

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**Form must be Typed**

**Form must be Signed**

**All blanks must be Filled**

**WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD  
 Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

|  |   |
|--|---|
| Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No<br><i>(Attach Additional Sheets)</i><br><br>Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>List All E. Logs Run: | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample<br><br>Name Top Datum |
|--|---|

| CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used  |                   |                           |                   |               |                |              |                            |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. |                   |                           |                   |               |                |              |                            |
| Purpose of String   | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
|   |                   |                           |                   |               |                |              |                            |
|   |                   |                           |                   |               |                |              |                            |
|   |                   |                           |                   |               |                |              |                            |

| ADDITIONAL CEMENTING / SQUEEZE RECORD  |                  |                |              |                            |
|--|------------------|----------------|--------------|----------------------------|
| Purpose:   | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate<br><input type="checkbox"/> Protect Casing<br><input type="checkbox"/> Plug Back TD<br><input type="checkbox"/> Plug Off Zone |                  |                |              |                            |
|  |                  |                |              |                            |

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

|   |  |         |             |                       |
|---|--|---------|-------------|-----------------------|
| Date of first Production/Injection or Resumed Production/Injection: | Producing Method:<br><input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____ |         |             |                       |
| Estimated Production Per 24 Hours                                   | Oil Bbls.  | Gas Mcf | Water Bbls. | Gas-Oil Ratio Gravity |

|   |   |                                    |
|---|---|------------------------------------|
| DISPOSITION OF GAS:<br><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease<br><i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION:<br><input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled<br><i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> | PRODUCTION INTERVAL:<br>Top Bottom |
|---|---|------------------------------------|

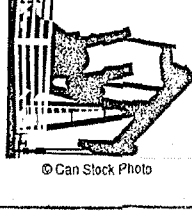
| Shots Per Foot | Perforation Top | Perforation Bottom | Bridge Plug Type | Bridge Plug Set At | Acid, Fracture, Shot, Cementing Squeeze Record<br><i>(Amount and Kind of Material Used)</i> |
|----------------|-----------------|--------------------|------------------|--------------------|---|
|                |                 |                    |                  |                    |   |
|                |                 |                    |                  |                    |   |
|                |                 |                    |                  |                    |   |
|                |                 |                    |                  |                    |   |

|                |       |         |            |  |
|----------------|-------|---------|------------|--|
| TUBING RECORD: | Size: | Set At: | Packer At: |  |
|----------------|-------|---------|------------|--|



JARRED LEIS  
PETROLEUM GEOLOGIST

201 E. OAK ST.  
YATES CENTER, KS 66783  
620-212-0048 jarredleis@gmail.com



**GEOLOGIST'S REPORT**

DRILLING TIME AND SAMPLE LOG

COMPANY Ad Astra Oil, LLC

LEASE Becker #5

FIELD Fred

LOCATION SW-NW-NE-NE

SEC 14 TWP 9S RGE 21E

COUNTY Leavenworth STATE Kansas

CONTRACTOR Hatt Drilling, LLC

SPUD 8/4/2017 COMP 8/9/2017

RID 1538 LTD 1538

MAUD UP 1150 TYPE MAUD

ELEVATIONS

KB

DF 1097 est

Measurements Are At 11 FT OM Ground Level

CASING

PRODUCT ON 4 1/2"

8 5/8"

ELECTRICAL SURVEYS

Density/Neutron & Dual Induction

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION

SAMPLE TOP

ELECTRIC LOG TOP

SUB-SEA DATUM

STRUCTURAL POSITION

A B C

Upper McClouth 1304 -207

Lower McClouth 1340 -259

Burgess Sand 1426 -323

Miss 1438 -341

-277 -286

-327 -345

-340 -340

-355 -355

-359 -357

REFERENCE WELLS FOR STRUCTURE

- A Becker #1 (Victor J. Leis) sec 14 19/R21E
- B Fredricks #2 (Victor J. Leis) sec 11 19/R21E
- C Becker #3 (Victor J. Leis) sec 14 19/R21E

**Becker #5  
Geologist Report**

Ad Astra Oil, LLC

Geologist: Jarred Leis

Dear Sirs,

The following information is based on my microscopic examination of the drilling cuttings in this well from 1290 ft to Total Depth. All measurements for this well were taken from an estimated ground level elevation of 1097ft. Also, I will add analysis of the Open Hole logs that were run.

The Zones of interest in the Becker #5 were the Burgess Sand and Mississippi (1490-1496). The Burgess was comparable to the completed wells in this field, and appeared economic. The zone in the Miss looks economic on the open hole logs however with loss of circulation shortly after cutting this zone, cuttings were somewhat inconclusive. They are described in detail below.

