

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 <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample 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 <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <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: <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: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> | PRODUCTION INTERVAL: Top Bottom |
|---|---|------------------------------------|

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

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

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | GEMJ Enterprises, LLC |
| Well Name | GEMJ 1-24 |
| Doc ID | 1529013 |

Tops

| Name | Top | Datum |
|------------------|------|-------|
| Anhydrite | 2174 | +494 |
| Base/Anhydrite | 2207 | +461 |
| Topeka | 3322 | -654 |
| Heebner Shale | 3490 | -822 |
| Toronto | 3521 | -853 |
| Lansing | 3533 | -865 |
| Stark Shale | 3682 | -1014 |
| Base/Kansas City | 3733 | -1065 |
| Marmaton | 3746 | -1078 |
| Basal Penn Sand | 3880 | -1212 |
| Arbuckle | 3889 | -1221 |
| Reagan Sand | 3996 | -1328 |
| Granite | 4012 | -1344 |
| RTD | 4056 | -1388 |
| LTD | 4054 | -1386 |



Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: GEMJ #1-24
 API: 15-039-21270-00-00
 Location: E2 NW NW SE Sec 24 T2S R27W
 License Number:
 Spud Date: 8-4-2020
 Surface Coordinates: 2310' FSL & 2040' FEL
 Region: Decatur County, KS
 Drilling Completed: 8-11-2020
 Bottom Hole Coordinates: 2663
 Ground Elevation (ft): 2663
 Logged Interval (ft): 3150 To: TD
 Formation:
 Type of Drilling Fluid: Chemical Mud
 Surface Casing: 8 5/8" @ 303'
 Production Casing:
 K.B. Elevation (ft): 2668
 Total Depth (ft): 4056
 Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: GEMJ Enterprises
 Address: 105 N Griffith Ave
 Oberlin, KS 67749

GEOLOGIST

Name: Clayton Erickson
 Company: Erickson Wellsite Geology
 Address: 402 Palmer Street
 P.O. Box 294
 Loomis, NE 68958

DSTs

DST #1 3493-3560 30-60-30-60; Hydro: 1732-1594 IFF: 15-28 ISIP: 872 FFP: 30-41 FSIP: 833; Rec: 10' mud w/oil spots; BHT: 107F; IF: surface ISIP: dead FF: surface@5min FSI: dead
 DST #2 3550-3575 30-60-30-60; Hydro: 1773-1659 IFF: 64-66 ISIP: 144 FFP: 66-67 FSIP: 111; Rec: 65' mud; BHT: 104F; IF: dead @15min ISI: dead FF: dead FSI: dead; tool opened and slid 10' to bottom
 DST #3 3620-3723 30-60-30-60; Hydro: 1807-1733 IFF: 20-26 ISIP: 706 FFP: 28-31 FSIP: 564; Rec: 10' oil sptd mud; BHT: 107F; IF: 1/2" died to 1/4" ISI: Dead FF: dead FSI: Dead

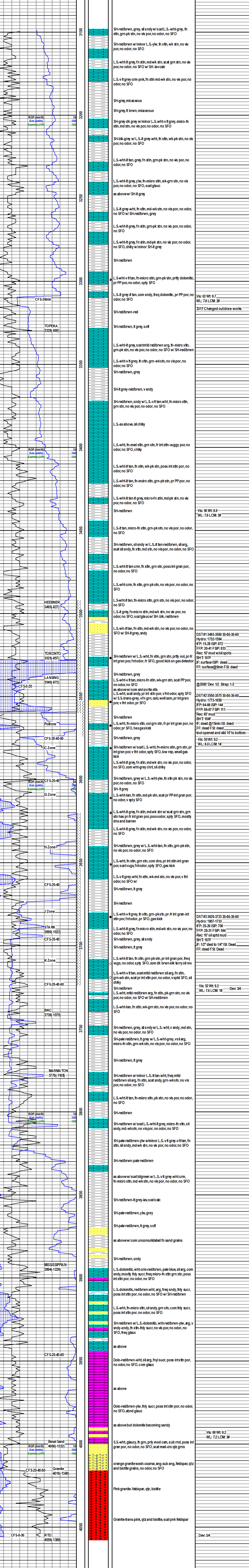
COMMENTS

FORMATION TOPS

| Log Tops | Sample tops |
|---------------|-------------|
| ANHYDRITE | |
| Base ANHY | 3328(-660) |
| TOPEKA | 3525(-857) |
| TORONTO | 3540(-872) |
| LANSING | 3738(-1070) |
| BKC | 3776(-1108) |
| MARMATON | 3894(-1226) |
| MISSISSIPPIAN | 4000(-1332) |
| Basal Sand | 4016(-1348) |
| Granite | 4056(-1388) |
| TD | |

| ROCK TYPES | | | |
|------------|-------------|------|-------|
| Anhy | Clyst | Gyp | Mrlst |
| Bent | Carb. shale | Igne | Salt |
| Brec | Arkose | Lmst | Shale |
| Cht | Dol | Meta | Shcol |
| | | | Shgy |
| | | | Silst |
| | | | Ss |
| | | | Till |

| OTHER SYMBOLS | | | |
|---------------|---------|------|----------|
| OIL SHOW | Spotted | Dead | INTERVAL |
| Even | Quies | | Dst |





DRILL STEM TEST REPORT

Prepared For: **Gem J Enterprises LLC**

105 N. Griffin Ave.
Oberlin KS 67749

ATTN: Clayton Erickson

Gem J #1-24

24-2s-27w Decatur,KS

Start Date: 2020.08.08 @ 18:22:00

End Date: 2020.08.09 @ 02:00:30

Job Ticket #: 66658 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.08.13 @ 15:33:30



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Gem J Enterprises LLC

24-2s-27w Decatur, KS

105 N. Griffin Ave.
Oberlin KS 67749

Gem J #1-24

Job Ticket: 66658

DST#: 1

ATTN: Clayton Erickson

Test Start: 2020.08.08 @ 18:22:00

GENERAL INFORMATION:

Formation: **Toronto - LKC " A "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:40:30

Time Test Ended: 02:00:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 71

Interval: 3493.00 ft (KB) To 3560.00 ft (KB) (TVD)

Reference Elevations: 2668.00 ft (KB)

Total Depth: 3560.00 ft (KB) (TVD)

2663.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8366 Outside

Press@RunDepth: 41.20 psig @ 3494.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.08.08

End Date:

2020.08.09

Last Calib.:

2020.08.09

Start Time: 18:22:01

End Time:

02:00:30

Time On Btm:

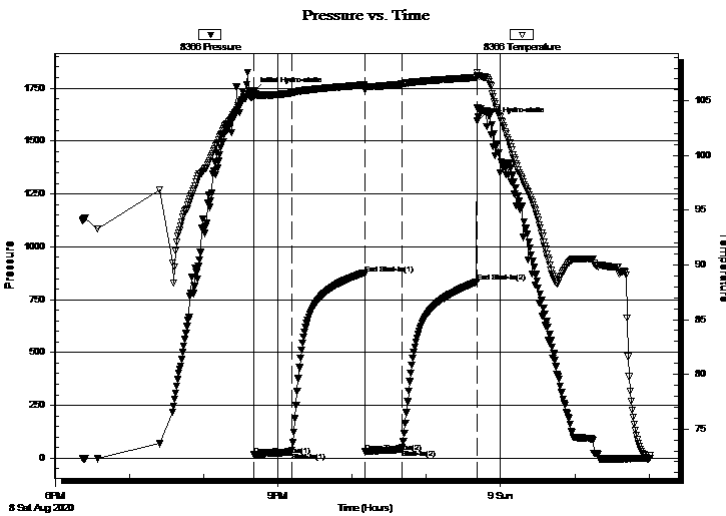
2020.08.08 @ 20:40:20

Time Off Btm:

2020.08.08 @ 23:41:00

TEST COMMENT: 30 IF - Surface blow
60 ISI - No return
30 FF - Surface blow started @ 5 mins
60 FSI - No return

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1732.02 | 105.96 | Initial Hydro-static |
| 1 | 15.47 | 105.30 | Open To Flow (1) |
| 31 | 28.33 | 105.72 | Shut-In(1) |
| 90 | 872.35 | 106.45 | End Shut-In(1) |
| 90 | 30.16 | 105.97 | Open To Flow (2) |
| 120 | 41.20 | 106.53 | Shut-In(2) |
| 181 | 833.16 | 107.14 | End Shut-In(2) |
| 181 | 1593.62 | 107.60 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------------|--------------|
| 10.00 | Mud w/oil spots in tool 100%M | 0.05 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Gem J Enterprises LLC

24-2s-27w Decatur,KS

105 N. Griffin Ave.
Oberlin KS 67749

Gem J #1-24

Job Ticket: 66658

DST#: 1

ATTN: Clayton Erickson

Test Start: 2020.08.08 @ 18:22:00

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 3294.00 ft | Diameter: 3.80 inches | Volume: 46.21 bbl | Tool Weight: | 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: | 20000.00 lb |
| Drill Collar: | Length: 180.00 ft | Diameter: 2.25 inches | Volume: 0.89 bbl | Weight to Pull Loose: | 70000.00 lb |
| | | | <u>Total Volume: 47.10 bbl</u> | Tool Chased | 10.00 ft |
| Drill Pipe Above KB: | 12.00 ft | | | String Weight: Initial | 52000.00 lb |
| Depth to Top Packer: | 3493.00 ft | | | Final | 52000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 67.00 ft | | | | |
| Tool Length: | 98.00 ft | | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Shut In Tool | 5.00 | | | 3467.00 | |
| Hydraulic tool | 5.00 | | | 3472.00 | |
| Jars | 5.00 | | | 3477.00 | |
| Gap Sub | 3.00 | | | 3480.00 | |
| Safety Joint | 3.00 | | | 3483.00 | |
| Packer | 5.00 | | | 3488.00 | 31.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3493.00 | |
| Stubb | 1.00 | | | 3494.00 | |
| Recorder | 0.00 | 8353 | Inside | 3494.00 | |
| Recorder | 0.00 | 8366 | Outside | 3494.00 | |
| Perforations | 28.00 | | | 3522.00 | |
| Blank Spacing | 33.00 | | | 3555.00 | |
| Perforations | 2.00 | | | 3557.00 | |
| Bullnose | 3.00 | | | 3560.00 | 67.00 Bottom Packers & Anchor |

Total Tool Length: 98.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gem J Enterprises LLC

24-2s-27w Decatur,KS

105 N. Griffin Ave.
Oberlin KS 67749

Gem J #1-24

Job Ticket: 66658

DST#: 1

ATTN: Clayton Erickson

Test Start: 2020.08.08 @ 18:22:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------------------------|---------------|
| 10.00 | Mud w /oil spots in tool 100%M | 0.049 |

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

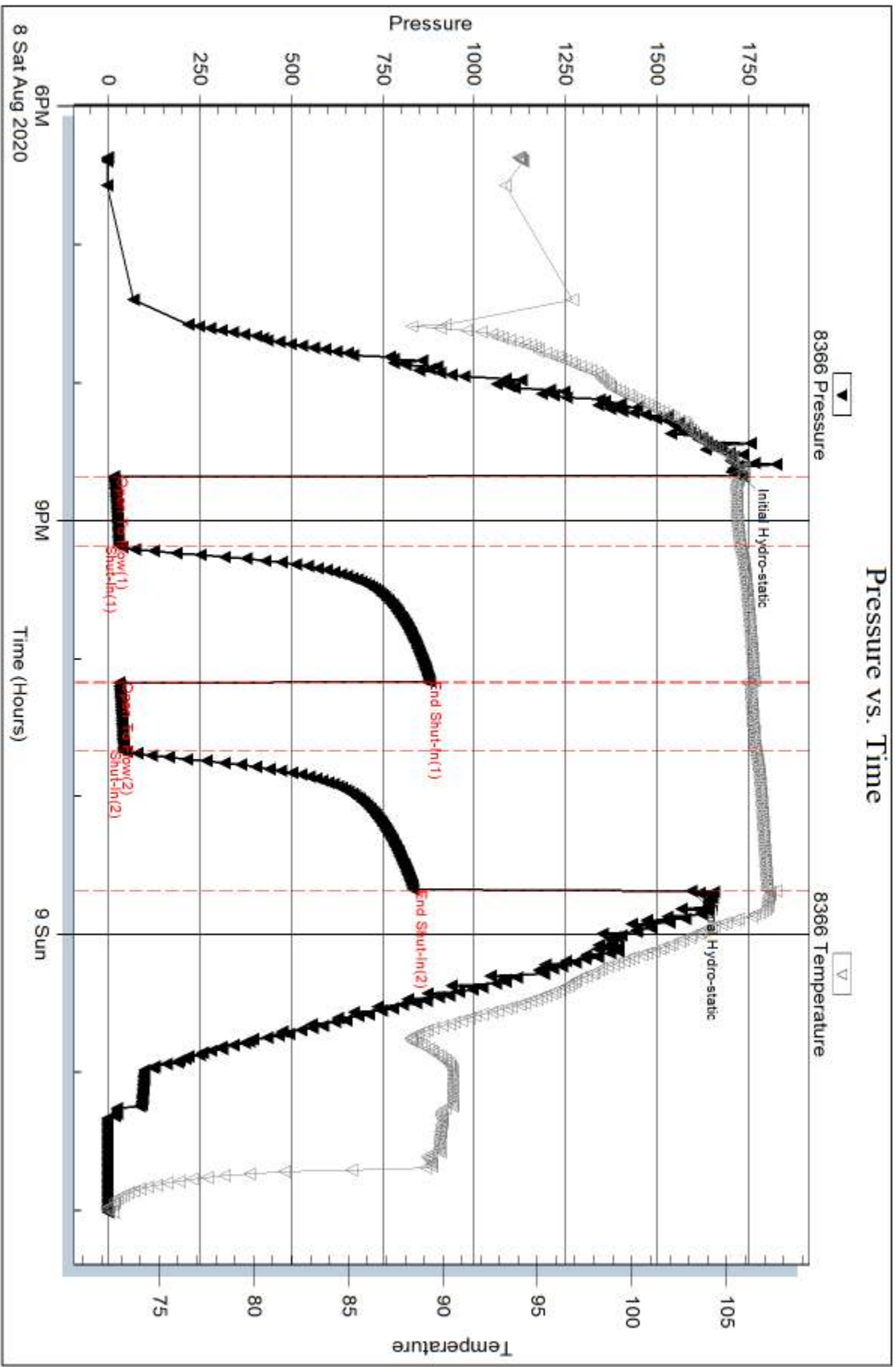
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Gem J Enterprises LLC**

