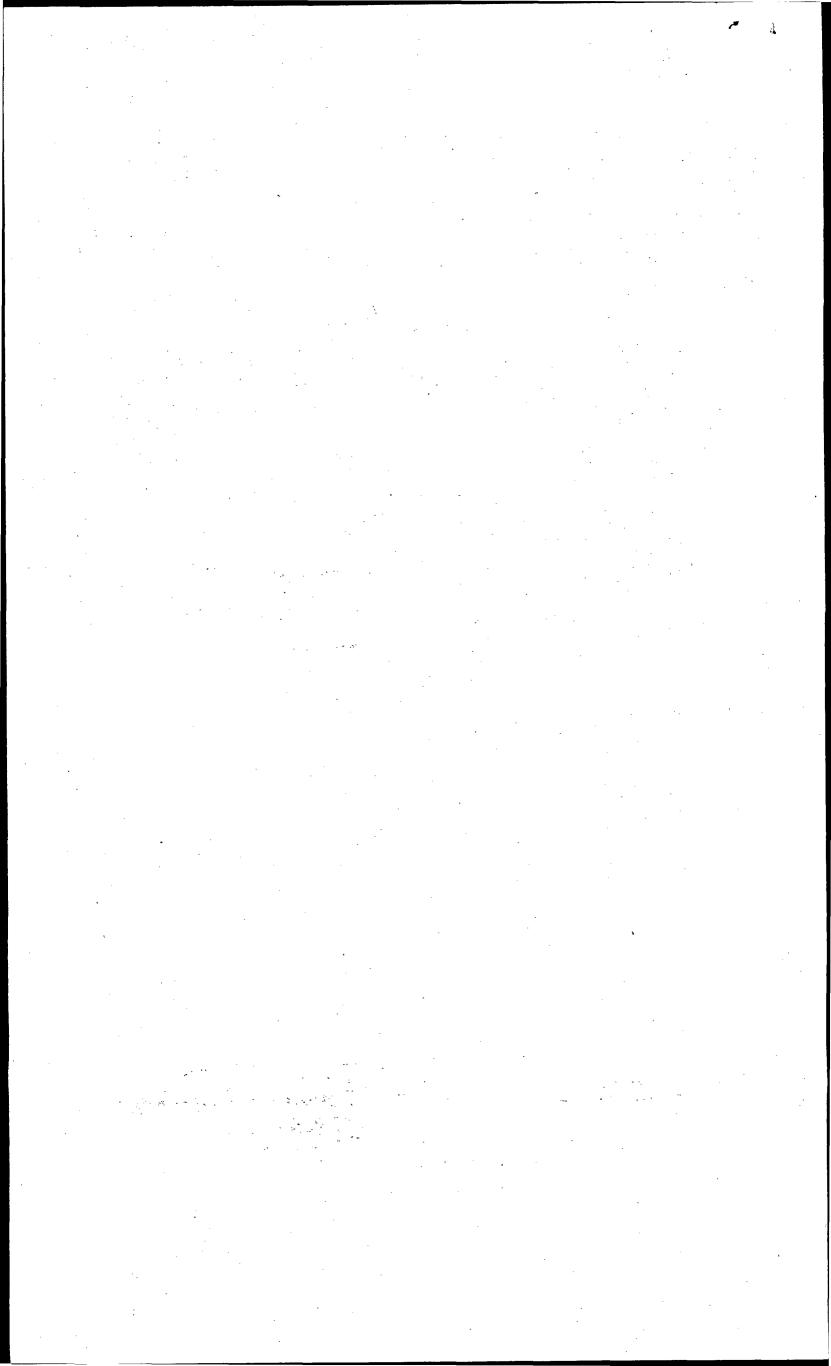
District I 1625 N. French Dr., Hobbs, NM 88240

State of New Mexico

Form C-104

Revised August 1, 2011 Energy, Minerals & Natural Resources District II 811 S. First St., Artesia, NM 88210 Submit one copy to appropriate District Office District III Oil Conservation Division 1000 Rio Brazos Rd., Aztec, NM 87410 1220 South St. Francis Dr. ☐ AMENDED REPORT District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT Operator name and Address ² OGRID Number MATADOR PRODUCTION COMPANY 228937 Reason for Filing Code/ Effective Date NW 5400 LBJ FREEWAY, STE. 1500, DALLAS, TX 75240 ⁴ API Number Pool Name **Pool Code** 30 - 015-43477 Purple Sage; Wolfcamp (Gas) 98220 Property Code 315284 Well Number 223H Property Name JIMMY KONE 05 24S 28E RB II. 10 Surface Location Lot Idn Feet from the North/South Line Feet from the East/West line Ul or lot no. | Section | Township Range County 05 24S 28E 2473 320 Ε Eddy S 11 Bottom Hole Location Feet from the UL or lot no. | Section | Township Range Lot Idn North/South line Feet from the East/West line County 05 **24S** 28E 2283 S 241 W Eddy ¹² Lse Code 3 Producing Method Gas Connection C-129 Permit Number 16 C-129 Effective Date ¹⁷ C-129 Expiration Date Code Date 02/19/17 III. Oil and Gas Transporters ²⁰ O/G/W Transporter **Transporter Name OGRID** and Address 372018 LONGWOOD RB PIPELINE, LLC G 5400 LBJ FREEWAY, STE. 1500 DALLAS, TX 75240 NIN OIL CONSERVATION BRIDGER TRANSPORTATION, LLC 311333 2009 CHENAULT DR. #100 ARTESIA DISTRICT CARROLLTON, TX 75006 MAY 0 1 2017 RECEIVED IV. Well Completion Data ²¹ Spud Date 22 Ready Date 24 PBTD ²⁵ Perforations ²⁶ DHC, MC TVD: 10,349 11/28/16 02/18/17 15,227' 10,607' - 15,082' MD: 15,247 ²⁷ Hole Size ²⁸ Casing & Tubing Size 29 Depth Set 30 Sacks Cement Please see attached. V. Well Test Data 32 Gas Delivery Date 31 Date New Oil Test Date Csg. Pressure Test Length Tbg. Pressure 02/18/17 02/19/17 03/03/17 24 HRS 2900 iiO ⁸ⁱ Choke Size Water ⁰ Gas GOR Test Method 8704 582 3432 34/64 FLOWING 14955 ⁴² I hereby certify that the rules of the Oil Conservation Division have OIL CONSERVATION DIVISION been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature Appro your Printed name: Title:

Ava Monroe Title: Approval Date: Sr. Engineering Technician E-mail Address: amonroe@matadorresources.com Date: Phone: 04/27/17 972-371-5218



NM OIL CONSERVATION

ARTESIA DISTRICT

Form 3160-4 (August 2007) UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAR 2 3 2017

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010

| | WELL (| COMPL | ETION C | R RECO | MPLET | ION R | EPORT | EDE | (ABD | | | ase Serial N MNM1214 | | |
|---|---------------------------------|--|-----------------------------|--------------------|----------------------|---------------------|-----------------------|-------------------------------|---|--------------------------------------|--|--|-------------|---|
| la. Type of | Well 🛭 | Oil Well | ☐ Gas \ | Well | Dry 🗖 | Other | | | | ί. | 6. If | Indian, Allo | ttee or | Tribe Name |
| b. Type of | f Completion | ⊠ N Othe | | ☐ Work O | ver 🔲 | Deepen | Plug | g Back | ☐ Diff. R | esvr. | 7. Uı | nit or CA A | greeme | ent Name and No. |
| 2. Name of COG P | Operator RODUCTIO | N LLC | · E | -Mail: sdavi | Contact: is@conch | | I DAVIS | | | | | ase Name a | | II No. 1 FEDERAL COM 3H |
| 3. Address | 2208 WES | | 210 | | | 3a Ph | Phone No 1: 575-74 | o. (include 8-6946 | e area code) | ' | 9. Al | PI Well No. | | 30-015-43924 |
| 4. Location | of Well (Re | | on clearly an 29E Mer Ni | | nce with F | ederal red | quirements |)* | | | 10. F | ield and Po URPLE SA | ol, or E | Exploratory VOLFCAMP |
| At surfa | ce NENE rod interval r | 349FNL | | | | | | | | | 11. S | sec., T., R., r Area Sec | M., or 1 | Block and Survey 26S R29E Mer NMP |
| At total | Sec | : 31 T265 | R29E Mer | NMP | | | | | | | 12. County or Parish 13. State EDDY NM | | | |
| 14. Date Spudded 15. Date T.D. Reached 16. Date Completed | | | | | | | | ed Ready to P | rod. | _ | Elevations (I | OF, KE 2 GL | 3, RT, GL)* | |
| 18. Total D | epth: | i 19. | Plug Back | T.D.: | MD TVD | MD 17340 20. D | | | epth Bridge Plug Set: MD 17340 TVD 10736 | | | | | |
| 21. Type E NONE | lectric & Oth | er Mecha | nical Logs R | un (Submit c | copy of eac | h) | | | 22. Was was I Direc | well cored DST run? tional Sur | | No | ∃ Yes | (Submit analysis) (Submit analysis) (Submit analysis) |
| 23. Casing ar | nd Liner Reco | ord (Repo | rt all strings | set in well) | | | | | | | | | | |
| Hole Size | e Size Size/Grade | | Wt. (#/ft.) | Top Bot (MD) (M | | _ | Cementer Depth | enter No. of Sk Type of Co | | Slurry (BB | | Cement Top* | | Amount Pulled |
| 18.125 | | | 75.0 | | 0 414 | | | 400 | | + | | | 0 | |
| 13.500 6.750 | | 750 N80 00 P110 | 45.5 23.0 | | + | | | | 1250 1500 | | | | 0 | |
| 9.875 7.625 P110 | | | 29.7 | | 0 1001 | | | 1325 | | | | | 2580 | |
| 6.750 | 6.750 5.000 P110 | | 18.0 | 9443 | 174 | 45 | | | | | | | | |
| 24. Tubing | Record | | <u></u> | L | 1 1 | | | L | | <u> </u> | | | 1 | |
| | Depth Set (M | (D) P | acker Depth | (MD) S | ize De | pth Set (| MD) F | acker De | pth (MD) | Size | De | pth Set (MI |) [| Packer Depth (MD) |
| 2.875 | | 9561 | | | | | | | | | | | | |
| 25. Produci | | | | 1 - | | | ration Reco | | | | . | | | |
| A) | ormation WOLFC | AMP | Top 1 | 0916 | 17324 | | Perforated | Interval 10916 TC | 17324 | Size 0.4 | | 1848 | OPEN | Perf. Status |
| B) | | 7 | | 55.10 | 1,021 | | | 7370 TC | | <u> </u> | | | | R CBP |
| C) | | | | | | | | | | | \perp | | | |
| D) | racture, Treat | ment Cor | nent Sauces | Etc | | | <u> </u> | | | | _ | | | |
| | Depth Interva | | nent squeeze | ., Etc. | | | A | mount àn | d Type of M | laterial | | - | | |
| | | | 324 SEE AT | TACHED | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 20 7 1 | | · · | | | | | | | | | | | | |
| 28. Product | ion - Interval | Hours | Test | Oil | Gas | Water | Oil G | ravity | Gas | | Producti | on Method | | |
| Produced 02/17/2017 | Date 02/20/2017 | Tested 24 | Production | вві. 81.0 | мсг 1641.0 | BBL 2990 | Соп. | | | ravity | | ELECTRIC PUMP SUB-SURFACE | | |
| Choke Size 23/64 | Tbg. Press. Flwg. 3300 SI | Csg. Press. 3600.0 | 24 Hr. Rate | Oil BBL 81 | Gas MCF 1641 | Water BBL 299 | Gas:C Ratio |)il | Well S | • | | | | |
| | tion - Interva | | <u></u> | | | 1 | | | | | | | als W | " |
| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | | | | Oil Gravity Corr. API | | Gas Gravity | | Vabbion | viewe | ò0 |
| Choke Size | Tbg. Press. Flwg. | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas:O Ratio | Gas:Oil W. Pending | | | BLM approvals will B BLM be reviewed quently be reviewed scanned | | | |
| | SI | ــــِـــــــــــــــــــــــــــــــــ | | L | L | | | | | bos | co,. | | | <u> </u> |

