

# Schlumberger

Reservoir Development  
Drilling & Measurements (Anadrill)  
4301 SW 44th St  
Oklahoma City, Oklahoma 73119 USA  
Phone: (405) 682-2284  
Fax: (405) 682-3937

HOBBSD

October 16, 2013

DEC 22 2014

Cimarex  
600 N MARIENFELD STREET SUITE 600

RECEIVED

MIDLAND, TX 79701

Re:

C-S29-T23S-R32E 185FNL 1880 FWL  
N 32.28229 W 103.69910

CLIENT: Cimarex Energy Co. of Colorado  
WELL: James Federal 20H ST01  
FIELD: Sand Dunes, Bone Spring, South  
RIG: NorAm 23  
COUNTY: Lea  
API NO: 30-025-41251-01  
JOB NO: 13MLD0386

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, a division of Schlumberger Technology Corporation.  
Other information required by your office is as follows.

| <u>Name &amp; Title of<br/>Surveyor</u> | <u>Drainhole Number</u>              | <u>Surveyed Depths</u>       | <u>Dates Performed</u>                   | <u>Type of Survey</u> |
|-----------------------------------------|--------------------------------------|------------------------------|------------------------------------------|-----------------------|
| Ogechi Chima<br>MWD                     | James Federal 20H ST01<br>Side Track | 8937.00 Ft to<br>13985.00 Ft | September 22, 2013 to<br>October 9, 2013 | SlimPulse             |

If any other information is required, please contact the undersigned at the above letterhead and phone number.  
Sincerely,

Joe Hogan  
Field Service Manager

DEC 22 2014

**Reservoir Development**

Drilling &amp; Measurements (Anadrill)

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Oklahoma City, Oklahoma 73119 USA

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**Well Reference:**

C-S29-T23S-R32E 185FNL 1880 FWL

N 32.28229 W 103.69910

I, Ogechi Chima certify that; I am employed by Drilling & Measurements (formerly Anadrill), a division of Schlumberger Technology Corporation; that I did on the day(s) of September 22, 2013 through October 09, 2013, conduct or supervise the taking of the SlimPulse surveys from a depth of 8937.00 feet to a depth of 13985.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of Cimarex Energy Co. of Colorado for the James Federal 20H ST01 Well (Side Track) API No. 30-025-41251-01 and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

By  
Ogechi Chima  
MWD

*[Signature]* Oluma Pozo on behalf of  
Ogechi Chima

Subscribed and Sworn to before me this 16<sup>th</sup> day of October (month) 2013 (yr)

My Commission expires:

September 5, 2016Michelle Ellwood

Notary Public

Midland, Texas

(County State)



SCHLUMBERGER  
Survey Report

31-Oct-2013

Client..... Climarex Energy CO.  
Field..... PB - Red Tank

Well..... James Federal R20H ST01  
API Number..... 30-025-41251-01  
Engineer..... Ogechi Chima

Spud date..... 7-Sep-13  
Last survey date..... 9-Oct-13  
Total accepted surveys..... 74  
MD of first survey..... 8937.00 ft  
MD of last survey..... 13985.00 ft

County..... Lea  
State..... New Mexico  
Rig..... NorAm 23

Latitude..... 32° 16' 56.256" N  
Longitude..... 103° 41' 56.775" W

Survey calculation methods.....  
Method for positions..... Minimum curvature  
Method for DLS..... Lubinski

Depth reference.....  
Permanent datum..... MSL  
Depth reference..... Driller's Depth  
GL above permanent..... 3685.00  
KB above permanent..... 3713.00  
DB above permanent..... 3713.00

Vertical section origin.....  
Latitude (+N/-)..... 0.00 ft  
Departure (+E/W-)..... 0.00 ft

Grid Coordinates.....  
NAD27 Texas State Plane, Central Zone, US Feet  
X..... 467010.50 ft  
Y..... 737338.00 ft

Azimuth from Vsect Origin to target: 178.45 degrees

NWDD Survey Reference Criteria

Run1..... Calculation Date: 1-Oct-2013  
Location G..... 998.94325 mgn  
Location B..... 48367.63 nT  
Magnetic Dip: 60.1151 degrees  
Tolerance G..... 2.50 mgn  
Tolerance B..... 300.00 nT  
Tolerance Dip: 0.45 degrees

Run2..... Calculation Date: 4-Oct-2013  
Location G..... 998.94325 mgn  
Location B..... 48366.57 nT  
Magnetic Dip: 60.1148 degrees  
Tolerance G..... 2.50 mgn  
Tolerance B..... 300.00 nT  
Tolerance Dip: 0.45 degrees

Run3..... Calculation Date: 6-Oct-2013  
Location G..... 998.94325 mgn  
Location B..... 48365.87 nT  
Magnetic Dip: 60.1147 degrees  
Tolerance G..... 2.50 mgn  
Tolerance B..... 300.00 nT  
Tolerance Dip: 0.45 degrees

Run4..... Calculation Date: 8-Oct-2013  
Location G..... 998.94325 mgn  
Location B..... 48365.17 nT  
Magnetic Dip: 60.1145 degrees  
Tolerance G..... 2.50 mgn  
Tolerance B..... 300.00 nT  
Tolerance Dip: 0.45 degrees

