1076294

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

# CONFIDENTIAL

## WELL COMPLETION FORM
### WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34192
Name: SandRidge Exploration and Production LLC
Address 1: 123 ROBERT S. KERR AVE
Address 2:
City: OKLAHOMA CITY State: OK Zip: 73102 + 6406
Contact Person: Tiffany Golay
Phone: ( 405 ) 429-6543
CONTRACTOR: License # 34464
Name: Lariat Services, Inc.
Wellsite Geologist: Tammy Alcorn
Purchaser: Sunoco (oil)/ Atlas (gas)

Designate Type of Completion:

- [x] New Well [ ] Re-Entry [ ] Workover
- [x] Oil [ ] WSW [ ] SWD [ ] SIOW
- [ ] Gas [ ] D&A [ ] ENHR [ ] SIGW
- [ ] OG [ ] GSW [ ] Temp. Abd.
- [ ] CM *(Coal Bed Methane)*
- [ ] Cathodic [ ] Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:

Operator:
Well Name:
Original Comp. Date: Original Total Depth:

- [ ] Deepening [ ] Re-perf. [ ] Conv. to ENHR [ ] Conv. to SWD
- [ ] Conv. to GSW
- [ ] Plug Back: Plug Back Total Depth
- [ ] Commingled Permit #:
- [ ] Dual Completion Permit #:
- [ ] SWD Permit #:
- [ ] ENHR Permit #:
- [ ] GSW Permit #:

| 3/7/2012 | 4/9/2012 | 4/13/2012 |
|---|---|---|
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |

API No. 15 - 15-077-21791-01-00
Spot Description:
S2 - S2 - SE - SE Sec. 14 Twp. 35 S. R. 7 [ ] East [x] West
200 Feet from [ ] North / [x] South Line of Section
660 Feet from [x] East / [ ] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[ ] NE [ ] NW [x] SE [ ] SW
County: Harper
Lease Name: Hopkins Well #: 1-14H
Field Name:
Producing Formation: Mississippian
Elevation: Ground: 1329 Kelly Bushing: 1309
Total Depth: 9999 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 2506 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

**Drilling Fluid Management Plan**
*(Data must be collected from the Reserve Pit)*

Chloride content: 20000 ppm Fluid volume: 6100 bbls
Dewatering method used: Haul Off Pit

Location of fluid disposal if hauled offsite:

Operator Name: Magnet
Lease Name: unknown License #: 99999
Quarter NW Sec. 19 Twp. 29 S. R. 6 [ ] East [x] West
County: Grant, OK Permit #: 12-20017