(See Instructions and spaces for additional data on reverse side)
ELECTRONIC SUBMISSION #370323 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPER

JBMITTED **

Rup 4-7-17

| 28b. Prod | luction - Inte | rval C | | * - | | | • | | | | | |
|--|--|------------------------------|--|-------------------------------|----------------------------|--|---|--|---|--------------------|--|--|
| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method | | | |
| rroduced | . Daic | resteu | - Coduction | - | WICI | BBL | Con. AF1 | Gravity | | | | |
| Choke Size | Tbg. Press. Flwg. | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio | Well Status | | | | |
| 28c Prod | SI luction - Inter | rval D | | 1 | <u> </u> | | | | | | | |
| Date First | Test | Hours | Test | Oil | Gas | Water | Oil Gravity | Gas . | Production Method | | | |
| Produced | Date | Tested | Production | BBL | MCF | BBL | Corr. API | Gravity | <u> </u> | | | |
| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio | Well Status | | | | |
| 29. Dispo | sition of Gas | (Sold, used | l for fuel, ven | ited, etc.) | | | | _ | | | | |
| | nary of Porou | ıs Zones (I | nclude Aquif | ers): | | | | 31.1 | Formation (Log) Markers | | | |
| tests, | all importan including de ecoveries. | t zones of p pth interval | porosity and a tested, cush | contents the ion used, tir | ereof: Core ne tool ope | d intervals an en, flowing a | d all drill-stem nd shut-in pressure | s | | | | |
| | Formation | | Тор | Botton | n | Descript | tions, Contents, etc | ; . | Name | Top Meas. Depth | | |
| LAMAR BELL CANYON CHERRY CANYON BRUSHY CANYON BONE SPRING LM 1ST BONE SPRING CHARKEY 3RD BONE SPRING | | | 2734 2772 2773 3621 3622 4964 4965 6481 6482 7397 7398 8779 8780 9259 9260 9621 | | | | | | RUSTLER 8- TOP OF SALT 11 BOTTOM OF SALT 2: LAMAR 2: BELL CANYON 2: CHERRY CANYON 3: BRUSHY CANYON 4: BONE SPRING LM 66 | | | |
| , | 12 31 1 1110 | | 0200 | | | | | | DONE OF KING EM | | | |
| | | | | | 1 | | | | | | | |
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| | | 4, | | ļ | 1 | | | | | ŀ | | |
| | | | | | | | | | | | | |
| | tional remark | | | | L | | | | | | | |
| Addit | eys & perfs/ | | n are attach | ea. | | | ** | | | | | |
| vvoire | camp 9622' | | | | | | | | | | | |
| | | | | | | | × | , | | | | |
| | e enclosed att | | | | | | | | | | | |
| | ectrical/Mecl indry Notice | | | | n | Geolog Core A | - | DST Other | • | Directional Survey | | |
| J. 3u | niary Notice | ioi piuggiii | ig and centen | ii verificatio | 11 | o. Cole A | natysis | / Other | • | | | |
| 34. I here | by certify th | at the foreg | - | | | -, | | | ble records (see attached | instructions): | | |
| | | | Elec | tronic Subi Fo | mission #3 r COG PF | 70323 Verifi RODUCTIO | ed by the BLM V N LLC, sent to th | Vell Information 1e Carlsbad | System. | | | |
| Name | e(please prin | t) STORM | II DAVIS | | | | Title P | PREPARER | | | | |
| | | | | 4 | | | | | | | | |
| Signa | ture | (Electro | nic Submis | sion) | | | Date 0 | 3/20/2017 | | | | |

COPPERHEAD 31 FEDERAL COM #3H (30-015-43924)

| <u>Perfs</u> | 7 1/2% Acid (Gal) | <u>Sand (#)</u> | Fluid (Gal) |
|--------------|-------------------|-----------------|-------------|
| 1 | 1470 | 239920 | 505722 |
| 2 | 3012 | 301800 | 382692 |
| 3 | 2982 | 299930 | 366618 |
| 4 | 2940 | 303200 | 376446 |
| 5 | 3012 | 304780 | 378156 |
| 6 | 3024 | 300140 | 378084 |
| 7 | 2940 | 299550 | 373044 |
| 8 | 2982 | 293840 | 369558 |
| 9 | 3234 | 294620 | 375102 |
| 10 | 3024 | 302440 | 379092 |
| 11 | 2940 | 299690 | 369516 |
| 12 | 2940 | 300590 | 387954 |
| 13 | 3024 | 307960 | 375774 |
| 14 | 3012 | 302380 | 375216 |
| 15 | 3024 | 300750 | 374094 |
| 16 | 2940 | 300300 | 372582 |
| 17 | 2940 | 299290 | 370482 |
| 18 | 3012 | 301540 | 374754 |
| 19 | 3012 | 298730 | 378576 |
| 20 | 2970 | 300170 | 371834 |
| 21 | 2940 | 300270 | 371322 |
| 22 | 3012 | 299740 | 372696 |
| 23 | 3012 | 299750 | 372570 |
| 24 | 2982 | 292470 | 365190 |
| 25 | 2940 | 300180 | 368046 |
| 26 | 2982 | 299240 | 373044 |
| 27 | 3012 | 300710 | 394788 |
| 28 | 2940 | 300350 | 371784 |
| 29 | 3024 | 300470 | 372918 |
| 30 | 3024 | 294650 | 363216 |
| 31 | 3024 | 303070 | 371910 |
| 32 | 3024 | 302610 | 370944 |
| 33 | 3024 | 304490 | 371910 |
| 34 | 3024 | 298280 | 372582 |
| 35 | 3024 | 296470 | 366744 |
| 36 | 3024 | 300600 | 363342 |
| 37 | 3012 | 305720 | 372948 |
| 38 | 3024 | 303530 | 374430 |
| 39 | 3024 | 300330 | 361746 |
| 40 | 3024 | 298520 | 363846 |
| 41 | 3024 | 300600 | 360780 |
| 42 | 3024 | 301990 | 377202 |
| Totals | 124,576 | 12,555,660 | 15,789,252 |