BGGM Model: 2013

Run1.....  
Magnetic dec (+E/W-)..... 7.4754 degrees  
Grid Conv (+E/W-)..... 0.3354 degrees  
Total Azim Corr (+E/W-)..... 7.14 degrees

Run2.....  
Magnetic dec (+E/W-)..... 7.4745 degrees  
Grid Conv (+E/W-)..... 0.3345 degrees  
Total Azim Corr (+E/W-)..... 7.14 degrees

Run3.....  
Magnetic dec (+E/W-)..... 7.4736 degrees  
Grid Conv (+E/W-)..... 0.3338 degrees  
Total Azim Corr (+E/W-)..... 7.14 degrees

Run4.....  
Magnetic dec (+E/W-)..... 7.4731 degrees  
Grid Conv (+E/W-)..... 0.3432 degrees  
Total Azim Corr (+E/W-)..... 7.13 degrees

## Survey Correction Index Description

0 = Uncorrected 1 = Sag Corrected

2 = DMAG Corrected 3 = Sag + DMAG Corrected

| Survey List |            |               |               |                |             |               |             |             |                 |                 |                    |       |            |
|-------------|------------|---------------|---------------|----------------|-------------|---------------|-------------|-------------|-----------------|-----------------|--------------------|-------|------------|
| Seq         | MD<br>(ft) | Incl<br>(deg) | Azim<br>(deg) | Course<br>(ft) | TVD<br>(ft) | V Sec<br>(ft) | N/S<br>(ft) | E/W<br>(ft) | Closure<br>(ft) | at Azi<br>(deg) | DLS<br>(deg/100ft) | Tool  | Correction |
| 1           | 0.00       | 0.00          | 0.00          | -999.25        | 0.00        | 0.00          | 0.00        | 0.00        | 0               | 90.00           | 0.00               | TIP   | 0          |
| 2           | 85.08      | 0.31          | 12.67         | 85.08          | 85.08       | -0.22         | 0.22        | 0.05        | 0.23            | 12.67           | 0.36               | Other | 0          |
| 3           | 226.77     | 0.40          | 96.87         | 141.69         | 226.77      | -0.52         | 0.54        | 0.63        | 0.83            | 49.23           | 0.34               | Other | 0          |
| 4           | 324.47     | 0.22          | 109.18        | 97.70          | 324.47      | -0.41         | 0.44        | 1.14        | 1.22            | 69.05           | 0.20               | Other | 0          |
| 5           | 431.74     | 0.09          | 46.55         | 107.27         | 431.74      | -0.39         | 0.43        | 1.40        | 1.46            | 73.00           | 0.18               | Other | 0          |
| 6           | 547.53     | 0.09          | 219.35        | 115.79         | 547.53      | -0.38         | 0.42        | 1.41        | 1.47            | 73.38           | 0.16               | Other | 0          |
| 7           | 668.00     | 0.40          | 287.07        | 120.47         | 667.99      | -0.44         | 0.47        | 0.94        | 1.05            | 63.53           | 0.31               | Other | 0          |
| 8           | 760.00     | 0.70          | 283.16        | 92.00          | 759.99      | -0.69         | 0.69        | 0.09        | 0.7             | 7.34            | 0.33               | Other | 0          |
| 9           | 850.45     | 0.62          | 283.95        | 90.45          | 850.43      | -0.96         | 0.94        | -0.92       | 1.31            | 315.37          | 0.09               | Other | 0          |
| 10          | 944.47     | 1.01          | 288.47        | 94.02          | 944.44      | -1.38         | 1.32        | -2.20       | 2.57            | 300.94          | 0.42               | Other | 0          |
| 11          | 1040.69    | 1.19          | 278.15        | 96.22          | 1040.65     | -1.84         | 1.73        | -4.00       | 4.36            | 293.42          | 0.28               | Other | 0          |
| 12          | 1134.82    | 1.32          | 279.77        | 94.13          | 1134.75     | -2.22         | 2.05        | -6.03       | 6.37            | 288.80          | 0.14               | Other | 0          |
| 13          | 1226.90    | 0.79          | 274.37        | 92.08          | 1226.82     | -2.49         | 2.28        | -7.71       | 8.04            | 286.49          | 0.58               | Other | 0          |
| 14          | 1349.54    | 0.88          | 278.37        | 122.64         | 1349.45     | -2.74         | 2.48        | -9.49       | 9.81            | 284.67          | 0.09               | Other | 0          |
| 15          | 1444.28    | 0.88          | 298.84        | 94.74          | 1444.17     | -3.23         | 2.94        | -10.84      | 11.23           | 285.17          | 0.33               | Other | 0          |
| 16          | 1536.07    | 1.01          | 297.04        | 91.79          | 1535.95     | -3.98         | 3.65        | -12.18      | 12.72           | 286.67          | 0.15               | Other | 0          |
| 17          | 1632.22    | 1.10          | 286.36        | 96.15          | 1632.09     | -4.67         | 4.29        | -13.82      | 14.47           | 287.26          | 0.22               | Other | 0          |
| 18          | 1726.50    | 1.01          | 295.15        | 94.28          | 1726.35     | -5.32         | 4.90        | -15.44      | 16.2            | 287.61          | 0.20               | Other | 0          |
| 19          | 1820.48    | 0.88          | 278.06        | 93.98          | 1820.32     | -5.81         | 5.35        | -16.91      | 17.73           | 287.57          | 0.33               | Other | 0          |
| 20          | 1914.16    | 0.88          | 282.98        | 93.68          | 1913.99     | -6.11         | 5.62        | -18.32      | 19.16           | 287.05          | 0.08               | Other | 0          |
| 21          | 2008.20    | 1.10          | 275.95        | 94.04          | 2008.01     | -6.41         | 5.87        | -19.92      | 20.77           | 286.43          | 0.27               | Other | 0          |
| 22          | 2102.20    | 1.01          | 280.17        | 94.00          | 2102.00     | -6.70         | 6.11        | -21.63      | 22.48           | 285.78          | 0.13               | Other | 0          |
