

Oilfield Services, Central U.S. Land

Schlumberger

Reservoir Development

Drilling & Measurements

4301 SW 44th St

Oklahoma City, Oklahoma 73119 USA

Phone: (405) 682-2284

Fax: (405) 682-3937

June 6, 2014

Cimarex

600N MARIENFELD ST STE600

MIDLAND, TX 79701

HOBBSD

FEB 10 2015

RECEIVED

Re:

CLIENT: Cimarex Energy Co.
WELL: Cascade 29 Federal #3H
FIELD: Wildcat; Bonespring
RIG: Cactus101
COUNTY: Lea
API NO: 30-025-41241
JOB NO: 14MLD0489

S29-T25S-R33E 330 FNL 2310 FEL
N 32.10793 W 103.59323

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 & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Kurt Valentine MWD	Cascade 29 Federal #3H Original Hole	9321.00 Ft to 14168.00 Ft	May 22, 2014 to June 5, 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

FEB 26 2015

Reservoir Development

Drilling & Measurements

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Well Reference:

S29-T25S-R33E 330 FNL 2310 FEL

N 32.10793 W 103.59323

I, Kurt Valentine certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of May 22, 2014 through June 05, 2014, conduct or supervise the taking of the SlimPulse surveys from a depth of 9321.00 feet to a depth of 14168.00 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 Cascade 29 Federal #3H Well (Original Hole) API No. 30-025-41241 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

Kurt Valentine

MWD

Subscribed and Sworn to before me this 11th day of JUNE (month) 2014 (yr)

My Commission expires:

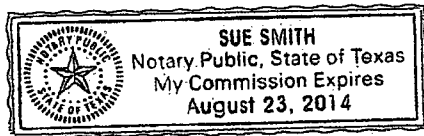
August 23, 2014

(signature)

Notary Public

Midland Co. Texas

(County State)



SCHLUMBERGER
Survey Report

28-Aug-2014

Client..... Cimarex Energy Co
Field..... Wildcat Bone Spring

Well..... Cascade 29 Federal #3H
API number..... 30-025-41241
Engineer..... Kurt Valentine

Spud date..... 7-May-14
Last survey date..... 5-Jun-14
Total accepted surveys..... 174
MO of first survey..... 9321.00 ft
MO of last survey..... 14168.00 ft

County..... Lea
State..... New Mexico
Rig..... Cactus 101

Latitude..... 32° 6' 28.54" N
Longitude..... 103° 35' 35.62" 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..... 3412.00
KB above permanent..... 3430.00
DF above permanent..... 3430.00

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

--- Grid Coordinates ---
NAD27 Texas State Plane, Central Zone, US Feet
X..... 770495.20 ft
Y..... 403787.00 ft

Azimuth from Vsect Origin to target: 178.69 degrees

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

---Run1--- Calculation Date: 24-May-2014
Location G..... 998.81737 mgn Tolerance G..... 2.50 mgn
Location B..... 48226.52 nT Tolerance B..... 300.00 nT
Magnetic Dip: 59.98552 degrees Tolerance Dip: 0.45 degrees

---Run2--- Calculation Date: 29-May-2014
Location G..... 998.81737 mgn Tolerance G..... 2.50 mgn
Location B..... 48224.93 nT Tolerance B..... 300.00 nT
Magnetic Dip: 59.9851 degrees Tolerance Dip: 0.45 degrees

---Run3--- Calculation Date: 31-May-2014
Location G..... 998.81737 mgn Tolerance G..... 2.50 mgn
Location B..... 48224.29 nT Tolerance B..... 300.00 nT
Magnetic Dip: 59.98494 degrees Tolerance Dip: 0.45 degrees

---Run4--- Calculation Date: 2-Jun-2014
Location G..... 998.81737 mgn Tolerance G..... 2.50 mgn
Location B..... 48223.66 nT Tolerance B..... 300.00 nT
Magnetic Dip: 59.98477 degrees Tolerance Dip: 0.45 degrees

---Run5--- Calculation Date: 4-Jun-2014
Location G..... 998.81737 mgn Tolerance G..... 2.50 mgn
Location B..... 48223.02 nT Tolerance B..... 300.00 nT
Magnetic Dip: 59.98461 degrees Tolerance Dip: 0.45 degrees

