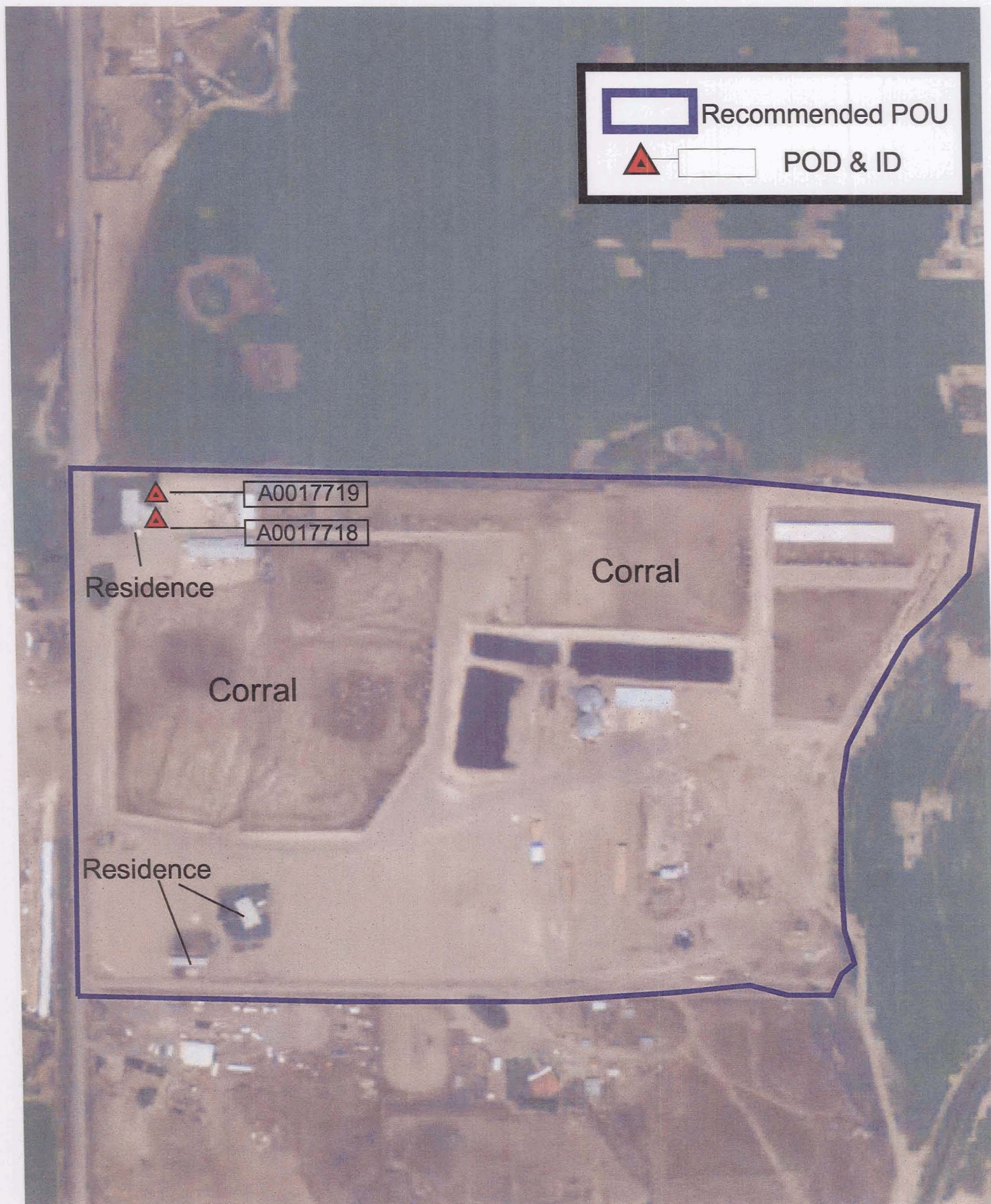


[illegible]

