

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**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 OGD

MAY 04 2017

SUBMIT IN TRIPLICATE - Other instructions on page 2

RECEIVED

1. Type of Well ☐ Oil Well ☐ Gas Well ☒ Other: INJECTION		5. Lease Serial No. NMNM2512
2. Name of Operator APACHE CORPORATION		6. If Indian, Allottee or Tribe Name
3a. Address 303 VETERANS AIRPARK LANE SUITE 1000 MIDLAND, TX 79705		7. If Unit or CA/Agreement, Name and/or No. NMNM72602X
3b. Phone No. (include area code) Ph: 432-818-1062 Ext: 1062		8. Well Name and No. NORTHEAST DRINKARD UNIT 410 ✓
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 10 T21S R37E SENE 1980FNL 660FEL ✓		9. API Well No. 30-025-06453
		10. Field and Pool or Exploratory Area EUNICE; B-T-D, NORTH
		11. County or Parish, State LEA COUNTY 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
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☒ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ 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 recompleat 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 recompleat 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.

Apache would like to locate and isolate a potential casing leak, CO the well, add pay in the Drinkard and acidize, per the attached procedure.

Converted to injection 12/10/2001; WFX-774

14. I hereby certify that the foregoing is true and correct. Electronic Submission #374558 verified by the BLM Well Information System For APACHE CORPORATION, sent to the Hobbs	
Name (Printed/Typed) REESA FISHER	Title SR STAFF REGULATORY ANALYST
Signature (Electronic Submission)	Date 05/02/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date _____
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 Accepted for Record Only

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)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

NEDU 410W: Isolate Mechanical Failure of Casing. Clean Out Well, Add Pay in Drinkard, Acidize, and Return Well to Compliance

(API: 30-025-06453)

April 25, 2017

Day 1: Test Anchors. MIRU. NUBOP. Release on/off tool. POOH 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 tag fill at 5666' (Tagged 5/25/2015). Clean out fill to PBTD at +/-6676'. RU Foam N2 Unit as required.

Day 3: Continue cleaning out fill down to +/-6676'.

Day 4: Continue drilling out to +/-6676'. POOH.

Day 5: MIRU Wireline. RIH and correlate depths using Gamma Ray/Neutron Log dated 8/15/1951.

Perforate the Drinkard formation using 3-1/8" TAG's loaded with SDP charges (1 SPF, 120° phasing)

RIH w/ 5-1/2" treating packer on 2-7/8" WS and set packer at +/- 6430'. Test tubing in hole to 7000 psi.

Day 6: 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 7: PU 5-1/2" hydraulic isolation packer, +/- 800' 2-3/8" J-55 1505 IPC tubing wrapped (or coated), 5-1/2" AS-1X Packer, on/off tool on workstring and set top packer at +/-5630' (Bottom packer should be +/- 6430' or between the bottom of the Tubb and top of the Drinkard). Test casing to 500 psi. POOH w/ WS and PU approx. 5630' 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 8: Perform MIT test for NM OCD. Place well on injection.