**AFFIDAVIT**

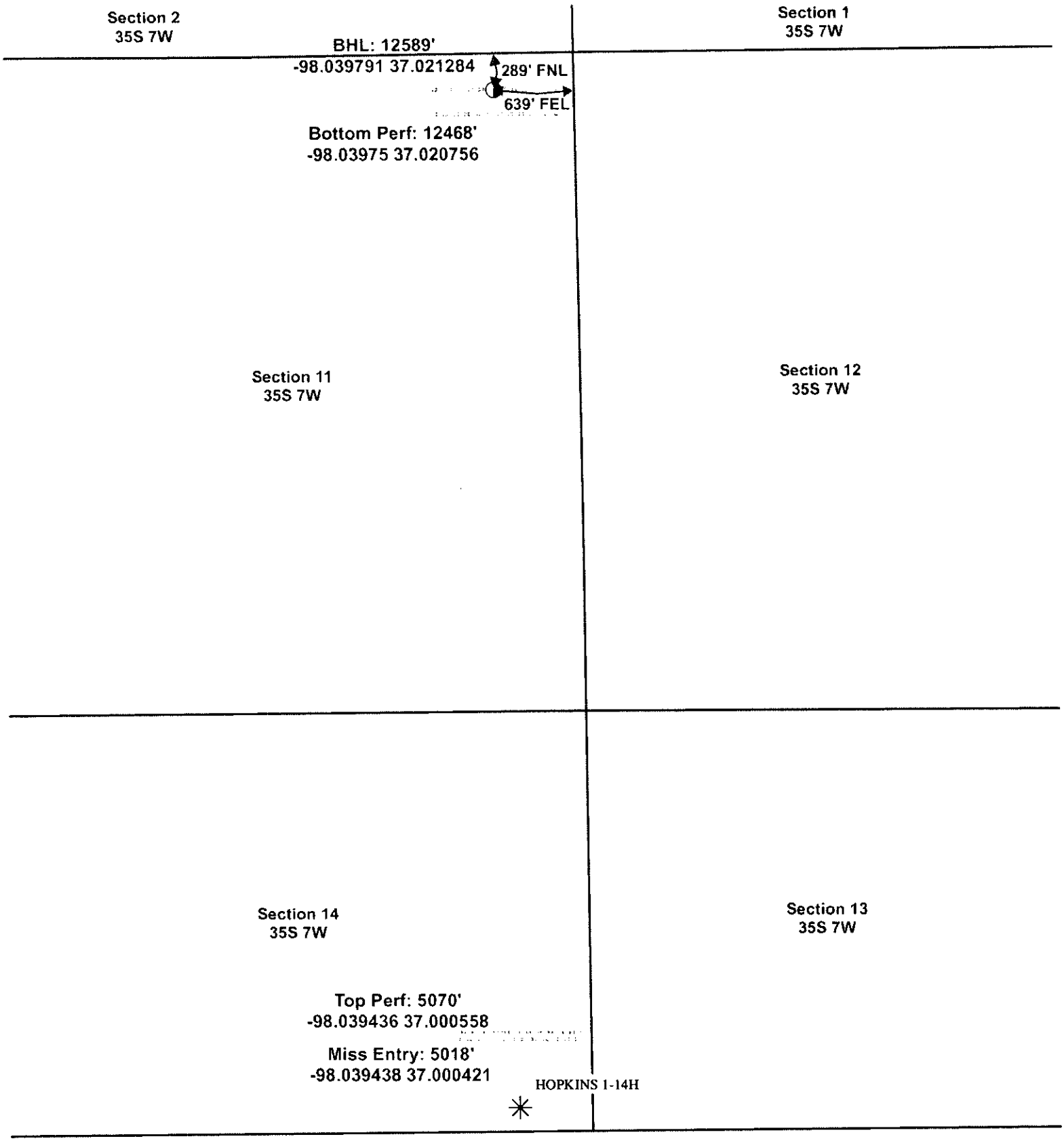
I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- [x] Letter of Confidentiality Received
  Date: 07/03/2012
- [ ] Confidential Release Date:
- [x] Wireline Log Received
- [ ] Geologist Report Received
- [ ] UIC Distribution

ALT [x] I [ ] II [ ] III Approved by: NAOMI JAMES Date: 07/03/2012




SANDRIDGE
THE POWER OF US

- Actual BH Location
- SandRidge Wells
- Perf
- PLSS Sections

**Actual Bottom-Hole Location ofHopkins 1-14H**
**Harper County, Kansas**
**T&R: 35S 7W**
**Section: 11, 289' FNL & 639' FEL**
**Long: -99.039791 Lat: 37.021284**

1 in = 1,042 ft

0 750 1,500 3,000 Feet

Draftsman: Aaron Birk

Draft Date: 6/20/2012

Drawing Name/Number: Addendum_Hopkins 1-14H.mxd

Coordinate System: NAD 1927 State Plane Kansas South FIPS: 1502

| | Measured Depth (ft) | Sub-Sea Incl. (ft) | Vertical Azim. (ft) | True Vert Depth (ft) | Northings (+) Southings (-) (ft) | Eastings (+) Westings (-) (ft) | Vert Section (ft) | DLS deg/100' (deg) | FNL | FSL | FWL | FEL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SHL | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8424 | 199 | 4653 | 659 |
| BHL | 12589 | 92.74 | 358.78 | 4835.95 | 8088.38 | -143.18 | 8087.29 | 0.64 | 336 | 8287 | 4563 | 735 |
| Miss Entry | 5018 | 51.25 | 0.45 | 4821.08 | 552.80 | -5.49 | 552.82 | 6.41 | 7871 | 752 | 4651 | 660 |
| Top Perf | 5070 | 54.12 | 2.52 | 4852.51 | 594.19 | -4.50 | 594.21 | 5.73 | 7829 | 793 | 4652 | 659 |
| Bottom Perf | 12470 | 92.03 | 356.76 | 4840.25 | 7967.64 | -136.52 | 7968.50 | 0.56 | 455 | 8168 | 4569 | 729 |