36-8735

9S 17 E 3 SWNW

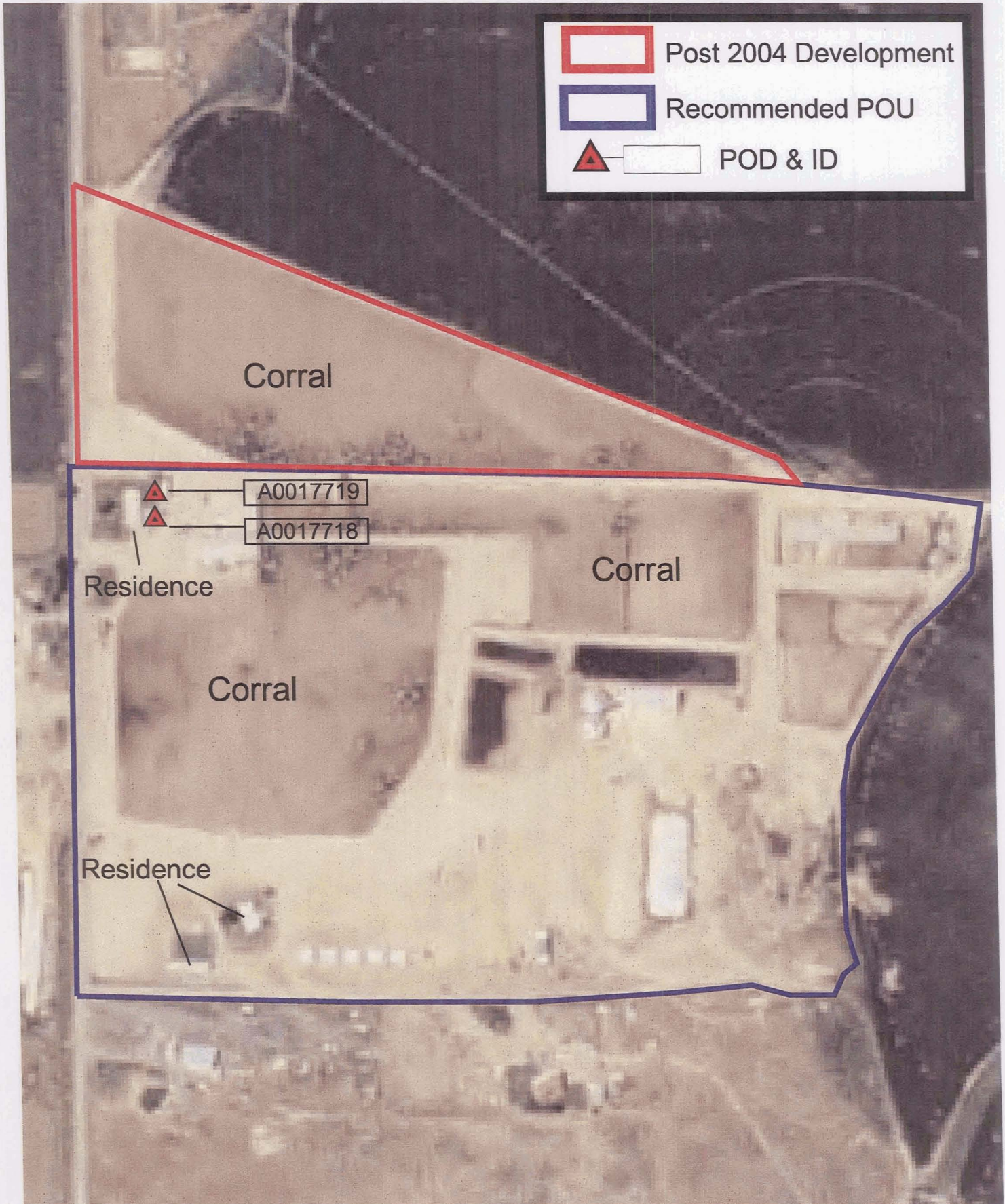
2004 NAIP Aerial Photograph - Showing Original POU

