

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 Recompletion Date \_\_\_\_\_ 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](mailto: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>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: |  |
|----------------|-------|---------|------------|--|

|           |                          |
|-----------|--------------------------|
| Form      | ACO1 - Well Completion   |
| Operator  | Landmark Resources, Inc. |
| Well Name | KOEHN 1-3                |
| Doc ID    | 1419241                  |

All Electric Logs Run

|                                |
|--------------------------------|
|                                |
| Borehole Compensated Sonic Log |
| Microresistivity Log           |
| Dual Comp Porosity Log         |
| Dual Induction Log             |

|           |                          |
|-----------|--------------------------|
| Form      | ACO1 - Well Completion   |
| Operator  | Landmark Resources, Inc. |
| Well Name | KOEHN 1-3                |
| Doc ID    | 1419241                  |

Tops

| Name           | Top  | Datum |
|----------------|------|-------|
| Anhydrite      | 2522 | 759   |
| B/Anhydrite    | 2542 | 739   |
| Topeka         | 3744 | -463  |
| Heebner        | 3982 | -701  |
| Toronto        | 4000 | -719  |
| Lansing        | 4030 | -749  |
| C              | 4068 | -787  |
| D              | 4086 | -805  |
| E              | 4116 | -835  |
| F              | 4124 | -843  |
| G              | 4132 | -851  |
| Muncie Creek   | 4196 | -915  |
| H              | 4206 | -925  |
| I              | 4243 | -962  |
| J              | 4266 | -985  |
| Stark Shale    | 4289 | -1008 |
| K              | 4304 | -1023 |
| L              | 4341 | -1060 |
| BKC            | 4374 | -1093 |
| Marmaton       | 4436 | -1155 |
| Altamont       | 4461 | -1180 |
| Pawnee         | 4508 | -1227 |
| Myrick Station | 4544 | -1263 |
| Fort Scott     | 4562 | -1281 |

|           |                          |
|-----------|--------------------------|
| Form      | ACO1 - Well Completion   |
| Operator  | Landmark Resources, Inc. |
| Well Name | KOEHN 1-3                |
| Doc ID    | 1419241                  |

Tops

| Name         | Top  | Datum |
|--------------|------|-------|
| Cherokee     | 4590 | -1309 |
| Johnson Zone | 4639 | -1358 |
| Morrow Shale | 4727 | -1446 |
| U Morrow Sd  | 4734 | -1453 |
| L Morrow Sd  | 4790 | -1509 |
| Missippian   | 4794 | -1513 |



*Boyle*  
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

*71890*

Customer:  
LANDMARK RESOURCES INC  
4900 WOODWAY DR  
SUITE 880  
HOUSTON, TX 77056

Invoice Date: 8/9/2018  
Invoice #: 0039385  
Lease Name: KOEHN  
Well #: 1-3  
County: WICHITA

| Date/Description    | HRS/QTY | Rate    | Total    |
|---------------------|---------|---------|----------|
| ICT1276 PTA         | 0.000   | 0.000   | 0.00     |
| Heavy Eq mileage    | 140.000 | 2.763   | 386.75   |
| Light Eq Mileage    | 70.000  | 1.275   | 89.25    |
| Ton Mileage one way | 811.000 | 1.105   | 896.16   |
| Cement Pump 230     | 1.000   | 807.500 | 807.50   |
| Cement Pozmix 60/40 | 300.000 | 10.923  | 3,276.75 |
| Bentonite Gel       | 888.000 | 0.255   | 226.44   |
| FLO Seal            | 75.000  | 1.827   | 137.06   |
| Wooden plug 8 5/8"  | 1.000   | 91.800  | 91.80    |

RECEIVED  
AUG 22 ENT'D

AUG 22 2018

*P1.*  
*#*  
*53570*  
*11,085.41*

Net Invoice 5,911.71  
Sales Tax 281.03  
**Total 6,192.74**

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!**



HURRICANE SERVICES INC

|                  |                    |   |                              |                              |  |
|------------------|--------------------|---|------------------------------|------------------------------|--|
| Customer         | Landmark Resources | Lease & Well #  | Koehn 1-3                    | Date                         | 8/9/2018   |
| Service District | Oakley, KS         | County & State  | Wichita ks                   | Legals S/T/R                 | 3/16/1936  |
| Job Type         | PTA                | <input type="checkbox"/> PROD                                     | <input type="checkbox"/> INJ | <input type="checkbox"/> SWD | New Well? <input type="checkbox"/> YES <input type="checkbox"/> No |
| Equipment #      | Driver             | Job Safety Analysis - A Discussion of Hazards & Safety Procedures |                              |                              |  |

|         |      |  |   |  |   |
|---------|------|--|---|--|---|
| 163/250 | Lupe | <input type="checkbox"/> Hard hat                | <input type="checkbox"/> Gloves                       | <input type="checkbox"/> Lockout/Tagout                            | <input type="checkbox"/> Warning Signs & Flagging           |
| 230     | Paul | <input type="checkbox"/> H2S Monitor             | <input type="checkbox"/> Eye Protection               | <input type="checkbox"/> Required Permits                          | <input type="checkbox"/> Fall Protection                    |
| 26      | Dane | <input type="checkbox"/> Safety Footwear         | <input type="checkbox"/> Respiratory Protection       | <input type="checkbox"/> Slip/Trip/Fall Hazards                    | <input type="checkbox"/> Specific Job Sequence/Expectations |
|         | Cody | <input type="checkbox"/> FRC/Protective Clothing | <input type="checkbox"/> Additional Chemical/Acid PPE | <input type="checkbox"/> Overhead Hazards                          | <input type="checkbox"/> Muster Point/Medical Locations     |
|         |      | <input type="checkbox"/> Hearing Protection      | <input type="checkbox"/> Fire Extinguisher            | <input type="checkbox"/> Additional concerns or issues noted below |   |

