TWIN PLATTE
NATURAL RESOURCES DISTRICT

PO Box 1347
North Platte NE 69103-1347
Phone 308.535.8080

2012 ANNUAL REPORT OF WATER USE ACTIVITIES IN THE TWIN PLATTE NRD

FOR THE 2013 PLATTE BASIN MEETING

JUNE 20, 2013

SIDNEY, NEBRASKA

2012

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ANNUAL REPORT OF WATER USE ACTIVITIES IN THE TWIN PLATTE NRD TO MEET THE REQUIREMENTS OF THE INTEGRATED MANAGEMENT PLAN FOR THE 2012 BASIN-WIDE MEETING

I. SUMMARY

A. This report is being prepared to review activities within the TPNRD during 2012. This report has been compiled for the 2013 Basin-wide meeting.

II. DEFINITIONS

A. Offset – A reduction in irrigated acres, or consumptive use at one or more locations that serves to compensate for a transfer of water to a new location. There can be no new depletions to the river.

B. Variance – This would be an exception to the current adopted Rules and Regulations of the TPNRD. An example could be exception to the stay on new irrigated acres and new consumptive uses while providing for adequate offsets or transfers to assure there are no net increases in depletion to the river, impacts to the river, or impacts to existing (ground or surface) users.

C. Transfers – Allows for the consumptive use of water to be changed without causing an increase in depletions to the river or an impact to existing (ground or surface water) users. When determining depletions and accretion to the river, the TPNRD uses the agreed upon methodology of the Platte Basin NRD's which ensures the timing, location, and amount of depletions to the river are being met.

III. CERTIFIED ACRES

A. The District began certifying ground water irrigated acres in December 2005. The initial certification process ended with the effective date of the amendments to the Rules and Regulations on December 16, 2010. A map showing the location and number of certified irrigated acres can be found in Appendix A. Annually the TPNRD tracks any new certifications and any acres that have permanently removed their irrigation rights through the modification of the certified irrigated acres process.

B. From 2011 to 2012 there was a slight variation in the total number of certified irrigated acres due to additions and de-certifications to the certified irrigated database. In order to be certified as irrigated, lands were required to be irrigated one time between 2000 and 2004. If

this could not be determined by using infrared photography, then documentation is to be provided to our office and placed on file. Changes are not made without proper proof and approval from the TPNRD Board of Directors. Other possible changes in irrigated acres also with Board approval could be from acres coming out of programs such as CRP, or for acres being transferred from one county to another county. For 2012 there was an increase in irrigated acres by 603.37 acres. Of those acres, 186.0 certified irrigated acres came out of the CRP program. The remaining 377.81 acres were due to incorrect certification of acres originally. Please refer to Table 1 below.

Table 1. Certified Irrigated Acres by County

County	2011	2012	Change '11-'12
Arthur	12,440.79	12,191.33	-249.46
Keith	114,658.52	114,627.68	-30.84
Lincoln	181,458.36	182,342.03	+883.67
McPherson	9,416.57	9,416.57	0.0
Total	**317,974.24**	**318,975.44**	**+603.37**

IV. APPROVED TRANSFERS

A. The TPNRD allows for transfers of certified irrigated acres to occur as long as a transfer does not conflict with the TPNRD Rules and Regulations. Transfers are prohibited to cross river basin boundaries. For example, a landowner may own land in both the North Platte and South Platte River Basins, but he cannot de-certify the acres from the South Platte River Basin and transfer those acres to a pivot that is located in the North Platte River Basin. Transfers may take place from the North Platte River Basin into the Platte River Basin as long as the de-certified acres are being transferred downstream. The same is true with transferring certified irrigated acres from the South Platte River Basin into the Platte River Basin.

B. Transfers are allowed to occur within flow lines (see map in Appendix B). These flow lines limit the impact on existing (ground or surface water) users. These lines were developed using the major diversion points in the TPNRD, and the movement of ground water to the rivers. A transfer can cross these lines moving west to east but not move upstream or east to west which would increase the chance of impacting an existing (ground or surface water) user. This transfer rule helps determine there will be no new depletions to the North, South, and Platte Rivers, and any required offsets will be located upstream of the new water use.

C. Transfers are not allowed off any land that is located within the one mile boundary of villages, and the two mile boundary of a city. Transfers are allowed into this area from outside this area on a permanent basis. Transfers are not allowed within this area unless it is in the

same field, such as producer de-certifying his corners to put under an existing ¾ pivot to fully go around.

D. Transfers are allowed to move from a higher Stream Depletion Factor (SDF) to a lower SDF at a one-to-one rate. If a transfer is requested to move from a lower SDF to a higher SDF, then the amount of transferable acres are reduced by the difference of the two SDF percentages and may not be at a one-to-one rate. By reducing the acres eligible to be transferred to a new location, the impact to the river remains the same over a 50 year period.

