## State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

Ken McQueen Cabinet Secretary

Matthias Sayer Deputy Cabinet Secretary David R. Catanach, Division Director Oil Conservation Division



5/22/17 Date

API # 30-015-43892

Dear Operator:

I have this date performed a Mechanical Integrity Test on the GRAVITAS 2 STATE Sup # 2

1 If this test was successful the original chart has been retained by the NMOCD and will be scanned into the well's file in 7 to 10 days, pending receipt of the Form C-103 indicating the reason for this test. The well files are located at <u>www.emnrd.state.nm.us/ocd/OCDOnline.htm</u>

\_\_\_\_\_ If this test was unsuccessful the original chart has been returned to the operator pending repair and retest of the well, which must be accomplished within 90 days. If this is a test of a repaired well, previously in non-compliance, all dates and requirements of the original non-compliance are still in effect. No expectation of extension should be construed as a result of this test.

\_\_\_\_\_ If this test was for Temporary Abandonment include in your detailed description, on Form C-103, the location of the CIBP and any other tubular goods in the well, as well as your request for TA status. Include how long you are requesting the TA status for.

\_\_\_\_\_ If this is a successful test of a repaired well you must submit a form C-103 to NMOCD within 30 days. This C-103 must include a <u>detailed</u> description of the repair to the well. Only after receipt of the C-103 will the non-compliance be closed.

Let this is a successful Initial Test of an injection well you must submit a form C-103 to NMOCD within 30 days. This C-103 must include a <u>detailed</u> description of the work done on this well including the position of the packer, tubing information, the date of first injection, the tubing pressure and injection volume. Contact Karen Sharp at 575-748-1283 x109 to verify all required paperwork has been received before you can begin injection.

If I can be of additional service contact me at (575) 748-1283 ext 107.