| •, | | | | | | | | | | | | | | | |
|---------------------------------------|--|--|--|--|--|---|--|---|--|--|--|---|--|---|--|
| 4) | [··· | Distance | | | Distance | | | Distance | | · · · · · | Distance | | ····· | Distance | |
| | Stage*1 | Between | Shots | Stage 2 | Between | Shots | Stage 3 | Between | Shots | Stage 4 | Between | Shots | Stage 5 | Between | Shots |
| ì | CONSTRUCTION OF THE PARTY OF TH | Perfs | TOTAL WAY A PARK NO. 1 TO | 377 477 400 (553 | Perfs | contact reasonable char | *************************************** | Perfs_ | 550 YKK 12 48 TW. | 2.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Perfs | Anniel Andrews | 16,706 | Perfs | 31160 Va a #46000 |
| rom | 17,324 | 42 | 14 | × 17,120 | 85 | s - 3 - 14 √ / - | 17,010 | 42 | 14 | 16,855 | 43 | 14 | *************************************** | 36 | 14 |
| ottom to | 17,282 | 39 | 12. | 17,100 | 7 | 12 | 16,975 | 38 | 12 | 16,821 | 38 | 12 | 16,668 | 38 | 12 |
| Гор | 17,243 | 38 | - 10 | 17,093 | 41 | 10 | 16,937 | 39 | 10 | 16,783 | 41 | 10**/ | 16,630 | 39 | 10 |
| | 17,205 | | 8 | 17,052 | | 8 | 16,898 | | 8 | 16,742 | | 8 | 16,591 | | 8 // |
| ļ | BI BI | 135 | KARLEY COM | Object Discount of the Control of th | 88 | A . A . 7 70 4 | | 424 | Z. (1.00 G. 2.6 | 0.45 - 1.55 - 1. | 128 | 44 | 49-44-62 | 135 | 44 |
| | Plug to Plug Frac Plug | 17,340/ | 44 Total Shots | Plug to Plug Frac Plug | *.17,140 * | 44 Total Shots | Plug to Plug Frac Plug | 134 17,032 | 44 Total Shots | Plug to Plug Frac Plug | 16,870 | Total Shots | Plug to Plug Frac Plug | 16,726 | Total Shots |
| . 1 | Hacrity | 26.01 1 1 3-40 K | Total Silots | 11do 1 lag | . syl (94 yo., | Total Silots | Truc riug | 11,002 × | TOTAL STICES | 1 rac ring | 30810,010 | Total Silots | Tracting | S. C. L. L. C. | Total Shots |
| | | Distance | | 1 | Distance | | 1 | Distance | | | Distance | | | Distance | |
| | Stage 6 | Between | Shots | Stage 7 | Between | Shots | Stage 8 | Between | Shots | Stage 9 | Between | Shots | Stage 10 | Between | Shots |
| l | | Perfs | | | Perfs | | | Perfs_ | | | Perfs | | | Perfs | |
| From | 16,553 | 38 | 14 | 16,400 | 38 | 14 | 16,246 | 39 | 14 | 16,093 | 38 | 14 | 15,941 | 34 | 14 |
| Bottom to | 16,515 | 35 | 12 | → 16,361 · | 38 | • 12 | 16,209 | 39 | 12 | ×16,055 | 39 | 12 | 15,901 | 38 | 12 |
| Тор | 16,480 | 42 | -10 | 16,323 | 38 | 10 | 16,170 | 39 | 10 | 16,016 | 41 | 10 | 15,863 | 39 | 10 - 7 |
| l | 16,438 | | 8 | 7.16,285 | | 8 | 4 16:131 | | 8 | 15,975 | | 8 | 15,824 | | . 8 |
| | | · | Contract | TALK HE | | 1201228 | 64.89A2+2 | | No. of Contract of | 4.74 × 5.67 | | 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 11 11 11 11 11 11 11 | | and the second |
| _ | Plug to Plug | 134 | 44 | Plug to Plug | 134 | 44 | Plug to Plug | 134 | 44 | Plug to Plug | 131 | 44 | Plug to Plug | 135 | 44 |
| | Frac Plug | 16,572 | Total Shots | Frac Plug | 16,419 | Total Shots | Frac Plug | 16,265 | Total Shots | Frac Plug | 16,106 | Total Shots | Frac Plug | 15,959 | Total Shots |
| | | Distance | | | Distance | | | Distance | | | Distance | | | Distance | |
| | Stage 11 | Between | Shots | Stage 12 | Between | Shots | Stage 13 | Between | Shots | Stage 14 | Between | Shots | Stage 15 | Between | Shots |
| l | | Perfs | | | Perfs | | | Perfs_ | | | Perfs | | | Perfs | |
| From | 15,780 | 44 | 14 | 15,633 | 38 | 14 | 15,479 | 39 | 14 | 15,326 | 38 | 14 | 15,173 | 38 | 14 |
| Bottom to | 15,748 | 43 | 12 | 15,594 | 38 | 12 🕠 | 15,440 | 36 | 12 | 15,288 | 39 | 12 🔭 | 15,137 | 41 | 7, 12 |
| Тор | 15,705 | 34 | 10 | 15,556 | 38 | 10 | 15,404 | 40 | 10 | 15,249 | 38 | 10 | 15,096 | 38 | 10 |
| | 15,671 | | 8 | 15,518 | | . 8 | 15,364 | | * *8 | 15,211 | | 8, 8, | 15,058 🕏 | | 8 |
| | 122 1000 | | 24724 | Marie Cara | | V. 1.7.7.7.1 | A COLUMN TO THE STATE OF THE ST | | | 7740 MA | | X AAV | 17877 XX | | 14 (1810) |
| | Plug to Plug | 121 | 44 | Plug to Plug | 134 | 44 | Plug to Plug | 135 | 44 | Plug to Plug | 132 | 44 | Plug to Plug | 134 | 44 |
| | Frac Plug | 15,792 | Total Shots | Frac Plug | ×15,652 | Total Shots | Frac Plug | 15,499 | Total Shots | Frac Plug | 15,343 | Total Shots | Frac Plug | .15,192 | Total Shots |
| | | | | - | | | | | , | | | | | T | |
| | Stage 16 | Distance | Shots | Stage 17 | Distance | Shots | Stana 10 | Distance | Shots | Storo 40 | Distance | Shots | Stage 20 | Distance | Shots |
| | Juage 16 | Between Perfs | Jilos | Judge 17 | Between Perfs | SHUCS | Stage 18 | Between Perfs | JIIUS | Stage 19 | Between Perfs | 3110 เร | Juage 20 | Between Perfs | JIIOUS |
| From | 15,019 | 39 | 147 | 14,861 | 43 | 3 14 | 14,687 | 64 | 14 | 14,559 | 42 | 14 | 14,406 | 38 | 14 |
| Bottom to | 14,981 | 39 | 12 | 14,827 | 38 | 7 12 🦟 | 14,674 | 38 | 12 | 14,521 | 39 | 12 | - /14,367 | 36 | 12 🗘 1 |
| Тор | 14,942 | 38 | 10 | 14,789 | 38 | 10 | 14,636 | 35 | 10 | 14,482 | 38 | 10 | 331 | 40 | 10 |
| • | 14,904 | | 8 | 14,751 | | 8 | 14,601 | | 8 | 14,444 | | 8 | 14,291 | | 8 |
| | Destruction of the | | Entra San San | Artes Control | | 14. 18. 3 | 1000 | | 2000 | 200 | | 100 | 7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | | MAY A |
| | Plug to Plug | 129 | 44 | Plug to Plug | 134 | 44 | Plug to Plug | 119 | 44 | Plug to Plug | 134 | 44 | Plug to Plug | 135 | 44 |
| | Frac Plug | 15,033 | Total Shots | Frac Plug | 14,885 | Total Shots | Frac Plug | 14,720 | Total Shots | Frac Plug | 14,578 | Total Shots | Frac Plug | 14,426 | Total Shots |
| | | | | | | | | | | | | | | | |
| | 21 21 | Distance | 01 | | Distance | 01-1- | | Distance | | 04 | Distance | 05-4- | 04 05 | Distance | 05-1- |
| , | Stage 21 | Between Perfs | Shots | Stage 22 | Between Perfs | Shots | Stage 23 | Between Perfs | Shots | Stage 24 | Between Perfs | Shots | Stage 25 | Between Perfs | Shots |
| From | 14,252 | 39 | 14 | 14,099 | 38 | 14 | 13,945 | 39 | 142 | 13,786 | 44 | 14 | 13,630 | 47 | 14 |
| Bottom to | 14,214 | 38 | 12 | .4,065 | 43 | 12 | 13,907 | 38 | 12 | 13,754 | 39 | 12 | 13,600 | 39 | 12 |
| Тор | 14,176 | 39 | £10 / | 14,022 | 38 | 10 % | 13,869 | 39 | 10 | 13,715 | 38 | 10 | 13,561 | 34 | 10 |
| i ' | 14,137 | | 8 | 13,984 | | 8 | 13,830 | | 8 | 13,677 | | . 8 . | 13,527 | | 8 |
| | L.V. STY | | 334 | CARATE | | 200 | J. B. St. Berlin, Sec. | | BOTH WAL | But A days . The said | | Ann S | 7/3/44/32 | | 1999 |
| | Plug to Plug | 134 | 44 | Plug to Plug | 134 | 44 | Plug to Plug | 129 | 44 | Plug to Plug | 134 | 44 | Plug to Plug | 121 | 44 |
| | Frac Plug | 14,271 | Total Shots | Frac Plug | 14,118 | Total Shots | Frac Plug | 13,959 | Total Shots | Frac Plug | 13,811 | Total Shots | Frac Plug | 13,648 | Total Shots |
| | | Distance | | | Distance | | | Distance | | | Distance | | | Distance | |
| | Stage 26 | Between | Shots | Stage 27 | Between | Shots | Stage 28 | Between | Shots | Stage 29 | Between | Shots | Stage 30 | Between | Shots |
| | | Perfs | | | Perfs | | _ | Perfs | | | Perfs | | | Perfs | |
| From | 13,485 | 42 | 14 | 13,332 | 38 | 14 | 13,179 | 38 | 14 | 13,021 | 42 | 14~ | 7 12,872 | 38 | 14 200 |
