

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

Form C-103  
Revised July 18, 2013

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

|                                                                                                     |
|-----------------------------------------------------------------------------------------------------|
| WELL API NO.<br>30-025-06446                                                                        |
| 5. Indicate Type of Lease<br>STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> |
| 6. State Oil & Gas Lease No.                                                                        |
| 7. Lease Name or Unit Agreement Name<br>Northeast Drinkard Unit (NEDU) / 22503                      |
| 8. Well Number 408                                                                                  |
| 9. OGRID Number<br>873                                                                              |
| 10. Pool name or Wildcat<br>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. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

|                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other Injection <input type="checkbox"/>                                                                                        |
| 2. Name of Operator<br>Apache Corporation                                                                                                                                                                            |
| 3. Address of Operator<br>303 Veterans Airpark Lane, Suite 1000 Midland, TX 79705                                                                                                                                    |
| 4. Well Location<br>Unit Letter <u>A</u> : <u>660</u> feet from the <u>North</u> line and <u>660</u> feet from the <u>East</u> line<br>Section <u>10</u> Township <u>21S</u> Range <u>37E</u> NMPM County <u>Lea</u> |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.)<br>3440' GR                                                                                                                                                       |

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

| NOTICE OF INTENTION TO:                                   |                                           | SUBSEQUENT REPORT OF:                            |                                          |
|-----------------------------------------------------------|-------------------------------------------|--------------------------------------------------|------------------------------------------|
| PERFORM REMEDIAL WORK <input checked="" type="checkbox"/> | PLUG AND ABANDON <input type="checkbox"/> | REMEDIAL WORK <input type="checkbox"/>           | ALTERING CASING <input type="checkbox"/> |
| TEMPORARILY ABANDON <input type="checkbox"/>              | CHANGE PLANS <input type="checkbox"/>     | COMMENCE DRILLING OPNS. <input type="checkbox"/> | P AND A <input type="checkbox"/>         |
| PULL OR ALTER CASING <input type="checkbox"/>             | MULTIPLE COMPL <input type="checkbox"/>   | CASING/CEMENT JOB <input type="checkbox"/>       |                                          |
| DOWNHOLE COMMINGLE <input type="checkbox"/>               |                                           |                                                  |                                          |
| CLOSED-LOOP SYSTEM <input type="checkbox"/>               |                                           |                                                  |                                          |
| OTHER: <input type="checkbox"/>                           |                                           | OTHER: <input type="checkbox"/>                  |                                          |

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 isolate the Drinkard for injection, per the attached. We are still evaluating which scenario will be the most operational and cost effective.

Spud Date:

9/30/1950

Rig Release Date:

11/26/1950

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 12/6/2018

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

12/11/18

Conditions of Approval (if any):

## **NEDU 408W: (API: 30-025-06446)**

### **OBJECTIVE: ISOLATE DRINKARD FOR INJECTION**

#### ***Scenario 1: Dual Packer Isolation***

1. POOH w 2-7/8" injection tubing and 5-1/2" injection packer (@ 5652')
2. PU workstring and RIH w bit and clean out well to PBTD at ~6745'.
3. Make casing scraper run to around 6745'. POOH.
4. Run casing inspection log and cement bond log from top of Drinkard to surface. POOH.
5. RIH to perforate Drinkard formation f/ 6600-6720'. POOH.
6. RIH w/ workstring and treating packer to acid stimulate Drinkard formation w/ 5000 gals 15% HCl using rock salt for diversion. POOH.
7. MIRU wireline. RIH w/ 5-1/2" permanent packer and set in good casing between Blinebry and Drinkard (Depth dependent on casing inspection log)
8. PU 700-800' of 2-3/8" IPC externally coated tubing w/ 5-1/2" hydraulic packer on top and tie into permanent packer. Ensure hydraulic packer is set at ~5652'. Pressure up tubing to set hydraulic packer. Test casing to 500 psi.
9. Perform MIT for NMOCD and return well on injection.

#### ***Scenario 2: Cement 4" Casing from Blinebry to TD***

1. POOH w 2-3/8" injection tubing and 5-1/2" injection packer
2. PU workstring and RIH w/ bit and clean out well to PBTD at ~6745'.
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 Paddock 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 f/6600'-6720'. POOH
10. PU 4" treating packer 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 NMOCD