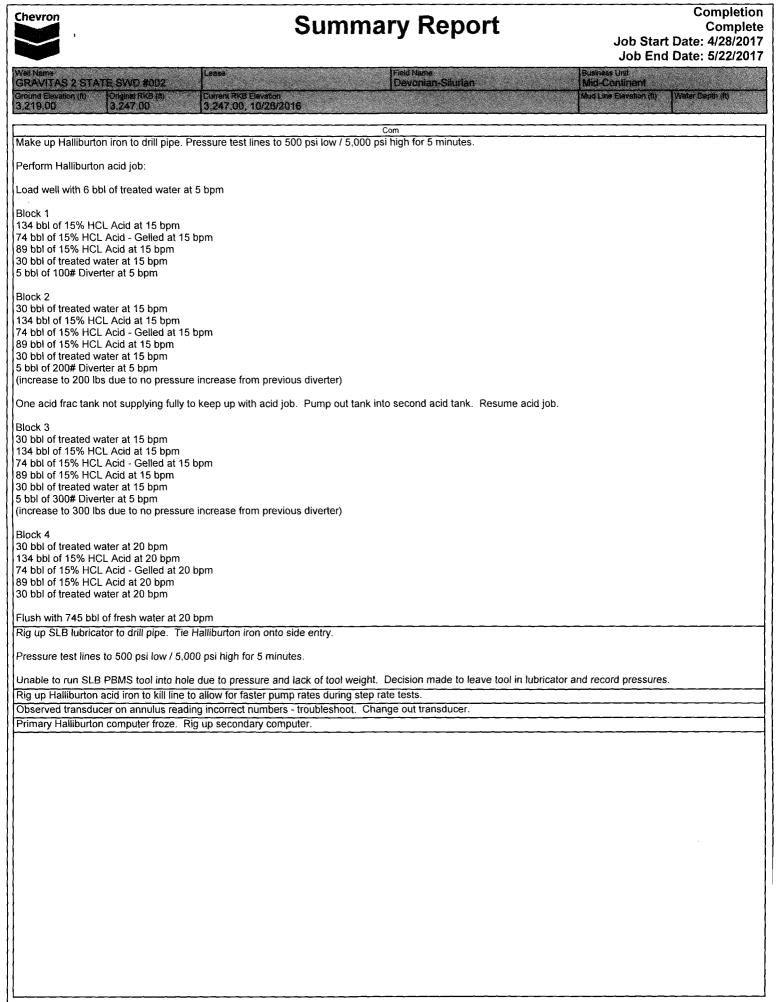
Thank You,

LUHADO NGE

Richard Inge Compliance Officer District II - Artesia

| Chevron  | Summary Report  | Completion<br>Complete<br>Job Start Date: 4/28/2017                      |
|--|---|--|
|  |   | Job Start Date: 4/26/2017<br>Job End Date: 5/22/2017                     |
| GRAVITAS 2 STATE SWD #002<br>Ground Elevation (ff) Original RKB (ff)                                       | Lease Field Name Devonian-Silurian  | Business Unit<br>Mid-Continent<br>Mud Line Elevation (t) Water Depth (t) |
|  | 3,247.00, 10/26/2016  |  |
| Report Start Date: 4/28/2017   | Com   |  |
| PU BHA #1, Bit, Scraper, Float Sub, 4-1/4<br>Rig Service. Lubricate Top Drive and CC                       |   |  |
| Chevron/Patterson IHE LOTO verified by<br>TIH F/930 T/13,923'  | Petro Safety Gage Burford   |  |
| Hole taking proper fill.<br>Pull up to 13,872', recording PU: 350k SC<br>Rot ttorque 7.5K w/pumps on & off | D: 290k.  |  |
| Begin pumping at 176 gpm, rotating at 30   | ) rpm.  |  |
|  | and through Landing Collar and Float Collar five times.   |  |
| No noticeable tight spots.<br>Circulate bottms up. Perform flow check.                                     |   |  |
| Spot 100 bbl of 10# brine cap outside of t   | Dit.  |  |
| Report Start Date: 4/29/2017   | Com   |  |
| Complete spotting 100 bbl of 10# brine ca<br>TOH F/13950' T/930  | ap outside of bit.  |  |
| Hole taking proper fill.<br>L/D BHA: L/D 3-1/2" HWDP, 4-1/4" DCs.  |   |  |
| Break bit, L/D scraper.  |   |  |
| Rig Service. Grease top drive, crown, blo<br>Wait on SLB wireline truck.                                   | ocks, and drawworks.  |  |
| Rig up Halliburton iron for upcoming acid<br>Halliburton mixed and cut acid to 15%.                        | job.  |  |
|  | Blue casing. Tenaris rep on site. Visually inspected threads. Did not drift.  |  |
| Rig up SLB wireline unit and lubricator in<br>RIH with CBL logging tool from surface T                     |   |  |
| Ground sheave on v-door position shifted made to use a clamp to support string an                          | with added weight of 10,000' of line. This caused the wire to rub on a pin on the slack off to safely remove pin. SLB did not have a clamp on location, had o | he sheave. Stopped the job. Decision ne delivered from Midland.          |
| RIH with CBL logging tool F/10,000' T/13   |   |  |
| Log F/13,950' T/13,000'. Corelate to Apo<br>Report Start Date: 4/30/2017                                   | lo CBL<br>Com   |  |
| POOH with CBL wireline tool  |   |  |
| Rig down SLB wireline and lubricator from<br>P/U Acid work string: 5-1/2" tricone bit, bit                 | n MPD system<br>t sub, BHI memory gauge carrier, XO, 3-1/2" DP, XO  |  |
| P/U 42 3-1/2" DP singles   |   |  |
| TIH on 5" DP T/9,311'<br>Pump 115bbl of 10# brine to balance wel   | l   |  |
| TIH F/9,311' T/13,972'<br>Circulate and condition well. Ensure 8.5   | ppg in and out.   |  |
| Fill frac tanks with fresh water.  |   |  |
| Rig up Halliburton acid equipment.   |   |  |
|  | pment. Rig up soft restraints on all hard lines.<br>Irton acid, flowback, and mud, SLB wireline   |  |
| Finalize rig up on Halliburton acid equipm   |   |  |
| · · · · · · · · · · · · · · · · · · ·  | sure test lines to 500 psi low / 5,000 psi high for 5 minutes   |  |
| Report Start Date: 5/1/2017  |   |  |
| <u> </u>   |   |  |