**Comments**  
All cement and chemicals delivered from the Oakley, KS service center

| Product/ Service Code | Description           | Unit of Measure | Quantity | Net Amount |
|-----------------------|-----------------------|-----------------|----------|------------|
| C001                  | Heavy Equip. One Way  | mi              | 140.00   | \$386.75   |
| C002                  | Light Equip. One Way  | mi              | 70.00    | \$69.25    |
| C003                  | Ton Mileage - One way | mi              | 811.00   | \$896.16   |
| C019                  | Cement Pump           | ea              | 1.00     | \$807.50   |
| CP010                 | 60/40 Pozmix Cement   | sack            | 300.00   | \$3,276.75 |
| CP016                 | Bentonite Gel         | lb              | 888.00   | \$226.44   |
| CP020                 | FLO-Seal              | lb              | 75.00    | \$137.06   |
| CP057                 | Wooden 8 5/8"         | ea              | 1.00     | \$91.80    |

|  |  |  |  |             |
|--|--|--|--|-------------|
| Customer Section: On the following scale how would you rate Hurricane Services Inc.?   |  |  | Net:                                     | \$5,911.71  |
| Based on this job, how likely is it you would recommend HSI to a colleague?  |  |  | Total Taxable                            | \$ -        |
| <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/><br>Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely |  |  | Tax Rate:                                |             |
|  |  |  | Sale Tax:                                | \$ -        |
|  |  |  | Total:                                   | \$ 5,911.71 |
|  |  |  | HSI Representative: <i>Dane Rotzloff</i> |             |

**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 shall pay interest on the balance past due at the rate of 1 ½% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

x *Jean Snow* \_\_\_\_\_ CUSTOMER AUTHORIZATION SIGNATURE



**TREATMENT REPORT**



**HURRICANE SERVICES INC**

|              |                            |       |          |           |  |
|--------------|----------------------------|-------|----------|-----------|--|
| Customer:    | Landmark Resources         | Date: | 8/9/2016 | Ticket #: |  |
| Field Rep:   | Juan                       |       |          |           |  |
| Address:     | 4900 Woodway Drive STE 880 |       |          |           |  |
| City, State: | Houston, TX                |       |          |           |  |
| County, Zip: | 77056                      |       |          |           |  |

|                  |            |                   |  |                  |                    |          |
|------------------|------------|-------------------|--|------------------|--------------------|----------|
| Field Order No.: |            | Open Hole:        |  | Perf Depths (ft) | Perfs              |          |
| Well Name:       | Koehn 1-3  | Casing Depth:     |  |                  |                    |          |
| Location:        | Wichita ks | Casing Size:      |  |                  |                    |          |
| Formation:       |            | Drill pipe depth: |  |                  |                    |          |
| Type of Service: | Cement     | Drill pipe size:  |  |                  |                    |          |
| Well Type:       | Oil        | Liner Depth:      |  |                  |                    |          |
| Age of Well:     | New        | Liner Size:       |  |                  |                    |          |
| Packer Type:     |            | Liner Top:        |  |                  |                    |          |
| Packer Depth:    |            | Liner Bottom:     |  |                  |                    |          |
| Treatment Via:   | Cement     | Total Depth:      |  |                  |                    |          |
|                  |            |                   |  |                  | <b>Total Perfs</b> | <b>0</b> |

| TIME          | INJECTION RATE |        | PRESSURE |         | REMARKS  | PROP (lbs) | HCL (gls) | FLUID (bbls) |
|---------------|----------------|--------|----------|---------|--|------------|-----------|--------------|
|               | FLUID          | N2/CO2 | STP      | ANNULUS |  |            |           |              |
| 6:30 AM       |                |        |          |         | Arrive on location   |            |           |              |
| 6:35 AM       |                |        |          |         | Safety meeting   |            |           |              |
| 6:40 AM       |                |        |          |         | Rig up   |            |           |              |
| 9:00 AM       | 2.0            |        | 250.0    |         | Pump water ahead   |            |           | 10.00        |
| 9:00 AM       | 3.5            |        | 275.0    |         | Mix 50 sks of 60/40 pozmix 4% gel .25 pheno 1.43 yield @2550 |            |           | 8.25         |
| 9:08 AM       | 3.5            |        | 200.0    |         | Displace   |            |           | 36.00        |
| 9:12 AM       |                |        |          |         | Rig pulls up to 1620   |            |           |              |
| 9:38 AM       | 2.0            |        | 275.0    |         | Pump water ahead   |            |           | 10.00        |
| 9:40 AM       | 3.5            |        | 200.0    |         | Mix 80 sks   |            |           | 13.00        |
| 9:45 AM       | 3.5            |        | 190.0    |         | Displace   |            |           | 23.00        |
| 9:53 AM       |                |        |          |         | Rig pulls up to 720  |            |           |              |
| 10:25 AM      | 3.5            |        | 200.0    |         | Mix 50 sks   |            |           | 8.25         |
| 10:30 AM      | 3.5            |        | 180.0    |         | Displace   |            |           | 10.00        |
| 10:37 AM      |                |        |          |         | Rig pulls to 300   |            |           |              |
| 10:55 AM      | 3.5            |        | 200.0    |         | Mix 50 sks   |            |           | 8.25         |
| 11:00 AM      | 3.5            |        | 190.0    |         | Displace   |            |           | 4.00         |
| 11:03 AM      |                |        |          |         | Rig comes out of hole  |            |           |              |
| 11:18 AM      | 3.0            |        | 50.0     |         | Drop plug mix 20 sks at 60. 30sks for RH 20sks for MH        |            |           |              |
| <b>TOTAL:</b> |                |        |          |         |  | -          | -         | 130.75       |

| SUMMARY      |              |         |         |
|--------------|--------------|---------|---------|
| Max FI. Rate | Avg FI. Rate | Max PSI | Avg PSI |
| 3.5          | 3.2          | 275.0   | 200.9   |

