

# HOBBS OCD



Last Updated: 5/26/2016 06:24 AM

| Lennox             | )   |  |           |  |   | -  |  |  |  | II No.   |
|--------------------|---|--|-----------|--|---|--|--|--|--|--|
| County             |   |  |           |  | JZ S  | ate  | _  | AD   |  |  |
|                    |   |  |           |  |   |  |  |  |  |  |
| Lea                |   |  | New       | viexico  | )   |  |  | 3002   | 4127   | 00000  |
| Version            |   | -  |           |  | _   |  |  |  | _  |  |
| 01 (4)             |   | Lennox 32 State         4H           State         API No.           New Mexico         30025412700000            ersion Tag         30025412700000            completed         ft)         Section         Township/Block         Range/Survey           3,476.0         32         22S         35E           Well Status         Latitude         Longitude           s, Inc         Completed  |           |  |   |  |  |  |  |  |
| GL (ft)            | KB (ft)   |  | tion      |  | snip  | BIOC   | ĸ  | -  | e/Sur  | vey  |
| 3,456.0            | 3,4/6   | .0 32  | 1144 - 11 |  |   | 11   |  | 35E  |  |  |
| Operator           | d One las   |  |           |  | \$  | Lat  | itude  |  | Long   | itude  |
| Caza Oil an        |   |  |           |  | 1===  |  |  |  | _  |  |
| Dist, N/S (f       |   | ne D   | ist, E/   |  |   |  |  | -  | From   | 1  |
| -                  | 30 FSL  |  |           |  |   |  |  |  |  |  |
| Prop Num           |   |  |           | 1  | Spuc  |  |  |  | mp. D  |  |
|                    |   |  |           |  |   | 8  | /16/20   | 014  |  | 5/19/2016  |
| Additional         | Informati   | on   |           |  |   |  |  |  |  |  |
|                    |   |  |           |  |   |  |  |  |  |  |
| OGRID              | N   | lell Typ   | e         |  |   |  | e and  |  |  |  |
| 249099             |   | orizont  |           |  | Num   | ber  |  |  |  |  |
| 249099             |   | onzona   |           |  |   |  |  |  |  | ke, Done   |
| Prepared E         | 3y  | Upo  | dated     | By   |   |  | Last   |  | -  |  |
| Steve Morri        | s   | Ste  | ve Mo     | rris   |   |  |  | 5/2  | 6/201  | 6 6:24 AN  |
| Hole Summ          | nary  |  |           |  |   |  |  |  |  |  |
| Date               | O.D. (in)   | Tor  |           | Bottor   | n   |  | C  | omme   | nts  |  |
|                    |   |  | ft)       | (MD ft   | t)  |  |  |  |  |  |
|                    | 26.000  |  | -         |  |   |  |  |  |  |  |
|                    | 17.500  |  |           |  |   |  |  |  |  |  |
|                    | 12.250  |  |           |  |   |  |  |  |  |  |
|                    | 8.750   | 5,   | 760       | 15,5   | 545   |  |  |  |  |  |
| Tubular Su         | mmary   |  |           |  |   | _  |  |  |  |  |
| Date               | Dese  | ription  | 1         |  |   |  | Grad   |  |  |  |
|                    | 0.1   |  |           |  |   |  |  | (MD  |  |  |
|                    |   |  | ~         |  |   |  |  |  | -  |  |
|                    |   |  | - 1       |  | -   |  |  | -  | -  |  |
|                    |   |  | -         |  |   |  |  |  |  |  |
|                    | Intermed  | liate Ca   | sing      | 9.62   | 25  | 40.00  |  | - 3  | 3,987  | 5,75   |
|                    | Draduat   | ion Cor  | line      | 6.60   |   | 20.00  |  | -  | -  | 45.50  |
|                    | Froduct   | IOII Cas   | Bund      | 5.50   | "   | 20.00  |  |  | 9  | 15,52  |
| Casing Cer         | ment Sum  | mary   |           |  | -   |  |  | -  |  |  |
| C Date             | No.   |  | g.        | To   | p I   | Botte  | m  | C  | omme   | ents   |
|                    | Sx  | O.D.   | (in)      | (MD  | ft)   | (MD  | ft)  |  |  |  |
|                    |   |  |           | -  | -   |  |  |  |  |  |
|                    |   |  |           |  | -   |  |  |  |  |  |
|                    | 1,100   |  | 9.625     |  | 0   |  |  | 12.6ppg  |  |  |
|                    | 100   |  | 9.625     |  | 787   |  |  | 14.8ppg  |  |  |
|                    | 310   |  | 9.625     | 3,   | 987   | 5  | 000  | 12.6ppg  |  |  |
|                    | 250   |  |           |  |   |  | -  |  |  |  |
|                    |   |  | 9.625     |  | ,000  | 5,   |  | 14.8ppg  |  |  |
|                    | 1,095   |  | 5.500     | 5,   | ,000<br>,662  | 5,<br>10,  | 600  | 14.8ppg<br>12.6ppg   |  |  |
|                    | 1,095   |  |           | 5,   | ,000  | 5,<br>10,  | 600 <sup>-</sup>   |  |  |  |
| Tools/Prob         | 1,095   |  | 5.500     | 5,   | ,000<br>,662  | 5,<br>10,  | 600  | 12.6ppg  |  |  |
| Tools/Prob<br>Date | 1,095<br>720<br>lems Sun  |  | 5.500     | 0 5,<br>0 10,<br>0.D.  | ,000<br>,662<br>,600  | 5,<br>10,<br>15,   | 600 <sup>-</sup>   | 12.6ppg<br>15ppg<br>Top  |  | Bottom   |
|                    | 1,095<br>720<br>lems Sun<br>Tool  | nmary<br>Type  | 5.500     | 0 5,<br>0 10,<br>0.D.<br>(in)  | ,000<br>,662<br>,600  | 5,<br>10,<br>15,<br>I.D.<br>(in)   | 600 ·<br>527 ·   | 12.6ppg<br>15ppg<br>Top<br>MD ft)  |  | Bottom<br>(MD ft)  |
|                    | 1,095<br>720<br>Iems Sun<br>Tool<br>DVT   | mary<br>Type   | 5.500     | 0 5,<br>0 10,<br>0.D.<br>(in)<br>9.62  | ,000<br>,662<br>,600  | 5,<br>10,<br>15,<br>(in)<br>0.000  | 600 ·<br>527 ·   | 12.6ppg<br>15ppg<br>Top<br>MD ft)<br>3,9   | 87   | (MD ft)  |
|                    | 1,095<br>720<br>Iems Sun<br>Tool<br>DVT<br>St   | <b>Type</b><br>, D/O<br>S,C  | 5.500     | 0.D.<br>0.D.<br>(in)<br>9.62<br>5.50   | ,000<br>,662<br>,600<br>5   | 5,<br>10,<br>15,<br>(in)<br>0,000  | 600 ·<br>527 ·   | 12.6ppg<br>15ppg<br>Top<br>MD ft)<br>3,9<br>11,4   | 87   | (MD ft)  |
|                    | 1,095<br>720<br>Iems Sun<br>Tool<br>DVT<br>SS<br>C  | Type<br>7, D/O<br>5,C<br>BP  | 5.500     | 0 5,<br>0 10,<br>0 10,<br>(in)<br>9.62<br>5.50<br>3.50   | 000<br>662<br>600<br>5<br>0   | 5,<br>10,<br>15,<br>(in)<br>0.000<br>0.000   | 600 ·<br>527 ·<br>((   | 12.6ppg<br>15ppg<br>Top<br>MD ft)<br>3,9<br>11,4<br>11,4   | 87<br>43<br>65   | (MD ft)<br>(11,456   |
|                    | 1,095<br>720<br>Iems Sun<br>Tool<br>DVT<br>SS<br>C<br>Ju  | mary<br>Type<br>, D/O<br>S,C<br>BP<br>unk  | 5.500     | 0 5,<br>0 10,<br>0 10,<br>(in)<br>9,62<br>5,50<br>3,50<br>4,00   | 000<br>662<br>600<br>5<br>0<br>0  | 5,<br>10,<br>15,<br>(in)<br>0.000<br>0.000<br>1.500  | 600 ·<br>527 ·<br>((   | 12.6ppg<br>15ppg<br>MD ft)<br>3,9<br>11,4<br>11,4<br>11,4  | 87<br>43<br>65<br>87   | (MD ft)<br>(11,456<br>(11,549  |
|                    | 1,095<br>720<br>Iems Sun<br>Tool<br>DVT<br>SS<br>C<br>C<br>Ju   | nmary<br>Type<br>, D/O<br>S,C<br>BP<br>Ink<br>Restr  | 5.500     | 0 5,<br>0 10,<br>0 0.D.<br>(in)<br>9,622<br>5,500<br>3,500<br>4,000<br>4,775   | 000<br>662<br>600<br>5<br>0<br>0<br>0<br>8  | 5,<br>10,<br>15,<br>(in)<br>0.000<br>0.000<br>1.500<br>4.00  | 600 ·<br>527 ·<br>(()<br>0<br>0  | 12.6ppg<br>15ppg<br><b>Top</b><br><b>MD ft)</b><br>3,9<br>11,4<br>11,4<br>11,4<br>11,5   | 87<br>43<br>65<br>87<br>79   | (MD ft)<br>(11,450<br>(11,545<br>11,618  |
|                    | I,095<br>720<br>Iems Sun<br>DVT<br>SS<br>C<br>C<br>Ju<br>ID F   | mmary<br>Type<br>, D/O<br>S,C<br>BP<br>ink<br>Restr<br>S,C   | 5.500     | 0 5,<br>0 10,<br>(in)<br>9.62<br>5.500<br>4.000<br>4.77<br>5.500   | 000<br>662<br>600<br>55<br>0<br>0<br>0<br>0   | 5,<br>10,<br>15,<br>(in)<br>0.000<br>0.000<br>1.500<br>4.00  | 600 ·<br>527 ·<br>((<br>0<br>0<br>0  | 12.6ppg<br>15ppg<br>Top<br>MD ft)<br>3,9<br>11,4<br>11,4<br>11,4<br>11,5<br>11,5   | 87<br>43<br>65<br>87<br>79<br>88   | (MD ft)<br>(11,456<br>(11,545<br>(11,545)<br>(11,617)<br>(11,617)  |
|                    | 1,095<br>720<br>Iems Sun<br>DVT<br>C<br>C<br>JU<br>ID F<br>SS<br>HIC,   | Type<br>7, D/O<br>5,C<br>BP<br>unk<br>Restr<br>5,C<br>sqzd   | 5.500     | 0 5,<br>0 10,<br>0.D.<br>(in)<br>9,622<br>5,500<br>3,500<br>4,000<br>4,775<br>5,500<br>5,500   | 0000<br>6622<br>6000<br>55<br>00<br>00<br>00<br>00<br>00  | 5,<br>10,<br>15,<br>(in)<br>0,000<br>0,000<br>1,500<br>4,000<br>0,000<br>0,000   | 600<br>527<br>(0<br>0<br>0<br>0  | 12.6ppg<br>15ppg<br><b>Top</b><br><b>MD ft)</b><br>3,9<br>11,4<br>11,4<br>11,4<br>11,5<br>11,5<br>11,5   | 87<br>43<br>65<br>87<br>79<br>88<br>96   | (MD ft)<br>(11,456<br>(11,545<br>(11,545)<br>(11,617)<br>(11,617)  |
|                    | 1,095<br>720<br>Iems Sun<br>DVT<br>SS<br>C<br>JL<br>ID F<br>SS<br>HIC,<br>C   | Type<br>7, D/O<br>5,C<br>BP<br>Ink<br>Restr<br>5,C<br>sqzd<br>BP   | 5.500     | 0 5,<br>0 10,<br>(in)<br>9,622<br>5,500<br>3,500<br>4,000<br>4,777<br>5,500<br>5,500<br>3,500<br>3,500   | 000<br>662<br>600<br>5<br>5<br>0<br>0<br>0<br>8<br>0<br>0<br>0  | 5,<br>10,<br>15,<br>(in)<br>0.000<br>0.000<br>1.500<br>4.00<br>0.000<br>0.000<br>0.000   | 600 /<br>527 /<br>0<br>0<br>0<br>0   | 12.6ppg<br>15ppg<br>Top<br>MD ft)<br>3,9<br>11,4<br>11,4<br>11,4<br>11,5<br>11,5<br>11,5<br>11,6   | 87<br>43<br>65<br>87<br>79<br>88<br>96<br>65   | (MD ft)<br>(11,450<br>(11,545<br>(11,545<br>(11,617<br>(11,607)<br>(11,596)<br>(11,596)  |
|                    | 1,095<br>720<br>Iems Sun<br>DVT<br>SS<br>C<br>JL<br>ID F<br>SS<br>HIC,<br>C   | nmary<br>Type<br>7, D/O<br>S,C<br>BP<br>Ink<br>Restr<br>S,C<br>sqzd<br>BP<br>S,C   | 5.500     | 0 5,<br>0 10,<br>0.D.<br>(in)<br>9.623<br>5.500<br>3.500<br>4.000<br>4.775<br>5.500<br>5.500<br>3.500<br>5.500   | 000<br>662<br>600<br>5<br>5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 5,<br>10,<br>15,<br>15,<br>0.000<br>0.000<br>1.500<br>4.000<br>0.000<br>0.000<br>0.000<br>0.000  | 600<br>527<br>((<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 12.6ppg<br>15ppg<br><b>Top</b><br><b>MD ft)</b><br>3,9<br>11,4<br>11,4<br>11,4<br>11,5<br>11,5<br>11,5<br>11,6<br>11,6   | 87<br>43<br>65<br>87<br>79<br>88<br>96<br>65<br>89   | (MD ft)<br>(11,450<br>(11,545<br>(11,545<br>(11,617)<br>(11,590<br>(11,70)   |
|                    | 1,095<br>720<br>Iems Sun<br>DVT<br>SS<br>C<br>Ju<br>ID F<br>SS<br>HIC,<br>C   | nmary<br>Type<br>5, D/O<br>5,C<br>BP<br>ink<br>Restr<br>5,C<br>5,C<br>5,C<br>5,C<br>5,C  | 5.500     | 0 5,<br>0 10,<br>0.D.<br>(in)<br>9.62<br>5.50<br>3.50<br>4.00<br>4.77<br>5.50<br>5.50<br>3.50<br>5.50<br>5.50  | 0000<br>662<br>6000<br>5<br>5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                        | 5,<br>10,<br>15,<br>0.000<br>0.000<br>1.500<br>4.00<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000   | 600 / / / / / / / / / / / / / / / / / /                                      | 12.6ppg<br>15ppg<br><b>Top</b><br><b>MD ft)</b><br>3,9<br>11,4<br>11,4<br>11,5<br>11,5<br>11,5<br>11,6<br>11,6<br>11,7   | 87<br>43<br>65<br>87<br>79<br>88<br>96<br>65<br>65<br>89<br>89   | (MD ft)<br>(11,450<br>(11,545<br>(11,545<br>(11,617)<br>(11,590<br>(11,70)   |
|                    | 1,095<br>720<br>Iems Sun<br>DVT<br>SS<br>C<br>Ju<br>ID F<br>SS<br>HIC,<br>C   | nmary<br>Type<br>7, D/O<br>S,C<br>BP<br>Ink<br>Restr<br>S,C<br>sqzd<br>BP<br>S,C   | 5.500     | 0 5,<br>0 10,<br>0.D.<br>(in)<br>9.623<br>5.500<br>3.500<br>4.000<br>4.775<br>5.500<br>5.500<br>3.500<br>5.500   | 0000<br>662<br>6000<br>5<br>5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                        | 5,<br>10,<br>15,<br>15,<br>0.000<br>0.000<br>1.500<br>4.000<br>0.000<br>0.000<br>0.000<br>0.000  | 600 / / / / / / / / / / / / / / / / / /                                      | 12.6ppg<br>15ppg<br><b>Top</b><br><b>MD ft)</b><br>3,9<br>11,4<br>11,4<br>11,4<br>11,5<br>11,5<br>11,5<br>11,6<br>11,6   | 87<br>43<br>65<br>87<br>79<br>88<br>96<br>65<br>65<br>89<br>89   | (MD ft)<br>(11,450<br>(11,545<br>(11,545<br>(11,617)<br>(11,590<br>(11,70)   |
|                    | 1,095           720           lems Sun           DVT           SS           C           JLD F           SS           HIC,           C           SS           SS           SS           SS           SS           C           SS           C           SS           C           SS   | nmary<br>Type<br>5, D/O<br>5,C<br>BP<br>ink<br>Restr<br>5,C<br>5,C<br>5,C<br>5,C<br>5,C  | 5.500     | 0.D.<br>(in)<br>9.62<br>5.50<br>3.50<br>4.00<br>4.77<br>5.50<br>5.50<br>3.50<br>5.50<br>5.50   | 0000<br>6622<br>6000<br>5<br>5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0        | 5,<br>10,<br>15,<br>0.000<br>0.000<br>1.500<br>4.00<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000   |  | 12.6ppg<br>15ppg<br><b>Top</b><br><b>MD ft)</b><br>3,9<br>11,4<br>11,4<br>11,5<br>11,5<br>11,5<br>11,6<br>11,6<br>11,7   | 87<br>43<br>65<br>87<br>79<br>88<br>89<br>65<br>89<br>65   | (MD ft)<br>(11,450<br>(11,545<br>11,610<br>11,600<br>(11,600<br>(11,700<br>(11,700)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11,800)<br>(11 |
|                    | 1,095           720           lems Sun           DVT           SS           C           JLD F           SS           C           SS           C           SS           C           SS           SS           C  | Type<br>, D/O<br>S,C<br>BP<br>Ink<br>Restr<br>S,C<br>Sqzd<br>BP<br>S,C<br>S,C<br>BP<br>BP<br>S,C<br>BP   | 5.500     | O         5,           0         10,           0         10,           0         10,           9,622         5,500           3,500         4,000           4,771         5,500           5,500         3,500           5,500         3,500           5,500         3,500           5,500         3,500   | 000<br>662<br>600<br>5<br>5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0           | 5,<br>10,<br>15,<br>(in)<br>0.000<br>0.000<br>1.500<br>4.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000  |  | 12.6ppg<br>15ppg<br>15ppg<br>15ppg<br>11,4<br>11,4<br>11,4<br>11,5<br>11,5<br>11,5<br>11,6<br>11,6<br>11,7<br>11,8   | 87<br>43<br>65<br>87<br>79<br>88<br>96<br>65<br>89<br>65<br>91   | (MD ft)<br>(11,450<br>(11,545<br>(11,545<br>(11,617<br>(11,590<br>(11,70)<br>(11,70)<br>(11,805<br>(11,900   |
|                    | 1,095           720           lems Sun           DVT           SS           C           JL           IDF           SS           C           SS           C           SS           C           SS           C           SS           C           SS           C           SS           SS           C           SS           C           SS           SS           SS  | Type<br>, D/O<br>S,C<br>BP<br>Ink<br>Restr<br>S,C<br>Sqzd<br>BP<br>S,C<br>BP<br>S,C<br>BP<br>S,C   | 5.500     | O.D. 5,<br>(in)<br>9,622<br>5,500<br>4,000<br>4,777<br>5,500<br>5,500<br>5,500<br>5,500<br>5,500<br>5,500<br>5,500   | 000<br>662<br>600<br>5<br>5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 5,<br>10,<br>15,<br>(in)<br>0,000<br>0,000<br>1,500<br>1,500<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000  |  | 12.6ppg<br>15ppg<br>15ppg<br>15ppg<br>11,4<br>11,4<br>11,4<br>11,5<br>11,5<br>11,5<br>11,6<br>11,6<br>11,7<br>11,8<br>11,8   | 87<br>43<br>65<br>87<br>79<br>88<br>96<br>65<br>89<br>65<br>91<br>91   | (MD ft)<br>(11,450<br>(11,545<br>(11,545<br>(11,617<br>(11,590<br>(11,70)<br>(11,70)<br>(11,805<br>(11,900   |
|                    | 1,095           720           lems Sun           DVT           SS           C           JL           IDF           SS           HIC,           C           SS           HIC,           C           SS           C           SS           C           SS           C  | Type<br>, D/O<br>S,C<br>BP<br>Ink<br>Restr<br>S,C<br>sqzd<br>BP<br>S,C<br>S,C<br>BP<br>S,C<br>S,C<br>S,C<br>S,C  | 5.500     | 0.D.<br>(in)<br>9.622<br>5.500<br>3.500<br>4.000<br>4.777<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500  | 0000<br>6622<br>6000<br>5<br>5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 5,<br>10,<br>15,<br>(in)<br>0,000<br>0,000<br>1,500<br>4,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000                                      |  | 12.6ppg<br>15ppg<br>Top<br>MD ft)<br>3,9<br>11,4<br>11,5<br>11,5<br>11,6<br>11,6<br>11,6<br>11,7<br>11,8<br>11,8<br>11,9<br>11,9   | 87<br>43<br>65<br>87<br>79<br>88<br>96<br>65<br>89<br>65<br>91<br>91<br>91   | (MD ft)<br>(11,454<br>(11,545<br>(11,545<br>(11,545<br>(11,549<br>(11,599<br>(11,70)<br>(11,800<br>(11,900<br>(11,900<br>(12,000<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11,900<br>(11   |
|                    | 1,095           720           lems Sun           DVT           SS           JL           IDF           SS           HIC,           C           SS           HIC,           C           SS           SS           SS           SS           SS           SS           C           SS           SS           SS           C           SS           C           SS           C           SS           C           SS           SS           C           SS           SS | Immary           Type           , D/O           S,C           BP           unk           Restr           S,C           BP           BB           S,C   | 5.500     | 0.D.<br>(in)<br>9.622<br>5.500<br>3.500<br>4.000<br>4.000<br>4.777<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500   | 0000<br>6622<br>6000<br>55<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00                | 5,<br>10,<br>15,<br>15,<br>0,000<br>0,000<br>1,500<br>4,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000   |  | Top<br>MD ft)<br>3,9<br>11,4<br>11,4<br>11,5<br>11,5<br>11,5<br>11,6<br>11,6<br>11,7<br>11,8<br>11,8<br>11,8<br>11,9<br>12,0<br>12,0   | 87<br>43<br>65<br>87<br>79<br>88<br>96<br>65<br>89<br>65<br>91<br>91<br>65<br>91   | (MD ft)<br>(11,45(<br>11,54)<br>11,54(<br>11,54)<br>11,61<br>11,59<br>(<br>11,70)<br>11,80<br>(<br>11,70)<br>11,80<br>(<br>11,90<br>(<br>11,90<br>(<br>12,10<br>(<br>12,10)  |
|                    | 1,095           720           lems Sun           DVT           SS           JL           IDF           IDF           IDF           IDF           SS           HIC,           C           SS           SS           SS           SS           C           SS           C           SS           C           SS           C           SS           C           SS           SS           SS   | Immary           Type           , D/O           S,C           BP           unk           Restr           S,C   | 5.500     | 0.D.<br>(in)<br>9.622<br>5.500<br>3.500<br>4.000<br>4.777<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500   | 000<br>662<br>600<br>55<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0     | 5,<br>10,<br>15,<br>0,000<br>0,000<br>1,500<br>4,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000 |  | 12.6ppg<br>15ppg<br>15ppg<br>11,4<br>11,4<br>11,5<br>11,5<br>11,5<br>11,5<br>11,6<br>11,6<br>11,6<br>11,7<br>11,8<br>11,8<br>11,8<br>11,9<br>12,0<br>12,0<br>12,0  | 87<br>43<br>65<br>87<br>79<br>88<br>96<br>65<br>89<br>96<br>65<br>91<br>91<br>95   | (MD ft)<br>(11,45(<br>11,54)<br>11,54(<br>11,54)<br>11,61<br>11,59<br>(<br>11,70)<br>11,80<br>(<br>11,70)<br>11,80<br>(<br>11,90<br>(<br>11,90<br>(<br>12,10<br>(<br>12,10)  |
|                    | 1,095           720           lems Sun           DVT           SS           JL           IDF           IDF           IDF           IDF           SS           HIC,           C           SS           SS           C           SS           SS           C           SS           SS           SS           C           SS           SS           C           SS           SS           C   | Immary           Type           5,C           5,C           BP           unk           Restr           5,C           S,C           BP           BP           BP  | 5.500     | 0.D.<br>(in)<br>9.622<br>5.500<br>3.500<br>4.000<br>4.777<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.500<br>5.5000<br>5.5000<br>5.5000<br>5.5000<br>5.5000<br>5.5000<br>5.5000<br>5.5000<br>5.500 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ft)<br>11,456<br>11,549<br>11,549<br>11,610<br>11,600<br>11,700<br>(11,700<br>11,800<br>(11,700<br>11,800<br>(11,900<br>12,000<br>(12,100<br>12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,200<br>(12,   |
|                    | 1,095           720           lems Sun           DVT           SS           C           JL           IDF           IDF           IDF           IDF           SS           C           C           SS           C           SS           C           SS           C           SS           SS           C           SS           C           SS           C           SS           C           SS           C           SS           SS           SS           SS  | Immary           Type           5,C           5,S,C           8,S,C           5,C  | 5.500     | O.D.         (in)           9.62:         5.500           3.500         5.500           3.500         5.500           3.500         5.500           5.500         5.500           5.500         5.500           5.500         5.500           5.500         5.500           5.500         5.500           5.500         5.500           5.500         5.500           5.500         5.500           5.500         5.500           5.500         5.500  | 000<br>662<br>600<br>5<br>5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 5,<br>10,<br>15,<br>10,<br>15,<br>10,<br>10,<br>10,<br>10,<br>10,<br>10,<br>10,<br>10,<br>10,<br>10  |  | 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|                    | 1,095           720           lems Sun           DVT           SS           C           JL           IDF           IDF           IDF           IDF           SS           C           C           SS           C           SS           C           SS           C           SS           SS           C           SS           C           SS           C           SS           SS           SS           SS           SS           SS           SS   | Immery           Type           5,C  | 5.500     | O.D.         (in)           9.62:         5.500           3.500         5.500           3.500         5.500           3.500         5.500           5.500         3.500           5.500         3.500           5.500         3.500           5.500         3.500           5.500         5.500           5.500         5.500           5.500         5.500           5.500         5.500  |   | 5,<br>10,<br>15,<br>10,<br>15,<br>10,<br>10,<br>10,<br>10,<br>10,<br>10,<br>10,<br>10,<br>10,<br>10  |  | 12.6ppg<br>15ppg<br>15ppg<br>11,4<br>11,4<br>11,5<br>11,5<br>11,5<br>11,5<br>11,6<br>11,6<br>11,6<br>11,7<br>11,8<br>11,8<br>11,9<br>12,0<br>12,0<br>12,1<br>12,2<br>12,3<br>12,4  | 87<br>43<br>65<br>87<br>79<br>88<br>89<br>65<br>89<br>65<br>91<br>91<br>91<br>91<br>65<br>91<br>91<br>95<br>65<br>00<br>04 | (MD ft)<br>(11,456<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,617<br>(11,596<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(12,704<br>(12,704<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12   |
|                    | 1,095           720           lems Sun           DVT           SS           C           JL           IDF           IDF           IDF           SS           CC  | Immery           Type           5,C           5,S,C           8P           5,C           5,C | 5.500     | O.D.         (in)           9.62:         5.500           3.500         5.500           3.500         5.500           3.500         5.500           5.500         3.500           5.500         3.500           5.500         3.500           5.500         3.500           5.500         3.500           5.500         3.500           5.500         3.500           5.500         3.500           5.500         3.500  |   | 5,<br>10,<br>15,<br>10,<br>15,<br>10,<br>10,<br>10,<br>10,<br>10,<br>10,<br>10,<br>10,<br>10,<br>10  |  | 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ft)<br>(11,456<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,700<br>(11,904<br>(11,904<br>(12,104<br>(12,104<br>(12,206<br>(12,214<br>(12,214<br>(12,214<br>(12,214<br>(12,214<br>(12,214<br>(12,214<br>(12,214<br>(12,214)<br>(12,214<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,214)<br>(12,2   |
|                    | 1,095           1,095           720           lems Sun           DVT           SS           C           JL           IDF           SS           C           IDF           SS           C           SS           C           SS           C           SS           SS           C           SS           C           SS           C           SS           C           SS           C           SS           SS   | Immery           Type           5,C  | 5.500     | O.D.         (in)           9.62:         5.500           3.500         5.500           3.500         5.500           3.500         5.500           5.500         3.500           5.500         3.500           5.500         3.500           5.500         3.500           5.500         3.500           5.500         5.500           5.500         5.500           5.500         5.500  |   | 5,<br>10,<br>15,<br>10,<br>15,<br>10,<br>10,<br>10,<br>10,<br>10,<br>10,<br>10,<br>10,<br>10,<br>10  |  | 12.6ppg<br>15ppg<br>15ppg<br>11,4<br>11,4<br>11,5<br>11,5<br>11,5<br>11,5<br>11,6<br>11,6<br>11,6<br>11,7<br>11,8<br>11,8<br>11,9<br>12,0<br>12,0<br>12,1<br>12,2<br>12,3<br>12,4  | 87<br>43<br>65<br>87<br>96<br>65<br>89<br>96<br>65<br>91<br>91<br>95<br>65<br>91<br>95<br>65<br>00<br>04<br>668<br>007     | (MD ft)<br>(11,456<br>(11,545<br>(11,545<br>(11,545<br>(11,545<br>(11,617<br>(11,596<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(11,702<br>(12,704<br>(12,704<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12,702<br>(12   |

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| Date     | Тооі Туре   | O.D.<br>(in) | I.D.<br>(in)   | Top<br>(MD f | t)    | Bott<br>(MD |       |
|----------|---|--------------|--|--------------|-------|-------------|-------|
|          | CBP   | 3.500        | 0.0  | 00 12        | 2,660 |             |       |
|          | SS,C  | 5.500        | 0.0  | 00 12        | 2,710 |             | 12,72 |
|          | SS,C  | 5.500        | 0.0  | 00 12        | 2,813 | 1           | 12,82 |
|          | CBP   | 3.500        | 0.0  | 00 12        | 2,865 |             |       |
|          | SS,C  | 5.500        | 0.0  | 00 12        | 2,916 | 1           | 12,92 |
|          | SS,C  | 5.500        | 0.0  | 00 13        | 3,017 |             | 13,03 |
|          | CBP   | 3.500        | 0.0  | 00 13        | 3,065 |             |       |
|          | SS,C  | 5,500        | 0.0  | 00 13        | 3,120 |             | 13,13 |
|          | SS,C  | 5.500        |  |              | 3,218 |             | 13,23 |
|          | CBP   | 3.500        |  |              | 3,265 | -           | 10,20 |
|          |   |              |  |              |       |             | 10.00 |
|          | SS,C  | 5.500        |  |              | 3,319 |             | 13,33 |
|          | SS,C  | 5.500        |  |              | 3,419 |             | 13,43 |
|          | CBP   | 3.500        | 0.0  | 00 13        | 3,465 |             |       |
|          | SS,C  | 5.500        | 0.0  | 00 13        | 3,517 |             | 13,52 |
|          | SS,C  | 5.500        | 0.0  | 00 13        | 3,619 |             | 13,63 |
|          | CBP   | 3.500        | 0.0  | 00 13        | 3,665 |             |       |
|          | SS,C  | 5.500        | 0.0  | 00 13        | 3,715 |             | 13,72 |
|          | SS,C  | 5.500        |  |              | 3,813 |             | 13,82 |
|          | CBP   | 3.500        |  |              | 3,865 |             | 10,01 |
|          | in the second |              | 1 1 2 2  |              |       |             | 10.00 |
|          | SS,C  | 5.500        |  |              | 3,915 |             | 13,92 |
|          | SS,C  | 5.500        |  |              | 4,014 |             | 14,02 |
|          | CBP   | 3.500        | 0.0  | 00 14        | 4,065 |             |       |
|          | SS,C  | 5.500        | 0.0  | 00 14        | 4,112 |             | 14,12 |
|          | SS,C  | 5.500        | 0.0  | 00 14        | 4,211 |             | 14,22 |
|          | CBP   | 3,500        | 0.0  | 00 14        | 4,265 |             |       |
|          | SS,C  | 5.500        | 0.0  |              | 4,315 |             | 14,32 |
|          | SS,C  | 5.500        | 100 March 100 Ma | -            | 4,414 |             | 14,42 |
|          |   | 3.500        |  |              |       |             | 14,44 |
|          | CBP   |              |  |              | 4,465 | _           |       |
|          | SS,C  | 5.500        |  |              | 4,517 |             | 14,53 |
|          | SS,C  | 5.500        |  |              | 4,615 |             | 14,62 |
|          | CBP   | 3.500        | 0.0  | 00 14        | 4,665 |             |       |
|          | SS,C  | 5.500        | 0.0  | 00 14        | 4,715 |             | 14,72 |
|          | SS,C  | 5.500        | 0.0  | 00 14        | 4,815 |             | 14,82 |
|          | CBP   | 3.500        | 0.0  | 00 14        | 4,865 |             |       |
|          | SS,C  | 5.500        | 0.0  | 00 14        | 4,916 |             | 14,92 |
|          | CBP   | 3.500        | 0.0  |              | 5,015 |             |       |
|          | SS,O  | 5.500        |  |              | 5,020 |             | 15,03 |
|          | SS,C  | 5.500        |  |              | 5,121 |             | 15,13 |
|          |   |              |  |              |       |             |       |
|          | SS,C  | 5,500        |  |              | 5,221 |             | 15,23 |
|          | SS,C  | 5.500        |  |              | 5,325 |             | 15,33 |
|          | SS,C  | 5.500        |  | 00 1         | 5,425 |             | 15,43 |
|          | FC  | 5.500        |  |              | 5,479 |             |       |
|          | GS  | 5.500        | 0.0  | 00 1         | 5,525 |             |       |
| rforatio | Summary   |              |  | _            |       |             |       |
| Date     | Perf. Status  | Formati      | on   | OA Top       | OA B  | ottom       | Shot  |
|          |   |              |  | (MD ft)      |       | Oft)        |       |
|          | Open  | 3rd Bone Sp  | -  | 11,475       | -     | 11,628      | 4     |
|          | Open  | 3rd Bone Sp  | pring  | 11,675       |       | 11,828      | 4     |
|          | Open  | 3rd Bone Sp  | oring  | 11,885       | 1     | 12,033      | 4     |
|          | Open  | 3rd Bone Sp  | oring  | 12,065       | 1     | 12,243      | 4     |
|          | Open  | 3rd Bone Sp  | oring  | 12,280       | 1     | 12,443      | 4     |
|          | Open  | 3rd Bone Sp  | oring  | 12,490       | 1     | 12,643      | 4     |
|          | Open  | 3rd Bone Sp  |  | 12,690       |       | 12,843      | 4     |
|          |   |              | -  |              |       |             |       |
|          | Open  | 3rd Bone Sp  | -  | 12,890       |       | 13,043      | -     |
|          | Open  | 3rd Bone Sp  | -  | 13,090       |       | 13,243      | 4     |
|          | Open  | 3rd Bone Sp  | -  | 13,290       |       | 13,443      | 4     |
|          | Open  | 3rd Bone Sp  | oring  | 13,490       | 1     | 13,643      |       |
|          | Open  | 3rd Bone Sp  | oring  | 13,690       | 1     | 13,973      | 4     |
|          | Open  | 3rd Bone Sp  | oring  | 13,890       | 1     | 14,043      |       |
|          | Open  | 3rd Bone Sp  | -  | 14,090       |       | 14,242      | :     |
|          | Open  | 3rd Bone Sp  | -  | 14,000       |       | 14,442      |       |
|          |   |              | anuu I   | 14,230       | 1     |             |       |
|          |   |              | -  |              | -     | 14.0.40     | -     |
|          | Open  | 3rd Bone Sp  | oring  | 14,490       |       | 14,642      |       |

Open Open Formation Tops Summary 3rd Bone Spring

Open

| Formation   | Top<br>(TVD ft) | Comments |  |
|-------------|-----------------|----------|--|
| Rustler     | 1,869           |          |  |
| Top of Salt | 2,447           |          |  |
| Castile     | 3,881           |          |  |

3rd Bone Spring

3rd Bone Spring

14,842

14,987

15,467

36 36

36 66

14,690

14,895

15,090

| Formation             | Top<br>(TVD ft) | Comments |   |
|-----------------------|-----------------|----------|---|
| Base of Salt          | 4,280           |          |   |
| Yates                 | 4,443           |          |   |
| Lamar Lime            | 5,739           |          | _ |
| Delaware              | 5,834           |          | _ |
| Cherry Canyon         | 6,052           |          | _ |
| Brushy Canyon         | 7,409           |          |   |
| Lower Brushy Canyon   | 8,458           |          |   |
| Bone Spring Glorietta | 8,718           |          | _ |
| Avalon Shale          | 8,792           |          |   |
| Avalon                | 8,793           |          | _ |
| Base Avalon           | 8,998           |          |   |
| 2nd Avalon            | 9,253           |          |   |
| 1st Bone Spring       | 9,704           |          | - |
| 2nd Bone Spring       | 10,281          |          |   |
| 3rd Bone Spring       | 11,103          |          | _ |

| Field Nam  | e      |              | Leas  | e Name         |             | Well  | No.      | Cou   | nty   |           | State | Ð         | API N     | 0.      |          |
|------------|--------|--------------|-------|----------------|-------------|-------|----------|-------|-------|-----------|-------|-----------|-----------|---------|----------|
| Lennox     |        |              | Lenno | ox 32 State    |             | 4H    |          | Lea   |       |           | New   | Mexico    | 30025     | 412700  | 000      |
| Version    |        | Version Tag  |       |                |             |       |          |       |       | Spud Dat  | te    | Comp. Dat | e GL (ft  | )       | KB (ft)  |
|            | 1      | completed    |       |                |             |       |          |       |       | 8/16/     | 2014  | 5/19/20   | 16        | 3,456.0 | 3,476    |
| Section    | To     | wnship/Block |       | Range/Surve    | y           | Dist. | N/S (ft) | N/S L | ine   | Dist. E/W | (ft)  | E/W Line  | Footage   | From    |          |
| 32         | 22     | S            |       | 35E            |             |       | 330      | FSL   |       |           | 660   | FWL       | Section   |         |          |
| Operator   | -      |              |       |                | Well Status | -     |          |       | Latit | tude      | -     | Longitude |           | Prop    | Num      |
| Caza Oil a | nd G   | as, Inc      |       |                | Completed   |       |          |       |       |           |       |           |           |         |          |
| OGRID      |        |              | N     | Vell Type      |             |       | Pool Na  | me an | nd Nu | mber      |       | Lease     | No. and E | Bond No | <b>.</b> |
| 249099     |        |              | H     | lorizontal Oil |             |       |          |       |       |           |       | Rock L    | ake; Bone | Spring  |          |
| Last Upda  | ted    |              | -     | Prepared By    |             |       |          |       |       | Updated   | By    |           |           |         |          |
| 05/26/2016 | 6 6:2  | 4 AM         |       | Steve Morris   |             |       |          |       |       | Steve M   | orris |           |           |         |          |
| Additional | I Info | rmation      |       |                |             |       |          |       |       |           | _     |           |           |         |          |

