## Chappell, Michelle

**From:** OGRegulatory
**Subject:** FW: First Sales Notification: University 7-0213 N 05SC
**Attachments:** University 7-0213 N 05SC Crescent Final Surveys 11-7-16.pdf; University 7-0213 N 05SC Crescent Final Surveys 11-7-16.xlsx; University 7-0213 N 05SC - Perf Sheet.xlsx

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**From:** Melissa Luke [mailto:Melissa.Luke@qepres.com]
**Sent:** Thursday, February 23, 2017 3:00 PM
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**Subject:** First Sales Notification: University 7-0213 N 05SC

Hello –

Please note that the above well went on production on **2/18/2017**. Please find the attached directional surveys and perf sheets.

The **University 7-0213 N 05SC** was completed as an oil well.

It was perforated from 9,760' – 19,637'

Both oil and gas are to be reported.

If you have any questions or need anything further, please let me know.

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|---|---|---|---|---|---|
| **Toe Sleeve** | | 19,567 | | **Well:** | University 7-0213 N 05SC |
| **Top Perf** | | 9,760 | Deepest of red box depths | **Prop/Ft:** | **1,400** **lbs/ft** |
| **Stgs=** | 67 | 9,807 | lat length | **Prop/Stg:** | **204,929** **lbs/stg** |
| **Dist btw Perfs** | | 30 | | **Stage Spacing:** | 148 |
| **Dist btw Perf/Plug** | | 15 | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Stage 1** | Plug | - | | **Stage 2** | Plug | 19,515 | | **Stage 3** | Plug | 19,367 | | Holes |
| | RSI | 19,567 - | 19,542 | | Perf 1 | 19,500 - | 19,498 | | Perf 1 | 19,352 - | 19,350 | 12 |
| | | 19,637 - | 19,611 | | Perf 2 | 19,470 - | 19,468 | | Perf 2 | 19,322 - | 19,320 | 12 |
| | | | | | Perf 3 | 19,441 - | 19,439 | | Perf 3 | 19,293 - | 19,291 | 12 |
| | | | | | Perf 4 | 19,411 - | 19,409 | | Perf 4 | 19,263 - | 19,261 | 12 |
| | | | | | Perf 5 | 19,381 - | 19,379 | | Perf 5 | 19,233 - | 19,231 | 12 |
| **Stage 4** | Plug | 19,219 | | **Stage 5** | Plug | 19,071 | | **Stage 6** | Plug | 18,923 | | |
| | Perf 1 | 19,204 - | 19,202 | | Perf 1 | 19,056 - | 19,054 | | Perf 1 | 18,908 - | 18,906 | |
| | Perf 2 | 19,174 - | 19,172 | | Perf 2 | 19,026 - | 19,024 | | Perf 2 | 18,878 - | 18,876 | |
| | Perf 3 | 19,145 - | 19,143 | | Perf 3 | 18,997 - | 18,995 | | Perf 3 | 18,849 - | 18,847 | |
| | Perf 4 | 19,115 - | 19,113 | | Perf 4 | 18,967 - | 18,965 | | Perf 4 | 18,819 - | 18,817 | |
| | Perf 5 | 19,085 - | 19,083 | | Perf 5 | 18,937 - | 18,935 | | Perf 5 | 18,789 - | 18,787 | |
| **Stage 7** | Plug | 18,775 | | **Stage 8** | Plug | 18,627 | | **Stage 9** | Plug | 18,479 | | |
| | Perf 1 | 18,760 - | 18,758 | | Perf 1 | 18,612 - | 18,610 | | Perf 1 | 18,464 - | 18,462 | |
| | Perf 2 | 18,730 - | 18,728 | | Perf 2 | 18,582 - | 18,580 | | Perf 2 | 18,434 - | 18,432 | |
| | Perf 3 | 18,701 - | 18,699 | | Perf 3 | 18,553 - | 18,551 | | Perf 3 | 18,405 - | 18,403 | |
| | Perf 4 | 18,671 - | 18,669 | | Perf 4 | 18,523 - | 18,521 | | Perf 4 | 18,375 - | 18,373 | |
| | Perf 5 | 18,641 - | 18,639 | | Perf 5 | 18,493 - | 18,491 | | Perf 5 | 18,345 - | 18,343 | |