105 N. Griffin Ave.
Oberlin KS 67749

ATTN: Clayton Erickson

Gem J #1-24

24-2s-27w Decatur,KS

Start Date: 2020.08.09 @ 08:50:00

End Date: 2020.08.09 @ 15:26:00

Job Ticket #: 66659 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.08.13 @ 15:32:53



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Gem J Enterprises LLC

24-2s-27w Decatur, KS

105 N. Griffin Ave.
Oberlin KS 67749

Gem J #1-24

Job Ticket: 66659

DST#: 2

ATTN: Clayton Erickson

Test Start: 2020.08.09 @ 08:50:00

GENERAL INFORMATION:

Formation: **Pollnow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:49:50

Time Test Ended: 15:26:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 71

Interval: 3550.00 ft (KB) To 3575.00 ft (KB) (TVD)

Reference Elevations: 2668.00 ft (KB)

Total Depth: 3575.00 ft (KB) (TVD)

2663.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8353

Inside

Press@RunDepth: 67.00 psig @ 3551.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.08.09

End Date:

2020.08.09

Last Calib.:

2020.08.09

Start Time: 08:50:01

End Time:

15:26:00

Time On Btm:

2020.08.09 @ 10:49:40

Time Off Btm:

2020.08.09 @ 13:49:00

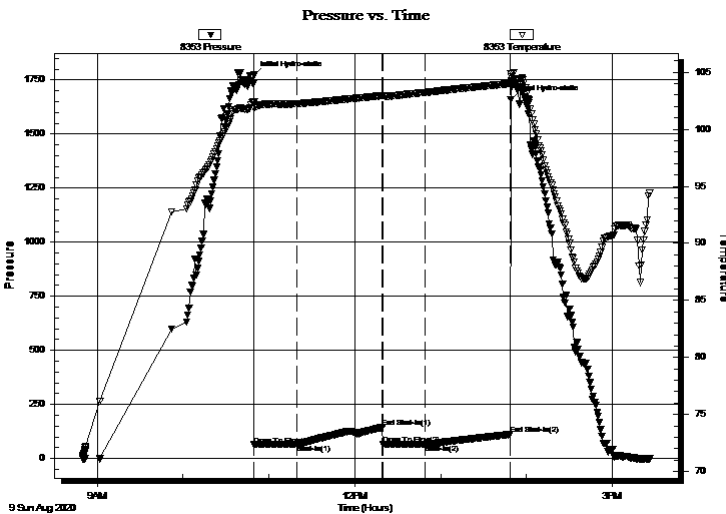
TEST COMMENT: 30 IF - Opened tool going through bridge 10' off bottom, reset tool, surface blow died @ 15 mins

60 ISI - No return

30 FF - No blow

60 FSI - No return

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1772.84 | 102.45 | Initial Hydro-static |
| 1 | 63.50 | 101.87 | Open To Flow (1) |
| 31 | 65.95 | 102.23 | Shut-In(1) |
| 90 | 144.13 | 102.95 | End Shut-In(1) |
| 91 | 65.80 | 102.92 | Open To Flow (2) |
| 120 | 67.00 | 103.23 | Shut-In(2) |
| 179 | 111.14 | 104.00 | End Shut-In(2) |
| 180 | 1659.01 | 104.90 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 65.00 | Mud 100%M | 0.32 |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Gem J Enterprises LLC

24-2s-27w Decatur, KS

105 N. Griffin Ave.
Oberlin KS 67749

Gem J #1-24

Job Ticket: 66659

DST#: 2

ATTN: Clayton Erickson

Test Start: 2020.08.09 @ 08:50:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3420.00 ft | Diameter: 3.80 inches | Volume: 47.97 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 20000.00 lb |
| Drill Collar: | Length: 118.00 ft | Diameter: 2.25 inches | Volume: 0.58 bbl | Weight to Pull Loose: 85000.00 lb |
| | | | <u>Total Volume: 48.55 bbl</u> | Tool Chased 10.00 ft |
| Drill Pipe Above KB: | 19.00 ft | | | String Weight: Initial 52000.00 lb |
| Depth to Top Packer: | 3550.00 ft | | | Final 52000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 25.00 ft | | | |
| Tool Length: | 56.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Shut In Tool | 5.00 | | | 3524.00 | |
| Hydraulic tool | 5.00 | | | 3529.00 | |
| Jars | 5.00 | | | 3534.00 | |
| Gap Sub | 3.00 | | | 3537.00 | |
| Safety Joint | 3.00 | | | 3540.00 | |
| Packer | 5.00 | | | 3545.00 | 31.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3550.00 | |
| Stubb | 1.00 | | | 3551.00 | |
| Recorder | 0.00 | 8353 | Inside | 3551.00 | |
| Recorder | 0.00 | 8366 | Outside | 3551.00 | |
| Perforations | 21.00 | | | 3572.00 | |
| Bullnose | 3.00 | | | 3575.00 | 25.00 Bottom Packers & Anchor |

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gem J Enterprises LLC

24-2s-27w Decatur,KS

105 N. Griffin Ave.
Oberlin KS 67749

Gem J #1-24

Job Ticket: 66659

DST#: 2

ATTN: Clayton Erickson

Test Start: 2020.08.09 @ 08:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 65.00 | Mud 100%M | 0.320 |