### Hole Summary

| Date      | O.D. (in) | Top<br>(MD ft) | Bottom<br>(MD ft) |           |    |       |     | Cor    | nments   |
|-----------|-----------|----------------|-------------------|-----------|----|-------|-----|--------|----------|
|           | 26.000    | 0              | 139               |           |    |       |     |        |          |
|           | 17.500    | 139            | 703               |           |    |       |     |        |          |
|           | 12.250    | 703            | 5,760             |           |    |       |     |        |          |
|           | 8.750     | 5,760          | 15,545            |           |    |       |     |        |          |
| Tubular S | ummary    |                |                   |           |    |       |     |        |          |
| Date      | De        | scription      | No                | O.D. (in) | Wt | Grade | Тор | Bottom | Comments |

| Date | Description         | Jts | 0.0. (11) | (lb/ft) | Glade   | (MD ft) | (MD ft) | Commenta  |
|------|---------------------|-----|-----------|---------|---------|---------|---------|---|
|      | Conductor Casing    |     | 20.000    | 94.00   |         | 0       | 139     |   |
|      | Surface Casing      |     | 13.375    | 48.00   | H-40    | 0       | 703     | ID 12.715" Burst 1730 Collapse 770 Tensile 322,000  |
|      | Intermediate Casing |     | 9.625     | 40.00   | J-55    | 0       | 3,987   | ID 8.835" Burst 3950 Collapse 2570 Tensile 630,000  |
|      | Intermediate Casing |     | 9.625     | 40.00   | HCK-80  | 3,987   | 5,752   | ID 8.835" Burst 5750 Collapse 4230 Tensile 837,000  |
|      | Production Casing   |     | 5.500     | 20.00   | HCP-110 | 0       | 15,527  | ID 4.892" Burst 10640 Collapse 7480 Tensile 546,000 |

## Casing Cement Summary

|   | Date | No.<br>Sx | Yield<br>(ft3/sk) | Vol.<br>(ft3) | Csg.<br>O.D. (in) | Top<br>(MD ft) | Bottom<br>(MD ft) | Description                       | Comments |
|---|------|-----------|-------------------|---------------|-------------------|----------------|-------------------|-----------------------------------|----------|
|   |      | 390       | 1.75              | 683           | 13.375            | 0              | 403               | Class C with 4% Gel + 2%<br>CaCl2 |          |
|   |      | 229       | 1.35              | 309           | 13.375            | 403            | 703               | Class C with 2% CaCl2             | 14.8ppg  |
|   |      | 1,100     | 2.13              | 2,343         | 9.625             | 0              | 3,787             | Class C Lite 65:35                | 12.6ppg  |
|   |      | 100       | 1.35              | 135           | 9.625             | 3,787          | 3,987             | Class C                           | 14.8ppg  |
|   |      | 310       | 2.13              | 660           | 9.625             | 3,987          | 5,000             | Class C 65:35                     | 12.6ppg  |
|   |      | 250       | 1.35              | 338           | 9.625             | 5,000          | 5,752             | Class C                           | 14.8ppg  |
| ī |      | 1,095     | 2.13              | 2,332         | 5.500             | 5,662          | 10,600            | Class H Lite                      | 12.6ppg  |
|   |      | 720       | 1.15              | 828           | 5.500             | 10,600         | 15,527            | Class H Acid soluble              | 15ppg    |

### **Tools/Problems Summary**

| Date | Tool Type               | O.D.<br>(in) | I.D.<br>(in) | Top<br>(MD ft) | Bottom<br>(MD ft) | Description                     | Comments                      |
|------|-------------------------|--------------|--------------|----------------|-------------------|---------------------------------|-------------------------------|
|      | DV tool (drilled out)   | 9.625        | 0.000        | 3,987          | 0                 | 18' long                        |                               |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 11,443         | 11,456            | NCS                             | Sleeve 40                     |
|      | Composite Bridge Plug   | 3.500        | 0.000        | 11,465         | 0                 |                                 | Drilled out                   |
|      | Junk                    | 4.000        | 1.500        | 11,487         | 11,549            | Drillout BHA and 30'<br>of coil |                               |
|      | ID Restriction          | 4.778        | 4.001        | 11,579         | 11,618            | Casing Patch                    |                               |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 11,588         | 11,601            | NCS                             | Sleeve 39                     |
|      | Casing Leak (squeezed)  | 5.500        | 0.000        | 11,596         | 11,598            |                                 | Squeezed cement and well lock |
|      | Composite Bridge Plug   | 3.500        | 0.000        | 11,665         | 0                 | Long Range Gen 2                | Drilled out                   |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 11,689         | 11,702            | NCS                             | Sleeve 38                     |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 11,789         | 11,803            | NCS                             | Sleeve 37                     |
|      | Composite Bridge Plug   | 3.500        | 0.000        | 11,865         | 0                 | Long Range Gen 2                | Drilled out                   |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 11,891         | 11,904            | NCS                             | Sleeve 36                     |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 11,991         | 12,004            | NCS                             | Sleeve 35                     |
|      | Composite Bridge Plug   | 3.500        | 0.000        | 12,065         | 0                 | Long Range Gen 2                | Drilled out                   |
| -    | Sliding Sleeve (closed) | 5,500        | 0.000        | 12,091         | 12,104            | NCS                             | Sleeve 34                     |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 12,195         | 12,208            | NCS                             | Sleeve 33                     |
| _    | Composite Bridge Plug   | 3.500        | 0.000        | 12,265         | 0                 | Long Range Gen 2                | Drilled out                   |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 12,300         | 12,313            | NCS                             | Sleeve 32                     |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 12,404         | 12,417            | NCS                             | Sleeve 31                     |
|      | Composite Bridge Plug   | 3.500        | 0.000        | 12,468         | 0                 | Long Range Gen 2                | Drilled out                   |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 12,507         | 12,520            | NCS                             | Sleeve 30                     |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 12,609         | 12,622            | NCS                             | Sleeve 29                     |
|      | Composite Bridge Plug   | 3.500        | 0.000        | 12,660         | 0                 | Long Range Gen 2                | Drilled out                   |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 12,710         | 12,723            | NCS                             | Sleeve 28                     |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 12,813         | 12,826            | NCS                             | Sleeve 27                     |
|      | Composite Bridge Plug   | 3.500        | 0.000        | 12,865         | 0                 | Long Range Gen 2                | Drilled out                   |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 12,916         | 12,929            | NCS                             | Sleeve 26                     |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 13,017         | 13,030            | NCS                             | Sleeve 25                     |
|      | Composite Bridge Plug   | 3.500        | 0.000        | 13,065         | 0                 | Long Range Gen 2                | Not drilled out               |

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| Date | Tool Type               | O.D.<br>(in) | I.D.<br>(in) | Top<br>(MD ft) | Bottom<br>(MD ft) | Description      | Comments        |
|------|-------------------------|--------------|--------------|----------------|-------------------|------------------|-----------------|
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 13,120         | 13,133            | NCS              | Sleeve 24       |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 13,218         | 13,231            | NCS              | Sleeve 23       |
|      | Composite Bridge Plug   | 3.500        | 0.000        | 13,265         | 0                 | Long Range Gen 2 | Not drilled out |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 13,319         | 13,331            | NCS              | Sleeve 22       |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 13,419         | 13,432            | NCS              | Sleeve 21       |
|      | Composite Bridge Plug   | 3.500        | 0.000        | 13,465         | 0                 | Long Range Gen 2 | Not drilled out |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 13,517         | 13,529            | NCS              | Sleeve 20       |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 13,619         | 13,631            | NCS              | Sleeve 19       |
|      | Composite Bridge Plug   | 3.500        | 0.000        | 13,665         | 0                 | Long Range Gen 2 | Not drilled out |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 13,715         | 13,728            | NCS              | Sleeve 18       |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 13,813         | 13,826            | NCS              | Sleeve 17       |
| 0    | Composite Bridge Plug   | 3.500        | 0.000        | 13,865         | 0                 | Long Range Gen 2 | Not drilled out |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 13,915         | 13,928            | NCS              | Sleeve 16       |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 14,014         | 14,026            | NCS              | Sleeve 15       |
|      | Composite Bridge Plug   | 3.500        | 0.000        | 14,065         | 0                 | Long Range Gen 2 | Not drilled out |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 14,112         | 14,125            | NCS              | Sleeve 14       |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 14,211         | 14,224            | NCS              | Sleeve 13       |
|      | Composite Bridge Plug   | 3.500        | 0.000        | 14,265         | 0                 | Long Range Gen 2 | Not drilled out |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 14,315         | 14,328            | NCS              | Sleeve 12       |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 14,414         | 14,427            | NCS              | Sleeve 11       |
|      | Composite Bridge Plug   | 3.500        | 0.000        | 14,465         | 0                 | Long Range Gen 2 | Not drilled out |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 14,517         | 14,530            | NCS              | Sleeve 10       |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 14,615         | 14,628            | NCS              | Sleeve 9        |
|      | Composite Bridge Plug   | 3.500        | 0.000        | 14,665         | 0                 | Long Range Gen 2 | Not drilled out |
|      | Sliding Sleeve (closed) | 5:500        | 0.000        | 14,715         | 14,728            | NCS              | Sleeve 8        |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 14,815         | 14,828            | NCS              | Sleeve 7        |
|      | Composite Bridge Plug   | 3.500        | 0.000        | 14,865         | 0                 | Long Range Gen 2 | Drilled out     |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 14,916         | 14,929            | NCS              | Sleeve 6        |
|      | Composite Bridge Plug   | 3.500        | 0.000        | 15,015         | 0                 | Long Range Gen 2 | Drilled out     |
|      | Sliding Sleeve (open)   | 5.500        | 0.000        | 15,020         | 15,033            | NCS              | Sleeve 5        |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 15,121         | 15,134            | NCS              | Sleeve 4        |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 15,221         | 15,234            | NCS              | Sleeve 3        |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 15,325         | 15,338            | NCS              | Sleeve 2        |
|      | Sliding Sleeve (closed) | 5.500        | 0.000        | 15,425         | 15,437            | NCS              | Sleeve 1        |
|      | Float Collar            | 5.500        | 0.000        | 15,479         | 0                 |                  |                 |
|      | Guide Shoe              | 5.500        | 0.000        | 15,525         | 0                 |                  |                 |

Perf. Status Date Formation Comments С Stage 1 Initial WHP: 3,930 Breakdown: 4,572 Max Pressure: pen 3rd Bone Spring psi psi 8,551 7,713 82.7 76.5 psi psi bpm Avg. Pressure: Max Slurry Rate: Avg. Slurry Rate: 40/70 ProLite: 20/40 ProLite: bpm Ibm / 132,160 466,500 lbm / Top (MD ft) Bottom (MD ft) SPF Shots Phasing (deg) Interval Comments 15,465 15,467 60 12 15,415 15,417 12 60 60 15,365 15,367 10 15,315 15,317 60 8 60 15,240 15,242 6 60 15,190 15,192 6 15,140 15,142 60 6 60 15,090 15,092 Date Perf. Status Comments С Formation Stage 2 Initial WHP: 4,106 Breakdown: 8,254 Max Pressure: 3rd Bone Spring Open psi psi 8,388 7,865 psi psi Max Pressure: Avg. Pressure: Max Slurry Rate: Avg. Slurry Rate: 40/70 ProLite: 20/40 ProLite: 83.1 67.4 bpm bpm 65,000 lbm / 186,600 lbm / Top (MD ft) Bottom SPF Shots Phasing (deg) Interval Comments (MD ft) 14,985 14,987 10 60 14,957 14,955 60 10 14,925 60 14,927 8 60 14,895 14,897 Comments Date Perf. Status Formation С

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|          | st Upda  |   |  |  |  |  |   |   |   |
|----------|--|---|--|--|--|--|---|---|---|
| C        | Date   | Perf. Status  | Form   | ation  |  |  |   | Comments  |   |
|          | C  | Open  | 3rd Bone Sp  | ring   | Stage 3  |  |   |   |   |
|          |  |   |  |  | Initial WHP:   |  | psi   |   |   |
|          |  |   |  |  | Breakdown:   |  | psi   |   |   |
|          |  |   |  |  | Max Pressure   |  | 8,876   | psi   |   |
|          |  |   |  |  | Avg. Pressure  | :  | 7,766   | psi   |   |
|          |  |   |  |  | Max Slurry Ra  |  | 80.6  | bpm   |   |
|          | 1  |   |  |  | Avg. Slurry Ra   |  | 64.8  | bpm   |   |
|          |  |   |  |  | 40/70 ProLite:   |  | 65,100  | lbm /   |   |
|          |  |   |  |  | 20/40 ProLite:   |  | 234,140   | lbm /   |   |
|          | Тор  | Bottom  | SPF  | Shots  | Phasing (deg)  |  |   | Interval Comments   |   |
|          | (MD ft)  | (MD ft)   |  |  |  |  |   |   |   |
|          | 14,84  | 40 14,  | 342 4  | 10   | 60   |  |   |   |   |
|          | 14,79  | 90 14,  | 792 4  | 10   | 60   |  |   |   |   |
|          |  |   |  | 8  |  |  |   |   | _ |
|          | 14,74  |   |  | 1 °  |  |  |   |   |   |
|          | 14,69  | 90 14,  | 692 4  | 4 8  | 60   |  |   |   |   |
| C        | Date   | Perf. Status  | Form   | ation  |  |  |   | Comments  |   |
| <u> </u> |  |   |  |  | 01   |  |   | Commenta  |   |
|          | c  | Open  | 3rd Bone Sp  | ring   | Stage 4  | 1011   |   |   |   |
|          |  |   |  |  | Initial WHP:   |  | psi   |   |   |
|          |  |   |  |  | Breakdown:   |  | psi   |   |   |
|          |  |   |  |  | Max Pressure   |  | 8,501   | psi   |   |
|          |  |   |  |  | Avg. Pressure  |  | 8,000   | psi   |   |
|          |  |   |  |  | Max Slurry Ra  | te:  | 81.0  | bpm   |   |
|          |  |   |  |  | Avg. Slurry Ra   |  | 49.9  | bpm   |   |
|          |  |   |  |  | 40/70 ProLite:   |  | 65,240  | lbm /   |   |
|          |  |   |  |  | 20/40 ProLite:   |  | 240,120   | lbm /   |   |
|          | Тор  | Bottom  | SPF  | Shots  | Phasing (deg)  |  |   | Interval Comments   |   |
|          | (MD ft)  | (MD ft)   |  |  |  |  |   |   |   |
|          | 14,64  | 40 14,  | 642 4  | 10   | 60   |  |   |   |   |
|          | 14,59  |   |  | 10   | 60   |  |   |   |   |
|          |  |   |  |  |  |  |   |   |   |
|          | 14,54  |   |  | 4 8  |  |  |   |   |   |
|          | 14,49  | 90 14,  | 492 4  | 4 8  | 60   |  |   |   |   |
| C        | Date   | Perf. Status  |  | ation  |  |  |   | Comments  | _ |
| 4        |  |   |  |  |  |  |   | Comments  |   |
|          | K  | Open  | 3rd Bone Sp  | ring   | Stage 5  |  |   |   |   |
|          |  |   |  |  | Initial WHP:   |  | psi   |   |   |
|          |  |   | · .  |  | Breakdown:   |  | psi   |   |   |
|          |  |   |  |  | Max Pressure   | :  | 9,159   | psi   |   |
|          |  |   |  |  | Avg. Pressure  | :  | 8,207   | psi   |   |
|          |  |   |  |  | Max Slurry Ra  |  | 80.7  | bpm   |   |
|          |  |   |  |  | Avg. Slurry Ra   | ate:   | 45.6  | bpm   |   |
|          |  |   |  |  | 40/70 ProLite:   |  | 64,560  | lbm /   |   |
|          |  |   |  |  | 20/40 ProLite:   |  | 236,340   | lbm /   |   |
|          | Тор  | Bottom  | SPF  | Shots  | Phasing (deg)  |  |   | Interval Comments   |   |
|          | (MD ft)  | (MD ft)   | J OF T   | 011003   | r nasnig (deg)   |  |   |   |   |
| _        |  |   | 110  | 1  |  |  |   |   |   |
|          | 14.4   | 40 14   | 44/1   | 1  | 60   |  |   |   |   |
| _        | 14,4   |   |  | 1 10   |  |  |   |   |   |
|          | 14,4   |   |  | 10<br>10   |  |  |   |   |   |
|          | 14,3   | 90 14,  | 392  |  | 60   |  |   |   |   |
|          | 14,3<br>14,3   | 90 14,<br>40 14,  | 392 4<br>342 4   | 4 10<br>4 8  | 60<br>60   |  |   |   |   |
|          | 14,3   | 90 14,<br>40 14,  | 392 4<br>342 4   | 10   | 60<br>60   |  |   |   |   |
|          | 14,3<br>14,3<br>14,2   | 90 14,<br>40 14,<br>90 14,  | 392 4<br>342 4<br>292 4  | 4 10<br>4 8  | 60<br>60   |  |   | Comments  |   |
|          | 14,3<br>14,3<br>14,2<br>Date   | 90 14,<br>40 14,<br>90 14,<br>Perf. Status  | 392 4<br>342 4<br>292 Form   | 4 10<br>4 8<br>4 8<br>hation   | 60<br>60<br>. 60   |  |   | Comments  |   |
|          | 14,3<br>14,3<br>14,2<br>Date   | 90 14,<br>40 14,<br>90 14,  | 392 4<br>342 4<br>292 4  | 4 10<br>4 8<br>4 8<br>hation   | 60<br>60<br>60<br>Stage 6  |  | nei   | Comments  |   |
|          | 14,3<br>14,3<br>14,2<br>Date   | 90 14,<br>40 14,<br>90 14,<br>Perf. Status  | 392 4<br>342 4<br>292 Form   | 4 10<br>4 8<br>4 8<br>hation   | 60<br>60<br>Stage 6<br>Initial WHP:  | 4,268  | psi   | Comments  |   |
|          | 14,3<br>14,3<br>14,2<br>Date   | 90 14,<br>40 14,<br>90 14,<br>Perf. Status  | 392 4<br>342 4<br>292 Form   | 4 10<br>4 8<br>4 8<br>hation   | 60<br>60<br>60<br>Stage 6<br>Initial WHP:<br>Breakdown:  | 4,268<br>7,663   | psi   |   |   |
| C        | 14,3<br>14,3<br>14,2<br>Date   | 90 14,<br>40 14,<br>90 14,<br>Perf. Status  | 392 4<br>342 4<br>292 Form   | 4 10<br>4 8<br>4 8<br>hation   | 60<br>60<br>Stage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure  | 4,268<br>7,663   | psi<br>8,767  | psi   |   |
|          | 14,3<br>14,3<br>14,2<br>Date   | 90 14,<br>40 14,<br>90 14,<br>Perf. Status  | 392 4<br>342 4<br>292 Form   | 4 10<br>4 8<br>4 8<br>hation   | 60<br>60<br>Stage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Pressure   | 4,268<br>7,663<br>:  | psi<br>8,767<br>7,363   | psi<br>psi  |   |
| C        | 14,3<br>14,3<br>14,2<br>Date   | 90 14,<br>40 14,<br>90 14,<br>Perf. Status  | 392 4<br>342 4<br>292 Form   | 4 10<br>4 8<br>4 8<br>hation   | 60<br>60<br>Stage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Pressure<br>Max Slurry Ra  | 4,268<br>7,663<br>:<br>:<br>:  | psi<br>8,767<br>7,363<br>80.6   | psi<br>psi<br>bpm   |   |
| C        | 14,3<br>14,3<br>14,2<br>Date   | 90 14,<br>40 14,<br>90 14,<br>Perf. Status  | 392 4<br>342 4<br>292 Form   | 4 10<br>4 8<br>4 8<br>hation   | 60<br>60<br>5tage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Pressure<br>Max Slurry Ra<br>Avg. Slurry Ra  | 4,268<br>7,663<br>::<br>:te:<br>:te:<br>:te:   | psi<br>8,767<br>7,363<br>80.6<br>79.9   | psi<br>psi<br>bpm<br>bpm  |   |
|          | 14,3<br>14,3<br>14,2<br>Date   | 90 14,<br>40 14,<br>90 14,<br>Perf. Status  | 392 4<br>342 4<br>292 Form   | 4 10<br>4 8<br>4 8<br>hation   | 60<br>60<br>60<br>Stage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Pressure<br>Avg. Pressure<br>Avg. Slurry Ra<br>Avg. Slurry Ra<br>Avg. Slurry Ra  | 4,268<br>7,663<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:   | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340   | psi<br>psi<br>bpm<br>lbm /  |   |
| C        | 14,3:<br>14,3:<br>14,2:<br>Date  | 90 14,<br>40 14,<br>90 14,<br><b>Perf. Status</b><br>Open   | 392 4<br>342 4<br>292 7<br>3rd Bone Sp   | 4 10<br>4 8<br>4 8<br>iation<br>ring   | 60<br>60<br>60<br>Stage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Pressure<br>Avg. Pressure<br>Avg. Slurry Ra<br>Avg. Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite:  | 4,268<br>7,663<br>::<br>::<br>::<br>::<br>::<br>::   | psi<br>8,767<br>7,363<br>80.6<br>79.9   | psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /  |   |
| 0        | 14,3:<br>14,3:<br>14,2:<br>Date  | 90 14,<br>40 14,<br>90 14,<br><b>Perf. Status</b><br>Open   | 392 4<br>342 4<br>292 Form   | 4 10<br>4 8<br>4 8<br>hation   | 60<br>60<br>60<br>Stage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Pressure<br>Avg. Pressure<br>Avg. Slurry Ra<br>Avg. Slurry Ra<br>Avg. Slurry Ra  | 4,268<br>7,663<br>::<br>::<br>::<br>::<br>::<br>::   | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340   | psi<br>psi<br>bpm<br>lbm /  |   |
|          | 14,3<br>14,3<br>14,2<br>Date   | 90 14,<br>40 14,<br>90 14,<br>Perf. Status<br>Open<br>Bottom<br>(MD ft)   | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>SPF  | 4 10<br>4 8<br>4 8<br>ation<br>ring<br>Shots   | 60<br>60<br>60<br>5tage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Max Slurry Ra<br>Avg. Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite:<br>Phasing (deg)  | 4,268<br>7,663<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:  | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340   | psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /  |   |
| C        | 14,3:<br>14,3:<br>14,2:<br>Date  | 90 14,<br>40 14,<br>90 14,<br>Perf. Status<br>Open<br>Bottom<br>(MD ft)   | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>SPF  | 4 10<br>4 8<br>4 8<br>iation<br>ring   | 60<br>60<br>60<br>5tage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Max Slurry Ra<br>Avg. Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite:<br>Phasing (deg)  | 4,268<br>7,663<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:  | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340   | psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /  |   |
| C        | 14,3<br>14,3<br>14,2<br>Date   | 90 14,<br>40 14,<br>90 14,<br>90 14,<br>Perf. Status<br>Open<br>Bottom<br>(MD ft)<br>40 14,   | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>SPF  | 4 10<br>4 8<br>4 8<br>ation<br>ring<br>Shots   | 60<br>60<br>60<br>5tage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Max Slurry Ra<br>Avg. Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60  | 4,268<br>7,663<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:   | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340   | psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /  |   |
| C        | 14,3<br>14,3<br>14,2<br>Date<br>0<br>(MD ft)<br>14,2<br>14,2<br>14,2   | 90 14,<br>40 14,<br>90 14,<br><b>Perf. Status</b><br>Open<br>Bottom<br>(MD ft)<br>40 14,<br>90 14,  | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>3rd Bone Sp<br>242 4<br>192 4  | 10     10     8     8     ation     ring     Shots     4     10     4     10   | 60<br>60<br>60<br>5tage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Pressure<br>Avg. Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60  | 4,268<br>7,663<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:  | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340   | psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /  |   |
| C        | 14.3<br>14.3<br>14.2<br>Date<br>(<br>(MD ft)<br>14.2<br>14.1<br>14.1   | 90 14,<br>40 14,<br>90 14,<br><b>Perf. Status</b><br>Open<br>Bottom<br>(MD ft)<br>40 14,<br>90 14,  | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>3rd Bone Sp<br>242 4<br>192 4  | 4 10<br>4 8<br>4 8<br>4 8<br>4 8<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>8<br>8   | 60<br>60<br>60<br>5tage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Pressure<br>Avg. Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60<br>60<br>60  | 4,268<br>7,663<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:  | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340   | psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /  |   |
| C        | 14,3<br>14,3<br>14,2<br>Date<br>0<br>(MD ft)<br>14,2<br>14,2<br>14,2   | 90 14,<br>40 14,<br>90 14,<br><b>Perf. Status</b><br>Open<br>Bottom<br>(MD ft)<br>40 14,<br>90 14,  | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>3rd Bone Sp<br>242 4<br>192 4  | 10     10     8     8     ation     ring     Shots     4     10     4     10   | 60<br>60<br>60<br>5tage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Pressure<br>Max Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60<br>60   | 4,268<br>7,663<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:  | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340   | psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /  |   |
|          | 14,3<br>14,3<br>14,2<br>Date<br>7<br>0<br>(MD ft)<br>14,2<br>14,1<br>14,2<br>14,1<br>14,1<br>14,1  | 90 14,<br>40 14,<br>90 14,<br><b>Perf. Status</b><br>Open<br>40 14,<br>90 14,<br>40 14,<br>90 14,<br>90 14,   | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>3rd Bone Sp<br>242 4<br>192 4<br>142 4   | 4 10<br>4 8<br>4 8<br>aation<br>ring<br>5 hots<br>4 10<br>4 10<br>4 8<br>4 8   | 60<br>60<br>60<br>5tage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Pressure<br>Avg. Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60<br>60<br>60  | 4,268<br>7,663<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:  | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340   | psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /<br>Ibm /<br>Interval Comments  |   |
|          | 14.3<br>14.3<br>14.2<br>Date<br>(<br>(MD ft)<br>14.2<br>14.1<br>14.1<br>14.1<br>14.0<br>Date   | 90 14,<br>40 14,<br>90 14,<br><b>Perf. Status</b><br>Open<br>Bottom<br>(MD ft)<br>40 14,<br>90 14,<br>90 14,<br>90 14,  | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>3rd Bone Sp<br>242 4<br>192 4<br>142 4<br>092 7  | 4 10<br>4 8<br>4 8<br>4 8<br>4 8<br>4 8<br>4 10<br>4 10<br>4 8<br>4 8<br>4 8<br>4 8  | 60<br>60<br>60<br>Stage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Pressure<br>Avg. Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60<br>60<br>60<br>60  | 4,268<br>7,663<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:  | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340   | psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /  |   |
|          | 14.3<br>14.3<br>14.2<br>Date<br>(<br>(MD ft)<br>14.2<br>14.1<br>14.1<br>14.1<br>14.0<br>Date   | 90 14,<br>40 14,<br>90 14,<br><b>Perf. Status</b><br>Open<br>40 14,<br>90 14,<br>40 14,<br>90 14,<br>90 14,   | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>3rd Bone Sp<br>242 4<br>192 4<br>142 4   | 4 10<br>4 8<br>4 8<br>4 8<br>4 8<br>4 8<br>4 10<br>4 10<br>4 8<br>4 8<br>4 8<br>4 8  | 60<br>60<br>60<br>Stage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Pressure<br>Avg. Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60  | 4,268<br>7,663<br>::<br>::<br>::<br>::<br>::<br>::<br>::   | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340<br>239,320  | psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /<br>Ibm /<br>Interval Comments  |   |
|          | 14.3<br>14.3<br>14.2<br>Date<br>(<br>(MD ft)<br>14.2<br>14.1<br>14.1<br>14.1<br>14.0<br>Date   | 90 14,<br>40 14,<br>90 14,<br><b>Perf. Status</b><br>Open<br>Bottom<br>(MD ft)<br>40 14,<br>90 14,<br>90 14,<br>90 14,  | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>3rd Bone Sp<br>242 4<br>192 4<br>142 4<br>092 7  | 4 10<br>4 8<br>4 8<br>4 8<br>4 8<br>4 8<br>4 10<br>4 10<br>4 8<br>4 8<br>4 8<br>4 8  | 60<br>60<br>60<br>Stage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Max Slury Ra<br>Avg. Slury Ra<br>40/70 ProLite:<br>20/40 ProLite:<br>20/40 ProLite:<br>20/40 ProLite:<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60   | 4,268<br>7,663<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:     | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340<br>239,320  | psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /<br>Ibm /<br>Interval Comments  |   |
|          | 14.3<br>14.3<br>14.2<br>Date<br>(<br>(MD ft)<br>14.2<br>14.1<br>14.1<br>14.1<br>14.0<br>Date   | 90 14,<br>40 14,<br>90 14,<br><b>Perf. Status</b><br>Open<br>Bottom<br>(MD ft)<br>40 14,<br>90 14,<br>90 14,<br>90 14,  | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>3rd Bone Sp<br>242 4<br>192 4<br>142 4<br>092 7  | 4 10<br>4 8<br>4 8<br>4 8<br>4 8<br>4 8<br>4 10<br>4 10<br>4 8<br>4 8<br>4 8<br>4 8  | 60<br>60<br>60<br>5tage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Pressure<br>Avg. Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60  | 4,268<br>7,663<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:     | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340<br>239,320<br>psi<br>psi  | psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /<br>Interval Comments   |   |
|          | 14.3<br>14.3<br>14.2<br>Date<br>(<br>(MD ft)<br>14.2<br>14.1<br>14.1<br>14.1<br>14.0<br>Date   | 90 14,<br>40 14,<br>90 14,<br><b>Perf. Status</b><br>Open<br>Bottom<br>(MD ft)<br>40 14,<br>90 14,<br>90 14,<br>90 14,  | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>3rd Bone Sp<br>242 4<br>192 4<br>142 4<br>092 7  | 4 10<br>4 8<br>4 8<br>4 8<br>4 8<br>4 8<br>4 10<br>4 10<br>4 8<br>4 8<br>4 8<br>4 8  | 60<br>60<br>60<br>5tage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Pressure<br>Avg. Slury Ra<br>40/70 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60   | 4,268<br>7,663<br>::<br>tte:<br>ate:<br>4,392<br>8,252<br>:  | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340<br>239,320<br>239,320   | psi<br>psi<br>bpm<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments                                     |   |
|          | 14.3<br>14.3<br>14.2<br>Date<br>(<br>(MD ft)<br>14.2<br>14.1<br>14.1<br>14.1<br>14.0<br>Date   | 90 14,<br>40 14,<br>90 14,<br><b>Perf. Status</b><br>Open<br>Bottom<br>(MD ft)<br>40 14,<br>90 14,<br>90 14,<br>90 14,  | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>3rd Bone Sp<br>242 4<br>192 4<br>142 4<br>092 7  | 4 10<br>4 8<br>4 8<br>4 8<br>4 8<br>4 8<br>4 10<br>4 10<br>4 8<br>4 8<br>4 8<br>4 8  | 60<br>60<br>60<br>Stage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Max Slury Re<br>Avg. Slury Re<br>Avg. Slury Re<br>Avg. Slury Re<br>Avg. Slury Re<br>Avg. Slury Re<br>Max Slury Re<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60   | 4,268<br>7,663<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:   | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340<br>239,320<br>psi<br>8,777<br>7,703                                   | psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /<br>Interval Comments<br>Comments                                     |   |
|          | 14.3<br>14.3<br>14.2<br>Date<br>(<br>(MD ft)<br>14.2<br>14.1<br>14.1<br>14.1<br>14.0<br>Date   | 90 14,<br>40 14,<br>90 14,<br><b>Perf. Status</b><br>Open<br>Bottom<br>(MD ft)<br>40 14,<br>90 14,<br>90 14,<br>90 14,  | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>3rd Bone Sp<br>242 4<br>192 4<br>142 4<br>092 7  | 4 10<br>4 8<br>4 8<br>4 8<br>4 8<br>4 8<br>4 10<br>4 10<br>4 8<br>4 8<br>4 8<br>4 8  | 60<br>60<br>60<br>5tage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60   | 4,268<br>7,663<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:     | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340<br>239,320<br>239,320<br>psi<br>8,777<br>7,703<br>81.0                | psi<br>psi<br>bpm<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments                                     |   |
|          | 14.3<br>14.3<br>14.2<br>Date<br>(<br>(MD ft)<br>14.2<br>14.1<br>14.1<br>14.1<br>14.0<br>Date   | 90 14,<br>40 14,<br>90 14,<br><b>Perf. Status</b><br>Open<br>Bottom<br>(MD ft)<br>40 14,<br>90 14,<br>90 14,<br>90 14,  | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>3rd Bone Sp<br>242 4<br>192 4<br>142 4<br>092 7  | 4 10<br>4 8<br>4 8<br>4 8<br>4 8<br>4 8<br>4 10<br>4 10<br>4 8<br>4 8<br>4 8<br>4 8  | 60<br>60<br>60<br>5tage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Pressure<br>Avg. Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60  | 4,268<br>7,663<br>::<br>tte:<br>ate:<br>4,392<br>8,252<br>:<br>tte:<br>ate:<br>tte:<br>ate:                  | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340<br>239,320<br>239,320<br>psi<br>psi<br>8,777<br>7,703<br>81.0<br>79.0 | psi<br>psi<br>bpm<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments                                     |   |
|          | 14.3<br>14.3<br>14.2<br>Date<br>(<br>(MD ft)<br>14.2<br>14.1<br>14.1<br>14.1<br>14.0<br>Date   | 90 14,<br>40 14,<br>90 14,<br><b>Perf. Status</b><br>Open<br>Bottom<br>(MD ft)<br>40 14,<br>90 14,<br>90 14,<br>90 14,  | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>3rd Bone Sp<br>242 4<br>192 4<br>142 4<br>092 7  | 4 10<br>4 8<br>4 8<br>4 8<br>4 8<br>4 8<br>4 10<br>4 10<br>4 8<br>4 8<br>4 8<br>4 8  | 60<br>60<br>60<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80   | 4,268<br>7,663<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:     | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340<br>239,320<br>psi<br>8,777<br>7,703<br>81.0<br>79.0<br>65,660         | psi<br>pm<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>psi<br>bpm<br>bpm<br>lbm / |   |
|          | 14.3<br>14.3<br>14.2<br>Date<br>(<br>(MD ft)<br>14.2<br>14.1<br>14.1<br>14.1<br>14.0<br>Date   | 90 14,<br>40 14,<br>90 14,<br><b>Perf. Status</b><br>Open<br>Bottom<br>(MD ft)<br>40 14,<br>90 14,<br>90 14,<br>90 14,  | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>3rd Bone Sp<br>242 4<br>192 4<br>142 7<br>142 7<br>142 7<br>142 7<br>142 7<br>142 7<br>142 7<br>142 7<br>142 7<br>142 7<br>144    | 4 10<br>4 8<br>4 8<br>4 8<br>4 8<br>4 8<br>4 10<br>4 10<br>4 8<br>4 8<br>4 8<br>4 8  | 60<br>60<br>60<br>5tage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Pressure<br>Avg. Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60  | 4,268<br>7,663<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:     | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340<br>239,320<br>239,320<br>psi<br>psi<br>8,777<br>7,703<br>81.0<br>79.0 | psi<br>psi<br>bpm<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments                                     |   |
|          | 14,3<br>14,3<br>14,2<br>Date<br>(MD ft)<br>14,2<br>14,1<br>14,1<br>14,1<br>14,0<br>Date  | 90 14,<br>40 14,<br>90 14,<br><b>Perf. Status</b><br>Open<br>40 14,<br>90 14,<br>40 14,<br>90 14,<br>90 14,<br>90 14,<br>90 14,<br>90 14,<br>90 14,   | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>3rd Bone Sp<br>242 4<br>192 4<br>142 7<br>142 7<br>142 7<br>142 7<br>142 7<br>142 7<br>142 7<br>142 7<br>142 7<br>142 7<br>144    | 4 10<br>4 8<br>ation<br>ring<br>Shots<br>4 10<br>4 10<br>4 8<br>4 8<br>ation<br>ring   | 60<br>60<br>60<br>60<br>5tage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite:<br>20/40 ProLite:<br>20/40 ProLite:<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60  | 4,268<br>7,663<br>:<br>:<br>:<br>:<br>:<br>tte:<br>ate:<br>4,392<br>8,252<br>:<br>:<br>:<br>:<br>:<br>:<br>: | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340<br>239,320<br>psi<br>8,777<br>7,703<br>81.0<br>79.0<br>65,660         | psi<br>pm<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>psi<br>bpm<br>bpm<br>lbm / |   |
|          | 14.3<br>14.3<br>14.2<br>Date<br>7<br>0<br>(MD ft)<br>14.2<br>14.1<br>14.1<br>14.0<br>Date<br>7<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 90 14,<br>40 14,<br>90 14,<br><b>Perf. Status</b><br>Open<br>Bottom<br>(MD ft)<br>40 14,<br>90 14,<br>90 14,<br>90 14,<br>90 14,<br>90 14,  | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>242 7<br>192 7<br>142 7<br>092 7<br>3rd Bone Sp<br>3rd Bone Sp   | 4 10<br>4 8<br>4 8<br>4 8<br>4 8<br>4 8<br>4 10<br>4 10<br>4 8<br>4 8<br>4 8<br>4 8  | 60<br>60<br>60<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80   | 4,268<br>7,663<br>:<br>:<br>:<br>:<br>:<br>tte:<br>ate:<br>4,392<br>8,252<br>:<br>:<br>:<br>:<br>:<br>:<br>: | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340<br>239,320<br>psi<br>8,777<br>7,703<br>81.0<br>79.0<br>65,660         | psi<br>ppi<br>bpm<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments                                     |   |
|          | 14.3<br>14.3<br>14.2<br>Date<br>(MD ft)<br>14.2<br>14.1<br>14.1<br>14.0<br>Date<br>(MD ft)   | 90 14,<br>40 14,<br>90 14,<br>90 14,<br>Perf. Status<br>Open<br>Bottom<br>(MD ft)<br>40 14,<br>90 1 | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>3rd Bone Sp<br>242 7<br>192 7<br>142 7<br>192 7<br>142 7<br>192 7<br>142 7<br>192 7<br>142 7<br>142 7<br>192 7<br>142 7<br>142 7<br>142 7<br>142 7<br>142 7<br>144    | A 10     A 8     A 8     A 8     A 8     A 8     A 8     A 8     A 10     A 10     A 10     A 10     A 8 | 60<br>60<br>60<br>60<br>5tage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60   | 4,268<br>7,663<br>:<br>: tte:<br>ate:<br>4,392<br>8,252<br>:<br>:<br>:<br>tte:<br>ate:                       | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340<br>239,320<br>psi<br>8,777<br>7,703<br>81.0<br>79.0<br>65,660         | psi<br>ppi<br>bpm<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments                                     |   |
|          | 14.3<br>14.3<br>14.2<br>Date<br>(MD ft)<br>14.2<br>14.1<br>14.1<br>14.0<br>Date<br>(MD ft)<br>14.0<br>Date<br>(MD ft)<br>14.0<br>14.0<br>Date  | 90 14,<br>40 14,<br>90 14,<br>Perf. Status<br>Open<br>Bottom<br>(MD ft)<br>40 14,<br>90 14,<br>9  | 392 4<br>342 4<br>292 4<br>3rd Bone Sp<br>3rd Bone Sp<br>242 4<br>192 4<br>192 4<br>142 4<br>092 4<br>142 4<br>092 4<br>SPF<br>093 5<br>094 5<br>SPF<br>043 4<br>043 4<br>043 4<br>043 4<br>043 4<br>044 4<br>0 |  | 60<br>60<br>60<br>60<br>5tage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite:<br>20/40 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60   | 4,268<br>7,663<br>:<br>:te:<br>ate:<br>4,392<br>8,252<br>:<br>:<br>te:<br>ate:                               | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340<br>239,320<br>psi<br>8,777<br>7,703<br>81.0<br>79.0<br>65,660         | psi<br>ppi<br>bpm<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments                                     |   |
|          | 14.3<br>14.3<br>14.2<br>Date<br>(MD ft)<br>14.2<br>14.1<br>14.1<br>14.0<br>Date<br>(MD ft)   | 90 14,<br>40 14,<br>90 14,<br>Perf. Status<br>Open<br>Bottom<br>(MD ft)<br>40 14,<br>90 14,<br>9  | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>3rd Bone Sp<br>242 7<br>192 7<br>142 7<br>192 7<br>142 7<br>192 7<br>142 7<br>192 7<br>142 7<br>142 7<br>192 7<br>142 7<br>142 7<br>142 7<br>142 7<br>142 7<br>144    | A 10     A 8     A 8     A 8     A 8     A 8     A 8     A 7     | 60<br>60<br>60<br>60<br>5tage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite:<br>20/40 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60   | 4,268<br>7,663<br>:<br>:te:<br>ate:<br>4,392<br>8,252<br>:<br>:<br>te:<br>ate:                               | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340<br>239,320<br>psi<br>8,777<br>7,703<br>81.0<br>79.0<br>65,660         | psi<br>ppi<br>bpm<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments                                     |   |
|          | 14,3<br>14,3<br>14,2<br>Date<br>(MD ft)<br>14,2<br>14,1<br>14,1<br>14,1<br>14,0<br>Date<br>(MD ft)<br>14,0<br>Date<br>(MD ft)<br>14,0<br>13,9  | 90 14,<br>40 14,<br>90 14,<br>90 14,<br>Perf. Status<br>Open<br>40 14,<br>90 13,  | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>3rd Bone Sp<br>242 4<br>192 4<br>192 4<br>142 4<br>092 7<br>3rd Bone Sp<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5   |  | 60<br>60<br>60<br>60<br>5tage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Pressure<br>Avg. Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60  | 4,268<br>7,663<br>:<br>:tte:<br>ate:<br>4,392<br>8,252<br>:<br>:<br>:<br>:<br>tte:<br>ate:                   | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340<br>239,320<br>psi<br>8,777<br>7,703<br>81.0<br>79.0<br>65,660         | psi<br>ppi<br>bpm<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments                                     |   |
| c        | 14,3<br>14,3<br>14,2<br>Date<br>(MD ft)<br>14,2<br>14,1<br>14,0<br>Date<br>(MD ft)<br>14,0<br>Date<br>(MD ft)<br>14,0<br>13,9<br>13,9  | 90 14,<br>40 14,<br>90 14,<br>Perf. Status<br>Open<br>Bottom<br>(MD ft)<br>40 14,<br>90 14,<br>14,<br>90 14,<br>90 13,<br>90 14,<br>90 13,<br>90 14,<br>90 13,<br>90 13,<br>90 14,<br>90 13,<br>90 14,<br>90 13,<br>90 14,<br>90 13,<br>90 14,<br>90 14,<br>90 13,<br>90 14,<br>90 1  | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>3rd Bone Sp<br>242 4<br>192 4<br>192 4<br>142 4<br>192 4<br>142 4<br>192 4<br>142 4<br>192 4<br>142 4<br>142 4<br>192 4<br>142 4<br>144    |  | 60<br>60<br>60<br>60<br>5tage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Pressure<br>Avg. Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite:<br>20/40 ProLite:<br>Breakdown:<br>Stage 7<br>Initial WHP:<br>Breakdown:<br>Stage 7<br>Initial WHP:<br>Breakdown:<br>20/40 ProLite:<br>20/40 ProL | 4,268<br>7,663<br>:<br>:tte:<br>ate:<br>4,392<br>8,252<br>:<br>:<br>:<br>tte:<br>ate:                        | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340<br>239,320<br>psi<br>8,777<br>7,703<br>81.0<br>79.0<br>65,660         | psi<br>ppi<br>bpm<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments                                     |   |
| C        | 14,3<br>14,3<br>14,2<br>Date<br>(MD ft)<br>14,2<br>14,1<br>14,1<br>14,1<br>14,0<br>Date<br>(MD ft)<br>14,0<br>Date<br>(MD ft)<br>14,0<br>13,9  | 90 14,<br>40 14,<br>90 14,<br>Perf. Status<br>Open<br>Bottom<br>(MD ft)<br>40 14,<br>90 14,<br>14,<br>90 14,<br>90 13,<br>90 14,<br>90 13,<br>90 14,<br>90 13,<br>90 13,<br>90 14,<br>90 13,<br>90 14,<br>90 13,<br>90 14,<br>90 13,<br>90 14,<br>90 14,<br>90 13,<br>90 14,<br>90 1  | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>3rd Bone Sp<br>242 4<br>192 4<br>192 4<br>142 4<br>092 7<br>3rd Bone Sp<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5   |  | 60<br>60<br>60<br>60<br>5tage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Pressure<br>Avg. Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite:<br>20/40 ProLite:<br>Breakdown:<br>Stage 7<br>Initial WHP:<br>Breakdown:<br>Stage 7<br>Initial WHP:<br>Breakdown:<br>20/40 ProLite:<br>20/40 ProL | 4,268<br>7,663<br>:<br>:tte:<br>ate:<br>4,392<br>8,252<br>:<br>:<br>:<br>tte:<br>ate:                        | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340<br>239,320<br>psi<br>8,777<br>7,703<br>81.0<br>79.0<br>65,660         | psi<br>ppi<br>bpm<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments                                     |   |
|          | 14,3<br>14,3<br>14,2<br>Date<br>(MD ft)<br>14,2<br>14,1<br>14,0<br>Date<br>(MD ft)<br>14,0<br>Date<br>(MD ft)<br>14,0<br>13,9<br>13,9  | 90 14,<br>40 14,<br>90 14,<br>Perf. Status<br>Open<br>Bottom<br>(MD ft)<br>40 14,<br>90 14,<br>14,<br>90 14,<br>90 13,<br>90 14,<br>90 13,<br>90 14,<br>90 13,<br>90 13,<br>90 14,<br>90 13,<br>90 14,<br>90 13,<br>90 14,<br>90 13,<br>90 14,<br>90 14,<br>90 13,<br>90 14,<br>90 1  | 392 4<br>342 4<br>292 7<br>3rd Bone Sp<br>3rd Bone Sp<br>242 4<br>192 4<br>142 4<br>092 7<br>3rd Bone Sp<br>6<br>5<br>5<br>6<br>6<br>7<br>7<br>7<br>7<br>7<br>8<br>7<br>7<br>8<br>7<br>7<br>8<br>7<br>7<br>8<br>7<br>7<br>8<br>7<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>9<br>8<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9  |  | 60<br>60<br>60<br>60<br>5tage 6<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Pressure<br>Avg. Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite:<br>20/40 ProLite:<br>Breakdown:<br>Stage 7<br>Initial WHP:<br>Breakdown:<br>Stage 7<br>Initial WHP:<br>Breakdown:<br>20/40 ProLite:<br>20/40 ProL | 4,268<br>7,663<br>:<br>:tte:<br>ate:<br>4,392<br>8,252<br>:<br>:<br>:<br>tte:<br>ate:                        | psi<br>8,767<br>7,363<br>80.6<br>79.9<br>66,340<br>239,320<br>psi<br>8,777<br>7,703<br>81.0<br>79.0<br>65,660         | psi<br>ppi<br>bpm<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments                                     |   |

