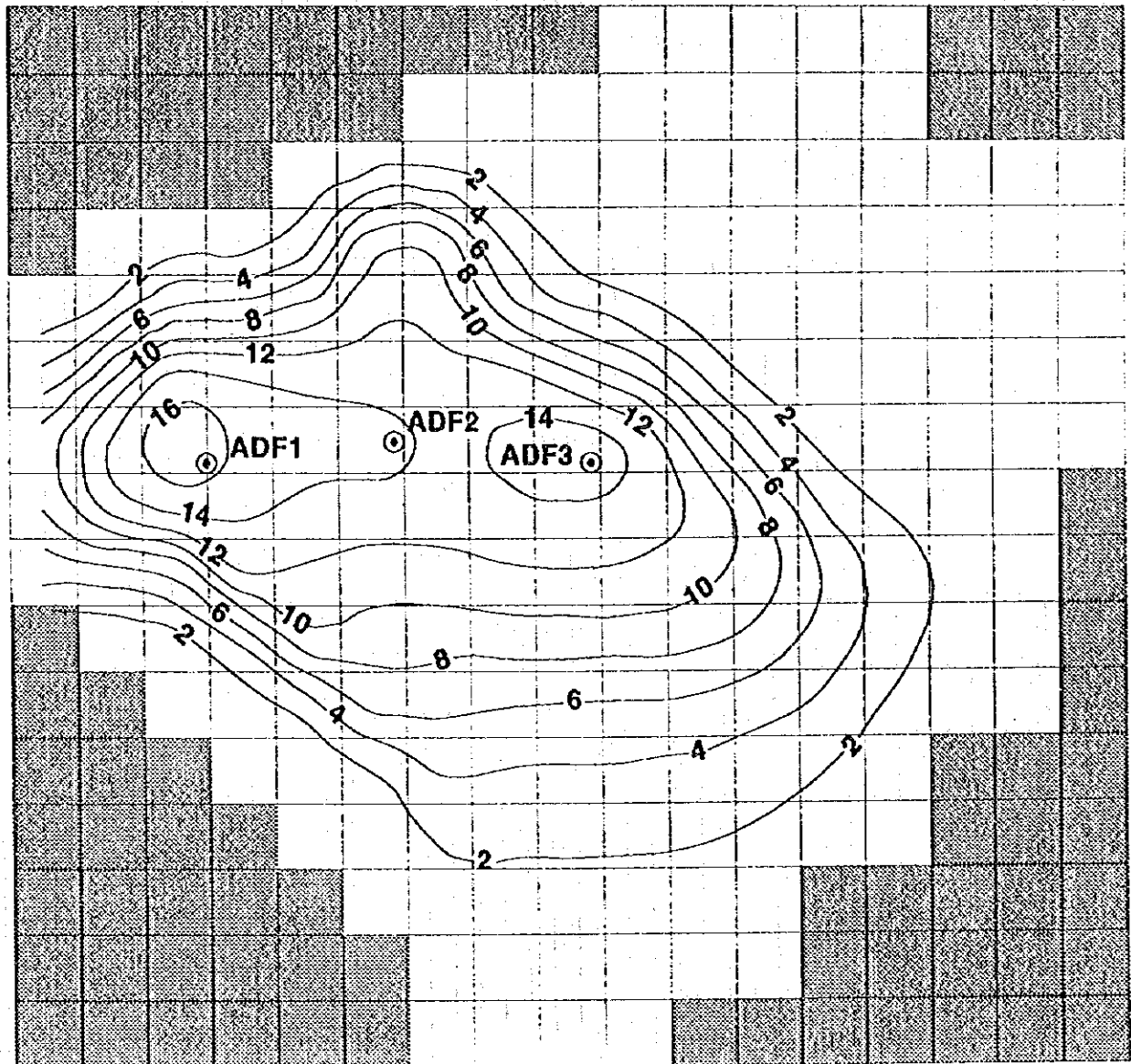
ADF1 - 354 m³/day

ADF2 - 86 m³/day

ADF3 - 233 m³/day

Figure 4.5.20 Predicted Lowering of Groundwater Level - Ain Defali (2/3)

Ain Defali : Contours of Groundwater Level Lowering, Meters



Condition :

Lowering of Groundwater Level at Exploratory Well < 20 m after 20 Years Pumping

Yield :

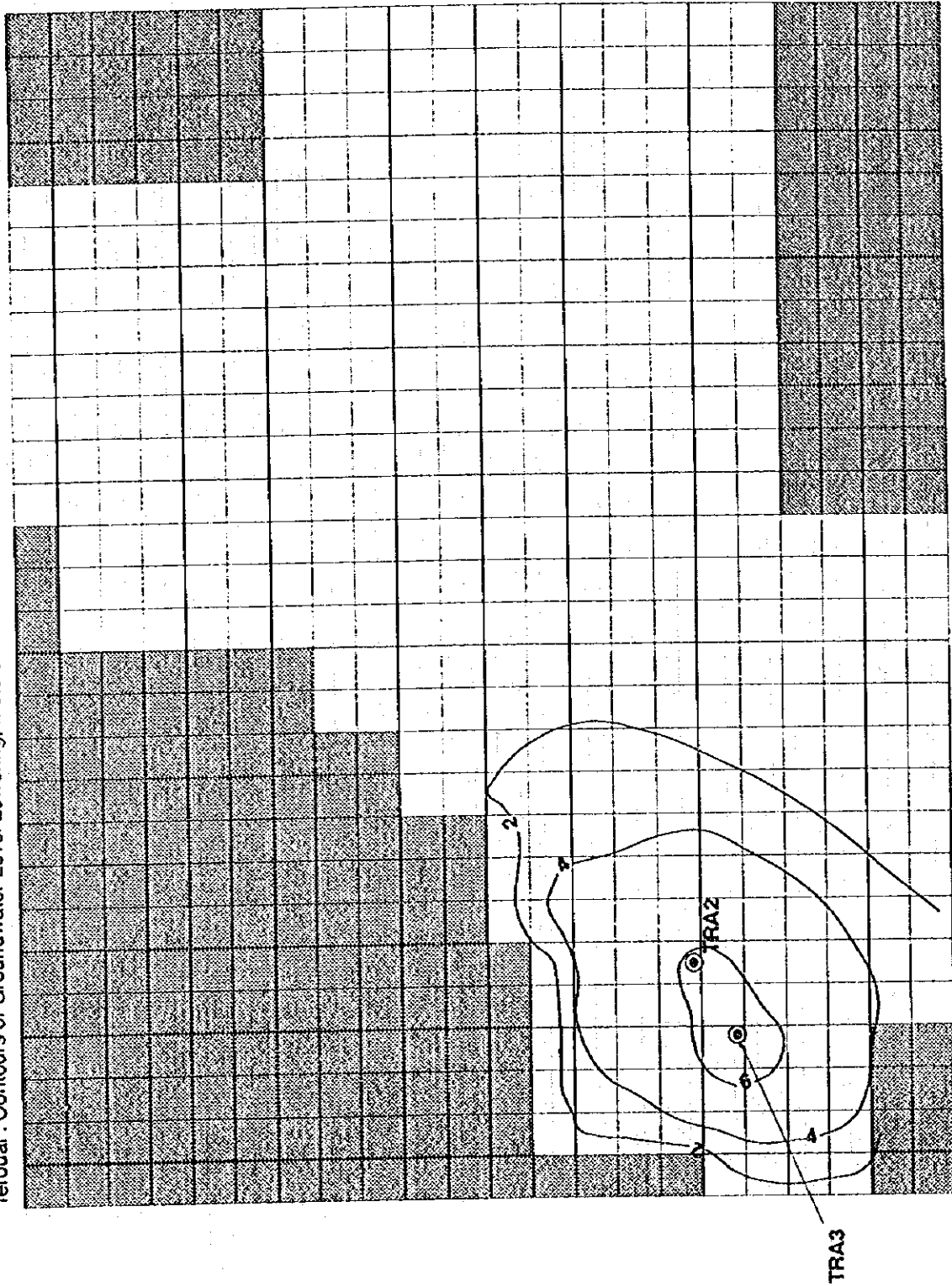
ADF1 - 475 m³/day

ADF2 - 121 m³/day

ADF3 - 311 m³/day

Figure 4.5.20 Predicted Lowering of Groundwater Level - Ain Defali (3/3)

Teroual : Contours of Groundwater Level Lowering, Meters

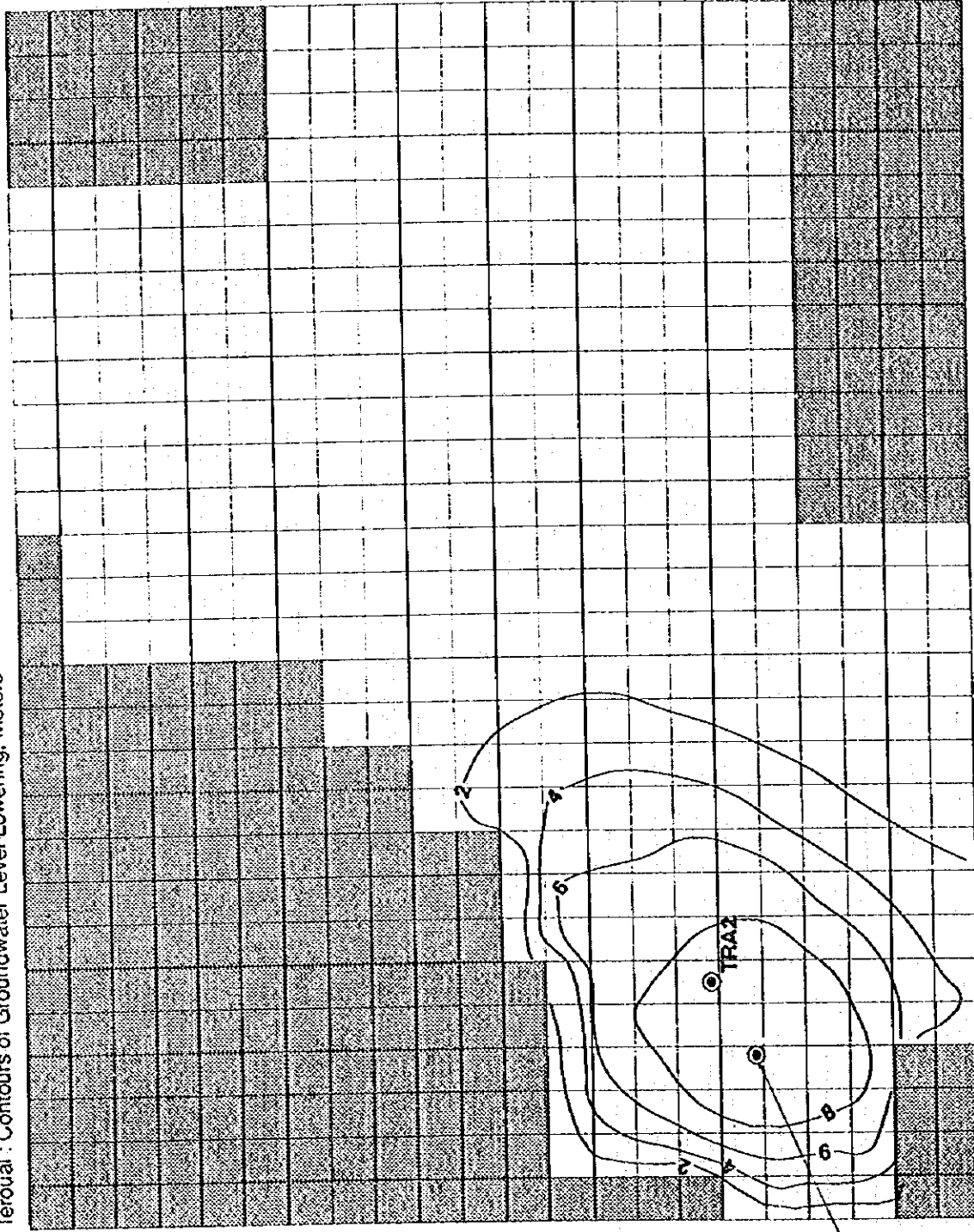


Yield :
TRA2 - 111 m³/day
TRA3 - 106 m³/day

Condition :
Lowering of Groundwater Level at Exploratory Well < 10 m after 20 Years Pumping

