Double installation, low lift pumps - supply from drain ditch, Windsor Lake - on south side of road 1 mile east of Windsor - old road to Gageley. Fair prospects for study.
Key Numbers on Top. Map
1  S. R. Lowe
2  W. C. Cloud Bros.
3  Nelson Bros
4  Allen Bros (new)
5  Cemetery-Greeley
6  Fred Campbell
7  Wilson
8  W. H. Rowe
9  J. H. Rowe
10  W. D. Kay
11  Ben Hutchinson
12  W. H. Kay
13  H. Kahler
14  G. R. Williams
15  "  "  
16  C. E. Stone
17  Fay Blanden
18  Miss Thomas - new
19  Geo. Simpson
20  A. B. McClave
21  Wm. Miller
22  Nobal Sandeen
23  Hixo Bros
24  Danielson
25  J. L. Williams
26  Roy Baird 5 m E 5 Sec.
27  Charlie Camp farm 4 m E 5 Sec.
28  Henderson & Backing Farm near 27 or 3 m E 5 Sec.

Several west of Eaton
Wm. Nettleton
Harvey Whitlock

Sugar Farm wells

West of Eaton

East of Cault

Hutchinson & Greenwald
North 2 miles from Sugar Farm
Avel Benson - East of Eaton 4 miles - Witch plant.

Pettibone 1 E - 2N of Ault

Melvin Blake - Big plant 2 m. S of Ault

North Junie Plant 1/2 S 1/2 W of Ault.

Walters - new 1/2 west of Junie plant.

Wood's Lake pumping plant - Rex Eaton Big plant south.
Plant 11 23

6/8 Dempster pump - 6 in. 8 in. discharge pipe from pump head 17 ft. long at 45° angle - outside 2 ft. thread. Pit well - concrete block lined 10 ft. diameter, depth to water about 17 ft. 10 H.P. motor - belt drive 90° turn - 7 ft. center. Good electrical wiring. Slagle roof shelter. New pump. Good opportunity for testing. Scrap material for setting weir.

Nips Bros. - Plant
Plant idle 9 A.M.
Plant 1/22
Bean Spray loc. 6 in. ch
10 H.P. motor
Good shelter
Pit well 10 ft. dia.
Plant in operation
6 inch discharge - 3 ft. to
gate valve - expand
drug sweep ell to 10 in
Discharge - about 12 ft. to
end of pipe
Suction lift about 20 ft
Discharge lift 12 ft
Used pump with water
seal
New motor - good elec
Wiring
Est. discharge 0.75 sec. ft
Pump throttled
Opportunity for testing good.
Two wells connected.
Plant No 20
New outfit 10 H.P.
Bean pump — motor on head
Fire shelter and wiring
Pump 6 in discharge
expanded to 8 in.
Well 4 ft dia. 25 ft deep
Siphon over from 2 wells
with 6 in. pipe - pitch pump for pumping
Water table at about 2 ft
Discharge 8 in. pipe 12 1/2 ft
long to join 10 inch tile
tile line about 72 6
2 1/2 ft raise in tile line
Met Mr. Simpson
Will be possible to measure
discharge
Question as to loss of head
in tile line
Discharge line equipped
with tile stock to prevent
shock on line
Time outfit
Plant 11-19

Motor - belt drive to

Dean hose pump same
as Sandeen

6 inch discharge pipe
from pump extending
section to 10 in pipe
sweping ell 2 ft 1 inch
1 1/2 section of line 12 ft
to header box

Opportunity to measure discharge

Well from 3 ft dia.

Suction left... about 20 ft
Desc. left .... 7 ft.

Three small wells sunk
into main well.

Steel casing 48" dia.

Steel bands inside of large

casing - about 5/8 x 3 inches

Wiring gets not so good

Motor replaces gas engine
drive

Pumps used exclusively.

Pumps in operation
Plant No. 19A
Red pump house
10-inch discharge line
Can measure discharge
Assumed to be old plant
Originally gas engine drive
replaced by motor
Could not get into building
for inspection
Plant idle
Belt drive

Pumping record on 11/019
April 17 to 29
May 5 days
June 2 at 10 A.
Plant No. 18

Brand new well and pumps. Not yet connected with discharge for pumping.
Bean 10 1/4 inch pump with motor in head.

Interview with Mr. Hanser.
Opportunity for testing.

Supplemental plant - Use on late water - irrigating 100 acres of sugar beets.
6-19-28 All hooked up, will be running in July.

Plant No. 18A

New equipment.
Pump from pond. Apparent 48" casing has been sunk 60' deep.

Dempster pump 5 suc. 4 inch gate valve, short coupled. Coupled to 8 inch steel water pipe.

Good shelter with standard job of wiring.

Two service meters.
10 HP. Wagner motor.
Now one we going to get speed of enclosed type — about 30 ft of 10 inch steel pipe and then a concrete conduit.

Conference with tenant indicates that motor is considerably over loaded.

10 inch line 2300 ft long
Plant No. 1813
Sugar Co. Farm
15 HP. motor - Bean
two pump 6" inch
discharge - direct connected
6 in. gate valve 10 in. discharge line 12 ft. long up
concrete box on ditch line
Concrete pump pit
Poor wiring job

Good opportunity for testing
No service meter

See Clinton almost wells
tenant thinks between 30
and 35 ft. deep - 48" steel
casing
Driller down in all these
plants is considerable
In operation puts the
ratio the wrong way.
Put in operation while
there
Plant No 18C

Opportunity for testing 12-foot pit well with two siphoned wells E & W. Large frame shelter 100 feet square. Trenching S.E. 15 HP motor

Water table at about 4 1/2 ft.

Plant not in operation

Belt driven - vertical pump - old outfit 8 inch discharge

Stand by plant - will operate after middle of July.
Plant 11/0/6

Octagonal pit well 12' dia. cased with 2 1/4 pieces about 6 ft long.
3-seeped wells into pilot main well
Vertical pump-motor mounted on head
Channel iron frame large sized motor of old design
Poor wiring
Old plant
10 inch discharge
Water table at 12 feet
No service main
Kind of pump not known
No 23 installation
10 H.P. motor at Wayne
Discharge line about 350 feet long.
will be able to measure discharge.
Plant No. 15

Octagonal well - 2-½' casing about 16 ft. diameter.

Two siphoned wells

Belt drive

Vertical pump

Wooden frame

8 inch discharge

12 inch from edge of well - short expanding section from sweeping all water in well at about 12 ft.

Can determine speed of pump but service motor is an old type 20 H.P. motor G.E.

10 foot pulley centers

Poor running job

Old outfit

Plant in operation

Discharge line about 2500 ft.

Long end of line discharge measures about 2½ in. diamter - Case measures discharge
Plant No. 14
10-foot pit well
Concrete block

Octagonal well adjacent
2x10 casing in bottom and
topped with concrete block casing
about 16 ft. across - one
pump entering this well
probably tube connection
between wells

Vertical pump - wood frame
10 in. discharge with
expansion to 12 in.

Water in well at about
15 feet.

Plant in operation

1 hp of pump and motor

15 HP

Old style suction model

Old equipment

Discharge at end of 250 ft
line is 10 inches
Discharge est. at 1/2 sec ft

26 June 8 both pumps have
been operated from 6 A to
8 p for the past 12 days. as stated by Mr. Beagle, tenanted. Records will be kept as to hours run - Plant 14 and 15 are the only sources of water for irrigation of the pan. Beagle states that due to break during the pump irrigation is not altogether basic. But it should be possible to get ditch water when needed.

Beagle thinks there is gravel and sand in the vertical section of the discharge line. Plant started at 8:00 A - June 9 water made 666.0 at 8:38 A - June 9.
Plant No. 17

Pit well meets creek 2 x 6 in. pieces per casing

15 HP motor - belt drive
12 ft. pulley center
Vertical pump - channel iron frame
Demive units 0000 all ready for service

12 in. discharge pressure well to 15 pipe and tile to
sewage tank - capacity 8 x 8
square and 10 ft. high. Two
outlets - one east 250
ft. of 12 pipe which is the
large delivering. The other
in higher lift turns went
300 feet. Can measure Q

Not in operation - water
table at 4 1/2 ft.

Can measure discharge
on east line.
Total head will be sewage
tank elevation and sump elev.
All plant

Spitting current in trans-
forms bank - could hear it
but unable to locate the
trouble.
Plant No. 13A
Open pit well 10 ft. square
All equipment exposed
4 in. Payne-Jackson pump
Not in operation
Water table at about 8 ft
10 H.P. motor - Westinghouse
Two service meters
Discharge line 4 in. rigid
gate valve reducing 4 to 6 inch
Shut 6" pipe, 6 in. gate valve
Cast 90° bell crane expanding
section 6 to 8 inches - 20 ft
Section horizontal pipe - 2 ft
Extra head
Old equipment

Plant No. 13
6 in. hor. pump
New 28 in. siphoned well
Other small wells unnceted
General condition very poor
Pump house all caved in
Owner says 10 H.P. motor
is too small for load - that
new one with 48 inch well
connected he is afraid he will
have to have a transformer
but very well satisfied
Plant #112
W.D. Kay, owner (also #10)
5 H.P. Motor Wagner
7" pump 190 RPM 110V 47 amps 3.8
60 HP
2-250-189
Constant 10 HP.." 250-189
2-189
6-inch centrifugal in pit next to 48 inch steel cased well
2-cupped well connected

Pump belt-driven 20 ft. center
Waiting standing to center of pump - Seven feet between
pump and surface.

Pump discharge into header box

Opportunity for testing:

1-16-28 - running
American M.C. pump 16" pulley (2)
8" section 6" to 9" disch. 6"

WH 15 P automatic controller
No starting box
Fuse switch
3 transformers
Fuses & horn gaps on 2nd pole

Water level pumping 20.0' below
top of casing 5' 8" below top

For testing - taps to be made
by drilling or tape measures.

No particular advantage in
testing this well if #10 is
tested
Plant No. 11
15 - N.P. motors
Bore-bit 5002 - 0000
Gourdlin 6 inch pump
Well-dynamic 14\" pump
10 inch cement well
2 x sphered wells
Opportunity for testing
Water over base of pump
10 inches discharge - entrenchhead

Plant No. 10
W. D. Kay
Portland well with 30 x sphered wells - Well width 28 ft
casing 10 ft across
American bar 6 in across
Well drilled
W. N. P. Wagner motor
Service motor No. 2710 - 11637
Plant idle
Conduit running
Discharge 6\" gate - 10 foot expansion
2 inch 12 in pipe - 45\(^o\) angle
Probably used exclusively - yes
Shutoff device on line - Gemein
d. measure discharge - testing OK
Plant 103B

Water table high and everything submerged. Motor suspended out of the water--starting with 1/2 submerged. Pit well with suctioned intake. Sluice discharge line--would measure discharge 36 ft extra lift. Concrete lined pump pit.

Rain

Everydayly planting and discharge in clear creek about 25 sec/ft.

Plant 13C

Vertical pump--suspended for motor drive with belt about 25 centers. 45 inch steel case well. Sluice 10 inch discharge opportunity to measure water. Plant not hooked up.
Plant No. 1
L.R. Love
Concrete stone lined pit well
10 feet diameter
Vertical pump 12 inch
discharge - wooden frame
Waste in well at about 22 ft.
Belt drive 20 ft. centers
Service meter No. 3971
00 21:2
New shelter and electrical equipment - fine wiring
2 ft extra lift,
Can measure waste

7-3-28
Good flow of water, much
rumbling of pipe col. and motor
very hot - overloaded. Has
been operating OK
Pump dragging in bottom having
Plant No. 2
Allos-Chalmers equipment
direct connected-linaz.
Plant in operation
Est. 10 inch pumps
drawing air at 4:15 PM
Concrete pump pit
About 2800 ft. of 16 inch
discharge line
Came meagrace discharge in
open ditch.
Plant 1923
multi well - duct connected
Bean - hor. pump - duct connected -
Place locked up
Can meas. discharge old outfit
Plant of Geo. Alles
Installed to replace shares in reservoir in 1928. Is not connected until needed. Not connected now (6-16-28). 16cA farm water used on any part.