| | Measured Depth (ft) | Sub-Sea Incl. (ft) | Vertical Azim. (ft) | True Vert Depth (ft) | Northings (+) Southings (-) (ft) | Eastings (+) Westings (-) (ft) | Vert Section (ft) | DLS deg/100' (deg) | FNL | FSL | FWL | FEL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 8424 | 199 | 4653 | 659 |
| | 2711 | 0.34 | 317.63 | 2710.98 | 5.96 | -5.40 | 6.01 | 0.01 | 8418 | 205 | 4647 | 665 |
| | 3157 | 0.59 | 329.49 | 3156.97 | 8.92 | -7.45 | 8.98 | 0.06 | 8415 | 208 | 4645 | 667 |
| | 3635 | 0.59 | 302.89 | 3634.94 | 12.38 | -10.77 | 12.47 | 0.06 | 8411 | 212 | 4642 | 670 |
| | 3922 | 0.90 | 273.25 | 3921.92 | 13.31 | -14.26 | 13.43 | 0.17 | 8410 | 213 | 4638 | 674 |
| | 3985 | 1.34 | 278.38 | 3984.91 | 13.45 | -15.48 | 13.58 | 0.72 | 8410 | 213 | 4637 | 675 |
| | 4017 | 3.47 | 354.38 | 4016.88 | 14.47 | -15.95 | 14.60 | 10.64 | 8409 | 214 | 4637 | 675 |
| | 4049 | 5.69 | 7.20 | 4048.78 | 17.01 | -15.84 | 17.14 | 7.60 | 8406 | 216 | 4637 | 675 |
| | 4081 | 8.98 | 12.03 | 4080.52 | 21.02 | -15.12 | 21.14 | 10.39 | 8402 | 220 | 4638 | 674 |
| | 4113 | 11.53 | 9.63 | 4112.00 | 26.61 | -14.07 | 26.72 | 8.14 | 8397 | 226 | 4639 | 673 |
| | 4145 | 13.66 | 9.20 | 4143.23 | 33.49 | -12.93 | 33.60 | 6.66 | 8390 | 233 | 4640 | 672 |
| | 4177 | 15.02 | 8.69 | 4174.23 | 41.32 | -11.70 | 41.42 | 4.27 | 8382 | 241 | 4641 | 671 |
| | 4209 | 16.22 | 7.49 | 4205.05 | 49.85 | -10.49 | 49.94 | 3.88 | 8374 | 249 | 4642 | 669 |
| | 4241 | 18.60 | 8.81 | 4235.58 | 59.31 | -9.04 | 59.39 | 7.75 | 8364 | 259 | 4644 | 668 |
| | 4273 | 21.86 | 8.50 | 4265.61 | 70.24 | -7.29 | 70.29 | 10.28 | 8353 | 270 | 4646 | 666 |
| | 4305 | 24.72 | 6.65 | 4295.00 | 82.78 | -5.63 | 82.82 | 9.22 | 8341 | 282 | 4648 | 664 |
| | 4337 | 26.26 | 7.23 | 4323.88 | 96.45 | -3.97 | 96.48 | 4.88 | 8327 | 298 | 4649 | 663 |
| | 4368 | 27.76 | 6.04 | 4351.50 | 110.43 | -2.34 | 110.45 | 5.14 | 8313 | 310 | 4651 | 661 |
| | 4400 | 30.83 | 5.04 | 4379.40 | 126.01 | -0.84 | 126.02 | 9.71 | 8298 | 325 | 4653 | 659 |
| | 4432 | 33.46 | 3.55 | 4406.50 | 142.99 | 0.43 | 142.98 | 8.58 | 8281 | 342 | 4654 | 658 |
| | 4463 | 34.71 | 2.56 | 4432.17 | 160.34 | 1.35 | 160.32 | 4.41 | 8263 | 360 | 4655 | 657 |
| | 4496 | 34.10 | 2.63 | 4459.40 | 178.98 | 2.20 | 178.94 | 1.85 | 8245 | 378 | 4656 | 656 |
| | 4528 | 35.43 | 1.42 | 4485.68 | 197.20 | 2.84 | 197.17 | 4.68 | 8226 | 396 | 4657 | 655 |
| | 4560 | 38.12 | 0.81 | 4511.31 | 216.35 | 3.21 | 216.32 | 8.48 | 8207 | 416 | 4657 | 654 |