Figure 4.5.21 Predicted Lowering of Groundwater Level - Teroual (1/3)

Teroual : Contours of Groundwater Level Lowering, Meters

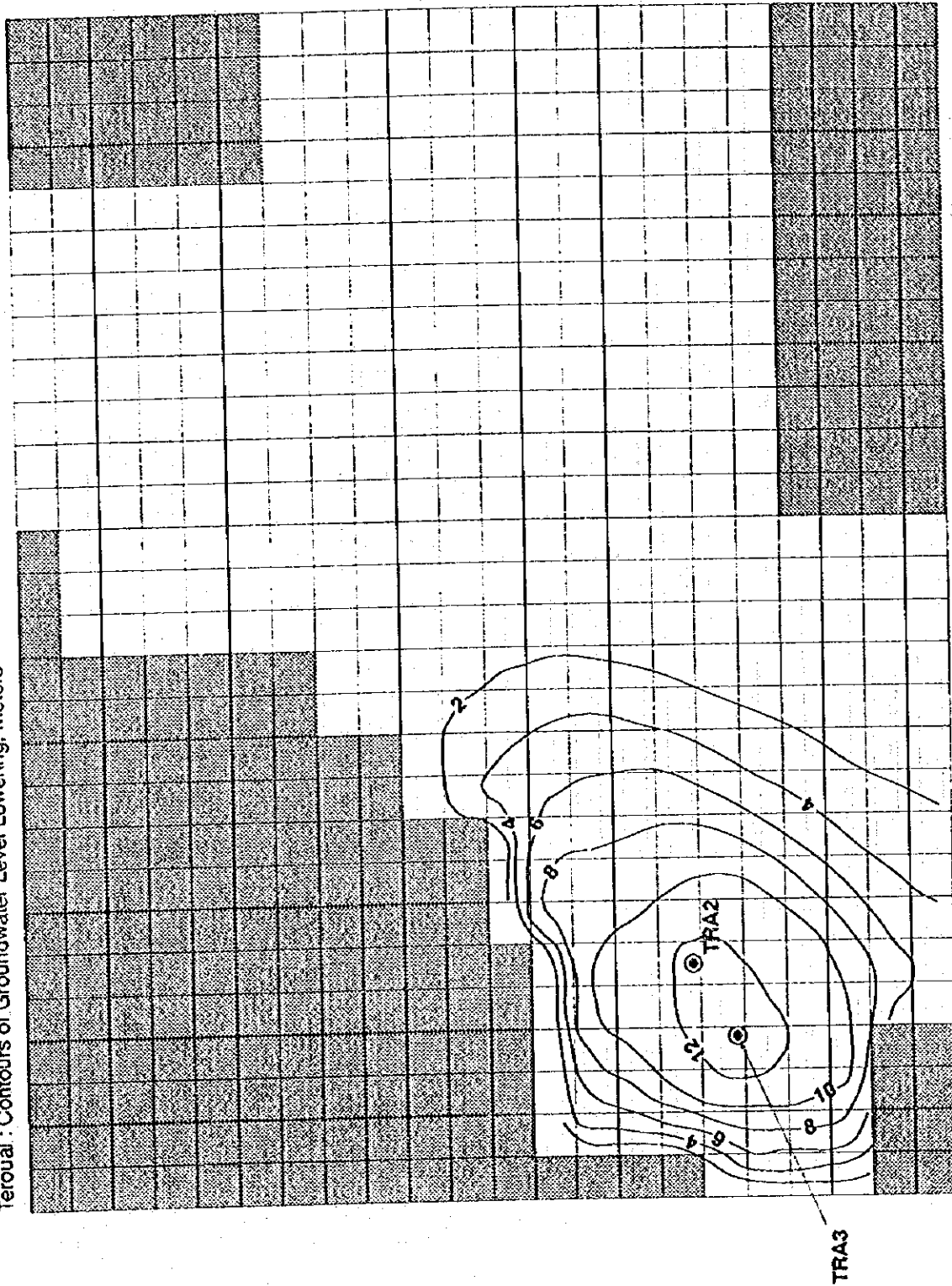


Yield :
TRA2 - 167 m³/day
TRA3 - 157 m³/day

Condition :
Lowering of Groundwater Level at Exploratory Well < 15 m after 20 Years Pumping

Figure 4.5.21 Predicted Lowering of Groundwater Level - Teroual (2/3)

Teroual : Contours of Groundwater Level Lowering, Meters

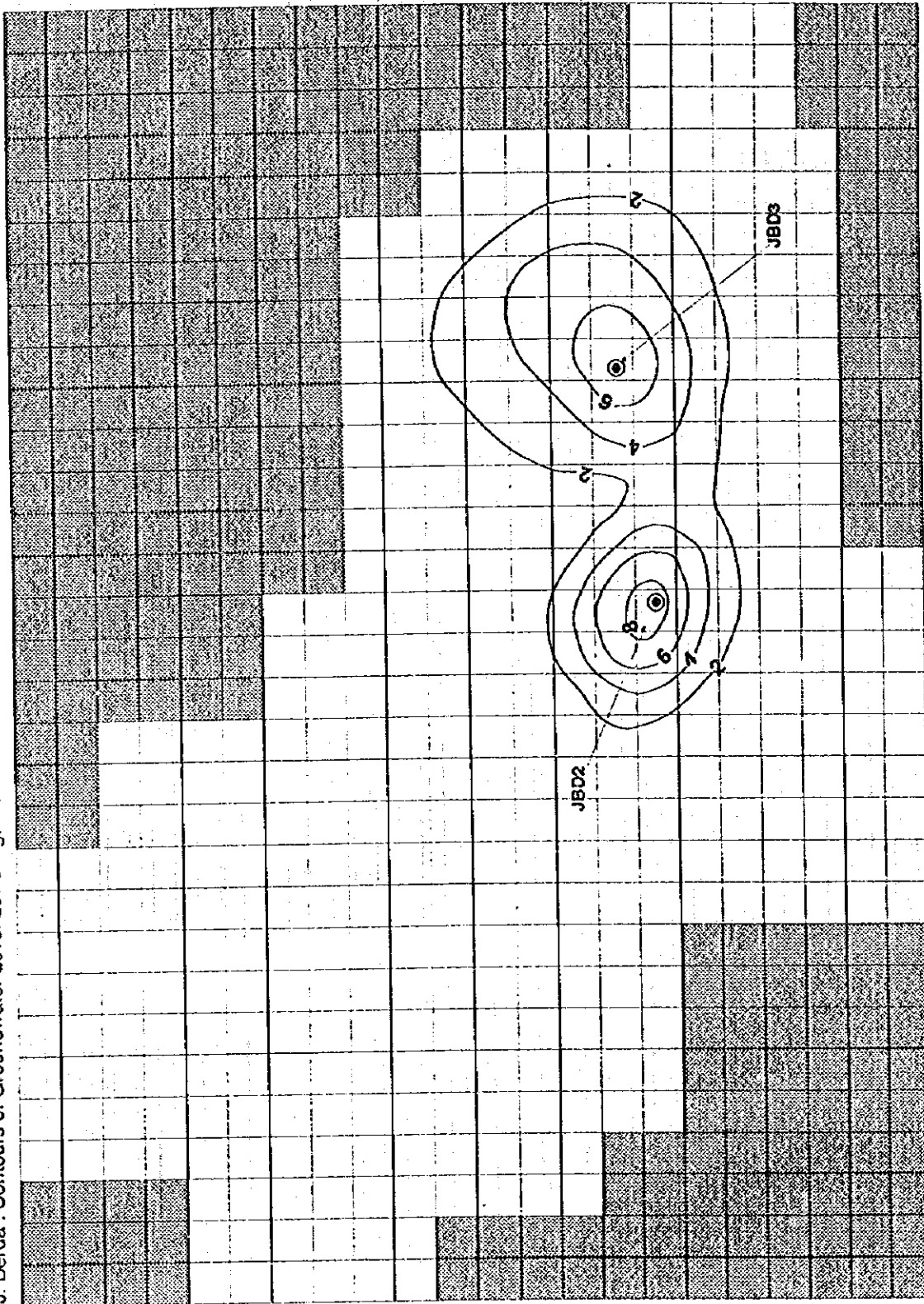


Yield :
TRA2 - 225 m³/day
TRA3 - 207 m³/day

Condition :
Lowering of Groundwater Level at Exploratory Well < 20 m after 20 Years Pumping

Figure 4.5.21 Predicted Lowering of Groundwater Level - Teroual (3/3)

