

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

NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 31 2015

RECEIVED

PATHFINDER
A Schlumberger Company

November 6, 2014

Cimarex
600 N MARIENFELD STREET SUITE 600

MIDLAND, TX 79701

Re:

S6-T20S-R31E 330 FNL 2280 FWL
N.32.60866 W 103.90958

CLIENT: Cimarex Energy Co.
WELL: Hasta La Vista 1 Federal Com 1H
FIELD: GATUNA CANYON; BONE SPRING
RIG: Scan Eagle
COUNTY: Eddy
API NO: 30-015-42533
JOB NO: 14MLD0482

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>
Steven Durham MWD	Hasta La Vista 1 Federal Com 1H Original Hole	8139.00 Ft to 15695.00 Ft	October 2, 2014 to October 10, 2014	SlimPulse

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

Jasem Alharer
Field Service Manager

Reservoir Development

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Oklahoma City, Oklahoma 73127 USA
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A Schlumberger Company

Well Reference:

S6-T20S-R31E 330 FNL 2280 FWL
N 32.60866 W 103.90958

I, Steven Durham certify that; I am employed by PathFinder, a division of Schlumberger Technology Corporation; that I did on the day(s) of October 02, 2014 through October 10, 2014, conduct or supervise the taking of the SlimPulse surveys from a depth of 8139.00 feet to a depth of 15695.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by PathFinder, 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 Hasta La Vista 1 Federal Com 1H Well (Original Hole) API No. 30-015-42533 and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by PathFinder, a division of Schlumberger Technology Corporation.

By
Steven Durham
MWD



Subscribed and Sworn to before me this 6th day of November (month) 2014 (yr)

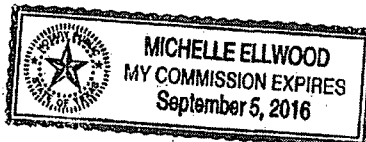
My Commission expires:

September 5, 2016

Michelle Ellwood

Notary Public

Midland, TX
(County State)



(signature)

SCHLUMBERGER
Survey Report

5-Nov-2014

Client..... Cimarex Energy Co.
Field..... Canyon; B.S.

Well..... Hasta La Vista 1 Federal Com 1H
API number..... 30-015-42533
Engineer..... S.Durham

Spud date..... 18-Sep-14
Last survey date..... 10-Oct-14
Total accepted surveys..... 105
MD of first survey..... 8139.00 ft
MD of last survey..... 15695.00 ft

County..... Eddy
State..... New Mexico
Rig..... Scandriil Eagle

Latitude..... 32° 36' 31.161" N
Longitude..... 103° 54' 34.488" W

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

----- Depth reference -----
Permanent datum..... MSL
Depth reference..... Driller's Depth
Gt above permanent..... 3439.00
KB above permanent..... 3464.00
DF above permanent..... 3464.00

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

----- Grid Coordinates -----
NAD27 Texas State Plane, Central Zone, US Feet
X..... 585419.75 ft
Y..... 671821.31 ft

Azimuth from Vsect Origin to target: 267.19 degrees

-----MWD Survey Reference Criteria-----

-----Run1----- Calculation Date: 2-Oct-2014
Location G..... 998.63244 mgn Tolerance G..... 2.50 mgn
Location B..... 48591.86 nT Tolerance B..... 300.00 nT
Magnetic Dip: 60.555 degrees Tolerance Dip: 0.45 degrees

-----Run2----- Calculation Date: 5-Oct-2014
Location G..... 998.63244 mgn Tolerance G..... 2.50 mgn
Location B..... 48591.86 nT Tolerance B..... 300.00 nT
Magnetic Dip: 60.56 degrees Tolerance Dip: 0.45 degrees

HDGM Model: 2014

-----Run1-----
Magnetic dec (+E/-)..... 7.695 degrees
Grid Conv (+E/-)..... 0.225 degrees
Total Azim Corr (+E/-)..... 7.47 degrees

