

Submit 3 Copies To Appropriate District Office
 District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 1301 W. Grand Ave., Artesia, NM 88210
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 May 27, 2004

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

| |
|---|
| WELL API NO. 30-015-28663 |
| 5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No. NM 01119 |

SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well Gas Well Other INJECTOR

2. Name of Operator EXXON MOBIL CORPORATION

3. Address of Operator
 P.O. BOX 4358, CORP-MI-0203, HOUSTON, TX 77210

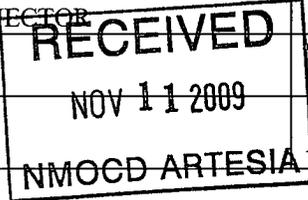
4. Well Location
 Unit Letter L: 1333 feet from the SOUTH line and 1107 feet from the WEST line
 Section 32 Township 20S Range 28E NMPM EDDY County

11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3648 GR
 3205' GR

Pit or Below-grade Tank Application or Closure

Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____



| |
|--|
| 7. Lease Name or Unit Agreement Name Avalon (Delaware) Unit |
| 8. Well Number 642 |
| 9. OGRID Number 7673 |
| 10. Pool name or Wildcat Avalon; Delaware 3715 |

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

| | | | |
|---|---|---|--|
| NOTICE OF INTENTION TO: | | SUBSEQUENT REPORT OF: | |
| PERFORM REMEDIAL WORK <input type="checkbox"/> | PLUG AND ABANDON <input type="checkbox"/> | REMEDIAL WORK <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| TEMPORARILY ABANDON <input type="checkbox"/> | CHANGE PLANS <input type="checkbox"/> | COMMENCE DRILLING OPNS. <input type="checkbox"/> | P AND A <input type="checkbox"/> |
| PULL OR ALTER CASING <input type="checkbox"/> | MULTIPLE COMPL <input type="checkbox"/> | CASING/CEMENT JOB <input type="checkbox"/> | |
| OTHER: <input checked="" type="checkbox"/> STEP RATE TEST PROCEDURE | | OTHER: TEMPORARY ABANDONMENT <input type="checkbox"/> | |

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Exxon Mobil requests approval to perform the attached "Step-Rate Test" to determine latest formation injection properties.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit or an (attached) alternative OCD-approved plan .

SIGNATURE Mark Del Pico TITLE STAFF REGULATORY SPECIALIST DATE 11/11/2009

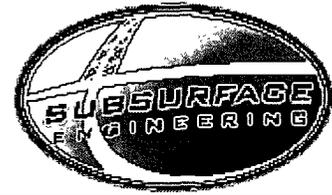
Type or print name MARK DEL PICO E-mail address: mark.delpico@exxonmobil.com Telephone No. 281-654-1926

For State Use Only

APPROVED BY: FELIX INAE TITLE COMPLIANCE OFFICER DATE 12/11/09
 Conditions of Approval (if any):



EXXONMOBIL US PRODUCTION
WELL WORK PROCEDURE
ADU 503, 238, 642, 516, 505, 507, 537, 523
Avalon Delaware Unit



CURRENT STATUS: Well is currently injecting.
Well will be shut in at least 48 hours prior to beginning of step-rate test.
ExxonMobil will contact NM OCD no less than 48 hours prior to beginning of test.

OBJECTIVE: Perform Step-Rate tests on water injectors to determine latest formation injection properties.

Risk Assessment:

Injection well. Producing wells in the area have been known to have ± 5000 ppm H₂S concentration in their flow stream. Caution should be taken to prevent un-expected H₂S exposure.

