

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-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.

5. Lease Serial No.
LC-032096B

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other Injection

2. Name of Operator
Apache Corporation (873)

3a. Address
303 Veterans Airpark Lane, Suite 1000
Midland, TX 79705

3b. Phone No. (include area code)
432/818-1062

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' FSL & 330' FEL UL P Sec 11 T21S R37E

7. If Unit of CA/Agreement, Name and/or No.
EBDU

8. Well Name and No.
East Blinberry Drinkard Unit (EBDU) #022 <35023>

9. API Well No.
30-025-06528

10. Field and Pool or Exploratory Area
Eunice; B-T-D, North (22900)

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 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 type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input checked="" 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.)

It has been brought to our attention that BLM NOI's were not done at the time Injection Permits were acquired from the OCD 5/14/2013. Apache intended to convert this well to injection, per the attached procedure.

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

Reesa Fisher

Title Sr. Staff Reg Analyst

Signature

Reesa Fisher

Date 03/19/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

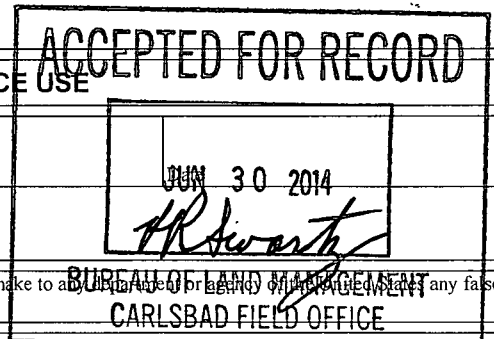
Title

Office

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 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)



MSB/OCD 8/5/2014

AUG 06 2014

EBDU #22
660' FSL & 330' FEL, Unit P, Sec 11, T-21-S, R-37-E
Lea County, New Mexico

Convert to Injection

Prod Csg: 5-1/2", 14[#] & 15.5[#], J-55 csg @ 5,900'. Cmt'd w/3,200 sx cmt. TOC @ 2,500' (est). Yes the volume was 3,200 sx.
Yield (J-55, assumed) @ 90% = 4,329 psig. Cap = 0.9997 gal/ft = 0.0238 bbl/ft.

Perfs: **BL: 5,704' – 5,883' w/4 JSPF (532 holes, 7/56).**

1. MI & set clean 500 bbl frac tank. Set 1 flowback tank. MIRU PU. Blow down well. POH & LD rods & pmp. ND WH. NU BOP. POH & LD prod tbg.
2. MI 6,000', 2-7/8", 6.5[#] tbg. TIH w/bit, csg scraper & tbg to PBTD @ 5,897'. POH w/tbg, csg scraper & bit.
3. TIH w/RBP, pkr & tbg to ~5,690' & set RBP. Load hole & press tst csg to 500 psig for 30". **Results will determine the next course of action. The remainder of this procedure assumes the casing pressure tested.**
4. POH w/tbg & pkr. MIRU WL trk. Load the hole w/water. Run GR/CCL/Radial CBL fr/RBP - surf. Correlate w/Lane Radioactive log dated 7/5/1956.
5. No 7 TIH w/tbg & pull RBP. Perf additional Blinebry fr/5,670' – 5,684' w/2 JSPF (30 holes, 60° phasing). RDMO WL trk. TIH w/pkr & WS. Set pkr @ ~5,610'. EIR w/wtr.
6. Acidize BL perfs 5,670' – 5,883' w/10,000 gals of 15% HCl acid & 15,000[#] GRS @ 6-8 BPM. Max TP 5,000 psig. Flush w/44 bbls 2% KCl wtr. SWI 2 hrs. Circ out salt. POH w/WS & pkr.
7. TIH w/inj pkr w/profile nipple & on/off tool. Set pkr @ 5,600'. Rel off pkr & circ hole clean. Press tst pkr & csg to 500 psig for 30".
8. POH w/WS & LD. TIH w/inj string & circ hole w/pkr fluid. Latch onto pkr.
9. ND BOP. NU inj WH. Hook up to injection system & start injecting.

Apache Corporation

Co. Rep	Kelsey Grisham
Well Name	EBDU
Field	Eunice Area (EBDU)
County	Lea
State	New Mexico
Date	2/28/2013
GL	3,429'
KB corr	10'

Casing	O.D.	Grade	Wt	Depth	TOC
Surf	8-5/8"	J-55	24#	1,400'	Surf
Inter					
Prod	5-1/2"	J-55	14# & 15.5#	5,899'	2,500'
Liner					

EBDU #22

Loc: 660' FSL & 330' FEL, Unit P, Sec 11, T-21-S, R-37-E, Lea Cty, NM

Field/Fmt: North Eunice / Blinebry

KB: 3,439'

GL: 3,429'

KB corr: 10'

API#: 30-025-06528

Fed/Lease: LC-032096-B

Spud Date: 06/15/56

Comp Date: 07/09/56

IPP: BL: F. 62 BO, 0 BW, 0 MCF, 6 hrs.