| Bottom to | | 38 | 12 | 13,294 | 37 | 12 | 2/ 13,140 | 38 | 2 12 | 12,989 | 41 | 12 | 12,833 | 38 | 💸 - /12 🔧 🐉 |
| Тор | 13,409 | 39 | ,10 | 13,257 | 40 | 10 | 13,102 | 39 | | | 38 | 10. | 12,795 | | ± 10 |
| | 13,370 | 1 | | | | | | | . 10 | 12,948 | | | | 41 | |
| | Land St. | | () , 8, 7 . | 13,217 | | - 48 | i ≥ 13,063 | | # 7×8% (c) | 12,910 | | /8 | 12,754 | 41 | * 8 |
| | | | MINERAL SECTION | 18 1 - 9 - 4 2 7 28 600 - 1 - 1 4 6 5 6 6 | | 8 | 13,063 | | 8 | 12,910 | | . 8 | 12,754 | | |
| | Plug to Plug | 134 | 44 | Plug to Plug | 134 | 44 | 13,063 Plug to Plug | 135 | 44 | 12,910 Plug to Plug | 134 | 44 | 12,754⊮ Plug to Plug | 130 | 44 |
| | Plug to Plug Frac Plug | | MINERAL SECTION | 18 1 - 9 - 4 2 7 28 600 - 1 - 1 4 6 5 6 6 | 134 | 8 | 13,063 | | 8 | 12,910 Plug to Plug | | . 8 | 12,754 Plug to Plug | | |
| | | 134 | 44 Total Shots | Plug to Plug Frac Plug | | 44 Total Shots | 13,063 Plug to Plug | 135 | 44 | 12,910 Plug to Plug | 134 | 44 Total Shots | 12,754⊮ Plug to Plug | 130 | 44 |
| | | 134 13,504 Distance Between | 44 | Plug to Plug | 13,351 Distance Between | 44 | 13,063 Plug to Plug | 135 %13,198 Distance Between | 44 | 12,910 Plug to Plug | 134 313,044 Distance Between | 44 | 12,754⊮ Plug to Plug | 130 12,884 Distance Between | 44 |
| From | Frac Plug | 134 13,504 Distance | 44 Total Shots | Plug to Plug Frac Plug | 13,351 Distance | 44 Total Shots | Plug to Plug Frac Plug | 135 ※13,198 | 8 44 Total Shots | Plug to Plug Frac Plug | 134 13,044 Distance | 44 Total Shots | 12;754 Plug to Plug Frac Plug | 130 × 12,884 | 44 Total Shots |
| | Frac Plug Stage 31 | 134 13,504 Distance Between Perfs | 44 Total Shots | Plug to Plug Frac Plug Stage 32 | 13,351 Distance Between Perfs | 44 Total Shots Shots | Plug to Plug Frac Plug Stage 33 | 135 %13,198 Distance Between Perfs | 44 Total Shots Shots | Plug to Plug Frac Plug Stage 34 | 134 13,044 Distance Between Perfs | 44 Total Shots Shots | Plug to Plug Frac Plug Stage 35 | 130 12,884 Distance Between Perfs | 44 Total Shots Shots |
| From Bottom to Top | Stage 31 | 134 13,504 Distance Between Perfs 35 | 44 Total Shots Shots 14 12 | Plug to Plug Frac Plug Stage 32 12,565 12,527 | Distance Between Perfs 38 | 44 Total Shots Shots | Plug to Plug Frac Plug Stage 33 | 135 13,198 Distance Between Perfs 38 | 844 44 Total Shots Shots | 12:910 Plug to Plug Frac Plug Stage 34 \$ 12:258 \$ 12:185 \$ 12:185 | 134 213;044 Distance Between Perfs 39 | 44 Total Shots Shots | Plug to Plug Frac Plug Stage 35 | 130 12;884 Distance Between Perfs 38 | 44 Total Shots Shots |
| Bottom to | Stage 31 | 134 13,504 Distance Between Perfs 35 38 | 44 Total Shots Shots | Plug to Plug Frac Plug Stage 32 | Distance Between Perfs 38 42 | 44 Total Shots Shots | Plug to Plug Frac Plug Stage 33 | 135 13,198 Distance Between Perfs 38 38 | 844 Total Shots Shots 14 12 10 | Plug to Plug Frac Plug Stage 34 \$12,258 | 134 13;044 Distance Between Perfs 39 33 | 44 Total Shots Shots | Plug to Plug Frac Plug Stage 35 12,105 12,066 12,028 | 130 12,884 Distance Between Perfs 38 38 | 44 Total Shots Shots |
| Bottom to | Stage 31 12:719 212:680 212:642 | 134 13,504 Distance Between Perfs 35 38 | 44 Total Shots Shots 14 12 | Plug to Plug Frac Plug Stage 32 12,565 12,527 | Distance Between Perfs 38 42 | 44 Total Shots Shots | Plug to Plug Frac Plug Stage 33 12/412 12/373 12/335 | 135 13,198 Distance Between Perfs 38 38 | 844 44 Total Shots Shots | 12:910 Plug to Plug Frac Plug Stage 34 \$ 12:258 \$ 12:185 \$ 12:185 | 134 13;044 Distance Between Perfs 39 33 | 44 Total Shots Shots | Plug to Plug Frac Plug Stage 35 12,105 12,066 | 130 #12;884 Distance Between Perfs 38 38 38 | 44 Total Shots Shots |
| Bottom to | Stage 31 12.719 12.680 12.642 12.603 Plug to Plug | 134 213,504 213,504 Distance Between Perfs 35 38 39 135 | 44 Total Shots Shots 114 112 112 114 114 114 114 114 114 114 | Plug to Plug Frac Plug Stage 32 12,565 12,485 12,450 Plug to Plug | Distance Between Perfs 38 42 35 | 44 Total Shots Shots 14 12 10 8 44 | 13/063 Plug to Plug Frac Plug Stage 33 12/412 12/373 12/336 12/297 | 135 \$13,198 Distance Between Perfs 38 38 38 | 844 Total Shots Shots 14 12 10 8 44 | 12:910 Plug to Plug Frac Plug Stage 34 12:258 12:218 12:185 12:143 Plug to Plug | 134 13,044 Distance Between Perfs 39 33 42 | 44 Total Shots Shots 14 12 410 48 44 | Plug to Plug Frac Plug Stage 35 12,105 12,086 12,028 11,990 Plug to Plug | 130 12,884 Distance Between Perfs 38 38 38 | 44 Total Shots Shots 14 10 88 |
| Bottom to | Stage 31 12.719 12.680 12.642 12.603 | 134 213,504 213,504 Distance Between Perfs 35 38 39 | 44 Total Shots Shots 14 12 88 | Plug to Plug Frac Plug Stage 32 12,565 12,485 | Distance Between Perfs 38 42 35 | 44 Total Shots Shots | 13,063 Plug to Plug Frac Plug Stage 33 12,373 12,335 12,297 | 135 \$13,198 Distance Between Perfs 38 38 38 | 844 Total Shots Shots 14 12 10 | 12:910 Plug to Plug Frac Plug Stage 34 12:258 12:218 12:185 12:143 Plug to Plug | 134 13,044 Distance Between Perfs 39 33 42 | 44 Total Shots Shots | Plug to Plug Frac Plug Stage 35 12,105 12,028 11,990 | 130 #12;884 Distance Between Perfs 38 38 38 | 44 Total Shots Shots 14 12 10 88 |
| Bottom to | Stage 31 12.719 12.680 12.642 12.603 Plug to Plug | 134 13504 13504 Distance Between Perfs 35 38 39 135 12,738 | 44 Total Shots Shots 114 112 112 114 114 114 114 114 114 114 | Plug to Plug Frac Plug Stage 32 12,565 12,485 12,450 Plug to Plug | Distance Between Perfs 38 42 35 | 44 Total Shots Shots 14 12 10 8 44 | 13/063 Plug to Plug Frac Plug Stage 33 12/412 12/373 12/336 12/297 | 135 \$413/198\$ Distance Between Perfs 38 38 38 38 | 844 Total Shots Shots 14 12 10 8 44 | 12:910 Plug to Plug Frac Plug Stage 34 12:258 12:218 12:185 12:143 Plug to Plug | 134 13;044 Distance Between Perfs 39 33 42 136 12;279 | 44 Total Shots Shots 14 12 410 48 44 | Plug to Plug Frac Plug Stage 35 12,105 12,086 12,028 11,990 Plug to Plug | 130 P12,884 Distance Between Perfs 38 38 38 38 134 | 44 Total Shots Shots 14 12 10 88 |
| Bottom to | Stage 31 12.719 12.680 12.642 12.603 Plug to Plug | 134 213,504 213,504 Distance Between Perfs 35 38 39 135 | 44 Total Shots Shots 114 112 112 114 114 114 114 114 114 114 | Plug to Plug Frac Plug Stage 32 12,565 12,485 12,450 Plug to Plug | Distance Between Perfs 38 42 35 | 44 Total Shots Shots 14 12 10 8 44 | 13/063 Plug to Plug Frac Plug Stage 33 12/412 12/373 12/336 12/297 | 135 \$13,198 Distance Between Perfs 38 38 38 | 844 Total Shots Shots 14 12 10 8 44 | 12:910 Plug to Plug Frac Plug Stage 34 12:258 12:218 12:185 12:143 Plug to Plug | 134 13,044 Distance Between Perfs 39 33 42 | 44 Total Shots Shots 14 12 410 48 44 | Plug to Plug Frac Plug Stage 35 12,105 12,086 12,028 11,990 Plug to Plug | 130 12,884 Distance Between Perfs 38 38 38 | 44 Total Shots Shots 14 12 10 88 |