| C        | -  |   |  |   |  |   |  |   |  |   |
|----------|--|---|--|---|--|---|--|---|--|---|
| _        | Date   | Perf. S   |  | Forma   |  |   |  |   | Comments   |   |
|          |  | Open  | 31   | rd Bone Spr   | ing  | Stage 8<br>Initial WHP:   | 4 200  | nei   |  |   |
|          |  |   |  |   |  | Breakdown:  |  | psi   |  |   |
|          |  |   |  |   |  | Max Pressure  |  | 8,666   | psi  |   |
|          |  |   |  |   |  | Avg. Pressure   |  | 7,902   | psi  |   |
|          |  |   |  |   |  | Max Slurry Ra   |  | 80.7  | bpm  |   |
|          |  |   |  |   |  | Avg. Slurry Ra  |  | 71.6  | bpm  |   |
|          |  |   |  |   |  | 40/70 ProLite:  |  | 65,400  | lbm /  |   |
|          |  |   |  |   |  | 20/40 ProLite:  |  | 234,100   | lbm /  |   |
|          | Тор  |   | lottom   | SPF   | Shots  | Phasing (deg)   |  |   | Interval Comments  |   |
|          | (MD ft)  |   | MD ft)   |   | 10   |   |  |   |  | _ |
|          | 13,8   |   | 13,843   |   | 12   | 60  |  |   |  |   |
|          | 13,7   | '90   | 13,973   | 4   | 12   | 60  |  |   |  |   |
|          | 13,7   | 40  | 13,742   | . 4   | 10   | 60  |  |   |  |   |
|          | 13,6   | 690   | 13,692   | 4   | 10   | 60  |  |   |  |   |
| C        | Date   | Perf. S   |  | Forma   | ation  |   |  |   | Comments   |   |
| <u> </u> | Date   |   |  |   |  | 01  |  |   | Comments   | _ |
|          |  | Open  | 3  | rd Bone Spr   | ing  | Stage 9<br>Initial WHP:   | 4 240  | psi   |  |   |
|          |  |   |  |   |  | Breakdown:  |  | psi   |  |   |
|          |  |   |  |   |  | Max Pressure  |  | 8,807   | psi  |   |
|          |  |   |  |   |  | Avg. Pressure   | 0  | 7,503   | psi  |   |
|          |  |   |  |   |  | Max Slurry Ra   |  | 80.9  | bpm  |   |
|          |  |   |  |   |  | Avg. Slurry Ra  |  | 73.9  | bpm  |   |
|          |  |   |  |   |  | 40/70 ProLite:<br>20/40 ProLite:  |  | 62,000  | Ibm /<br>Ibm /   |   |
|          | 7  |   | 1000   | 005   | Chata  |   |  | 241,220   |  |   |
|          | Top<br>(MD ft)   |   | Bottom<br>MD ft)   | SPF   | Shots  | Phasing (deg)   |  |   | Interval Comments  |   |
|          |  |   |  | 4   | 12   | 60  |  |   |  | _ |
|          | 13,6   |   | 13,643   |   |  |   |  |   |  |   |
|          | 13,5   |   | 13,593   |   | 12   | 60  |  |   |  |   |
|          | 13,5   | 540   | 13,542   | 4   | 10   | 60  |  |   |  |   |
|          | 13,4   | 190   | 13,492   | 4   | 10   | 60  |  |   |  |   |
| С        | Date   | Perf. S   |  | Forma   | ation  |   |  |   | Comments   |   |
| -        | Date   |   |  |   |  | Stage 10  |  |   | ooninion a   |   |
|          |  | Open  | 3  | rd Bone Spr   | ing  | Stage 10<br>Initial WHP:  | 4 203  | psi   |  |   |
|          |  |   |  |   |  | Breakdown:  |  | psi   |  |   |
|          |  |   |  |   |  | Max Pressure  |  | 9,025   | psi  |   |
|          |  |   |  |   |  | Avg. Pressure   |  | 7,675   | psi  |   |
|          |  |   |  |   |  | Max Slurry Ra   | ite:   | 80.6  | bpm  |   |
|          |  |   |  |   |  | Avg. Slurry Ra  |  | 72.3  | bpm  |   |
|          |  |   |  |   |  | 40/70 ProLite:  |  | 67,060  | lbm /  |   |
|          |  |   |  |   |  | 20/40 Drol Hay  |  |   |  |   |
| -        | -  | L   |  | 0.05  | 01   | 20/40 ProLite:  |  | 239,800   | lbm /  |   |
|          | Top  |   | Bottom   | SPF   | Shots  | 20/40 ProLite:<br>Phasing (deg)   |  |   |  |   |
|          | (MD ft)  | (   | MD ft)   |   |  | Phasing (deg)   |  |   | lbm /  |   |
|          | (MD ft)<br>13,4  | (   | MD ft)<br>13,443   | 3 4   | 12   | Phasing (deg)<br>60   |  |   | lbm /  |   |
|          | (MD ft)<br>13,4<br>13,3  | (<br>140<br>390   | MD ft)<br>13,443<br>13,393   | s 4<br>s 4  | 12   | Phasing (deg)<br>60<br>60   |  |   | lbm /  |   |
|          | (MD ft)<br>13,4  | (<br>140<br>390   | MD ft)<br>13,443   | s 4<br>s 4  | 12   | Phasing (deg)<br>60   |  |   | lbm /  |   |
|          | (MD ft)<br>13,4<br>13,3  | (<br>140<br>390<br>340  | MD ft)<br>13,443<br>13,393   | 8 4<br>8 4<br>2 4   | 12   | Phasing (deg)<br>60<br>60   |  |   | lbm /  |   |
|          | (MD ft)<br>13,4<br>13,3<br>13,3<br>13,2  | (<br>140<br>390<br>340<br>290   | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292   | 8 4<br>8 4<br>2 4<br>2 4  | 12<br>12<br>10<br>10   | Phasing (deg)<br>60<br>60<br>60   |  |   | Ibm /<br>Interval Comments   |   |
| С        | (MD ft)<br>13,4<br>13,3<br>13,3  | (<br>440<br>390<br>340<br>290<br>Perf. S  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status   | 8 4<br>8 4<br>2 4<br>2 4<br>Forma   | 12<br>12<br>10<br>10<br>ation  | Phasing (deg)<br>60<br>60<br>60<br>60   |  |   | lbm /  |   |
|          | (MD ft)<br>13,4<br>13,3<br>13,3<br>13,2  | (<br>140<br>390<br>340<br>290   | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status   | 8 4<br>8 4<br>2 4<br>2 4  | 12<br>12<br>10<br>10<br>ation  | Phasing (deg)<br>60<br>60<br>60<br>60<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80   |  | 239,800   | Ibm /<br>Interval Comments   |   |
|          | (MD ft)<br>13,4<br>13,3<br>13,3<br>13,2  | (<br>440<br>390<br>340<br>290<br>Perf. S  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status   | 8 4<br>8 4<br>2 4<br>2 4<br>Forma   | 12<br>12<br>10<br>10<br>ation  | Phasing (deg)<br>60<br>60<br>60<br>60   | 4,382  |   | Ibm /<br>Interval Comments   |   |
|          | (MD ft)<br>13,4<br>13,3<br>13,3<br>13,2  | (<br>440<br>390<br>340<br>290<br>Perf. S  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status   | 8 4<br>8 4<br>2 4<br>2 4<br>Forma   | 12<br>12<br>10<br>10<br>ation  | Phasing (deg)<br>60<br>60<br>60<br>60<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80   | 4,382  | 239,800   | Ibm /<br>Interval Comments   |   |
|          | (MD ft)<br>13,4<br>13,3<br>13,3<br>13,2  | (<br>440<br>390<br>340<br>290<br>Perf. S  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status   | 8 4<br>8 4<br>2 4<br>2 4<br>Forma   | 12<br>12<br>10<br>10<br>ation  | Phasing (deg)<br>60<br>60<br>60<br>60<br>8tage 11<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Pressure  | 4,382<br>8,882<br>5  | 239,800<br>psi<br>psi<br>8,900<br>8,078   | Ibm /<br>Interval Comments<br>Comments   |   |
|          | (MD ft)<br>13,4<br>13,3<br>13,3<br>13,2  | (<br>440<br>390<br>340<br>290<br>Perf. S  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status   | 8 4<br>8 4<br>2 4<br>2 4<br>Forma   | 12<br>12<br>10<br>10<br>ation  | Phasing (deg)<br>60<br>60<br>60<br>60<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80   | 4,382<br>8,882<br>::<br>::   | 239,800<br>psi<br>8,900<br>8,078<br>80,9  | Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>bpm  |   |
|          | (MD ft)<br>13,4<br>13,3<br>13,3<br>13,2  | (<br>440<br>390<br>340<br>290<br>Perf. S  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status   | 8 4<br>8 4<br>2 4<br>2 4<br>Forma   | 12<br>12<br>10<br>10<br>ation  | Phasing (deg)<br>60<br>60<br>60<br>60<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80   | 4,382<br>8,882<br>:<br>:<br>:<br>:<br>:<br>:<br>:  | 239,800<br>psi<br>psi<br>8,900<br>8,078<br>80.9<br>72.1   | Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>bpm<br>bpm   |   |
|          | (MD ft)<br>13,4<br>13,3<br>13,3<br>13,2  | (<br>440<br>390<br>340<br>290<br>Perf. S  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status   | 8 4<br>8 4<br>2 4<br>2 4<br>Forma   | 12<br>12<br>10<br>10<br>ation  | Phasing (deg)<br>60<br>60<br>60<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80   | 4,382<br>8,882<br>::<br>::<br>::<br>::<br>::   | 239,800<br>psi<br>si<br>8,900<br>8,078<br>80.9<br>72.1<br>65,740  | Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>bpm<br>bpm<br>bpm<br>bpm<br>bbm /  |   |
|          | (MD ft)<br>13,4<br>13,5<br>13,5<br>13,2<br>13,2<br>Date  | (1440<br>3990<br>3440<br>2990<br>Perf. \$<br>Open   | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status<br>3  | 4<br>4<br>2<br>4<br>2<br>4<br>Forma<br>rd Bone Spr  | 12<br>12<br>10<br>10<br>ation<br>ing   | Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60   | 4,382<br>8,882<br>:<br>:<br>:<br>:<br>tte:<br>ate:   | 239,800<br>psi<br>psi<br>8,900<br>8,078<br>80.9<br>72.1   | Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /   |   |
| С        | (MD ft)<br>13,4<br>13,5<br>13,5<br>13,5<br>13,5<br>Date<br>Top   | (1440<br>3990<br>3440<br>2990<br>Perf. 5<br>Open  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status<br>3<br>Status<br>3<br>Sottom   | 8 4<br>8 4<br>2 4<br>2 4<br>Forma   | 12<br>12<br>10<br>10<br>ation<br>ing   | Phasing (deg)<br>60<br>60<br>60<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80   | 4,382<br>8,882<br>:<br>:<br>:<br>:<br>tte:<br>ate:   | 239,800<br>psi<br>si<br>8,900<br>8,078<br>80.9<br>72.1<br>65,740  | Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>bpm<br>bpm<br>bpm<br>bpm<br>bbm /  |   |
| С        | (MD ft)<br>13,4<br>13,5<br>13,5<br>13,2<br>Date<br>Top<br>(MD ft)  | (140<br>390<br>290<br>Perf. 5<br>Open   | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status<br>30<br>Sottom<br>MD ft)   | s 4<br>4<br>4<br>2<br>4<br>Forma<br>rd Bone Spr   | 12<br>12<br>10<br>10<br>ation<br>ing<br>Shots  | Phasing (deg)<br>60<br>60<br>60<br>60<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80   | 4,382<br>4,382<br>8,882<br>::<br>::<br>::<br>::<br>::<br>::  | 239,800<br>psi<br>si<br>8,900<br>8,078<br>80.9<br>72.1<br>65,740  | Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /   |   |
| С        | (MD ft)<br>13,4<br>13,5<br>13,5<br>13,2<br>Date<br>Top<br>(MD ft)<br>13,2<br>13,2<br>13,2<br>13,2<br>13,2<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>13,5<br>1 | (1440<br>3900<br>3400<br>2900<br>Perf. S<br>Open  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status<br>30<br>Sottom<br>MD ft)<br>13,243   | SPF   | 12<br>12<br>10<br>10<br>ation<br>ing<br>Shots<br>12  | Phasing (deg)<br>60<br>60<br>60<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80   | 4,382<br>8,882<br>5:<br>tte:<br>ate:   | 239,800<br>psi<br>si<br>8,900<br>8,078<br>80.9<br>72.1<br>65,740  | Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /   |   |
| С        | (MD ft)<br>13,4<br>13,5<br>13,5<br>13,2<br>Date<br>Top<br>(MD ft)<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>1 | (140<br>390<br>340<br>290<br>Perf. S<br>Open<br>E<br>(240   | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status<br>30<br>Sottom<br>MD ft)<br>13,243<br>13,193<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>3  | SPF   | 12<br>12<br>10<br>10<br>ation<br>ing<br>Shots<br>12<br>12  | Phasing (deg)<br>60<br>60<br>60<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80   | 4,382<br>8,882<br>5:<br>tte:<br>ate:   | 239,800<br>psi<br>si<br>8,900<br>8,078<br>80.9<br>72.1<br>65,740  | Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /   |   |
| С        | (MD ft)<br>13,4<br>13,5<br>13,5<br>13,2<br>Date<br>Top<br>(MD ft)<br>13,4<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>1 | (<br>440<br>390<br>290<br>Perf. 5<br>Open<br>E<br>(<br>240<br>190<br>140  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status<br>30<br>Sottom<br>MD ft)<br>13,243<br>13,193<br>13,142   | SPF   | 12<br>12<br>10<br>10<br>ation<br>ing<br>Shots<br>12<br>12<br>12<br>12  | Phasing (deg)<br>60<br>60<br>60<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80   | 4,382<br>4,382<br>8,882<br>::<br>::<br>::<br>::<br>::<br>::  | 239,800<br>psi<br>si<br>8,900<br>8,078<br>80.9<br>72.1<br>65,740  | Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /   |   |
| С        | (MD ft)<br>13,4<br>13,5<br>13,5<br>13,2<br>Date<br>Top<br>(MD ft)<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>1 | (<br>440<br>390<br>290<br>Perf. 5<br>Open<br>E<br>(<br>240<br>190<br>140  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status<br>30<br>Sottom<br>MD ft)<br>13,243<br>13,193<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>3  | SPF   | 12<br>12<br>10<br>10<br>ation<br>ing<br>Shots<br>12<br>12  | Phasing (deg)<br>60<br>60<br>60<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80   | 4,382<br>4,382<br>8,882<br>::<br>::<br>::<br>::<br>::<br>::  | 239,800<br>psi<br>si<br>8,900<br>8,078<br>80.9<br>72.1<br>65,740  | Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /   |   |
| С        | (MD ft)<br>13,4<br>13,5<br>13,5<br>13,2<br>Date<br>Top<br>(MD ft)<br>13,4<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>1 | (<br>440<br>390<br>290<br>Perf. 5<br>Open<br>E<br>(<br>240<br>190<br>140  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status<br>30<br>Sottom<br>MD ft)<br>13,243<br>13,193<br>13,142<br>13,092   | SPF   | 12<br>12<br>10<br>10<br>ation<br>ing<br>Shots<br>12<br>12<br>12<br>10<br>10  | Phasing (deg)<br>60<br>60<br>60<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80   | 4,382<br>4,382<br>8,882<br>::<br>::<br>::<br>::<br>::<br>::  | 239,800<br>psi<br>si<br>8,900<br>8,078<br>80.9<br>72.1<br>65,740  | Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /   |   |
| C        | (MD ft)<br>13,4<br>13,5<br>13,5<br>13,2<br>Date<br>Date<br>(MD ft)<br>13,4<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7     | (<br>440<br>390<br>290<br>Perf. 5<br>Open<br>E<br>(<br>240<br>190<br>140<br>990<br>Perf. 5  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>4<br>3<br>13,243<br>13,243<br>13,193<br>13,142<br>13,092<br>Status<br>13,142<br>13,243<br>13,243<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3 | SPF<br>SPF<br>3 4<br>3 4<br>4<br>5 4<br>3 4<br>4<br>4<br>5 4<br>5 4<br>5 4<br>5 4<br>5 4<br>5 4 | 12<br>12<br>10<br>10<br>ation<br>shots<br>12<br>12<br>12<br>10<br>10<br>10<br>10   | Phasing (deg)<br>60<br>60<br>60<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80   | 4,382<br>4,382<br>8,882<br>::<br>::<br>::<br>::<br>::<br>::  | 239,800<br>psi<br>si<br>8,900<br>8,078<br>80.9<br>72.1<br>65,740  | Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /<br>Ibm /<br>Interval Comments   |   |
| C        | (MD ft)<br>13,4<br>13,5<br>13,5<br>13,2<br>Date<br>Date<br>(MD ft)<br>13,4<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7     | (1440<br>3900<br>2900<br>2900<br>2900<br>2900<br>2900<br>2900<br>290  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>4<br>3<br>13,243<br>13,243<br>13,193<br>13,142<br>13,092<br>Status<br>13,142<br>13,243<br>13,243<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3 | SPF<br>SPF<br>3 4<br>2 4<br>Forma<br>rd Bone Spr<br>3 4<br>3 4<br>2 4                           | 12<br>12<br>10<br>10<br>ation<br>shots<br>12<br>12<br>12<br>10<br>10<br>10<br>10   | Phasing (deg)         60           600         600           600         600           600         600           800         600           800         800           Stage 11         Initial WHP:           Breakdown:         Max Pressure           Max Slurry Ra         Avg. Pressure           Avg. Slurry Ra         40/70 ProLite:           Phasing (deg)         600           600         600           600         600           Stage 12         Stage 12  | 4,382<br>8,882<br>:<br>::<br>ite:<br>ate:  | 239,800<br>psi<br>psi<br>8,900<br>8,078<br>80.9<br>72.1<br>65,740<br>240,160  | Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /<br>Ibm /<br>Interval Comments   |   |
| C        | (MD ft)<br>13,4<br>13,5<br>13,5<br>13,2<br>Date<br>Date<br>(MD ft)<br>13,4<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7     | (<br>440<br>390<br>290<br>Perf. 5<br>Open<br>E<br>(<br>240<br>190<br>140<br>990<br>Perf. 5  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>4<br>3<br>13,243<br>13,243<br>13,193<br>13,142<br>13,092<br>Status<br>13,142<br>13,243<br>13,243<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3 | SPF<br>SPF<br>3 4<br>3 4<br>4<br>5 4<br>3 4<br>4<br>2 4<br>5 6 mm                               | 12<br>12<br>10<br>10<br>ation<br>shots<br>12<br>12<br>12<br>10<br>10<br>10<br>10   | Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81   | 4,382<br>8,882<br>::<br>tte:<br>ate:<br>4,321<br>5,413   | 239,800<br>psi<br>psi<br>8,900<br>8,078<br>80.9<br>72.1<br>65,740<br>240,160<br>psi<br>psi<br>psi<br>psi<br>psi<br>240,160          | Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>ppm<br>bpm<br>Ibm /<br>Ibm /<br>Ibm /<br>Interval Comments<br>Comments   |   |
| C        | (MD ft)<br>13,4<br>13,5<br>13,5<br>13,2<br>Date<br>Date<br>(MD ft)<br>13,4<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7     | (<br>440<br>390<br>290<br>Perf. 5<br>Open<br>E<br>(<br>240<br>190<br>140<br>990<br>Perf. 5  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>4<br>3<br>13,243<br>13,243<br>13,193<br>13,142<br>13,092<br>Status<br>13,142<br>13,243<br>13,243<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3 | SPF<br>SPF<br>3 4<br>3 4<br>4<br>5 4<br>3 4<br>4<br>2 4<br>5 6 mm                               | 12<br>12<br>10<br>10<br>ation<br>shots<br>12<br>12<br>12<br>10<br>10<br>10<br>ation  | Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81   | 4,382<br>8,882<br>:<br>:<br>:<br>tte:<br>ate:<br>4,321<br>5,413<br>:   | 239,800<br>psi<br>psi<br>8,900<br>8,900<br>8,078<br>80.9<br>72.1<br>65,740<br>240,160<br>psi<br>psi<br>8,891                        | Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /<br>Ibm /<br>Interval Comments<br>Comments<br>Comments   |   |
| C        | (MD ft)<br>13,4<br>13,5<br>13,5<br>13,2<br>Date<br>Date<br>(MD ft)<br>13,4<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7     | (<br>440<br>390<br>290<br>Perf. 5<br>Open<br>E<br>(<br>240<br>190<br>140<br>990<br>Perf. 5  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>4<br>3<br>13,243<br>13,243<br>13,193<br>13,142<br>13,092<br>Status<br>13,142<br>13,243<br>13,243<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3 | SPF<br>SPF<br>3 4<br>3 4<br>4<br>5 4<br>3 4<br>4<br>2 4<br>5 6 mm                               | 12<br>12<br>10<br>10<br>ation<br>shots<br>12<br>12<br>12<br>10<br>10<br>10<br>ation  | Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>8<br>8<br>8<br>9<br>8<br>9<br>8<br>9<br>9<br>8<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9  | 4,382<br>8,882<br>:<br>:<br>:<br>tte:<br>ate:<br>4,321<br>5,413<br>:<br>:  | 239,800<br>psi<br>psi<br>8,900<br>8,078<br>80.9<br>72.1<br>65,740<br>240,160<br>psi<br>psi<br>8,891<br>7,742                        | Ibm /<br>Interval Comments<br>Comments<br>psi<br>ppi<br>bpm<br>bpm<br>bpm<br>bpm<br>bpm<br>bpm<br>bpm<br>bpm<br>bpm<br>bpm   |   |
| C        | (MD ft)<br>13,4<br>13,5<br>13,5<br>13,2<br>Date<br>Date<br>(MD ft)<br>13,4<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7     | (<br>440<br>390<br>290<br>Perf. 5<br>Open<br>E<br>(<br>240<br>190<br>140<br>990<br>Perf. 5  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>4<br>3<br>13,243<br>13,243<br>13,193<br>13,142<br>13,092<br>Status<br>13,142<br>13,243<br>13,243<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3 | SPF<br>SPF<br>3 4<br>3 4<br>4<br>5 4<br>3 4<br>4<br>2 4<br>5 6 mm                               | 12<br>12<br>10<br>10<br>ation<br>shots<br>12<br>12<br>12<br>10<br>10<br>10<br>ation  | Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81   | 4,382<br>8,882<br>::<br>tte:<br>ate:<br>4,321<br>5,413<br>::   | 239,800<br>psi<br>psi<br>8,900<br>8,078<br>80.9<br>72.1<br>65,740<br>240,160<br>psi<br>psi<br>8,891<br>7,742<br>80.9                | Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>ppm<br>bpm<br>bpm<br>Ibm /<br>Ibm /<br>Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>psi<br>psi<br>bpm   |   |
| C        | (MD ft)<br>13,4<br>13,5<br>13,5<br>13,2<br>Date<br>Date<br>(MD ft)<br>13,4<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7     | (<br>440<br>390<br>290<br>Perf. 5<br>Open<br>E<br>(<br>240<br>190<br>140<br>990<br>Perf. 5  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>4<br>3<br>13,243<br>13,243<br>13,193<br>13,142<br>13,092<br>Status<br>13,142<br>13,243<br>13,243<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3 | SPF<br>SPF<br>3 4<br>3 4<br>4<br>5 4<br>3 4<br>4<br>2 4<br>5 6 mm                               | 12<br>12<br>10<br>10<br>ation<br>shots<br>12<br>12<br>12<br>10<br>10<br>10<br>ation  | Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81   | 4,382<br>8,882<br>:<br>:<br>:<br>tte:<br>ate:<br>4,321<br>5,413<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>: | 239,800<br>psi<br>psi<br>8,900<br>8,078<br>80.9<br>72.1<br>65,740<br>240,160<br>psi<br>psi<br>8,891<br>7,742<br>80.9<br>79.8        | Ibm / Interval Comments Comments psi psi bpm bpm lbm / lbm / lbm / Interval Comments Comments psi psi bpm psi ppi bpm bpm psi bpm  |   |
| C        | (MD ft)<br>13,4<br>13,5<br>13,5<br>13,2<br>Date<br>Date<br>(MD ft)<br>13,4<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7     | (<br>440<br>390<br>290<br>Perf. 5<br>Open<br>E<br>(<br>240<br>190<br>140<br>990<br>Perf. 5  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>4<br>3<br>13,243<br>13,243<br>13,193<br>13,142<br>13,092<br>Status<br>13,142<br>13,243<br>13,243<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3 | SPF<br>SPF<br>3 4<br>3 4<br>4<br>5 4<br>3 4<br>4<br>2 4<br>5 6 mm                               | 12<br>12<br>10<br>10<br>ation<br>shots<br>12<br>12<br>12<br>10<br>10<br>10<br>ation  | Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80   | 4,382<br>8,882<br>::<br>ite:<br>ate:<br>4,321<br>5,413<br>::<br>ite:<br>ate:<br>ate:<br>ite:<br>ate:   | 239,800<br>239,800<br>psi<br>8,900<br>8,078<br>80.9<br>72.1<br>65,740<br>240,160<br>psi<br>8,891<br>7,742<br>80.9<br>79.8<br>64,000 | Ibm /<br>Interval Comments<br>Comments<br>psi<br>ppi<br>bpm<br>bpm<br>Ibm /<br>Ibm /<br>Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>psi<br>psi<br>psi  |   |
| C        | (MD ft)<br>13,4<br>13,5<br>13,5<br>13,5<br><b>Date</b><br><b>Date</b><br><b>Top</b><br>(MD ft)<br>13,7<br>13,7<br>13,7<br>13,7<br><b>Date</b>  | (1440<br>3900<br>3440<br>2900<br>2900<br>Perf. 5<br>00pen<br>1440<br>0090<br>Perf. 5<br>00pen   | MD ft)  13,443  13,393  13,342  13,292 <b>Status</b> 3  3  3  3  3  3  3  3  3  3  3  3  3   | SPF<br>SPF<br>SPF<br>SPF<br>SPF<br>SPF<br>SPF<br>SPF<br>SPF<br>SPF                              | 12<br>12<br>10<br>10<br>ation<br>ing<br>Shots<br>12<br>12<br>12<br>10<br>10<br>ation<br>ing  | Phasing (deg)<br>600<br>600<br>600<br>600<br>600<br>600<br>600<br>60  | 4,382<br>8,882<br>5<br>tte:<br>ate:<br>4,321<br>5,413<br>5,413<br>5<br>tte:<br>ate:<br>5   | 239,800<br>psi<br>psi<br>8,900<br>8,078<br>80.9<br>72.1<br>65,740<br>240,160<br>psi<br>psi<br>8,891<br>7,742<br>80.9<br>79.8        | Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /<br>Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>psi<br>bpm<br>Ibm /<br>Ibm / |   |
| C        | (MD ft)<br>13,4<br>13,5<br>13,5<br>13,5<br>Date<br>Top<br>(MD ft)<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>1 | (<br>440<br>390<br>290<br>290<br>Perf. 5<br>Open<br>E<br>(<br>240<br>190<br>140<br>090<br>Perf. 5<br>Open   | MD ft)   | SPF<br>SPF<br>3 4<br>3 4<br>4<br>5 4<br>3 4<br>4<br>2 4<br>5 6 mm                               | 12<br>12<br>10<br>10<br>ation<br>shots<br>12<br>12<br>12<br>10<br>10<br>10<br>ation  | Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80   | 4,382<br>8,882<br>5<br>tte:<br>ate:<br>4,321<br>5,413<br>5,413<br>5<br>tte:<br>ate:<br>5   | 239,800<br>239,800<br>psi<br>8,900<br>8,078<br>80.9<br>72.1<br>65,740<br>240,160<br>psi<br>8,891<br>7,742<br>80.9<br>79.8<br>64,000 | Ibm /<br>Interval Comments<br>Comments<br>psi<br>ppi<br>bpm<br>bpm<br>Ibm /<br>Ibm /<br>Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>psi<br>psi<br>psi  |   |
| C        | (MD ft)<br>13,4<br>13,5<br>13,5<br>13,5<br>13,5<br>Date<br>Top<br>(MD 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| MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br>Status<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3  | SPF<br>SPF<br>SPF<br>SPF  | 12<br>12<br>10<br>10<br>ation<br>ing<br>Shots<br>12<br>12<br>12<br>12<br>10<br>10<br>10<br>ation<br>ing<br>Shots   | Phasing (deg)<br>600<br>600<br>600<br>600<br>600<br>600<br>600<br>810<br>810<br>810<br>810<br>810<br>810<br>810<br>8  | 4,382<br>8,882<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:   | 239,800<br>239,800<br>psi<br>8,900<br>8,078<br>80.9<br>72.1<br>65,740<br>240,160<br>psi<br>8,891<br>7,742<br>80.9<br>79.8<br>64,000 | Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /<br>Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>psi<br>bpm<br>Ibm /<br>Ibm /          |   |
| C        | (MD ft)<br>13,4<br>13,5<br>13,5<br>13,5<br>13,5<br>Date<br>Top<br>(MD ft)<br>13,2<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>1 | (<br>440<br>390<br>340<br>290<br>Perf. 5<br>Open<br>E<br>(<br>440<br>190<br>140<br>D90<br>Perf. 5<br>Open<br>E<br>(<br>440<br>190<br>140<br>D90<br>Perf. 5<br>Open  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br><b>Status</b><br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3   | SPF<br>SPF<br>SPF<br>SPF<br>SPF   | 12<br>12<br>10<br>10<br>ation<br>ing<br>Shots<br>12<br>12<br>12<br>10<br>10<br>10<br>10<br>ation<br>10<br>10<br>20<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10 | Phasing (deg)<br>600<br>600<br>600<br>600<br>600<br>600<br>600<br>810<br>810<br>810<br>810<br>810<br>810<br>810<br>8  | 4,382<br>8,882<br>:<br>:<br>:<br>tte:<br>ate:<br>  | 239,800<br>239,800<br>psi<br>8,900<br>8,078<br>80.9<br>72.1<br>65,740<br>240,160<br>psi<br>8,891<br>7,742<br>80.9<br>79.8<br>64,000 | Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /<br>Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>psi<br>bpm<br>Ibm /<br>Ibm /          |   |
| C        | (MD ft)<br>13,4<br>13,5<br>13,5<br>13,5<br>13,5<br>Date<br>Top<br>(MD ft)<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>1 | (<br>440<br>390<br>340<br>290<br>Perf. 5<br>Open<br>E<br>(140<br>190<br>140<br>190<br>Perf. 5<br>Open<br>E<br>(140<br>190<br>140<br>190<br>Perf. 5<br>Open  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br><b>Status</b><br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3   | SPF<br>SPF<br>SPF<br>SPF<br>SPF<br>SPF<br>SPF   | 12<br>12<br>10<br>10<br>ation<br>ing<br>Shots<br>12<br>12<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10  | Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81   | 4,382<br>8,882<br>:<br>:<br>:<br>:<br>tte:<br>ate:<br>   | 239,800<br>239,800<br>psi<br>8,900<br>8,078<br>80.9<br>72.1<br>65,740<br>240,160<br>psi<br>8,891<br>7,742<br>80.9<br>79.8<br>64,000 | Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /<br>Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>psi<br>bpm<br>Ibm /<br>Ibm /          |   |
| C        | (MD ft)<br>13,4<br>13,5<br>13,5<br>13,5<br>13,5<br>Date<br>Top<br>(MD ft)<br>13,2<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>1 | (<br>440<br>390<br>340<br>290<br>Perf. 5<br>Open<br>E<br>(140<br>190<br>140<br>190<br>Perf. 5<br>Open<br>E<br>(140<br>190<br>140<br>190<br>Perf. 5<br>Open  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br><b>Status</b><br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3   | SPF<br>SPF<br>SPF<br>SPF<br>SPF<br>SPF  | 12<br>12<br>10<br>10<br>ation<br>ing<br>Shots<br>12<br>12<br>12<br>10<br>10<br>10<br>10<br>ation<br>10<br>10<br>20<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10 | Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81<br>81   | 4,382<br>8,882<br>:<br>:<br>:<br>:<br>tte:<br>ate:<br>   | 239,800<br>239,800<br>psi<br>8,900<br>8,078<br>80.9<br>72.1<br>65,740<br>240,160<br>psi<br>8,891<br>7,742<br>80.9<br>79.8<br>64,000 | Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /<br>Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>psi<br>bpm<br>Ibm /<br>Ibm /          |   |
| C        | (MD ft)<br>13,4<br>13,5<br>13,5<br>13,5<br>13,5<br>Date<br>Top<br>(MD ft)<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>1 | (<br>440<br>390<br>340<br>290<br>Perf. 5<br>Open<br>E<br>(<br>240<br>190<br>Perf. 5<br>Open<br>E<br>(<br>240<br>0<br>90<br>Perf. 5<br>Open  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br><b>Status</b><br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3   | SPF<br>SPF<br>SPF<br>SPF<br>SPF<br>SPF<br>SPF<br>SPF<br>SPF<br>SPF                              | 12<br>12<br>10<br>10<br>ation<br>ing<br>Shots<br>12<br>12<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10  | Phasing (deg)           60 | 4,382<br>8,882<br>:<br>:<br>:<br>tte:<br>ate:<br>4,321<br>5,413<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:                               | 239,800<br>239,800<br>psi<br>8,900<br>8,078<br>80.9<br>72.1<br>65,740<br>240,160<br>psi<br>8,891<br>7,742<br>80.9<br>79.8<br>64,000 | Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /<br>Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>psi<br>bpm<br>Ibm /<br>Ibm /          |   |
| C        | (MD ft)<br>13,4<br>13,5<br>13,5<br>13,5<br>13,5<br>Date<br>Top<br>(MD ft)<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>13,7<br>1 | (<br>440<br>390<br>340<br>290<br>Perf. 5<br>Open<br>E<br>(<br>240<br>190<br>Perf. 5<br>Open<br>E<br>(<br>240<br>0<br>90<br>Perf. 5<br>Open  | MD ft)<br>13,443<br>13,393<br>13,342<br>13,292<br><b>Status</b><br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3   | SPF<br>SPF<br>SPF<br>SPF<br>SPF<br>SPF<br>SPF<br>SPF<br>SPF<br>SPF                              | 12<br>12<br>10<br>10<br>ation<br>ing<br>Shots<br>12<br>12<br>10<br>10<br>10<br>ation<br>ing<br>Shots<br>12<br>12<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   | Phasing (deg)           60 | 4,382<br>8,882<br>:<br>:<br>:<br>tte:<br>ate:<br>4,321<br>5,413<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:                               | 239,800<br>239,800<br>psi<br>8,900<br>8,078<br>80.9<br>72.1<br>65,740<br>240,160<br>psi<br>8,891<br>7,742<br>80.9<br>79.8<br>64,000 | Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /<br>Ibm /<br>Interval Comments<br>Comments<br>psi<br>psi<br>psi<br>bpm<br>Ibm /<br>Ibm /          |   |