**Burgess Sand (1426-1436 e-log's)**

1426-1436 sample log: Sandstone: fine-grained, loose grains, very friable, good inter-crystalline porosity, good odor, samples saturated in heavy oil, gas bubbles, great show of free oil, dull blue fluorescence. The open hole logs indicate that the upper 6 ft. of the Burgess has extremely good porosity (30-37%) with great gas crossover. As well as great porosity, the dual induction log shows 15-17 ohms resistivity in the upper 6ft which indicates good hydrocarbon saturation.

**Miss Zone (1490-1496 e-log's)**

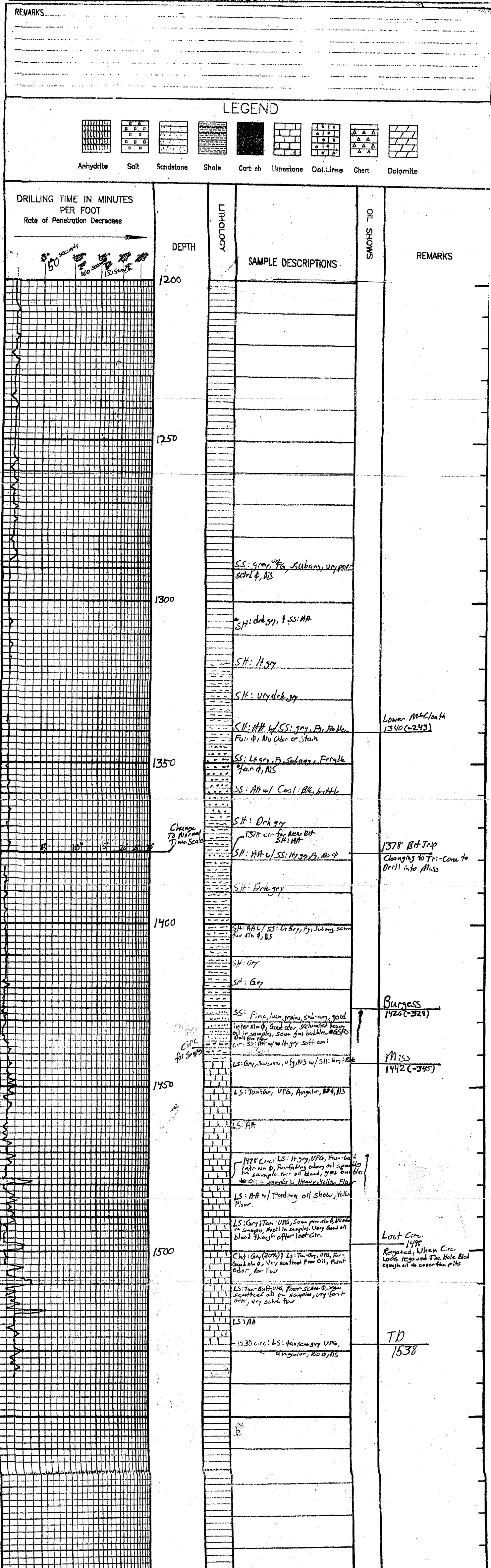
1500 - 1510 on sample log after circulation was regained: Limestone: tan to grey, very fine grained, fair to good crystalline porosity, very scattered free oil, faint odor, poor fluorescence. The open hole logs indicate great porosity from 1490-1496 (26-36%) with great gas crossover. As well as great porosity, the dual induction log shows ~30 ohms resistivity which could indicate a good saturation of hydrocarbons.

**Summary**

Due to significant oil shows in the Burgess Sand and an abundant amount of oil bleed on the pits while drilling the Mississippi, as well as great attributes for both zones on the open hole logs the decision was made to run 4 1/2" casing to further evaluate these zones.

Respectfully Submitted,

*JL*  
Jarred Leis  
Petroleum Geologist



HAT Drilling

Invoice No: 732

12371 KS Hwy 7

Invoice date: 08-9-17

Mound City, KS 66056

Sold to: Ad Astra Oil Well: Becker #5 T.D. 1538'