| 23          | 2293.00    | 1.01          | 275.47        | 190.80         | 2292.77     | -7.24         | 6.57        | -24.96      | 25.81           | 284.75          | 0.04               | Other | 0          |
| 24          | 2387.56    | 1.19          | 290.76        | 94.56          | 2387.31     | -7.72         | 7.00        | -26.71      | 27.61           | 284.68          | 0.36               | Other | 0          |
| 25          | 2481.54    | 1.32          | 288.96        | 93.98          | 2481.27     | -8.47         | 7.69        | -28.65      | 29.66           | 285.04          | 0.14               | Other | 0          |
| 26          | 2574.74    | 1.10          | 276.74        | 93.20          | 2574.45     | -8.97         | 8.15        | -30.55      | 31.62           | 284.93          | 0.36               | Other | 0          |
| 27          | 2669.84    | 1.40          | 285.97        | 95.10          | 2669.52     | -9.46         | 8.58        | -32.57      | 33.68           | 284.75          | 0.38               | Other | 0          |
| 28          | 2763.45    | 1.19          | 287.86        | 93.61          | 2763.11     | -10.12        | 9.19        | -34.60      | 35.8            | 284.87          | 0.23               | Other | 0          |
| 29          | 3045.50    | 1.58          | 302.27        | 282.05         | 3045.08     | -13.26        | 12.16       | -40.67      | 42.45           | 286.65          | 0.18               | Other | 0          |
| 30          | 3138.97    | 1.49          | 295.15        | 93.47          | 3138.51     | -14.52        | 13.37       | -42.86      | 44.9            | 287.32          | 0.23               | Other | 0          |
| 31          | 3236.99    | 1.41          | 306.45        | 98.02          | 3236.50     | -15.84        | 14.63       | -44.99      | 47.3            | 288.01          | 0.30               | Other | 0          |
| 32          | 3330.55    | 1.49          | 303.46        | 93.56          | 3330.03     | -17.25        | 15.98       | -46.93      | 49.57           | 288.80          | 0.12               | Other | 0          |
| 33          | 3424.40    | 1.41          | 304.16        | 93.85          | 3423.85     | -18.62        | 17.30       | -48.90      | 51.87           | 289.48          | 0.09               | Other | 0          |
| 34          | 3518.55    | 1.49          | 307.85        | 94.15          | 3517.97     | -20.07        | 18.70       | -50.83      | 54.16           | 290.20          | 0.13               | Other | 0          |
| 35          | 3612.88    | 1.32          | 292.17        | 94.33          | 3612.27     | -21.29        | 19.86       | -52.80      | 56.41           | 290.62          | 0.44               | Other | 0          |
| 36          | 3707.19    | 1.49          | 296.36        | 94.31          | 3706.56     | -22.30        | 20.82       | -54.91      | 58.72           | 290.77          | 0.21               | Other | 0          |
| 37          | 3801.50    | 1.58          | 288.34        | 94.31          | 3800.83     | -23.32        | 21.77       | -57.24      | 61.24           | 290.83          | 0.25               | Other | 0          |
| 38          | 3991.87    | 1.71          | 296.56        | 190.37         | 3991.12     | -25.55        | 23.87       | -62.27      | 66.69           | 290.97          | 0.14               | Other | 0          |
| 39          | 4086.20    | 1.49          | 292.78        | 94.33          | 4085.42     | -26.72        | 24.97       | -64.66      | 69.31           | 291.12          | 0.26               | Other | 0          |
| 40          | 4180.76    | 1.58          | 283.24        | 94.56          | 4179.94     | -27.56        | 25.75       | -67.06      | 71.84           | 291.00          | 0.29               | Other | 0          |
| 41          | 4274.98    | 1.58          | 280.96        | 94.22          | 4274.13     | -28.17        | 26.29       | -69.60      | 74.4            | 290.69          | 0.07               | Other | 0          |
| 42          | 4368.63    | 1.10          | 274.06        | 93.65          | 4367.75     | -28.54        | 26.60       | -71.77      | 76.54           | 290.34          | 0.54               | Other | 0          |
| 43          | 4463.20    | 1.32          | 270.15        | 94.57          | 4462.30     | -28.66        | 26.67       | -73.76      | 78.43           | 289.88          | 0.25               | Other | 0          |
| 44          | 4557.75    | 1.32          | 225.78        | 94.55          | 4556.83     | -27.95        | 25.91       | -75.63      | 79.95           | 288.91          | 1.05               | Other | 0          |
| 45          | 4651.16    | 1.19          | 264.48        | 93.41          | 4650.22     | -27.16        | 25.07       | -77.37      | 81.33           | 287.95          | 0.90               | Other | 0          |
| 46          | 4719.70    | 1.32          | 254.46        | 68.54          | 4718.74     | -26.92        | 24.79       | -78.84      | 82.64           | 287.45          | 0.37               | Other | 0          |
| 47          | 4795.64    | 1.49          | 258.85        | 75.94          | 4794.66     | -26.54        | 24.36       | -80.65      | 84.25           | 286.81          | 0.26               | Other | 0          |
| 48          | 4890.56    | 1.19          | 261.14        | 94.92          | 4889.55     | -26.21        | 23.97       | -82.83      | 86.23           | 286.14          | 0.32               | Other | 0          |
| 49          | 4984.47    | 1.41          | 262.46        | 93.91          | 4983.44     | -25.97        | 23.67       | -84.94      | 88.18           | 285.57          | 0.24               | Other | 0          |
| 50          | 5078.78    | 1.41          | 158.68        | 94.31          | 5077.72     | -25.65        | 23.29       | -87.23      | 90.29           | 284.95          | 0.10               | Other | 0          |
| 51          | 5173.04    | 1.71          | 251.25        | 94.26          | 5171.94     | -25.09        | 22.61       | -89.70      | 92.5            | 284.15          | 0.38               | Other | 0          |