|   | st Upda   |  |  |   |  |   |  |                                       |
|---|---|--|--|---|--|---|--|---------------------------------------|
| 0 | Date  | Perf. Status   | Form   |   |  |   | Comments   |                                       |
|   | C   | Open   | 3rd Bone Sp  | ring  | Stage 13<br>Initial WHP: 4,311   | nei   |  |                                       |
|   |   |  |  |   | Breakdown: 7,769   | psi<br>psi  |  |                                       |
|   |   |  |  |   | Max Pressure:  | 8,956   | psi  |                                       |
|   |   |  |  |   | Avg. Pressure:   | 7,890   | psi  |                                       |
|   |   |  |  | 8.1   | Max Slurry Rate:   | 82.1  | bpm  |                                       |
|   |   |  |  |   | Avg. Slurry Rate:  | 75.1  | bpm  |                                       |
|   |   |  |  |   | 40/70 ProLite:   | 65,560  | lbm /  |                                       |
|   |   | -  |  |   | 20/40 ProLite:   | 243,070   | lbm /  |                                       |
|   | Top<br>(MD ft)  | Bottom<br>(MD ft)  | SPF  | Shots   | Phasing (deg)  |   | Interval Comments  |                                       |
| - | 12,84   |  | 343 4  | 12  | 60   |   |  |                                       |
| _ | 12,79   |  |  | 12  | 60   |   |  |                                       |
| _ |   |  |  |   |  |   |  |                                       |
|   | 12,74   |  |  | 10  | 60   |   |  |                                       |
|   | 12,69   | 90 12,0  | 592 4  | 10  | 60   |   |  |                                       |
|   | Date  | Perf. Status   | Form   | ation   |  |   | Comments   |                                       |
|   | 0   | Open   | 3rd Bone Sp  | ring  | Stage 14   |   |  |                                       |
|   |   |  |  |   | Initial WHP: 4,394   | psi   |  |                                       |
|   |   |  |  |   | Breakdown: 5,999   | psi   |  |                                       |
|   |   |  |  |   | Max Pressure:  | 9,248   | psi  |                                       |
|   |   |  |  |   | Avg. Pressure:<br>Max Slurry Rate:   | 7,200 81.1  | psi<br>bpm   |                                       |
|   |   |  |  |   | Avg. Slurry Rate:  | 78.9  | bpm  |                                       |
|   |   |  |  |   | 40/70 ProLite:   | 65,480  | lbm /  |                                       |
|   |   |  |  |   | 20/40 ProLite:   | 241,500   | lbm /  |                                       |
| - | Тор   | Bottom   | SPF  | Shots   | Phasing (deg)  |   | Interval Comments  |                                       |
|   | (MD ft)   | (MD ft)  |  |   |  |   |  |                                       |
|   | 12,64   | 40 12,   | 643 4  | 12  | 60   |   |  |                                       |
| _ | 12,59   | 90 12,   | 593 4  | 12  | 60   |   |  |                                       |
| - | 12,54   |  |  | 10  |  |   |  |                                       |
| - | 12,49   |  |  | 10  | 60   |   |  |                                       |
| _ |   |  |  |   | 00   |   |  |                                       |
|   | Date  | Perf. Status   | Form   |   |  |   | Comments   |                                       |
|   | C   | Open   | 3rd Bone Sp  | ring  | Stage 15   |   |  |                                       |
|   |   |  |  |   | Initial WHP: 4,253   | psi   |  |                                       |
|   |   |  |  |   | Breakdown: 6,325   | psi   |  |                                       |
| 1 |   |  |  |   | Max Pressure:<br>Avg. Pressure:  | 8,392<br>7,101  | psi<br>psi   |                                       |
|   |   |  |  |   | Max Slurry Rate:   | 80.6  | bpm  |                                       |
|   |   |  |  |   | Avg. Slurry Rate:  | 79.9  | bpm  |                                       |
|   |   |  |  |   | 40/70 ProLite:   | 65,486  | lbm /  |                                       |
|   |   |  |  |   | 20/40 ProLite:   | 246,420   | lbm /  |                                       |
|   | Тор   | Bottom   | SPF  | Shots   | Phasing (deg)  |   | Interval Comments  |                                       |
|   | (MD ft)   | (MD ft)  |  |   |  |   |  |                                       |
|   | 12,44   |  |  | 12  | 60   |   |  |                                       |
|   | 12,39   |  |  |   |  |   |  |                                       |
| - |   | 90 12,   | 393 4  | 12  | 60   |   |  |                                       |
| - | 12,34   |  |  | 12<br>10  | 60<br>60   |   |  |                                       |
|   | A   | 40 12,   | 342 4  | 10  | 60   |   |  |                                       |
| 1 | 12,28   | 40 12,<br>80 12,   | 342 4<br>282 4   | 10<br>10  |  |   | 2  |                                       |
|   | 12,28<br>Date   | 40 12,<br>80 12,<br>Perf. Status   | 342 4<br>282 4<br>Form   | 10<br>10<br>ation   | 60<br>60   |   | Comments   |                                       |
|   | 12,28<br>Date   | 40 12,<br>80 12,   | 342 4<br>282 4   | 10<br>10<br>ation   | 60<br>60<br>Stage 16   |   | Comments   |                                       |
|   | 12,28<br>Date   | 40 12,<br>80 12,<br>Perf. Status   | 342 4<br>282 4<br>Form   | 10<br>10<br>ation   | 60<br>60<br>Stage 16<br>Initial WHP: 4,314   | psi   | Comments   |                                       |
|   | 12,28<br>Date   | 40 12,<br>80 12,<br>Perf. Status   | 342 4<br>282 4<br>Form   | 10<br>10<br>ation   | 60<br>60<br>Stage 16   | psi<br>psi<br>9,817   | Comments   |                                       |
|   | 12,28<br>Date   | 40 12,<br>80 12,<br>Perf. Status   | 342 4<br>282 4<br>Form   | 10<br>10<br>ation   | 60<br>60<br>Stage 16<br>Initial WHP: 4,314<br>Breakdown: 8,182   | psi   |  |                                       |
|   | 12,28<br>Date   | 40 12,<br>80 12,<br>Perf. Status   | 342 4<br>282 4<br>Form   | 10<br>10<br>ation   | 60<br>60<br>Stage 16<br>Initial WHP: 4,314<br>Breakdown: 8,182<br>Max Pressure:<br>Avg. Pressure:<br>Max Slury Rate:   | psi<br>9,817<br>7,178<br>81.0   | psi<br>psi<br>bpm  |                                       |
|   | 12,28<br>Date   | 40 12,<br>80 12,<br>Perf. Status   | 342 4<br>282 4<br>Form   | 10<br>10<br>ation   | 60<br>60<br>Stage 16<br>Initial WHP: 4,314<br>Breakdown: 8,182<br>Max Pressure:<br>Avg. Pressure:<br>Max Slurry Rate:<br>Avg. Slurry Rate:   | psi<br>9,817<br>7,178<br>81.0<br>75.4   | psi<br>psi<br>bpm<br>bpm   |                                       |
|   | 12,28<br>Date   | 40 12,<br>80 12,<br>Perf. Status   | 342 4<br>282 4<br>Form   | 10<br>10<br>ation   | 60<br>60<br>Stage 16<br>Initial WHP: 4,314<br>Breakdown: 8,182<br>Max Pressure:<br>Avg. Pressure:<br>Avg. Slurry Rate:<br>Avg. Slurry Rate:<br>40/70 ProLite:  | psi<br>9,817<br>7,178<br>81.0<br>75.4<br>63,000   | psi<br>psi<br>bpm<br>lbm /   |                                       |
|   | 12,28<br>Date   | 40 12,<br>80 12,<br><b>Perf. Status</b><br>Open  | 342 4<br>282 4<br>Srd Bone Sp  | 10<br>10<br>aation  | 60<br>60<br>Stage 16<br>Initial WHP: 4,314<br>Breakdown: 8,182<br>Max Pressure:<br>Avg. Pressure:<br>Max Slurry Rate:<br>Avg. Slurry Rate:<br>40/70 ProLite:<br>20/40 ProLite:   | psi<br>9,817<br>7,178<br>81.0<br>75.4   | psi<br>psi<br>bpm<br>lbm /<br>lbm /  |                                       |
|   | 12,28<br>Date   | 40 12;<br>80 12;<br>Perf. Status<br>Dpen   | 342 4<br>282 4<br>Form   | 10<br>10<br>ation   | 60<br>60<br>Stage 16<br>Initial WHP: 4,314<br>Breakdown: 8,182<br>Max Pressure:<br>Avg. Pressure:<br>Avg. Slurry Rate:<br>Avg. Slurry Rate:<br>40/70 ProLite:  | psi<br>9,817<br>7,178<br>81.0<br>75.4<br>63,000   | psi<br>psi<br>bpm<br>lbm /   |                                       |
|   | 12,28<br>Date C   | 40 12,<br>30 12,<br>Perf. Status<br>Open<br>Bottom<br>(MD ft)  | 342 4<br>282 4<br>3rd Bone Sp<br>SPF   | 10<br>10<br>ation<br>ring<br>Shots  | 60<br>60<br>Stage 16<br>Initial WHP: 4,314<br>Breakdown: 8,182<br>Max Pressure:<br>Avg. Pressure:<br>Max Slurry Rate:<br>Avg. Slurry Rate:<br>4070 ProLite:<br>20/40 ProLite:<br>Phasing (deg)   | psi<br>9,817<br>7,178<br>81.0<br>75.4<br>63,000   | psi<br>psi<br>bpm<br>lbm /<br>lbm /  |                                       |
|   | 12,28<br>Date C<br>Top<br>(MD ft)<br>12,24  | 40 12,<br>80 12,<br>Perf. Status<br>Open<br>Bottom<br>(MD ft)<br>40 12,  | 342 4<br>282 4<br>3rd Bone Sp<br>SPF<br>243 4  | 10<br>10<br>ation<br>ring<br>Shots  | 60<br>60<br>Stage 16<br>Initial WHP: 4,314<br>Breakdown: 8,182<br>Max Pressure:<br>Avg. Pressure:<br>Avg. Slurry Rate:<br>Avg. Slurry Rate:<br>Avg. Slurry Rate:<br>20/40 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60  | psi<br>9,817<br>7,178<br>81.0<br>75.4<br>63,000   | psi<br>psi<br>bpm<br>lbm /<br>lbm /  |                                       |
|   | 12,28<br>Date<br>C<br>Top<br>(MD ft)<br>12,24<br>12,17  | 40 12,<br>80 12,<br>Perf. Status<br>Open<br>Bottom<br>(MD ft)<br>40 12,<br>75 12,  | 342 4<br>282 4<br>3rd Bone Sp<br>3rd Bone Sp<br>243 4<br>178 4   | 6 10<br>10<br>ation<br>ring<br>Shots<br>6 12<br>6 12  | 60<br>60<br>Stage 16<br>Initial WHP: 4,314<br>Breakdown: 8,182<br>Max Pressure:<br>Avg. Pressure:<br>Max Slurry Rate:<br>Avg. Slurry Rate:<br>40/70 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60  | psi<br>9,817<br>7,178<br>81.0<br>75.4<br>63,000   | psi<br>psi<br>bpm<br>lbm /<br>lbm /  |                                       |
|   | 12,28<br>Date<br>C<br>Top<br>(MD ft)<br>12,24<br>12,17<br>12,13   | Bottom           (MD ft)           40           12,           Berf. Status           Open  | 342 4<br>282 4<br>3rd Bone Sp<br>243 4<br>132 4  | 10     10     10     ation ring     Shots     12     12     10  | 60<br>60<br>5tage 16<br>Initial WHP: 4,314<br>Breakdown: 8,182<br>Max Pressure:<br>Avg. Pressure:<br>Avg. Slurry Rate:<br>40/70 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60<br>60  | psi<br>9,817<br>7,178<br>81.0<br>75.4<br>63,000   | psi<br>psi<br>bpm<br>lbm /<br>lbm /  |                                       |
|   | 12,28<br>Date<br>C<br>Top<br>(MD ft)<br>12,24<br>12,17  | Bottom           (MD ft)           40           12,           Berf. Status           Open  | 342 4<br>282 4<br>3rd Bone Sp<br>243 4<br>132 4  | 6 10<br>10<br>ation<br>ring<br>Shots<br>6 12<br>6 12  | 60<br>60<br>5tage 16<br>Initial WHP: 4,314<br>Breakdown: 8,182<br>Max Pressure:<br>Avg. Pressure:<br>Avg. Slurry Rate:<br>40/70 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60<br>60  | psi<br>9,817<br>7,178<br>81.0<br>75.4<br>63,000   | psi<br>psi<br>bpm<br>lbm /<br>lbm /  |                                       |
|   | 12,28<br>Date<br>C<br>Top<br>(MD ft)<br>12,24<br>12,17<br>12,13   | Bottom           (MD ft)           40           12,           Berf. Status           Open  | 342 4<br>282 4<br>3rd Bone Sp<br>243 4<br>178 4<br>132 4   | 10     10     10     ation ring     Shots     12     12     10  | 60<br>60<br>5tage 16<br>Initial WHP: 4,314<br>Breakdown: 8,182<br>Max Pressure:<br>Avg. Pressure:<br>Avg. Slurry Rate:<br>40/70 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60<br>60  | psi<br>9,817<br>7,178<br>81.0<br>75.4<br>63,000   | psi<br>psi<br>bpm<br>lbm /<br>lbm /  |                                       |
|   | 12,26<br>Date   | Bottom           (MD ft)           40           12,           Perf. Status   | 342 4<br>282 4<br>3rd Bone Sp<br>243 4<br>178 4<br>132 4<br>067 4  | 10     10     10     10     10     10     11     12     12     12     10     10     10     10     ation   | 60<br>60<br>5tage 16<br>Initial WHP: 4,314<br>Breakdown: 8,182<br>Max Pressure:<br>Avg. Pressure:<br>Avg. Slurry Rate:<br>Avg. Slurry Rate:<br>40/70 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60<br>60<br>60   | psi<br>9,817<br>7,178<br>81.0<br>75.4<br>63,000   | psi<br>psi<br>bpm<br>lbm /<br>lbm /<br>Interval Comments                         |                                       |
|   | 12,26<br>Date   | Bottom           (MD ft)           40           12,           Berf. Status           Open  | 342 4<br>282 4<br>3rd Bone Sp<br>243 4<br>178 4<br>132 4   | 10     10     10     10     10     10     11     12     12     12     10     10     10     10     ation   | 60<br>60<br>5tage 16<br>Initial WHP: 4,314<br>Breakdown: 8,182<br>Max Pressure:<br>Avg. Pressure:<br>Max Slury Rate:<br>Avg. Slury Rate:<br>40/70 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60  | psi<br>9,817<br>7,178<br>81.0<br>75.4<br>63,000<br>245,750  | psi<br>psi<br>bpm<br>lbm /<br>lbm /<br>Interval Comments                         |                                       |
|   | 12,26<br>Date   | Bottom           (MD ft)           40           12,           Perf. Status   | 342 4<br>282 4<br>3rd Bone Sp<br>243 4<br>178 4<br>132 4<br>067 4  | 10     10     10     10     10     10     11     12     12     12     10     10     10     10     ation   | 60<br>60<br>5tage 16<br>Initial WHP: 4,314<br>Breakdown: 8,182<br>Max Pressure:<br>Avg. Pressure:<br>Avg. Slurry Rate:<br>Avg. Slurry Rate:<br>40/70 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>5tage 17<br>Initial WHP: 4,161<br>Breakdown: 7,757   | psi<br>9,817<br>7,178<br>81.0<br>75.4<br>63,000<br>245,750  | psi<br>psi<br>bpm<br>lbm /<br>lbm /<br>Interval Comments                         |                                       |
|   | 12,26<br>Date   | Bottom           (MD ft)           40           12,           Perf. Status   | 342 4<br>282 4<br>3rd Bone Sp<br>243 4<br>178 4<br>132 4<br>067 4  | 10     10     10     10     10     10     11     12     12     12     10     10     10     10     ation   | 60<br>60<br>5tage 16<br>Initial WHP: 4,314<br>Breakdown: 8,182<br>Max Pressure:<br>Avg. Pressure:<br>Avg. Pressure:<br>Avg. Slurry Rate:<br>40/70 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>5tage 17<br>Initial WHP: 4,161<br>Breakdown: 7,757<br>Max Pressure8,261   | psi<br>9,817<br>7,178<br>81.0<br>75.4<br>63,000<br>245,750<br>245,750   | psi<br>psi<br>bpm<br>bpm<br>lbm /<br>lbm /<br>Interval Comments                  |                                       |
|   | 12,26<br>Date   | Bottom           (MD ft)           40           12,           Perf. Status   | 342 4<br>282 4<br>3rd Bone Sp<br>243 4<br>178 4<br>132 4<br>067 4  | 10     10     10     10     10     10     11     12     12     12     10     10     10     10     ation   | 60<br>60<br>5tage 16<br>Initial WHP: 4,314<br>Breakdown: 8,182<br>Max Pressure:<br>Avg. Slurry Rate:<br>Avg. Slurry Rate:<br>40/70 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60   | psi<br>9,817<br>7,178<br>81.0<br>75.4<br>63,000<br>245,750<br>  | psi<br>psi<br>bpm<br>bpm<br>lbm /<br>Interval Comments<br>Comments               |                                       |
|   | 12,26<br>Date   | Bottom           (MD ft)           40           12,           Perf. Status   | 342 4<br>282 4<br>3rd Bone Sp<br>243 4<br>178 4<br>132 4<br>067 4  | 10     10     10     10     10     10     11     12     12     12     10     10     10     10     ation   | 60<br>60<br>60<br>Stage 16<br>Initial WHP: 4,314<br>Breakdown: 8,182<br>Max Pressure:<br>Avg. Slurry Rate:<br>Avg. Slurry Rate:<br>40/70 ProLite:<br>20/40 ProLite:<br>Phasing (deg)<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60   | psi<br>9,817<br>7,178<br>81.0<br>75.4<br>63,000<br>245,750<br>  | psi<br>psi<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments             |                                       |
|   | 12,26<br>Date   | Bottom           (MD ft)           40           12,           Perf. Status   | 342 4<br>282 4<br>3rd Bone Sp<br>243 4<br>178 4<br>132 4<br>067 4  | 10     10     10     10     10     10     11     12     12     12     10     10     10     10     ation   | 60           60           60           Stage 16           Initial WHP: 4,314           Breakdown: 8,182           Max Pressure:           Avg. Pressure:           Avg. Slury Rate:           40/70 ProLite:           Phasing (deg)           60           7.757           Max Pressure8,261           Avg. Slury Rate:           Avg. Slury Rate:                               | psi<br>9,817<br>7,178<br>81.0<br>75.4<br>63,000<br>245,750<br>245,750<br>psi<br>psi<br>psi<br>psi<br>psi<br>7,349<br>81.1<br>76.4 | psi<br>psi<br>bpm<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments      |                                       |
|   | 12,26<br>Date   | Bottom           (MD ft)           40           12,           Perf. Status   | 342 4<br>282 4<br>3rd Bone Sp<br>243 4<br>178 4<br>132 4<br>067 4  | 10     10     10     10     10     10     11     12     12     12     10     10     10     10     ation   | 60           60           60           Stage 16           Initial WHP: 4,314           Breakdown: 8,182           Max Pressure:           Avg. Slurry Rate:           Avg. Slurry Rate:           4070 ProLite:           20/40 ProLite:           20/40 ProLite:           Phasing (deg)           60  | psi<br>9,817<br>7,178<br>81.0<br>75.4<br>63,000<br>245,750<br>245,750<br>psi<br>psi<br>psi<br>7,349<br>81.1<br>76.4<br>65,480     | psi<br>psi<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments             |                                       |
|   | 12,26<br>Date   | 40 12,<br>80 12,<br>Perf. Status<br>Open<br>(MD ft)<br>40 12,<br>75 12,<br>30 12,<br>65 12,<br>Perf. Status<br>Open  | 342 4<br>282 4<br>3rd Bone Sp<br>3rd Bone Sp<br>243 4<br>132 4<br>267 4<br>132 4<br>267 4<br>132 4<br>267 4  | 10     10     10     ation     ring     Shots     12     12     10     10     ation     ring     ring   | 60           60           60           Stage 16           Initial WHP: 4,314           Breakdown: 8,182           Max Pressure:           Avg. Pressure:           Avg. Slurry Rate:           Avg. Slurry Rate:           40/70 ProLite:           Phasing (deg)           60   | psi<br>9,817<br>7,178<br>81.0<br>75.4<br>63,000<br>245,750<br>245,750<br>psi<br>psi<br>psi<br>psi<br>psi<br>7,349<br>81.1<br>76.4 | psi<br>psi<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments<br>Comments | · · · · · · · · · · · · · · · · · · · |
|   | 12,25<br>Date   | Bottom           (MD ft)           40           12,           Perf. Status           Open           40           12,           Perf. Status           75           12,           30           12,           65           12,           Perf. Status           Open   | 342 4<br>282 4<br>3rd Bone Sp<br>243 4<br>178 4<br>132 4<br>067 4  | 10     10     10     10     10     10     11     12     12     12     10     10     10     10     ation   | 60           60           60           Stage 16           Initial WHP: 4,314           Breakdown: 8,182           Max Pressure:           Avg. Slurry Rate:           Avg. Slurry Rate:           4070 ProLite:           20/40 ProLite:           20/40 ProLite:           Phasing (deg)           60  | psi<br>9,817<br>7,178<br>81.0<br>75.4<br>63,000<br>245,750<br>245,750<br>psi<br>psi<br>psi<br>7,349<br>81.1<br>76.4<br>65,480     | psi<br>psi<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments             |                                       |
|   | 12,28<br>Date<br>C<br>(MD ft)<br>12,24<br>12,17<br>12,13<br>12,06<br>Date<br>C<br>Top<br>(MD ft)  | 40 12,<br>80 12,<br>Perf. Status<br>Dpen<br>(MD ft)<br>40 12,<br>75 12,<br>30 12,<br>65 12,<br>Perf. Status<br>Dpen<br>Bottom<br>(MD ft)   | 342 4<br>282 4<br>3rd Bone Sp<br>3rd Bone Sp<br>243 4<br>178 4<br>132 4<br>067 4<br>132 4<br>067 4<br>3rd Bone Sp<br>3rd Bone Sp   | Shots Shots Shots Shots Shots Shots Shots   | 60           60           60           Stage 16           Initial WHP: 4,314           Breakdown: 8,182           Max Pressure:           Avg. Pressure:           Avg. Slurry Rate:           Avg. Slurry Rate:           Avg. Slurry Rate:           40/70 ProLite:           20/40 ProLite:           Phasing (deg)           60           7.757           Max Pressure:           Avg. Slurry Rate:           Avg. Slurry Rate:           Avg. Slurry Rate: | psi<br>9,817<br>7,178<br>81.0<br>75.4<br>63,000<br>245,750<br>245,750<br>psi<br>psi<br>psi<br>7,349<br>81.1<br>76.4<br>65,480     | psi<br>psi<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments<br>Comments |                                       |
|   | 12,28<br>Date<br>C<br>(MD ft)<br>12,24<br>12,17<br>12,13<br>12,06<br>Date<br>C<br>Top<br>(MD ft)<br>12,03                                       | Bottom           (MD ft)           40           12,           Perf. Status           Open           65           12,           75           12,           75           12,           65           12,           75           12,           65           12,           65           12,           65           12,           0           12,           0           12,           0           12,           0           12,           0           12,           0           12,  | 342 4<br>282 4<br>3rd Bone Sp<br>3rd Bone Sp<br>243 4<br>178 4<br>132 4<br>267 4<br>3rd Bone Sp<br>3rd Bone Sp<br>3rd Bone Sp  | 10     10     10     ation     ring     Shots     12     10     10     10     10     ation     ring     Shots     4     12     Shots     4     12   | 60           60           60           Stage 16           Initial WHP: 4,314           Breakdown: 9,182           Max Pressure:           Avg. Pressure:           Avg. Slurry Rate:           AV070 ProLite:           20/40 ProLite:           Phasing (deg)           60           60           60           60           60           60           60           60           60           60           60           60           800           60           60           60           60           60           7.757           Max Pressure:           Max Slurry Rate:           Avg. Slurry Rate:           Avg. OroLite:           20/40 ProLite:           20/40 ProLite:           Phasing (deg)           60  | psi<br>9,817<br>7,178<br>81.0<br>75.4<br>63,000<br>245,750<br>245,750<br>psi<br>psi<br>psi<br>7,349<br>81.1<br>76.4<br>65,480     | psi<br>psi<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments<br>Comments |                                       |
|   | 12,28<br>Date<br>C<br>Top<br>(MD ft)<br>12,24<br>12,17<br>12,13<br>12,06<br>Date<br>C<br>Top<br>(MD ft)<br>12,03<br>11,97                       | Bottom           (MD ft)           40           12,           Perf. Status           Open           40           40           12,           Perf. Status           0           40           12,           40           12,           50           12,           65           12,           65           12,           65           12,           Open           Bottom           (MD ft)           30           12,           70   | 342         4           282         4           282         4           3rd Bone Sp         4           243         4           178         4           132         4           067         4           SPF         3rd Bone Sp           3rd Bone Sp         5           3rd Bone Sp         3           4         3           73         4   | 10     10     10     ation     ring     Shots     12     10     10     10     10     10     ation     ring     Shots     4     12     12     12   | 60           60           60           Stage 16           Initial WHP: 4,314           Breakdown: 9,182           Max Pressure:           Avg. Pressure:           Avg. Slurry Rate:           AV070 ProLite:           20/40 ProLite:           Phasing (deg)           60  | psi<br>9,817<br>7,178<br>81.0<br>75.4<br>63,000<br>245,750<br>245,750<br>psi<br>psi<br>psi<br>7,349<br>81.1<br>76.4<br>65,480     | psi<br>psi<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments<br>Comments |                                       |
|   | 12,28<br>Date<br>C<br>Top<br>(MD ft)<br>12,24<br>12,17<br>12,13<br>12,06<br>Date<br>C<br>Date<br>C<br>Top<br>(MD ft)<br>12,03<br>11,97<br>11,92 | Bottom           (MD ft)           40           12,           Perf. Status           Open           40           12,           Perf. Status           0           12,           40           12,           40           12,           50           12,           65           12,           65           12,           65           12,           0           12,           0           12,           0           12,           0           12,           0           12,           0           12,           0           12,           11,           25           11, | 342         4           282         4           282         4           3rd Bone Sp         4           3rd Bone Sp         4           132         4           067         4           SPF         4           3rd Bone Sp         4           033         4           973         4  | 10     10     10     ation     ring     Shots     12     10     10     10     10     10     10     ation     ring     Shots     12     1     10     1     1     1     1     1     1     1     1     1     1     1     1     1     1 | 60           60           60           Stage 16           Initial WHP: 4,314           Breakdown: 9,182           Max Pressure:           Avg. Pressure:           Avg. Slurry Rate:           AV070 ProLite:           20/40 ProLite:           Phasing (deg)           60  | psi<br>9,817<br>7,178<br>81.0<br>75.4<br>63,000<br>245,750<br>245,750<br>psi<br>psi<br>psi<br>7,349<br>81.1<br>76.4<br>65,480     | psi<br>psi<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments<br>Comments |                                       |
|   | 12,28<br>Date<br>C<br>Top<br>(MD ft)<br>12,24<br>12,17<br>12,13<br>12,06<br>Date<br>C<br>Top<br>(MD ft)<br>12,03<br>11,97                       | Bottom           (MD ft)           40           12,           Perf. Status           Open           40           12,           Perf. Status           0           12,           40           12,           40           12,           50           12,           65           12,           65           12,           65           12,           0           12,           0           12,           0           12,           0           12,           0           12,           0           12,           0           12,           11,           25           11, | 342         4           282         4           282         4           3rd Bone Sp         4           3rd Bone Sp         4           132         4           067         4           SPF         4           3rd Bone Sp         4           033         4           973         4  | 10     10     10     ation     ring     Shots     12     10     10     10     10     10     ation     ring     Shots     4     12     12     12   | 60           60           60           Stage 16           Initial WHP: 4,314           Breakdown: 9,182           Max Pressure:           Avg. Pressure:           Avg. Slurry Rate:           Avg. Slurry Rate:           40/70 ProLite:           20/40 ProLite:           Phasing (deg)           60   | psi<br>9,817<br>7,178<br>81.0<br>75.4<br>63,000<br>245,750<br>245,750<br>psi<br>psi<br>psi<br>7,349<br>81.1<br>76.4<br>65,480     | psi<br>psi<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments<br>Comments |                                       |
|   | 12,28<br>Date<br>C<br>Top<br>(MD ft)<br>12,24<br>12,17<br>12,13<br>12,06<br>Date<br>C<br>Date<br>C<br>Top<br>(MD ft)<br>12,03<br>11,97<br>11,92 | Bottom           (MD ft)           40           12,           Perf. Status           Open           40           12,           Perf. Status           0           12,           40           12,           40           12,           50           12,           65           12,           65           12,           65           12,           0           12,           0           12,           0           12,           0           12,           0           12,           0           12,           0           12,           11,           25           11, | 342         4           282         4           282         4           3rd Bone Sp         4           3rd Bone Sp         4           132         4           132         4           067         4           SPF         4           3rd Bone Sp         5           3rd Bone Sp         4           067         4           3rd Bone Sp         4           3rd Bone S | 10     10     10     ation     ring     Shots     12     10     10     10     10     10     10     ation     ring     Shots     12     1     10     1     1     1     1     1     1     1     1     1     1     1     1     1     1 | 60           60           60           Stage 16           Initial WHP: 4,314           Breakdown: 9,182           Max Pressure:           Avg. Pressure:           Avg. Slurry Rate:           AV070 ProLite:           20/40 ProLite:           Phasing (deg)           60  | psi<br>9,817<br>7,178<br>81.0<br>75.4<br>63,000<br>245,750<br>245,750<br>psi<br>psi<br>psi<br>7,349<br>81.1<br>76.4<br>65,480     | psi<br>psi<br>bpm<br>lbm /<br>lbm /<br>Interval Comments<br>Comments<br>Comments |                                       |

