

**NM OIL CONSERVATION  
ARTESIA DISTRICT**

**NOV 29 2018**

Submit 1 Copy To Appropriate District Office  
**District I** - (575) 393-6161  
 1625 N. French Dr., Hobbs, NM 88240  
**District II** - (575) 748-1283  
 811 S. First St., Artesia, NM 88210  
**District III** - (505) 334-6178  
 1000 Rio Brazos Rd., Aztec, NM 87410  
**District IV** - (505) 476-3460  
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
 Energy, Minerals and Natural Resources

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

**RECEIVED**

Form C-103  
 Revised July 18, 2013

|                                                                                                                                                                                                                |  |                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------|
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br>(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)  |  | WELL API NO.<br>30-015-45274                                                                        |
| 1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <input type="checkbox"/>                                                                                 |  | 5. Indicate Type of Lease<br>STATE <input checked="" type="checkbox"/> FBB <input type="checkbox"/> |
| 2. Name of Operator<br>RKI EXPLORATION & PRODUCTION, LLC                                                                                                                                                       |  | 6. State Oil & Gas Lease No.                                                                        |
| 3. Address of Operator<br>3500 ONE WILLIAMS CENTER, MD: 35, TULSA, OK 74172                                                                                                                                    |  | 7. Lease Name or Unit Agreement Name<br>FRONTIER 32 23 26 STATE                                     |
| 4. Well Location<br>Unit Letter <b>P</b> : <b>248</b> feet from the <b>S</b> line and <b>350</b> feet from the <b>E</b> line<br>Section <b>32</b> Township <b>23S</b> Range <b>26E</b> NMPM County <b>EDDY</b> |  | 8. Well Number<br>431H                                                                              |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.)<br>3,463 RKB                                                                                                                                                |  | 9. OGRID Number<br>246289                                                                           |
| 10. Pool name or Wildcat<br>PURPLE SGAE; WOLFCAMP (GAS)                                                                                                                                                        |  |                                                                                                     |

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

**NOTICE OF INTENTION TO:**

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
 DOWNHOLE COMMINGLE ☐  
 CLOSED-LOOP SYSTEM ☐  
 OTHER: ☐

**SUBSEQUENT REPORT OF:**

REMEDIAL WORK ☐ ALTERING CASING ☐  
 COMMENCE DRILLING OPNS. ☐ P AND A ☐  
 CASING/CEMENT JOB ☒

OTHER: Casing/Cement Job and Spud ☒

**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.

The above referenced well has been spud and surface casing has been set. A summary of operations is as follows:

Spud Date: 11-26-2018

Set surface casing and cement: 11-27-2018

13 3/8", depth @ 424', 54.5# J-55, 6 centralizers used  
 Shoe depth = 408.66'md; Float Collar depth = 365.06'md  
 Top of cement = Surface  
 549 sx of 14.8 ppg, class C+  
 Bump Plug @ 950 psi, 57 bbls to surface (100% returns)  
 Tested Casing to 2000 psi for 30 mins

Spud Date:

11-26-2018

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

**Lorri Kline**

SIGNATURE

Digitally signed by Lorri Kline  
 DN: cn=Lorri Kline, o=wp, email=LORRI.KLINE@WPXENERGY.CO  
 AL, c=US  
 Date: 2018.11.28 10:10:09 -0600

TITLE REGULATORY TECH II

DATE 11-28-2018

Type or print name **LORRI KLINE**

E-mail address: **lorri.kline@wpxenergy.com**

PHONE: **539-573-3518**

**For State Use Only**

APPROVED BY:

