

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**BENEFICIAL USE FIELD REPORT**

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

**A. GENERAL INFORMATION**Permit No. 63-340041. Owner Zach and Trisha BeutlerPhone No. 208-251-8839Current address 13979 Hollow Rd, Caldwell, Id 836072. Examiner's name Cody ParkerEXAM DATE 9/20/20183. Accompanied by Zach Beutler

Email \_\_\_\_\_

Address \_\_\_\_\_

Relationship to permit holder same

Phone No. \_\_\_\_\_

4. Source \_\_\_\_\_ tributary to \_\_\_\_\_

**B. OVERLAP REVIEW**1. Other water rights with the same place of use 63-10673, 63-35632. Other water rights with the same source and point of diversion 63-10673, 63-3563**C. DIVERSION AND DELIVERY SYSTEM**

## 1. Point(s) of Diversion:

| Ident. No. | Gov't Lot | ¼ | ¼  | ¼  | Sec | Twp | Rge | County | Method of Determination/Remarks |
|------------|-----------|---|----|----|-----|-----|-----|--------|---------------------------------|
|            |           |   | SE | NW | 11  | 05N | 03W | Canyon | GPS, digital PLS                |
|            |           |   |    |    |     |     |     |        | N 43 47' 22.0"                  |
|            |           |   |    |    |     |     |     |        | W 116 40' 00.9"                 |
|            |           |   |    |    |     |     |     |        |                                 |

## 2. Place(s) of Use:

Method of determination site visit, aerial imagery, digital PLS

| Twp | Rge | Sec | NE |    |     |    | NW |    |    |    | SW |    |    |    | SE |    |    |    | Totals |
|-----|-----|-----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
|     |     |     | NE | NW | SW  | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE |        |
| 05N | 03W | 11  |    |    | 0.4 |    | 20 | 37 | 34 | 36 | 17 |    |    |    |    |    |    |    | 144.4  |
|     |     |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |        |

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☒ see attached.

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 |
|---------------------------------------|------------|-----|------------------|-----------|-----------------------------------|
| Unknown                               | US Motors  | 150 | Cat.H0150V2SLGX  | Unknown   |                                   |
|                                       |            |     |                  |           |                                   |
|                                       |            |     |                  |           |                                   |

\*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 only

\_\_\_\_\_

**E. NARRATIVE/REMARKS/COMMENTS**

The point of diversion is a 16-inch well. Water is diverted using a 150-hp motor and pump to 6" steel line which supplies water to two pivot centers, to risers for hand lines at the corners of the fields, and to separate risers for a wheel line. Minimum operating pressure at the well head is 50 psi.

I estimated the theoretical diversion rate based on a dynamic water level of 245 ft BGS. Static water level is 160 ft BGS and the pump is set at 262 ft BGS. Because the motor and pump are 150 hp I assumed that dynamic pump level is likely closer to the pump than to static water level. The estimated theoretical rate from the well is 2.56 cfs. Right now this well is the only source of irrigation water for the property. Two overlapping rights have potentially used other wells within the same QQ. The other wells are no longer operational. I assume all three rights are diverted from the same pod. Therefore, I have recommended a combined limit for the diversion rate. The other two rights total 149 acres irrigation which completely overlap the ~145 acres of this right. When combined, all three should be limited to 149 acres. The current landowner has not changed the ownership for right no. 63-3563.

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☒ Yes ☐ No If no, what must be done to meet the permit requirements?

Licensed right requires X35 condition limiting 63-34004, 63-10673, and 63-3563 to 149 acres and 2.56 cfs.

**F. FLOW CALCULATIONS**☐ Additional computation sheets attached

Measured Method:

Theoretical:  $8.8 \times 0.7 \times 150\text{hp} / (245 \text{ ft} + 2.31 \times 50 \text{ psi}) = 2.56 \text{ cfs}$ BU Standard =  $144.4 \text{ acres} \times 0.02 \text{ cfs/acre} = 2.89 \text{ cfs}$ 

Permit: 1.30 cfs (recommended)

Fee: 2.0 cfs

**G. VOLUME CALCULATIONS**

## 1. Volume Calculations for Irrigation:

 $V_{I,R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 144.4 \text{ acres} \times 4.5 \text{ afa/acre} = 649.8 \text{ afa}$  $V_{D,R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 1.30 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 670.4$  $V = \text{Smaller of } V_{I,R} \text{ and } V_{D,R} = 649.8$ 

