

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

WELL API NO. 30-025-09914
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. B0 -1481-0018
7. Lease Name or Unit Agreement Name Northeast Drinkard Unit (NEDU) [22503]
8. Well Number 602
9. OGRID Number 873
10. Pool name or Wildcat Eunice; B-T-D, North [22900]
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3475' GL

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 E : 1980 feet from the North line and 660 feet from the West line
Section 15 Township 21S Range 37E NMPM County Lea

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: 4/11/1948

Rig Release Date: 5/16/1948

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

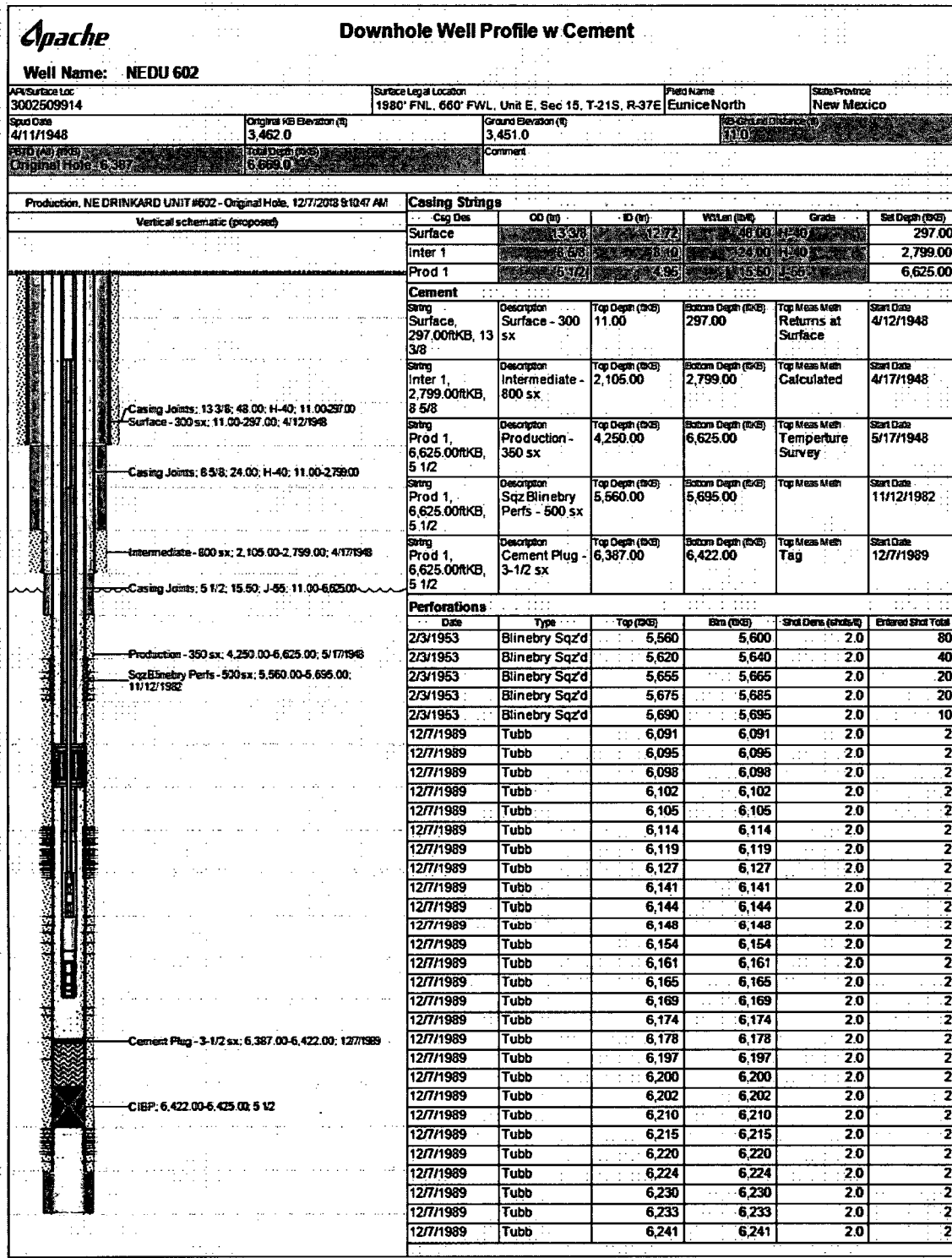
Conditions of Approval (if any): May not inject prior to C-108 approval
Must notify OED Hobbs prior to MIT

