

DISTRICT I
1825 N. French Dr., Hobbs, NM 88240
Phone (505) 593-8161 Fax: (505) 593-0720

DISTRICT II
611 S. First St., Artesia, NM 88210
Phone (505) 748-1283 Fax: (505) 748-9720

DISTRICT III
1000 Rio Drazos Rd., Aztec, NM 87410
Phone (505) 334-8178 Fax: (505) 334-8170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 11 2015

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-41792	Pool Code 24720	Pool Name Forty Niner Ridge; Bone Spring
Property Code 39937	Property Name SANDY FEDERAL	Well Number 22H
OGRID No. 215099	Operator Name CIMAREX ENERGY CO.	Elevation 3294'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	23	23 S	30 E		195	SOUTH	250	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	24	23 S	30 E		349	NORTH	312	EAST	EDDY

Dedicated Acres 280	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

N: 472387.2 E: 687486.5 NAD 83 N: 472394.1 E: 690107.9 NAD 83 N: 472401.4 E: 692851.2 NAD 83 N: 472418.9 E: 695533.1 NAD 83 N: 472437.4 E: 698215.3 NAD 83 N: 469798.1 E: 698228.9 NAD 83 N: 469742.8 E: 687511.3 NAD 83 N: 469769.8 E: 692859.0 NAD 83 N: 467095.5 E: 687537.2 NAD 83 N: 467107.8 E: 690213.4 NAD 83 N: 467133.7 E: 695563.6 NAD 83 N: 467155.8 E: 698239.1 NAD 83 N: 467110.3 E: 692855.3 NAD 83 N: 464477.1 E: 692395.0 NAD 83 N: 464515.5 E: 698251.3 NAD 83 N: 461834.7 E: 692903.2 NAD 83 N: 461854.9 E: 695582.8 NAD 83 N: 461874.2 E: 698263.2 NAD 83	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Terri Stathem</i> Date: 1-19-15 Printed Name: Terri Stathem Email Address: tstathem@cimarex.com SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief. Date Surveyed: 7/97 Signature of Professional Surveyor: <i>Gary L. Jones</i> Certificate No. Gary L. Jones 7977 BASIN SURVEYS 28776
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State of New Mexico
Energy, Minerals & Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 11 2015

Submit one copy to appropriate District Office

Form C-104
Revised August 1, 2011

RECEIVED

☒ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Cimarex Energy Co. 600 N. Marienfeld St., Ste. 600 Midland, TX 79701		² OGRID Number 215099
⁴ API Number 30 -015-41792		³ Reason for Filing Code/ Effective Date NW 9-13-14
⁵ Pool Name Forty Niner Ridge Bone Spring	⁶ Pool Code 24720	
⁷ Property Code 39937	⁸ Property Name Sandy Federal	⁹ Well Number 22H

II. ¹⁰ Surface Location

UL or lot no. P	Section 23	Township 23S	Range 30E	Lot Idn	Feet from the	North/South Line South	Feet from the	East/West line East	County Eddy
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¹¹ Bottom Hole Location

UL or lot no. A	Section 24	Township 23S	Range 30E	Lot Idn	Feet from the	North/South line North	Feet from the	East/West line East	County Eddy
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 9-13-14	¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date		

III. Oil and Gas Transporters

¹⁸ Transporter OGRID 21778	¹⁹ Transporter Name and Address Sunoco Inc. R & M P O Box 2039; Tulsa OK	²⁰ O/G/W
226737	DCP Mistream 370 17th St, Ste 2500; Denver CO	

IV. Well Completion Data

²¹ Spud Date 6-7-14	²² Ready Date 9-13-14	²³ TD 18023/11216	²⁴ PBTB 18021	²⁵ Perforations 12294-17990	²⁶ DHC, MC
²⁷ Hole Size 17 1/2	²⁸ Casing & Tubing Size 13 3/8	²⁹ Depth Set 365	³⁰ Sacks Cement 390		
12 1/4	9 5/8	3865	1465		
8 3/4 & 8 1/2	5 1/2	18023	3870- TOC 790'		
	2-3/8	10471			

V. Well Test Data

³¹ Date New Oil 10-2-14	³² Gas Delivery Date 10-2-14	³³ Test Date 10-17-14	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure 650	³⁶ Csg. Pressure 370
³⁷ Choke Size 19/64	³⁸ Oil 326	³⁹ Water 1242	⁴⁰ Gas 554	⁴¹ Test Method	

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name:

Terri Stathem

Title: Regulatory

E-mail Address Tstathem@cimarex.com

Date:

01-19-14

Phone:

432-620-1936

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Oilfield Services, Central U.S. Land

