

Submit 1 Copy To Appropriate District Office
 District I - (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II - (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III - (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV - (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised August 1, 2011

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

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.)		WELL API NO. 30-015-02160
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator QUANTUM RESOURCES MANAGEMENT, LLC		6. State Oil & Gas Lease No.
3. Address of Operator 1400 MCKINNEY ST. SUITE 2400 HOUSTON, TX 77010		7. Lease Name or Unit Agreement Name STATE 647 AC 711
4. Well Location Unit Letter <u>H</u> : <u>1650</u> feet from the <u>N</u> line and <u>990</u> feet from the <u>E</u> line Section <u>33</u> Township <u>18S</u> Range <u>28E</u> NMPM <u>EDDY</u> County		8. Well Number <u>83</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		9. OGRID Number <u>243874</u>
10. Pool name or Wildcat ARTESIA - Q - RB - SA		

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

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input checked="" type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> DOWNHOLE COMMINGLE <input type="checkbox"/>		SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P. AND <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent information of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For more information visit www.emnrd.state.nm.us Current forms are available on our website and should be used when filing regulatory documents.

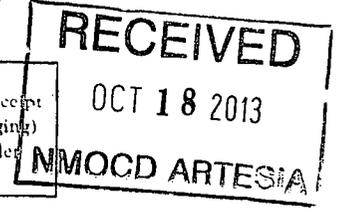
MIRU RIG. NU BOP.
 SPOT 25 SX CMT AT 2550'. WOC AND TAG.
 CIRC HOLE W/ MUD LADEN FLUID.
 PERFORATE AT 600' AND CIRCULATE CMT TO SURFACE INSIDE/OUTSIDE 7" CSG.
 CUT OFF WELLHEAD AND INSTALL DRY HOLE MARKER.

CONDITIONS OF APPROVAL ATTACHED

Spud Date: Approval Granted providing work is Completed by

10/22/2013

Approved for plugging of well bore only. Liability under bond is retained pending receipt of C-103 (Subsequent Report of Well Plugging) which may be found at OCD Web Page under Date: www.emnrd.state.nm.us/oed



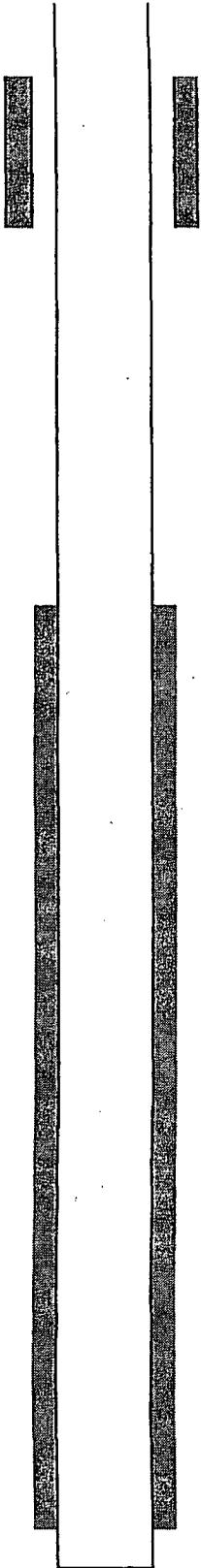
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Ben Montgomery TITLE Agent DATE 10-17-13
 Type or print name Ben Montgomery E-mail address: benmontgomery@quantumresources.com PHONE: 932-580-7161
 For State Use Only
 APPROVED BY: RD Dade TITLE Dist. Supervisor DATE 10/22/2013
 Conditions of Approval (if any):

* See Attached COA's

QUANTUM RESOURCES MST, LLC
STATE 647 AC 711 # 83

CURRENT



8 5/8" @ 550' w/ 50 sx. Pulled top 250' out of hole.

7" @ 2600' w/ 100 sx. TOC calc at 741'.

