

GMD3 Change Review

File No(s): FO 33 & FO 35.

DWR office: HQ.

App filed to change: PU and PD for Add Well (FO33) .

Is Landowner(s) correct in WRIS: Phillip E & Verna M Ochs TR.

If NO, is documentation included?

Is Water Use Correspondent correct in WRIS? Yes.

If NO, is documentation included?

Regulation(s) Reviewed: KAR 5-5-11(PU), KAR 5-5-16(AddWell) & KAR 5-23-3(Distance and spacing)

Point of diversion ID No(s) 02 being changed.

	ft. North	ft. West				
Authorized PD						
Proposed PD						
Difference	0	0				
a2 + b2 = c2	0	0	0			

GPS for proposed PD: Lat: __ Long: __.

Is proposed PD stacking on existing WRs? Part of AF from current FO33 will be stacked on current FO35.

Is Proposed PU overlapping existing WRs? Will create a complete overlap on both water rights.

Land Owner(s) notified: __.

Name __.

Name __.

Address __.

Address __.

Zip __.

Zip __.

Neighboring certified well(s) notified: __.

Name __.

Name __.

Address __.

Address __.

Zip __.

Zip __.

Domestic well(s) notified: __.

Name __.

Name __.

Address __.

Address __.

Zip __.

Zip __.

Base Acres: __.

Perfected Acres: __.

Irr. Return-Flow __%

Currently has incomplete PU overlap, these applications will create a complete overlap and not increase base.

FO35 has history of overpumping and the change on FO33 for additional well will move authority over to stack and balance pumping from the wells.

(Base acres X NIR80%) / .85 = AF to keep and split.

(236 acres X 1.31') / .85 = 363.7AF => reduction of 108.3AF total.

GMD3 Change Review

200AF @ 800gpm remains at current well under FO33.

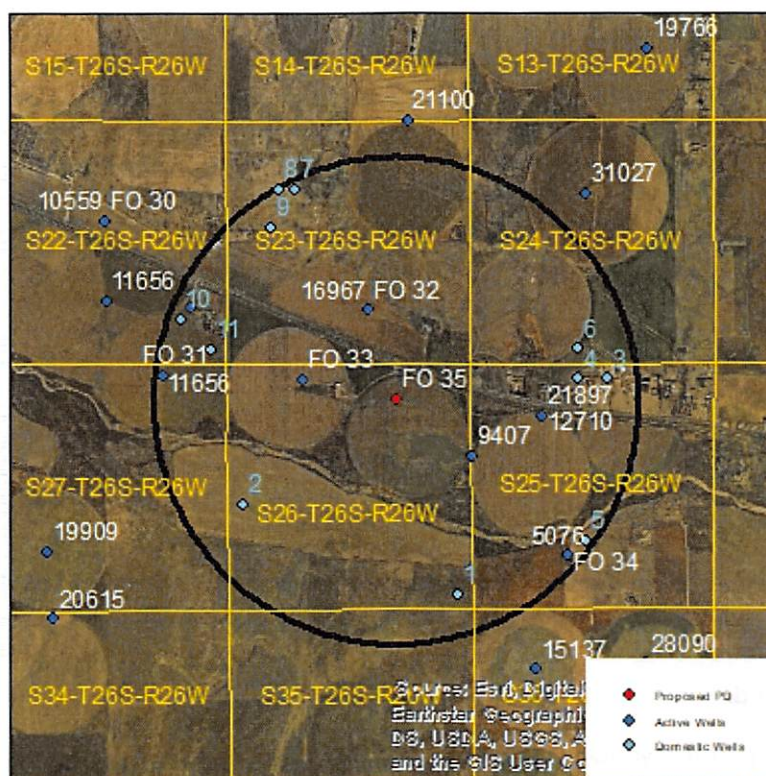
163.7AF @ 700gpm stacked on FO35 for total of 203.7AF

Is a waiver needed: Consumptive use applied for additional well. PU change falls within guidelines. The moving of authority is less than half mile and current minimum spacing to neighboring wells appears met.

