

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

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. 30-025-06579
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☐ FEE ☒
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 D : 660 feet from the North line and 660 feet from the West line Section 14 Township 21S Range 37E NMPM County Lea		8. Well Number 614
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3431' 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: CTI ☒

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 intends to convert this well to injection, per the attached procedure. We are still evaluating which scenario will be the most operational and cost effective.

We are concurrently submitting an Application for Injection to Santa Fe.

Spud Date:

4/8/1950

Rig Release Date:

5/30/1950

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 12/18/2018

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

12/27/18

Conditions of Approval (if any):

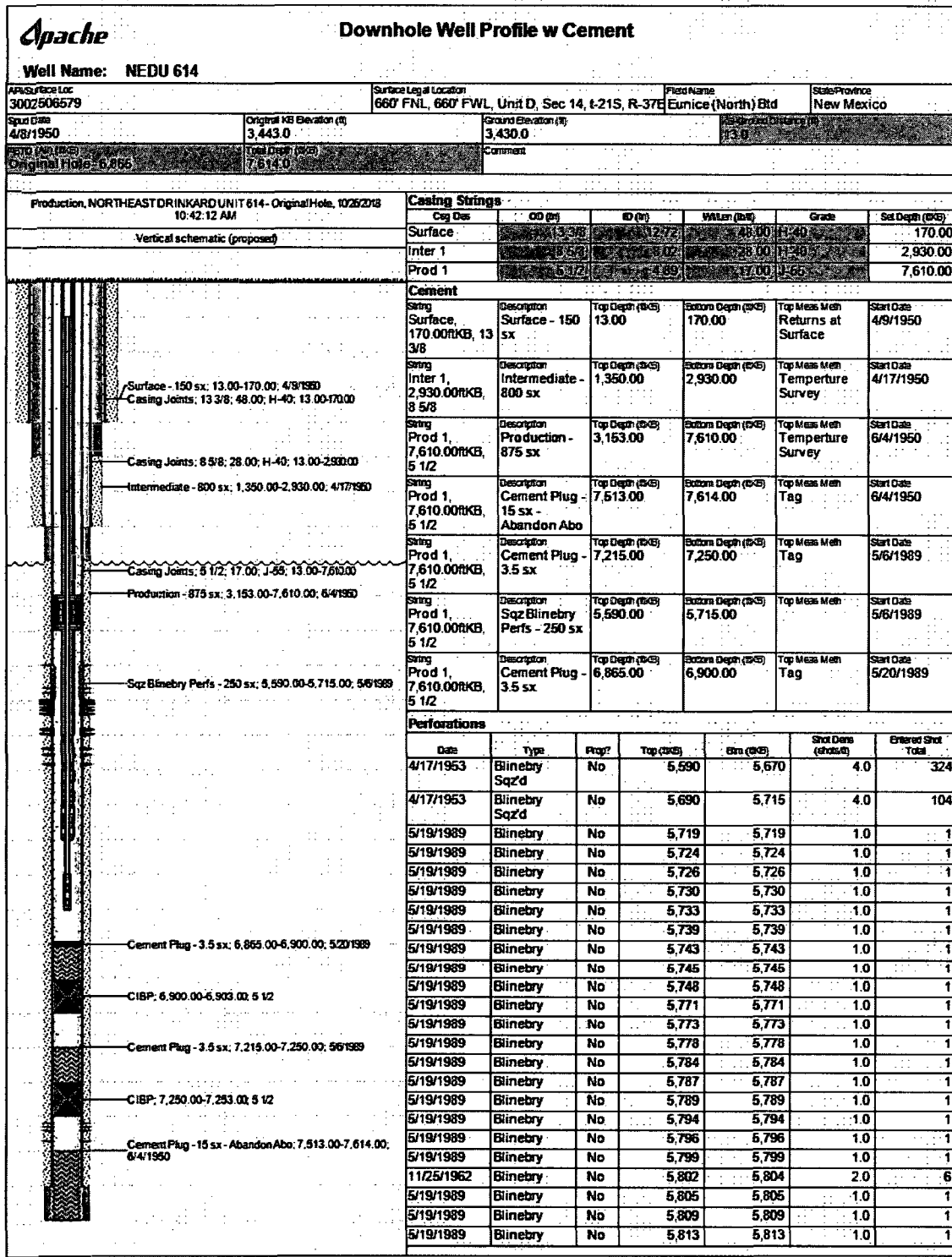
May not inject prior to C-105 approval
Must notify OCD HOBAS prior to MTS

