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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

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.)		WELL API NO. 30-025-06752
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other Injection <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 Northeast Drinkard Unit (NEDU) / 22503
4. Well Location Unit Letter <u>K</u> : <u>2080</u> feet from the <u>South</u> line and <u>1650</u> feet from the <u>West</u> line Section <u>22</u> Township <u>21S</u> Range <u>37E</u> NMPM County <u>Lea</u>		8. Well Number <u>902</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3414' 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

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: LOCATE/REPAIR LEAK, ACIDIZE ☐

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 locate and isolate a potential casing leak, clean out the well and acidize the Drinkard, per the attached procedure. We currently have a rig on this location.

Spud Date: 3/24/1950

Rig Release Date: 4/22/1950

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 5/2/2017

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

For State Use Only

Petroleum Engineer

APPROVED BY: [Signature] TITLE _____ DATE 05/02/17
Conditions of Approval (If any): _____

**NEDU 902W: Isolate Mechanical Failure of Casing, Clean Out well, Acidize Drinkard, and Return well to Compliance
(API: 30-025-06752)**

April 25, 2017

Day 1: Test anchors. MIRU. NUBOP. Release on/off tool. POH w/ injection tubing. Test casing to 500 psi.

- If casing holds pressure
 - RIH w/ WS and latch onto packer. POOH.
- If casing doesn't hold pressure
 - RIH w/ WS and latch onto packer. POOH and RIH w/ RBP. Set RBP and test RBP to 500 psi. Begin isolating casing leak
 - Attempt cement squeeze

Day 2: RIH w/ 4-3/4" bit and casing scraper on 2-7/8" work string and clean out well to +/- 6850'. RU Foam N2 Unit as required.

Day 3: Continue cleaning out fill down to +/-6850'.

Day 4: Continue drilling out to +/-6850'

Day 5: POOH and PU 5-1/2" treating packer. RIH w/ 2-7/8" WS and set packer at +/- 6400'. Test tubing

MIRU acid crew. Acidize the Drinkard w/10,000 gals 15% HCl and drop rock salt in 3 equal stages @ +/- 10 BPM. Max pressure at 6500 psi. Set kickouts at 6000 psi. Monitor backside for communication. Release packer. Wash over salt. POOH.

Day 6: PU 5-1/2" hydraulic isolation packer, +/- 500' 2-3/8" J-55 1505 IPC tubing wrapped (or coated) tubing, 5-1/2" AS-1X Packer, on/off tool on workstring and set top packer at +/-5900' (Bottom packer should be +/-6400') Test casing to 500 psi. POOH w/ WS and PU approx. 5900' of 2-3/8" J-55 1505 IPC tubing. Circulate Packer fluid. Latch onto top packer. Test to 500 psi. Drop ball, pressure up tubing to set hydraulic packer, pump out plug. RDMO.

Day 7: Perform MIT test for NM OCD. Place well on injection.



Downhole Well Profile w Cement

Well Name: NEDU 902W

Reference Datum: KB

AP# Surface Loc 3002506752	Surface Layer Location 2080' FSL, 1650' FWL, Unit K, Sec 22, T-21S, R-37E	Field Name Eunice North	State Province New Mexico	Well Purpose Injection
Start Date 3/24/1950 00:00	Original KB Elevation (ft) 3,424.0	Ground Elevation (ft) 3,414.0	KB-Ground Distance (ft) 10.0	
PATO (API/SPR) Original Hole - 7.265		Total Depth Air (ft) (by log)		

