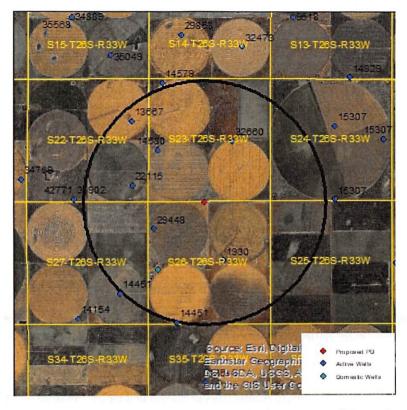
Evaluation of proposed move for Water Right No 29448

Proposed: Move water right no. 29448 a distance of 2,503 ft to the northeast.



Wells within 1 mile: 1930, 22115, 13667, 14580, 32660, and a domestic well in section 26-26-33.

The saturated thickness at the proposed well location is estimated to be 272 ft, based upon the GMD3 model. For saturated thickness greater than 200 ft, the drawdown allowance is 4.0 ft.

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

S = 0.1812, T = 23669 ft²/day, tp_{current} = 136 days (based upon average use and observed rate), $Q_{current} = 300$ gpm (based upon conversation with the applicant), tp_{proposed} = 68 days, $Q_{proposed} = 865$ gpm

Theis drawdowns were calculated as follows:

1930: Drawdown from current location = 0.57ft

Drawdown from proposed location = 1.13 ft

Net drawdown = 0.6 ft

22115: Drawdown from current location = 0.74 ft

Drawdown from proposed location = 0.96 ft

Net drawdown = 0.2 ft

13667: Drawdown from current location = 0.47 ft

Drawdown from proposed location = 0.73 ft

Net drawdown = **0.3** ft

14580: Drawdown from current location = 0.57 ft

Drawdown from proposed location = 1.01 ft

Net drawdown = **0.4** ft

32660: Drawdown from current location = 0.45 ft

Drawdown from proposed location = 1.05 ft

Net drawdown = 0.6 ft

Domestic 26-26-33: Drawdown from current location = 0.80 ft

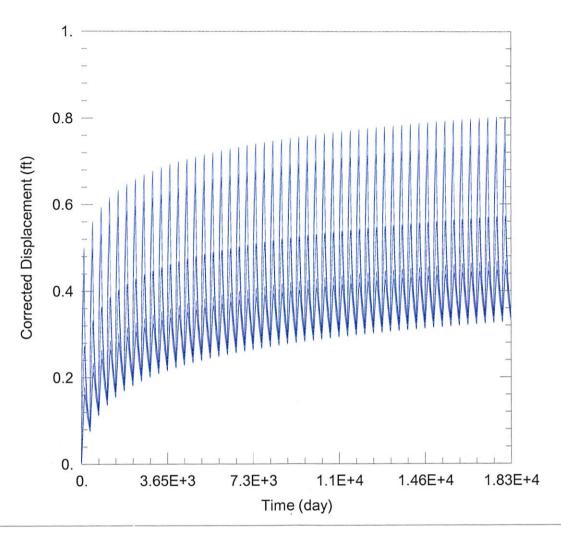
Drawdown from proposed location = 0.89 ft

Net drawdown = **0.1** ft

Net drawdown does not exceed the drawdown allowance of 4.0 ft for any wells within 1 mile of the proposed location. Therefore, critical well analysis is not necessary.

Conclusion:

Based upon information from the GMD3 model, this proposal will cause minimal effects on neighboring wells, and is unlikely to create an impairment. GMD3 staff recommends approval of the application.