Recommendation: .

Evaluation of proposed additional well for Water Right No FO 33

Proposed: Move 163.7 AF at 700 gpm from the well currently authorized under FO 33 to the well currently authorized under FO 35 using the additional well rule. The well currently authorized under FO 33 will reduce its current authority from 472 AF at 1500 gpm to 200 AF at 800 gpm. The well currently authorized under FO 35 will gain authority from 40 AF at 900 gpm to 203.7 AF at 1600 gpm.



Wells within 1 mile: 9407, FO 34 & 5076, 12710 & 21897, FO 32 & 16967, FO 31 & 11656, 38122, and 11 domestic wells. Domestic wells are identified by number, from 1 to 11 on the above map.

The saturated thickness at the proposed well location is estimated to be 142 ft, based upon water table elevation obtained from a monitoring well in section 36-26-26 and the driller's log at FO 33. For saturated thickness between 125 ft and 150 ft, the maximum allowable 50 year Theis drawdown to neighboring critical wells is 3.0 ft.

50 year Theis Analysis: The following values were used to run the analysis:

$S = 0.2365$, $T = 6888 \text{ ft}^2/\text{day}$, $tp_{\text{current}}(\text{FO 33}) = 29 \text{ days}$ (based upon observed rate and reported quantity), $Q_{\text{current}}(\text{FO 33}) = 1500 \text{ gpm}$ (Authorize rate. Flow test showed well can pump greater than authorized.), $tp_{\text{proposed}}(\text{FO 33}) = 57 \text{ days}$, $Q_{\text{proposed}}(\text{FO 33}) = 800 \text{ gpm}$, $Q_{\text{current}}(\text{FO 35}) = 650 \text{ gpm}$ (based upon 2018 DWR inspection), $tp_{\text{current}}(\text{FO 35}) = 14 \text{ days}$ (based upon reported quantity and observed rate), $Q_{\text{proposed}}(\text{FO 35}) = 1600 \text{ gpm}$, $tp_{\text{proposed}}(\text{FO 35}) = 29 \text{ days}$.

Theis drawdown calculations are as follows:

9407: Current drawdown = 1.57 ft
Proposed drawdown = 3.32 ft
Net drawdown = **1.8 ft**

FO 34 & 5076: Current drawdown = 1.09 ft
Proposed drawdown = 2.04 ft
Net drawdown = **0.9 ft**

12710 & 21897: Current drawdown = 1.31 ft
Proposed drawdown = 2.56 ft
Net drawdown = **1.2 ft**

FO 32 & 16967: Current drawdown = 2.41 ft
Proposed drawdown = 4.21 ft
Net drawdown = **1.8 ft**

FO 31 & 11656: Current drawdown = 1.67 ft
Proposed drawdown = 2.63 ft
Net drawdown = **1.0 ft**

38122: Current drawdown = 1.76 ft
Proposed drawdown = 2.74 ft
Net drawdown = **1.0 ft**

Domestic 1: Current drawdown = 1.21 ft
Proposed drawdown = 2.25 ft
Net drawdown = **1.0 ft**

Domestic 2: Current drawdown = 1.75 ft
Proposed drawdown = 2.87 ft
Net drawdown = **1.1 ft**

Domestic 3: Current drawdown = 1.12 ft
Proposed drawdown = 2.12 ft
Net drawdown = **1.0 ft**