-----Run2-----
Magnetic dec (+E/-)..... 7.695 degrees
Grid Conv (+E/-)..... 0.225 degrees
Total Azim Corr (+E/-)..... 7.47 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)	V Sec (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	55.10	0.07	1.43	55.10	55.10	0.00	0.03	0.00	0.03	1.43	0.13	SingleShot	0
3	150.30	0.14	328.64	95.20	150.30	0.05	0.19	-0.06	0.2	343.05	0.09	SingleShot	0
4	245.60	0.32	298.25	95.30	245.60	0.33	0.42	-0.35	0.55	319.70	0.22	SingleShot	0
5	340.90	0.60	275.07	95.30	340.90	1.05	0.59	-1.08	1.23	298.40	0.35	SingleShot	0
6	436.10	0.73	263.52	95.20	436.09	2.15	0.56	-2.18	2.25	284.44	0.20	SingleShot	0
7	562.00	0.66	255.79	125.90	561.98	3.66	0.29	-3.68	3.7	274.56	0.09	SingleShot	0
8	657.30	0.58	250.44	95.30	657.27	4.66	0.00	-4.67	4.67	269.97	0.10	SingleShot	0
9	752.50	0.46	244.82	95.20	752.47	5.48	-0.33	-5.47	5.48	266.58	0.14	SingleShot	0
10	847.80	0.28	237.82	95.30	847.77	6.04	-0.61	-6.01	6.04	264.18	0.19	SingleShot	0
11	943.10	0.14	204.98	95.30	943.07	6.29	-0.84	-6.26	6.32	262.33	0.19	SingleShot	0
12	1038.30	0.14	157.86	95.20	1038.27	6.31	-1.06	-6.26	6.35	260.43	0.12	SingleShot	0
13	1133.60	0.12	112.35	95.30	1133.57	6.18	-1.20	-6.13	6.25	258.91	0.11	SingleShot	0
14	1228.90	0.30	92.57	95.30	1228.87	5.84	-1.25	-5.79	5.92	257.80	0.20	SingleShot	0
15	1324.20	0.74	72.20	95.30	1324.16	5.00	-1.07	-4.95	5.07	257.76	0.49	SingleShot	0
16	1419.40	1.01	70.88	95.20	1419.35	3.60	-0.61	-3.57	3.63	260.29	0.28	SingleShot	0
17	1514.70	1.69	63.42	95.30	1514.62	1.51	0.29	-1.52	1.55	280.87	0.74	SingleShot	0

