

[illegible]

**PLACE OF USE:** DOMESTIC

| Twp | Rge | Sec | NE        |           |           |           | NW        |           |           |           | SW        |           |           |           | SE        |           |           |           | Totals |
|-----|-----|-----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|
|     |     |     | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> |        |
| 11S | 40E | 16  |           |           |           |           |           |           |           |           |           |           |           | X         |           |           |           |           |        |
| 11S | 40E | 20  |           |           |           |           |           | X         |           |           |           |           |           |           |           |           |           |           |        |

**PLACE OF USE:** IRRIGATION

| Twp | Rge | Sec | NE        |           |           |           | NW        |           |           |           | SW        |           |           |           | SE        |           |           |           | Totals |
|-----|-----|-----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|
|     |     |     | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> |        |
| 11S | 40E | 16  |           |           |           |           |           |           |           |           |           |           |           | .5        |           |           |           |           | .5     |
| 11S | 40E | 20  |           |           |           |           |           |           | .5        |           |           |           |           |           |           |           |           |           | .5     |

Total Acres: 1

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> |
|----------------------------------|-------------------|-----------|-------------------------|------------------|------------------------------------------|
| 700454                           | n/a               | n/a       | n/a                     | n/a              | n/a                                      |
|                                  |                   |           |                         |                  |                                          |
|                                  |                   |           |                         |                  |                                          |
|                                  |                   |           |                         |                  |                                          |

\*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> |
|------------------------------|-------------|-------------|------------------|-------------------|-------------|--------------------|
|                              |             |             |                  |                   |             |                    |
|                              |             |             |                  |                   |             |                    |

2. Measurements:

**E. FLOW CALCULATIONS**☐ Additional Computation Sheets Attached

Measured Method: Theoretical

 $Q_{\text{dom}}$  2 homes = 0.04 cfs $Q_{\text{stock}}$  400 cattle = 0.09 cfs $Q_{\text{irr}}$  1 acre = 0.03 cfs $Q_{\text{total}}$  = 0.09 cfs

**F. VOLUME CALCULATIONS**

## 1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1 \text{ acres} \times 3.5 \text{ afa/acre} = 3.5 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \text{ cfs} \times 214 \text{ days} \times 1.9835 = 12.7 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 3.5 \text{ afa}$$

## 2. Volume Calculations for Other Uses:

**G. NARRATIVE/REMARKS/COMMENTS**

The spring is tapped with 3-inch perforated pipe in a gravel bed. This feeds a 2 inch main line. A proposed home (domestic) with hookups is at 1/4 mile and a stock-watering trough is located at an end of a 1 1/2 PVC tap from the 2-inch main line. The 2-inch main line then goes down hill for approximately 1.3 miles to the main house on the system. The operating pressure at the lower home is 70 PSI. The home has less than 1/2 acre of lawn and a stock watering together.

Have conditions of permit approval been met? ☒ Yes ☐ No

**H. RECOMMENDATIONS**

## 1. Recommended Amounts

| <u>BENEFICIAL USE</u> | <u>PERIOD OF USE</u> | <u>DIVERSION RATE</u> | <u>ANNUAL VOLUME</u> |
|-----------------------|----------------------|-----------------------|----------------------|
| STOCKWATER            | 01/01 to 12/31       | 0.090 CFS             | 5.40 AF              |
| DOMESTIC              | 01/01 to 12/31       | 0.080 CFS             | 2.40 AF              |
| IRRIGATION            | 04/01 to 11/01       | 0.030 CFS             | 3.50 AF              |
| <u>Totals:</u>        |                      | 0.090 CFS             | 11.30 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