E. For calendar year 2012, the District approved 41 transfers. The total number of acres involved in these transfers considered to be new or moved to a new location was 1,841.83 acres. The total number of acres involved in these transfers considered for offset or de-certified acres was 2,012.98 acres. Each transfer resulted in no net increase in stream depletions. The majority of these transfers are at a one-to-one rate; a few transfers were at a more-to-one ratio. For transfers that were not at a one-to-one ratio, an additional 16.66 acres were dried up (1,841.83 new acres + 16.66 additional acres dried up = 1858.49 total de-certified acres). Producers are also allowed to de-certify acres at the current location and place those acres into a TPNRD water bank account which allows the producer unlimited time to re-locate those acres to a new location. In 2012 there were 154.6 acres placed into the TPNRD water bank account when they did not immediately have a location to transfer the acres to. The only stipulations are that the TPNRD will get any credit for those acres being not irrigated in the short-term, and they must comply with the TPNRD Rules and Regulations when they are ready to be re-located. The average length of duration is less than one year. Detailed data regarding the location, timing, and amount associated with each transfer can be found in Appendix C.

F. Definition - Transfers – Allows for the consumptive use of water to be changed without causing an increase in depletions to the river or an impact to existing (ground or surface water) users. When determining depletions and accretion to the river, the TPNRD uses the agreed upon methodology of the Platte Basin NRD's which ensures the timing, location, and amount of depletions to the river are being met.

V. WELL CONSTRUCTION PERMITS

A. See Table 2 Summary Table for Well Permits at the end of this section.

B. Supplemental Ground Water Wells

The TPNRD has issued Supplemental Ground Water Wells (coded SG). These are ground water wells that supplement an already existing ground water well. There are no increased acres associated with these wells. For example, a well may irrigate two pivots; that producer could apply for a variance for another ground water well (supplemental well). For calendar

year 2012, the TPNRD issued two Supplemental Ground Water Well Permits with no new consumptive use.

C. Supplemental Surface Water Wells

The TPNRD has issued Supplemental Surface Water Well Permits (coded SS) in the past and is no longer permitting these wells. These are ground water wells that can be used only when their surface water needs are not being met. There is a legal binding contract between the producer and the NRD. These wells are only to be used when the surface water rights have been exhausted. If a producer is found abusing this contract, the ground water well will immediately be in violation, and a cease and desist order will be issued for that well. For calendar year 2012, the TPNRD issued no Supplemental Surface Water Well Permits.

D. Replacement Wells

The TPNRD has issued Replacement Well Permits (coded RP). These are replacement wells for a well that has already been registered, and for one reason or another has failed or is no longer producing as originally intended. For calendar year 2012, the TPNRD issued 25 replacement well permits. For details of these permits refer to Appendix D.

E. Temporary Wells

The TPNRD has issued Temporary Well Permits (coded TP). These are wells that are intended to serve for a limited time. For example, the TPNRD allowed a TP well to be used when a road project was underway north of Ogallala so there would be water to help compact the surface of the ground. For 2012, there were no Temporary Water Well Permits issued.

F. De-Watering Wells

The TPNRD has issued De-Watering Well Permits (coded DW). These are wells that are intended to serve a limited time defined as less than 90 days. For example, the TPNRD allowed de-watering wells to be used in conjunction with the Village of Sutherland lowering ground water levels so they could lay new water pipes from their new well field. For calendar year 2012, the TPNRD issued one De-Watering Well Permit for an upcoming viaduct project.

G. New Well Permits

The TPNRD has issued New Well Permits (coded NP). These are wells that are intended to be used to irrigate acres being transferred from the original location to a new location where there is not an existing irrigation well. For example, the TPNRD might allow flood irrigated acres to be de-certified at their original location and transferred to a new location (as long as there is no new depletions) where they could be placed under a pivot that does not have a well associated with it. For calendar year 2012, the TPNRD issued 17 New Well Permits. For details of these permits refer to Appendix D. For these 17 new well permits there was no new

consumptive use associated with these wells, and when possible the Board required well decommissioning or modifying the existing wells to pump less than 50 gpm (livestock) use for the old wells.

H. Industrial Wells

The TPNRD can issue industrial well permits (coded IN). These are wells where commercial or industries may have needed wells, or need another source of water due to water quality issues. For calendar year 2012, the TPNRD issued zero Industrial Well Permits. For details of these permits refer to Appendix D.

I. OTHER PERMITS

At this time there are no other permits to report.

Table 2. Summary Table for Well Permits

Well Permit Type	**Total**
Supplemental Ground Water Wells - SG	2
Supplemental Surface Water Wells - SS	0
Replacement Wells - RP	25
Temporary Wells - TP	0
De-Watering Wells - DW	1
New Well - NP	17
Industrial – IN	0
Total	45

VI. VARIANCES

A. Variances can be pursued for a variety of reasons (i.e. a new ground water well permit for acres that have been historically irrigated using a different well; a transfer is a type of variance). The TPNRD Board reviews variances each month (except December) on a case-by-case basis. For a summary of variances pertaining to new wells, refer to Table 2 above. For a summary of variance pertaining to transfers of certified irrigated acres, refer to Appendix C.

