

Submit 1 Copy To Appropriate District  
Office  
District I - (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
District II - (575) 748-1283  
811 S. First St., Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV - (505) 476-3460  
1220 S. St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-103  
Revised July 18, 2013

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-06643
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator Apache Corporation		6. State Oil & Gas Lease No.
3. Address of Operator 303 Veterans Airpark Lane, Suite 1000 Midland, TX 79705		7. Lease Name or Unit Agreement Name West Blinbry Drinkard Unit (WBDU) / 37346
4. Well Location Unit Letter <u>N</u> : <u>660</u> feet from the <u>South</u> line and <u>1980</u> feet from the <u>West</u> line Section <u>17</u> Township <u>21S</u> Range <u>37E</u> NMPM County <u>Lea</u>		8. Well Number <u>087</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3499' GL		9. OGRID Number 873
		10. Pool name or Wildcat Eunice; B-T-D, North (22900)

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: CONVERT TO INJECTION <input checked="" type="checkbox"/> <b>+ DEEPEN</b>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Apache intends to deepen this well, run a liner and convert to a Drinkard injector, per the attached procedure and WBD's.

Spud Date: 11/23/1949 Rig Release Date: 1/3/1950

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Reesa Fisher TITLE Sr. Staff Reg Analyst DATE 1/11/2017

Type or print name Reesa Fisher E-mail address: Reesa.Fisher@apachecorp.com PHONE: (432) 818-1062

**For State Use Only**

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE 01/21/17  
Conditions of Approval (if any):

**WBDU 87: Deepen Well, Run Liner, and Convert Well to Injection in the Drinkard Formation (30-025-016643)**

**January 10, 2017**

**Day 0:** Prior to start of workover: Schedule and install buried fiberglass injection line.

**Day 1/2:** MIRU. POOH and LD pump and rods. ND WH and NU BOPs. POOH and LD 2-3/8" production tubing.

**Day 3:** RIH w/ bit on 2-7/8" work string. Tag cement at 6443' and drill out cement to top of packer at 6460', RU Foam N2 Unit as required. POOH w/ WS and lay down bit. PU washover shoe and RIH to cut out CIBP.

**Day 4/5:** Continue cutting over CIBP. Latch onto fish, POOH and lay down washover shoe. PU packer milling tool and RIH and tie into packer bore. Begin milling out model D packer.

**Day 6/7:** Continue to mill out packer/fish tailpipe. POOH w/ packer and tailpipe.

**Day 8/9:** RIH w/ bit and tag PBTD @ 6659'. Drill to new TD at 6809' (+/- 75' below proposed bottom perf).

**Day 10:** Complete drilling well out well to new TD at +/- 6809'. Circulate wellbore clean and POOH and LD 2-7/8" work string and bit.

**Day 11:** RU casing crew and equipment and RIH with 4-1/2" 11.6 lb/ft flush joint casing with float collar and float shoe to +/- 6809'.

RU cement crew, perform single stage cement job to surface consisting of 300 bbl fresh water flush, 80 bbl stop loss spacer, and 181 sacks of TXI Lite cement + additives (weight 12.5 ppg, yield 1.64 cf/sack, volume 52.9 bbl), and 71 sacks of TXI Lite cement + additives (weight 13.2 ppg, yield 1.39 cf/sack, volume 17.6 bbl). Total 150% excess slurry of 70.5 bbl. Displace with 105 bbls fresh water (confirm all volumes).

**Day 12:** WOC

**Day 13:** RIH w/ 3-1/4" bit on 2-3/8" work string. Drill out float collar and cement to +/- 6794'. Circulate clean. POOH

**Day 14:** MIRU WL and RIH w/ GR/CBL/CCL/CNL, log well from TD to surface, POOH

PU and RIH w/ 3-1/8" TAGs loaded with SDP charges and perforate the Drinkard @ 4 SPF, 90 deg phasing (estimated 70', 280 shots), POOH

PU and RIH w/ treating packer on 2-3/8" work string

**Day 15:** Cont. RIH w/ treating packer on 2-3/8" work string. Set packer @ +/-6500'

MIRU acid crew. Acidize the Drinkard w/10,000 gals 15% HCl and rock salt in 3 equal stages @ +/- 10 BPM. Release packer. Wash out salt. POOH

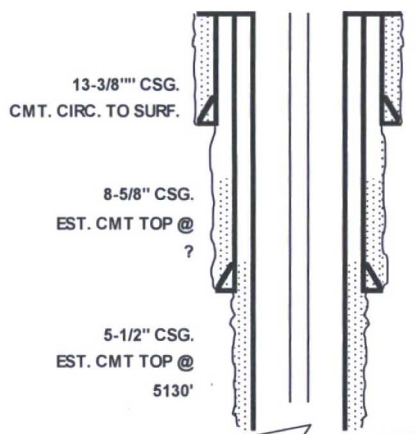
**Day 16:** PU and RIH with 4-1/2" injection packer with 2-3/8" IPC tubing subs, upper and lower profile nipples, and on/off tool on 2-3/8" work string. Set packer @ +/-6540'. Release on/off tool and pressure test casing to 500 psi. POOH and LD 2-3/8" work string

**Day 17:** PU & RIH w/2-3/8" IPC injection tubing and on/off tool. Circulate packer fluid and latch onto packer with on/off tool. ND BOPs and NU WH. Pressure test casing to 500 psi. RDMO.