Reservoir Development

PathFinder, a Schlumberger Company
9200 West Reno Avenue
Oklahoma City, Oklahoma 73127USA
Phone: (405) 789-1515
Fax: (405) 789-1519



November 10, 2014

Cimarex
600 N MARIENFELD STREET SUITE 600

MIDLAND, TX 79701

NM OIL CONSERVATION
ARTESIA DISTRICT
JUN 11 2015
RECEIVED

Re:

CLIENT: Cimarex Energy Co.
WELL: Sandy Federal #22H
FIELD: NM Eddy County
RIG: Cactus 137
COUNTY: Eddy
API NO: 30-015-41792
JOB NO: 14MLD0542

S23-T23S-R30E 195 FSL 250 FEL
N 32.28376 W 103.84378

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

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Rasheed Atanda FE	Sandy Federal #22H Original Hole	10536.00 Ft to 17943.00 Ft	June 22, 2014 to July 1, 2014	SlimPulse

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

Joseph Hogan
Field Service Manager

Reservoir Development

PathFinder, a Schlumberger Company
9200 West Reno Avenue
Oklahoma City, Oklahoma 73127 USA
Phone: (405) 789-1515
Fax: (405) 789-1519

PATHFINDER
A Schlumberger Company

Well Reference:

S23-T23S-R30E 195 FSL 250 FEL
N 32.28376 W 103.84378

I, Rasheed Atanda certify that; I am employed by PathFinder, a division of Schlumberger Technology Corporation; that I did on the day(s) of June 22, 2014 through July 01, 2014, conduct or supervise the taking of the SlimPulse surveys from a depth of 10536.00 feet to a depth of 17943.00 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. for the Sandy Federal #22H Well (Original Hole) API No. 30-015-41792 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
Rasheed Atanda
FE

R. Atanda

Subscribed and Sworn to before me this 7 day of November (month) 2014 (yr)

My Commission expires:

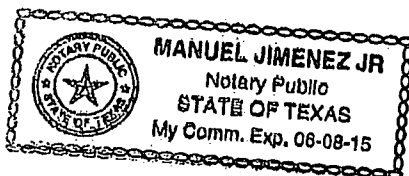
6/8/15

Notary Public

(County State)

Manuel Jimenez Jr.
Wuback, TX.

(signature)



SCHLUMBERGER
Survey Report

7-Nov-2014

Client..... Cimarex Energy Co.
Field..... Forty Niner Ridge; BS

Well..... Sandy Federal #22H
API number..... 30-015-41792
Engineer..... Rasheed Atanda

Spud date..... 5-Jun-14
Last survey date..... 1-Jul-14
Total accepted surveys..... 98
MD of first survey..... 10536.00 ft
MD of last survey..... 17943.00 ft

County..... Eddy
State..... NM
Rig..... Cactus 137

Latitude..... 32° 17' 1.568" N
Longitude..... 103° 50' 37.499" 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..... 3294.00
KB above permanent..... 3318.00
DF above permanent..... 3318.00

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

--- Grid Coordinates ---
NAD83 New Mexico State Plane, Eastern Zone, US Feet
X..... 467313.20 ft
Y..... 692634.10 ft

Azimuth from Vsect Origin to target: 47.52 degrees

--- MWD Survey Reference Criteria ---

--- Run1 --- Calculation Date: 21-Jun-2014
Location G..... 998.94325 mgn Tolerance G..... 2.50 mgn
Location B..... 48291.22 nT Tolerance B..... 300.00 nT
Magnetic Dip: 60.114 degrees Tolerance Dip: 0.45 degrees

--- Run2 --- Calculation Date: 25-Jun-2014
Location G..... 998.94325 mgn Tolerance G..... 2.50 mgn
Location B..... 48291.22 nT Tolerance B..... 300.00 nT
Magnetic Dip: 60.114 degrees Tolerance Dip: 0.45 degrees

BGGM Model: 2014

--- Run1 ---
Magnetic dec (+E/W)..... 7.51 degrees
Grid Conv (+E/W)..... 0.26 degrees
Total Azim Corr (+E/W)..... 7.25 degrees

--- Run2 ---
Magnetic dec (+E/W)..... 7.51 degrees
Grid Conv (+E/W)..... 0.26 degrees
Total Azim Corr (+E/W)..... 7.25 degrees