| 52          | 5266.54    | 1.19          | 254.94        | 93.50          | 5265.41     | -24.40        | 21.91       | -91.96      | 94.53           | 283.40          | 0.56               | Other | 0          |
| 53          | 5361.11    | 1.89          | 239.96        | 94.57          | 5359.95     | -23.42        | 20.87       | -94.26      | 96.54           | 282.49          | 0.85               | Other | 0          |
| 54          | 5455.59    | 1.32          | 239.08        | 94.48          | 5454.39     | -22.15        | 19.53       | -96.54      | 98.49           | 281.44          | 0.60               | Other | 0          |
| 55          | 5552.55    | 1.19          | 242.64        | 96.96          | 5551.33     | -21.16        | 18.50       | -98.39      | 100.11          | 280.65          | 0.16               | Other | 0          |
| 56          | 5648.05    | 1.32          | 258.55        | 95.50          | 5646.81     | -20.54        | 17.82       | -100.35     | 101.92          | 280.07          | 0.39               | Other | 0          |
| 57          | 5741.67    | 1.49          | 235.96        | 93.62          | 5740.40     | -19.70        | 16.93       | -102.41     | 103.8           | 279.39          | 0.61               | Other | 0          |
| 58          | 5835.59    | 1.71          | 244.04        | 93.92          | 5834.28     | -18.46        | 15.63       | -104.69     | 105.85          | 278.49          | 0.33               | Other | 0          |
| 59          | 5930.79    | 1.41          | 234.38        | 95.20          | 5929.45     | -17.22        | 14.33       | -106.92     | 107.87          | 277.63          | 0.42               | Other | 0          |
| 60          | 6024.09    | 1.41          | 201.24        | 93.30          | 6022.72     | -15.52        | 12.59       | -108.26     | 108.99          | 276.63          | 0.86               | Other | 0          |
| 61          | 6118.62    | 1.80          | 5.96          | 94.53          | 6117.24     | -15.92        | 12.98       | -108.53     | 109.31          | 276.82          | 3.37               | Other | 0          |
| 62          | 6212.60    | 1.32          | 253.67        | 93.98          | 6211.20     | -17.11        | 14.15       | -109.42     | 110.33          | 277.37          | 2.77               | Other | 0          |
| 63          | 6306.47    | 1.89          | 255.25        | 93.87          | 6305.03     | -16.48        | 13.45       | -111.95     | 112.76          | 276.85          | 0.61               | Other | 0          |
| 64          | 6401.54    | 2.02          | 232.84        | 95.07          | 6400.05     | -15.15        | 12.04       | -114.80     | 115.43          | 275.99          | 0.81               | Other | 0          |
| 65          | 6495.87    | 2.02          | 253.67        | 94.33          | 6494.32     | -13.75        | 10.56       | -117.72     | 118.2           | 275.13          | 0.77               | Other | 0          |
| 66          | 6589.26    | 1.58          | 261.67        | 93.39          | 6587.66     | -13.18        | 9.92        | -120.58     | 120.98          | 274.70          | 0.54               | Other | 0          |
| 67          | 6682.86    | 1.58          | 261.67        | 93.60          | 6681.23     | -12.88        | 9.54        | -123.13     | 123.5           | 274.43          | 0.00               | Other | 0          |
| 68          | 6776.51    | 1.71          | 229.85        | 93.65          | 6774.84     | -11.85        | 8.45        | -125.48     | 125.76          | 273.85          | 0.97               | Other | 0          |
| 69          | 6871.35    | 1.80          | 232.44        | 94.84          | 6869.64     | -10.09        | 6.63        | -127.74     | 127.91          | 272.97          | 0.13               | Other | 0          |
| 70          | 6970.94    | 1.10          | 235.87        | 99.59          | 6969.19     | -8.66         | 5.14        | -129.77     | 129.87          | 272.27          | 0.71               | Other | 0          |
| 71          | 7065.67    | 1.80          | 233.06        | 94.73          | 7063.89     | -7.31         | 3.74        | -131.71     | 131.76          | 271.63          | 0.74               | Other | 0          |
| 72          | 7160.13    | 2.68          | 251.87        | 94.46          | 7158.28     | -5.82         | 2.16        | -135.00     | 135.01          | 270.92          | 1.20               | Other | 0          |
| 73          | 7253.58    | 1.58          | 253.45        | 93.45          | 7251.66     | -4.86         | 1.11        | -138.31     | 138.31          | 270.46          | 1.18               | Other | 0          |
| 74          | 7348.22    | 1.10          | 244.44        | 94.64          | 7346.28     | -4.16         | 0.35        | -140.38     | 140.38          | 270.14          | 0.55               | Other | 0          |
| 75          | 7442.35    | 2.02          | 244.35        | 94.13          | 7440.37     | -3.11         | -0.76       | -142.69     | 142.69          | 269.70          | 0.98               | Other | 0          |
| 76          | 7537.01    | 2.02          | 231.48        | 94.66          | 7534.97     | -1.43         | -2.52       | -145.50     | 145.52          | 269.01          | 0.48               | Other | 0          |
| 77          | 7631.16    | 1.89          | 224.27        | 94.15          | 7629.07     | 0.65          | -4.66       | -147.88     | 147.95          | 268.19          | 0.30               | Other | 0          |
| 78          | 7725.38    | 1.49          | 247.47        | 94.22          | 7723.25     | 2.17          | -6.25       | -150.10     | 150.23          | 267.62          | 0.83               | Other | 0          |
| 79          | 7819.54    | 1.71          | 221.46        | 94.16          | 7817.37     | 3.64          | -7.77       | -152.16     | 152.35          | 267.08          | 0.80               | Other | 0          |