| Bottom to | Stage 31 \$12.7.19 \$12.600 \$12.603 Plug to Plug Frac Plug Stage 36 | Distance Between Perfs 35 38 39 135 \$\frac{12,738}\$ Distance Between Perfs | 44 Total Shots Shots 14 12 10 10 18 44 Total Shots | Plug to Plug Frac Plug Stage 32 12,565 12,527 12,485 12,480 Plug to Plug Frac Plug Stage 37 | Distance Between Perfs 38 42 35 120 212;570 Distance Between Perfs | 44 Total Shots Shots 14 12 10 8 44 Total Shots | Plug to Plug Frac Plug Stage 33 12/412 12/373 12/297 Plug to Plug Frac Plug Stage 38 | 135 13,198 13,198 Distance Between Perfs 38 38 38 38 38 58 58 58 58 58 58 58 58 58 58 58 58 58 | 44 Total Shots Shots 14 12 10 10 44 Total Shots | Plug to Plug Frac Plug Stage 34 112,218 12,143 Plug to Plug Stage 39 | Distance Between Perfs 39 33 42 136 12,279 Distance Between Perfs | 44 Total Shots Shots 14 12 10 28 44 Total Shots | Plug to Plug Frac Plug Stage 35 12,105 12,1066 11,990 Plug to Plug Frac Plug Stage 40 | Distance Between Perfs 38 38 38 134 12,124 Distance Between Perfs | 44 Total Shots Shots 12 10 8 44 Total Shots |
| Bottom to Top | Stage 31 12.7.19 12.603 12.603 Plug to Plug Frac Plug Stage 36 11.951 | 134 \$\frac{13,504}{3,504}\$ Distance Between Perfs 35 38 39 135 \$\frac{12,738}{2,738}\$ Distance Between Perfs 39 | 44 Total Shots Shots 14 12 10 10 44 Total Shots | Plug to Plug Frac Plug Stage 32 12,585 12,527 12,485 Plug to Plug Frac Plug Stage 37 | Distance Between Perfs 38 42 35 120 \$\frac{12}{570}\$ Distance Between Perfs 38 | 44 Total Shots Shots 14 12 10 10 44 Total Shots | 13,063 Plug to Plug Frac Plug Stage 33 12,412 12,373 12,297 Plug to Plug Frac Plug Stage 38 | 135 \$13,198 Distance Between Perfs 38 38 38 134 \$12,431 Distance Between Perfs 36 36 | 44 Total Shots Shots 14 12 10 83 44 Total Shots Shots | 12:910 Plug to Plug Frac Plug Stage 34 12:258 12:185 12:185 Plug to Plug Frac Plug Stage 39 | 134 23,044 20 21,044 21 | 44 Total Shots Shots 114 44 Total Shots Shots Shots | 12:754 Plug to Plug Frac Plug Stage 35 12:006 12:008 11:990 Plug to Plug Frac Plug Stage 40 | 130 12,884 Distance Between Perfs 38 38 38 134 12,124 Distance Between Perfs 41 | 44 Total Shots Shots 14 12 10 88 44 Total Shots Shots |
| Bottom to Top From Bottom to | Frac Plug Stage 31 12.719 12.680 12.603 Plug to Plug Frac Plug Stage 36 11.951 11.909 | 134 \$\frac{13,504}{33,504}\$ Distance Between Perfs 35 38 39 135 \$\frac{12,738}{2} Distance Between Perfs 39 34 | 44 Total Shots Shots 14 12 10 44 Total Shots Shots 14 44 Total Shots | Plug to Plug Frac Plug Stage 32 12,565 12,485 12,485 12,485 12,485 12,485 12,485 11,780 Stage 37 | Distance Between Perfs 38 42 35 120 212,570 Distance Between Perfs 38 39 | 44 Total Shots Shots 14 12 10 10 44 Total Shots Shots | 13,063 Plug to Plug Frac Plug Stage 33 12,2412 12,373 12,335 12,297 Plug to Plug Frac Plug Stage 38 | 135 \$\instance\$ Between Perfs 38 38 38 134 \$\instance\$ 12,431 Distance Between Perfs 36 36 | 44 Total Shots Shots 14 Total Shots 44 Total Shots Shots Shots | 12:910 Plug to Plug Frac Plug Stage 34 512:258 112:185 12:185 12:143 Plug to Plug Frac Plug Stage 39 11:491 11:453 | 134 13,0444 Distance Between Perfs 39 33 42 136 12,279 Distance Between Perfs 39 40 | 44 Total Shots Shots 14 Total Shots 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 | Plug to Plug Frac Plug Stage 35 12:105 12:066 12:028 Plug to Plug Frac Plug Stage 40 11:338 11:300 | 130 P12,884 Distance Between Perfs 38 38 38 134 112,124 Distance Between Perfs 41 39 | 44 Total Shots Shots 14 12 10 8 44 Total Shots Shots |
| Bottom to Top | Stage 31 12.719 12.680 14.2642 12.603 Plug to Plug Frac Plug Stage 36 11.951 11.909 11.075 | 134 134 13504 Distance Between Perfs 35 38 39 135 12,738 Distance Between Perfs 39 34 39 | 44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 14 10 44 Total Shots | Plug to Plug Frac Plug Stage 32 12,565 12,527 12,485 12,450 Plug to Plug Frac Plug Stage 37 11,798 11,750 | Distance Between Perfs 38 42 35 120 \$\frac{12}{570}\$ Distance Between Perfs 38 | 44 Total Shots Shots 14 12 10 44 Total Shots Shots 44 Total Shots | 13,063 Plug to Plug Frac Plug Stage 33 12,212 12,373 12,335 12,297 Plug to Plug Frac Plug Stage 38 11,647 41,606 11,568 | 135 \$13,198 Distance Between Perfs 38 38 38 134 \$12,431 Distance Between Perfs 36 36 | 44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 14 12 10 10 10 11 10 10 10 10 10 10 10 10 10 | 12:910 Plug to Plug Frac Plug Stage 34 12:258 12:218 12:185 12:143 Plug to Plug Frac Plug Stage 39 11:491 11:453 11:413 | 134 23,044 20 21,044 21 | 44 Total Shots Shots \$\frac{14}{2} \\ 44 Total Shots 44 Total Shots Shots \$\frac{14}{3} \\ 42 \\ 10 \\ 10 \\ 10 | Plug to Plug Frac Plug Stage 35 12:105 12:066 12:028 11:990 Plug to Plug Frac Plug Stage 40 11:338 11:300 11:261 | 130 12,884 Distance Between Perfs 38 38 38 134 12,124 Distance Between Perfs 41 | 44 Total Shots Shots 14 12 10 44 Total Shots 44 Total Shots Shots |
| Bottom to Top From Bottom to | Stage 31 12.7.19 112.680 12.603 12.603 Plug to Plug Frac Plug Stage 36 11.951 11.909 41.875 11.836 | 134 134 13504 Distance Between Perfs 35 38 39 135 12,738 Distance Between Perfs 39 34 39 | 44 Total Shots Shots 14 12 10 88 44 Total Shots | Plug to Plug Frac Plug Stage 32 12,565 12,527 12,485 12,450 Plug to Plug Frac Plug Stage 37 11,780 11,760 11,721 11,683 | Distance Between Perfs 38 42 35 120 212,570 Distance Between Perfs 38 39 | 44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 44 Total Shots | 13,063 Plug to Plug Frac Plug Stage 33 12,412 12,373 12,335 12,297 Plug to Plug Frac Plug Stage 38 11,647 11,606 11,6887 | 135 \$\instance\$ Between Perfs 38 38 38 134 \$\instance\$ 12,431 Distance Between Perfs 36 36 | 44 Total Shots Shots 14 12 10 8 Total Shots Shots 44 Total Shots | 12,910 Plug to Plug Frac Plug Stage 34 112,218 112,218 112,143 Plug to Plug Frac Plug Stage 39 111,491 111,453 111,453 111,379 | 134 13,0444 Distance Between Perfs 39 33 42 136 12,279 Distance Between Perfs 39 40 | 44 Total Shots Shots 14 Total Shots 41 Total Shots 41 Total Shots Shots 14 12 110 110 110 110 110 | Plug to Plug Frac Plug Stage 35 12,105 12,066 12,028 11,990 Plug to Plug Frac Plug Stage 40 11,300 11,1261 11,1261 | 130 P12,884 Distance Between Perfs 38 38 38 134 112,124 Distance Between Perfs 41 39 | 44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 41 12 12 10 88 88 |