**PRODUCTS USED**

Pumped 300 sacks 60/40 poz with 4% gel, 1/4#/sk flo

Treater: Dave Rotzloff

Customer: Juan Pico



**HURRICANE SERVICES INC**

Ticket #: **ICT1276**

| TIME     | INJECTION RATE |        | PRESSURE |         | REMARKS                        | PROP<br>(lbs) | HCL<br>(gls) | FLUID<br>(bbls) |
|----------|----------------|--------|----------|---------|--------------------------------|---------------|--------------|-----------------|
|          | FLUID          | N2/CO2 | STP      | ANNULUS |                                |               |              |                 |
| 11:30 AM |                |        |          |         | Wash up equipment              |               |              |                 |
| 11:45 AM |                |        |          |         | Rig down                       |               |              |                 |
| 12:00 PM |                |        |          |         | Depart location                |               |              |                 |
|          |                |        |          |         | Thank you for using Hurricane! |               |              |                 |

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

*Becky*



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:  
LANDMARK RESOURCES INC  
4900 WOODWAY DR  
SUITE 880  
HOUSTON, TX 77056

*71730*

RECEIVED  
AUG 21 ENT'D

Invoice Date: 8/1/2018  
Invoice #: 0039301  
Lease Name: KOEHN (NEW)  
Well #: 1-3  
County: WICHITA

| Date/Description           | HRS/QTY | Rate    | Total    |
|----------------------------|---------|---------|----------|
| ICT1254 Surface (new well) | 0.000   | 0.000   | 0.00     |
| Heavy Eq mileage           | 120.000 | 2.763   | 331.50   |
| Light Eq Mileage           | 60.000  | 1.275   | 76.50    |
| Ton Mileage one way        | 534.330 | 1.105   | 590.43   |
| Cement pump #231           | 1.000   | 807.500 | 807.50   |
| Cement Class A             | 180.000 | 13.813  | 2,486.25 |
| Bentonite Gel              | 339.000 | 0.255   | 86.45    |
| Calcium Chloride           | 58.000  | 7.445   | 431.80   |
| FLO Seal                   | 45.000  | 1.828   | 82.24    |

*Pa.*  
*#*  
*53570*  
*11,085.41*

AUG 22 2018

**Total** 4,892.67

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!**



### HURRICANE SERVICES INC

|                  |                    |   |                              |                              |  |
|------------------|--------------------|---|------------------------------|------------------------------|--|
| Customer         | Landmark Resources | Lease & Well #  | #1-3 Koehn                   | Date                         | 8/1/2018   |
| Service District | Oakley, KS         | County & State  | Wichita, KS                  | Legals S/T/R                 | 3/16/1936  |
| Job Type         | Surface            | <input type="checkbox"/> PROD                                     | <input type="checkbox"/> INJ | <input type="checkbox"/> SWD | <input type="checkbox"/> YES <input type="checkbox"/> No |
| Equipment #      | Driver             | Job Safety Analysis - A Discussion of Hazards & Safety Procedures |                              |                              |  |
| Ticket #         | ICT1254            |   |                              |                              |  |

| Equipment # | Driver  | Job Safety Analysis - A Discussion of Hazards & Safety Procedures   |
|-------------|---------|---|
| 163/250     | TRAVIS  | <input type="checkbox"/> Hard hat <input type="checkbox"/> Gloves <input type="checkbox"/> Lockout/Tagout <input type="checkbox"/> Warning Signs & Flagging<br><input type="checkbox"/> H2S Monitor <input type="checkbox"/> Eye Protection <input type="checkbox"/> Required Permits <input type="checkbox"/> Fall Protection<br><input type="checkbox"/> Safety Footwear <input type="checkbox"/> Respiratory Protection <input type="checkbox"/> Slip/Trip/Fall Hazards <input type="checkbox"/> Specific Job Sequence/Expectations<br><input type="checkbox"/> FRC/Protective Clothing <input type="checkbox"/> Additional Chemical/Acid PPE <input type="checkbox"/> Overhead Hazards <input type="checkbox"/> Muster Point/Medical Locations<br><input type="checkbox"/> Hearing Protection <input type="checkbox"/> Fire Extinguisher <input type="checkbox"/> Additional concerns or issues noted below |
| 231         | Quentin |   |
|             | Bill    |   |

**Comments**

All chemicals and cement came from the Oakley,KS service center.

| Product/ Service Code | Description              | Unit of Measure | Quantity | Net Amount |
|-----------------------|--------------------------|-----------------|----------|------------|
| C001                  | Heavy Equip. One Way     | mi              | 120.00   | \$331.50   |
| C002                  | Light Equip. One Way     | mi              | 60.00    | \$75.50    |
| C003                  | Ton Mileage - One way    | mi              | 534.33   | \$590.43   |
| C019                  | Cement Pump              | ea              | 1.00     | \$807.50   |
| CP006                 | Regular - Class A Cement | sack            | 180.00   | \$2,486.25 |
| CP016                 | Bentonite Gel            | lb              | 339.00   | \$86.45    |
| CP017                 | Calcium - Chloride       | lb              | 508.00   | \$431.80   |
| CP020                 | FLO-Seal                 | lb              | 45.00    | \$82.24    |
|                       |                          |                 |          |            |
|                       |                          |                 |          |            |
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|                       |                          |                 |          |            |

|   |  |   |                                      |
|---|--|---|--------------------------------------|
| Customer Section: On the following scale how would you rate Hurricane Services Inc.?  |  | Net:  | \$ 4,892.67                          |
| Based on this job, how likely is it you would recommend HSI to a colleague?<br><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>Unlikely 1    2    3    4    5    6    7    8    9    10    Extremely Likely |  | Total Taxable \$ - Tax Rate:<br>State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt. | Sale Tax: \$ -<br>Total: \$ 4,892.67 |
|   |  | HSI Representative: <i>Bill Spaulding</i>   |                                      |