| Apache                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            | Downhole Well Profile w Cement                                             |                   |                                  |                      |                    |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
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| Well Name: NEDU 408W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |                                                                            |                   |                                  |                      |                    |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| API Surface Loc<br>3002506446                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            | Surface Legal Location<br>660' FNL, 660' FEL, Unit A, Sec 10, T-21S, R-37E |                   | Field Name<br>Eunice (North) Bld |                      |                    |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| Spud Date<br>9/17/2005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            | Original KB Elevation (ft)<br>3,450.0                                      |                   | Ground Elevation (ft)<br>3,440.0 |                      |                    |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| Original Hole @ 7725'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            | Total Depth (ft)<br>7,725.0                                                |                   | Comment                          |                      |                    |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| Injection, NORTHEAST DRINKARD UNIT 408 - Original Hole, 10/24/2018 10:42:10 AM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                            |                                                                            |                   |                                  |                      |                    |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| Vertical schematic (proposed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                                                                            |                   |                                  |                      |                    |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            |                                                                            |                   |                                  |                      |                    |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| <table border="1"> <thead> <tr> <th>Casing Des</th> <th>OO (in)</th> <th>ID (in)</th> <th>WtLen (lb/ft)</th> <th>Grade</th> <th>Set Depth (ft)</th> </tr> </thead> <tbody> <tr> <td>Surface</td> <td>3 1/2</td> <td>2 7/8</td> <td>48.00</td> <td>H-40</td> <td>228.00</td> </tr> <tr> <td>Inter 1</td> <td>9 5/8</td> <td>8 1/2</td> <td>38.00</td> <td>H-40</td> <td>2,987.00</td> </tr> <tr> <td>Prod 1</td> <td>5 1/2</td> <td>4 9/16</td> <td>16.50</td> <td>K-55</td> <td>7,725.00</td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                                                                            |                   |                                  |                      | Casing Des         | OO (in)     | ID (in)        | WtLen (lb/ft)     | Grade         | Set Depth (ft)       | Surface            | 3 1/2            | 2 7/8          | 48.00  | H-40               | 228.00    | Inter 1        | 9 5/8                  | 8 1/2               | 38.00          | H-40               | 2,987.00  | Prod 1        | 5 1/2               | 4 9/16              | 16.50     | K-55           | 7,725.00  |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| Casing Des                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | OO (in)                    | ID (in)                                                                    | WtLen (lb/ft)     | Grade                            | Set Depth (ft)       |                    |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| Surface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3 1/2                      | 2 7/8                                                                      | 48.00             | H-40                             | 228.00               |                    |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| Inter 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 9 5/8                      | 8 1/2                                                                      | 38.00             | H-40                             | 2,987.00             |                    |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| Prod 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5 1/2                      | 4 9/16                                                                     | 16.50             | K-55                             | 7,725.00             |                    |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| <table border="1"> <thead> <tr> <th>Cement</th> <th>Description</th> <th>Top Depth (ft)</th> <th>Bottom Depth (ft)</th> <th>Top Meas Meth</th> <th>Start Date</th> </tr> </thead> <tbody> <tr> <td>String Surface</td> <td>Surface - 175 sx</td> <td>10.00</td> <td>228.00</td> <td>Returns at Surface</td> <td>10/2/1950</td> </tr> <tr> <td>String Inter 1</td> <td>Intermediate - 1200 sx</td> <td>2,987.00ftKB, 9 5/8</td> <td>2,987.00</td> <td>Temperature Survey</td> <td>10/3/1950</td> </tr> <tr> <td>String Prod 1</td> <td>Production - 500 sx</td> <td>7,725.00ftKB, 5 1/2</td> <td>7,725.00</td> <td>Log</td> <td>10/4/1950</td> </tr> <tr> <td>String Prod 1</td> <td>CIBP - 15 sx</td> <td>7,725.00ftKB, 5 1/2</td> <td>7,650.00</td> <td>Calculated</td> <td>3/28/1957</td> </tr> <tr> <td>String Prod 1</td> <td>Sqz Drinkard Perfs - ? sx</td> <td>7,725.00ftKB, 5 1/2</td> <td>6,675.00</td> <td></td> <td>1/8/1959</td> </tr> <tr> <td>String Prod 1</td> <td>Sqz Paddock Perfs - 150 sx</td> <td>7,725.00ftKB, 5 1/2</td> <td>5,466.00</td> <td></td> <td>4/8/1974</td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |                                                                            |                   |                                  |                      | Cement             | Description | Top Depth (ft) | Bottom Depth (ft) | Top Meas Meth | Start Date           | String Surface     | Surface - 175 sx | 10.00          | 228.00 | Returns at Surface | 10/2/1950 | String Inter 1 | Intermediate - 1200 sx | 2,987.00ftKB, 9 5/8 | 2,987.00       | Temperature Survey | 10/3/1950 | String Prod 1 | Production - 500 sx | 7,725.00ftKB, 5 1/2 | 7,725.00  | Log            | 10/4/1950 | String Prod 1 | CIBP - 15 sx | 7,725.00ftKB, 5 1/2 | 7,650.00 | Calculated | 3/28/1957      | String Prod 1 | Sqz Drinkard Perfs - ? sx | 7,725.00ftKB, 5 1/2 | 6,675.00 |    | 1/8/1959  | String Prod 1  | Sqz Paddock Perfs - 150 sx | 7,725.00ftKB, 5 1/2 | 5,466.00 |     | 4/8/1974 |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| Cement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Description                | Top Depth (ft)                                                             | Bottom Depth (ft) | Top Meas Meth                    | Start Date           |                    |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| String Surface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Surface - 175 sx           | 10.00                                                                      | 228.00            | Returns at Surface               | 10/2/1950            |                    |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| String Inter 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Intermediate - 1200 sx     | 2,987.00ftKB, 9 5/8                                                        | 2,987.00          | Temperature Survey               | 10/3/1950            |                    |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| String Prod 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Production - 500 sx        | 7,725.00ftKB, 5 1/2                                                        | 7,725.00          | Log                              | 10/4/1950            |                    |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| String Prod 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CIBP - 15 sx               | 7,725.00ftKB, 5 1/2                                                        | 7,650.00          | Calculated                       | 3/28/1957            |                    |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| String Prod 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Sqz Drinkard Perfs - ? sx  | 7,725.00ftKB, 5 1/2                                                        | 6,675.00          |                                  | 1/8/1959             |                    |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| String Prod 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Sqz Paddock Perfs - 150 sx | 7,725.00ftKB, 5 1/2                                                        | 5,466.00          |                                  | 4/8/1974             |                    |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| <table border="1"> <thead> <tr> <th>Date</th> <th>Type</th> <th>Prog?</th> <th>Top (ft)</th> <th>Bin (ft)</th> <th>Shot Dens (shots/ft)</th> <th>Entered Shot Total</th> </tr> </thead> <tbody> <tr> <td>7/31/1971</td> <td>Paddock - Sqzd</td> <td>No</td> <td>5,290</td> <td>5,316</td> <td>2.0</td> <td>52</td> </tr> <tr> <td>7/20/1970</td> <td>Paddock - Sqzd</td> <td>No</td> <td>5,346</td> <td>5,658</td> <td>2.0</td> <td>24</td> </tr> <tr> <td>7/20/1970</td> <td>Paddock - Sqzd</td> <td>No</td> <td>5,454</td> <td>5,466</td> <td>2.0</td> <td>24</td> </tr> <tr> <td>7/20/1970</td> <td>Paddock - Sqzd</td> <td>No</td> <td>5,472</td> <td>5,478</td> <td>2.0</td> <td>12</td> </tr> <tr> <td>7/20/1970</td> <td>Paddock - Sqzd</td> <td>No</td> <td>5,557</td> <td>5,564</td> <td>2.0</td> <td>14</td> </tr> <tr> <td>7/20/1970</td> <td>Paddock - Sqzd</td> <td>No</td> <td>5,572</td> <td>5,579</td> <td>2.0</td> <td>14</td> </tr> <tr> <td>7/20/1970</td> <td>Paddock - Sqzd</td> <td>No</td> <td>5,584</td> <td>5,590</td> <td>2.0</td> <td>12</td> </tr> <tr> <td>9/8/1989</td> <td>Blindbry</td> <td>No</td> <td>5,736</td> <td>5,736</td> <td>2.0</td> <td>2</td> </tr> <tr> <td>9/8/1989</td> <td>Blindbry</td> <td>No</td> <td>5,762</td> <td>5,762</td> <td>2.0</td> <td>2</td> </tr> <tr> <td>9/8/1989</td> <td>Blindbry</td> <td>No</td> <td>5,773</td> <td>5,773</td> <td>2.0</td> <td>2</td> </tr> <tr> <td>9/8/1989</td> <td>Blindbry</td> <td>No</td> <td>5,780</td> <td>5,780</td> <td>2.0</td> <td>2</td> </tr> <tr> <td>9/8/1989</td> <td>Blindbry</td> <td>No</td> <td>5,812</td> <td>5,812</td> <td>2.0</td> <td>2</td> </tr> <tr> <td>9/8/1989</td> <td>Blindbry</td> <td>No</td> <td>5,827</td> <td>5,827</td> <td>2.0</td> <td>2</td> </tr> <tr> <td>9/8/1989</td> <td>Blindbry</td> <td>No</td> <td>5,833</td> <td>5,833</td> <td>2.0</td> <td>2</td> </tr> <tr> <td>9/8/1989</td> <td>Blindbry</td> <td>No</td> <td>5,839</td> <td>5,839</td> <td>2.0</td> <td>2</td> </tr> <tr> <td>9/8/1989</td> <td>Blindbry</td> <td>No</td> <td>5,857</td> <td>5,857</td> <td>2.0</td> <td>2</td> </tr> <tr> <td>9/8/1989</td> <td>Blindbry</td> <td>No</td> <td>5,862</td> <td>5,862</td> <td>2.0</td> <td>2</td> </tr> <tr> <td>9/8/1989</td> <td>Blindbry</td> <td>No</td> <td>5,873</td> <td>5,873</td> <td>2.0</td> <td>2</td> </tr> <tr> <td>9/8/1989</td> <td>Blindbry</td> <td>No</td> <td>5,880</td> <td>5,880</td> <td>2.0</td> <td>2</td> </tr> <tr> <td>9/8/1989</td> <td>Blindbry</td> <td>No</td> <td>5,906</td> <td>5,906</td> <td>2.0</td> <td>2</td> </tr> <tr> <td>9/8/1989</td> <td>Blindbry</td> <td>No</td> <td>5,971</td> <td>5,971</td> <td>2.0</td> <td>2</td> </tr> <tr> <td>9/8/1989</td> <td>Blindbry</td> <td>No</td> <td>5,988</td> <td>5,988</td> <td>2.0</td> <td>2</td> </tr> <tr> <td>9/8/1989</td> <td>Blindbry</td> <td>No</td> <td>6,035</td> <td>6,035</td> <td>2.0</td> <td>2</td> </tr> </tbody> </table> |                            |                                                                            |                   |                                  |                      | Date               | Type        | Prog?          | Top (ft)          | Bin (ft)      | Shot Dens (shots/ft) | Entered Shot Total | 7/31/1971        | Paddock - Sqzd | No     | 5,290              | 5,316     | 2.0            | 52                     | 7/20/1970           | Paddock - Sqzd | No                 | 5,346     | 5,658         | 2.0                 | 24                  | 7/20/1970 | Paddock - Sqzd | No        | 5,454         | 5,466        | 2.0                 | 24       | 7/20/1970  | Paddock - Sqzd | No            | 5,472                     | 5,478               | 2.0      | 12 | 7/20/1970 | Paddock - Sqzd | No                         | 5,557               | 5,564    | 2.0 | 14       | 7/20/1970 | Paddock - Sqzd | No | 5,572 | 5,579 | 2.0 | 14 | 7/20/1970 | Paddock - Sqzd | No | 5,584 | 5,590 | 2.0 | 12 | 9/8/1989 | Blindbry | No | 5,736 | 5,736 | 2.0 | 2 | 9/8/1989 | Blindbry | No | 5,762 | 5,762 | 2.0 | 2 | 9/8/1989 | Blindbry | No | 5,773 | 5,773 | 2.0 | 2 | 9/8/1989 | Blindbry | No | 5,780 | 5,780 | 2.0 | 2 | 9/8/1989 | Blindbry | No | 5,812 | 5,812 | 2.0 | 2 | 9/8/1989 | Blindbry | No | 5,827 | 5,827 | 2.0 | 2 | 9/8/1989 | Blindbry | No | 5,833 | 5,833 | 2.0 | 2 | 9/8/1989 | Blindbry | No | 5,839 | 5,839 | 2.0 | 2 | 9/8/1989 | Blindbry | No | 5,857 | 5,857 | 2.0 | 2 | 9/8/1989 | Blindbry | No | 5,862 | 5,862 | 2.0 | 2 | 9/8/1989 | Blindbry | No | 5,873 | 5,873 | 2.0 | 2 | 9/8/1989 | Blindbry | No | 5,880 | 5,880 | 2.0 | 2 | 9/8/1989 | Blindbry | No | 5,906 | 5,906 | 2.0 | 2 | 9/8/1989 | Blindbry | No | 5,971 | 5,971 | 2.0 | 2 | 9/8/1989 | Blindbry | No | 5,988 | 5,988 | 2.0 | 2 | 9/8/1989 | Blindbry | No | 6,035 | 6,035 | 2.0 | 2 |
| Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Type                       | Prog?                                                                      | Top (ft)          | Bin (ft)                         | Shot Dens (shots/ft) | Entered Shot Total |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| 7/31/1971                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Paddock - Sqzd             | No                                                                         | 5,290             | 5,316                            | 2.0                  | 52                 |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| 7/20/1970                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Paddock - Sqzd             | No                                                                         | 5,346             | 5,658                            | 2.0                  | 24                 |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| 7/20/1970                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Paddock - Sqzd             | No                                                                         | 5,454             | 5,466                            | 2.0                  | 24                 |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| 7/20/1970                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Paddock - Sqzd             | No                                                                         | 5,472             | 5,478                            | 2.0                  | 12                 |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| 7/20/1970                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Paddock - Sqzd             | No                                                                         | 5,557             | 5,564                            | 2.0                  | 14                 |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| 7/20/1970                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Paddock - Sqzd             | No                                                                         | 5,572             | 5,579                            | 2.0                  | 14                 |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| 7/20/1970                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Paddock - Sqzd             | No                                                                         | 5,584             | 5,590                            | 2.0                  | 12                 |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| 9/8/1989                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Blindbry                   | No                                                                         | 5,736             | 5,736                            | 2.0                  | 2                  |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| 9/8/1989                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Blindbry                   | No                                                                         | 5,762             | 5,762                            | 2.0                  | 2                  |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| 9/8/1989                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Blindbry                   | No                                                                         | 5,773             | 5,773                            | 2.0                  | 2                  |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| 9/8/1989                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Blindbry                   | No                                                                         | 5,780             | 5,780                            | 2.0                  | 2                  |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| 9/8/1989                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Blindbry                   | No                                                                         | 5,812             | 5,812                            | 2.0                  | 2                  |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| 9/8/1989                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Blindbry                   | No                                                                         | 5,827             | 5,827                            | 2.0                  | 2                  |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| 9/8/1989                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Blindbry                   | No                                                                         | 5,833             | 5,833                            | 2.0                  | 2                  |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| 9/8/1989                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Blindbry                   | No                                                                         | 5,839             | 5,839                            | 2.0                  | 2                  |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| 9/8/1989                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Blindbry                   | No                                                                         | 5,857             | 5,857                            | 2.0                  | 2                  |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| 9/8/1989                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Blindbry                   | No                                                                         | 5,862             | 5,862                            | 2.0                  | 2                  |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| 9/8/1989                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Blindbry                   | No                                                                         | 5,873             | 5,873                            | 2.0                  | 2                  |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| 9/8/1989                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Blindbry                   | No                                                                         | 5,880             | 5,880                            | 2.0                  | 2                  |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| 9/8/1989                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Blindbry                   | No                                                                         | 5,906             | 5,906                            | 2.0                  | 2                  |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| 9/8/1989                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Blindbry                   | No                                                                         | 5,971             | 5,971                            | 2.0                  | 2                  |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| 9/8/1989                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Blindbry                   | No                                                                         | 5,988             | 5,988                            | 2.0                  | 2                  |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| 9/8/1989                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Blindbry                   | No                                                                         | 6,035             | 6,035                            | 2.0                  | 2                  |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |
| Des. Open Hole @ 7725-7875' Depth MD: 7,800.00 ft<br>Date: 9/17/2005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |                                                                            |                   |                                  |                      |                    |             |                |                   |               |                      |                    |                  |                |        |                    |           |                |                        |                     |                |                    |           |               |                     |                     |           |                |           |               |              |                     |          |            |                |               |                           |                     |          |    |           |                |                            |                     |          |     |          |           |                |    |       |       |     |    |           |                |    |       |       |     |    |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |          |          |    |       |       |     |   |

