

Submit 1 Copy To Appropriate District

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District I – (575) 393-6161

1625 N. French Dr., Hobbs, NM 88240

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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

WELL API NO.
30-025-35468

5. Indicate Type of Lease

STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

Northeast Drinkard Unit (NEDU) / 22503

8. Well Number 140

9. OGRID Number
873

10. Pool name or Wildcat
Eunice; B-T-D, North (22900)

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

4. Well Location

Unit Letter D / Lot 4 : 330 feet from the North line and 160 feet from the West line

Section 2 Township 21S Range 37E NMPM County Lea

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3505' GL

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☒ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

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 add pay, acidize and frac this well, per the attached procedure. WBD's also included.

Spud Date:

4/23/2001

Rig Release Date:

5/4/2001

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 7/5/2016

Type or print name Reesa Fisher

E-mail address: Reesa.Fisher@apachecorp.com

PHONE: (432) 818-1062

For State Use Only

APPROVED BY:

Mary Brown

TITLE

Dist Supervisor

DATE

7/14/2016

Conditions of Approval (if any):

NEDU 140 (API: 30-025-35468)

Summary: Add pay and frac Drinkard, acid stimulate Blinebry, Tubb.

- Day 1/2/3:** MIRU. POOH w/ rods and pump. NU hydraulic BOP. POOH w/ 2 7/8" tubing. PU and RIH w/ 2-7/8" L-80 work string, bit, and drill collars to previously tagged fill at @ 6,770'. Clean out well to PBTD of 6,913'. Rig up Foam N2 unit as required.
- POOH and LD 2-7/8" work string, bit, and drill collars.
- Day 4:** RU WL. RIH w/WL and perforate the Drinkard according to the attached sheet w/ 3-1/8" SDP/TAG charges @ 1 SPF, 180 degree phasing (total 33 feet, 33 shots), POOH and RD WL.
- PU and RIH w/treating packer and RBP on 3-1/2" L-80 work string while pressure testing to 7,500 psig. Set RBP at +/- 6,850'. Spot acid across perforations. PUH and set packer @ +/-6,680'.
- Day 5:** MIRU frac equipment. Acidize perforations w/3,000 gals 15% HCl and rock salt @ +/-10 BPM. Release packer and wash salt. PUH and re-set packer @ +/-6,680'
- Frac w/120,000 lbs 20/40 proppant down 3-1/2" work string @ 35 – 40 BPM (pressure permitting, max pressure is 7,500 psi) in 25# XL gel as per frac program.
- SWI until pressure bleeds off.
- Day 6:** Release packer and wash sand to above RBP.
- Retrieve RBP and PUH to 6,640'. Set RBP at +/- 6,640'. Set packer at +/- 6,350'. Acidize the Tubb formation down 3-1/2" work string w/3,000 gal of 15% HCl acid w/additives and rock salt @ +/- 10 BPM (max pressure = 7,000 psia). Release packer. Wash out salt.
- Retrieve RBP and PUH to 5,910'. Set RBP at +/- 5,910'. Set packer at +/- 5,600. Acidize the Blinebry formation down 3-1/2" work string w/3,000 gal of 15% HCl acid w/additives and rock salt @ +/- 10 BPM (max pressure = 7,000 psia). Release packer. Wash out salt.
- Retrieve RBP. POOH w/ 3-1/2" work string, packer, and RBP. LD 2-7/8" work string.
- Day 7:** PU and RIH w/ 2-7/8" production tubing to +/- 6,850'. Transfer C-640-365-168 from NEDU 831 to site. Install 50 HP motor.
- Day 8:** RIH w/ 1-3/4" pump and upgraded rod string. Place well on production. Place well in test. RDMO.

Proposed Perforations

NEDU 140 Proposed Perforations						
Guns: 3-1/8" slick guns with SDP/TAG Charges (or similar)						
Stage	Zone	Top	Bottom	Feet	SPF	Shots
1	Drinkard	6733	6737	5	1	5
1	Drinkard	6742	6744	3	1	3
1	Drinkard	6757	6760	4	1	4
1	Drinkard	6768	6770	3	1	3
1	Drinkard	6785	6787	3	1	3
1	Drinkard	6799	6800	2	1	2
1	Drinkard	6815	6823	9	1	9
1	Drinkard	6828	6831	4	1	4
Total				33		33