**Day 18:** Perform MIT test for NM OCD. Perform bottom hole static pressure test. Place well on injection.



**Apache Corporation**  
**WBDU #87 (Hardy Blinebry Unit #3)**  
**WELL DIAGRAM (CURRENT CONFIGURATION)**



**Tail Pipe (2" EUE pipe)**  
 Baker Ring Gasket (2.25')  
 1JT (28.01')  
 1JT (28')  
 Seating nipple (11'), 6578'  
 1JT (28')  
 Garret Sleeve (2.48'), 6607'  
 1 JT (22.26')  
 Bull Plug @ 6630'

**Blinebry Perfs:**  
 5662'-78'  
 5710'-22'  
 5820, 33, 45  
 5856, 65, 74, 88'  
 5904, 08, 18'

TOC @ 6443'  
 CIBP @ 6460' w/ 2 SX  
 Model D Packer @ 6520'  
**Inside Tubing**  
 Tubing Plug @ 6542'  
 Collar Stop @ 6549'  
 Perf 6576' w/ 2 holes (0.25')  
 Tag sand/Formseal @ 6578'

**Drinkard OH:**  
 6599'-6659'

**PBTD 6443'**  
**TD: 6659'**

WELL NAME:		WBDU #87 (Hardy Blinebry Unit #3)		API:		30-025-06643	
LOCATION:		660' FSL & 1980' FwL. Unit C SE-SW, Sec 17, T-21S, R-37E		COUNTY:		Lea Co., NM	
SPUD/TD DATE:		11/23/1949 - 1/4/1950		COMP. DATE:		1/8/1950	
PREPARED BY:		Kris Hasselbach		DIAGRAM DATE:		12/19/2016	
TD (ft): 6659'		KB Elev. (ft): 3499		KB to Ground (ft)		9	
PBTD (ft): 6443'		Ground Elev. (ft): 3490					
CASING/TUBING	SIZE (IN)	WEIGHT (LB/FT)	GRADE		DEPTHS (FT)		
Surface Casing	13-3/8" (Cmt. w/ 200 sx, Circ.)	48.0			0	194'	
Int Casing	8-5/8" (Cmt. w/ 1500sx, TOC @?)	28.0			0	2842'	
Prod. Casing	5-1/2" (Cmt. w/ 300sx, TOC @ 5130', est)	15.5			0	6599'	
Tubing	2-3/8"	4.7	J-55		0.00	6,022	
PRODUCTION TBG STRING							
ITEM	DESCRIPTION				LENGTH (FT)	Depth (FT)	
1	193 JTS 2-3/8" 4.7 LB/FT J-55 TBG						
2	TAC					5616.00	
3	SN					6022.00	
4							
5							
6							
7							
8							
9							
10							
PRODUCTION ROD STRING							
ITEM	DESCRIPTION				LENGTH (FT)	Btm (FT)	
1	113 JTS 7/8" RODS				2,825.00		
2	126 JTS 3/4" RODS				3,150.00		
3	BHP: 2" X 1-1/4" X 16' RH-BC				16.00		
4							
5							
6							
7							
8							
9							
10							
SURFACE EQUIPMENT							
PUMPING UNIT SIZE:				MOTOR HP:			
PUMPING UNIT MAKE:				MOTOR MAKE:			
PERFORATIONS							
Form.	Intervals				FT	SPF	
Blinebry	5662'-78', 5710'-5722' 5820,33,45,56,6574,88,5904,08,18'				16,12 9	4 1	
DKRD (OH)	6599'-6659'						