*Rusty Kline*

TITLE

*Business Ops Spud*

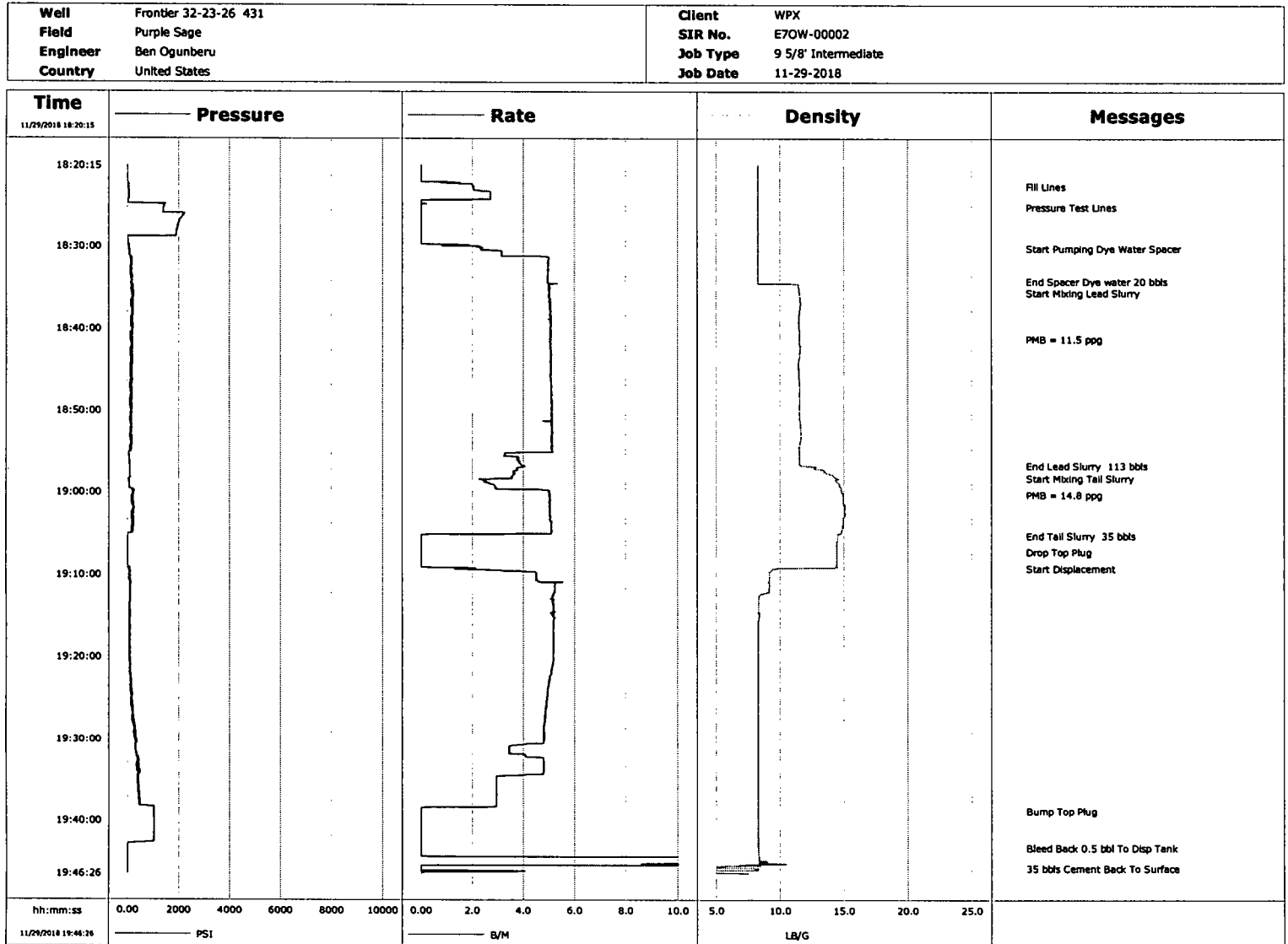
DATE

*11-30-2018*

Conditions of Approval (if any):