Injection - NE DRINKARD UNIT #02 - Original Hole, 4/24/2017 4:37:50 PM		Casing Strings						
MD (ft)	Vertical schematic (actual)	Csg Des	OD (in)	Wall Thk (in)	Grade	Set Depth (ft) KB		
		Surface	13 3/8	32.30	H-40	222.00		
		Inter 1	8 5/8	32.00	H-40	2,918.00		
		Prod 1	5 1/2	15.50	J-55	7,502.00		
		Cement						
ft		String	Description	Top Depth (ft) KB	Bottom Depth (ft) KB	Top Meas Meas Returns at Surface	Set Date	
		Surface	Surface	10.00	222.00	3/25/1950		
		Inter 1	Intermediate	10.00	2,918.00	3/30/1950		
		Prod 1	Production	3,600.00	7,502.00	Estimated	4/24/1950	
		Prod 1	Cement Plug	7,265.00	7,300.00	Tag	9/30/1982	
ft		String	Description	Top Depth (ft) KB	Bottom Depth (ft) KB	Top Meas Meas	Set Date	
		Prod 1	Polymer Squeeze	5,900.00	6,300.00		12/5/2000	
		Perforations						
ft		Date	Type	Top (ft) KB	Bot (ft) KB	Shut-In (days)	Shut-In (days) Total	Open or Closed
ft		11/2/1982	Tubb Sqz'd	5,972	5,972	1.0	1	
		11/2/1982	Tubb Sqz'd	5,977	5,977	1.0	1	
ft		11/2/1982	Tubb Sqz'd	5,979	5,979	1.0	1	
		11/2/1982	Tubb Sqz'd	5,981	5,981	1.0	1	
ft		11/2/1982	Tubb Sqz'd	5,983	5,983	1.0	1	
		11/2/1982	Tubb Sqz'd	5,985	5,985	1.0	1	
ft		11/2/1982	Tubb Sqz'd	5,987	5,987	1.0	1	
		11/2/1982	Tubb Sqz'd	5,990	5,990	1.0	1	
ft		11/2/1982	Tubb Sqz'd	5,995	5,995	1.0	1	
		11/2/1982	Tubb Sqz'd	5,997	5,997	1.0	1	
ft		11/2/1982	Tubb Sqz'd	5,999	5,999	1.0	1	
		11/2/1982	Tubb Sqz'd	6,001	6,001	1.0	1	
ft		11/2/1982	Tubb Sqz'd	6,003	6,003	1.0	1	
		11/2/1982	Tubb Sqz'd	6,005	6,005	1.0	1	
ft		11/2/1982	Tubb Sqz'd	6,007	6,007	1.0	1	
		11/2/1982	Tubb Sqz'd	6,009	6,009	1.0	1	
ft		11/2/1982	Tubb Sqz'd	6,011	6,011	1.0	1	
		11/2/1982	Tubb Sqz'd	6,017	6,017	1.0	1	
ft		11/2/1982	Tubb Sqz'd	6,027	6,027	1.0	1	
		11/2/1982	Tubb Sqz'd	6,031	6,031	1.0	1	
ft		11/2/1982	Tubb Sqz'd	6,033	6,033	1.0	1	
		11/2/1982	Tubb Sqz'd	6,035	6,035	1.0	1	
ft		11/2/1982	Tubb Sqz'd	6,037	6,037	1.0	1	
		11/2/1982	Tubb Sqz'd	6,039	6,039	1.0	1	
ft		11/2/1982	Tubb Sqz'd	6,041	6,041	1.0	1	
		11/2/1982	Tubb Sqz'd	6,049	6,049	1.0	1	
ft		11/2/1982	Tubb Sqz'd	6,051	6,051	1.0	1	
		11/2/1982	Tubb Sqz'd	6,053	6,053	1.0	1	
ft		11/2/1982	Tubb Sqz'd	6,055	6,055	1.0	1	
		11/2/1982	Tubb Sqz'd	6,057	6,057	1.0	1	
ft		11/2/1982	Tubb Sqz'd	6,059	6,059	1.0	1	
		11/2/1982	Tubb Sqz'd	6,061	6,061	1.0	1	