J. Berda : Contours of Groundwater Level Lowering, Meters

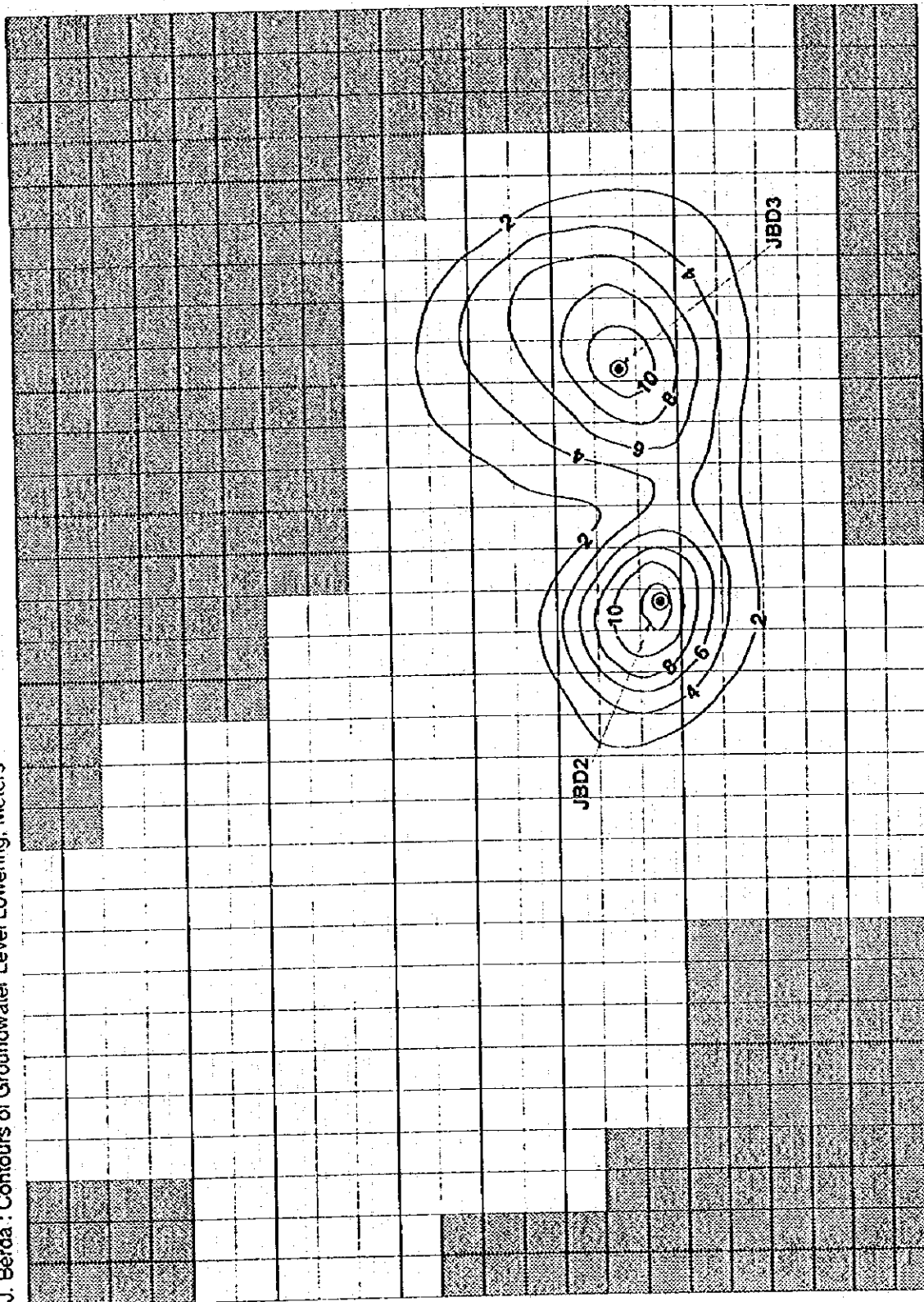


Yield :
JBD2 - 43 m³/day
JBD3 - 65 m³/day

Condition :
Lowering of Groundwater Level at Exploratory Well < 10 m after 20 Years Pumping

Figure 4.5.22 Predicted Lowering of Groundwater Level - J. Berda (1/3)

J. Berda : Contours of Groundwater Level Lowering, Meters

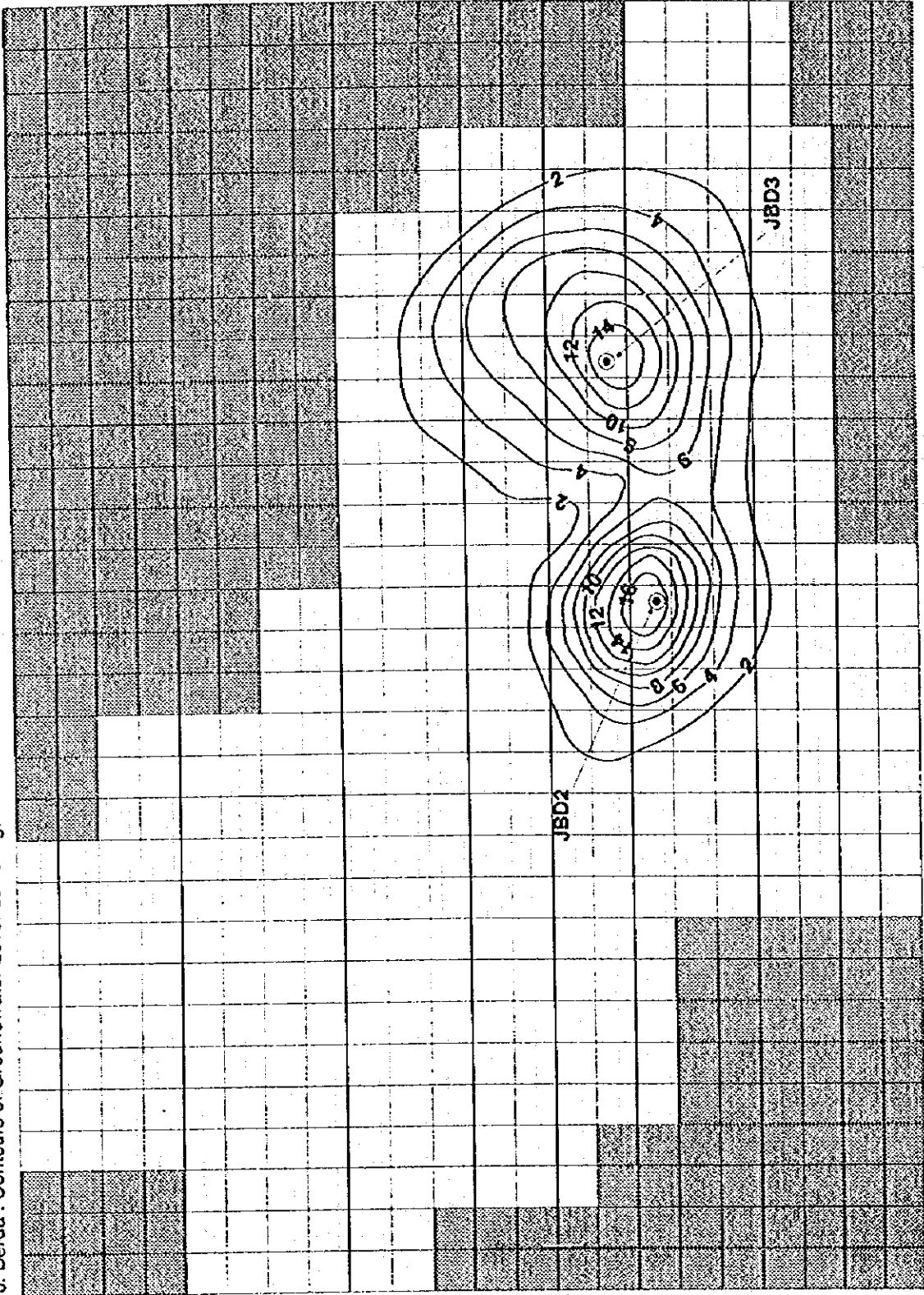


Yield :
JBD2 - 65 m³/day
JBD3 - 99 m³/day

Condition :
Lowering of Groundwater Level at Exploratory Well < 15 m after 20 Years
Pumping

Figure 4.5.22 Predicted Lowering of Groundwater Level - J. Berda (2/3)

J. Berda : Contours of Groundwater Level Lowering, Meters



Condition :
Lowering of Groundwater Level at Exploratory Well < 20 m after 20 Years
Pumping

Yield :
JBD2 - 91 m³/day
JBD3 - 134 m³/day

Figure 4.5.22 Predicted Lowering of Groundwater Level - J. Berda (3/3)

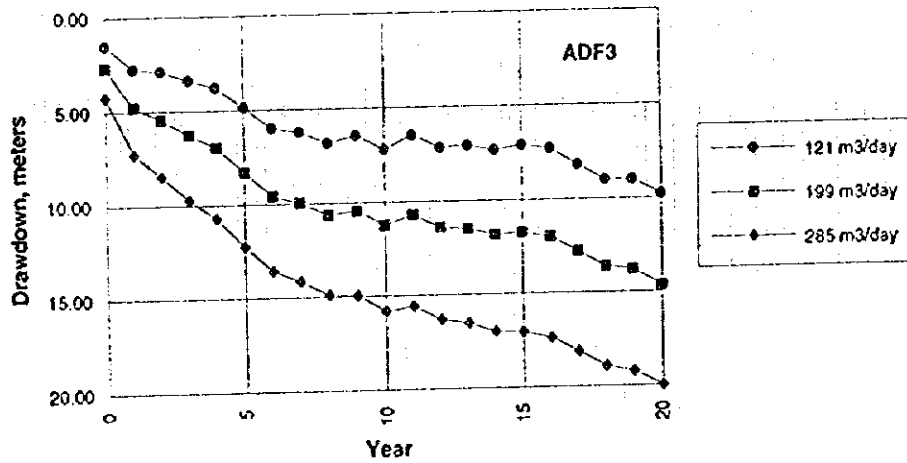
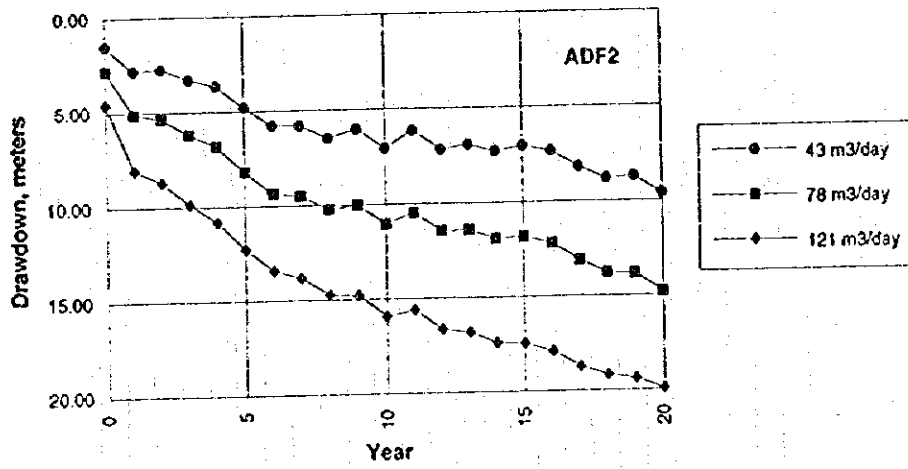
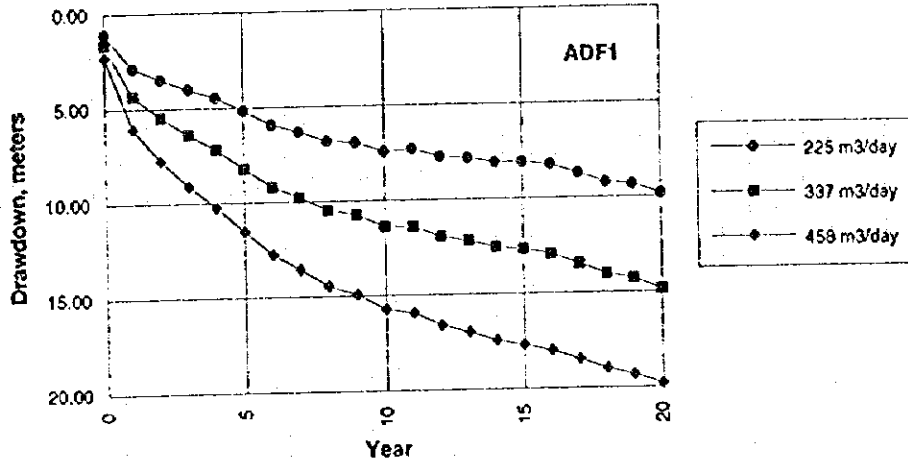
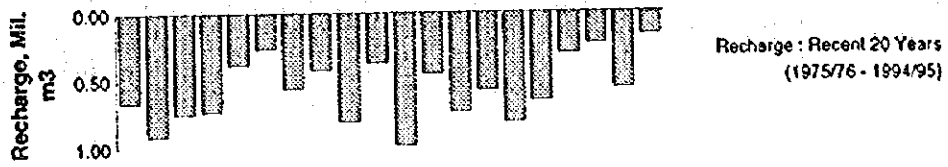