VII. MUNICIPAL ACCOUNTING

A. Determining the baseline use – for all Cities and Villages located in the TPNRD - pumping and discharge rates were requested as far back as could be documented. For all of the communities in the TPNRD, except the City of North Platte, discharge to a sewage pond or river was used; therefore, we figured one hundred percent consumption of pumped figures. For North Platte and Ogallala we used the actual discharge figures. Discharge numbers were subtracted from pumping numbers to determine the annual amount of consumptive use per city or village. The Department of Economic Development estimated population figures were used in non-census years; if not available then the City and Village provided population figures, and when census figures were available, those figures were used. Then the annual consumption was divided by population to determine the baseline per person per year. Then the baseline use per person was divided by 365.25 days to give us the baseline use per person per day. The summary charts of these computations are found in Chart 5 in this section for each City and Municipality.

B. Reporting Data for Cities and Villages with a Municipal Transfer Permit – North Platte

1. The City of North Platte is the only community in the TPNRD that has a municipal transfer permit from the State. They have submitted pumping and discharge records for activities through December 2012. See Chart 5 below for a summary chart of the City of North Platte's annual consumptive use compared to its permitted municipal transfer permit figures. The pumping records of the municipalities are reported in fiscal years (beginning August 1 and ending July 31); therefore FY12-13 is only half completed. Baseline amounts for cities with transfer permits are developed differently than cities without transfer permits. The amount of use described in the municipal transfer permit amounts become the baseline per the TPNRD's Rules and Regulations. Any deviation from that amount on an annual basis is represented in Chart 5.

2. The specifics of the pumping and discharge rates for the City of North Platte can be seen in Chart 5 below, the summary report is that the City pumps a considerable amount less than is allowed under its transfer permit, even in periods of record drought like this past year.

Chart 5. Municipal Pumping in the TPNRD for 2012. Pumping figures for 2012 compared to their baseline pumping for each Municipality.

Platte Basin Municipal Water Usage Summary								
	Brady	**Maxwell**	**North Patte**	**Hershey**	**Sutherland**	**Paxton**	**Ogallala**	**Brule**
Years figured in Baseline	2003-2006	2001-2006	2001-2006	2001-2006	2001-2006	2001-2006	2001-2006	2001-2006
Baseline (pump-discharge)(gal)	64,937,333	22,256,400	4,000,000,000	79,392,560	108,548,020	58,623,800	206,294,400	26,740,000
Baseline Population	371	317	23,817	694	1,184	559	4,751	339
Baseline (gal/capita/day)	479	192	193	313	251	285	119	217
Discharge: Stream, Lagoon	Lagoon	Lagoon	Stream	Lagoon	Lagoon	Stream	Stream	Lagoon
FY 11-12 Use (pump-discharge)	60,871,000	16,029,000	1,191,917,000	74,733,700	80,443,300	49,761,000	150,448,000	28,068,000
2012 Population	428	312	24,000	665	1,140	507	4,391	326
2012 (gal/capita/day)	389	141	136	308	193	269	94	236
FY 11-12 Difference (gal)	4,066,333	6,227,400	2,808,083,000	4,658,860	28,104,720	8,862,800	55,846,400	-1,328,000
Transfer Permit	No	No	Yes	No	No	No	No	No
# of Wells	2	2	19	4	3	3	4	2
City of North Platte's consumptive use per capita is not figured using their transfer permit amout but their actual pumped amount								

C. Reporting Data for Cities and Villages without a Municipal Transfer Permit

1. Each City and Village (Brady, Maxwell, Hershey, Sutherland, Paxton, Ogallala, and Brule) without a transfer permit has submitted their pumping and discharge records (where applicable) through December 2012, and those amounts have been entered into a database to determine the annual use and any deviation from the baseline amount on an annual basis. Refer to Chart 5 above to see the summary of their 2012 pumping compared to the baseline pumping.

2. The specifics of the pumping and discharge rates for the Villages and Cities of Brady, Maxwell, Hershey, Sutherland, Paxton, Ogallala, and Brule can be seen in Chart 5 above. The summary report shows the overall trend that the Villages and Cities pump a considerable amount less than their baseline use, even in periods of record drought like this past year. Important to note that 2012 was the driest year on record and a couple of the municipalities pumped more than their baseline for 2012, but they are still well below their overall pumping credit compared to their baseline.

VIII. INDUSTRIAL ACCOUNTING

A. Definitions

1. Industrial Water Well - Commercial Use - Golf Course Wells – The definitions under ground water Title 456 shall include, but not be limited to, maintenance of golf course turf.

a. Baseline – There are seven golf courses using 14 of the 60 registered commercial and/or industrial wells in the TPNRD, and those wells have been sorted out and

work initially started with these wells. Working with the representative individuals and understanding how they operate to determine the best way to report their baseline use has been a challenge, but a systematic approach has been developed. It has been determined that the total irrigated acres will be the baseline when working with the golf course wells in the TPNRD. Each golf course worked with NRD staff to delineate the acres that were historically irrigated between 2000 through 2006. The seven golf courses in the TPNRD have not expanded since prior to 2000; therefore, their baseline use of acres irrigated has not changed. On an annual basis, the TPNRD staff will work with the golf course staff to verify they have not increased consumptive use or depletions to the river. For details of these industrial (golf course) well baselines, refer to Table 7 below.