| | 4592 | 41.56 | 0.17 | 4535.88 | 236.85 | 3.38 | 236.81 | 10.83 | 8187 | 436 | 4658 | 654 |
| | 4624 | 44.21 | 359.90 | 4559.33 | 258.62 | 3.39 | 258.59 | 8.30 | 8165 | 458 | 4658 | 654 |
| | 4655 | 46.34 | 357.94 | 4581.14 | 280.64 | 2.97 | 280.61 | 8.21 | 8143 | 480 | 4657 | 654 |
| | 4687 | 47.89 | 357.18 | 4602.92 | 304.07 | 1.97 | 304.04 | 5.15 | 8119 | 503 | 4657 | 655 |
| | 4719 | 47.98 | 356.96 | 4624.36 | 327.79 | 0.75 | 327.77 | 0.58 | 8096 | 527 | 4656 | 656 |
| | 4750 | 49.80 | 357.79 | 4644.74 | 351.12 | -0.31 | 351.11 | 6.21 | 8072 | 550 | 4655 | 657 |
| Top of Tangent @ 4750' | 4782 | 49.83 | 358.34 | 4665.39 | 375.55 | -1.14 | 375.55 | 1.32 | 8048 | 575 | 4654 | 657 |
| | 4827 | 48.75 | 357.94 | 4694.74 | 409.65 | -2.24 | 409.65 | 2.49 | 8014 | 609 | 4653 | 658 |
| | 4878 | 47.99 | 358.21 | 4728.62 | 447.74 | -3.53 | 447.76 | 1.54 | 7976 | 647 | 4652 | 659 |
| | 4910 | 47.86 | 358.20 | 4750.06 | 471.49 | -4.27 | 471.50 | 0.41 | 7952 | 671 | 4651 | 660 |
| Bottom of Tangent @ 4950' | 4941 | 47.47 | 358.72 | 4770.94 | 494.39 | -4.89 | 494.42 | 1.77 | 7929 | 694 | 4651 | 660 |
| | 4973 | 49.06 | 358.66 | 4792.24 | 518.27 | -5.39 | 518.29 | 4.98 | 7905 | 718 | 4651 | 660 |
| | 5005 | 50.11 | 0.22 | 4812.98 | 542.63 | -5.58 | 542.66 | 4.61 | 7881 | 742 | 4651 | 660 |
| | 5038 | 52.84 | 0.76 | 4832.29 | 566.88 | -5.37 | 566.90 | 8.91 | 7857 | 766 | 4651 | 660 |
| | 5068 | 53.92 | 2.47 | 4851.38 | 592.55 | -4.65 | 592.57 | 5.46 | 7831 | 792 | 4652 | 659 |
| | 5101 | 57.14 | 3.35 | 4870.08 | 619.72 | -3.26 | 619.72 | 10.00 | 7804 | 819 | 4653 | 657 |
| | 5133 | 61.07 | 3.33 | 4886.48 | 647.12 | -1.66 | 647.11 | 12.28 | 7776 | 846 | 4655 | 656 |
| | 5165 | 65.23 | 3.41 | 4900.93 | 675.62 | 0.02 | 675.59 | 13.00 | 7748 | 875 | 4657 | 654 |
| | 5197 | 69.66 | 3.86 | 4913.20 | 705.10 | 1.89 | 705.06 | 13.90 | 7718 | 904 | 4659 | 652 |
| | 5229 | 74.32 | 3.73 | 4923.10 | 735.46 | 3.90 | 735.40 | 14.57 | 7688 | 935 | 4661 | 649 |
| | 5260 | 77.92 | 4.58 | 4930.53 | 765.47 | 6.09 | 765.39 | 11.91 | 7658 | 965 | 4664 | 647 |
| | 5293 | 82.06 | 4.89 | 4936.27 | 797.85 | 8.77 | 797.75 | 12.58 | 7626 | 997 | 4667 | 644 |
| | 5325 | 86.39 | 3.63 | 4939.48 | 829.59 | 11.13 | 829.47 | 14.09 | 7594 | 1029 | 4669 | 641 |
| | 5439 | 91.64 | 2.98 | 4941.44 | 943.35 | 17.68 | 943.17 | 4.64 | 7480 | 1142 | 4677 | 634 |