Figure 4.5.23 Variation of Groundwater Level at Exploratory Well - Ain Defall

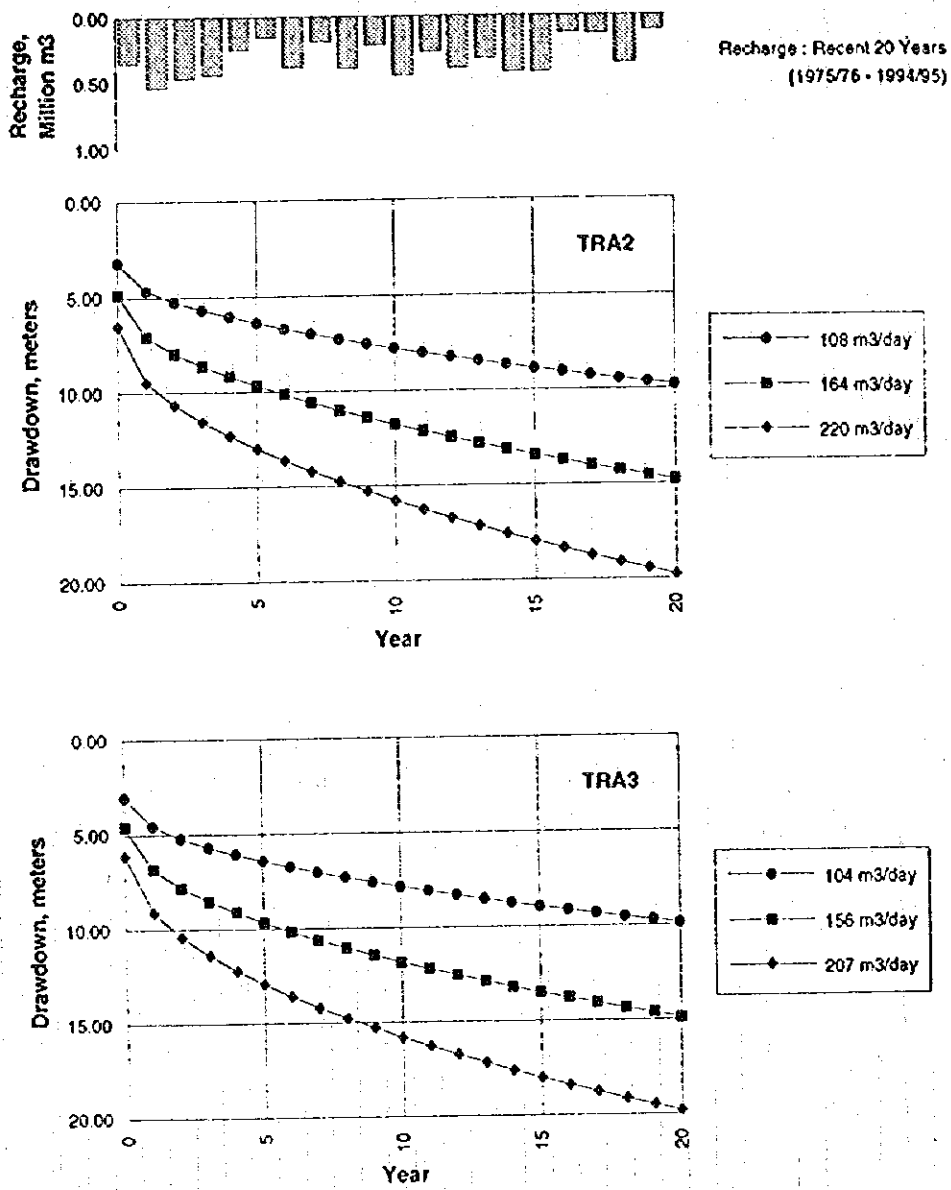


Figure 4.5.24 Variation of Groundwater Level at Exploratory Well - Teroual

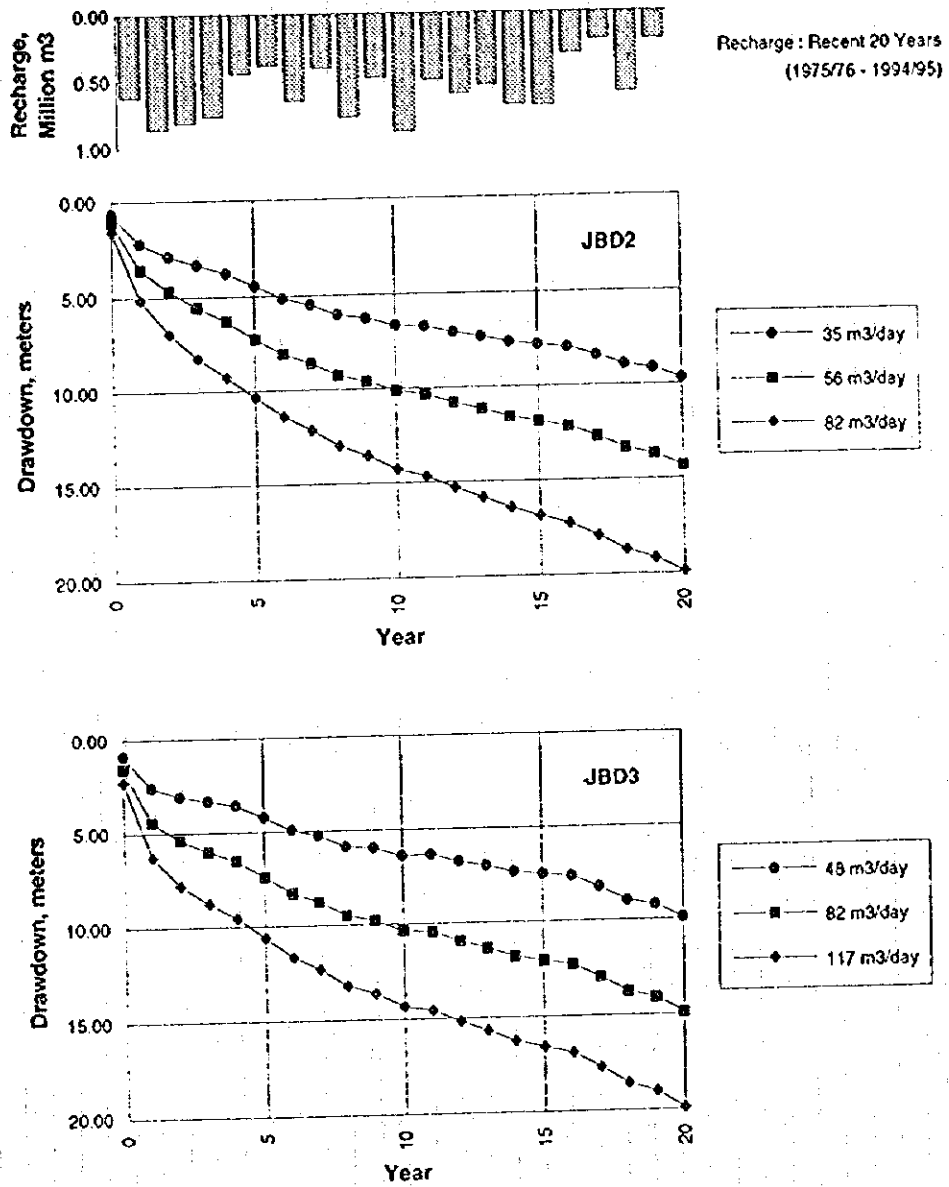


Figure 4.5.25 Variation of Groundwater Level at Exploratory Well - J. Berda

5. Water Supply

Supporting Report 5. Water Supply

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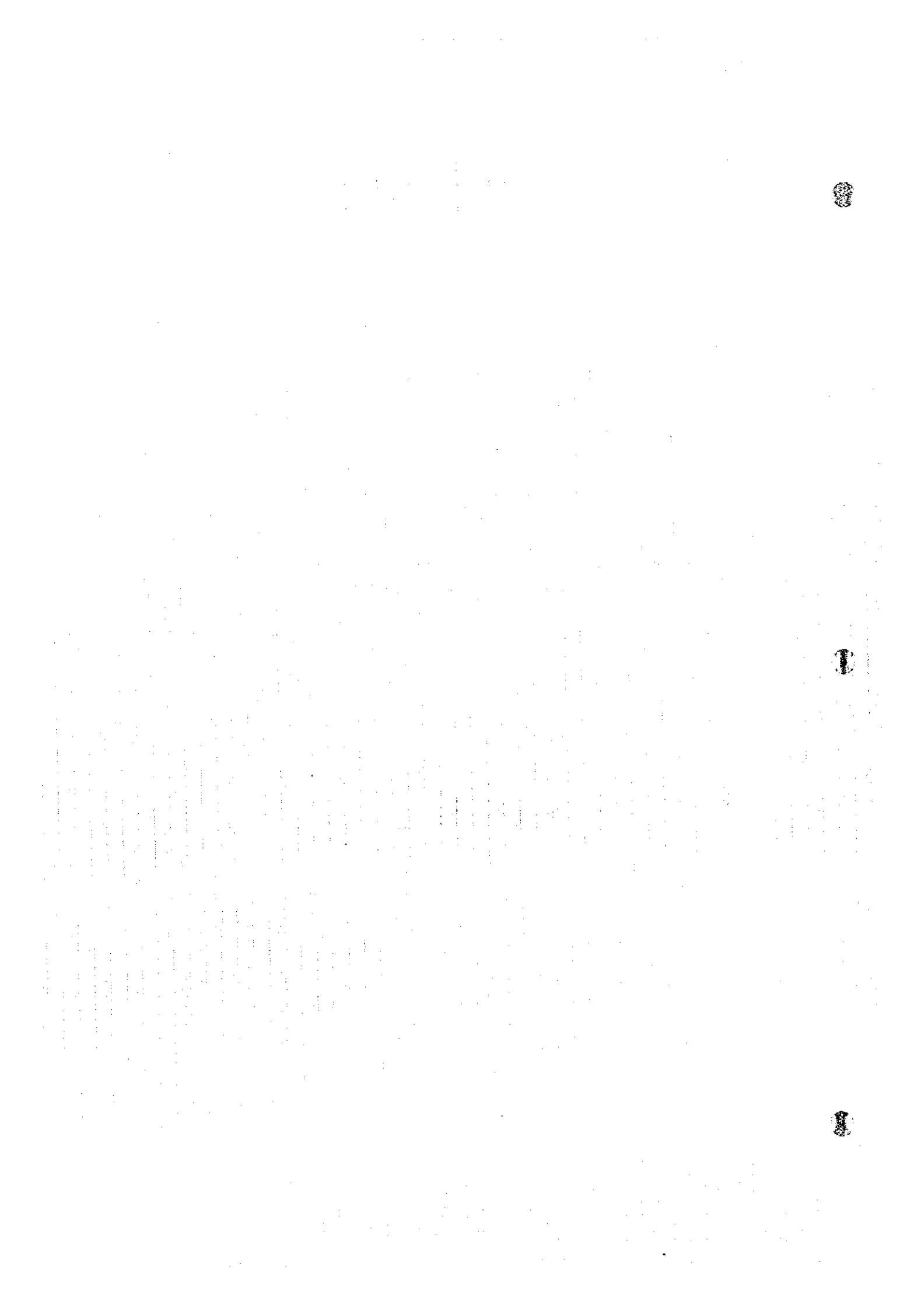