18	1610.00	1.86	66.62	95.30	1609.88	-1.23	1.54	1.15	1.92	36.90	0.21	SingleShot	0
19	1705.20	2.00	55.93	95.30	1705.03	-4.09	3.08	3.95	5.01	52.04	0.41	SingleShot	0
20	1800.50	1.78	60.05	95.30	1800.27	-6.83	4.75	6.61	8.14	54.29	0.27	SingleShot	0
21	1893.80	1.39	57.78	95.30	1893.54	-0.16	6.10	8.87	10.77	55.45	0.42	SingleShot	0
22	1991.00	1.21	52.69	95.20	1990.71	-10.99	7.33	10.64	12.92	55.45	0.22	SingleShot	0
23	2086.30	0.81	42.26	95.30	2086.00	-12.30	8.44	11.90	14.59	54.65	0.46	SingleShot	0
24	2181.60	0.73	33.71	95.30	2181.29	-13.13	9.44	12.69	15.81	53.94	0.15	SingleShot	0
25	2276.90	0.77	28.20	95.30	2276.58	-13.83	10.51	13.33	16.97	51.74	0.09	SingleShot	0
26	2372.10	1.07	22.78	95.20	2371.77	-14.52	11.86	13.96	18.31	49.65	0.28	SingleShot	0
27	2467.40	1.10	19.92	95.30	2467.05	-15.24	13.50	14.60	19.88	47.24	0.10	SingleShot	0
28	2562.00	1.21	16.52	95.30	2562.33	-15.99	15.32	15.19	21.56	44.76	0.14	SingleShot	0
29	2657.90	1.33	13.72	95.20	2657.51	-16.57	17.36	15.74	23.43	42.20	0.14	SingleShot	0
30	2753.20	1.44	1.33	95.30	2752.78	-16.98	19.63	16.39	25.35	39.24	0.33	SingleShot	0
31	2848.50	1.56	1.54	95.30	2848.05	-17.16	22.13	16.10	27.36	36.03	0.13	SingleShot	0
32	2943.70	1.59	0.17	95.20	2943.21	-17.33	24.74	16.13	29.54	33.11	0.05	SingleShot	0
33	3039.00	1.52	357.77	95.30	3038.48	-17.41	27.33	16.09	31.71	30.49	0.10	SingleShot	0
34	3134.30	1.56	359.05	95.30	3133.74	-17.46	29.89	16.02	33.91	28.19	0.06	SingleShot	0
35	3229.60	1.50	3.62	95.30	3229.01	-17.65	32.43	16.08	36.19	26.37	0.14	SingleShot	0
36	3324.80	1.38	1.02	95.20	3324.18	-17.86	34.82	16.17	38.39	24.92	0.14	SingleShot	0
37	3420.10	1.41	1.30	95.30	3419.45	-18.02	37.14	16.22	40.53	23.60	0.03	SingleShot	0
38	3515.40	1.42	7.00	95.30	3514.72	-18.21	39.49	16.29	42.72	22.42	0.02	SingleShot	0
39	3610.60	1.42	2.68	95.20	3609.89	-18.42	41.85	16.39	44.94	21.38	0.02	SingleShot	0
40	3705.90	1.40	2.00	95.30	3705.16	-18.63	44.19	16.48	47.16	20.45	0.03	SingleShot	0
41	3801.20	1.46	7.35	95.30	3800.44	-18.94	46.56	16.68	49.45	19.71	0.15	SingleShot	0
42	3896.40	1.51	8.95	95.20	3895.60	-19.41	49.00	17.03	51.67	19.16	0.07	SingleShot	0
43	3991.70	1.64	8.61	95.30	3990.87	-19.94	51.59	17.43	54.45	18.67	0.14	SingleShot	0
44	4086.00	1.49	65.28	93.30	4084.14	-21.33	53.42	18.73	56.6	19.32	1.60	SingleShot	0
45	4180.00	1.09	16.74	95.00	4179.11	-22.26	55.15	20.08	58.69	20.01	1.44	SingleShot	0
46	4274.00	0.22	326.14	94.00	4273.20	-22.95	56.50	20.21	60	19.68	1.43	SingleShot	0
47	4369.00	0.31	205.38	95.00	4368.10	-22.74	56.42	20.00	59.85	19.52	0.49	SingleShot	0
48	4464.00	0.31	201.64	95.00	4463.10	-22.51	55.94	19.79	59.34	19.48	0.02	SingleShot	0