| | 5500 | 90.49 | 3.12 | 4940.31 | 1004.25 | 20.91 | 1004.04 | 1.90 | 7419 | 1203 | 4680 | 630 |
| | 5564 | 92.17 | 3.35 | 4938.62 | 1068.13 | 24.53 | 1067.89 | 2.65 | 7356 | 1267 | 4684 | 626 |
| | 5628 | 92.05 | 2.92 | 4936.47 | 1131.99 | 28.02 | 1131.72 | 0.70 | 7292 | 1331 | 4688 | 622 |
| | 5724 | 92.17 | 1.57 | 4932.93 | 1227.85 | 31.78 | 1227.54 | 1.41 | 7196 | 1427 | 4692 | 617 |
| | 5820 | 92.22 | 2.90 | 4929.26 | 1323.70 | 35.52 | 1323.36 | 1.39 | 7100 | 1523 | 4697 | 613 |
| | 5915 | 92.65 | 1.54 | 4925.22 | 1418.54 | 39.20 | 1418.17 | 1.50 | 7005 | 1617 | 4701 | 608 |
| | 6010 | 91.33 | 1.70 | 4921.92 | 1513.44 | 41.88 | 1513.05 | 1.40 | 6910 | 1712 | 4704 | 605 |
| | 6105 | 91.96 | 0.85 | 4919.19 | 1608.38 | 44.00 | 1607.96 | 1.11 | 6815 | 1807 | 4707 | 602 |
| | 6201 | 90.03 | 359.00 | 4917.53 | 1704.36 | 43.67 | 1703.93 | 2.78 | 6719 | 1903 | 4708 | 601 |
| | 6296 | 91.23 | 357.29 | 4916.48 | 1799.30 | 40.80 | 1798.90 | 2.20 | 6624 | 1998 | 4705 | 604 |
| | 6391 | 89.27 | 356.94 | 4916.07 | 1894.17 | 36.01 | 1893.81 | 2.10 | 6530 | 2093 | 4701 | 608 |
| | 6487 | 90.86 | 358.48 | 4915.96 | 1990.09 | 32.18 | 1989.75 | 2.31 | 6434 | 2189 | 4698 | 611 |
| | 6582 | 88.77 | 358.06 | 4916.27 | 2085.04 | 29.31 | 2084.72 | 2.24 | 6339 | 2284 | 4696 | 613 |
| | 6677 | 90.00 | 358.27 | 4917.29 | 2179.98 | 26.27 | 2179.69 | 1.31 | 6244 | 2379 | 4693 | 615 |
| | 6773 | 90.47 | 357.11 | 4916.89 | 2275.90 | 22.40 | 2275.64 | 1.30 | 6148 | 2475 | 4690 | 618 |
| | 6837 | 92.51 | 357.98 | 4915.23 | 2339.82 | 19.66 | 2339.57 | 3.47 | 6084 | 2539 | 4688 | 620 |
| | 6901 | 91.48 | 357.15 | 4913.00 | 2403.72 | 16.94 | 2403.50 | 2.07 | 6020 | 2603 | 4685 | 622 |
| | 6964 | 91.35 | 356.51 | 4911.44 | 2466.60 | 13.46 | 2466.41 | 1.04 | 5957 | 2666 | 4682 | 625 |
| | 7059 | 91.33 | 356.96 | 4909.22 | 2561.42 | 8.05 | 2561.27 | 0.47 | 5862 | 2761 | 4678 | 630 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7122 | 91.32 | 356.41 | 4907.77 | 2624.30 | 4.41 | 2624.17 | 0.87 | 5799 | 2823 | 4674 | 633 |
| 7186 | 91.41 | 356.80 | 4906.24 | 2688.17 | 0.62 | 2688.07 | 0.63 | 5735 | 2887 | 4671 | 636 |
| 7240 | 91.54 | 357.52 | 4904.62 | 2751.07 | -2.50 | 2751.00 | 1.16 | 5672 | 2950 | 4668 | 639 |
| 7344 | 90.53 | 356.19 | 4902.90 | 2845.91 | -7.71 | 2845.87 | 1.76 | 5578 | 3045 | 4664 | 643 |
| 7440 | 88.86 | 357.70 | 4903.41 | 2941.76 | -12.83 | 2941.77 | 2.35 | 5482 | 3141 | 4659 | 648 |
| 7535 | 90.77 | 357.76 | 4903.72 | 3036.68 | -16.59 | 3036.72 | 2.01 | 5387 | 3236 | 4656 | 651 |