|     |          |       |        |       |         |         |          |         |         |        |       |           |    |
|-----|----------|-------|--------|-------|---------|---------|----------|---------|---------|--------|-------|-----------|----|
| 80  | 7913.28  | 1.71  | 224.36 | 93.74 | 7911.07 | 5.64    | -9.82    | -154.06 | 154.37  | 266.35 | 0.09  | Other     | 0  |
| 81  | 8007.82  | 1.32  | 247.17 | 94.54 | 8005.58 | 7.01    | -11.25   | -156.05 | 156.46  | 265.88 | 0.75  | Other     | 0  |
| 82  | 8101.58  | 1.71  | 237.45 | 93.76 | 8099.31 | 8.12    | -12.42   | -158.22 | 158.71  | 265.51 | 0.50  | Other     | 0  |
| 83  | 8196.48  | 1.10  | 224.05 | 94.90 | 8194.18 | 9.49    | -13.84   | -160.05 | 160.65  | 265.06 | 0.73  | Other     | 0  |
| 84  | 8291.08  | 1.41  | 212.67 | 94.60 | 8288.76 | 11.09   | -15.47   | -161.31 | 162.05  | 264.52 | 0.42  | Other     | 0  |
| 85  | 8384.59  | 1.80  | 201.55 | 93.51 | 8382.23 | 13.39   | -17.80   | -162.47 | 163.44  | 263.75 | 0.53  | Other     | 0  |
| 86  | 8480.67  | 2.29  | 215.04 | 96.08 | 8478.25 | 16.32   | -20.78   | -164.13 | 165.44  | 262.78 | 0.71  | Other     | 0  |
| 87  | 8575.37  | 1.71  | 210.34 | 94.70 | 8572.89 | 19.04   | -23.55   | -165.93 | 167.59  | 261.92 | 0.64  | Other     | 0  |
| 88  | 8669.46  | 2.02  | 195.97 | 94.09 | 8666.93 | 21.81   | -26.35   | -167.09 | 169.16  | 261.04 | 0.59  | Other     | 0  |
| 89  | 8763.96  | 1.71  | 220.84 | 94.50 | 8761.38 | 24.44   | -29.02   | -168.47 | 170.96  | 260.23 | 0.91  | Other     | 0  |
| 90  | 8857.48  | 1.58  | 193.86 | 93.52 | 8854.87 | 26.71   | -31.33   | -169.70 | 172.56  | 259.54 | 0.83  | Other     | 0  |
| 91  | 8937.00  | 8.87  | 131.66 | 79.52 | 8934.03 | 31.98   | -36.48   | -165.37 | 169.34  | 257.56 | 10.38 | SlimPulse | 13 |
| 92  | 8965.00  | 10.68 | 136.58 | 28.00 | 8961.62 | 35.39   | -39.80   | -161.97 | 166.79  | 256.20 | 7.10  | SlimPulse | 13 |
| 93  | 8998.00  | 13.60 | 140.06 | 33.00 | 8993.88 | 40.71   | -44.99   | -157.38 | 169.68  | 254.04 | 9.13  | SlimPulse | 0  |
| 94  | 9028.00  | 17.27 | 138.01 | 30.00 | 9022.80 | 46.87   | -51.01   | -152.13 | 160.46  | 251.46 | 12.35 | SlimPulse | 0  |
| 95  | 9059.00  | 20.93 | 133.80 | 31.00 | 9052.09 | 54.31   | -58.27   | -145.06 | 156.32  | 248.12 | 12.61 | SlimPulse | 0  |
| 96  | 9090.00  | 24.09 | 130.94 | 31.00 | 9080.72 | 62.53   | -66.25   | -136.28 | 151.53  | 244.07 | 10.79 | SlimPulse | 0  |
| 97  | 9121.00  | 27.64 | 128.28 | 31.00 | 9108.61 | 71.41   | -74.85   | -125.85 | 146.43  | 239.26 | 12.05 | SlimPulse | 0  |
| 98  | 9152.00  | 32.01 | 125.94 | 31.00 | 9135.50 | 81.02   | -84.13   | -113.55 | 141.32  | 233.46 | 14.57 | SlimPulse | 0  |
| 99  | 9186.00  | 37.16 | 123.49 | 34.00 | 9163.48 | 92.41   | -95.10   | -97.67  | 136.32  | 225.77 | 15.70 | SlimPulse | 0  |