Table 5.1 Ain Gdah Supplied Douar

1. Existing Supplied Douars

1) Lower Pressure Zone (zone 6)

No.	Douars	Existing P.S.P (A)	Function'g P.S.P (B)	P.S.P, not functioning	Source Reserv.	Capacity (m3)	B/A(%)
1	Koudia Hamra	1	1	0	R1	3,000	
2	Boujmaat	5	5	0	R1	3,000	
3	Ain Jdida	1	1	0	R1	3,000	
4	Houmiat	3	3	0	R1	3,000	
5	Old Ellam	2	2	0	R1	3,000	
Total		12	12	0	R1	3,000	1

2) Lower Pressure Zone (zone 8)

No.	Douars	Existing P.S.P (A)	Function'g P.S.P (B)	P.S.P, not functioning	Source Reserv.	Capacity (m3)	B/A
1	Ain Gdah Centre	3	1	2	RU1	50	
2	Coperative Chababat	1	1	0	RS 2	50	
3	Dhar Hmooum	2	2	0	R1	3,000	
4	Old Dkhisi (I)	2	2	0	R1	3,000	
5	Old Dkhisi (II)	2	2	0	RU3	50	
6	Old Salem Safsafa (I)	1	1	0	R1	3,000	
7	Old Salem Safsafa (II)	3	3	0	RU4	2 x 50	
8	Ain Masji	2	2	0	RS V	100+150	
9	Old Abdeslam	3	3	0	RS V	100+150	
10	Old Ajana	3	3	0	RS V	100+150	
11	Lakhnigue	4	4	0	RS V	100+150	
12	Did ba	2	2	0	RS IV	200	
13	Sidi Fateh (I)	3	3	0	R1	3,000	
14	Sidi Fateh (II)	1	1	0	RU5	50	
15	Sidi Fateh (III)	1	1	0	RS III	200	
16	Laatatra (I)	3	3	0	R1	3,000	
17	Laatatra (II)	2	2	0	RU6	50	
18	Krifat	6	6	0	RS IV	200	
19	Bayada	7	7	0	RS III	200	
20	Old Dahou	7	7	0	RS II	200	
21	Blalat	3	3	0	RS II	200	
22	Nbiguiyene (I)	1	1	0	R1	3,000	
23	Nbiguiyene (II)	3	3	0	RU7	50	
24	Old Aajal (I)	1	1	0	R1	3,000	
25	Old Aajal (II)	6	6	0	RU8	50	
26	Old Salem Dhar (I)	2	2	0	RU9	50	
27	Old Salem Dhar (II)	2	2	0	RS I	2 x 200	
28	Grana Eloulia	10	10	0	RS I	2 x 200	
29	Grana Soufla	4	4	0	RS I	2 x 200	
30	Laatarma	6	6	0	RS I	2 x 200	
Total		96	94	2	14		0.98

Source: ONEP Fes

3) Lower Pressure Zone (zone 9)

No.	Dours	Existing P.S.P (A)	Function'g P.S.P (B)	P.S.P, not functioning	Source Reserv.	Capacity (m3)	B/A
1	Kodiat El Hamra	5	5	0	R1	3,000	
2	Ain Laayoune	1	0	1	RU1	50	
3	Dhar Bourzaik (I)	1	1	0	RU1	50	
4	Dhar Bourzaik (II)	1	1	0	R1	3,000	
5	Arzaza (I)	1	1	0	RU3	50	
6	Arzaza (II)	2	2	0	R1	3,000	
7	Arzaza (III)	1	1	0	RU4	50	
8	Kriaat	3	3	0	RS	200	
9	Beni Stiten	4	4	0	RS	200	
10	Krareze (I)	1	1	0	RU5	50	
11	Krareze (II)	1	1	0	RU6	50	
12	Krareze (III)	1	1	0	R1	3,000	
13	Old Laaroussi (I)	1	1	0	RU7	50	
14	Old Laaroussi (II)	1	1	0	RU8	50	
15	Old Laaroussi (III)	2	2	0	R1	3,000	
16	Hmri	2	2	0	RU9	50	
Total		28	27	1	-	-	0.96

4) High Pressure Zone (zone 10)

No.	Dours	Existing P.S.P (A)	Function'g P.S.P (B)	P.S.P, not functioning	Source Reserv.	Capacity (m3)	B/A
1	Touate	3	3	0	R2	1,500	
2	Bab El Koucha	2	2	0	RU1	50	
3	Tacht	2	2	0	RU2	50	
4	Laksar	3	3	0	RS I	200	
5	Mrarsa	3	3	0	RS II	200	
6	Ettllaka	3	3	0	R2	1,500	
7	Mssassa (I)	9	9	0	RS III	200	
8	Mssassa (II)	1	1	0	R2	1,500	
9	Oued Zitoun	2	2	0	RU3	50	
10	Bouaasme	3	3	0	RS III	200	
11	Zrarka	2	2	0	RS V	75	
12	Ain Ouazne	3	2	1	R2	1,500	
13	Beni Boussef	6	5	1	RS IV	100	
Total		42	40	2	-	-	0.95

Source: ONEP Fes

5) High Pressure Zone (zone 11)

No.	Dours	Existing P.S.P (A)	Function'g P.S.P (B)	P.S.P, not functioning	Source Reserv.	Capacity (m3)	B/A
1	Sadrat Moumen	6	6	0	R2	1,500	
2	Elomal	2	2	0	RS6	150	
3	Kritich	2	2	0	RS6	150	
4	Ain Ghafra	1	1	0	RS7	150+200	
5	Kodiat El Ghiran	2	2	0	RS7	150+200	
6	Kodiat El Harcha	3	3	0	RS7	150+200	
7	Old M'hamed	2	2	0	RS7	150+200	
8	Hmari	2	2	0	RS7	150+200	
9	Old Soltan	3	2	1	RS19	2 x 175	
10	Bab daoud	1	1	0	RS8	2 x 200	
11	Bousslahamat	2	1	1	RS8	2 x 200	
12	Mchawiin	2	2	0	RS8	2 x 200	
13	Chachia	2	2	0	RS8	2 x 200	
14	Lhjar Lhoumar	2	2	0	RS9	100	
15	Lhouitat	3	3	0	RS9	100	
16	Sidi Bouknadel	3	3	0	RS9	100	
17	Ben Kazat	1	1	0	R2	1,500	
18	Bouaaram	5	3	2	RS9	100	
19	Jbal Aghlal	3	3	0	RS9	100	
20	Ras Labyad	2	2	0	R2	1,500	
21	Astar I	2	2	0	RU1	50	
22	Ain Zahra	3	3	0	RS10	200	
23	Astar II	2	2	0	RS10	200	
24	Douiwat	3	3	0	RS10	200	
25	Kodiat Kabaz	3	3	0	RS11	150	
26	Msabha	6	5	1	RS11	150	
27	Jnan Abou Ben Amer	1	1	0	RU2	50	
28	Old Rahou	2	2	0	RS12	75	
29	Old Amer Belhaj (I)	3	2	1	R2	1,500	
30	Old Amer Belhaj (II)	1	1	0	RU3	50	
31	Old Tazi	2	2	0	R2	1,500	
32	Dhar El Ghanam	1	0	1	R2	1,500	
33	Kasbat Old Ahmed	3	3	0	R2	1,500	
34	Old Belarbi	1	1	0	RU4	50	
35	Dhar Jmal	2	2	0	RU5	50	
36	Jnan Tahar	2	2	0	RU6	50	
37	Ain Aissa	1	1	0	RU7	50	
38	Ben Chabaanate	2	2	0	RU8	50	
39	Old M'hamed	2	2	0	RS13	75	
40	Old Hsain	2	2	0	RU9	50	
41	Old Douali	1	1	0	RS14	100+150	
42	Beni Rachd	8	7	1	RS14	100+150	
43	El Kelaa	1	1	0	RS15-1	100	
44	Old Abdelkrim	7	7	0	RS15-2	200	
Total		110	102	8	-	-	0.93

Source: ONEP Fes

2. Planned Future Supply
Douar

3. Supply Douar of Ongoing Project

Name of Douars	Name of Douars
1 Chriguiyne	1 Gaada
2 Krarda	2 Ayne Zitoun
3 Zaouid	3 Nokt
4 Essap	4 Od. Ajana
5 Hammoudiyat	5 Amarat
6 Od. Taleb	6 Od. Aji
7 Ferricha	7 Ngoucht
8 Od. Daud	8 Od. Haj. amarat
9 Od. Moussa	9 Od. B. Amarat
10 Fkarna Od. Ali	10 Douibat
11 Dhamna	11 Abidat
12 Frama Od. Tkhil	12 Hrachna
13 Od. Malek	
14 Od. Abdeslam	
15 Od. Bousabek	

Source: ONEP Fes

Table 5.2 List of Supplied Douars in the Existing M'kansa Water Supply System

No.	Name of Douars	No.	Name of Douars	No.	Name of Douars
1	Klaba	31	Akkat	61	Oulad Fatna
2	Oulad Moussa	32	Gharbaoua	62	Oulad Hammou Lahmar
3	Oulad Bel Ghali	33	Znata	63	Azzouzate
4	Oulad Adya	34	Diouriyne	64	M'kaka
5	Laghchachma	35	Ghazouane	65	Chkiouyene
6	Beni Naiz	36	Ben Oujguel	66	Kariat Sidi Bouazza
7	Aarib	37	Azib Soltane	67	Laanabra
8	Mazaria	38	Azib Moulay Ali	68	Oulad Amer
9	M'kansa	39	Hanvi	69	Oulad Tahar
10	Laamour	40	Ouardigha	70	M'Babih
11	Boutouil	41	Taalba	71	Oulad Ahmed
12	Hmadate	42	Laagagda	72	Khiyam Bouchta
13	Taicha	43	Azib Laagagda	73	Lamsanra
14	Oulad Lgnaoui	44	Labdadoua	74	Oulad Yagoub
15	Sidi Lghazi	45	Al Kalaa	75	Oulad Aamra
16	Zianate	46	Zaamra	76	Oulad Jelloul
17	Tahryne	47	Oulad Boulaouane	77	Oulad Ben Hammou
18	Kleaa	48	Oulad Tyeb	78	R'hamna
19	Oulad Yechou	49	Bou Saadate	79	Oulad Kacem
20	Lakreaa	50	Ben Tahrate	80	Lkafa
21	Oulad Bouchaib	51	Oulad Zahra	81	Skhaska
22	Hachmat L'oued	52	Dachra	82	Lakdadcha
23	Hachmat Shira	53	Azzaba	83	Oulad Salem
24	Ouled Abdelkrim	54	Ghoufirat	84	R'mel
25	Laaroussyne	55	Gtabene	85	Cooperative Ghazouane I
26	Aoumarate	56	Khouaoura	86	Cooperative Ghazouane II
27	Oulad Slama	57	Laarbi Lkhaddar	87	cooperative Smara
28	Boujraine	58	Ahmed Ben Idris	88	Centre de M'kansa
29	Hmadate Oulad Slama	59	Oulad Ben Meni	89	Souk L'khmis
30	Ain Ber Zineldihajat	60	Oulad Hammou Meriem	90	Dhar Nouala

Source: ONEP Fes

Table 5.3 List of Supplied Douars in the Existing Karla Ba Mohamed Water Supply System