NEDU 602: (API: 30-025-09914)

OBJECTIVE: CONVERT TO DRINKARD INJECTOR

Cement 4" FJ liner from Blinebry to TD

1. POOH w rods and 2-7/8" production tubing.
2. PU workstring and RIH w/ bit or mill and clean out well to CIBP at 6644'. Drill out CIBP and continue to TD at 6669'
3. MIRU cement and casing crew and PU ~1500' of 4" casing (including float shoe, float collar, landing collar and liner hanger) using 2-7/8" L-80 workstring.
4. RIH and tag TD. PU and 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. MIRU wireline. Run CBL from PBTD to surface
9. PU wireline guns and perforate Drinkard formation (depths dependent on log eval). POOH
10. PU 4" 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.
11. Acid stimulate Drinkard formation w/ 5000 gals 15% HCl using 1.1 SG ball sealers for diversion. Release packer and knock off balls. POOH.
12. RIH w 4" injection packer and ~6500' of 2-3/8" IPC tubing. Set packer within 20' of top perf. Circulate packer fluid and test backside to 500 psi
13. Perform MIT for NM



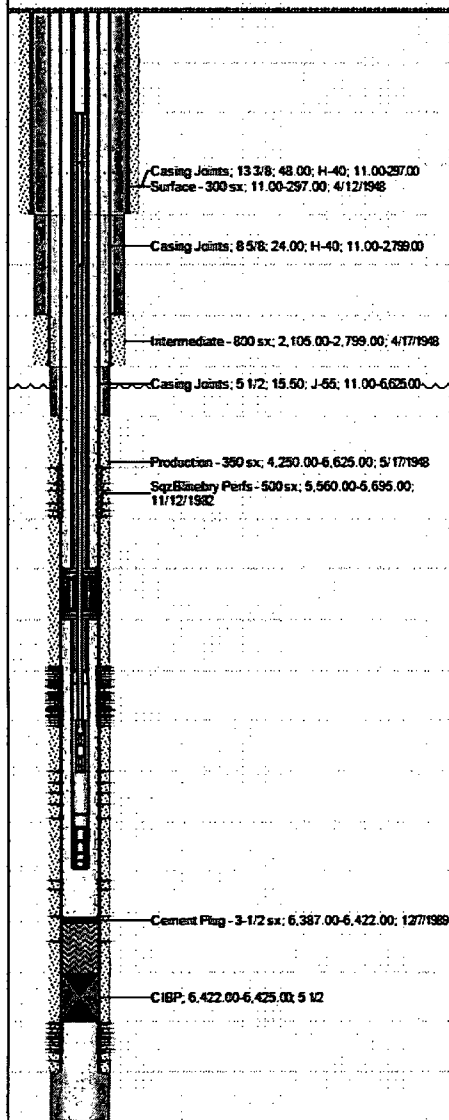


Downhole Well Profile w Cement

Well Name: NEDU 602

Production, NE DRINKARD UNIT #602 - Original Hole, 12/7/2018 9:12:25 AM

Vertical schematic (proposed)