Table 7. Summary of the Golf Courses in the TPNRD (reported in acres)

Well ID	RegCD	S	T	R	Name	Baseline	2007	2008	2009	2010	2011	2012	
120150	G-101808	22	15	40	Bayside Investments	63.3	63.3	63.03	63.03	63.03	63.03	63.03	
120801	G-102429	22	15	40									
105232	G-090154	9	13	38	West Wind Golf Co	122.42	122.42	122.42	122.42	122.42	122.42	122.42	
37527	G-030632	9	13	38									
213439	G-160987	9	13	38									
213443	G-160986	9	13	38									*
213440	G-160985	9	13	38									
19122	G-013763	9	13	38									
213440	G-160985	9	13	38									
86288	G-077670	7	12	330	Lake Maloney Golf Assn	81.11	81.11	81.11	81.11	81.11	81.11	81.11	
172740	G-137635	18	13	35	Indian Meadows Golf Course	27.002	27.002	27.002	27.002	27.002	27.002	27.002	
86391	G-077773	10	13	30	City of NP/Iron Eagle Golf Course	50.93	50.93	50.93	50.93	50.93	50.93	50.93	
77464	G-069317	28	14	30	North Platte Country Club	99.78	99.78	99.78	99.78	99.78	99.78	99.78	
86415	G-077797	5	13	33	Sutherland Golf Association	55.63	55.63	55.63	55.63	55.63	55.63	55.63	*
	* denotes reported incorrectly in 2011												

b. Industrial Water Well - The definitions under ground water Title 456 states a well that provides ground water for manufacturing, commercial, and power generation purposes is an industrial water well.

1. Baseline – There are ten different owners of 43 industrial wells in the TPNRD left to establish baselines and annual uses. During January 2013, letters were sent out to owners requiring flow meters to be installed on all of their industrial wells so the industrial reporting requirements could be met. Reporting spreadsheets were developed for the industrial users so baseline uses and annual uses can be determined. For the most recent details for these industrial wells that provide ground water for manufacturing, commercial, and power generation purposes, refer to Table 8 below.

Well ID	RegCD	Sec	Twn	Rng	Baseline #	2012	2013	2014
118132	G-100408	5	13	37	TBD	Users were required to install flow meter to work with the NRD to report water usage		
199298	G-153331	22	13	40	TBD			
112692	G-096420	35	14	30	TBD			
95099	G-084422	4	11	27	TBD			
147802	G-120299	9	13	30	TBD			
160297	G-128598	16	11	31	TBD			
120783	G-102374	27	14	33	TBD			
120785	G-102375	27	14	33	TBD			
175520	G-139460	27	14	33	TBD			
48454	G-041198	19	13	33	TBD			
50421	G-043107	19	13	33	TBD			
50422	G-043108	19	13	33	TBD			
57122	G-049632	19	13	33	TBD			
72463	G-064509	21	13	30	TBD			
159710	G-128029	21	13	33	TBD			
159711	G-128030	21	13	33	TBD			
159714	G-128033	20	13	33	TBD			
159715	G-128034	16	13	33	TBD			
159716	G-128035	9	13	33	TBD			
159717	G-128036	9	13	33	TBD			
159718	G-128037	5	13	33	TBD			
159719	G-128038	18	13	33	TBD			
159720	G-128039	17	13	33	TBD			
159725	G-128044	13	13	34	TBD			
159727	G-128046	20	13	33	TBD			
159728	G-128047	16	13	33	TBD			
159729	G-128048	19	13	33	TBD			
159731	G-128050	29	13	33	TBD			
159732	G-128051	29	13	33	TBD			
159733	G-128052	21	13	33	TBD			
159734	G-128053	29	13	33	TBD			
159735	G-128054	29	13	33	TBD			
159736	G-128055	21	13	33	TBD			
159738	G-128057	21	13	33	TBD			
159740	G-128059	20	13	33	TBD			
159742	G-128061	21	13	33	TBD			
159743	G-128062	16	13	33	TBD			
159744	G-128063	20	13	33	TBD			
159745	G-128064	20	13	33	TBD			
159746	G-128065	20	13	33	TBD			
159747	G-128066	19	13	33	TBD			
105222	G-090127	1	14	38	TBD			
120573	G-102248	16	13	30	TBD			
126566	G-106443	2	13	30	TBD			
	TBD - To Be Determined at a later date							

Table 8. Summary of the Commercial/ Industrial Wells in the TPNRD

IX. FLOW METER DATA

A. Flow meters are not required in the TPNRD at this time.

X. OTHER WATER BANKING ACTIVITIES

A. The TPNRD, in conjunction with an Omaha company, has developed water banking software that is used for variances, transfers, and any other water banking purchases. Currently, the TPNRD does not have a District-wide stand alone water bank.