| **Stage 10** | Plug | 18,331 | | **Stage 11** | Plug | 18,183 | | **Stage 12** | Plug | 18,035 | | |
| | Perf 1 | 18,316 - | 18,314 | | Perf 1 | 18,168 - | 18,166 | | Perf 1 | 18,020 - | 18,018 | |
| | Perf 2 | 18,286 - | 18,284 | | Perf 2 | 18,138 - | 18,136 | | Perf 2 | 17,990 - | 17,988 | |
| | Perf 3 | 18,257 - | 18,255 | | Perf 3 | 18,109 - | 18,107 | | Perf 3 | 17,961 - | 17,959 | |
| | Perf 4 | 18,227 - | 18,225 | | Perf 4 | 18,079 - | 18,077 | | Perf 4 | 17,931 - | 17,929 | |
| | Perf 5 | 18,197 - | 18,195 | | Perf 5 | 18,050 - | 18,048 | | Perf 5 | 17,902 - | 17,900 | |
| **Stage 13** | Plug | 17,887 | | **Stage 14** | Plug | 17,739 | | **Stage 15** | Plug | 17,591 | | |
| | Perf 1 | 17,872 - | 17,870 | | Perf 1 | 17,724 - | 17,722 | | Perf 1 | 17,576 - | 17,574 | |
| | Perf 2 | 17,842 - | 17,840 | | Perf 2 | 17,694 - | 17,692 | | Perf 2 | 17,546 - | 17,544 | |
| | Perf 3 | 17,813 - | 17,811 | | Perf 3 | 17,665 - | 17,663 | | Perf 3 | 17,517 - | 17,515 | |
| | Perf 4 | 17,783 - | 17,781 | | Perf 4 | 17,635 - | 17,633 | | Perf 4 | 17,487 - | 17,485 | |
| | Perf 5 | 17,754 - | 17,752 | | Perf 5 | 17,606 - | 17,604 | | Perf 5 | 17,458 - | 17,456 | |
| **Stage 16** | Plug | 17,443 | | **Stage 17** | Plug | 17,295 | | **Stage 18** | Plug | 17,147 | | |
| | Perf 1 | 17,428 - | 17,426 | | Perf 1 | 17,280 - | 17,278 | | Perf 1 | 17,132 - | 17,130 | |
| | Perf 2 | 17,398 - | 17,396 | | Perf 2 | 17,250 - | 17,248 | | Perf 2 | 17,102 - | 17,100 | |
| | Perf 3 | 17,369 - | 17,367 | | Perf 3 | 17,221 - | 17,219 | | Perf 3 | 17,073 - | 17,071 | |
| | Perf 4 | 17,339 - | 17,337 | | Perf 4 | 17,191 - | 17,189 | | Perf 4 | 17,043 - | 17,041 | |
| | Perf 5 | 17,310 - | 17,308 | | Perf 5 | 17,162 - | 17,160 | | Perf 5 | 17,014 - | 17,012 | |
| **Stage 19** | Plug | 16,999 | | **Stage 20** | Plug | 16,851 | | **Stage 21** | Plug | 16,703 | | |
| | Perf 1 | 16,984 - | 16,982 | | Perf 1 | 16,836 - | 16,834 | | Perf 1 | 16,688 - | 16,686 | |
| | Perf 2 | 16,954 - | 16,952 | | Perf 2 | 16,806 - | 16,804 | | Perf 2 | 16,658 - | 16,656 | |
| | Perf 3 | 16,925 - | 16,923 | | Perf 3 | 16,777 - | 16,775 | | Perf 3 | 16,629 - | 16,627 | |
| | Perf 4 | 16,895 - | 16,893 | | Perf 4 | 16,747 - | 16,745 | | Perf 4 | 16,599 - | 16,597 | |
| | Perf 5 | 16,866 - | 16,864 | | Perf 5 | 16,718 - | 16,716 | | Perf 5 | 16,570 - | 16,568 | |
| **Stage 22** | Plug | 16,555 | | **Stage 23** | Plug | 16,407 | | **Stage 24** | Plug | 16,259 | | |
| | Perf 1 | 16,540 - | 16,538 | | Perf 1 | 16,392 - | 16,390 | | Perf 1 | 16,244 - | 16,242 | |
| | Perf 2 | 16,510 - | 16,508 | | Perf 2 | 16,362 - | 16,360 | | Perf 2 | 16,214 - | 16,212 | |
| | Perf 3 | 16,481 - | 16,479 | | Perf 3 | 16,333 - | 16,331 | | Perf 3 | 16,185 - | 16,183 | |
| | Perf 4 | 16,451 - | 16,449 | | Perf 4 | 16,303 - | 16,301 | | Perf 4 | 16,155 - | 16,153 | |
| | Perf 5 | 16,422 - | 16,420 | | Perf 5 | 16,274 - | 16,272 | | Perf 5 | 16,126 - | 16,124 | |
| **Stage 25** | Plug | 16,111 | | **Stage 26** | Plug | 15,963 | | **Stage 27** | Plug | 15,815 | | |