Downhole Well Profile w Cement

Well Name: NEDU 902W

Reference Datum: KB

AP# Service Loc: 3002506752	Surface Legal Loc: 2050' FSL, 1650' FWL, Unit K, Sec 22, T-21S, R-37E	Field Name: Eunice North	State/Prov/As: New Mexico	Well Purpose: Injection
Start Date: 3/24/1990 00:00	Original KB Elevation (ft): 3,424.0	Ground Elevation (ft): 3,414.0	KB-Grade Distance (ft): 10.0	
Final (W) (pvc): Original Hole - 7,265		Total Depth All (ft) (pvc):		

Injection - NE DRUNKARD UNIT #502 - Original Hole, 4/24/2017 4:33:16 PM		Perforations						
MD (ft)	Vertical schematic (actual)	Date	Type	Top (ft)	Bot (ft)	SPD Casing (shots/ft)	Gravel and Total	Open or Closed
		11/2/1982	Tubg Sqzd	6,091	6,091	1.0	1	
		11/2/1982	Tubg Sqzd	6,095	6,095	1.0	1	
		11/2/1982	Tubg Sqzd	6,097	6,097	1.0	1	
		11/2/1982	Tubg Sqzd	6,099	6,099	1.0	1	
		11/2/1982	Tubg Sqzd	6,101	6,101	1.0	1	
		11/2/1982	Tubg Sqzd	6,103	6,103	1.0	1	
		11/2/1982	Tubg Sqzd	6,105	6,105	1.0	1	
		11/2/1982	Tubg Sqzd	6,107	6,107	1.0	1	
		11/2/1982	Tubg Sqzd	6,109	6,109	1.0	1	
		11/2/1982	Tubg Sqzd	6,111	6,111	1.0	1	
		11/2/1982	Tubg Sqzd	6,113	6,113	1.0	1	
		11/2/1982	Tubg Sqzd	6,115	6,115	1.0	1	
		11/2/1982	Tubg Sqzd	6,117	6,117	1.0	1	
		11/2/1982	Tubg Sqzd	6,125	6,125	1.0	1	
		11/2/1982	Tubg Sqzd	6,127	6,127	1.0	1	
		11/2/1982	Tubg Sqzd	6,129	6,129	1.0	1	
		11/2/1982	Tubg Sqzd	6,131	6,131	1.0	1	
		11/2/1982	Tubg Sqzd	6,133	6,133	1.0	1	
		11/2/1982	Tubg Sqzd	6,135	6,135	1.0	1	
		11/2/1982	Tubg Sqzd	6,138	6,138	1.0	1	
		11/2/1982	Tubg Sqzd	6,140	6,140	1.0	1	
		11/2/1982	Tubg Sqzd	6,142	6,142	1.0	1	
		11/2/1982	Tubg Sqzd	6,151	6,151	1.0	1	
		11/2/1982	Tubg Sqzd	6,153	6,153	1.0	1	
		11/2/1982	Tubg Sqzd	6,155	6,155	1.0	1	
		11/2/1982	Tubg Sqzd	6,157	6,157	1.0	1	
		11/2/1982	Tubg Sqzd	6,161	6,161	1.0	1	
		11/2/1982	Tubg Sqzd	6,167	6,167	1.0	1	
		11/2/1982	Tubg Sqzd	6,169	6,169	1.0	1	
		11/2/1982	Tubg Sqzd	6,183	6,183	1.0	1	
		11/2/1982	Tubg Sqzd	6,185	6,185	1.0	1	
		11/2/1982	Tubg Sqzd	6,187	6,187	1.0	1	
		11/2/1982	Tubg Sqzd	6,189	6,189	1.0	1	
		11/2/1982	Tubg Sqzd	6,191	6,191	1.0	1	
		11/2/1982	Tubg Sqzd	6,193	6,193	1.0	1	
		11/2/1982	Tubg Sqzd	6,196	6,196	1.0	1	
		11/2/1982	Tubg Sqzd	6,197	6,197	1.0	1	
		11/2/1982	Tubg Sqzd	6,201	6,201	1.0	1	
		11/2/1982	Tubg Sqzd	6,203	6,203	1.0	1	
		11/2/1982	Tubg Sqzd	6,212	6,212	1.0	1	
		11/2/1982	Tubg Sqzd	6,213	6,213	1.0	1	
		11/2/1982	Tubg Sqzd	6,222	6,222	1.0	1	
		11/2/1982	Tubg Sqzd	6,231	6,231	1.0	1	
		11/2/1982	Tubg Sqzd	6,233	6,233	1.0	1	
		11/2/1982	Tubg Sqzd	6,240	6,240	1.0	1	
		11/2/1982	Tubg Sqzd	6,243	6,243	1.0	1	
		11/2/1982	Tubg Sqzd	6,245	6,245	1.0	1	
		3/1/1996	Drnkard	6,476	6,486	1.0	11	
		3/1/1996	Drnkard	6,489	6,498	1.0	10	
		3/1/1996	Drnkard	6,521	6,523	1.0	3	
		3/1/1996	Drnkard	6,530	6,534	1.0	5	
		3/1/1996	Drnkard	6,539	6,544	1.0	6	