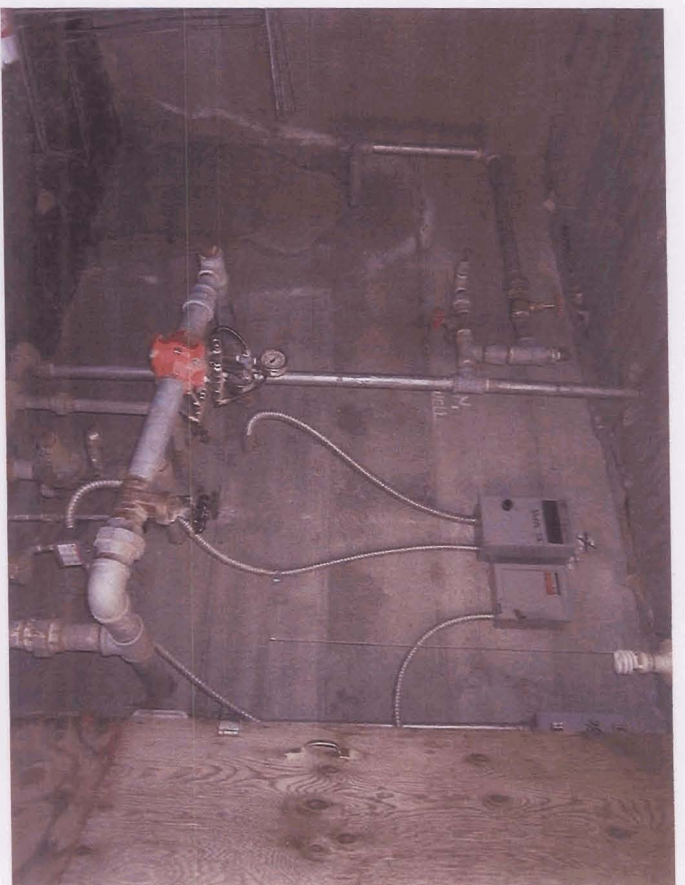


36-8735

9S 17 E 3 SWNW

2006 NAIP Aerial Photograph - Showing Recent Development





G & G Recommendation

9S 17E 3 SWNW

36-8735

Method of Determination:

3. ☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☐ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
A0017718	Subm.	7.5			
A0017719	Subm.	7.5			

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
FUJI	Sonic	Fuji		240332		4/2007

2. Measurements: Using polysonic flow meter, took a flow reading on the incoming line from North Well. Took additional flow readings on outgoing line to barn, and outgoing line to corral stock tanks. Determined that south well was not running. From these measurements estimated a discharge from the North well. South well discharge should be similar, as the same size pump is installed in both wells, and the wells are similar in total depth and static water level.

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Measured Method:

Polysonic flow meter: 24 gpm on North well incoming line
 9-12 gpm on line to stock tanks
 13-20 gpm on line to barn

North well: 24 gpm, .053 cfs
 South well (estimate) 24 gpm, .053 cfs

Total Discharge: 0.106 cfs

HP Equation: $\frac{7.5 \times 8.8 \times .7}{230 + (50 \times 2.31)} = 0.11 \text{ cfs}$ (0.22 for both wells)

Theoretical yield is higher than measured but would exceed permit rate limit for both wells anyway, limit rate to dairy spreadsheet recommendations.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$$

2. Volume Calculations for Other Uses:

See attached Dairy spreadsheet

System capacity volume: $0.11 \times 1.9835 \times 365 = 79.6 \text{ AF}$

G. NARRATIVE/REMARKS/COMMENTS

This permit was amended from an irrigation permit to this site to supplement right no. 36-8215, which provides .07 cfs and 11.6 acre-feet for domestic, stockwater and commercial purposes. Since permit 36-8735 was originally for irrigation, there is a volume limit of 26.5 acre-feet for development. In 1995 a second well was drilled under this permit, for a total of two points of diversion. During the exam, the owner indicated that approximately 600 cows were being milked in 1996, with 100 dry cows on the facility but no replacement heifers. The barn is the original facility and other than some additional corrals added pursuant to this permit there have been no major physical expansions until 2007, when corrals were built on a pivot corner in NWNW Sec 3. This pou is on the permit but this expansion cannot be recognized since it did not occur prior to proof filing. At some point some calf pens were added in SENW Sec 3, but this also occurred after proof filing. There is a pending transfer to add the second pod and the expanded pou to right no. 36-8215 and which may also bring in additional water. This permit is not included on the transfer and will not include the new pou in NWNW Sec 3.

The diversion system is two wells, plumbed together and then re-distributed through a common system of buried pipes to barns, homes, corrals and other on-site uses. The exact location of lines is unknown. At the time of the exam, only one well was in use.