NEDU 614: (API: 30-025-06579)

OBJECTIVE: CONVERT TO DRINKARD INJECTOR

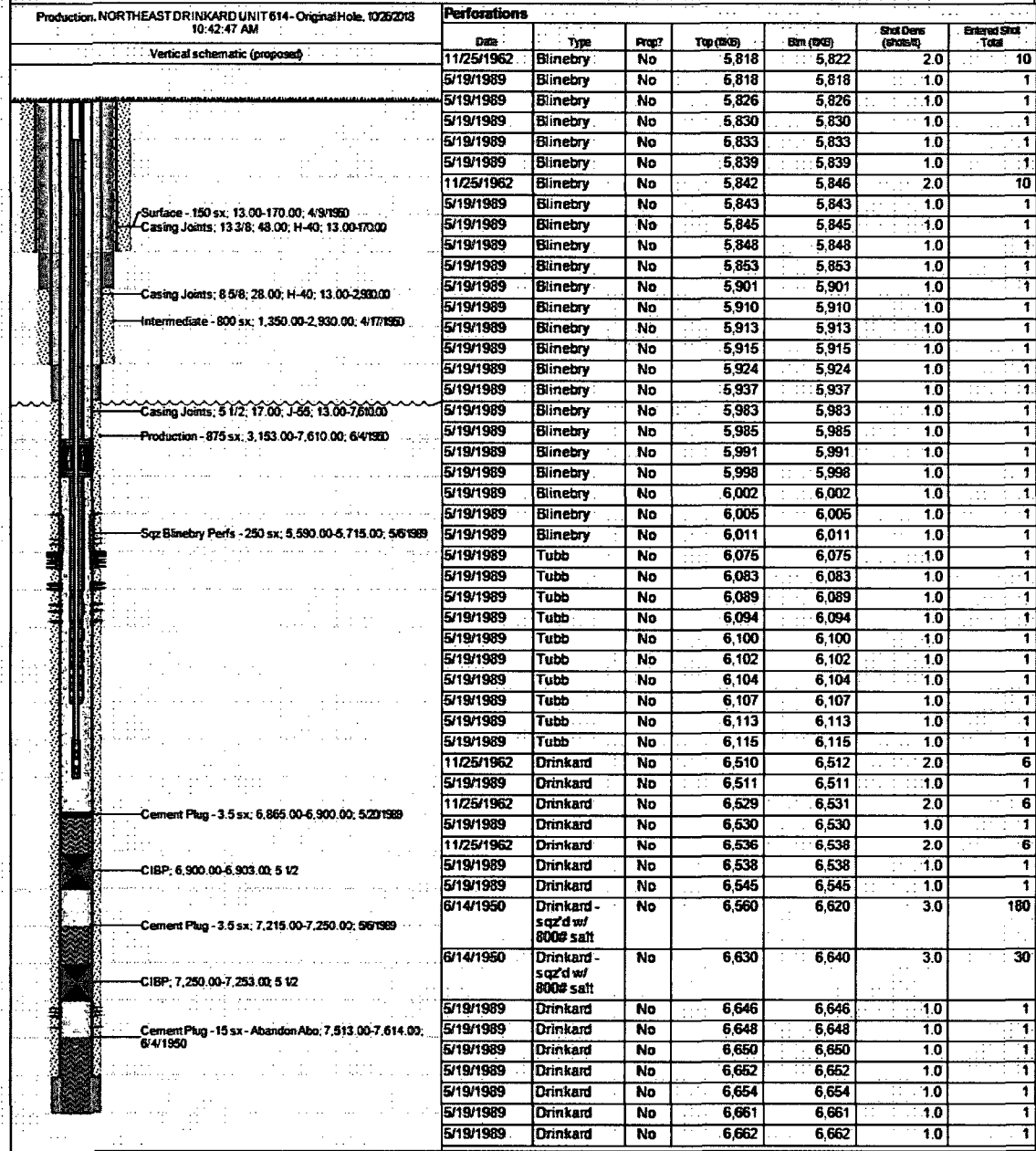
Scenario 1: Cement 4-1/2" FJ liner from Blinebry to TD