1 Majaara	5 Gueddara
2 Laamour	6 Bou Chammar
3 Beni Ahmed	7 Oulad Ben Abbou
4 Meaouna	8 Market at Karia Ba Mohamed

Table 5.4 List of Supplied Douars for Future Extension Lines in the Karia Ba Mohamed Water Supply System

Name of Commune	Name of Douars	
Karia Ba Mohamed	1 M'Hamid	
Beni Yasnouss	1 Cooperative Al Itihad	4 Ouled Ben Aissa
	2 Cooperative Takadoum	5 Ouled L'Haj Laarbi
	3 Croisement Chkoubiine	6 Chtiouine
My. Abdelkrim	1 Ouled Driss	5 Ben Akki
	2 Dchar Ali	6 Rouajaa
	3 Hamri Ali	7 Ouled Ben Jilali
	4 Hamri	8 Ouled Ben Abdelkrim
My. Bouchta	1 Chef Lieu	10 Sdari
	2 KM 66	11 Dhar Miazou
	3 Chouiba	12 Tachfichte
	4 Klouaa	13 Jbel Kissane
	5 Zaouia Bas	14 Choukar
	6 Zaouia Haout	15 Kattar
	7 Djjoukiine	16 Beni Oulass
	8 Chrouf	17 Zeroula
	9 Mejdama	18 Lamrakim
Bouchabel	1 Smouniine	
	2 El. Harzatte	
	3 Koualele	
Branch Line	1 Karmoud	10 Oulad Hmidou Kadour
Branch Line	2 Zraoula	11 Ouled Hadj Med
Branch Line	3 Homrane A. Bida	12 Mzaoura
Branch Line	4 Oulad Yahia	13 Ouled Ben HadeF
Branch Line	5 Lalla Aicha	14 Ouled Taib (Oumarat)
Branch Line	6 Zghimrat	15 Sidi Ali
Branch Line	7 Zouinat	16 Anakda
Branch Line	8 Boaffifat	17 Ahnancha
Branch Line	9 Ghzouana	18 Bouchabel
Sidi Abed	Branch Line 1 Oulad Bou Azza	
	Branch Line 2 Houara	

Source: ONEP Fes

Table 5.5 List of Existing Water Supply Facilities (Ain Defali)

Geographic Code			Name of Douar	Estimated Population	Rehabilitation	
Province	Circle	Commune			Dughole	Spring
Sidi	Had	Ain	AAOUFAT	406	0	1
Kacem	Kourt	Defali	AIN CHAMBA	692	0	1
			AIN DFALI	1,048	1	1
			AIN SEDDINE	90	0	0
			AIN SFESSEF	148	0	1
			AMAMA	601	0	1
			BNI CHELLAH	238	0	0
			BNI SENNANA	1,090	0	1
			BNI ZID	778	0	1
			BOUAJAJAT	115	0	0
			BOUAJOULAT	403	1	0
			BOUKOURATT	240	0	0
			CHAOUIA BIR	8,212	0	0
			CHAOUIA BOURYATEL	677	0	0
			CHAOUIA RMEL	1,088	0	0
			CHLEUH	258	0	1
			DAAF LAHFIRA	398	0	0
			DAAF OULD ALI	238	0	0
			DHAR KHARAZ	172	0	0
			DRIOUCHAT	200	0	0
			FADILIA	376	0	0
			FSSAHYEN	314	0	0
			HJAFNA RDAT	519	0	0
			JAAOUNA	346	0	0
			JDID	602	0	1
			JRAMNA	201	0	0
			KELAA	220	0	1
			KHOBZIANNE	791	0	0
			KRANES	458	0	0
			KRAOUCHA	749	0	1
			LAADIRAT	572	0	1
LAOUIAOULA	390	0	1			
LAHASBA	99	0	0			
LAHJAFRA BOUGDOUR	957	0	0			
LAHJAJMA	675	0	0			
LAHRAHRA	356	0	0			
MAADID	132	0	0			
MAKAM MOUGUI	570	0	0			
MOUALDA	427	0	1			
MRABIH	493	1	0			
OULAD BOUCHIRHA	454	0	0			
OULD MAHYOU	463	0	0			
OULD SALEM	202	0	0			
OULED AAROUB	123	1	0			
OULED BENYEFOU	322	0	1			
OULED BOUAMER	115	0	0			
OULED BOUAYEB	220	0	0			
OULED BOUBKER	356	0	0			
OULED GAID	890	1	1			
OULED KTIR	2,148	1	0			
OULED NOUAL	251	0	1			
OULED SALEM	141	1	0			
REGADA	72	0	0			
SLAICMA	354	0	0			
SLIM	1,347	0	1			
SOUHATT	320	0	0			
SOUSSAT	421	0	1			
Total		57 Douars		34,540	7	19

Table 5.6 List of Existing Water Supply Facilities (Teroual)

Geographic Code			Name of Douar	Estimated Population	Rehabilitation	
Province	Circle	Commune			Dughole	Spring
Sidi	Quezzane	Teroual	ACHIRA	390	0	1
Kacem			AIN ARSA	410	0	1
			AIN HADDAD	390	0	1
			AMALOU	280	0	1
			BAKKAJA	340	0	1
			BERIAT RMEL	240	0	1
			GHBALOU	820	1	1
			GLITA	395	0	1
			HADDARINE	590	0	1
			HUAR TOUIL	720	0	1
			HOUMAR	120	0	1
			INDGHAR	150	0	1
			KHANDAK BERD	475	0	1
			KOUDIA	260	0	1
			LALLA AICHA	130	0	1
			LATAMNA	298	0	1
			MERRAKINE	220	0	1
			MGUEROUEL	600	0	0
			OULA BAKKAL	340	0	1
			OULAD IMRANEA	120	0	0
			OULAD LAHCEN	215	0	1
			REMLA	220	0	1
			SIDI ALLAL ZGHARI	960	0	1
			TEROUAL	2,800	0	1
			ZLAYEH	190	0	0
			ZOURAK	575	0	1
Total			26 Douars	12,248	1	23

Table 5.7 List of Existing Water Supply Facilities (El Bibane)

Geographic Code			Name of Douar	Estimated Population	Rehabilitation	
Province	Circle	Commune			Dughole	Spring
Taounate	Ghafsai	El Bibane	AIN MERTAB	3,384	0	1
			AOUNANE	775	0	0
			ASTAR	341	0	0
			BABET EL BIR	1,033	0	1
			DOUEHAR	255	0	1
			OULAD BEN JEMAA	310	0	1
			RAS LAKBOUR	286	0	0
			RIF	312	0	0
			RKIBA	1,027	0	1
			TAZGHADRA	1,479	0	1
			ZAOUIA SIDI AHMED	177	0	1
Total			11 Douars	9,379	0	7

No.	Province	Circle	Commune	Type	Population	Sewd Ppou. Runt:90% Urban:90%	Live-stock (Targe)	Net Unit Wat. Dem'd (L/ha/d)	Net Water Dem'd (m3/d)	UWV (40%)	Gross Wat Demand (m3/d)	Dughole Yield (l/s)	Spring Yield (l/s)	Well Yield (l/s)	Toil G.W. Product (m3/d)	Surface W Product (m3/d)	Toil Source W (m3/d)	Water Balance (m3/d)
49	Sidi Kaorem	Quezzane	Ternoul	Rural	11,740	9,322	3,290	20	198	198	198	0	2,001	173	12,900	11,150	1,288	1,090
50	(26 communes)	Quezzane	Zehira	Rural	15,748	12,598	3,108	20	262	262	262	0	2,801	242	0	269	0	269
51			Am Darnj	Urban	1,248	1,132	1,112	30	35	23	23	0	0	0	0	43	0	43
52			Lamiyane	Rural	14,479	11,583	4,122	20	344	344	344	0	4,200	363	0	683	0	683
53			Sidi Houssein	Rural	11,023	8,818	3,166	20	186	186	186	0	4,100	346	0	346	0	346
54			Sidi Ahmed	Rural	10,248	8,198	3,640	20	175	175	175	0	1,500	130	0	285	0	285
55			S. Redouane	Rural	19,986	15,989	7,560	20	342	342	342	0	3,300	26	0	26	0	26
56			Imi Qhalla	Rural	17,799	14,230	8,180	20	309	309	309	0	3,300	26	0	311	0	311
57			Mizelroune	Rural	8,695	6,956	4,740	20	153	153	153	0	3,600	311	0	26	0	26
58			Niasmeouda	Rural	18,198	14,558	5,840	20	309	309	309	0	3,300	26	0	86	0	86
59			Omama	Rural	12,248	9,798	7,640	20	219	219	219	0	1,000	86	0	103,688	0	103,688
60			Quezzane	Urban	52,168	46,951	1,730	30	1,414	943	943	120	10,368	0	0	103,688	0	103,688
					193,590	160,212	53,520	-	3,846	966	966	4,872	19,991	19,991	13,400	13,361	0	13,361
61	Had Kourt	Had Kourt	Had Kourt	Urban	4,296	3,866	822	20	118	79	79	197	1,200	0	0	104	0	104
62			Mv. A. Kauber	Rural	8,815	7,068	6,568	20	161	161	161	0	0	0	0	0	0	0
63			Sidi Azrouz	Rural	15,796	12,637	9,148	20	280	280	280	0	0	0	0	0	0	0
64			Am Dettal	Rural	23,930	19,141	11,104	20	416	416	416	0	0	17	2,000	173	190	
65			Bro Oual	Rural	10,074	8,011	7,362	20	182	182	182	1,000	86	0	0	86	0	86
66			S.A. Al Hadi	Rural	11,491	9,193	5,956	20	202	202	202	0	0	0	0	0	0	0
67			S.A.B. Aissa	Rural	9,248	7,398	6,766	20	168	168	168	0	0	0	0	0	0	0
68			Khnebet	Urban	6,031	5,428	0	30	269	109	109	272	0,300	26	0	35	0	35
69			Khnebet	Rural	13,791	11,033	16,270	20	269	269	269	0	0	0	0	0	0	0
70			Oulad Nouel	Rural	11,512	9,210	16,750	20	244	244	244	0	0	0	0	0	0	0
71			S.Med. Chelh	Rural	7,527	6,022	7,530	20	143	143	143	0	0	0	0	0	0	0
72			Touoghar	Rural	11,437	9,150	7,630	20	201	201	201	0	0	0	0	0	0	0
73			Jori el Melha	Urban	10,187	9,168	1,938	30	281	187	187	488	0	0	10,000	864	0	864
74			Lannabach	Rural	19,453	15,563	8,396	20	336	336	336	0	0	0	242	259	0	259
					163,548	132,890	106,140	-	3,159	375	375	4	363	0,600	52	14,800	1,694	1,694
					357,138	293,102	159,660	-	7,005	1,341	1,341	11,354	20,400	17,640	28,200	2,437	15,555	7,209
75	Taza		Mija	Rural	11,161	8,929	3,678	20	190	190	190	0	3,225	281	0	281	0	281
76	(14 communes)		Berzha	Rural	9,763	7,810	2,943	20	165	165	165	0	0	0	0	0	0	0
77			Tannate	Urban	2,074	1,867	0	30	56	37	37	0	0	0	0	0	0	0
78			Tannate	Rural	8,592	6,926	2,698	20	147	147	147	0	0	0	0	0	0	0
79			El Gouzale	Rural	14,246	11,397	4,903	20	243	243	243	2,150	186	0,030	3	0	189	
80			Ben Fich	Rural	11,239	8,983	5,395	20	196	196	196	0	0	0	0	0	0	0
81			Kar El Ghar	Rural	11,013	8,810	4,169	20	189	189	189	0	0	0	0	0	0	0
82			Taifa	Rural	10,034	8,027	5,640	20	177	177	177	0	0	0	0	0	0	0
83			Taifa	Rural	87,170	69,943	31,880	-	1,514	37	37	1,551	2	186	3,280	284	0	470
84			Beni Lem	Rural	15,033	12,026	3,150	20	256	196	196	0	0	0	0	0	0	0
85			Oulad Chai	Rural	11,088	8,870	6,071	20	196	196	196	0	0	0	0	0	0	0
86			Oulad Zhar	Rural	26,121	20,896	11,221	-	452	0	452	0	0	0	0	0	0	0
87			Ben Fassen	Rural	30,683	24,546	5,150	20	267	267	267	2,800	242	0	0	242	0	242
88			R. El Fouki	Rural	9,718	7,774	4,905	20	170	170	170	0	0	0	0	0	0	0
					56,189	44,950	14,960	-	943	37	37	242	6,500	562	0	804	0	804
					169,480	135,789	58,061	-	2,909	37	37	428	9,780	846	0	1,274	0	1,274
					1,140,960	925,592	339,266	-	20,684	2,703	2,703	386	33,363	217,500	18,796	31,971	55,556	1,290