Well 48" casing lower 36" perf. slots and is 45' deep. Log 30x4" of soil, then sand gravel. Water level 5' below top casing.

Pump 6" V. cent. placed 25 ft. down suction 8" 10'/long. 10" discharge probably 1½ to 2" too high. 12" pulley.

Motor - G.E. 15 HP 220 V 38 Amps 30 170 RPM. 6 ¾" pulley.

G.E. starting compensator, knife switch, fuses between meter and transformer. No meter in place. 2 transformers. No lightning protection. Fused on high side.

Test - Discharge is into conc. division box and can be measured in earth canal when no gravity water is coming from above. Total head can be measured with tape only.

Permission to test when operating.

Frame house shelter
Plant of R.H. Moss

Stand by plant - Gravity water for 40A and pump water for 120

Well: timber boards placed vertically diameter abt 10' rotted near top and caved in. Water level about 5' below ground surface. Casing due to lowering of curb. 15 years old at least. Probably 20 years.

Pump Vert Cent. Frame ready to fall into well. 12" pulley. Size 4" discharge est by owner as 80 m.g. 6" discharge increasing to 9" at top.
Pump is 8 yr old.

Motor 7.5 HP Westinghouse 220V 3A 18.4 amp/term. Speed 1740 RPM.

Westinghouse auto starter

No meter, Knife switch. Fuses between meter + trans. One trans. Fuses or high side - No lightning protection

Pump House partly fallen into pit. Too poor condition for test.
Plant of G.G. Moss, located in low place and well (or sump) is connected by short open ditch to pond. Well is timber curbed 12' deep. Pond 6' deep. Used to irrigate 125 A.

Pump V. cent. on rickity frame which leans 10° from vertical. 10" disch into pipe line. about 18" pulley 5" (temporarily in place). American pump 10 yrs old. Pump running and water level is about 1/2 below ground surface. Pipe line abt 500" long to top of hill. Moss 9" steel + 1/2" cement. Leaky. Motor 15 HP 3 1/2 220V 35.5 amps per terminal. Speed 1740. Westinghouse. Pulley Auto starter W.H. 15 HP 3 1/2 220V


Disch. 100 inches at high outlet. 125 " " lower as estimated by owner
Plant 4 11
See former notes

Motor Western Electric
15P 3 f 220V Speed 1140

Meter Westing house 50Amps 200V
5007
Top 50amp 200V 3 wire
Constant 10

Westinghouse auto starter 15P
Fused switch in shelter
Oil switch on pole
3 Transformers
Lightning arresters (2) on 2" pole

For testing pressures pump casing
will have to be drilled or
tape meas. used. Mr. T. does not
want holes drilled. Test 0 If otherwise
Wells main one 4-12" syphon
30' deep

Has no ditch rights 80' A
6-15-18
Plant #10
See previous notes.

Pump 6" American H.C., 16" pulley
8" suction 6" to 9\% discharge

Motor 220 volts 50 amps
speed 1140

Starting box - Detroit Fuse & Mfg Co
West house automatic controller
1500 220 V

2 transformers
2 lightning arresters + horn gaps
NW^4 Sec 21, T8N, R65W
near Pierce
T.G. Smith has 4" Bean H.C.
pump direct conn. to
LeRoi 4 cyl. engine

8 wells 4 each side of
pump. 14" wells about 21'
depth. 9 ft to water
12 of gravel.

Not operating quite well
heat for balanced suction.

Had all 3" at first and end
well showed about 3' higher
than one near pump. Estimates
about 250 g.p.m.

NW^4 Sec. 21

No opportunity to test Pott
engine - enclosed fly wheel.

This plant used to be the Nixs
Bros (Well # 23)

Several other plants near
here but driven by Fordsons
engines or other tractors

Lots of Mud
6-18-28

Plant of Jesse Graff
In S.E.4 Sec. 28 T8N, R 65 W
near Pierce
Bean turbine 10' set over
10' conc. block well no other wells
Well is 28' deep 8-10' to W.S.

Normal pump cap = 600 G.P.M.
and at least when just started
looks that much. Measure
drawdown in well with 30' of pipe to bowl of pump, no
section pipe no strainer. Does not
lose its head.

Motor U.S. 7/2 HP

Meter WH.
tag #3366 25 Amp 200 V
3 wire Constant 1

Plant replaces 4" Fairbanks Morse
V.C. pump run by Fordson
Installed May 1, 1928

Permission to test when
running probably next week
Used exclusively on 80 A
6-18-28
W.T. Miller
N.W. 4 Sec. 28 T 8N R 65 W.
Men now digging around concrete curb which is broken preparing to repair it.

A new Bean Turbine is to be placed within 2 weeks

8-23-28
10" Bean Turbine. 7 ½ ft U.S. motor
By fixing up ditch water can be meas. Heard noise of air in suction

6-19-28 Plant of J. F. Duncan
NE Sec 34 T 8N R 65 W

Will be running Thurs.
Multi well type. 2 syphon wells
16' deep Drawdown to 1.0 of bottom
V.C. pump American 3½"

5 H.P. motor ¾ turn belt

W.H. meter #500L 25 amp. 200 V 3 wire constant 1

No valves to regulate flow
Can get speeds
Can measure flow
Permission to test
6-19-28

Plant of J. Grenwalt
NW 4 Sec 34

Concrete block well 18' deep
3 siphon wells and a tunnel
Bean H.C. pump 5" direct
Connected to 1077 Century motor

Pump has 1/4" tap in proper place for pressure and 1"
plug on suction side
5" Valve to regulate flow

Pump set on top of ground
Water level 2.71 below top I beam
foundation

Meter W.H. No 5043 25 amp
200 V. 3 wire constant 1

Short discharge pipe into
ditch. I think speed of
motor can be obtained by
removing push-in cap

Plant will be running Thursday
permission granted for testing.

Can (5gal) and short piece of
Whose needed for sealing water
Has domestic well at house 300'
deep. No gravel below usual
shallow stratum. Rock, Soapstone.
No 20 Plant of A.B. McClure Ft. Luftin Colo.

Simpson renting

Bean turbine 10" new this spring

U.S. Motor 10 HP

Well 3½' in dia.
2 syphon wells 30' apart

Water surface 1.00' below top of pump base which is about 2' below ground surface

No valves. Discharges into 10' stand pipe it seems

Two WH meters 3508 + 3377
25 amp 200v 2 wire

Gas engine plants in Sec 35 all in poor shape
Plant # 194
R.M. Hutchinson owner
see previous notes

Well is 4' steel casing and has at least 2 syphon wells.

6" Bean H.C. in pit just above water. Tapered discharge 6" to 10". Tapped like Granvills 1/4 dish. 1/2" suction.
Belt driven from 15 TP WH motor. Belt has 1/2 turn.

Valve above pump.
Interviewed wife of renter.

---

Plant of F. Nagler, Greeley
N.W. Sec. 6 T 7 N R 65 W

48" casing x 1 syphon well x

5" H.C. pump name? direct conn. to Fordson engine.

5" suction. 5" discharge tapered to 10" (est.)

Stand by plant

Not good for test
6-19-28  Sam Spencer Jr.
SW 4 Sec 76 T 7 N R 66 W

V.C. pump.
Motor removed

Plant used only during dry seasons to supplement 5 ditch rights on 320 A.
This ranch is finely equipped

Plants of C.A. Pettibone (Rented)
Ft. Collins
A. E 4 Sec 5 T 7 N R 66 W
4' well with syphon wells

V.C. pump 10" discharge pipe above ground
W.H. 15 HP motor

1/4 turn belt

Fluctuating discharge - probably taking in air.

Discharge free into stand pipe and at present thru 400' of pipe

Do not think good one for test.
Plant of Tom Peterson who lives in Ault (butcher)
NW\*5 Sec 36 T88 N R 66 W
No other water - Renters attempting to irrigate 50 A
with pump

Well about 10' in dia. tunnels to other wells

Fairbank-Morse type Y 10 TP
burns coal oil
F-M. 4" H.C.
4" discharge 5' suction
discharge tapered to 10"
and is about 100' long

Not working properly today
Renters say. Think foot valve
with strainer is obstructed
Pumping less than 100 GPM. now

Not conveniently arranged
test either engine (prony brake)
or plant.
Plant of R. Jensen
NE 4 Sec 2 T21 N R66 W

Upper part of well abt 12' in
dig. of conc blocks.
Lower part smaller in water
bearing area. 38' deep
10-12' of water. Apparently a
good well.

V.G. pump belt connected
3/4" pump
Disch. pipe 8" tapered to
10" line 200' long to top of
ridge. Another discharge
point at well - Two pumping
heads.
Very fair discharge at lower
head.

G.E. motor 15 HP

Meter W.H. #4728 50 amp. 200V
3 wire constant 10

Permission to test when he
has use for water. Used
frequently. Sold ditch water
in part because of pump.

For test, tap steel plate
and replace packing. Other
measurements by tape.

Pumps name from stone (maybe) lives
at Eulen. or Mr Oliver
6-20-28

Plant of G.C. Defke
Renters B.F. Deal
NW 
x Sec 1 T7N R66W
Well about 10' in dia. 2 syphon
wells. Poor condition. Well
does not furnish enuf water
for pump and engine has
to be throttled down.

Pump Y.C. belt conn. 2" disch.

20 P Fairbanks Morse type Y
House locked up.
Engine reported to be O.K.
Plant used considerably to
augment ditch water. 160A

Pretty NW 
x Sec 23 T8N R66W
Well dug and pump in. No motor
Will use to irrigate this season

Well in N.E. 
x Sec 22 T8N R66W
not in use
Plant of E.J. Fish
SW 4 Sec. 26 T 8N R. 66W

Irrigates about 60A exclusively with pump.

Well is about 38' deep with 10' of water, one syphon well one not connected.

Pump is 3' Fairbanks Morse H.C. 4" disch.
Direct conn. to Motor about 25' below ground surface

5 7/8 F.M. motor
Poor layout for testing.

Plant of C.S. Lamb
SW 4 Sec. 23 T 8N R. 66W.

Well 32' deep 9' of water
Diam. 6'
Gould V.C. pump 3"

8TP Dempster gas engine

7 or 8 acres
# 8

Plant of W.S. Rowe near Ault NE Sec 10 T7 N R 66 W

Well 4' steel casing 30' deep
5 Syphon wells

Pump V.C. American 6" 1/2" discharge 1100' long to high point.

Motor G.E. 25 HP

Belt driven, 1/4 turn

Meters # 2779 & 2778 50 amp
220V 1 wire constant 10

8 yrs old, used to water about 90 A.

Permission to test from renter

Stand pipe (small iron pipe) takes off near ground surface and pressure can be meas. there
Other meas. by tape
Water meas. in ditch.
# 9 Plant of J.H. Rowe

Rented (Burbank)

S.E. " Sec 10 T 7 N, R. 66 W.

Rowe lives on 12th St near 13th Av. Greeley Wells 9 Wells connected to suction direct. 28' deep

Pump 6" American H.C. belt driven. Connected direct to suction pipe

Valve above pump 2" suction

Motor hung on wall used to be direct connected
Wayne 15 HP.

Meters 2 # 2835 + 2834
25 Amp 200V 2 Wire constant

Disch. 6" at pump expanding to 1/2". Line abt. 400' long to low outlet and 400' farther to top outlet. Can meas. water O.K.
at lower outlet.
Pump casing will have to be drilled for pressures

Depends mostly on pump to irrigate 140 A
Plant of A.A. Larson  
NE 14 T 7N R66W  

Well of conc. blocks abt 10’ dia.  
H.C. pump set about 10’ below ground surface, belt connected to motor at ground surface vertically.  

Not good for test  
Used on about 80 A  
Long discharge line.