| 100 | 9217.00  | 42.51 | 121.36 | 31.00 | 9187.28 | 103.49  | -105.72  | -80.91  | 133.13  | 217.43 | 17.79 | SlimPulse | 0  |
| 101 | 9250.00  | 47.76 | 121.39 | 33.00 | 9210.55 | 116.20  | -117.90  | -60.95  | 132.72  | 207.34 | 15.91 | SlimPulse | 0  |
| 102 | 9281.00  | 51.15 | 123.41 | 31.00 | 9230.70 | 129.36  | -130.52  | -41.07  | 136.83  | 197.47 | 12.00 | SlimPulse | 0  |
| 103 | 9312.00  | 53.43 | 125.06 | 31.00 | 9249.66 | 143.71  | -144.32  | -20.80  | 145.82  | 188.20 | 8.50  | SlimPulse | 0  |
| 104 | 9343.00  | 55.55 | 127.04 | 31.00 | 9267.67 | 159.11  | -159.18  | -0.40   | 159.18  | 180.14 | 8.57  | SlimPulse | 0  |
| 105 | 9375.00  | 57.61 | 129.78 | 32.00 | 9285.30 | 176.27  | -175.77  | 20.52   | 176.97  | 173.34 | 9.62  | SlimPulse | 0  |
| 106 | 9406.00  | 59.27 | 132.83 | 31.00 | 9301.52 | 194.23  | -193.21  | 40.35   | 197.38  | 168.20 | 9.95  | SlimPulse | 0  |
| 107 | 9437.00  | 60.38 | 135.85 | 31.00 | 9317.11 | 213.48  | -211.94  | 59.51   | 220.14  | 164.32 | 9.14  | SlimPulse | 0  |
| 108 | 9469.00  | 61.17 | 138.43 | 32.00 | 9332.73 | 234.45  | -232.41  | 78.50   | 245.31  | 161.34 | 7.46  | SlimPulse | 0  |
| 109 | 9500.00  | 62.03 | 140.61 | 31.00 | 9347.48 | 255.67  | -253.15  | 96.20   | 270.81  | 159.19 | 6.76  | SlimPulse | 0  |
| 110 | 9531.00  | 64.46 | 143.47 | 31.00 | 9361.44 | 277.95  | -274.98  | 113.22  | 297.37  | 157.62 | 11.39 | SlimPulse | 0  |
| 111 | 9563.00  | 67.81 | 146.96 | 32.00 | 9374.38 | 302.42  | -299.01  | 129.90  | 326.01  | 156.52 | 14.47 | SlimPulse | 0  |
| 112 | 9594.00  | 70.53 | 149.78 | 31.00 | 9385.40 | 327.49  | -323.68  | 145.08  | 354.71  | 155.86 | 12.21 | SlimPulse | 0  |
| 113 | 9626.00  | 72.79 | 151.90 | 32.00 | 9395.47 | 354.41  | -350.20  | 159.88  | 384.97  | 155.46 | 9.44  | SlimPulse | 0  |
| 114 | 9657.00  | 76.22 | 155.06 | 31.00 | 9403.76 | 381.49  | -376.93  | 173.21  | 414.82  | 155.32 | 14.78 | SlimPulse | 0  |
| 115 | 9688.00  | 80.46 | 158.96 | 31.00 | 9410.03 | 409.73  | -404.87  | 185.05  | 445.15  | 155.44 | 18.43 | SlimPulse | 0  |
| 116 | 9720.00  | 83.07 | 161.44 | 32.00 | 9414.61 | 439.81  | -434.66  | 195.78  | 476.72  | 155.75 | 11.20 | SlimPulse | 0  |
| 117 | 9751.00  | 85.28 | 163.87 | 31.00 | 9417.76 | 469.48  | -464.09  | 204.97  | 507.34  | 156.17 | 10.58 | SlimPulse | 0  |
| 118 | 9783.00  | 87.39 | 166.14 | 32.00 | 9419.80 | 500.54  | -494.94  | 213.23  | 538.91  | 156.69 | 9.65  | SlimPulse | 0  |
| 119 | 9814.00  | 88.18 | 166.66 | 31.00 | 9421.00 | 530.83  | -525.05  | 220.51  | 569.47  | 157.22 | 3.05  | SlimPulse | 0  |
| 120 | 9857.00  | 89.07 | 166.81 | 53.00 | 9422.27 | 562.71  | -576.62  | 232.67  | 621.79  | 158.03 | 1.71  | SlimPulse | 0  |