## Cementing Job Report

CemCAT v1.7



11/29/2018 20:40:17

|                                                           |                        |                                                                            |                       |                                     |                                |                                |                                |
|-----------------------------------------------------------|------------------------|----------------------------------------------------------------------------|-----------------------|-------------------------------------|--------------------------------|--------------------------------|--------------------------------|
|                                                           |                        |                                                                            |                       | Customer<br>WPX                     |                                | Job Number<br>E7OW-00002       |                                |
| Well<br>Frontier 32-23-26 431 431                         |                        |                                                                            | Location (legal)<br>1 |                                     | Schlumberger Location<br>Hobbs |                                | Job Start<br>Nov/29/2018       |
| Field<br>Purple Sage                                      |                        | Formation Name/Type<br>Shale                                               |                       | Deviation<br>0 deg                  | Bit Size<br>12.3 in            | Well MD<br>1815.0 ft           | Well TVD<br>1815.0 ft          |
| County<br>Eddy                                            |                        | State/Province<br>New Mexico                                               |                       | BHP<br>psi                          | BHST<br>97 degF                | BHCT<br>87 degF                | Pore Press. Gradient<br>lb/gal |
| Well Master<br>0631797636                                 |                        | API/UWI<br>30-015-45274                                                    |                       |                                     |                                |                                |                                |
| Rig Name<br>H&P #265                                      |                        | Drilled For<br>Oil and Gas                                                 |                       | Service Via<br>Land                 |                                | Casing/Liner                   |                                |
|                                                           |                        |                                                                            |                       | Depth, ft                           | Size, in                       | Weight, lb/ft                  | Grade                          |
| Offshore Zone                                             |                        | Well Class<br>New                                                          |                       | Well Type<br>Development            |                                |                                | Thread                         |
|                                                           |                        |                                                                            |                       | 1798.0                              | 9.6                            | 40.0                           | J55                            |
|                                                           |                        |                                                                            |                       | 0.0                                 | 0.0                            | 0.0                            |                                |
| Drilling Fluid Type                                       |                        | Max. Density<br>lb/gal                                                     |                       | Plastic Viscosity<br>cP             |                                | Tubing/Drill Pipe              |                                |
|                                                           |                        |                                                                            |                       |                                     |                                | T/D                            | Depth, ft                      |
|                                                           |                        |                                                                            |                       |                                     |                                | Size, in                       | Weight, lb/ft                  |
|                                                           |                        |                                                                            |                       |                                     |                                | Grade                          | Thread                         |
| Service Line<br>Cementing                                 |                        | Job Type<br>9 5/8" Intermediate                                            |                       |                                     |                                |                                |                                |
| Max. Allowed Tub. Press<br>psi                            |                        | Max. Allowed Ann. Press<br>psi                                             |                       | WH Connection<br>Single Cement head |                                | Perforations/Open Hole         |                                |
|                                                           |                        |                                                                            |                       |                                     |                                | Top, ft                        | Bottom, ft                     |
|                                                           |                        |                                                                            |                       |                                     |                                | shot/ft                        | No. of Shots                   |
|                                                           |                        |                                                                            |                       |                                     |                                |                                | Total Interval<br>ft           |
|                                                           |                        |                                                                            |                       |                                     |                                |                                | Diameter<br>in                 |
|                                                           |                        |                                                                            |                       |                                     |                                | Treat Down<br>Casing           | Displacement<br>133.0 bbl      |
|                                                           |                        |                                                                            |                       |                                     |                                | Packer Type                    | Packer Depth<br>ft             |
|                                                           |                        |                                                                            |                       |                                     |                                | Tubing Vol.<br>bbl             | Casing Vol.<br>136.0 bbl       |
|                                                           |                        |                                                                            |                       |                                     |                                | Annular Vol.<br>bbl            | Openhole Vol.<br>bbl           |
| Casing/Tubing Secured <input checked="" type="checkbox"/> |                        | 1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/> |                       | Casing Tools                        |                                | Squeeze Job                    |                                |
| Lift Pressure<br>988 psi                                  |                        | Shoe Type<br>Guide                                                         |                       | Squeeze Type                        |                                |                                |                                |