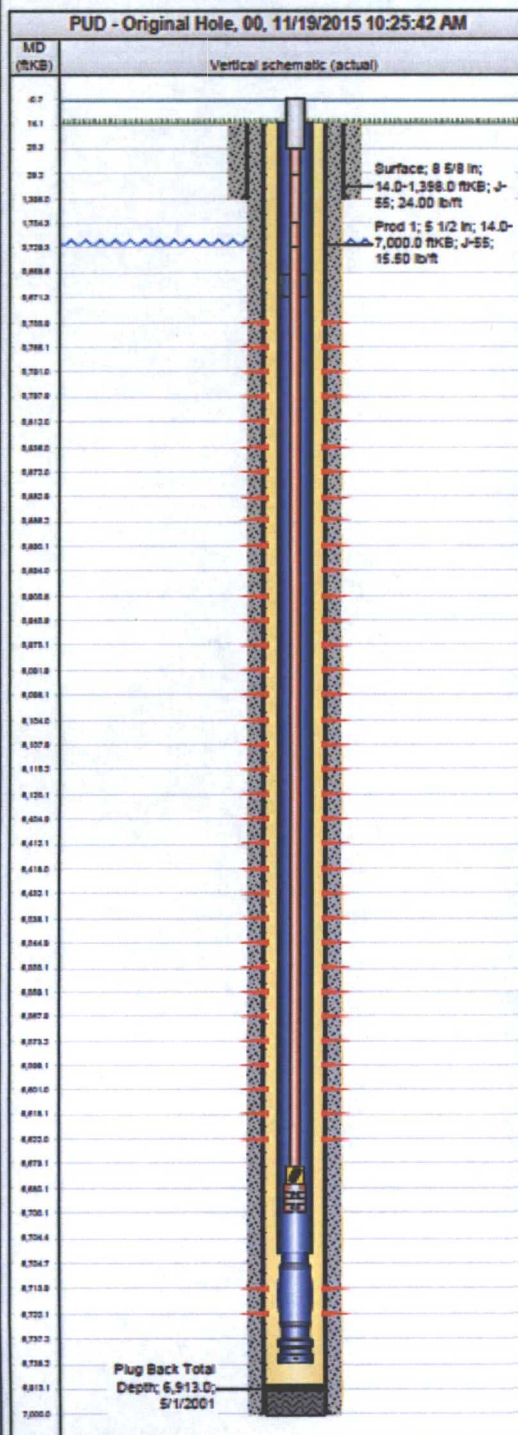


Downhole Well Profile

Well Name: NEDU 140

Reference Datum: KB

API/OWN 3002535468	Surface Legal Location 330' PML, 190' PML, Unit 2, Sec 2, T-2-15	Field Name EUNICE (NORTH) BTD	License #	State/Province NEW MEXICO	Well Purpose PUD
Spud Date 4/23/2001 00:00	Original Drilling Rig Release	Original KB Elevation (ft) 3,505.0	KB-Ground Distance (ft) 14.0	Ground Elevation (ft) 3,491.0	Casing Flange Elevation (ft)
PUD (All) (ft/B) Original Hole - 6,913			Total Depth All (TVD) (ft/B)		



Casing Strings						
Csg Des	OD (in)	Wt/Len (lb/ft)	Grade	Set Depth (ft/B)		
Surface	8 5/8	24.00	J-55	1,398.0		
Prod 1	5 1/2	15.50	J-55	7,000.0		
Perforations						
Date	Type	Top (ft/B)	Bot (ft/B)	Prop?	Shot Dens (shots/ft)	Entered Shot Total
5/19/2001	Blinebry	5,756	5,766	No	4.0	44
5/19/2001	Blinebry	5,791	5,798	No	4.0	32
5/19/2001	Blinebry	5,812	5,836	No	4.0	104
5/19/2001	Blinebry	5,872	5,883	No	4.0	48
5/19/2001	Blinebry	5,886	5,890	No	4.0	20
5/19/2001	Blinebry	5,894	5,906	No	4.0	54
5/19/2001	Blinebry	5,946	5,975	No	4.0	120
5/19/2001	Blinebry	6,082	6,098	No	4.0	28
5/19/2001	Blinebry	6,104	6,108	No	4.0	20
5/19/2001	Blinebry	6,115	6,120	No	4.0	24
5/15/2001	Tubb	6,405	6,412	No	4.0	32
5/15/2001	Tubb	6,418	6,432	No	4.0	60
5/15/2001	Tubb	6,538	6,545	No	4.0	32
5/15/2001	Tubb	6,555	6,559	No	4.0	20
5/15/2001	Tubb	6,568	6,573	No	4.0	24
5/15/2001	Tubb	6,599	6,601	No	4.0	12
5/15/2001	Drinkard	6,618	6,622	No	4.0	20
5/15/2001	Drnkard	6,714	6,722	No	4.0	36
Tubing Strings						
Tubing Description		Run Date	String Length (ft)	Set Depth (ft/B)		
Tubing - Production		9/27/2013	6,724.16	6,738.2		
Item Des	Jts	Make	Model	OD (in)	Wt (lb/ft)	Grade Len (ft)
Tubing			T&C Upset	2 7/8	6.50	J-55 5,654.61
Anchor/catcher				2 7/8		2.70
Tubing			T&C Upset	2 7/8	6.50	J-55 1,033.25
Blast Joint				2 7/8		32.50
Seat Nipple				2 7/8		1.10
Rod Strings						
Rod Description		Run Date	String Length (ft)	Set Depth (ft/B)		
Rod		9/27/2013	6,700.80	6,700.0		
Item Des	Jts	Make	Model	OD (in)	Wt (lb/ft)	Grade Len (ft)
Polished Rod		Norris	Stainless Steel	1 1/2		26.00
Sucker Rod		Norris	Grade 40	1	2.90	KD 4.00
Sucker Rod		Norris	Grade 40	1	2.90	KD 1,725.00
Sucker Rod		Norris	Grade 40	7/8	2.22	KD 1,975.00
Sucker Rod		Norris	Grade 40	3/4	1.63	KD 2,950.00
No Tap Tool				1 1/2		0.80
Rod Pump				2		20.00