XI. RETIRED ACRES AND OTHER STREAM FLOW ACCRETION ACTIVITIES

A. A re-timing project in conjunction with the State of Nebraska occurred in the spring of 2011 and the fall of 2011 on the Western Irrigation District off the South Platte River and four irrigation Ditches (Suburban, Platte Valley, Keith-Lincoln, Paxton-Hershey) off the North Platte River. The results of these projects were very optimistic. Currently the TPNRD has signed memorandums of agreements with all the above irrigation districts, and is working with the State to obtain the necessary temporary surface water appropriations, so in times of excess flows these projects could be replicated.

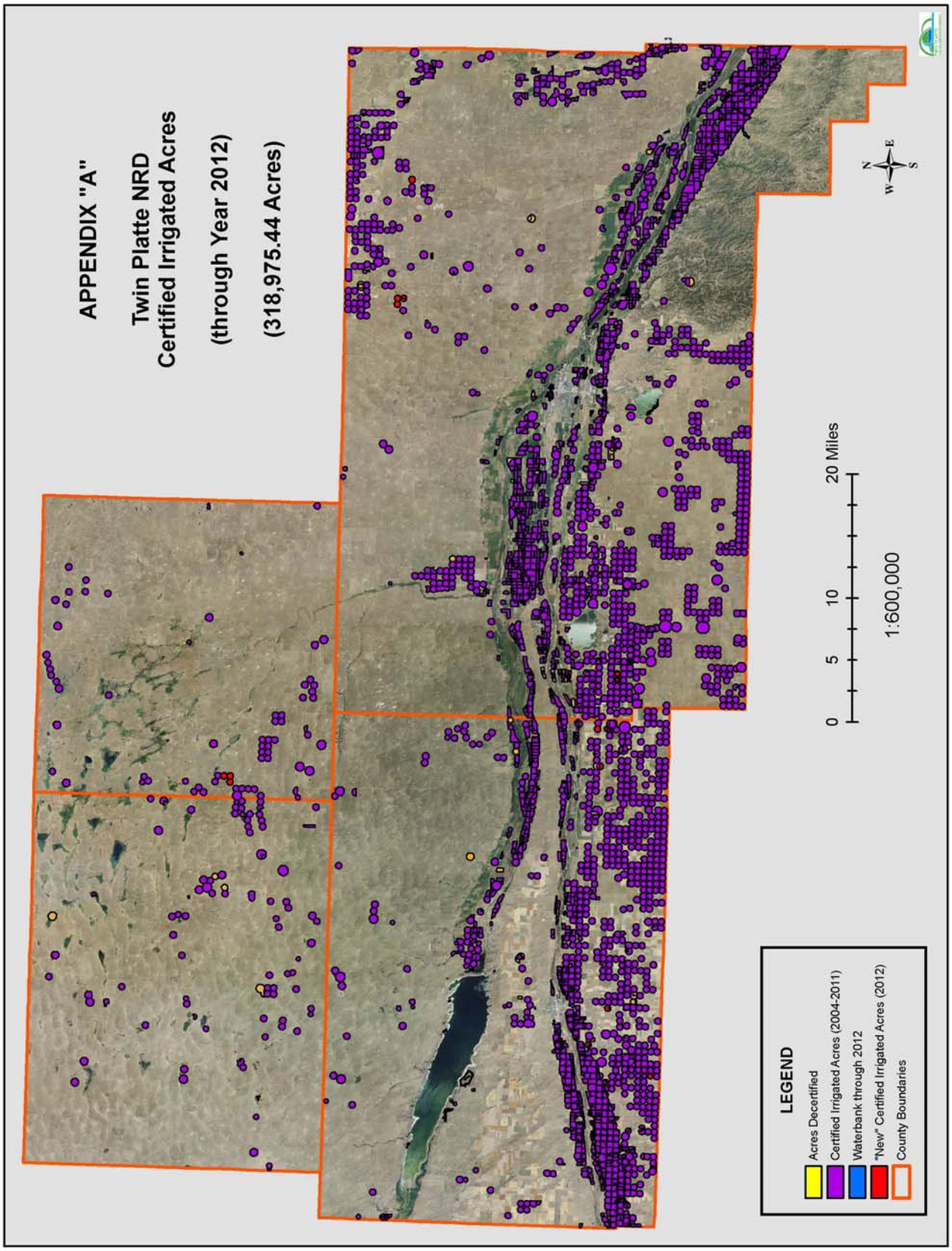
B. Nebraska Cooperative Republican Platte Enhancement Project (N-CORPE) – The TPNRD is partnering with NRDs in the Republican River Basin in Nebraska to develop the largest stream flow enhancement project of its kind in the state. The landmark conjunctive management project is considered the most cost-effective way to aid and protect the Platte and Republican Rivers, the agricultural economy across one of Nebraska's most productive agricultural regions, and taxpayers statewide by ensuring long-term compliance with Integrated Management Plans and interstate water agreements.