TD 2905'

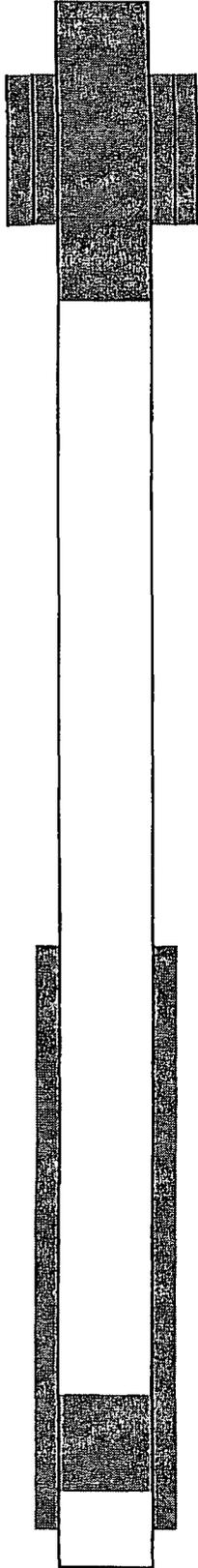
QUANTUM RESOURCES MST, LLC
STATE 647 AC 711 # 83

PROPOSED

CUT OFF WELLHEAD & INSTALL DRY HOLE MARKER

PERF @ 600'. CIRC CMT TO SURFACE.

8 5/8" @ 550' w/ 50 sx. Pulled top 250' out of hole.



SPOT 30 SX AT 2550'. WOC & TAG.

7" @ 2600' w/ 100 sx. TOC calc at 741'.

TD 2905'

NEW MEXICO OIL CONSERVATION DIVISION
DISTRICT 2 OFFICE
811 S. FIRST STREET
ARTESIA, NM 88210
(575)748-1283

CONDITIONS OF APPROVAL FOR PLUGGING & ABANDONMENT

Operator: Quantum

Well Name & Number: State 647 AC 711 #83

API #: 30-015-02160

1. Produced water **will not** be used during any part of the plugging & abandonment operation.
2. Notify NMOCD Dist. 2 office at least 24 hrs before beginning work.
3. Closed Loop System is to be used for entire plugging operation. Upon completion, contents of steel pit are to be hauled to a permitted disposal location.
4. Trucking companies being used to haul oilfield waste fluids to a disposal – commercial or private – shall have an approved NMOCD C-133 permit. A copy of this permit shall be available in each truck used to haul waste products. It is the responsibility of the operator, as well as the contractor, to verify that this permit is place prior to performing work. Drivers shall produce a copy upon request of NMOCD Field Inspectors.
5. A subsequent C-103 will serve as notification that the well bore has been plugged **ONLY**. A C-103 **FINAL** shall be filed before any bonding can be released on the well. Upon receipt of the Final, an inspection will be performed to verify that the location has been satisfactorily cleaned to NMOCD standards.
6. If work has not begun within 90 days of the approval of this procedure, an extension request must be filed, stating reason that well has not been plugged.
7. Every attempt must be made to clean the well bore out to below the perms, before any plugs can be set, by whatever means possible.
8. **Cement Retainers may not be used.**

9. Squeeze pressures are not to exceed 500 PSI, unless approval is given by NMOCD.
10. Plugs may be combined after consulting with and getting approval from NMOCD.
11. Minimum WOC time for tag plugs will be 4 Hrs.

DATE: 10/22/2013

APPROVED BY: *RDade*

GUIDELINES FOR PLUGGING AND ABANDONMENT

DISTRICT II / ARTESIA

- All cement plugs will be a minimum of 100' in length or a minimum of 25 sacks of cement, whichever is greater.
- Mud laden fluids must be placed between all cement plugs.
- Mud laden fluids must be mixed at 25 sacks of gel per 100 bbls of water.
- A cement plug is required to be set 50' below and 50' above all casing shoes and casing stub plugs. These plugs must be tagged.
- A CIBP with 35' of cement on top may be set in lieu of 100' cement plug.
- A plug as indicated above must be placed within 100' of top perforation. This plug must be tagged.
- Plugs set below and above salt zones must be tagged.
- No more than 2000' is to be allowed between cement plugs in open hole and no more than 3000' in cased hole.
- DV tools are required to have a 100' cement plug set 50' above and below the tool and must be tagged.

- Formations to be isolated with plugs placed at the top of each formation are:
 - Fusselman
 - Devonian
 - Morrow
 - Wolfcamp
 - Bone Spring
 - Delaware
 - Any Salt Section (Plug at top and bottom)
 - Abo
 - Glorieta
 - Yates (this plus is usually at base of salt section)

- If cement does not exist behind casing strings at recommended formation depths, the casing must be cut and pulled with plugs set at these depths or casing must be perforated and cement squeezed behind casing at the formation depths.
- In the R-111-P area (Potash Mine area) a solid cement plug must be set across the salt section. Fluid used to mix the cement shall be saturated with the salts common to the section. Fluid shall be penetrated and in suitable proportions, but not more than a 3% calcium chloride by weight of cement will be considered the desired mixture whenever possible (50' below and 50' above).