

Submit 1 Copy To Appropriate District Office

District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
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District III - (505) 334-6175
1000 Rio Brazos Rd., Santa Fe, NM 87410
District IV - (505) 747-9460
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. 30-025-06587
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. B-1481
7. Lease Name or Unit Agreement Name Northeast Drinkard Unit (NEDU) [22503]
8. Well Number 606
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 OR FOR "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

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

2. Name of Operator
Apache Corporation

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

4. Well Location
Unit Letter F : 3375 feet from the South line and 3225 feet from the East line
Section 15 Township 21S Range 37E NMPM County Lea

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3435' GL

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☒	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		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 perform conformance work on this well, per the attached procedure and supporting WBD information.

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

Spud Date:

12/16/1950

Rig Release Date:

2/8/1951

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 10/24/2018

Type or print name Reesa Fisher

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

PHONE: (432) 818-1062

For State Use Only

APPROVED BY:

Melissa Brown

TITLE

AO/I

DATE

10/30/2018

Conditions of Approval (if any):

NEDU 606W: (API: 30-025-06587)

OBJECTIVE: ISOLATE DRINKARD FOR INJECTION

Scenario 1: Dual Packer Isolation

1. POOH w rods and 2-3/8" production tubing
2. PU workstring and RIH w/ bit or mill and clean out well to PBTD at 6815'.
3. RIH w/ packer and RBP and test casing above 5576'. **If casing/old squeezes don't hold pressure, proceed to scenario 2 and run 4.5" FJ liner.**
4. Make casing scraper run to casing shoe POOH
5. Run casing inspection log and cement bond log from top of Drinkard to surface. POOH.
6. RIH w/ wireline and perforate Drinkard formation f/ 6480'-6700' (actual depths TBD). POOH.
7. RIH w/ workstring and treating packer to acid stimulate Drinkard formation w/ 5000 gals 15% HCl using rock salt for diversion. POOH.
8. MIRU wireline. RIH w/ 5-1/2" permanent packer and set in good casing between Blinbry and Drinkard (Depth dependent on casing inspection log)
9. PU 600-800' of 2-3/8" IPC externally coated tubing w/ 5-1/2" hydraulic packer on top and tie into permanent packer. Pressure up tubing to set hydraulic packer at 5565'. Circulate packer fluid and test casing to 500 psi.
10. Perform MIT for NMOCD and place well on injection

Scenario 2: Cement 4.5" FJ Liner from TD to Surface

1. POOH w rods and 2-3/8" production tubing
2. PU workstring and RIH w/ bit and clean out well to PBTD at 6815'.
3. MIRU cement and casing crew and PU and run 4.5" FJ casing including float shoe and float collar from PBTD to surface. Pump cement and circulate to surface.
4. PU 3-7/8" bit and drill out cement to float collar. Pressure test casing. Continue drilling out cement if needed to perforate. POOH.
5. MIRU wireline. Run CBL from PBTD to surface
6. PU wireline guns and perforate Drinkard formation f/6480'—6700' (Depths TBD). POOH
7. PU 4.5" treating packer on 2-3/8" workstring and set packer ~100' above top perf and load backside.
8. Acid stimulate Drinkard formation w/ 5000 gals 15% HCl using 1.1 SG ball sealers for diversion. Release packer and knock off balls. POOH.
9. RIH w 4.5" injection packer and ~6500' of 2-3/8" IPC tubing. Set packer within 20' of top perf.
10. Circulate packer fluid and test casing to 500 psi
11. Perform MIT for NMOCD and place well on injection

Apache		Downhole Well Profile w Cement						
Well Name: NEDU 606W		Surface Legal Location		Field Name	State/Province			
API Surface Loc 3002506587	Surface Legal Location 3375 FSL, 3225 FEL, Unit F, Sec 15, T-21S, R-37E	Field Name Eunice (North) Bld		State/Province New Mexico				
Spud Date 12/16/1950	Original KB Elevation (ft) 3,448.0	Ground Elevation (ft) 3,435.0	KB to Ground Distance (ft) 13.0					
PBTO (API) (ftKB) Original Hole - 6,815	Total Depth (ftKB) 8,034.0	Comment						
Injection, NORTH-EAST DRINKARD UNIT 606 - Original Hole, 10/17/2018 2:24:17 PM								
Vertical schematic (actual)		Casing Strings						
		Csg Des	OD (in)	Wt Len (lb/ft)	Grade	Ref Depth (ftKB)		
		Surface	13 3/8	48.00	H-40	332.00		
		Inter 1	8 5/8	24.00	J-55	2,804.00		
		Prod 1	5 1/2	15.50	J-55	8,032.00		
		Cement						
		String	Description	Top Depth (ftKB)	Bottom Depth (ftKB)	Top Meas Meth	Start Date	
		Surface, 332.00ftKB, 13 3/8	Surface - 350 sx	13.00	332.00	Returns at Surface	12/17/1950	
		String	Description	Top Depth (ftKB)	Bottom Depth (ftKB)	Top Meas Meth	Start Date	
		Inter 1, 2,804.00ftKB, 8 5/8	Intermediate - 500 sx	500.00	2,804.00		12/23/1950	
		String	Description	Top Depth (ftKB)	Bottom Depth (ftKB)	Top Meas Meth	Start Date	
		Prod 1, 8,032.00ftKB, 5 1/2	Production - 350 sx	6,100.00	8,032.00	Temperature Survey	2/5/1951	
		String	Description	Top Depth (ftKB)	Bottom Depth (ftKB)	Top Meas Meth	Start Date	
		Prod 1, 8,032.00ftKB, 5 1/2	CIBP - 1 sx	6,990.00	7,000.00	Tag	3/9/1959	
		String	Description	Top Depth (ftKB)	Bottom Depth (ftKB)	Top Meas Meth	Start Date	
		Prod 1, 8,032.00ftKB, 5 1/2	Cement Squeeze - 425 sx	3,295.00	6,100.00	Log	3/20/1959	
		String	Description	Top Depth (ftKB)	Bottom Depth (ftKB)	Top Meas Meth	Start Date	
		Prod 1, 8,032.00ftKB, 5 1/2	Sqz Paddock Perfs - 75 sx	5,130.00	5,150.00		7/9/1963	
		String	Description	Top Depth (ftKB)	Bottom Depth (ftKB)	Top Meas Meth	Start Date	
		Prod 1, 8,032.00ftKB, 5 1/2	Sqz SA Perfs - 75 sx	4,857.00	4,878.00		7/9/1963	
		String	Description	Top Depth (ftKB)	Bottom Depth (ftKB)	Top Meas Meth	Start Date	
		Prod 1, 8,032.00ftKB, 5 1/2	Sqz SA Perfs - 75 sx	4,052.00	4,086.00		7/9/1963	
		String	Description	Top Depth (ftKB)	Bottom Depth (ftKB)	Top Meas Meth	Start Date	
		Prod 1, 8,032.00ftKB, 5 1/2	Csg Leak - 325 sx	3,102.00	3,134.00	Returns at Surface	1/4/1989	
		String	Description	Top Depth (ftKB)	Bottom Depth (ftKB)	Top Meas Meth	Start Date	
		Prod 1, 8,032.00ftKB, 5 1/2	Sqz Blinetry Perfs - 200 sx	5,566.00	5,990.00		1/4/1989	
		String	Description	Top Depth (ftKB)	Bottom Depth (ftKB)	Top Meas Meth	Start Date	
		Prod 1, 8,032.00ftKB, 5 1/2	CIBP - 3.5 sx	6,815.00	6,850.00	Tag	1/20/1989	
		String	Description	Top Depth (ftKB)	Bottom Depth (ftKB)	Top Meas Meth	Start Date	
		Prod 1, 8,032.00ftKB, 5 1/2	Polymer Squeeze - 65 bbl ttl	4,052.00	4,878.00		8/15/2000	
		String	Description	Top Depth (ftKB)	Bottom Depth (ftKB)	Top Meas Meth	Start Date	
		Prod 1, 8,032.00ftKB, 5 1/2	Polymer Squeeze - 65 bbl ttl	5,566.00	5,585.00		8/15/2000	
		String	Description	Top Depth (ftKB)	Bottom Depth (ftKB)	Top Meas Meth	Start Date	
		Prod 1, 8,032.00ftKB, 5 1/2	Polymer Squeeze - 65 bbl ttl	5,613.00	5,682.00		8/15/2000	
		Perforations						
		Date	Type	Prop?	Top (ftKB)	Strm (ftKB)	Shot Class (shots/ft)	Entered Shot Total
		3/27/1959	Grayburg Sqz'd	No	3,858	3,866	4.0	36
		3/27/1959	Grayburg Sqz'd	No	3,876	3,885	4.0	40