49	4559.00	0.31	218.87	95.00	4558.09	-22.23	55.51	19.54	58.84	19.39	0.10	SingleShot	0
50	4654.00	0.09	230.47	95.00	4653.09	-22.00	55.76	19.37	58.54	19.27	0.23	SingleShot	0
51	4749.00	0.00	185.56	95.00	4748.09	-21.94	55.21	19.26	58.47	19.23	0.09	SingleShot	0
52	4844.00	0.09	47.57	96.00	4844.09	-22.00	55.26	19.31	58.54	19.27	0.09	SingleShot	0
53	4940.00	0.09	65.94	95.00	4939.09	-22.13	55.34	19.44	58.66	19.35	0.03	SingleShot	0
54	5035.00	0.31	78.77	95.00	5034.09	-22.45	55.42	19.76	58.84	19.62	0.23	SingleShot	0
55	5130.00	0.40	96.17	95.00	5129.09	-23.03	55.44	20.34	59.05	20.15	0.15	SingleShot	0
56	5225.00	0.40	82.55	95.00	5224.09	-23.69	55.44	21.00	59.29	20.74	0.10	SingleShot	0
57	5320.00	0.48	64.66	95.00	5319.09	-24.39	55.66	21.69	59.73	21.79	0.17	SingleShot	0
58	5416.00	0.70	55.35	96.00	5415.08	-25.26	56.16	22.53	60.51	21.86	0.25	SingleShot	0
59	5511.00	0.88	51.57	95.00	5510.07	-26.35	56.95	23.58	61.64	22.49	0.20	SingleShot	0
60	5606.00	1.19	48.98	95.00	5605.06	-27.71	58.05	24.90	63.16	23.22	0.33	SingleShot	0
61	5701.00	1.19	90.68	95.00	5700.04	-29.47	58.68	26.63	64.44	24.41	0.89	SingleShot	0
62	5796.00	1.80	124.78	95.00	5795.01	-31.64	57.82	28.84	64.61	26.51	1.11	SingleShot	0
63	5892.00	1.89	129.97	96.00	5890.96	-34.00	55.94	31.29	64.1	26.51	1.11	SingleShot	0
64	5987.00	1.58	126.67	95.00	5985.91	-36.16	54.15	33.54	63.7	29.22	0.20	SingleShot	0
65	6082.00	1.32	117.27	95.00	6080.88	-38.12	52.87	35.57	63.72	33.93	0.37	SingleShot	0
66	6177.00	1.41	112.74	95.00	6175.86	-40.12	51.92	37.62	64.11	35.92	0.15	SingleShot	0
67	6272.00	1.41	99.47	95.00	6270.83	-42.31	51.27	39.85	64.94	37.85	0.34	SingleShot	0
68	6367.00	1.32	89.36	95.00	6365.80	-44.55	51.09	42.08	66.2	39.48	0.27	SingleShot	0
69	6462.00	1.49	128.17	95.00	6460.77	-46.38	50.34	44.16	66.97	41.26	1.00	SingleShot	0
70	6557.00	1.58	141.04	96.00	6556.74	-48.30	48.54	45.97	66.86	43.44	0.37	SingleShot	0
71	6652.00	1.01	146.14	95.00	6651.72	-49.50	46.83	47.26	66.53	45.26	0.61	SingleShot	0
72	6748.00	0.62	151.15	96.00	6747.21	-50.17	45.67	47.99	66.25	46.42	0.41	SingleShot	0
73	6844.00	0.70	192.15	95.00	6842.70	-50.24	44.65	48.11	65.64	47.13	0.49	SingleShot	0
74	6939.00	1.01	228.77	95.00	6937.69	-49.44	43.54	47.36	64.33	47.47	0.64	SingleShot	0
75	7034.00	1.41	269.85	95.00	7032.67	-47.62	42.97	45.57	62.63	46.68	0.99	SingleShot	0
76	7130.00	1.71	279.38	96.00	7128.63	-45.04	43.20	42.98	60.94	44.85	0.41	SingleShot	0
77	7225.00	1.41	243.26	95.00	7223.60	-42.59	42.90	40.53	59.02	43.87	1.06	SingleShot	0
78	7320.00	2.02	252.84	95.00	7318.56	-39.90	41.88	37.89	56.48	42.13	0.71	SingleShot	0