--- Survey Correction Index Description ---

0 = Uncorrected 1 = Sag Corrected
2 = DMAG Corrected 3 = Sag + DMAG Corrected

===== Survey List =====													
Seq	MD (ft)	Incl (deg)	Azim (deg)	Course (ft)	TVD (ft)	VSec (ft)	N/S (ft)	E/W (ft)	Closure (ft)	at Azi (deg)	DLS (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	80.00	0.25	181.88	80.00	80.00	-0.12	-0.17	-0.01	0.17	181.88	0.31	Other	0
3	175.00	0.33	208.76	95.00	175.00	-0.53	-0.62	-0.14	0.64	193.06	0.16	Other	0
4	262.00	0.34	195.32	87.00	262.00	-0.98	-1.09	-0.34	1.14	197.21	0.08	Other	0
5	355.00	0.14	126.07	93.00	355.00	-1.20	-1.42	-0.32	1.46	192.81	0.35	Other	0
6	447.00	0.14	130.26	92.00	447.00	-1.16	-1.56	-0.15	1.57	185.36	0.01	Other	0
7	541.00	0.14	130.56	94.00	541.00	-1.13	-1.71	0.03	1.71	179.04	0.00	Other	0
8	634.00	0.14	131.37	93.00	634.00	-1.11	-1.86	0.20	1.87	173.85	0.00	Other	0
9	726.00	0.11	126.64	92.00	726.00	-1.08	-1.98	0.36	2.02	169.85	0.03	Other	0
10	818.00	0.12	195.21	92.00	818.00	-1.14	-2.13	0.40	2.17	169.34	0.14	Other	0
11	909.00	0.09	295.53	91.00	909.00	-1.25	-2.19	0.31	2.21	171.91	0.18	Other	0
12	1002.00	0.09	286.60	93.00	1001.99	-1.31	-2.14	0.18	2.15	175.31	0.02	Other	0
13	1095.00	0.15	116.55	93.00	1094.99	-1.31	-2.17	0.21	2.18	174.36	0.26	Other	0
14	1187.00	0.07	300.69	92.00	1186.99	-1.28	-2.20	0.27	2.21	172.90	0.24	Other	0
15	1280.00	0.12	111.60	93.00	1279.99	-1.26	-2.20	0.32	2.23	171.85	0.20	Other	0
16	1375.00	0.11	135.39	95.00	1374.99	-1.21	-2.31	0.47	2.35	168.43	0.05	Other	0
17	1470.00	0.07	122.47	95.00	1469.99	-1.19	-2.40	0.59	2.47	166.31	0.05	Other	0
18	1565.00	0.11	99.64	95.00	1564.99	-1.12	-2.45	0.72	2.55	163.53	0.06	Other	0
19	1660.00	0.13	106.36	95.00	1659.99	-1.01	-2.49	0.92	2.66	159.81	0.03	Other	0
20	1754.00	0.11	95.50	94.00	1753.99	-0.89	-2.53	1.11	2.76	156.34	0.03	Other	0
21	1849.00	0.11	116.33	95.00	1848.99	-0.80	-2.58	1.28	2.88	153.59	0.04	Other	0
22	1944.00	0.10	128.82	95.00	1943.99	-0.75	-2.67	1.43	3.03	151.89	0.03	Other	0
23	2039.00	0.09	108.02	95.00	2038.99	-0.70	-2.75	1.56	3.16	150.37	0.04	Other	0