1. POOH w rods and 2-3/8" production tubing.
2. PU workstring and RIH w/ bit and clean out well to PBTD (6865') or around 6750'.
3. MIRU cement and casing crew and PU 1500' of 4.5" 11.6# J-55 casing (including float shoe, float collar, landing collar and liner hanger) using 2-7/8" L-80 workstring.
4. RIH and tag TD. Set TOL around 250-300' above top Blinebry perf. Pump spacer followed by 50-100 SX of cement. Flush with fresh water.
5. Release workstring from liner. Reverse circulate to clean hole. POOH.
6. If no cement circulated to surface, PU packer and attempt to squeeze liner top or RIH w/ liner packer and sting into tie back tool. Set liner packer and test casing.
7. PU bit and drill out cement to float collar. Pressure test casing. Continue drilling out cement if needed to perforate. POOH.
8. PU 3-7/8" bit and drill out cement to float collar. Pressure test casing. Continue drilling out cement if needed to perforate. POOH.
9. MIRU wireline. Run CBL from PBTD to surface.
10. PU Compensated Neutron and Gamma logging tools and run logs from PBTD to 5000'.
11. PU wireline guns and perforate Drinkard formation f/6440'—6630' (Depths TBD). POOH.
12. PU 4-1/2" treating packer w/ ~40 jts of 2-3/8" followed by remaining 2-7/8" workstring to surface. Set packer ~100' above top perf and load backside.
13. Acid stimulate Drinkard formation w/ 5000 gals 15% HCl using 1.1 SG ball sealers for diversion. Release packer and knock off balls. POOH.
14. RIH w 4-1/2" injection packer and ~6500' of 2-3/8" IPC tubing. Set packer within 20' of top perf.
15. Circulate packer fluid and test backside to 500 psi.
16. Perform MIT for NMOCD.