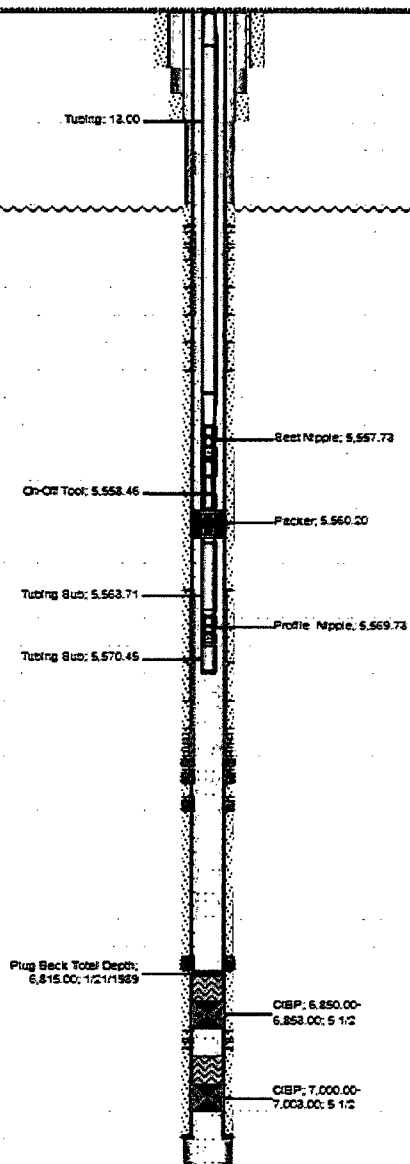


Downhole Well Profile w Cement

Well Name: NEDU 606W

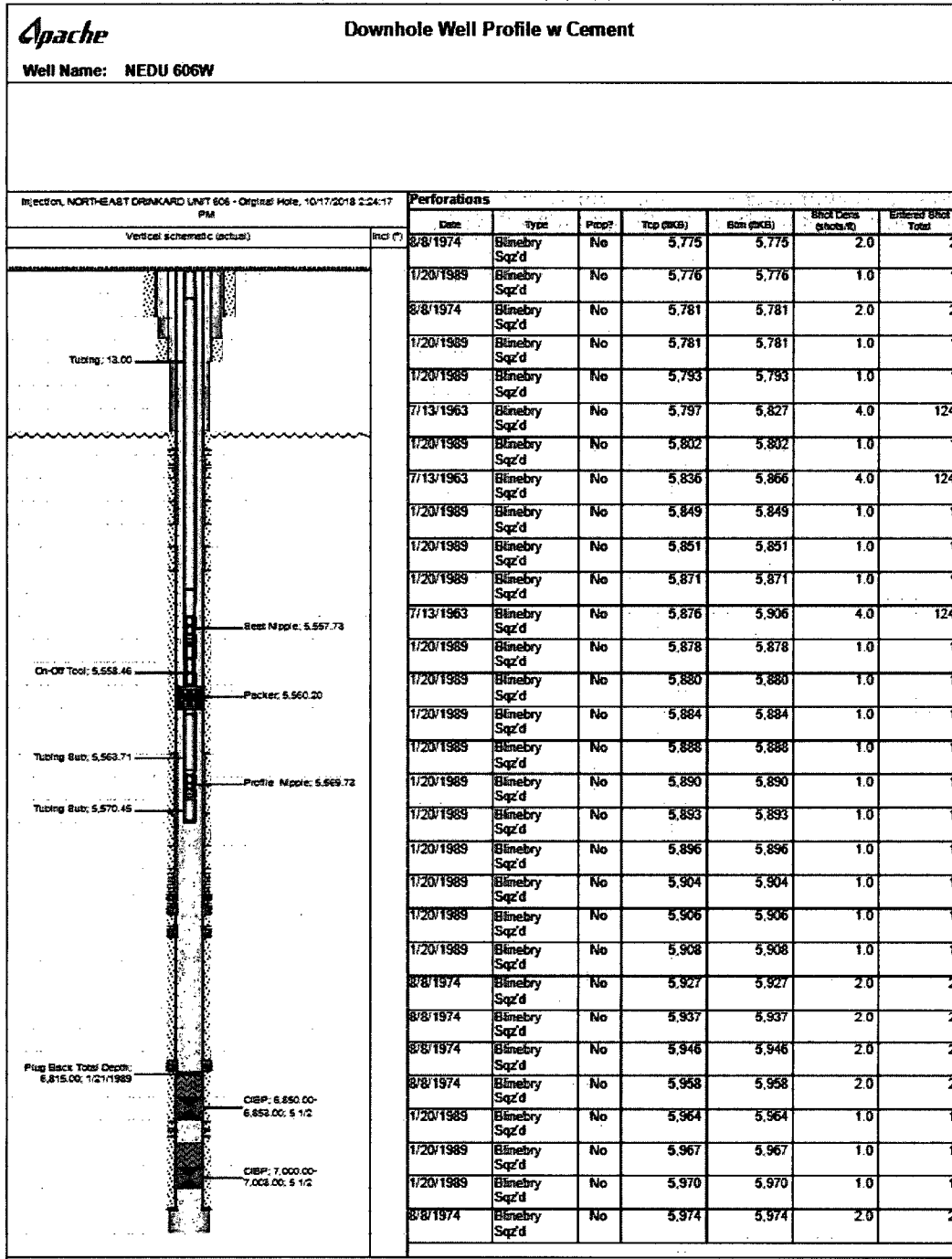
Injection, NORTHEAST DRUNKARD UNIT 606 - Original Hole, 10/17/2018 2:24:17 PM

Vertical schematic (actual) (in) (')



Perforations

Date	Type	Prop?	Top (SKB)	Bot (SKB)	Shot Dens (shots/ft)	Entered Shot Total
3/20/1989	San Andres Sqz'd	No	4,052	4,066	4.0	56
3/20/1989	San Andres Sqz'd	No	4,071	4,086	4.0	60
3/20/1989	San Andres Sqz'd	No	4,857	4,878	4.0	84
3/20/1989	Paddock Sqz'd	No	5,130	5,150	4.0	80
8/8/1974	Blainebr Sqz'd	No	5,566	5,566	2.0	2
8/8/1974	Blainebr Sqz'd	No	5,574	5,574	2.0	2
8/8/1974	Blainebr Sqz'd	No	5,585	5,585	2.0	2
8/8/1974	Blainebr Sqz'd	No	5,613	5,613	2.0	2
8/8/1974	Blainebr Sqz'd	No	5,627	5,627	2.0	2
8/8/1974	Blainebr Sqz'd	No	5,638	5,638	2.0	2
8/8/1974	Blainebr Sqz'd	No	5,645	5,645	2.0	2
8/8/1974	Blainebr Sqz'd	No	5,654	5,654	2.0	2
8/8/1974	Blainebr Sqz'd	No	5,660	5,660	2.0	2
8/8/1974	Blainebr Sqz'd	No	5,670	5,670	2.0	2
8/8/1974	Blainebr Sqz'd	No	5,682	5,682	2.0	2
8/8/1974	Blainebr Sqz'd	No	5,714	5,714	2.0	2
8/8/1974	Blainebr Sqz'd	No	5,730	5,730	2.0	2
1/20/1989	Blainebr Sqz'd	No	5,737	5,737	1.0	1
8/8/1974	Blainebr Sqz'd	No	5,739	5,739	2.0	2
1/20/1989	Blainebr Sqz'd	No	5,739	5,739	1.0	1
1/20/1989	Blainebr Sqz'd	No	5,742	5,742	1.0	1
8/8/1974	Blainebr Sqz'd	No	5,749	5,749	2.0	2
1/20/1989	Blainebr Sqz'd	No	5,754	5,754	1.0	1
8/8/1974	Blainebr Sqz'd	No	5,760	5,760	2.0	2
1/20/1989	Blainebr Sqz'd	No	5,760	5,760	1.0	1
1/20/1989	Blainebr Sqz'd	No	5,762	5,762	1.0	1
1/20/1989	Blainebr Sqz'd	No	5,766	5,766	1.0	1
8/8/1974	Blainebr Sqz'd	No	5,768	5,768	2.0	2
1/20/1989	Blainebr Sqz'd	No	5,768	5,768	1.0	1
1/20/1989	Blainebr Sqz'd	No	5,774	5,774	1.0	1