Table 5.8 - 5.11

No.	Province	Circle	Commune	Type	Popula- tion	Sex'd Popu- Rural/90% Urban/90%	Lave stock (Large)	Net Unit Wat. Dem'd (l/grd)	Lave- stock (Large)	Net Water Dem'd (m3/d)	UWV (35%)	Gross Wat Demand (m3/d)	Dughole Yield (l/s)	Spring Yield (l/s)	Well Yield (m3/d)	Toit G.W. Product (m3/d)	Surfaces W/ Product (m3/d)	Toit Source W/ Product (m3/d)	Water Balance (m3/d)		
																				Domes. (l/grd)	Net Unit Wat. Dem'd (l/head/d)
49	Sidi Kaecm	Quezzane	Fermal	Rural	12,242	9,794	3,290	23	235	235	0	0	173	12,990	1115	1298	0	1,298	1035		
50			Ziphra	Rural	16,421	13,137	3,309	23	312	312	0	0	0	2,800	2,420	269	0	269	-43		
51			Ain Dori	Urban	1,131	1,131	3,858	35	42	42	25	67	0	0	0	43	0	0	-43		
52			Lamraa	Rural	15,098	12,078	4,122	23	290	290	0	0	3,200	3,630	0	683	0	683	393		
53			Sidi Bousber	Rural	11,484	9,195	3,160	23	221	221	0	0	0	4,000	3,461	0	346	0	346	155	
54			Sidi Ahmed	Rural	10,686	8,549	3,600	23	207	207	0	0	0	1,100	91	0	285	0	285	78	
55			S. Redouane	Rural	20,840	16,672	7,260	23	408	408	0	0	0	1,500	130	0	130	0	130	-276	
56			Bin Qualla	Rural	18,560	14,848	8,180	23	366	366	0	0	0	0	26	0	26	0	26	-340	
57			Mzefroune	Rural	9,067	7,254	4,740	23	181	181	0	0	0	0	311	0	311	0	311	130	
58			Masrouda	Rural	18,976	15,181	5,840	23	367	367	0	0	0	0	26	0	26	0	26	-341	
59			Chunana	Rural	12,772	10,218	7,640	23	258	258	0	0	0	0	86	0	86	0	86	-172	
60			Quezzane	Urban	54,398	48,958	1,730	35	20	1,719	1,003	2,722	120	10,368	0	0	103,68	0	103,68	7,646	
			Total of Circle		201,866	167,065	53,520	-	-	4,604	1,028	5,632	127	10,991	1,158	13,861	0	13,861	8,219		
61			Had Kourt	Urban	4,480	4,032	822	35	20	144	84	228	1,200	104	0	0	104	0	104	-124	
62			Mv. A. Kader	Rural	9,213	7,370	6,568	23	20	189	0	0	0	0	0	0	0	0	0	-189	
63			Sidi Azrouz	Rural	16,371	13,171	9,148	23	20	331	0	331	0	0	0	0	0	0	0	-331	
64			Ain Dfali	Rural	24,953	19,962	11,041	23	20	492	0	492	0	0	173	190	0	190	302		
65			Bin Oual	Rural	10,442	8,354	7,262	23	20	214	0	214	1,000	861	0	861	0	861	-1,285		
66			S.A. Al Hadi	Rural	11,983	9,586	5,956	23	20	238	0	238	0	0	0	0	0	0	0	-198	
67			S.A.B. Aissa	Rural	9,643	7,714	6,766	23	20	198	0	198	0	0	0	0	0	0	0	-198	
68			Khanchet	Urban	6,289	5,660	0	35	20	198	116	314	0,300	26	0	0	35	0	35	-279	
69			Khanchet	Rural	14,380	11,504	16,270	23	20	313	0	313	0	0	0	0	0	0	0	-313	
70			Oulad Nouel	Rural	12,084	9,603	16,750	23	20	271	0	271	0	0	0	0	0	0	0	-271	
71			S. Med. Chelba	Rural	7,839	6,279	7,530	23	20	167	0	167	0	0	0	0	0	0	0	-167	
72			Taought	Rural	11,926	9,541	7,630	23	20	242	0	242	0	0	0	0	0	0	0	-242	
73			Jorf el Melba	Urban	10,622	9,560	1,938	35	20	340	198	538	0	0	0	0	0	0	0	-538	
74			Lamrabch	Rural	20,264	16,227	8,396	23	20	398	0	398	0	0	0	0	0	0	0	-398	
			Total of Circle		170,538	138,569	106,140	-	-	3,753	398	4,133	4	363	52	14,800	1,694	1,694	-2,439		
			Total in Province of Sidi Kaecm		372,404	305,634	159,660	-	-	8,339	1,426	9,765	131	11,354	20,400	1,764	28,270	2,437	15,555	5,790	
75	Taza	Masia	Rural	11,638	9,310	3,678	23	20	225	0	225	0	0	0	0	0	0	0	0	-225	
76		Banba	Rural	10,190	8,144	2,943	23	20	196	0	196	0	0	0	0	0	0	0	0	-196	
77		Tanasse	Urban	2,163	1,947	0	35	20	68	40	108	0	0	0	0	0	0	0	0	-108	
78		Tanasse	Rural	9,028	7,222	2,698	23	20	174	0	174	0	0	0	0	0	0	0	0	-174	
79		El Gouzate	Rural	9,376	7,501	2,452	23	20	180	0	180	0	0	0	0	0	0	0	0	-180	
80		Beni Fish	Rural	14,855	11,884	4,905	23	20	288	0	288	2,15	186	0,03	3	0	189	0	189	-99	
81		Kaf El Ghar	Rural	11,709	9,367	5,395	23	20	232	0	232	0	0	0	0	0	0	0	0	-232	
82		Taifa	Rural	11,484	9,187	4,169	23	20	224	0	224	0	0	0	0	0	0	0	0	-224	
83		Taifa	Rural	10,463	8,370	5,640	23	20	209	0	209	0	0	0	0	0	0	0	0	-209	
		Total of Circle		90,896	72,932	31,880	-	-	1,796	40	1,836	2	186	3,28	284	0	470	0	470	-1,366	
84	Taza	Beni Lem	Rural	15,676	12,541	5,150	23	20	304	0	304	0	0	0	0	0	0	0	0	-304	
85		Oulad Chif	Rural	11,562	9,250	6,071	23	20	231	0	231	0	0	0	0	0	0	0	0	-231	
		Total of Circle		27,238	21,791	11,221	-	-	535	0	535	0	0	0	0	0	0	0	0	-535	
86		Oulad Zhar	Rural	16,463	13,170	4,905	23	20	318	0	318	2,80	242	0,00	0	0	242	0	242	-76	
87		Beni Hrazen	Rural	31,994	25,595	5,150	23	20	604	0	604	0	0	0	0	0	0	0	0	-604	
88		R. El Fouki	Rural	10,133	8,106	4,905	23	20	201	0	201	0	0	0	0	0	0	0	0	-201	
		Total of Circle		86,590	66,871	14,960	-	-	1,123	0	1,123	3	242	6,50	562	0	804	0	804	-319	
		Total in Province of Taza		176,724	141,594	58,061	-	-	3,654	40	3,694	5	428	9,78	846	0	1,274	0	1,274	-2,220	
		Total of the Study Area		1,189,728	965,159	339,266	-	-	24,658	2,963	27,521	366	33,363	21,750	18,796	37,000	3,197	55,356	1,290	56,646	29,125