79	7414.00	2.20	248.05	94.00	7412.49	-36.59	40.72	34.63	53.46	40.38	0.27	SingleShot	0
80	7510.00	2.50	232.98	96.00	7508.42	-38.77	38.77	31.25	49.8	38.87	0.71	SingleShot	0
81	7606.00	2.59	236.45	96.00	7604.32	-29.52	36.31	27.77	45.72	37.41	0.31	SingleShot	0
82	7701.00	2.81	230.65	95.00	7699.22	-25.81	33.65	24.18	41.44	35.70	0.37	SingleShot	0
83	7796.00	2.59	233.24	95.00	7794.11	-22.15	30.89	20.66	37.16	33.78	0.26	SingleShot	0
84	7891.00	2.11	240.67	95.00	7889.03	-18.81	28.75	17.42	33.61	31.21	0.60	SingleShot	0
85	7986.00	1.10	243.26	95.00	7983.99	-16.41	27.48	15.08	31.35	28.76	1.07	SingleShot	0
86	8082.00	0.62	207.36	96.00	8079.98	-15.31	26.60	14.02	30.07	27.79	0.73	SingleShot	0
87	8178.00	0.95	198.70	31.00	8136.98	-15.18	26.33	13.90	29.77	27.84	0.49	SingleShot	0
88	8273.00	0.70	198.65	26.00	8105.98	-15.01	25.91	13.76	29.33	27.98	0.82	SingleShot	0
89	8371.00	3.31	221.49	32.00	8168.95	-12.03	24.96	13.06	28.17	27.62	7.67	SingleShot	0
90	8473.00	7.95	223.51	32.00	8200.79	-12.03	22.66	10.93	25.16	25.74	14.53	SingleShot	1
91	8575.00	12.18	231.11	32.00	8232.29	-7.69	18.94	6.77	20.11	19.68	13.83	SingleShot	1
92	8676.00	16.64	238.94	31.00	8262.31	-1.14	14.59	0.42	14.6	1.66	15.67	SingleShot	1
93	8778.00	18.98	242.70	32.00	8292.78	7.64	9.84	-8.13	12.76	370.45	8.14	SingleShot	1
94	8879.00	21.78	243.75	32.00	8322.77	17.82	4.83	-18.08	18.71	284.95	8.82	SingleShot	1
95	8981.00	23.75	243.55	31.00	8351.35	28.82	-0.50	-28.83	28.83	269.01	6.36	SingleShot	1
96	9083.00	24.80	247.15	32.00	8380.53	41.03	-5.97	-40.78	41.22	261.67	5.67	SingleShot	1
97	9185.00	26.26	250.56	32.00	8409.40	54.12	-10.94	-53.64	54.75	258.48	6.47	SingleShot	1
98	9287.00	29.34	252.52	32.00	8437.71	68.49	-15.65	-67.80	69.58	257.00	10.04	SingleShot	1
99	9388.00	31.85	254.09	31.00	8464.99	83.80	-20.17	-82.91	85.33	256.33	8.50	SingleShot	1
100	9490.00	34.02	255.26	32.00	8491.19	100.86	-24.78	-99.76	102.8	256.05	8.03	SingleShot	1
101	9592.00	36.02	256.05	32.00	8517.35	118.92	-29.35	-117.63	121.23	255.99	5.44	SingleShot	1
102	9694.00	38.40	257.71	32.00	8542.83	137.96	-33.73	-136.47	140.58	256.12	8.07	SingleShot	1
103	9795.00	41.89	259.26	31.00	8566.53	157.72	-37.72	-156.05	160.55	256.41	11.71	SingleShot	1
104	9897.00	46.17	261.14	32.00	8589.83	179.79	-41.48	-177.97	182.74	256.88	13.98	SingleShot	1
105	9999.00	50.02	262.39	32.00	8610.90	203.49	-44.89	-201.53	206.47	257.44	12.38	SingleShot	1
106	8710.00	52.09	262.40	31.00	8630.38	227.51	-48.08	-225.43	230.5	257.96	6.68	SingleShot	1
107	8742.00	53.47	261.47	32.00	8649.65	252.96	-51.66	-250.72					