| Chevron   | Summary Report  | Completion<br>Complete<br>Job Start Date: 4/28/2017                        |
|---|---|--|
|   |   | Job End Date: 5/22/2017  |
| Weil Name Lesse   GRAVITAS 2 STATE SWD #002 Current RKB Elevation   Ground Elevation (b) Ohiginal RKB (b) Current RKB Elevation   3,219.00 3,247.00 3,247.00, 10/26/3 | Field Name<br>Devonian-Silurian<br>2016                           | Business Unit<br>Mid-Continent<br>Mud Line Elevation (ft) Water Depth (ft) |
| Perform injection test with Halliburton equipment:  | Com   |  |
| Annulus pressure before pumping: 110 psi  |   |  |
| 2 bpm<br>Annulus Pressure: 210 psi<br>Drill Pipe Pressure: 558  |   |  |
| 4 bpm<br>Annulus Pressure: 380 psi<br>Drill Pipe Pressure: 1,150 psi  |   |  |
| 8 bpm<br>Annulus Pressure: 1,300 psi<br>Drill Pipe Pressure: 2,100 psi  |   |  |
| 10 bpm<br>Annulus Pressure: 1,484 psi<br>Drill Pipe Pressure: 2,400 psi   |   |  |
| 15 bpm<br>Annulus Pressure: 1,554 psi<br>Drill Pipe Pressure: 3,440 psi   |   |  |
| Shut down pumps. After 5 minutes annulus pressure drop<br>Rig down Halliburton iron from drill pipe. Make up top driv   |   |  |
| Pump 24 bbl of 10# brine, chase with 30 bbl of fresh water  |   |  |
| TIH F/13,972 T/14,950 at 30 ft/min with MPD<br>Make up Halliburton iron to drill pipe.  |   |  |
| Pressure test lines to 500 psi low / 5,000 psi high for 5 mir   | nutes.  |  |
| <br>  Spot 20 bbl acid pill down drrill string in open hole with Hal  |   |  |
| Pump Rate: 10 bpm<br>Annulus Pressure: 1,500 psi<br>Drill Pipe Pressure: 2,300 psi  |   |  |
| Rig down Halliburton iron from drill pipe. Make up TD.  |   |  |
| Pump 30 bbl of 10# brine, chase with 20 bbl of fresh water  | r   |  |
| TOH F/14,950 T/13,972 at 30 ft/min with MPD<br>Rig up SLB wireline sheaves and stage lubricator with too  | I on floor in preparation to run PBMS tool down string after acid | job.   |
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| Well Name  |               | Job Start Date: 4/28/2017<br>Job End Date: 5/22/2017                       |
|--|---------------|--|
| GRAVITAS 2 STATE SWD #002   Ground Elevation (R) Original RKB (t) Current RKB Elevation   3,219.00 3,247.00 3,247.00, 10/26/   | 2016          | Business Unit<br>Mid-Continent<br>Mud Line Elevation (ft) Water Depth (ft) |
| Pressure test lines to 500 psi low / 5,000 psi high for 5 mir  | Com<br>nutes. |  |
| Line up down annulus and perform step rate test:   |               |  |
| 5 bpm for 30 minutes<br>Drill Pipe Pressure: 178 psi<br>Annulus Pressure: 235 psi  |               |  |
| 10 bpm for 30 minutes<br>Drill Pipe Pressure: 164 psi<br>Annulus Pressure: 558 psi   |               |  |
| 15 bpm for 30 minutes<br>Drill Pipe Pressure: 165 psi<br>Annulus Pressure: 914 psi   |               |  |
| 20 bpm for 30 minutes<br>Dríll Pipe Pressure: 183 psí<br>Annulus Pressure: 1511 psi  |               |  |
| 15 bpm for 10 minutes<br>Drill Pipe Pressure: 168 psi<br>Annulus Pressure: 930 psi   |               |  |
| 10 bpm for 10 minutes<br>Drill Pipe Pressure: 153 psi<br>Annulus Pressure: 921 psi   |               |  |
| 5 bpm for 10 minutes<br>Drill Pipe Pressure: 140 psi<br>Annulus Pressure: 470 psi<br>Shut down pumps and monitor pressures for 2 hours reco  |               |  |
| 10 min: 132 psi<br>20 min: 129 psi<br>30 min: 131 psi<br>40 min: 135 psi<br>50 min: 136 psi<br>60 min: 138 psi<br>70 min: 139 psi<br>80 min: 140 psi<br>100 min: 140 psi<br>110 min: 141 psi<br>120 min: 142 psi |               |  |
| R/D SLB wireline lubricator and sheaves on rig floor.<br>Begin R/D of Halliburton iron.  |               |  |
| Slip and cut drill line: 13 wraps / 130 feet.<br>Continue rigging down Halliburton.<br>Report Start Date: 5/2/2017   |               |  |
| Complete slip and cut drill line: 13 wraps / 130 feet.   | Com           |  |
| Continue rigging down Halliburton.<br>Finish rigging down Halliburton iron off rig floor and stand<br>Pump 120 bbl 9.8 ppg brine cap to balance well. Cap did  |               |  |