24	2134.00	0.09	91.83	95.00	2133.99	-0.61	-2.77	1.71	3.26	148.37	0.03	Other	0
25	2229.00	0.06	116.60	95.00	2228.99	-0.54	-2.80	1.83	3.34	146.85	0.05	Other	0
26	2324.00	0.11	101.60	95.00	2323.99	-0.47	-2.84	1.96	3.45	145.36	0.06	Other	0
27	2419.00	0.09	117.96	95.00	2418.99	-0.39	-2.89	2.12	3.59	143.80	0.04	Other	0
28	2514.00	0.09	118.51	95.00	2513.99	-0.34	-2.96	2.25	3.72	142.81	0.00	Other	0
29	2609.00	0.09	113.40	95.00	2608.99	-0.29	-3.03	2.38	3.85	141.81	0.01	Other	0
30	2704.00	0.09	116.36	95.00	2703.99	-0.23	-3.09	2.52	3.99	140.84	0.00	Other	0
31	2799.00	0.10	97.06	95.00	2798.99	-0.15	-3.14	2.67	4.12	139.61	0.04	Other	0
32	2894.00	0.11	93.49	95.00	2893.99	-0.03	-3.15	2.84	4.24	137.56	0.01	Other	0
33	2989.00	0.16	87.18	95.00	2988.99	0.13	-3.15	3.06	4.39	135.79	0.05	Other	0
34	3084.00	0.13	88.92	95.00	3083.99	0.32	-3.14	3.30	4.56	133.55	0.03	Other	0
35	3179.00	0.11	85.83	95.00	3178.99	0.47	-3.13	3.50	4.7	131.81	0.02	Other	0
36	3274.00	0.11	89.77	95.00	3273.99	0.61	-3.13	3.69	4.83	130.30	0.01	Other	0
37	3369.00	0.11	88.62	95.00	3368.99	0.74	-3.12	3.87	4.97	128.92	0.00	Other	0
38	3464.00	0.13	87.20	95.00	3463.99	0.89	-3.12	4.07	5.12	127.46	0.02	Other	0
39	3559.00	0.13	95.15	95.00	3558.99	1.05	-3.12	4.28	5.3	126.08	0.02	Other	0
40	3654.00	0.11	98.34	95.00	3653.99	1.18	-3.14	4.48	5.47	125.06	0.02	Other	0
41	3749.00	0.13	103.78	95.00	3748.99	1.30	-3.18	4.67	5.65	124.25	0.02	Other	0
42	3873.00	0.22	218.16	124.00	3872.99	1.14	-3.40	4.66	5.77	126.12	0.24	Other	0
43	3971.00	0.22	241.93	98.00	3970.99	0.77	-3.64	4.38	5.7	129.71	0.09	Other	0
44	4063.00	0.22	206.47	92.00	4062.99	0.44	-3.88	4.15	5.68	133.10	0.15	Other	0
45	4159.00	0.40	205.24	96.00	4158.99	-0.04	-4.35	3.92	5.86	137.95	0.19	Other	0
46	4257.00	0.48	143.23	98.00	4256.98	-0.40	-4.99	4.02	6.41	141.12	0.47	Other	0
47	4349.00	0.62	156.46	92.00	4348.98	-0.60	-5.75	4.45	7.27	142.27	0.20	Other	0
48	4446.00	0.48	124.33	97.00	4445.98	-0.68	-6.46	5.00	8.17	142.29	0.34	Other	0
49	4543.00	0.70	101.44	97.00	4542.97	-0.24	-6.81	5.91	9.02	139.03	0.33	Other	0
50	4639.00	0.70	102.76	96.00	4638.96	0.44	-7.05	7.06	9.98	134.98	0.02	Other	0
51	4729.00	0.62	95.24	90.00	4728.96	1.08	-7.22	8.08	10.84	131.78	0.13	Other	0
52	4824.00	0.40	102.36	95.00	4823.95	1.62	-7.34	8.92	11.55	129.46	0.24	Other	0
53	4948.00	0.48	122.05	124.00	4947.95	2.01	-7.71	9.78	12.45	128.24	0.14	Other	0
54	5012.00	0.62	94.05	64.00	5011.95	2.32	-7.87	10.35	13.01	127.26	0.47	Other	0
