

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
NMNM039880

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well  
 Oil Well  Gas Well  Other

8. Well Name and No.  
GHOST RIDER 22 15 FEDERAL COM 103H

2. Name of Operator **APACHE CORPORATION** Contact: **SORINA FLORES**  
E-Mail: **sorina.flores@apachecorp.com**

9. API Well No.  
30-025-46892-00-X1

3a. Address **303 VETERANS AIRPARK LANE SUITE 3000  
MIDLAND, TX 79705** 3b. Phone No. (include area code)  
Ph: **432-818-1167**

10. Field and Pool or Exploratory Area  
TRISTE DRAW-BONE SPRING

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**Sec 15 T24S R32E NESW 2282FSL 2331FWL  
32.216591 N Lat, 103.663513 W Lon**

11. County or Parish, State  
**LEA COUNTY, NM**

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Change to Original APD
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

NMB000736

Apache proposes to chg Intermediate csg to case off a loss zone w/9-5/8" csg so production section has better success with well control issues in 1st BS formation. Changes as follows:

OLD CSG: Hole: 12-1/4"  
MD: 0' TVD: 0' MD setting: 4830' Btm setting TVD: 4793'  
Csg: 9-5/8" J-55 40# LTC New API standard  
Collapse: 2 Burst: 1.96 Body tensil: Buoyant 2.19 Joint tensil: Buoyant 1.82

OLD CMT Single Stage:  
LEAD: Top MD: 0' Btm MD: 3864'

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #512372 verified by the BLM Well Information System  
For APACHE CORPORATION, sent to the Hobbs  
Committed to AFMSS for processing by OLABODE AJIBOLA on 04/23/2020 (20AO0001SE)**

Name (Printed/Typed) **SORINA FLORES**

Title **SUBMITTING CONTACT**

Signature (Electronic Submission)

Date **04/23/2020**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By OLABODE AJIBOLA

Title **PETROLEUM ENGINEER**

Date **04/23/2020**

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office **Hobbs**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

Accepted - KMS NMOC

## Additional data for EC transaction #512372 that would not fit on the form

### 32. Additional remarks, continued

640sx Cl C w/10% NaCl, 6% gel, 1% premagM, 0.3% defoamer, 0.4% retarder (2.32yld,12.7ppg)  
volume:1484.8 Excess: 25%  
TAIL: Top MD: 3864' Btm MD: 4830'  
300sx Cl C w/0.1% retarder (1.33yld,14.8ppg) volume: 399 Excess: 25%

OLD CMT 2 stage cmt contingency:  
1ST STAGE: LEAD: Top MD: 2280' Btm MD: 3864'  
315sx Cl C w/10% NaCl, 6% gel, 1% premagM, 0.3% defoamer, 0.4% retarder (2.32yld,12.7ppg)  
volume:730.8 Excess: 25%  
TAIL: Top MD: 3864' Btm MD: 4830'  
300sx Cl C w/0.1% retarder (1.33yld,14.8ppg) volume: 399 Excess: 25%  
STAGE TOOL/ECP DEPTH: +/- 2280'

2ND STAGE: LEAD: Top MD: 0' Btm MD: 1600'  
260sx Cl C w/10% NaCl, 6% gel, 1% premagM, 0.3% defoamer, 0.4% retarder (2.32yld,12.7ppg)  
volume:603.2 Excess: 25%  
TAIL: Top MD: 1600' Btm MD: 2280'  
200sx Cl C w/0.1% retarder (1.33yld,14.8ppg) vol: 266 Excess: 25%

NEW CSG: Hole: 12-1/4"  
MD: 0' TVD: 0' MD settting: 8905' Btm setting TVD: 8844'  
Csg: 9-5/8" HCL-80 40# Butress New API standard  
Collapse: 1.21 Burst: 1.28 Body tensil:Buoyant 1.93 Joint tensil:Buoyant 2.01

