

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

HOBBS OCD

MAY 28 2013  
OCC Hobbs

FORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2014

**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.**

RECEIVED

**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. NMNM-116411
2. Name of Operator Apache Corporation (873)		8. Well Name and No. West Blinebry Drinkard Unit (WBDU) #031 (37346)
3a. Address 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705		9. API Well No. 30-025-38196
3b. Phone No. (include area code) 432/818-1062		10. Field and Pool or Exploratory Area Eunice; B-T-D, North (22900)
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2528' FNL & 1250' FWL UL E Sec 9 T21S R37E		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 checked="" 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"/> 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 <u>ADD PERFS</u>
	<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 recompleat 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 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.)

Apache would like to add perforations to, and acid stimulate the Blinebry and Drinkard formations, per the attached.

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Reesa Holland Fisher		Title Sr. Staff Reg Tech
Signature <i>Reesa Holland Fisher</i>		Date 05/09/2013
<b>THIS SPACE FOR FEDERAL OR STATE OFFICE USE</b>		
Approved by		Title <i>Jennifer T. Mason</i>
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 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)

MISS/OCD 7/16/2013

JUL 16 2013

## **WBDU 31 Proposed Procedure**

### **Add perforations to, and acid stimulate the Blinebry and Drinkard formations**

**Day 1:** MIRU. POOH w/ rods and pump. Install BOP. Tag for fill and POOH w/ 2-7/8" tbg. RIH w/ 4-3/4" bit on 2-7/8" ws

**Day 2:** Cont. RIH. Clean well out to +/- 6800' out as necessary. POOH. RIH w/scraper to +/-6750'

**Day 3:** Cont. RIH w/scraper to +/-6750', POOH.

MIRU WL. Perforation depths based on a datum elevation of 3515' (KB elevation). Openhole logs with proposed perforations will be provided for correlation

Perforate the Drinkard from 6500-02', 27-29', 48-49', 52-53', 68-69', 6604-07', 08-10', 12-16', 34-37', 54-56', 73-75', 6698-6700' w/ 4 SPF, 90 deg phasing (25 ft, 100 shots)

Perforate the Blinebry from 5783-85', 5829-31', 86-88', 5972-73', 6052-53' w/ 4 SPF, 90 deg phasing (8 ft, 32 shots)

PU RIH w/ RBP and treating pkr

**Day 4:** Cont. RIH w/ RBP and treating pkr

Set RBP @ +/-6750'. Set pkr @ +/-6450'. Acidize the Drinkard w/6,900 gals 15% HCl-NE-FE BXDX acid and rock salt in three equal stages @ +/-10 BPM. Release pkr. Wash out salt. Release RBP

Re-set RBP @ +/-6240', set pkr @ +/-5750'. Acidize the Blinebry w/3,000 gals 15% HCl-NE-FE BXDX acid and rock salt in three equal stages @ +/-10 BPM. Release pkr. Wash out salt. Release RBP

POOH w/ 2-7/8" ws

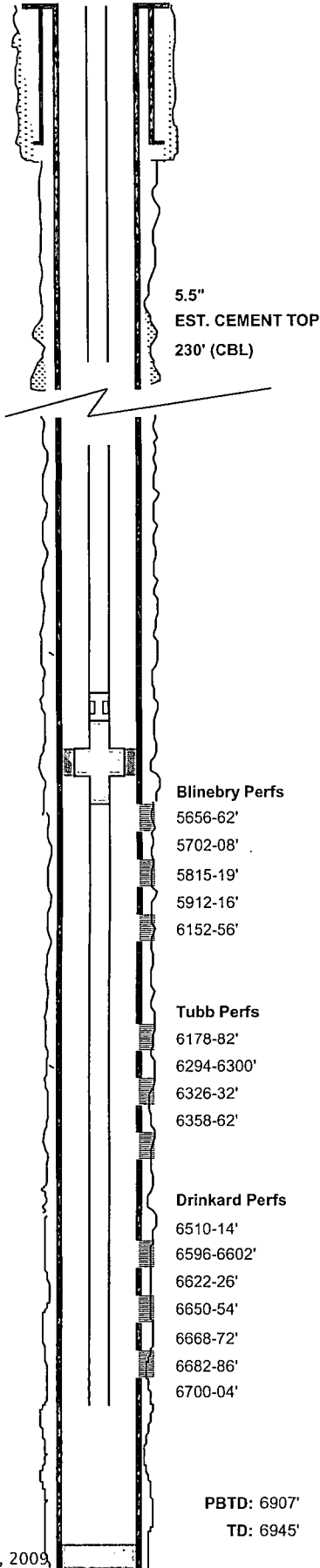
**Day 5:** Cont. POOH w/ 2-7/8" ws. RIH w/ SN, 2-7/8" production tbg. ND BOP, set TAC, NU WH

**Day 6:** RIH w/ 1-1/2" pump and rods. Return well to production. Place well in test

**Apache Corporation**  
**WBDU #31 (Hawk A #33)**  
**WELL DIAGRAM (CURRENT CONFIGURATION)**



SURF. CSG.



