

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

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-06652
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name West Blinbry Drinkard Unit (WBDU) / 37346
8. Well Number 085
9. OGRID Number 873
10. Pool name or Wildcat Eunice; B-T-D, North (22900)
4. Well Location Unit Letter P : 660 feet from the FSL line and 660 feet from the FEL line Section 17 Township 21S Range 37E NMPM County Lea
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3477' GL

SUNDRY NOTICES AND REPORTS ON WELLS
(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.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator
Apache Corporation

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

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

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
DOWNHOLE COMMINGLE ☐	CASING/CEMENT JOB ☐
CLOSED-LOOP SYSTEM ☐	OTHER: ☐
OTHER: CONVERT TO INJECTION ☒	

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 would like to convert this well to injection, per the attached procedure and WBD's.

Condition of Approval: notify
OCD Hobbs office 24 hours
prior of running MIT Test & Chart

WFX-96Z

Spud Date:

4/24/1947

Rig Release Date:

6/30/1947

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 12/19/2016

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

For State Use Only

APPROVED BY: Maley S Brown TITLE AO/II DATE 3/8/2017

Conditions of Approval (if any):

WBDU 85: Deepen Well, Run Liner, and Convert Well to Injection in the Drinkard Formation (30-025-06652)

December 15, 2016

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/ tungsten carbide bit on 2-7/8" work string to top of CIBP at +/- 6532'. Drill out CIBP. RU Foam N2 Unit as required. POOH w/tungsten carbide bit and work string.

Day 4: RIH w/seal bearing bit and drill out plastic, sand, gravel and more plastic from 6617' to original TD of 6657'. Continue to drill well out to new TD @ +/-6765' (+/- 75' from proposed bottom perf).

Day 5/6: Drill out well to new TD at +/- 6765'. Circulate wellbore clean and POOH and LD 2-7/8" work string and bit.

Day 7: 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 +/- 6765'.

RU cement crew, perform single stage cement job to surface consisting of 300 bbl fresh water flush, 40 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 8: WOC

Day 9: RIH w/ 3-1/4" bit on 2-3/8" work string. Drill out float collar and cement to +/- 6750'. Circulate clean. POOH

Day 10: 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 11: Cont. RIH w/ treating packer on 2-3/8" work string. Set packer @ +/-6450'

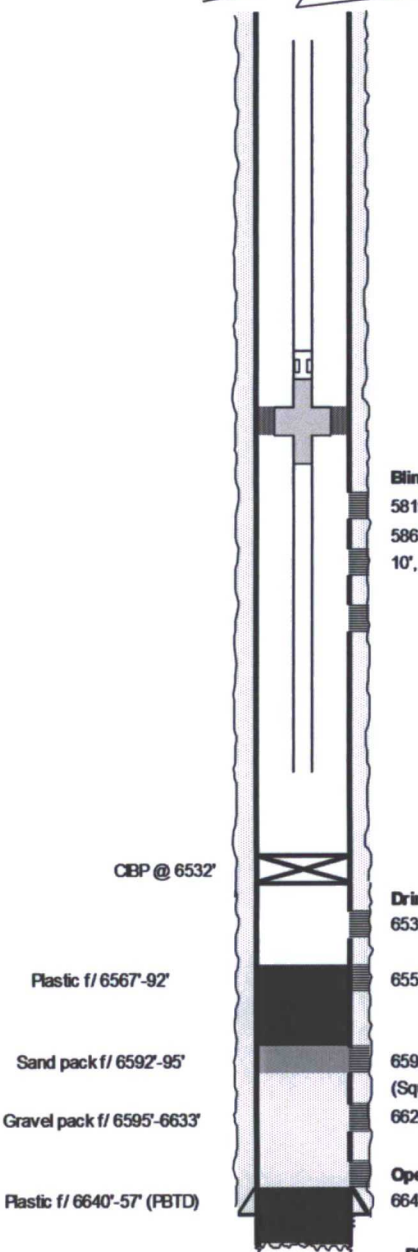
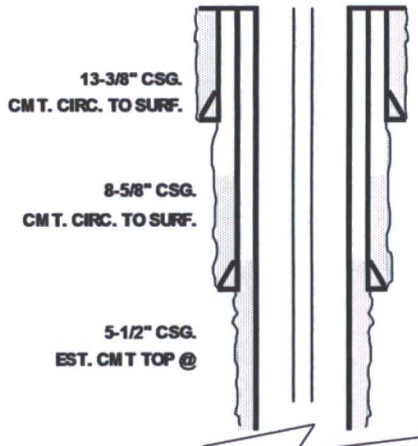
MIRU acid crew. Acidize the Drinkard w/10,000 gals 15% HCl and rock salt in 3 equal stages @ +/- 10 BPM. Release packer. Wash out salt. POOH

Day 12: 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 @ +/-6450'. Release on/off tool and pressure test casing to 500 psi. POOH and LD 2-3/8" work string

Day 13: 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 14: Perform MIT test for NM OCD. Perform bottom hole static pressure test. Place well on injection.