NEW CMT 1st stage Cmt:  
1ST STAGE: LEAD: Top MD: 1200' Btm MD: 7905'  
1053sx 50/50 PozC C w/5% strength modifier, 0.1% free wtr control, 5% thixotropic additive, 3%  
suspension aid, 0.6% fluid loss, 0.4% defoamer, 1.2% retarder (2.71yld,11ppg) volume:2853.63  
Excess: 25%  
TAIL: Top MD: 7905' Btm MD: 8905'  
360sx 25/75 PozH w/2% gelling agent, 0.4% fluid loss additive, 0.3% dispersant, 0.1% retarder  
(1.14yld,14.8ppg) vol: 410.4 Excess: 25%

STAGE TOOL/ECP DEPTH: +/- 1200'

2ND STAGE: LEAD: Top MD: 0' Btm MD: 520'  
LEAD: Top MD: 0' Btm MD: 520'  
104sx Cl C w/0.4% suspension agent,1% retarder(1.66yld,13.5ppg) vol:1.72.64 Excess: 25%  
TAIL: Top MD: 520' Btm MD: 1200'  
200sx Cl C w/0.1% retarder(1.33yld,14.8ppg) Vol: 266 Excess: 25%

New Mud: Interm: Brine emulstion-min:8.8 Max 10.5 Prod-min: 9.3 Max:10.5

## Revisions to Operator-Submitted EC Data for Sundry Notice #512372

	<b>Operator Submitted</b>	<b>BLM Revised (AFMSS)</b>
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM039880	NMNM039880
Agreement:		
Operator:	APACHE CORPORATION 303 VETERANS AIRPARK LN #1000 MIDLAND, TX 79705 Ph: 432-818-1167	APACHE CORPORATION 303 VETERANS AIRPARK LANE SUITE 3000 MIDLAND, TX 79705 Ph: 432.818.1000 Fx: 432-818-1190
Admin Contact:	SORINA FLORES SUBMITTING CONTACT E-Mail: sorina.flores@apachecorp.com  Ph: 432-818-1167	SORINA FLORES SUBMITTING CONTACT E-Mail: sorina.flores@apachecorp.com  Ph: 432-818-1167
Tech Contact:	SORINA FLORES SUBMITTING CONTACT E-Mail: sorina.flores@apachecorp.com  Ph: 432-818-1167	SORINA FLORES SUBMITTING CONTACT E-Mail: sorina.flores@apachecorp.com  Ph: 432-818-1167
Location:		
State:	NM	NM
County:	LEA	LEA
Field/Pool:	TRISTE DRAW; BONESPRING	TRISTE DRAW-BONE SPRING
Well/Facility:	GHOST RIDER 22 15 FEDERAL COM 103H Sec 15 T24S R32E Mer NMP NESW 2282FSL 2331FWL 32.216589 N Lat, 103.663515 W Lon	GHOST RIDER 22 15 FEDERAL COM 103H Sec 15 T24S R32E NESW 2282FSL 2331FWL 32.216591 N Lat, 103.663513 W Lon

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	APACHE CORPORATION
<b>LEASE NO.:</b>	NMNM0039880
<b>WELL NAME &amp; NO.:</b>	GHOST RIDER 22 15 FEDERAL COM 103H
<b>SURFACE HOLE FOOTAGE:</b>	2282'/S & 2331'/W
<b>BOTTOM HOLE FOOTAGE:</b>	50'/S & 1795'/W
<b>LOCATION:</b>	Section 15, T.24 S., R.32 E., NMP
<b>COUNTY:</b>	Lea County, New Mexico

COA

H2S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input type="radio"/> Multibowl	<input checked="" type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input checked="" type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit

**All Previous COAs Still Apply.**

### A. CASING

#### Casing Design:

1. The **13-3/8** inch surface casing shall be set at approximately **980** feet (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

**Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.**

2. The **9-5/8** inch intermediate casing shall be set at approximately **8844** feet. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

**Option 1 (Single Stage):**

- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Excess cement calculates to 15%, additional cement might be required.**

**Option 2:**

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
  - b. Second stage above DV tool:
    - Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Excess cement calculates to 3%, additional cement might be required.**
3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
    - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

## **B. PRESSURE CONTROL**

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2.

### **Option 1:**

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **5000 (5M)** psi.

### **Option 2:**

1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

## C. SPECIAL REQUIREMENT (S)

### **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

**OTA04232020**