Apache**Downhole Well Profile w Cement****Well Name: NEDU 605W**

Injection, NORTHEAST DRINKARD UNIT 606 - Original Hole, 10/17/2016 2:24:17 PM

Perforations

Vertical schematic (actual)		Perforations					
		Date	Type	Prop?	Top (DKB)	Bot (DKB)	Shot Dens (shots/ft)
							Entered Shot Total
		1/20/1989	Blindbry Sqz'd	No	5,977	5,977	1.0
		1/20/1989	Blindbry Sqz'd	No	5,979	5,979	1.0
		8/8/1974	Blindbry Sqz'd	No	5,990	5,990	2.0
		1/20/1989	Tubb	No	6,047	6,047	1.0
		1/20/1989	Tubb	No	6,049	6,049	1.0
		1/20/1989	Tubb	No	6,058	6,058	1.0
		1/20/1989	Tubb	No	6,061	6,061	1.0
		1/20/1989	Tubb	No	6,064	6,064	1.0
		1/20/1989	Tubb	No	6,069	6,069	1.0
		1/20/1989	Tubb	No	6,073	6,073	1.0
		1/20/1989	Tubb	No	6,077	6,077	1.0
		1/20/1989	Tubb	No	6,080	6,080	1.0
		1/20/1989	Tubb	No	6,084	6,084	1.0
		1/20/1989	Tubb	No	6,088	6,088	1.0
		1/20/1989	Tubb	No	6,091	6,091	1.0
		1/20/1989	Tubb	No	6,094	6,094	1.0
		1/20/1989	Tubb	No	6,097	6,097	1.0
		1/20/1989	Drinkard	No	6,481	6,481	1.0
		1/20/1989	Drinkard	No	6,484	6,484	1.0
		1/20/1989	Drinkard	No	6,499	6,499	1.0
		1/20/1989	Drinkard	No	6,503	6,503	1.0
		1/20/1989	Drinkard	No	6,508	6,508	1.0
		1/20/1989	Drinkard	No	6,511	6,511	1.0
		1/20/1989	Drinkard	No	6,539	6,539	1.0
		1/20/1989	Drinkard	No	6,547	6,547	1.0
		8/28/2000	Drinkard	No	6,572	6,584	4.0
		1/20/1989	Drinkard	No	6,575	6,575	1.0
		1/20/1989	Drinkard	No	6,578	6,578	1.0
		1/20/1989	Drinkard	No	6,582	6,582	1.0
		8/28/2000	Drinkard	No	6,590	6,595	4.0
		1/20/1989	Drinkard	No	6,593	6,593	1.0
		8/28/2000	Drinkard	No	6,604	6,612	4.0
		1/20/1989	Drinkard	No	6,607	6,607	1.0
		1/20/1989	Drinkard	No	6,610	6,610	1.0
		8/28/2000	Drinkard	No	6,618	6,624	4.0
		1/20/1989	Drinkard	No	6,620	6,620	1.0
		1/20/1989	Drinkard	No	6,622	6,622	1.0
		1/20/1989	Drinkard	No	6,640	6,640	1.0
		1/20/1989	Drinkard	No	6,656	6,656	1.0
		1/20/1989	Drinkard	No	6,662	6,662	1.0
		1/20/1989	Drinkard	No	6,664	6,664	1.0
		1/20/1989	Drinkard	No	6,670	6,670	1.0
		1/20/1989	Drinkard	No	6,678	6,678	1.0
		1/20/1989	Drinkard	No	6,691	6,691	1.0
		1/20/1989	Drinkard	No	6,694	6,694	1.0
		1/20/1989	Drinkard	No	6,698	6,698	1.0
		1/20/1989	Drinkard	No	6,701	6,701	1.0
		1/20/1989	Drinkard	No	6,706	6,706	1.0
		1/20/1989	Drinkard	No	6,710	6,710	1.0
		1/20/1989	Drinkard	No	6,725	6,725	1.0

Tubing: 13.00

Seat Nipple: 5,557.73

On-Off Tool: 5,558.46

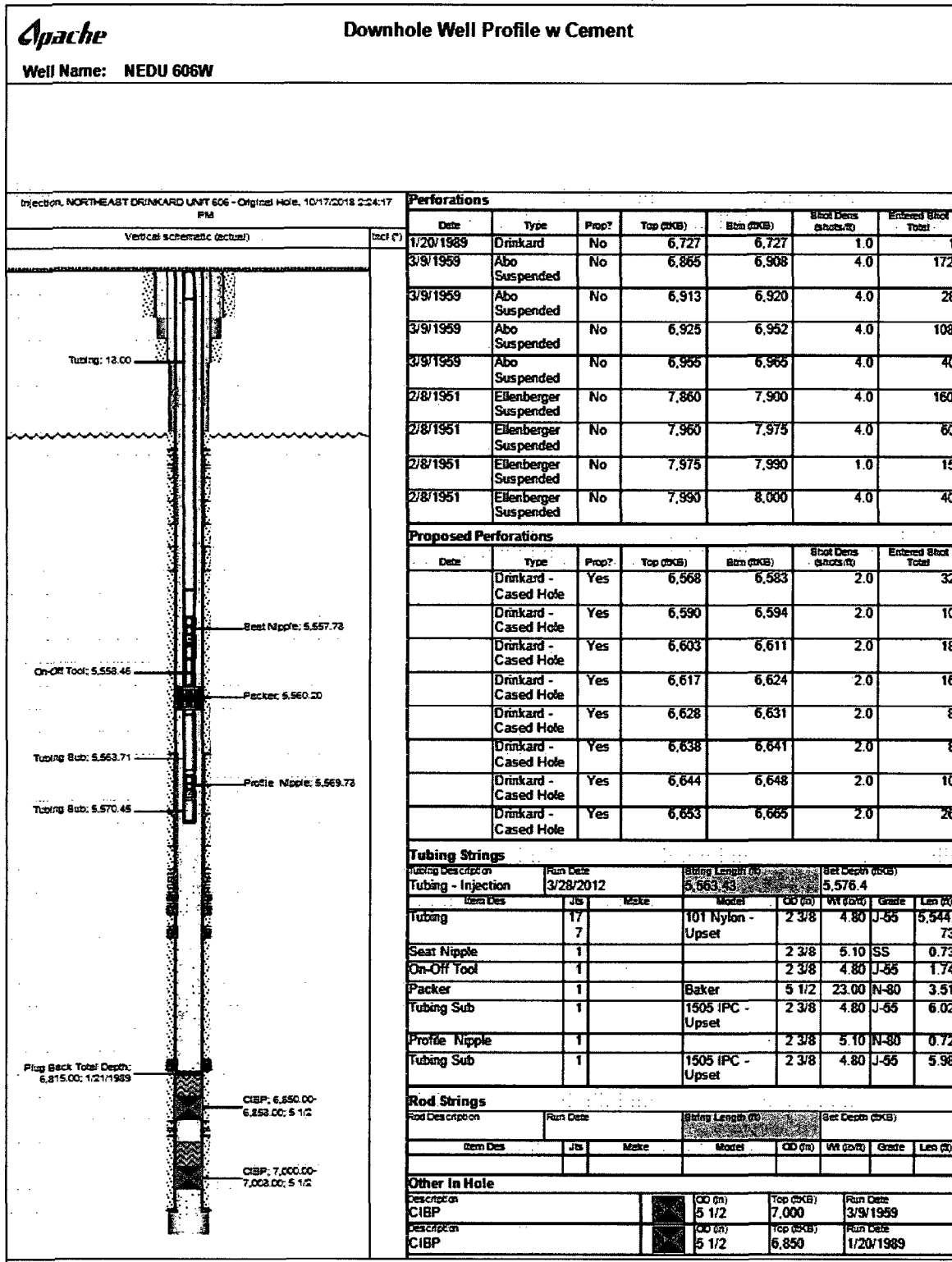
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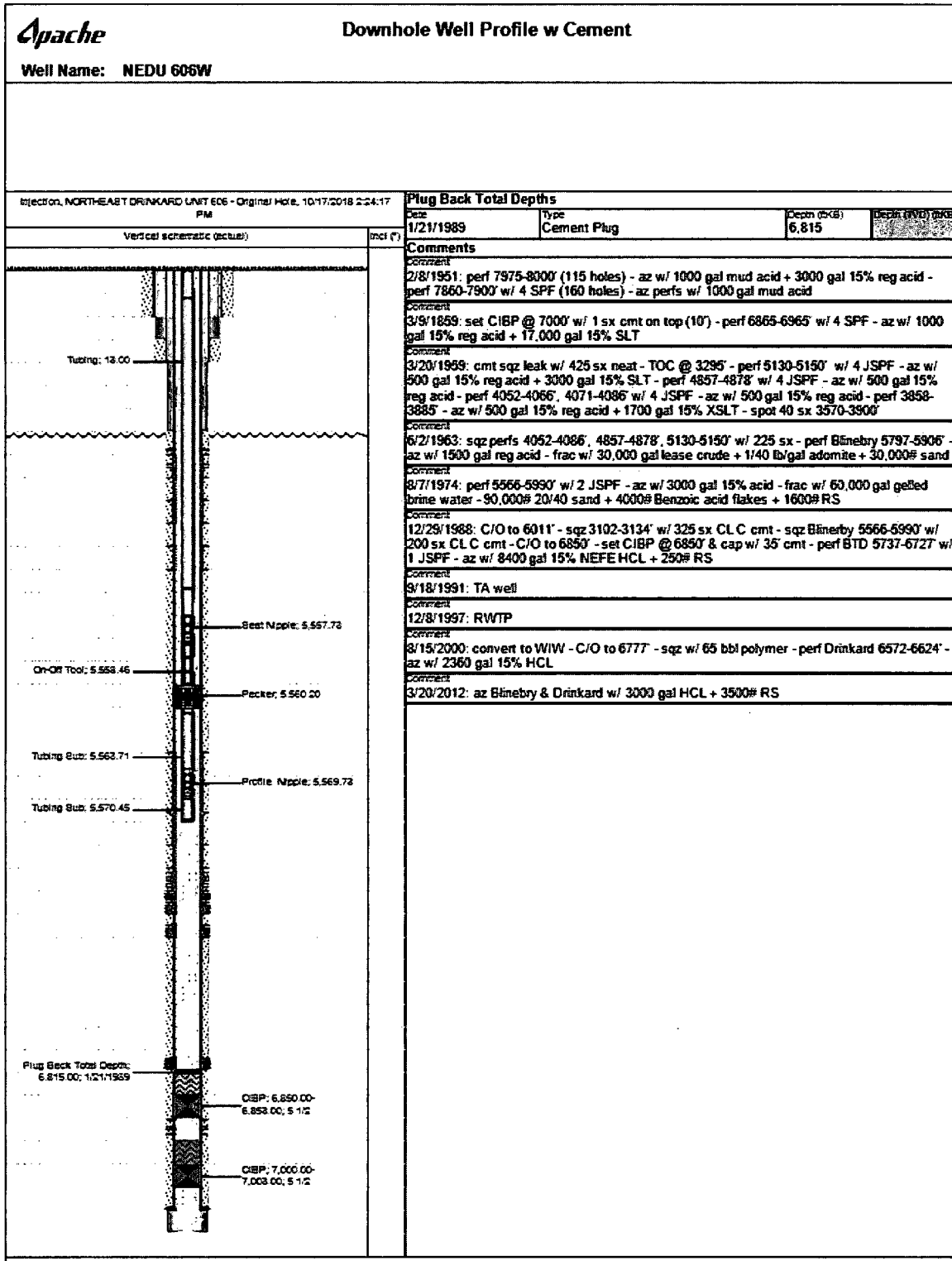
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Profile Nipple: 5,563.73