## 2. Volume Calculations for Other Uses:

No other uses

**H. RECOMMENDATIONS**

## 1. Recommended Amounts

| Beneficial Use | Period of Use |       | Rate of Diversion<br>Q (cfs) | Annual Volume<br>V (afa) |
|----------------|---------------|-------|------------------------------|--------------------------|
|                | From          | To    |                              |                          |
| Irrigation     | 03/01         | 11/15 | 1.30 cfs                     | 650 afa                  |
|                |               |       |                              |                          |
|                |               |       |                              |                          |
|                |               |       |                              |                          |
|                |               |       |                              |                          |
| <b>Totals:</b> |               |       | 1.30 cfs                     | 650 afa                  |

## 2. Recommended Amendments

☐ Change P.D. as reflected on page 1☐ Add P.D. as reflected on page 1☒ None☐ Change P.U. as reflected on page 1☐ Add P.U. as reflected on page 1☐ Other**I. AUTHENTICATION**

Field Examiner's Signature

Date 9-28-18

Reviewer

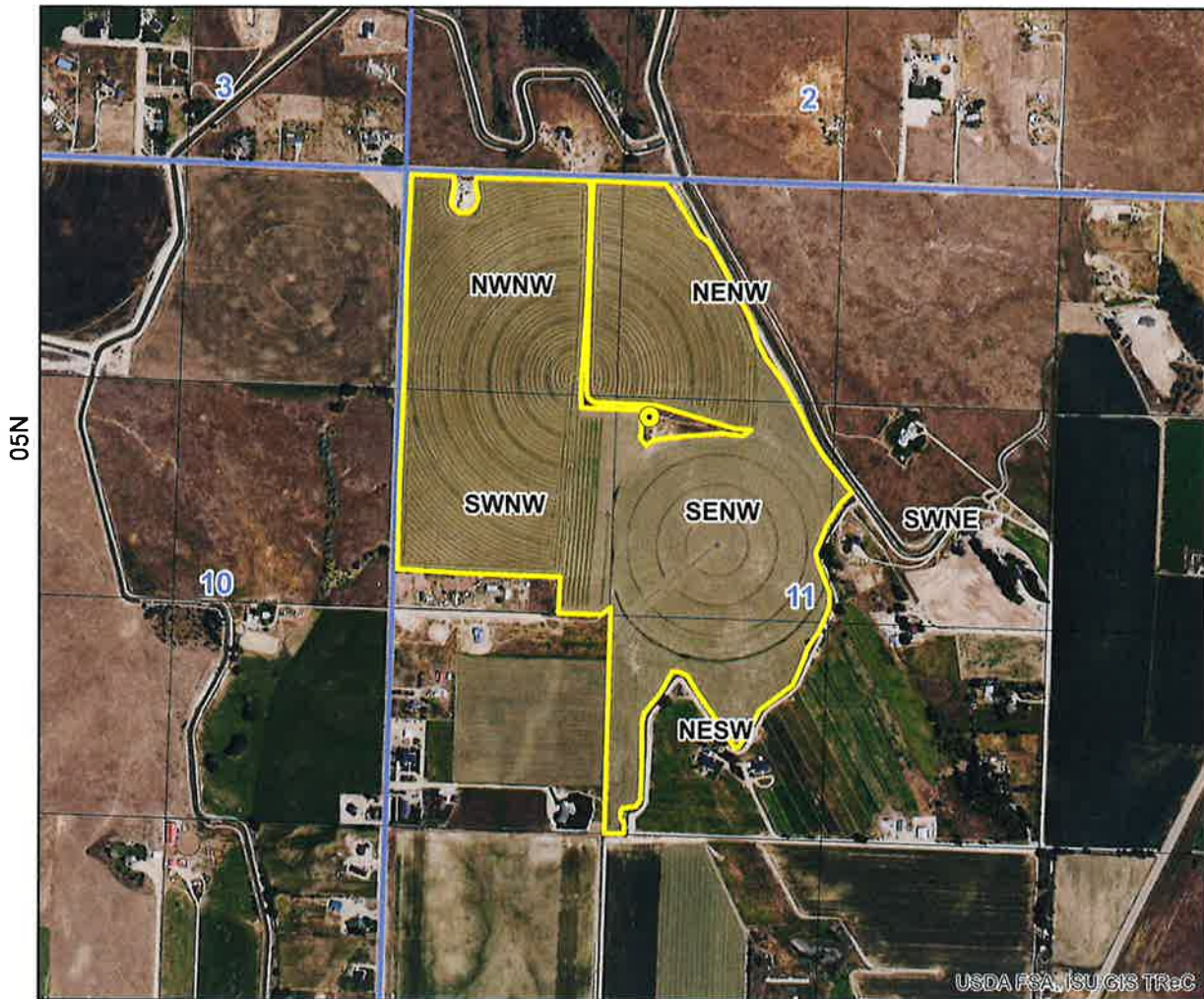
Date 9/28/18

SEAL

State of Idaho  
Department of Water Resources  
**Beneficial Use Field Report**  
63-34004