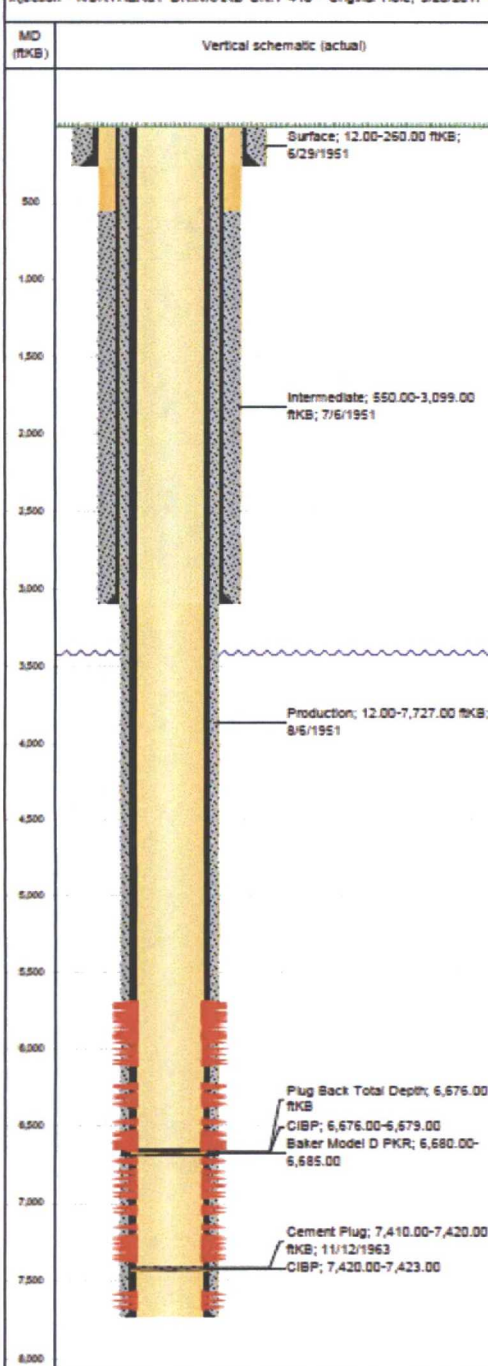
Downhole Well Profile w Cement

Well Name: NEDU 410

Reference Datum: KB

API/Surface Loc 3002506453	Surface Legal Location 1980' FNL, 660' FEL, Unit H, Sec 10, T-21S, R-37E	Field Name Eunice (North) Btd	State/Province New Mexico	Well Purpose Injection
Spud Date 6/29/1951 00:00	Original KB Elevation (ft) 3,427.0	Ground Elevation (ft) 3,415.0	KB-Ground Distance (ft) 12.0	
PBTD (ft) (ftKB) Original Hole - 6,676		Total Depth AJ (TVD) (ftKB)		

Injection - NORTHEAST DRINKARD UNIT 410 - Original Hole, 3/20/2017 1...



Casing Strings

Cas Des	OD (in)	Wt/Len (lb/ft)	Grade	Set Depth (ftKB)
Surface	10 3/4	26.40	J-55	260.00
Inter 1	7 5/8	24.00	J-55	3,099.00
Prod 1	5 1/2	15.50	J-55	7,727.00

Cement

String	Description	Top Depth (ftKB)	Bottom Depth (ftKB)	Top Meas Meth	Start Date
Surface, 260.00ftKB, 10 3/4	Surface	12.00	260.00	Returns at Surface	6/29/1951
String Inter 1, 3,099.00ftKB, 7 5/8	Intermediate	550.00	3,099.00	Temperature Survey	7/6/1951
String Prod 1, 7,727.00ftKB, 5 1/2	Production	12.00	7,727.00	Returns at Surface	8/6/1951
String Prod 1, 7,727.00ftKB, 5 1/2	Cement Plug	7,410.00	7,420.00		11/12/1963

Perforations

Date	Type	Prop?	Top (ftKB)	Bot (ftKB)	Shot Dens (shots/ft)	Entered Shot Total
9/10/1988	Blindbry	No	5,707	5,707	1.0	1
9/10/1988	Blindbry	No	5,709	5,709	1.0	1
9/10/1988	Blindbry	No	5,714	5,714	1.0	1
9/10/1988	Blindbry	No	5,716	5,716	1.0	1
9/10/1988	Blindbry	No	5,723	5,723	1.0	1
9/10/1988	Blindbry	No	5,725	5,725	1.0	1
11/15/1963	Blindbry	No	5,726	5,726	1.0	1
9/10/1988	Blindbry	No	5,727	5,727	1.0	1
9/10/1988	Blindbry	No	5,732	5,732	1.0	1
9/10/1988	Blindbry	No	5,734	5,734	1.0	1
11/15/1963	Blindbry	No	5,737	5,737	1.0	1
11/15/1963	Blindbry	No	5,765	5,765	1.0	1
9/10/1988	Blindbry	No	5,772	5,772	1.0	1
9/10/1988	Blindbry	No	5,778	5,778	1.0	1
11/15/1963	Blindbry	No	5,780	5,780	1.0	1
9/10/1988	Blindbry	No	5,785	5,785	1.0	1
11/15/1963	Blindbry	No	5,790	5,790	1.0	1
9/10/1988	Blindbry	No	5,806	5,806	1.0	1
11/15/1963	Blindbry	No	5,808	5,808	1.0	1
9/10/1988	Blindbry	No	5,810	5,810	1.0	1
11/15/1963	Blindbry	No	5,825	5,825	1.0	1
9/10/1988	Blindbry	No	5,827	5,827	1.0	1
9/10/1988	Blindbry	No	5,829	5,829	1.0	1
11/15/1963	Blindbry	No	5,861	5,861	1.0	1
11/15/1963	Blindbry	No	5,890	5,890	1.0	1
9/10/1988	Blindbry	No	5,907	5,907	1.0	1
9/10/1988	Blindbry	No	5,909	5,909	1.0	1
9/10/1988	Blindbry	No	5,912	5,912	1.0	1
11/15/1963	Blindbry	No	5,915	5,915	1.0	1
9/10/1988	Blindbry	No	5,922	5,922	1.0	1
9/10/1988	Blindbry	No	5,924	5,924	1.0	1
9/10/1988	Blindbry	No	5,926	5,926	1.0	1
11/15/1963	Blindbry	No	5,938	5,938	1.0	1
9/10/1988	Blindbry	No	5,943	5,943	1.0	1
9/10/1988	Blindbry	No	5,968	5,968	1.0	1
9/10/1988	Blindbry	No	6,006	6,006	1.0	1
9/10/1988	Blindbry	No	6,036	6,036	1.0	1