Downhole Well Profile w Cement

Well Name: NEDU 614

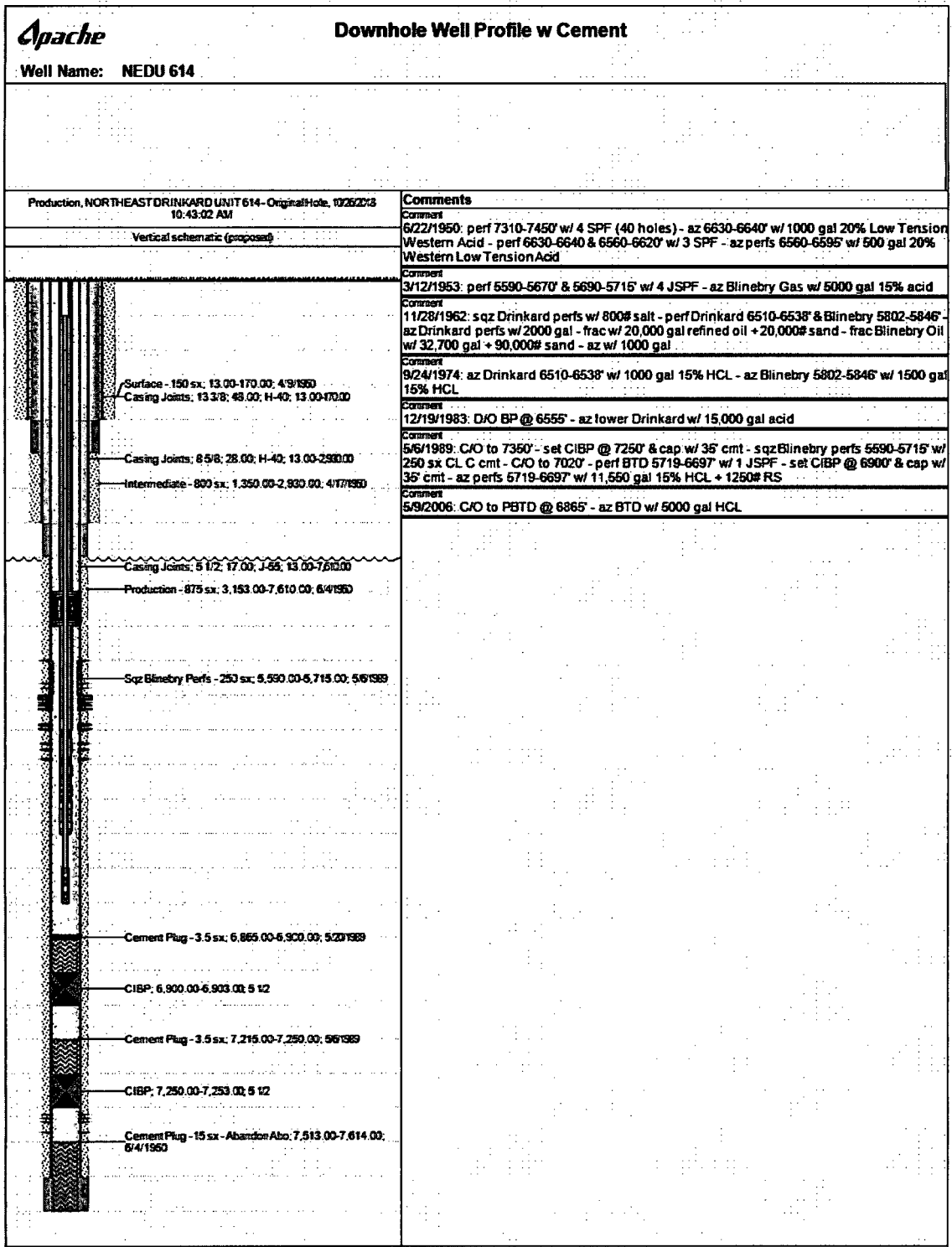




Downhole Well Profile w Cement

Well Name: NEDU 614

Production, NORTHEAST DRINKARD UNIT 614 - Original Hole, 10/26/2013 10:42:54 AM		Vertical schematic (proposed)						
Surface - 150 sx; 13.00-170.00; 4/9/1989 Casing Joints: 13 3/8; 48.00; H-40; 13.00-170.00 Casing Joints: 6 5/8; 28.00; H-40; 13.00-230.00 Intermediate - 800 sx; 1,350.00-2,930.00; 4/17/1989 Casing Joints: 5 1/2; 17.00; J-85; 13.00-7,610.00 Production - 875 sx; 3,153.00-7,610.00; 6/4/1989 Sqz Blinetry Perfs - 250 sx; 5,590.00-5,715.00; 5/6/1989 Cement Plug - 3.5 sx; 6,855.00-6,900.00; 5/20/1989 CIBP; 6,900.00-6,903.00; 5 1/2 Cement Plug - 3.5 sx; 7,215.00-7,250.00; 5/6/1989 CIBP; 7,250.00-7,253.00; 5 1/2 Cement Plug - 15 sx - Abandon Abo; 7,513.00-7,614.00; 6/4/1989		Perforations						
		Date	Type	Prop?	Top (ft)	Bot (ft)	Shot Dens (shots/ft)	Entered Shot Total
		5/19/1989	Drinkard	No	6,683	6,683	1.0	1
		5/19/1989	Drinkard	No	6,684	6,684	1.0	1
		5/19/1989	Drinkard	No	6,688	6,688	1.0	1
		5/19/1989	Drinkard	No	6,689	6,689	1.0	1
		5/19/1989	Drinkard	No	6,696	6,696	1.0	1
		5/19/1989	Drinkard	No	6,697	6,697	1.0	1
		6/6/1950	Abo Suspended	No	7,310	7,320	4.0	44