---

Plant of Chris Walters  
N.W  Sec 23 T 7 N, R66W.  
48” well steel casing, one syphon well 34’ deep  
34’ deep  

Bean turbine 10” 6” discharge tapered to 12”

Motor  15 HP U.S.  
Surge pipe is 1½” and 2”  
Meter is W.H. 50 amp 200V 3 wire constant 1

Permission to test. May be running late in July. Not much interested.
Plant of C.E. Southard
NW 4 Sec 22 T 7 N R 6 W
Pumps from lake
Pump 6" American 8" suction
6" discharge tapered to 12"
Horizontal Cent.
Discharge pipe about 300'
long to ditch
Section lift now 2.2'

Motor is all boxed up
Pressure on discharge can be measured by removing 1" plug from stand pipe

Plant of R.C. Wykert (Eaton)
Otho Wykert operating
Pumps from slough Coal Bank Draw
6" H.C. pump 6" suction 6" discharge tapered to 9". Long discharge line 600' +
Engine house toched 5 yrs old
Engine is Fairbanks Morse
Type Y of about 20 HP (guess)

1/2" plug in suction side
2" valve

Irrigates 60 A.
Has no trouble with engine
Very small engine house no room to make prony brake test
Plant of T. Wylkert
R. C. NW* Sec. 17 T7 NR 66W

Pumps from Coal Bank Draw
American H.C. 4” pump
6” suction 4” disch. tapered
to 8” and maybe 800’ long
Fairbanks Morse type Y 25# engine

Irrigates about 75-A
Very small engine house

Plant of R.L. Blake
SW* Sec. 24 T7 NR 66W
Well has conc. curb at top
about 6’ square. Water level
stands at about 1.0’ below
ground level.

V.C. pump

20TP Wagner motor replacing
20TP International gas engine

Discharge into pipe line
Poor chance for a test on pressure

Pumps from drain ditch
A J Eaton (deceased)
E P Twiggs on place 19 yrs
SW Sec 14 T 7 N R 6 C W
South plant 1914

7 Wells connected to suction
25' apart 16 to 22' deep
Byron Jackson types HCPump
700 G P M 65' head 1720 R P M.
direct conn. to motor
Fort Wayne Motor (G.E) 20 TP
Pump tapped as Londons
6'' disch 6'' valve sudden change
to 12'' pipe connect with 15'' tile
line about 400' long

Well plan

<table>
<thead>
<tr>
<th>6''</th>
<th>5''</th>
<th>4''</th>
</tr>
</thead>
<tbody>
<tr>
<td>6'' drop</td>
<td>5''</td>
<td>4 3</td>
</tr>
<tr>
<td>15'' tile for 400'</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Used in connection with
ditch water for 380 A

Permission to test. Will be
using plant next week
E.P. Twiggs Eaton estate
North Plant 1920

9 wells connected 16-28' deep
25' apart

Byron-Jackson type S, HC pump
8" suction 7" Disch. 7" valve
short increaser to 8"
1000 G.P.M. 65' head 1720 R.P.M.
Date 5-15-12

Motor G.E. 20TP direct conn.

Meter - one for both plants
W.H. 80amp 200V 3 Wire constant
10 #1181

Pump taps as at other plant 1"
Plants about 100' apart

[Diagram: Pump 6" 5" 4" 3" 2½" drop pipe]
Plant of T.K. Wilson

Well is 48" dia. steel casing 52' deep

Pump is Bean H.C. direct conn to motor in pit about 18' deep.
Size 4" I think gate valve above pump 5" discharge Water level 1.16' below top of I beam foundation.

Motor G.E. 10TP

Motor out on top of ground got wet

Installed 1924

Stand-by plant. Used somewhat each season.

Pump hard to get to

Note Nos 6 & 7 are just across the road from each other and discharge can be run either way thru 6" pipe
Plant of Fred Campbell
demonstrated being 1st in valley
1st plant installed 1924. Had Bean H.C. in pit replaced last year by present plant.

Well 4' steel casing 52' deep with 4' of cobbles one syphon well 3' distant 65' deep.
Pump 10" Bean turbine 7" discharge

Motor U.S. 15 HP
Motor W.H. Typo OA Tag 25 amp 200V 3 wire constant 1 & 3966
Can measure water
Meas. head by tape & level
Permission to test. Stand-by plant. Will use in July. Handy except for water surface.

Sign on Wall
Depth of well 50'
Dia. 4'
Pump 10" Bean
Capacity pump 700 GPM
Size of motor 15HP
Total lift 50'
Total Cost of Installation $2400
Plant of J.S. Dalton
NE Sec. 26 T7 N R6 W

Wall old large curb with 48" steel casing on inside. Depth 34'.
One well.
Water surface 3.21' below top of I beam pump foundation which is about 2' below ground surface.

Pump: Beam 6" H.C. direct connected to motor. 6" discharge & suction. Expanding suction elbow to discharge has 6" valve and expands to 11" which is about 500' long.
Motor: Allis-Chalmers 25 HP.

No meter.

Pump has 1/2" taps in proper place on suction & discharge for testing.

Replaced gas engine.

Can measure water.
Stand by plant on 70A.
Permission to test. Will not start up till needed.
Plant of C. J. Magnuson
NE 4 Sec 27 T 7 N R 66 W

Pumps from ditch

Famous water elevator raises water about 14' to high spot to cover 16 A from ditch.

Capacity 600 g.p.m. @ 60 buckets per min.

Engine 8 HP 2 cylinder Cushman uses 3/4 gal. gasoline per hour
Lift 12 to 14 feet

Installed 1919, replaced 6" centrifugal which gave trouble by trash.
This plant satisfactory to user
6-22-28

Plant of H.W. Farr
NE* Sec 19 T 7 N R 65 W
Pumps from ditch to 40 A of
spuds on higher ground.

Pump 5" Bon H.C. 5"
enlarging to 7" suction. 5" disch
enlarging to 12" for about 400.

Motor direct conn. to pump
15 HP Westinghouse

Pump is tapped on suction
side 1/2" at proper place.
Pressure side tapped same
but sealing water taken out
thru 1/4" pipe. Pressure can
also be obtained thru stand
pipe thru roof.

Not connected now
Plant of Work (son of Hobert Work)
SW 4 Sec 17 T7N R 65W
Pumps ditch water from sump.

Dean Hill pump. H.C. direct conn. to motor. Double suction horiz. split case. Size 8”
1600 G.P.M. for 30 Ft. head @ 1140 R.P.M. 8” suction & Disch then 9” line 7 or 900’ long
Motor Crocker Wheeler 20HP.

Meter W.H. type OA
50Amp 200V 3 wire constant 10

3/4” drain plug in bottom of pump on disch. side.

Casing would have to be drilled for fast.

Discharge at 2 levels

Used frequently

See Work’s Attorney Waldo in Grealy
Plant of E.K. Packard
N.W. Sec. 30, T. 2 N
Smillie renter
Pumps from Lake 7" H.C.
pump 7" suction and valve
expanding to 12"
7" discharge 7" valve and 2000 of 12"
Looks like American

Motor 15 HP Ft. Wayne direct
conn. to pump

Meters 2 G.E. type I
# 2409 & 2410. 25 amp 220V
2 wire constant 1

casing would have to be
tapped for test
Grant Deal
J.D. Cook renter
NE 4 Sec 80 7N R 65W

Pumps from ditch

Pump 6” H.C.
direct conn. to motor
6” suction, 6” disch. 7” nipple
7” gate valve and then 1/4 mile
of 12” pipe. 2 small leaks

Motor - Fort Wayne 2.5 HP

Meters 2 GE, type T
50 amp 220 V 2 wire Constant 1
# 2720 and 2719 which is 50
amp 200 V 2 wire Constant 1

Casing would have to be
tapped for test.
16-22-48

Fred Campbell
S.E. 4 Sec 30 T 12 N R 6 S W, Fleming
Pumps from ditch

Pump 6" Bean H.C. direct conn. to motor 6" suction 6" drisch, valve and then 1700' of 12" riveted pipe.

Motor 15 HP Westinghouse

Meter W.H. type OB 50 amp
230 V 3 wire constant 10

Pump has tap for pressure none for suction. Use tape Suction very short

Will be pumping after Wednesday of next week

Good for test - permission granted
Plant of Gus Johnson  
NW 4 Sec 1 T 6 N R 6 W

2-24-28

Well 48" steel casing  
54' deep to hardpan. 0 - 21 - soil  
21 - 54 gravel except 2 lenses of clay  
Bean 10" turbine set at 50'  

Motor U.S. 15 HP

Pumps into ditch  
Meter Wilf type O A  
New Plant this spring  
No one at home

6-29-28

Will be pumping in July  
Permission to test
Well 360' deep

plunger pump belt drive
3 HP W.H. Motor

Another plunger pump belt driven nearby
small

Irrigation plant
5W Sec. 34 T17 N. R. 66 W
Pumps from ditch

Pump 5" Jackson suction
10 HP Westinghouse Motor

2 Type I-14 G.E. meters
Pumps thru 15" pipe line 200' long. Low head

Pump casing would have to be drilled for testing
Ralph Eaton
Gus Peterson Farming
N.E. Sec 3 #T6 N R 66 W
Pumps from ditch for about 100 A.

Two pumps in parallel

Jackson 5" direct conn. to W.H. 10 TP motor

Jackson 8" direct conn. to 15 TP GE motor

Pumps at two heads one low and one thru pipe line 1/8 mile

1/2" plug in proper place on 8" pump for pressure also on top of suction elbow.

5" pump would have to be drilled

Meters 2 single & G.E.

See Ralph Eaton - Eaton
Eaton Investigating Co
Woods Lake

5" Byron Jackson H.C. pump
type DC. Single suction

Motor 20 HP Ft. Wayne
direct conn.

Pump is tapped on both
sides 1/2" but pressure side
require short nipple & elbow

Discharge line is 6" with a
pressure gage on it. This could
be removed for pressure but
is 8' beyond pump with
valve & elbow between. Short
disch into large corr. pipe; it
seems, can be measured. Pump
into tank for sprinkling, lawn et
Suction can be meas. with
tape - short

Meters - two
Eaton Investment Co
Rex Eaton

Pumps from Myers Lake
N.E. 4 Sec 8 T 6 N, R. 66 W.

Pump is Allis-Chalmers, 5 12 e
10" Type S. Head 40' 2250 G.P.M.
Double section, horiz split.
H.C. direct conn. to motor

Pumps thru 300' pipe line 12"
Pomp is tapped as in B-S pump with 1 1/4" taps.

Meters - 2 single & Type 1114
G.E.

Can meas. water one direction
Will be operated in August
Ft. Collins Country Club

Pumps from well (500') deep sealed at top by pump

Plunger pump. Make & size? Size about 2 1/2" x 7"

Motor - old timer with no name plate. Listed as TP

Pumps into air-pressure tank about 3' x 10'.

Conditions for testing mech OK but can't get at well

Mo99 NW * Sec 31, T 8 N, R 68 W

Place locked up people away look like 2" H.C. belt driven and a plunger pump.

Pump from lake thru iron pipe
EA Whitaker  
$NE^4 Sec 31 N10 W R68 W
Domestic pump (plunger) automatic tank.
Pumps from deep well
1" centrifugal at house for lawn etc. pumps into tank

Plant of P. Hartwig  
SW^4 Sec 33 T8N W R68 W
Pumps from 4 wells con. Wells 30’ deep, spaced 50’
About 12” to water 12” casing
Pump is American H.C. 6” in pit 8” suction

Water can be meas. when flowing 5.
Motor - Crocker Wheeler 15TP
conn. by belt to pump
No meter - disconnected
Pumps into stand pipe enlarge concrete

Pumps late water will be connected soon. From long
conversation believe owner is willing to allow us to tap
pump.

9-18-28
Another talk with H. Did not seem to arose any interest and
in view of pumping at three lifts decided not to bother him any
more
P. Hartwig
2nd Plant
SE* Sec 33 T8N R68W

8 wells connected. This pump has to be throttled to prevent pulling air 36 deep for 8 of gravel 6" American pump 8" suction 6" disch. expanding to 9" Short discharge to ditch Belt driven 25hp Crocker Wheeler motor Not connected now. Pump will have to be tapped Water can be meas.
W.E. Dalby 5W4 Sec.33 T28N R68W
Well (pit cement blocks) 32' deep
about 15' to water
Log soil 8' large gravel rest
of depth. Extensive area in
this locality the same.

Pump. 5" American V.C. bottom
section, 7" disch. to ground
surface then 8" (short). No
suction pipe.

Belt driven

G.E. 20HP Motor Type KT
1165 R.P.M.

Can measure water

Would very much like to have
plant tested. Used practically
exclusively on 60A.

