

UNITED STATES **OCD Artesia**  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

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

**SUBMIT IN TRIPLICATE** – Other instructions on page 2.

5. Lease Serial No.  
**NMLC-029435A**

6. If Indian, Allottee or Tribe Name

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

1. Type of Well  
 Oil Well     Gas Well     Other

8. Well Name and No.  
**RAVEN FEDERAL #1 <39330>**

2. Name of Operator  
**APACHE CORPORATION <873>**

9. API Well No.  
**30-015-40465**

3. Address  
**303 VETERANS AIRPARK LN, #3000  
MIDLAND, TX 79705**

3b. Phone No. (include area Code)  
**432-818-1117 / 432-818-1198**

10. Field and Pool or Exploratory Area  
**CEDAR LAKE; GLORIETA-YESO <96831>**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**UL: SEC 7, T17S, R31E, 2190' FSL & 990' FWL**

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

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input 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 checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<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
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<b>DRILLING OPS:</b>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	<b>CASING &amp; CEMENT</b>
				<b>REPORT</b>

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 directional or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attached 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.

Bond No: **BLM-CO-1463**

*Wade 12/13/12*  
Accepted for record  
NMOC

**10/3/2012 – SPUD**

**10/4/2012 - 13-3/8" Surface, 17.5" Hole, H-40, #48 ST&C Csg @ 375' (262 sx cmt to surf):**

Lead: 520 sx Class C w/ 1% CaCl2 + 0.25% R38 (14.8 wt, 1.34 yld)

Comp Strengths : **12 hr – 813 psi    24 hr – 1205 psi**    Surf Csg Pressure Test: 1200psi/30 min-OK

REPORT CONTINUED ON PAGE 2.

**RECEIVED**  
**DEC 11 2012**  
**NMOC ARTESIA**

14. I hereby certify that the foregoing is true and correct.  
Name (Printed/Typed) **VICKI BROWN**

Title **DRILLING TECH**

Signature *Vicki Brown*

Date **11/15/2012**

**ACCEPTED FOR RECORD**

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

Approved by

Title **DEC Date 9 2012**

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 *[Signature]*

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.

BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

**Raven Federal #1 - Csg & Cmt End of Well Sundry**

**10/12/2012 - 8-5/8" Intermediate, 11" Hole, J-55, #32, ST&C Csg @ 3505' (388 sx cmt to surface):**

Lead: 1360 sx (35:65) Poz C w/ 6% Bentonite + 5% Salt + 0.25% R38 (12.4wt, 2.1 yld)

*Compressive Strengths: 12 hr – 589 psi 24 hr – 947 psi*

Tail: 280 sx Class C w/0.25% R38 (14.8 wt, 1.33 yld)

*Compressive Strengths: 12 hr – 813 psi 24 hr – 1205 psi* Inter Csg Pressure Test: 2000 psi/30 min-OK

**10/19/2012 – DRL F/6280' – 6416' TD. RU Schlumberger Loggers.**

**10/20/2012 - 5-1/2" Production, 7.875" Hole, J-55, #17, LT&C Csg @ 6414' (TOC ~ 500' from surface / 168 sx cmt to surf):**

Lead: 410 sx (35:65) Poz C w/ 5% Salt + 0.25% R38 + 6% Bentonite (12.4 wt, 2.1 yld)

*Compressive Strengths: 12 hr – 540 psi 24 hr – 866 psi*

Tail: 760 sx (50:50) Poz C w/ 5% Salt + 0.25% R38 + 2% Bentonite (14.2 wt, 1.30 yld)

*Compressive Strengths: 12 hr – 1379 psi 24 hr – 2332 psi*

Prod Csg Pressure Test: 2500 psi/30 min – OK

**10/21/2012 - RR**