		6/6/1950	Abo Suspended	No	7,330	7,365	4.0	144
6/6/1950	Abo Suspended	No	7,364	7,394	4.0	220		
6/6/1950	Abo Suspended	No	7,440	7,450	4.0	44		
Tubing Strings								
Tubing Description	Run Date	String Length (ft)	Set Depth (ft)					
Tubing	12/24/2008	6,712.49	6,725.5	Item Desc	JIS	Make	Model	
				8RT EUE	2 3/8	4.70	J-55	
Tubing Anchor	1		5 1/2					
Tubing	36		8RT EUE	2 3/8	4.70	J-55	1,091.14	
Blast Joint	1		DON NAN	2 3/8			29.00	
Seat Nipple	1		8RT API	2 3/8			0.90	
Sand Screen	1			2 3/8			23.80	
Rod Strings								
Rod Description	Run Date	String Length (ft)	Set Depth (ft)					
Rod	12/25/2008	6,762.0	6,765.0	Item Desc	JIS	Make	Model	
				Sprayloy	1 1/2	6.10	PRS	
Polished Rod	1							
Rod Sub	1		7/8				D PLAIN	
Rod Sub	1		7/8				D PLAIN	
Rod	88		7/8				D PLAIN	
Rod	179		3/4				D PLAIN	
Rod Insert Pump	1		1 1/4				RHB M W/ RHR	
Other in Hole								
Description	OD (in)	Top (ft)	Run Date					
CIBP	5 1/2	7,250	5/6/1989					
Description	OD (in)	Top (ft)	Run Date					
CIBP	5 1/2	6,900	5/20/1989					
Plug Back Total Depths								
Date	Type	Depth (ft)	Set Depth (ft)					
5/20/1989	Cement Plug	6,865						
Failed Component Links & Details								
Category	Description	Failure Depth (ft)	Comp Desc	Failure Date				