Meter WH # 7578A Type B.A.

Head measurement with tape
pump submerged at all times
Discharge guessed at 11/2 SF
NW 4 Sec 33 T9N R68W
Lanning Plant.
Well-pit cement blocks
Vert. Cent pump

20 T.P. motor Wagner

Meter W.H. type 0A # 5785-A
Meas. head with tape
Meas. water OK.

Used on 40A almost exclusively. Mr. Marsh has charge - could not find him.

This is W. one of 2 wells 100' apart. E. plant dismantled but can be observed for water level

Disch. guessed at 25-2
6-27-28

NE^2 Sec 4 T 8 N R 68 W
Well conc. blocks N1

Pump - Union Steam Pump Co
Battle Cr. Mich. Double suction
6" Plate data 700 GPM 80' head
6" Suction 6" disch.

Would have to be drilled for test

Crocker Wheeler motor 15 HP
direct comn to pump

Suction head about 7'
Discharge head about 11'

Disch. meas. in ditch
Running - Did not see owner

N.W^2 Sec. 10 T 8 N R 68 W
Dismantled
Water level at 0.50' below top of concrete W. side of well
Meyers NE 4 sec 16 T & N R 68 W
10' Pit Well 2 wells west

Y.C. pump
about 8' discharge thru pipe line

Motor Fairbanks Morse, Type B
20 HP Speed 1140

Meter not in.

No one at home
J. J. Dienes
NW Sec 15 TN R68 W
Farms 80A with plant exclusively

Conc. pit well (square) Mult.
well conn. suction
H.C. pump in pit about
12', down near water surface
Looks like 6" American

Motor at top is Crocker-
Wheeler 25 HP

Belt is nearly vertical

Pump would have to be
drilled. Has gate valve.

Discharge into ditch
(Mittens)?  Ft. Collins
Rented
SW 4 Sec 15 T8 N R68 W
Multiwell type with concrete lined pit.

Vert Cent pump, connected
suctions.

Motor is 20 HP Westinghouse
Discharge into pipe line
three outlets
Difficult to test
Running now
Plant of W.A. Groves  
N.E. Sec. 4 T6N R 66W

Pumps from seepage ditch. which I guess is flowing 2 s.f. today.

Jackson 5" H.C. 1/2" taper plug on suction elbow. None on dish low suction lift. 5" gate valve and 1/4" pipe to about 12". Fort Wayne 20 HP motor direct conn. to pump.

Meter WH Type C 40 amp 100 V 3 wire constant. Does not want pump tapped. Used on 85 A of land
C. V. Anderson  
Son of Gus Johnson farming  
5 E 4 Sec 36 T 7 N R 66 W

Bean Turbine pump

OK. totest when using water as far as Johnson is concerned.

Did not visit plant but talked with Johnson

7-1-28 Well 13 A

Water level 2.12' below & motor shaft.
SW Sec 3 TGN R65 W
Well about 10’ dia. 2x6 laid flat

Pump 7” Jackson H.C.
Motor Ft.Wayne 20TP direct conn. to pump, but hoisted on chain out of water.

Pump has 7 x 8” suction elbow tapped ½” plug. 7’ disch 7”
Gate valve 7’ x 11” taper. Short disch into ditch

No one home

W.W Henderson
NE Sec 21 TGN R65 W
Well pit square vertical planks in poor condition

V.C. pump timber frame
American 5”
Motor Westinghouse 20HP

Belt drive has not been used this season. May not use plant if reservoir water holds up.

Did not see owner (next day)
H.N. Bickling (E.well)  N.E.  Sec 21  TGN. R65W  
Well 48" steel casing  
3-12" wells direct conn. suction  
V.C. pump American 6"  
Ft. Wayne Motor 20TP  
Not connected  
Opportunity for test  
Not a good well  

---  

NW# Sec 15 T6 N R65W  
Well - hollow conc. blocks 6'dia  
V.C. pump timber frame  
Fairbanks Morse Type Y 15TP  
Room enuf here for test  
Not much of a shelter
Multi well type. Direct suction

6" Bean Pump H.C. in pit. Has 1/4" connections equipped with vacuum and pressure gages. Gate valve and 1000' 10" line various 10" valves. Iron pipe does not leak

20 H.P. Westinghouse motor

Plant 2 yrs old. Permission to test. A good plant to test, convenient.

7-2-28 W.H. Henderson

Well 4' steel casing 40' 12" casing to 80' to rock 75' of gravel

Standby plant for dry years

PumpBean 12" turbine. 4038' to bowls. 7" dish

Breaks suction in about 1 hour

Motor 10 H.P. U.S.

See 2nd page back - this plant is abt 300' E. of old plant

Would like to have test made when puts in syphon well
7-2-28  H.N. Bickling  
NE* Sec. 22  T6 N.R 65W 
Pumps from ditch on 160A 
Water enters pit thru pipe line 
6" Jackson Pump H.C. 2" to 8" 
suction ½" tap in elbow. 6" Disch gate valve and pipe line 18" tile 
400' long 
No taps in disch line. 
Plant running, not enuf water drawing air. 

25 hp W.H. motor direct conn but on separate base but on same timbers 

NW* Sec. 23 T6 N.R 65W 
Pumps from ditch. V.C. pump - short, belt driven 
20 hp Wagner motor - replaced gas engine 
2 meters 
Pumps into pipe line 
Hardly think worth testing
NW 4 Sec 27 T 6 N R 65 W
Pumps seepage water
V.C. pump
Motor locked up
Doesn't look much used or much use to us

S.R. McLaughlin (in Egypt
NW 4 Sec 20 T 7 N R 64 W
Farmed by Hendrickson

Pumps from lake about 80 A

6" Jackson H.C. pump 6"x7" ell
with ½" plug on suction side
No plug on Disch side 6" valve increaser to 11" pipe line 500' long

Westinghouse 10TP conn. by belt
to pump. Replaced 15TP gas engine

Permission granted to tap pump
and make test
At N. end of lake is a Famous
Water Elevator driven by
5TP gas engine. Surrounded by
water now.

Heavy rains Jun 29 caused
lake to overflow. Hail caused
much damage in this locality
7-2-26
Pete Erlich
S.E" S2c19 T6N R64W
Tenant does not have key

Frank Waring
Gas engine plant I'm middle
12" single cylinder
of NE" Sec. 19. Did not see it.
No one at home

H. E. McDermott
SW & Sec 19 T6N R64W
Pit Well. Then 4' steel casing
also 1- 4' syphon well
Bean 10" turbine 6" disch.
with sheet iron over short
nipple and is reduced abruptly
to abt 6" I.D.
800' of line that leaks, intends
To repair. 10" tile
71/2 H.P. U.S. motor

Head may be meas in standpipe
Or permission to tap pump head.
7-3-28

Jacob Ginter & A. Johnson
NE 4 Sec 25 T 6 N R. 65 W

Used on 20 A
Pumps from ditch thru abt 400' of 8" pipe
V.C. pump belt driven
7 1/2 HP Westinghouse motor

many miles between
Billings?
SE 4 Sec 27 T 5 N R 65 W
Conc. pit well abt. 12" in dia.
V.C. pump belt driven 9" disch.
Motor gone - no transformers
12 HP gas engine stored in shelter

E.H. Houtchens
S.W. 4 Sec. 21 T 5 N R 65 W

Plant or well not in order
Not expected to be operated
1-10-29

Williams

N.E. Sec 34 6N 65W
Well 48"

Pump 6" H.C. Bean, direct conn.

Motor G.E. 15TP

Short disch to ditch where water can be meas. Pump has taps. Good flow of water.
March 9
J. M. Purdy
NW \( ^{4}SW^{4} \) Sec 28 T9N R68W
Large diam pit well of concrete blocks
V.C. pump 8" discharge pipe. About 4' unnecessary lift.
Engine 15TP Dempster
Has not been used for 3 yrs

J. G. Jones
N.E. \( ^{4}SW^{4} \) Sec 29 T9N R68W
Large diameter pit well about 20' deep 25 deep under
pump 4" V.C. pump
15HP Alamo engine
Used as standby plant each year on 15 or 20 A.
NW*Sec 28 T9N R68W

Large dia. pit well conchblocks
V.C. pump 12" disch pipe

Tractor drive
Used very little

Barnes
NW*Sec 4 T8N R68W

Timber pit well
About 3/8" H.C. pump
1 Pit Hercules engine

Outfit used very little recent years.

Poles in place for electric wires. Intends replacing plant
G. Simpson 2 mi S. + 3/4 east of Olive Branch schoolhouse new plant

Grath 1/2 mi S of S.H.

W.T. Miller will have new plant in operation by July 1.

6 mi E of Pierce.

G. Simpson

C.M. Robins and Rover

Lapson 1/2 mi W Adlt

Walters 1/2 mi S + 1/2 mi Wault

Johnson 1/2 north of #7

Another nearby nickel R.R. track

Well 1 mi S + 1/2 W of Eaton

Gas plant in Sec. 27 near Eaton

Walters Work - Walters Add., in Graysby

Tom Pu leston Gas plant N. of Wellington 1 mi

Lanning

101 plants installed this summer
No 3159-121.5 - 8:30 A  June 9 1934
No 2946 - 666.0 - 8:38 A
No 3159-122.5 - 9:30 A  

No. 5042 - 2321.5 9:00 A  June 9
28 Rev of disk in 82 sec.

Ross Oliver 711-12 26th.
Weartable 711-12 26th.

Greeley

[Diagram of a mechanical or architectural setup with numbers and measurements]
E.W. Shelton
SW 4 Sec 33 T22S R55W
Pumps from Holbrook canal

10" Goodner pump in pit
12" discharge into steel pipe and stand pipe. 2100' of 15" pipe. 4 outlets.

Irrigates 250A.

30 1/2 HP G.E. Motor type CS
Belt drive 1/4 turn
13/4 G.E. meter

Probably flooded suction but water sort easy to get at. Pressure in stand pipe can be measured by attaching to garden hose outlet controlled by valve. 3/4" nipple required

Speeds & water can be measured at 3/4 outlet

Permission for test.
Moore head
about 1 mi West of Shelton
NE 4 Sec 5 T 23 N R 55 W
Pumps from Holbrook

Goodner pump
25 GE motor
Belt drive 1/4 turn
Not enough water for pump today

Probably could be tested but not such a good layout as Sheltons

Gibbs Farm
NW 4 Sec 5 T 23 N R 55 W
Fordson tractor plant
Goodner pump about 1 1/4 mi W of Sheltons.

Small pump and probably flow could be measured in 6" flume.

difficult to get head unless standpipe would hold ladder
C.E. Love - 0.7 mi. W. of Ft. Lyons underpass
New Sec 1 T23 S R56 W
Pumps from Holbrook
10' Goodner
15 TPGE motor
Ditches not in shape for measurement.

Two other electric drive plants and one Fordson plant close by and not in shape for testing.
Jorgensen Rocky Ford

Kenagy sells G. pumps

NW Sec 6 + 23 OR R 51 W

Pumps from slough

#8 Goodner pump lifts about
25 ft. vertically to flume

20 HP G.E. motor

Irrigates 80 A

Permission to test

Gov. plant

Sec 6

Pumps from same slough as above

Pump V.C.?  

35 HP Alamo engine - (according to Kenagy) no name plate

Pump thru stave pipe line.

300' to ditch. Believe this
plant O.K. for testing. Iron
elbow at pump can be drilled
for pressure. Water can be
meas in ditch with weir

1200 - 1510 gpm?
H. W. Beckman
S.E. 4 Sec 20 T22S, R54W

Intend to install 8”
Fairbank Morse H.C. pump on
ditch and drive with tractor
Pump on hand (new)

J. C. Roman Jr.
SW 4 Sec 21 T22S, R54W
Pumps from ditch

Goodner pump. Pumps into
pipe line several hundred feet
long. Stand pipe about 10’ high.
Witte 1 cyl. 15 HP engine
Looks O.K. for test.