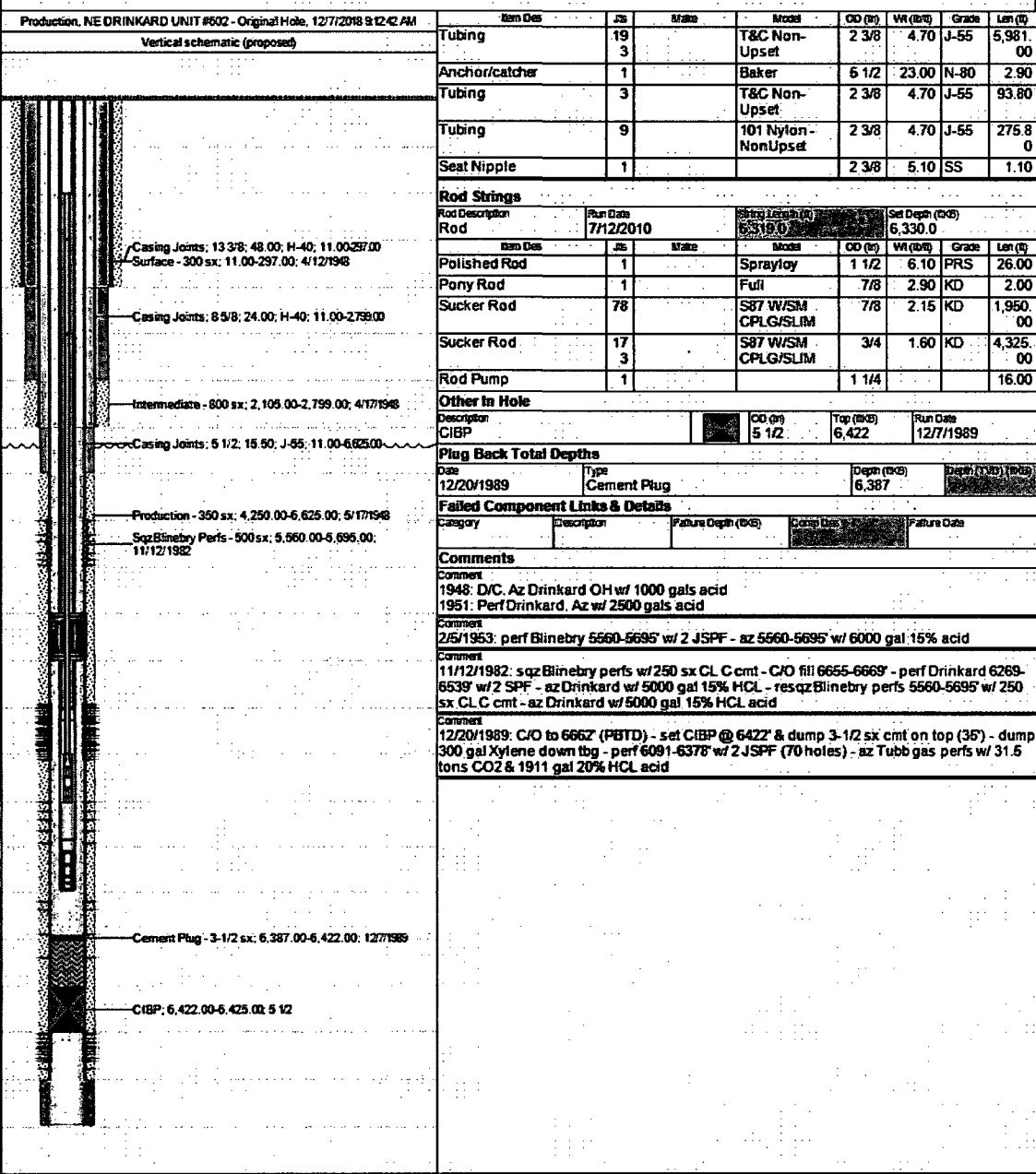
Perforations

Date	Type	Top (BGS)	Bot (BGS)	Shot Dens (shots/ft)	Entered Shot Total
12/7/1989	Tubb	6,246	6,246	2.0	2
12/7/1989	Tubb	6,258	6,258	2.0	2
12/7/1989	Tubb	6,263	6,263	2.0	2
12/7/1989	Tubb	6,268	6,268	2.0	2
11/23/1982	Tubb	6,269	6,269	2.0	2
11/23/1982	Tubb	6,274	6,274	2.0	2
11/23/1982	Tubb	6,276	6,276	2.0	2
11/23/1982	Tubb	6,278	6,278	2.0	2
11/23/1982	Tubb	6,292	6,292	2.0	2
11/12/1982	Tubb	6,295	6,295	2.0	2
12/7/1989	Tubb	6,300	6,300	2.0	2
12/7/1989	Tubb	6,303	6,303	2.0	2
11/23/1982	Tubb	6,313	6,313	2.0	2
11/23/1982	Tubb	6,315	6,315	2.0	2
11/23/1982	Tubb	6,316	6,316	2.0	2
11/23/1982	Tubb	6,330	6,330	2.0	2
11/23/1982	Tubb	6,340	6,340	2.0	2
12/7/1989	Tubb	6,349	6,349	2.0	2
11/23/1982	Tubb	6,359	6,359	2.0	2
11/23/1982	Tubb	6,371	6,371	2.0	2
12/7/1989	Tubb	6,378	6,378	2.0	2
11/23/1982	Tubb	6,380	6,380	2.0	2
11/23/1982	Tubb	6,386	6,386	2.0	2
11/23/1982	Tubb	6,401	6,401	2.0	2
11/23/1982	Tubb - Abandoned	6,430	6,430	2.0	2
11/23/1982	Drinkard - Abandoned	6,438	6,438	2.0	2
11/23/1982	Drinkard - Abandoned	6,451	6,451	2.0	2
11/23/1982	Drinkard - Abandoned	6,469	6,469	2.0	2
11/23/1982	Drinkard - Abandoned	6,478	6,478	2.0	2
11/23/1982	Drinkard - Abandoned	6,487	6,487	2.0	2
11/23/1982	Drinkard - Abandoned	6,491	6,491	2.0	2
11/23/1982	Drinkard - Abandoned	6,499	6,499	2.0	2
11/23/1982	Drinkard - Abandoned	6,507	6,507	2.0	2
11/23/1982	Drinkard - Abandoned	6,522	6,522	2.0	2
11/23/1982	Drinkard - Abandoned	6,535	6,535	2.0	2
11/23/1982	Drinkard - Abandoned	6,539	6,539	2.0	2
6/27/1951	Drinkard - Abandoned	6,550	6,565	4.0	60
6/27/1951	Drinkard - Abandoned	6,580	6,590	4.0	40