| Pipe Rotated <input type="checkbox"/>                     |                        | Pipe Red/procated <input type="checkbox"/>                                 |                       | Shoe Depth<br>1798.0 ft             |                                | Tool Type                      |                                |
| No. Centralizers                                          |                        | Top Plugs<br>1                                                             |                       | Bottom Plugs                        |                                | Tool Depth<br>ft               |                                |
| Cement Head Type<br>Single                                |                        | Stage Tool Type                                                            |                       | Stage Tool Depth<br>ft              |                                | Tail Pipe Size<br>in           |                                |
| Job Scheduled For<br>Nov/29/2018                          |                        | Arrived on Location<br>Nov/29/2018                                         |                       | Leave Location<br>Nov/29/2018       |                                | Collar Type<br>Float           |                                |
|                                                           |                        |                                                                            |                       |                                     |                                | Tail Pipe Depth<br>ft          |                                |
|                                                           |                        |                                                                            |                       |                                     |                                | Collar Depth<br>1757.0 ft      |                                |
|                                                           |                        |                                                                            |                       |                                     |                                | Sqr. Total Vol.<br>bbl         |                                |
| Date                                                      | Time<br>24-hr<br>clock | Treating<br>Pressure<br>PSI                                                | Flow<br>Rate<br>B/M   | Density<br>LB/G                     | Volume<br>BBL                  | Message                        |                                |
| 11/29/2018                                                | 18:20:15               | -1                                                                         | 0.0                   | 8.31                                | 7.9                            |                                |                                |
| 11/29/2018                                                | 18:20:45               | -2                                                                         | 0.0                   | 8.31                                | 7.9                            |                                |                                |
| 11/29/2018                                                | 18:21:15               | -2                                                                         | 0.0                   | 8.31                                | 7.9                            |                                |                                |
| 11/29/2018                                                | 18:21:45               | -2                                                                         | 0.0                   | 8.31                                | 7.9                            |                                |                                |
| 11/29/2018                                                | 18:22:15               | 0                                                                          | 0.0                   | 8.31                                | 0.0                            |                                |                                |
| 11/29/2018                                                | 18:22:45               | 51                                                                         | 2.0                   | 8.30                                | 0.7                            | Fill Lines                     |                                |
| 11/29/2018                                                | 18:23:15               | 52                                                                         | 2.0                   | 8.32                                | 1.7                            |                                |                                |
| 11/29/2018                                                | 18:23:45               | 66                                                                         | 2.7                   | 8.32                                | 2.9                            |                                |                                |
| 11/29/2018                                                | 18:24:15               | 68                                                                         | 2.7                   | 8.32                                | 4.3                            |                                |                                |
| 11/29/2018                                                | 18:24:45               | 21                                                                         | 0.0                   | 8.32                                | 4.9                            |                                |                                |
| 11/29/2018                                                | 18:25:15               | 1434                                                                       | 0.0                   | 8.32                                | 4.9                            | Pressure Test Lines            |                                |
| 11/29/2018                                                | 18:25:45               | 1409                                                                       | 0.0                   | 8.32                                | 4.9                            |                                |                                |
| 11/29/2018                                                | 18:26:15               | 2207                                                                       | 0.0                   | 8.32                                | 4.9                            |                                |                                |
| 11/29/2018                                                | 18:26:45               | 2089                                                                       | 0.0                   | 8.32                                | 4.9                            |                                |                                |
| 11/29/2018                                                | 18:27:15               | 2008                                                                       | 0.0                   | 8.32                                | 4.9                            |                                |                                |
| 11/29/2018                                                | 18:27:45               | 1961                                                                       | 0.0                   | 8.32                                | 4.9                            |                                |                                |
| 11/29/2018                                                | 18:28:15               | 1929                                                                       | 0.0                   | 8.32                                | 4.9                            |                                |                                |
| 11/29/2018                                                | 18:28:45               | 1903                                                                       | 0.0                   | 8.32                                | 4.9                            |                                |                                |
| 11/29/2018                                                | 18:29:15               | 12                                                                         | 0.0                   | 8.32                                | 4.9                            |                                |                                |
| 11/29/2018                                                | 18:29:45               | 20                                                                         | 0.0                   | 8.32                                | 4.9                            |                                |                                |
| 11/29/2018                                                | 18:30:15               | 65                                                                         | 2.4                   | 8.31                                | 5.6                            | Start Pumping Dye Water Spacer |                                |