108	8774.00	56.78	260.21	32.00	8667.97	279.03	-55.84	-276.62	282.2	258.59	8.19	Simple	1
109	8805.00	58.43	261.04	31.00	8684.69	304.96	-60.09	-302.38	308.29	258.76	7.29	Simple	1
110	8837.00	61.36	263.36	32.00	8700.74	332.53	-63.84	-329.80	335.97	259.04	11.10	Simple	1
111	8869.00	64.04	264.35	32.00	8715.42	360.92	-66.88	-358.07	364.26	259.47	8.81	Simple	1
112	8900.00	65.75	265.52	31.00	8728.57	388.96	-69.36	-386.03	392.21	259.81	6.49	Simple	1
113	8932.00	67.48	266.72	32.00	8741.27	418.32	-71.60	-415.31	421.44	260.32	5.44	Simple	1
114	8964.00	69.95	268.57	32.00	8754.89	448.13	-73.87	-445.04	451.13	260.58	7.73	Simple	1
115	8996.00	73.21	269.45	32.00	8768.00	478.96	-76.18	-475.31	481.37	260.89	10.19	Simple	1
116	9027.00	75.00	265.38	31.00	8771.49	508.27	-78.50	-505.03	511.1	261.17	5.86	Simple	1
117	9059.00	77.02	265.95	32.00	8779.22	539.31	-80.84	-535.99	542.05	261.42	6.54	Simple	1
118	9091.00	79.05	267.06	32.00	8785.86	570.61	-82.75	-567.24	573.24	262.70	7.19	Simple	1
119	9123.00	80.52	267.83	32.00	8791.69	602.10	-84.15	-598.70	604.58	262.00	5.17	Simple	1
120	9154.00	83.13	268.69	31.00	8795.94	632.78	-85.08	-629.37	635.09	262.30	8.86	Simple	1
121	9186.00	88.17	269.45	32.00	8798.46	664.66	-85.60	-661.26	666.78	262.62	15.93	Simple	1
122	9217.00	91.61	270.72	31.00	8798.46	695.62	-85.60	-692.75	697.52	262.95	11.83	Simple	1
123	9249.00	91.95	270.41	32.00	8797.43	727.44	-85.24	-724.24	729.23	263.29	1.44	Simple	1
124	9281.00	92.61	270.33	45.00	8795.64	772.44	-84.95	-769.20	773.88	263.70	1.48	Simple	0
125	9313.00	90.76	269.57	95.00	8792.85	867.28	-85.04	-864.15	868.33	264.38	2.11	Simple	0
126	9345.00	90.65	267.30	94.00	8791.69	961.25	-87.61	-958.10	962.1	264.78	2.42	Simple	0
127	9377.00	90.14	265.81	95.00	8791.69	1056.24	-93.31	-1052.93	1057.05	264.94	1.65	Simple	0
128	9409.00	90.00	263.89	95.00	8790.92	1151.15	-101.84	-1147.54	1152.05	264.99	2.03	Simple	0
129	9441.00	90.14	262.12	95.00	8790.92	1245.90	-113.41	-1241.83	1247	264.78	1.87	Simple	0
130	9473.00	89.86	261.13	94.00	8790.92	1339.45	-127.09	-1334.83	1340.86	264.56	1.09	Simple	0
131	9505.00	90.28	261.81	95.00	8790.69	1433.98	-141.18	-1428.78	1435.73	264.36	0.83	Simple	0
132	9537.00	89.72	265.15	95.00	8790.69	1528.77	-151.97	-1523.15	1530.71	264.30	3.56	Simple	0
133	9569.00	89.72	267.77	94.00	8791.44	1627.75	-157.77	-1616.96	1624.64	264.43	2.79	Simple	0
134	9601.00	90.03	267.26	95.00	8791.44	1717.75	-161.89	-1711.87	1719.51	264.60	0.63	Simple	0
135	9633.00	89.52	266.92	95.00	8791.71	1812.75	-166.71	-1806.74	1814.42	264.73	0.65	Simple	0
136	9665.00	89.90	266.40	94.00	8792.19	1906.74	-172.19	-1900.58	1908.37	264.82	0.69	Simple	0