Tubing Strings

Tubing Description	Run Date	Job Name		Set Depth (BGS)			
Tubing	12/1/2001	635-110		6,375.6			
Item Des	Qty	Make	Model	OD (in)	WT (lb/ft)	Grade	Len (ft)
Tubing Sub	1			2 3/8			10.00

Well Name: NEDU 602



Scenario 1: FJ Liner Proposed WBD (Proposed Change: 1/1/19)



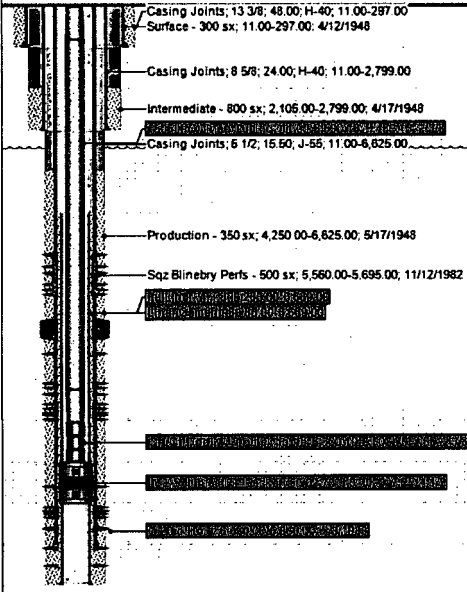
Proposed

Well Name: NEDU 602

Legal Well Name NORTHEAST DRINKARD UNIT 602		Commod Well Name NEDU 602		API Surface Loc 3002509914	
Ground Elevation (ft) 3,451.0	Original KB Elevation (ft) 3,462.0	Surface Legal Location 1980' FNL, 660' FWL, Unit E, Sec 15, T-21S, R-37E		ASD (in) (ft) 3002509914	Total Depth (ft) 6,669.0

Production, NEDRINKARD UNIT #602 - Original Hole, 12/7/2018 10:06:06 AM

Vertical schematic (proposed)



Casing Joints: 13 3/8; 48.00; H-40; 11.00-297.00
Surface - 300 sx; 11.00-297.00; 4/12/1948

Casing Joints: 8 5/8; 24.00; H-40; 11.00-2,799.00

Intermediate - 800 sx; 2,105.00-2,799.00; 4/17/1948

Casing Joints: 5 1/2; 15.50; J-55; 11.00-6,625.00

Production - 350 sx; 4,250.00-6,625.00; 5/17/1948

Sqz Blinbery Perfs - 500 sx; 5,560.00-5,695.00; 11/12/1982

Current Wellbore Sections

Section Data	Size (in)	Act Top (ft)	Act Bot (ft)	Start Date
Surface	16	11.0	297.0	4/11/1948
Inter 1	12 1/4	297.0	2,799.0	4/13/1948
Prod 1	7 7/8	2,799.0	6,669.0	4/19/1948

Casing Strings

Casing Description	String Nominal OD (in)	Weight Length (ft)	String Grade	Set Depth (ft)
Surface	13 3/8	48.00	H-40	297.00
Inter 1	12 1/4	24.00	H-40	2,799.00
Prod 1	6 1/2	15.50	J-55	6,625.00

Proposed Casing Strings

Casing Description	String Nominal OD (in)	Weight Length (ft)	String Grade	Set Depth (ft)
Prod Lnr 1	4	6.50	J-55	6,669.00