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0

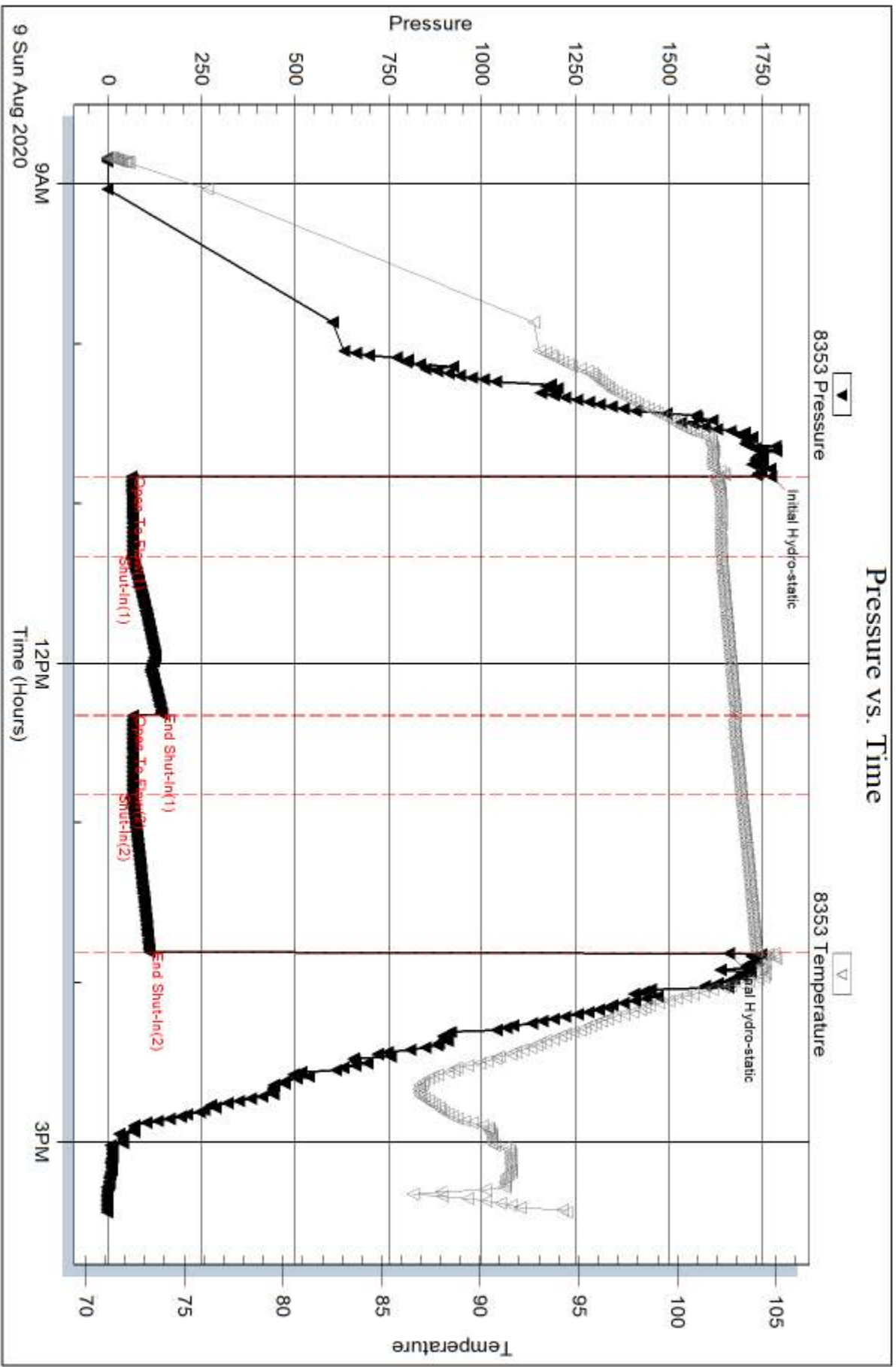
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Gem J Enterprises LLC**

105 N. Griffin Ave.
Oberlin KS 67749

ATTN: Clayton Erickson

Gem J #1-24

24-2s-27w Decatur,KS

Start Date: 2020.08.10 @ 08:09:00

End Date: 2020.08.10 @ 14:51:00

Job Ticket #: 66660 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.08.13 @ 13:35:05



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Gem J Enterprises LLC

24-2s-27w Decatur, KS

105 N. Griffin Ave.
Oberlin KS 67749

Gem J #1-24

Job Ticket: 66660

DST#: 3

ATTN: Clayton Erickson

Test Start: 2020.08.10 @ 08:09:00

GENERAL INFORMATION:

Formation: **LKC "H - K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:14:50

Time Test Ended: 14:51:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 71

Interval: 3620.00 ft (KB) To 3723.00 ft (KB) (TVD)

Reference Elevations: 2668.00 ft (KB)

Total Depth: 3723.00 ft (KB) (TVD)

2663.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8366 Outside

Press@RunDepth: 31.10 psig @ 3621.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.08.10

End Date:

2020.08.10

Last Calib.: 2020.08.10

Start Time: 08:09:01

End Time:

14:51:00

Time On Btm: 2020.08.10 @ 10:14:30

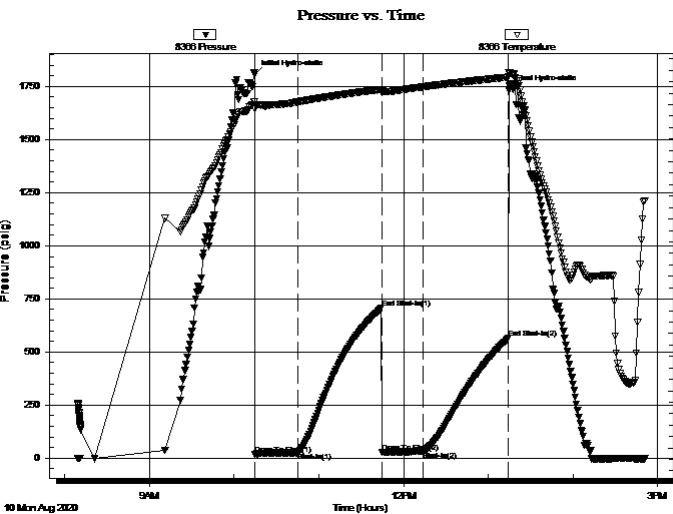
Time Off Btm: 2020.08.10 @ 13:14:30

TEST COMMENT: 30 IF - 1/4" blow built to 1/2" died back to 1/4"