Right nos. 36-14216 and 36-14219 are for two domestic uses in SWNW Sec 3 which do not physically overlap with this permit. NSCC shares used on adjacent irrigated lands.

There are three homes on the dairy which appear to be covered under 36-8215. There is no domestic component on this permit.

Measuring devices have not been installed. The approval of the pending transfer will require the installation of devices.

Have conditions of permit approval been met? ____Yes ____X____No

36-8735

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
COMMERCIAL	01/01 to 12/31	0.010 CFS	3.20 AF
STOCKWATER	01/01 to 12/31	0.070 CFS	24.10 AF
<u>Totals:</u>		0.080 CFS	26.50 AF

2. Recommended Amendments

___ Change P.D. as reflected above ___ Add P.D. as reflected above ☒ None

___ Change P.U. as reflected above ___ Add P.U. as reflected above ☒ Other

I. AUTHENTICATION

Field Examiner's Name *Sandra Smith* Date 5/24/07

Reviewer *C. J. Yenter* Date _____

FILE NUMBER ----- G&G 36-8735
REVIEWER ----- JJ

DAIRIES: WATER USE WORKSHEET

REQUIRED DAIRY DATA

NUMBER OF MILKING CATTLE ----- 700
NUMBER OF DRY CATTLE ----- 100
NUMBER OF REPLACEMENT CATTLE: 0-2 MONTHS ----- 0
 3-4 MONTHS ----- 0
 5-8 MONTHS ----- 0
 9-12 MONTHS ----- 0
 13-15 MONTHS ----- 0
 16-24 MONTHS ----- 0
ENTER 1 FOR MANUAL COW WASHING, 2 FOR AUTOMATIC, OR 3 IF
SPRINKLERS ARE USED TO FLUSH HOLDING PEN AND WASH COWS ----- 1
IF SPRINKLERS ARE USED: NUMBER OF SPRINKLERS IN HOLDING PEN ----- 0
 NOZZLE DISCHARGE (USE 5.0 GPM IF UNKNOWN) ----- 0.00
 OPERATION TIME OF SPRINKLERS (MIN/DAY) ----- 0
NUMBER OF MILKINGS PER DAY ----- 2
AVG. LBS. OF MILK PRODUCED PER DAY PER ANIMAL (IDAHO AVG IS 70 LBS.) ----- 70
HOURS PER DAY PUMP OPERATES FOR STOCKWATER USE ----- 12.0
HOURS PER DAY PUMP OPERATES FOR COMMERCIAL USE ----- 12.0
IS RECYCLED WATER USED TO FLUSH MILKHOUSE AND PARLOR FLOORS? ----- n
IS RECYCLED WATER USED TO WASH COWS? ----- N
IS A PLATE COOLER USED? ----- n
IS RECYCLED WATER USED FOR PLATE COOLER? (IF NO PLATE COOLER,
LEAVE BLANK) -----
IF CORRAL MISTERS ARE USED: NUMBER OF MISTERS IN HOLDING PEN -----
 NOZZLE DISCHARGE (GPM) -----
 OPERATION TIME OF MISTERS (MIN/DAY) -----
 DAYS PER YEAR MISTERS ARE USED -----

CALCULATIONS

DIVERSION RATE (CF3):

STOCKWATER
MILKING CATTLE (BASED ON MILK PRODUCTION) ----- 0.07
DRY CATTLE @ 17.0 GPD/HD ----- 0.01
REPLACEMENT CATTLE ----- 0.00
TOTAL ----- 0.07

COMMERCIAL
TOTAL ----- 0.01

TOTAL DIVERSION RATE ----- 0.08

DIVERSION VOLUME (AFA):

STOCKWATER
MILKING CATTLE ----- 22.6
DRY CATTLE ----- 1.5
REPLACEMENT CATTLE ----- 0.0
TOTAL ----- 24.1

COMMERCIAL
WASHING OF BULK TANK AND RELATED EQUIPMENT ----- 0.4
BACKFLUSH ----- 0.8
PARLOR/MILKHOUSE/HOLDING PEN CLEANUP ----- 2.0
CATTLE WASHING BASED UPON METHOD OF WASHING ----- 0.8
PLATE COOLER ----- 0.0
CORRAL MISTERS ----- 0.0
TOTAL ----- 3.2

TOTAL DIVERSION VOLUME ----- 27.3

CONSUMPTIVE USE VOLUME (AFA)(assuming 100% consumptive):

STOCKWATER ----- 24.1
COMMERCIAL ----- 3.2

TOTAL CONSUMPTIVE USE ----- 27.3

36-8735

A0017718 (S)

A0017719 (N.)