| Pump 120 bbl 9.8 ppg brine cap to balance well. Cap do<br>Pump second 120 bbl 9.8 ppg brine cap to balance well.<br>TOH F/13,972 T/13,192 laying down singles  |               | · · · · · · · · · · · · · · · · · · ·                                      |
| Monitor well on trip tank.<br>Build and pump 9.8 ppg brine cap to balance well<br>TOH F/13,192 T/10,879 laying down singles  |               |  |
| Monitor well on trip tank.<br>Rig service, change ST-80 hydraulic hose.<br>Repair different leaking hydraulic hose on ST-80.   |               |  |
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| Chevron  | Summary Report  | Completion<br>Complete<br>Job Start Date: 4/28/2017<br>Job End Date: 5/22/2017 |
|--|---|--|
| GRAVITAS 2 STATE SWD #002<br>Ground Elevation (ft) Original RKE (ft)                   | Lease Field Name Devonian-Silurian<br>Current RKB Elevation<br>3,247.00, 10/26/2016 | Businese Unit<br>Mid-Continent<br>Mud Line Elevation (ft) Water Deptify (ft)   |
| TOH F/10,879 T/3,496 laying down single  | Com<br>IS   |  |
| Monitor well on trip tank.   |   |  |
| Pump brine cap to balance well.  |   |  |
| TOH F/3,496' T/1,922 laying down single  | 3.  |  |
| Monitor well on trip tank.   |   |  |
| TIH 10 stands out of derrick F/1,922 T/2,8<br>TOH F/2,869' T/1,922 laying down single: |   |  |
|  |   |  |
| Monitor well on trip tank.<br>Report Start Date: 5/3/2017                              |   |  |
| Pull MPD rotating head, change elevators   | for 3-1/2" DP - fill out log book   |  |
| TOH F/1,922 to surface. L/D Baker Hugh   | es memory gauge, bit sub, and tricone bit.  |  |
| Monitor well on trip tank.   |   |  |
| Rig up SLB wireline and lubricator.  |   |  |
| Pump brine cap to balance well<br>Run 5 50" gauge ring on wireline (max O              | D on packer 5.468"). Could not get tool past 6-5/8" liner top at 13,196'. Discus    | s with office. Decision made to POOH   |
|  | D on packer 5.400 ). Could not get too past 0-5/0 miler top at 15,190. Discuss      | s with onice. Decision made to POON.   |
| Monitor well on trip tank.<br>P/U and RIH with Baker Hughes packer a                   | ssembly. Set down 3 times and was able to pass through liner hanger. Tie int        | to marker joint in liner with CCL.   |
| Set packer at 13,913'.   |   |  |
| 22 seconds until setting tool fired.<br>Observed 400 pounds of weight loss.            |   |  |
| Components left in hole:   |   |  |
| - Baker 80DA40/32 Model DA Packer<br>- 6' 3-1/2" YS 125 Inconel pup it                 |   |  |
| - 3.5" x 2.813" X Nipple   |   |  |
| - 6' 3-1/2" YS 125 Inconel pup jt<br>- 3.5" x 2.813" XN Nipple                         |   |  |
| - 6' 3-1/2" YS 125 Inconel pup it<br>- 3.5" Wireline entry guide with pump out         |   |  |
|  | ping  |  |
| Monitor well on trip tank.<br>R/D SLB wireline and lubricator                          |   |  |
| Pull wear bushing.   |   |  |
| Clear rig floor. L/D 3.5" rental equipment   |   |  |
| Perform static test.   |   |  |
| Monitor well on trip tank. Test good.<br>Completion engineer on site and approve       | d test.   |  |
| Continue to clear rig floor and prepare to   | run casing.   |  |
| Rig up casing running equipment.<br>Hold PJSM with Patterson, Franks, Tenar            | ic and Ducline  |  |
|  |   | • • • • • • • • •  |
| P/U seal assembly and RIH with Baker H tongs - test good.                              | ughes tech. P/U #1 4-1/2" 12.6# Tenaris Blue P110S joint and run in mouse ho        | ole. Perform dump test with casing   |
| Report Start Date: 5/4/2017  | Com   |  |
| Run 19 jts of 4-1/2" 12.6# Tenaris BLUE  |   | ······································   |
| Duoline installing seals and drifting every<br>Tenaris rep inspecting pipe and make up |   |  |
| Monitor well on trip tank - well static.   |   |  |
| P/U 4-1/2" csg x 5-1/2" csg XO and make  |   |  |
| Change out to 5-1/2" casing slips and ele  | vators. Fill out log book.  |  |
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**Company Confidential - Restricted** 