60 ISI - No return

30 FF - No blow

60 FSI - No return



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1806.51 | 105.26 | Initial Hydro-static |
| 1 | 19.64 | 104.64 | Open To Flow (1) |
| 31 | 26.14 | 105.23 | Shut-In(1) |
| 90 | 706.21 | 106.33 | End Shut-In(1) |
| 91 | 28.01 | 106.07 | Open To Flow (2) |
| 120 | 31.10 | 106.54 | Shut-In(2) |
| 180 | 563.82 | 107.39 | End Shut-In(2) |
| 180 | 1733.20 | 107.81 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------|--------------|
| 10.00 | Oil spotted Mud 100%M | 0.05 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Gem J Enterprises LLC

24-2s-27w Decatur,KS

105 N. Griffin Ave.
Oberlin KS 67749

Gem J #1-24

Job Ticket: 66660

DST#: 3

ATTN: Clayton Erickson

Test Start: 2020.08.10 @ 08:09:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3482.00 ft | Diameter: 3.80 inches | Volume: 48.84 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 20000.00 lb |
| Drill Collar: | Length: 118.00 ft | Diameter: 2.25 inches | Volume: 0.58 bbl | Weight to Pull Loose: 65000.00 lb |
| | | | <u>Total Volume: 49.42 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 11.00 ft | | | String Weight: Initial 54000.00 lb |
| Depth to Top Packer: | 3620.00 ft | | | Final 54000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 103.00 ft | | | |
| Tool Length: | 134.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|--------------------------------|
| Shut In Tool | 5.00 | | | 3594.00 | |
| Hydraulic tool | 5.00 | | | 3599.00 | |
| Jars | 5.00 | | | 3604.00 | |
| Gap Sub | 3.00 | | | 3607.00 | |
| Safety Joint | 3.00 | | | 3610.00 | |
| Packer | 5.00 | | | 3615.00 | 31.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3620.00 | |
| Stubb | 1.00 | | | 3621.00 | |
| Recorder | 0.00 | 8353 | Inside | 3621.00 | |
| Recorder | 0.00 | 8366 | Outside | 3621.00 | |
| Perforations | 29.00 | | | 3650.00 | |
| Blank Spacing | 65.00 | | | 3715.00 | |
| Perforations | 5.00 | | | 3720.00 | |
| Bullnose | 3.00 | | | 3723.00 | 103.00 Bottom Packers & Anchor |

Total Tool Length: 134.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gem J Enterprises LLC

24-2s-27w Decatur,KS

105 N. Griffin Ave.
Oberlin KS 67749

Gem J #1-24

Job Ticket: 66660

DST#: 3

ATTN: Clayton Erickson

Test Start: 2020.08.10 @ 08:09:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-----------------------|---------------|
| 10.00 | Oil spotted Mud 100%M | 0.049 |

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

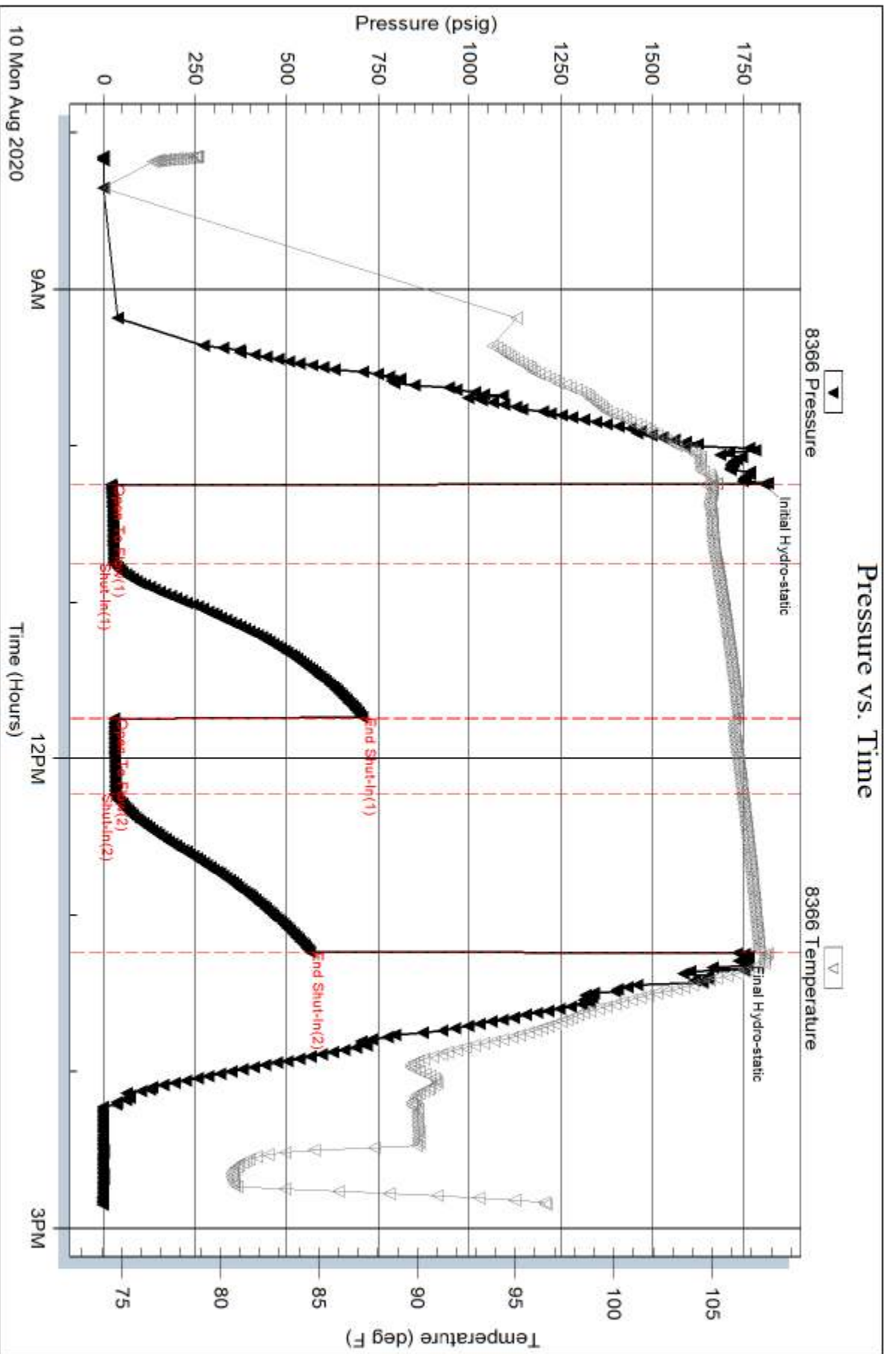
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