Pipe 1.90

W. thick .145

FLD12 spacing .927

24- gpm steady

North
well
IN

NEW
DISCHARGE
PIPE

Pipe OD 1.67

W. thick .138

FLD12 = .722

9-12 gpm variable
to stock tanks

Barn
Discharge
line

Pipe OD 2.38

W. thick 0.144

FLD12 = 1.283

13-20 gpm variable
to barn & stock tanks

Conclusion - one well pumps 24 gpm,
2nd well not running

Spatial North 385938

~~to~~ South 385940

G&G South Dairy 36-8735

5-10-07 Cyber/Jones

1996 500-600 milking
50-100 dry
no replacement

Now 900 milking
100-150 dry
Some heifers?

2 wells both in use at present
1-1976 1-1995 Both 7.5 HP (~~Southwell~~)
Southwell Northwell

3 residences - back to 1995

milk 2X

Scrape + hose washdown

dip ~~Scrape~~ to clean cows

no misters in corrals

Silo/bunk tank 2000 + 4000 clean 1X day

no plate cooler

Tian Andreason - purchasing

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

Use Typewriter
or
Ball Point Pen

1. DRILLING PERMIT NO. 36-95-S-0173-000
Other IDWR No. 36-087735

2. OWNER:
Name G + G Dairy
Address 328 S 300 E
City Jerome State ID Zip 83338

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N					
S					

Twp. 9 North ☐ or South ☒
Rge. 17 East ☒ or West ☐
Sec. 3 1/4 SW 1/4 NW 1/4
Gov't Lot _____ County Jerome 10 acres 40 acres 160 acres

Address of Well Site Jane 25 above -
City _____

(Give at least name of road + Distance to Road or Landmark)

Lt. _____ Blk. _____ Sub. Name _____

4. PROPOSED USE:

- ☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other Dairy

5. TYPE OF WORK

- ☒ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD

- ☒ Mud Rotary ☒ Air Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
<u>Pentecite</u>	<u>0</u>	<u>19</u>	<u>200 lb</u>		

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) _____
Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>8</u>	<u>1</u>	<u>18</u>	<u>25</u>	<u>Steel</u>	☒	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

- ☐ Perforations Method _____
☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

216 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: Well Cap

11. WELL TESTS:

- ☐ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>10</u>	<u>0</u>	<u>10</u>	<u>Top Soil</u>		
<u>10</u>	<u>10</u>	<u>13</u>	<u>LAUA</u>		
<u>8</u>	<u>13</u>	<u>41</u>	<u>Red + Bl LAUA</u>		
	<u>41</u>	<u>43</u>	<u>Bl LAUA</u>		
	<u>43</u>	<u>101</u>	<u>Med Hard Red + Bl LAUA</u>		
	<u>101</u>	<u>111</u>	<u>Bl LAUA</u>		
	<u>111</u>	<u>168</u>	<u>Crevasse No Returns</u>		
	<u>168</u>	<u>169</u>	<u>Hard</u>		
	<u>169</u>	<u>173</u>	<u>Crevasse</u>		
	<u>173</u>	<u>174</u>	<u>Hard</u>		
	<u>174</u>	<u>181</u>	<u>Broken</u>		
	<u>181</u>	<u>185</u>	<u>Hard</u>		
	<u>185</u>	<u>211</u>	<u>Soft Broken Cinders</u>		
	<u>211</u>	<u>214</u>	<u>Med Hard</u>		
	<u>214</u>	<u>217</u>	<u>Cinders</u>		X
	<u>217</u>	<u>219</u>	<u>Med Hard + Breaks</u>		
	<u>219</u>	<u>221</u>	<u>Hard</u>		
	<u>221</u>	<u>237</u>	<u>Cinders</u>		X
	<u>237</u>	<u>242</u>	<u>Med Hard</u>		
	<u>242</u>	<u>251</u>	<u>Hard</u>		
	<u>251</u>	<u>265</u>			