IRRIGATION

03W

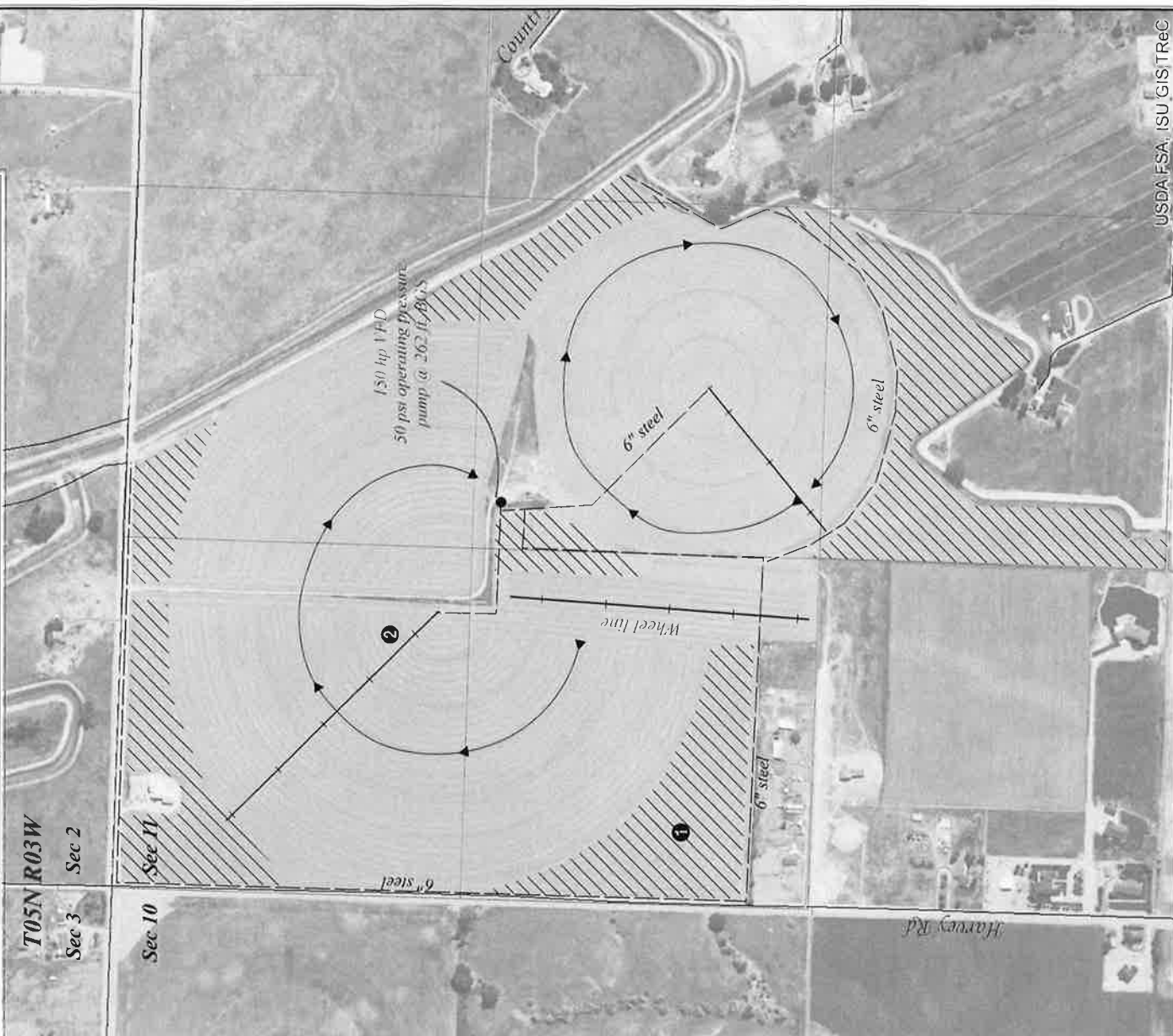


0 0.125 0.25 0.5 Miles

-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections



System Diagram



Notes

- 1 - Hatched areas are irrigated using hand lines. All hand lines and wheel lines have sprinkler heads with 5/32" nozzles. Max diversion is reached when both pivots and two zones of hand lines are run simultaneously.
- 2 - According to the owner, the larger pivot is designed to run at 630 gpm and the smaller at 275 gpm. The total diversion from the pivots per this information is 975 gpm, or 2.02 cfs.

145 acres irrigated x 4.5 afa/acre = 652.5 afa

145 acres irrigated x 0.02 cfs/acre = 2.90 cfs

$$Q = \frac{8.8 \times 0.7 \times 150 \text{ hp}}{245 \text{ ft} + (2.31 \times 50 \text{ psi})} = 2.56 \text{ cfs}$$

Total developed use:

145 acres 2.56 cfs 652.5 afa

Existing licensed use (63-10673 & 63-3563 overlap):

149 acres 1.80 cfs 603.5 afa

**LEGEND**

- Point of diversion
  - Pivots and wheel lines
  - 6" steel mainline
  - Irrigated acreage
  - /// Hand-line irrigation
- 0 0.075 0.15 Miles

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**Figure 1.** The 150 hp max vfd motor running the pump, which is set at 262 ft BGS.



**Figure 2.** The specification tag for the electric motor.

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**Figure 3.** Six-inch mainline from the well to risers and pivot centers.



**Figure 4.** A view of the irrigated area from the C-Line Canal east of the POU.

## Place of use comparison

05N03W11

| Basin/Seq# | Owner            | Source            | Use | NENE | NWNE | SWNE | SENE | NENW | NWNW | SWNW | SESW | NESW | NWSW | SWSW | SESW | NESE | NWSE | SWSE | SESE | Total Acres |
|------------|------------------|-------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------|