| Well                      |                        | Field                       | Purple Sage           | Job Start       | Customer      | WPX | Job Number                   |
|---------------------------|------------------------|-----------------------------|-----------------------|-----------------|---------------|-----|------------------------------|
| Frontier 32-23-26 431 431 |                        |                             |                       | Nov/29/2018     |               |     | E7OW-00002                   |
| Date                      | Time<br>24-Hr<br>clock | Treating<br>Pressure<br>PSI | Flow<br>Rate<br>bbl/m | Density<br>lb/g | Volume<br>BBL |     | Message                      |
| 11/29/2018                | 18:31:15               | 81                          | 3.1                   | 8.31            | 8.5           |     |                              |
| 11/29/2018                | 18:31:45               | 141                         | 5.0                   | 8.31            | 10.8          |     |                              |
| 11/29/2018                | 18:32:15               | 150                         | 4.9                   | 8.31            | 13.3          |     |                              |
| 11/29/2018                | 18:32:45               | 152                         | 4.9                   | 8.32            | 15.8          |     |                              |
| 11/29/2018                | 18:33:15               | 120                         | 5.0                   | 8.31            | 18.3          |     |                              |
| 11/29/2018                | 18:33:45               | 166                         | 4.9                   | 8.31            | 20.7          |     |                              |
| 11/29/2018                | 18:34:15               | 190                         | 4.9                   | 8.31            | 23.2          |     | End Spacer Dye water 20 bbls |
| 11/29/2018                | 18:34:45               | 221                         | 5.0                   | 11.44           | 25.7          |     | Start Mixing Lead Slurry     |
| 11/29/2018                | 18:35:15               | 225                         | 5.0                   | 11.47           | 28.2          |     |                              |
| 11/29/2018                | 18:35:45               | 185                         | 5.0                   | 11.52           | 30.7          |     |                              |
| 11/29/2018                | 18:36:15               | 228                         | 5.0                   | 11.57           | 33.2          |     |                              |
| 11/29/2018                | 18:37:15               | 217                         | 5.0                   | 11.59           | 38.2          |     |                              |
| 11/29/2018                | 18:37:45               | 233                         | 5.0                   | 11.55           | 40.7          |     |                              |
| 11/29/2018                | 18:38:15               | 199                         | 5.0                   | 11.51           | 43.3          |     |                              |
| 11/29/2018                | 18:38:45               | 206                         | 5.1                   | 11.49           | 45.8          |     |                              |
| 11/29/2018                | 18:39:15               | 157                         | 5.0                   | 11.48           | 48.3          |     |                              |
| 11/29/2018                | 18:39:45               | 220                         | 5.1                   | 11.48           | 50.8          |     |                              |
| 11/29/2018                | 18:40:15               | 193                         | 5.1                   | 11.52           | 53.4          |     |                              |
| 11/29/2018                | 18:40:45               | 196                         | 5.0                   | 11.52           | 55.9          |     |                              |
| 11/29/2018                | 18:41:15               | 163                         | 5.0                   | 11.52           | 58.4          |     | PMB = 11.5 ppg               |
| 11/29/2018                | 18:41:45               | 153                         | 5.0                   | 11.53           | 60.9          |     |                              |
| 11/29/2018                | 18:42:15               | 173                         | 5.1                   | 11.58           | 63.4          |     |                              |
| 11/29/2018                | 18:42:45               | 128                         | 5.1                   | 11.59           | 66.0          |     |                              |
| 11/29/2018                | 18:43:15               | 136                         | 5.1                   | 11.55           | 68.5          |     |                              |
| 11/29/2018                | 18:43:45               | 180                         | 5.0                   | 11.50           | 71.0          |     |                              |
| 11/29/2018                | 18:44:15               | 182                         | 5.1                   | 11.44           | 73.6          |     |                              |
| 11/29/2018                | 18:44:45               | 151                         | 5.1                   | 11.44           | 76.1          |     |                              |
| 11/29/2018                | 18:45:15               | 139                         | 5.1                   | 11.48           | 78.6          |     |                              |
| 11/29/2018                | 18:45:45               | 154                         | 5.0                   | 11.48           | 81.2          |     |                              |
| 11/29/2018                | 18:46:15               | 146                         | 5.1                   | 11.51           | 83.7          |     |                              |
| 11/29/2018                | 18:46:45               | 130                         | 5.1                   | 11.51           | 86.2          |     |                              |
| 11/29/2018                | 18:47:15               | 112                         | 5.1                   | 11.54           | 88.8          |     |                              |
| 11/29/2018                | 18:47:45               | 151                         | 5.1                   | 11.54           | 91.3          |     |                              |
| 11/29/2018                | 18:48:15               | 128                         | 5.1                   | 11.53           | 93.8          |     |                              |
| 11/29/2018                | 18:48:45               | 143                         | 5.1                   | 11.54           | 96.4          |     |                              |
| 11/29/2018                | 18:49:15               | 108                         | 5.1                   | 11.53           | 98.9          |     |                              |
| 11/29/2018                | 18:49:45               | 137                         | 5.1                   | 11.51           | 101.5         |     |                              |
| 11/29/2018                | 18:50:15               | 181                         | 5.1                   | 11.54           | 104.0         |     |                              |
| 11/29/2018                | 18:50:45               | 114                         | 5.1                   | 11.54           | 106.6         |     |                              |
| 11/29/2018                | 18:51:15               | 111                         | 5.1                   | 11.54           | 109.1         |     |                              |
| 11/29/2018                | 18:51:45               | 141                         | 5.1                   | 11.57           | 111.7         |     |                              |
| 11/29/2018                | 18:52:15               | 142                         | 5.1                   | 11.62           | 114.2         |     |                              |
| 11/29/2018                | 18:52:45               | 113                         | 5.1                   | 11.65           | 116.8         |     |                              |
| 11/29/2018                | 18:53:15               | 119                         | 5.1                   | 11.63           | 119.3         |     |                              |
| 11/29/2018                | 18:53:45               | 185                         | 5.1                   | 11.60           | 121.9         |     |                              |
| 11/29/2018                | 18:54:15               | 157                         | 5.1                   | 11.54           | 124.4         |     |                              |
| 11/29/2018                | 18:54:45               | 164                         | 5.1                   | 11.49           | 127.0         |     |                              |
| 11/29/2018                | 18:55:15               | 70                          | 3.3                   | 11.51           | 129.4         |     |                              |
| 11/29/2018                | 18:55:45               | 91                          | 3.8                   | 11.50           | 131.1         |     |                              |
| 11/29/2018                | 18:56:15               | 92                          | 3.8                   | 11.50           | 133.0         |     |                              |
| 11/29/2018                | 18:56:45               | 96                          | 4.0                   | 11.64           | 134.9         |     | End Lead Slurry 113 bbls     |
| 11/29/2018                | 18:57:15               | 102                         | 3.8                   | 13.22           | 136.9         |     |                              |
| 11/29/2018                | 18:57:45               | 108                         | 3.7                   | 13.84           | 138.7         |     |                              |
| 11/29/2018                | 18:58:15               | 110                         | 3.5                   | 14.32           | 140.5         |     | Start Mixing Tail Slurry     |