137	9697.00	90.14	266.88	95.00	8792.19	2001.74	-177.76	-1995.42	2003.32	264.91	0.57	Simple	0
138	9729.00	90.55	267.63	95.00	8791.59	2096.73	-182.31	-2090.31	2098.24	265.02	0.91	Simple	0
139	9761.00	90.93	267.36	95.00	8790.37	2191.72	-189.70	-2185.21	2199.15	265.12	0.49	Simple	0
140	9793.00	91.34	268.69	94.00	8788.50	2285.69	-189.70	-2279.13	2287.01	265.24	1.48	Simple	0
141	9825.00	90.83	272.59	95.00	8786.14	2380.55	-185.44	-2374.09	2381.64	265.44	3.09	Simple	0
142	9857.00	90.83	272.59	95.00	8784.20	2475.16	-185.95	-2469.01	2476	265.69	1.35	Simple	0
143	9889.00	90.59	273.44	94.00	8783.04	2569.66	-181.01	-2562.87	2569.25	265.96	0.94	Simple	0
144	9921.00	90.52	274.36	96.00	8782.12	2664.00	-174.48	-2658.64	2664.36	266.25	0.97	Simple	0
145	9953.00	90.65	274.48	95.00	8781.15	2758.24	-167.16	-2753.35	2758.42	266.53	0.19	Simple	0
146	9985.00	90.69	274.54	95.00	8780.04	2852.45	-159.69	-2848.05	2852.53	266.79	0.07	Simple	0
147	10017.00	90.89	273.64	96.00	8778.71	2947.75	-152.84	-2943.80	2947.76	267.03	0.96	Simple	0
148	10049.00	91.27	272.25	95.00	8776.92	3042.25	-149.96	-3038.65	3042.25	267.21	1.52	Simple	0
149	10081.00	91.65	269.10	94.00	8774.52	3136.04	-146.85	-3132.60	3136.04	267.32	0.37	Simple	0
150	10113.00	91.96	268.47	95.00	8774.52	3230.95	-146.87	-3227.53	3230.97	267.36	0.74	Simple	0
151	10145.00	91.69	266.47	95.00	8774.52	3325.90	-153.06	-3322.39	3325.91	267.36	2.12	Simple	0
152	10177.00	91.76	266.50	95.00	8765.65	3420.85	-158.68	-3417.17	3420.86	267.34	0.08	Simple	0
153	10209.00	91.93	266.34	94.00	8762.54	3515.78	-165.12	-3511.91	3515.79	267.31	0.61	Simple	0
154	10241.00	92.07	266.94	95.00	8759.32	3609.71	-171.42	-3605.64	3609.72	267.28	0.40	Simple	0
155	10273.00	92.31	268.86	95.00	8756.01	3704.65	-176.97	-3700.42	3704.65	267.26	0.65	Simple	0
156	10305.00	92.44	268.50	95.00	8752.30	3799.57	-180.75	-3795.27	3799.57	267.27	1.67	Simple	0
157	10337.00	92.44	268.07	95.00	8748.78	3894.47	-183.59	-3890.14	3894.47	267.30	0.45	Simple	0
158	10369.00	92.24	267.71	94.00	8744.45	3988.38	-187.05	-3984.00	3988.39	267.31	0.44	Simple	0
159	10401.00	92.31	268.86	95.00	8740.68	4083.29	-189.90	-4078.88	4083.3	267.33	1.22	Simple	0
160	10433.00	92.79	269.71	95.00	8736.46	4178.13	-191.08	-4173.78	4178.15	267.38	1.03	Simple	0
161	10465.00	93.06	269.28	95.00	8731.61	4272.93	-191.91	-4268.65	4272.97	267.43	0.53	Simple	0
162	10497.00	92.82	268.05	95.00	8726.74	4367.77	-194.12	-4363.50	4367.82	267.45	1.32	Simple	0
163	10529.00	91.24	268.10	95.00	8723.37	4462.70	-197.31	-4458.38	4462.75	267.47	1.67	Simple	0
164	10561.00	90.96	265.03	94.00	8721.57	4556.66	-202.94	-4552.19	4556.71	267.45	3.27	Simple	0