| 7629 | 91.87 | 358.61 | 4901.56 | 3130.61 | -19.57 | 3130.67 | 1.48 | 5293 | 3330 | 4654 | 653 |
| 7726 | 92.12 | 359.51 | 4898.18 | 3227.54 | -21.16 | 3227.60 | 0.96 | 5196 | 3427 | 4653 | 654 |
| 7821 | 90.58 | 358.76 | 4895.94 | 3322.50 | -22.59 | 3322.57 | 1.80 | 5101 | 3522 | 4652 | 654 |
| 7917 | 91.87 | 0.21 | 4894.06 | 3418.47 | -23.46 | 3418.55 | 1.89 | 5005 | 3618 | 4652 | 654 |
| 8013 | 91.54 | 359.54 | 4891.37 | 3514.43 | -23.66 | 3514.51 | 0.71 | 4909 | 3714 | 4652 | 654 |
| 8109 | 93.79 | 359.22 | 4886.90 | 3610.32 | -24.70 | 3610.40 | 2.37 | 4813 | 3810 | 4652 | 654 |
| 8205 | 93.76 | 359.52 | 4880.57 | 3706.10 | -25.76 | 3706.19 | 0.31 | 4717 | 3906 | 4651 | 654 |
| 8301 | 93.31 | 359.46 | 4874.63 | 3801.91 | -26.61 | 3802.00 | 0.49 | 4621 | 4001 | 4651 | 654 |
| 8396 | 95.38 | 359.19 | 4867.43 | 3896.63 | -27.72 | 3896.72 | 2.20 | 4527 | 4096 | 4651 | 655 |
| 8459 | 94.79 | 0.25 | 4861.85 | 3959.38 | -28.03 | 3959.47 | 1.92 | 4464 | 4159 | 4651 | 654 |
| 8491 | 94.40 | 0.57 | 4859.29 | 3991.27 | -27.80 | 3991.37 | 1.57 | 4432 | 4191 | 4651 | 654 |
| 8522 | 91.91 | 358.60 | 4857.58 | 4022.22 | -28.03 | 4022.32 | 10.24 | 4401 | 4222 | 4651 | 654 |
| 8566 | 90.71 | 359.29 | 4856.12 | 4066.19 | -29.20 | 4066.30 | 2.16 | 4337 | 4286 | 4650 | 654 |
| 8616 | 90.68 | 358.16 | 4855.75 | 4116.19 | -29.61 | 4116.29 | 0.44 | 4307 | 4316 | 4650 | 655 |
| 8647 | 88.83 | 358.63 | 4855.88 | 4147.18 | -30.21 | 4147.29 | 6.21 | 4276 | 4347 | 4650 | 655 |
| 8678 | 89.04 | 358.52 | 4856.46 | 4178.17 | -30.98 | 4178.28 | 0.76 | 4245 | 4378 | 4649 | 655 |
| 8708 | 88.78 | 358.14 | 4857.03 | 4208.15 | -31.85 | 4208.27 | 1.53 | 4215 | 4408 | 4649 | 656 |
| 8754 | 87.76 | 357.85 | 4858.42 | 4254.10 | -33.46 | 4254.23 | 2.31 | 4169 | 4454 | 4647 | 657 |
| 8786 | 88.28 | 356.95 | 4859.53 | 4286.05 | -34.91 | 4286.19 | 3.25 | 4137 | 4486 | 4646 | 659 |
| 8817 | 88.67 | 357.98 | 4860.35 | 4317.00 | -36.28 | 4317.16 | 3.55 | 4105 | 4517 | 4645 | 660 |
| 8849 | 88.67 | 357.58 | 4861.09 | 4348.97 | -37.52 | 4349.13 | 1.25 | 4074 | 4549 | 4644 | 661 |
| 8881 | 89.01 | 358.25 | 4861.74 | 4380.94 | -38.68 | 4381.11 | 2.35 | 4042 | 4581 | 4643 | 661 |
| 8912 | 88.74 | 358.13 | 4862.35 | 4411.92 | -39.67 | 4412.10 | 0.95 | 4011 | 4612 | 4642 | 662 |
| 8944 | 89.41 | 358.51 | 4862.87 | 4443.90 | -40.60 | 4444.09 | 2.41 | 3979 | 4644 | 4641 | 663 |