Domestic 4: Current drawdown = 1.20 ft

Proposed drawdown = 2.30 ft

Net drawdown = **1.1 ft**

Domestic 5: Current drawdown = 1.08 ft

Proposed drawdown = 2.01 ft

Net drawdown = **0.9 ft**

Domestic 6: Current drawdown = 1.19 ft

Proposed drawdown = 2.27 ft

Net drawdown = **1.1 ft**

Domestic 7: Current drawdown = 1.43 ft

Proposed drawdown = 2.39 ft

Net drawdown = **1.0 ft**

Domestic 8: Current drawdown = 1.42 ft

Proposed drawdown = 2.36 ft

Net drawdown = **1.0 ft**

Domestic 9: Current drawdown = 1.60 ft

Proposed drawdown = 2.61 ft

Net drawdown = **1.0 ft**

Domestic 10: Current drawdown = 1.71 ft

Proposed drawdown = 2.67 ft

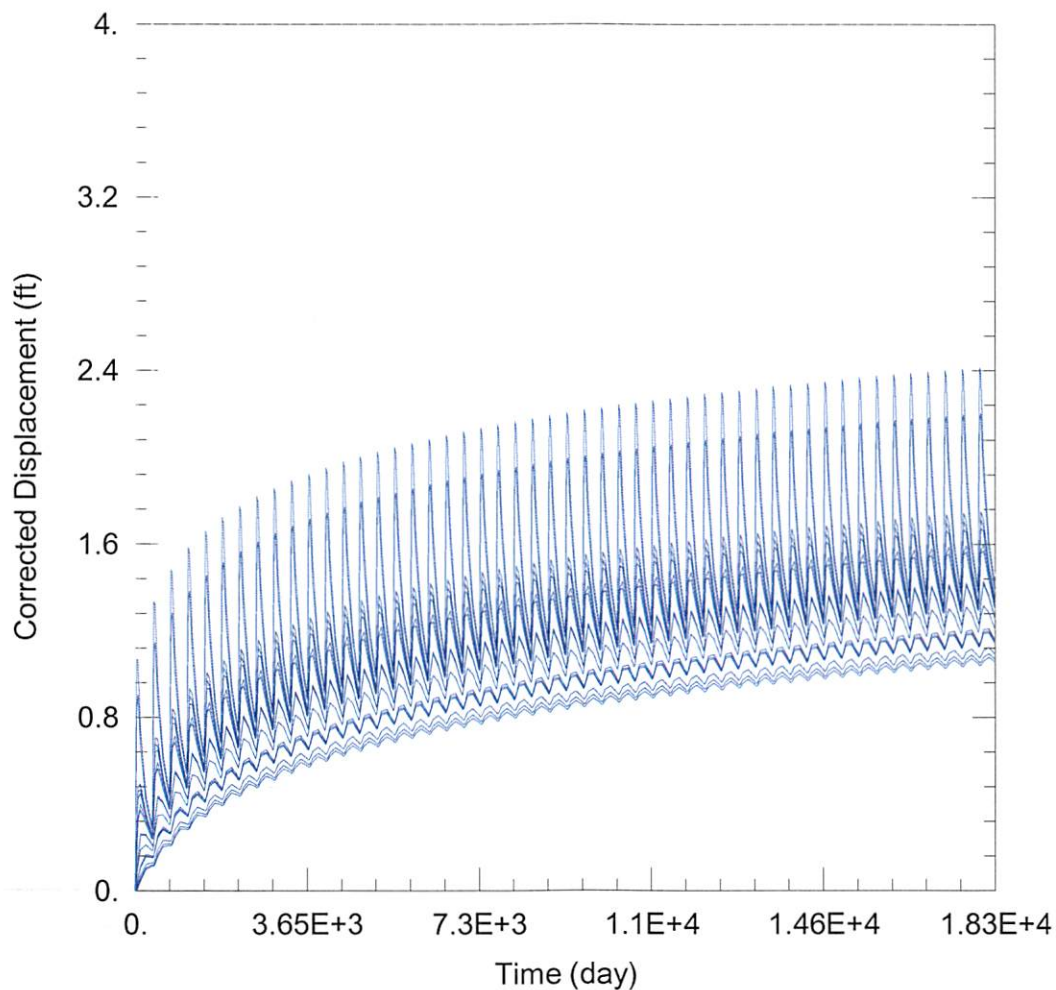
Net drawdown = **1.0 ft**

Domestic 11: Current drawdown = 2.20 ft

Proposed drawdown = 3.25 ft

Net drawdown = **1.0 ft**

No well effects exceed the drawdown allowance of 3.0 ft, so no further evaluation is necessary.