BGGM Model: 2013

---Run1---
Magnetic dec (+E/W-)..... 7.33788 degrees
Grid Conv (+E/W-)..... 0.39339 degrees
Total Azim Corr (+E/W-)..... 6.94449 degrees

---Run2---
Magnetic dec (+E/W-)..... 7.33635 degrees
Grid Conv (+E/W-)..... 0.39339 degrees
Total Azim Corr (+E/W-)..... 6.94296 degrees

---Run3---
Magnetic dec (+E/W-)..... 7.33574 degrees
Grid Conv (+E/W-)..... 0.39339 degrees
Total Azim Corr (+E/W-)..... 6.94235 degrees

---Run4---
Magnetic dec (+E/W-)..... 7.33513 degrees
Grid Conv (+E/W-)..... 0.39339 degrees
Total Azim Corr (+E/W-)..... 6.94174 degrees

---Run5---

Magnetic dec (+E/W)...: 7.33452 degrees
Grid Conv (+E/W)...: 0.3934 degrees
Total Azim Corr (+E/W)...: 6.94112 degrees

Survey Correction Index Description-----
0 = Uncorrected 2 = Sag Corrected
1 = DMAG Corrected 3 = Sag + DMAG Corrected 7= Proj to bit

Seq	MD (ft)	Incl (deg)	Azim (deg)	Survey List				N/S (ft)	E/W (ft)	Closure (ft)	at Azi (deg)	DLS (deg/100ft)	Tool	Correction
				Course (ft)	TVD (ft)	V Sec (ft)								
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	18.00	0.00	0.00	18.00	18.00	0.00		0.00	0.00	0	90.00	0.00	Other	0
3	136.00	0.22	58.15	118.00	136.00	-0.12		0.12	0.19	0.27654	58.15	0.19	Other	0
4	204.00	0.22	128.15	68.00	204.00	-0.10		0.11	0.41	0.42006	75.13	0.37	Other	0
5	291.00	0.22	137.64	87.00	291.00	0.13		-0.12	0.65	0.66065	100.36	0.04	Other	0
6	376.00	0.09	115.54	85.00	376.00	0.29		-0.27	0.82	0.86281	108.11	0.17	Other	0
7	459.00	0.09	316.63	83.00	459.00	0.27		-0.25	0.83	0.87047	108.61	0.21	Other	0
8	547.00	0.09	302.44	88.00	547.00	0.18		-0.16	0.73	0.74604	102.51	0.03	Other	0
9	641.00	0.22	359.35	94.00	641.00	-0.04		0.06	0.66	0.66655	84.97	0.20	Other	0
10	733.00	0.09	33.84	92.00	733.00	-0.28		0.30	0.70	0.76171	67.20	0.17	Other	0
11	828.00	0.09	306.13	95.00	828.00	-0.40		0.40	0.68	0.79249	59.60	0.13	Other	0
12	925.00	0.31	287.66	97.00	925.00	-0.52		0.53	0.37	0.64389	35.28	0.23	Other	0
13	989.00	0.31	265.06	64.00	989.00	-0.56		0.56	0.04	0.55832	3.60	0.21	Other	0
14	1069.00	0.09	256.95	80.00	1069.00	-0.52		0.52	-0.24	0.57028	335.01	0.28	Other	0
15	1100.00	0.09	299.14	31.00	1100.00	-0.53		0.53	-0.29	0.59627	331.34	0.21	Other	0
16	1195.00	0.09	250.93	95.00	1195.00	-0.54		0.54	-0.42	0.68132	321.77	0.08	Other	0
17	1289.00	0.22	326.87	94.00	1288.99	-0.68		0.66	-0.59	0.88694	318.30	0.23	Other	0
18	1384.00	0.22	285.87	95.00	1383.99	-0.88		0.86	-0.87	1.22327	314.99	0.16	Other	0
19	1480.00	0.22	26.86	96.00	1479.99	-1.10		1.08	-0.96	1.44416	318.38	0.35	Other	0
20	1576.00	0.31	283.63	96.00	1575.99	-1.33		1.31	-1.13	1.72532	319.16	0.44	Other	0
21	1666.00	0.31	278.66	90.00	1665.99	-1.44		1.40	-1.61	2.12978	311.07	0.03	Other	0