WELL TEST ANALYSIS

Data Set: C:\Users\jasonn\Desktop\2020\Applications\29448_Hands\29448 Current.aqt

Time: 16:48:19 Date: 03/31/20

PROJECT INFORMATION

Company: GMD 3 Project: 29448

Location: Finney County

Test Well: 29448

WELL DATA

Pumping vveils			
Well Name	X (ft)	Y (ft)	
29448 ID 3	-31006	323197	

Observation Wells				
Well Name	X (ft)	Y (ft)		
0	-31006	323197		
□ 1930 ID 5	-27929	321816		
□ 22115 ID 5	-31920	325087		
□ 13667 ID 4	-31937	327865		
□ 14580 ID 5	-30809	326604		
□ 32660 ID 4	-27558	326988		
 Domestic 26-26-33 	-30806	321426		

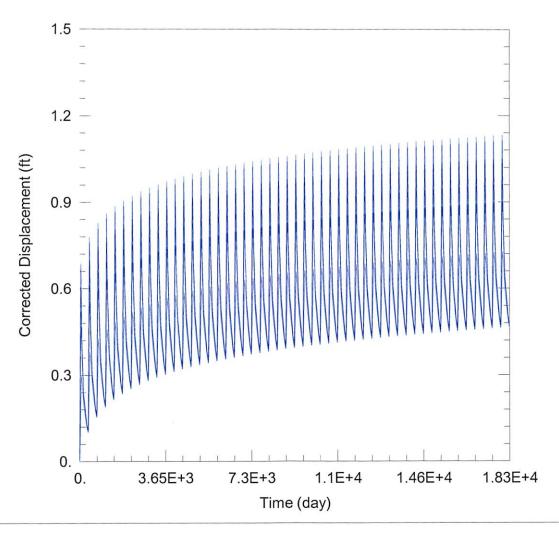
SOLUTION

Solution Method: Theis

Aquifer Model: Unconfined

 $= 2.367E+4 \text{ ft}^2/\text{day}$

S = 0.1812= 272. ftKz/Kr = 1. b



WELL TEST ANALYSIS

Data Set: C:\Users\jasonn\Desktop\2020\Applications\29448_Hands\29448 Proposed.aqt

Date: 03/31/20 Time: 16:48:40

PROJECT INFORMATION

Company: GMD 3 Project: 29448

Location: Finney County

Test Well: 29448

WELL DATA

Pumping Wells			
Well Name	X (ft)	Y (ft)	
29448 ID 3	-28779	324340	

Well Name	X (ft)	Y (ft)
0	-28779	324340
□ 1930 ID 5	-27929	321816
- 22115 ID 5	-31920	325087
□ 13667 ID 4	-31937	327865
□ 14580 ID 5	-30809	326604
□ 32660 ID 4	-27558	326988
 Domestic 26-26-33 	-30806	321426

Observation Wells

SOLUTION

Aquifer Model: Unconfined

 $T = 2.367E + 4 ft^2/day$

Kz/Kr = 1.

Solution Method: Theis

S = 0.1812b = 272. ft

GMD3 Change Review

DWR office: GMD3/DWR.

File No(s).: 29448.

App filed to change: PD. Is Landowner(s) correct in WRIS: <u>SGC Land LLC (Hands)</u>. If NO, is documentation included? Is Water Use Correspondent correct in WRIS? __. If NO, is documentation included? Regulation(s) Reviewed: KAR 5-23-3 Point of diversion ID No(s) 03 being changed. ft. North ft. West Authorized PD 4100 Sect 26-26-33 5200 Proposed PD 5227 2966 Difference -1127 n 2234 e a2 + b2 = c22502.176 foot move NE 1270129 4990756 GPS for proposed PD: Lat: 37.76572 Long: -100.89942. Is proposed PD stacking on existing WRs? NO. Is Proposed PU overlapping existing WRs? No Change. Neighboring certified well(s) notified: . Tri-Stone Farms Inc. (13667 WUC). Address 10925 S Sandhill RD . Zip Garden City, KS 67846. Name Glenn C Voth (1930). Address 2230 E Lear RD. Garden City, KS 67846. Zip Base Acres: __. Perfected Acres: __. Irr. Return-Flow ____% Is a waiver needed: Move less than half mile and minimum spacing is met to neighboring wells. Recommendation: . .