Perfs: BL: 5,704' - 5,883' w/4 JSPF (532 holes).

HISTORY:

06/15/56: Spudded 12-1/4" hole as the Lockhart B-11 #13 by Continental Oil Company.

06/15/56: Set 8-5/8", 24", J-55 csg @ 1,400'. Cmt'd w/750 sx cmt. Circ cmt to surf.

07/01/56: TD @ 5,900'. Set 5-1/2", 14" & 15.5", J-55 csg @ 5,899'. Cmt'd w/3,200 sx cmt.

07/02/56: DO cmt fr/75' - 815'

07/03/56: DO cmt fr/815' - 3,311'

07/04/56: DO cmt fr/3,311' - 5,893'

07/06/56: TOC @ 2,500' (est). Perf Blinebry fr/5,829' - 5,883' w/4 JSPF (216 holes). Acidized w/1,000 gals 15% LSTNE acid. Frac w/6,000 gals & 6,000# sd.

07/07/56: Perf Blinebry fr/5,756' - 5,798' w/4 JSPF (168 holes). Acidize w/1,000 gals 15% LSTNE. Frac w/6,000 gals & 6,000# sd. Perf Blinebry 5,704' - 5,741' w/4 JSPF (148 holes). Acidize w/2,000 gals 15% LSTNE acid.

07/15/56: Blinebry fr. F. 62 BO, 0 BW, 0 MCF, 6 hrs.

05/06/76: Change fr/flowing to ppg. TIH w/prod eq. EOT @ 6,894' w/SN @ 6,872'. Set ppg ut.

05/09/76: Pumped 32 BO, 5 BW, 27 MCFD, 24 hrs.

10/05/78: Pmp stuck above SN fr/sd & scale. HO tbg, swb'd & CO well. TIH w/new pmp.

04/01/99: Apache Corporation took over operations fr/Conoco, Inc.

09/01/05: Name chg'd fr/Lockhart B-11 #13 to East Blinebry Drinkard Unit #22.

12-1/4" hole

TOC @ surf

Depth	Description
	Drilled as the Lockhart B-11 #13

TOC @ 2,500' (est)

7-7/8" hole

BL: 5,704' - 5,883' w/4 JSPF (532 holes).

PBTD @ 5,897'

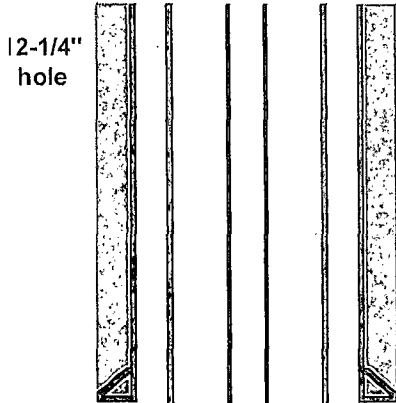
TD @ 5,900'

PROPOSED STATUS

Apache Corporation

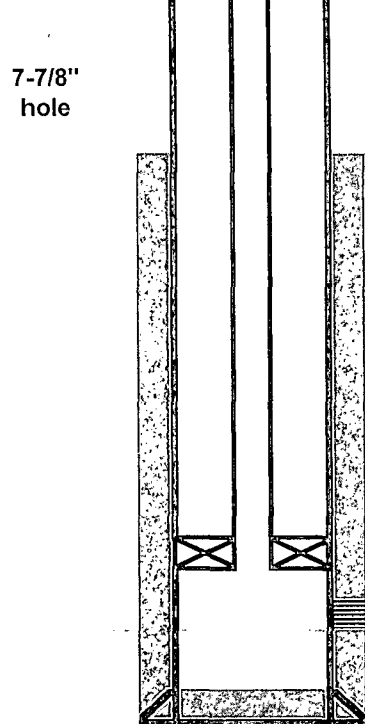
Co. Rep Kelsey Grisham
 Well Name EBDU Well No. 22
 Field Eunice Area (EBDU)
 County Lea
 State New Mexico
 Date 2/28/2013
 GL 3,429'
 KB corr 10'

Casing	O.D.	Grade	Wt	Depth	TOC
Surf	8-5/8"	J-55	24#	1,400'	Surf
Inter					
Prod	5-1/2"	J-55	14# &15.5#	5,899'	2,500'
Liner					



TOC @ surf

Depth	Description
	Drilled as the Lockhart B-11 #13



TOC @ 2,500' (est)

5,600' Injection Packer

BL: 5,640' - 5,883'.