**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 shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X *Dean Brown* CUSTOMER AUTHORIZATION SIGNATURE

**TREATMENT REPORT**



**HURRICANE SERVICES INC**

|                     |                        |              |          |                  |         |
|---------------------|------------------------|--------------|----------|------------------|---------|
| <b>Customer:</b>    | Landmark Resources     | <b>Date:</b> | 8/1/2018 | <b>Ticket #:</b> | ICT1254 |
| <b>Field Rep:</b>   | Juan Tinoco            |              |          |                  |         |
| <b>Address:</b>     | 100 s Main St, STE 605 |              |          |                  |         |
| <b>City, State:</b> | Witchita, KS           |              |          |                  |         |
| <b>County, Zip:</b> | 67202                  |              |          |                  |         |

|                         |            |                      |         |                         |   |              |
|-------------------------|------------|----------------------|---------|-------------------------|---|--------------|
| <b>Field Order No.:</b> |            | <b>Open Hole:</b>    | 12.25   | <b>Perf Depths (ft)</b> |   | <b>Perfs</b> |
| <b>Well Name:</b>       | #1-3 Koehn | <b>Casing Depth:</b> | 259.84' |                         |   |              |
| <b>Location:</b>        |            | <b>Casing Size:</b>  | 8 5/8"  |                         |   |              |
| <b>Formation:</b>       |            | <b>Tubing Depth:</b> |         |                         |   |              |
| <b>Type of Service:</b> | Cement     | <b>Tubing Size:</b>  |         |                         |   |              |
| <b>Well Type:</b>       | Oil        | <b>Liner Depth:</b>  |         |                         |   |              |
| <b>Age of Well:</b>     | ew         | <b>Liner Size:</b>   |         |                         |   |              |
| <b>Packer Type:</b>     |            | <b>Liner Top:</b>    |         |                         |   |              |
| <b>Packer Depth:</b>    |            | <b>Liner Bottom:</b> |         |                         |   |              |
| <b>Treatment Via:</b>   |            | <b>Total Depth:</b>  | 259.84  |                         |   |              |
|                         |            |                      |         | <b>Total Perfs</b>      | 0 |              |

| TIME     | INJECTION RATE |        | PRESSURE |         | REMARKS  | PROP (lbs) | HCL (gls) | FLUID (bbls) |
|----------|----------------|--------|----------|---------|--|------------|-----------|--------------|
|          | FLUID          | N2/CO2 | STP      | ANNULUS |  |            |           |              |
| 5:45 PM  |                |        |          |         | Arrive on location                             |            |           |              |
| 5:55 PM  |                |        |          |         | Make contact with field rep.                   |            |           |              |
| 9:00 PM  |                |        |          |         | Safety meeting                                 |            |           |              |
| 9:15 PM  |                |        |          |         | Rig up equipment                               |            |           |              |
| 9:30 PM  | 3.0            |        | 25.0     |         | Break circulation                              |            |           | 5.00         |
| 9:40 PM  | 3.0            |        | 50.0     |         | Mix and pump 180 sacks at 14.8ppg (1.41 yield) |            |           | 45.00        |
| 10:00 PM | 3.0            |        | 50.0     |         | Begin Displacement                             |            |           |              |
| 10:15 PM |                |        | 100.0    |         | End displacement shut in well                  |            |           | 16.00        |
| 10:20 PM |                |        |          |         | good cement circulated to surface              |            |           |              |
| 10:40 PM |                |        |          |         | Wash up equipment                              |            |           |              |
| 10:45 PM |                |        |          |         | Rig down                                       |            |           |              |
| 11:00 PM |                |        |          |         | Depart location                                |            |           |              |
| TOTAL:   |                |        |          |         |  | -          | -         | 66.00        |

| SUMMARY      |              |         |         |
|--------------|--------------|---------|---------|
| Max Fl. Rate | Avg Fl. Rate | Max PSI | Avg PSI |
| 3.0          | 3.0          | 100.0   | 56.3    |