| Well | Frontier 32-23-26 431 431 |                  |                       | Field | Purple Sage   |              |            | Job Start | Customer | WPX                     | Job Number |
|------|---------------------------|------------------|-----------------------|-------|---------------|--------------|------------|-----------|----------|-------------------------|------------|
|      | Date                      | Time 24-hr clock | Treating Pressure PSI |       | Flow Rate B/M | Density LB/G | Volume BBL |           |          |                         |            |
|      | 11/29/2018                | 18:59:15         | 85                    |       | 2.9           | 14.64        | 143.2      |           |          |                         |            |
|      | 11/29/2018                | 18:59:45         | 156                   |       | 4.9           | 14.76        | 144.8      |           |          |                         |            |
|      | 11/29/2018                | 19:00:15         | 220                   |       | 5.0           | 14.88        | 147.3      |           |          | PMB = 14.8 ppq          |            |
|      | 11/29/2018                | 19:00:45         | 198                   |       | 5.0           | 14.93        | 149.8      |           |          |                         |            |
|      | 11/29/2018                | 19:01:15         | 186                   |       | 5.0           | 14.94        | 152.3      |           |          |                         |            |
|      | 11/29/2018                | 19:01:45         | 207                   |       | 5.0           | 15.04        | 154.8      |           |          |                         |            |
|      | 11/29/2018                | 19:02:15         | 223                   |       | 5.0           | 15.04        | 157.3      |           |          |                         |            |
|      | 11/29/2018                | 19:02:45         | 181                   |       | 5.0           | 15.07        | 159.8      |           |          |                         |            |
|      | 11/29/2018                | 19:03:15         | 150                   |       | 5.0           | 14.94        | 162.3      |           |          |                         |            |
|      | 11/29/2018                | 19:03:45         | 223                   |       | 5.1           | 14.94        | 164.9      |           |          |                         |            |
|      | 11/29/2018                | 19:04:15         | 257                   |       | 5.1           | 14.88        | 167.4      |           |          |                         |            |
|      | 11/29/2018                | 19:04:45         | 216                   |       | 5.1           | 14.80        | 169.9      |           |          |                         |            |
|      | 11/29/2018                | 19:05:15         | 11                    |       | 0.0           | 14.52        | 171.9      |           |          | End Tail Slurry 35 bbls |            |
|      | 11/29/2018                | 19:05:45         | 10                    |       | 0.0           | 14.50        | 171.9      |           |          |                         |            |
|      | 11/29/2018                | 19:06:15         | 10                    |       | 0.0           | 14.43        | 171.9      |           |          |                         |            |
|      | 11/29/2018                | 19:06:45         | 10                    |       | 0.0           | 14.43        | 171.9      |           |          |                         |            |
|      | 11/29/2018                | 19:07:15         | 10                    |       | 0.0           | 14.43        | 171.9      |           |          | Drop Top Plug           |            |
|      | 11/29/2018                | 19:07:45         | 11                    |       | 0.0           | 14.43        | 171.9      |           |          |                         |            |
|      | 11/29/2018                | 19:08:15         | 13                    |       | 0.0           | 14.44        | 171.9      |           |          |                         |            |
|      | 11/29/2018                | 19:08:45         | 12                    |       | 0.0           | 14.44        | 171.9      |           |          |                         |            |
|      | 11/29/2018                | 19:09:15         | 100                   |       | 2.0           | 10.55        | 172.0      |           |          | Start Displacement      |            |
|      | 11/29/2018                | 19:09:45         | 94                    |       | 4.5           | 9.18         | 173.4      |           |          |                         |            |
|      | 11/29/2018                | 19:10:15         | 73                    |       | 4.5           | 9.19         | 175.7      |           |          |                         |            |
|      | 11/29/2018                | 19:10:45         | 95                    |       | 4.5           | 9.15         | 177.9      |           |          |                         |            |
|      | 11/29/2018                | 19:11:15         | 110                   |       | 5.2           | 9.16         | 180.4      |           |          |                         |            |
|      | 11/29/2018                | 19:12:15         | 124                   |       | 5.2           | 8.93         | 185.6      |           |          |                         |            |
|      | 11/29/2018                | 19:12:45         | 104                   |       | 5.1           | 8.35         | 188.2      |           |          |                         |            |
|      | 11/29/2018                | 19:13:15         | 94                    |       | 5.1           | 8.34         | 190.8      |           |          |                         |            |
|      | 11/29/2018                | 19:13:45         | 82                    |       | 5.2           | 8.33         | 193.3      |           |          |                         |            |
|      | 11/29/2018                | 19:14:15         | 87                    |       | 5.2           | 8.33         | 195.9      |           |          |                         |            |
|      | 11/29/2018                | 19:14:45         | 99                    |       | 5.1           | 8.39         | 198.5      |           |          |                         |            |
|      | 11/29/2018                | 19:15:15         | 90                    |       | 5.2           | 8.36         | 201.1      |           |          |                         |            |
|      | 11/29/2018                | 19:15:45         | 81                    |       | 5.2           | 8.31         | 203.7      |           |          |                         |            |
|      | 11/29/2018                | 19:16:15         | 83                    |       | 5.2           | 8.32         | 206.3      |           |          |                         |            |
|      | 11/29/2018                | 19:16:45         | 109                   |       | 5.2           | 8.32         | 208.8      |           |          |                         |            |
|      | 11/29/2018                | 19:17:15         | 90                    |       | 5.2           | 8.32         | 211.4      |           |          |                         |            |
|      | 11/29/2018                | 19:17:45         | 86                    |       | 5.2           | 8.32         | 214.0      |           |          |                         |            |
|      | 11/29/2018                | 19:18:15         | 82                    |       | 5.2           | 8.32         | 216.6      |           |          |                         |            |
|      | 11/29/2018                | 19:18:45         | 89                    |       | 5.2           | 8.32         | 219.2      |           |          |                         |            |
|      | 11/29/2018                | 19:19:15         | 104                   |       | 5.2           | 8.32         | 221.7      |           |          |                         |            |
|      | 11/29/2018                | 19:19:45         | 79                    |       | 5.2           | 8.32         | 224.3      |           |          |                         |            |
|      | 11/29/2018                | 19:20:15         | 86                    |       | 5.2           | 8.32         | 226.9      |           |          |                         |            |
|      | 11/29/2018                | 19:20:45         | 93                    |       | 5.1           | 8.32         | 229.5      |           |          |                         |            |
|      | 11/29/2018                | 19:21:15         | 110                   |       | 5.1           | 8.32         | 232.0      |           |          |                         |            |
|      | 11/29/2018                | 19:21:45         | 98                    |       | 5.1           | 8.32         | 234.6      |           |          |                         |            |
|      | 11/29/2018                | 19:22:15         | 111                   |       | 5.0           | 8.32         | 237.1      |           |          |                         |            |
|      | 11/29/2018                | 19:22:45         | 137                   |       | 5.0           | 8.32         | 239.6      |           |          |                         |            |
|      | 11/29/2018                | 19:23:15         | 148                   |       | 5.0           | 8.32         | 242.1      |           |          |                         |            |
|      | 11/29/2018                | 19:23:45         | 139                   |       | 5.0           | 8.32         | 244.6      |           |          |                         |            |
|      | 11/29/2018                | 19:24:15         | 137                   |       | 5.0           | 8.32         | 247.1      |           |          |                         |            |
|      | 11/29/2018                | 19:24:45         | 149                   |       | 4.9           | 8.32         | 249.5      |           |          |                         |            |
|      | 11/29/2018                | 19:25:15         | 171                   |       | 4.9           | 8.32         | 252.0      |           |          |                         |            |
|      | 11/29/2018                | 19:25:45         | 150                   |       | 4.9           | 8.32         | 254.4      |           |          |                         |            |
|      | 11/29/2018                | 19:26:15         | 180                   |       | 4.9           | 8.32         | 256.8      |           |          |                         |            |