| Bottom to Top From Bottom to | Frac Plug Stage 31 12.7,19 112.680 12.603 12.603 Plug to Plug Frac Plug Stage 36 11.951 11.905 11.875 11.836 | 134 13504 Distance Between Perfs 35 38 39 135 12,738 Distance Between Perfs 39 34 39 39 34 39 | 44 Total Shots Shots 14 12 10 10 8 44 Total Shots | Plug to Plug Frac Plug Stage 32 12,565 12,527 12,485 12,485 Plug to Plug Frac Plug Stage 37 11,798 11,700 11,721 11,663 | Distance Between Perfs 38 42 35 120 \$12,570 Distance Between Perfs 38 39 38 | 44 Total Shots Shots 14 12 10 8 44 Total Shots | 13,063 Plug to Plug Frac Plug Stage 33 12,412 12,373 12,335 12,297 Plug to Plug Frac Plug Stage 38 3,11647 11,1606 11,568 11,568 | 135 135 13/198 13/198 Distance Between Perfs 38 38 38 38 38 36 36 38 38 38 38 | 44 Total Shots Shots 14 12 10 8 44 Total Shots 44 Total Shots Shots 14 12 10 10 10 10 10 10 10 10 10 10 10 10 10 | 12:910 Plug to Plug Frac Plug Stage 34 11:258 12:218 12:143 Plug to Plug Frac Plug Stage 39 14:491 14:453 11:433 11:433 | 134 13,044 13,044 Distance Between Perfs 39 33 42 136 12,279 Distance Between Perfs 39 40 34 | 8 44 Total Shots Shots 114 12 10 8 44 Total Shots | 12/754 Plug to Plug Frac Plug Stage 35 12/105 12/1066 11/2086 11/990 Plug to Plug Frac Plug Stage 40 11/338 11/330 11/323 | 130 12,884 Distance Between Perfs 38 38 38 134 12,124 Distance Between Perfs 41 39 38 | 44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 14 12 10 10 11 11 12 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| Bottom to Top From Bottom to | Stage 31 12.719 12.680 12.682 12.603 12.603 12.603 12.603 13.605 13.951 13.856 13.951 13.856 13.856 14.875 13.836 14.875 14.836 14.875 14.836 14.875 14.836 14.875 14.836 14.875 | 134 \$\frac{13.504}{3.504}\$ Distance Between Perfs 35 38 39 135 \$\frac{12.738}{3.12.738}\$ Distance Between Perfs 39 34 39 135 | 44 Total Shots Shots 14 12 10 8 8 44 Total Shots Shots 14 44 Total Shots | Plug to Plug Frac Plug Frac Plug Stage 32 12,565 12,527 12,485 12,485 Plug to Plug Frac Plug Stage 37 11,786 11,786 11,781 11,683 Plug to Plug | Distance Between Perfs 38 42 35 | 44 Total Shots Shots 14 12 10 10 44 Total Shots Shots 44 Total Shots | 13,063 Plug to Plug Frac Plug Stage 33 12,412 12,373 12,335 12,297 Plug to Plug Frac Plug Stage 38 11,647 11,606 11,530 11,530 Plug to Plug Plug to Plug | 135 \$13/198 Distance Between Perfs 38 38 38 134 \$12/431 Distance Between Perfs 36 38 38 38 | 44 Total Shots Shots 14 12 10 10 18 44 Total Shots Shots 44 45 46 47 48 48 48 48 48 48 48 48 48 48 48 48 48 | 12:910 Plug to Plug Frac Plug Stage 34 12:258 112:218 12:185 12:143 Plug to Plug Frac Plug Stage 39 11:491 11:453 11:473 Plug to Plug Plug to Plug | 134 13,044 Distance Between Perfs 39 33 42 136 12,279 Distance Between Perfs 39 40 34 | 44 Total Shots Shots 114 12 10 44 Total Shots Shots 14 12 10 10 10 44 | 12/754 Plug to Plug Frac Plug Stage 35 12/056 12/086 11/990 Plug to Plug Frac Plug Stage 40 11/338 11/300 11/261 11/223 Plug to Plug | 130 12,884 Distance Between Perfs 38 38 38 134 12,124 Distance Between Perfs 41 39 38 | 44 Total Shots Shots 14 12 10 44 Total Shots Shots 44 Total Shots 14 12 10 43 44 44 44 44 44 44 44 44 44 44 44 44 |
| Bottom to Top From Bottom to | Frac Plug Stage 31 12.7,19 112.680 12.603 12.603 Plug to Plug Frac Plug Stage 36 11.951 11.905 11.875 11.836 | 134 13504 Distance Between Perfs 35 38 39 135 12,738 Distance Between Perfs 39 34 39 39 34 39 | 44 Total Shots Shots 14 12 10 10 8 44 Total Shots | Plug to Plug Frac Plug Stage 32 12,565 12,527 12,485 12,485 Plug to Plug Frac Plug Stage 37 11,798 11,700 11,721 11,663 | Distance Between Perfs 38 42 35 120 \$12,570 Distance Between Perfs 38 39 38 | 44 Total Shots Shots 14 12 10 8 44 Total Shots | 13,063 Plug to Plug Frac Plug Stage 33 12,412 12,373 12,335 12,297 Plug to Plug Frac Plug Stage 38 3,11647 11,1606 11,568 11,568 | 135 135 13/198 13/198 Distance Between Perfs 38 38 38 38 38 36 36 38 38 38 38 | 44 Total Shots Shots 14 12 10 8 44 Total Shots 44 Total Shots Shots 14 12 10 10 10 10 10 10 10 10 10 10 10 10 10 | 12:910 Plug to Plug Frac Plug Stage 34 12:258 112:218 12:185 12:143 Plug to Plug Frac Plug Stage 39 11:491 11:453 11:473 Plug to Plug Plug to Plug | 134 13,044 13,044 Distance Between Perfs 39 33 42 136 12,279 Distance Between Perfs 39 40 34 | 8 44 Total Shots Shots 114 12 10 8 44 Total Shots | 12/754 Plug to Plug Frac Plug Stage 35 12/105 12/1066 11/2086 11/990 Plug to Plug Frac Plug Stage 40 11/338 11/330 11/323 | 130 12,884 Distance Between Perfs 38 38 38 134 12,124 Distance Between Perfs 41 39 38 | 44 Total Shots Shots 14 12 10 44 Total Shots Shots 44 Total Shots 14 12 10 43 44 44 44 44 44 44 44 44 44 44 44 44 |
| Bottom to Top From Bottom to | Stage 31 | 134 \$\frac{13.504}{3.504}\$ Distance Between Perfs 35 38 39 135 \$\frac{12.738}{3.12.738}\$ Distance Between Perfs 39 34 39 135 | 44 Total Shots Shots 14 12 10 8 44 Total Shots Shots Shots 44 Total Shots | Plug to Plug Frac Plug Stage 32 12,565 12,527 12,485 12,485 Plug to Plug Frac Plug Stage 37 11,760 11,721 11,663 Plug to Plug Frac Plug Plug to Plug Frac Plug | Distance Between Perfs 38 42 35 120 \$12,570 Distance Between Perfs 38 39 38 \$11,811 Distance | 44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 44 Total Shots | 13,063 Plug to Plug Frac Plug Stage 33 12,412 12,373 12,335 12,297 Plug to Plug Frac Plug Stage 38 11,647 11,606 11,568 11,568 11,568 Plug to Plug Frac Plug | 135 \$13/198 Distance Between Perfs 38 38 38 134 \$12/431 Distance Between Perfs 36 38 38 38 | 44 Total Shots Shots 14 12 10 81 44 Total Shots Shots Shots 14 12 14 10 18 18 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10 | 12:910 Plug to Plug Frac Plug Stage 34 112:218 112:143 Plug to Plug Frac Plug Stage 39 11:491 11:453 11:433 11:437 Plug to Plug Frac Plug Plug to Plug Frac Plug | 134 23,044 20 21,044 21 | 44 Total Shots Shots 114 12 10 8 44 Total Shots Shots Shots 44 Total Shots | Plug to Plug Frac Plug Stage 35 12,105 12,066 11,206 11,990 Plug to Plug Frac Plug Stage 40 11,338 11,1300 11,1213 Plug to Plug Frac Plug | 130 12,884 Distance Between Perfs 38 38 38 134 12,124 Distance Between Perfs 41 39 38 134 11,357 | 44 Total Shots Shots 14 12 10 8 8 Total Shots Shots 14 Total Shots 44 Total Shots |
| Bottom to Top From Bottom to | Stage 31 12.719 12.680 12.682 12.603 12.603 12.603 12.603 13.605 13.951 13.856 13.951 13.856 13.856 14.875 13.836 14.875 14.836 14.875 14.836 14.875 14.836 14.875 14.836 14.875 | 134 \$\frac{1}{3},504\frac{1}{2}\$ Distance Between Perfs 35 38 39 135 \$\frac{1}{2},738\frac{1}{2}\$ Distance Between Perfs 39 34 39 135 \$\frac{1}{1},971\frac{1}{2}\$ Distance Between Betw | 44 Total Shots Shots 14 12 10 8 8 44 Total Shots Shots 14 44 Total Shots | Plug to Plug Frac Plug Frac Plug Stage 32 12,565 12,527 12,485 12,485 Plug to Plug Frac Plug Stage 37 11,786 11,786 11,781 11,683 Plug to Plug | Distance Between Perfs 38 42 35 | 44 Total Shots Shots 14 12 10 10 44 Total Shots Shots 44 Total Shots | 13,063 Plug to Plug Frac Plug Stage 33 12,412 12,373 12,335 12,297 Plug to Plug Frac Plug Stage 38 11,647 11,606 11,530 11,530 Plug to Plug Plug to Plug | 135 #13/198 Distance Between Perfs 38 38 38 134 #12/431 Distance Between Perfs 36 38 38 134 #11/664 | 44 Total Shots Shots 14 12 10 10 18 44 Total Shots Shots 44 45 46 47 48 48 48 48 48 48 48 48 48 48 48 48 48 | 12:910 Plug to Plug Frac Plug Stage 34 12:258 112:218 12:185 12:143 Plug to Plug Frac Plug Stage 39 11:491 11:453 11:473 Plug to Plug Plug to Plug | 134 23,0444 Distance Between Perfs 39 33 42 136 212,279 Distance Between Perfs 39 40 34 121 121 121 Distance Between Perfs 19 40 34 | 44 Total Shots Shots 114 12 10 44 Total Shots Shots 14 12 10 10 10 44 | 12/754 Plug to Plug Frac Plug Stage 35 12/056 12/086 11/990 Plug to Plug Frac Plug Stage 40 11/338 11/300 11/261 11/223 Plug to Plug | 130 12,884 Distance Between Perfs 38 38 38 134 12,124 Distance Between Perfs 41 39 38 134 11,357 | 44 Total Shots Shots 14 10 44 Total Shots 44 Total Shots Shots 14 12 10 10 44 44 44 44 44 44 44 44 44 44 44 44 44 |