**PRODUCTS USED**

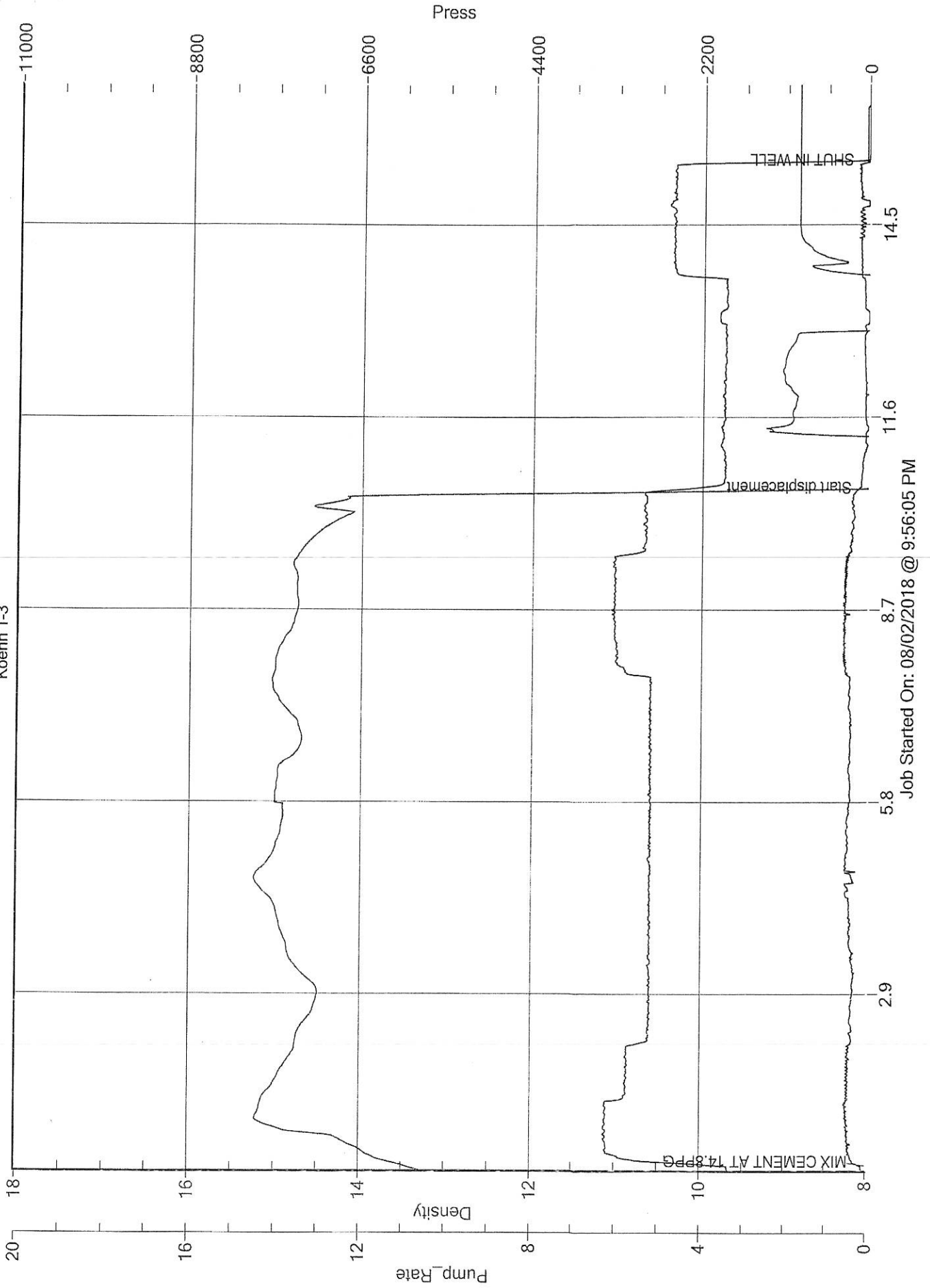
180 sacks Class A w/ 3% cc, 2% gel, and 0.25#/sk flo seal

Treater: Bill Spaulding

Customer: Juan Tinoco

# Landmark Resources

Koehn 1-3





## DRILL STEM TEST REPORT

Prepared For: **Landmark Resources, LLC**

4900 Woodway Dr. Ste 880  
Houston TX 77056

ATTN: Terri Mcleod

**Koehn #1-3**

**3-16s-36w Wichita,KS**

Start Date: 2018.08.06 @ 12:10:00

End Date: 2018.08.06 @ 19:35:45

Job Ticket #: 64410                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.08.10 @ 13:49:19



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Landmark Resources, LLC  
 4900 Woodway Dr. Ste 880  
 Houston TX 77056  
 ATTN: Terri Mcleod

**3-16s-36w Wichita, KS**

**Koehn #1-3**

Job Ticket: 64410

**DST#: 1**

Test Start: 2018.08.06 @ 12:10:00

## GENERAL INFORMATION:

Formation: **LKC H-I**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 14:37:15  
 Time Test Ended: 19:35:45  
 Interval: **4179.00 ft (KB) To 4260.00 ft (KB) (TVD)**  
 Total Depth: 4260.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 3281.00 ft (KB)  
 3270.00 ft (CF)  
 KB to GR/CF: 11.00 ft

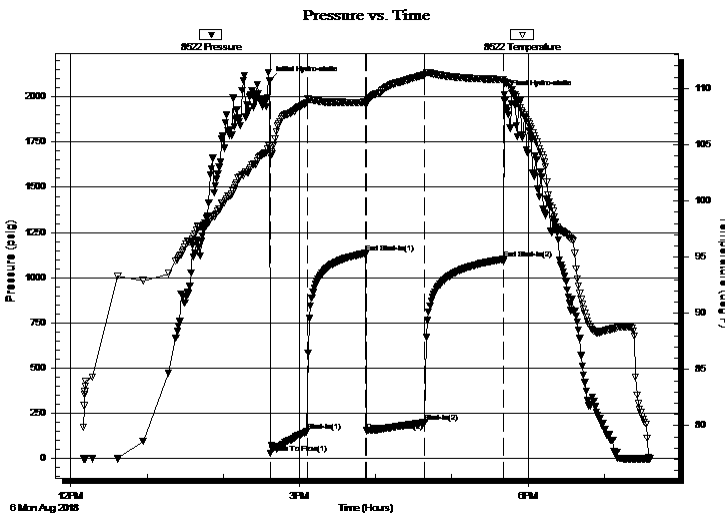
## Serial #: 8522

Inside

Press@RunDepth: 199.59 psig @ 4180.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.08.06 End Date: 2018.08.06 Last Calib.: 2018.08.06  
 Start Time: 12:10:05 End Time: 19:35:44 Time On Btm: 2018.08.06 @ 14:36:45  
 Time Off Btm: 2018.08.06 @ 17:41:30

TEST COMMENT: IF: 8 1/2" blow .  
 IS: No return.  
 FF: 10" blow .  
 FS: No return.