Proposed Wellbore Diagram



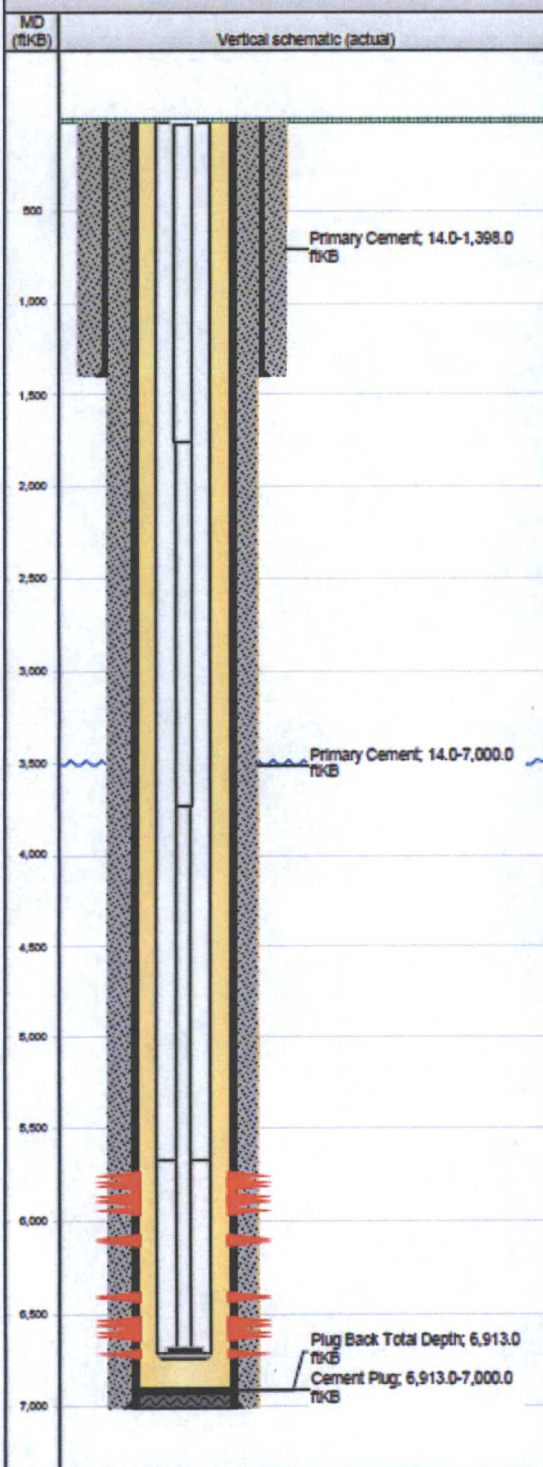
Downhole Well Profile

Well Name: NEDU 140

Reference Datum: KB

API/UN/	Surface Legal Location	Field Name	License #	State/Province	Well Purpose
3002535468	3307 PHE, 1607 PWT, Unit D, Sec 2, T-215	EUNICE (NORTH) BTD		NEW MEXICO	PUD
Spud Date	Original Drilling Rig Release	Original KB Elevation (ft)	Ground Elevation (ft)	KB-Ground Distance (ft)	Casing Flange Elevation (ft)
4/23/2001 00:00		3,505.0	3,491.0	14.0	
PSTD (AS) (ftKB)			Total Depth All (TVD) (ftKB)		
Original Hole - 6,913					

PUD - NORTHEAST DRINKARD UNIT 140 - Original Hole, 6/29/2016 2:05...