| From Bottom to | Stage 31 12.719 12.680 12.693 12.603 12.603 12.603 12.603 13.605 13.951 13.909 11.875 11.836 11.909 11.875 11.836 11.909 11.875 11.836 11.909 11.875 11.836 11.909 11.875 11.836 11.909 11.875 11.836 11.909 11.875 11.836 11.909 11.875 11.836 11.909 11.875 11.836 11.909 11.875 11.836 11.909 11.875 11.836 11.909 11.875 11.836 11.909 11.875 11.836 11.909 11.875 11.836 11.909 11.875 11.836 11.836 11.909 11.875 11.836 | 134 \$\frac{1}{3},504\frac{3}{2}\$ Distance Between Perfs 35 38 39 135 \$\frac{1}{2},738\frac{3}{2}\$ Distance Between Perfs 39 34 39 135 \$\frac{1}{1},974\frac{3}{2}\$ Distance Between Perfs | 44 Total Shots Shots 14 12 10 44 Total Shots Shots Shots Shots Shots 14 12 10 8 8 14 Total Shots | Plug to Plug Frac Plug Stage 32 12,565 12,527 12,485 12,450 Plug to Plug Frac Plug Stage 37 11,798 11,760 11,721 11,663 Plug to Plug Frac Plug Stage 42 | Distance Between Perfs 38 42 35 120 212/570 Distance Between Perfs 38 39 38 2128 21,811 Distance Between Perfs | 44 Total Shots Shots 14 Total Shots 44 Total Shots Shots 14 47 Total Shots 44 Total Shots Shots | 13,063 Plug to Plug Frac Plug Stage 33 12,412 12,373 12,335 12,297 Plug to Plug Frac Plug Stage 38 11,647 11,606 11,658 11,530 Plug to Plug Frac Plug Stage 43 | 135 31398 Distance Between Perfs 38 38 134 12;431 Distance Between Perfs 36 38 134 114 Distance Between Perfs 36 Between Perfs | 8 44 Total Shots Shots 14 Total Shots 8 44 Total Shots Shots Shots 14 Total Shots 44 Total Shots | 12:910 Plug to Plug Frac Plug Stage 34 12:258 12:218 12:218 12:143 Plug to Plug Frac Plug Stage 39 11:491 11:453 11:479 Plug to Plug Frac Plug Plug to Plug Stage 44 | 134 23,044 213,044 213,044 213,044 213,044 213,044 213,044 213,04 | 44 Total Shots Shots Shots 44 Total Shots Shots Shots Shots Shots Shots Shots Shots | Plug to Plug Frac Plug Stage 35 12,105 12,066 12,028 11,990 Plug to Plug Frac Plug Stage 40 11,338 11,300 11,1261 11,1261 Frac Plug Frac Plug Stage 45 | 130 12,884 Distance Between Perfs 38 38 134 12,124 Distance Between Perfs 41 39 38 134 11,357 | 44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 14 Total Shots |
| From Bottom to Top | Stage 31 12.719 12.680 12.693 12.693 12.693 12.693 12.693 12.693 13.991 13.999 14.875 14.836 14.875 14.836 14.875 14.836 14.875 14.836 14.875 14.836 14.875 14.836 14.875 14.836 14.875 14.836 14.875 14.836 14.875 14.836 14.875 14.836 14.875 14.836 14.875 14.836 14.875 14.836 | 134 135 Distance Between Perfs 35 38 39 135 12,738 Distance Between Perfs 39 34 39 135 135 135 39 34 39 Distance Between Perfs 39 34 39 | 44 Total Shots Shots 14 12 10 8 44 Total Shots Shots Shots Shots Shots 44 Total Shots | Plug to Plug Frac Plug Frac Plug Stage 32 12,565 12,527 12,485 12,485 11,760 Plug to Plug Frac Plug Stage 37 11,798 11,760 11,721 11,663 Plug to Plug Frac Plug Stage 42 | Distance Between Perfs 38 42 35 120 \$\frac{12570}{12570}\$ Distance Between Perfs 38 39 38 \$\frac{128}{11,811}\$ Distance Between Perfs 38 39 38 | 44 Total Shots Shots 14 12 10 8 44 Total Shots Shots Shots Shots Shots Shots Shots | 13,063 Plug to Plug Frac Plug Stage 33 12,412 12,373 12,335 12,297 Plug to Plug Frac Plug Stage 38 31,647 11,606 11,568 11,568 11,568 11,568 Plug to Plug Frac Plug Stage 43 | 135 #13/198 Distance Between Perfs 38 38 38 134 #12/431 Distance Between Perfs 36 38 38 134 #11/664 | 44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 44 Total Shots Shots 44 Total Shots Shots 44 Total Shots | 12:910 Plug to Plug Frac Plug Stage 34 11:258 12:218 12:143 Plug to Plug Frac Plug Stage 39 11:453 11:453 11:453 11:439 Plug to Plug Frac Plug Stage 44 | 134 23,0444 Distance Between Perfs 39 33 42 136 212,279 Distance Between Perfs 39 40 34 121 121 121 Distance Between Perfs 19 40 34 | 44 Total Shots Shots 114 12 10 8 44 Total Shots Shots Shots Shots 44 Total Shots 44 Total Shots | 12/754 Plug to Plug Frac Plug Stage 35 12/1066 12/1086 11/1990 Plug to Plug Frac Plug Stage 40 11/1338 11/1300 11/1261 11/1261 Plug to Plug Frac Plug Stage 45 | 130 12,884 Distance Between Perfs 38 38 134 12,124 Distance Between Perfs 41 39 38 134 11,357 | 44 Total Shots Shots 14 12 10 8 8 Total Shots Shots Shots Shots Shots Shots Shots |
| From Bottom to Top | Frac Plug Stage 31 12.7,19 112.680 112.642 12.603 Plug to Plug Frac Plug Stage 36 11.951 11.909 11.875 11.836 Plug to Plug Frac Plug Stage 41 11.184 | 134 \$\frac{13.504}{3.504}\$ Distance Between Perfs 35 38 39 135 \$\frac{12.738}{3.2.738}\$ Distance Between Perfs 39 31 135 \$\frac{13.5}{3.2.738}\$ Distance Between Perfs 39 38 | Shots Shots 14 12 10 10 44 Total Shots Shots Shots Shots Shots Shots 14 Total Shots Shots Shots 14 12 12 10 88 44 Total Shots | Plug to Plug Frac Plug Frac Plug Stage 32 12,565 12,527 12,485 11,780 11,798 11,780 | Distance Between Perfs 38 42 35 120 \$12,570 Distance Between Perfs 38 39 38 \$11,811 Distance Between Perfs 38 39 38 | 44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 44 Total Shots 44 Total Shots Shots Shots Shots | 13,063 Plug to Plug Frac Plug Stage 33 12,412 12,373 12,335 12,297 Plug to Plug Frac Plug Stage 38 11,647 11,568 11,568 11,568 Plug to Plug Frac Plug Stage 43 | 135 31398 Distance Between Perfs 38 38 134 12;431 Distance Between Perfs 36 38 134 114 Distance Between Perfs 36 Between Perfs | 84 44 Total Shots Shots 14 10 83 44 Total Shots Shots Shots Shots 44 Total Shots | 12:910 Plug to Plug Frac Plug Stage 34 11:258 12:218 12:218 12:143 Plug to Plug Frac Plug Stage 39 11:491 11:453 11:413 11:413 Plug to Plug Frac Plug Stage 44 | 134 23,044 213,044 213,044 213,044 213,044 213,044 213,044 213,04 | 44 Total Shots Shots 114 12 10 8 44 Total Shots Shots 14 12 10 18 18 44 Total Shots Shots Shots | 22.7544 Plug to Plug Frac Plug Stage 35 12.105 12.066 11.990 Plug to Plug Frac Plug Stage 40 11.338 11/300 11/1261 11/1223 Plug to Plug Frac Plug Stage 45 | 130 12,884 Distance Between Perfs 38 38 134 12,124 Distance Between Perfs 41 39 38 134 11,357 | Shots 14 12 10 8 8 44 Total Shots Shots 44 Total Shots 14 Total Shots 44 Total Shots Shots |