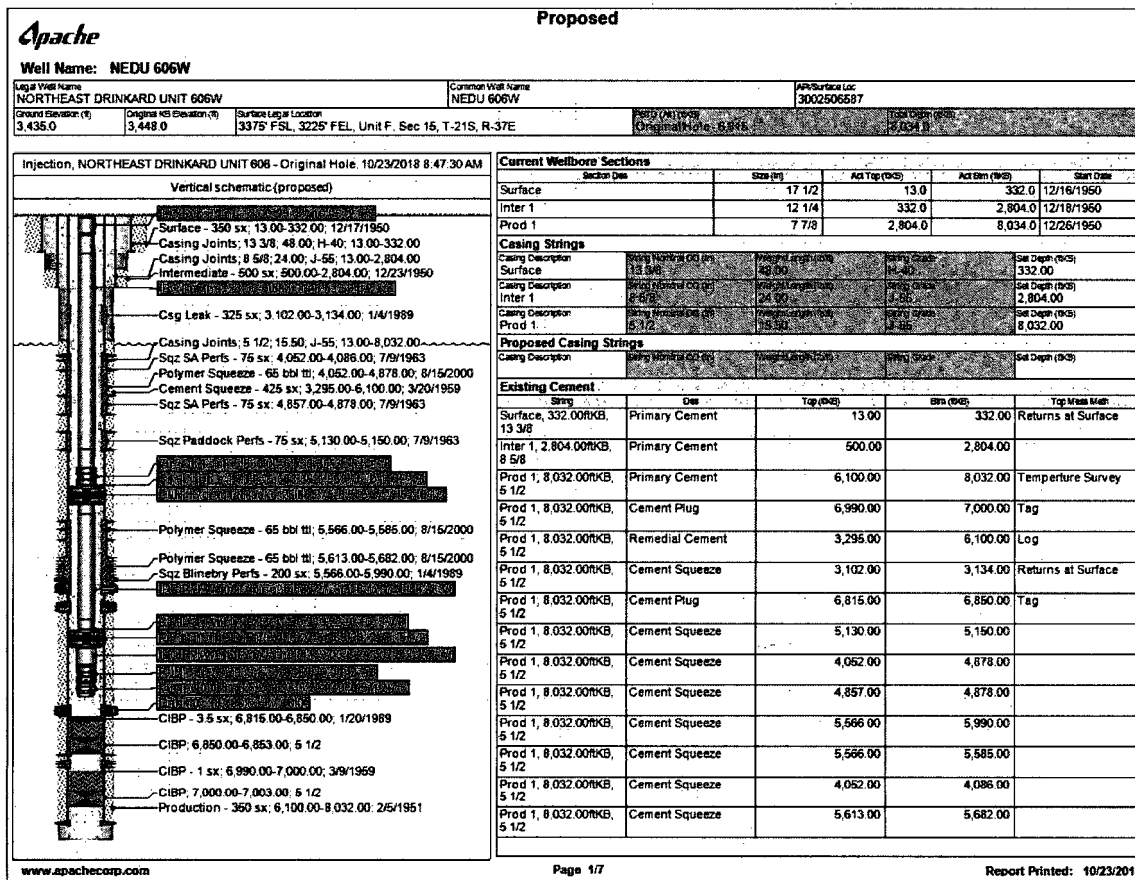
Tubing Sub: 5,570.45

Plug Back Total Depth:
6,815.00; 1/21/1989CISP: 6,850.00-
6,853.00; 5 1/2CISP: 7,000.00-
7,003.00; 5 1/2