55	5108.00	0.48	111.24	96.00	5107.94	2.85	-8.06	11.24	13.83	125.62	0.22	Other	0
56	5204.00	0.40	102.93	96.00	5203.94	3.22	-8.28	11.95	14.53	124.71	0.11	Other	0
57	5299.00	0.40	82.45	95.00	5298.94	3.68	-8.31	12.60	15.09	123.40	0.15	Other	0
58	5396.00	0.40	92.87	97.00	5395.94	4.20	-8.28	13.27	15.64	121.96	0.07	Other	0
59	5494.00	0.09	81.53	98.00	5493.94	4.50	-8.29	13.69	16	121.18	0.32	Other	0
60	5590.00	0.22	72.35	96.00	5589.93	4.73	-8.22	13.94	16.18	120.52	0.14	Other	0
61	5688.00	0.31	99.24	98.00	5687.93	5.07	-8.20	14.38	16.56	119.70	0.15	Other	0
62	5774.00	0.31	94.36	86.00	5773.93	5.37	-8.26	14.84	16.99	119.09	0.03	Other	0
63	5868.00	0.62	95.55	94.00	5867.93	5.88	-8.33	15.60	17.69	118.09	0.33	Other	0
64	5964.00	0.70	120.07	96.00	5963.92	6.41	-8.67	16.63	18.75	117.54	0.30	Other	0
65	6056.00	0.88	93.35	92.00	6055.91	7.07	-8.99	17.82	19.96	116.78	0.44	Other	0
66	6152.00	0.70	106.67	96.00	6151.91	7.88	-9.21	19.12	21.22	115.71	0.27	Other	0
67	6250.00	0.88	95.46	98.00	6249.90	8.69	-9.45	20.44	22.52	114.81	0.24	Other	0
68	6346.00	0.70	101.83	96.00	6345.89	9.53	-9.64	21.75	23.79	113.91	0.21	Other	0
69	6437.00	0.70	128.16	91.00	6436.88	9.94	-10.10	22.73	24.87	113.95	0.35	Other	0
70	6535.00	0.70	141.25	98.00	6534.87	10.00	-10.93	23.57	25.98	114.88	0.16	Other	0
71	6631.00	1.89	233.76	96.00	6630.85	8.39	-12.33	22.66	25.8	118.54	2.13	Other	0
72	6727.00	2.02	240.13	96.00	6726.80	5.16	-14.11	19.92	24.41	125.30	0.26	Other	0
73	6825.00	2.02	235.16	98.00	6824.74	1.77	-15.95	17.00	23.32	133.17	0.18	Other	0
74	6915.00	3.60	241.45	90.00	6914.63	-2.55	-18.21	13.22	22.5	144.02	1.79	Other	0
75	7013.00	3.78	236.26	98.00	7012.42	-8.73	-21.47	7.83	22.86	159.96	0.39	Other	0
76	7102.00	3.78	235.73	89.00	7101.23	-14.53	-24.75	2.97	24.93	173.17	0.04	Other	0
77	7200.00	3.21	238.55	98.00	7199.05	-20.42	-28.01	-2.04	28.08	184.17	0.61	Other	0
78	7296.00	3.30	235.87	96.00	7294.89	-25.79	-30.96	-6.62	31.66	192.08	0.18	Other	0
79	7392.00	2.42	251.73	96.00	7390.77	-30.37	-33.14	-10.84	34.87	198.10	1.22	Other	0
80	7480.00	1.32	272.74	88.00	7478.73	-32.78	-33.68	-13.61	36.32	202.01	1.45	Other	0
81	7576.00	1.19	269.74	96.00	7574.70	-34.30	-33.63	-15.71	37.12	205.04	0.15	Other	0
82	7670.00	1.10	265.05	94.00	7668.68	-35.74	-33.71	-17.59	38.02	207.55	0.14	Other	0
83	7767.00	1.41	258.63	97.00	7765.66	-37.50	-34.03	-19.69	39.31	210.05	0.35	Other	0
84	7864.00	1.41	248.45	97.00	7862.63	-39.64	-34.70	-21.97	41.07	212.33	0.26	Other	0
85	7961.00	2.02	265.97	97.00	7959.59	-42.09	-35.26	-24.78	43.1	215.10	0.82	Other	0