| 8975 | 89.94 | 358.50 | 4863.04 | 4474.89 | -41.41 | 4475.08 | 1.71 | 3948 | 4675 | 4641 | 663 |
| 9007 | 90.21 | 358.89 | 4863.00 | 4506.88 | -42.14 | 4507.08 | 1.48 | 3916 | 4707 | 4640 | 664 |
| 9039 | 89.01 | 357.73 | 4863.22 | 4538.87 | -43.08 | 4539.07 | 5.22 | 3884 | 4738 | 4639 | 665 |
| 9071 | 89.57 | 357.58 | 4863.62 | 4570.84 | -44.39 | 4571.05 | 1.81 | 3852 | 4770 | 4638 | 666 |
| 9103 | 89.78 | 357.92 | 4863.80 | 4602.81 | -45.65 | 4603.03 | 1.25 | 3820 | 4802 | 4637 | 667 |
| 9135 | 89.63 | 357.85 | 4863.96 | 4634.79 | -46.83 | 4635.02 | 0.52 | 3788 | 4834 | 4636 | 668 |
| 9167 | 89.66 | 357.85 | 4864.16 | 4666.77 | -48.03 | 4667.01 | 0.09 | 3757 | 4866 | 4635 | 668 |
| 9199 | 90.22 | 357.60 | 4864.19 | 4698.74 | -49.30 | 4698.99 | 1.92 | 3725 | 4898 | 4634 | 669 |
| 9231 | 90.37 | 358.47 | 4864.03 | 4730.72 | -50.40 | 4730.98 | 2.76 | 3693 | 4930 | 4633 | 670 |
| 9263 | 89.47 | 357.41 | 4864.07 | 4762.70 | -51.55 | 4762.97 | 4.35 | 3661 | 4962 | 4632 | 671 |
| 9295 | 89.53 | 358.68 | 4864.35 | 4794.68 | -52.64 | 4794.95 | 3.97 | 3629 | 4994 | 4632 | 672 |
| 9327 | 89.72 | 358.40 | 4864.56 | 4826.67 | -53.46 | 4826.95 | 1.06 | 3597 | 5026 | 4631 | 673 |
| 9359 | 89.84 | 358.67 | 4864.68 | 4858.66 | -54.27 | 4858.94 | 0.92 | 3565 | 5058 | 4630 | 673 |
| 9391 | 89.20 | 359.59 | 4864.95 | 4890.65 | -54.76 | 4890.94 | 3.50 | 3533 | 5090 | 4630 | 673 |
| 9423 | 89.16 | 359.72 | 4865.41 | 4922.65 | -54.95 | 4922.94 | 0.43 | 3501 | 5122 | 4630 | 673 |
| 9487 | 90.15 | 359.89 | 4865.80 | 4986.65 | -55.17 | 4986.93 | 1.57 | 3437 | 5186 | 4630 | 673 |
| 9595 | 89.47 | 359.19 | 4866.15 | 5094.64 | -56.04 | 5094.93 | 0.90 | 3329 | 5294 | 4630 | 673 |
| 9687 | 89.97 | 359.94 | 4866.60 | 5186.64 | -56.74 | 5186.93 | 0.98 | 3237 | 5386 | 4630 | 673 |
| 9780 | 89.78 | 359.32 | 4866.81 | 5279.64 | -57.34 | 5279.93 | 0.70 | 3144 | 5479 | 4630 | 673 |
| 9872 | 89.75 | 359.57 | 4867.18 | 5371.63 | -58.23 | 5371.93 | 0.27 | 3052 | 5571 | 4630 | 673 |
| 9964 | 90.49 | 0.26 | 4866.99 | 5463.63 | -58.36 | 5463.92 | 1.10 | 2960 | 5663 | 4630 | 672 |
| 10060 | 90.46 | 0.20 | 4866.20 | 5559.62 | -57.98 | 5559.91 | 0.07 | 2864 | 5759 | 4631 | 671 |
| 10155 | 90.86 | 0.07 | 4865.10 | 5654.62 | -57.76 | 5654.90 | 0.44 | 2769 | 5854 | 4632 | 670 |
| 10251 | 91.36 | 359.81 | 4863.24 | 5750.60 | -57.86 | 5750.88 | 0.58 | 2673 | 5950 | 4633 | 669 |
| 10346 | 91.23 | 359.81 | 4861.09 | 5845.57 | -58.17 | 5845.86 | 0.14 | 2578 | 6045 | 4633 | 669 |