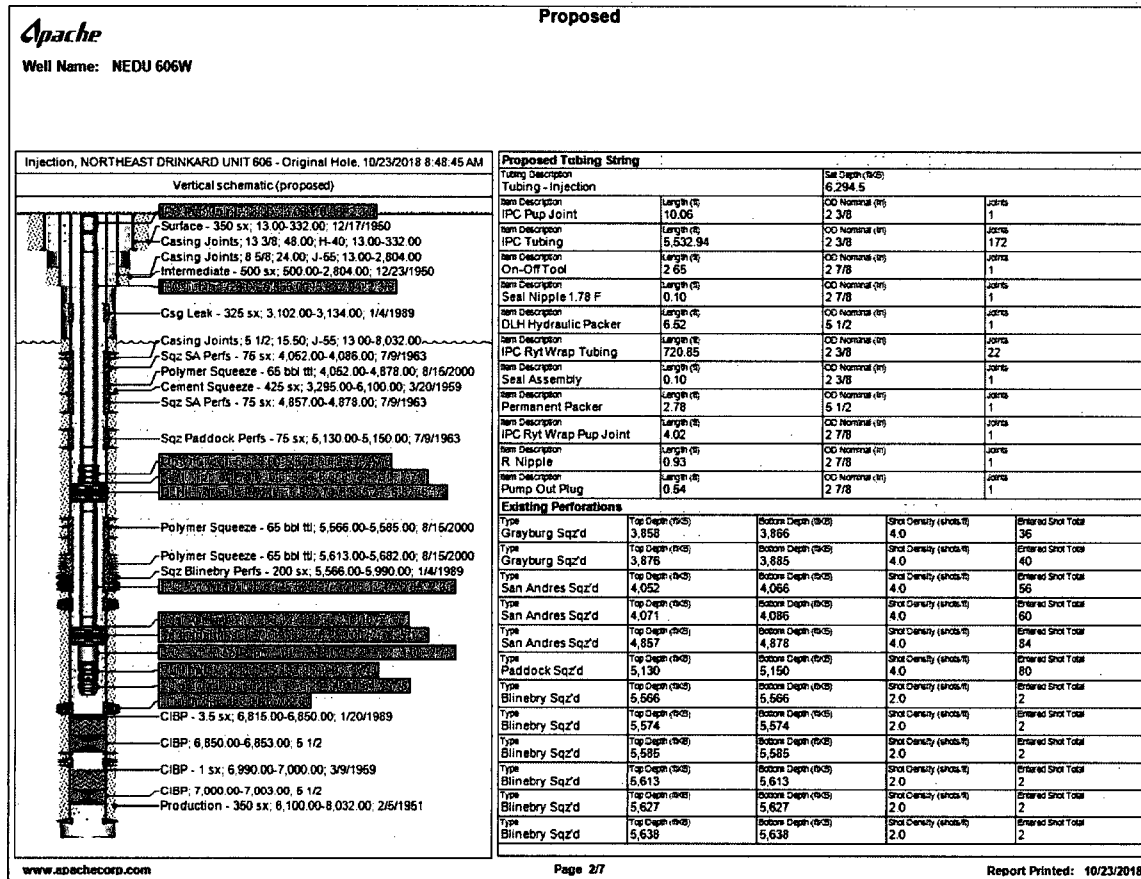




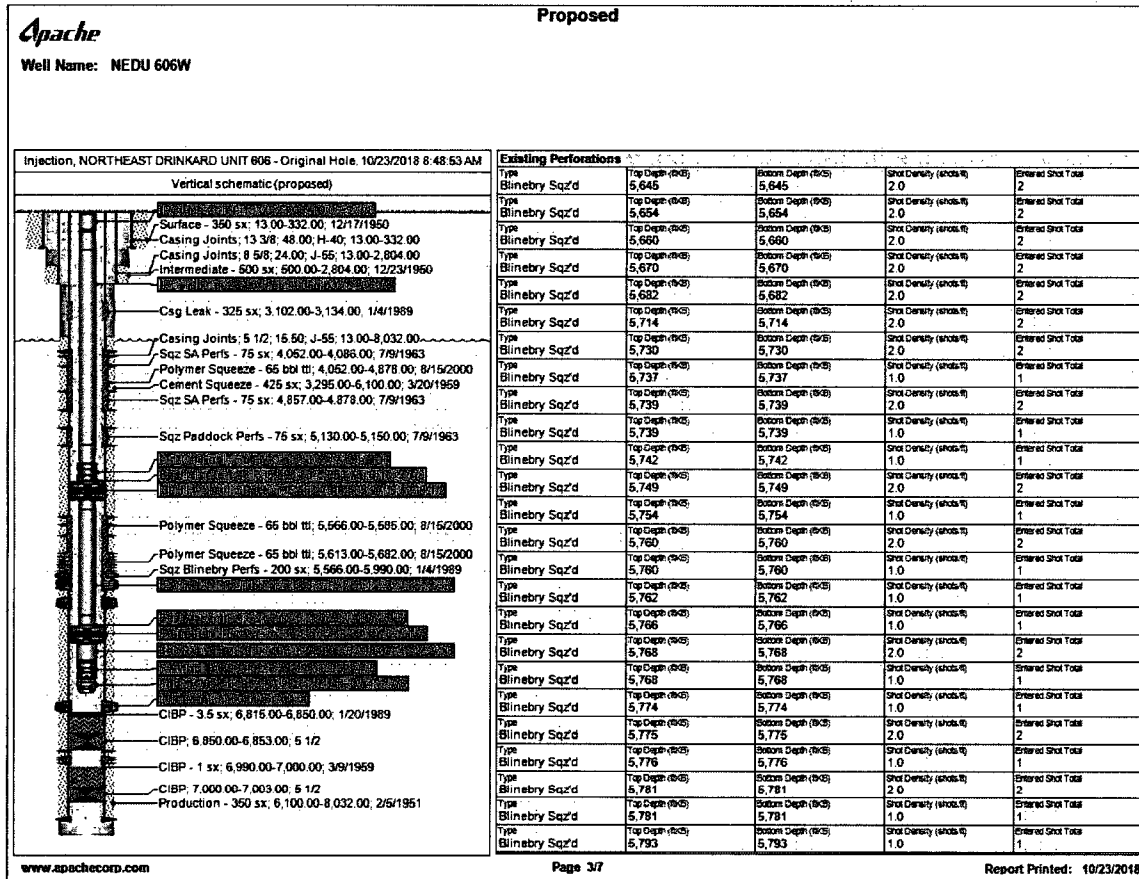
Scenario 1: Dual Packer Proposed WBD



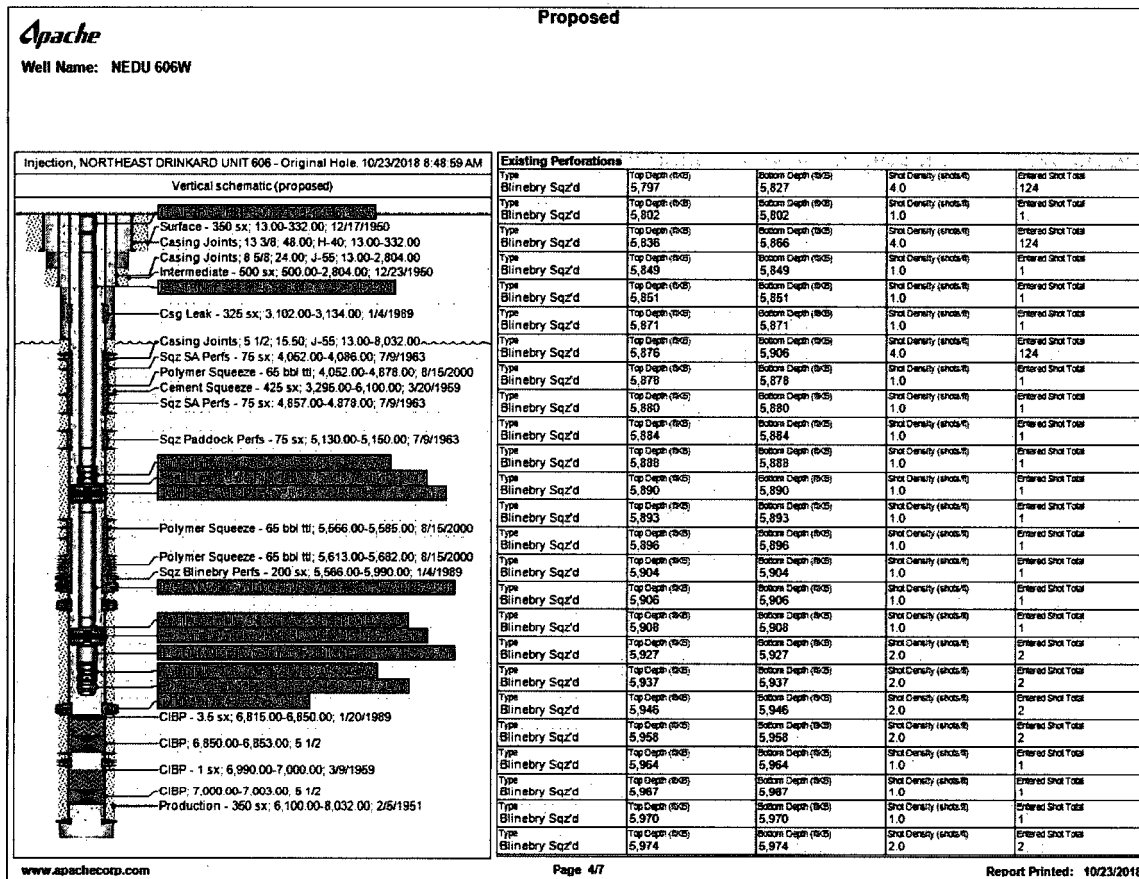
Scenario 1: Dual Packer Proposed WBD (Proposed Change in Yellow)