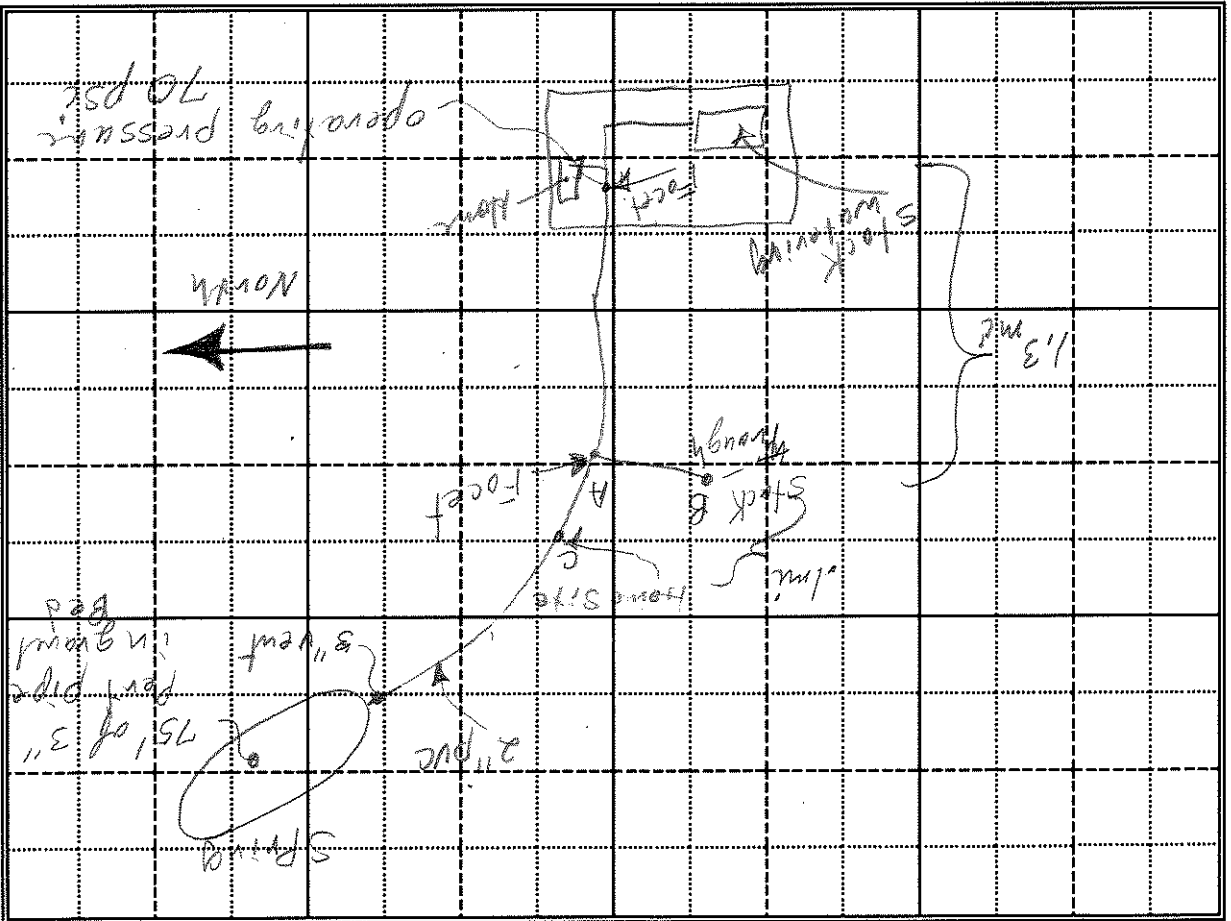
**I. AUTHENTICATION**

Field Examiner's Name Kieth Wilson and Lee Simmons Date: August 2, 1998 and January 15, 2004

Reviewer Nate Arave Nate Arave Date March 7, 2007 3/7/07



3. Delivery System Diagram: Indicate all major components and distances between components. Indicate well size/ditch size/pipe size/ditch size/pipe l.d. as applicable.



Scale: 1" = \_\_\_\_\_

\_\_\_\_ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).  
 \_\_\_\_\_ Aerial Photo Attached (required for irrigation of 10+ acres)  
 \_\_\_\_\_ Photo of Diversion and System Attached

4.

| Well or Diversion Identification No.* | Motor Make | Hp | Motor Serial No. | Pump Make | Pump Serial No. or Discharge Size |
|---------------------------------------|------------|----|------------------|-----------|-----------------------------------|
|                                       |            |    |                  |           |                                   |
|                                       |            |    |                  |           |                                   |
|                                       |            |    |                  |           |                                   |
|                                       |            |    |                  |           |                                   |