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PETD (ft) (ftKB) Original Hole - 6,676		Total Depth At (TVD) (ftKB)		

Injection - NORTHEAST DRINKARD UNIT 410 - Original Hole, 3/20/2017 1...		Perforations						
MD (ftKB)	Vertical schematic (actual)	Date	Type	Prop?	Top (ftKB)	Bot (ftKB)	Shot Dens (shots/ft)	Entered Shot Total
500 1,000 1,500 2,000 2,500 3,000 3,500 4,000 4,500 5,000 5,500 6,000 6,500 7,000 7,500 8,000		9/10/1988	Blinbry	No	6,078	6,078	1.0	1
		9/10/1988	Blinbry	No	6,085	6,085	1.0	1
		9/10/1988	Blinbry	No	6,102	6,102	1.0	1
		9/10/1988	Blinbry	No	6,104	6,104	1.0	1
		9/10/1988	Tubb	No	6,246	6,246	1.0	1
		9/10/1988	Tubb	No	6,249	6,249	1.0	1
		9/10/1988	Tubb	No	6,252	6,252	1.0	1
		9/10/1988	Tubb	No	6,260	6,260	1.0	1
		9/10/1988	Tubb	No	6,304	6,304	1.0	1
		9/10/1988	Tubb	No	6,308	6,308	1.0	1
		9/10/1988	Tubb	No	6,322	6,322	1.0	1
		9/10/1988	Tubb	No	6,334	6,334	1.0	1
		9/10/1988	Tubb	No	6,366	6,366	1.0	1
		9/10/1988	Tubb	No	6,368	6,368	1.0	1
		9/10/1988	Drinkard	No	6,472	6,472	1.0	1
		9/10/1988	Drinkard	No	6,489	6,489	1.0	1
		9/10/1988	Drinkard	No	6,553	6,553	1.0	1
		9/10/1988	Drinkard	No	6,557	6,557	1.0	1
		9/10/1988	Drinkard	No	6,567	6,567	1.0	1
		9/10/1988	Drinkard	No	6,575	6,575	1.0	1
		9/10/1988	Drinkard	No	6,601	6,601	1.0	1
		9/10/1988	Drinkard	No	6,603	6,603	1.0	1
		9/10/1988	Drinkard	No	6,611	6,611	1.0	1
		9/10/1988	Drinkard	No	6,616	6,616	1.0	1
		9/10/1988	Drinkard	No	6,618	6,618	1.0	1
		9/10/1988	Drinkard	No	6,623	6,623	1.0	1
		9/10/1988	Drinkard	No	6,632	6,632	1.0	1
		9/10/1988	Drinkard	No	6,635	6,635	1.0	1
		9/10/1988	Drinkard	No	6,640	6,640	1.0	1
		9/10/1988	Drinkard	No	6,644	6,644	1.0	1
		9/10/1988	Drinkard	No	6,648	6,648	1.0	1
		9/10/1988	Drinkard	No	6,650	6,650	1.0	1
		11/13/1963	Abo Susp	No	6,721	6,721	1.0	1
		11/13/1963	Abo Susp	No	6,736	6,736	1.0	1
		11/13/1963	Abo Susp	No	6,804	6,804	1.0	1
		11/13/1963	Abo Susp	No	6,845	6,845	1.0	1
		11/13/1963	Abo Susp	No	6,882	6,882	1.0	1
		11/13/1963	Abo Susp	No	6,896	6,896	1.0	1
		11/13/1963	Abo Susp	No	6,930	6,930	1.0	1
		11/13/1963	Abo Susp	No	6,960	6,960	1.0	1
		11/13/1963	Abo Susp	No	7,030	7,030	1.0	1
		11/13/1963	Abo Susp	No	7,060	7,060	1.0	1
		11/13/1963	Abo Susp	No	7,150	7,150	1.0	1
		11/13/1963	Abo Susp	No	7,215	7,215	1.0	1
		11/13/1963	Abo Susp	No	7,240	7,240	1.0	1
		11/13/1963	Abo Susp	No	7,260	7,260	1.0	1
		11/13/1963	Abo Susp	No	7,275	7,275	1.0	1
		11/13/1963	Abo Susp	No	7,300	7,300	1.0	1
		11/13/1963	Abo Susp	No	7,333	7,333	1.0	1
		11/13/1963	Abo Susp	No	7,356	7,356	1.0	1
		11/13/1963	Abo Susp	No	7,366	7,366	1.0	1
		8/16/1951	EBR Susp	No	7,584	7,612	4.0	112
		8/16/1951	EBR Susp	No	7,622	7,656	4.0	136
		8/16/1951	EBR Susp	No	7,666	7,690	4.0	96



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