PBTD @ 5,897'
 TD @ 5,900'

Last Update: 12-19-13

Lease Name: EBDU #022W (Lockhart B-11 #13) API No: 30-025-06528

Location: 66°5'330"E
Unit P, Seal 11, T-215, R-37E County: Lee ST: NM

Injection Order Date: 5-14-13 Spud Date: 6-15-16 Well Elev: 3429' GL 10' KB

Injection Order No: WFX-909 TD Date: 7-1-56 Completion Date: 7-8-56

Permit BPD / PSI: - / 2100 TD: 5900' PBTD: 5897' TOC: 2250' (CBL)

Casing: Size: 8 5/8" Wt: 24# Grd: J-55 Dpth: 1400' Cmt: 750 sk (Circ)

Producing Formation: Blineby

Perfs: From 5704 to 5883 4/spf _____ to _____
 _____ to _____ /spf _____ to _____

Well History :

[illegible]

Well Equipment:

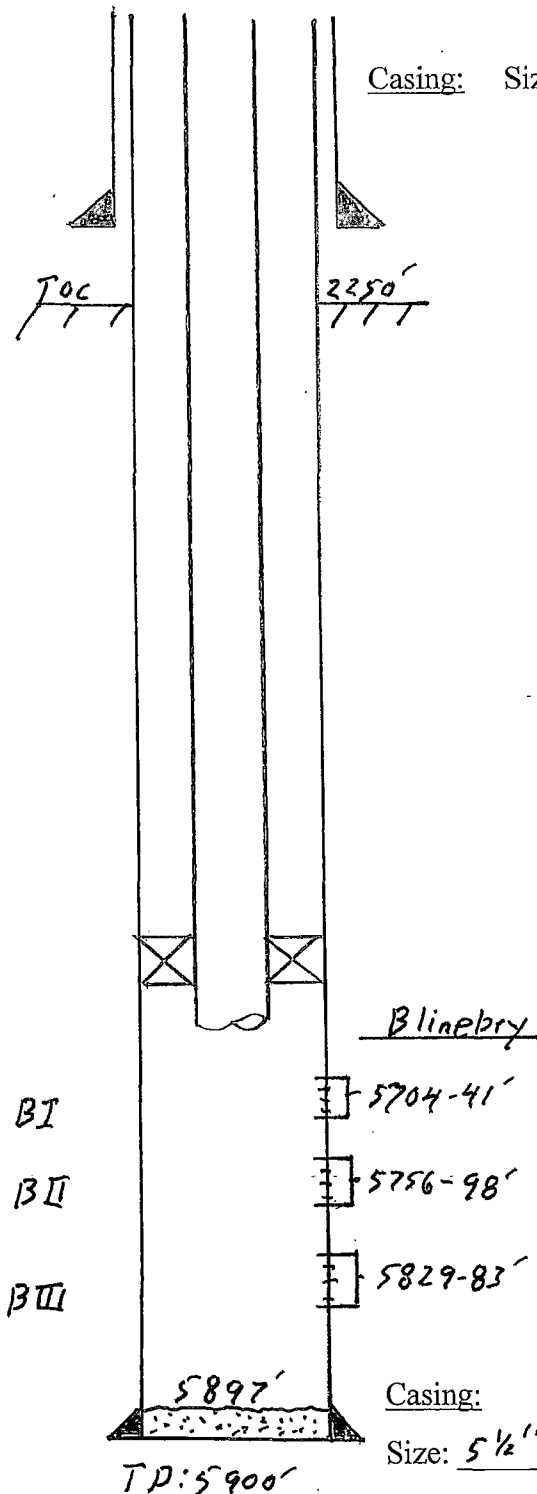
Tbg: 174 Jts 2³/₈" Size IPC Grade

Pkr Type Arrow Depth: 5661' (11-25-13)

On-off tee @ 5659"
1.50" R nipple @ 5674"
Pump out plug @ 5682"

Casing:

Size: 5 1/2' Wt: 14/15.5^{oz} Grd: J-55 Depth: 5899' Cmt: 3200 sx



State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary-Designate

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division



Administrative Order WFX-909
May 14, 2013

**ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION**

Under the provisions of Division Order R-12394, Apache Corporation has made application to the Division for permission to add three (3) water injection wells to its East Blinebry-Drinkard Unit (EBDU) Waterflood Project in the Blinebry Oil and Pool (6660) and the Drinkard Oil Pool (19190) in Lea County, New Mexico.