| 63-10673   | HUKILL J         | GROUND IRRIGATION |     |      |      |      |      | 20   |      |      |      | 2    |      |      |      |      |      |      |      | 22          |
| 63-11172   | HERBEL           | GROUND IRRIGATION |     |      |      | 0.7  |      |      |      |      |      |      |      |      |      |      |      |      |      | 0.7         |
| 63-2322    | UNITED SELIAH S  | IRRIGATION        | X   | X    | X    |      | X    | X    |      |      |      | X    | X    | X    | X    | X    | X    | X    | X    |             |
| 63-2322    | UNITED S WILSON  | IRRIGATION        | X   | X    | X    |      | X    | X    |      |      |      | X    | X    | X    | X    | X    | X    | X    | X    |             |
| 63-2878    | BLACK C ELIJAH D | IRRIGATION        | X   | X    | X    |      | X    | X    |      |      |      | X    | X    | X    | X    | X    | X    | X    | X    |             |
| 63-2878    | BLACK C WILSON   | IRRIGATION        | X   | X    | X    |      | X    | X    |      |      |      | X    | X    | X    | X    | X    | X    | X    | X    |             |
| 63-34004   | BEUTLER          | GROUND IRRIGATION |     |      |      | 0.4  |      | 20   | 37   | 34   | 36   | 17   |      |      |      |      |      |      |      | 144.4       |
| 63-3563    | BEUTLER          | GROUND IRRIGATION |     |      |      |      |      | 17.5 | 39.5 | 33   | 31   | 6    |      |      |      |      |      |      |      | 127         |
| 63-2433    | UNITED SPAYETTE  | IRRIGATION        | X   | X    | X    |      | X    | X    |      |      |      | X    | X    | X    | X    | X    | X    | X    | X    |             |
| 63-2900    | BLACK C TUNNEL   | IRRIGATION        | X   | X    | X    |      | X    | X    |      |      |      | X    | X    | X    | X    | X    | X    | X    | X    |             |