C. Additional other projects are being looked at for the most efficient use of time and money to get water back to the river in the quickest time possible, i.e. the J-2 Reservoir Project, converting CNPPID surface water users to ground water users, and working with surface water irrigation districts on different projects.

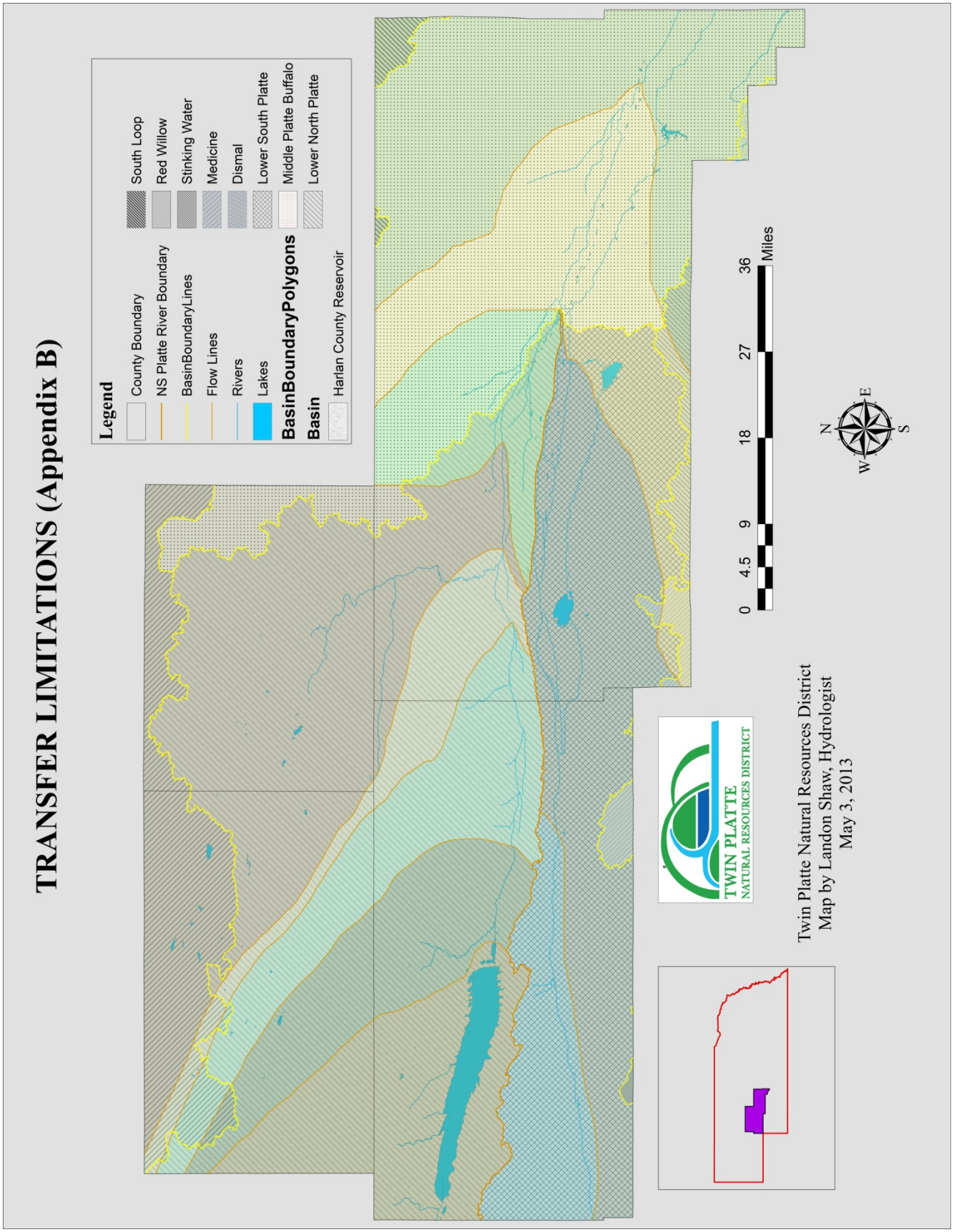
XII. GROUND WATER LEVELS

A. Tracking and reporting of ground water levels is not required in the IMP (Chapter 7.I.A.1 (a) and 7.I.A.2).

Appendix A. Certified Irrigated Acres through Year 2012



Appendix B. Transfer Limitations Map



Appendix C. Detailed Summary Tables for 2012 Transfers - New Acres 2012

Due to the size of the tables for the 2011 transfers, the full tables will only be included with the electronic version of this report.