Table 5.8 - 5.11

No.	Province	Circle	Commune	Type	Popula- tion	Sex'd Popu- Rural:10% Urban:90%	Liv- stock (Large)	Net Unit Wat. Dem'd Domes. Livestocks (l/head/d)	Net Water Dem'd (m3/d)	UHW (30%)	Gross Wat Demand (m3/d)	Dughole Yield (l/s)	Spring Yield (l/s)	Well Yield (m3/d)	Tot G.W. Product (m3/d)	Surface W/ Product (m3/d)	Tot Source, W/ Balance (m3/d)	
49	Sidi Kaecem	Oueziane	Ternoul	Rural	12,676	10,141	3,290	27	284	0	284	0	2,00	173	12,90	11,5	1,288	
50			Zepira	Rural	17,004	13,603	3,800	27	377	0	377	0	2,40	242	0	269	269	-108
51			Ain Doui	Urban	1,222	358	43	20	81	0	81	0	0,00	0	0,50	43	43	-38
52			Lamjana	Rural	15,644	12,402	4,132	27	350	0	350	0	4,00	363	0	683	683	333
53			Sidi Bousber	Rural	11,902	9,522	3,160	27	267	0	267	0	4,00	346	0	346	346	79
54			Sidi Ahmed	Rural	11,065	8,852	3,600	27	250	0	250	0	0,10	263	0	263	263	35
55			S. Redouane	Rural	21,580	17,266	7,560	27	489	0	489	0	1,50	130	0	130	130	-189
56			Bni Quaila	Rural	19,219	15,375	8,180	27	440	0	440	0	0,30	26	0	26	26	-124
57			Mizelroume	Rural	9,308	7,510	4,740	27	217	0	217	0	3,60	311	0	311	311	84
58			Slasemoula	Rural	19,649	15,719	5,940	27	442	0	442	0	0,30	26	0	26	26	-116
59			Oumana	Rural	13,225	10,580	7,640	27	309	0	309	0	1,00	86	0	86	86	-223
60			Oueziane	Urban	56,329	50,096	1,730	43	3,664	1,093	3,278	120	10,368	0	0	103,68	0	10,368
61			Had Kourt	Urban	209,029	172,991	53,520	-	5,664	1,120	6,784	127	10,991	19,80	1,712	13,40	1,158	13,861
62			Mv. A. Kader	Rural	4,639	4,175	822	43	182	91	273	120	0,00	0	0	104	0	104
63			Sidi Azouz	Rural	17,056	13,645	9,148	27	226	0	226	0	0,00	0	0	0	0	-226
64			Ain Defali	Rural	25,838	20,670	11,104	27	591	0	591	0	0,20	17	2,00	173	190	-401
65			Bni Oual	Rural	10,813	8,650	7,262	27	255	0	255	0	0,00	0	0	86	86	-169
66			S.A. Al Hadi	Rural	12,407	9,926	5,956	27	286	0	286	0	0,00	0	0	0	0	-286
67			S.A.B. Aissa	Rural	9,986	7,989	6,766	27	236	0	236	0	0,00	0	0	0	0	-236
68			Khmetbet	Urban	6,512	5,861	0	43	252	126	378	0,30	26	0,10	9	35	35	-343
69			Khachel	Rural	14,891	11,913	16,270	27	370	0	370	0	0,00	0	0	0	0	-370
70			Qhad Souti	Rural	12,430	9,944	16,750	27	319	0	319	0	0,10	9	0	87	87	-292
71			S.Med. Chelh	Rural	8,127	6,502	7,530	27	198	0	198	0	0,00	0	0	69	69	-129
72			Taouglit	Rural	12,349	9,879	7,650	27	290	0	290	0	0,00	0	0	0	0	-290
73			Jorf el Meilha	Urban	10,999	9,899	1,928	43	431	216	647	0	0,00	0	10,00	864	864	217
74			Lamrabich	Rural	21,004	16,803	8,396	27	479	0	479	0	0,20	17	2,80	242	259	-220
75			Total of Circle		176,591	143,488	106,140	-	4,511	433	4,944	4	363	0,60	52	1,694	1,694	
76			Total in Province of Sidi Kaecem		385,620	316,479	159,660	-	10,175	1,553	11,728	131	11,354	20,40	1,764	28,20	2,437	
77	Taza	Mailla		Rural	12,051	9,641	3,678	27	271	0	271	0	3,25	281	0	281	0	-271
78			Bragha	Rural	10,542	8,434	2,943	27	237	0	237	0	0,00	0	0	0	0	-237
79			Tainasse	Urban	2,239	2,015	0	43	87	44	131	0	0,00	0	0	0	0	-131
80			Tainasse	Rural	9,348	7,478	2,698	27	210	0	210	0	0,00	0	0	0	0	-210
81			El Gouzate	Rural	9,709	7,767	2,452	27	217	0	217	0	0,00	0	0	0	0	-217
82			Beni Raah	Rural	15,382	12,306	4,905	27	347	0	347	0	1,86	0,03	3	189	189	-158
83			Kaf El Ghar	Rural	12,125	9,700	5,395	27	278	0	278	0	0,00	0	0	0	0	-278
84			Taifa	Rural	11,891	9,513	4,169	27	269	0	269	0	0,00	0	0	0	0	-269
85			Trauba	Rural	10,454	8,667	5,640	27	251	0	251	0	0,00	0	0	0	0	-251
86			Total of Circle		94,121	75,521	31,880	-	2,167	44	2,211	2	186	3,28	284	0	470	
87			Total in Province of Taza		16,232	12,986	5,150	27	366	0	366	0	0,00	0	0	0	0	-366
88			O. Amil	Rural	11,972	9,578	6,071	27	277	0	277	0	0,00	0	0	0	0	-277
89			Qhad Zhar	Rural	28,204	22,564	11,221	-	643	0	643	0	0,00	0	0	0	0	-643
90			Bni Fassen	Rural	17,037	13,638	4,905	27	383	0	383	0	2,80	242	0	242	242	-141
91			R. El Fouk	Rural	33,170	26,504	14,905	27	731	0	731	0	6,90	562	0	562	562	-169
92			Total of Circle		10,493	8,394	4,905	27	241	0	241	0	0,00	0	0	0	0	-241
93			Total in Province of Taza		60,670	48,556	14,960	-	1,355	0	1,355	3	242	6,90	562	0	804	
94			Total of the Study Area		182,995	146,621	58,061	-	4,165	44	4,209	5	428	9,78	846	0	1,274	
95					1,231,952	999,416	339,266	-	29,999	3,093	33,092	386	33,663	217,50	18,796	37,00	55,356	
96								-									56,646	
97								-									23,551	

Table 5.8 - 5.11

No. Province	Circle	Commune	Type	Popula- tion	Sevd Popu. Rural:80% Urban:20%	Livestock (Large)	Net Unit Wat. Demand (lit/d)	Net Unit Wat. Demand (l/head/d)	Net Water Dem'd (m3/d)	UPW (26%)	Gross Wat. Demand (m3/d)	Dughole Yield (l/s)	Spring Yield (l/s)	Well Yield (l/s)	Total G.W. Product (m3/d)	Surface W Product (m3/d)	Toit Source. W. Balance (m3/d)	Water			
49	Sidi Kaecem	Ternoul	Rural	13,126	10,501	3,296	31	20	335		335	0	2,00	173	12,90	1,288	0	1,288	953		
50		Zahra	Rural	17,607	14,086	3,300	31	20	447		447	0.31	2,80	242	0	269	0	269	-178		
51		Ain Dera	Urban	1,407	1,266	358	52	20	67	29	96	0	0,00	0	0,50	43	0	43	-53		
52		Lamjanar	Rural	16,189	12,951	4,122	31	20	414		414	3,70	4,20	363	0	683	0	683	269		
53		Sidi Bouabter	Rural	12,525	9,860	3,160	31	20	315		315	3,20	0,10	9	0	285	0	285	-10		
54		Sidi Ahmed	Rural	11,458	9,106	3,606	31	20	295		295	3,20	0,10	9	0	130	0	130	-447		
55		S. Medouane	Rural	22,346	17,877	7,560	31	20	577		577	0	1,50	130	0	26	0	26	-372		
56		Ben Quaila	Rural	19,901	15,921	8,180	31	20	518		518	0	0,30	26	0	311	0	311	56		
57		Mazrouane	Rural	9,722	7,778	4,740	31	20	255		255	0	3,60	311	0	26	0	26	-196		
58		Macrouda	Rural	20,347	16,278	8,840	31	20	522		522	0	0,30	26	0	86	0	86	-277		
59		Ounana	Rural	13,694	10,955	7,640	31	20	363		363	0	1,00	86	0	10,368	0	10,368	6448		
60		Cherzane	Urban	58,258	52,495	17,340	52	20	2,735	1,185	3,920	129	10,368	0,00	0	0	0	0	13,861	5,814	
		Total of Circle	-	216,489	179,134	53,520	-	-	6,843	1,214	8,057	127	10,991	19,801	1,712	13,40	1,04	0	104	-221	
61		Had Kourt	Urban	4,803	4,322	822	52	20	227	98	325	1,20	0,00	0	0	0	0	0	0	-265	
62		Mv. A. Kader	Rural	9,878	6,868	31	20	265		265	0	0,00	0	0	0	0	0	0	0	-465	
63		Sidi Azouz	Rural	17,661	14,129	9,146	31	20	465		465	0	0,00	0	0	190	0	190	-507		
64		Ain Dera	Rural	26,756	21,408	11,044	31	20	697		697	0	0,20	17	2,00	173	0	173	16		
65		Ben Oual	Rural	11,196	8,957	7,262	31	20	299		299	1,00	0,00	0	0	86	0	86	-213		
66		S.A. El Hadi	Rural	12,848	10,278	5,956	31	20	316		316	0	0,00	0	0	0	0	0	-336		
67		S.A.B. Aissa	Rural	10,340	8,272	6,766	31	20	277		277	0	0,00	0	0	0	0	0	-277		
68		Kimchet	Urban	6,743	6,069	0	52	20	316	137	453	0,30	26	0	9	35	0	35	-418		
69		Kharabet	Rural	15,419	12,335	16,270	31	20	431		431	0	0,00	0	0	0	0	0	0	-431	
70		Quid Nouel	Rural	12,871	10,297	16,750	31	20	369		369	0,90	78	0	9	87	0	87	-382		
71		S.Med. Chelh	Rural	8,416	6,733	7,530	31	20	231		231	0,80	69	0	0	69	0	69	-162		
72		Taouhit	Rural	12,787	10,230	7,630	31	20	340		340	0	0,00	0	0	0	0	0	-340		
73		Jort el Meilha	Urban	11,390	10,251	1,938	52	20	539	234	773	0	0,00	0	10,00	864	0	864	91		
74		Lamrabich	Rural	21,750	17,400	8,396	31	20	365		365	0	0,20	17	2,80	242	0	242	-306		
		Total of Circle	-	182,858	146,581	106,140	-	-	5,357	469	5,826	4	363	0,60	52	14,80	1,279	1,694	-1,132		
		Total in Province of Sidi Kaecem	-	399,308	327,715	159,660	-	-	12,200	1,043	13,883	131	11,354	20,40	1,764	28,20	2,437	15,555	1,672		
75	Taza	Misla	Rural	12,479	9,983	3,678	31	20	321		321	0	3,25	281	0	281	0	281	-80		
76		Birgha	Rural	10,916	8,733	2,943	31	20	280		280	0	0,00	0	0	0	0	0	-156		
77		Tannaste	Urban	2,319	2,087	0	52	20	109	47	156	0	0,00	0	0	0	0	0	-156		
78		Tannaste	Rural	9,880	7,744	2,698	31	20	248		248	0	0,00	0	0	0	0	0	-248		
79		El Gouzate	Rural	10,054	8,043	2,452	31	20	257		257	0	0,00	0	0	0	0	0	-257		
80		Beni Fish	Rural	15,928	12,742	4,905	31	20	410		410	2,15	186	0,03	3	189	0	189	-221		
81		Kaf El Ghar	Rural	12,555	10,044	5,395	31	20	328		328	0	0,00	0	0	0	0	0	-328		
82		Tala	Rural	12,313	9,850	4,169	31	20	318		318	0	0,00	0	0	0	0	0	-318		
83		Imba	Rural	11,219	8,975	5,640	31	20	295		295	0	0,00	0	0	0	0	0	-295		
		Total of Circle	-	97,463	78,201	31,880	-	-	2,566	47	2,613	2	186	3,38	284	0	0	0	-432		
84	Taza	Beni Lem	Rural	16,808	13,446	5,150	31	20	432		432	0	0,00	0	0	0	0	0	0	-432	
85		Quid Chri	Rural	12,397	9,918	6,071	31	20	326		326	0	0,00	0	0	0	0	0	0	-326	
		Total of Circle	-	29,205	23,364	11,221	-	-	758	0	758	0	0,00	0	0	0	0	0	0	-758	
86	O. Amul	Quid Zbar	Rural	17,652	14,122	4,905	31	20	452		452	2,80	242	0,00	0	242	0	242	-210		
87		Beni Frassen	Rural	34,306	27,445	5,150	31	20	866		866	0	6,50	562	0	562	0	562	-304		
88		R. El Foudj	Rural	10,865	8,692	4,905	31	20	284		284	0	0,00	0	0	0	0	0	0	-284	
		Total of Circle	-	62,823	50,259	14,960	-	-	1,602	0	1,602	3	242	6,50	562	0	0	0	804	-798	
		Total in Province of Taza	-	189,491	151,824	58,061	-	-	4,926	47	4,973	5	428	9,78	846	0	0	0	1,274	-3,659	
		Total of the Study Area	-	1,275,678	1,034,886	339,266	-	-	35,810	3,324	39,134	386	33,363	217,50	18,796	37,00	3,197	55,356	1,290	56,646	17,512