

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

WELL API NO. 30-015-02544
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name ARTESIA UNIT
8. Well Number 62
9. OGRID Number 243874
10. Pool name or Wildcat ARTESIA - Q - RB - SA
11. Elevation (Show whether DR, RKB, RT, GR, etc.)

**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

2. Name of Operator  
QUANTUM RESOURCES MANAGEMENT, LLC

3. Address of Operator  
1400 MCKINNEY ST. SUITE 2400 HOUSTON, TX 77010

4. Well Location  
 Unit Letter    P    : 992 feet from the    S    line and    997    feet from the    E    line  
 Section    3    Township 18S Range 28E NMPM EDDY County

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

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input checked="" 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"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple proposed completion or recompletion.

MIRU RIG. NU BOP.  
 SET CIBP AT 2225'. CIRC W/ MUD LADEN FLUID  
 SPOT 25 SX CMT ON CIBP.  
 PERFORATE AT 595' AND CIRCULATE CMT TO SURFACE INSIDE/OUTSIDE 5 1/2" CSG.  
 CUT OFF WELLHEAD AND INSTALL DRY HOLE MARKER.

www.emnrd.state.nm.us  
 Current forms are available on our website and should be used when filing regulatory documents.

CONDITIONS OF APPROVAL ATTACHED

Approval Granted providing work is Completed by

Oct 22, 2014

Rig Release Date

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 Forms. 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

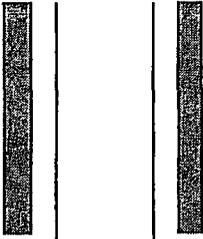
Type or print name Ben Montgomery For State Use Only E-mail address: benmont@emeraldassociates.com PHONE: 932-586-7161

APPROVED BY: R. Wade TITLE DIST. H. Sepewist DATE 10/22/2013

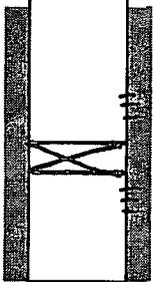
Conditions of Approval (if any):  
 \* See Attached COA's

QUANTUM RESOURCES MST, LLC  
ARTESIA UNIT # 62

CURRENT



8 5/8" @ 545' w/ 40 sx.



Perfs 2275'-2349'

CIBP @ 2370'

Perfs 2390'-2398'

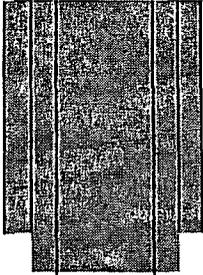
5 1/2" @ 2433' w/ 160 sx. TOC calc at 1214 '.

TD 2512'

QUANTUM RESOURCES MST, LLC  
ARTESIA UNIT # 62

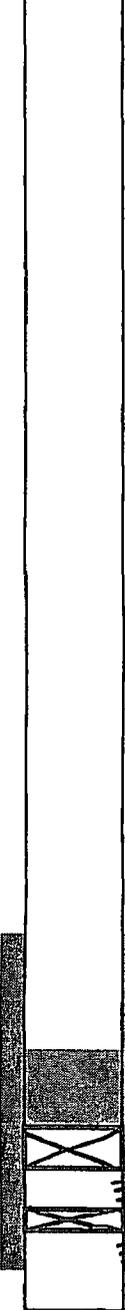
PROPOSED

CUT OFF WELLHEAD & INSTALL DRY HOLE MARKER



8 5/8" @ 545' w/ 40 sx.

PERF AT 595'. CIRC CEMENT TO SURFACE.



CALCULATED TOC 1214'

SET CIBP AT 2225'. CAP W/ 25 SX.

Perfs 2275'-2349'

CIBP @ 2370' Above perfs from 2390'-2398'  
5 1/2" @ 2433' w/ 160 sx. TOC calc at 1214'.

TD 2512'

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: ARTESIA Unit 62

API #: 30-015-02544

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 in 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 perfs, 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: Oct 23, 2013

APPROVED BY: *AL Debe*

## 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 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).