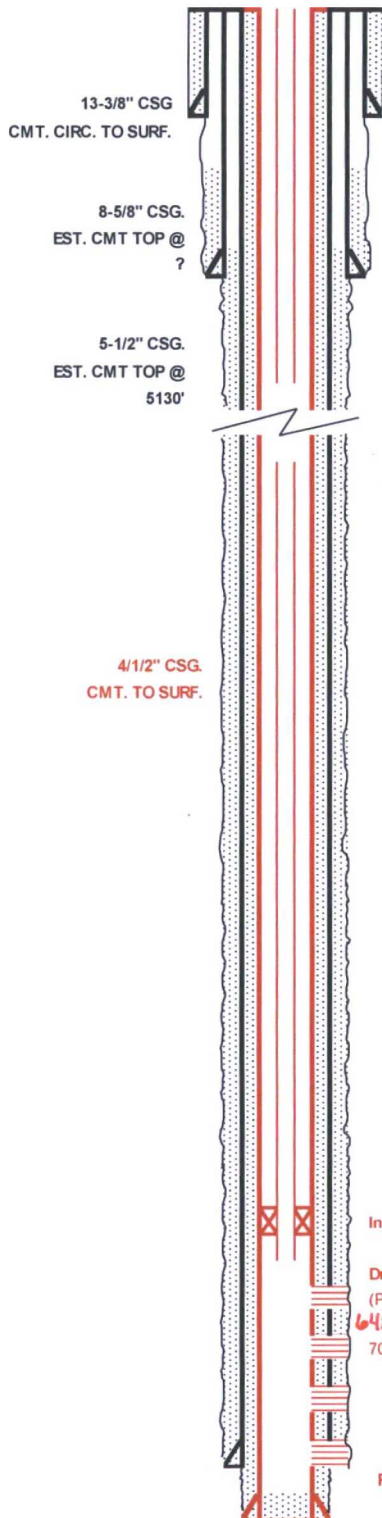
**Notes:**

1/8/1950: Acidize Drinkard OH w/ 1000 gals 15% HCl  
 6/1958: Perf/Acidize Blinebry f/ 5662'-78' ( 500 gals BDA + 2000 gals 15% HCl)  
 Perf/Acidize Blinebry f/ 5710'-22' (500 gals BDA + 2000 gals 15% HCl)  
 6/25/1958: Frac Blinebry 5662'-5722' w/ 8000 gals 7.5% HCl + 8000# 20/40, 16.7 BPM @ 2600#  
 3/4/1983: Perf Blinebry 5820,33,45,56,65,74,88,5904,08,18 w/ 1 SPF. Acidize w/ 1500 gals 15%  
 Frac Blinebry 5662'-5918' w/ 54,000# 20/40 @ 21 BPM, 4000 psi

# Apache Corporation

WBDU #87W (Weatherly #1)

WELL DIAGRAM (PROPOSED CONFIGURATION)



WELL NAME: WBDU #87W (Weatherly #1)		API: 30-025-06643			
LOCATION: 660' FSL & 1980' FwL. Unit C SE-SW, Sec 17, T-21S, R-37E		COUNTY: Lea Co., NM			
SPUD/TD DATE: 11/23/1949 - 1/4/1950		COMP. DATE: 1/8/1950			
PREPARED BY: Kris Haselbach		DIAGRAM DATE: 12/19/2016			
TD (ft): 6,809	KB Elev. (ft): 3499	KB to Ground (ft) 9			
PBTD (ft): 6,794	Ground Elev. (ft): 3490				
CASING/TUBING	SIZE (IN)	WEIGHT (LB/FT)	GRADE	DEPTHS (FT)	
Surface Casing	13 3/8" (Cmt. w/ 200sx, Circ.)	48.0		0 282	
Int. Casing	8-5/8" (Cmt. w/ 1500sx, TOC @ ?)	28.0		0 2,759	
Prod. Casing	5-1/2" (Cmt. w/ 300sx, est. TOC @ 5130')	15.5		0 6,592	
Liner	4-1/2" (Cmt. to surf)	11.6	J-55	0.00 6,809	
Injection Tubing	2-3/8"	4.7	J-55 IPC	0.00 6,515	
INJECTION TBG STRING					
ITEM	DESCRIPTION			LENGTH (FT)	Depth (FT)
1	2-3/8" 4.7 LB/FT J-55 IPC TBG			6,540.00	6540.00
2	2-3/8" ON/OFF TOOL W/ 1.78 F PROFILE			1.80	6541.80
3	2-3/8" X 4-1/2" NICKLE PLATED ARROW-SET PKR			6.20	6548.00
4	2-3/8" 4.7 LB/FT J-55 IPC TBG			8.00	6556.00
5	2-3/8" PROFILE NIPPLE 1.50 R			0.90	6556.90
6	2-3/8" 4.7 LB/FT J-55 IPC TBG			6.00	6562.90
7					
8					
9					
10					
PERFORATIONS					
Form.	Intervals			FT	SPF
Blinebry					
Tubb					
Drinkard	6574' - 6734' (estimated)			70	4

Inj. Pkr @ +/-6540'

Drinkard Perfs:

(Proposed)  
6482' - 6754' (estimated)  
70', 280 shots (estimated)

PBTD: 6,794.0

TD: 6,809.0

## Notes:

1/8/1950: Acidize Drinkard OH w/ 1000 gals 15% HCl  
6/1958: Perf/Acidize Blinbry f/ 5662'-78' ( 500 gals BDA + 2000 gals 15% HCl)  
Perf/Acidize Blinbry f/ 5710'-22' (500 gals BDA + 2000 gals 15% HCl)  
6/25/1958: Frac Blinbry 5662'-5722' w/ 8000 gals 7.5% HCl + 8000# 20/40, 16.7 BPM @2600#  
3/4/1983: Perf Blinbry 5820,33,45,56,65,74,88,5904,08,18 w/ 1 SPF. Acidize w/ 1500 gals 15%  
Frac Blinbry 5662'-5918' w/ 54,000# 20/40 @ 21 BPM, 4000 psi