WELL NAME: WBDU #31 (Hawk A #33)			API: 30-025-38196		
LOCATION: 2528'N/1250'W SE-SE=SW-NW, Sec. 9, T-21S, R-37E			COUNTY: Lea Co., NM		
SPUD-TD DATE: 03/27/2007 - 04/04/2007			COMP. DATE: 5/3/2007		
PREPARED BY: Michael Hunter			DATE: 4/9/2013		
TD: 6945'	KB Elev. 3515'		KB Dist. H		
PBDT: 6907'	Ground Elev. 3504'		KB to Ground 11'		
CASING/TUBING	SIZE (IN)	WEIGHT (LB/FT)	GRADE	DEPTHS (FT)	
Surface Casing	8-5/8"	24.00	J-55	0.00 1,315.00	
	(Cemented w/575sx,				
	Circ. to surf.)				
Prod. Casing	5-1/2"	17.00	J-55/L-80	0.00 6,945.00	
	(Cemented w/1150sx,				
	TOC @ 230' CBL)				
Open Hole					
Tubing	2-7/8"	6.50	J-55	0.00 6,745.00	
PRODUCTION TBG STRING					
ITEM	DESCRIPTION			LENGTH (FT)	Depth (FT)
1	2-7/8" X 5-1/2" Tubing Anchor				5584.00
2	208 JTS 2-7/8" 6.5# J-55 TBG				6754.00
3	SN				6754.00
4					
5					
6					
7					
8					
9					
10					
PRODUCTION ROD STRING					
ITEM	DESCRIPTION			LENGTH (FT)	Btm (FT)
1	71 JTS 1" KD RODS			1,775.00	
2	79 JTS 7/8" KD RODS			1,975.00	
3	118 JTS 3/4" KD RODS			2,950.00	
4	BHP: 2" X 1 1/16" X 24' RHBC W/RHR (07/24/2012)			24.00	
5					
6					
7					
8					
9					
10					
SURFACE EQUIPMENT					
PUMPING UNIT SIZE:		C640-365-168	MOTOR HP: 40 HP		
PUMPING UNIT MAKE:		Ampscot	MOTOR MAKE:		
PERFORATIONS					
Form.	Intervals				Density
Blinebry	5656-62', 5702-08', 5815-19', 42-46', 5912-16' (Active)				2 SPF
Tubb	6152-56', 78-82', 6294-6300', 6326-32', 58-62' (Active)				2 SPF
Drinkard	6510-14', 6596-6602', 6622-26', 50-54', 68-72', 82-86', 6700-04' (Active)				2 SPF

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PBDT: 6907'  
TD: 6945'

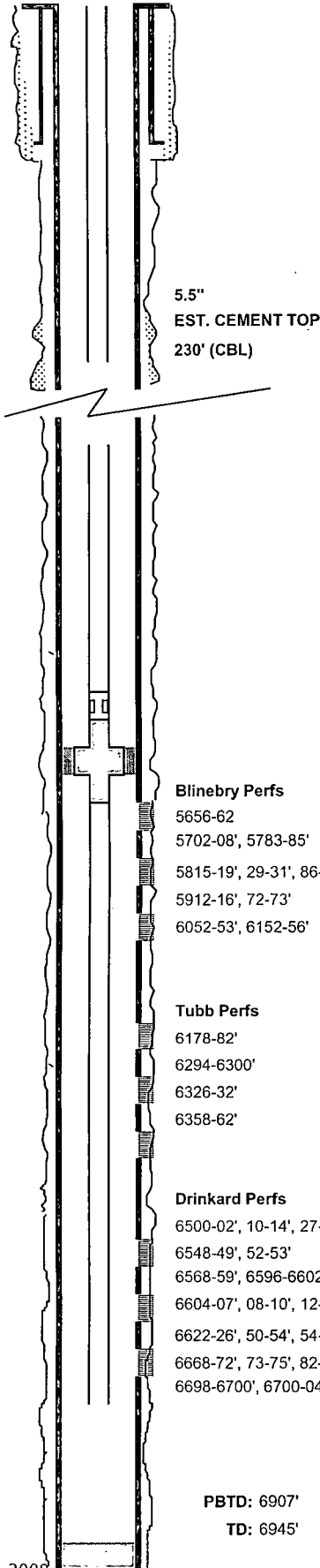
Jul-17, 2009

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**Apache Corporation**  
**WBDU #31 (Hawk A #33)**  
**WELL DIAGRAM (PROPOSED CONFIGURATION)**



SURF. CSG.