Irrigation POU and POD overlap

No overlap

Irrigation district/company rights, no overlap

## Point of diversion comparison

05N03W11

| Basin/Seq# | Owner    | Source       | NENE | NWNE | SWNE | SENE | NENW | NWNW | SWNW | SESW | NESW | NWSW | SWSW | SESW | NESE | NWSE | SWSE | SESE |
|------------|----------|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 63-10673   | HUKILL J | GROUND WATER |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 63-11172   | HERBEL   | GROUND WATER |      |      | X    |      |      |      |      | X    |      |      |      |      |      |      |      |      |
| 63-22945   | WEBER, I | GROUND WATER |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |
| 63-23942   | WOLFE, C | GROUND WATER |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |
| 63-25777   | MOYLAN   | GROUND WATER |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 63-26445   | SLACK, R | GROUND WATER |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |
| 63-27408   | HONEYC   | GROUND WATER |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |
| 63-27600   | DOORNE   | GROUND WATER |      |      |      |      |      |      |      |      |      |      | X    | X    |      |      |      |      |
| 63-27601   | DOORNE   | GROUND WATER |      |      |      |      |      |      |      |      |      |      | X    | X    |      |      |      |      |
| 63-28058   | HOPKINS  | GROUND WATER |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |
| 63-28847   | NEUBAU   | GROUND WATER |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |
| 63-31093   | BEUTLER  | GROUND WATER |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |
| 63-34004   | BEUTLER  | GROUND WATER |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |
| 63-3563    | BEUTLER  | GROUND WATER |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |

POD overlap

No domestic use from POD, no overlap

**Layne of Idaho, Inc.**

Remit to:

PO Box 1005

Nampa ID 83653

Phone: 208-466-7376

Fax: 208-466-5078

**INVOICE**

Invoice Number: 15904

Invoice Date: Jun 12, 2015

Page: 1

**Bill To:**Zach Beutler Farms  
1203 La Reata Way  
Middleton, ID 83644**Ship to:**Zach Beutler Farms  
1203 La Reata Way  
Middleton, ID 83644

Phone: 251-8839

Fax:

| Customer ID        | Customer PO    | Payment Terms |          |
|--------------------|----------------|---------------|----------|
| BEUT001            | Zach           | Net Due       |          |
| Idaho Power Number | Work Order No. | Ship Date     | Due Date |
|                    | 0415-001       |               | 6/12/15  |

| Quantity               | Description                                                                                                                                               | Unit Price | Amount           |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------|
|                        | IPCO #05N 03W 1103 - North on Emmett Rd to Hollow, west 1 mile south to pump across from house at 13788<br>150hp 5 stage deepset 262' - 8 x 2-1/2 x 1-1/2 |            |                  |
|                        | Reference Quote 0115-001 R2                                                                                                                               |            |                  |
| 1.00                   | Pull and set                                                                                                                                              |            |                  |
| 1.00                   | 5 stage bowl assembly - complete                                                                                                                          |            |                  |
|                        | Total for above                                                                                                                                           |            | 10,545.00        |
|                        | Motor purchased through Agir-Lines did not match old motor                                                                                                |            |                  |
| 1.00                   | Added machine time, parts and field install.                                                                                                              | 1,040.00   | 1,040.00         |
| 13.00                  | Replace tube and shaft 2-1/2 x 1-1/2 (13 sticks)                                                                                                          | 792.00     | 10,296.00        |
| Subtotal               |                                                                                                                                                           |            | 21,881.00        |
| Sales Tax              |                                                                                                                                                           |            |                  |
| Total Invoice Amount   |                                                                                                                                                           |            | 21,881.00        |
| Payment/Credit Applied |                                                                                                                                                           |            |                  |
| <b>TOTAL</b>           |                                                                                                                                                           |            | <b>21,881.00</b> |

Check/Credit Memo No:

All accounts are due and payable per the invoiced terms.

All past due amounts are subject to finance charges of 1-1/2% per month plus cost of collection including attorney fees if incurred.