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2019_moves\FO33_FO35\FO33_FO35 Current.aqt

Date: 04/25/19

Time: 11:55:50

PROJECT INFORMATION

Company: GMD 3

Project: FO33_FO35

Location: Ford County

Test Well: FO33_FO35

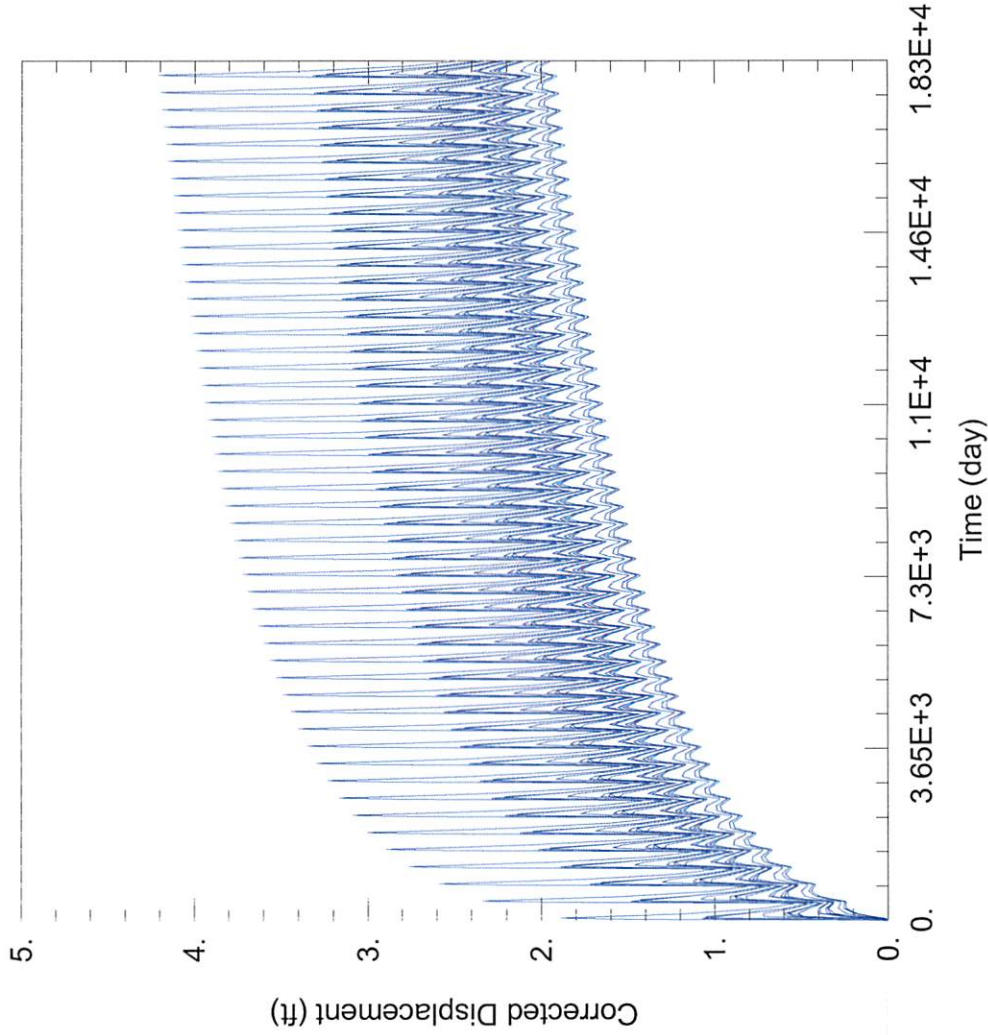
WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
	191556	324784
	193579	324346

