Form 3160-5
(March 2012)

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.

HOBBS OCD

SUBMIT IN TRIPLICATE – *Other instructions on page 2.*

AUG 05 2014

RECEIVED

1. Type of Well ☐ Oil Well ☐ Gas Well ☑ Other Injector	5. Lease Serial No. NMLC032096B
	6. If Indian, Allottee or Tribe Name
	7. If Unit of CA/Agreement, Name and/or No. EBDU
	8. Well Name and No. East Blinebry Drinkard Unit #028 (35023)
2. Name of Operator Apache Corporation (873)	9. API Well No. 30-025-06538
3a. Address 303 Veterans Airpark Lane, Suite 1000 Midland, TX 79705	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)* 330' FNL & 660' FWL UL D Sec 12 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			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☑ Convert to Injection	☐ Plug Back	☐ 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 recomplete 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 recompletion 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

ACCEPTED FOR RECORD

Approved by	Title	Date JUN 30 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.	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)

MSB/ocd 8/5/2014

AUG 06 2014

EBDU #28

330' FNL & 660' FWL, Unit D, Sec 12, T-21-S, R-37-E
Lea County, New Mexico

Convert to Injection

Prod Csg: 7", 23#, J-55 csg @ 8,268'. Cmt'd w/940 sx cmt. Circ cmt to surf.
Yield @ 90% = 3,900 psig. Cap = 1.65346 gal/ft = 0.03937 bbl/ft.

Perfs: **BL:** 5,904' – 6,054' w/1 JSPF (8 holes, 2/65).

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 6,300', 2-7/8", 6.5# tbg. TIH w/bit, csg scraper & tbg to 6,300'. 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/cased hole log dated 7/9/1952.

5. TIH w/tbg & pull RBP. Perf additional Blinebry fr/5,770' – 5,790', 5,835' – 5,855', 5,895' – 5,915' & 6,000' – 6,020' w/2 JSPF (168 holes, 60° phasing). RDMO WL trk. TIH w/pkr & WS. Set pkr @ ~5,700'. EIR w/wtr.

6. Acidize BL perfs 5,700' – 6,054' w/10,000 gals of 15% HCl acid & 200 BS @ 6-8 BPM. Max TP 5,000 psig. Flush w/52 bbls 2% KCl wtr. SWI 2 hrs. 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".

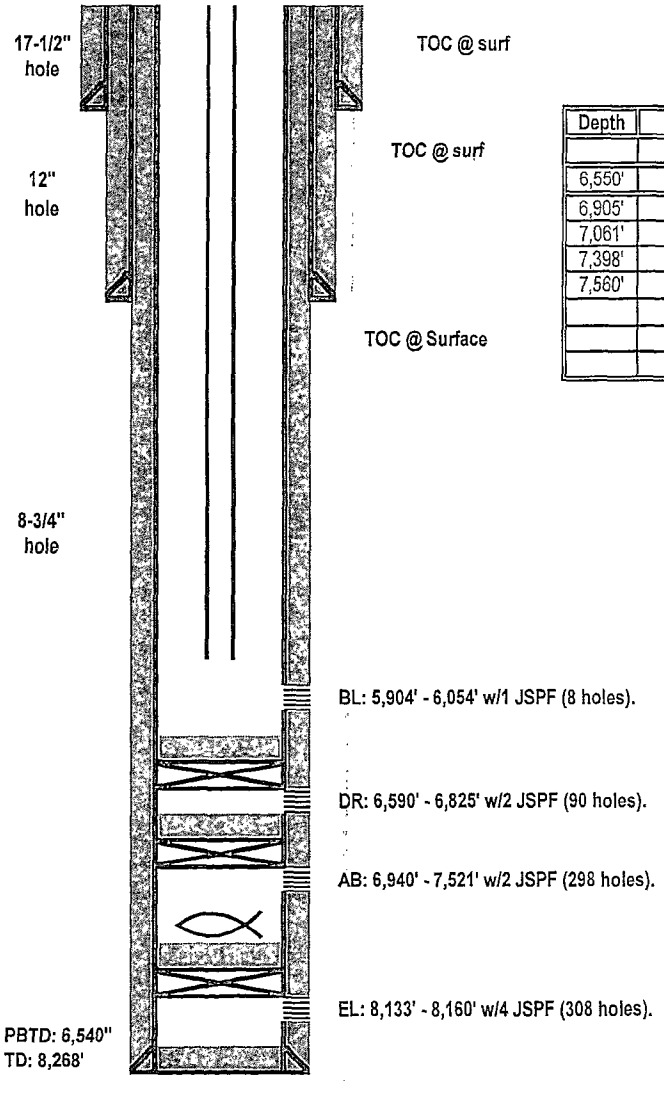
8. POH w/WS & LD. TIH w/inj string & circ hole w/pkr fluid. Latch onto pkr.