| 10442 | 91.14 | 359.37 | 4859.11 | 5941.55 | -58.86 | 5941.84 | 0.47 | 2482 | 6141 | 4633 | 669 |
| 10538 | 90.74 | 359.45 | 4857.53 | 6037.53 | -59.85 | 6037.82 | 0.42 | 2386 | 6237 | 4633 | 669 |
| 10633 | 91.54 | 359.25 | 4855.64 | 6132.51 | -60.92 | 6132.80 | 0.87 | 2291 | 6332 | 4632 | 669 |
| 10729 | 90.40 | 359.12 | 4854.02 | 6228.48 | -62.29 | 6228.78 | 1.20 | 2195 | 6428 | 4631 | 670 |
| 10824 | 89.48 | 358.18 | 4854.12 | 6323.45 | -64.53 | 6323.77 | 1.38 | 2100 | 6523 | 4630 | 671 |
| 10920 | 90.03 | 357.75 | 4854.53 | 6419.39 | -67.94 | 6419.73 | 0.73 | 2004 | 6619 | 4627 | 674 |
| 11015 | 89.94 | 357.65 | 4854.55 | 6514.32 | -71.75 | 6514.69 | 0.14 | 1909 | 6714 | 4624 | 677 |
| 11110 | 90.62 | 357.61 | 4854.09 | 6609.23 | -75.68 | 6609.63 | 0.72 | 1814 | 6809 | 4621 | 680 |
| 11206 | 91.35 | 356.38 | 4852.44 | 6705.08 | -80.71 | 6705.52 | 1.49 | 1718 | 6905 | 4616 | 684 |
| 11303 | 91.76 | 356.79 | 4849.81 | 6801.88 | -86.48 | 6802.36 | 0.60 | 1621 | 7002 | 4611 | 689 |
| 11398 | 90.06 | 357.55 | 4848.30 | 6896.74 | -91.17 | 6897.26 | 1.96 | 1526 | 7097 | 4607 | 693 |
| 11494 | 89.82 | 358.16 | 4848.40 | 6992.68 | -94.77 | 6993.22 | 0.68 | 1430 | 7193 | 4604 | 696 |
| 11588 | 90.62 | 357.50 | 4848.04 | 7086.61 | -98.33 | 7087.18 | 1.10 | 1336 | 7287 | 4601 | 699 |
| 11683 | 90.95 | 357.61 | 4846.74 | 7181.51 | -102.38 | 7182.11 | 0.37 | 1241 | 7382 | 4598 | 702 |
| 11779 | 90.30 | 357.67 | 4845.69 | 7277.43 | -106.16 | 7278.06 | 0.73 | 1146 | 7478 | 4594 | 705 |
| 11875 | 89.40 | 358.29 | 4845.94 | 7373.37 | -109.38 | 7374.03 | 1.03 | 1050 | 7574 | 4592 | 707 |
| 11971 | 89.90 | 357.97 | 4846.53 | 7469.32 | -112.51 | 7470.00 | 0.62 | 954 | 7670 | 4589 | 710 |
| 12067 | 89.50 | 357.61 | 4847.03 | 7565.25 | -116.21 | 7565.95 | 0.56 | 858 | 7766 | 4586 | 712 |
| 12104 | 90.60 | 357.68 | 4846.94 | 7602.16 | -120.22 | 7662.90 | 1.14 | 761 | 7863 | 4583 | 716 |
| 12258 | 90.90 | 356.79 | 4845.71 | 7756.04 | -124.77 | 7756.81 | 0.98 | 667 | 7956 | 4579 | 719 |
| 12354 | 91.40 | 356.88 | 4843.79 | 7851.88 | -130.07 | 7852.69 | 0.53 | 571 | 8052 | 4574 | 724 |
| 12449 | 91.90 | 356.75 | 4841.05 | 7946.69 | -135.34 | 7947.54 | 0.54 | 476 | 8147 | 4570 | 728 |
| 12546 | 92.50 | 356.81 | 4837.33 | 8043.47 | -140.79 | 8044.36 | 0.62 | 379 | 8244 | 4565 | 733 |
| 12642 | 93.03 | 356.74 | 4834.26 | 8138.93 | -146.12 | 8139.86 | 0.66 | 284 | 8340 | 4560 | 738 |