22	1761.00	0.22	252.65	95.00	1760.99	-1.43		1.38	-2.03	2.45978	304.23	0.16	Other	0
23	1856.00	0.31	277.43	95.00	1855.99	-1.42		1.36	-2.46	2.81444	298.95	0.15	Other	0
24	1951.00	0.31	297.65	95.00	1950.99	-1.58		1.51	-2.95	3.31196	297.22	0.11	Other	0
25	2045.00	0.22	287.85	94.00	2044.99	-1.76		1.69	-3.34	3.74441	296.80	0.11	Other	0
26	2139.00	0.09	335.27	94.00	2138.99	-1.89		1.81	-3.54	3.98052	297.06	0.18	Other	0
27	2235.00	0.22	343.83	96.00	2234.99	-2.14		2.06	-3.63	4.16992	299.54	0.14	Other	0
28	2328.00	0.31	336.06	93.00	2327.99	-2.54		2.46	-3.78	4.50829	303.03	0.10	Other	0
29	2417.00	0.40	337.24	89.00	2416.98	-3.05		2.96	-4.00	4.97648	306.56	0.10	Other	0
30	2511.00	0.48	341.86	94.00	2510.98	-3.74		3.64	-4.25	5.59396	310.61	0.09	Other	0
31	2607.00	0.48	356.14	96.00	2606.98	-4.52		4.42	-4.40	6.23912	315.16	0.12	Other	0
32	2708.00	0.40	2.16	101.00	2707.98	-5.30		5.20	-4.41	6.82	319.66	0.09	Other	0
33	2803.00	0.62	178.86	95.00	2802.97	-5.12		5.02	-4.39	6.66693	318.80	1.07	Other	0
34	2898.00	0.70	14.86	95.00	2897.97	-5.16		5.06	-4.23	6.59925	320.10	1.38	Other	0
35	2992.00	0.70	26.95	94.00	2991.96	-6.22		6.13	-3.83	7.22549	328.04	0.16	Other	0
36	3083.00	0.79	24.66	91.00	3082.96	-7.27		7.20	-3.31	7.92097	335.29	0.10	Other	0
37	3118.00	0.88	30.24	35.00	3117.95	-7.72		7.65	-3.08	8.24229	338.09	0.35	Other	0
38	3277.00	1.01	24.75	159.00	3276.93	-10.01		9.97	-1.87	10.14897	349.36	0.10	Other	0
39	3370.00	1.10	75.35	93.00	3369.92	-10.96		10.94	-0.67	10.96494	356.51	0.97	Other	0
40	3466.00	1.10	20.75	96.00	3465.90	-12.02		12.04	0.55	12.05202	2.62	1.05	Other	0
41	3560.00	1.19	23.43	94.00	3559.88	-13.75		13.78	1.26	13.83617	5.22	0.11	Other	0
42	3655.00	1.19	30.24	95.00	3654.86	-15.48		15.54	2.15	15.68393	7.87	0.15	Other	0
43	3705.00	1.19	25.93	50.00	3704.85	-16.39		16.45	2.64	16.66154	9.10	0.18	Other	0
44	3837.00	1.49	22.33	132.00	3836.82	-19.18		19.27	3.89	19.66005	11.41	0.24	Other	0
45	3931.00	0.88	13.37	94.00	3930.80	-21.00		21.10	4.52	21.58298	12.09	0.68	Other	0
46	4026.00	0.62	341.64	95.00	4025.79	-22.19		22.30	4.53	22.75675	11.47	0.51	Other	0
47	4121.00	0.70	355.26	95.00	4120.78	-23.26		23.37	4.32	23.76353	10.46	0.18	Other	0
48	4215.00	0.48	17.85	94.00	4214.78	-24.21		24.32	4.39	24.70831	10.23	0.34	Other	0
49	4310.00	0.22	79.86	95.00	4309.78	-24.61		24.73	4.69	25.16722	10.74	0.45	Other	0
50	4406.00	0.48	109.56	96.00	4405.77	-24.50		24.62	5.25	25.17771	12.04	0.32	Other	0
51	4500.00	0.88	108.16	94.00	4499.77	-24.12		24.27	6.31	25.07369	14.57	0.43	Other	0
52	4595.00	1.19	112.86	95.00	4594.75	-23.47		23.66	7.91	24.94409	18.49	0.34	Other	0