| Well<br>Frontier 32-23-26 431 431 |                        |                             | Field<br>Purple Sage |                 | Job Start<br>Nov/29/2018 |                                 | Customer<br>WPX |  | Job Number<br>E7OW-00002 |  |
|-----------------------------------|------------------------|-----------------------------|----------------------|-----------------|--------------------------|---------------------------------|-----------------|--|--------------------------|--|
| Date                              | Time<br>24-hr<br>clock | Treating<br>Pressure<br>PSI | Flow<br>Rate<br>B/M  | Density<br>LB/G | Volume<br>BBL            | Message                         |                 |  |                          |  |
| 11/29/2018                        | 19:27:15               | 204                         | 4.8                  | 8.32            | 261.7                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:27:45               | 215                         | 4.8                  | 8.32            | 264.1                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:28:15               | 283                         | 4.8                  | 8.32            | 266.6                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:28:45               | 291                         | 4.8                  | 8.32            | 269.0                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:29:15               | 257                         | 4.8                  | 8.32            | 271.3                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:29:45               | 262                         | 4.8                  | 8.32            | 273.7                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:30:15               | 360                         | 4.8                  | 8.32            | 276.1                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:30:45               | 302                         | 3.9                  | 8.32            | 278.4                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:31:15               | 309                         | 3.4                  | 8.32            | 280.2                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:31:45               | 335                         | 3.4                  | 8.32            | 281.9                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:32:15               | 388                         | 4.1                  | 8.32            | 283.8                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:32:45               | 400                         | 4.8                  | 8.32            | 286.2                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:33:15               | 381                         | 4.8                  | 8.31            | 288.6                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:33:45               | 413                         | 4.8                  | 8.31            | 291.0                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:34:15               | 478                         | 4.8                  | 8.32            | 293.4                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:34:45               | 429                         | 2.9                  | 8.32            | 295.3                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:35:15               | 388                         | 2.9                  | 8.32            | 296.8                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:35:45               | 415                         | 2.9                  | 8.32            | 298.2                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:36:15               | 412                         | 2.9                  | 8.32            | 299.7                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:36:45               | 425                         | 2.9                  | 8.32            | 301.2                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:37:15               | 435                         | 2.9                  | 8.32            | 302.7                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:37:45               | 453                         | 2.9                  | 8.32            | 304.1                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:38:15               | 710                         | 2.9                  | 8.32            | 305.6                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:38:45               | 1033                        | 0.0                  | 8.32            | 305.9                    | Bump Top Plug                   |                 |  |                          |  |
| 11/29/2018                        | 19:39:15               | 1034                        | 0.0                  | 8.32            | 305.9                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:39:45               | 1034                        | 0.0                  | 8.32            | 305.9                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:40:15               | 1034                        | 0.0                  | 8.32            | 305.9                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:40:45               | 1035                        | 0.0                  | 8.32            | 305.9                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:41:15               | 1037                        | 0.0                  | 8.32            | 305.9                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:41:45               | 1038                        | 0.0                  | 8.32            | 305.9                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:42:15               | 1039                        | 0.0                  | 8.32            | 305.9                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:42:45               | 453                         | 0.0                  | 8.32            | 305.9                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:43:15               | 3                           | 0.0                  | 8.32            | 305.9                    | Bleed Back 0.5 bbl To Disp Tank |                 |  |                          |  |
| 11/29/2018                        | 19:43:45               | 3                           | 0.0                  | 8.32            | 305.9                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:44:15               | 3                           | 0.0                  | 8.32            | 305.9                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:44:45               | 0                           | 14.2                 | 8.35            | 309.5                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:45:15               | 1                           | 11.3                 | 8.72            | 315.9                    |                                 |                 |  |                          |  |
| 11/29/2018                        | 19:45:45               | 1                           | 0.0                  | 4.57            | 318.5                    | 35 bbls Cement Back To Surface  |                 |  |                          |  |