V. Hansen
SW 4 Sec 22 T22S, R54W
Pumps from ditch
Goodner 8” pump driven by
Fordson. Lift about 12’
Water probably can be meas
in ditch.
Harry Mendenhall
SW 4 Sec 1 T 23 S R 56 W

Pumps from Holbrook

V.C. Gould 8" Gould
Standpipe indicates 20' head
Tile pipe line 900' to open ditch
20 TP G.E. motor
Open ditch wont stand checking higher for quite aways

Dr. Fenton
Plant 600' N of above
NE 4 Sec 2
Pumps from Holbrook

8" Hill-Tripp H.C. split
Suction . 3/4" taps
15 TP G.E. motor direct conn.
8" valve 11" steel pipe line

Plant does not appear to be in service
Mrs. H.C. Badger
SW 4 Sec T23 R56 W Oshel
Pumps from Holbrook

10" Goodner
10TP G.E. motor

Ditches not very good for meas.

GOA

1

NW 4 Sec 10 T23 R56 W
Gould 8" H.C. would have to
be tapped on suction side
Disch. has 1\(\frac{1}{2}\)" pipe (short
nipple, coupling & plug 8" Valve

25TP G.E. motor (hot)
7-10-28

#2

Burrell
NW 4 Sec. 10
Goodner pump
10 TP G.E. motor
Pumps thru short discharge
to burro ditch
50' S. of #1

#3

Burrell
N.E. 4 Sec 9 T23S R 56W
Pumps from Holbrook
10" H.C. looks like Hill-Tripp
10" gate valve suction side
10 TP Howell motor
No taps. Heads could be
meas. by tape
Believe water can be meas.
running E.
Mrs Hass Potter
Harry Mendenhall, Mar.
N.E. Sec 8 T23 B3 R56W

Pumps from ditch. Sugar Factor waste water
Big pump vertical (Goodner?)
about 20” disch. pipe
2017 G.E. motor
Plant looks little used yet
it is only supply for about 90A

C.E. Newby

Gas engine (Ford) plant in
SW W4 Sec. 5 T23 B3 R56W

Pumps from well - water rises
in well after pump starts
Well 21' deep

---

J. Bennett
25 Natl Bank La Junta
SW W4 Sec 2 T23 B3 R56W

Pumps from Holbrook
Y.C. pump size? American 8"
G.E. motor 7 1/2"HP.

Very low lift. Possible to test
1st Nat'l Bank La Junta
Earl Bennett
NW 4 Sec 14 T 23 S R 56 W
Looks as if pump were connected to 4 wells

4" American H.C.
Not used
Smaller H.C. pump on base of motor formerly used to drive 4" pump.

Mrs. McCallan Clellan
NE 4 Sec 10 T 23 S R 56 W

Pumps from Holbrook
Lift about 10'

Goodner pump 15" disc, very short
Motor W.H. 25 HP

Ditch 7' wide at flow line
Myers farming

7-20-28
Pumpryming - pouding - low bearing bad?
E.C. Weston

Pumps from Holbrook

Goodner*5 pump 7" disch into stand pipe (concrete) and pipeline 6" - 600'

57P single φ WH motor

Pump not in shape for test

7/16/28

Marshall
Sec 2 T 24 S R 55 W

Pumps from well 82' deep

20" 70% perf. casing in pit

#46" Goodner pump

10 HP 2 cyl. gaso. engine

Brand new plant. At edge of town on N.E. side of town.
L. Hallows
SE 45 Sec 3 T23 S R57 W
Pumps from Catlin ditch
3 Goodner
5 HP Single φ Wagner motor
Irrigates 60 7 A
H. thinks pump irrigation the bunk

(Mr.) D. H. McPeek
SW 4 Sec 4 T23 S R57 W
Pumps from Catlin ditch
on 17 A
Goodner pump
5 HP Single φ G.E. motor
Lift of maybe 3'
Permission to test

Bishop
Brush
NW 4 Sec 10 T23 S R57 W
Pumps from Catlin

Small Goodner open top pump. Lift 5' or 6'
4 HP Weber gas engine
Water can be meas. 6" flume
Geo Babcock
Sec 16 T 23 S, R 57 W.
Pumps from Highline canal
Irr. 95 A

F.M. eng type NorNB25P

W. Gerbing & Cornelius
Sec 16 T 23 S, R 57 W
Pumps from Highline
American pump
Tractor driven
50 A irrigated
Farmed by Japs
J.C. Yrman #2
SW Sec 32 T 22 S R 57 W
Pumps from 3 wells directly connected sections

6" H.C. American double suction pump. Has 1/2" taps on both sides.

Motor removed for repairs

Drawdown can be measured in wells

Opportunity to measure water by flume or weir in regular ditch when not running ditch water

Large concrete shelter in ground. Entrance thru small opening in roof. Bad.

J.C.V. #4

Duplicate plant of above. 1/4 mi NW W. of #2. Either can pump ditch water.

Water standing on floors of both shelters

Permission to test from Mr. Brown. Has use for water any time 12 or 24 hr run.
7-17-28

J.C. Vroman
NE 1/4 Sec. 29 T22S R57W
J.F. Mumm operating

Well concrete pit 20' dia. with 4 wells in bottom. Connected
suction

Pump Goodner steel
frame 15½" discharge

Case 22-40 TP tractor set as stationary engine

Water can be meqs. Used in connection with Catlin ditch
water which is flowing today

Abercrombie
NE 1/4 Sec 24 T 22S R58W
Pumps from well

Very small outfit - 3" discharge pipe
H.C. pump
Motor hanging on chains
Locked up

Mr. Gilmore told me that
Abercrombie tried to get a
well on the S side of his
place but struck no gravel
Dave Liles (Manzanola)
SW 4 Sec 22 T 22 S R 58 W
Pumps from well.
4" American H.C.
15 TP G.E. motor direct conn.

Equipment "in small room at bottom of pit. Too small and dangerous to work in.

Gregory & Spencer
SW 4 Sec 22 T 22 S R 58 W
Pit - well drilled at bottom
15" casing 22' long 12 ft perforate.
Blank casing to hold back sand 12 feet good water gravel above shale. Total depth 41'.

Irrigates as stand by plant on 46 A.
4" Hill-Tripp H.C. belt driven

Motor 10 TP W.H.

Tap for pressure, not for suction
Water goes thru 6" tile line which has 2 small leaks in it
Water can be measured in good ditch. Can't get pump speed
Permission to test.
7.17.28

John Bailey Beaty (Manzanola SW 4 Sec 23 T 22 S R 58 W)

Pumps from Catlin ditch
Goodner pump discharge into hopper. May be difficult to get exact head.
5 HP single G.E. motor
Opportunity to meas. water

R.O. McClain
SE 4 Sec 22
Pumps from Catlin ditch
Gould 6" H.C. belt driven
7 1/2 HP W.H. motor.
Lift about 7 feet into box free discharge practically and head may not be accurately taken.
No taps on pump

R.O. McCoy lives in large red brick house on Wedge of Manzanola
Ditch will stand only 3" more head at pump house
B.H. Gilmore

Well 42' deep, pit 5' dia to 26' and 16' G.I. perf casing 16'. Water all in large gravel. This gravel does not extend much S. of this plant. Water level 3" higher than usual. Is about 5" higher than casing top. About Dec. 1, 8" below top of casing.

3" H.C. American pump
4" section 3" disch 3" gate valve

7 1/2 HP G.E. Motor - direct. conn. in room at water level.

17.7 A irrigated in conjunction with

Permission to tap pump and make test

Thunder storm about 4:30 P.M. lightning here - heavier eastward
Well pit 25' total depth 42'± ft. 16'' perf. casing.

American 14.C. pump 5''
Motor 15HP Westinghouse direct conn.
Irrigate C&A exclusively
Can meas. water in ditch
Permission to tap pump for test.
Temp. water today 56½°F
Mr Roberts thinks the cold well water has detrimental effect on beans. OK for sugar beets
Thinks pump irrigation very satisfactory
W.R. Stobbs

Plant #2

Pumps from 8 wells, shallow
About 30'
Water level at about 20' while pumping

8" F.M. Co double suction
pump. H.C. taped for pressures 1/2" plugs

25-17 Type Y F.M. Co engine.

Plant #1

Pumps from 10 wells, shallow
wells. Water level at about 18', while pumping (Stobbs)

For some reason Mr. P. developed a considerably amount of resistance towards the close of our talk, and his inability to understand what we were trying to do. He seemed suspicious, maybe of power companies and refused somewhat opposed to my looking at #1 plant without

Caption: What is the purpose of the plants and what kind of equipment is used? How do the water levels and pressures affect the operation?

Caption: What kind of resistance did Mr. P. display and why did he have concerns with power companies?
Robert Beaty
HW. Blaser farming
SE 4 Sec 21 T 22 S R 5 B W
Pumps from well as a stand by. 103 A
Well is 56' deep. About 35' to water - water in gravel
Pump 6" Jackson double suction tapped 1/2" on suction 1 1/4" drain plug on disch. Valves
Motor 207 P GE.

Good place to meas. water close by
Fine layout for testing & permission to do so
7-19-28  John Mumm  
SE 1/4 Sec 21  
Pumps from well. 4' pit  
with drilled well at bottom  
Pump & motor in room.  

3½" H.C. pump direct conn.  
to E.Morse 10TR motor  

No taps on pump. Water  
can be meas.  

2 Plants in SW 1/4 Sec 21  

S. side track. Narrow pit, looked  
too wet while pig to go down  
looks like good well  
Equipment same as Mumm's  

N. side track. Good well, pumping  
Dr. E.C. McClain  
Looks like new American 5" H.C.  
Motor back in narrow room too  
close to wall to get speed.  
No taps in pump. Can meas  
water
Mrs. I.M. Barnard
Mr. McCaulay (Ph 80 R 11)
SE 4, Sec 23, T. 22 S, R 59 N
Pumps from well - for 96 ft. 18 A also
Big pit

Lead, Courtenay 4" H.C. double suction pump, tapped ½" on both sides

#5 7P WH motor

Can meas. water. Will run any time - call on phone for arrangement

Pump marked 350 G.P.M.
Good conditions for test

C. J. Stader
NW 4, Sec 22, T. 22 S, R 59 N
Pumps from 2 wells - sealed

6" H.C. pump, not tapped
10 HP G.E. motor - cant get speed.

Can meas. water

Pump is stand by for near 100 A. Oxford ditch
7-19-28  Endrud & Johnson
SE 4 Sec 15 T22S R59W
Well - brick abt 10' dia.

Pump - Buffalo 6" double suction
H.C. tapped beyond valve on pres.
side only
Motor 20 HP G.E.

Water can be meas.
Used in connection with ditch
water on 160 A

Johnson is Mgr. at R.F. for So. Colo
Pwr. Co. and would be glad to
have test made. Farmer says he
can make run of water most any time

G.W. Lackie

Well 30' 17' towater

Pump - F.M. 3"

Ford motor direct connect.

Did not see plant altho I stoped
at place - no one there. Talked
with Lackie at his service
station in Fowler
Soren Nelson, Peterson Farming, SW Sec. 17 T 22 S R 15 W

Well in connection with ditch water on 30A

15" pit excavation 14-15 gravel 7 layers cemented gravel 28' shank

V.C. Pump

10 Hp engine

Peterson agreeable to test but not much interested

Mrs. Ida Rocker, Nelson, SW 20

Pit, brick lined well 22' deep

Annie V.C. pump 10" discharge 6"

Motor WH 15 TP

Can't see where pipe line goes to. No one at home

13:00 to water April 20, 1930
Rasmus Stieinholt
8E4  Sec 19 T22S R 69W.
Well is 27' deep and 8'
of 20" perf. casing.

Pump Hill-Tripp 6" H.C. belt driven. No taps 1000' of wooden pipe line.

Motor WH 15 P
Used as stand by on 150A.

Dark as a pocket in pump pit
Not so good for a test

Paul Boving
NE4  Sec 30
Well 19' deep 5' dia. brick
Just completed 6' water
Stand by plant stock + 10 A

2" H.C. American, belt driven to be installed

5 H.P. single @ W.H. motor
Alfred Hansen
NE 4 Sec 39 T 22 S R 55 W
Well used in addition to
ditch water on 80 A.
abt 8' dia. brick Approx 10’ to water
20' deep to conc. rock + shale
4” American H.C. pump

Engine 9TP Alamo, kerosene
49’ at disch to ditch where
water can be meas.