86	8053.00	2.50	273.97	92.00	8051.52	-44.74	-35.23	-28.40	45.26	218.87	0.62	Other	0
87	8146.00	1.58	257.53	93.00	8144.46	-47.25	-35.37	-31.68	47.48	221.85	1.16	Other	0
88	8241.00	1.32	239.25	95.00	8239.43	-49.45	-36.21	-33.90	49.6	223.11	0.56	Other	0
89	8335.00	1.49	243.03	94.00	8333.40	-51.69	-37.32	-35.92	51.8	223.90	0.21	Other	0
90	8430.00	1.41	211.34	95.00	8428.37	-54.00	-38.88	-37.62	54.1	224.06	0.84	Other	0
91	8527.00	1.41	216.84	97.00	8525.34	-56.32	-40.85	-38.96	56.45	223.64	0.14	Other	0
92	8622.00	1.19	193.46	95.00	8620.32	-58.29	-42.75	-39.89	58.47	223.02	0.60	Other	0
93	8716.00	1.71	172.54	94.00	8714.29	-59.90	-45.09	-39.94	60.23	221.53	0.78	Other	0
94	8809.00	1.19	167.14	93.00	8807.26	-61.18	-47.41	-39.54	61.73	219.83	0.58	Other	0
95	8905.00	1.01	160.94	96.00	8903.24	-62.01	-49.18	-39.04	62.79	218.45	0.22	Other	0
96	9000.00	0.09	176.85	95.00	8998.23	-62.39	-50.04	-38.76	63.3	217.76	0.97	Other	0
97	9093.00	0.40	156.15	93.00	9091.23	-62.54	-50.41	-38.63	63.51	217.46	0.34	Other	0
98	9189.00	0.22	294.93	96.00	9187.23	-62.71	-50.64	-38.66	63.71	217.36	0.61	Other	0
99	9285.00	0.70	300.86	96.00	9283.23	-62.95	-50.26	-39.33	63.82	218.04	0.50	Other	0
100	9383.00	1.01	344.23	98.00	9381.22	-62.74	-49.13	-40.08	63.4	219.21	0.71	Other	0
101	9480.00	1.49	350.04	97.00	9478.20	-61.67	-47.06	-40.53	62.11	220.74	0.51	Other	0
102	9568.00	0.62	34.64	88.00	9566.18	-60.59	-45.54	-40.46	60.92	221.62	1.29	Other	0
103	9665.00	0.70	292.34	97.00	9663.18	-60.34	-44.89	-40.71	60.6	222.21	1.06	Other	0
104	9760.00	0.88	267.07	95.00	9758.17	-61.14	-44.70	-41.97	61.32	223.20	0.41	Other	0
105	9858.00	2.02	281.26	98.00	9856.14	-62.75	-44.40	-44.42	62.81	225.01	1.21	Other	0
106	9952.00	1.10	291.15	94.00	9950.10	-64.13	-43.75	-46.89	64.13	226.98	1.02	Other	0
107	10046.00	0.88	353.64	94.00	10044.09	-64.10	-42.71	-47.81	64.11	228.72	1.11	Other	0
108	10143.00	0.88	347.05	97.00	10141.08	-63.30	-41.24	-48.06	63.33	229.36	0.10	Other	0
109	10238.00	2.11	342.35	95.00	10236.04	-62.20	-38.87	-48.75	62.35	231.44	1.30	Other	0
110	10336.00	2.68	356.06	98.00	10333.96	-60.02	-34.86	-49.45	60.51	234.82	0.82	Other	0
111	10427.00	2.02	3.13	91.00	10424.88	-57.54	-31.14	-49.51	58.49	237.83	0.79	Other	0
112	10536.00	1.45	356.11	109.00	10533.83	-55.31	-27.85	-49.50	56.8	240.64	0.56	SlimPulse	0
113	10567.00	4.96	27.08	31.00	10564.78	-53.81	-26.26	-48.92	55.52	241.77	12.24	SlimPulse	1
114	10599.00	8.92	36.94	32.00	10596.54	-50.08	-23.05	-46.80	5				