53	4690.00	1.10	112.33	95.00	4689.73	-22.70		22.93	9.66	24.87996	22.85	0.10	Other	0
54	4785.00	0.79	105.34	95.00	4784.72	-22.15		22.41	11.14	25.02267	26.43	0.35	Other	0
55	4839.00	0.70	105.43	54.00	4838.71	-21.95		22.22	11.81	25.16665	28.00	0.17	Other	0
56	4976.00	0.62	95.63	137.00	4975.71	-21.61		21.93	13.36	25.67485	31.35	0.10	Other	0
57	5070.00	0.70	97.74	94.00	5069.70	-21.46		21.80	14.43	26.14413	33.51	0.09	Other	0
58	5169.00	0.70	107.37	99.00	5168.69	-21.17		21.54	15.61	26.599	35.94	0.12	Other	0
59	5265.00	0.62	104.95	96.00	5264.69	-20.84		21.23	16.67	26.99181	38.15	0.09	Other	0
60	5359.00	0.70	81.83	94.00	5358.68	-20.77		21.18	17.73	27.62089	39.94	0.29	Other	0
61	5453.00	0.48	85.44	94.00	5452.67	-20.86		21.29	18.69	28.33209	41.28	0.24	Other	0
62	5547.00	0.62	67.86	94.00	5546.67	-21.06		21.51	19.56	29.07374	42.27	0.23	Other	0
63	5642.00	0.70	97.65	95.00	5641.66	-21.15		21.63	20.61	29.87521	43.61	0.37	Other	0
64	5737.00	0.48	102.44	95.00	5736.66	-20.97		21.47	21.57	30.43277	45.14	0.24	Other	0
65	5831.00	0.48	83.37	94.00	5830.66	-20.91		21.43	22.35	30.96011	46.20	0.17	Other	0
66	5926.00	0.40	126.13	95.00	5925.65	-20.75		21.28	23.01	31.34034	47.24	0.35	Other	0
67	6018.00	0.22	148.37	92.00	6017.65	-20.40		20.94	23.36	31.37192	48.13	0.23	Other	0
68	6113.00	0.09	166.95	95.00	6112.65	-20.17		20.71	23.47	31.30449	48.58	0.14	Other	0
69	6207.00	0.22	233.14	94.00	6206.65	-19.99		20.53	23.35	31.08956	48.67	0.21	Other	0
70	6303.00	0.40	203.56	96.00	6302.65	-19.58		20.11	23.07	30.60265	48.91	0.25	Other	0
71	6398.00	0.22	197.85	95.00	6397.65	-19.11		19.63	22.88	30.14767	49.36	0.19	Other	0
72	6495.00	0.22	281.17	97.00	6494.65	-18.97		19.49	22.64	29.87381	49.27	0.30	Other	0
73	6589.00	0.31	230.37	94.00	6588.65	-18.85		19.37	22.26	29.50858	48.98	0.26	Other	0
74	6685.00	0.70	330.34	96.00	6684.64	-19.21		19.71	21.77	29.37019	47.85	0.85	Other	0
75	6780.00	0.09	109.03	95.00	6779.64	-19.69		20.19	21.56	29.53594	46.88	0.81	Other	0
76	6874.00	0.22	192.05	94.00	6873.64	-19.49		19.99	21.59	29.42276	47.20	0.24	Other	0
77	6968.00	0.22	179.97	95.00	6968.64	-19.13		19.63	21.55	29.15077	47.67	0.05	Other	0
78	7064.00	0.40	205.45	95.00	7063.64	-18.65		19.15	21.41	28.72223	48.19	0.23	Other	0
79	7159.00	0.48	220.04	95.00	7159.00	-18.06		18.54	21.01	28.0231	48.57	0.14	Other	0
80	7254.00	0.48	214.86	95.00	7253.63	-17.46		17.91	20.53	27.24341	48.89	0.05	Other	0
81	7349.00	0.62	189.45	95.00	7348.63	-16.61		17.08	20.22	26.46279	49.81	0.29	Other	0
82	7443.00	0.79	197.63	94.00	7442.62	-15.50		15.96	19.94	25.58667	51.32	0.21	Other	0
83	7538.00	1.19	187.74	95.00	7537.61	-13.91		14.36	19.60	24.29956	53.78	0.46	Other	0