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2091.68         | 104.89       | Initial Hydro-static |
| 1           | 28.92           | 103.99       | Open To Flow (1)     |
| 30          | 148.04          | 108.79       | Shut-In(1)           |
| 76          | 1134.94         | 108.79       | End Shut-In(1)       |
| 77          | 151.40          | 108.71       | Open To Flow (2)     |
| 122         | 199.59          | 111.23       | Shut-In(2)           |
| 184         | 1101.36         | 110.81       | End Shut-In(2)       |
| 185         | 2013.44         | 110.58       | Final Hydro-static   |

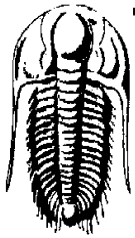
## Recovery

| Length (ft) | Description      | Volume (bbl) |
|-------------|------------------|--------------|
| 410.00      | somcw 1o 10m 89w | 3.24         |
|             |                  |              |
|             |                  |              |
|             |                  |              |
|             |                  |              |

## Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
|                |                 |                  |





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Landmark Resources, LLC

**3-16s-36w Wichita, KS**

4900 Woodway Dr. Ste 880  
Houston TX 77056

**Koehn #1-3**

Job Ticket: 64410

**DST#: 1**

ATTN: Terri Mcleod

Test Start: 2018.08.06 @ 12:10:00

## GENERAL INFORMATION:

Formation: **LKC H-I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:37:15

Time Test Ended: 19:35:45

**Interval: 4179.00 ft (KB) To 4260.00 ft (KB) (TVD)**

Total Depth: 4260.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Reference Elevations: 3281.00 ft (KB)

3270.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 8319**

**Outside**

Press@RunDepth: psig @ 4180.00 ft (KB)

Start Date: 2018.08.06

End Date: 2018.08.06

Start Time: 12:09:05

End Time: 19:35:14

Capacity: 8000.00 psig

Last Calib.: 2018.08.06

Time On Btm:

Time Off Btm:

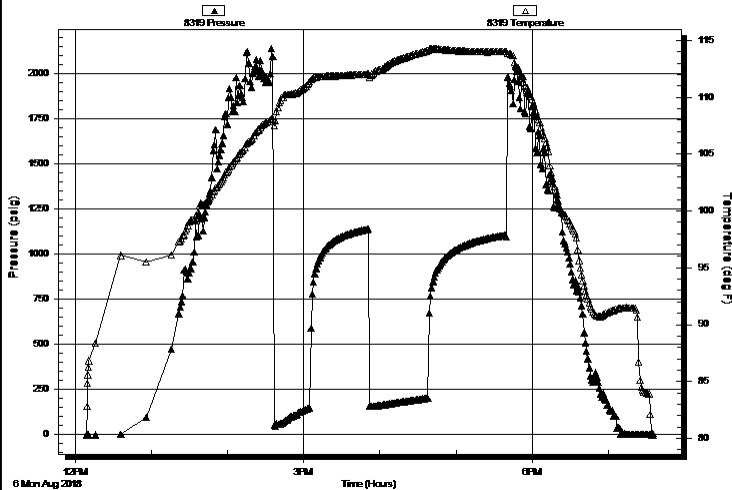
TEST COMMENT: IF: 8 1/2" blow .

IS: No return.

FF: 10" blow .

FS: No return.

Pressure vs. Time



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
|             |                 |              |            |
|             |                 |              |            |
|             |                 |              |            |

## Recovery

| Length (ft) | Description      | Volume (bbl) |
|-------------|------------------|--------------|
| 410.00      | somcw 1o 10m 89w | 3.24         |
|             |                  |              |
|             |                  |              |
|             |                  |              |
|             |                  |              |
|             |                  |              |

## Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
|                |                 |                  |



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Landmark Resources, LLC  
 4900 Woodway Dr. Ste 880  
 Houston TX 77056  
 ATTN: Terri Mcleod

**3-16s-36w Wichita,KS**  
**Koehn #1-3**  
 Job Ticket: 64410      **DST#: 1**  
 Test Start: 2018.08.06 @ 12:10:00

**Tool Information**

|                           |                    |                       |                                |                        |             |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe:               | Length: 3900.00 ft | Diameter: 3.80 inches | Volume: 54.71 bbl              | Tool Weight:           | 2500.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer:  | 25000.00 lb |
| Drill Collar:             | Length: 276.00 ft  | Diameter: 2.25 inches | Volume: 1.36 bbl               | Weight to Pull Loose:  | 83000.00 lb |
|                           |                    |                       | <u>Total Volume: 56.07 bbl</u> | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 24.00 ft           |                       |                                | String Weight: Initial | 68000.00 lb |
| Depth to Top Packer:      | 4179.00 ft         |                       |                                | Final                  | 70000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                                |                        |             |
| Interval between Packers: | 81.00 ft           |                       |                                |                        |             |
| Tool Length:              | 108.00 ft          |                       |                                |                        |             |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                        |             |

Tool Comments:

| <b>Tool Description</b> | <b>Length (ft)</b> | <b>Serial No.</b> | <b>Position</b> | <b>Depth (ft)</b> | <b>Accum. Lengths</b> |
|-------------------------|--------------------|-------------------|-----------------|-------------------|-----------------------|
|-------------------------|--------------------|-------------------|-----------------|-------------------|-----------------------|

|                 |       |      |         |         |                                    |
|-----------------|-------|------|---------|---------|------------------------------------|
| Change Over Sub | 1.00  |      |         | 4153.00 |                                    |
| Shut In Tool    | 5.00  |      |         | 4158.00 |                                    |
| Hydraulic tool  | 5.00  |      |         | 4163.00 |                                    |
| Jars            | 5.00  |      |         | 4168.00 |                                    |
| Safety Joint    | 2.00  |      |         | 4170.00 |                                    |
| Packer          | 5.00  |      |         | 4175.00 | 27.00      Bottom Of Top Packer    |
| Packer          | 4.00  |      |         | 4179.00 |                                    |
| Stubb           | 1.00  |      |         | 4180.00 |                                    |
| Recorder        | 0.00  | 8522 | Inside  | 4180.00 |                                    |
| Recorder        | 0.00  | 8319 | Outside | 4180.00 |                                    |
| Perforations    | 12.00 |      |         | 4192.00 |                                    |
| Change Over Sub | 1.00  |      |         | 4193.00 |                                    |
| Drill Pipe      | 63.00 |      |         | 4256.00 |                                    |
| Change Over Sub | 1.00  |      |         | 4257.00 |                                    |
| Bullnose        | 3.00  |      |         | 4260.00 | 81.00      Bottom Packers & Anchor |