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

## D. FLOW MEASUREMENTS

1.

| Measurement Equipment | Type | Make | Model No. | Serial No. | Size | Calib. Date |
|-----------------------|------|------|-----------|------------|------|-------------|
|                       |      |      |           |            |      |             |
|                       |      |      |           |            |      |             |

2. Measurements: *Theoretical flow*

E. NARRATIVE/REMARKS/COMMENTS

The spring is topped with 3" pvc pipe in a gravel bed. This feeds a 2" pvc main line. A proposed home (Domestic) <sup>WITH HOGEGE</sup> is at 1/4 mile and a stock watering Trough is located at the end of a 1 1/2" pvc tape from the 2" main line. The 2" main line then goes down hill for approx. 1.3 miles to the main home on the system. The operating pressure at the lower home is 70 psi. The home has less than 1/2 acre of lawn and a stock watering troughs.

Have conditions of permit approval been met? ☒ yes ☐ no

Additional Computation Sheets Attached

Assume Velocity  $\leq 7 \text{ fps}$

$$Q = AV$$

Area of 2" PVC ASSUME  $\approx 1\frac{1}{2}$ " id

$$A = \frac{\left(\frac{1.5}{12}\right)^2 \pi}{4} = 0.0122 \text{ ft}^2$$

$$Q = (0.0122)(7 \text{ f/s}) = 0.085 \sim 0.09 \text{ ft}$$

**G. VOLUME CALCULATIONS**  
1. Volume Calculations for Irrigation: *IRRIGATION PART OF DOMESTIC*

### 1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1 (3.5) = 3.5$$

$$V_{D,R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.03(1.9835)(214) = 1.27$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{3.5 \text{ af}}$$

## 2. Volume Calculations for Other Uses:

$$V_{DOM} = 1.2 \times 22 \text{ 2.4 tcf}$$

$$\sqrt{400} = 400 \times 0.0134 = 5.36 \text{ of } = 5.4 \text{ of a}$$

$$V_{IRR} = 3.5$$

## H. RECOMMENDATIONS

## 1. Recommended Amounts

|                       | <b>Period of Use</b> |           | <b>Rate of Diversion</b> | <b>Annual Volume</b> |
|-----------------------|----------------------|-----------|--------------------------|----------------------|
| <b>Beneficial Use</b> | <b>From</b>          | <b>To</b> | <b>Q (cfs)</b>           | <b>V (afa)</b>       |
| Domestic 2Homes       | 1/1                  | 12/31     | 0.04                     | 2.4                  |
| Stock Watering        | 1/1                  | 12/31     | 0.09                     | 5.4                  |
| IRRIGATION            | 4/1                  | 10/31     | 0.03                     | 3.5                  |
|                       |                      |           |                          |                      |
|                       |                      |           |                          |                      |
| Totals:               |                      |           | 0.09 cfs                 | 11.3 afa             |