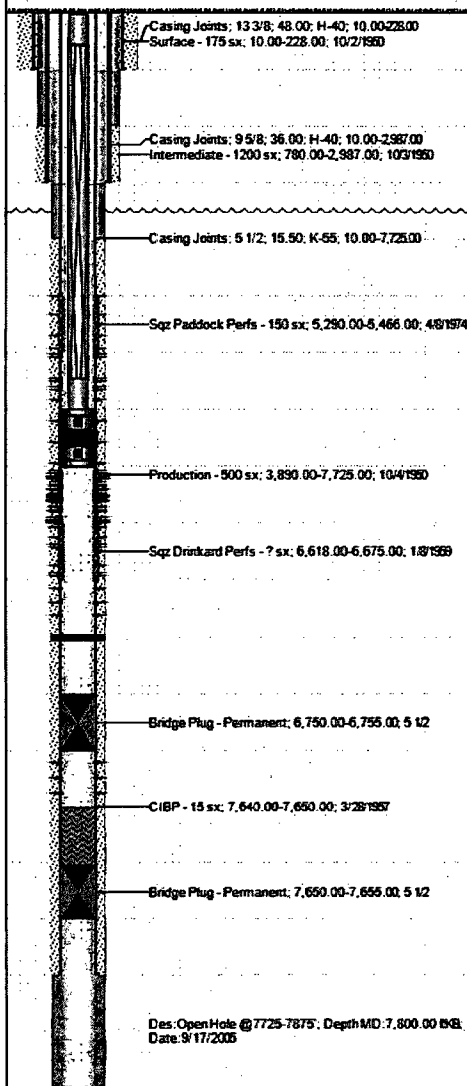


## Downhole Well Profile w Cement

Well Name: NEDU 408W

Injection, NORTHEAST DRINKARD UNIT 408 - Original Hole, 10/24/2018 10:49:21 AM

Vertical schematic (proposed)