Observation Wells

Well Name	X (ft)	Y (ft)
□	191556	324784
□	193579	324346
□ 9407	195242	323140
□ FO 34_5076	197305	320999
□ 12710_21897	196746	324022
□ FO 32_16967	192991	326292
□ FO 31_11656	188510	324882
□ Domestic 1	194939	320151
□ Domestic 2	190256	322114
□ Domestic 3	198191	324813
□ Domestic 4	197527	324809
□ Domestic 5	197714	321335
□ Domestic 6	197524	325470



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2019_moves\FO33_FO35\FO33_FO35_Proposed.aqt

Date: 04/25/19

Time: 11:55:32

PROJECT INFORMATION

Company: GMD 3
Project: FO33_FO35
Location: Ford County
Test Well: FO33_FO35

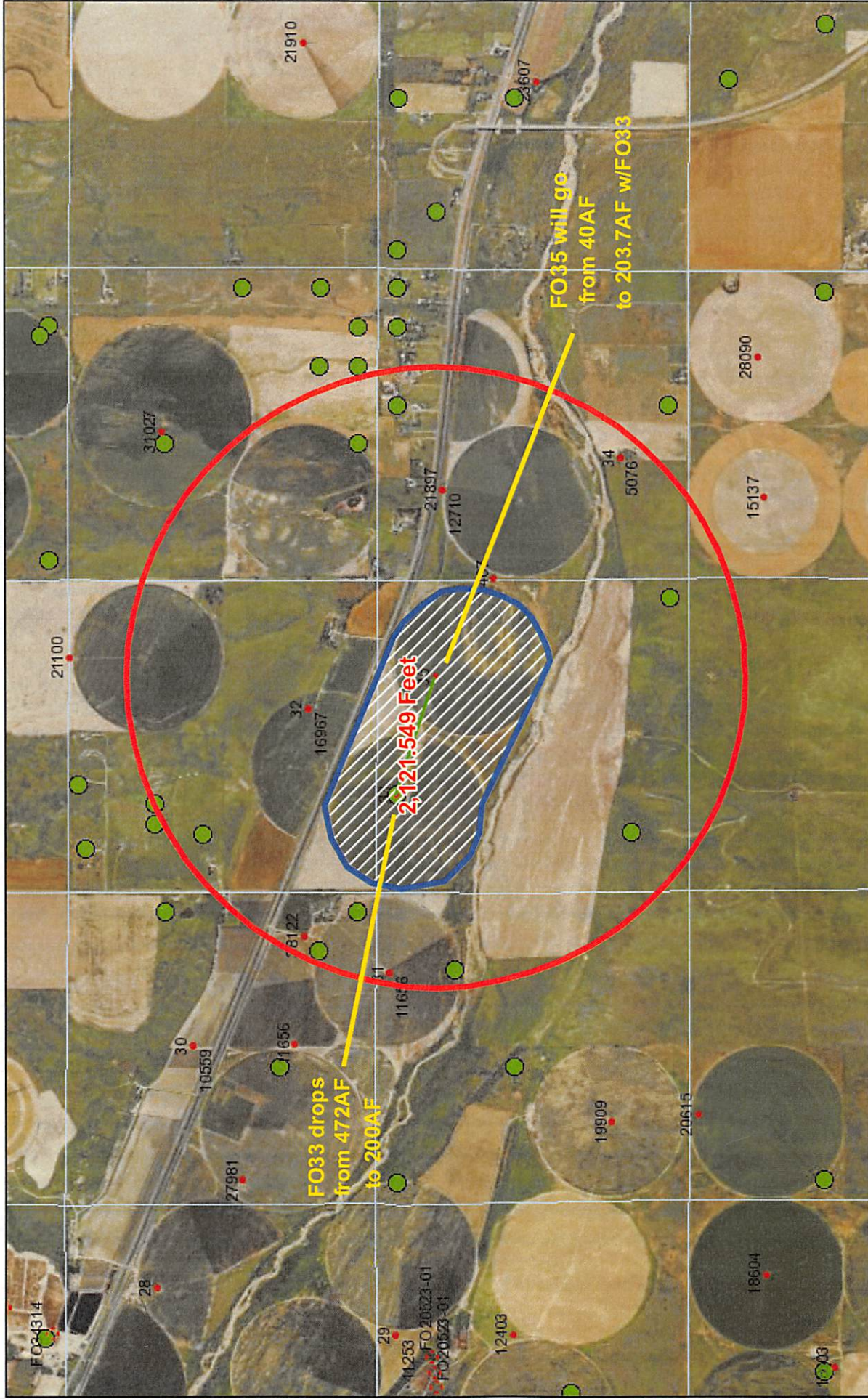
WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
	191556	324784
	193579	324346