9. ND BOP. NU inj WH. Hook up to injection system & start injecting.

EBDU #28

Apache Corporation			
Co. Rep			
Well Name	EBDU	Well No.	28
Field	Eunice Area (EBDU)		
County	Lea		
State	New Mexico		
Date	2/28/2013		
GL	3,472'		
KB corr	11'		

Casing	O.D.	Grade	Wt	Depth	TOC
Surf	13"		50#	275'	Surf
Inter	9-5/8"	J-55	36#	3,149'	Surf
Prod	7"	J-55	23#	8,268'	Surf
Liner					



Depth	Description
	Drilled as Lockhart B-12 #1
6,550'	CIBP w/10' cmt
6,905'	CIBP w/12' cmt
7,061'	Fish #2: 6 jts tbg & pkr
7,398'	Fish #1: 5 jts tbg & pkr
7,560'	CIBP w/12' cmt.

Loc: 330' FNL & 660' FWL, Unit D, Sec 12, T-21-S, R-37-E, Lea Cty, NM
Field/Fmt: North Eunice / Blinebry – Drinkard
KB: 3,483' **GL:** 3,472' **KB corr:** 11'
API #: 30-025-06538 **Fed Lease:** LC-032096-B
Spud Date: 04/28/52 **Comp Date:** 07/16/52
IPP. BL: P. 58 BO, 0 BW, 16 MCF, 24 hrs.
DR: P. 10 BO, 0 BW, 11 MCF, 24 hrs.
EL: F. 512 BO, 0 BW, 414 MCF, 3/4" ck, 6 hrs.
Perfs: BL: 5,904' – 6,054' w/1 JSPF (8 holes).
DR: 6,590' – 6,825' w/2 JSPF (90 holes). CIBP @ 6,550'.
AB: 6,940' – 7,521' w/2 JSPF (298 holes). CIBP @ 6,905'.
EL: 8,133' – 8,160' w/4 JSPF (308 holes). CIBP @ 7,560'.

HISTORY:

04/28/52: Spudded 17-1/2" hole as the Lockhart B-12 #1 by Continental Oil Company.
05/12/52: Set 13", 50# csg @ 275'. Cmt'd w/250 sx cmt. Circ cmt to surf.
05/15/52: Set 9-5/8", 36#, J-55 csg @ 3,149'. Cmt'd w/1,518 sx cmt. Circ cmt to surf.
05/29/52: DST #1 (5,750' – 6,060'): Op 1 hr. Lt blow of air throughout. Rec'd 1,140' SW, tr O&G. FP 700 psig, SIP 1,400 psig.
06/11/52: DST #2 (7,020' – 7,320'): Op 1 hr. Lt blow air for 25".
06/15/52: DST #3 (7,350' – 7,580'): Op 1 hr. Lt blow air for 1'. Rec'd 110' DM. No press.
06/20/52: DST #4 (7,806' – 7,875'): Op 2 hrs. GTS in 4", FTS in 30". F. 34 BO, 815 MCF in 1 hr. FP 1,160 – 1,110 psig. SIP 2340 psig.
06/26/52: DST #5 (8,085' – 8,123'): Op 1.75 hrs. GTS in 4", FTS in 30". F. 25.5 BO, 571 MCF in 1 hr. FP 1,200 psig. SIP 2,375 psig.
06/28/52: DST #6 (8,170' – 8,230'): Op 30 min. Lt blow air for 30" & died. Rec'd 50' DM.
07/01/52: TD @ 8,628'. DST #7 (8,230' – 8,289'): Op 30 min. Lt blow air for 6". Rec'd 40' DM. No shows or press.
07/03/52: Set 7", 23#, J-55 csg @ 8,628'. Cmt'd w/940 sx cmt.
07/09/52: TOC @ surf. Perf Ellenburger fr/8,170' – 8,221' w/4 JSPF (200 holes) & fr/8,133' – 8,160 w/4 JSPF (108 holes).
07/11/52: Acidized 8,171'- 8,221' w/4,000 gals acid.
07/13/52: Acidized 8,133' – 8,160' w/3,000 gals acid.
03/08/62: POH w/prod eq. Set CIBP @ 7,560' & capped w/12' cmt. Ran CBL.
03/09/62: Perf Abo fr/6,940' – 60', 7,080' – 7,110', 65' – 80', 90' – 7,200', 7,335' – 53', 60' – 75' & 7,480' – 7,521' w/2 JSPF (298 holes). Acidized fr/7,480' – 7,521' w/5,000 gals NEFE acid. BD perfs @ 6,500 psig. Acidized fr/7,335' – 7,375' w/4,000 gals NEFE acid. BD perfs @ 5,300 psig. Acidized fr/7,080' – 7,200' w/6,700 gals NEFE acid. Acidize fr/6,940' – 6,960' w/2,300 gals NEFE acid. POH 2-1/2" tbg w/3 pkrs. **Left 1 pkr in hole w/5 jts 2-1/2" tbg.** Perfs 6,940' – 6,960' & 7,080' – 7,200' did not treat.