| | | | |
|---|---|---|---|
| 1.041666667 | bbls/perf (50 BPM) | | |
| 1.25 | bbls/perf (60 BPM) | | |
| 1.458333333 | bbls/perf (70 BPM) | | |

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|---|---|---|---|
| Formation Top | 9,760 | MD | Choose the deeper of |
| 70° @ | 9,645 | MD | these for Top of Formation (D2) |
| Perf Hardline | 9,200 | MD | *Input to D2 Automatically* |
| Perf Hardline + 10' | 9,210 | MD | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Perf 1 | 16,096 - | 16,094 | | Perf 1 | 15,948 - | 15,946 | | Perf 1 | 15,800 - | 15,798 |
| | Perf 2 | 16,066 - | 16,064 | | Perf 2 | 15,918 - | 15,916 | | Perf 2 | 15,770 - | 15,768 |
| | Perf 3 | 16,037 - | 16,035 | | Perf 3 | 15,889 - | 15,887 | | Perf 3 | 15,741 - | 15,739 |
| | Perf 4 | 16,007 - | 16,005 | | Perf 4 | 15,859 - | 15,857 | | Perf 4 | 15,711 - | 15,709 |
| | Perf 5 | 15,978 - | 15,976 | | Perf 5 | 15,830 - | 15,828 | | Perf 5 | 15,682 - | 15,680 |
| **Stage 28** | Plug | 15,667 | | **Stage 29** | Plug | 15,519 | | **Stage 30** | Plug | 15,371 | |
| | Perf 1 | 15,652 - | 15,650 | | Perf 1 | 15,504 - | 15,502 | | Perf 1 | 15,356 - | 15,354 |
| | Perf 2 | 15,622 - | 15,620 | | Perf 2 | 15,474 - | 15,472 | | Perf 2 | 15,326 - | 15,324 |
| | Perf 3 | 15,593 - | 15,591 | | Perf 3 | 15,445 - | 15,443 | | Perf 3 | 15,297 - | 15,295 |
| | Perf 4 | 15,563 - | 15,561 | | Perf 4 | 15,415 - | 15,413 | | Perf 4 | 15,267 - | 15,265 |
| | Perf 5 | 15,534 - | 15,532 | | Perf 5 | 15,386 - | 15,384 | | Perf 5 | 15,238 - | 15,236 |
| **Stage 31** | Plug | 15,223 | | **Stage 32** | Plug | 15,075 | | **Stage 33** | Plug | 14,927 | |
| | Perf 1 | 15,208 - | 15,206 | | Perf 1 | 15,060 - | 15,058 | | Perf 1 | 14,912 - | 14,910 |
| | Perf 2 | 15,178 - | 15,176 | | Perf 2 | 15,030 - | 15,028 | | Perf 2 | 14,882 - | 14,880 |
| | Perf 3 | 15,149 - | 15,147 | | Perf 3 | 15,001 - | 14,999 | | Perf 3 | 14,853 - | 14,851 |
| | Perf 4 | 15,119 - | 15,117 | | Perf 4 | 14,971 - | 14,969 | | Perf 4 | 14,823 - | 14,821 |
| | Perf 5 | 15,090 - | 15,088 | | Perf 5 | 14,942 - | 14,940 | | Perf 5 | 14,794 - | 14,792 |
| **Stage 34** | Plug | 14,779 | | **Stage 35** | Plug | 14,631 | | **Stage 36** | Plug | 14,483 | |
| | Perf 1 | 14,764 - | 14,762 | | Perf 1 | 14,616 - | 14,614 | | Perf 1 | 14,468 - | 14,466 |