Cris Ragberg
SW 1/4 Sec 29

Plant used in conjunction
with ditch 40 A

Well is 20' deep 8' dia. brick

VC. pump 8” disch into ditch
American 4”
8TP Victor gaso engine
one cyl. [J.H.C.]

Permission to test from A. Hansen
who is farming place
About S. boundary of good
gravels
Hansen would be good man to
work with on test.
7-19-28

Louis Stumpf
NW 1/4 Sec. 29
Well 25' deep, pit, brick
American H.C. 4''

C

Alamo 15TP
Used very little on 60 A
Seasonal fluctuation about 8'
highest 2 weeks ago.

1 - M. McClellan
NE 1/4 Sec. 29
Well brick about 14' dia.
H.C. pump, looks like 5" American

C

22TP Stover engine
Running good today - over 15 sec. it
Leaky dish pipe allows water to fall back on pump
Can get pump speed + meas water

Did not see owner.
Rasmus Stjeinholt
NW 4 Sec. 29 T22 S R59 W
dig.

American H.C. 6" pumps
thru 1000' of pipe line.
Pressure above valve thru 1" pipe
connection.
Motor GETP? (too dark?)

J.O. Weiland
S.E.4 Sec. 20 T22 S R59 W
Multi well type

8" Hill-Tripp double suction
direct to wells. Taps (2 sizes) on
each side of pump.
10 D.W.H motor direct conn.
Used in conjunction with ditch
water or large acreage

Mr. Weiland not at home.
Easy plant to test.

Leaky line

5-12-29 line not repaired.
Runs water from pump along with
ditch water
Burrel
NW 4 Sec 36 T 22 S R 57 W
Pumps from well

4" pump, H.C. in shallow pit, belt driven. Think tap is O.K. for suction. None for pressure.
Motor 5 HP WH.

Can meas water due south

7-21-28

C. Stenner
NE "Sec 1 T 22 S R 58 W
Pumps from ditch

Goodner pump about 12" disch.

10 HP F.M. Co. motor

Notenuf water today for pump. Taken in gulps. Pump has bearing knock and
top stuffing box leaks

Lift 8 or 9 ft.

Could not meas. full pump cap. in ditch for 1000' anyway
Twin Lakes Land & Water Co
Pumps from ditch

18” Hill double suction H.C. mfg. by Midwest Eng. Co. 9500 g.p.m. rated

100 HP G.E. motor direct drive

Lift 29'
Has been running since July 4
Has to throttle down disch. to keep ditches from breaking

600' of 32” steel pipe

Dr. John Outland
J.E. Stubbs farming and oversee
N. plant
Multiwell type (6)

16” H.C. American double suction
Tapped properly 1/2” for test

Valve - disch. increases to 14”
800’ ± long, Can meas disch

40HP W.H. motor

100 A irrigated in 1928
Dr. John Outland
S. Plant
Multiwell type & wells connected suction

Pump Lea Courtney, 12" double suction for head of (plate data)
31' 3150 g.p.m.

Tap on suction none on pressure. Abt 200' pipe.

W H 40 HP motor

Can meas. water join E. with weir.
Disch air at 40 m.

136 A irrigated
San Luis Valley

Topo map House Doc. 171
61st Cong. shows artesian wells. W.S.P. 240

Soil Survey in 1903
Cir. # 52

Mossburg

8-11-28

Pumps from drain ditch

Pump set on platform at edge of ditch. 6" American N.P. Fig E.
8" suction 6" discharge
Appears to pump about 2 feet.
Uses Fordson tractor for power
Appears to be working fine.
Suction draws air at 1 ft
Submergence Board stops
air holes in water.
5 1/2 miles N. of Monte Vista
NW ¼ Sec 5 39 N 8E

An attempt made here in cooperation with the Public Service Co. to put down a well and equip it. Mr. Maxwell local people seem to be engineering it. An 8 x 8 square, 6 feet deep, had been sunk about 12 feet and they could get no further. 2 x 6's were then set up as piling and driven with double jack. They forced so tight that they could barely get a rubber without getting clogged. The material under 2 feet of top soil is good gravel up to 3 inches in size and should be a good water producing cap. Maxwell started up pump and I judged the total pumping time was about 15-20 min. to pump out five feet of water. Pumping stoped once my opinion was that the gravel stop not producing the way it should. Water stand at top of well and hole is 7 feet deep. Water will need 5-6 by Dec. Advised them to wait till then and abandon present scheme for round cut of cone blocks as an alternative suggested also steel casing. They can slide it in at 40'. This is at W. edge of extreme well. Have 40' of header in direct cut to Wagner 7 1/2 DP single 4 motor for sinking.
E.L. Wrighton
NE 11 T6N R67W

Well Pumps from ditch
Byron Jackson 5" type S
700 G.P.M. 30' head
Drain plug on pressure -
None on suction
Ft Wayne 7 1/2 HP motor
Pipe line 600' long
Can meas. water OK.

Alec Martin
S.E. 4 Sec 6 T6N R67W
Pumps from seepage lake
6" V.C. pump
Driven by Moline tractor (3 yrs
Uses 159 gal. gas in 13 hrs @ 9750 ft
13' lift thru 200' of pipe
Several leaks in pipe line
Do not consider for test

Chas Nixon
Christ Fetdy
Crist Felte
NE 4 Sec 7 T 6 N R 67 W
Pumps from ditch

5" H.C. pump belt driven

Dempster 10 HP gaso. engine
13 season for engine (8 yrs head)
Uses 0.1 little over 1 gal p. hr.
Needs over hauling.
Irrigates 55-60 A.
Felte not enthusiastic for cooperation -
Do not consider for test

Chas Nixon
SE 4 Sec 7 T 6 N R 67 W
pumps from ditch

6" H.C. American
Leaky pipe line
Tractor driven

Lots of leaks in line
No good for test.
Plant used to be electric
T. Farnworth
NE 4 Sec 6 T6N R 67W
Pumps from lake

American 5" or 6" double suction HC quite new 9 yrs old

Cushman 2 cyl. 20 HP vertical engine

1/2" tap for pressure

Son-in-law operates plant.
T.F. glad to arrange for test and cooperate. Test for 9-3-28

Greeley
NW 4 Sec. 11 T5N R 66W
6" type S Byron Jackson pump. Motor removed

Had pumped from slough. Washed out dam in slough

Ferguson (Weld Co. Sav. Bank)
S.W. 4 Sec 31 T6N R 66W
Pumps from pit well

Hill Pump 6" DS
Taps both sides

Crocker Wheeler 5 HP motor
New plant. Wiring OK.
Herman Becker
S.E. Sec 36 T6N R 67W.
Pumps from lake
6" H.C. American S.S. notaps
Gate valve
201P Crocker Wheeler
10 riv. steel disch line - various
lifts
Irr. 130A, can meas water I
think on low lift
Did not see Becker - call another
time

W.T. Lowe
SW 1/4 Sec 31 T6N R. 66W
Pumps from detel
American H.C. 8" S.S.
Gate valve and 300' of pipe to
1st outlet. Abt 6' of suction lift.
Tapped for pressure. Can meas
water
Motor WH 15TP
Working O.K. Looks like good
plant to test

Lowe's son says lightning hit plant
this summer and burned out
3" cells. Not up to full eff.
See this plant in 1929
8.28.28 SE 4 Sec. 3 T5N R 66 W
Ditch plant dis mantled
9-7-28  Chas Evans  
N.E. Sec. 21  Pitcher T7 N R68 W

Pit well abt 12' dia. with smaller pit in bottom. Conc. blocks. @ 
Water while pp9 stand abt 20' from ground surf. 3' extra lift

V.C. pump about 5" (est) 10' disch. 
Shaft vibrates. Water draws down to bottom and pump sucks air. No way to throttle.

10HP Wagner motor, belt drive 
Can meas. water 
Poor wiring

Do not consider for test

Chas Evans  
N E 4 Sec 21  Pitcher

Duplicate of above plant except 20HP G.E. motor.

Well is abt 500' E. of above 
Pump takes in air - Discharge fluctuates

Do not consider for test
9-7-28  E. L. Pitcher  
NW 4 Sec 22 T 7 N R 68 W  

6.80 to W. S. top of 2x6 E  
side 3 pencil marks  

Well is brick abt 6' dia.  
10 syphon wells 25' deep all  
open  
6" American H.C. belt driver  
1/4 mile discharge line.  

15 H.P. W.H. motor.  
Standby for 160A used very  
little except dry years  
Used for garden & lawn  

Chas. Evans  
5 E 4 Sec 21  

Well large dia. conc. blocks  
V.C. pump  
Tractor power when used.  
Is used very little  
Poor looking plant  
Do not consider for test
Pumps from lake

2 stage 6" H.C. American pump
30 HP WH motor 2200V

Plant is all apart. Old equipment but looks as if never used here

Pumps from lake

NE Sec 25 T7N R68W
5" H.C. Hill pump belt driven. Used to be direct conn.
15 TP Ft. Wayne motor 2200V

Does not appear to have been used this season

Poor layout

Not connected
Senator Nate Warren  
N.E.4 24 T 7 N R 68 W  
Plant Not used, Pipe line plugged. (Information from neighbor)  
Pumped from lake

Kaffie Deering  
S E.4 Sec 19 T 7 N R 67 W  
Pumps from lake
American 6" 2 stage H.C. pump
G.E. motor 25 HP 2200 V

Allen & Downer  
N E.4 Sec 19 T 7 N R 67 W  
Pumps from lake
8" Hill H.C. belt driven
15 HP Crocker-Wheeler

Appears not to be used this season - No meter
John Comer  
NW 4 Sec 16  T6N R67W  
Pumps from drain

6" Hill D.S. motor with taps  
15TP Crocker Wheeler motor  
Irrigates 80 A

J. Winter farming for Comer. He owns new Dempster V.C. pump across the road. Well does not produce enough now. Plans to deepen.

Will farm next year

Mrs. Anna Klegg  
NW 4 Sec 16  G6 N 67W  
Geo. F. Kern overseer  
E.G. Stone metz. farming

Pumps from battery of 6 wells  
1, 4' x 10 12"  25' deep  
6" HC pipe connected sections  
10TP WH motor  
Drain water enters main well  
No good for test
Sugar Co.
NE 4 Sec 27 T6 N R67 W
Pumps from drain ditch
Two pumps belt driven
8" H.C. pumping very small quantity
Old type Make?
$Motor 10 HP Ft Wayne

8" H.C. American
Motor Crocker Wheeler 10 HP
Total lift about 8'

Poor stocking layout

Hickman
NE Sec 20 T6 N R67 W
Pumps from ditch

4" H.C. pump belted to Moline tractor temporarily. Motor burned out in summer.
SW\&Sec17 T6N R67W
Timber pit well 5' x 30'
Pump about 4". Hill, H.C.
5" discharge belt connected
10 TP Allis-Chalmers
Can measure water & drawdown
Everything outdoors
New 24" well line

"Every thing outdoors. People German
in one.
Pumps 2 lifts, can meas. water
1 hp F.M. Co engine type NB
4 tp H.C. American
Pumps from drain tile
Budget Sec15 Ten R67W
9-7-28  Henry Kraus  
S.E. 4  Sec. 17, T6N R 67W  
Pumps from well square timber pit.

Pump Dayton-Dowd Co. 5" H.C. double suction 2 sets of taps

Crocker Wheeler 10P
Test arranged Aug 13 Sept. 10

9-10-28  Fred Stoll  
NW 4  Sec. 20  6N 67W  
Timber pit well  
5" H.C. Worthington  
Fordson tractor - belt drive  
Can meas water
9-10-28  Adam Keil  SW 4 Sec 20  6N 67W  Pumps from ditch 5" H.C. American Fordson tractor belt drive 100 A incl. 20 A pasture irrigated by plant. Lift about 8 to 10 feet. Can meas. water I think.

9-11-28  John Kaiser  SE 4 Sec 29  T 6N R 67W  Pump from ditch 5" H.C. Worthington 15 HP G.E. Motor 2200 volts enuf said 7/15/17
9-13-28  Mike Altergott
SW 4 Sec 18 6N 67W
Pumps from well & drain
thru 300' of pipe
6" H.C. pump
10 or 15 HP motor (W.H) name plate gone
Looks like very small amount of water for pump & power.