Existing Cement

String	Size	Top (ft)	Bot (ft)	Top Measurement
Surface, 297.00ftKB, 13 3/8	Primary Cement	11.00	297.00	Returns at Surface
Inter 1, 2,799.00ftKB, 8 5/8	Primary Cement	2,105.00	2,799.00	Calculated
Prod 1, 6,625.00ftKB, 5 1/2	Primary Cement	4,250.00	6,625.00	Temperature Survey
Prod 1, 6,625.00ftKB, 5 1/2	Cement Squeeze	5,560.00	5,695.00	
Prod 1, 6,625.00ftKB, 5 1/2	Cement Plug	6,387.00	6,422.00	Tag

Proposed Cement

String	Description	Top Depth (ft)	Bottom Depth (ft)	Top Measurement Method
Prod Lnr 1, 6,669.00ftKB, 4	Primary Liner Cement	5,285.00	6,669.00	Returns at Surface

Proposed Tubing String

Tubing Description	Length (ft)	OD Nominal (in)	Set Depth (ft)	Joints
Tubing - Injection			6,510.0	
150S IPC Lined Tubing	6,489.10	2 3/8		201
On/Off Tool w/ Profile Nipple	2.65	2 3/8		1
Lok-Set Injection Packer	7.25	4 1/2		1

Existing Perforations

Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Blinbery Sqzd	5,560	5,600	2.0	80
Blinbery Sqzd	5,620	5,640	2.0	40
Blinbery Sqzd	5,655	5,665	2.0	20

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Report Printed: 12/7/2018

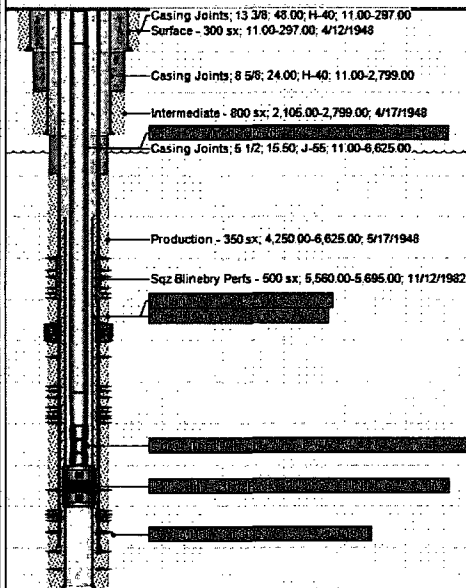
Scenario 1: FJ Liner Proposed WBD



Well Name: NEDU 602

Proposed

Production, NEDRINKARD UNIT #602 - Original Hole, 12/7/2018 10:06:22 AM
Vertical schematic (proposed)



Existing Perforations

Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Blinbery Sqz'd	5,675	5,685	2.0	20
Blinbery Sqz'd	5,690	5,695	2.0	10
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tubbs	6,091	6,091	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tubbs	6,095	6,095	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tubbs	6,095	6,095	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tubbs	6,102	6,102	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tubbs	6,105	6,105	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tubbs	6,114	6,114	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tubbs	6,119	6,119	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tubbs	6,127	6,127	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tubbs	6,141	6,141	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tubbs	6,144	6,144	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tubbs	6,148	6,148	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tubbs	6,154	6,154	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tubbs	6,161	6,161	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tubbs	6,165	6,165	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tubbs	6,169	6,169	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tubbs	6,174	6,174	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tubbs	6,178	6,178	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tubbs	6,197	6,197	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tubbs	6,200	6,200	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tubbs	6,202	6,202	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tubbs	6,210	6,210	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tubbs	6,215	6,215	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tubbs	6,220	6,220	2.0	2

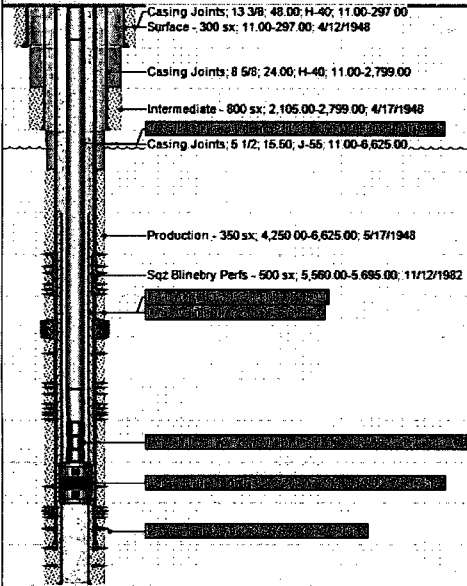
Scenario 1: FJ Liner Proposed WBD (REDACTED)