| | Perf 2 | 14,735 - | 14,733 | | Perf 2 | 14,587 - | 14,585 | | Perf 2 | 14,439 - | 14,437 |
| | Perf 3 | 14,705 - | 14,703 | | Perf 3 | 14,557 - | 14,555 | | Perf 3 | 14,409 - | 14,407 |
| | Perf 4 | 14,675 - | 14,673 | | Perf 4 | 14,527 - | 14,525 | | Perf 4 | 14,379 - | 14,377 |
| | Perf 5 | 14,646 - | 14,644 | | Perf 5 | 14,498 - | 14,496 | | Perf 5 | 14,350 - | 14,348 |
| **Stage 37** | Plug | 14,335 | | **Stage 38** | Plug | 14,187 | | **Stage 39** | Plug | 14,039 | |
| | Perf 1 | 14,320 - | 14,318 | | Perf 1 | 14,172 - | 14,170 | | Perf 1 | 14,024 - | 14,022 |
| | Perf 2 | 14,291 - | 14,289 | | Perf 2 | 14,143 - | 14,141 | | Perf 2 | 13,995 - | 13,993 |
| | Perf 3 | 14,261 - | 14,259 | | Perf 3 | 14,113 - | 14,111 | | Perf 3 | 13,965 - | 13,963 |
| | Perf 4 | 14,231 - | 14,229 | | Perf 4 | 14,083 - | 14,081 | | Perf 4 | 13,935 - | 13,933 |
| | Perf 5 | 14,202 - | 14,200 | | Perf 5 | 14,054 - | 14,052 | | Perf 5 | 13,906 - | 13,904 |
| **Stage 40** | Plug | 13,891 | | **Stage 41** | Plug | 13,743 | | **Stage 42** | Plug | 13,595 | |
| | Perf 1 | 13,876 - | 13,874 | | Perf 1 | 13,728 - | 13,726 | | Perf 1 | 13,580 - | 13,578 |
| | Perf 2 | 13,847 - | 13,845 | | Perf 2 | 13,699 - | 13,697 | | Perf 2 | 13,551 - | 13,549 |
| | Perf 3 | 13,817 - | 13,815 | | Perf 3 | 13,669 - | 13,667 | | Perf 3 | 13,521 - | 13,519 |
| | Perf 4 | 13,787 - | 13,785 | | Perf 4 | 13,639 - | 13,637 | | Perf 4 | 13,491 - | 13,489 |
| | Perf 5 | 13,758 - | 13,756 | | Perf 5 | 13,610 - | 13,608 | | Perf 5 | 13,462 - | 13,460 |
| **Stage 43** | Plug | 13,447 | | **Stage 44** | Plug | 13,299 | | **Stage 45** | Plug | 13,151 | |
| | Perf 1 | 13,432 - | 13,430 | | Perf 1 | 13,284 - | 13,282 | | Perf 1 | 13,136 - | 13,134 |
| | Perf 2 | 13,403 - | 13,401 | | Perf 2 | 13,255 - | 13,253 | | Perf 2 | 13,107 - | 13,105 |
| | Perf 3 | 13,373 - | 13,371 | | Perf 3 | 13,225 - | 13,223 | | Perf 3 | 13,077 - | 13,075 |
| | Perf 4 | 13,343 - | 13,341 | | Perf 4 | 13,195 - | 13,193 | | Perf 4 | 13,047 - | 13,045 |
| | Perf 5 | 13,314 - | 13,312 | | Perf 5 | 13,166 - | 13,164 | | Perf 5 | 13,018 - | 13,016 |
| **Stage 46** | Plug | 13,003 | | **Stage 47** | Plug | 12,855 | | **Stage 48** | Plug | 12,707 | |