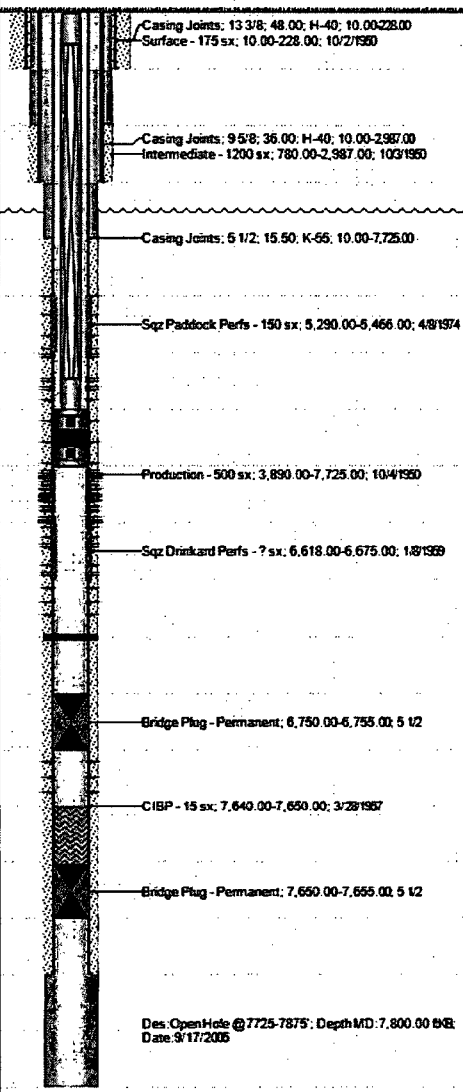


## Perforations

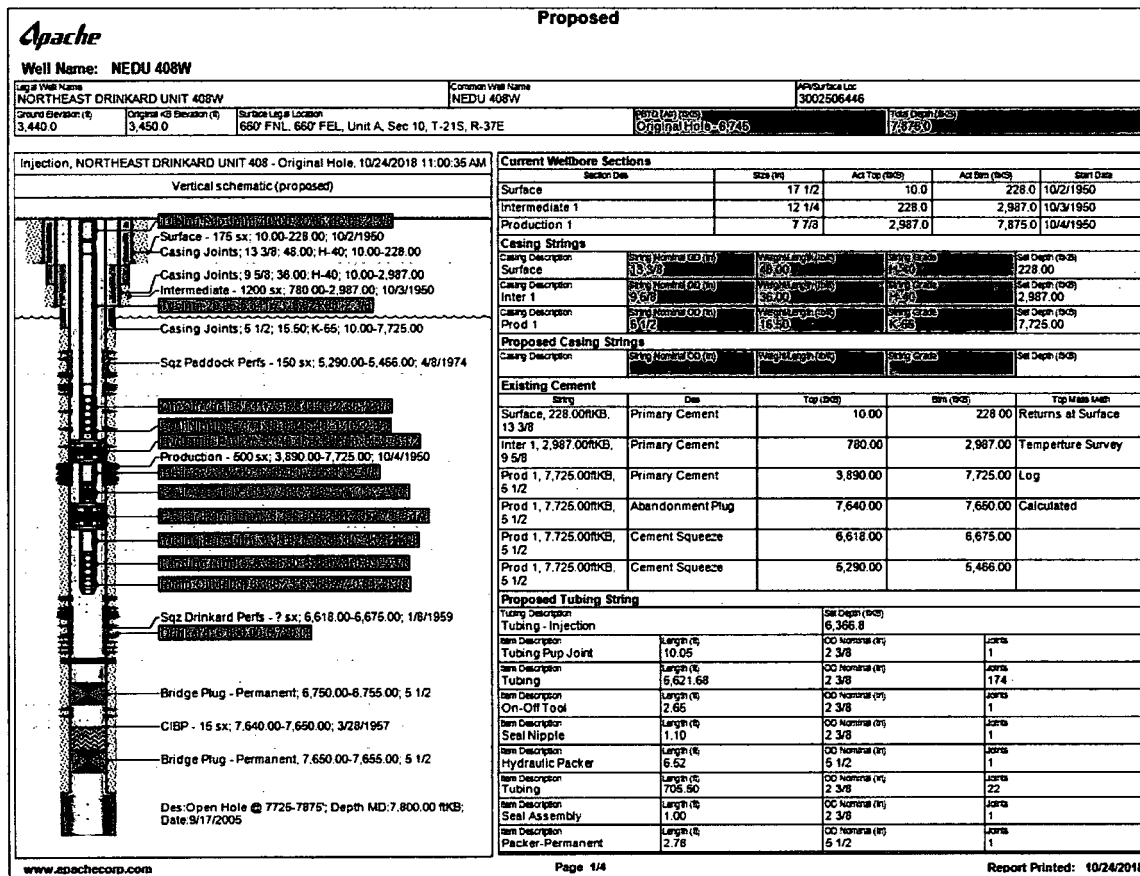
| Date      | Type            | Prop? | Top (ft) | Bin (ft) | Shot Dens (shots/ft) | Entered Shot Total |
|-----------|-----------------|-------|----------|----------|----------------------|--------------------|
| 9/8/1989  | Blinbry         | No    | 6,040    | 6,040    | 2.0                  | 2                  |
| 9/8/1989  | Blinbry         | No    | 6,049    | 6,049    | 2.0                  | 2                  |
| 9/8/1989  | Blinbry         | No    | 6,054    | 6,054    | 2.0                  | 2                  |
| 9/8/1989  | Tubb            | No    | 6,110    | 6,110    | 2.0                  | 2                  |
| 9/8/1989  | Tubb            | No    | 6,136    | 6,136    | 2.0                  | 2                  |
| 9/8/1989  | Tubb            | No    | 6,139    | 6,139    | 2.0                  | 2                  |
| 9/8/1989  | Tubb            | No    | 6,153    | 6,153    | 2.0                  | 2                  |
| 9/8/1989  | Tubb            | No    | 6,162    | 6,162    | 2.0                  | 2                  |
| 9/8/1989  | Tubb            | No    | 6,172    | 6,172    | 2.0                  | 2                  |
| 9/8/1989  | Tubb            | No    | 6,178    | 6,178    | 2.0                  | 2                  |
| 9/8/1989  | Tubb            | No    | 6,218    | 6,218    | 2.0                  | 2                  |
| 9/8/1989  | Tubb            | No    | 6,223    | 6,223    | 2.0                  | 2                  |
| 9/8/1989  | Tubb            | No    | 6,229    | 6,229    | 2.0                  | 2                  |
| 9/8/1989  | Tubb            | No    | 6,236    | 6,236    | 2.0                  | 2                  |
| 9/8/1989  | Tubb            | No    | 6,255    | 6,255    | 2.0                  | 2                  |
| 9/8/1989  | Tubb            | No    | 6,259    | 6,259    | 2.0                  | 2                  |
| 9/8/1989  | Tubb            | No    | 6,325    | 6,325    | 2.0                  | 2                  |
| 9/8/1989  | Tubb            | No    | 6,356    | 6,356    | 2.0                  | 2                  |
| 9/8/1989  | Tubb            | No    | 6,395    | 6,395    | 2.0                  | 2                  |
| 9/8/1989  | Tubb            | No    | 6,417    | 6,417    | 2.0                  | 2                  |
| 9/8/1989  | Drinkard        | No    | 6,516    | 6,516    | 2.0                  | 2                  |
| 4/8/1974  | Drinkard        | No    | 6,530    | 6,550    | 2.0                  | 40                 |
| 9/8/1989  | Drinkard        | No    | 6,560    | 6,560    | 2.0                  | 2                  |
| 9/8/1989  | Drinkard        | No    | 6,565    | 6,565    | 2.0                  | 2                  |
| 9/8/1989  | Drinkard        | No    | 6,577    | 6,577    | 2.0                  | 2                  |
| 9/8/1989  | Drinkard        | No    | 6,586    | 6,586    | 2.0                  | 2                  |
| 4/8/1974  | Drinkard        | No    | 6,592    | 6,598    | 2.0                  | 12                 |
| 9/8/1989  | Drinkard        | No    | 6,607    | 6,607    | 2.0                  | 2                  |
| 9/8/1989  | Drinkard        | No    | 6,614    | 6,614    | 2.0                  | 2                  |
| 9/8/1989  | Drinkard        | No    | 6,617    | 6,617    | 2.0                  | 2                  |
| 3/29/1957 | Drinkard - Sqzd | No    | 6,618    | 6,632    | 4.0                  | 56                 |
| 4/8/1974  | Drinkard        | No    | 6,622    | 6,632    | 2.0                  | 20                 |
| 3/29/1957 | Drinkard - Sqzd | No    | 6,640    | 6,660    | 2.0                  | 80                 |
| 4/8/1974  | Drinkard        | No    | 6,642    | 6,650    | 2.0                  | 16                 |
| 3/29/1957 | Drinkard - Sqzd | No    | 6,668    | 6,675    | 2.0                  | 28                 |
| 4/8/1974  | Drinkard        | No    | 6,670    | 6,678    | 2.0                  | 16                 |
| 4/8/1974  | Drinkard        | No    | 6,684    | 6,696    | 2.0                  | 24                 |
| 4/8/1974  | Drinkard        | No    | 6,702    | 6,714    | 2.0                  | 24                 |
| 9/8/1989  | Drinkard        | No    | 6,717    | 6,717    | 2.0                  | 2                  |
| 7/29/1959 | Abo - Abandoned | No    | 6,935    | 7,030    | 4.0                  | 100                |
| 1/9/1959  | Abo - Abandoned | No    | 7,185    | 7,390    | 4.0                  | 268                |