FJ Liner Proposed WBD (REDACTED)

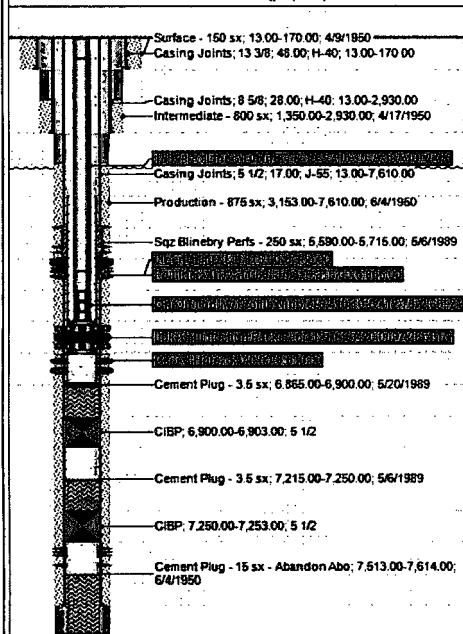
Apache		Proposed		
Well Name: NEDU 614				
Log # Well Name: NORTHEAST DRINKARD UNIT 614		Common Well Name: NEDU 614		
Ground Elevation (ft): 3,430.0		APV Surface Loc: 3002506579		
Original KB Elevation (ft): 3,443.0	Surface Legal Location: 6607 FNL, 6607 FWL, Unit D, Sec 14, 1-21S, R-37E	SPD (AP) (ft): 6,885	Original Hole: 6,885	
Production, NORTHEAST DRINKARD UNIT 614 - Original Hole, 12/10/2018 9:51:39 AM				
Vertical schematic (proposed)				
Surface - 150 sx; 13.00-170.00; 4/9/1950 Casing Joints; 13 3/8; 48.00; H-40; 13.00-170.00 Casing Joints; 8 5/8; 28.00; H-40; 13.00-2,930.00 Intermediate - 800 sx; 1,350.00-2,930.00; 4/17/1950 Casing Joints; 5 1/2; 17.00; J-55; 13.00-7,610.00 Production - 875 sx; 3,153.00-7,610.00; 6/4/1950 Sqz Blinbery Parts - 250 sx; 5,580.00-5,715.00; 5/6/1989 Cement Plug - 3.5 sx; 6,865.00-6,900.00; 5/20/1989 CISP; 6,900.00-6,903.00; 5 1/2 Cement Plug - 3.5 sx; 7,215.00-7,250.00; 5/6/1989 CISP; 7,250.00-7,253.00; 5 1/2 Cement Plug - 15 sx - Abandon Abo; 7,513.00-7,614.00; 6/4/1950				
Current Wellbore Sections				
Section Desc	Size (in)	Act Top (ft)	Act Bot (ft)	Start Date
Surface	17 1/2	13.0	170.0	4/8/1950
Inter 1	12 1/4	170.0	2,930.0	4/10/1950
Prod 1	7 7/8	2,930.0	7,614.0	4/18/1950
Casing Strings				
Casing Description	String Nominal OD (in)	Weight Length (ft)	String Grade	Set Depth (ft)
Surface	13.50	43.00	N-40	170.00
Casing Description	String Nominal OD (in)	Weight Length (ft)	String Grade	Set Depth (ft)
Inter 1	8.625	28.00	H-40	2,930.00
Casing Description	String Nominal OD (in)	Weight Length (ft)	String Grade	Set Depth (ft)
Prod 1	6.625	17.00	J-55	7,610.00
Proposed Casing Strings				
Casing Description	String Nominal OD (in)	Weight Length (ft)	String Grade	Set Depth (ft)
Prod Lnr 1	4.12	11.00	J-55	6,865.00
Existing Cement				
Size	Desc	Top (ft)	Bot (ft)	Top Measurement
Surface, 170.00ftKB, 13 3/8	Primary Cement	13.00	170.00	Returns at Surface
Inter 1, 2,930.00ftKB, 8 5/8	Primary Cement	1,350.00	2,930.00	Temperature Survey
Prod 1, 7,610.00ftKB, 5 1/2	Primary Cement	3,153.00	7,610.00	Temperature Survey
Prod 1, 7,610.00ftKB, 5 1/2	Cement Plug	7,215.00	7,250.00	Tag
Prod 1, 7,610.00ftKB, 5 1/2	Cement Plug	7,513.00	7,614.00	Tag
Prod 1, 7,610.00ftKB, 5 1/2	Cement Squeeze	5,580.00	5,715.00	
Prod 1, 7,610.00ftKB, 5 1/2	Cement Plug	6,865.00	6,900.00	Tag
Proposed Cement				
Size	Description	Top Depth (ft)	Bottom Depth (ft)	Top Measurement Method
Prod Lnr 1, 6,865.00ftKB, <szodnommaxcat>	Primary Liner Cement	5,315.00	6,865.00	Returns at Surface
Proposed Tubing String				
Tubing Description	Length (ft)	Set Depth (ft)		
Tubing - Injection		6,420.0		
Item Description	Length (ft)	OD Nominal (in)	Joints	
1506 IPC Lined Tubing	6,397.10	2 3/8	198	
Item Description	Length (ft)	OD Nominal (in)	Joints	
On/Off Tool w/ Profile Nipple	2.65	2 3/8	1	
Item Description	Length (ft)	OD Nominal (in)	Joints	
Lok-Set Injection Packer	7.25	4 1/2	1	