| Chevron .  | Summary Report   | Completion<br>Complete<br>Job Start Date: 4/28/2017<br>Job End Date: 5/22/2017 |
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| Well Name<br>GRAVITAS 2 STATE SWD #002<br>Ground Elevation (#) Original RKE (#)<br>3,219,00 3,247.00 | Devonian-Silurian  | Business Unit<br>Mid-Continent<br>Jud Line Elevation (fl) Water Depth (fl)     |
| R/D for rig move   | Com  |  |
| Clean pits with tank cleaners.   |  |  |
| Pin top drive. Unspool drill line. Clear rig   | floor. Lower V-door.   |  |
| Break down flare lines.<br>R/D for rig move  | ·  |  |
| Pull cables cables on grasshopper.   |  |  |
| Move V-door, catwalk, MI Swaco gas bu  | ster with crane.   |  |
| Continue breaking down flare lines.  |  |  |
| Rig released to HH SO 8 P2 14H at midr   | ight.  |  |
| Report Start Date: 5/17/2017   | Com  |  |
| WSI - Inactive   |  |  |
| V/U injection tree onto tubing head adap   | rtners, sign permits, and talk through plan for operation.<br>er.                    |  |
| Pull 5" BPV and install TWC.<br>Chartinjection tree shell test to 750/2780<br>Pull TWC and SIW.      | psi for 15/15 min. Tests good.   |  |
| NSI - Inactive<br>Report Start Date: 5/22/2017   | Com  |  |
| WSI - Inactive   |  |  |
|  | to 500 psi for 30 min. via calibrated analog chart recorder with Richard Inge from N | MOCD. Pass.  |
| Tie into tubing and pump out plug @ 220<br>Shut in Well.   | 0 psi.   |  |
| Note: Injection well immediately went on<br>Handover well to Art Carrasco with Facili                |  |  |
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| ********Final Report************************************   |  |  |
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