## Tubing Strings

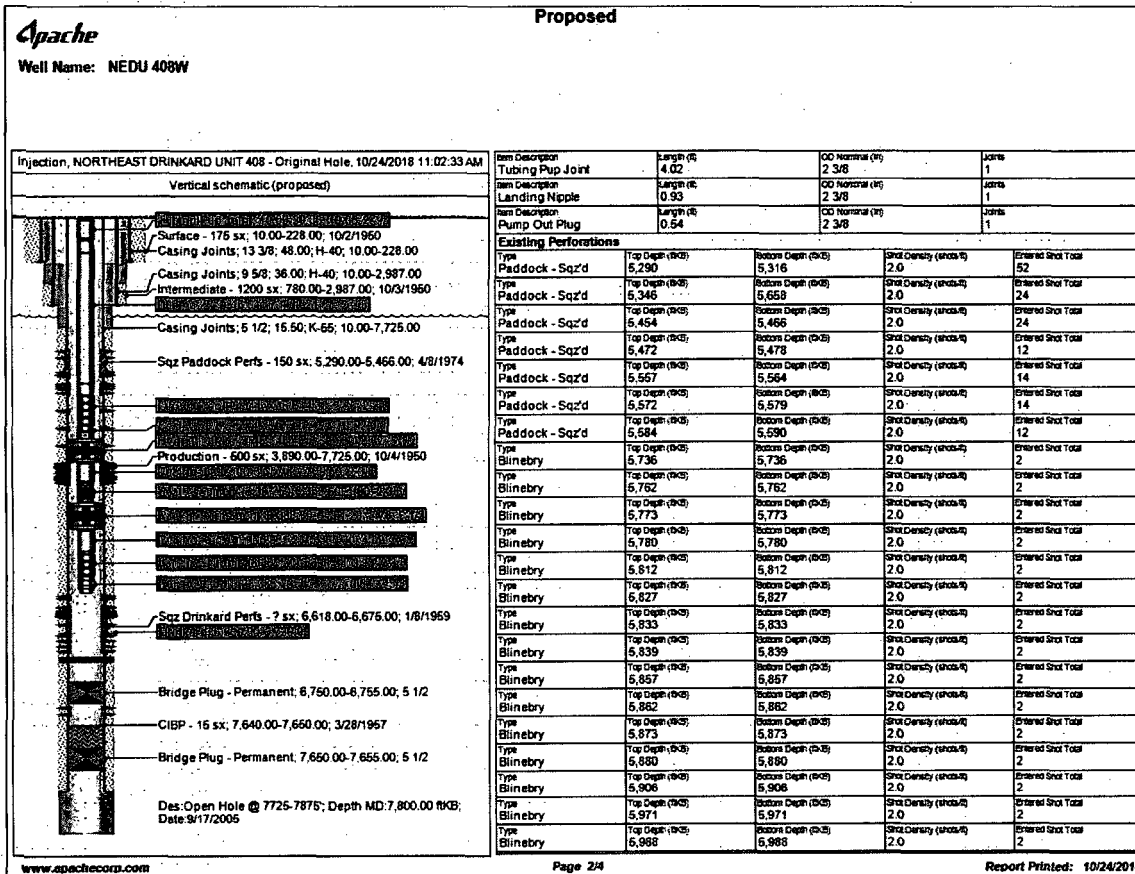
|                    |           |                 |       |                |            |       |          |
|--------------------|-----------|-----------------|-------|----------------|------------|-------|----------|
| Tubing Description | Run Date  | Tubing Location |       | Set Depth (ft) |            |       |          |
| Tubing             | 9/14/2015 | 5,652.15        |       | 5,652.1        |            |       |          |
| Item Des           | JIS       | Make            | Model | OD (in)        | WT (lb/ft) | Grade | Len (ft) |
| Fibertine Tubing   | 17 5      |                 |       | 2 7/8          |            | J-55  | 5,635.15 |
| AS-1X Packer       | 1         |                 |       | 5 1/2          |            |       | 7.25     |

|  <b>Downhole Well Profile w Cement</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                    |                 |              |                         |       |       |           |                         |       |       |          |      |      |            |                 |  |             |       |  |          |             |                    |            |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------|-----------------|--------------|-------------------------|-------|-------|-----------|-------------------------|-------|-------|----------|------|------|------------|-----------------|--|-------------|-------|--|----------|-------------|--------------------|------------|--------------|
| Well Name: <b>NEDU 408W</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                    |                 |              |                         |       |       |           |                         |       |       |          |      |      |            |                 |  |             |       |  |          |             |                    |            |              |
| Injection, NORTHEAST DRINKARD UNIT 408 - Original Hole, 10/24/2018 10:43:31 AM<br>Vertical schematic (proposed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                    |                 |              |                         |       |       |           |                         |       |       |          |      |      |            |                 |  |             |       |  |          |             |                    |            |              |
|  <p>             Casing Joints: 13 3/8; 48.00; H-40; 10.00-228.00<br/>             Surface - 175 sx; 10.00-228.00; 10/2/1960<br/> <br/>             Casing Joints: 9 5/8; 36.00; H-40; 10.00-2987.00<br/>             Intermediate - 1200 sx; 780.00-2,987.00; 10/3/1960<br/> <br/>             Casing Joints: 5 1/2; 15.50; K-55; 10.00-7,725.00<br/> <br/>             Sqr Paddock Perfs - 150 sx; 5,290.00-5,466.00; 4/8/1974<br/> <br/>             Production - 500 sx; 3,890.00-7,725.00; 10/4/1960<br/> <br/>             Sqr Drinkard Perfs - ? sx; 6,618.00-6,675.00; 1/8/1969<br/> <br/>             Bridge Plug - Permanent; 6,750.00-6,755.00; 5 1/2<br/> <br/>             CIBP - 15 sx; 7,640.00-7,650.00; 3/28/1967<br/> <br/>             Bridge Plug - Permanent; 7,650.00-7,655.00; 5 1/2<br/> <br/>             Des. Open Hole @ 7725-7875'; Depth MD: 7,800.00 B&amp;B;<br/>             Date: 9/17/2005           </p> | <b>Other In Hole</b><br><table border="1"> <thead> <tr> <th>Description</th> <th>OD (in)</th> <th>Top (BGS)</th> <th>Run Date</th> </tr> </thead> <tbody> <tr> <td>Bridge Plug - Permanent</td> <td>5 1/2</td> <td>7,650</td> <td>3/28/1957</td> </tr> <tr> <td>Bridge Plug - Permanent</td> <td>5 1/2</td> <td>6,750</td> <td>4/8/1974</td> </tr> </tbody> </table> <b>Plug Back Total Depths</b><br><table border="1"> <thead> <tr> <th>Date</th> <th>Type</th> <th>Depth (ft)</th> <th>Depth (MD) (ft)</th> </tr> </thead> <tbody> <tr> <td></td> <td>Cement Plug</td> <td>6,745</td> <td></td> </tr> </tbody> </table> <b>Failed Component Links &amp; Details</b><br><table border="1"> <thead> <tr> <th>Category</th> <th>Description</th> <th>Failure Depth (ft)</th> <th>Comp. Des.</th> <th>Failure Date</th> </tr> </thead> <tbody> </tbody> </table> <b>Comments</b><br>Comment<br>12/22/1950: initial completion - az 4000 gal 15% acid<br>Comment<br>3/27/1957: abandon Ellenburger - recomplete Drinkard 6618-6675<br>Comment<br>1/16/1959: sqz'd Drinkard 6618-6675' - perf Abo 7185-7390' - az w/ 14,000 gal<br>Comment<br>7/30/1959: perf Abo 6935-7030' - az w/ 5000 ga<br>Comment<br>7/27/1970: perf Paddock 5346-5590' - az w/ 4000 gal<br>Comment<br>7/31/1971: perf 5290-5316' - az w/ 2000 gal (abandon Paddock)<br>Comment<br>7/14/1974: sqz perfs 5290-5466' - perf 6530-6714' - az w/ 6500 gal - frac w/ 40,000 gal, 60,000# sand<br>Comment<br>1/19/1982: az w/ 500 gal 15% NEA - pump 2 drums scale inhibitor<br>Comment<br>9/6/1989: C/O to 6745' - perf BTD 5736-6717' w/ 2 JSPF - az perfs 5736-6717' w/ 11,550 gal 15% HCL + 2250# RS<br>Comment<br>10/19/1998: convert to WIW | Description | OD (in)            | Top (BGS)       | Run Date     | Bridge Plug - Permanent | 5 1/2 | 7,650 | 3/28/1957 | Bridge Plug - Permanent | 5 1/2 | 6,750 | 4/8/1974 | Date | Type | Depth (ft) | Depth (MD) (ft) |  | Cement Plug | 6,745 |  | Category | Description | Failure Depth (ft) | Comp. Des. | Failure Date |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | OD (in)     | Top (BGS)          | Run Date        |              |                         |       |       |           |                         |       |       |          |      |      |            |                 |  |             |       |  |          |             |                    |            |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Bridge Plug - Permanent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5 1/2       | 7,650              | 3/28/1957       |              |                         |       |       |           |                         |       |       |          |      |      |            |                 |  |             |       |  |          |             |                    |            |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Bridge Plug - Permanent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5 1/2       | 6,750              | 4/8/1974        |              |                         |       |       |           |                         |       |       |          |      |      |            |                 |  |             |       |  |          |             |                    |            |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Type        | Depth (ft)         | Depth (MD) (ft) |              |                         |       |       |           |                         |       |       |          |      |      |            |                 |  |             |       |  |          |             |                    |            |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Cement Plug | 6,745              |                 |              |                         |       |       |           |                         |       |       |          |      |      |            |                 |  |             |       |  |          |             |                    |            |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Description | Failure Depth (ft) | Comp. Des.      | Failure Date |                         |       |       |           |                         |       |       |          |      |      |            |                 |  |             |       |  |          |             |                    |            |              |