Well Name: NEDU 614

Proposed

Production, NORTHEAST DRINKARD UNIT 614 - Original Hole, 12/10/2018 9:51:46 AM

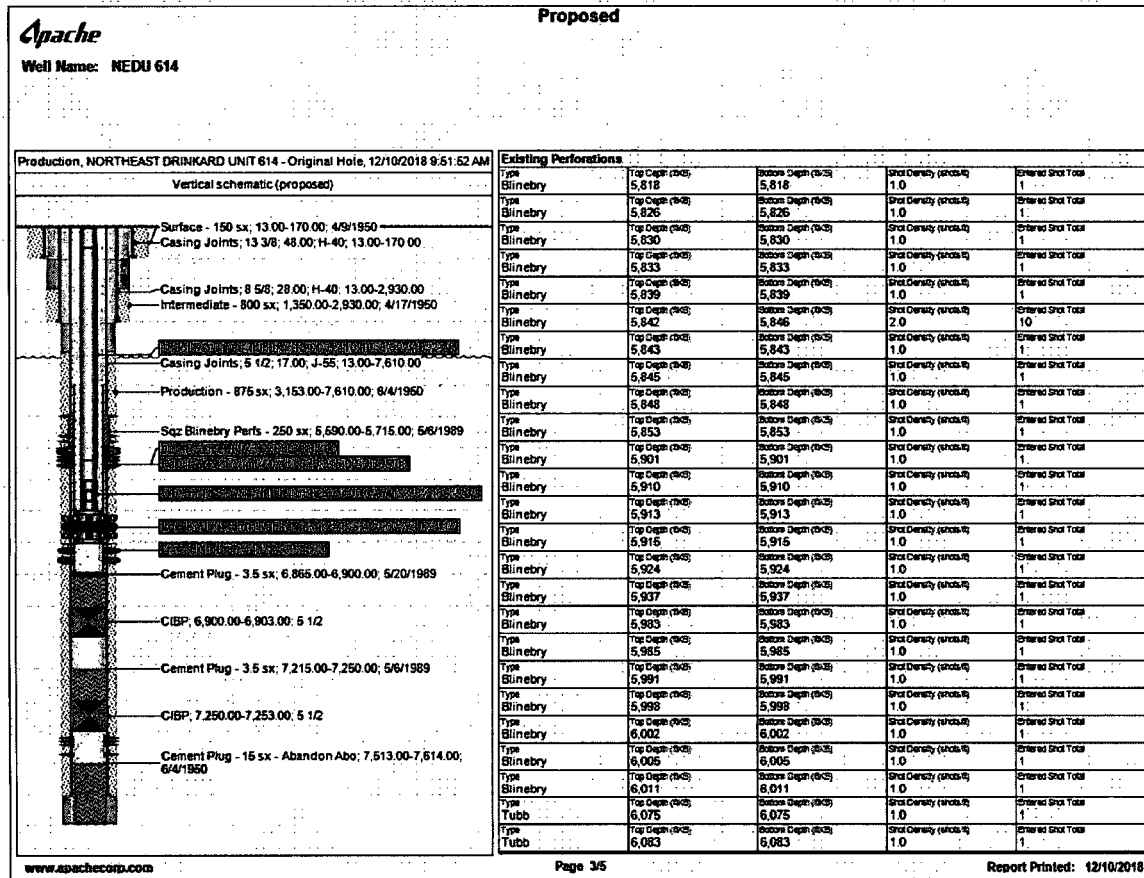
Vertical schematic (proposed)