Casing Strings								
Cog Des	OD (in)		Wt/Len (lb/ft)		Grade		Set Depth (ftKB)	
Surface	8 5/8		24.00		J-55		1,398.0	
Prod 1	5 1/2		15.50		J-55		7,000.0	
Tubing Strings								
Tubing Description		Run Date		String Length (ft)		Set Depth (ftKB)		
Tubing				6,874.16		6,850.0		
Item Des	Jts	Make	Model	OD (in)	Wt (lb/ft)	Grade	Len (ft)	
COPY Tubing			T&C Upset	2 7/8	6.50	J-55	5,654.61	
COPY Anchor/catcher				2 7/8			2.70	
COPY Tubing			T&C Upset	2 7/8	6.50	J-55	1,183.25	
COPY Blast Joint				2 7/8			32.50	
COPY Seat Nipple				2 7/8			1.10	
Tubing Description		Run Date		String Length (ft)		Set Depth (ftKB)		
Tubing - Production		9/27/2013		6,724.16		6,738.2		
Item Des	Jts	Make	Model	OD (in)	Wt (lb/ft)	Grade	Len (ft)	
Tubing			T&C Upset	2 7/8	6.50	J-55	5,654.61	
Anchor/catcher				2 7/8			2.70	
Tubing			T&C Upset	2 7/8	6.50	J-55	1,033.25	
Blast Joint				2 7/8			32.50	
Seat Nipple				2 7/8			1.10	
Rod Strings								
Rod Description		Run Date		String Length (ft)		Set Depth (ftKB)		
Rod				6,850.8		6,850.0		
Item Des	Jts	Make	Model	OD (in)	Wt (lb/ft)	Grade	Len (ft)	
COPY Polished Rod		Norris	Stainless Steel	1 1/2			26.00	
COPY Sucker Rod		Norris	Grade 40	1	2.90	KD	4.00	
COPY Sucker Rod		Norris	Grade 40	1	2.90	KD	1,875.00	
COPY Sucker Rod		Norris	Grade 40	7/8	2.22	KD	1,975.00	
COPY Sucker Rod		Norris	Grade 40	3/4	1.63	KD	2,950.00	
COPY No Tap Tool				1 1/2			0.80	
COPY Rod Pump				2			20.00	
Rod Description		Run Date		String Length (ft)		Set Depth (ftKB)		
Rod		9/27/2013		6,700.8		6,700.0		
Item Des	Jts	Make	Model	OD (in)	Wt (lb/ft)	Grade	Len (ft)	
Polished Rod		Norris	Stainless Steel	1 1/2			26.00	
Sucker Rod		Norris	Grade 40	1	2.90	KD	4.00	
Sucker Rod		Norris	Grade 40	1	2.90	KD	1,725.00	
Sucker Rod		Norris	Grade 40	7/8	2.22	KD	1,975.00	
Sucker Rod		Norris	Grade 40	3/4	1.63	KD	2,950.00	
No Tap Tool				1 1/2			0.80	
Rod Pump				2			20.00	
Other In Hole								
Description			OD (in)	Top (ftKB)		Run Date		
Perforations								
Date	Type	Top (ftKB)	Btm (ftKB)	Prop?	Shot Dens (shots/ft)	Entered Shot Total		
5/19/2001	Blinebry	5,756	5,766	No	4.0	44		
5/19/2001	Blinebry	5,791	5,798	No	4.0	32		