| 121 | 9961.00  | 88.35 | 166.96 | 94.00 | 9424.39 | 674.78  | -668.14  | 253.99  | 714.79  | 159.19 | 0.79  | SlimPulse | 0  |
| 122 | 10056.00 | 88.07 | 168.60 | 95.00 | 9427.35 | 768.09  | -760.94  | 274.08  | 808.8   | 160.19 | 1.75  | SlimPulse | 0  |
| 123 | 10149.00 | 88.90 | 169.87 | 93.00 | 9429.81 | 859.86  | -852.27  | 291.44  | 900.72  | 161.12 | 1.63  | SlimPulse | 0  |
| 124 | 10243.00 | 90.72 | 171.57 | 94.00 | 9430.12 | 953.00  | -945.03  | 306.60  | 993.52  | 162.03 | 2.65  | SlimPulse | 0  |
| 125 | 10338.00 | 90.52 | 174.66 | 95.00 | 9429.09 | 1047.57 | -1039.33 | 317.99  | 1086.89 | 162.99 | 3.26  | SlimPulse | 0  |
| 126 | 10432.00 | 90.03 | 178.31 | 94.00 | 9428.64 | 1141.50 | -1133.14 | 323.76  | 1178.48 | 164.05 | 3.92  | SlimPulse | 0  |
| 127 | 10526.00 | 89.79 | 179.88 | 94.00 | 9428.78 | 1235.49 | -1227.12 | 325.24  | 1269.49 | 165.16 | 1.70  | SlimPulse | 0  |
| 128 | 10619.00 | 90.21 | 180.36 | 93.00 | 9428.78 | 1328.45 | -1320.12 | 325.04  | 1359.55 | 166.17 | 0.68  | SlimPulse | 0  |
| 129 | 10718.00 | 90.24 | 180.68 | 99.00 | 9428.40 | 1427.38 | -1419.11 | 324.14  | 1455.66 | 167.13 | 0.32  | SlimPulse | 0  |
| 130 | 10812.00 | 90.03 | 180.57 | 94.00 | 9428.17 | 1521.32 | -1513.11 | 323.12  | 1547.22 | 167.95 | 0.25  | SlimPulse | 0  |
| 131 | 10907.00 | 90.45 | 180.29 | 95.00 | 9427.77 | 1616.26 | -1608.11 | 322.40  | 1640.11 | 168.66 | 0.53  | SlimPulse | 0  |
| 132 | 11001.00 | 90.52 | 179.49 | 94.00 | 9426.98 | 1710.22 | -1702.10 | 322.58  | 1732.4  | 169.27 | 0.86  | SlimPulse | 0  |
| 133 | 11093.00 | 90.62 | 178.28 | 92.00 | 9426.07 | 1802.21 | -1794.08 | 324.37  | 1823.16 | 169.75 | 1.31  | SlimPulse | 0  |
| 134 | 11187.00 | 90.58 | 179.24 | 94.00 | 9425.08 | 1896.21 | -1888.05 | 326.40  | 1916.06 | 170.19 | 1.02  | SlimPulse | 0  |
| 135 | 11282.00 | 90.79 | 179.13 | 95.00 | 9423.94 | 1991.19 | -1983.03 | 327.75  | 2009.94 | 170.62 | 0.25  | SlimPulse | 0  |
| 136 | 11376.00 | 90.58 | 179.74 | 94.00 | 9422.81 | 2085.17 | -2077.02 | 328.68  | 2102.87 | 171.01 | 0.68  | SlimPulse | 0  |
| 137 | 11470.00 | 90.58 | 180.33 | 94.00 | 9421.86 | 2179.13 | -2171.02 | 328.63  | 2195.75 | 171.39 | 0.63  | SlimPulse | 0  |
| 138 | 11565.00 | 90.38 | 181.09 | 95.00 | 9421.06 | 2274.05 | -2266.00 | 327.46  | 2289.54 | 171.78 | 0.83  | SlimPulse | 0  |
| 139 | 11656.00 | 90.38 | 181.51 | 91.00 | 9420.46 | 2364.94 | -2356.98 | 325.40  | 2379.33 | 172.14 | 0.46  | SlimPulse | 0  |
| 140 | 11753.00 | 90.58 | 181.28 | 97.00 | 9419.64 | 2461.80 | -2453.95 | 323.04  | 2475.12 | 172.50 | 0.32  | SlimPulse | 0  |
| 141 | 11849.00 | 90.65 | 181.27 | 96.00 | 9418.61 | 2557.68 | -2549.92 | 320.91  | 2570.03 | 172.83 | 0.07  | SlimPulse | 0  |
| 142 | 11945.00 | 90.93 | 182.24 | 96.00 | 9417.28 | 2653.51 | -2645.86 | 317.98  | 2664.9  | 173.15 | 1.05  | SlimPulse | 0  |