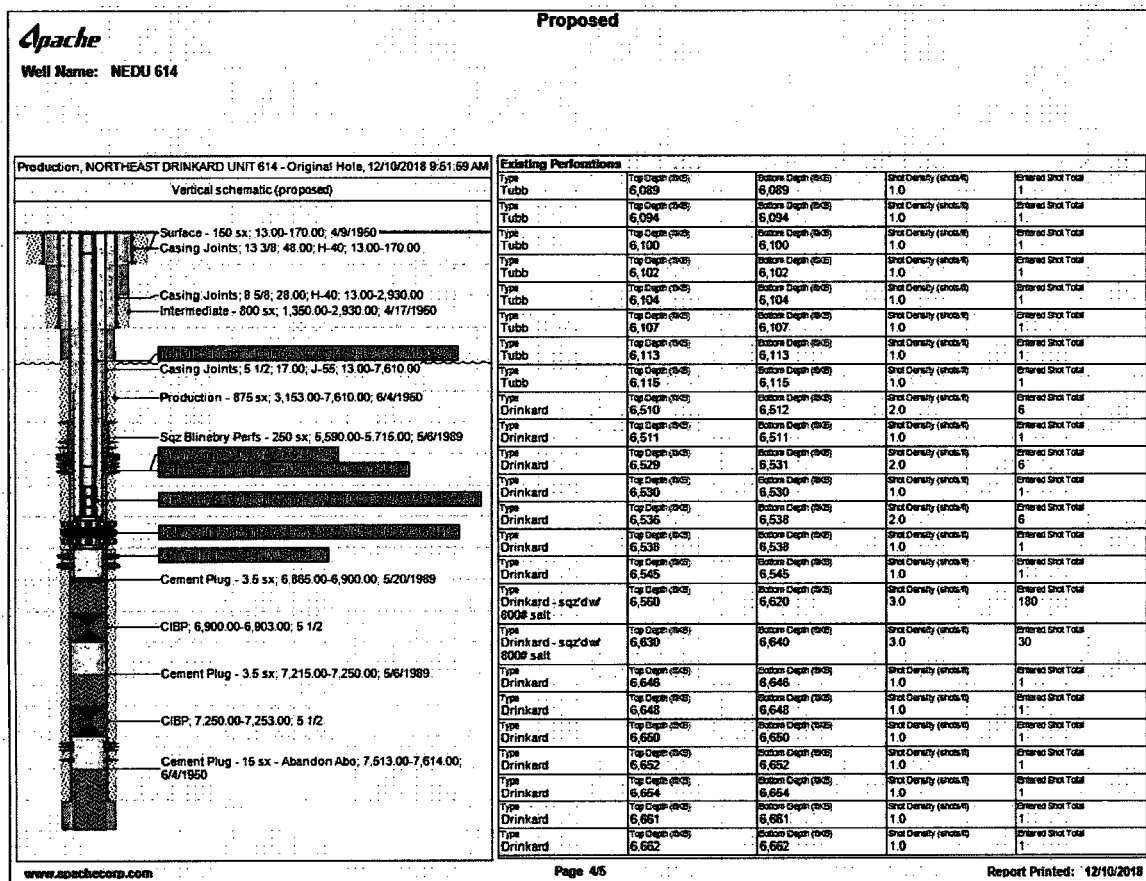
Existing Perforations

Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry Sqz'd	5,590	5,670	4.0	324
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry Sqz'd	5,690	5,715	4.0	104
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry	5,719	5,719	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry	5,724	5,724	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry	5,725	5,725	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry	5,730	5,730	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry	5,733	5,733	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry	5,739	5,739	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry	5,743	5,743	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry	5,745	5,745	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry	5,748	5,748	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry	5,771	5,771	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry	5,773	5,773	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry	5,778	5,778	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry	5,784	5,784	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry	5,787	5,787	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry	5,789	5,789	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry	5,794	5,794	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry	5,795	5,795	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry	5,799	5,799	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry	5,802	5,804	2.0	16
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry	5,805	5,805	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry	5,809	5,809	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry	5,813	5,813	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Blinebry	5,818	5,822	2.0	10

FJ Liner Proposed WBD (NORTHEAST DRINKARD UNIT 614)



FJ Liner Proposed WBD ()



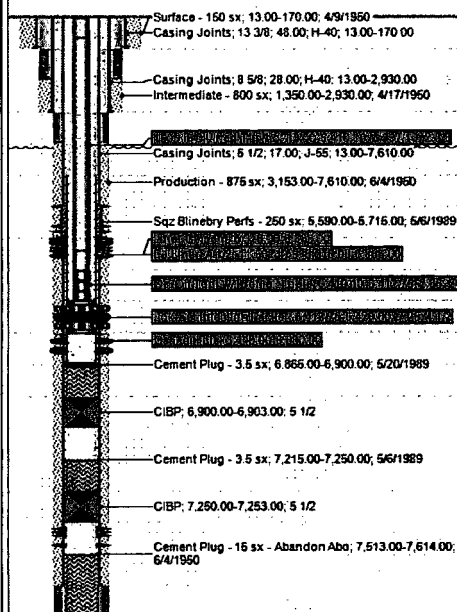


Well Name: NEDU 614

Proposed

Production, NORTHEAST DRINKARD UNIT 614 - Original Hole, 12/10/2018 9:52:06 AM

Vertical schematic (proposed)



Existing Perforations

Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Drinkard	6,683	6,683	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Drinkard	6,684	6,684	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Drinkard	6,688	6,688	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Drinkard	6,689	6,689	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Drinkard	6,695	6,695	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Drinkard	6,697	6,697	1.0	1
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Abo Suspended	7,310	7,320	4.0	44
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Abo Suspended	7,330	7,365	4.0	144
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Abo Suspended	7,364	7,394	4.0	220
Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Abo Suspended	7,440	7,450	4.0	44

Proposed Perforations

Type	Top Depth (ft/d)	Bottom Depth (ft/d)	Shot Density (shots/ft)	Entered Shot Total
Cased Hole	6,440	6,630	2.0	381

J Liner Proposed WBD ()