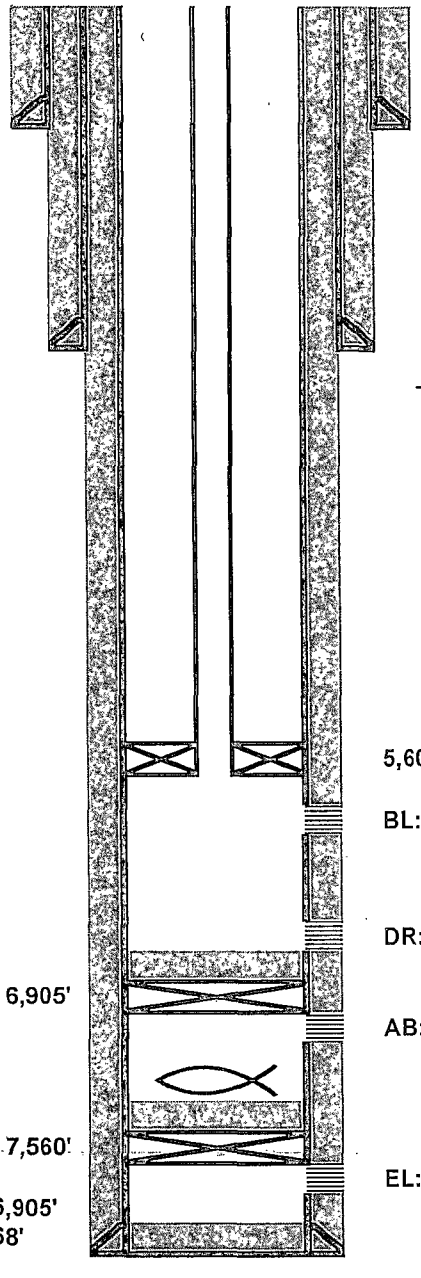
03/13/62: TIH w/socket. Failed to catch fish.
03/14/62: TIH w/milling shoe & milled on tbg fr/7,260' – 7,268'.
03/15/62: TIH w/socket & rec'd 3' of tbg. Pushed pkr & rest of tbg to btm. **TOF @ 7,398'.** Prep to run straddle pkr & retreat Abo perfs 6,940' – 60' & 7,080' – 7,200'. Then test well & if justified will rec fish.
03/16/62: Acidized 7,080' – 7,200' w/2,000 gals 15% acid. Ppd in on vac. Acidize 6,940' – 6,960' w/2,000 gals 15% acid. Instant drop to vac.
03/19/62: Attempt to pull multiple pkrs and 2-1/2" tbg. Tbg parted & left pkr w/6 jts tbg in hole. Ran wash pipe w/cutrite shoe. WO over 2-1/2" tbg fr/7,060' – 7,068'. Ran socket & jars. Rec'd 12" piece of 2-1/2" tbg. Re-ran socket & jars. Unable to get over fish.
03/20/62: RIH w/washover shoe, jars & collars. WO fr/7,061' – 7,072'. Ran overshot.
03/21/62: Failed to rec fish. **TOF @ 7,061'.** RIH w/pkr & tbg to 6,902'. Swb'd no oil or wtr in 8 hrs.
03/22/62: Swb'd no oil or wtr in 7 hrs. No fluid entry or gas build up after 4 hrs.
03/26/62: Set CIBP @ 6,905' & capped w/12' cmt. PBTD @ 6,893'. Perf Drinkard fr/6,590' – 6,600', 6,640' – 6,645', 6,665' – 6,670', 6,715' – 6,720', 6,730' – 6,735', 6,800' – 6,805' & 6,820' – 6,825' w/2 JSPF (90 holes).
03/27/62: Acidfrac perfs w/10,000 gals. BD perfs @ 4,500 psig. Treated @ 6,000 psig w/o sd. Tried sd & put away 600# but had to stop. AIR 8.6 BPM. 5" SIP 2,400 psig.
03/29/62: Swb 51 BLO in 10 hrs, 22 BAW in 7 hrs, then swb dry.
04/18/62: IPP. 10 BO, 0 BW, 11 MCF, 24 hrs.
02/23/65: POH w/tbg. Set CIBP @ 6,550' & capped w/10' cmt. PBTD @ 6,540'. Perf Blinebry @ 5,904', 23', 42', 76', 87', 6,003', 37', 54' w/1 JSPF (8 holes).
02/24/65: Set pkr @ 5,880'. Acidize w/1,000 gals 15% acid. Frac w/30,000 gals carrying 30,000# & 1,500# Adomite w/additives. AIR 10.4 BPM @ 6,000 psig. ISIP 2,600 psig.
02/25/65: POH w/pkr. TIH w/prod equip. EOT @ 6,012' w/SN @ 5,982'.
03/10/65: IPP. 58 BO, 0 BW, 16 MCF, 24 hrs.
12/19/69: POH w/rods & pmp. HO tbg to remove paraffin.
04/21/72: Pmp change due to stuck pmp.
09/22/75: HO tbg w/40 bbls & swb'd back. Ppd 500 gals 15% acid w/200 gals paraffin solvent, left over night.
09/23/75: HO csg w/60 bbls, swb 103 bbls. RIH w/new pmp and rods.
05/04/79: Changed out pmp.
02/05/90: Pmp stuck. POH w/pmp & rods. HO dwn tbg, pressure up to 500 psig, hot oil dwn csg. Fin POH w/rods & parted pmp.
02/06/90: POH w/tbg. 12 jts packed w/paraffin. HO tbg w/50 bbls. TIH w/pmp & rods. 192 jts 2-7/8" tbg, 38 – 1" rods, 77 – 7/8" rods & 123 – 3/4" rods.
04/01/99: Apache Corporation took over operations fr/Conoco, Inc.
09/01/05: Name chg'd fr/Lockhart B-12 #1 to East Blinebry Drinkard Unit #28.