Ft. Collins Area.

9-18-28
SE 4 Sec 32 8N 69W
Pumps from drain pipe in sump.
7" H.C. pump
10 HP Ft. Wayne direct conn.
Pumps two ways thru long pipe line.
Water can be meas at end of S. branch.
C.A. Bartels
NE 4 Sec 28 T8N R68W
Pumps from 8 wells
Pump. Union Steam Pump Co.
Platedata- 2500 gpm. 600 R.P.M.
Head 30 ft. 10" discharge
Suctions connected
Crocker-Wheeler motor 30 H.P.
Irrigates 225 A. of 320 A. farm
but also has ditch water

SE 4 Sec 16 T8N R68W
Disconnected
Pumped from drain
4" V.C. pump. Not used for
some time
House locked
Fitzpatrick
N.W. 4 Sec 22 BN 68 W
Pumps from 5 wells, connected
suctions
6" Gould H.C. in pit belt driven
15 HP WH motor
Can irrigate 100 A
Not used in 1928

John Galt
SE 4 Sec 33 T 8 N R 68 W
9-18-28

C.A. Bartles
J.J. Dienes farming
N E 4 Sec 4

Pumps from 8 wells

Pump 8" H.C. American belt
driven

Pumps into stand pipe and
takes out of pipe line at 4
places.

Wells are not all accessible

30 HP Crocker Wheeler motor

Would have to use 3' weir in
narrow ditch 200'E. of 1st box E.
Too many outlets

Poudre Valley Bank
NW 4 Sec 10

Pumps from ditch

6" Fountain H.C. pump (Denver)
belt connected. Discharge
pipe up in air about 300' long

10 HP WH motor

Can meas water
9-18-28
6W4 Sec 3 T7N R 68W
Pumps from 6 wells parallel
to Box Elder Cr. some closed

4" American H.C. pump belt
connected. Pumps into stand pipe
10TP Crocker-Wheeler motor

Drake Estate NW SW sec 10
Bartels admis.
Stuckert farming
Pumps from 1/2 wells
10" Hill H.C. pump side suction
25TP Crocker-Wheeler
Takes water 1/2 mi S to
N.E. "16
9-18-28

Spencer NE 4-5W 4 Sec. 10

Multiwell type (6) 36' deep

6" H.C. Dempster pump belt connected. Connected suction.

15 HP Crocker-Wheeler motor
Pumps into ditch
Disconnected

C Miller SE 4-5 Sec 9

Pumps from wells 18' deep

6" American H.C pump belt driven

Crocker Wheeler motor 20 HP
Pumps into ditch can meas water
Belt gone

Said to be a good plant
Keep in mind for spring
9-18-28
C.G. Rudolph
NW 4 Sec 15 T 7 N R 68 W
Pumps from two dug wells

6" Vert. Cent. American pump

Pumps thru 1000' ot pipe

No motor now - traded off
will have one next spring

9-17-28
Tom Pulesom
SW 4 Sec 28 9 N 68 W
Gaso. Tractor plant and
5" K.C. pump. Mr. P showed
us plant said he intended
changing equipment next
spring. Pumps from well
which is a good one he
says
A.L. Seemans  
SW 4 Sec 27 8N R48W  
Pumps from two dog wells  
8' in dia. 25½' deep. Brick curb  
6'' H.C. Dempster pump belt driven.  
Driven by tractor  
Total cost $1330 exclusive of tractor. Plant put in this spring  
First opportunity to test week after next  

Geo. Stuckert  
S.E. 4 Sec 4 8N 68W  
Pumps from two wells (good)  
6'' Dempster H.C. pump  
Uses Fordson for power. Plans electric power for 1929
A.L. Bee
SW 1/4 Sec 10 T 8 N R 68 W
Pumps from pit well, conc.
bloks.
5" V.C. pump
12TP Olds engine
Not interested now. May write in.
Tested Oct 13 1928

Mar 9 1929 8:08
Near BRUSH

E.L. Townsend - Denver
SE* Sec 1 T2 N R5C W

Pumps from 11 wells 12” 30’d deep
5” H.C. Pump belt driven

Use old tractor. Is now out of commission but tenant hopes it will be repaired soon for irrigation yet to be done.

House contains discarded 15 HP H.C. engine claimed too small.

Tenant says an entirely new outfit to be installed this winter.

O. Ayers
NE* Sec 12 R2 N R5C W

Pumps from 5 wells
6” H.C. pump belt driven ½ turn in belt. Fairbanks Morse

20 HP Fairbanks Morse type Y burning kerosene.

Would like to have test but has to consult man who is buying water. Let me know Sat.
Roy Knowles
S.E. Sec 12 SW
Pumps from wells
Some new work just done
on pit.
Old pump + engine, a long
ways from ready to run.

Lon Felkey
O.K. Masters farming
SW 4 Sec 18 2 N 5 SW
Pump running today
Pumps from 13 wells 12”
20 ft to 32’ deep
7” H.C. pump belt driven
20 HP Fairbanks Morse type N
engine. Burns distillate@ 118
per gal. Engine works fine.
Discharge into conc. box and
long “burro” ditch on flat grade.
E and a possible measuring ditch.
W. Suction pipe is gal. sheet
iron too thin to tap.
RM Wetzel barger

N E 4 Sec 24 2 N 56 W

Pumps from 8 - 12" wells
gesp 6 to 52' deep to shale
25' apart
9' to water and quick sand
which is 8 - 14' thick. Gravel
at bottom fine to pigeon
eggs.

6" H.C. pump belt connected
American
20HP Stover engine. Rings
leak badly

Also near by 4" H.C. American
 driven by Fordson.
Used occasionally to water
around house. One well - 8".

Large plant having trouble
with pump - quits pumping
every hour or so and picks
up of its own accord. Fuel
is distillate which is mixed
with the west plant with
no way of telling how much
each fam uses.

Can meas. water N. by setting
flume low.
Wetz barger
West plant
NW 1/4 Sec 24 T2N R56W
Pumps from 8 wells

7" H.C.F. Morse pump
Stover 25HP hothead engine
These pump continually loses its suction
Good cement block shelter
Might be able to meas. water going N.

H.L. Albers
SE 1/4 Sec 24 T2N R56W
Pumps from 7 12" wells
6" H.C. pump belt driven
25HP FM type Y engine
Can. meas. water going N.
L & A Peterson Bros
SW 4 Sec 30 T 2 N 55 W
West plant
3 16" Wells 60" deep

Water stands today at 1.28' below top of casing in middle well

6" H.C. Gould pump in 12" dia. brick pit.

Driven by tractor "McCormich Deering"

East plant

Wells 8 20 to 40' apart 12"

6" H.C. Krogh

15 HP F.M. engine, old, on wheels

Discharges into pond
A. Kreyeveyer
SE 4 Sec 19 Tc N R 55W
9-12" wells

Pump 6" H.C. Krogh

Engine 15F.F.M. type Z

Pumps on two lifts. Pump would have to be tapped for pressure. Suction pipe is riveted G.I. but has 1/2" pipe (nipple) for hose connection.

P.M. Lewis

6- wells

N W4 24 1 N S 6 W

Test data
Fred. Von Gundy
2 mi west of Logan

Pumps from 17 wells 12" with gravel screens. Not used for 4 years and when last tried did not yield near so well.

1913
8" H.C. pump. F.M.

35HP Tractor engine

Wells 20' deep and bothered by quick sand. Put down 12 years
Did not see plant
2' to water

Jake Amens
1 mi west of Logan
Multi well type 16 wells

On Panama C. 12" 45' deep
9' twister
6" H.C. Worthington

Operated with tractor - removed everything in open

3 weeks steady pumping 1929

Ed Goodnick drill

Thompson
Frank Morrison

Pump from drainage ditch
8" H.C. American
10TP Wagner motor belt connected.
Pump placed too high.

Pete Triblehorn
1/4mi N. of Ackerton

Pumps from 3 wells spaced about 25', 90' deep all
8" 2000 5pm pump. H.C. American Elec. Light & Power Co. Denver

30TP 4cyl. engine direct conn. on same base. Has broken block. Case tractor being used temporarily

Guess it was pp9 2½ s-f.
W.A. Hopkins, state
Pres. Farmers-National Bank
Brighton
SE 1/4 Sec. 33 T 8 N 58 W
NE 1/4 Sec 4 T 8
Between Atwood & Morris
Pumps from 2 wells 12" 80' deep

American 8" H.C. pump
F.M. Co 25 HP engine type N
John B. Hessler renter

Carl Wacker, Hillrose
Well 100' deep
8" American H.C.
20 HP Wagner motor
Oct. 4 1928

Windsor Security Co.
Pumps from 16" well, 60' deep
8" H.C. pump looks like Worthington
20HP Westinghouse motor
Irrigates 120A
Farmed by O. Wengel

Windsor Security Co
under supervision of Mr. Hickman

15" well
7" H.C. F.M. Co. pump
20HP Westinghouse motor
No place for suction tap.
Probably cannot measure water
north

Water level 1.89' below top
of casing, which is 4.52' feet
below G.S.
Slater
1/4 mi. S. of Hillrose
One well, pit not curved
6" H.C. pump
Driven by tractor not in place.
No shelter

5th M. Raugh
SW ¼ SE) Sec 23 3N 56W
Several wells about 14"
5" H.C. American connected
sections
Fordson tractor
Pumps thru about 100' of pipe
Looks as if creek water can
be taken into well.
Oct 4 1928

Richard + Mitchell
NE 4 Sec 14 3 N 56 W

10 HP engine
ORR Bucket pump
Pumps from ditch. Lift 5 to 6 ft.

Lillian McCurdy
NE 4 Sec 25 3 N 56 W

Abandoned small plant
No one living on place
Oct 9, 1928

Dan Reagan

about 1 mile N. of Sherwin
pumps from ditch

Shelter locked up. Looks like Hill 8" pump. H.C. 2300 volts

Oscar Chenars

Has plant near south end of bridge at Cliff. Lives at
414 Jackson St. Stirling. Does not care much about test and
has drained pump. If needed this plant might be
tested. Rented. Locked up.

Two pyphen wells.
Electric driver

Peter Koenig
near High School

10" well

3" H.C. Dempster

5 T.P. single of Westinghouse

10 - 20 - fine sand & small gravel
20 - 70 - black quick sand
Oct 4 1928

S.W. Wylie
SW 1/4 Sec 25, SE N 56 W
V.G. pump in pit.
Morse Bros Steam engine
Vertical boiler
Plant has not been used for many years

C.M. Newman
422 Grant 7t. Morgan

Well 105' deep
8" Marsh American H.C.
30 HP G.E. Motor
Irrigates about 100 A
Put in 1927

W.S. Lowe
About three miles W
of Brush on main highway
has plant seldom used.
Used in dry year not 1927-28

37 1/2 HP F.M. Co type Y
V.G. 6" pump
Did not see plant. Saw young Lowe
Note - Some plants heard about and not visited. Engine driven.

1. From highway bet. Brush + Sterling Go N. on county line 1 mi. - ½ mi. west on N. side road.

2. From 1 Go east to 1st turn No., to first turn then E on No. side of road.

3. Near Proctor (N.E. of Sterling)

4. S. side of River near Ford near bridge
Oct. 18, 1918

South from St. Collins
J. Simpson
All in N.E. Sec. 36 T 6 N R 69 W

1. Plant
   Pumps from ditch
   4" F.M. Co. H.C. direct conn to 5 HP F.M. Co. motor
   4" x 6" discharge 100' long
   Total head 9' or 10'
   Would have to work on ditch to meas water. Not taps on Pump.

2. Plant
   Pumps from ditch
   6" F.M. Co. H.C. direct conn to 10 HP F.M. Co. motor
   No taps on pump.
   Pump water two directions

3. Plant
   Pumps from ditch
   5" F.M. Co. H.C. direct conn. to F.M. Co. 10 HP motor
   7" discharge line about 400' long. Can meas water by repairing ditch.
# 4 Pumps from ditch
5" F.M. Co H.C. direct conn
to F.M. Co. 15-HP motor.