| | Perf 1 | 12,988 - | 12,986 | | Perf 1 | 12,840 - | 12,838 | | Perf 1 | 12,692 - | 12,690 |
| | Perf 2 | 12,959 - | 12,957 | | Perf 2 | 12,811 - | 12,809 | | Perf 2 | 12,663 - | 12,661 |
| | Perf 3 | 12,929 - | 12,927 | | Perf 3 | 12,781 - | 12,779 | | Perf 3 | 12,633 - | 12,631 |
| | Perf 4 | 12,899 - | 12,897 | | Perf 4 | 12,751 - | 12,749 | | Perf 4 | 12,603 - | 12,601 |
| | Perf 5 | 12,870 - | 12,868 | | Perf 5 | 12,722 - | 12,720 | | Perf 5 | 12,574 - | 12,572 |
| **Stage 49** | Plug | 12,559 | | **Stage 50** | Plug | 12,411 | | **Stage 51** | Plug | 12,263 | |
| | Perf 1 | 12,544 - | 12,542 | | Perf 1 | 12,396 - | 12,394 | | Perf 1 | 12,248 - | 12,246 |
| | Perf 2 | 12,515 - | 12,513 | | Perf 2 | 12,367 - | 12,365 | | Perf 2 | 12,219 - | 12,217 |
| | Perf 3 | 12,485 - | 12,483 | | Perf 3 | 12,337 - | 12,335 | | Perf 3 | 12,189 - | 12,187 |
| | Perf 4 | 12,455 - | 12,453 | | Perf 4 | 12,307 - | 12,305 | | Perf 4 | 12,159 - | 12,157 |
| | Perf 5 | 12,426 - | 12,424 | | Perf 5 | 12,278 - | 12,276 | | Perf 5 | 12,130 - | 12,128 |
| **Stage 52** | Plug | 12,115 | | **Stage 53** | Plug | 11,967 | | **Stage 54** | Plug | 11,819 | |
| | Perf 1 | 12,100 - | 12,098 | | Perf 1 | 11,952 - | 11,950 | | Perf 1 | 11,804 - | 11,802 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Perf 2 | 12,071 | - | 12,069 | | Perf 2 | 11,923 | - | 11,921 | | Perf 2 | 11,775 | - | 11,773 |
| | Perf 3 | 12,041 | - | 12,039 | | Perf 3 | 11,893 | - | 11,891 | | Perf 3 | 11,745 | - | 11,743 |
| | Perf 4 | 12,011 | - | 12,009 | | Perf 4 | 11,863 | - | 11,861 | | Perf 4 | 11,715 | - | 11,713 |
| | Perf 5 | 11,982 | - | 11,980 | | Perf 5 | 11,834 | - | 11,832 | | Perf 5 | 11,686 | - | 11,684 |
| **Stage 55** | Plug | 11,671 | | | **Stage 56** | Plug | 11,523 | | | **Stage 57** | Plug | 11,375 | | |
| | Perf 1 | 11,656 | - | 11,654 | | Perf 1 | 11,508 | - | 11,506 | | Perf 1 | 11,360 | - | 11,358 |
| | Perf 2 | 11,627 | - | 11,625 | | Perf 2 | 11,479 | - | 11,477 | | Perf 2 | 11,331 | - | 11,329 |
| | Perf 3 | 11,597 | - | 11,595 | | Perf 3 | 11,449 | - | 11,447 | | Perf 3 | 11,301 | - | 11,299 |
| | Perf 4 | 11,567 | - | 11,565 | | Perf 4 | 11,420 | - | 11,418 | | Perf 4 | 11,272 | - | 11,270 |
