Form 3M0-5 (August 2007)       UNITED STATES       FORM APPSOVED ONE IN OUTSOURD         DEPARTMENT OF THE INTERCORE, 0.9, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20				CONSEF	IVATION			
Abandoned well. Use Form 3160-3 (APD) for such proposals       7. If Unit of CA/Agreement, Name and/or N         SUBMIT IN TRIPLICATE - Other instructions on page 2.       7. If Unit of CA/Agreement, Name and/or N         Address       3. Address       8. Well Name and No.         3. Address       9. API Well No.       9. API Well No.         3. Address       9. API Well No.       9. API Well No.         3. Address       9. API Well No.       9. API Well No.         3. Address       9. API Well No.       9. API Well No.         3. Address       9. API Well No.       9. API Well No.         3. Address       9. API Well No.       9. API Well No.         3. Address       9. API Well No.       9. API Well No.         3. Address       9. API Well No.       10. Field and Poi or Exploratory Area         CEDAR LAKE; GLORIETA-YESO       42.2418-1119       11. County or Parish, State         BDV COUNTY, NM       12. CHECK THE APPROFETATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA         TYPE OF SUBMISSION       TYPE OF COUNTY, NM         I. Came Report       Parature Treat       Prediation (Star/Resume)       Well Hangrify         Subsequent Report       Came Report       Prediation (Star/Resume)       Well Hangrify         Subsequent Report       Came Repart       Prediation (Star/R	(August 2007)	UNITE DEPARTMENT BUREAU OF LA	ARTESTA OAP ARTESTA OAP NORAR 0 2 MENT	2015				
SUBMIT IN TRIPLICATE – Other instructions on page 2.         1. Type of Well       Gas Well       Other         2. Name of Operator       8. Well Name Edited         3. Address       APACHE CORPORATION <\$73>         3. Address       Supervised and the processing of the proces of the proproces of the processing of the processing of the proce	Si Do not u Abandor	UNDRY NOTICES A use this form for pro	ND REPORTS C posals to drill c 3160-3 (APD) fo	DN WELLS br to re-enter	ved <u>NM</u> 6.1 vand			
Q OI Well Gas Well Oner RAVEN FEDERAL #21H <39330>   2. Name of Operator APACHE CORPORATION <673> 9. API Well No.   3. Address 303 VETERANS AIRPARK LN, #3000 3b. Phone No. (include area Code) 10. Field and Pool or Exploratory Area   4. Location of Well (Fondage, Sec., T. R., M. or Survey Description) 11. County or Parish, State EDOY COUNTY, NM   SEC 7, T17S, R31E, 330 'FSL & 180' FSL 11. County or Parish, State EDOY COUNTY, NM   12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA TYPE OF ACTION   VIE OF SUBMISSION TYPE OF ACTION Water Sharboff   Subsequent Report Asidrize Deepen Production (Star/Resume)   Subsequent Report Caking Repair Deepen Well Integrity   Caking Repair Program Wei Construction Recurration   Subsequent Report Caking Repair Program and measured and measured and record and measured and thread and and and the starboff weil in the operation state in antiticito complete CASING & CEMENT   13. Describe Proposed of Completed Operation. Clearly State all performed or provide the Bond No. on file with SUMULA N. Requerci Subsequent reports must be filed with a 10 days for all input return makers and and starboff.   13. Describe Proposed of Completed Operation. State Calification in antibic completion of the morphole operation.   14. LINKG Calification of the operation and the operation in antibic completion of the morphole operation. The proposed work and approximate dustion thereof.   13. Describe Proposed of Completed Operation. Casing						f Unit of CA	A/Agreement, Name	and/or No
APACHE CORPORATION <		Gas Well	Other	·				0>
3. Address       303 VETERANS ARPARK LN, #300 MIDLAND, TX 79705       3b. Phone No. (include area Code) 422-818-1117 / 432-818-1198       10. Field and Pool or Exploratory Area CEDAR LAKE; GLORIETA-VESO 96831         4. Location of Well (Footage, Sec., T., R. M., or Survey Description)       11. County or Parish, State EDDY COUNTY, NM       11. County or Parish, State EDDY COUNTY, NM         SEC 7, T178, R31E, 330° FSL & 180° FEL       12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA         TYPE OF SUBMISSION       TYPE OF ACTION       Water ShacOT         Notice of latent       Anter Casing       Deepen Anter Casing       Production (Stat/Resume)       Water ShacOT         Subsequent Report       Cong Repar       Plug and Anaden       Proportily Abadon       Water ShacOT         13. Describe Propoed or Completed Operation: Clearly state all pertinent details, including estimated stating date of any proposed work and approximate duration thereof. If the proposal is to depen detactional or recomplete to ingention state field only after all requirements, including reclamation, have been completed framework and the orgent as the field only after all requirements, including reclamation, have been completed and the work will be performed or provide to broken state field only after all requirements, including reclamation, have been completed frame and the operator have been completed in a new interval, a Turn 3160-4 must be filled once testing hab see completed. The all Abandonement Molese must be filled only after all requirements, including reclamation, have been completed and the operator have been completed in a new interval, a Turn 3160-4 must be fill		CORPORATION <873>			9. A			