PROPOSED STATUS

Apache Corporation

Co. Rep	
Well Name	EBDU — Well No. 28
Field	Eunice Area (EBDU)
County	Lea
State	New Mexico
Date	2/28/2013
GL	3,472'
KB corr	11'

Casing	O.D.	Grade	Wt	Depth	TOC
Surf	13"		50#	275'	Surf
Inter	9-5/8"	J-55	36#	3,149'	Surf
Prod	7"	J-55	23#	8,268'	Surf
Liner					



Depth	Description
	Drilled as Lockhart B-12 #1
5,600'	Injection Packer
6,905'	CIBP w/12' cmt
7,061'	Fish #2: 6 jts tbg & pkr
7,398'	Fish #1: 5 jts tbg & pkr
7,560'	CIBP w/12' cmt.

WELL DATA SHEET Last Update: 11-20-13

Lease Name: EBDU #028W (Lockhart B-12 #1) API No: 30-025-06538

Location: 330'N/660'W Unit D, Sec 12, T-21S, R-37E County: Lea ST: NM

Injection Order Date: 5-14-13 Spud Date: 4-29-52 Well Elev: 3472' GL 11' KB

Injection Order No: WFX-909 TD Date: 6-30-52 Completion Date: 7-16-52

Permit BPD / PSI: - / 2100 TD: 8268' PBTD: 6540' TOC: surf

13" 50# - 275' 250 sx(circ)

Casing: Size: 9 5/8" Wt: 36# Grd: J-55 Dpth: 3149' Cmt: 1517 sx (Circ)

Producing Formation: Blinebry

Perfs: From 5770' to 6020' 2/spf ____ to ____

5923' to 6054' 1/spf ____ to ____

Well History :

Blinebry

BI 5770-90

BII 5835-55

BIII 5895-5915

5923, 42

5976, 87

BIV 6000-20

6037, 54

IBP @ 6550' w/ 10' cmt cap

6540'

Drinkard

DI 6590-6600

6640-45, 65-70

DII 6715-20, 30-35,

6750-55

DIV 6800-05

6820-25

6905'

IBP @ 6915' w/ 2 sx cmt

Abo

6940-60, 7080-7110,

7165-80, 90, 7200

7335-53, 60-75,

7480-7521

7550'

IBP @ 7560' w/ 2 sx cmt

Ellenburger

8133-60

8171-8221

8262'

TD: 8268'

Well Equipment:

Tbg: 175 Jts 2 3/8" Size 4.7# IPC Grade

Pkr Type Arrow Depth: 5706' (11-14-13)

On-off tool @ 5704' Poor boy @ 5728'

1.50" R nipple @ 5720'

Casing:

Size: 7" Wt: 23/26# Grd: J-55 N-80 S-95 Depth: 8268' Cmt: 940 sx (Circ)

State of New Mexico
Energy, Minerals and Natural Resources Department

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