Well Name: NEDU 602

Proposed

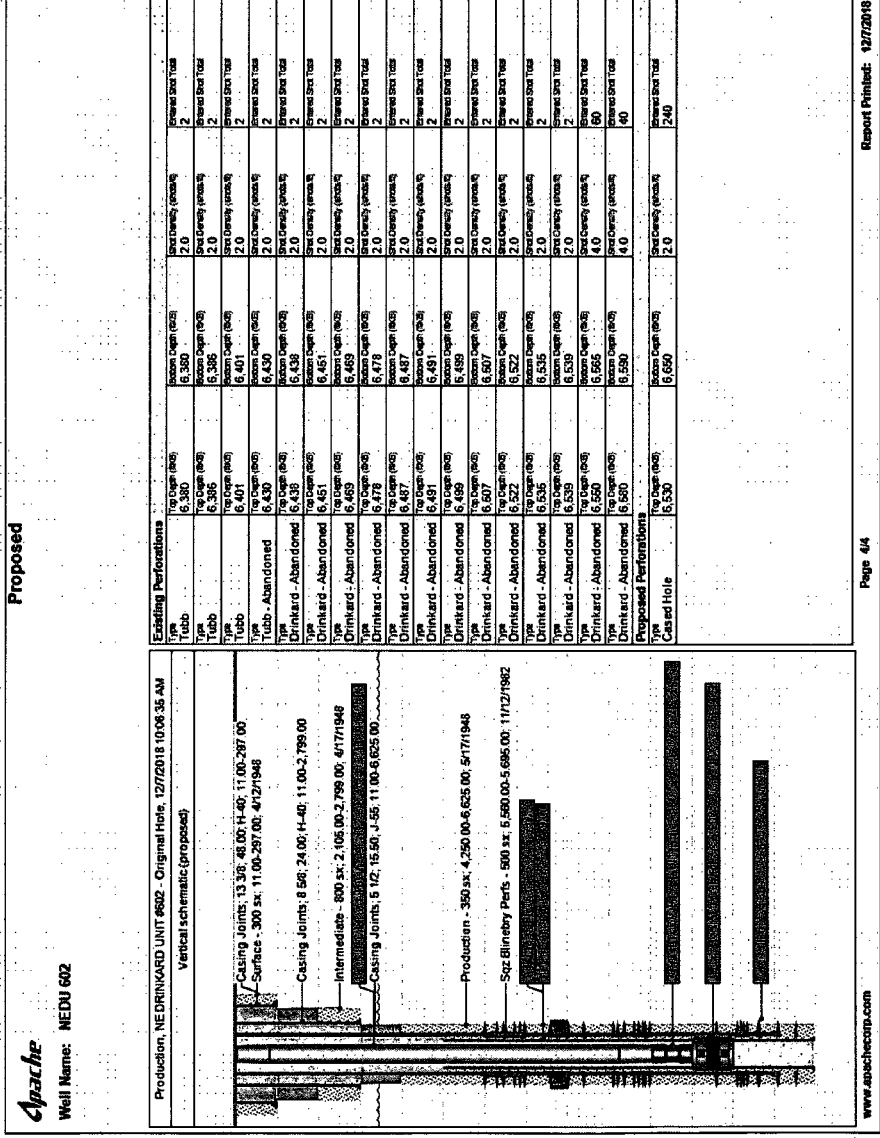
Production, NEDRINKARD UNIT #602 - Original Hole, 12/7/2018 10:06:29 AM
Vertical schematic (proposed)



Existing Performances

Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,224	6,224	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,230	6,230	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,233	6,233	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,241	6,241	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,246	6,246	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,258	6,258	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,263	6,263	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,268	6,268	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,269	6,269	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,274	6,274	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,276	6,276	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,278	6,278	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,282	6,282	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,295	6,295	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,300	6,300	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,303	6,303	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,313	6,313	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,315	6,315	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,316	6,316	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,330	6,330	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,340	6,340	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,349	6,349	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,359	6,359	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,371	6,371	2.0	2
Type	Top Depth (ft)	Bottom Depth (ft)	Shot Density (shots/ft)	Entered Shot Total
Tub	6,378	6,378	2.0	2

Scenario 1: FJ Liner Proposed WBD



Scenario 1: FJ-Liner Proposed WBD (REDACTED)

Scenario 1: FJ Liner Proposed WBD ()