84	7633.00	1.41	192.44	95.00	7632.58	-11.80	12.24	19.22	22.7855	57.51	0.26	Other	0
85	7728.00	1.41	189.94	95.00	7727.55	-9.51	9.95	18.77	21.23891	62.08	0.06	Other	0
86	7823.00	1.32	193.63	95.00	7822.53	-7.31	7.73	18.31	19.87215	67.10	0.13	Other	0
87	7918.00	0.79	190.07	95.00	7917.51	-5.61	6.02	17.93	18.91854	71.44	0.56	Other	0
88	8013.00	0.62	165.33	95.00	8012.50	-4.47	4.88	17.95	18.6016	74.79	0.36	Other	0
89	8108.00	0.79	126.26	95.00	8107.50	-3.57	4.00	18.61	19.03237	77.88	0.52	Other	0
90	8203.00	0.79	117.66	95.00	8202.49	-2.85	3.30	19.71	19.9892	80.49	0.12	Other	0
91	8297.00	0.88	137.95	94.00	8296.48	-1.99	2.46	20.77	20.91588	83.24	0.32	Other	0
92	8391.00	0.88	157.77	94.00	8390.47	-0.77	1.26	21.53	21.56574	86.66	0.32	Other	0
93	8485.00	1.01	162.56	94.00	8484.45	0.70	-0.20	22.05	22.04931	90.52	0.16	Other	0
94	8580.00	1.01	169.44	95.00	8579.44	2.34	-1.82	22.45	22.52379	94.64	0.13	Other	0
95	8676.00	1.01	176.67	94.00	8673.43	3.98	-3.46	22.65	22.91055	98.70	0.13	Other	0
96	8769.00	1.10	172.05	95.00	8768.41	5.72	-5.20	22.82	23.40756	102.85	0.13	Other	0
97	8864.00	1.10	193.45	95.00	8863.39	7.51	-6.99	22.74	23.7872	107.10	0.43	Other	0
98	8959.00	1.41	158.56	95.00	8958.37	9.49	-8.97	22.95	24.6411	111.34	0.85	Other	0
99	9054.00	1.41	141.16	95.00	9053.34	11.52	-10.97	24.11	26.48823	114.46	0.45	Other	0
100	9149.00	1.10	128.77	95.00	9148.32	13.03	-12.45	25.56	28.42591	115.97	0.43	Other	0
101	9231.00	1.41	122.90	82.00	9230.30	14.10	-13.49	27.01	30.19326	116.53	0.40	Other	0
102	9294.00	3.16	155.58	32.00	9292.27	15.13	-14.50	27.71	31.27248	117.63	6.61	Other	0
103	9399.00	5.96	163.08	31.00	9393.17	17.47	-16.82	28.53	33.1178	120.52	9.22	Other	0
104	9526.00	8.41	174.19	32.00	9524.92	21.40	-20.74	29.25	35.85448	125.34	8.78	Other	0
105	9595.00	11.34	177.02	32.00	9596.64	26.88	-26.21	29.65	39.57191	131.48	9.27	Other	0
106	9598.00	13.66	172.26	31.00	9598.71	33.56	-32.88	30.30	44.71202	137.34	8.19	Other	0
107	9621.00	15.66	169.12	32.00	9617.67	41.58	-40.87	31.62	51.67412	142.27	6.73	Other	0
108	9652.00	17.92	167.34	31.00	9647.34	50.38	-49.63	33.46	59.85721	146.01	7.47	Other	0
109	9658.00	19.66	170.73	32.00	9656.64	60.54	-59.75	35.41	69.45139	149.35	6.39	Other	0
110	9515.00	21.72	179.28	31.00	9506.64	71.44	-70.63	36.32	79.42353	152.79	11.79	Other	0
111	9547.00	22.34	183.14	32.00	9536.31	83.43	-82.63	36.06	90.15566	156.42	4.92	Other	0
112	9609.00	27.13	185.73	62.00	9592.60	109.22	-108.47	34.00	113.67811	162.60	7.92	Other	0