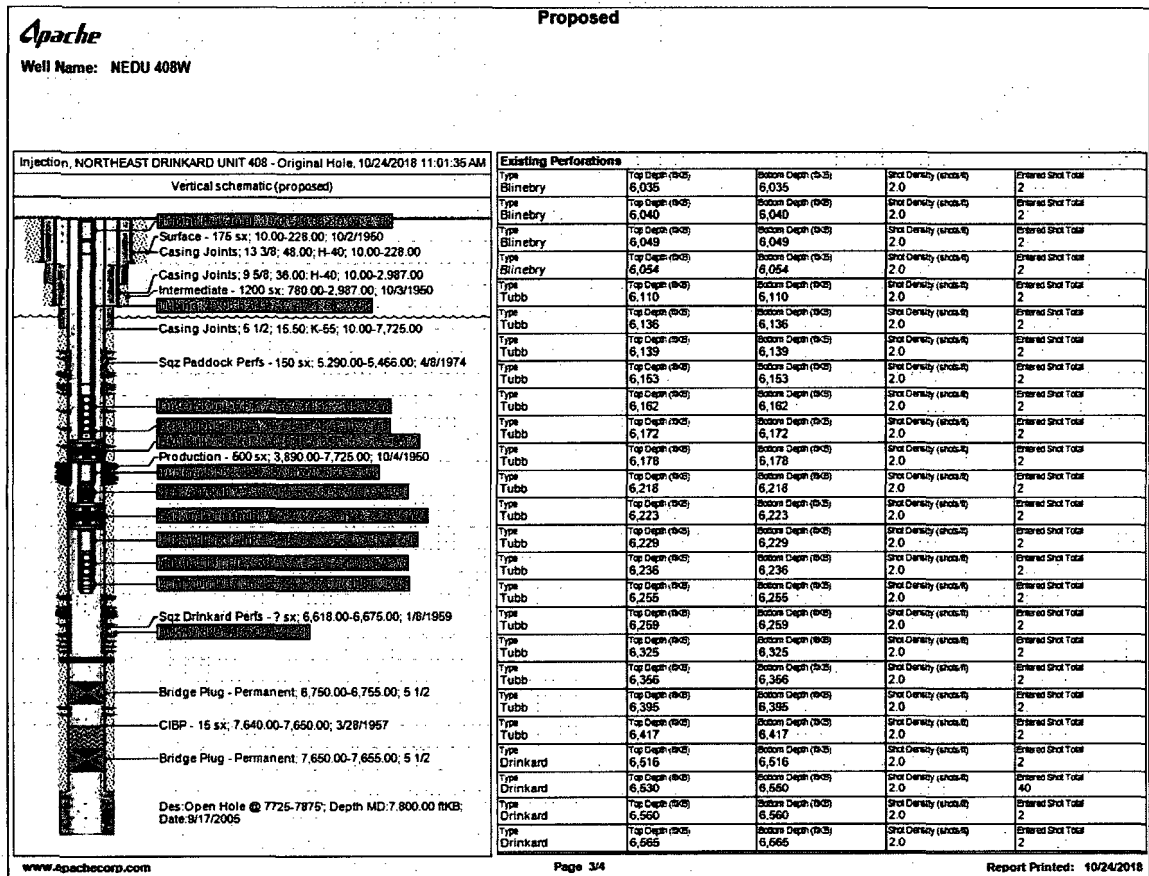
Scenario 1: Dual Packer Proposed WBD (Proposed Changes in Yellow)



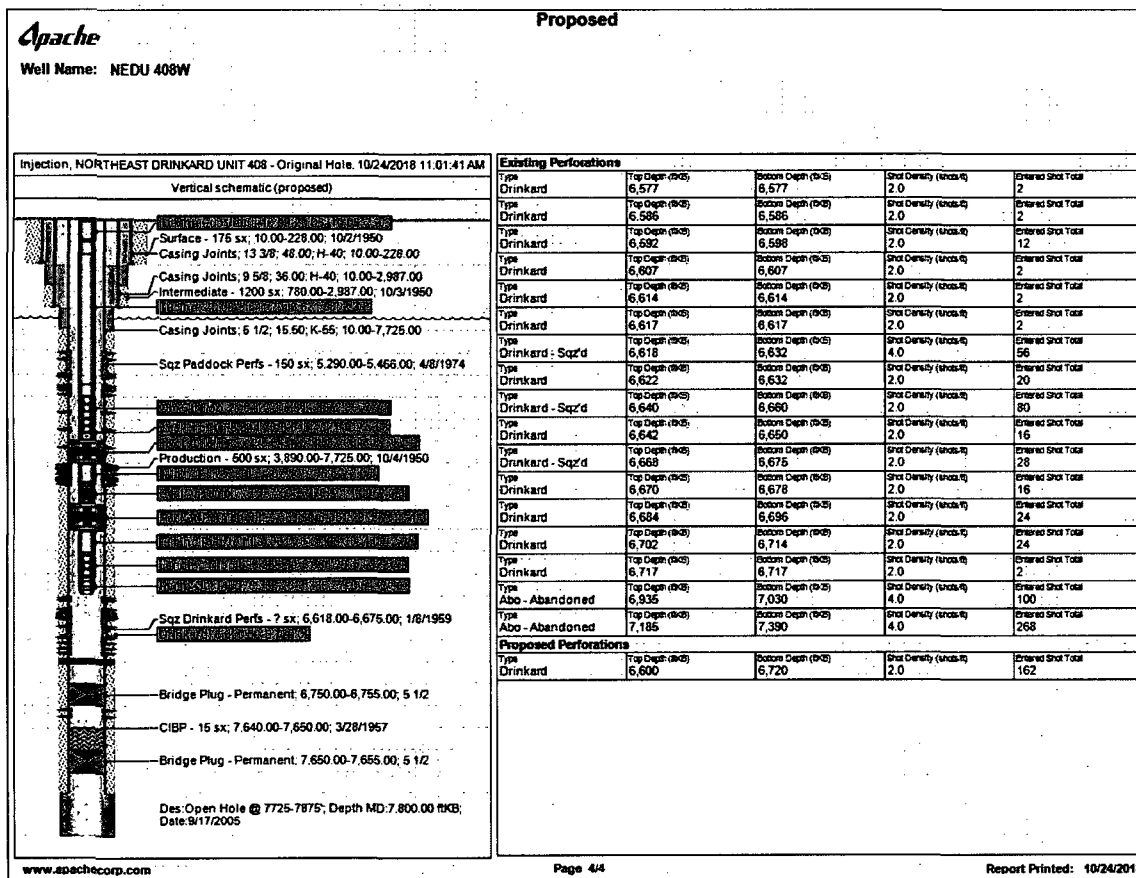
Scenario 1: Dual Packer Proposed WBD



# Scenario 1: Dual Packer Proposed WBD



Scenario 1: Dual Packer Proposed WBD (Non-Production)



Scenario 2: FJ Liner Proposed WBD ( )

**Apache**

**Well Name: NEDU 408W**

Legal Well Name: NORTHEAST DRINKARD UNIT 408W

Ground Elevation (ft): 3,440.0

Original KID Elevation (ft): 3,450.0

Surface Log # Location: 660' FNL, 660' FEL, Unit A, Sec 10, T-21S, R-37E

**Proposed**

Current Well Name: NEDU 408W

APV Surface Loc: 3002506446

Prop (A) Desc: Original Hole 2-27-15

Injection, NORTHEAST DRINKARD UNIT 408 - Original Hole, 10/24/2018 11:10:44 AM

Vertical schematic (proposed)