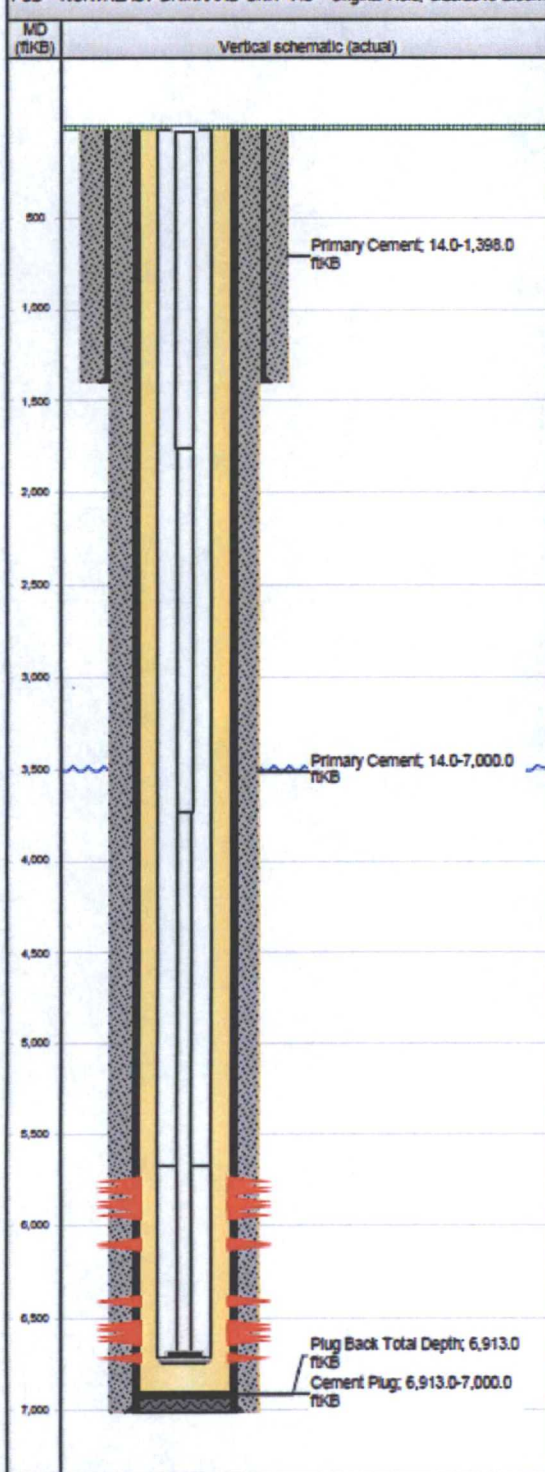
Downhole Well Profile

Well Name: NEDU 140

Reference Datum: KB

API/UNI 3002535468	Surface Legal Location 330 FNL, 160 FNL, Unit O, Sec 2, T-21S	Field Name EUNICE (NORTH) BTD	License #	State/Province NEW MEXICO	Well Purpose PUD
Spud Date 4/23/2001 00:00	Original Drilling Rig Release	Original KB Elevation (ft) 3,505.0	Ground Elevation (ft) 3,401.0	KB-Ground Distance (ft) 14.0	Casing Flange Elevation (ft)
FBTD (AS) (ftKB) Original Hole - 6,913			Total Depth All (TVD) (ftKB)		

PUD - NORTHEAST DRINKARD UNIT 140 - Original Hole, 6/29/2016 2:05:...



Perforations

Date	Type	Top (ftKB)	Btm (ftKB)	Prop?	Shot Dens (shots/ft)	Entered Shot Total
5/19/2001	Blindbry	5,812	5,836	No	4.0	104
5/19/2001	Blindbry	5,872	5,883	No	4.0	48
5/19/2001	Blindbry	5,888	5,890	No	4.0	20
5/19/2001	Blindbry	5,894	5,906	No	4.0	54
5/19/2001	Blindbry	5,946	5,975	No	4.0	120
5/19/2001	Blindbry	6,092	6,098	No	4.0	28
5/19/2001	Blindbry	6,104	6,108	No	4.0	20
5/19/2001	Blindbry	6,115	6,120	No	4.0	24
5/15/2001	Tubb	6,405	6,412	No	4.0	32
5/15/2001	Tubb	6,418	6,432	No	4.0	60
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5/15/2001	Tubb	6,599	6,601	No	4.0	12
5/15/2001	Drinkard	6,618	6,622	No	4.0	20
5/15/2001	Drinkard	6,714	6,722	No	4.0	36
11/19/2015	Drinkard	6,733	6,737	Yes	1.0	5
11/19/2015	Drinkard	6,742	6,744	Yes	1.0	3
11/19/2015	Drinkard	6,757	6,760	Yes	4.0	4
11/19/2015	Drinkard	6,768	6,770	Yes	1.0	3
11/19/2015	Drinkard	6,785	6,787	Yes	1.0	3
11/19/2015	Drinkard	6,799	6,800	Yes	1.0	2
11/19/2015	Drinkard	6,815	6,823	Yes	1.0	9
11/19/2015	Drinkard	6,828	6,831	Yes	1.0	4

Plug Back Total Depths

Date	Type	Depth (ftKB)	Depth (TVD) (ftKB)
5/1/2001	Cement Plug	6,913	

Comments

Comment