113	9656.00	29.95	186.99	47.00	9633.89	131.47	-130.79	31.50	134.5282	166.46	6.14	Other	0
114	9688.00	30.77	185.49	32.00	9661.50	147.51	-146.86	29.75	149.8462	168.55	3.47	Other	0
115	9719.00	34.56	184.02	31.00	9687.59	164.14	-163.53	28.37	165.97689	170.16	12.52	Other	0
116	9750.00	37.97	181.16	31.00	9712.59	182.43	-181.85	27.56	183.92316	171.38	12.26	Other	0
117	9782.00	42.18	179.54	32.00	9737.07	203.02	-202.44	27.45	204.29346	172.28	13.57	Other	0
118	9814.00	48.34	178.01	32.00	9759.58	225.73	-225.15	27.95	226.88244	172.92	19.55	Other	0
119	9845.00	53.77	176.96	31.00	9779.06	249.83	-249.23	29.01	250.91474	173.36	17.70	Other	0
120	9876.00	57.92	176.82	31.00	9796.46	275.96	-274.84	30.41	276.51814	173.69	13.41	Other	0
121	9908.00	61.94	177.40	32.00	9812.49	303.14	-302.49	31.80	304.16037	174.00	12.64	Other	0
122	9939.00	65.90	177.60	31.00	9826.12	330.97	-330.31	33.01	331.95047	174.29	12.80	Other	0
123	9971.00	68.95	177.02	32.00	9838.40	360.51	-359.82	34.40	361.45765	174.54	9.68	Other	0
124	10003.00	71.19	176.72	32.00	9849.31	390.58	-389.85	36.04	391.516	174.72	7.03	Other	0
125	10034.00	74.31	177.57	31.00	9858.50	420.17	-419.42	37.51	421.09268	174.89	10.42	Other	0
126	10066.00	78.22	176.01	32.00	9866.10	451.23	-450.45	39.26	452.15486	175.02	13.09	Other	0
127	10097.00	81.05	175.34	31.00	9871.67	481.68	-480.85	41.55	482.64404	175.06	9.39	Other	0
128	10129.00	83.83	175.55	32.00	9875.88	513.34	-512.47	44.07	514.96225	175.08	8.70	Other	0
129	10160.00	86.94	176.01	31.00	9878.38	544.20	-543.28	46.35	545.25566	175.12	10.13	Other	0
130	10201.00	89.04	176.49	41.00	9879.82	585.14	-584.17	49.03	586.22056	175.20	5.26	Other	0
131	10266.00	89.82	177.22	59.00	9880.56	644.10	-643.07	52.26	645.13999	175.35	1.48	Other	0
132	10355.00	89.53	177.59	95.00	9881.10	739.07	-737.97	56.56	740.13809	175.62	0.51	Other	0
133	10450.00	89.76	177.09	95.00	9881.44	834.05	-832.87	60.97	835.09911	175.81	0.53	Other	0
134	10545.00	90.48	176.82	95.00	9881.52	929.00	-927.74	66.02	930.08188	175.93	0.49	Other	0
135	10640.00	90.48	176.97	95.00	9881.01	1023.95	-1022.59	71.16	1025.06809	176.02	0.39	Other	0
136	10734.00	90.61	177.80	94.00	9880.36	1117.93	-1116.49	75.45	1119.04053	176.13	0.90	Other	0
137	10829.00	90.69	179.50	95.00	9879.53	1212.92	-1211.46	77.69	1213.94884	176.33	1.83	Other	0
138	10924.00	91.07	179.61	95.00	9878.07	1307.90	-1306.45	78.43	1308.79798	176.56	0.42	Other	0
139	11015.00	90.14	179.31	95.00	9877.07	1402.88	-1401.44	79.32	1403.67847	176.76	1.03	Other	0
140	11114.00	90.03	179.97	95.00	9876.93	1497.87	-1496.43	79.92	1498.56547	176.94	0.70	Other	0