Observation Wells

Well Name	X (ft)	Y (ft)
<input type="checkbox"/>	191556	324784
<input type="checkbox"/>	193579	324346
<input type="checkbox"/> 9407	195242	323140
<input type="checkbox"/> FO 34_5076	197305	320999
<input type="checkbox"/> 12710_21897	196746	324022
<input type="checkbox"/> FO 32_16967	192991	326292
<input type="checkbox"/> FO 31_11656	188510	324882
<input type="checkbox"/> Domestic 1	194939	320151
<input type="checkbox"/> Domestic 2	190256	322114
<input type="checkbox"/> Domestic 3	198191	324813
<input type="checkbox"/> Domestic 4	197527	324809
<input type="checkbox"/> Domestic 5	197714	321335
<input type="checkbox"/> Domestic 6	197524	325470



April 23, 2019
13:46 PM

DISCLAIMER: This map is not intended for conveyances, nor is it a legal survey. The information is presented on a best-efforts basis, and should not be relied upon for making financial, survey, legal or other commitments.

Wells	+	CON	+	FPR	▲	MUN	⚡	THX
?	Other	⊠	DEW	⊕	HYD	?	REC	Empty
•	IRR	▲	DOM	★	IND	⊗	STK	WWC5 WELLS GMD3

<input type="checkbox"/>	Sections
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0	1,650	3,300	6,600 ft
0	500	1,000	2,000 m

AMOUNT STATISTICS REPORT FOR POINTS OF DIVERSION UNDER V FO 35 00

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AMOUNT STATISTICS REPORT FOR POINTS OF DIVERSION UNDER V FO 35 00 IRR

Water Right and Points of Diversion Within 1.00 miles of point defined as:

-SE-NW-NE of Section 26 T 26S R 26W

GROUNDWATER ONLY

1600 ft would cover all spacing

File Number	Use	ST	SR	Dist (ft)	Q4	Q3	Q2	Q1	FeetN	FeetW	Sec	Twp	Rng	ID	Batt	Auth_Quan	Add_Quan	Unit	
A_ 5076	00	IRR	NK	G	4885	--	--	--	1150	3200	25	26	26W	1		40.00	40.00	AF	
A_ 9407	00	IRR	NK	G	1957	--	SW	SW	NW	3300	5230	25	26	26W	2	160	246.00	246.00	AF 1600
A_ 11656	00	IRR	NK	G	5099	--	CN	NE	5105	1400	27	26	26W	2		162.00	220	162.00	AF 1600
A_ 12710	00	IRR	NK	G	3196	--	SW	NE	NW	4175	3700	25	26	26W	3		141.00	271.15	AF 1600
A_ 16967	00	IRR	NK	G	2237	--	NW	SW	SE	1180	2200	23	26	26W	1		132.00	142.1	AF 1300
A_ 21897	00	IRR	NK	G	3196	--	SW	NE	NW	4175	3700	25	26	26W	3		130.00	130.00	AF
A_ 38122	00	IRR	NK	G	4937	--	NW	SE	SE	1236	743	22	26	26W	5		16.00	16.00	AF
VFO 31	00	IRR	AA	G	5099	--	CN	NE	5105	1400	27	26	26W	2		60.00	60.00	AF	
VFO 32	00	IRR	AA	G	2237	--	NW	SW	SE	1180	2200	23	26	26W	1		12.00	12.00	AF
VFO 33	00	IRR	AA	G	2101	--	NW	NE	NW	-----	-----	26	26	26W	2		472.00	200.45	472.00 AF
VFO 34	00	IRR	AA	G	4885	--	--	--	--	1150	3200	25	26	26W	1		80.00	80.00	AF
VFO 35	00	IRR	AA	G	0	--	SE	NW	NE	-----	-----	26	26	26W	1		40.00	40.00	AF
																	203.7 AF		

