

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.

HOBBS OCD
AUG 02 2017
RECEIVED

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other: INJECTION		5. Lease Serial No. NMNM90161
2. Name of Operator APACHE CORPORATION		6. If Indian, Allottee or Tribe Name
3a. Address 303 VETERANS AIRPARK LANE SUITE 3000 MIDLAND, TX 79705		7. If Unit or CA/Agreement, Name and/or No. NMNM120042X
3b. Phone No. (include area code) Ph: 432-818-1062		8. Well Name and No. WEST BLINEBRY DRINKARD UNIT 188 ✓
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 9 T21S R37E SESW 640FSL 2170FWL ✓		9. API Well No. 30-025-42569
		10. Field and Pool or Exploratory Area EUNICE; B-T-D, NORTH
		11. County or Parish, State LEA COUNTY 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"/> 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 Production Start-up
	<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 intends to complete this well, per the attached.
(RR 3/27/2017) (WFX-960)

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

**Electronic Submission #372499 verified by the BLM Well Information System
For APACHE CORPORATION, sent to the Hobbs
Committed to AFMSS for processing by DEBORAH MCKINNEY on 04/11/2017 ()**

Name (Printed/Typed) REESA FISHER	Title SR STAFF REGULATORY ANALYST
Signature (Electronic Submission)	Date 04/10/2017

ACCEPTED FOR RECORD

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title TPET <i>PK [Signature]</i>	Date 07/19/17
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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)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Accepted for Record Only
MAB/OW 8/8/2017

WBDU #188W: Drinkard Completion



Procedure Date: March 27, 2017

AFE: 11-16-1732-CP

AFE: 11-16-1732-EQ

API: 30-025-42569

640' FSL & 2170' FWL

Section 9, Township 21S & Range 37E

Lea County, New Mexico

TD: 6,868' MD

GL Elev: 3,500'

KB Elev: 3,514'

Production Casing:

Size: 5-1/2"	Weight: 17 lb/ft	Grade: L-80 LTC	ID: 4.892"	Capacity: 0.0232 bbl/ft
Depth: 6,868'	Float shoe: 6,866.7'	Float Collar: 6,819.5'	Marker Jt.: 5,548.3'	
Cement:	Lead: 1,000 SX (12.6 ppg, 1.95 Yield)			
	Tail: 350 SX (14.2 ppg, 1.31 Yield)			
	TOC: Circ. 68 bbls (195 SX)			

Max pressure: 7,500 psi (~ 70% Burst Pressure of 2-7/8" L-80 Workstring)

Recommended Procedure:

Day 1: MIRU.NUHBOP. RIH w/ 2-7/8" L-80 work string and bit. Tag top of float collar @ 6,819'. Circulate wellbore bottoms up with fresh water. POOH w/ work string.

Day 2: MIRU WL. RIH w/ cased hole RCBL/CCL logging equipment. Log from PBTD to surface. POOH. RIH w/ 3-1/8" guns and correlate depths to Halliburton CNL/GR log run 3/26/2017. Perforate Drinkard as per the attached sheet w/ 3-1/8" slick guns loaded w/ Owen SDP charges @ 2 SPF, 90 deg phasing (total 82', 164 shots). POOH.

Day 3: RIH w/ 2-7/8" L-80 work string with treating packer while hydro testing tubing to 7500 psi. Set packer at +/- 6,490'.

Acidize the Drinkard formation down 2-7/8" work string w/ 10,000 gal of 15% HCl acid w/scale inhibitor and 267 (1.3 SG) ball sealers (~63% excess). Pump per attached pump schedule.

- Max Rate: 10 BPM
- Max Pressure: 7500 psi (Kickouts set at 6500 psi)

Day 4: RIH w/ AS-1X packer on work string and set packer at +/- 50' above top perf. POOH and lay down work sting.

RIH w/ 2-3/8" 1505 J-55 IPC coated tubing. Circulate packer fluid. Latch onto packer. Test casing to 500 psi. NDBOP. NUWH. RDMO.

Day 5: Perform MIT witnessed by NMOCD. Place well on injection.

Perforation Intervals:

WBDU 188W Perforations					
Guns: 3-1/8" TAG w/SDP Charges					
Zone	Top	Bottom	Feet	SPF	Shots
Drinkard	6527	6556	30	2	60
Drinkard	6561	6570	10	2	20
Drinkard	6575	6581	7	2	14
Drinkard	6590	6617	28	2	56
Drinkard	6620	6626	7	2	14
Total			82		164

Acid Ball-Out Pump Schedule:

Stage	Description	Fluid	Volume (BBLs)	Cum Volume (BBLs)	Balls	Cum Balls
1	Breakdown	Fresh Water	10	10		0
2	Acid	15% HCl	20	30		0
3	Drop 15 Balls	15% HCl	5	35	15	15
4	Acid	15% HCl	5	40		15
5	Drop 12 Balls	15% HCl	5	45	12	27
6	Acid	15% HCl	5	50		27
7	Drop 12 Balls	15% HCl	5	55	12	39
8	Acid	15% HCl	5	60		39
9	Drop 12 Balls	15% HCl	5	65	12	51
10	Acid	15% HCl	5	70		51
11	Drop 12 Balls	15% HCl	5	75	12	63
12	Acid	15% HCl	5	80		63
13	Drop 15 Balls	15% HCl	5	85	15	78
14	Acid	15% HCl	5	90		78
15	Drop 12 Balls	15% HCl	5	95	12	90
16	Acid	15% HCl	5	100		90
17	Drop 12 Balls	15% HCl	5	105	12	102
18	Acid	15% HCl	5	110		102
19	Drop 12 Balls	15% HCl	5	115	12	114
20	Acid	15% HCl	5	120		114
21	Drop 12 Balls	15% HCl	5	125	12	126
22	Acid	15% HCl	5	130		126
23	Drop 15 Balls	15% HCl	5	135	15	141
24	Acid	15% HCl	5	140		141
25	Drop 12 Balls	15% HCl	5	145	12	153
26	Acid	15% HCl	5	150		153
27	Drop 12 Balls	15% HCl	5	155	12	165
28	Acid	15% HCl	5	160		165
29	Drop 12 Balls	15% HCl	5	165	12	177
30	Acid	15% HCl	5	170		177
31	Drop 12 Balls	15% HCl	5	175	12	189
32	Acid	15% HCl	5	180		189
33	Drop 15 Balls	15% HCl	5	185	15	204
34	Acid	15% HCl	5	190		204
35	Drop 12 Balls	15% HCl	5	195	12	216
36	Acid	15% HCl	5	200		216
37	Drop 12 Balls	15% HCl	5	205	12	228
38	Acid	15% HCl	5	210		228
39	Drop 12 Balls	15% HCl	5	215	12	240
40	Acid	15% HCl	5	220		240
41	Drop 12 Balls	15% HCl	5	225	12	252
42	Acid	15% HCl	5	230		252
43	Drop 15 Balls	15% HCl	5	235	15	267
44	Acid	15% HCl	15	250		267
45	Flush	Fresh Water	80	330		267
Total				330		267