Pumps thru long lines in
two directions.

Note - Plant is 1 + 3 test for test
but least used

Naylor (likes in Loveland)
N. W. Sec 10 T 5 S N 69 W

Pumps from ditch

7" H.C. double suction
Byron Jackson

15 HP Ft Wayne

Drain plugs

Looks good for test

Crites Bros - Boulder
Olsen farming

5W 4 Sec 4 T 5 S N 68 W

Pumps from lake (Houts Res.)

2 Pumps 1-8" H.C. BS +
1-6" H.C. BS

Belt driven by moving
Motor over
Motor 25 HP G.E.

2300 V

Pumps thru 800 ft line to
small conc. Reservoir. Lift 25'
Martin Farrell

Pumps from lake (N. of Crites plant 100')
Byron Jackson 7" H.C. belt conn to 25 HP G.E. motor 2300 volts

Pumps thru long pipe line with several outlets

N. Rooster
S.E. Sec 5 T5N, R. 68 W
Pumps from lake (Boyd's)
7" H.C. Hill pump double suction direct conn. Has ½" taps
25 HP Crocker-Wheeler
Small pump house on skids insecure. Poor wiring
Long 14" pipe line
No meter
Suction disconnected for winter
600 A ? Used a great deal

Since R. was not at home believe that in Spring he will interview for test
Oct. 18, 1928

Pau Resler
SE 1/4 Sec. 5 T5N R68W
Pumps from lake (Boyds)
2" H.C. pump direct conn. to
5 HP W.H. motor.
No meter
3" discharge pipe 300-400' long

McCoy
SW 1/4 Sec. 10 T5N R68W
Pumps from drainage slough
5" H.C. Hayton (Quincy Ill)
double suction
Crowther Wheeler 15 HP motor
direct conn.
Can't see where line goes - very
long.
No meter - Does not look as if
used this year - 40 or 5 yrs

T0814 1st
Oct. 22

F. Ackerman
S.E. "Sec 14 6N 69W"

Pumps from ditch thru 8" line 6 on 800' long with several outlets.
160 A.
4" American H.C.
Tractor driven
No shelter

Oaty & D.D. Kessler
NW "Sec 1 4N 69W"
Pumps from ditch
Two lifts
6" SS H.C. American pump
25HP GE motor
Bolt driven

Has tractor plant too
Hankins
N.E. 4 Sec 2 4N 69W

Pumps from ditch thru pipe line with 2 lifts
8½" V.C. Boggs & Clarke pump
Belt driven
10HP GE motor
45A

S.E. 4 Sec 35 3N69W nr center section
Pumps from ditch
7" Byron Jackson HC
20HP GE Motor
Lift to end of 900' pipe line about 35-40'. Two other outlets

Dr. J. Andrews (Beetcher)
N.E. 4 Sec 23 3N 69W
Pumps ditch water. Has not been used for several years.
V.C. pump
10HP Westinghouse motor
Oct. 22 1928

Fairburn
SW 4 Sec 86 4N 69W

Pumps from ditch thru 500' of line on about 30' total lift

6" H.C Krogh belt driven
20HP Wagner motor

Not used 1928

SE 4 Sec 24 5N 69W

Pumps from ditch thru long pipe line

5" H.C. American pump direct connected to
Automobile engine

This plant at foot of hill at E. side of pavement.
Did not hunt for owner
Oct 23

D. T. Pulliam
Ben Gregg farming
5E Sec 12 T 5 N R 69 W
Pumps from lake on orchard
9 1/2 A cherries Line about 1000' long.
3" F.M. Co H.C. pump
7 1/2 P.Ft. Wayne motor
Belt driven
Test in spring

A Wilde
Near Plaster Mill W ofLoveland

Pumps from ditch on apple orchard Pipe line abt 400' long
United Iron Wks Pump 3" 2 stage side suction Discharge to suction direct.
15P GE Motor Belt drive
Uses motor & transformers in winter at cider mill.
Used 1928 not 1927
Ed. Mark am NW 4 Sec 4 3N 68W
Pumps from ditch thru long pipe line

6" H.C. American belt driven has tap in suction el. None in discharge.

20 HP Crocker Wheeler motor

Pumps from ditch NW Sec 3 3N 68W

5" H.C. American pump, belt driven.

7½ HP G.E. motor

6-7' lift.

Burro ditch - don't think water can be meas. Close to plant
Oct 23

Stickney Investment Co
SE 4 Sec 13 3 N 68 W
Pumps from lake thru
long pipe lines to about
three outlets on about 1600 A
8" H.C. F.M. Co Pump SS.
50 HP W.H. motor 220V
Leather belt.

K, C & P
N.W. 4 sec 5 T 2 N R 68 W
Pumps from lake. 12"
discharge line about 1/4 mi long
with 5 outlets
8" Byron Jackson Type S pump
G.E. Motor has no name plate
is 440V and looks about 30 or 40 HP
Blackwell, Empson
near W 1/4 Cor Sec 23 T 2 N R 69 W
Pumps from ditch 14" pipe line

8" H.C. American pump SS
Belt Motor 7 1/2 HP Westinghouse 220 volt
direct conn.
Good job here

Mr. T. W. Potter
Empson, Kump Co.
Longmont, Colo

Plant at Spring

West one of 2 plants in Sec 23 NW 1/4
T 2 N R 69 W
Pumps from ditch through line about 400' long lift 20'?

5" B-Jackson S.S. pump
10 HP Westinghouse
direct conn.
Looks like just one outlet
East one of 4 plants in Sec 23 NW ¼

Pumps from ditch thro long pipe line
Pump house locked up.
Has about 6" H.C. direct conn. to about 15 HP motor

Ihnen
lives 1st farm N of Lakeview school house
NW 4 Sec 6 4 N 68 W
Has auto engine & H.C. pump
Pumps from ditch
Clint Murphy  
SE 4 Sec 6 T4 N R68 W

Pumps from reservoir thru 1200' long pipe line at three lifts  
Highest lift 53'

7" H.C. American pump. Disch line is 16" Belt driven

Engine - Wisconsin "Climax" tractor engine 60 HP. Uses about 3 gal. per hour fuel

Pumps on 770 A of own and 90 A for R. Peterson
20 A " D. "
35 A " G. Webber
12 A " Henderson
6 A " C. Stroh

Will start in May

C. Liebsack  
NE 4 Sec 7

Pumps from ditch  
6" FM Co pump H.C.
Driven by tractor
No shelter
Pipe line 1000' long 2 or more outlets
40 A
F.M. Wagner
SW 4, Sec 17 4S 68W
Pumps from ditch on 57A
Pipe line 600' long, two outlets
Total lift about 20'
7" H.C. American
Tractor driven

O.N. Hendershot
S.E. Sec 3 4N 68W
Pumps from ditch thru 800' of 12" line. Two or more 3 outlets.
6" H.C. American pump
Tractor drive Fordson
40 A irrigated

Abe Willis
NW 4, Sec 22 T4 N R 67W
Pumps from slough
6" F.M. Co H.C. pump direct
Conn. to
30 P F.M. Co. Motor
180 A irrigated
One outlet
Test for Spring
Oct 24  Abé Willis

Pumps from slough

5" H.C. American-March direct conn. to auto-engine
Used a great deal

M.E. McMillen
NW  5 Sec 17  4N 66W

Donald McM. student Soph

Pumps from 48" well 25'-30' deep.

4" H.C. American pump driven by Fordson Pump set about 8' above W.S.
Pressure lift 4'
C. H. Chase  Greeley
S.W. 4 Sec. 9  4N 66W

14' Conc. pit with 3 wells drilled in bottom. Wells are direct conn. to pump.

7" H.C. Bean pump direct conn. to Fordson engine on same base.

Water level is 4.76' below top of long T beams.

WR Drake
S.W. 4 Sec. 15 T 4 N R 66 W

Pumps from 2 wells in bottom of 10' brick and conc. pit. 18' deep.

8" H.C. Jackson pump.

Motor -? about 25 HP

80 A.

Rents
Oct 25

Parker
SE4 Sec 12 4N 66W

12" drilled well 86' deep

10" Bean turbine set over casing on concrete sealing off tight

U.S. 15HP Motor

Excellent wiring
Plant ready to run in 8 days after drilling started

Oct 26

James Noel
SW 4 Sec 18 T4 N R 65W

Two wells, main 70', 2nd same

6" H.C. Bean pump direct connection

20HP motor G.E.

Wells do not yield enough water has to throttle with gate valve to prevent breaking suction
Root Bros  
S.E. Sec 18 4N 65W  
Large pit (conc) well  
3 syphon wells 10″  
4½' of gravel, poor supply  
4″ V.C. F.M. Co  
Tractor driven  
Has done considerable well prospecting  

#4  P.W. Allen  
S.E. Sec 21  T4N R66W  
Drilled well  

Pump: 12″ Bean Turbine set tight down on top of casing  
20TP F.M. Co motor  
All in open  
Poor wiring - open knife switch with no fuses for starting
Miss E.R. Bailey
NW 4 Sec 21 T 4 N R 66 W

Wells - Pit about 12' in dia has 4 drilled wells in bottom. One well in small pit 20' E. Pits are of concrete.

Pump Allis-Chalmers double suction 6" 1350 gpm against 36' head. Bronz shaft.

Motor Allis-Chalmers 15HP

First class plant primes by power rotary pump.

Water probably can be measured.

---

#7 McCleod Bros
Gilcrest Ph 22 W
SW 4 Sec 29

Pumps from 6 wells
10" Allis-Chalmers pump
50 T.P. A-C. motor
#3
Nessen Bros
NW 4 Sec 32 T 4 N R 46 W
Multi well type - connected
suctions
6" H.C. Bean in pit.
25 HP F.M. Co motor direct
conn.
This well across road from
McCleod Bros.

Near Farmers Spur
Jan 10 1929
Pit well

4" double suction H.C. Buffalo
pump direct conn.
10 HP Crocker Wheeler motor
Pumps thru long pipe line
Does not look much used

Von Trotz

Pit well

4" H.C. pump belt driven
5 HP Crocker Wheeler
Plant in bad shape. Does not
look as if used
Rika Anderson
Shallow pit well - vertical planking - About 10' square

3" H.C American pump, belt driven
5 HP Crocker-Wheeler motor.
Pumps thru long pipe line about 6".
Plans on new installation 1929
Magic Williams
Dec 25 7N 49W
not hooked up 1928

181 plants in this book
Pt Rupert Pur rate

1st 200 - 6½ c

mit 500 .4½ 24

" 4300 6

" 10000 2.8

} per month

Min. $1 for 1st 1000 & 50c for each per mo.

On 5 consecutive months

Send weir

Alden Johnson

Gilcrest Box 372

Davenport

C. Meador 6 mi N. 3 mi W

1st N. 1 E

Empson

1st house N side road after crossing R.R. Motor

3 mi S - E

Ruthland

Jendushton 1/2 mi E & 2 N.

C. Murschat 2 mi E & 3 N.

1st N. of lake C. Strock

Con. L @ Isbach

A. Abrams

Elwell (Yani W.)

near Johnstown
Richard & Mitchell NE 24 3-56
S.W. Wylie SW 35 3-56 steam
Lillian McCurdy NE 25 3-56
S.R. Raugh SW 23 3-56

Call on L.M. Scott
312 26th Ave
P.O. Morgan, Colo
Ing 140 a. Sand for a pump.

Fred Ackerman
3mi. W of Denver
and the construction place
Pafant up the north line on E side
of roads.

Campion
October 25
E.A. Kessler
EA. Hankins 15-
Burrell
Vroman S.C. E N t W of Vroman

1/2 mi. SW
1/2 mi. S

Catlin ditch

No. La Juanta Gardens
Cross on W. bridge to 2nd road
N and go W 1/2 or 1 1/2 mi. and
then then to H. Lyons ditch.
On E side ditch. This is
Goodners new centrifugal set
in open pit

Adecock
H. Menick

H.E. Albrant of Ft. Collins puts down
8 ft. walls of brick for 90 a foot
including conc. work
1315 Myrtle St.
834 E Myrtle

McClura

525 P. Papant

21.00
7.00

Baums