Total Net Quantities Authorized:	Direct	Storage
Total Requested Amount (AF) =	.00	.00
Total Permitted Amount (AF) =	.00	.00
Total Inspected Amount (AF) =	.00	.00
Total Pro_Cert Amount (AF) =	.00	.00
Total Certified Amount (AF) =	855.00	.00
Total Vested Amount (AF) =	664.00	.00
TOTAL AMOUNT (AF) =	1519.00	.00

An * after the source of supply indicates a pending application for change under the file number.

An * after the ID indicates a 15 AF exemption was granted under the file number.

A "G" in the Batt column indicates the GEO CTR of a battery. A "B" indicates a well in the battery.

The number in the Batt column is the number of wells in the battery.

Water Rights and Points of Diversion Within 1.00 miles of point defined as:

-SE-NW-NE of Section 26 T 26S R 26W

GROUNDWATER ONLY

WATER USE CORRESPONDENTS:

File Number Use ST SR

A_ 5076 00 IRR NK G

> RICK L KONECNY REV TR

>

> 10652 MARSHALL RD

> DODGE CITY KS 67801

A_ 9407 00 IRR NK G

> PHILLIP E & VERNA M OCHS TR

>

> 10509 W 142ND ST

> OVERLAND PARK KS 66221

A__ 11656 00 IRR NK G

> MARK D FISCHER

>

> PO BOX 131

> WRIGHT KS 67882

>-----

A__ 12710 00 IRR NK G

> KANS LLC

> TOM L & KAY A HERRMANN

> 190 MONTCLAIR DR

> SHERMAN TX 75092

>-----

A__ 16967 00 IRR NK G

> CHARLENE SCHULTE

>

> 12221 EAGLE RD

> SPEARVILLE KS 67876

>-----

A__ 21897 00 IRR NK G

> KANS LLC

> TOM L & KAY A HERRMANN

> 190 MONTCLAIR DR

> SHERMAN TX 75092

>-----

A__ 38122 00 IRR NK G

> MARK D FISCHER

>

> PO BOX 131

> WRIGHT KS 67882

>-----

VFO 31 00 IRR AA G

> MARK D FISCHER

>

> PO BOX 131

> WRIGHT KS 67882

>-----

VFO 32 00 IRR AA G

> CHARLENE SCHULTE

>

> 12221 EAGLE RD

> SPEARVILLE KS 67876

>-----

VFO 33 00 IRR AA G

> PHILLIP E & VERNA M OCHS TR

>

> 10509 W 142ND ST

> OVERLAND PARK KS 66221

>-----

VFO 34 00 IRR AA G

> RICK L KONECNY REV TR

>

> 10652 MARSHALL RD

> DODGE CITY KS 67801

>-----

VFO 35 00 IRR AA G

> PHILLIP E & VERNA M OCHS TR

>

> 10509 W 142ND ST

> OVERLAND PARK KS 66221

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