Surface - 175 sx; 10 00-228.00; 10/2/1950

Casing Joints: 13 3/8; 48.00; H-40; 10 00-228.00

Casing Joints: 9 5/8; 36.00; H-40; 10 00-2,987.00

Intermediate - 1200 sx; 780.00-2,987.00; 10/3/1950

Casing Joints: 5 1/2; 15.50; K-55; 10 00-7,725.00

Sez Paddock Perfs - 150 sx; 5,290.00-5,466.00; 4/8/1974

Production - 500 sx; 3,890.00-7,725.00; 10/4/1950

Sez Drinkard Perfs - 7 sx; 6,618.00-6,755.00; 1/8/1959

Bridge Plug - Permanent; 6,750.00-6,755.00; 5 1/2

CIBP - 15 sx; 7,640.00-7,660.00; 3/28/1957

Bridge Plug - Permanent; 7,650.00-7,655.00; 5 1/2

Des Open Hole @ 7725-7875'; Depth MD: 7,800.00 ftKB; Date 9/17/2005

**Current Wellbore Sections**

| Section Desc   | Size (in) | Act Top (ftKB) | Act Btm (ftKB) | Start Date |
|----------------|-----------|----------------|----------------|------------|
| Surface        | 17 1/2    | 10.0           | 228.0          | 10/2/1950  |
| Intermediate 1 | 12 1/4    | 228.0          | 2,987.0        | 10/3/1950  |
| Production 1   | 7 7/8     | 2,987.0        | 7,875.0        | 10/4/1950  |

**Casing Strings**

| Casing Description | Size (in) | Length (ft) | Set Depth (ftKB) |
|--------------------|-----------|-------------|------------------|
| Surface            | 13 3/8    | 120.00      | 228.00           |
| Intermediate       | 9 5/8     | 2,987.00    | 2,987.00         |
| Prod 1             | 5 1/2     | 7,725.00    | 7,725.00         |

**Proposed Casing Strings**

| Casing Description | Size (in) | Length (ft) | Set Depth (ftKB) |
|--------------------|-----------|-------------|------------------|
| Prod Lnr 1         | 5 1/2     | 2,150.00    | 6,745.00         |

**Existing Cement**

| String                       | Desc             | Top (ftKB) | Btm (ftKB) | Top Meas Method    |
|------------------------------|------------------|------------|------------|--------------------|
| Surface, 228.00ftKB, 13 3/8  | Primary Cement   | 10.00      | 228.00     | Returns at Surface |
| Inter 1, 2,987.00ftKB, 9 5/8 | Primary Cement   | 780.00     | 2,987.00   | Temperature Survey |
| Prod 1, 7,725.00ftKB, 5 1/2  | Primary Cement   | 3,890.00   | 7,725.00   | Log                |
| Prod 1, 7,725.00ftKB, 5 1/2  | Abandonment Plug | 7,640.00   | 7,650.00   | Calculated         |
| Prod 1, 7,725.00ftKB, 5 1/2  | Cement Squeeze   | 6,618.00   | 6,675.00   |                    |
| Prod 1, 7,725.00ftKB, 5 1/2  | Cement Squeeze   | 5,290.00   | 5,466.00   |                    |

**Proposed Cement**

| String                      | Description          | Top Depth (ftKB) | Bottom Depth (ftKB) | Top Measurement Method |
|-----------------------------|----------------------|------------------|---------------------|------------------------|
| Prod Lnr 1, 6,745.00ftKB, 4 | Primary Liner Cement | 5,015.00         | 6,745.00            | Returns at Surface     |

**Proposed Tubing String**

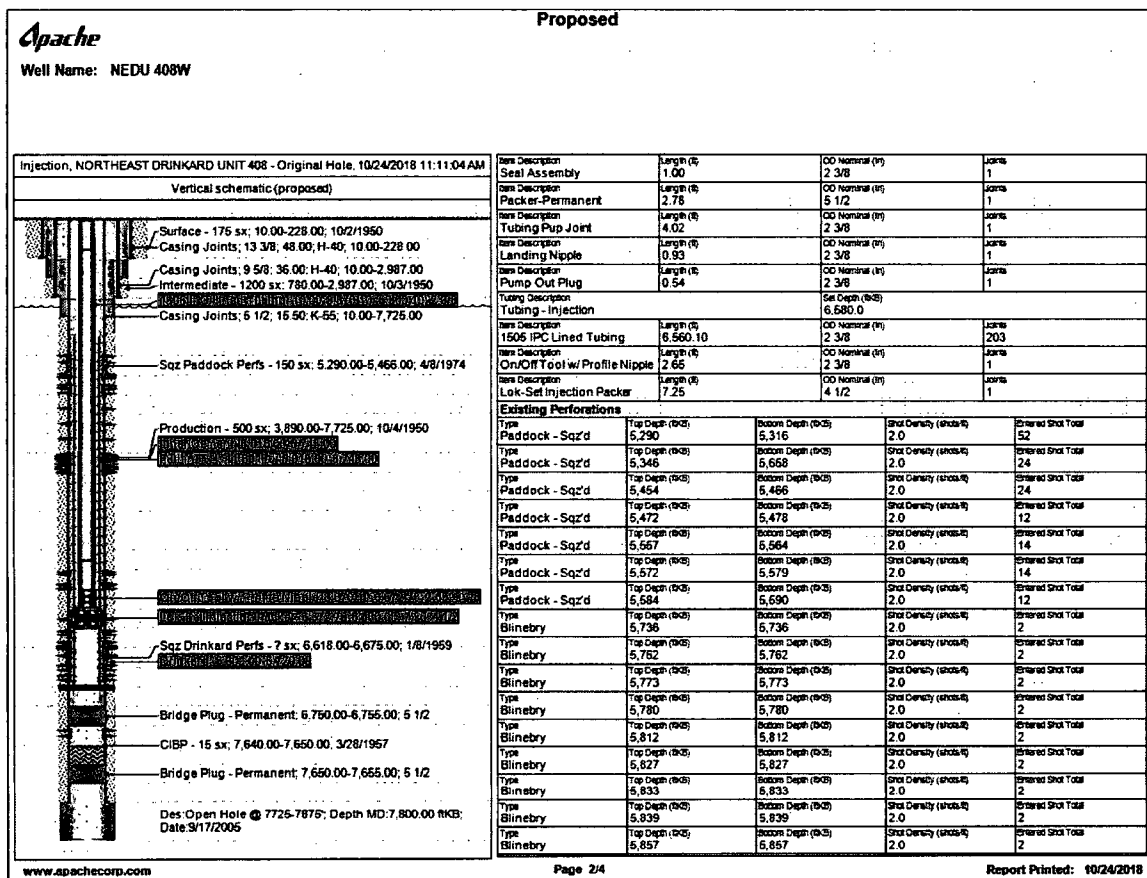
| Tubing Description | Length (ft) | Set Depth (ftKB) | JOBS |
|--------------------|-------------|------------------|------|
| Tubing - Injection | 10.05       | 6,366.8          | 1    |
| Tubing Pop Joint   | 5.621.68    | 2 3/8            | 174  |
| On-Off Tool        | 2.65        | 2 3/8            | 1    |
| Seal Nipple        | 1.10        | 2 3/8            | 1    |
| Hydraulic Packer   | 6.50        | 5 1/2            | 1    |
| Tubing             | 706.50      | 2 3/8            | 22   |