| 143 | 12040.00 | 90.65 | 182.34 | 95.00 | 9415.97 | 2748.29 | -2740.78 | 314.18  | 2758.73 | 173.46 | 0.31  | SlimPulse | 0  |
| 144 | 12134.00 | 90.10 | 181.47 | 94.00 | 9415.35 | 2842.11 | -2834.72 | 311.06  | 2851.74 | 173.74 | 1.10  | SlimPulse | 0  |
| 145 | 12229.00 | 90.07 | 181.68 | 95.00 | 9415.21 | 2936.97 | -2929.69 | 308.45  | 2945.88 | 173.99 | 0.22  | SlimPulse | 0  |
| 146 | 12323.00 | 89.97 | 181.05 | 94.00 | 9415.18 | 3030.85 | -3023.66 | 306.22  | 3039.13 | 174.22 | 0.68  | SlimPulse | 0  |
| 147 | 12417.00 | 89.79 | 181.49 | 94.00 | 9415.37 | 3124.74 | -3117.64 | 304.14  | 3132.44 | 174.43 | 0.51  | SlimPulse | 0  |
| 148 | 12512.00 | 89.69 | 181.23 | 95.00 | 9415.80 | 3219.61 | -3212.61 | 301.89  | 3226.76 | 174.63 | 0.30  | SlimPulse | 0  |
| 149 | 12606.00 | 89.55 | 181.65 | 94.00 | 9416.42 | 3313.48 | -3306.58 | 299.53  | 3320.11 | 174.82 | 0.48  | SlimPulse | 0  |
| 150 | 12700.00 | 89.42 | 180.73 | 94.00 | 9417.27 | 3407.37 | -3400.55 | 297.57  | 3413.55 | 175.00 | 1.00  | SlimPulse | 0  |
| 151 | 12794.00 | 89.28 | 179.30 | 94.00 | 9418.34 | 3501.33 | -3494.54 | 297.55  | 3507.19 | 175.13 | 1.53  | SlimPulse | 0  |
| 152 | 12889.00 | 89.28 | 178.55 | 95.00 | 9419.54 | 3596.31 | -3589.52 | 299.34  | 3601.98 | 175.23 | 0.78  | SlimPulse | 0  |
| 153 | 12982.00 | 89.28 | 177.54 | 93.00 | 9420.71 | 3689.30 | -3682.45 | 302.51  | 3694.86 | 175.30 | 1.09  | SlimPulse | 0  |
| 154 | 13076.00 | 89.52 | 177.55 | 94.00 | 9421.70 | 3783.29 | -3776.36 | 306.54  | 3788.78 | 175.36 | 0.26  | SlimPulse | 0  |
| 155 | 13170.00 | 89.45 | 177.33 | 94.00 | 9422.54 | 3877.27 | -3870.26 | 310.74  | 3882.72 | 175.41 | 0.25  | SlimPulse | 0  |
| 156 | 13264.00 | 88.87 | 176.79 | 94.00 | 9423.93 | 3971.23 | -3964.13 | 315.56  | 3976.67 | 175.45 | 0.84  | SlimPulse | -1 |
| 157 | 13360.00 | 89.93 | 177.10 | 96.00 | 9424.93 | 4067.19 | -4059.99 | 320.67  | 4072.63 | 175.48 | 1.16  | SlimPulse | 0  |
| 158 | 13454.00 | 90.31 | 178.25 | 94.00 | 9424.74 | 4161.18 | -4153.91 | 324.48  | 4166.56 | 175.53 | 1.29  | SlimPulse | 0  |
| 159 | 13549.00 | 89.62 | 178.24 | 95.00 | 9424.79 | 4256.18 | -4248.86 | 327.39  | 4261.46 | 175.59 | 0.72  | SlimPulse | 0  |
| 160 | 13643.00 | 90.21 | 179.17 | 94.00 | 9424.93 | 4350.18 | -4342.84 | 329.51  | 4355.32 | 175.66 | 1.17  | SlimPulse | 0  |
| 161 | 13737.00 | 90.10 | 180.21 | 94.00 | 9424.68 | 4444.15 | -4436.83 | 330.02  | 4449.09 | 175.75 | 1.11  | SlimPulse | 0  |
| 162 | 13831.00 | 90.07 | 181.05 | 94.00 | 9424.54 | 4538.08 | -4530.83 | 328.98  | 4542.76 | 175.85 | 0.90  | SlimPulse | 0  |
| 163 | 13926.00 | 90.24 | 181.82 | 95.00 | 9424.28 | 4632.95 | -4625.80 | 326.60  | 4637.31 | 175.96 | 0.83  | SlimPulse | 0  |
| 164 | 13985.00 | 89    |        |       |         |         |          |         |         |        |       |           |    |