RECEIVED

DEC 13 1995

Department of Water Resources
Southern Region

Completed Depth 265 (Measurable)
Date: Started 11-14-95 Completed 11-15-95

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name Eaton Drilling Firm No. 26

Firm Official L. Melin Date 12-1-95

and Supervisor or Operator Dave Cook Date 12-1-95
(Sign once if Firm Official & Operator)

WELL DRILLER'S REPORT

DEC 12 1976

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

Department of Water Resources
Southern District Office

WELL OWNER

Name Lloyd Gulick
Address Rural Route, XXXXX Jerome
Owner's Permit No. _____

7. WATER LEVEL

Static water level 202 feet below land surface
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Temperature _____ ° F. Quality _____
Artesian closed-in pressure _____ p.s.i.
Controlled by ☐ Valve ☐ Cap ☐ Plug

8. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning) _____

8. WELL TEST DATA

None
☐ Pump ☐ Bailor ☐ Other
Discharge G.P.M. Draw Down Hours Pumped

9. PROPOSED USE

☒ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type) _____
☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection

9. LITHOLOGIC LOG

Hole Diam.	Depth		Material	Water	
	From	To		Yes	No
8	0	13	Top Soil		X
	13	15	Broken Gray Basalt w/top soil		
8/6	15	30	Hard Gray Basalt		
6	30	34	Hard Gray Basalt w/small breaks		
	34	36	Broken - Lost Return		
	36	39	Med Hard w/sm. breaks		
	39	41	Hard		
	41	52	Med Hard w/small breaks		
	52	54	Crevise		
	54	74	Hard		
	74	83	Med Hard w/small breaks		
	83	88	Hard		
	88	93	Hard w/large breaks		
	93	97	Hard		
	97	101	Hard w/small breaks		
	101	107	Hard		
	107	111	Hard w/small breaks		
	111	117	Hard		
	117	119	Hard w/small breaks		
	119	134	Hard		
	134	140	Hard w/small breaks		
	140	143	Med Hard w/large breaks		
	143	149	Hard w/small breaks		
	149	157	Hard w/large breaks		
	157	182	Hard		
	182	188	Med Hard w/large breaks		
	188	193	Hard w/small breaks		
	193	197	Hard		
	197	202	Med Hard w/small breaks		X
	202	209	Soft		
	209	214	Hard w/small breaks		X
	214	239	Hard w/large breaks		X

4. METHOD DRILLED

☐ Cable ☒ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 6 inches Total depth 239 feet
Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
<u>.250</u> inches	<u>6 5/8</u> inches	<u>1</u> feet	<u>201 1/2</u> feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was casing drive shoe used? ☐ Yes ☒ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation _____ inches by _____ inches

Number	From	To
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet

Well screen installed? ☐ Yes ☒ No
Manufacturer's name _____

Type _____ Model No. _____
Diameter _____ Slot size _____ Set from _____ feet to _____ feet
Diameter _____ Slot size _____ Set from _____ feet to _____ feet

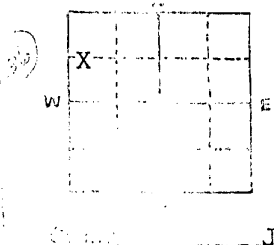
Gravel packed? ☐ Yes ☒ No Size of gravel _____
Placed from _____ feet to _____ feet

Surface seal depth 18 Material used in seal ☐ Cement grout
☒ Puddling clay ☐ Wall cuttings

Sealing procedure used ☐ Slurry pit ☐ Temporary surface casing
☒ Overbore to seal depth

6. LOCATION OF WELL

Sketch map location must agree with written location.

 Subdivision Name _____
Lot No. _____ Block No. _____
City _____ State _____ Zip _____

10.

Work started 12/4/76 finished 12/9/76

11. DRILLERS CERTIFICATION

Firm Name SMITH DRILLING & PUMP CO., INC Firm No. 11
Address 328 West Avenue A Date 12/14/76
Signed by (Firm Official) [Signature]
and
(Operator) [Signature]