|                               |                             |   | 6/20                   | 16 06:2               |                                  |  |  |   | -  |
|-------------------------------|-----------------------------|---|------------------------|-----------------------|----------------------------------|--|--|---|--|
| C Date                        | _                           | rf. Status                                    | 20                     | Forma                 | 1103                             | Stage 19   |  |   | Comments   |
|                               | Open                        |   | 310                    | 3rd Bone Spring       |                                  | Stage 18<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Pressure<br>Max Slurry Ra<br>Avg. Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite: | psi<br>psi<br>bpm<br>lbm /<br>lbm /          |   |  |
| Top<br>(MD ft)                |                             | Bottom<br>(MD ft)                             |                        | SPF                   | Shots                            | Phasing (deg)  |  |   | Interval Comments  |
| 11                            | ,825                        | 1   | 1,828                  | 4                     | 12                               |  |  |   |  |
|                               | ,775                        |   | 1,778<br>1,727         | 4                     | 12                               |  |  |   |  |
|                               | ,675                        |   | 1,677                  | 4                     | 10                               | 1 miles  |  |   |  |
| C Date                        |                             | rf. Status                                    |                        | Form                  | ation                            |  |  |   | Comments   |
|                               | Oper                        | 1   | 310                    | d Bone Spr            | ing                              | Stage 19<br>Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Pressure<br>Max Slurry Ra<br>Avg. Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite: | 9,099 p<br>: 57<br>: 77<br>:te: 8<br>ate: 77 | osi<br>9,099<br>7,926<br>80.9<br>73.4<br>\$5,250<br>234,680 | psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /   |
| Top<br>(MD ft)                |                             | Bottom<br>(MD ft)                             |                        | SPF                   | Shots                            | Phasing (deg)  |  |   | Interval Comments  |
|                               | ,625<br>,575                |   | 1,628<br>1,578         | 4                     | 12                               |  |  |   |  |
|                               | ,575                        |   | 1,578                  | 4                     | 12                               |  |  |   |  |
|                               | ,475                        |   | 1,477                  | 4                     | 10                               |  |  |   |  |
| C Date                        | Pe                          | rf. Status                                    |                        | Form<br>t Bone Spr    |                                  | Stage 20   |  |   | Comments   |
|                               |                             |   |                        |                       |                                  | Initial WHP:<br>Breakdown:<br>Max Pressure<br>Avg. Pressure<br>Max Slurry Ra<br>Avg. Slurry Ra<br>40/70 ProLite:<br>20/40 ProLite:             | 7,775<br>:<br>:te:<br>ate:                   | osi<br>5,517<br>25.7<br>25.2<br>750<br>24,000               | psi<br>psi<br>bpm<br>bpm<br>Ibm /<br>Ibm /   |
| Top<br>(MD ft)                |                             | Bottom<br>(MD ft)                             |                        | SPF                   | Shots                            | Phasing (deg)  |  |   | Interval Comments  |
| Formation To                  | on Sur                      | nmarv   |                        |                       |                                  |  |  |   |  |
| Format                        |                             | -   | Top(T                  | VD ft)                |                                  |  |  | Com   | nments   |
| Rustler                       | _                           |   |                        | 1,869                 |                                  |  |  |   |  |
| Top of Salt                   |                             |   |                        | 2,447                 |                                  |  |  |   | · · · · · · · · · · · · · · · · · · ·  |
| Castile                       |                             |   |                        | 3,881                 |                                  |  |  |   |  |
| Base of Salt                  |                             |   |                        | 4,280                 |                                  |  |  |   |  |
| Yates                         |                             |   |                        | 4,443                 |                                  |  |  |   |  |
| Lamar Lime<br>Delaware        |                             |   | _                      | 5,739<br>5,834        |                                  |  |  |   |  |
| Cherry Canyo                  | n                           |   |                        | 6,052                 |                                  |  |  |   |  |
| Brushy Canyo                  | on                          |   |                        | 7,409                 |                                  |  |  |   |  |
| Lower Brushy                  |                             |   |                        | 8,458                 |                                  |  |  |   |  |
| Bone Spring (<br>Avalon Shale |                             | a   |                        | 8,718<br>8,792        |                                  |  |  |   |  |
| Avalon                        |                             |   |                        | 8,793                 |                                  |  |  |   |  |
| Base Avalon                   |                             |   |                        | 8,998                 |                                  |  |  |   |  |
| 2nd Avalon                    |                             |   |                        | 9,253                 |                                  |  |  |   |  |
| 1st Bone Spri<br>2nd Bone Spr | -                           |   |                        | 9,704<br>10,281       |                                  | the second second second second  |  |   |  |
| 3rd Bone Spr                  | -                           |   |                        | 11,103                |                                  |  |  |   |  |
| Well History<br>Date          | Summ                        | ary   |                        |                       |                                  |  | Comme  | nts   |  |
|                               | (24-0 h                     | rs) Finish                                    | cleani                 | ng pits. R/           | D Top Drive                      | & solid control e  |  |   | 06:00 hrs MST 9/21/14. Location is very sloppy.  |
|                               |                             |   |                        |                       |                                  | ad. Install 10K  |  |   | d to 10000 psi with test plug. Move in 10 frac tanks & 2 acid  |
|                               |                             |   |                        |                       | -                                | -  |  |   | ks. Spot 4 light towers & 2 trash trailers.  |
|                               | pit & P                     | oseidon ta                                    | nk.                    |                       |                                  |  |  |   | tanks with Fresh Water. Lay water transfer line from frac  |
|                               | motor<br>Counte<br>frac are | on 2" coil te<br>er read 14,<br>e on location | o 14,7<br>989'.<br>on. | 08' CTM.<br>PBTD 15,4 | Mill for 20 mir<br>78'. Decision | nutes w/ no foot<br>n made to repla  | age gain. Disp<br>ce electronic c            | blace hole w<br>ounter & att                                | h 11,116'. R/D wireline. R/U Coil Tubing. RIH w/ mill &<br>// nano surfactant fluid. Install mechanical counter. POH.<br>empt to drill out obstruction @ 14,708' CTM. All services for |
|                               | Sweep                       | oil clean &                                   | & pum                  | p 1000 gal            | s 15% acid.                      | r 50'. Continue<br>POH w/ coil. Do<br>cannibalized. "r   | epth indicator s                             | 09'. Drill ou<br>till not work                              | It cement from 15209' to 15,445'. Could not get deeper.<br>ing property. W/O replacement for depth indicator.  |

| <ul> <li>weier. Casing string presched. Prop to locate lask, PLN NCD bols on Call Maing. RH to 150 from unifies. Tail tool string. Continue In Note 1: 1000. The string on the casing bold presched. Networks of the casing bold presched. Reset paids of the casing bold presched. Reset paids of the casing bold presched. Reset paids of the casing bold presched base between 11.800 ft. 10.801. Decision made to abort fraz. PCH w/ Coll RD NCS bolds. RD Nator Trace of the casing bold presched base between 11.800 ft. 10.801. Decision made to abort fraz. PCH w/ Coll RD NCS bolds. RD Nator Trace of the casing bold presched base between 11.800 ft. 10.801. Decision made to abort fraz. PCH w/ Coll RD NCS bolds. RD Nator Trace of the casing bortogic aborts on 11.800.</li> <li>Classing Pheneson 2000, Ellistic bare, Frank RH PU 2776" work string to 11.802". Whereased by NCS. Displace hole w/ Coll RB NM PU API. String RH PU 2776" work string to 11.802". The string with frain water. Run Down Nole date casing brend water abort fraz. PCH with abort fraz. PCH 4: Store With a Coll RE DPW.</li> <li>Classing Pheneson 2000, Ellistic bare, Frank RH PU 2776" work string to 11.502". Wherease bits W-CS. Displace hole w/ Coll RB NM PU API. Store With 2000 Store With 2000.</li> <li>Classing Water Store With 2000 Store With</li></ul>  | Last Up    | uated: 5/20/2016 06.24 AM   |
|--|------------|---|
| <ul> <li>Weiter, Cassing streng prescheder. Prop to locate sails, PLM NCB tools on Coll Likeling. RHs to 169 from anthese. Text boot string. Continues in Note is 100000000000000000000000000000000000</li></ul>   |            |   |
| <ul> <li>Di Di Kirga Valas AVU Di K DOPE. Talley vork string. BHPU 331 js 2-78° tubing from pipe mass. EOT 19,44°. Secure Vell &amp; SDPN. VC: field string Vell Pipe. Secure Vell &amp; SDPN. VC: Secure Vell &amp; SDPN. VC: Secure Vell &amp; SDPN. VC: Calling Pressure 240 pt. Blied to smit. Finina RH PU 3274° vork string to 11.66°. VMINessed by VCS. Displace hole v600 bEAV, POH 48 displace hole v600 bEAV, POH 40 canners, RD v600 bEAV, POH 40 Canners,</li></ul>                          | 10/18/2014 | 10530'. Pressure tested packer & casing to 8500 psi. OK. Set packer @ 11,520'. Test to 8200 psi. Lost 200 psi in 8 minutes. Reset packer @ 11,605' tested casing to 6700 psi. Pump rate 1.5 bpm. Leaking. Reset packer @ 11,620 psi. Tested packer to 5400 psi. Pump rate 1.5 BPM. Leaking. Shut in pressure 3800 psi. Located leak between 11,560' & 11,620'. Decision made to abort frac. POH w/ coil R/D NCS tools. R/D            |
| Edit bechnicken will be on location this AM to vitimes going through service to 11.807.     Moread Vitimes and Xop Billing Control of the AM to vitimes going through a location of the XD.     Displace hole will be an location this AM to vitimes going through a location of the XD.     Secure will a SDPN.     Secu  | 10/22/2014 | MIRU WSU. Move in Rack 397 jts of 2-7/8" L-80 Work String.  |
| <ul> <li>stands to 84:4. Security Well &amp; SDFVKE.</li> <li>SD22014 RUL-Verlage B Reverse user, Run ED Coronalison log, Fill Hw Lubing to 11.564°, Disarch Lubing with fresh water. Run Down hole video camera from 1.004 to 11.564°, Disarch 2014 PC HUL-Disarch 20</li></ul>   | 10/23/2014 |   |
| 1.80/t b 11.56/t Inspected alevele # 30, Video did not see casing brench or alevele Make. Water Clarify was an issue. POH w/ canners. RD wereins. POH uD Tubing, ND GPRE. Install frax water w/r right cap. Secure well & SDFN. 10220214 RD VSDC, Raak Vakano, Sarry, 2.7/P 7.9/P 101, Pokay. Sec. May, NJ 104, Rours, WJ 105, BDPE. Test BDP, Falled @ 8500 pal. WD BDP. 11712014 Risk Nather, 2.7/P 7.9/P 101, Pokay. Sec. May, NJ 104, Rours, WJ 105, BDPE. Test BDP, Falled @ 8500 pal. WD BDP. 11712014 Risk Nather, 2.7/P 7.9/P 101, Pokay. Sec. May, NJ 104, Rours, WJ 105, BDPE. Test BDP, Falled @ 8500 pal. WD BDP. 11712014 Risk Nather, 2.7/P 7.9/P 104, Pokay. Sec. May, NJ 104, Rours, WJ 104, BDPE. Test BDP, Falled @ 8500 pal. WD BDP. 11712014 Risk Nather, 2.7/P 7.9/P 104, Pokay. Sec. May, NJ 104, Rours, MJ 104, BDPE. Test BDP. Test Angel ADP. 11712014 Risk Nather, 2.7/P 7.9/P 104, Pokay. Sec. May, NJ 104, Rours, MJ 104, BDPE. Test BDP. Test Angel ADP. 11712014 Risk Nather, 2.7/P 7.9/P 104, Pokay. Sec. May, NJ 104, Rours, MJ 1  |            | stands to 8614'. Secure Well & SDFWE.   |
| <ul> <li>BORDED I, BOL WELL, Class Location. Shut down wito orders.</li> <li>BOL WELL, Daak Veck Smyth, David Step P. 1997. 499 - F10 He Jubing, NID Frac Valve, NU 10K BOPE. Test BOP. Failed @ 8500 pai. ND BOP. Replace ring gasker. NU 80.P. Test 5000 pai. Loc 3000 pail. Loc 3000 pail. Sci 2000 pai</li></ul>   |            | 11,604' to 11,594'. Inspected sleeve # 39. Video did not see casing breech or sleeve leak. Water Clarity was an issue. POH w/ camera. R/D wireline. Secure well & SDFN.   |
| <ul> <li>111702101 Rad, Work Sting, 2-787 728 P-110 PH-E table, NDF Fac Vales, NU TOK BOPE. Test BOO, Failed @ 8500 pai. ND BOP. Replace on gravite. IV. 300 Ph. Test 6000 pp. 1289. Foot Wells &amp; SDFN.</li> <li>111720101 Finish In Note pt Lubing to 8759. RU viewline. Run correlation log, ECT @ 9759. RD viewline. Secura well &amp; SDFN.</li> <li>11172011 State of the state o</li></ul>   |            |   |
| <ul> <li>11/12014 Finish Finde ptu balong to 8759°, RU viewline. Run correlation log. EDT @ 8759°, RD viewline. Secure well &amp; SDFN.</li> <li>11/12014 Birl with Tis secure paster is 11.257. Problem with a balong. These targets on the secure well &amp; SDFN.</li> <li>11/12014 Test camp to 4000 pti. Held 4000 pti. Held 400 pti. Hel</li></ul>   |            | R/U WSU. Rack Work String. 2-7/8" 7.9# P-110 PH-6 tubing. N/D Frac Valve. N/U 10K BOPE. Test BOP. Failed @ 8500 psi. N/D BOP.   |
| <ul> <li>oblgation, WUO Bitt truck, Pressure test annulate to 4000 pp. list 200 piin 10 1570°.<br/>Test cables to Mode North, Med 4000 pp. list 200 piin 10 1570°. Secure well &amp; SDPN, North North Stever 40 (to 11.44.447) Hist Stever 30 (to 11.447) Hist Stever 30 (t</li></ul>                                 | 1/12/2014  |   |
| <ul> <li>pai. 5 min 4083 pai. 10 min 3945 pai. 15 min 3853 pai. 5 min 3853 pai. 16 min 3968 pai. 16 min 3968 pai. 5 min 3968 pai. 1 min 39</li></ul>   | 11/13/2014 | Test casing to 4000 psi. Held 4000 psi. POH w/ packer to 10,575'. Secure well & SDFN. Note: Sleeve 40 @ 11,444.84' TM & Sleeve 39 @   |
| packer set for 1/12 ms. Failed to work torque to packer. Free spinning tubing. Secure well & SDFN.<br>11/172014 POH wit 751 givs ork sing to 10,000. Attempt to set RTS too. Failed. Shut down due to ice accumulation on rig. Secure well & SDFN.<br>11/172014 POH wit RTS tool. UD packer. Packer had lost top nubber. The with to 8100°. Secure well & SDFN.<br>11/172014 Foliation in bola with to 1568 "TM. Check hading tably. Claws, Tag 8tb below Float colar & 30' below ahoe. Circulate hole claen @ 15.666" TM. RIC<br>pumping enginement. POH with & tabung Halv (RTS 106. Set Packer & Tg 8 Bb below Float colar & 30' below packer to 4000 psl. Lost 500 psi in 5<br>minutes. Test above packer to 4000 psl. Lost 300 psi in 5 minutes. Secure well & SDFN. Will Retest using pump truck this am. Pump trucks not<br>available for Wednessing. RILW RTTS tool. Set Packer @ 15.460". TkmU revense unit. Test below packer to 4000 psl. Lost 500 psi in 5<br>minutes. Test above packer to 4000 psl. Lost 300 psi in 5 minutes. Secure well & SDFN. Will Retest using pump truck this am. Pump trucks not<br>available for Wednessing. Bip 61 cst annuulus above packer are @ 15.460". TkmU revense unit. Test below packer to 4000 psl. Lost 500 psi. 5 min 4350                               | 11/14/2014 | ISIP 7121 psi. 5 min 3968 psi. 10 min 3968 psi. 15 min 3968 psi. R/D Pmp truck. Release RTTS tool @ 11,625'. POH w/ Packer. Secure well &   |
| <ul> <li>11/17/2014</li> <li>POH wY RTTS tool. LD packer. Packer had lost top nubber. THe with to 6100°. Secure well &amp; SDFN.</li> <li>11/18/2014</li> <li>Finish in hole with to 15.566 TM. Check tubing taby. Okay. Tag 88 below Float colar &amp; 39 below shoe. Circulate hole clean @ 15.566 TM. RD register with 8 bring. RH w/RTTS tool. Set Packer @ 15.460 TM. RD reverse unit. Test below packer to 4000 psi. Lost 500 psi in 5 min 4035 psi in 5 min 415 psi in 10 min 403 psi in 5 min 4035 psi in 5 min 415 psi in 10 min 403 psi in 5 min 4035 psi in 5 min 4035</li></ul>  | 11/15/2014 |   |
| <ul> <li>1/18/2014 Finish in hole with to 15,86° TM. Check tubing taby, Okay. Tap 88 below Float collar &amp; 39 below shoe. Circulate hole dean @ 15,56° TM. RU purport and the provide of the term of te</li></ul>                                     | 11/16/2014 | POH w/ 175 jts work string to 10,000'. Attempt to set RTTS tool. Failed. Shut down due to ice accumulation on rig. Secure well & SDFN.  |
| pumping equipment. POH w bits during. Securi veill & SDFN.           11/19/2014         Finish POH w bit & during. THIW xRTTS tool. Set Packer & 15.4607. Pump 11 bits total fluid @ 4.6 BM 7000 pail. SIP 4569 pail. S min 451 pail. 10 min 403 pail. S min 4058 pail. Test annual a above packer as @ 15.4607. Pump 11 bits total fluid @ 4.6 BM 7000 pail. SIP 4569 pail. S min 4058 pail. Test annual a above packer as @ 15.4607. Pump 11 bits total fluid @ 4.6 BM 7000 pail. SIP 4569 pail. S min 4058 pail. S min 4058 pail. Test annual a above packer as @ 15.4607. Pump 11 bits total fluid @ 4.6 BM 7000 pail. SiP 4569 pail. S min 4058 pail. Test annual a above packer as @ 15.4607. Pump 11 bits total min 4000 pail. SiP 4569 pail. S min 4058 pail. Test annual above packer as @ 15.4607. Pump 11 bits total minet:           11/2/2014         RIH w copene needed tubing to 11.609 ft. RUH allburton. Establish injection rate wiret @ 4.7 BPM @ 5000 pail. Mised Well Lock in batch miker:           11/2/2014         RIH wire open ended tubing to 11.609 ft. RUH allburton. Establish injection rate wiret @ 4.7 BPM @ 5000 pail. Mised Well Lock in batch miker:           11/2/2014         RIH wire open ended tubing to 11.600 ft. RUH allburton. Establish injection rate wiret @ 4.7 BPM @ 5000 pail. S min 4000 pail. D wiret @ 1.0 K min 4000 pail. S min 4000 pail. D wire  |            |   |
| <ul> <li>minutes. Test above packer to 4000 psi. Lost 350 psi in 5 minutes. Secure well &amp; SDFN. Will Retest using pump truck this am. Pump trucks not available for Wetnesday.</li> <li>If202014 RU pump truck. Test through tubing below packers set @ 15,460°. Pump 11 bibs total fluid @ 4.6 BPM 7000 psi. ISIP 46569 psi. 5 min 4035 psi. 15 min 4035 psi. 7 mJ Pump truck. Release packer &amp; PCH. LD 3.5 °Cr &amp; R RTIS packer. Secure Well &amp; SDFN.</li> <li>If220214 RIH vor composite pluid por 27/8* tubing. Set pluid @ 11.1563.°C Tap plug. Oxiv. Sleeve @ 11.4500°. PcH wis setting total. Secure Well &amp; SDFN.</li> <li>If222214 RIH vor composite pluid por 27/8* tubing. Set pluid @ 11.1563.°C Tap plug. Oxiv. Sleeve Well &amp; SDFN.</li> <li>If222214 Well Shut in tot H-Italibutorion. Well cock cure.</li> <li>If222214 Well Shut in tot H-Italibutorion Well Lock cure.</li> <li>If222214 Well Shut in tot H-Italibutorion Well Lock cure.</li> <li>If225214 G SS psi - 5300. EOT @ 10.1587.Pail 100k on tbg to pull free. RIH wifbg and tag at 10.190°. POH writbg, last 44 jts have welliock on outside of tbg. [last 44 jts have welliock on outside of tbg. [last 44 jts have welliock and soft Well Lock, pictures sent to Midland. Samples also taken on location. Secure Well. Strut down for Thankagiving.</li> <li>If226214 Tbg and cag psi = 0. Enrish POH wr66 jts 2-7/8° tbg. Lay down 40 jts, last 20 jts plugged, had Well Lock from 10.750 to 10.970. Pump 400 bbl to circ celan. POH well Cott, and soft Well Lock, from10.279 to 10.750. Drill out hard Well Lock from 10.750 to 10.970. Pump 400 bbl to bit ocir celan. POH well @ 10.283. Secure Well. SDFN.</li> <li>If220214 Tbg and cag psi = 0. Enrish POH wr66 jts 2-7/8° tbg. Lay down 40 jts. Jts 11.127. Secure Well SDFN.</li> <li>If220214 Stag and tbg psi - 0.580 pail secure Well. SDFN.</li> <li>If220214 Stag and tbg psi - 0.580 pail secure Well. SDFN.</li> <li>If</li></ul>   |            | pumping equipment. POH w/ 66 stds tubing. Secure well & SDFN.   |
| <ul> <li>min 4037 paj. 15 min 3968 påj. Test annulus above packer set @ 15,460°. Establish higection rate of 7 BPM @ 7000 paj. 51IP 6000 paj. 5 min 4038 etc.</li> <li>I1212014 RIH vi composite plug on 2-76° tubing. Set plug @ 11,38°. Tag plug. Okay. Steeve @ 11,590°. POH wisetting tool. Secure Vell &amp; SDFN.</li> <li>I1222014 RIH vi composite plug on 2-76° tubing. Set plug @ 11,38°. Tag plug. Okay. Steeve @ 11,590°. POH wisetting tool. Secure Vell &amp; SDFN.</li> <li>I1222014 RIH vi composite plug on 2-76° tubing. Set plug @ 11,38°. Tag plug. Okay. Steeve @ 11,590°. POH wisetting tool. Secure Vell &amp; SDFN.</li> <li>I1222014 Well Shut in to let Haliburton Well Lock cure.</li> <li>I12242014 Well Shut in to let Haliburton Well Lock cure.</li> <li>I12242014 Well Shut in to let Haliburton Well Lock cure.</li> <li>I12242014 Well Shut in to let Haliburton Well Lock cure.</li> <li>I12242014 Well Shut in to let Haliburton Well Lock cure.</li> <li>I12242014 Well Shut in to let Haliburton Well Lock cure.</li> <li>I12242014 Well Shut in to let Haliburton Well Lock cure.</li> <li>I12242014 Well Shut in to let Haliburton Well Lock cure.</li> <li>I12242014 Well Cock and soft Well Lock squeeze.</li> <li>I12242014 Tog and cag pai - 0. Finish POH wil6 js 2-7/8° tip, Lay down 40 jis, last 20 jis plugged. had Well Lock on outside of tbg. RIH wiPCD bit and 2-7/8° tbg. cag and two pai - 0. Replace stripper rubber. Drill out HES Well Lock from 10,279 to 10,750. Drill out hard Well Lock from 10,750 to 10,970. Pump 400 bit or cicaan. POH wiEO jis 3.8. Secure Well. SDFN.</li> <li>I1222014 Sut down for Thanksgiving.</li> <li>I12282014 Cag and tbg pai - 0. Replace stripper rubber. Drill out HES Well Lock from 10,279 to 10,750. Drill out hard Well Lock from 10,750 to 10,970. Pump 400 bit or cicaan. POH wiEO jis 3.8. Secure Well. SDFN.</li> <li>I12282014 Cag and tbg pai - 0. Replace stripper rubber. Drill out HES Well Lock from 10,279 to 10,750. Drill out hard Well Lock from 10,7</li></ul>   | 11/19/2014 | minutes. Test above packer to 4000 psi. Lost 350 psi in 5 minutes. Secure well & SDFN. Will Retest using pump truck this am. Pump trucks not  |
| <ul> <li>11722014</li> <li>FilH wr öpen ended tubing to 11,609 f. RU Hallburton. Establish hijection rate w/ water @ 4.7 BWd 5000 psi. Mixed Well Lock In batch mixer<br/>Spot 20 bits find across leak area. Pull to 10,158 f. Circ Mutual Sohven through tubing to clean out residue. Closed BOPE. Pressure up to 8500<br/>psi slowly pushing ± 12.25 bits well lock fluid out leak. Trap Pressure. RD Hallburton. Secure well &amp; SDFN.</li> <li>11722014</li> <li>Well Shut in to let Hallburton Well Lock cure.</li> <li>117252014</li> <li>CSC pai - 6300. EOT @ 10,168: Pull 100k on the to pull free. RH witbg and tag at 10,190. POH witbg, last 44 jis have wellick on outside of tbg,<br/>last 24 jis tbg plugged. Lay down last 24 jis. RH wit-56* bit and tbg to 9062. Start increasing points on weight Indicator. POH to 8900. Secure Well<br/>SDFN.</li> <li>11262014</li> <li>Tgg and csg pai - 0. Finish POH wit6 jis 2-7/8* tbg. Lay down 40 jis. last 20 jis plugged, had Well Lock no outside of tbg. RH w/PCD bit and 2-7/8*<br/>tbg, circ clean. Recovered hard Well Lock and soft Well Lock, pictures sent to Midland. Samples also taken on location. Secure Well. Shut down for<br/>Thankglying Holiday.</li> <li>11272014</li> <li>Stud down for Thanksgiving.</li> <li>11282014</li> <li>Csg and tbg pai - 0. Replace stipper rubber. Drill out HES Well Lock from 10,790 to 11,156. Pump 350 bit to circ clean. POH wEOT @ 10,338. Secure Well. SDFN.</li> <li>11282014</li> <li>Sig and tbg pai - 0. Replace stipper rubber. Drill out HES Well Lock from 10,970, to 11,156. Pump 350 bit to circ clean. POH wEOT @ 11,127.</li> <li>Secure Well. SDFN.</li> <li>11282014</li> <li>Sig and tbg pai - 0. Replace stipper rubber. Drill out HES Well Lock from 10,970, to 11,156. Pump 350 bit to circ clean. POH wEOT @ 11,127.</li> <li>Secure Well. SDFN.</li> <li>11292014</li> <li>Cudd pump tuck. All lines froze on service unit. Thaw out air lines. Est circ. Pressure uwell &amp; SDFN. Ordered back off writene tuck a large pum<br/>tuck for AM antival Monday 12/1/4.</li> <li>12172014</li> <li>SU Cudd pump tuck. NII</li></ul> | 1/20/2014  | min 4037 psi, 15 min 3968 psi. Test annulus above packer set @ 15,460'. Establish injection rate of 7 BPM @ 7000 psi. ISIP 6000 psi, 5 min 4036   |
| <ul> <li>Spot 20 bibs fluid across feak area. P/U to 10,185 ft. Circ Mutual Solvent through tubing To dean out residue. Closed BOPE. Pressure up to 8500 psi dowly pushing ± 12.25 bibs well lock fluid out leak. Trap Pressure. RD Hallburton. Secure well &amp; SDFN.</li> <li>11/24/2014 Vell Shut in to let Hallburton. Well Lock cure.</li> <li>11/24/2014 Service unit on standby waiting to drill out well lock squeeze.</li> <li>11/24/2014 Service unit on standby waiting to drill out well boy pull free. RIH whbg and tag at 10,190'. POH whbg, last 44 jis have welllock on outside of tbg, last 24 jis top pluged. Lay down last 24 jis. RIH wid-5/8° bit and top 0962'. Start increasing points on weight Indicator. POH to 8900'. Secure Well SDFN.</li> <li>11/28/2014 Tbg and csg pai- 0. Finish POH wr66 jis 2-7/8° tbg. Lay down 40 jis, last 20 jis plugged, had Well Lock on outside of tbg. RIH wirPCD bit and 2-7/8° tbg. cag down did took and soft Well Lock from 10,279 to 10,750. Drill out hard Well Lock from 10,750 to 10.970. Pump 400 bit to circ clean. POH wrEOT @10,393. Becure Well. SDFN.</li> <li>11/28/2014 Csg and tbg psi - 0. Replace stripper rubber. Drill out HES Well Lock from 10,970, to 11,158'. Pump 350 bit to circ csg. POH wrEOT @11,127'. Secure Well. SDFN.</li> <li>11/28/2014 SJC A SITP 0 pis. Drill out Well Lock squeeze from 11,158 ft to 11,210'. Started packing off. POH w/2 jis. Circulate 110 bits @ 1.5 BPM 3500 psi. Packed off w 4000 psi. LDB wwell. POH w/1 ji L Tubing stuck @ 11,127'. Secure Well &amp; SDFN. Ordered back off wreite truck &amp; large pum truck for AM arrival Monday 12/11/4.</li> <li>12/12/2014 RU Cudd pump truck. Air lines froze on service unit. Thaw out air lines. Est circ. Pressure up down tbg. PUI 120,000 on tbg and pressure up on tbg 10,550'. Free @ 10,830'. POH w/N L, RIH wdthg shot. Thraw out air lines. Est circ. Pressure up down sci. @ 11,050'. Oi 0,950'. 10,960'. 10,960'. do 90'. Jo 90'</li></ul>   | 11/21/2014 | RIH w/ composite plug on 2-7/8" tubing. Set plug @ 11,636'. Tag plug. Okay. Sleeve @ 11,590'. POH w/ setting tool. Secure Well & SDFN.  |
| <ul> <li>11/24/2014</li> <li>Service unit on standby walting to drill out well lock squeeze.</li> <li>11/25/2014</li> <li>CSG psi - 6300. ECT @ 10.165.".Pull 100k on tbg to pull free. RIH wid-56" bit and tbg to 9062". Start increasing points on weight indicator. POH to 8900". Secure Well SDFN.</li> <li>11/25/2014</li> <li>Dg and csg psi - 0. Finish POH wi66 [ts 2-7/8" tbg, Lay down 40 [ts, last 20 [ts plugged, had Well Lock on outside of tbg, RIH wi7-60 bit and 2-7/8" tbg, circ clean. Recovered hard Well Lock and soft Well Lock, pictures sent to Midland. Samples also taken on location. Secure Well. Shut down for Thanksgiving Holday.</li> <li>11/27/2014</li> <li>Shut down for Thanksgiving.</li> <li>11/27/2014</li> <li>Shut down for Thanksgiving.</li> <li>11/28/2014</li> <li>Csg and tbg psi - 0. Replace stipper rubber. Drill out HES Well Lock from 10,279 to 10.750. Drill out hard Well Lock from 10,750 to 10.970. Pump 400 bit to circ clean. POH wEOT @ 10.938. Secure Well. SDFN.</li> <li>11/28/2014</li> <li>Csg and tbg psi - 0. Replace stipper rubber. Drill out HES Well Lock from 10,770. to 11,158". Pump 350 bbl to circ cleag. POH wiEOT @ 11.127. Secure Well. SDFN.</li> <li>11/29/2014</li> <li>SICP &amp; SITP 0 psi. Drill out Well Lock squeeze from 11,158 ft to 11,210". Started packing off. POH wi 2 [ts. Circulate 110 bbls @ 1.6 BPM 3500 psi. Di and pressure well. SDFN.</li> <li>12/1/2014</li> <li>RU Cudd pump truck. Air lines froze on service unit. Thaw out air lines. Est circ. Pressure up down tbg. Pull 120.000 on tbg and pressure up on tbg to 550 psi. Did not free tbg. RD Cudd pump truck. Ru Polt wift is: Intern 400 bit FW @ 10.046; psi. Did in ot free tbg. RD Cudd. PUM will. SDFN.</li> <li>12/1/2014</li> <li>RU Cudd pump truck. Juli and the VML. RH whill, sting aton: Torque tbg (th ng) the spin to clean csg. RD Cudd. POH wigg (th 0,967, 0.900° and th 0,865. Thish POH will. SDFN.</li> <li>12/2/2014</li> <li>Csg and tbg psi - 0.1 rish POH will. RH will, sting aton: Torque tbg (th ng) the not free. Sg. RD Cudd. POH wi</li></ul>                                 | 11/22/2014 | Spot 20 bbls fluid across leak area. P/U to 10,185 ft. Circ Mutual Solvent through tubing to clean out residue. Closed BOPE. Pressure up to 8500  |
| <ul> <li>1125/2014 CSG psi - 6300. EOT @ 10, 85'.Puil 100k on tbg to pull free. RIH w/tbg and tag at 10, 190'. POH w/tbg, last 44 jts have welliock on outside of tbg, last 24 jts tbg plugged. Lay down last 24 jts. RIH w/4-5/8' bit and tbg to 9062'. Start increasing points on weight indicator. POH to 5900'. Secure Well SDFN.</li> <li>1126/2014 Tbg and csg psi - 0. Finish POH w/66 jts 2-7/8' tbg. Lay down 40 jts, last 20 jts plugged, had Well Lock on outside of tbg. RIH w/PCD bit and 2-7/8'' tbg, circ clean. Recovered hard Well Lock and soft Well Lock, pictures and to Midland. Samples also taken on location. Secure Well. Subt down for Thanksgiving.</li> <li>1127/2014 Stut down for Thanksgiving.</li> <li>1128/2014 Csg and tbg psi - 0. Replace stripper rubber. Drill out HES Well Lock from10,279 to 10,750. Drill out hard Well Lock from 10,750 to 10,970. Pump 400 bbl to circ clean. POH w/EOT @110,938. Secure Well. SDFN.</li> <li>1128/2016 S SITP OpSi. Drill out Well Lock squeeze from 11,156 ft to 11,210'. Started packing off. POH w/ 2 jts. Circulate 110 bbls @ 1.5 BPM 3500 psi. Packed off w/ 4000 pai. L/D avival. POH w/ 1 jt. Tubing stuck @ 11,127'. Secure well &amp; SDFN. Ordered back off wireline truck &amp; large pum truck. RU Cudd pump truck. RU Rudary Wire Line. RIH and free point tbg. Tbg 1000 on tbg and pressure up on tbg to 7500 psi. Did nut Well. RU Cudd pump truck. RU Rudary Wire Line. RIH and free point tog. Tog 100's stuck @ 11,020', 10,950' and 10,855'. Free @ 10,830'. CPH w/W. RIH w/W. RIH w/W. RU RU Cudd pump truck. RU Rudary Wire Line. RIH and free point to clean. Secure Well. SDFN.</li> <li>12/1/2014 RU Cudd pump truck. RU Rudary Wire Line. RIH and free point to dis. Torgute bg for 5, tog B dis 0, 500'. CH w/W. RIH w</li></ul>                             | 11/23/2014 | Well Shut in to let Halliburton Well Lock cure.   |
| <ul> <li>Iast 24 jis top plugged. Lay down last 24 jis. RIH iwl-5/8" bit and tbg to 9062'. Start increasing points on weight indicator. POH to 8900'. Secure Weil SDFN.</li> <li>Top and csg pai - 0. Finish POH w/86 jis 2-7/8" tbg. Lay down 40 jis. Iast 20 jis plugged, had Weil Lock on outside of tbg. RIH w/PCD bit and 2-7/8" tbg. Cric clean. Recovered hard Weil Lock and soft Weil Lock, pictures sent to Midland. Samples also taken on location. Secure Weil. Shut down for Thanksgiving Holiday.</li> <li>Ti1/27/2014 Shut down for Thanksgiving.</li> <li>Ti1/27/2014 Shut down for Thanksgiving.</li> <li>Ti1/28/2014 Csg and tbg si - 0. Replace stripper rubber. Drill out HES Weil Lock from 10,279 to 10,750. Drill out hard Weil Lock from 10,750 to 10,970. Pump 400 bbl to circ clean. POH w/EOT @110,938. Secure Weil. SDFN.</li> <li>Ti29/2014 Csg and tbg si - 0. Replace stripper rubber. Drill out HES Weil Lock from 10,970, to 11,156'. Pump 350 bbl to circ csg. POH w/EOT @11,127'. Secure Weil. SDFN.</li> <li>Ti302/2014 SICP &amp; SITP 0 psi. Drill out Weil Lock squeeze from 11,158 ft to 11,210'. Started packing off. POH w/ 2 jis. Circulate 110 bbls @1.5 BPM 3500 psi. Packed of w/ 4000 pai. LD swivel. POH w/ 1 1. Tubing stuck @11,127'. Secure well &amp; SDFN. Crieculate 410 bbls @1.5 BPM 3500 psi. Dek weight. Dol w/W. Rill w/W.M. Rill w/W.M. King shot. Torque tbg to the right 10 rds. Torque bg for 5,000 on tbg. 70,000 on tbg and pressure up on tbg to 7500 psi. Did not free tbg. RD Cudd pump truck. RU Rotary Wire Line. RIH and free point tbg. Tog 100% stuck @11,050', 10,900' and 10,855'. Free @1.0830'. POH w/W. Rill w/W.M. RII w/W.M. RU Cudd pump truck. Pump 400 bbl FW @ 6 bpm to clean csg. RD Cudd. POH laying down tods. RD Rotary W.L. RU Cudd pump truck. Pump 400 bbl FW @ 6 bpm to clean csg. RD Cudd. POH laying down tods. RD Rotary W.L. RU Cudd pump truck. Pump 400 bbl PW @ 6 bpm to clean csg. RD Cudd. POH laying down tods. RD Rotary W.L. RU Cudd pump truck. Pump 400 bbl FW @ 6 bpm to clean csg. RD Cudd. POH</li></ul>   |            |   |
| <ul> <li>tbg, circ clear. Recovered hard Well Lock and soft Well Lock, pictures sent to Midland. Samples also taken on location. Secure Well. Shut down for Thanksgiving Holday.</li> <li>11/27/2014 Shut down for Thanksgiving.</li> <li>11/28/2014 Csg and tbg psi-0. Replace stripper rubber. Drill out HES Well Lock from 10,750. Drill out hard Well Lock from 10,750 to 10,970. Pump 400 bbl to circ clean. POH wECOT @11,938. Secure Well. SDFN.</li> <li>11/28/2014 Csg and tbg psi-0. Replace stripper rubber. Drill out HES Well Lock from 10,970. to 11,156'. Pump 350 bbl to circ csg. POH wEOT @11,127'. Secure Well. SDFN.</li> <li>11/29/2014 SICP &amp; SITP O psi. Drill out Well Lock squeeze from 11,158 ft to 11,210'. Started packing off. POH w/ 2 jts. Circulate 110 bbls @ 1.5 BPM 3500 psi. Packed off w/ 4000 psi. LD swivel. POH w/ 1 jt. Tubing stuck @11,127'. Secure well &amp; SDFN. Ordered back off wireline truck &amp; large pum truck for AM arrival Monday 12/1/4.</li> <li>12/1/2014 RU Cudd pump truck. Arl lines froze on service unit. Thaw out air lines. Est circ. Pressure up down tbg. Pull 120,000 on tbg and pressure up on tbg to 500 psi. JD. Swivel. POH w/WL. Exing shot. Torque tbg to the right 10 rd. Torque tbg 4 rds, to the left. Back off tbg @ 10,502'. Ck tbg weight. POH w/ML ksing down tools. RD Rotary WL. RU Cudd pump truck. Pump 400 bbl FW @ 6 bpm to clean csg. RD Cudd. POH laying down 7 its 2-7/8' PH-6 tbg. Secure well. SDFN.</li> <li>12/2/2014 Csg and tbg psi-0. Finish POH w/2-7/8'' PH-6 tbg. RIH w/screw in sub. 3-3/4' bumper sub, jars, 6 - 3-1/2'' dc's, 2-7/8'' PH-6 tbg. RIH and tag tbg @ 10.785'. The dbg psi-0. Finish POH w/2-7/8'' PH-6 tbg. Ord and RD Rotary WL. POH w/2-7/8'''s tbg. RIW will wHA. SDON.</li> <li>12/2/2014 Csg and tbg psi-0. Finish POH w/2-7/8'' PH-6 tbg. RIH and tsol out 3000 ob jsi when tbg rotary WL. RIW will and to also dot gb 0.500 bsi. No roce all Midland Office. Decision made to back off tbg. Torray WL. RIH w/strip shot to 15. Jar and beat down on bg for 3.5 hrs to try and move stuck tbg. No movemen</li></ul>                         | 1/25/2014  | last 24 jts tbg plugged. Lay down last 24 jts. RIH w/4-5/8" bit and tbg to 9062'. Start increasing points on weight indicator. POH to 8900'. Secure Wel   |
| <ul> <li>11/28/2014 Csg and tbg psi - 0. Replace stripper rubber. Drill out HES Well Lock from 10,750 to 10,750. Drill out hard Well Lock from 10,750 to 10,970. Pump 400 bbl to circ clean. POH w/EOT @11,938. Secure Well. SDFN.</li> <li>11/29/2014 Csg and tbg psi - 0. Replace stripper rubber. Drill out HES Well Lock from 10,970, to 11,158'. Pump 350 bbl to circ csg. POH w/EOT @11,127'. Secure Well. SDFN.</li> <li>11/30/2014 SICP &amp; SITP 0 psi. Drill out Well Lock squeeze from 11,158 ft to 11,210'. Started packing off. POH w/ 2 its. Circulate 110 bbls @ 1.5 BPM 3500 psi. Packed off w 4000 psi. LD oswivel. POH w/ 1 it. Tubing stuck @ 11,127'. Secure well &amp; SDFN. Ordered back off wireline truck &amp; large pump truck for AM arrival Monday 12/1/14.</li> <li>12/1/2014 RU Cudd pump truck. Air lines forze on service unit. Thaw out air lines. Est circ. Pressure up down tbg, Pull 120,000 on tbg and pressure up on tbg to 5000 psi. Did not free tbg. RD Cudd pump truck. RN Cudd pump truck. Pump 400 bbl FW @ 6 bpm to clean csg. RD Cudd. POH w/01, 1570 psi. Did not free tbg. RD Cudd pump truck. RU Cudd pump truck. Pump 400 bbl FW @ 6 bpm to clean csg. RD Cudd. POH laying down 7 is 2-7/8" PH-6 tbg. Secure well. SDFN.</li> <li>12/2/2014 Csg and tbg psi - 0. Finish POH wi/2-7/8" PH-6 tbg. RIH wiscrew in sub, 3-3/4" bumper sub, jars, 6 - 3-1/2" dc's, 2-7/8" PH-6 tbg. RIH and tag tbg @ 10,499'. Screw in to fsh. Jar and beat down on tbg for 3.5 hrs to try and move stuck tbg. No movement up or down. Secure Well. SDFN.</li> <li>12/2/2014 Csg and tbg psi - 0. Fini wire and beat down on tbg for 3.5 hrs to try and move stuck tbg. No move ment up or down. Secure Well. SDFN.</li> <li>12/2/2014 Csg and tbg psi - 0. Fini wire and beat down on tbg for 3.5 hrs to try and move stuck tbg. No movement up or down. Secure Well. SDFN.</li> <li>12/2/2014 Csg and tbg psi - 0. Fini wire and beat down on tbg for 3.5 hrs to try and move stuck tbg. No move ment up or down. Secure Well. SDFN.</li> <li>12/2/2014 Csg and tbg psi - 0. Fini wire and beat down on t</li></ul>                         | 11/26/2014 | tbg, circ clean. Recovered hard Well Lock and soft Well Lock, pictures sent to Midland. Samples also taken on location. Secure Well. Shut down for  |
| <ul> <li>400 bbl to circ clean. POH w/EOT @10,938. Secure Well. SDFN.</li> <li>11/29/2014 Csg and tbg psi - 0. Replace stripper rubber. Drill out HES Well Lock from10,970, to 11,158'. Pump 350 bbl to circ csg. POH w/EOT @11,127'. Secure Well. SDFN.</li> <li>11/30/2014 SICP &amp; SITP 0 psi. Drill out Well Lock squeeze from 11,158 ft to 11,210'. Started packing off. POH w/ 2 jts. Circulate 110 bbls @ 1.5 BPM 3500 psi. Packed off wi 4000 psi. LD swivel. POH w/ 1 jt. Tubing stuck @ 11,127'. Secure well &amp; SDFN. Ordered back off wireline truck &amp; large pump truck. Air lines froze on service unit. Thaw out air lines. Est circ. Pressure up down tbg. Pull 120,000 on tbg and pressure up on tbg to 7500 psi. Did not free tbg. RD Cudd pump truck. RI Rotary Wire Line. RIH and free point tbg. Tbg 100% stuck @ 11,050'. 10,950'. 10,900' and 10,855'. Free @ 10,830'. POH w/ML, RIH w/ML string shot. Torque tbg to the right 10 rds. Torque tbg 6 rds, to the left. Back off tbg @ 10,502'. Ck tbg weight. POH w/WL laying down tools. RD Rotary WL. RU Cudd pump truck. Pump 400 bbl FW @ 6 bpm to clean csg. RD Cudd. POH laying down 7 jts 2-7/8" PH-6 tbg. Secure well. SDFN.</li> <li>12/2/2014 Csg and tbg psi - 0. Finish POH w/2-7/8" PH-6 tbg. RIH w/screw in sub, 3-3/4" bumper sub, jars, 6 - 3-1/2" dc's, 2-7/8" PH-6 tbg. RIH and tag tbg @ 10,745'. DeH and move stuck tbg. No movement up or down. Secure Well. SDFN.</li> <li>12/3/2014 Csg and tbg psi - 0. Fini w2-7/8" tbg to 10,745'. Displace csg w/275 bbl 10# brine. RIH to 10,785'. Screw on to fish. Jar and beat down on tbg for 3.5 hrs to ty and move stuck tbg. No movement up or down. Secure Well. SDFN.</li> <li>12/3/2014 Csg and tbg psi - 0. Fini w2-7/8" tbg to 10,745'. Displace csg w/275 bbl 10# brine. RIH to 10,785'. Screw on to fish. Jar tbg. Move tbg up 10' and beat down 30'. RU power swivel. Swiel would stall out at 3000 psi when tbg rotated. Could not pump down tbg. Pressure up to 6500 psi. RD Swiel. Continue to jar on tbg for 2 hrs. Secure weell. SDFN.</li> <li>12/3/2014 Csg and tbg psi - 0</li></ul>                         | 11/27/2014 | Shut down for Thanksgiving.   |
| <ul> <li>Sečure Well, SDFN.</li> <li>11/30/2014 SICP &amp; SITP 0 psi. Drill out Well Lock squeeze from 11,158 ft to 11,210'. Started packing off. POH w/ 2 jts. Circulate 110 bbls @ 1.5 BPM 3500 psi. Packed off w/ 4000 psi. L/D swivel. POH w/ 1 jt. Tubing stuck @ 11,127'. Secure well &amp; SDFN. Ordered back off wireline truck &amp; large pump truck for AM arrival Monday 12/1/14.</li> <li>12/1/2014 RU Cudd pump truck. Air lines froze on service unit. Thaw out air lines. Est circ. Pressure up down tbg. Pull 120,000 on tbg and pressure up on tbg to 7500 psi. Did not free tbg. RD Cudd pump truck. RU Rotary Wire Line. RIH and free point tbg. Tbg 100% stuck @ 11,050'. 10,950', 10,900' and 10,855'. Free @ 10,830'. POH w/WL. RIH w/WL string shot. Torque tbg to the right 10 rds. Torque tbg 6 rds, to the left. Back off tbg @ 10,502'. Ck tbg weight. POH w/WL lay down tob. RD Rotary WL. RU Cudd pump truck. Pump 400 bbl FW @ 6 bpm to clean csg. RD Cudd. POH laying down 7 jts 2-7/8' PH-6 tbg. Secure well. SDFN.</li> <li>12/2/2014 Csg and tbg psi - 0. Finish POH w/2-7/8' PH-6 tbg. RIH w/screw in sub, 3-3/4'' bumper sub, jars, 6 - 3-1/2'' dc's, 2-7/8'' PH-6 tbg. RIH and tag tbg @ 10,499'. Screw in to fish. Jar and beat down on tbg for 3.5 hrs to try and move stuck tbg. No overement up or down. Secure Well. SDFN.</li> <li>12/2/2014 Csg and tbg psi - 0. Jar on tbg for 2 hrs. No Movement. Pressure up on tbg to 6000 psi. No circ. Call Midland Office. Decision made to back off tbg. RU rotary WL. RIH w/string shot and back off tbg @ 10.785'. POH and RD Rotary WL. POH w/2-7/8'' tbg. RIH w/BA. SDDN.</li> <li>12/2/2014 Csg and tbg psi - 0. Jar on tbg for 2 hrs. Secure well. SDFN.</li> <li>12/5/2014 Csg and tbg psi - 0. FIH w/2-7/8'' tbg to 10,748'. Displace esg w/275 bbl 10# brine. RIH to 10,765'. Screw on to fish. Jar tbg. Move tbg up 10' and beat down 30''. RU power swivel. Swive would stall out at 3000 psi when tbg rotated. Could not pump down tbg. Pressure up to 6500 psi. RD Swivel. Continue to jar on tbg for 2 hrs</li></ul>   | 11/28/2014 |   |
| <ul> <li>psi. Packed off w/ 4000 psi. LD swivel. POH w/ 1 j t. Tubing stuck @ 11,127'. Secure well &amp; SDFN. Ordered back off wireline truck &amp; large pump truck for AM arrival Monday 12/1/14.</li> <li>12/1/2014 Rt Ucudd pump truck. All lines froze on service unit. Thaw out air lines. Est circ. Pressure up down tbg. Pull 120,000 on tbg and pressure up on tbg to 7500 psi. Did not free tbg. RD Cudd pump truck. RU Rotary Wire Line. RH and free point tbg. Tbg 100% stuck @ 11,050', 10,950', 10,900' and 10,855'. Free @ 10,830'. POH w/WL. RIH w/WL. RU Cudd pump truck. Pump 400 bbl FW @ 6 bpm to clean csg. RD Cudd. POH laying down tools. RD Rotary WL. RU Cudd pump truck. Pump 400 bbl FW @ 6 bpm to clean csg. RD Cudd. POH laying down tools. The secure well. SDFN.</li> <li>12/2/2014 Csg and tbg psi - 0. Finish POH w/2-7/8' PH-6 tbg. RIH w/screw in sub, 3-3/4" bumper sub, jars, 6 - 3-1/2" dc's, 2-7/8" PH-6 tbg. RIH and tag tbg @ 10,499'. Screw in to fish. Jar and beat down on tbg for 3.5 hrs to try and move stuck tbg. No movement up or down. Secure Well. SDFN.</li> <li>12/3/2014 Csg and tbg psi - 0. Jar on tbg for 2 hrs. No Movement. Pressure up on tbg to 6000 psi. No circ. Call Midland Office. Decision made to back off tbg @ 10,748'. Displace csg w/275 bbl 10# brine. RIH to 10,785'. Screw on to fish. Jar tbg. Move tbg up 10' and beat down 30'. RU power swivel. Swivel would stall out at 3000 psi when tbg rotated. Could not pump down tbg. Pressure up to 6500 psi. RD Swivel. Continue to jar on tig for 2 hrs. Secure well. SDFN.</li> <li>12/5/2014 Csg and tbg psi - 0. RIH w/2-f/8'' tbg the 20 fr. RU Rotary WL. RIH w/free point to 10,600'. POH w/WL and tools. Found HES well lock off baecond time without strip shot. Back off bag 010,815'. POH and Rotary WL. POH w/WL and tools. RIH w/Strip shot to 11,004'. Back off failed. Back off second time without strip shot. Back off bag 010,815'. POH R Rotary WL. POH w/bg and BHA. Secure well. SDFN.</li> <li>12/6/2014 Scg and tbg psi - 0. RIH w/screw in sub, 2-7/8" PH-6 tbg. Screw in tbg at 10</li></ul>                             | 11/29/2014 |   |
| <ul> <li>to 7500 pś. Dia not free tbg. RD Cudd pump truck. RU Rotary Wire Line. RIH and free point tbg. Tbg 100% stuck @ 11,050°, 10,950°, 10,90° and 10,855°. Free @ 10,830°. POH w/VL. RIH w/WL string shot. Torque tbg to the right 10 ds. Torque tbg 6 rds, to the left. Back off tbg (0,502°. Ck tbg weight. POH w/VL. laying down tools. RD Rotary WL. RU Cudd pump truck. Pump 400 bbl FW @ 6 bpm to clean csg. RD Cudd. POH laying down 7 jts 2-7/8° PH-6 tbg. Secure well. SDFN.</li> <li>12/2/2014 Csg and tbg psi - 0. Finish POH w/2-7/8° PH-6 tbg. RIH w/screw in sub, 3-3/4° bumper sub, jars, 6 - 3-1/2° dc's, 2-7/8° PH-6 tbg. RIH and tag tbg @ 10,499'. Screw in to fish. Jar and beat down on tbg for 3.5 hrs to try and move stuck tbg. No movement up or down. Secure Well. SDFN.</li> <li>12/3/2014 Csg and tbg psi - 0. Jar on tbg for 2 hrs. No Movement. Pressure up on tbg to 6000 psi. No circ. Call Midland Office. Decision made to back off tbg. RU rotary WL. RIH w/string shot and back off tbg @ 10.785'. POH and RD Rotary WL. POH w/2-7/8° tbg. RIH w/BHA. SDON.</li> <li>12/4/2014 Csg and tbg psi - 0. Jar on tbg for 2 hrs. Secure well. SDFN.</li> <li>12/4/2014 Csg and tbg psi - 0. FIH w/2-7/8° tbg to 10,748'. Displace csg w/275 bbl 10# brine. RIH to 10,785'. Screw on to fish. Jar tbg. Move tbg up 10' and beat down 30'. RU power swivel. Swivel would stall out at 3000 psi when tbg rotated. Could not pump down tbg. Pressure up to 6500 psi. RD Swivel. Continue to jar on tbg for 2 hrs. Secure well. SDFN.</li> <li>12/5/2014 Csg and tbg psi - 0. Jar on fish for 1 hr. Call Midland Office. RU Rotary WL. RIH w/free point to 10,600'. POH w/WL and tools. Found HES well lock on howe springs. RIH w/2nd free point tool. Tbg free @ 11,004 and stuck @ 11,036'. POH w/ML and tools. RIH w/strip shot. Found HES well lock off failed. Back off tbg @ 10,815'. POH Rd Rotary WL. POH w/bg and BHA. Secure well. SDFN.</li> <li>12/5/2014 Csg and tbg psi - 0. RIH w/screw in sub, 2-7/8" PH-6 tbg. Screw in tbg at 10,815'. RU Vibration equipment. Vibtrate tbg for</li></ul>                                     | 11/30/2014 | psi. Packed off w/ 4000 psi. L/D swivel. POH w/ 1 j t. Tubing stuck @ 11,127'. Secure well & SDFN. Ordered back off wireline truck & large pump   |
| <ul> <li>@10,499'. Screw in to fish. Jar and beat down on tbg for 3.5 hrs to try and move stuck tbg. No movement up or down. Secure Well. SDFN.</li> <li>12/3/2014</li> <li>Csg and tbg psi - 0. Jar on tbg for 2 hrs. No Movement. Pressure up on tbg to 6000 psi. No circ. Call Midland Office. Decision made to back off tbg. RU rotary WL. RIH w/string shot and back off tbg @ 10,785'. POH and RD Rotary WL. POH w/2-7/8" tbg. RIH w/BHA. SDON.</li> <li>12/4/2014</li> <li>Csg and tbg psi - 0. FIH w/2-7/8" tbg to 10,748'. Displace csg w/275 bbl 10# brine. RIH to 10,785'. Screw on to fish. Jar tbg. Move tbg up 10' and beat down 30'. RU power swivel. Swivel would stall out at 3000 psi when tbg rotated. Could not pump down tbg. Pressure up to 6500 psi. RD Swivel. Continue to jar on tbg for 2 hrs. Secure well. SDFN.</li> <li>12/5/2014</li> <li>Csg and tbg psi - 0. Jar on fish for 1 hr. Call Midland Office. RU Rotary WL. RIH w/free point to 10,600'. POH w/WL and tools. Found HES well lock on bowe springs. RIH w/2nd free point tool. Tbg free @ 11,004 and stuck @ 11,036'. POH w/WL and tools. RIH w/strip shot to 11,004'. Back off failed. Back off second time without strip shot. Back off high. Screw back in tbg. RIH w/strip shot. Collar locator failed. POH to repair collar locator. RIH w/strip shot. Back off tbg @ 10,815'. POH R Rotary WL. POH w/LB at 10,815'. RU Vibration equipment. Vibtrate tbg for 4 hrs. POH w/2 its tbg. ND vibration equipment. POH w.4 its tbg. Tbg hung up. RU power swivel. POH w/4 its tbg while using power swivel. ND Power swivel. TBG FREE. POH w/EOT at 10,000'. Secure well. SD for Sunday.</li> <li>12/7/2014</li> <li>Shut down for Sunday. Tubing was freed over the weekend.</li> <li>12/8/2014</li> <li>POH w/tbg and tools. RIH w/4-5/8" blade bit, 2-7/8" Ph-6 tbg to 10,750'. Circ csg clean. Rotate down and bit would plug off and loose circ. Pump sweep and circ csg. Found small slivers of csg in returns. Lay down swivel. POH w/EOT at 9,997'. Test csg to 4966 psi.ISIP - 49</li></ul>   | 12/1/2014  | to 7500 psi. Did not free tbg. RD Cudd pump truck. RU Rotary Wire Line. RIH and free point tbg. Tbg 100% stuck @ 11,050', 10,950', 10,900' and 10,855'. Free @ 10,830'. POH w/WL. RIH w/WL string shot. Torque tbg to the right 10 rds. Torque tbg 6 rds, to the left. Back off tbg @ 10,502'. Ck tbg weight. POH w/WL laying down tools. RD Rotary WL. RU Cudd pump truck. Pump 400 bbl FW @ 6 bpm to clean csg. RD Cudd. POH laying |
| RU rotary WL. RIH w/string shot and back off tbg @ 10.785'. POH and RD Rotary WL. POH w/2-7/8" tbg. RIH w/BHA. SDON.         12/4/2014       Csg and tbg psi - 0. Fil w/2-7/8" tbg to 10.748'. Displace csg w/275 bbl 10# brine. RIH to 10.785'. Screw on to fish. Jar tbg. Move tbg up 10' and beat down 30'. RU power swivel. Swivel would stall out at 3000 psi when tbg rotated. Could not pump down tbg. Pressure up to 6500 psi. RD         swivel. Continue to jar on tbg for 2 hrs. Secure well. SDFN.         12/5/2014       Csg and tbg psi - 0. Jar on fish for 1 hr. Call Midland Office. RU Rotary WL. RIH w/free point to 10,600'. POH w/WL and tools. Found HES well lock on bowe springs. RIH w/2nd free point tool. Tbg free @ 11,004 and stuck @ 11,036'. POH w/WL and tools. RIH w/strip shot to 11,004'. Back off failed. Back off second time without strip shot. Back off high. Screw back in tbg. RIH w/stip shot. Calar locator failed. POH to repair collar locator. RIH w/strip shot. Back off tbg @ 10,815'. POH Rd Rotary WL. POH w/bg and BHA. Secure well. SDFN.         12/6/2014       Csg and tbg psi - 0. RIH w/screw in sub, 2-7/8" PH-6 tbg. Screw in tbg at 10,815'. RU Vibration equipment. Vibtrate tbg for 4 hrs. POH w/2 its tbg, ND vibration equipment. POH w.4 its tbg. Tbg hung up. RU power swivel. POH w/4 its tbg while using power swivel. ND Power swivel. TBG FREE. POH w/EOT at 10,000'. Secure well. SD for Sunday.         12/7/2014       POH w/tbg and tools. RIH w/4-5/8' blade bit, 2-7/8" PH-6 tbg to 10,750'. Circ csg clean. Rotate down and bit would plug off and loose circ. Pump sweep and circ csg. Found small slivers of csg in returns. Lay down swivel. POH w/EOT at 9,997'. Test csg to 4966 psi.ISIP - 4950. 5 min - 4541. 10 min - 4303. 15 min - 4014. Secure well. SD FN.         12/9/2014       Finsh PO   | 12/2/2014  |   |
| <ul> <li>beat down 30'. RU power swivel. Swivel would stall out at 3000 psi when tbg rotated. Could not pump down tbg. Pressure up to 6500 psi. RD Swivel. Continue to jar on tbg for 2 hrs. Secure well. SDFN.</li> <li>12/5/2014 Csg and tbg psi - 0. Jar on fish for 1 hr. Call Midland Office. RU Rotary WL. RIH w/free point to 10,600'. POH w/WL and tools. Found HES well lock on bowe springs. RIH w/2nd free point tool. Tbg free @ 11,004 and stuck @ 11,036'. POH w/WL and tools. RIH w/strip shot to 11,004'. Back off failed. Back off second time without strip shot. Back off high. Screw back in tbg. RIH w/stip shot. Collar locator failed. POH to repair collar locator. RIH w/strip shot. Back off tbg @10,815'. POH Rd Rotary WL. POH w/tbg and BHA. Secure well. SDFN.</li> <li>12/6/2014 Csg and tbg psi - 0. RIH wizerew in sub, 2-7/8" PH-6 tbg. Screw in tbg at 10,815'. RU Vibration equipment. Vibtrate tbg for 4 hrs. POH w/2 its tbg, ND vibration equipment. POH w.4 its tbg. Tbg hung up. RU power swivel. POH w/4 its tbg while using power swivel. ND Power swivel. TBG FREE. POH w/EOT at 10,000'. Secure well. SD for Sunday.</li> <li>12/7/2014 Shut down for Sunday. Tubing was freed over the weekend.</li> <li>12/8/2014 POH w/tbg and tools. RIH w/4-5/8" blade bit, 2-7/8" Ph-6 tbg to 10,750'. Circ csg clean. Rotate down and bit would plug off and loose circ. Pump sweep and circ csg. Found small slivers of csg in returns. Lay down swivel. POH w/EOT at 9,997'. Test csg to 4966 psi.ISIP - 4950. 5 min - 4541. 10 min - 4303. 15 min - 4014. Secure well. SD fN.</li> <li>12/9/2014 Flinis POH w/tbg. Replace blade bit w/mill tooth bit. RIH w/bit and tbg to 10,750'. RU swivel. Clean out to 10,813'. Circ 400 bbl. Clean out to 10,818 Blow out stripper rubber. Close BOP. Circ clean. Lay down swivel. POH w/EOT @10,280'. Secure well. SDFN.</li> <li>12/10/2014 RIH w/18 jts tbg. Change out stripper rubber. RU swivel and 3" return line. Clean out from 10,812' to 11,200'. Tag HES well lock. Drill for 1 hr and</li> </ul>  | 12/3/2014  |   |
| on bowe springs. RIH w/2nd free point tool. Tbg free @ 11,004 and stuck @ 11,036'. POH w/WL and tools. RIH w/strip shot to 11,004'. Back off<br>failed. Back off second time without strip shot. Back off high. Screw back in tbg. RIH w/strip shot. Collar locator failed. POH to repair collar locator.<br>RIH w/strip shot. Back off tbg @10,815'. POH RI Rotary WL. POH w/tbg and BHA. Secure well. SDFN.           12/6/2014         Csg and tbg psi - 0. RIH w/screw in sub, 2-7/8" PH-6 tbg. Screw in tbg at 10,815'. RU Vibration equipment. Vibtrate tbg for 4 hrs. POH w/2 jts tbg,<br>ND vibration equipment. POH w.4 jts tbg. Tbg hung up. RU power swivel. POH w/4 jts tbg while using power swivel. ND Power swivel. TBG FREE.<br>POH w/EOT at 10,000'. Secure well. SD for Sunday.           12/7/2014         Shut down for Sunday. Tubing was freed over the weekend.           12/8/2014         POH w/tbg and tolos. RIH w/4-5/8" blade bit, 2-7/8" Ph-6 tbg to 10,750'. Circ csg clean. Rotate down and bit would plug off and loose circ. Pump<br>sweep and circ csg. Found small slivers of csg in returns. Lay down swivel. POH w/EOT at 9,997'. Test csg to 4966 psi.ISIP - 4950. 5<br>min - 4541, 10 min - 4303, 15 min - 4014. Secure well. SDFN.           12/8/2014         Finish POH w/tbg. Replace blade bit w/mill tooth bit. RIH w/bit and tbg to 10,750'. RU swivel. Clean out to 10,813'. Circ 400 bbl. Clean out to 10,818<br>Blow out stripper rubber. Close BOP. Circ clean. Lay down swivel. POH w/EOT @10,280'. Secure well. SDFN.           12/10/2014         RIH w/18 jts tbg. Change out stripper rubber. RU swivel and 3" return line. Clean out from 10,812' to 11,200'. Tag HES well lock. Drill for 1 h rand   | 12/4/2014  | beat down 30'. RU power swivel. Swivel would stall out at 3000 psi when tbg rotated. Could not pump down tbg. Pressure up to 6500 psi. RD<br>Swivel, Continue to jar on tbg for 2 hrs. Secure well. SDFN.   |
| ND vibration equipment. POH w.4 jts tbg. Tbg hung up. RU power swivel. POH w/4 jts tbg while using power swivel. ND Power swivel. TBG FREE.<br>POH w/EOT at 10,000'. Secure well. SD for Sunday.           12/7/2014         Shut down for Sunday. Tubing was freed over the weekend.           12/8/2014         POH w/tbg and tools. RIH w/4-5/8' blade bit, 2-7/8'' Ph-6 tbg to 10,750'. Circ csg clean. Rotate down and bit would plug off and loose circ. Pump<br>sweep and circ csg. Found small slivers of csg in returns. Lay down swivel. POH w/EOT at 9,997'. Test csg to 4966 psi.ISIP - 4950. 5<br>min - 4541. 10 min - 4303. 15 min - 4014. Secure well. SDFN.           12/9/2014         Finish POH w/tbg. Replace blade bit w/mill tooth bit. RIH w/bit and tbg to 10,750'. RU swivel. Clean out to 10,813'. Circ 400 bbl. Clean out to 10,818<br>Blow out stripper rubber. Close BOP. Circ clean. Lay down swivel. POH w/EOT @10,280'. Secure well. SDFN.           12/10/2014         RIH w/18 jts tbg. Change out stripper rubber. RU swivel and 3'' return line. Clean out from 10,812' to 11,200'. Tag HES well lock. Drill for 1 hr and  |            | on bowe springs. RIH w/2nd free point tool. Tbg free @ 11,004 and stuck @ 11,036'. POH w/WL and tools. RIH w/strip shot to 11,004'. Back off failed. Back off second time without strip shot. Back off high. Screw back in tbg. RIH w/strip shot. Collar locator failed. POH to repair collar locator. RIH w/strip shot, Back off tbg @10,815'. POH Rd Rotary WL. POH w/tbg and BHA. Secure well. SDFN.                               |
| 12/8/2014         POH w/tbg and tools. RIH w/4-5/8" blade bit, 2-7/8" Ph-6 tbg to 10,750'. Circ csg clean. Rotate down and bit would plug off and loose circ. Pump sweep and circ csg. Found small slivers of csg in returns. Lay down swivel. POH w/EOT at 9,997'. Test csg to 4966 psi.ISIP - 4950. 5 min - 4541. 10 min - 4303. 15 min - 4014. Secure well. SDFN.           12/9/2014         Finish POH w/tbg. Replace blade bit w/mill tooth bit. RIH w/bit and tbg to 10,750'. RU swivel. Clean out to 10,813'. Circ 400 bbl. Clean out to 10,818 Blow out stripper rubber. Close BOP. Circ clean. Lay down swivel. POH w/EOT @10,280'. Secure well. SDFN.           12/10/2014         RIH w/18 jts tbg. Change out stripper rubber. RU swivel and 3" return line. Clean out from 10,812' to 11,200'. Tag HES well lock. Drill for 1 hr and   | 12/6/2014  | ND vibration equipment. POH w.4 its tbg. Tbg hung up. RU power swivel. POH w/4 its tbg while using power swivel. ND Power swivel. TBG FREE.   |
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|  |            | Finish POH w/tbg. Replace blade bit w/mill tooth bit. RIH w/bit and tbg to 10,750'. RU swivel. Clean out to 10,813'. Circ 400 bbl. Clean out to 10,818'.<br>Blow out stripper rubber. Close BOP. Circ clean. Lay down swivel. POH w/EOT @10,280'. Secure well. SDFN.  |
|  | 12/10/2014 |   |