|                                          |                             |                                 |                        |                                 |
|------------------------------------------|-----------------------------|---------------------------------|------------------------|---------------------------------|
| <b>Well</b><br>Frontier 32-23-26 431 431 | <b>Field</b><br>Purple Sage | <b>Job Start</b><br>Nov/29/2018 | <b>Customer</b><br>WPX | <b>Job Number</b><br>E7OW-00002 |
|------------------------------------------|-----------------------------|---------------------------------|------------------------|---------------------------------|

### Post Job Summary

| Average Pump Rates, bbl/min                         |                                   |                |                                         |                        | Volume of Fluid Injected, bbl                                     |                                           |                                                   |  |
|-----------------------------------------------------|-----------------------------------|----------------|-----------------------------------------|------------------------|-------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------|--|
| Slurry<br>4.7                                       | N2                                | Mud            | Maximum Rate<br>16.4                    | Total Slurry<br>318.9  | Mud<br>0.0                                                        | Spacer<br>0.0                             | N2                                                |  |
| Treating Pressure Summary, psi                      |                                   |                |                                         |                        | Breakdown Fluid                                                   |                                           |                                                   |  |
| Maximum<br>2240                                     | Final<br>1                        | Average<br>281 | Bump Plug to<br>1033                    | Breakdown              | Type                                                              | Volume<br>bbl                             | Density<br>lb/gal                                 |  |
| Avg. N2 Percent<br>%                                | Designed Slurry Volume<br>0.0 bbl |                | Displacement<br>0.0 bbl                 | Mix Water Temp<br>degF | Cement Circulated to Surface? <input checked="" type="checkbox"/> | Volume 35.0 bbl                           |                                                   |  |
|                                                     |                                   |                |                                         |                        | Washed Thru Perfs <input type="checkbox"/>                        | To ft                                     |                                                   |  |
| Customer or Authorized Representative<br>Brian Ence |                                   |                | Schlumberger Supervisor<br>Ben Ogunberu |                        |                                                                   | Circulation Lost <input type="checkbox"/> | Job Completed <input checked="" type="checkbox"/> |  |
|                                                     |                                   |                |                                         |                        |                                                                   |                                           |                                                   |  |