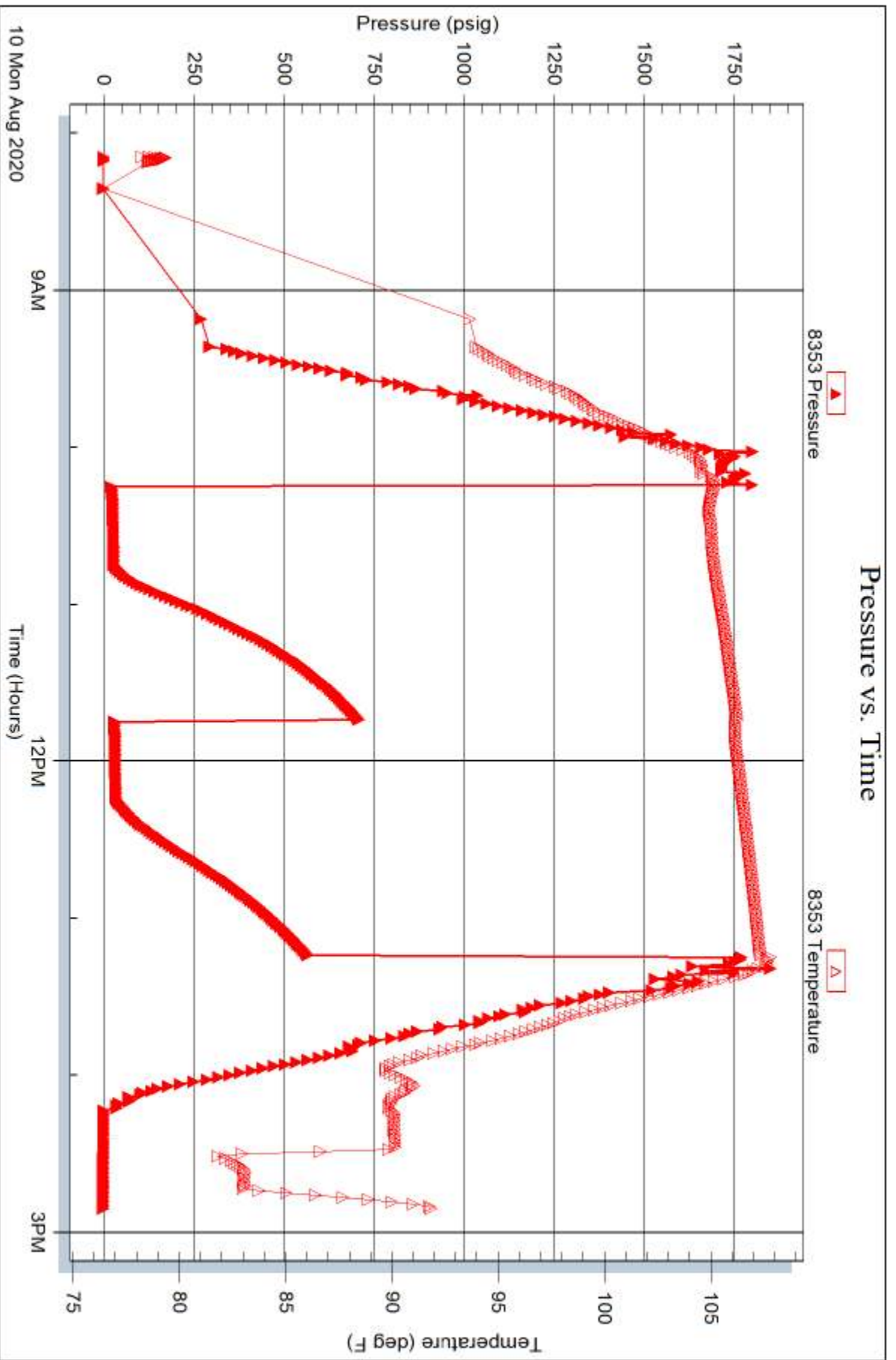
Serial #: 8353

Inside

Gem J Enterprises LLC

Gem J #1-24

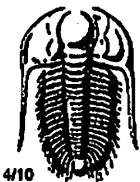
DST Test Number: 3



Triobite Testing, Inc

Ref. No: 66660

Printed: 2020.08.13 @ 13:35:06



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66658

NO. 25867

Well Name & No. Gem J #1-24 Test No. 1 Date 8/8/20
 Company Gem J Enterprises LLC Elevation 2668 KB 2663 GL
 Address 105 N. Griffin Ave. Oberlin KS 67749
 Co. Rep / Geo. Clayton Erickson Rig WW#108
 Location: Sec. 24 Twp 29 Rge. 27W Co. DeCATW State KS

Interval Tested 3493 - 3560 Zone Tested Talento - LKC "A"
 Anchor Length 67' Drill Pipe Run 3294' Mud Wt. 8.9
 Top Packer Depth 3488 Drill Collars Run ~~180~~ 180' Vis 56
 Bottom Packer Depth 3493 Wt. Pipe Run 0' WL 7.6
 Total Depth 3560 Chlorides 1000 ppm System LCM 2

Blow Description 30 IF - Surface blow
60 ISI - No return
30 FF - Surface blow started @ 5 mins
60 FSI - No return

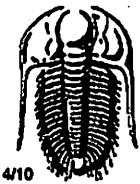
| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|-------------------------------|--------------|------|-------------|------|
| <u>10'</u> | <u>Mud w/oil spots in top</u> | <u>Spots</u> | | <u>100%</u> | |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 10' BHT 107° Gravity — API RW — @ — °F Chlorides — ppm

| | | |
|-------------------------------------|--|--|
| (A) Initial Hydrostatic <u>1732</u> | <input checked="" type="checkbox"/> Test <u>1200</u> | T-On Location <u>17:30</u> |
| (B) First Initial Flow <u>15</u> | <input checked="" type="checkbox"/> Jars <u>250</u> | T-Started <u>18:22</u> |
| (C) First Final Flow <u>28</u> | <input checked="" type="checkbox"/> Safety Joint <u>75</u> | T-Open <u>20:40</u> |
| (D) Initial Shut-In <u>872</u> | <input type="checkbox"/> Circ Sub | T-Pulled <u>23:40</u> |
| (E) Second Initial Flow <u>30</u> | <input type="checkbox"/> Hourly Standby | T-Out <u>01:45</u> |
| (F) Second Final Flow <u>41</u> | <input checked="" type="checkbox"/> Mileage <u>33 330 RT</u> | Comments <u>Slide 10'</u> |
| (G) Final Shut-In <u>833</u> | <input type="checkbox"/> Sampler | |
| (H) Final Hydrostatic <u>1594</u> | <input type="checkbox"/> Straddle | <input checked="" type="checkbox"/> EM Tool <u>350</u> |

| | | |
|---------------------------|---|--|
| Initial Open <u>30</u> | <input type="checkbox"/> Shale Packer | <input type="checkbox"/> Ruined Shale Packer |
| Initial Shut-In <u>60</u> | <input type="checkbox"/> Extra Packer | <input type="checkbox"/> Ruined Packer |
| Final Flow <u>30</u> | <input type="checkbox"/> Extra Recorder | <input type="checkbox"/> Extra Copies |
| Final Shut-In <u>60</u> | <input type="checkbox"/> Day Standby | Sub Total <u>0</u> |
| | <input type="checkbox"/> Accessibility | Total <u>1558</u> |
| | Sub Total <u>1558</u> | MP/DST Disc't |

Approved By _____ Our Representative [Signature]
 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66659

NO.

