

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

NM OIL CONSERVATION  
ARTESIA DISTRICT  
MAR 02 2015

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.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		7. If Unit of CA/Agreement, Name and/or No.
2. Name of Operator <b>APACHE CORPORATION &lt;873&gt;</b>		8. Well Name and No. <b>RAVEN FEDERAL #21H &lt;39330&gt;</b>
3. Address <b>303 VETERANS AIRPARK LN, #3000 MIDLAND, TX 79705</b>	3b. Phone No. (include area Code) <b>432-818-1117 / 432-818-1198</b>	9. API Well No. <b>30-015-40918</b>
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>SEC 7, T17S, R31E, 330' FSL &amp; 180' FEL</b>		10. Field and Pool or Exploratory Area <b>CEDAR LAKE; GLORIETA-YESO &lt;96831&gt;</b>
		11. County or Parish, State <b>EDDY COUNTY, NM</b>

**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 recompleat 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 recompleat 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

**8/26/2014 – SPUD**

**8/26/2014 - 13.375" Surface, 17.5" Hole, #48, H-40 csg set @ 402' Cmt with:**

Lead: 470 sx Class C w/4% Gel + 2% CaCl<sub>2</sub> + 0.125#/sx CF + 0.25#/sx Defoamer (14.8 wt, 1.34 yld)

Compressive Strengths : **12 hr – 786 psi    24 hr – 1213 psi**

Surface Casing Pressure Test: 1200 psi/30 min – OK

Circ 203 sx cmt to surf

REPORT CONTINUED ON PAGE 2.

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

**VICKI BROWN**

Title **DRILLING TECH**

Signature

*Vicki Brown*

Date **11/6/2014**

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

Approved by

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.

Title

Office

Accepted for record  
3/2/15  
**ACCEPTED FOR RECORD**  
FEB 25 2015  
*D. Ham*  
**BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE**

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)

**Raven Federal #21H - Csg & Cmt End of Well Sundry**

**8/31/2014 - 9.625" Intermediate, 12.250" Hole, #32, J-55 csg set @ 3510' Cmt with:**

Lead: 1000 sx Class C w/4% Gel + 2% CaCL<sub>2</sub> + 0.125 #/sx CF + 0.25 #/sx Defoamer (12.9 wt, 1.92 yld)

*Compressive Strengths:* **12 hr** – 709 psi    **24 hr** – 1103 psi

Tail: 350 sx Class C w/ 1% Retarder (14.8 wt, 1.33 yld)

*Compressive Strengths:* **12 hr** – 1654 psi    **24 hr** – 2256 psi    Circ 184 sx cmt to surf

Intermediate Casing Pressure Test: 2000 psi/30 min – OK

**9/8/2014 - DRL F/ 8903' – T/9121' TD. TOH FOR PACKERS PLUS.**

**9/9/2014 - TIH W/ FOR 7/78" PACKERS PLUS NO GO RUN, CIRC**

**9/10/2014 - TOH FOR NO GO RUN TO 9121', CIRC**

**9/11/2014 - RUN TAPERED STRING 5.5" Production, 8.750" Hole, #20, L-80 and and 7" Liner, #29, L-80 csg w/ Packers Plus system set @ 9086'. DVT @ 4338" Cmt with:**

Lead: 600 sx 35/65 Poz/H (12.6 wt, 2.06 yld)

*Compressive Strengths:* **12 hr** – 156 psi    **24 hr** – 1081 psi

Production Casing Pressure Test: 2500 psi/30 min – OK    Circ 205 sx cmt to surf.

**9/12/2014 - RR**