

MEMO

TO: 35-2924
FROM: Cherie Palmer
DATE: September 22, 2014
RE: WSB Leased Volume/Historic Use

The water right backfile contained some data regarding the historic use under this right. I have attached the pertinent information to this memo.

It appears that this right was used year round for dust control. The consumptiveness of those uses can be likened to irrigation; water trucks spray water onto a surface with a portion being lost to evaporation and the other portion seeping back into the ground.

For the purpose of renting this water right for irrigation uses please use the following proportions:

1.11 cfs
241.0 af
60.3 acres

Mark Taylor of Rhodehouse Construction brought in this pump info on the well for Lease A/cim A35-2924 for Keum Rhodehouse.

The new pump is 30hp & replaces a 20-25hp historic pump in a well that is 806' deep. Mark estimates the pump is set at 200'. The old pump & new pump put out water via open discharge to fill water trucks.

Use is for dust control, wash sand & wash gravel. Use dates are as follows:

March to Nov.

a/ 8am - 6pm Mon-Friday, 1/2 day on Sat.

Dec. - Feb

a/ 9am - 4pm Mon-Friday

Pump theoretical

$$Q = \frac{8.8 \times 70\% \text{ eff} \times 25\text{hp}}{75' \text{ lift} + (2.31 \times 5\text{psi})}$$
$$Q = \frac{154}{86.55} = 1.78\text{cfs}$$

Well log states 37' static water level