| | Perf 5 | 11,538 | - | 11,536 | | Perf 5 | 11,390 | - | 11,388 | | Perf 5 | 11,242 | - | 11,240 |
| **Stage 58** | Plug | 11,227 | | | **Stage 59** | Plug | 11,079 | | | **Stage 60** | Plug | 10,931 | | |
| | Perf 1 | 11,212 | - | 11,210 | | Perf 1 | 11,064 | - | 11,062 | | Perf 1 | 10,916 | - | 10,914 |
| | Perf 2 | 11,183 | - | 11,181 | | Perf 2 | 11,035 | - | 11,033 | | Perf 2 | 10,887 | - | 10,885 |
| | Perf 3 | 11,153 | - | 11,151 | | Perf 3 | 11,005 | - | 11,003 | | Perf 3 | 10,857 | - | 10,855 |
| | Perf 4 | 11,124 | - | 11,122 | | Perf 4 | 10,976 | - | 10,974 | | Perf 4 | 10,828 | - | 10,826 |
| | Perf 5 | 11,094 | - | 11,092 | | Perf 5 | 10,946 | - | 10,944 | | Perf 5 | 10,798 | - | 10,796 |
| **Stage 61** | Plug | 10,783 | | | **Stage 62** | Plug | 10,635 | | | **Stage 63** | Plug | 10,487 | | |
| | Perf 1 | 10,768 | - | 10,766 | | Perf 1 | 10,620 | - | 10,618 | | Perf 1 | 10,472 | - | 10,470 |
| | Perf 2 | 10,739 | - | 10,737 | | Perf 2 | 10,591 | - | 10,589 | | Perf 2 | 10,443 | - | 10,441 |
| | Perf 3 | 10,709 | - | 10,707 | | Perf 3 | 10,561 | - | 10,559 | | Perf 3 | 10,413 | - | 10,411 |
| | Perf 4 | 10,680 | - | 10,678 | | Perf 4 | 10,532 | - | 10,530 | | Perf 4 | 10,384 | - | 10,382 |
| | Perf 5 | 10,650 | - | 10,648 | | Perf 5 | 10,502 | - | 10,500 | | Perf 5 | 10,354 | - | 10,352 |
| **Stage 64** | Plug | 10,339 | | | **Stage 65** | Plug | 10,191 | | | **Stage 66** | Plug | 10,043 | | |
| | Perf 1 | 10,324 | - | 10,322 | | Perf 1 | 10,176 | - | 10,174 | | Perf 1 | 10,028 | - | 10,026 |
| | Perf 2 | 10,295 | - | 10,293 | | Perf 2 | 10,147 | - | 10,145 | | Perf 2 | 9,999 | - | 9,997 |
| | Perf 3 | 10,265 | - | 10,263 | | Perf 3 | 10,117 | - | 10,115 | | Perf 3 | 9,969 | - | 9,967 |
| | Perf 4 | 10,236 | - | 10,234 | | Perf 4 | 10,088 | - | 10,086 | | Perf 4 | 9,940 | - | 9,938 |
| | Perf 5 | 10,206 | - | 10,204 | | Perf 5 | 10,058 | - | 10,056 | | Perf 5 | 9,910 | - | 9,908 |
| **Stage 67** | Plug | 9,895 | | | | | | | | | | | | |
| | Perf 1 | 9,880 | - | 9,878 | | | | | | | | | | |
| | Perf 2 | 9,851 | - | 9,849 | | | | | | | | | | |
| | Perf 3 | 9,821 | - | 9,819 | | | | | | | | | | |
| | Perf 4 | 9,792 | - | 9,790 | | | | | | | | | | |
| | Perf 5 | 9,762 | - | 9,760 | | | | | | | | | | |

← Goal Seek to D2 value by modifying D4