

OCD-HOBBS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.*5. Lease Serial No.
NMLC032096A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
NMNM120042X8. Well Name and No.
WEST BLINEBRY DRINKARD UNIT 221 ✓9. API Well No.
30-025-4249610. Field and Pool or Exploratory Area
EUNICE; BTD, NORTH11. County or Parish, State
LEA COUNTY COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

SEP 11 2017

RECEIVED

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other: INJECTION2. Name of Operator
APACHE CORPORATION / Contact: REESA FISHER
E-Mail: Reesa.Fisher@apachecorp.com3a. Address
303 VETERANS AIRPARK LANE SUITE 3000
MIDLAND, TX 797053b. Phone No. (include area code)
Ph: 432-818-10624. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 17 T21S R37E NESE 2300FSL 500FEL ✓

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 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"/> 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
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Production Start-up
	<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.

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

Electronic Submission #377628 verified by the BLM Well Information System
For APACHE CORPORATION, sent to the Hobbs
Committed to AFMSS for processing by DEBORAH MCKINNEY on 06/01/2017 ()

Name (Printed/Typed) REESA FISHER

Title SR STAFF REGULATORY ANALYST

Signature (Electronic Submission)

Date 06/01/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

TPET

08/25/17 Date

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 **



WBDU #221W-D: Drinkard Completion

Procedure Date: May 31, 2017

API: 30-025-42496

2300' FSL & 500' FEL

Section 17, Township 21S & Range 37E

Lea County, New Mexico

TD: 6,904' MD (6886.36' TVD)

GL Elev: 3,464'

KB Elev: 3,478'

Production Casing:

Size: 5-1/2" Weight: 17 lb/ft Grade: L-80 8 RD EUE ID: 4.892" Capacity: 0.0232 bbl/ft

Depth: 6,904'

Float shoe: 6,931.7'

Float Collar: 6884.6'

Marker Jt.: 5,576'

DV Tool: 4,466.8'

Cement:	1 st Stage:	Lead: 310 SX (12.6 ppg, 2.06 Yield)
		Tail: 360 SX (14.2 ppg, 1.31 Yield)
	2 nd Stage (DV Tool):	Lead: 1300 SX (12.6 ppg, 2.06 Yield)
		Tail: 125 SX (14.2 ppg, 1.32 Yield)

TOC: CIRC 171 SX (36 bbls)

Recommended Procedure

Completion AFE: (11-16-1734-CP)

Day 1: MIRU.NUHBOP. RIH w/ 2-7/8" L-80 work string and bit. Tag DV tool at +/- 4466' and drill out cement. Continue to bottom and tag top of float collar @ 6,884'. 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/ 3-3/8" guns and correlate depths to Halliburton Spectral Gamma/Dual Spaced Neutron/Spectral Density log run 5/4/2017.

Perforate Drinkard as per the attached sheet w/ 3-3/8" slick guns loaded w/ Owen SDP charges @ 2 SPF, 90 deg phasing (70', 140 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 +/- 50' above top perf.

MIRU Cudd. Acidize the Drinkard formation down 2-7/8" work string w/ 10,000 gal of 15% HCl acid and 204 (1.3 SG) ball sealers (~45% excess). Pump per attached pump schedule.

- Max Rate: 10 BPM
- Max Pressure: 7000 psi (Kickouts set at 6500 psi)
- If treating pressures are averaging over 4500 psi for an extended period of time, slow rate down to 6 BPM

Unset and lower packer to knock balls off perfs. POOH. Completion AFE done. Begin Equipping AFE report.

Equipping AFE: (11-16-1734-EQ)

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

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 221W-D Perforations					
Guns: 3-1/8" TAG w/SDP Charges					
Zone	Top	Bottom	Feet	SPF	Shots
Drinkard	6578	6584	7	2	14
Drinkard	6587	6590	4	2	8
Drinkard	6592	6604	13	2	26
Drinkard	6611	6613	3	2	6
Drinkard	6622	6640	19	2	38
Drinkard	6643	6647	5	2	10
Drinkard	6649	6651	3	2	6
Drinkard	6662	6664	3	2	6
Drinkard	6668	6680	13	2	26
Total			70		140

Acid Ball-Out Pump Schedule:

Stage	Description	Fluid	Volume (BBLs)	Cum Volume (BBLs)	Balls	Cum Balls
1	Load Well	Fresh Water	50	50		0
2	Breakdown	Fresh Water	10	60		0
3	Acid	15% HCl	15	75		0
4	Drop 15 Balls	15% HCl	6	81	12	12
5	Acid	15% HCl	6	87		12
6	Drop 15 Balls	15% HCl	6	93	12	24
7	Acid	15% HCl	6	99		24
8	Drop 15 Balls	15% HCl	6	105	12	36
9	Acid	15% HCl	6	111		36
10	Drop 15 Balls	15% HCl	6	117	12	48
11	Acid	15% HCl	6	123		48
12	Drop 15 Balls	15% HCl	6	129	12	60
13	Acid	15% HCl	6	135		60
14	Drop 15 Balls	15% HCl	6	141	12	72
15	Acid	15% HCl	6	147		72
16	Drop 15 Balls	15% HCl	6	153	12	84
17	Acid	15% HCl	6	159		84
18	Drop 15 Balls	15% HCl	6	165	12	96
19	Acid	15% HCl	6	171		96
20	Drop 15 Balls	15% HCl	6	177	12	108
21	Acid	15% HCl	6	183		108
22	Drop 15 Balls	15% HCl	6	189	12	120
23	Acid	15% HCl	6	195		120
24	Drop 15 Balls	15% HCl	6	201	12	132
25	Acid	15% HCl	6	207		132
26	Drop 15 Balls	15% HCl	6	213	12	144
27	Acid	15% HCl	6	219		144
28	Drop 15 Balls	15% HCl	6	225	12	156
29	Acid	15% HCl	6	231		156
30	Drop 15 Balls	15% HCl	6	237	12	168
31	Acid	15% HCl	6	243		168
32	Drop 15 Balls	15% HCl	6	249	12	180
33	Acid	15% HCl	6	255		180
34	Drop 15 Balls	15% HCl	6	261	12	192
35	Acid	15% HCl	6	267		192
36	Drop 15 Balls	15% HCl	6	273	12	204
37	Acid	15% HCl	25	298		204
38	Flush	Fresh Water	80	378		204
Total				378		204

Downhole Well Profile w Cement

Well Name: WBDU 221W

Reference Datum: KB

API# Surface Loc 3002542496	Surface Legal Location 2300' FSL & 900' FEL SEC 17 T21S R37E	Field Name Eunice; bli-tu-gr, N	State/Province New Mexico	Well Purpose APPR
Spud Date 4/24/2017 22:00	Original KB Elevation (ft) 3,478.0	Ground Elevation (ft) 3,464.0	KB-Ground Distance (ft) 14.0	
RSTD (All) (KB)		Total Depth All (TV) (KB)		

APPR - WEST BLINEBRY DRINKARD UNIT 221W - Original Hole: 5/31/2017

Vertical schematic (actual)

Well Description: Vertical schematic (actual)

Primary Cement 0.00-64.00 ftKB

Primary Cement 64.00-1,374.00 ftKB

Production 1,374.00-6,933.00 ftKB

Production 6,933.00-8,904.00 ftKB

Csg Des	OD (in)	WT (lb/ft)	Grade	Set Depth (ftKB)
Conductor	20	20.00	J-55	64.00
Surface	8 5/8	24.00	J-55	1,374.00
Prod 1	5 1/2	17.00	L-80	6,933.00

Cement

String	Description	Top Depth (ftKB)	Bottom Depth (ftKB)	Top Meas Meth Returns at Surface	Start Date
Conductor	Primary Cement	0.00	64.00	Surface	4/22/2017
Surface	Primary Cement	14.00	1,374.00	Surface	4/27/2017
Prod 1	Production	4,437.00	6,904.00	Surface	5/5/2017
Prod 1	Production	14.00	4,437.00	Surface	5/5/2017

Perforations

Date	Type	Top (ftKB)	Bot (ftKB)	Shot Size (shots/ft)	Shots Total	Open or Closed

Tubing Strings

Tubing Description	Run Date	String Length (ft)	Set Depth (ftKB)

Rod Strings

Rod Description	Run Date	String Length (ft)	Set Depth (ftKB)

Other In Hole

Description	OD (in)	Top (ftKB)	Run Date

Plug Back Total Depths

Date	Type	Depth (ftKB)	Depth (ftKB)

Comments

Comment