

**TREATMENT REPORT**



**HURRICANE SERVICES INC**

|              |                              |       |          |           |  |
|--------------|------------------------------|-------|----------|-----------|--|
| Customer:    | Grand Mesa operating company | Rate: | 9/8/2018 | Ticket #: |  |
| Field Rep:   |                              |       |          |           |  |
| Address:     | 1700 N. Waterfront Pkwy      |       |          |           |  |
| City, State: | Wichita, KS                  |       |          |           |  |
| County, Zip: | 67206                        |       |          |           |  |

|                  |                |               |            |            |  |
|------------------|----------------|---------------|------------|------------|--|
| Field Order No.: |                | Open Hole:    | 8900'      | Perf Depth |  |
| Well Name:       | Betty 1-15     | Casing Depth: |            |            |  |
| Location:        | Lincoln county | Casing Size:  | 5.5"       |            |  |
| Formation:       |                | Tubing Depth: |            |            |  |
| Type of Service: | Cement         | Tubing Size:  |            |            |  |
| Well Type:       | Oil            | Liner Depth:  |            |            |  |
| Age of Well:     | New            | Liner Size:   |            |            |  |
| DV Tool type:    | Plug operated  | Liner Top:    |            |            |  |
| DV tool Depth:   | 5226           | Liner Bottom: |            |            |  |
| Treatment Via:   |                | Total Depth:  | Shoe 41.17 |            |  |

| TIME          | INJECTION RATE |                                 | PRESSURE |         | REMARKS                                                       | PROP (lbs) |
|---------------|----------------|---------------------------------|----------|---------|---------------------------------------------------------------|------------|
|               | FLUID          | N <sub>2</sub> /CO <sub>2</sub> | STP      | ANNULUS |                                                               |            |
| 6:30 AM       |                |                                 |          |         | Arrive on location                                            |            |
| 6:35 AM       |                |                                 |          |         | Safety meeting                                                |            |
| 6:40 AM       |                |                                 |          |         | Rig up                                                        |            |
| 4:06 PM       |                |                                 |          |         | Run Casing                                                    |            |
| 8:01 PM       |                |                                 |          |         | Circulate 30 mins                                             |            |
| 11:30 PM      |                |                                 |          |         | Casing on bottom. Circulate 1 hr                              |            |
| 11:40 PM      |                |                                 |          |         | Ball through @ 1000 PSI                                       |            |
| 1:43 AM       | 4.0            |                                 | 180.0    |         | Mix 500 gals of Mudflush                                      |            |
| 1:48 AM       | 5.5            |                                 | 210.0    |         | Mix 396 sks of HTMD                                           |            |
| 2:40 AM       | 5.5            |                                 | 270.0    |         | Displace                                                      |            |
| 3:18 AM       |                |                                 |          |         | Plug landed @ 2200 psi. Final lift 1700 psi                   |            |
| 3:24 AM       | 1.0            |                                 | 1,000.0  |         | Open DV tool. Circulate 4 hrs Approx 20 bbls of cement to pit |            |
| 8:18 AM       | 2.0            |                                 | 50.0     |         | Plug Mouse and Rat with 10 sks                                |            |
| 8:21 AM       | 5.5            |                                 | 220.0    |         | Mix 266 of LTMD                                               |            |
| 8:40 AM       | 5.5            |                                 | 210.0    |         | Displace                                                      |            |
| 8:52 AM       |                |                                 |          |         | Plug Landed @ 1970 psi. Final Lift 1200 psi                   |            |
| 9:00 AM       |                |                                 |          |         | Wash up and Rig down                                          |            |
| 10:00 AM      |                |                                 |          |         | Depart                                                        |            |
| <b>TOTAL:</b> |                |                                 |          |         |                                                               |            |

| SUMMARY      |              |         |         |
|--------------|--------------|---------|---------|
| Max Fl. Rate | Avg Fl. Rate | Max PSI | Avg PSI |
| 5.5          | 4.1          | 1,000.0 | 305.7   |

| PRODUCTS USED                  |
|--------------------------------|
| 396 HTMD 276 LTMD Mudflush KCL |

Treater: Dave Retzlaff

Customer: \_\_\_\_\_