**Total Tool Length: 108.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Landmark Resources, LLC

**3-16s-36w Wichita,KS**

4900 Woodway Dr. Ste 880  
Houston TX 77056

**Koehn #1-3**

Job Ticket: 64410

**DST#: 1**

ATTN: Terri Mcleod

Test Start: 2018.08.06 @ 12:10:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

40000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description      | Volume<br>bbl |
|--------------|------------------|---------------|
| 410.00       | somcw 1o 10m 89w | 3.237         |

Total Length: 410.00 ft      Total Volume: 3.237 bbl

Num Fluid Samples: 0

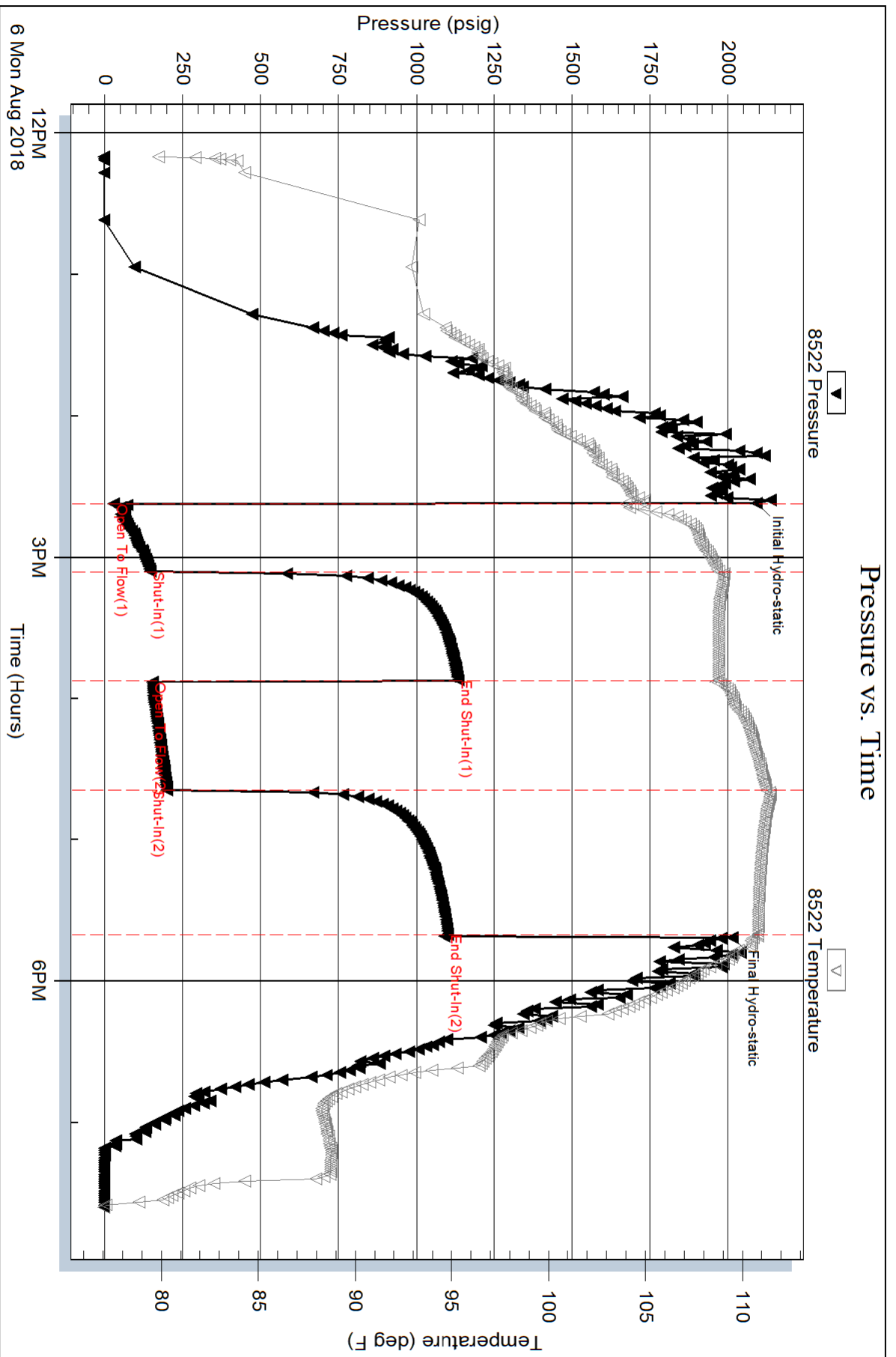
Num Gas Bombs: 0

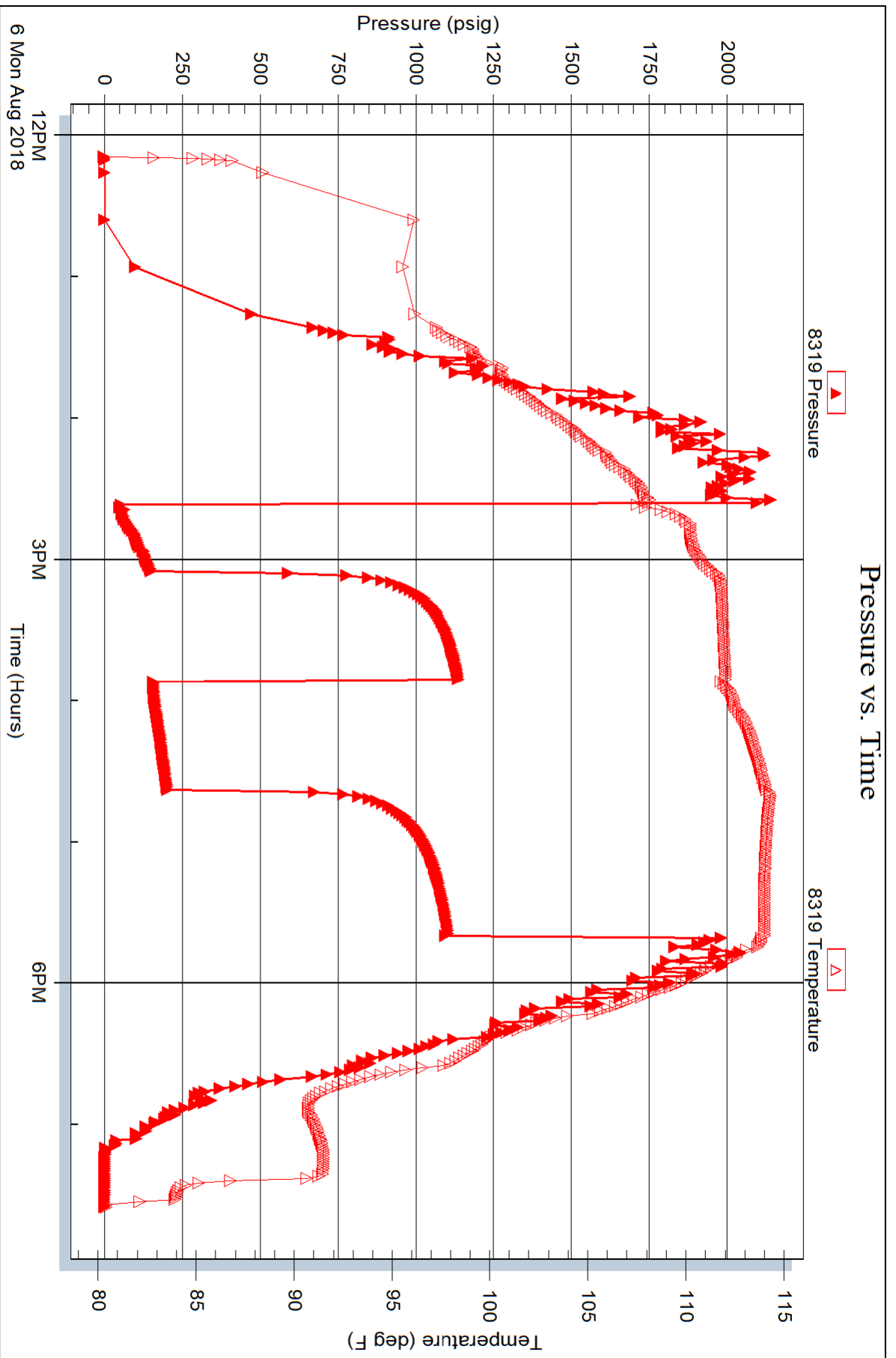
Serial #:

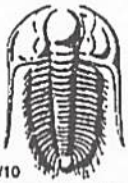
Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .141 @ 87f = 40000ppm







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 64410

Well Name & No. Koehn #1-3 Test No. 1 Date 8/06/2018  
 Company Landmark Resources, LLC Elevation 3281 KB 3270 GL  
 Address 4960 Woodway Rd Ste 880 Houston, TX 77056  
 Co. Rep / Geo. Terry McLeod Rig Morfin #21  
 Location: Sec. 3 Twp 15s Rge. 36w Co. Wichita State Ks

Interval Tested 2 4179-4260 Zone Tested LKC H-I  
 Anchor Length 81' Drill Pipe Run 3900 Mud Wt. 9.2  
 Top Packer Depth 4174 Drill Collars Run 276 Vis 56  
 Bottom Packer Depth 4179 Wt. Pipe Run Ø WL 8.0  
 Total Depth 4260 Chlorides 4400 ppm System LCM 1<sup>st</sup>

Blow Description IF 8 1/2" blow.  
