

**Inspection Report**  
**Mechanical Integrity Test**  
**Osage DNR / Environmental Protection Agency**  
**1201 Elm Street, Suite 500**  
**Dallas TX 75270**

|                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                        |                             |                                  |                |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------|----------------|
| <b>Inspector</b> Matthew Allen                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>MIT Date</b> 04/02/2025                                                                                                             |                             | <b>Time</b> 11:45                |                |
| <b>Operator Representative</b> NB Operating, LLC                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Report Sent Operator</b>                                                                                                            |                             |                                  |                |
| <b>Inject Interval</b> 2550 - 2558                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>USDW</b> 120                                                                                                                        |                             | <b>Well Type</b> Dual Completion |                |
| <b>Annulus Fluid Type</b><br>Casing 5.5                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Concentric Pkr Tubing</b> 2.375                                                                                                     |                             | <b>Packer Depth</b>              |                |
| <b>Operator Info</b><br>NB Operating, LLC<br>Post Office Box 14411<br>Tulsa, OK 74159<br>Phone: 918-857-0434 |                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Inventory ID</b> OS5175000<br><b>API Well No</b><br><b>Lease Name</b> Oliphant<br><b>Well ID</b> 3<br><b>Location</b> SE 25 24N 07E |                             |                                  |                |
| <b>Type of MIT</b> Ada Pressure Test                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Test Reason</b> Routine                                                                                                             |                             |                                  |                |
| <b>Injecting</b> N                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Injection Rate (bpd)</b>                                                                                                            |                             | <b>Tubular Lining</b>            |                |
| <b>MIT Due</b> 02/24/2024                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>MIT Freq</b> EVERY FIVE YEARS                                                                                                       |                             | <b>Ann Filled (hrs)</b>          |                |
|                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                        |                             | <b>Ann Press Mont</b>            |                |
| <b>Time</b>                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Tubing Pressure</b>                                                                                                                 |                             | <b>Annulus Pressure</b>          |                |
| <b>Pre-Test</b>                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                      | 65                                                                                                                                     |                             |                                  |                |
| <b>Initial</b>                                                                                               | 11:45                                                                                                                                                                                                                                                                                                                                                                                                                                | 1120                                                                                                                                   |                             | <b>Flowback</b>                  |                |
| <b>Mid</b>                                                                                                   | 12:00                                                                                                                                                                                                                                                                                                                                                                                                                                | 1100                                                                                                                                   |                             | <b>Pressure</b>                  |                |
| <b>Final</b>                                                                                                 | 12:15                                                                                                                                                                                                                                                                                                                                                                                                                                | 1100                                                                                                                                   |                             | <b>Volume</b>                    |                |
|                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                        |                             | <b>High</b>                      |                |
|                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                        |                             | <b>Mid</b>                       |                |
|                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                        |                             | <b>Low</b>                       |                |
|                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                        |                             | <b>End</b>                       |                |
|                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                        |                             | <b>Total Volume</b>              |                |
|                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>ADA Pressure Test - Required Test Pressure</b><br>(Fluid Column Ht * Specific Gravity * .433 / N2 Wt Fac = Required Test Pressure)  |                             |                                  |                |
|                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                        |                             | <b>Tubing</b>                    | <b>Annulus</b> |
|                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Depth to Top Perf/Open Hole</b>                                                                                                     |                             | 2550                             |                |
|                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Depth to Fluid Level</b>                                                                                                            |                             | 0                                |                |
|                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Fluid Column Level</b>                                                                                                              |                             | 2550                             |                |
|                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Specific Gravity of Fluid</b>                                                                                                       |                             | 1.06                             |                |
|                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Nitrogen Weight Factor</b>                                                                                                          |                             | 1.0914                           |                |
|                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Required Pressure Test</b>                                                                                                          |                             | 1137.38                          |                |
|                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Remedial Action Type</b>                                                                                                            |                             |                                  |                |
| <b>Fluid Migration Test Type</b>                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                        | <b>Remedial Action Type</b> |                                  |                |
| <b>Inspection Comments</b>                                                                                   | Well OS5175000 was observed with 65psig on tubing prior to the MIT. This 65psi was added to the calculated test pressure of 1072.38psi for a final required test pressure of 1137.38psi. The well achieved 1120psig, and fell off to 1100psig during the 30 minute observation period. At the time of the inspection, well OS5175000 was dual completed for gas production from the annulus and saltwater injection down the tubing. |                                                                                                                                        |                             |                                  |                |
| <b>Inspector Signature</b>                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                        |                             |                                  |                |
| <b>Supervisor Signature</b>                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                        |                             |                                  |                |

## Appendix 1

### Photograph Log 1 Photo



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 1

|                                 |                      |                 |
|---------------------------------|----------------------|-----------------|
| Location: 36.523948, -96.497737 |                      |                 |
| City: Hominy                    | County/Parish: Osage | State: Oklahoma |



**Photo File Name:** R0010634

**Orientation:** NNW

**Date of Photo:** 4/02/2025

**Time of Photo:** 12:24PM

**Latitude:** 36.523948

**Longitude:** -96.497737

**Photographer:** Matthew Allen

**Description:** This was well OS5175000 at the time of the inspection.