## 2. Recommended Amendments

None

Other

## I. AUTHENTICATION

KEITH C WILSON 1/15/2004

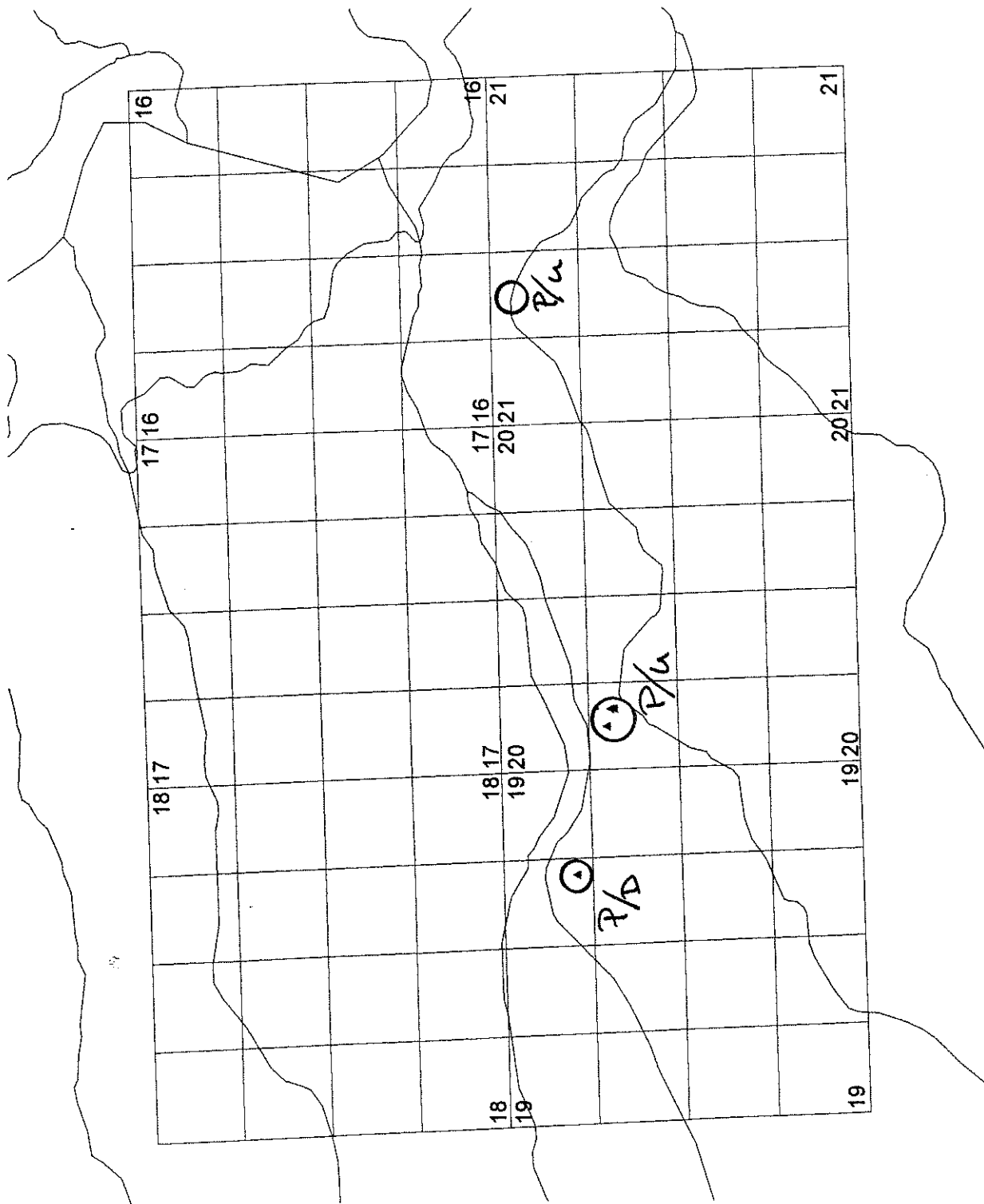
Date \_\_\_\_\_

Reviewer

Date \_\_\_\_\_

SEAL

# Township 11 South, Range 40 East



2 Miles





Point of diversion looking North West



Point of diversion Siphon break looking North

Permit # 13-7447



Photo showing pipe (PVC) from point of diversion

Permit # 13-7447



photo showing Frost Free ~~Be~~ and Valve Stem  
to Stock Watering - This is on main line



Stock watering trough

Permit #13-7447



Photo looking South one place of use

Permit #13-7447

## Comment Report

13-7447

1. kwilson 9/2/1998 Field Report Narrative

Comment: The spring is tapped with 3 inch perforated pipe in a gravel bed. This feeds a 2 inch main line. A proposed home (domestic) with hookups is at 1/4 mile and a stock watering trough is located at an end of a 1 1/2 PVC tap from the 2 inch main line. The 2 inch main line then goes down hill for approximately 1.3 miles to the main house on the system. The operating pressure at the lower home is 70 PSI. The home has less than 1/2 acre of lawn and a stock watering together.