NRD_PERMIT	TWN	RANGE	SEC	SUBSEC	ACRES
TP-TRANS-12.01	13	34	3	E	102.20
TP-TRANS-12.02	16	26	29	SE	15.40
TP-TRANS-12.03	13	37	15	NW	22.85
TP-TRANS-12.04	11	27	3	NW	5.50
TP-TRANS-12.05	13	31	07	SE	19.50
TP-TRANS-12.06	14	36	17	SW	3.15
TP-TRANS-12.07	16	29	27	NE	120.00
TP-TRANS-12.09	16	29	27	SE	66.42
TP-TRANS-12.11	12	27	30	NW	5.70
TP-TRANS-12.14	13	39	22	NE	13.85
TP-TRANS-12.15	13	39	22	NE	78.38
TP-TRANS-12.17	13	31	9	SW	21.00
TP-TRANS-12.18	13	35	21	W	85.60
TP-TRANS-12.20	14	31	18	N	5.05
TP-TRANS-12.21	13	39	22	NE	18.66
TP-TRANS-12.23	16	27	16	NE	10.00
TP-TRANS-12.25	14	34	20	SWSW	0.49
TP-TRANS-12.25	14	34	21	SWSE	0.52
TP-TRANS-12.25	14	34	19	SESE	0.71
TP-TRANS-12.26	13	34	27	SE	79.86
TP-TRANS-12.28	12	35	18	NE	9.25
TP-TRANS-12.30	13	34	27	SW	44.77
TP-TRANS-12.31	11	26	23	NW	1.10
TP-TRANS-12.32	13	34	35	SE	18.85
TP-TRANS-12.32	13	34	27	SW, SE	141.57
TP-TRANS-12.33	13	35	25	SE	32.60
TP-TRANS-12.34	13	35	24	SW	38.42
TP-TRANS-12.34	13	35	25	NW	11.58
TP-TRANS-12.36	13	35	24	NW	128.62
TP-TRANS-12.38	13	41	25	N	7.35
TP-TRANS-12.39	13	41	25	SW	7.05
TP-TRANS-12.41	14	36	20	SE	1.01
TP-TRANS-12.41	14	36	21	SE	1.15
TP-TRANS-12.41	14	36	24	NE	9.84
TP-TRANS-12.42	13	34	9	SW	2.00
TP-TRANS-12.43	13	34	35	SE	65.00
TP-TRANS-12.44	13	40	26	SW	2.80
TP-TRANS-12.45	15	33	34	SE	2.50
TP-TRANS-12.46	13	38	30	SE	100.30
TP-TRANS-12.46	13	37	4	NE	0.42
TP-TRANS-12.48	11	26	5	NESE	7.65
TP-TRANS-12.52	12	40	07	NW	11.44
TP-TRANS-12.52	12	40	06	SW	3.55
TP-TRANS-12.53	13	40	31	SE	1.35
TP-TRANS-12.56	13	34	35	SE	54.15
TP-TRANS-12.59	16	27	2	NW	139.15
TP-TRANS-12.62	12	39	18	NW	91.52
TP-TRANS-12.66	16	29	27	NW, SE	186.00
TP-TRANS-12.68	13	32	16	SE	45.97

Appendix C. Detailed Summary Tables for 2012 Transfers - Old Acres 2012

Due to the size of the tables for the 2011 transfers, the full tables will only be included with the electronic version of this report.

NRD_PERMIT	TOWN	RANGE	SEC	SUBSEC	ACRES
TP-TRANS-12.01	13	34	3	S	102.20
TP-TRANS-12.02	16	26	34	SW	10.90
TP-TRANS-12.02	16	26	29	SE	4.50
TP-TRANS-12.03	13	39	20	NE	3.81
TP-TRANS-12.03	13	39	17	SE	19.04
TP-TRANS-12.04	11	26	7	SE	4.38
TP-TRANS-12.04	11	27	3	NW	1.39
TP-TRANS-12.05	13	31	17	NW	8.07
TP-TRANS-12.05	13	31	07	NE	13.00
TP-TRANS-12.06	14	36	17	SW	3.15
TP-TRANS-12.07	15	32	19	NE	121.50
TP-TRANS-12.09	16	29	11	NE	67.62
TP-TRANS-12.11	12	27	30	SWNW, SENE	5.70
TP-TRANS-12.14	13	39	21	NE	11.18
TP-TRANS-12.14	13	39	22	NW	2.67
TP-TRANS-12.15	13	39	23	N	80.80
TP-TRANS-12.17	13	31	9	SW	23.00
TP-TRANS-12.18	13	35	21	NW	85.60
TP-TRANS-12.20	14	31	18	NE	1.12
TP-TRANS-12.20	14	31	17	NW	3.93
TP-TRANS-12.21	12	39	8	NW	27.85
TP-TRANS-12.23	16	27	15	SWSW	10.00
TP-TRANS-12.25	14	34	20	SW	1.72
TP-TRANS-12.26	13	31	27	NE	42.39
TP-TRANS-12.26	13	31	22	SE	37.47
TP-TRANS-12.28	12	35	18	NW	9.25
TP-TRANS-12.30	14	34	34	E	44.77
TP-TRANS-12.31	11	26	26	NW	0.50
TP-TRANS-12.31	11	26	23	NW	0.61
TP-TRANS-12.32	13	31	22	S	160.42
TP-TRANS-12.33	13	35	25	NE	32.60
TP-TRANS-12.34	13	35	25		50.00
TP-TRANS-12.36	13	35	25	NE	2.06
TP-TRANS-12.36	13	35	1	NW	9.27
TP-TRANS-12.36	14	34	27	S	92.67
TP-TRANS-12.36	14	34	26	SW	24.81
TP-TRANS-12.38	13	41	25		7.35
TP-TRANS-12.39	13	41	26	SW	7.05
TP-TRANS-12.41	14	36	17	S	12.00
TP-TRANS-12.42	13	34	8	ESE	2.00
TP-TRANS-12.43	13	31	22	SW	65.00
TP-TRANS-12.44	13	40	26	SW	2.80
TP-TRANS-12.45	15	33	34	E	2.50
TP-TRANS-12.46	13	37	3, 4	NW, N	100.72
TP-TRANS-12.48	11	26	5	SE	7.65
TP-TRANS-12.52	12	40	07	NW	14.48
TP-TRANS-12.52	12	40	06	SW	0.52
TP-TRANS-12.53	12	40	7	NW	1.66
TP-TRANS-12.56	14	38	23	N	54.15
TP-TRANS-12.59	17	38	4		291.64
TP-TRANS-12.62	12	39	18		10.01
TP-TRANS-12.62	12	39	7	NW, SW	47.39
TP-TRANS-12.62	12	40	12	NW, SW	12.76
TP-TRANS-12.62	12	39	6	SE	11.39
TP-TRANS-12.62	13	37	5	SW	9.98
TP-TRANS-12.66	15	36	31	NE	186.00
TP-TRANS-12.68	14	38	23	E	45.97