| Last up    | dated: 5/26/2016 06:24 AM   |
|------------|---|
| Date       | Comments  |
| 12/11/2014 | Finish POH w/tbg and bit. Replace mill tooth bit w/PDC bit. RIH and tag @ 11,190'. RU swivel and stripper head with 3" outlet. Clean out from 11,190' to 11,284'. Circ clean using 320 bbl. RD swivel. POH w/16 jts tbg. hung up. Pull 120,000 to free tbg. Move tbg down free. Work tbg through tight. 10,772 to 10,741 hanging up, worked free. POH w/EOT @ 10,280'. Secure well. SDFN.   |
| 2/12/2014  | Pull tbg up hole 60'. Tbg free. RIH and tag @10,283'. RU swivel and stripper head. Drill down 1 jt. Circ w/160 bbl. Drill down 1 jt. Circ w/160 bbl.<br>Clean out to 11,378'. Circ w/400 bbl using 3 gal sweep. Rd swivel. POH w/17 stds tbg. EOT @ 10,311'. Total fluid circ 1770 bbl. Secure well. SDFN.  |
| 12/13/2014 | RIH w/tbg and PDC bit. Tag @ 10,478'. RU swivel. Work down bit 1 jt. Pump Circ w/275 bbl. RD swivel. RIH and tag @ 11,378'. RU swivel. Drill out 2 jts. Returns plugged off. RD swivel. Found 3" outlet on stripper head plugged off. Plugged off wlarge pieces of well lock. Pictures sent to Midland. NU stripper head. Circ csg clean. Clean out to 11,503'. Circ hole clean. POH w/slight drag. EOT @ 10,250'. Secure well. Shut down for Sunday.   |
| 12/15/2014 | Start WSU. Start in hole from 10,250'. Tagged @ 10,258'. Clean out well to 11,503'. Started to drill Well Lock. Stripper head plugged with large pieces of well lock. Remove stripper. Installed catch pan. Circulated hole clean using vacuum trucks to clear pan of fluids. Discard large pieces of well lock. Drilled well lock squeeze to 11,629' tubing measurements. Circulated clean. POH to 10,248'. Very little drag while POH. R/U pump. Attempt to pressure test squeeze to 7500 psi. Could not get above 5900 psi on test @ 5 BPM injection. Pumped 20 bbls. 5 min 3859 psi. 15 min 3859 psi. 15 min 3859 psi. Bleed pressure to 0 psi. Secure well & shut down for night, ISIP of Test was 5800 psi.   |
| 12/16/2014 | RIH w/ PDC bit from 10,248' to 11,629'. Drill out Well Lock & plug. Circulate clean with 300 bbls fluid. Gas bubble under plug. R/D swivel. TIH pushing debris to 15,509. Circulated clean w/ 500 bbls @ 5 BPM @ 15,509'. Good Oil & Gas Show on Bottom up. POH w/ Bit @ 15,509'. L/D 45 jts work string. Stand back remainder of tubing to 10,148'. Secure Well & SDFN.  |
| 12/17/2014 | SICP & SITP 0 psi. No oil or gas show. Finish POH w/ PDC bit. Secure Well & SDFN.   |
| 12/18/2014 | SICP 0 psi. R/U pump trucks. Pumped 360 bbls water w/ 6000 psi pressure @ 13 BPM. Used 3 sweeps to carry debris to toe. ISIP 4295, 5 min 4160 psi, 10 min 4160, 15 min 4138 psi. P/U RTTS squeeze packer. RIH w/ same to 10,507'. Tested Casing to 7601 psi. Lost 337 psi in 15 min. RIH to 11,479'. Set packer & tested Casing to 7691 psi. Lost 338 psi in 15 min. RIH to 11636'. Set packer. Pumped 40 bbls fluid @ 9.7 BPM 6450 psi. ISIP 3981 psi, 5 min 3958, 10 min 3936, 15 min 3936. Release packer & POH to 11,560 ft. Set packer & tested casing to 7646 psi. Lost 743 psi in 15 min. R/D pump truck. POH to 10,350 ft. Secure well & SDFN.  |
| 12/19/2014 | Received orders from Midland. Called out crew. 0 psi on tubing & casing. POH LD work string. Lay down packer & load out. Will Finish laying down tubing in derrick this am. Secure well & SDFN.   |
| 12/20/2014 | RIH w/ 60 stands in derrick, POH L/D work string. N/D BOPE. Install night cap, R/D WSU. Clean Location. All Equipment is released. Poseidon tank released. All water "20,000 bbls" put in Frac pond. Frac tanks emptied and released from Location. "10" water & "2" acid.  |
| 3/4/2015   | Move in Rig up Reeco well Service Unit, Move in 2 - 500 bbl frac tanks for circ<br>wtr.   |
|            | Fill both tanks w/FW. Move in 2 half pits for flow back.  |
|            | Move in and rack Longhorn Tubulars 397 jts 2-7/8" PH-6 tbg.   |
|            | Move in and rig up Well Foam reverse unit.  |
| 3/5/2015   | Shut down due to weather  |
| 3/6/2015   | Csg psi 2300. RU blow down line. Bled well down to half tank. NU BTI 10k BOP. RU Battle Seervices. Test top csg flange connection to 9000 psi.<br>Held OK. RD Battle Services. Talley top row of tbg. RIH w/260 jts 2-7/8" tbg. EOT @ 8166'. SWI SDFN.  |
| 3/7/2015   | RIH w/381 jts 2-7/8" tbg picking tbg up from racks. Well Foam reverse unit would not start. Decision made to pull EOT to 8758'.<br>RU Capitan WL. Run correlation log and tie in to 2 short jts in csg string. POH and RD Capitan WL. POH w/316 jts 2-7/8" tbg.<br>2000' kill string. SWI SDFS.   |
| 4/3/2016   | MIRU pulling unit (C & J 1475) & BOP's & pump. Spot 5 frac tanks. MIRU TanMar trailer and communications. Fill 5 frac tanks with fresh water.<br>SDFN.  |
| 4/4/2016   | Hold safety meeting and review JSA and discuss all the hazards on location. Wait on correct bit and scraper. Rig up BHA and mic and gauge all tools. RIH with BHA and Wait on the rest of the tubing to be delivered to location. Continue to RIH with BHA to 10,120'. Shut down OPS for the night  |
| 4/5/2016   | Hold safety meeting with all vendors and go over JSA and job tasks for the day. Continue to RIH with bit & scraper to 15,478' Tagged up at 11,629'<br>on CBP, well lock and trace cement. Made the decision to POOH. POOH with BHA and order sealed bearing rock bit. Waiting on Power swivel parts.<br>RIH with BHA (Sealed bearing bit 4.625) Tag CBP @ 11,629' set slips. Test lines on pump to 5,000 psi had a good test after six failed attempts. Shut<br>down for the night.   |
| 4/6/2016   | Hold safety meeting with all vendors on site. Go over JSA's and discuss the hazzards of the job.<br>Rig up rotating head. P/U swivel and break circulation @ 2.5 bpm and 925 psi. Tagged fill @ 11,624'. Drilled 6' of fill & then tagged plug @ 11,630'.<br>Rotating @ 70 RPM pump 2.5 bpm @ 1275 psi while drilling on CBP. Drilled through CBP in 35 min. Washed bit down easy. Made connection and<br>RIH without pumping or rotating. Bring pump online rotating slowly to pump sweep. Began 10-10-10 sweep 4.5 bpm @ 2,100 psi. Pumped away 147<br>bbls when pumped kicked out with low oil pressure light. Fixed problem and continue pumped 221 bbls away and sweep was at surface. 1st sweep<br>to surface @ 295 bbls. Fill reverse pit with clean fluid rig down swivel to pick up pipe off rack. RU hoses and pump to circulate well @ 15,473'. Broke<br>circulation @ 3.5 bpm @ 1500 psi 10 bbls gone. Pump 5 gal of MF-55 @ 1 bpm pumped 40 bbls. Pump 2nd sweep @ 1 bpm then up to 4.5 bpm @<br>2,500 psi. 60 bbls gone and 2nd sweep to surface @ 340 bbls pumped total of 375 bbls. POOH and picked up 120K lbs weight with minimal drag.<br>POOH with 45 stands in derrick tool string hanging and secure @ 12,684'<br>Shut down operations for the night. |
| 4/7/2016   | Hold safety meeting with all vendors on location. Go over JSA's and review all the hazards.<br>Begin to trip tubing out of hole and the brakes on the pulling unit failed. Shut down job to repair brakes on WSU. 3.5 hrs of down time due to repair<br>on pulling unit. POOH with tubing. Breakout and lay down BHA. Strapped and pick up new BHA. Start in the hole with BHA. Tag up @ 11,547' set 15<br>pts down pulled 15pts over. Work pipe for 20 mins. Let 15 pts down on work string, Made call to engineer to discuss. Pump sweep and spot at the<br>end of tubing (capacity tbg 57 bbls). Made another 13' to 11,560'; then stacked out. Pump 2nd sweep away 60 bbls total. Work pipe. Pull 20 pts up<br>and down with soft drop catches. Pump another 173 bbls sweep. Pumped sweep to surface and secured well. Total fluid pumped with sweeps was<br>290 bbls. Shut down for the night.   |
| 4/8/2016   | Hold safety meeting with all vendors on location. Review JSA's and discuss all hazards of the job. Started working pipe pulled 20 pts over and then drop catch tubing. Put 20 pts down then pulled 30 pts over and repeated. Pulled 5 pts over string weight and rotated to the right 6 times and BHA came free. POOH with BHA and CIBP. CIBP looked good. Break down BHA. RIH with new BHA (Bit Sub & 4 5/8 Sealed Bearing Bit Motor). Tag composite plug @ 11,567'. Rig up Power Swivel. Break circulation and start to drill out composite plug. Drill @ 3 bpm-900psi. Broke through composite plug and started to bottom. Pumped 10-10-10 sweep 3 gals of MF-55 @ 4.5 bpm. Sweep gone @ 260 bbls pumped. Shut down due to weather for 3.5 hours with severe lighting in the area. Continue to bottom. @ report time @ 14,599'.  |
| 4/9/2016   | Hold safety meeting with all vendors on location. Go over JSA's and all hazards of the job.<br>Continued in hole, pushed composite plug remnants to 15,474' set 35 pts on tool. POOH with BHA. PU and RIH with new BHA (Round nosed mill,<br>Watermelon Mill, CD Pup, Casing Scraper, CD Pup, Watermelon Mill) Pulling unit down due to brake repair for 2.5 hours. Continue to RIH with new<br>BHA to 11,542' with 374 jts. Rig up power swivel. Break Circulation conventionally @ 2.5 bpm @ 700psi. Dress casing from 11,491' to 11,707' and<br>pump 5 gal of MF-55 for a 10-10-10 Sweep @ surface @ 220 bbls gone. Rig down power swivel and lay down 5 jts. POOH with BHA. Currently at<br>3,500'.   |
| 4/10/2016  | Hold safety meeting with all vendors on location. Go over JSA's and all hazards of the job.<br>Continue out of hole with mill assembly. POOH with BHA. Break down BHA & Pick up HST & CIBP and 4' sub. RIH with BHA (CIPB). Ran through<br>11,400' to 11,700' slow without any problems. Start to displace fluid PU stripping head rubber. Broke last stand and picked up 6' sub to put us on<br>depth. On depth @ 15,478' rigged up hose and TIW valve and dropped ball.<br>Bring pump on line @ 3 bpm. Pumped 72 bbls tool sheared @ 2,250#. Rigged down hose and prepared to POOH. POOH With BHA. Puling unit<br>down again due to brakes. (4 hour repair)<br>Continue to POOH with BHA. POOH with HST, BHA. Rig up Test Packer BHA. RIH with Test Packer BHA. Currently @ 11,400' @ shift change time.  |