| <b>Quantity</b> | <b>Description</b>                       | <b>Amount</b>       |
|-----------------|--|---------------------|
| <u>1418'</u>    | <u>of 6 3/4 hole @ \$9.50/ft</u>         | <u>\$ 13,471.00</u> |
| <u>120'</u>     | <u>of 6 3/4 hole @ \$12.50/ft (Miss)</u> | <u>\$ 1,500.00</u>  |
| <u>16</u>       | <u>hours rig time @ \$250/hr</u>         | <u>\$ 4,000.00</u>  |
| <u>1</u>        | <u>cement surface</u>                    | <u>\$ 250.00</u>    |
| <u>1</u>        | <u>moving charge</u>                     | <u>\$ 1,500.00</u>  |
| <u>12</u>       | <u>bags of cement</u>                    | <u>\$ 140.00</u>    |
| <u>2</u>        | <u>cement baskets and</u>                | <u>\$ 0.00</u>      |
| <u>1</u>        | <u>centralizer from Buckeye</u>          | <u>\$ 426.69</u>    |
|                 | <u>SUBTOTAL:</u>                         | <u>\$ 21,287.69</u> |
|                 | <u>minus down payment</u>                | <u>\$-10,000.00</u> |
|                 | <u>TOTAL:</u>                            | <u>\$ 11,287.69</u> |
|                 |  | <u>\$</u>           |
|                 | <u>Thank you for your business!</u>      | <u>\$</u>           |

3613A Y Road  
Madison, KS 66860  
Ph: 620-437-2661  
Fax: 620-437-2881



HURRICANE SERVICES INC

104 Prairie Plaza Parkway  
Garnett, KS 66032  
Ph: 785-448-3100  
Fax: 785-448-3102

FED ID# 48-1214033  
MC ID# 165290

Remit to: Hurricane Services, Inc.  
250 N. Water, Suite 200  
Wichita, KS 67202

Customer:

ADASTRA OIL LLC  
9701 W 132ND ST  
Overland Park, KS 66213

Invoice Date: 8/9/2017  
Invoice #: 0034045  
Lease Name: BECKER  
Well #: 5  
County: LEAVENWORTH

| Date/Description         | HRS/QTY   | Rate    | Total    |
|--------------------------|-----------|---------|----------|
| Ticket 50326 Longstring  | 0.000     | 0.000   | 0.00     |
| Heavy Eq mileage one way | 60.000    | 2.373   | 142.35   |
| Light Eq mileage one way | 60.000    | 1.095   | 65.70    |
| Ton mileage one way #241 | 697.000   | 0.949   | 661.45   |
| Cementer #230            | 1.000     | 492.750 | 492.75   |
| Cement Pozmix 70/30      | 250.000   | 10.001  | 2,500.25 |
| Bentonite Gel            | 440.000   | 0.219   | 96.36    |
| Calcium Chloride         | 660.000   | 0.730   | 481.80   |
| Mud flush                | 500.000   | 0.730   | 365.00   |
| Top rubber plug 4 1/2"   | 1.000     | 35.040  | 35.04    |
| Vac truck #110           | 5.000     | 61.320  | 306.60   |
| City water               | 3,360.000 | 0.009   | 31.89    |
| Pheno Seal               | 125.000   | 1.241   | 155.13   |

**Total** 5,334.32

All invoices are due upon receipt. Interest at the rate of 1 1/2% per month may be charged on all invoices not paid within 30 days from date of invoice.

**WE APPRECIATE YOUR BUSINESS!**



250 N. Water, Ste 200 - Wichita, Ks 67202

HURRICANE SERVICES INC

104 Prairie Plaza Parkway - Garnett, Ks 66032

Customer: Ad Astra Oil, LLC; Address: 4737 W. 61st ST.; City, State, Zip: Mission, Kansas 66205; Contract: Hat Drilling; Job type: Longstring; Well name & No.: Becker # 5; Well Location: Leavenworth; Equipment #, Driver, Equipment #, Driver, Equipment #, Driver table

Product/Service Code, Description, Unit of Measure, Quantity, List Price/Unit, Gross Amount, Net Amount table

Detailed line items table including: C001 Heavy Equip. One Way (\$142.35), C002 Light Equip. One Way (\$65.70), C003 Ton Mileage - One way (\$661.45), C020 Cement Pump (\$492.75), CP008 70/30 Pozmix Cement (\$2,500.25), CP013 Bentonite Gel (\$96.36), CP014 Calcium - Chloride (\$481.80), CP029 Mud Flush P/USI (\$365.00), CP039 Rubber Plug 4 1/2 (\$35.04), T003 Vacuum Truck 80 bbl (\$306.60), AF075 H2O (\$31.89), CP024 Pheno Seal (\$155.13)

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts may pay interest on the balance past due at the rate of 1 1/4% per month or the maximum allowable by applicable state or federal laws if such laws limit interest to a lesser amount.

Summary table: Gross: \$ 7,307.28; Net: \$ 5,334.31; Total Taxable \$ -; Tax Rate: -; Sale Tax: \$ -; Total: \$ 5,334.31; Date of Service: 8/9/2017; HSI Representative: Jake Heard; Customer Comments: [Blank]

CUSTOMER AUTHORIZED AGENT