ISI No return.  
FF 10" blow.  
FSI No return.

| Rec          | Feet of      | %gas | %oil     | %water    | %mud      |
|--------------|--------------|------|----------|-----------|-----------|
| <u>410</u>   | <u>50mcw</u> |      | <u>1</u> | <u>89</u> | <u>10</u> |
| Rec          | Feet of      | %gas | %oil     | %water    | %mud      |
| Rec          | Feet of      | %gas | %oil     | %water    | %mud      |
| Rec          | Feet of      | %gas | %oil     | %water    | %mud      |
| Rec <u>4</u> | Feet of      | %gas | %oil     | %water    | %mud      |

Rec Total 410 BHT 111 Gravity — API RW 141 @ 87 °F Chlorides 40,000 ppm  
 (A) Initial Hydrostatic 2092  Test 1150 T-On Location 1000  
 (B) First Initial Flow 29  Jars 250 T-Started 1210  
 (C) First Final Flow 148  Safety Joint 75 T-Open 1440  
 (D) Initial Shut-In 1134  Circ Sub N/C T-Pulled 1740  
 (E) Second Initial Flow 151  Hourly Standby \_\_\_\_\_ T-Out 1435  
 (F) Second Final Flow 200  Mileage X2 80 RT 160 Comments p/o Tool @ 1030  
 (G) Final Shut-In 1101  Sampler \_\_\_\_\_ 8/8  
 (H) Final Hydrostatic 2013  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_

Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 800  
 Initial Shut-In 45  Day Standby 1.5d 3h Total 2435  
 Final Flow 45  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60 Sub Total 1635

Approved By \_\_\_\_\_ Our Representative

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