THE DIVISION DIRECTOR FINDS THAT:

The application has been duly filed under the provisions of Division Rule 19.15.26.8B. NMAC and satisfactory information has been provided that affected parties as defined in said rule have been notified and no objections remain outstanding. The proposed wells are eligible for conversion to injection under the terms of that rule. The applicant has presented satisfactory evidence that all requirements prescribed in Rule 19.15.26.8 NMAC have been met and the operator is in compliance with Rule 19.15.5.9 NMAC.

The proposed expansion of the above-referenced waterflood project, will prevent waste, is in the best interests of conservation, will not impair correlative rights, and should be approved.

IT IS THEREFORE ORDERED THAT:

Apache Corporation (OGRID 873), as operator, is hereby authorized to inject water into the Blinebry and Drinkard formations through plastic-lined tubing for purposes of secondary recovery. The three wells with specific information proposed in the application are:

API No.	EBDU Well #	Unit	Section	Township	Range	Top Perf.	Bottom Perf.	Tubing	Max Surf Pressure
30-025-06480	19	H	11	21S	37E	5676	6744	2.375	2100 psi
30-025-06528	22	P	11	21S	37E	5640	5883	2.375	2100 psi
30-025-06538	28	D	12	21S	37E	5690	6825	2.375	2100 psi

The approved maximum surface tubing injection pressure shall be **2100 psi** as permitted under Administrative Order IPI-292 dated February 15, 2008. This order was based on a Step-Rate Test conducted with EBDU Well No. 26 (API 30-025-06536) on December 18, 2007. The operator shall set the injection packer in individual wells no more than 100 feet above the shallowest perforation for the permitted injection interval.

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the injected fluid enters only the approved injection interval and is not permitted to escape to other formations or onto the surface.

After installing tubing, the casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge or an approved leak detection device in order to determine leakage in the casing, tubing, or packer. The casing shall be pressure tested from the surface to the packer setting depth to assure casing integrity.

The well shall pass an initial mechanical integrity test ("MIT") prior to initially commencing injection and prior to resuming injection each time any injection packer is unseated. All MIT testing procedures and schedules shall follow the requirements in Rule 19.15.26.11A. NMAC. The Division Director retains the right to require at any time wireline verification of completion and packer setting depths in this well.

The wellhead injection pressure on these wells shall be limited as listed above. In addition, the injection well or header system shall be equipped with a pressure limiting device in workable condition which shall, at all times, limit surface tubing pressures to the maximum allowable pressures for these wells.

Subject to the limitations within the hearing order permitting this project, the Director of the Division may authorize an increase in tubing pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluids from the approved injection interval. Such proper showing shall be demonstrated by sufficient evidence including but not limited to an acceptable Step-Rate Test.

The operator shall notify the supervisor of the Division's District I Office of the date and time of the installation of injection equipment and of any MIT test so that the same may be inspected and witnessed. The operator shall provide written notice of the date of commencement of injection to the District I Office. The operator shall submit monthly reports of the disposal operations on Division Form C-115, in accordance with Rules 19.15.26.13 and 19.15.7.24 NMAC.

Without limitation on the duties of the operator as provided in Rules 19.15.29 and 19.15.30 NMAC, or otherwise, the operator shall immediately notify the District I Office of any failure of the tubing, casing or packer in the approved injection well, or of any leakage or release of water, oil or gas from around any produced or plugged and abandoned well in the area, and shall take such measures as may be timely and necessary to correct such failure or leakage.

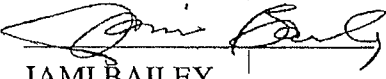
The injection authority granted under this order is not transferable except upon division approval. The division may require the operator to demonstrate mechanical integrity of any injection well that will be transferred prior to approving transfer of authority to inject.

The division may revoke this injection permit after notice and hearing if the operator is in violation of 19.15.5.9 NMAC.

Compliance with this order does not relieve the operator of the obligation to comply with other applicable federal, state or local laws or rules, or to exercise due care for the protection of fresh water, public health and safety and the environment.

PROVIDED FURTHER THAT, jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh or protectable waters or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the disposal authority granted herein. The subject wells shall be governed by all provisions of Division Order No. R-12394 and associated administrative orders.

The injection authority granted herein shall terminate two (2) years after the effective date of this order if the operator has not commenced injection operations into at least one of the subject wells, provided however, the Division, upon written request by the operator received prior to the two-year deadline, may grant an extension thereof for good cause shown.


JAMI BAILEY
Director

JB/prg

cc: New Mexico Oil Conservation Division – Hobbs
Case File 13503