WELL NAME:		WBDU #31 (Hawk A #33)		API:		30-025-38196	
LOCATION:		2528'N/1250'W SE-SE=SW-NW, Sec. 9, T-21S, R-37E		COUNTY:		Lea Co., NM	
SPUD-TD DATE:		03/27/2007 - 04/04/2007		COMP. DATE:		5/3/2007	
PREPARED BY:		Michael Hunter		DATE:		4/9/2013	
TD: 6945'		KB Elev. 3515'		KB Dist. H			
PBTD: 6907'		Ground Elev. 3504'		KB to Ground 11'			
CASING/TUBING	SIZE (IN)	WEIGHT (LB/FT)	GRADE	DEPTHS (FT)			
Surface Casing	8-5/8"	24.00	J-55	0.00 1,315.00			
	(Cemented w/575sx,						
	Circ. to surf.)						
Prod. Casing	5-1/2"	17.00	J-55/L-80	0.00 6,945.00			
	(Cemented w/1150sx,						
	TOC @ 230' CBL)						
Open Hole							
Tubing	2-7/8"	6.50	J-55	0.00 6,745.00			
PRODUCTION TBG STRING							
ITEM	DESCRIPTION			LENGTH (FT)	Depth (FT)		
1	2-7/8" X 5-1/2" Tubing Anchor				5584.00		
2	208 JTS 2-7/8" 6.5# J-55 TBG				6754.00		
3	SN				6754.00		
4							
5							
6							
7							
8							
9							
10							
PRODUCTION ROD STRING							
ITEM	DESCRIPTION			LENGTH (FT)	Btm (FT)		
1	71 JTS 1" KD RODS			1,775.00			
2	79 JTS 7/8" KD RODS			1,975.00			
3	112 JTS 3/4" KD RODS			2,800.00			
4	6 JTS 1-1/2 K BARS w/ 3/4" PIN N/N			150.00			
5	BHP: 2" X 1 1/16" X 24' RHCB W/RHR			24.00			
6							
7							
8							
9							
10							
SURFACE EQUIPMENT							
PUMPING UNIT SIZE:		C640-365-168		MOTOR HP:		40 HP	
PUMPING UNIT MAKE:		Ampscot		MOTOR MAKE:			
PERFORATIONS							
Form.	Intervals					Density	
Blinebry	5656-62', 5702-08', 5815-19', 42-46', 5912-16' (Active)					2 SPF	
	5783-85', 5829-31, 86-88', 5972-73', 6052-53' (Proposed)					4 SPF	
Tubb	6152-56', 78-82', 6294-6300', 6326-32', 58-62' (Active)					2 SPF	
Drinkard	6510-14', 6596-6602', 6622-26', 50-54', 68-72', 82-86', 6700-04' (Active)					2 SPF	
	6500-02', 27-29', 48-49', 52-53', 68-69' (Proposed)					4 SPF	
	6604-07', 08-10', 12-16', 34-37', 54-56', 73-75', 6698-6700' (Proposed)					4 SPF	

Jul-17, 2009

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**West Blinebry Drinkard Unit 31**  
**30-025-38196**  
**Apache Corporation**  
**May 22, 2013**  
**Conditions of Approval**

**Notify BLM at 575-361-2822 a minimum of 24 hours prior to commencing work.**

**Work to be completed by August 22, 2013.**

- 1. Must conduct a casing integrity test before any work can be done. Submit results to BLM. The CIT is to be performed on the production casing per Onshore Oil and Gas Order 2.III.B.1.h. Submit results to the BLM.**
- 2. If CIT does not fail work is approved as written.**
3. Before casing or a liner is added or replaced, prior BLM approval of the design is required. Use notice of intent Form 3160-5.
4. Surface disturbance beyond the originally approved pad must have prior approval.
5. Closed loop system required.
6. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
7. Operator to have H2S monitoring equipment on location.
8. A minimum of a 2000 (2M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (2M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.
- 9. Subsequent sundry required detailing work done. Operator to include well bore schematic of current well condition when work is complete.**

**JAM 052213**