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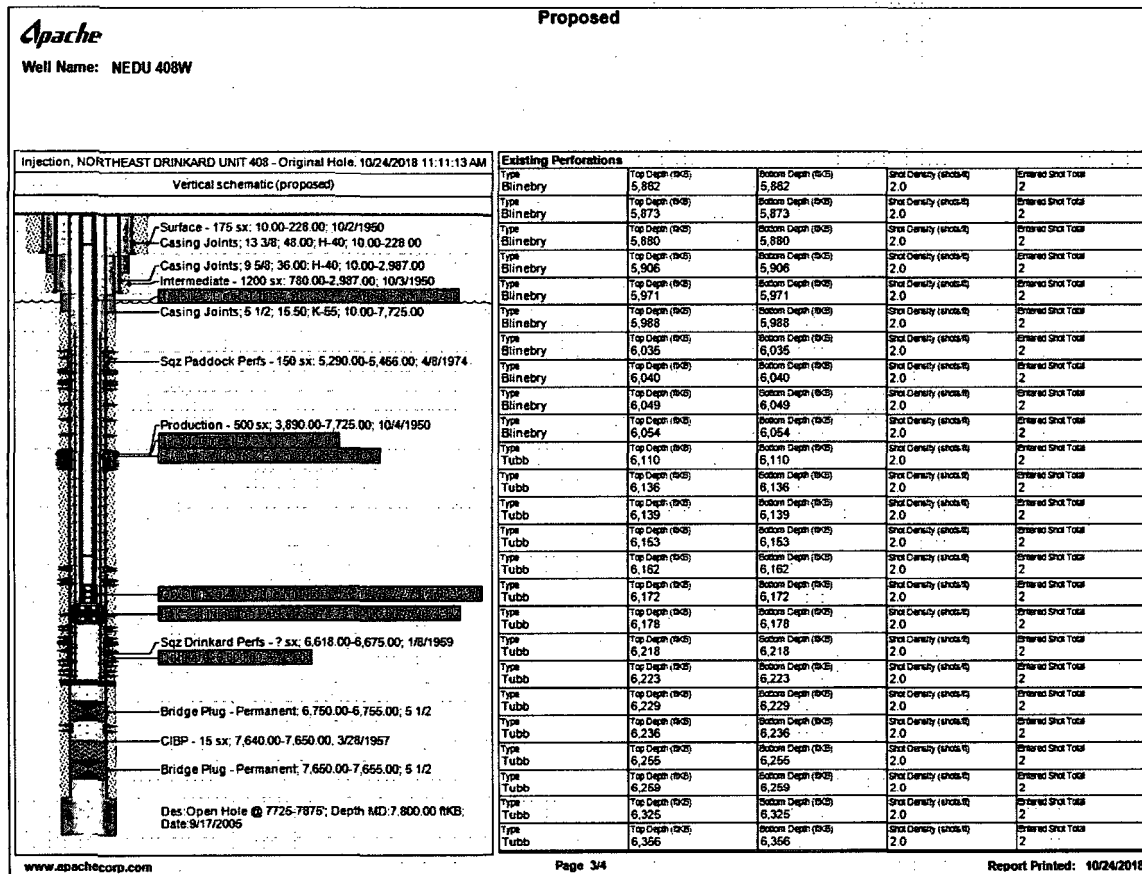
Page 1/4

Report Printed: 10/24/2018

Scenario 2: FJ Liner Proposed WBD



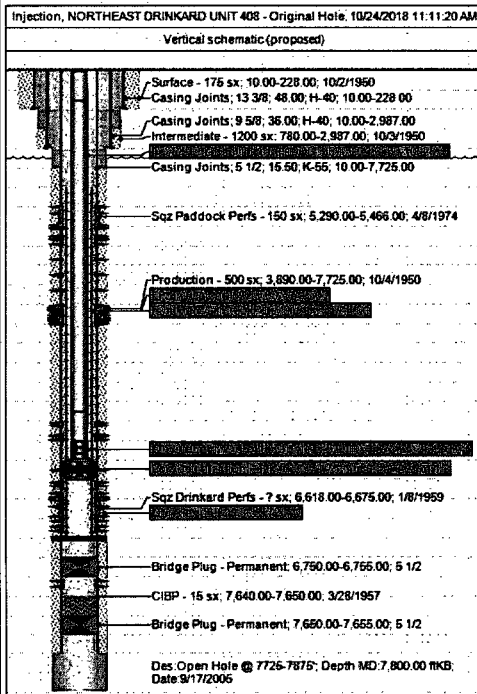
Scenario 2: FJ Liner Proposed WBD



1. *Journal of the American Medical Association*, 1997; 277: 103-107.



**Proposed**



| Existing Performances |                  |                     |                        |                    |
|-----------------------|------------------|---------------------|------------------------|--------------------|
| Type                  | Top Depth (ft/s) | Bottom Depth (ft/s) | Shot Density (shots/s) | Entered Shot Total |
| Typb                  | 6,395            | 6,395               | 2.0                    | 2                  |
| Type                  | Top Depth (ft/s) | Bottom Depth (ft/s) | Shot Density (shots/s) | Entered Shot Total |
| Typb                  | 6,417            | 6,417               | 2.0                    | 2                  |
| Type                  | Top Depth (ft/s) | Bottom Depth (ft/s) | Shot Density (shots/s) | Entered Shot Total |
| Drinkard              | 6,516            | 6,516               | 2.0                    | 2                  |
| Type                  | Top Depth (ft/s) | Bottom Depth (ft/s) | Shot Density (shots/s) | Entered Shot Total |
| Drinkard              | 6,530            | 6,550               | 2.0                    | 40                 |
| Type                  | Top Depth (ft/s) | Bottom Depth (ft/s) | Shot Density (shots/s) | Entered Shot Total |
| Drinkard              | 6,560            | 6,560               | 2.0                    | 2                  |
| Type                  | Top Depth (ft/s) | Bottom Depth (ft/s) | Shot Density (shots/s) | Entered Shot Total |
| Drinkard              | 6,565            | 6,565               | 2.0                    | 2                  |
| Type                  | Top Depth (ft/s) | Bottom Depth (ft/s) | Shot Density (shots/s) | Entered Shot Total |
| Drinkard              | 6,577            | 6,577               | 2.0                    | 2                  |
| Type                  | Top Depth (ft/s) | Bottom Depth (ft/s) | Shot Density (shots/s) | Entered Shot Total |
| Drinkard              | 6,586            | 6,586               | 2.0                    | 2                  |
| Type                  | Top Depth (ft/s) | Bottom Depth (ft/s) | Shot Density (shots/s) | Entered Shot Total |
| Drinkard              | 6,592            | 6,598               | 2.0                    | 12                 |
| Type                  | Top Depth (ft/s) | Bottom Depth (ft/s) | Shot Density (shots/s) | Entered Shot Total |
| Drinkard              | 6,607            | 6,607               | 2.0                    | 2                  |
| Type                  | Top Depth (ft/s) | Bottom Depth (ft/s) | Shot Density (shots/s) | Entered Shot Total |
| Drinkard              | 6,614            | 6,614               | 2.0                    | 2                  |
| Type                  | Top Depth (ft/s) | Bottom Depth (ft/s) | Shot Density (shots/s) | Entered Shot Total |
| Drinkard              | 6,617            | 6,617               | 2.0                    | 2                  |
| Type                  | Top Depth (ft/s) | Bottom Depth (ft/s) | Shot Density (shots/s) | Entered Shot Total |
| Drinkard - Sqz'd      | 6,618            | 6,632               | 4.0                    | 56                 |
| Type                  | Top Depth (ft/s) | Bottom Depth (ft/s) | Shot Density (shots/s) | Entered Shot Total |
| Drinkard              | 6,622            | 6,632               | 2.0                    | 20                 |
| Type                  | Top Depth (ft/s) | Bottom Depth (ft/s) | Shot Density (shots/s) | Entered Shot Total |
| Drinkard - Sqz'd      | 6,640            | 6,660               | 2.0                    | 80                 |
| Type                  | Top Depth (ft/s) | Bottom Depth (ft/s) | Shot Density (shots/s) | Entered Shot Total |
| Drinkard              | 6,642            | 6,650               | 2.0                    | 16                 |
| Type                  | Top Depth (ft/s) | Bottom Depth (ft/s) | Shot Density (shots/s) | Entered Shot Total |
| Drinkard - Sqz'd      | 6,668            | 6,675               | 2.0                    | 28                 |
| Type                  | Top Depth (ft/s) | Bottom Depth (ft/s) | Shot Density (shots/s) | Entered Shot Total |
| Drinkard              | 6,670            | 6,678               | 2.0                    | 16                 |
| Type                  | Top Depth (ft/s) | Bottom Depth (ft/s) | Shot Density (shots/s) | Entered Shot Total |
| Drinkard              | 6,684            | 6,686               | 2.0                    | 24                 |
| Type                  | Top Depth (ft/s) | Bottom Depth (ft/s) | Shot Density (shots/s) | Entered Shot Total |
| Drinkard              | 6,702            | 6,714               | 2.0                    | 24                 |
| Type                  | Top Depth (ft/s) | Bottom Depth (ft/s) | Shot Density (shots/s) | Entered Shot Total |
| Drinkard              | 6,717            | 6,717               | 2.0                    | 2                  |
| Type                  | Top Depth (ft/s) | Bottom Depth (ft/s) | Shot Density (shots/s) | Entered Shot Total |
| Abso - Abandoned      | 6,935            | 7,030               | 4.0                    | 100                |
| Type                  | Top Depth (ft/s) | Bottom Depth (ft/s) | Shot Density (shots/s) | Entered Shot Total |
| Abso - Abandoned      | 7,185            | 7,390               | 4.0                    | 268                |
| Proposed Performances |                  |                     |                        |                    |
| Type                  | Top Depth (ft/s) | Bottom Depth (ft/s) | Shot Density (shots/s) | Entered Shot Total |
| Drinkard              | 6,600            | 6,720               | 2.0                    | 162                |