120	10788.00	27.19	45.87	32.00	10775.50	7.79	18.44	-6.33	19.5	341.06	8.16	SlimPulse	1
121	10820.00	29.72	46.05	32.00	10803.63	23.03	29.04	4.63	29.41	9.06	7.91	SlimPulse	1
122	10851.00	32.70	46.19	31.00	10830.14	39.09	40.18	16.21	43.32	21.97	9.62	SlimPulse	1
123	10883.00	35.56	46.27	32.00	10856.62	57.03	52.59	29.17	60.14	29.02	8.94	SlimPulse	1
124	10915.00	38.37	46.08	32.00	10882.19	76.37	65.92	43.05	78.73	33.15	8.79	SlimPulse	1
125	10947.00	41.64	45.93	32.00	10906.70	96.83	80.21	57.85	98.89	35.80	10.22	SlimPulse	1
126	10978.00	44.52	46.11	31.00	10929.34	117.99	94.91	73.08	119.79	37.60	9.30	SlimPulse	1
127	11010.00	46.64	46.81	32.00	10951.73	140.84	110.65	89.65	142.41	39.02	6.81	SlimPulse	1
128	11041.00	49.89	46.96	31.00	10972.37	163.97	126.46	106.54	165.35	40.11	10.49	SlimPulse	1
129	11073.00	54.39	47.73	32.00	10993.00	189.23	143.57	125.12	190.43	41.07	14.19	SlimPulse	1
130	11104.00	58.42	47.82	31.00	11009.15	215.05	160.92	144.23	216.1	41.87	13.00	SlimPulse	1
131	11136.00	61.75	48.00	32.00	11025.11	242.78	179.50	164.82	243.69	42.56	10.42	SlimPulse	1
132	11168.00	64.63	47.82	32.00	11039.54	271.34	198.65	186.01	272.14	43.12	9.01	SlimPulse	1
133	11200.00	66.84	48.06	32.00	11052.69	300.51	218.19	207.67	301.22	43.58	6.94	SlimPulse	1
134	11231.00	69.79	47.89	31.00	11064.14	329.31	237.47	229.06	329.94	43.97	9.53	SlimPulse	1
135	11263.00	73.02	47.97	32.00	11074.35	359.63	257.79	251.57	360.92	44.30	10.10	SlimPulse	1
136	11295.00	75.81	48.26	32.00	11082.94	390.45	278.37	274.52	390.96	44.60	8.76	SlimPulse	1
137	11327.00	78.11	48.40	32.00	11090.16	421.62	299.09	297.80	422.07	44.88	7.20	SlimPulse	1
138	11358.00	81.04	48.41	31.00	11095.77	452.10	319.33	320.60	452.5	45.11	9.45	SlimPulse	1
139	11391.00	85.69	48.08	33.00	11095.58	484.87	341.15	345.05	485.22	45.33	14.13	SlimPulse	1
140	11421.00	88.51	48.05	30.00	11101.10	514.83	361.17	367.34	515.15	45.48	9.40	SlimPulse	1
141	11453.00	88.92	48.08	32.00	11101.82	546.82	382.55	391.13	547.11	45.64	1.28	SlimPulse	1
142	11486.00	89.72	47.39	93.00	11102.92	639.81	445.09	459.95	640.05	45.94	1.14	SlimPulse	1
143	11519.00	89.72	47.56	95.00	11103.39	734.81	509.31	529.96	735.02	46.14	0.18	SlimPulse	1
144	11536.00	89.66	47.34	95.00	11103.90	829.81	573.55	599.95	830	46.29	0.24	SlimPulse	1
145	11580.00	89.59	47.34	94.00	11104.52	923.80	637.24	669.07	923.98	46.40	0.07	SlimPulse	1
146	11624.00	89.76	47.62	94.00	11105.05	1017.80	700.77	738.35	1017.96	46.50	0.35	SlimPulse	1
147	12019.00	89.76	47.94	95.00	11105.45	1112.80	784.61	808.71	1112.94	46.61	0.34	SlimPulse	1
148	12114.00	89.55	47.92	95.00	11106.02	1207.80	828.26	879.23	1207.92	46.71	0.22	SlimPulse	1
149	12208.00	89.66	48.52	94.00	11106.67	1301.79	890.89	969.32	1301.88	46.82	0.65	SlimPulse	1
150	12302.00	89.76	48.35	94.00	11107.14	1395.75	952.64	1020.19	1395.82	46.96	0.89	SlimPulse	1
151	12396.00	89.80	50.20	94.00	11107.50	1489.68	1013.34	1091.96	1489.71	47.14	0.91	SlimPulse	1
152	12480.00	89.76	50.71	94.00	11107.86	1583.56	1073.19	1164.45	1583.56	47.34	0.54	SlimPulse	1
153	12585.00	89.72	51.42	95.00	11108.30	1678.37	1137.89	1238.34	1678.37	47.55	0.25	SlimPulse	1
154	12679.00	89.55	52.00	94.00	11108.69	1772.12	1191.14	1312.12	1772.14	47.77	0.64	SlimPulse	1
155	12773.00	89.52	51.89	94.00	11109.66	1865.84	1249.08	1385.14	1865.9	47.98	0.12	SlimPulse	1
156	12869.00	89.66	51.79	96.00	11110.34	1961.56	1308.39	1461.62	1961.69	48.17	0.18	SlimPulse	1
157	12965.00	89.59	51.16	96.00	11110.97	2057.33	1368.18	1536.72	2057.53	48.32	0.66	SlimPulse	1
158	13060.00	89.52	48.99	95.00	11111.71	2152.23	1429.15	1609.57	2152.48	48.40	2.29	SlimPulse	1
159	13155.00	89.35	48.61	95.00	11112.65	2247.20	1491.72	1681.04	2247.47	48.41	0.44	SlimPulse	1
160	13251.00	89.52	47.94	96.00	11113.59	2343.18	1555.61	1752.69	2343.47	48.41	0.72	SlimPulse	1
161	13346.00	89.73	46.01	95.00	11114.22	2438.17	1620.42	1822.13	2438.43	48.35	2.04	SlimPulse	1