Apache Corporation
WBDU #85 (Hardy Blinebry Unit #1)
WELL DIAGRAM (CURRENT CONFIGURATION)



Blinebry Perfs:
5819', 23, 32, 37, 46, 51, 55
5865', 77, 81
10', 10 shots

Drinkard Perfs
6539'-41'

6554'-80'

6592'-6615'

(Squeezed) 6615'-20'

6620'-37'

Open Hole

6642'-57'

PBTD 6,532.0

TD: 6,657.0

WELL NAME:		WBDU #85 (Hardy Blinebry Unit #1)		API:		30-025-06652	
LOCATION:		660' FSL & 660' FEL, Sec 17, T-21S, R-37E		COUNTY:		Lea Co., NM	
SPUD/TD DATE:		4/24/1947 - 6/21/1947		COMP. DATE:		6/27/1947	
PREPARED BY:		Kris Hasselbach		DIAGRAM DATE:		12/15/2016	
TD (ft): 6,657		KB Elev. (ft): 3478		KB to Ground (ft)		11	
PBTD (ft): 6,532		Ground Elev. (ft): 3467					
CASING/TUBING	SIZE (IN)	WEIGHT (LB/FT)	GRADE	DEPTHS (FT)			
Surface Casing	13-3/8" (Cmt. w/ 300sx, Circ.)	36.0	?	0 297			
Int. Casing	8-5/8" (Cmt. w/ 1200sx, TOC?)	32.0	H-40	0 2,814			
Prod. Casing	5-1/2" (Cmt. w/ 500sx, TOC @)	15.5	J-55	0 6,641			
Tubing	2-3/8"	4.7	J-55	0 5,909			
PRODUCTION TBG STRING							
ITEM	DESCRIPTION			LENGTH (FT)	Depth (FT)		
1	192 JTS 2-3/8" 4.7 LB/FT J-55 TBG						
2	TAC				5713		
3	SN				5909		
4							
5							
PRODUCTION ROD STRING							
ITEM	DESCRIPTION			LENGTH (FT)	Btm (FT)		
1	62 JTS 7/8" RODS			1,550			
2	171 JTS 3/4" RODS			4,275			
3	BHP: 2" X 1-1/2" X 16' RHBC			16			
4							
5							
SURFACE EQUIPMENT							
PUMPING UNIT SIZE:		Bethlehem 160		MOTOR HP:			
PUMPING UNIT MAKE:				MOTOR MAKE:			
PERFORATIONS							
Form.	Intervals			FT	SPF		
Blinebry	5819, 23, 32, 37, 46, 51, 55, 65, 77, 81'			10	1		
Drinkard	6539'-41', 54'-80'			28	5/4		
	6620'-37', 6592'-6620			45	8		
	(Squeezed) 6615'-20'			5	8		

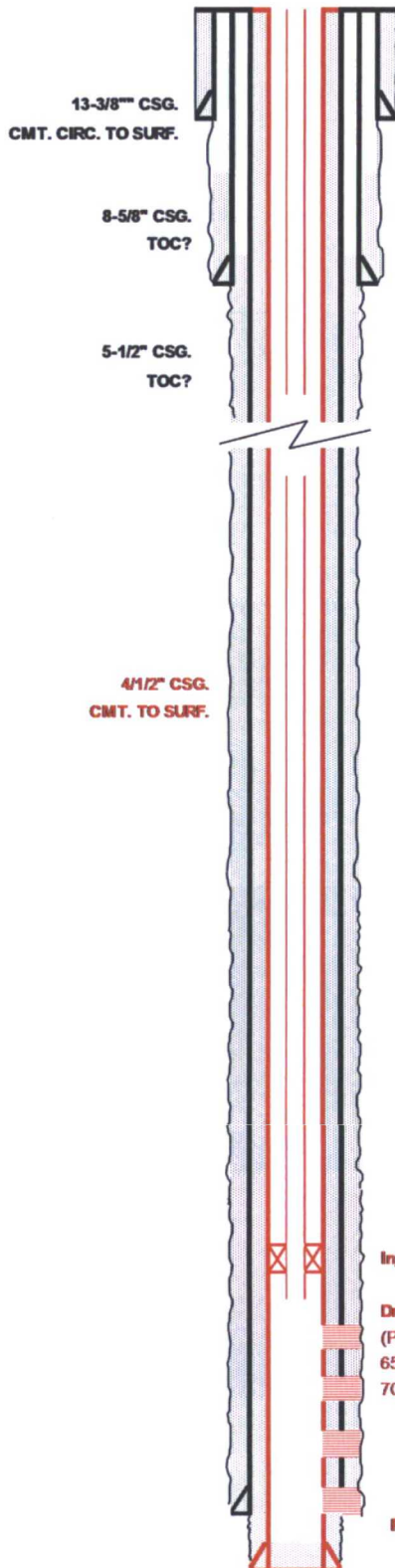
Notes:

6/7/1947- Perf Drinkard 6615'-20', test prod, squeezed w/ 50 SX cmt.
6/11/1947- Perf Drinkard 6620'-37'. Acidize w/ 1000 gals 15% HCl
6/17/1947- Perf Drinkard 6539'-41', 6554'-80' Acidize each interval w/ 1000 gals 15% (2000 gals
6/21/1947- Drill OH from 6642'-57'
6/27/1947- Plug back OH to 6640' w/ Dowell Plastic
10/4/1947- Commenciation btwn perfs @ 6554'-80' & 6592'-6637'. Set gravel pack f/ 6595'-6633',
sand pack f/ 6592'-95', plastic plug f/ 6567'-92'
10/11/1947- Acidize Drinkard f/ 6539'-67' w/ 500 gals 15% Hcl
12/10/1947- Acidize Drinkard f/ 6539'-67' w/ 2000 gals 15% HCl
6/1/1958- Acidize Drinkard f/ 6539'-57' w/ 2000 gals 15% HCl
2/2/1966- Perf Blinebry 5819', 23, 32, 37, 46, 51, 55, 65, 77, 81' 1 SPF. Acidize w/ 874 gals 15% HCl,
Frac Blinebry w/ 30000 gals oil + 30000# 20/40 sd, 24 BPM @ 5300 psi
3/14/1989- Acidize Blinebry w/ 3000 gals 15% HCl, 3 BPM, 2800 psi

Estimated Drinkard Top: 6457'

Estimated Abo Top: 6752'

Apache Corporation
WBDU #85W (Hardy Blinebry Unit #1)
WELL DIAGRAM (PROPOSED CONFIGURATION)



WELL NAME:		WBDU #85W (Hardy Blinebry Unit #1)		API:		30-025-06652	
LOCATION:		660' FSL & 660' FEL, Sec 17, T-21S, R-37E		COUNTY:		Lea Co., NM	
SPUD/TD DATE:		4/24/1947 - 6/21/1947		COMP. DATE:		6/27/1947	
PREPARED BY:		Kris Hasselbach		DIAGRAM DATE:		12/15/2016	
TD (ft): 6,765		KB Elev. (ft): 3478		KB to Ground (ft)		11	
PBTD (ft): 6,750		Ground Elev. (ft): 3467					
CASING/TUBING	SIZE (IN)	WEIGHT (LB/FT)	GRADE	DEPTHS (FT)			
Surface Casing	13-3/8" (Cmt. w/ 300sx, Circ.)	36.0		0 297			
Int. Casing	8-5/8" (Cmt. w/ 1200sx, TOC?)	32.0	H-40	0 2,814			
Prod. Casing	5-1/2" (Cmt. w/ 500sx, TOC?)	15.5	J-55	0 6,641			
Liner	4-1/2" (Cmt. to surf)	11.6	J-55	0.00 6,765			
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			6,440	6,440		
2	2-3/8" ON/OFF TOOL W/ 1.78 F PROFILE			2	6,442		
3	2-3/8" X 4-1/2" NICKLE PLATED ARROW-SET PKR			6	6,448		
4	2-3/8" 4.7 LB/FT J-55 IPC TBG			8	6,456		
5	2-3/8" PROFILE NIPPLE 1.50 R			1	6,457		
6	2-3/8" 4.7 LB/FT J-55 IPC TBG			6	6,463		
7							
8							
9							
10							
PERFORATIONS							
Form.	Intervals			FT	SPF		
Blinebry							
Tubb							
Drinkard	6538 - 6690' (estimated)			70	4		

Notes:

6/7/1947- Perf Drinkard 6615'-20'; test prod, squeezed w/ 50 SX cmt.
6/11/1947- Perf Drinkard 6620'-37'. Acidize w/ 1000 gals 15% HCl
6/17/1947- Perf Drinkard 6539'-41', 6554'-80' Acidize each interval w/ 1000 gals 15% (2000
6/21/1947- Drill OH from 6642'-57'
6/27/1947- Plug back OH to 6640' w/ Dowell Plastic
10/4/1947- Comminciation btwn perms @ 6554'-80' & 6592'-6637'. Set gravel pack f/ 6595'-6633', sand pack f/ 6592'-95', plastic plug f/ 6567'-92'
10/11/1947- Acidize Drinkard f/ 6539'-67' w/ 500 gals 15% Hcl
12/10/1947- Acidize Drinkard f/ 6539'-67' w/ 2000 gals 15% HCl
6/1/1958- Acidize Drinkard f/ 6539'-57' w/ 2000 gals 15% HCl
2/2/1966- Perf Blinebry 5819', 23, 32, 37, 46, 51, 55, 65, 77, 81' 1 SPF. Acidize w/ 874 gals 15% HCl, Frac Blinebry w/ 30000 gals oil + 30000# 20/40 sd, 24 BPM @ 5300 psi
3/14/1989- Acidize Blinebry w/ 3000 gals 15% HCl, 3 BPM, 2800 psi

Inj. Pkr @ 4-6450'

Drinkard Perfs:
(Proposed)
6538 - 6690' (estimated)
70', 280 shots (estimated)

PBTD: 6,750.0

TD: 6,765.0