

A25-04162 Summary 8/23/03

- 1) Ownership: Correct. Address on paper claim is correct but recent IDWR correspondence has gone to corporate HQ only. Claimant filled out a address to add local address to database. I gave this to Jennifer C.
- 2) Priority date: Affidavit from Cushman Drilling establishes June 30, 1952. Affidavit from Walter Gay establishes 500,000 - 800,000 gallons per day 12/31/1959. I propose 6/30/1952.
- 3) POB and POD: Appear to be correct.
GPS 657, ⁴⁵⁵445 E 264,961 N
GPS point 4162.
- 4) CFS. Claimed rate is 24-hr average rate. Theoretical calc. Supports ^{1.85}1.57 cfs. I propose inviting claimant to amend to ^{1.85}1.57 cfs & adding condition limiting daily volume to historical volume @ current claimed rate.

Documentation supports
claimed rate as 24-hr average

$(0.86 \times 1.9835 = 1.71 \text{ acre feet/day})$

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5) Annual Volume.

Claimed volume is based on claimed diversion rate for 331 days. This is reasonable per. Mr. Gay's affidavit. Note current usage per attached documents max $\approx 4,400,000$ gals/month

≈ 162 acrefeet/yr. I suggest conferring w/ Ernie about whether to recommend historical or current.

6) Documentation. Claimant provided additional documentation that may be useful to substantiate historical volumes if needed. This includes CH2M Hill Sewer study report / documentation on historical practices / water requirements.

7) Photos: Flowmeter, well motor, motor nameplate (may be out of focus - cinder brick wall limited camera distance), pump nameplate.

Dwight A. Contor

A25-04162 Theoretical calculation

Static ¹²⁶ 156 ft Andrews Well Drilling
Drawdown 4 ft estimate
Friction 15 ft estimate
Discharge 22 ft $(8 + 11)/2 \times 2.31$

$$TDH = \overset{167}{197} \text{ ft}$$

$$\text{Water HP} = \text{Motor HP} \times \text{eff.} = 50 \times 0.70 = 35$$

$$Q = \frac{\text{Water HP} \times 3960}{TDH} = \frac{(35)(3960)}{197} = \frac{703.6 \text{ gpm}}{830}$$

$$\frac{\overset{830}{703.6} \text{ gpm}}{448.83} = \frac{1.57 \text{ g/s.}}{1.85 \text{ ft}}$$

A25-04162 Field Notes 8/22/03

1) Operations Review - Kim Anselmo - Plant Mgr

Mark Wynn is Sanford Comptroller - Cedar Rapids
1-800-582-8731 - (See 1963 & 1964
production values)

2) Basic ^{process} flow of plant currently -

- Potatoes come in partially processed - three forms
liquid slurry

wet cake 45% moisture

dry form 12% moisture

This is starch recovery from food processors
Current capacity ~ 4 1/2 million # / month

- Screen (raw material cleaning)

- Concentrating tank: dewater

- Reactors - add clean water & chemical modification

- Open tanks - settle out water, add fresh water.
do this twice

- Screen & dryer feed tanks, drum filter.

- Into dryer @ 42% moisture - comes out 16% moisture

- Package & ship.

Because of evaporation associated w/ dryer,
sewer records will not show total water use.

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No city connection for fresh-water supply.

Motor - us motors 50 hp

Pump - Pump Tech AT-104753-0881

GPS 657,450 E waypoint 4162
264,961 N

GPS reading 5 meters west of well
corrected Easting 657,445

Discharge of ^{well} pump is into gravity tank. Per
plant maintenance supervisor, limit switch that
controls well pump is on at 8psi off at 11psi.

Photos

- 1) Magnetic flow meter
- 2) Well pump / motor
- 3) Well motor nameplate. May be out of
focus - cinder block wall prevented
taking photo from proper distance
- 4) Pump nameplate.

Penford Products Contact log

8/19/03 ~~524~~ 522 3570 8:58

Ms. Anselmo -

Friday - 22nd - 9 AM

1088 W Sunny side -

has flow meter on well in 2000 -

CH₂M Hill study documents
historical usage -

Has amended claims? yes ✓