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)       11. County or Parish, State         SEC 7, T17S, R3JE, 330' FSL & IS0' FSL       11. County or Parish, State         I.2. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA         TYPE OF SUBMISSION       TYPE OF ACTION         Water Shar-Off       Water Shar-Off         Well Integrity       Water Shar-Off         Subsequent Report       Production (Statt/Resume)         Final Abandoument Notice       Activize         I.3. Describe Propored or Completed Operation:       Change Plans         I.4. County of a completed operation:       Change Plans         I.5. Describe Propored or Completed Operation:       Change Plans         I.6. Describe Propored or Completed Operation:       Change Plans         I.7. Describe Propored or Completed Operation:       Change Plans         I.6. Describe Propored or Completed Operation:       Change Plans         I.7. Describe Propored or Completed Operation:       Report of the unstan Bio Bland Plan Abandon         I.8. Describe Propored or Completed Operation:       Repored To the unstan Bio Bland Plan Aba	303 VETERANS	3. Address 303 VETERANS AIRPARK LN, #3000 432-818-1					1 2	
12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA         TYPE OF SUBMISSION       TYPE OF ACTION         Image: Subsequent Report       Acidize         Casing Repair       Deepen         Casing Repair       Plug and Abandon         Casing Repair       New Construction         Casing Repair       Plug and Abandon         Casing Repair       Plug and Abandon         Casing Repair       Plug and Abandon         If the proposed or Completed Operation:       Clearly state all pertiment details, including estimated starting date of any proposed work and approximate duration thereof.         13. Describe Proposed or Completed Operation:       The operation:         If the proposed is to deepen directional or recomplete invironality with BLMBLA. Required automakers and zones. Attached the Bond under which the work will be performed or provide the Bond No. on file with BLMBLA. Required automakers and zones. Attached the Bond will be performed or provide the Bond No. on file with BLMBLA. Required automakers and zones. Attached the Bond will be performed or provide the Bond No. If the operation: Statis to a multiplic completion of the invited. J. From 31604 - markers and zones. Attached the Bond will be performed on provide the Bond No. If the operation exists in a multiplic completion of the invited. J. From 31604 - markers and zones. Attached the Bond will be performed on provide the Provide operation. Statis an autiplic completion of the invited. J. From 31604 - markers and zones. Attached the Bond No. BLM-CO-1463         8/26/2014 - 13.375" Surface, 17.5" Ho	4. Location of Well (Footage, Sec., T., R., M., or Survey Description,			,		•		
Image: Notice of Intent       Acidize       Deepen       Production (Start/Resume)         Image: Subsequent Report       Casing Repair       Production       Recomplete         Image: Subsequent Report       Casing Repair       Production       Recomplete         Image: Casing Repair       Production       Recomplete         Image: Casing Repair       Production       Recomplete         Image: Convert to Injection       Production       Recomplete         Image: Convert to Injection       Productions and measured and rue vertical depth of all pertinent markers and zones.         Attached the Bond under which the work with the performed or provide the Bond No. on file with BLMPIA. Required absequent reports must be file don't the organise results in a multiple completion or recompletion of the involved operation:       Stabacted the Bond under which the work with within 30 days filed once         Bond No: BLM-CO-1463       8/26/2014 – SPUD         8/26/2014 – SPUD       8/26/2014 – SPUD         8/26/2014 – SPUD       Surface Casing Pressure Test: 1200 psi/30 min – 0K         Circ 203 sx cmt to surf       Casing Pressure Test: 1200 psi/30 min – 0K         Circ 203 sx cmt to surf       File DFOR RECORD         Marker Muth 20 of Last Mark with and days open reports the Bond and with Marker Ma			X(ES) TÓ INDICA	TE NATURE O	F NOTICE, RI	EPORT OR (	, OTHER DATA	
Image: Notice of Intent       Acidize       Acidize       Deepen       Production (Start/Resume)       Image: New Construction         Subsequent Report       Casing Repair       New Construction       Pacture Treat       Recomplete       Casing Repair         13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration theroof.         13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration theroof.         14. Integrity       Intervet operation results in a multiple completion or recompleted and the operator has a determined that be is a resoluted abusequent repairs mush be file doing a starting has been completed. File Abundonment Notes         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% CaCl2 + 0.125 H/sx CF + 0.25 H/sx Defoamer (14.8 wt, 1.34 y/d)         Compressive Strengths : 12 hor - 786 psi 24 hr - 1213 psi         Surface Casing Pressure Test: 1200 psi/30 min – 0K         Circ 203 sx cmt to surf         Acceptible for ReECORD         Vicki BROWN         Signature         Vicki BROWN         Signature         Vicki BROWN         Signature         Vicki BROWN         Signature       Mithode signal operator in the subjec recorpo	······							