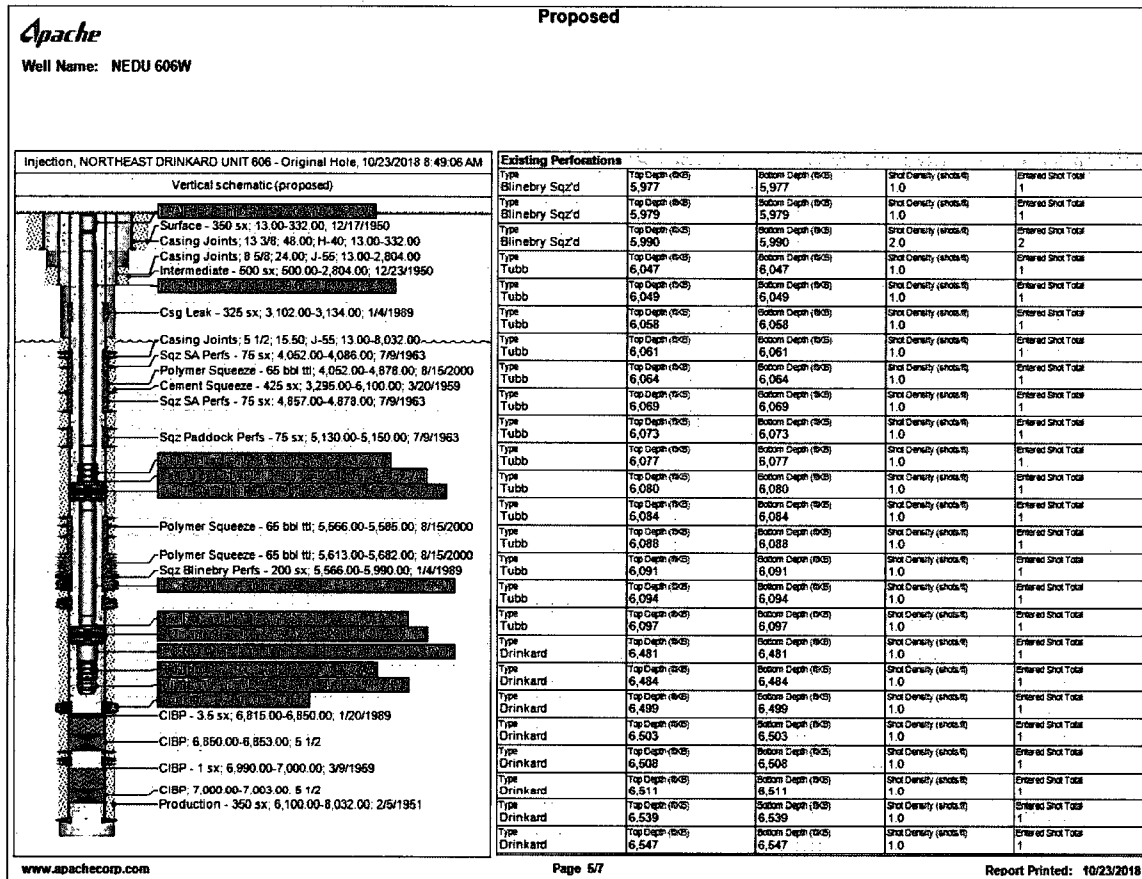
Scenario 1: Dual Packer Proposed WBD ()



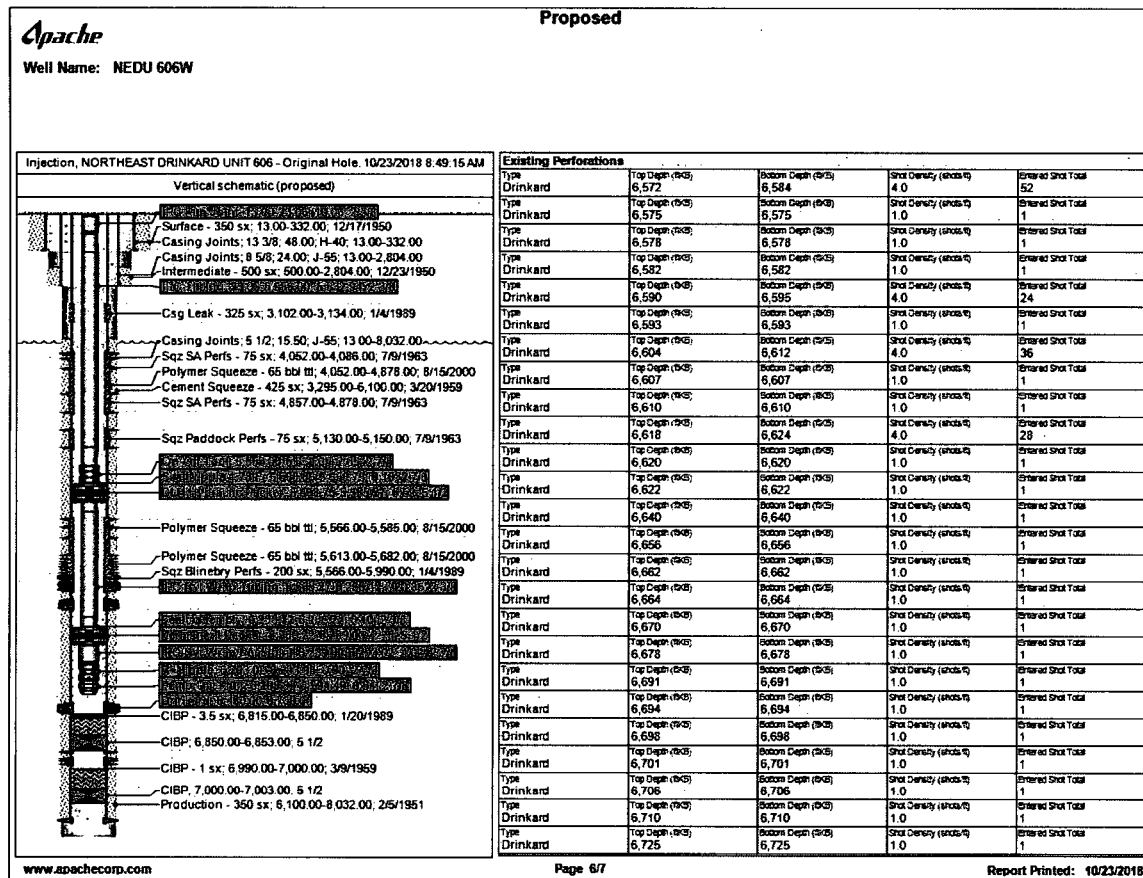
Scenario 1: Dual Packer Proposed WBD ()



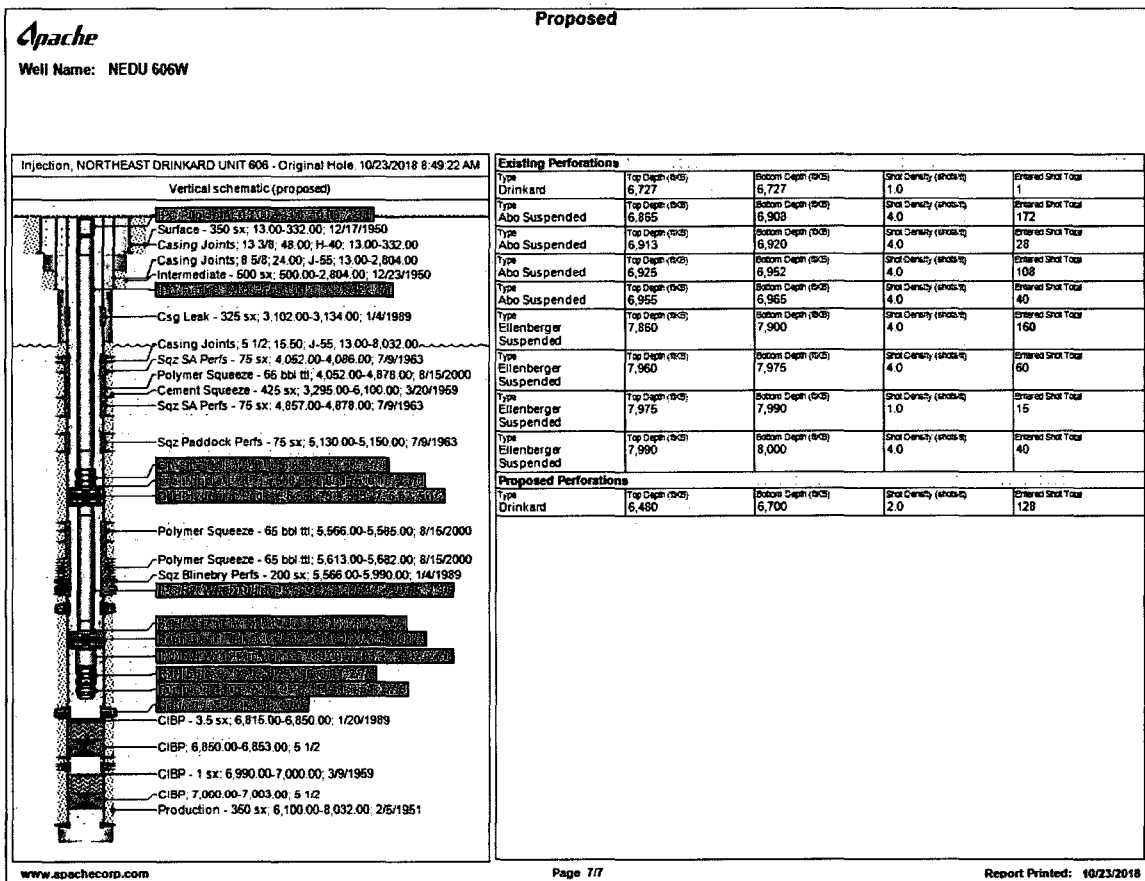
Scenario 1: Dual Packer Proposed WBD ()