| Date      | Comments   |
|-----------|--|
| 4/11/2016 | Hold safety meeting with all vendors on location. Review JSA's and all hazards. Set Packer at 11,708' 380 jts. 16 points of compression. Pressure test lines. Good test,Load backside with 47 bbls and test @ 5,000 psi. Immediate leak off, attempt to pressure up several times with same result. Losing ~ 70 ppm. Pressure test tubing @ 5,000 psi. losing~ 1,700 ppm. Unset and PU packer then reset @ 11,708' with 18 points of compression.  |
|           | Pressure test tubing @ 5,000 psi<br>losing ~1,900 ppm. Move packer up 3' and reset with 23 points of compression and retest tubing with no success. LD 1 joint and reset packer @<br>11,680' with 30 points of compression retest tubing with no success. Pressure test backside again with no success. Immediate leak off. PU 1 joint<br>and reset packer @ 11,708' with 50 points of compression. Retest tubing with no success. TOOH with packer. MU new packer and TIH with new<br>packer. Set packer at 11,771' with 25 points of compression. Test @ 5,000 psi with no success. Lose 100 ppm. Set packer at 11,883' with 25 points<br>of compression. Test @ 5,000 psi with no success. Lose 100 ppm. Set packer at 11,883' with 25 points<br>success. Lose 100 ppm. Packer not seating and/or CIBP at toe leaking. Will POOH and evaluate.  |
| 4/12/2016 | Hold safety meeting with all vendors on location. Review JSA's and all hazards. Set packer at 12,572' with 20 points of compression. Test tubing @ 5,000 psi, lost 500 ppm. Tested back side, pumped 3 bbls and pressured up to 5,000 psi, lost 100 ppm. TOH with Weatherford Squeeze Packer. Waiting on weather, lighting in the area.Set packer at 7,521' with 20 points of compression. Test tubing @ 5,000 psi, lost 500 ppm. Tested back side, pumped 3 bbls and pressured up to 5,000 psi, lost 100 ppm. TOH with Weatherford Squeeze Packer. Waiting on weather, lighting in the area.Set packer at 7,521' with 20 points of compression. Test tubing @ 5,000 psi, lost 05 fo00 ppm. Tested backside @ 5,000 psi, for 5 minutes. Good test. At surface with packer. MIRU wireline caliper log and tractor BHA Caliper log 11,500' located possible breach in casing @ 11,590' - 11,588'. Will send data to Midland to analyze. MU tractor gamma ray BHA and RIH. Log with gamma ray 10,925' - 10,800'. Gamma ray log completed RDMO wireline equipment. SDON. Release crew until 5 pm on 04/13/16.  |
| 4/13/2016 | Hold safety meet and review JSA's. Go over any job hazards and work related issues.<br>Waiting on orders to continue with operation. Released Weatherford and currently waiting on Halliburton equipment. Release Pulling unit day crew<br>and will have night crew on tower @ 6pm. Hold safety meet and review JSA's. Go over job hazards and work related issues. MU BHA. TIH with<br>Halliburton Fas-Drill 4.37" O.D. Composite Bridge Plug. Sit down @ 15,025'. (5th NCS Sleeve). Call in to get orders, set CBP at 15,025'. Pumped 75<br>bbls @ 3 bpm @ 1,820psi. Plug set at 2,450psi. POOH with tubing. Cost of water in frac pond added to daily costs total.  |
| 4/14/2016 | Hold safety meet and review JSA's. Go over any job hazards and work related issues.<br>TOOH with tubing & HST. Rig down BHA. Rig up RTTS Packer. TIH with RTTS Packer to 11,700' and set RTTS Packer @ 11,700' and tested below<br>packer @ 8,000 psi for 10 minutes. Good test. Tested backside @ 5k psi good test. TIH and set packer @11,600' and test below packer to 8,000 psi.<br>Good test. Tested backside to 5,000 psi with immediate leak off. Isolated breach in casing at 11,596 - 11,600' (That is a tubing tally Depth). POOH<br>with RTTS packer.<br>MU & PU Halliburton 4.37" Fas-Drill CBP. TIH with CBP. Currently @ 3,804' with CBP.  |
| 4/15/2016 | Hold safety meeting with all vendors on location. Go over JSA's and all hazards. Continue in hole with Halliburton 4.37" Fas-Drill CBP to 11,623'.<br>Verify pipe count for to ensure depth.<br>Set Halliburton 4.37" Fas-Drill CBP @ 11,623'. Pumped 3 bbls a min @ 1,100psi @ 51 bbls pumped the plug and sheered at 2,451psi. POOH with<br>Halliburton HST. Rig up the Enventure Casing Patch and prepare to RIH. RIH with Enventure Casing Patch. Set Casing Patch successfully. Bottom<br>of Patch @ 11,618' Top of Patch @ 11,579'. Dropped ball and pumped 60<br>bbls to seat. Pulled nose cone thru Patch and test casing to 3,000 psi. Good test, TOOH with nose cone assembly. LD 2-7/8 tubing.  |
| 4/16/2016 | Out of the hole with Patch BHA. Rig down BHA and tally the 2 3/8 tubing. (136 joints on location) RIH with a 4 Blade Junk Mill BHA on the 2 3/8 tubing. RIH w/136 joints of 2 3/8. cross over to the 2 7/8 PH6. Tag liner shoe @ 11,621', RU power swivel and break circulation. Drilled out liner shoe and tag CBP @ 11,627', PU and pump sweep and circulated hole clean. RD power swivel and TOOH with BHA. POOH with BHA   |
| 4/17/2016 | Hold safety meeting with all vendors on location. Go over JSA's and all hazards of the job task.<br>POOH with 2 3/8 tubing & Mill BHA. Rig down Mill BHA. Rig up Weatherford Test Packer BHA and RIH. Set Test Packer @ 9,032' that's 292 joints in<br>the hole. Rig up iron to test to 8,000psi.<br>Test Packer to 8,000psi held test for 10 minutes with only loss of 3 psi. Bleed pressure of and rig down iron and prepare to POOH with BHA. POOH<br>with Packer BHA. Rig down BHA.<br>Rig up 4 Blade Junk Mill BHA to RIH to drill out plugs.Tag plug @ 11,627' RU power swivel and drill time 82 minutes. Pump sweep and circulate hole<br>clean. TIH to next plug at 5th NCS Sleeve.<br>Tag plug @ 15,025' drill time 18 minutes. Test casing against CIBP. Bad test. Leak off 100 ppm (same results from previous test against CIBP). TIH<br>to Shoe to pump sweep and clean the hole.   |
| 4/18/2016 | Hold safety meeting with all vendors on location. Go over JSA's and all hazards of the job task.<br>Continue to RIH and tag the CIBP @ 15,475', Pump a 10-10-10 Sweep off bottom total of 411 bbls. POOH with the 4 Blade Mill BHA. Rig down<br>BOP's and Rig up 7 1/16 10k Master valve re-position lay down machine. MU & PU 3-1/8 TCP guns. TIH with TCP guns.  |
| 4/19/2016 | Hold safety meeting with all vendors on location. Go over JSA's and all hazards of the job task.<br>Coninued to RIH with TCP guns. Pressure activate bull plug FH @ 2,230psi. Shot TCP Guns @ 15,465' to 15,467' & 15,415' to 15,417' & 15,365' to<br>15,367 & 15,315' to 15,317'. Indication that all guns fired. POOH with BHA. Laying down tubing while coming out of hole. POOH with TCP Guns,<br>verify all guns fired. Rig down TCP Guns and SWI. 5 bpm was established @ 4,410psi. Pumped 100 bbls @ 4,350psi shut down. Rig down pump<br>and iron and power swivel. Stack and load 2 7/8 tubing and move 2 3/8 tubing and racks to side of location.   |
| 4/20/2016 | Hold safety meeting with all vendors on location. Go over JSA's and all hazards of the job task.<br>RDMO pulling unit and tubing. MIRU remaining frac tanks and 10M Frac Stack. Spot acid tanks and open top tank with gas buster. MIRU flow back.<br>MIRU pump down equipment for W/L. MIRU water transfer and start to fill frac tanks. Continue to fill frac tanks and kick on well over at frac pond to<br>refill.   |
| 4/21/2016 | Hold safety meeting with all vendors on location. Go over JSA's and all hazards of the job task.<br>Found acid transport leaking and made the proper calls to repair. MIRU W/L and pressure control gear & pump down equip. Gamma ray log/CCL log<br>10,950' - 10,850'. OWP 3,950 psi Establish injection rate of 12 bpm 6,950 psi, Pressured out on 4 attempts. Will pump 2,000 gals of acid and<br>breakdown toe & attempt PD again. Top shot 15,025'. Could not reach desired depth. Pressured out on 4 attempts. Will pump 2,000 gals of acid and<br>breakdown toe & attempt PD again. Top shot 15,025'. Could not reach desired depth. Pressured out on 4 attempts. Will pump 2,000 gals of acid and<br>breakdown toe & attempt PD again. Pumped 2000 gals of acid at 12 bpm 7,542 psi. Broke down with 401 bbls to 6,440 psi. MU/PU perf guns for PD.<br>At 12 bpm 5,900 psi BHA sat down @ 11,586' attempted 5 times to pump thru the obstruction with no success. POOH with BHA for inspection.<br>Decision made to get a Magnum dummy plug. Will arrive on location at 07:30  |
| 4/22/2016 | Rig down Weatherford wireline due to poor service performance. Call out new W/L company (Dominion Wireline). MIRU Sanjel back side equipment.<br>(Blender and Hydration) and all support equipment. Wait on W/L and pressure control and crane. MIRU Dominion Wireline and support equipment.<br>PU 3-1/8" guns and magnum dummy plug. RIH to perf interval: Bottom shot 15,240' Top shot 15,025'. All shots fired. Pumped 2000 gals of acid at 15<br>bpm 6,499 psi. Broke down with 332 bbls to 4,999 psi. ISIP 4,137 psi. Continue RU frac.  |
| 4/23/2016 | Hold safety meeting with all vendors on location. Go over JSA's and all hazards of the job task.<br>Continue to MIRU Sanjel frac spread and all support equipment. MIRU Pilot Fuel cell. Spot cell and transfer fuel. Continue to Rig up frac. Pressure<br>test treating iron @ 8,500 psi. Perform bucket test. Good test. Put restraints on treating iron. Inspect location, chemical staging area, high pressure<br>barriers. Re-Pressure test to 9,500 psi. Hold safety meeting with all vendors on location. Go over JSA's and all hazzard of the job task. Prepare to<br>begin frac stg 1.  |
| 4/24/2016 | Hold safety meeting with all vendors on location. Go over JSA's and all hazards of the job task.<br>Re-Pressure test to 9,500psi. Both valves on the flow-cross were leaking. Made the call to<br>Oilstates to change valves. Place 10k low torque valves on for well control and start frac while waiting on Oilsates. Frac stage 1/20. Open well @<br>3,930psi. Pumped 100% to design. Total sand 132,160 lbs 40/70; 466,500 lbs 20/40. Frac Gradient 0.883. Pressure test lubricator to 8,000 psi.<br>Bleed down to 4,500 psi open well. RIH with plug & guns. Set down in patch to pull up and we were stuck. Made the call to surge well and came free<br>and POOH. SWI and pull off lub to inspect tool string. The plug and be stripped of all working parts and the only thing left was center tube. Rigged<br>frac back on well to pump a gel sweep to clear and move all plug parts down hole. Pumped a total of 1,240 bbls. 400 bbls of cross link. Rig up W/L<br>and pressure test lubricator to 8,000psi. RIH with Durmy plug. Sat down at 11,611' same spot as previous runs. Surged well came free and POOH<br>with dummy plug run. Call was made to run CT to clean up patch. Rig down W/L and support equip. for CTU. |
| 4/25/2016 | Hold safety meeting with all vendors on location. Go over JSA's and all hazards of the job task.<br>Waiting on Titan CTU to arrive on location. Rig up Titan CTU, test lines to 8,000 psi. RIH with BHA JZ-Rock bit 4.00 ID. At 6,000' the coiled tubing<br>developed a pinhole leak while RIH between the reel and injector head. SD pump, back pressure valve held, POOH. SWI and rigged down Titan<br>CTU. Waiting on MMS CTU to arrive on location. Hold Saftey meeting and MIRU MMS CTU. Test lines to 8,000 psi. RIH with BHA JZ-Rock bit 4.00<br>ID. Weight check at 10,400' 24k circulating pressure at 6,100 psi WH at 3,700 psi 2.5 bpm. Tagged obstruction at 11,625' PU & RIH and did not tag<br>again. PU above patch and RIH did not tag. At 11,667' tagged obstruction PU to 11,644' and RIH and tagged again at 11,667' milled for 45 minutes<br>with circulating pressure at 6,527 WH at 3,675 psi. Milled thru obstruction and RIH to 11,800' PU to<br>11,600' and RIH did not tag. Pumped 2-10 bbl sweeps and continued to 15,010'. Reached 15,010' pumped 10-10-10 sweep and POOH. At surface<br>MU 4'' taper mill & watermelon mill BHA. Test Lubricator to 8,000 psi. RIH with BHA to dress top of patch.        |

| Date 4/26/2016   | Comments<br>Hold safety meeting with all vendors on location. Go over JSA's and all hazards of the job task.   |
|------------------|--|
| 12012010         | Continued to RIH with Taper mill & Watermelon Mill. Run through Patch from 11,579' to 11,618' reciprocate 4 times thru patch. POOH with BHA.<br>SW and rig down coil unit. Begin rigging up WL and Frac equipment. Shut down for high winds. Rig up WL to run dummy plug and travel through<br>patch without any problem. POOH with dummy plug. RIH & Plug and perf Stage 2/20. CFP at 15,015'. Shoot guns @ 14,985' to 14,895' Max psi<br>4,910 Total bbls 310. Frac Stage 2/20, Placed 65,000 lbs of 40/70 ProLite, Placed 186,600 lbs of 20/40 ProLite. 6,502 bbls. Frac<br>Gradient 0.872 pumped 84% of design pumped with early flush due to transfer belt sanding off in the 5 ppg stage. Flushed well and SD. RIH & Plug<br>and perf Stage 3/20. CFP at 14,865'. Shoot guns @ 14,840' to 14,690' Max psi 5,217 Total bbls 292. Stage 3 frac. During acid stage the frac stack<br>developed a leak between swab valve and goat head. Acid was displaced and SD. Waiting on arrival of Oil States to replace ring gasket. ETA 07:00,<br>Lay down risers. Sanjel performing pump maintenace.   |
| 4/27/2016        | Hold safety meeting with all vendors on location. Go over JSA's and all hazards of the job task.<br>Change out ring gasket on frac stack because of leak and re-test stack. Rig up lines for frac.<br>Frac Stage 3/20, Placed 65,100 lbs of 40/70 ProLite, Placed 234,140 lbs of 20/40 ProLite, 4,817<br>bbls. Frac Gradient 0.884 pumped 100% of design. Performed a step rate test ISIP 4,400psi; 5min ISIP 4,258psi; 10 min ISIP 4,218psi; 15 min ISIP<br>4,204psi. T-Belt sanded off during 4.5 ppg only one side spinning and made the decision to run it out on 4.5 ppg. RIH & Plug and perf Stage 4/20.<br>CFP at 14,665'. Shoot guns @ 14,490' to 14,640' Max psi 5,326 Total bbls 288.<br>Turm well over to Frac. Test Lines and pop-offs. Frac Stage 4/20, Placed 65,240 lbs of 40/70 ProLite, Placed 305,360 lbs of 20/40 ProLite. 4,430<br>bbls. Frac Gradient 0.887 pumped 100% of design. Job shut down due to suction hose leak. Pressure was high until the 1.5 PPG stage.<br>RIH & Plug and perf Stage 5/20. CFP at 14,290' Shoot guns @ 14,440' to 14,640' Max psi 5,938 Total bbls 265. Grease frac stack. Frac Stage 5/20,<br>Placed 65,560 lbs of 40/70 ProLite, Placed 236,340 lbs of 20/40 ProLite. 4,870 bbls total. Frac Gradient 0.897 One side of T-belt malfunctioned,<br>finished stage with 2.5 ppg 20/40 all prop placed. RIH & Plug and perf Stage 6/20. CFP at 14,265' Shoot guns @ 14,240' to 14,090' Max psi 5,123<br>Total bbls 261. Waiting on replacement T-belt to arrive from Odessa. Frac Stage 6/20, Placed 66,340 lbs of 40/70 ProLite, Placed 239,320 lbs of<br>20/40 ProLite. 4,407 bbls. Frac Gradient 0.908 100% prop placed.<br>RIH & Plug and perf Stage 7/20. CFP at 14,065' Shoot guns @ 13,890 to 14,040' Max psi 5,290 Total bbls 290. Turn well over to Frac. Test Lines<br>and pop-offs.  |
| 4/28/2016        | Hold safety meeting with all vendors on location. Go over JSA's and all hazards of the job task.<br>Frac Stage 7/20, Placed 65,660 lbs of 40/70 ProLite, Placed 298,020 lbs of 20/40 ProLite. 4,289<br>bbls. Frac Gradient 0.894 Pumped 100% of design. RIH & Plug and perf Stage 8/20. CFP at 13,865' Shoot guns @ 13,690' to 13840' Max psi 5,475<br>Total bbls 237. Frac Stage 8/20, Placed 65,400 lbs of 40/70 ProLite, Placed 299,500 lbs of 20/40 ProLite. 3793 bbls. Frac Gradient 0.887 Pumped<br>100% of design. RIH & Plug and perf Stage 9/20. CFP at 13,665' Shoot guns @ 13,490' to 13,640' Max psi 5,294 Total bbls 214. Oil States greased<br>frac stack. Frac Stage 9/20, Placed 62,000 lbs of 40/70 ProLite, Placed 291,220 lbs of 20/40 ProLite. 37.44 bbls. Frac<br>Gradient 0.888 Pumped 100% of design. RIH & Plug and perf Stage 10/20. CFP at 13,465' Shoot guns @ 13,290' to Max psi 13,440. Total bbls 186.<br>Frac Stage 10/20, Placed 67,060 lbs of 40/70 ProLite, Placed 238,800 lbs of 20/40 ProLite. 4,331 bbls. Frac Gradient 0.918 Pumped 100% of<br>design. RIH & Plug and perf Stage 11/20. CFP at 13,265' Shoot guns @ 13,090' to 13,240 Max psi 6,388 Total bbls 166. Frac Stage 11/20, Placed<br>65,740 lbs of 40/70 ProLite, Placed 240,160 lbs of 20/40 ProLite. 4,600 bbls. Frac Gradient 0.868 Pumped 100% of design. RIH & Plug and perf<br>Stage 12/20. CFP at 13,065' Shoot guns @ 12,890' to 13,040 Max psi 5,341 Total bbls 165. Frac Stage 11/20, Placed 64,000 lbs of 40/70 ProLite.<br>Placed 186,040 lbs of 20/40 ProLite. 4,386 bbls. Frac Gradient 0.876 Pumped 83% of design due to 2,200 psi increase in 5 ppg over flushed well<br>and SD. RIH & Plug and perf Stage 13/20. CFP at 12,865' Shoot guns @ 12,690' to 12,840 Max psi 5,260 Total bbls 156. Oil States greased frac<br>stack.<br>Frac Stage 13/20, Placed 65,560 lbs of 40/70 ProLite, Placed 243,070 lbs of 20/40 ProLite. 3902 bbls. Frac Gradient 0.897 Pumped 103% of design<br>and SD. RIH & Plug and perf Stage 13/20. CFP at 12,865' Shoot guns @ 12,690' to 12,840 Max psi 5,260 Total bbls 156. Oil States greased frac<br>stack.    |
| 4/29/2016        | Total water used for frac and pump down 69,415bbls. Total water used for remedial 2500 bbls.<br>Hold safety meeting with all vendors on location. Go over JSA's and all hazards of the job task.<br>RIH & Plug and perf Stage 14/20. CFP at 12,660 Shoot guns @ 12,490' to 12,640' Max psi 5,338 Total bbls 148. Frac Stage 14/20, Placed 65,480<br>lbs of 40/70 ProLite, Placed 241,500 lbs of 20/40 ProLite. 3475 bbls. Frac Gradient 0.881 Pumped 103% of design. RIH & Plug and perf Stage<br>15/20. CFP at 12,468' Shoot guns @ 12,280' to 12,440' Max psi 6559 Total bbls 110. Frac Stage 15/20, Placed 65,486 lbs of 40/70 ProLite, Placed<br>246,420 lbs of 20/40 ProLite. 3,576 bbls. Frac Gradient 0.889 Pumped 102% of design. RIH & Plug and perf Stage 16/20. CFP at 12,265' Shoot<br>guns @ 12,089' to 12,240' Max psi 5,7 Total bbls 96. Frac Stage 16/20, Placed 63,000 lbs of 40/70 ProLite, Placed 245,750 lbs of 20/40 ProLite.<br>3,917 bbls. Frac<br>Gradient 0.887 Pumped 100% of design. Pressure spiked on flush and tripped pumps down to 32 bpm. Started to come back up on rate to flush the<br>well and pressure rose sharply causing screen out with 55 bbls left in flush leaving 11,550 lbs of 20/40 ProLite in the wellbore. Surged the well and<br>attempted to pump back into stage and flush well and were unsuccessful. Coil will be coming out to clean out the well. Waiting on CTU to arrive.<br>MIRU CTU pressure test surface equip. to 8,500 psi. Open well pressure @ 3,900 psi RIH with 4" 5 blade junk mill BHA. Circulating psi 4,195, well<br>head pressure 1,995, 1/2 bpm Washed down and tagged plug at CT depth 12,314' 48 minute drill time. Light sand in returns. Washed down to CT<br>depth 12,500' with heavy sand and plug parts in returns pumping sweeps. Returns cleaning up. POOH at 20 fpm washing sand and pumping<br>sweeps.  |
| <b>4/30/2016</b> | Hold safety meeting with all vendors on location. Go over JSA's and all hazards of the job task.<br>Coil Pooh with BHA. Rig down coil unit and move off location. Move W/L and frac back in to rig up. Pressure test to 9,500 psi. Established rate @ 62<br>bbls a min @ 7,000psi. Pumped 478 bbls total. Rig up W/L & pressure test lub to 9,000 psi. RIH & Plug and perf Stage 17/20. CFP at 12,065' Shoot<br>guns @ 11,885' to 12,030' Max psi 5,101 Total bbls 78. Frac Stage 17/20, Placed 65,480 lbs of 40/70 ProLite, Placed 233,960 lbs of 20/40 ProLite.<br>4,292 bbls. Frac Gradient 0.881 Pumped 100% of design. Oil states changing out flow cross. RIH & Plug and perf Stage 18/20. CFP at 11,865'<br>Shoot guns @ 11,675' to 11,825' Max psi 5,133 Total bbls 63. Frac Stage 18/20, Placed 64,660 lbs of 40/70 ProLite, Placed 232,920 lbs of 20/40<br>ProLite. 4,172 bbls. Frac<br>Gradient 0.889 Pumped 100% of design. RIH & Plug and perf Stage 19/20. CFP at 11,665' Shoot guns @ 11,475' to 11,625' Max psi 4,982 Total<br>bbls 59. Frac Stage 19/20, Placed 65,250 lbs of 40/70 ProLite. Placed 234,680 lbs of 20/40 ProLite. 4,281 bbls. Frac Gradient 0.891 Pumped 100%<br>of design. RIH & Plug and perf Stage 20/20. CFP at 11,465' Shoot guns @ 11,475' to 11,625' Max psi 4,982 Total<br>bbls 59. Frac Stage 19/20, Placed 65,250 lbs of 40/70 ProLite. Placed 234,680 lbs of 20/40 ProLite. 4,281 bbls. Frac Gradient 0.891 Pumped 100%<br>of design. RIH & Plug and perf Stage 20/20. CFP at 11,465' Shoot guns @ 10,904' to 10,908' Max psi 4,896 Total bbls 26. Frac Stage 20/20, Placed<br>750 lbs of 40/70 ProLite, Placed 24,000 lbs of 20/40 ProLite. 1,107 bbls. Frac Gradient 0.881 Pumped 100% of design. SI 4,850 psi RDMO frac,<br>wireline, and support equipment.  |
| 5/1/2016         | Hold safety meeting with all vendors on location. Go over JSA's and all hazards of the job task.<br>RDMO frac and all related equipment. Release frac tanks and acid tanks. Continue to rig down and move out frac equipment. Prep for Coil Unit. Cos<br>adjustment from yesterday's report.   |
| 5/2/2016         | Hold safety meeting with all vendors on location. Go over JSA's and all hazards of the job task.<br>MIRU Coil Unit and all support equipment. Test Coil and flow-back to 8,000psi. OPENED WELL UP @ 09:50 WITH 4,120 PSI. RIH WITH COIL AND<br>BHA. STARTED OUT AN ADJUSTABLE CHK. PUMPING '/ BBL IN AND '// BBL OUT. UNTIL WE GETTING TO (10,900 FT). THEN SWITCH TO A<br>14/64" POSITIVE CHK AND GET 2 BPM IN AND 2 BPM OUT. RIH SLOWLY TAG PLUG #1 AT 11,510' (CTM). WIRELINE DEPTH WAS 11,465'.<br>RATE IS 2 BPM IN AND 2.5 BPM OUT ON 14/64" POS CHOKE. CIRC - 6,130 PSI. WELLHEAD - 4,350 PSI. DRILLED THRU PLUG IN 12<br>MINUTES. PUMPED 10 BBL SWEEP. TAG 2ND PLUG AT 11,706' (CTM). WIRELINE DEPTH WAS 11,665'. RATE IS 2 BPM IN AND 2.5 BPM<br>OUT ON 14/64" POS CHOKE. CIRC- 6,325 PSI. WELLHEAD - 4,520 PSI. DRILLED THRU PLUG IN 49 MINUTES. PUMPED 10 BBL SWEEP. TAG<br>3RD PLUG AT 11,907' (CTM). WIRELINE DEPTH WAS 11,865 RATE IS 2 BPM IN AND 2.5 BPM OUT ON 14/64" POS CHOKE. CIRC - 6,290 PSI.<br>WELLHEAD - 4,480 PSI. DRILLED THRU PLUG IN 35 MINUTES. PUMPED A 10 BBL SWEEP. TAG 47 H0 PLUG AT 12,104' (CTM). WIRELINE<br>DEPTH WAS 12,065' RATE IS 2 BPM IN AND 2.75 BPM OUT ON 14/64" POS CHOKE. CIRC - 6,240 PSI. WELLHEAD - 4,290 PSI. DRILLED<br>THRU PLUG IN 90 MINUTES. PUMPED A 10 BBL SWEEP. PLUG #5 WAS DRILLED DURING THE FRAC JOB. RIH AND TAGGED OFF<br>ON BOTH SIDES DUE TO HUGE PLUG PARTS. CLEANED OUT BOTH SIDES AND POOH. SWAP BHA'S TO A 5 BLADE REVERSE CLUTCH<br>OFF-SET MILL., PRESSURE TEST COIL TO 8,000 PSI. BLEED DOWN TO 4,100 PSI OWH. OPENEDWELL UP@01:20 AMWITH 4,101 PSI. RIH<br>WITH COIL AND BHA. STARTED OUT ON AN ADJUSTABLE. START PUMPING '/ BBL IN AND ½ SBL OUT TO (10,850'). SWITCH TO A 14/64<br>POSITIVE CHOKE TO GET 2 BPM IN AND 2 BPM OUT. RIH SLOWLY AND TAG PLUG #6. TAG 6TH PLUG AT 12,542' (CTM). WIRELINE<br>DEPTHWAS 12,468' RATE IS 2 DPM IN AND 2 BPM OUT. RIH SLOWLY AND TAG PLUG #6. TAG 6TH PLUG AT 12,542' (CTM). WIRELINE<br>DEPTHWAS 12,468' RATE IS 2 BPM IN AND 2 BPM OUT. RIH SLOWLY AND TAG PLUG #6. TAG 6TH PLUG AT 12,542' (CTM). WIRELINE<br>DEPTHWAS 12,468' RATE IS 2 |

| Date      | Comments  |
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| 5/3/2016  | Hold safety meeting with all vendors on location. Go over JSA's and all hazards of the job task.<br>WHILE MAKING OUR SHORT TRIP PULLED INTO SOMETHING AT 12,193. COULD NOT MOVE UP OR DOWN. PUMPED A HEAVY 10 - 10 - 10<br>SWEEP AND PIPE ON PIPE. WORKED PIPE UP & DOWN PULLING NO MORE THE 15K OVER RUNNING WEIGHT. AND SAME GOING<br>DOWN. SURGED WELL A FEW TIME TO TRY TO FREE UP. SHUT IN MANIFOLD AND BLEED DOWN COIL PSI TO LET PIPE RELAX. WILL<br>HOLD FOR AN HOUR. BEFORE NEXT STEP. RIG UP PUMP TO BACK - SIDE AND PUMP 3 BBLS A MIN. BACK SIDE BEGAN TO PRESSURE<br>UP AT 62 BBLS TO 4,090 PSI. SHUT PUMPS DOWN AND SURGE WELL A FEW TIMES WITH 10K OVER RUNNING WEIGHT AND 10K DOWN.<br>NO RELIEF, PUMP NITROGEN DOWN THE BACK - SIDE 3,600 SCF. SAW A GRADUAL INCREASE IN WELL PRESSURE. MADE CALL TO<br>TOWN AND DISCUSSED AND MADE THE DECISION TO SHUT WELL IN AND LET THE PIPE RELAX OVER NIGHT. Held 6K on coil and 3.5K or<br>backside overnight.  |
| 5/4/2016  | Hold safety meeting with all vendors on location. Go over JSA's and all hazards of the job task.<br>SURGED WELL WHILE SAT DOWN THEN PULLED OVER TO 48,000#. NO MOVEMENT.<br>PUMPED DOWN THE BACK-SIDE TOTAL OF 820 BBLS. BEGAN TO TAKE FLUID @ 3,860 PSI. SURGE WELL WHILE STACKED OUT AND<br>THEN SURGED WELL WHILE PULLING UP TO 30,000#. FLOWED BACK 1,230 BBLS. PRESSRE BEGAN TO FALL FROM 3,800 PSI TO 400<br>PSI. PRESSURE STAYING AROUND 600 PSI. OIL CUT LIGHT SAND NO GAS. WAITING ON ORDERS. STARED FLOWING WELL @ 250 PSI @<br>3/4 A BBLS A MINUTE.<br>AFTER 3 HOURS WELL WAS FLOWING @ 1/2 BBL A MINUTE AND SURGING BETWEEN 50 PSI AND 100 PSI. CHOKE WAS @ 34/64.<br>FLOWED BACK 240 BBLS SINCE WE STARTED WE FLOWED A TOTAL OF 1,470 BBLS. TRACE OIL LIGHT SAND. SHUT WELL IN AND WAIT<br>FOR 2 HOURS. THEN OPEN FULLY TO SEE WHAT WELL DOES WELL SHUT IN. OPEN WELL @ 2,000 PSI FLOWED 125 BBLS WELL WENT<br>TO 0 PSI. WELL SHUT IN.<br>OPEN WELL @ 2,000 PSI FLOWED 129 BBLS WELL WENT TO 0 PSI. SHUT WELL IN<br>WELL SHUT IN. OPEN WELL @ 1,800 PSI FLOWED 100 BBLS WELL WENT TO 0 PSI.<br>WELL SHUT IN. OPEN WELL @ 1,800 PSI FLOWED 100 BBLS WELL WENT TO 0 PSI.<br>WELL SHUT IN. OPEN WELL @ 1,800 PSI FLOWED 100 BBLS WELL WENT TO 0 PSI.<br>WELL SHUT IN. OPEN WELL BACK IS 1824 BBLS. PLL 64K OVER MOVE COIL 60' UPHOLE AND STARTING TO SEE PRESSURE |
| 5/5/0040  | EQUALIZE.   |
| 5/5/2016  | Hold safety meeting with all vendors on location. Go over JSA's and all hazards of the job task.<br>SET DOWN ON COIL 0 THEN PULLED TO 70K PUMPED DOWN THE BACK SAID AND WE BEGAN TO MAKE HOLE 5 FT AT A TIME. MADE 70<br>TOTAL TO 12,074'. SWAPPED OVER TO PUMP DOWN COIL. PUMPED @ 3 BBLS A MIN. GOT MOTOR BACK AND STARTED SEEING<br>CIRCULATION UP BACK-SIDE. PUMPED 10-10-10 SWEEPS HEAVY AND BEGAN TO GET RETURNS. CLEANED OUT PLUG CATCHER AND<br>FOUND HUGE PLUG PARTS WHILE STILL PUMPING SWEEPS AND FLOWING AT 3 BBLS IN AND 3 BBLS OUT.<br>DROPPED 3/4 BALL TO DISCONNECT COIL MOTOR. PUMPED 70 BBLS DOWN COIL BUT COULD NOT GET BALL TO SET. FLOWED BACK<br>COIL TO MOVE BALL AND CONTINUED TO TRY AND SET, WOULD NOT SEAT. COIL IS CYCLED OUT OF PULLS. WILL LOAD HOLE WITH<br>BRINE AND CUT COIL THIS AM TO PREPARE FOR SNUBBING UNIT AND FISH COIL/BHA.   |
| 5/6/2016  | Hold safety meeting with all vendors on location. Go over JSA's and all hazards of the job task.<br>PULL ON COIL TO 75K NO MOVEMENT. PUMP 15.6 POUND MUD DOWN COIL TO KILL COIL PRESSURE. PUMPED 60 BBLS TOTAL. RIG UP<br>TO CUT COIL TO PUT TIW VALVE AND ON TOP OF COIL.DISPLACE MUD IN COIL TO MAKE W/L RUN. WAITING ON TOOLS FOR W/L.<br>FINISH RIGGING UP W/L TOOLS AND STAB LUB ON COIL AND TIW VALVE.<br>AFTER STABBING LUB AND TOOLS SAW WHERE TIW VALVE WAS PUT ON BACKWARDS. LAY LUB BACK DOWN TO SWAP AROUND TIW<br>VALVE. WIND PICKED UP AND LIGHTING AND STORMS BLEW IN.SHUT DOWN DUE TO WEATHER CONDITIONS.   |
| 5/7/2016  | Hold safety meeting with all vendors on location. Go over JSA's and all hazards of the job task.<br>PULL ON COIL TO 75K NO MOVEMENT. RIG UP W/L AND 1 INCH JET CUTTER. RIH TO 11,420' AND SAT DOWN WHILE PUMPING 2 BBLS A<br>MIN. PICKED UP AND MADE 4 ATTEMPTS TO TRY AND PUMP DOWN SAT DOWN AJIN SAME SPOT EVERY TIME. PULLED UP TO 11,415'<br>AND MADE THE CUT. SAW GREAT INDICATION THE PIPE CUT. POOH WITH W/L PICK UP ON COIL TO 70K AND PUSHED DOWN TO<br>STACK-OUT WEIGHT. MADE 10 ATTEMPTS WITH NO LUCK MAX PULL WAS 73K. WAIT ON HOT SHOT OF NEW CUTTER TO LOACTION.<br>RIH WITH W/L AND CUTTER TO 10,500' SHOOT CUTTER AND HAD A BAD CUT. POOH NO INDICATION CUTTER WENT OF F.PULLED ON<br>COIL TWICE TO 80K AND BROKE LOOSE FROM THE FIRST CUT. GOT ALL STRING WEIGHT BACK. 30K WAS STRING WEIGHT. TIE COIL<br>BACK ON TO REAL WITH WELDER.<br>MADE A HALF OF WRAP AND WELD BROKE. WAS ABLE TO SECURE REEL. RE-WELD AND HOOK STRAPS AND WEDDING RINGS TO<br>COIL TO 8E ABLE TO SPOOL POOH.<br>POOH WITH COIL SLOWLY, BUMP UP AND SHUT BMY. RDMO COIL UNIT. RIG DOWN TREE TO BOTTOM MASTER VALVE.  |
| 5/8/2016  | Hold safety meeting with all vendors on location. Go over JSA's and all hazards of the job task.<br>RIG UP BOP'S AND TORQUE AND TEST STACK AND BOP'S. MIRU PULLING UNIT AND SNUBBING UNIT. COUNT 2 3/8 PH6 110 TOTAL<br>JOINTS 530. TALLIED TUBING. MAKING UP BHA. RIH WITH BHA FILL TUBING EVERY 50 JOINTS. WELL-HEAD PSI 400 PSI. SAT DOWN ON<br>JOINT # 340 AT 10,602' TRIED TO GET ON TOP OF IT 3 TIMES COULD NEVER MAKE A LATCH. PUMPED A 15 BBL SWEEP @ 3 BBLS A MIN<br>AND CIRCULATED IT OUT OF THE HOLE. TRIED TO LATCH AGAIN WITH NO LUCK. RIG UP POWER SWIVEL SO WE CAN DRESS UP COIL<br>TO LATCH. DRESS COIL @ 10,602 TO MAKE LATCH. CAUGHT COIL THIS AM. JAR LOOSE AND PULL 110K OVER. NOT SURE HOW MUCH<br>FISH CAUGHT.  |
| 5/9/2016  | Hold safety meeting with all vendors on location. Go over JSA's and all hazards of the job task.<br>CONTINUE TO RIG UP POWER SWIVEL. TAGGED TOP OF FISH @ 10,602' BEGAN ROTATING TUBING TO DRESS TOP OF COIL. WENT<br>OVER COIL AND LATCHED UP. STRING WEIGHT WAS 57K. PULLED TO 67K AND SET JARS OFF RE-PEATED PROCESS 7 TIMES @ 87K.<br>CIRCULATE SWEEP. PULLED TO 110K TBG PULLED FREE STRING WEIGHT WAS 57,500#. SLUGGED TUBING WITH 25 BBLS OF 15.6 MUD<br>RIG DOWN POWER SWIVEL. PULLED 339 JOINTS OUT OF HOLE. COIL WAS IN OVER SHOT.<br>LAYED DOWN 849 FT OF COIL FROM FISH. REPLACED 2" GRAPPLE AND 3 3/4 BOVM.<br>RIH WITH TBG AND SAME BHA. 339 JOINT IN DERRICK, PU 28 JOINTS OFF OF PIPE RACKS. TAGGED FISH @ 11,431' PICK UP TO 11,426'.<br>RIG UP PUMP IRON AND PUMP 15 BBL SWEEP 90 VIS. CHASED BY 250 BBLS. RIH TO 11,450' TAGGED FISH. RIG UP POWER SWIVEL.<br>ROTATED OVER FISH LATCHED ONTO FISH AND KICKED POWER SWIVEL OFF. PICK UP TO 20K OVER STRING WEIGHT. SET JARS OFF.<br>CONTINUED JARING FOR 45 MIN. PULLED UP TO 35K OVER STRING WEIGHT FISH CAME FREE. RIG DOWN POWER SWIVEL.<br>CURRENTLY POOH WITH FISH.  |
| 5/10/2016 | HOLD SAFTEY MEETING WITH ALL VENDORS ON LOCATION. PUMPED 30 BBLS OF 15.6 MUD DOWN TUBING CHASED BY 20 BBLS OF<br>FRESH WATER. POOH WITH 367 JOINT OF 2 3/8 TUBING AND BHA. HAD 36.67' OF COIL IN OVERSHOT. REPLACED JARS AND OVERSHOT<br>BOWL. REPLACED 2' NITRALLY GRAPPLE. TOP OF NEW FISH IS @ 11.487' WELL TOO A KICK TO 3.690 POUNDS. PUMPED 275 BBLS OF<br>10# BRINE TO KILL WELL. RIH WITH TUBING AND BHA TO TOP OF FISH. TAG FISH @ 11.487. RIG UP POWER SWIVEL AND 8' PUP JOINT.<br>KICKED PUMP IN AT 2 BBLS A MIN AND LATCHED COIL.<br>STARTED JARRING AT 20K OVER STRING WEIGHT. INCREASED BY 10K EACH TO TO 110K WITCH IS 50K OVER STRING WEIGHT.<br>PUMPED A SWEEP @ 90 VIS. RIG DOWN POWER SWIVEL. RIG UP W/L AND 1 INCH CUTTER. RIH WITH W/L CUTTER PUMP DOWN TO<br>11,428' W/L MEASUREMENT COULD NOT GET THROUGH TOP OF COIL SO WE PULLED UP 5' AND GOT STUCK IN THE JARS. WORKED<br>W/L AND TRIED TO PUMP ON IT DOWN TUBING AND UP THE BACKSIDE WITH NO SUCCESS, PULLED W/L OUT OF ROPE SOCKET. POOH<br>WITH W/L AND RIG DOWN.   |
| 5/11/2016 | HOLD SAFTEY MEETING WITH ALL VENDORS AND GO OVER JSA'S. PULLED W/L OUT OF ROPE SOCKET AND POOH. RIG DOWN W/L.<br>WORKED TUBING TO 140K JARS WERE GOING OFF @ 80k. COULDN'T BREAK COIL. RIG UP POWER SWIVELAND ROTATE<br>FREE FROM OVERSHOT. POOH STOOF BACK 182 STANDS. RIG UP 4' CUT LIP GUIDE. 3 5/8 OD SNIPPER OVERSHOT, AND 1 JOINT OF 2<br>7/8 TUBING AND CROSS OVER TO 2<br>3/8 FTC VALVE. RIH WITH TUBING AND BHA TO TOP OF FISH 11,487'. WENT OVER TOP OF FISH @ 11,487' SWALLOWED DOWN TO<br>11,504' PULLED INTO SNIPPER OVER SHOT. SNIPPER SHEARED @ 30K OVER (85K) PULLED UP TO 100K TO SET JARS OFF. PULLED UP<br>TO 120K AND FELL BACK TO 110K. PULLED BACK TO 120K AND FELL BACK TO 105K PULLED BACK UP TO 120K AND FELL BACK TO 100K<br>CONTINUED TO PULL AND BROKE FREE WEIGHT BACK TO 58K. POOH WITH 40 JOINTS. AND WAITED ON 10# BRINE. RIG UP AND PUMP<br>10# BRINE. CIRCULATED 245 BBLS @ 2.5 BBLS A MIN. POOH WITH TUBING . LAY DOWN BHA HAD 17.10' OF COIL. RIG UP GRAPPLE AND<br>BHA.  |