2. narave 3/7/2007 POU

Comment: Updated Shape

3. narave 3/7/2007 POU

Comment: Updated Shape

4. narave 3/7/2007 POU

Comment: Updated Shape

5. narave 3/7/2007 POU

Comment: Updated Shape

6. narave 3/7/2007 POU

Comment: Updated Shape

7. narave 3/7/2007 POU

Comment: Updated PLS

8. narave 3/7/2007 POU

Comment: Updated Shape

9. narave 3/7/2007 POU

Comment: Updated Shape

10. narave 3/7/2007 POU

Comment: Updated PLS

11. narave 3/7/2007 POU

Comment: Updated Shape

12. narave 3/7/2007 POU

Comment: Updated PLS

13. narave 3/7/2007 POU

Comment: Updated PLS

Comment: Updated PLS

14. narave 3/7/2007 POU

Comment: Updated Shape

15. narave 3/7/2007 POU

Comment: Updated PLS

16. narave 3/7/2007 POU

Comment: Updated PLS

17. narave 3/7/2007 POU

Comment: Updated Shape

18. narave 3/7/2007 POU

Comment: Updated PLS

19. narave 3/7/2007 POU overlap

Comment: 13 4074

20. VAULT 6/19/1992 Extension of Time Received

Comment: Extension of Time Received

21. VAULT 7/7/1992 Lapse Notice Sent

Comment: Lapse Notice Sent

22. VAULT 7/14/1992 Proof of Beneficial Use Rcvd

Comment: Proof of Beneficial Use Rcvd

23. Isimmons 1/15/2004 Field Report Narrative

Comment: The spring is tapped with 3" perf. pipe in a gravel bed. This feeds a 2" pvc main line. A proposed home (domestic) with hookups is at 1/4 mile and a stock watering trough is located at a end of a 1 1/2" pvc tap from the 2" main line. The 2" main line then goes down-hill for aprox. 1.3 mile to the main home on the system. The operating pressure at the lower home is 70 psi. The home has less than 1/2 acre of lawn and a stock watering trough.

24. kwilson 1/15/2004 Field Report Narrative

Comment: The one-acre of irrigation is divided between the two domestic homes. According to the field examiner there were to be two homes on the system.

No other water rights are used for the same purpose.

[illegible]

| Type  | WR #    | Owner                                  | Source     | TRS        | NENE | NWNE | SWNE | SENE | NENW | NWNW | SWNW | SENW | NESW | NWSW | SWSW | SESW | NESE | NWSE | SWSE | SESE | Total |
|-------|---------|----------------------------------------|------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| Right | 13 620  | IRA H HOGAN,                           | BOBS CREEK | 11S40E16   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 0     |
| Right | 13 621  | JANET M WHEELER, WHEELER FAMILY TRUST, | BEAR RIVER | 11S40E16   | 2    |      |      | 26   | X    | X    |      |      |      |      |      |      |      |      |      |      | 60    |
| Right | 13 681B | WHEELER FAMILY TRUST, JANET M WHEELER, | BEAR RIVER | 11S40E16   |      |      |      | 26   |      |      |      |      |      |      |      |      |      |      |      |      | 60    |
| Right | 13 682B | JANET M WHEELER, WHEELER FAMILY TRUST, | BEAR RIVER | 11S40E16   | 2    |      |      | 26   |      |      |      |      |      |      |      |      |      |      |      |      | 60    |
| Right | 13 683  | WHEELER FAMILY TRUST, JANET M WHEELER, | BEAR RIVER | 11S40E16   | 2    |      |      | 26   |      |      |      |      |      |      |      |      |      |      |      |      | 60    |
| Right | 13 959  | GENTLE VALLEY IRRIGATION CO LTD,       | BEAR RIVER | 11S40E16 X |      | X    |      |      | X    | X    |      | X    |      |      |      |      |      | X    |      |      | 0     |
| Right | 13 4119 | DEAN HOGAN,                            | SPRING     | 11S40E16   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 0     |
| Right | 13 7447 | SHAW LAND & LIVESTOCK CO,              | SPRINGS    | 11S40E16   |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      | 0     |
| Right | 13 7447 | SHAW LAND & LIVESTOCK CO,              | SPRINGS    | 11S40E16   |      |      |      |      |      |      |      |      |      |      |      |      | 0.5  |      |      |      | 0.5   |
| Right | 13 7447 | SHAW LAND & LIVESTOCK CO,              | SPRINGS    | 11S40E16   |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      | 0     |