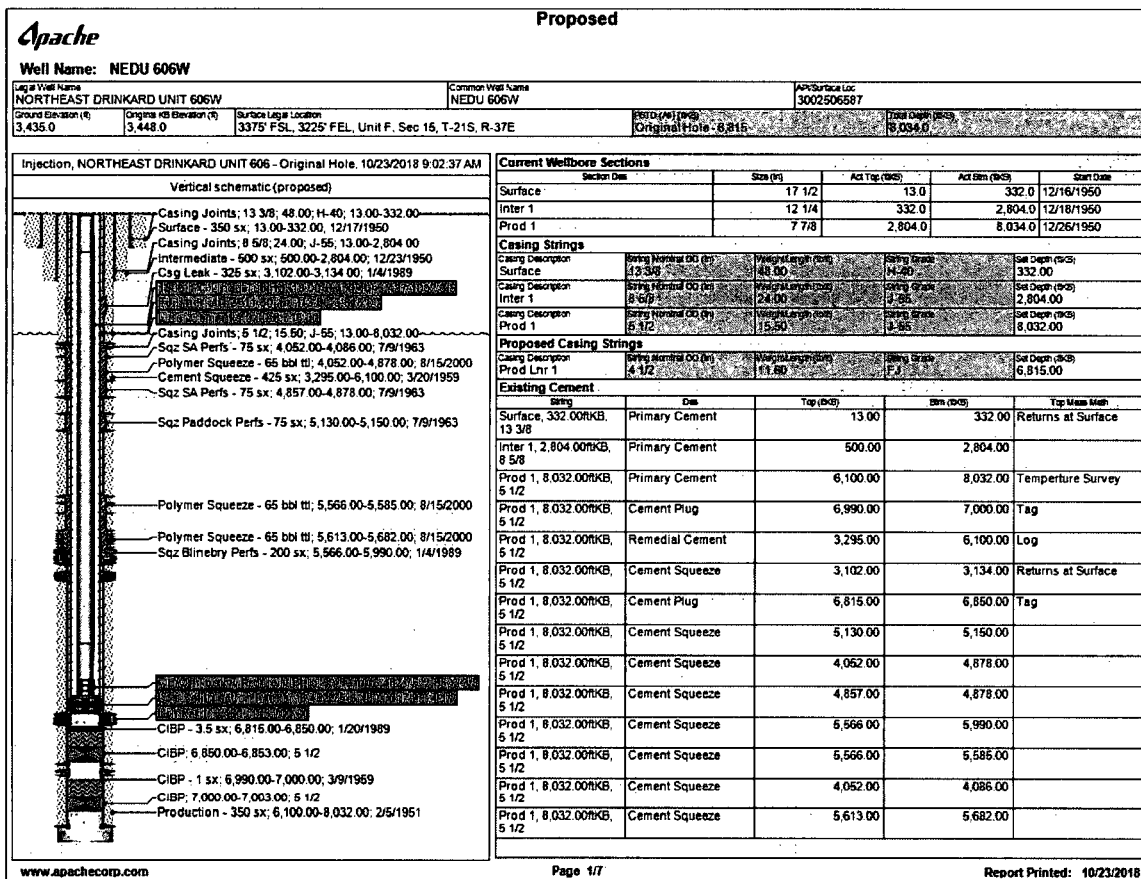
Scenario 1: Dual Packer Proposed WBD (Proposed Changes Only)



Scenario 1: Dual Packer Proposed WBD (b)(7)(C), (b)(7)(D)