Well Name & No. Gem J # 1-24 Test No. 2 Date 8/19/20
 Company Gem J Enterprises LLC Elevation 2668 KB 2663 GL
 Address 105 N. Griffin Ave Oberlin KS 67749
 Co. Rep / Geo. Clayton Erickson Rig WW # 108
 Location: Sec. 24 Twp 25 Rge. 27w Co. Dacatur State KS

Interval Tested 3550 - 3575 Zone Tested Pollnow
 Anchor Length 25' Drill Pipe Run ~~3420~~ 3420 Mud Wt. 9.2
 Top Packer Depth 3545' Drill Collars Run ~~118~~ 118 Vis 50
 Bottom Packer Depth 3550' Wt. Pipe Run 0' WL 8.0
 Total Depth 3575' Chlorides 1200 ppm System LCM 1

Blow Description 30 IF - Open tool going through bridge 10' off bottom, reset tool, surface blow died @ 15 mins / 60 ISF - No return
30 FF - No blow
60 FST - No return

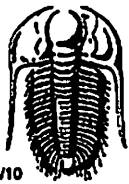
| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|------------|------|------|------------|------|
| <u>65'</u> | <u>Mud</u> | | | <u>100</u> | |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 65' BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

| | | |
|-------------------------------------|--|--|
| (A) Initial Hydrostatic <u>1273</u> | <input checked="" type="checkbox"/> Test <u>1200</u> | T-On Location <u>08:15</u> |
| (B) First Initial Flow <u>64</u> | <input checked="" type="checkbox"/> Jars <u>250</u> | T-Started <u>08:50</u> |
| (C) First Final Flow <u>66</u> | <input checked="" type="checkbox"/> Safety Joint <u>75</u> | T-Open <u>10:50</u> |
| (D) Initial Shut-In <u>144</u> | <input type="checkbox"/> Circ Sub _____ | T-Pulled <u>13:50</u> |
| (E) Second Initial Flow <u>66</u> | <input type="checkbox"/> Hourly Standby _____ | T-Out <u>15:15</u> |
| (F) Second Final Flow <u>67</u> | <input checked="" type="checkbox"/> Mileage <u>330 RT</u> | Comments _____ |
| (G) Final Shut-In <u>111</u> | <input type="checkbox"/> Sampler _____ | _____ |
| (H) Final Hydrostatic <u>1659</u> | <input type="checkbox"/> Straddle _____ | <input checked="" type="checkbox"/> EM Tool <u>350</u> |
| Initial Open <u>30</u> | <input type="checkbox"/> Shale Packer _____ | <input type="checkbox"/> Ruined Shale Packer _____ |
| Initial Shut-In <u>60</u> | <input type="checkbox"/> Extra Packer _____ | <input type="checkbox"/> Ruined Packer _____ |
| Final Flow <u>30</u> | <input type="checkbox"/> Extra Recorder _____ | <input type="checkbox"/> Extra Copies _____ |
| Final Shut-In <u>60</u> | <input type="checkbox"/> Day Standby _____ | Sub Total <u>0</u> |
| | <input type="checkbox"/> Accessibility _____ | Total <u>1558</u> |
| | Sub Total <u>1558</u> | MP/DST Disc't _____ |

Approved By _____ Our Representative Apr 2 Nink

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66660

NO.

Well Name & No. Gem J # 1-24 Test No. 3 Date 8/10/20
 Company Gem J Enterprises LLC Elevation 2668 KB 2663 GL
 Address 105 N. Griffin Ave Oberlin KS 67749
 Co. Rep / Geo. Clayton Erickson Rig WW # 108
 Location: Sec. 24 Twp 29 Rge. 27w Co. Decatur State KS

Interval Tested 3620 - 3723 Zone Tested LKC "4-K"
 Anchor Length 103' Drill Pipe Run 3482' Mud Wt. 9.2
 Top Packer Depth 3615 Drill Collars Run 118' Vis 52
 Bottom Packer Depth 3620 Wt. Pipe Run 0' WL 7.6
 Total Depth 3723 Chlorides 1200 ppm System LCM 1
 Blow Description 30 IF - ~~30 IF~~ built to 1/2" died back to 1/4"
60 ISI - No return
30 FF - No blow
60 FSI - No return

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|------------|--------------|------|------------|------|
| <u>10'</u> | <u>OSM</u> | <u>Spots</u> | | <u>100</u> | |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 10' BHT 107° Gravity — API RW — @ — F Chlorides — ppm

| | | |
|-------------------------------------|---|---|
| (A) Initial Hydrostatic <u>1807</u> | <input checked="" type="checkbox"/> Test 1200 | T-On Location <u>07:45</u> |
| (B) First Initial Flow <u>20</u> | <input checked="" type="checkbox"/> Jars 250 | T-Started <u>08:09</u> |
| (C) First Final Flow <u>26</u> | <input checked="" type="checkbox"/> Safety Joint 75 | T-Open <u>10:15</u> |
| (D) Initial Shut-In <u>706</u> | <input type="checkbox"/> Circ Sub | T-Pulled <u>13:15</u> |
| (E) Second Initial Flow <u>28</u> | <input type="checkbox"/> Hourly Standby | T-Out <u>14:45</u> |
| (F) Second Final Flow <u>31</u> | <input checked="" type="checkbox"/> Mileage <u>66 @ 33 RT X 2</u> | Comments <u>loaded tools @ 22:00 on 8/11/20</u> |
| (G) Final Shut-In <u>564</u> | <input type="checkbox"/> Sampler | |
| (H) Final Hydrostatic <u>1733</u> | <input type="checkbox"/> Straddle | <input checked="" type="checkbox"/> EM Tool 350 |
| Initial Open <u>30</u> | <input type="checkbox"/> Shale Packer | <input type="checkbox"/> Ruined Shale Packer |
| Initial Shut-In <u>60</u> | <input type="checkbox"/> Extra Packer | <input type="checkbox"/> Ruined Packer |
| Final Flow <u>30</u> | <input type="checkbox"/> Extra Recorder | <input type="checkbox"/> Extra Copies |
| Final Shut-In <u>60</u> | <input type="checkbox"/> Day Standby | Sub Total <u>0</u> |
| | <input type="checkbox"/> Accessibility | Total <u>1591</u> |
| | Sub Total <u>1591</u> | MP/DST Disc't <u>—</u> |

Approved By _____ Our Representative Roy 2 Kuhl
 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.



HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:
GEMJ ENTERPRISES
C/O GREG LONG
105 N GRIFFITH AVE
OBERLIN, KS 67749

Invoice Date: 8/4/2020
Invoice #: 0348642
Lease Name: GemJ
Well #: 1-24 (New)
County: Decatur, Ks
Job Number: ICT3905
District: Medicine Lodge

| Date/Description | HRS/QTY | Rate | Total |
|---------------------|---------|---------|----------|
| Surface | 0.000 | 0.000 | 0.00 |
| Cement Pozmix 60/40 | 220.000 | 9.100 | 2,002.00 |
| Calcium Chloride | 570.000 | 0.525 | 299.25 |
| Cello Flake | 55.000 | 1.225 | 67.38 |
| Light Eq Mileage | 75.000 | 1.400 | 105.00 |
| Heavy Eq Mileage | 75.000 | 2.800 | 210.00 |
| Ton Mileage | 713.000 | 1.050 | 748.65 |
| Cement Pump Service | 1.000 | 525.000 | 525.00 |

Total 3,957.28

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:

GEMJ ENTERPRISES
C/O GREG LONG
105 N GRIFFITH AVE
OBERLIN, KS 67749

Invoice Date: 8/11/2020
Invoice #: 0348778
Lease Name: GemJ
Well #: 1-24
County: Decatur, Ks
Job Number: ICT3951
District: Oakley

| Date/Description | HRS/QTY | Rate | Total |
|---------------------|---------|---------|----------|
| PTA | 0.000 | 0.000 | 0.00 |
| Cement Pump Service | 1.000 | 562.500 | 562.50 |
| Heavy Eq Mileage | 34.000 | 3.000 | 102.00 |
| Light Eq Mileage | 34.000 | 1.500 | 51.00 |
| Ton Mileage | 377.000 | 1.125 | 424.13 |
| H-Plug | 240.000 | 9.750 | 2,340.00 |
| Wooden plug 8 5/8" | 1.000 | 112.500 | 112.50 |

| | |
|--------------|-----------------|
| Net Invoice | 3,592.13 |
| Sales Tax: | 175.60 |
| Total | 3,767.73 |

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



CEMENT TREATMENT REPORT

| | | |
|---------------------------------------|---------------------------|---------------------------------|
| Customer: Gemj Enterprises LLC | Well: Gemj 1-24 | Ticket: lct 3951 |
| City, State: | County: Decatur Ks | Date: 8/11/2020 |
| Field Rep: | S-T-R: 46442 | Service: PLUG TO ABANDON |

| Downhole Information | | Calculated Slurry - Lead | | Calculated Slurry - Tail | |
|----------------------|------------------|--------------------------|---------------------------------|--------------------------|----------------------------|
| Hole Size: | 7.875 in | Blend: | H- PLUG | Blend: | |
| Hole Depth: | 4056 ft | Weight: | 13.8 ppg | Weight: | ppg |
| Casing Size: | 8 5/8 in | Water / Sx: | 6.9 gal / sx | Water / Sx: | gal / sx |
| Casing Depth: | 320 ft | Yield: | 1.43 ft³ / sx | Yield: | ft³ / sx |
| Tubing / Liner: | in | Annular Bbls / Ft.: | 0.0406 bbs / ft. | Annular Bbls / Ft.: | bbs / ft. |
| Depth: | ft | Depth: | 4056 ft | Depth: | ft |
| Tool / Packer: | | Annular Volume: | 164.7 bbls | Annular Volume: | 0 bbls |
| Tool Depth: | ft | Excess: | | Excess: | |
| Displacement: | 20.5 bbls | Total Slurry: | 61.1 bbls | Total Slurry: | 0.0 bbls |
| | | Total Sacks: | 240 sx | Total Sacks: | #DIV/0! sx |

| TIME | RATE | PSI | STAGE BBLs | TOTAL BBLs | REMARKS |
|-------|------|------|------------|------------|---|
| 1130P | | | - | - | GOT TO LOCATION |
| 1135P | | | - | - | SAFETY MEETING |
| 1140P | | | - | - | RIGGED UP TRUCKS |
| | | | - | - | RIGG WAS TRIPPING PIPE IN HOLE AND THEN HAD TO PULL 60 JOINTS |
| 136A | 3.0 | 50.0 | 5.0 | 5.0 | H2O AHEAD |
| 138A | 3.0 | 50.0 | 12.6 | 17.6 | 50 SKS OF H- PLUG @ 2200 FT |
| 142A | 3.0 | 50.0 | 5.0 | 22.6 | DISPLACED WITH H2O |
| | | | | 22.6 | FINISHED DISPLACING WITH RIG PUMP |
| 209A | 3.0 | 50.0 | 5.0 | 27.6 | H2O AHEAD |
| 211A | 3.0 | 50.0 | 25.5 | 53.1 | 100 SKS OF H- PLUG @ 1475 FT |
| 220A | 3.0 | 50.0 | 20.9 | 74.0 | DISPLACED WITH H2O |
| | | | | 74.0 | |
| 304A | 3.0 | 50.0 | 5.0 | 79.0 | H2O AHEAD |
| 306A | 3.0 | 50.0 | 12.6 | 91.6 | 50 SKS OF H- PLUG @ 350 FT |
| 311A | 3.0 | 50.0 | 5.0 | 96.5 | DISPLACED WITH H2O |
| | | | | 96.5 | |
| 411A | 3.0 | 50.0 | 7.6 | 104.1 | 30 SKS OF H- PLUG IN RH |
| 415A | 3.0 | 50.0 | 2.5 | 106.6 | 10 SKS OF H-PLUG IN TOP 40 FT |
| 420A | | | | 106.6 | PLUG DOWN |
| 425A | | | | 106.6 | WASHED UP PUMP TRUCK |
| 440A | | | | 106.6 | RIGGED DOWN TRUCKS |
| 500A | | | | 106.6 | OFF LOCATION |
| | | | | 106.6 | |
| | | | | 106.6 | |
| | | | | 106.6 | |
| | | | | 106.6 | |
| | | | | 106.6 | |
| | | | | 106.6 | |

| CREW | | UNIT | SUMMARY | | |
|----------------|-------------|------------|----------------|------------------|-----------------|
| Cementer: | Josh | 73 | Average Rate | Average Pressure | Total Fluid |
| Pump Operator: | John | 208 | 3.0 bpm | 50 psi | 107 bbls |
| Bulk #1: | Kale | 242 | | | |
| Bulk #2: | | | | | |