162	13441.00	89.83	43.96	95.00	11114.58	2533.07	1687.61	1889.29	2533.27	48.23	2.16	SlimPulse	1
163	13536.00	89.35	42.15	95.00	11115.26	2627.78	1757.02	1954.14	2627.89	48.04	1.97	SlimPulse	1
164	13630.00	89.38	40.31	94.00	11116.30	2721.20	1827.71	2016.09	2721.24	47.81	1.96	SlimPulse	1
165	13725.00	90.13	43.40	95.00	11116.73	2815.73	1898.46	2079.47	2815.73	47.61	3.34	SlimPulse	1
166	13821.00	90.93	46.71	96.00	11116.71	2911.62	1966.27	2147.40	2911.62	47.52	3.45	SlimPulse	1
167	13915.00	90.00	46.87	94.00	11116.77	3006.61	2095.81	2285.03	3006.61	47.50	0.19	SlimPulse	1
168	14010.00	90.00	46.49	95.00	11116.73	3105.59	2161.32	2353.83	3105.59	47.44	0.19	SlimPulse	1
169	14100.00	90.04	46.31	95.00	11116.90	3200.55	2227.33	2422.15	3200.56	47.40	0.74	SlimPulse	1
170	14200.00	89.76	45.66	95.00	11117.12	3305.51	2293.68	2490.14	3305.52	47.35	0.24	SlimPulse	1
171	14295.00	89.57	45.74	95.00	11117.83	3400.49	2358.37	2559.69	3400.51	47.34	2.84	SlimPulse	1
172	14390.00	89.59	48.41	95.00	11117.49	3480.49	2421.88	2630.34	3480.51	47.36	0.88	SlimPulse	1
173	14485.00	90.00	47.68	95.00	11117.83	3575.49	2486.14	2700.32	3575.5	47.36	0.52	SlimPulse	1
174	14580.00	89.90	47.19	95.00	11117.91	3670.49	2486.14	2700.32	3670.5	47.36	0.12	SlimPulse	1
175	14675.00	89.70	47.20	95.00	11118.17	3705.49	2550.69	2770.01	3705.5	47.36	0.31	SlimPulse	1
176	14770.00	89.97	47.42	95.00	11118.37	3800.48	2615.11	2839.84	3800.5	47.36	0.31	SlimPulse	1
177	14865.00	90.07	47.73	95.00	11118.39	3955.48	2675.20	2909.96	3955.5	47.36	0.34	SlimPulse	1
178	14959.00	90.00	47.55	94.00	11118.28	4099.48	2742.53	2979.42	4099.5	47.37	0.21	SlimPulse	1
179	15055.00	90.03	47.78	96.00	11118.25	4145.48	2807.18	3050.39	4145.5	47.38	0.24	SlimPulse	1
180	15148.00	90.03	47.89	93.00	11118.23	4238.48	2868.61	3119.32	4238.49	47.39	0.12	SlimPulse	1
181	15242.00	88.31	48.20	94.00	11119.61	4332.46	2932.45	3189.21	4332.47	47.40	1.83	SlimPulse	1
182	15337.00	88.34	48.08	95.00	11122.39	4427.42	2995.81	3259.94	4427.43	47.42	0.13	SlimPulse	1
183	15431.00	88.18	47.76	94.00	11125.24	4521.37	3058.78	3329.67	4521.38	47.43	0.38	SlimPulse	1
184	15527.00	87.83	47.82	96.00	11128.59	4617.31	3125.24	3400.74	4617.32	47.44	0.37	SlimPulse	1
185	15622.00	87.59	47.98	95.00	11132.38	4712.24	3186.88	3471.17	4712.24	47.44	0.30	SlimPulse	1
186	15717.00	87.76	47.92	95.00	11136.24	4807.15	3250.46	3541.65	4807.16	47.45	0.19	SlimPulse	1
187	15812.00	87.69	48.09	95.00	11140.01	4902.08	3313.97	3612.20	4902.08	47.47	0.19	SlimPulse	1
188	15907.00	87.59	48.03	95.00	11143.92	4996.99	3377.41	3682.81	4996.99	47.48	0.12	SlimPulse	1
189	16001.00	87.59	47.86	94.00	11147.87	5090.91	3440.32	3752.54	5090.91	47.49	0.18	SlimPulse	1
190	16096.00	87.90	48.01	95.00	11151.61	5185.83	3503.91	3823.01	5185.83	47.49	0.36	SlimPulse	1
191	16191.00	88.21	48.70	95.00	11154.83	5280.76	3567.01	3893.96	5280.76	47.51	0.80	SlimPulse	1
192	16286.00	88.01	48.47	95.00	11157.97	5375.70	3629.82	3965.17	5375.7	47.53	0.32	SlimPulse	1
193	16380.00	88.11	48.21	94.00	11161.15	5469.63	3692.26	4035.35	5469.63	47.54	0.30	SlimPulse	1
194	16474.00	88.18	48.16	94.00	11164.19	5563.58	3754.90	4105.38	5563.58	47.55	0.09	SlimPulse	1
195	16568.00	87.94	47.73	94.00	11167.37	5657.52	3817.83	4175.13	5657.52	47.56	0.52	SlimPulse	1
196	16662.00	88.25	47.59	94.00	11170.50	5751.47	3881.11	4244.57	5751.47	47.56	0.36	SlimPulse	1
197	16756.00	87.63	47.09	94.00	11173.88	5845.40	3944.76	4313.65	5845.41	47.56	0.85	SlimPulse	1
198	16851.00	87.94	47.66	95.00	11177.55	5940.33	4009.05	4383.50	5940.33	47.55	0.68	SlimPulse	1
199	16946.00	87.98	48.24	95.00	11180.93	6035.27	4072.64	4454.00	6035.27	47.56	0.61	SlimPulse	1
200	17040.00	88.11	48.75	94.00	11184.14	6129.20	4134.89	4524.36	6129.2	47.58	0.56	SlimPulse	1
201	17134.00	88.22	48.54	94.00	11187.15	6223.11	4196.35	4595.44	6223.12	47.60	0.85	SlimPulse	1
202	17228.00	88.36	50.02	94.00	11189.95	6317.00	4257.02	4667.16	6317.01	47.63	0.53	SlimPulse	1
203	17323.00	88.08	50.03	95.00	11								