Appendix D. Detailed Tables for 2012 Well Permits.

NRD_PERMIT	TYPE	REG. NUMBER	TWN	RANGE	SEC	SUBSEC
TP-RP-12.01	Replacement	G-021001	14	36	17	SW
TP-RP-12.02	Replacement	G-011530	14	35	23	Sw
TP-RP-12.03	Replacement	G-048436	14	34	22	SW
TP-RP-12.04	Replacement	G-018643	11	26	1	NW
TP-RP-12.05	Replacement	G-044648	12	39	8	NE
TP-RP-12.06	Replacement	G-065046	12	40	9	SW
TP-RP-12.07	Replacement	G-031854	13	39	21	NE
TP-RP-12.08	Replacement	G-018324	13	39	12	SE
TP-NP-12.08	New well	G-162366	16	29	27	NE
TP-RP-12.09	Replacement	G-018985	12	26	36	SW
TP-RP-12.10	Replacement	G-021021	13	40	31	SE
TP-NP-12.10	New well	G-162367	16	29	27	SE
TP-RP-12.11	Replacement	G-005757	12	28	24	SW
TP-RP-12.12	Replacement	G-043588	13	29	26	SE
TP-RP-12.13	Replacement	G-021583	13	34	3	NE
TP-NP-12.13	New well	G-163764	13	39	22	NE
TP-RP-12.14	Replacement	G-063209	19	33	2	NW
TP-RP-12.15	Replacement	G-000715	13	26	35	NE
TP-RP-12.16	Replacement	G-125796	13	29	23	SW
TP-NP-12.16	New well	G-162945	12	28	5	NE
TP-RP-12.17	Replacement	G-049110	13	28	30	NE
TP-RP-12.18	Replacement	G-018162	13	31	12	NE
TP-RP-12.19	Replacement	G-024246	12	40	17	SE
TP-RP-12.20	Replacement	G-017449	11	26	14	SW
TP-RP-12.21	Replacement	A-007741	12	26	35	SW
TP-RP-12.22	Replacement	A-007748	12	26	35	SE
TP-RP-12.23	Replacement	G-067187	12	40	10	SE
TP-RP-12.24	Replacement	G-042145	13	35	35	NW
TP-NP-12.24	New well	G-162357	13	38	30	SE
TP-RP-12.25	Replacement	G-023955	13	39	3	SW
TP-NP-12.27	New well	G-162444	13	34	27	SE
TP-NP-12.29	New well	G-162454	13	34	27	SW
TP-NP-12.35	New well	G-162445	13	34	35	SE
TP-NP-12.37	New well	G-162653	13	35	24	NW
TP-NP-12.47	New well	G-164180	12	34	13	NW
TP-NP-12.50	New well	G-165641	13	35	17	SW
TP-DW-12.51	De-watering	NDY	14	31	29	SESE
TP-NP-12.54	New well	G-163921	16	29	27	NW
TP-NP-12.55	New well	G-164779	12	40	12	NE
TP-NP-12.57	New well	G-163887	16	27	32	NW
TP-NP-12.60	New well	NDY	16	27	3	NW
TP-NP-12.63	New well	G-164224	12	39	18	NW
TP-SG-12.61	Supplemental	NDY	13	39	22	NE
TP-SG-12.67	Supplemental	NDY	13	39	9	SE
TP-NP-12.69	New well	NDY	13	32	16	SE
NDY - Not Drilled Yet						