165	10593.00	89.97	261.30	95.00	8720.80	4651.41	-204.23	-4646.49	4651.43	267.36	4.07	Simple	0
166	10625.00	90.38	261.40	95.00	8720.80	4745.91	-204.52	-4740.41	4745.92	267.24	0.45	Simple	0
167	10657.00	90.52	265.17	95.00	8719.77	4840.67	-205.19	-4834.74	4840.67	267.16	3.96	Simple	0
168	10689.00	91.07	268.05	94.00	8718.47	4934.65	-205.19	-4928.56	4934.65	267.15	3.12	Simple	0
169	10721.00	91.07	268.04	95.00	8716.70	5029.62	-204.43	-5023.48	5029.62	267.17	0.01	Simple	0
170	10753.00	91.03	266.80	95.00	8714.96	5124.60	-203.70	-5118.37	5124.6	267.17	1.30	Simple	0
171	10785.00	90.69	266.67	94.00	8713.55	5218.59	-204.05	-5212.21	5218.59	267.17	0.39	Simple	0
172	10817.00	90.21	265.90	95.00	8712.81	5313.57	-204.20	-5307.00	5313.58	267.15	0.96	Simple	0
173	10849.00	89.52	265.87	94.00	8713.04	5407.55	-207.94	-5400.26	5407.55	267.13	0.73	Simple	0
174	10881.00	88.97	266.41	95.00	8714.29	5502.52	-207.33	-5495.54	5502.53	267.11	0.82	Simple	0
175	10913.00	89.24	267.10	95.00	8715.77	5597.51	-208.71	-5590.37	5597.52	267.10	0.78	Simple	0
176	10945.00	90.10	267.71	94.00	8716.51	5691.51	-208.96	-5684.27	5691.51	267.11	1.12	Simple	0
177	10977.00	90.89	267.97	95.00	8715.48	5786.50	-209.54	-5779.20	5786.5	267.12	0.87	Simple	0
178	11009.00	90.89	267.15	95.00	8714.00	5881.48	-204.58	-5874.10	5881.48	267.13	0.85	Simple	0
179	11041.00	90.65	266.85	94.00	8712.73	5975.47	-209.50	-5967.97	5975.48	267.13	0.42	Simple	0
180	11073.00	90.55	266.63	95.00	8711.73	6070.46	-204.91	-6062.81	6070.47	267.12	0.26	Simple	0
181	11105.00	90.86	267.66	95.00	8710.56	6165.46	-209.65	-6157.68	6165.46	267.12	1.13	Simple	0
182	11137.00	90.36	268.82	95.00	8709.31	6260.44	-204.23	-6252.56	6260.45	267.12	0.89	Simple	0
183	11169.00	89.93	266.61	94.00	8708.05	6354.43	-204.23	-6346.40	6354.44	267.12	1.12	Simple	0
184	11201.00	89.66	266.25	95.00	8708.66	6449.43	-204.23	-6441.21	6449.43	267.11	0.47	Simple	0
185	11233.00	90.03	266.68	95.00	8708.91	6544.42	-204.23	-6536.03	6544.43	267.10	0.60	Simple	0
186	11265.00	90.03	266.77	95.00	8708.66	6639.42	-204.23	-6630.88	6639.42	267.09	0.09	Simple	0
187	11297.00	90.24	267.40	95.00	8707.63	6734.41	-204.23	-6725.75	6734.42	267.09	0.70	Simple	0
188	11329.00	90.86	267.76	95.00	8706.72	6829.41	-204.23	-6820.66	6829.41	267.10	0.75	Simple	0
189	11361.00	91.79	268.07	95.00	8705.52	6924.37	-204.23	-6915.57	6924.38	267.11	1.03	Simple	0
190	11393.00	91.89	268.35	95.00	8704.27	7019.31	-204.23	-7010.48	7019.31	267.12	0.31	Simple	0
191	11425.00	90.79	266.96	94.00	8703.77	7113.28	-204.23	-7104.37	7113.28	267.13	1.88	Simple	0
192	11457.00	90.52	265.64										