Downhole Well Profile w Cement

Well Name: NEDU 902W

Reference Datum: KB

AP# Surface Loc	Surface Leg# Loc#	Field Name	State/Prng	Well Purpose
3002506752	2080' FSL, 1650' FWL, Unit K, Sec 22, T-21S, R-37E	Eunice North	New Mexico	Injection
Last Date	Original KB Elevation (ft)	Ground Elevation (ft)	KB-Ground Distance (ft)	
3/24/1950 00:00	3,424.0	3,414.0	10.0	
Plugged (ft) (ft)		Total Depth All (ft) (ft)		
Original Hole - 7,265				

Injection - NE DRINKARD UNIT #902 - Original Hole, 4/24/2017 4:33:30 PM		Perforations						
MD (ft)	Vertical schematic (section)	Date	Type	Top (ft)	Bot (ft)	Shot (ft)	Grout (ft)	Open or Closed
		3/1/1950	Drinkard	6,570	6,596	1.0	27	
		3/1/1950	Drinkard	6,604	6,620	1.0	17	
		3/1/1950	Drinkard	6,642	6,648	1.0	7	
		3/1/1950	Drinkard	6,656	6,666	1.0	11	
		4/27/1950	McKee	7,356	7,369	4.0	56	
		4/27/1950	McKee	7,372	7,365	4.0	56	
		4/27/1950	McKee	7,399	7,425	4.0	104	
		4/27/1950	McKee	7,429	7,435	4.0	24	
		4/27/1950	McKee	7,449	7,455	4.0	24	
		4/27/1950	McKee	7,461	7,482	4.0	84	
		4/27/1950	McKee	7,493	7,499	4.0	24	
Tubing Strings								
Tubing Description		Run Date		String Length (ft)		Set Depth (ft)		
		Run Date	Job	Make	Model	CO (ft)	WT (lb/ft)	Grade
Red Strings								
Red String Description		Run Date		String Length (ft)		Set Depth (ft)		
		Run Date	Job	Make	Model	CO (ft)	WT (lb/ft)	Grade
Other in Hole								
Description		CO (ft)		Top (ft)		Run Date		
CIBP		5 1/2		7,300		9/30/1982		
Plug Back Total Depths								
Type		Depth (ft)		Depth (ft) (ft)				
Cement Plug		7,265						
Comments								
1950: D/C in McKee								
9/30/1982: Abandon McKee, set CIBP @ 7300' w/ 35' cmt plug								
11/2/82: Perf Tubb, Az w/ 8000 gals 15% NE								
1986-1989: S/I								
2/21/91: TA								
3/1/96: CTI, Perf Drinkard, Az w/ 6500 gals 20% HCl								
2000: Pumped 942 barrels Marisat polymer into Tubb								
2003: Failed MIT, no work noted.								
2007: Failed MIT, Replaced seals in dual lined tubing, Pkr set @ 5873								
2017: Failed MIT								