Scenario 2: FJ Liner Proposed WBD **Gravelled Cement in Yellow**

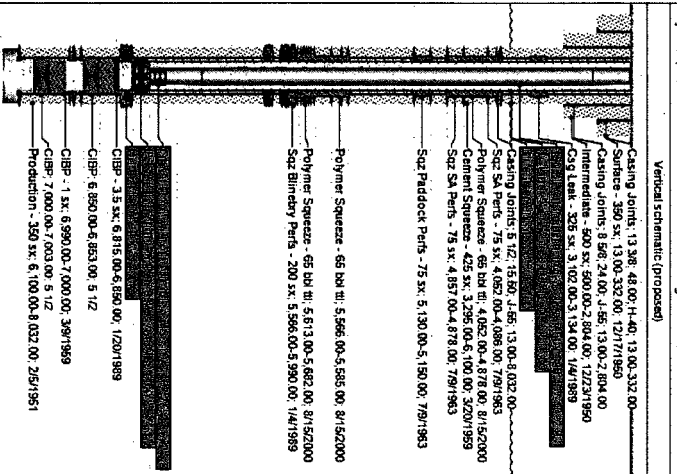


Proposed

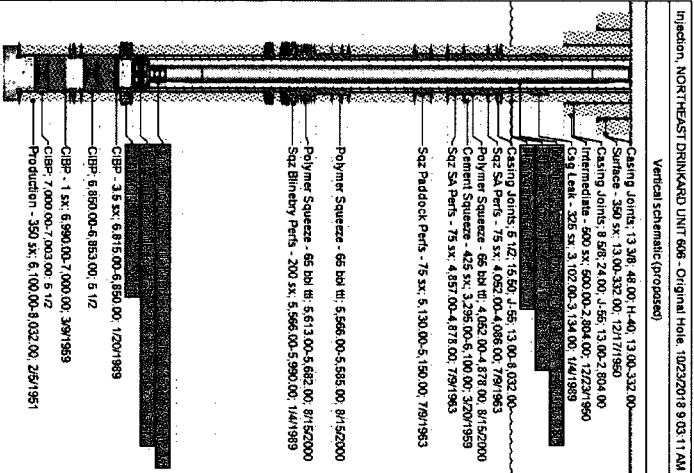
Apache

Well Name: NEDU 606W

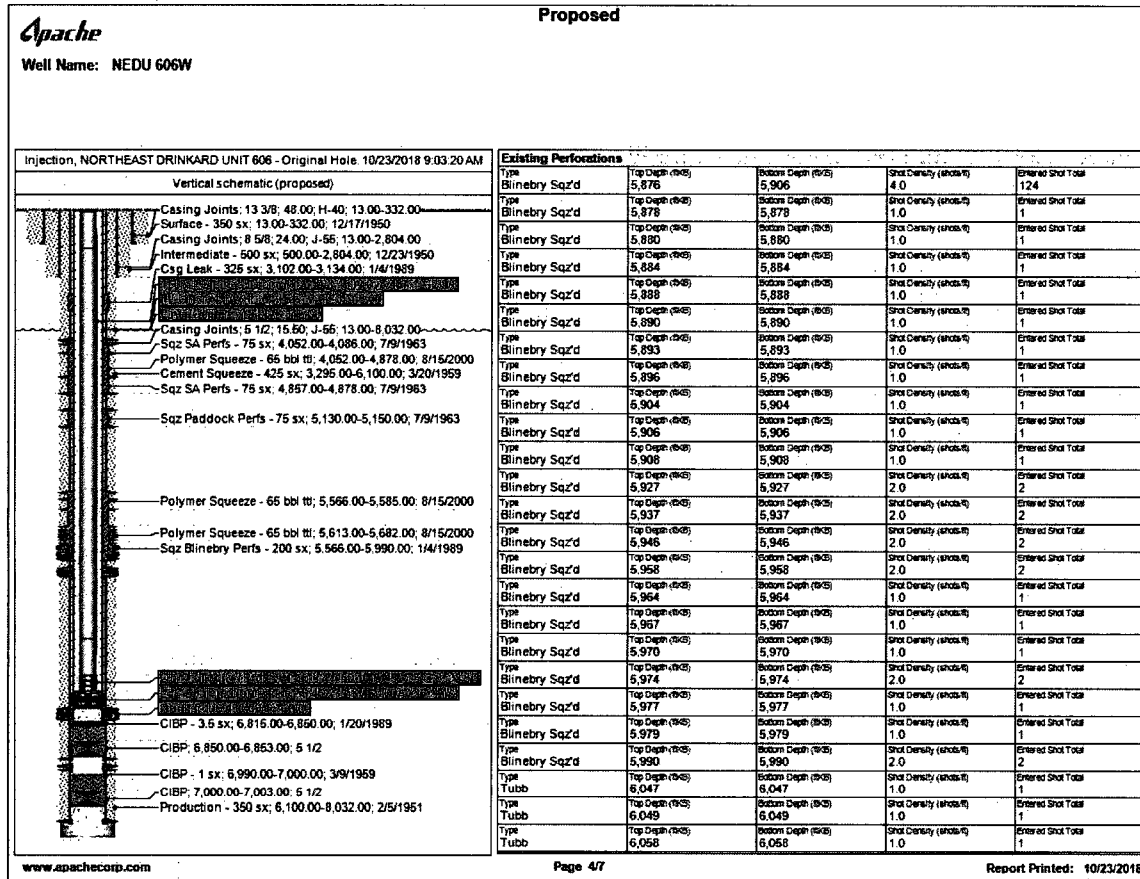
Vertical schematic (proposed)

[illegible]

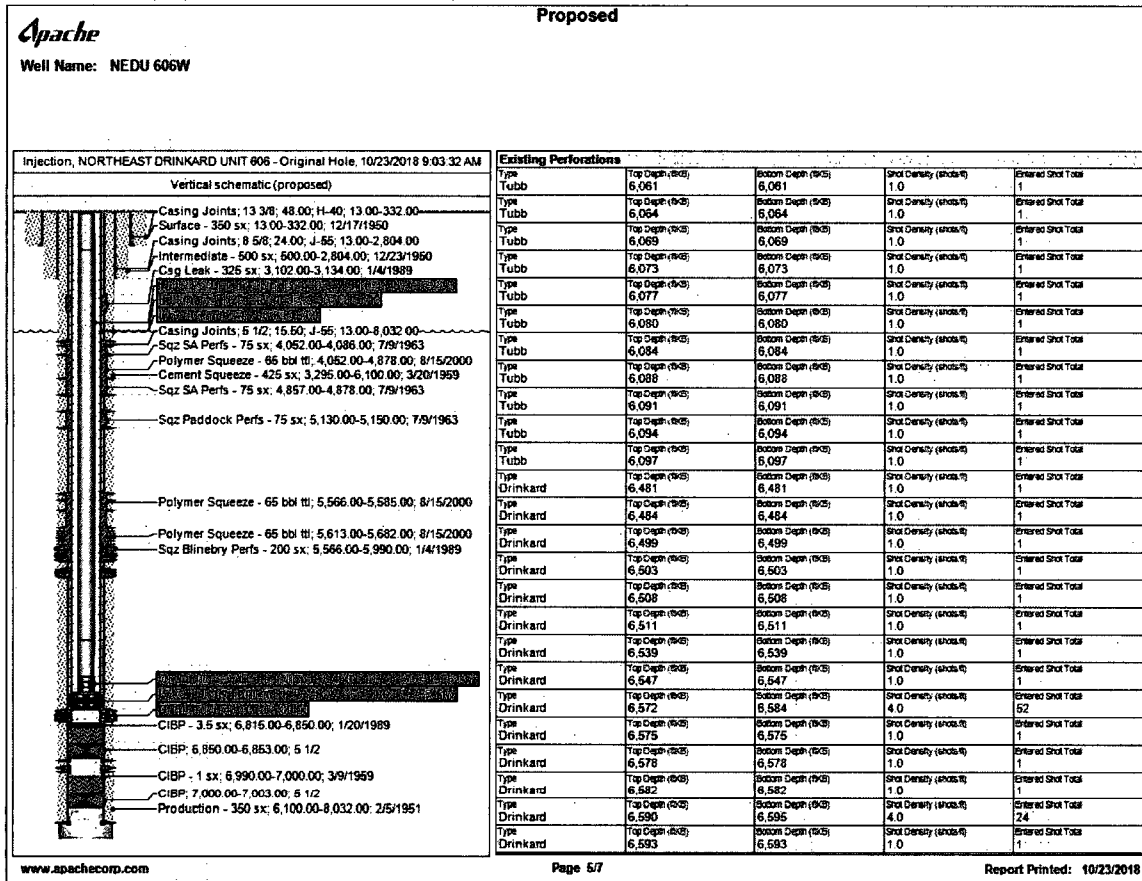
Proposed

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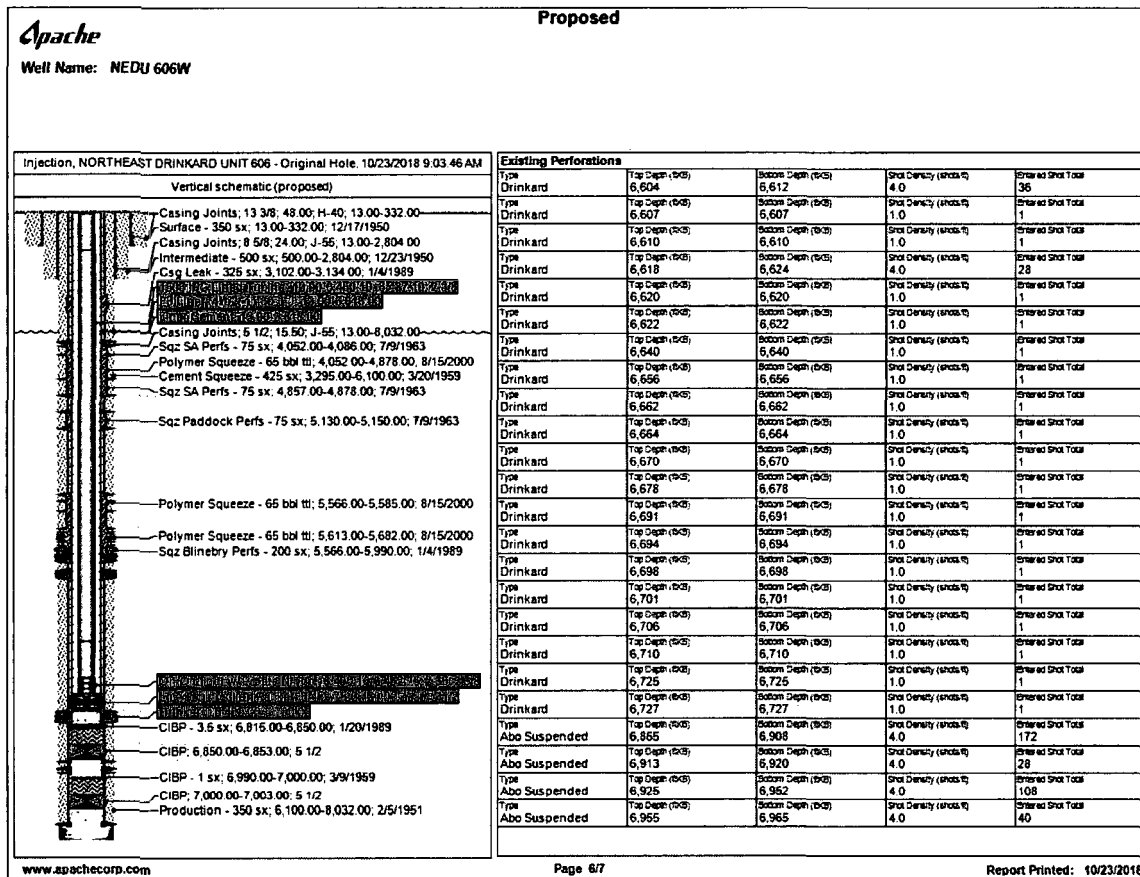
Scenario 2: FJ Liner Proposed WBD



Scenario 2: FJ Liner Proposed WBD



Scenario 2: FJ Liner Proposed WBD (Approved Change in Yellow)



Scenario 2: FJ Liner Proposed WBD (No Interval Changes in Well)