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/BLA. Required subsequent reports must be filed within 10 days following completion of the involved operations. If the operation results in a multiple completion or a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonnent 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% CaCL2 + 0.125 #/sx CF + 0.25 #/sx Defoamer (14.8 wt, 1.34 y/d) 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         ACCEPTED FOR RECORD         Network Circ 203 sx cmt to surf         ACCEPTED FOR RECORD         Vicki BROWN         Title         Bullet, UP - 786 psi 24 hr - 1213 psi         Surface Casing Pressure Test: 1200 psi/30 min - OK         Net Circ 203 sx cmt to surf         Accepted for freegoing is true and correct.         Name (Printed Typed)         Surface FOR FEDERAL OR STATE OFFICE USE <td>Subsequent Report</td> <td>Alter Casing Casing Repair Change Plans Convert to Injection</td> <td>Facture Tre</td> <td>bandon</td> <td>Reclamation Recomplete Temporarily A Water Disposa</td> <td>bandon 1</td> <td>Other DRILLING ( CASING &amp; ( REPORT</td> <td>DPS: CEMENT</td>	Subsequent Report	Alter Casing Casing Repair Change Plans Convert to Injection	Facture Tre	bandon	Reclamation Recomplete Temporarily A Water Disposa	bandon 1	Other DRILLING ( CASING & ( REPORT	DPS: CEMENT
Compressive Strengths : 12 hr - 786 psi       24 hr - 1213 psi         Surface Casing Pressure Test:       1200 psi/30 min - 0K       Circ 203 sx cmt to surf         Surface Casing Pressure Test:       1200 psi/30 min - 0K         Circ 203 sx cmt to surf         Accepted for record         Name (Printed/Typed)         Vicki BROWN         Nicki BROWN         Signature         Wiki Matthe foregoing is true and correct.         Name (Printed/Typed)         Vicki BROWN         Title         Bure of the foregoing is true and correct.         Name (Printed/Typed)         Vicki BROWN         Title         Date         Title         Conditions of approval, if any, are attached. Approval of this notice does not warrant or correct in the subject lease which would entitle the applicant to conduct operations thereon.         Title         Office         Office         Title         Office         Office	If the proposal is to deepen direct Attached the Bond under which t following completion of the invo testing has been completed. Fina determined that the site is ready f Bond No: BLM-CO-1463 <u>8/26/2014 - 13.375" Sur</u>	tional or recomplete horizont the work will be performed o lved operations. If the opera al Abandonment Notices mus for final inspection. <b>8/26/2014 – S</b> face, <b>17.5" Hole, #48</b>	ally, give subsurface lo r provide the Bond No. tion results in a multipl t be filed only after all SPUD 3, H-40 csg set @	ocations and measu on file with BLM le completion or re requirements, incl 4022' Cmt v	red and true ver /BIA. Required completion in a uding reclamation vith:	tical depths of subsequent re new interval, a on, have been c	all pertinent markers and ports must be filed within a Form 3160-4 must be fil completed and the operato	zones. 30 days ed once
REPORT CONTINUED ON PAGE 2.         Interpretend of the provided of the provi	Compress	sive Strengths: <b>12 hr</b> -	- 786 psi <b>24 hr</b> –	-		cmt to surf		
Name (Printed/Typed)       Title       DRILLING TECH       ACCEPTED FOR RECORD         Signature       Vicki BROWN       Date       11/6/2014       EED 2.5 2015         BUREAU OF LAND MANAGEMENT         Approved by         Title       Date       11/6/2014         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         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 State	REPORT CONTINUED ON PAG	GE 2.				SN)	NEADED /15	-
THIS SPACE FOR FEDERAL OR STATE OFFICE USE         Approved by       BUREAU OF LAND MANAGEMENT         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         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 State	Name (Printed/Typed)			Title DRILLING TECH		ACCEP	TED FOR REC	ORD
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any mag, nyangag yi naayangan manangangan na nganggangangan ang naany naangi wuluu ny nulyanganan	certify that the applicant holds legal or	equitable title to those rights			, · · ·			

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## 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% CaCL2 + 0.125 #/sx CF + 0.25 #/sx Defoamer (12.9 wt, 1.92 yld) Compressive Strengths: 12 hr - 709 psi 24 hr - 1103 psi

<u>Tail:</u> 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

## <u>9/8/2014 - DRL F/ 8903' – T/9121' TD. TOH FOR PACKERS PLUS.</u> <u>9/9/2014 - TIH W/ FOR 7/78" PACKERS PLUS NO GO RUN, CIRC</u> <u>9/10/2014 - TOH FOR NO GO RUN TO 9121', CIRC</u>

## 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

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