| Date      | Comments   |
|-----------|--|
| 5/12/2016 | HPJSM, Discuss potential hazards (Overhead and Jarring). Fishing tools in route, waiting on fishing tools. M/U Fishing assembly BHA (3-3/4" cut lip guide, 3-3/4" or intrally grapple, Upper ext., top bushing X/O to 2-3/8" IF, 3-3/4" OD Bumper jars, 3-3/4" Oil Jars, X/O to 3-3/8" PH-6 tbg, 10' Pup jnt, RN Nipple, 1 jnt 2-3/8" PH-6 tbg), 10' Pup jnt, RN Nipple, 1 jnt 2-3/8" PH-6 tbg), 10' Pup jnt, RN Nipple, 1 jnt 2-3/8" PH-6 tbg), 10' Pup jnt, RN Nipple, 1 jnt 2-3/8" IF, 3-3/4" OI Bumper jars, 3-3/4" OI Jars, X/O to 3-3/8" PH-6 tbg), 10' Pup jnt, RN Nipple, 1 jnt 2-3/8" IF, 3-3/4" OI Bumper jars, 3-3/4" OI jars, X/O to 3-3/8" PH-6 tbg), work down over fish, SW @ 55K, latch onto fish, could not dress off of latch fish, R/U the power swivel, pump 2 bpm @ 1000 psi., rotate to dress off fish, work down over fish, SW @ 55K, latch onto fish, pulled 65K and fell off, worked to latch onto fish, unable to latch onto fish. R/D power swivel, pull out of the hole will grapple, Upper ext., top bushing X/O to 2-3/8" IF, 3-3/4" OD bumper jars, 3-3/4" OI Jars, X/O to 3-3/8" PH-6 tbg, 10' upper jart, 8-3/4" or D swershot w/2" nitrally grapple, Upper ext, top bushing X/O to 2-3/8" IF, 3-3/4" OD Bumper jars, 3-3/4" OI Jars, X/O to 3-3/8" PH-6 tbg, 10' up jnt, RN Nipple, 1 jnt 2-3/8" PH-6 tbg, 10' pu jnt, NO to 2-3/8" IF, 3-3/4" OD Bumper jars, 3-3/4" OI Jars, X/O to 3-3/8" PH-6 tbg, 10' up jnt, rotate over fish w/ tongs, latch onto fish. Set down to load jars, pulled up to 85K, fell off to 80K, pulled up to 90K (35K over SW), firred jars, slacked off to load jars, pulled up to 100K, worked up to 115K, jars fired, slacked off to load jars, pulled to 130K, increase pull at 5k. L/D pup jnt, install TIW, pull 20K over SW, MIRU Wireline. Wireline tripped in the hole w/ 1" OD cutter @ 10,500', pump down cutter to 11,487' unable to go deeper, shutdown pumping, Pull wireline up to 10,500', start pumping cutter to 11,476', unable to go deeper, shut down pump. No fish. Trip out of the hole w/ wireline. Circulate down tbg @ 3 bpm, 4000 psi (3 |
| 5/13/2016 | HPJSM, (Fall Protection and Forklift). Continue to jar on fish @ 120K to 140K, No movement of fish, MU Swivel, Release overshot from fish, RD<br>Swivel. Pull out of the hole with tbg. Laydown fishing assembly, MU BPV on tbg end, install R-nipple on 2nd jnt, Trip in the hole w/ 364 jnts 2-3/8" PH<br>-6 tbg. RU circulating hose, pump 290 bbls of freshwater down tbg, displace out 10# Brine water. Trip out of the hole laying down 364 jnts 0-3/8"<br>tbg. (occasional fluid/gas release, but no flow). RDMO laydown equipment, pump, reverse open top tank, load out equipment, pre for release.   |
| 5/14/2016 | HPJSM, (Health, Remaining Hydrated). RDMO Pulling and snubbing units, Mud mixing equipment, fishing tools and laydown equipment and<br>personnel. Nipple up and test frac stack (250/10,000 psi, all good) RDMO, nipple up crew and tester. MIRU flow back equipment (Sand trap, 3 phase<br>Test Seperator, Flare Stack, Test Choke manifold). Open well to test manifold, 1000 psi. Start flow back testing.  |
| 5/15/2016 | HPJSM, (Flowback, pressure & gas). Shut in well, monitor pressure for build, pressured up to 800 psi. Open well, flow back.  |
| 5/16/2016 | HPJSM, (Flowback, pressure & gas). Flow Back. Nipple down Frac Stack valves, MIRU Eagle Completions pulling unit, set pipe racks, load 2-7/8"<br>tbg on racks. MIRU Dominion Wireline.<br>Trip in and out of the hole @ 10,900' with gauge ring. MU and trip with Weatherford Packer with Magnum Disk to 10,849', Set packer, weight test<br>(good), Trip out of the hole. Bleed down well to zero, Nipple down Frac Stack master valve and nipple up 5K Frac Stack BOPE. Secure well. Monitor.<br>No rig activity, Prepare to run Liberty Gas Lift and Production tubing.   |
| 5/17/2016 | HPJSM, (picking up tbg, pressure). MIRU Liberty Gas Lift, MU on/off tool, install gas lift system in 2-7/8" production tubing at 2160.62', 3535.57', 4357.27', 4884.68', 5444.39', 6003.78', 6562.56', 7089.10', 7648.95', 8207.34', 8766.07', 9324.93', 9851.30', 10,410.24', 10,772.06'. Production tubing run schedule: 2-7/8" tbg Hanger, 1 jnt 2-7/8" tbg, 1-0' pup jnt 2-7/8" tbg, 0.1 @ 4884.68', 17 jnts 2-7/8" tbg, GL @ 2535.57', 25 jnts 2-7/8" tbg, GL @ 4357.27', 16 jnts 2-7/8" tbg, GL @ 4884.68', 17 jnts 2-7/8" tbg, GL @ 2535.57', 25 jnts 2-7/8" tbg, GL @ 4357.27', 16 jnts 2-7/8" tbg, GL @ 4884.68', 17 jnts 2-7/8" tbg, GL @ 5444.39', 17 jnts 2-7/8" tbg, GL @ 6355.57', 25 jnts 2-7/8" tbg, GL @ 4557.27', 16 jnts 2-7/8" tbg, GL @ 10,772.06'. Coll & 6484.68', 17 jnts 2-7/8" tbg, GL @ 5444.39', 17 jnts 2-7/8" tbg, GL @ 603.78', 17 jnts 2-7/8" tbg, GL @ 6562.56', 16 jnts 2-7/8" tbg, GL @ 7089.10', 17 jnts 2-7/8" tbg, GL @ 5444.39', 17 jnts 2-7/8" tbg, GL @ 10,772.06'. jnts 2-7/8" tbg, GL @ 9324.93', 16 jnts 2-7/8" tbg, GL @ 9851.30', 17 jnts 2-7/8" tbg, GL @ 10,772.06'. jnts 2-7/8" tbg,  |
| 5/18/2016 | HPJSM, (lightning and weather). Kill truck in route to location. MIRU Lucky Well Service Kill Truck, Rig up to Well, open valves, slowly build<br>pressure, burst disk @ 2700 psi, pump 2 bbls freshwater, shut down, shut in pressure @ 500 psi, secure well, RDMO kill truck. Release non-<br>essential equipment, MIRU frac tanks for flow back operations, rig up flow back equipment.<br>Open well for flow back, 800 psi.  |



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| Field Name Lease Nam |       |                    | me Well No. |              | II No.         | API No.   |         | Version    | Version Tag |  |             |         |
|----------------------|-------|--------------------|-------------|--------------|----------------|-----------|---------|------------|-------------|--|-------------|---------|
| Lennox Lennox 32     |       | State              | 4H          |              | 30025412700000 |           | 1       | com        | ompleted    |  |             |         |
| Section              | Tow   | nship/Block        | ĸ           | Range/Survey |                | County    | / State |            | GL (ft) KB  |  | KB (ft)     |         |
| 32                   | 22S   |                    |             | 35E          |                | Lea       |         | New Mexico |             |  | 3,456.0     | 3,476.0 |
| Target N (-S) (ft)   |       | Target E (-W) (ft) |             | Latitude     |                | Longitude |         | Operator   |             |  | Well Status |         |
| 0                    |       | 0                  |             |              |                |           |         | Caza Oil a | nd Gas, Inc |  | Completed   |         |
| Additional Inform    | natio | n                  |             |              |                |           |         |            |             |  |             |         |

| Measured Depth (ft) | Inclination (deg) | Azimuth (deg)  | TVD (ft)           | Vertical Section (ft) | Coordinate N (-S)<br>(ft) | Coordinate E (-W)<br>(ft) | DLS (deg/100 ft) |
|---------------------|-------------------|----------------|--------------------|-----------------------|---------------------------|---------------------------|------------------|
| 0.0                 | 0.0               | 0.0            | 0.0                | 0.0                   | 0.0                       | 0.0                       | 0.0              |
| 100.0               | 0.6               | 85.2           | 100.0              | 0.0                   | 0.0                       | 0.6                       | 0.6              |
| 200.0               | 0.5               | 92.2           | 200.0              | 0.1                   | 0.1                       | 1.6                       | 0.1              |
| 300.0               | 0.5               | 92.2           | 300.0              | 0.0                   | 0.0                       | 2.5                       | 0.0              |
| 400.0               | 0.6               | 98.3           | 400.0              | -0.1                  | -0.1                      | 3.5                       | 0.1              |
| 500.0               | 0.7               | 99.9           | 500.0              | -0.2                  | -0.2                      | 4.6                       | 0.0              |
| 600.0               | 0.8               | 103.3          | 600.0              | -0.5                  | -0.5                      | 5.9                       | 0.1              |
| 700.0               | 0.5               | 105.9          | 700.0              | -0.8                  | -0.8                      | 7.0                       | 0.3              |
| 800.0               | 0.3               | 110.0          | 800.0              | -1.0                  | -1.0                      | 7.6                       | 0.2              |
| 900.0               | 0.2<br>0.1        | 133.7<br>48.3  | 900.0              | -1.2<br>-1.2          | -1.2<br>-1.2              | 8.0                       | 0.1              |
| 1,000.0<br>1,100.0  | 0.1               | 48.3           | 1,000.0            |                       |                           | 8.1<br>8.2                | 0.1              |
| 1,200.0             | 0.2               | 19.2           | 1,100.0<br>1,200.0 | -1.0<br>-0.9          | -1.0<br>-0.9              | 8.4                       | 0.1              |
| 1,200.0             | 0.1               | 163.8          | 1,300.0            | -0.9                  | -0.9                      | 8.6                       | 0.1              |
| 1,400.0             | 0.1               | 239.3          | 1,400.0            | -1.1                  | -1.1                      | 8.6                       | 0.1              |
| 1,500.0             | 0.2               | 275.5          | 1,500.0            | -1.2                  | -1.2                      | 8.3                       | 0.1              |
| 1,600.0             | 0.2               | 329.4          | 1,600.0            | -1.0                  | -1.0                      | 8.1                       | 0.2              |
| 1,700.0             | 0.3               | 21.3           | 1,700.0            | -0.6                  | -0.6                      | 8.0                       | 0.2              |
| 1,800.0             | 0.2               | 152.7          | 1,800.0            | -0.5                  | -0.5                      | 8.2                       | 0.4              |
| 1,900.0             | 0.2               | 16.6           | 1,900.0            | -0.5                  | -0.5                      | 8.4                       | 0.4              |
| 2,000.0             | 0.2               | 47.4           | 2,000.0            | -0.2                  | -0.2                      | 8.5                       | 0.1              |
| 2,100.0             | 0.1               | 200.9          | 2,100.0            | -0.2                  | -0.2                      | 8.6                       | 0.2              |
| 2,200.0             | 0.0               | 232.7          | 2,200.0            | -0.2                  | -0.2                      | 8.6                       | 0.0              |
| 2,300.0             | 0.2               | 333.2          | 2,300.0            | -0.1                  | -0.1                      | 8.5                       | 0.               |
| 2,400.0             | 0.1               | 220.3          | 2,400.0            | -0.1                  | -0.1                      | 8.4                       | 0.               |
| 2,500.0             | 0.2               | 196.4          | 2,500.0            | -0.3                  | -0.3                      | 8.3                       | 0.               |
| 2,600.0             | 0.1               | 275.3          | 2,600.0            | -0.5                  | -0.5                      | 8.1                       | 0.3              |
| 2,700.0             | 0.2               | 296.0          | 2,700.0            | -0.4                  | -0.4                      | 7.9                       | 0.               |
| 2,800.0             | 0.2               | 350.8          | 2,800.0            | -0.2                  | -0.2                      | 7.7                       | 0.               |
| 2,900.0             | 0.1               | 39.8           | 2,900.0            | 0.1                   | 0.1                       | 7.7                       | 0.               |
| 3,000.0             | 0.1               | 231.8          | 3,000.0            | 0.1                   | 0.1                       | 7.7                       | 0.1              |
| 3,100.0             | 0.2               | 315.9          | 3,100.0            | 0.2                   | 0.2                       | 7.5                       | 0.3              |
| 3,200.0             | 0.1               | 319.7          | 3,200.0            | 0.3                   | 0.3                       | 7.3                       | 0.               |
| 3,300.0             | 0.2               | 355.9          | 3,300.0            | 0.5                   | 0.5                       | 7.3                       | 0.               |
| 3,400.0             | 0.1               | 21.8           | 3,400.0            | 0.7                   | 0.7                       | 7.3                       | 0.               |
| 3,500.0             | 0.2               | 289.4          | 3,500.0            | 0.9                   | 0.9                       | 7.2                       | 0.1              |
| 3,600.0             | 0.1               | 182.5          | 3,600.0            | 0.9                   | 0.9                       | 7.1                       | 0.1              |
| 3,700.0             | 0.2               | 40.1           | 3,700.0            | 1.0                   | 1.0                       | 7.2                       | 0.3              |
| 3,800.0             | 0.2               | 335.2          | 3,800.0            | 1.3                   | 1.3                       | 7.2                       | 0.1              |
| 3,900.0<br>4,000.0  | 0.2<br>0.2        | 332.5<br>348.6 | 3,899.9<br>3,999.9 | 1.6                   | 1.6<br>1.9                | 7.1                       | 0.0<br>0.0       |
| 4,100.0             | 0.2               | 60.5           | 4,099.9            | 1.9<br>2.1            | 2.1                       | 7.0<br>7.1                | 0.1              |
| 4,200.0             | 0.2               | 233.7          | 4,199.9            | 2.1                   | 2.1                       | 7.1                       | 0.1              |
| 4,300.0             | 0.2               | 275.8          | 4,299.9            | 2.1                   | 2.1                       | 6.9                       | 0.               |
| 4,400.0             | 0.2               | 285.3          | 4,399.9            | 2.1                   | 2.1                       | 6.6                       | 0.0              |
| 4,500.0             | 0.3               | 240.4          | 4,499.9            | 2.0                   | 2.0                       | 6.2                       | 0.               |
| 4,600.0             | 0.2               | 249.9          | 4,599.9            | 1.9                   | 1.9                       | 5.9                       | 0.               |
| 4,700.0             | 0.2               | 333.6          | 4,699.9            | 2.0                   | 2.0                       | 5.7                       | 0.1              |
| 4,800.0             | 0.2               | 346.6          | 4,799.9            | 2.3                   | 2.3                       | 5.6                       | 0.               |
| 4,900.0             | 0.2               | 82.0           | 4,899.9            | 2.5                   | 2.5                       | 5.7                       | 0.1              |
| 5,000.0             | 0.1               | 227.6          | 4,999.9            | 2.5                   | 2.5                       | 5.8                       | 0.1              |
| 5,100.0             | 0.2               | 251.8          | 5,099.9            | 2.3                   | 2.3                       | 5.5                       | 0.               |
| 5,200.0             | 0.2               | 150.9          | 5,199.9            | 2.1                   | 2.1                       | 5.4                       | 0.               |
| 5,300.0             | 0.2               | 136.4          | 5,299.9            | 1.8                   | 1.8                       | 5.6                       | 0.               |
| 5,400.0             | 0.2               | 171.7          | 5,399.9            | 1.6                   | 1.6                       | 5.7                       | 0.               |
| 5,500.0             | 0.2               | 224.0          | 5,499.9            | 1.3                   | 1.3                       |                           | 0.               |
| Www.WellShado       |                   | 224.0          | 0,199.9            | 1.5                   | 1.5                       |                           | Page 17 of 19    |

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| Measured Depth (ft) | Inclination (deg) | Azimuth (deg) | TVD (ft) | Vertical Section (ft) | Coordinate N (-S)<br>(ft) | Coordinate E (-W)<br>(ft) | DLS (deg/100 ft) |
|---------------------|-------------------|---------------|----------|-----------------------|---------------------------|---------------------------|------------------|
| 5,600.0             | 0.2               | 293.9         | 5,599.9  | 1.3                   | 1.3                       | 5.4                       | 0.18             |
| 5,700.0             | 0.2               | 298.8         | 5,699.9  | 1.4                   | 1.4                       | 5.2                       | 0.04             |
| 5,800.0             | 0.2               | 330.2         | 5,799.9  | 1.6                   | 1.6                       | 4.9                       | 0.10             |
| 5,900.0             | 0.1               | 221.7         | 5,899.9  | 1.7                   | 1.7                       | 4.8                       | 0.25             |
| 6,000.0             | 0.4               | 121.3         | 5,999.9  | 1.4                   | 1.4                       | 5.0                       | 0.47             |
| 6,100.0             | 0.3               | 101.4         | 6,099.9  | 1.2                   | 1.2                       | 5.6                       | 0.16             |
| 6,200.0             | 0.2               | 356.6         | 6,199.9  | 1.2                   | 1.2                       | 5.9                       | 0.40             |
| 6,300.0             | 0.2               | 244.3         | 6,299.9  | 1.3                   | 1.3                       | 5.7                       | 0.29             |
| 6,400.0             | 0.7               | 46.8          | 6,399.9  | 1.6                   | 1.6                       | 6.0                       | 0.85             |
| 6,500.0             | 0.3               | 29.6          | 6,499.9  | 2.2                   | 2.2                       | 6.6                       | 0.38             |
| 6,600.0             | 0.8               | 358.6         | 6,599.9  | 3.2                   | 3.2                       | 6.7                       | 0.55             |
| 6,700.0             | 0.7               | 26.1          | 6,699.9  | 4.4                   | 4.4                       | 6.9                       | 0.37             |
| 6,800.0             | 0.8               | 33.9          | 6,799.9  | 5.6                   | 5.6                       | 7.6                       | 0.13             |
| 6,900.0             | 0.6               | 43.1          | 6,899.9  | 6.5                   | 6.5                       | 8.4                       | 0.25             |
| 7,000.0             | 0.6               | 46.9          | 6,999.9  | 7.3                   | 7.3                       | 9.1                       | 0.04             |
|                     |                   |               |          |                       |                           |                           |                  |
| 7,100.0             | 0.7               | 50.9          | 7,099.9  | 8.0                   | 8.0                       | 9.9                       | 0.15             |
| 7,200.0             | 0.8               | 23.4          | 7,199.9  | 9.0                   | 9.0                       | 10.7                      | 0.36             |
| 7,300.0             | 0.5               | 16.0          | 7,299.9  | 10.1                  | 10.1                      | 11.1                      | 0.26             |
| 7,400.0             | 0.4               | 66.3          | 7,399.9  | 10.7                  | 10.7                      | 11.6                      | 0.42             |
| 7,500.0             | 0.7               | 55.3          | 7,499.9  | 11.2                  | 11.2                      | 12.4                      | 0.25             |
| 7,600.0             | 0.7               | 52.3          | 7,599.9  | 11.9                  | 11.9                      | 13.4                      | 0.06             |
| 7,700.0             | 0.9               | 59.2          | 7,699.9  | 12.7                  | 12.7                      | 14.5                      | 0.18             |
| 7,800.0             | 0.6               | 59.4          | 7,799.8  | 13.3                  | 13.3                      | 15.6                      | 0.30             |
| 7,900.0             | 0.7               | 79.7          | 7,899.8  | 13.7                  | 13.7                      | 16.7                      | 0.28             |
| 8,000.0             | 0.7               | 80.5          | 7,999.8  | 13.9                  | 13.9                      | 17.9                      | 0.08             |
| 8,100.0             | 0.5               | 94.6          | 8,099.8  | 13.9                  | 13.9                      | 18.9                      | 0.18             |
| 8,200.0             | 0.7               | 102.3         | 8,199.8  | 13.8                  | 13.8                      | 20.0                      | 0.19             |
| 8,300.0             | 0.9               | 102.5         | 8,299.8  | 13.4                  | 13.4                      | 20.0                      | 0.19             |
|                     |                   |               |          |                       |                           |                           |                  |
| 8,400.0             | 0.9               | 109.8         | 8,399.8  | 12.9                  | 12.9                      | 22.8                      | 0.06             |
| 8,500.0             | 1.5               | 111.6         | 8,499.8  | 12.1                  | 12.1                      | 24.8                      | 0.56             |
| 8,600.0             | 1.1               | 113.6         | 8,599.7  | 11.3                  | 11.3                      | 26.8                      | 0.40             |
| 8,700.0             | 2.0               | 118.2         | 8,699.7  | 10.1                  | 10.1                      | 29.3                      | 0.95             |
| 8,800.0             | 1.5               | 118.3         | 8,799.7  | 8.6                   | 8.6                       | 32.0                      | 0.50             |
| 8,900.0             | 1.9               | 120.7         | 8,899.6  | 7.1                   | 7.1                       | 34.6                      | 0.36             |
| 9,000.0             | 1.8               | 132.2         | 8,999.6  | 5.3                   | 5.3                       | 37.1                      | 0.39             |
| 9,100.0             | 1.4               | 127.1         | 9,099.5  | 3.5                   | 3.5                       | 39.2                      | 0.42             |
| 9,200.0             | 0.6               | 95.6          | 9,199.5  | 2.8                   | 2.8                       | 40.6                      | 0.93             |
| 9,300.0             | 0.3               | 166.9         | 9,299.5  | 2.5                   | 2.5                       | 41.2                      | 0.53             |
| 9,400.0             | 0.2               | 259.0         | 9,399.5  | 2.2                   | 2.2                       | 41.0                      | 0.35             |
| 9,500.0             | 0.2               | 8.5           | 9,499.5  | 2.3                   | 2.3                       | 40.8                      | 0.32             |
| 9,600.0             | 0.2               | 85.4          | 9,599.5  | 2.5                   | 2.5                       | 41.0                      | 0.21             |
| 9,700.0             | 0.2               | 183.6         | 9,699.5  | 2.3                   | 2.3                       | 41.1                      | 0.31             |
| 9,800.0             | 0.2               | 215.7         | 9,799.5  | 2.0                   | 2.0                       | 41.0                      | 0.13             |
| 9,900.0             | 0.2               | 312.9         | 9,899.5  | 2.0                   | 2.0                       | 40.8                      | 0.26             |
| 10,000.0            | 0.2               | 36.1          | 9,999.5  | 2.3                   | 2.0                       | 40.8                      |                  |
|                     |                   |               |          |                       |                           |                           | 0.31             |
| 10,100.0            | 0.3               | 85.9          | 10,099.5 | 2.5                   | 2.5                       | 41.3                      | 0.25             |
| 10,200.0            | 0.3               | 156.7         | 10,199.5 | 2.2                   | 2.2                       | 41.7                      | 0.38             |
| 10,300.0            | 0.2               | 178.9         | 10,299.5 | 1.8                   | 1.8                       | 41.8                      | 0.14             |
| 10,400.0            | 0.5               | 256.2         | 10,399.5 | 1.5                   | 1.5                       | 41.4                      | 0.46             |
| 10,490.0            | 0.1               | 347.8         | 10,489.5 | 1.5                   | 1.5                       | 41.0                      | 0.52             |
| 10,603.0            | 8.6               | 358.5         | 10,602.1 | 10.0                  | 10.0                      | 40.8                      | 7.52             |
| 10,634.0            | 9.5               | 359.6         | 10,632.7 | 14.9                  | 14.9                      | 40.7                      | 2.96             |
| 10,666.0            | 10.9              | 360.0         | 10,664.2 | 20.6                  | 20.6                      | 40.7                      | 4.38             |
| 10,698.0            | 13.9              | 1.6           | 10,695.4 | 27.4                  | 27.4                      | 40.8                      | 9.44             |
| 10,729.0            | 16.8              | 0.6           | 10,725.3 | 35.7                  | 35.7                      | 41.0                      | 9.39             |
| 10,761.0            | 19.5              | 359.7         | 10,755.7 | 45.6                  | 45.6                      | 41.0                      | 8.48             |
| 10,793.0            | 22.0              | 355.3         | 10,785.7 | 56.9                  | 56.9                      | 40.5                      | 9.20             |
| 10,824.0            | 23.8              | 355.3         | 10,814.2 | 69.0                  | 69.0                      | 39.5                      | 5.81             |
| 10,824.0            | 26.2              | 356.9         | 10,843.2 | 82.4                  | 82.4                      | 38.6                      | 7.79             |
|                     |                   |               |          | 02.4                  |                           |                           |                  |
| 10,888.0            | 28.7              | 359.5         | 10,871.6 | 97.2                  | 97.2                      | 38.1                      | 8.66             |
| 10,919.0            | 30.6              | 2.5           | 10,898.5 | 112.5                 | 112.5                     | 38.4                      | 7.78             |
| 10,951.0            | 33.1              | 3.1           | 10,925.7 | 129.4                 | 129.4                     | 39.2                      | 7.87             |
| 10,983.0            | 35.4              | 3.0           | 10,952.2 | 147.4                 | 147.4                     | 40.2                      | 7.19             |
| 11,014.0            | 37.6              | 2.5           | 10,977.1 | 165.8                 | 165.8                     | 41.1                      | 7.16             |
|                     |                   |               |          |                       | 185.9                     | 41.8                      |                  |
| 11,046.0            | 40.6              | 2.0           | 11,001.9 | 185.9                 | 105.9                     | 41.0                      | 9.43             |

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| leasured Depth (ft) | Inclination (deg) | Azimuth (deg) | TVD (ft) | Vertical Section (ft) | Coordinate N (-S)<br>(ft) | Coordinate E (-W)<br>(ft) | DLS (deg/100 ft |
|---------------------|-------------------|---------------|----------|-----------------------|---------------------------|---------------------------|-----------------|
| 11,109.0            | 45.8              | 0.9           | 11,047.7 | 229.2                 | 229.2                     | 42.7                      | 6.              |
| 11,141.0            | 48.3              | 0.1           | 11,069.5 | 252.6                 | 252.6                     | 42.9                      | 8.              |
| 11,173.0            | 50.8              | 359.4         | 11,090.2 | 277.0                 | 277.0                     | 42.8                      | 7.              |
| 11,204.0            | 53.8              | 359.5         | 11,109.2 | 301.5                 | 301.5                     | 42.6                      | 9.              |
| 11,236.0            | 56.7              | 359.7         | 11,127.4 | 327.8                 | 327.8                     | 42.4                      | 9.              |
| 11,263.0            | 59.6              | 359.7         | 11,141.7 | 350.7                 | 350.7                     | 42.3                      | 10.             |
| 11,295.0            | 62.2              | 359.4         | 11,157.2 | 378.7                 | 378.7                     | 42.1                      | 8.              |
| 11,327.0            | 64.6              | 358.9         | 11,171.6 | 407.3                 | 407.3                     | 41.6                      | 7.              |
| 11,358.0            | 67.5              | 358.6         | 11,184.1 | 435.6                 | 435.6                     | 41.0                      | 9.              |
| 11,390.0            | 70.2              | 358.7         | 11,195.7 | 465.5                 | 465.5                     | 40.3                      | 8               |
| 11,422.0            | 73.7              | 358.6         | 11,205.6 | 495.9                 | 495.9                     | 39.6                      | 10              |
| 11,454.0            | 76.5              | 358.2         | 11,213.8 | 526.8                 | 526.8                     | 38.7                      | 8               |
| 11,485.0            | 79.9              | 357.8         | 11,220.2 | 557.1                 | 557.1                     | 37.7                      | 11              |
| 11,580.0            | 89.2              | 356.7         | 11,229.2 | 651.5                 | 651.5                     | 33.1                      | 9               |
| 11,675.0            | 90.9              | 357.3         | 11,229.1 | 746.3                 | 746.3                     | 28.2                      | 1               |
| 11,770.0            | 92.1              | 357.4         | 11,226.6 | 841.2                 | 841.2                     | 23.8                      | 1               |
| 11,865.0            | 91.3              | 359.9         | 11,223.8 | 936.1                 | 936.1                     | 21.5                      | 2               |
| 11,959.0            | 89.3              | 360.0         | 11,223.3 | 1,030.1               | 1,030.1                   | 21.5                      | 2               |
| 12,055.0            | 90.1              | 0.1           | 11,223.8 | 1,030.1               | 1,126.1                   | 21.5                      | 4               |
| 12,055.0            | 89.3              | 359.6         | 11,223.8 | 1,120.1               | 1,120.1                   | 21.3                      | (               |
| 12,150.0            | 90.6              | 359.6         | 11,224.3 | 1,221.1               | 1,221.1                   | 21.3                      | 1               |
| 12,340.0            | 89.9              | 359.0         | 11,224.4 | 1,510.1               | 1,310.1                   | 19.5                      |                 |
|                     |                   |               |          |                       |                           |                           | (               |
| 12,435.0            | 91.3              | 358.7         | 11,223.0 | 1,506.1               | 1,506.1                   | 17.6                      |                 |
| 12,530.0            | 89.7              | 359.0         | 11,222.1 | 1,601.0               | 1,601.0                   | 15.7                      | 1               |
| 12,625.0            | 88.1              | 359.3         | 11,224.0 | 1,696.0               | 1,696.0                   | 14.2                      |                 |
| 12,720.0            | 89.4              | 359.7         | 11,226.0 | 1,791.0               | 1,791.0                   | 13.4                      |                 |
| 12,815.0            | 90.9              | 359.9         | 11,225.8 | 1,886.0               | 1,886.0                   | 13.1                      | 1               |
| 12,911.0            | 89.4              | 359.1         | 11,225.5 | 1,982.0               | 1,982.0                   | 12.2                      | 1               |
| 13,006.0            | 90.7              | 359.2         | 11,225.5 | 2,077.0               | 2,077.0                   | 10.8                      | i i             |
| 13,101.0            | 89.4              | 358.4         | 11,225.4 | 2,171.9               | 2,171.9                   | 8.8                       |                 |
| 13,196.0            | 88.0              | 357.2         | 11,227.5 | 2,266.8               | 2,266.8                   | 5.2                       | 1               |
| 13,291.0            | 89.2              | 357.4         | 11,229.8 | 2,361.7               | 2,361.7                   | 0.7                       | 1               |
| 13,386.0            | 90.5              | 357.9         | 11,230.1 | 2,456.6               | 2,456.6                   | -3.2                      | 1               |
| 13,481.0            | 89.0              | 357.5         | 11,230.5 | 2,551.5               | 2,551.5                   | -7.0                      | 1               |
| 13,576.0            | 90.2              | 357.9         | 11,231.2 | 2,646.5               | 2,646.5                   | -10.8                     | 1               |
| 13,672.0            | 91.6              | 358.0         | 11,229.7 | 2,742.4               | 2,742.4                   | -14.2                     | 1               |
| 13,767.0            | 90.1              | 358.8         | 11,228.3 | 2,837.3               | 2,837.3                   | -16.9                     |                 |
| 13,862.0            | 91.3              | 359.6         | 11,227.1 | 2,932.3               | 2,932.3                   | -18.2                     | 1               |
| 13,958.0            | 89.5              | 359.2         | 11,226.4 | 3,028.3               | 3,028.3                   | -19.2                     | 1               |
| 14,053.0            | 90.5              | 359.0         | 11,226.4 | 3,123.3               | 3,123.3                   | -20.7                     | 1               |
| 14,148.0            | 88.6              | 358.9         | 11,227.2 | 3,218.3               | 3,218.3                   | -22.4                     | 2               |
| 14,243.0            | 89.5              | 359.1         | 11,228.7 | 3,313.2               | 3,313.2                   | -24.1                     | (               |
| 14,338.0            | 91.1              | 359.6         | 11,228.2 | 3,408.2               | 3,408.2                   | -25.2                     | 1               |
| 14,433.0            | 89.4              | 359.5         | 11,227.8 | 3,503.2               | 3,503.2                   | -25.9                     | 1               |
| 14,529.0            | 90.5              | 359.8         | 11,227.9 | 3,599.2               | 3,599.2                   | -26.5                     | 1               |
| 14,624.0            | 88.6              | 359.4         | 11,228.7 | 3,694.2               | 3,694.2                   | -27.2                     | 2               |
| 14,719.0            | 89.5              | 359.5         | 11,230.2 | 3,789.2               | 3,789.2                   | -28.1                     | (               |
| 14,813.0            | 90.9              | 359.8         | 11,229.9 | 3,883.2               | 3,883.2                   | -28.7                     | 1               |
| 14,908.0            | 88.8              | 358.7         | 11,230.2 | 3,978.2               | 3,978.2                   | -29.9                     | 2               |
| 15,003.0            | 90.0              | 358.7         | 11,231.2 | 4,073.1               | 4,073.1                   | -32.1                     | 1               |
| 15,098.0            | 88.9              | 358.6         | 11,232.1 | 4,168.1               | 4,168.1                   | -34.3                     | 1               |
| 15,193.0            | 90.0              | 358.7         | 11,233.0 | 4,263.1               | 4,263.1                   | -36.5                     | 1               |
| 15,289.0            | 91.4              | 358.9         | 11,231.8 | 4,359.0               | 4,359.0                   | -38.5                     | 1               |
| 15,384.0            | 92.8              | 359.7         | 11,228.3 | 4,454.0               | 4,454.0                   | -39.7                     | 1               |
| 15,479.0            | 94.1              | 359.7         | 11,222.6 | 4,548.8               | 4,548.8                   | -40.2                     | 1               |
| 15,545.0            | 94.1              | 359.7         | 11,217.9 | 4,614.6               | 4,614.6                   | -40.5                     | (               |