| From Bottom to Top | Frac Plug Stage 31 12.719 112.680 112.642 12.603 Plug to Plug Frac Plug Stage 36 11.951 11.909 11.875 11.836 Plug to Plug Frac Plug Stage 41 11.184 11.194 11.198 | 134 135 Distance Between Perfs 35 38 39 135 12,738 Distance Between Perfs 39 34 39 135 135 135 39 34 39 Distance Between Perfs 39 34 39 | 44 Total Shots Shots 114 112 10 8 44 Total Shots Shots Shots Shots 114 112 110 88 44 Total Shots Shots 114 112 110 110 111 111 111 111 111 111 111 | Plug to Plug Frac Plug Stage 32 12,565 12,527 12,485 11,2485 Plug to Plug Frac Plug Stage 37 11,798 11,798 11,760 11,721 11,683 Plug to Plug Frac Plug Stage 42 11,031 10,993 | Distance Between Perfs 38 42 35 120 \$\frac{12570}{12570}\$ Distance Between Perfs 38 39 38 \$\frac{128}{11,811}\$ Distance Between Perfs 38 39 38 | 44 Total Shots Shots 14 12 10 8 8 44 Total Shots Shots 14 44 Total Shots 44 Total Shots Shots Shots | 13,063 Plug to Plug Frac Plug Stage 33 112,412 112,373 121,335 112,237 Plug to Plug Frac Plug Stage 38 11,647 511,606 11,558 11,530 Plug to Plug Frac Plug Stage 43 | 135 31398 Distance Between Perfs 38 38 134 12;431 Distance Between Perfs 36 38 134 114 Distance Between Perfs 36 Between Perfs | 8 44 44 Total Shots Shots 14 10 8 8 44 Total Shots Shots 14 12 10 10 10 44 Total Shots Shots Shots Shots | 12:910 Plug to Plug Frac Plug Stage 34 12:258 112:2185 12:185 12:143 Plug to Plug Frac Plug Stage 39 11:491 11:453 11:413 11:379 Plug to Plug Frac Plug Stage 44 | 134 23,044 213,044 213,044 213,044 213,044 213,044 213,044 213,04 | 44 Total Shots Shots 114 44 Total Shots Shots 14 10 10 44 Total Shots Shots Shots Shots | 12:754 Plug to Plug Frac Plug Stage 35 12:105 12:066 12:028 11:990 Plug to Plug Frac Plug Stage 40 11:338 11:300 11:261 11:223 Plug to Plug Frac Plug Stage 45 | 130 12,884 Distance Between Perfs 38 38 134 12,124 Distance Between Perfs 41 39 38 134 11,357 | 44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 14 12 44 Total Shots 44 Total Shots Shots Shots |
| From Bottom to Top | Stage 31 12.719 12.680 12.693 12.603 12.603 12.603 12.603 12.603 13.951 13.909 11.875 11.836 14.805 | 134 \$\frac{13.504}{3.504}\$ Distance Between Perfs 35 38 39 135 \$\frac{12.738}{3.2.738}\$ Distance Between Perfs 39 31 135 \$\frac{13.5}{3.2.738}\$ Distance Between Perfs 39 38 | 44 Total Shots Shots 14 12 10 8 8 44 Total Shots Shots Shots Shots 14 12 10 8 14 10 8 14 10 8 | Plug to Plug Frac Plug Stage 32 12,565 12,527 12,485 12,450 12,450 11,750 11,760 11,721 11,683 Plug to Plug Frac Plug Stage 42 11,0311 10,993 10,994 10,916 | Distance Between Perfs 38 42 35 120 \$12,570 Distance Between Perfs 38 39 38 \$11,811 Distance Between Perfs 38 39 38 | 44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 14 12 10 10 10 10 10 10 10 10 10 10 10 10 10 | 13,063 Plug to Plug Frac Plug Stage 33 12,412 12,373 12,335 12,297 Plug to Plug Frac Plug Stage 38 11,647 11,6587 11,530 Plug to Plug Frac Plug Frac Plug Stage 43 | 135 31398 Distance Between Perfs 38 38 134 12;431 Distance Between Perfs 36 38 134 11;664 Distance Between Perfs | 8 44 Total Shots Shots 14 Total Shots 44 Total Shots Shots 14 Total Shots 44 Total Shots | 12,910 Plug to Plug Frac Plug Stage 34 112,258 112,218 112,143 Plug to Plug Frac Plug Stage 39 111,491 111,453 111,379 Plug to Plug Frac Plug Stage 44 | 134 23,044 213,044 213,044 213,044 213,044 213,044 213,044 213,04 | 44 Total Shots Shots 14 12 10 28 44 Total Shots Shots 14 10 10 10 44 Total Shots Shots | Plug to Plug Frac Plug Stage 35 12,105 12,006 12,028 11,990 Plug to Plug Frac Plug Stage 40 11,338 11,300 11,1261 11,1223 Plug to Plug Frac Plug Stage 45 | 130 12,884 Distance Between Perfs 38 38 134 12,124 Distance Between Perfs 41 39 38 134 11,357 Uistance Between Perfs 0 | 44 Total Shots Shots 14 10 10 44 Total Shots Shots Shots Shots 14 12 44 Total Shots Shots Shots |
| From Bottom to | Stage 31 12.719 12.680 12.683 12.603 12.603 12.603 12.603 12.603 12.603 12.603 12.603 13.951 13.909 14.875 14.836 14.875 14.836 14.875 14.836 | 134 135 Distance Between Perfs 35 38 39 135 12,738 Distance Between Perfs 39 34 39 135 135 39 34 39 39 34 39 39 34 39 39 | 44 Total Shots Shots 14 12 10 10 8 44 Total Shots Shots Shots Shots 114 12 10 8 114 10 10 8 114 114 115 115 115 115 115 115 115 115 | Plug to Plug Frac Plug Frac Plug \$12,565 \$12,527 \$12,485 \$12,450 \$12,450 \$11,750 \$11,750 \$11,750 \$11,751 \$11,683 \$11,761 \$11,683 \$11,761 \$11,683 \$11,761 \$11,761 \$11,683 \$11,761 \$11,683 \$11,761 \$11,683 \$11,761 \$11,683 \$11, | Distance Between Perfs 38 42 35 120 \$12,570 \$12,570 \$38 39 38 128 \$11,811 Distance Between Perfs 38 39 38 39 38 | 44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 14 12 10 10 10 10 8 44 Total Shots Shots Shots Shots | 13,063 Plug to Plug Frac Plug Stage 33 12,412 12,373 12,335 12,297 Plug to Plug Frac Plug Stage 38 11,637 11,530 Plug to Plug Frac Plug Stage 43 | 135 13198 Distance Between Perfs 38 38 38 134 12;431 Distance Between Perfs 36 38 38 134 114 11664 Distance Between Perfs 10916 | 8 44 Total Shots Shots 14 Total Shots 44 Total Shots Shots Shots Shots 44 Total Shots Shots Shots | 12:910 Plug to Plug Frac Plug Stage 34 12:218 12:218 12:218 12:143 Plug to Plug Frac Plug Stage 39 11:491 11:453 11:437 Plug to Plug Frac Plug Stage 44 | 134 23,044 213,044 213,044 213,044 213,044 213,044 213,044 2136 213,044 2136 2136 2136 2136 2136 2136 2136 2136 | 44 Total Shots Shots 114 Total Shots Shots 14 Total Shots Shots 14 Total Shots Shots Shots | 12,754 Plug to Plug Frac Plug Stage 35 12,105 12,066 11,208 11,990 Plug to Plug Frac Plug Stage 40 11,1300 11,1261 11,223 Plug to Plug Frac Plug Stage 45 | 130 12,884 Distance Between Perfs 38 38 38 134 12,124 Distance Between Perfs 41 39 38 134 11,357 | 44 Total Shots Shots 14 12 10 8 44 Total Shots Shots Shots Shots Shots Shots Shots |
| From Bottom to Top | Stage 31 12.719 12.680 12.693 12.603 12.603 12.603 12.603 12.603 13.951 13.909 11.875 11.836 14.805 | 134 \$\frac{13.504}{3.504}\$ Distance Between Perfs 35 38 39 135 \$\frac{12.738}{3.2.738}\$ Distance Between Perfs 39 31 135 \$\frac{13.5}{3.2.738}\$ Distance Between Perfs 39 38 | 44 Total Shots Shots 14 12 10 8 8 44 Total Shots Shots Shots Shots 14 12 10 8 14 10 8 14 10 8 | Plug to Plug Frac Plug Stage 32 12,565 12,527 12,485 12,450 12,450 11,750 11,760 11,721 11,683 Plug to Plug Frac Plug Stage 42 11,0311 10,993 10,994 10,916 | Distance Between Perfs 38 42 35 120 \$12,570 Distance Between Perfs 38 39 38 \$11,811 Distance Between Perfs 38 39 38 | 44 Total Shots Shots 14 12 10 8 44 Total Shots Shots 14 12 10 10 10 10 10 10 10 10 10 10 10 10 10 | 13,063 Plug to Plug Frac Plug Stage 33 12,412 12,373 12,335 12,297 Plug to Plug Frac Plug Stage 38 11,647 11,606 11,568 11,568 11,568 11,568 11,568 Plug to Plug Frac Plug Stage 43 | 135 31398 Distance Between Perfs 38 38 134 12;431 Distance Between Perfs 36 38 134 11;664 Distance Between Perfs | 8 44 Total Shots Shots 14 Total Shots 44 Total Shots Shots 14 Total Shots 44 Total Shots | 12:910 Plug to Plug Frac Plug Stage 34 112:218 112:185 112:143 Plug to Plug Frac Plug Stage 39 11:491 11:453 11:433 11:437 Plug to Plug Frac Plug Stage 44 Plug to Plug | 134 23,044 213,044 213,044 213,044 213,044 213,044 213,044 213,04 | 44 Total Shots Shots 14 12 10 28 44 Total Shots Shots 14 10 10 10 44 Total Shots Shots | Plug to Plug Frac Plug Stage 35 12,105 12,066 11,206 11,990 Plug to Plug Frac Plug Stage 40 11,338 11,1300 11,1213 Plug to Plug Frac Plug Stage 45 | 130 12,884 Distance Between Perfs 38 38 38 134 12,124 Distance Between Perfs 41 39 38 134 11,357 Distance Between Perfs 0 0 | 44 Total Shots Shots 14 10 10 44 Total Shots Shots Shots Shots 14 12 44 Total Shots Shots Shots |