RECOMMENDED PROCEDURE:

1. Ensure ExxonMobil has notified NM OCD of step rate test (48 hours in advance) and shut in the well for a minimum of 48 hours prior to testing. Execute energy Isolation procedures on all equipment, machinery and valves associated within work scope.
 2. Check status of rig anchor test. Move in and rig up wireline unit and pump truck.
 3. Kill well by bull heading field salt water down tubing until assured well is dead.
 4. Nipple down tree. MIRU BOP and lubricator and test.
 5. Make wireline run to TD with a tool of analogous O.D. as down-hole pressure gauge to ensure that we have the clearance to run the pressure gauge.
 6. Set pressure gauge at appropriate depth (see Table 1 below). Consult attached wellbore diagrams for individual well down-hole configurations.
 7. Start injection at lowest rate (Step 1 of Table 2) and continue to inject at higher rates according to the specifications in Table 2 (below). Each step will last one hour (8 hours total pump time).
 8. Finish final step rate and stop pumping. Ensure well is dead. Keep kill (or pump) truck on location as needed. ND BOP and lubricator; NU WH.
 9. RDMO wireline unit and pump truck; RWTI. Return well to previous injection state. NM OCD needs to review the test data before an increase in injection rate or pressure can be approved and implemented.
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ADU Step-Rate Tests

| Well | U. Cherry Perfs | | U. Brushy Perfs | | Gauge Depth |
|------|-----------------|--------------|-----------------|--------------|-------------|
| | Top ft | Bottom ft | Top ft | Bottom ft | |
| 238 | 2632 | 2754 | 3428 | 3604 | 2582 |
| 503 | 2628 | 2704 | 3486 | 3666 | 2578 |
| 505 | 2546 | 2662 | 3514 | 3564 | 2578 |
| 507 | 2498 | 2610 | 3426 | 3600 | 2448 |
| 516 | 2576 | 2690 | 3602 | 3670 | 2526 |
| 523 | 2556 | 2682 | 3542 | 3738 | 2506 |
| 537 | 2544 | 2688 | 3586 | 3642 | 2494 |
| 642 | 2534 | 2668 | 3646 | 3678 | 2484 |

Table 1: Step-Rate Test Information

| Well | Inj Water Rate bpd | Inj Pressure psi | Step 1 30% | | Step 2 60% | | Step 3 90% | | Step 4 120% | | Step 5 150% | | Step 6 180% | | Step 7 210% | | Step 8 240% | | Total Bbls for Test bbls |
|------|-----------------------|---------------------|---------------|---------|---------------|---------|---------------|---------|----------------|---------|----------------|---------|----------------|---------|----------------|---------|----------------|---------|-----------------------------|
| | | | Bbl/d | Bbls/hr | Bbl/d | Bbls/hr | Bbl/d | Bbls/hr | Bbl/d | Bbls/hr | Bbl/d | Bbls/hr | Bbl/d | Bbls/hr | Bbl/d | Bbls/hr | Bbl/d | Bbls/hr | |
| 238 | 475 | 480 | 142.5 | 6 | 285 | 12 | 427.5 | 18 | 570 | 24 | 712.5 | 30 | 855 | 36 | 997.5 | 42 | 1140 | 48 | 214 |
| 503 | 430 | 430 | 129 | 5 | 258 | 11 | 387 | 16 | 516 | 22 | 645 | 27 | 774 | 32 | 903 | 38 | 1032 | 43 | 194 |
| 505 | 240 | 480 | 72 | 3 | 144 | 6 | 216 | 9 | 288 | 12 | 360 | 15 | 432 | 18 | 504 | 21 | 576 | 24 | 108 |
| 507 | 215 | 480 | 64.5 | 3 | 129 | 5 | 193.5 | 8 | 258 | 11 | 322.5 | 13 | 387 | 16 | 451.5 | 19 | 516 | 22 | 97 |
| 516 | 350 | 480 | 105 | 4 | 210 | 9 | 315 | 13 | 420 | 18 | 525 | 22 | 630 | 26 | 735 | 31 | 840 | 35 | 158 |
| 523 | 175 | 460 | 52.5 | 2 | 105 | 4 | 157.5 | 7 | 210 | 9 | 262.5 | 11 | 315 | 13 | 367.5 | 15 | 420 | 18 | 79 |
| 537 | 240 | 480 | 72 | 3 | 144 | 6 | 216 | 9 | 288 | 12 | 360 | 15 | 432 | 18 | 504 | 21 | 576 | 24 | 108 |
| 642 | 200 | 480 | 60 | 3 | 120 | 5 | 180 | 8 | 240 | 10 | 300 | 13 | 360 | 15 | 420 | 18 | 480 | 20 | 90 |

Table 2: Injection Test Specifications for All 8 Wells