141	11204.00	90.45	180.63	95.00	9876.53	1592.83	-1591.43	79.42	1593.41059	177.14	0.82	Other	0
142	11304.00	89.48	181.20	95.00	9876.59	1687.76	-1686.42	77.91	1688.21482	177.36	1.18	Other	0
143	11400.00	89.76	181.61	96.00	9877.25	1783.65	-1782.38	75.55	1783.98542	177.57	0.50	Other	0
144	11495.00	89.76	180.84	95.00	9877.67	1878.55	-1877.36	73.52	1878.80058	177.76	0.81	Other	0
145	11590.00	90.07	179.41	95.00	9877.81	1973.52	-1972.36	73.31	1973.7207	177.87	1.54	Other	0
146	11684.00	90.73	179.57	94.00	9877.16	2067.51	-2066.35	74.15	2067.68205	177.94	0.72	Other	0
147	11780.00	89.97	179.66	96.00	9876.57	2163.49	-2162.35	74.80	2163.64058	178.02	0.80	Other	0
148	11872.00	90.69	180.02	95.00	9875.40	2258.47	-2257.34	75.06	2258.59226	178.10	0.85	Other	0
149	11969.00	90.07	179.52	94.00	9875.40	2352.45	-2351.34	75.44	2352.5509	178.16	0.85	Other	0
150	12064.00	88.04	177.24	95.00	9876.97	2447.43	-2446.28	78.12	2447.52608	178.17	3.21	Other	0
151	12159.00	88.31	177.68	95.00	9880.07	2542.35	-2541.13	82.33	2542.46791	178.14	0.50	Other	0
152	12254.00	88.56	177.54	95.00	9882.75	2637.30	-2636.01	86.29	2637.42602	178.13	0.40	Other	0
153	12348.00	88.74	177.51	94.00	9885.54	2731.24	-2729.88	90.35	2731.37935	178.10	0.55	Other	0
154	12444.00	86.77	177.23	96.00	9889.89	2827.11	-2825.68	94.75	2827.27123	178.08	1.35	Other	0
155	12539.00	87.42	176.94	95.00	9894.70	2921.95	-2920.44	99.57	2922.13471	178.05	0.75	Other	0
156	12634.00	91.10	178.37	95.00	9895.93	3016.91	-3015.33	103.46	3017.10585	178.03	4.16	Other	0
157	12729.00	93.30	178.94	95.00	9892.28	3111.83	-3110.23	105.69	3112.07421	178.05	2.39	Other	0
158	12823.00	92.85	178.38	94.00	9892.74	3205.70	-3204.07	107.88	3205.88315	178.07	0.76	Other	0
159	12918.00	92.05	178.38	95.00	9893.17	3300.61	-3298.94	110.57	3300.79387	178.08	0.83	Other	0
160	13013.00	90.66	176.25	95.00	9890.75	3395.54	-3393.80	115.01	3395.74758	178.06	2.57	Other	0
161	13106.00	90.72	177.95	93.00	9879.47	3488.49	-3486.67	119.72	3488.7262	178.03	1.83	Other	0
162	13202.00	91.07	178.56	96.00	9877.97	3584.48	-3582.61	122.64	3584.70961	178.04	0.73	Other	0
163	13297.00	90.07	178.68	96.00	9872.77	3679.47	-3677.58	124.93	3679.68893	178.05	1.06	Other	0
164	13392.00	90.42	179.21	95.00	9876.62	3774.47	-3772.56	126.68	3774.68639	178.08	0.67	Other	0
165	13487.00	90.45	180.29	95.00	9875.81	3869.45	-3867.55	127.09	3869.64205	178.12	1.15	Other	0
166	13582.00	90.48	181.20	95.00	9874.86	3964.38	-3962.54	125.86	3964.53976	178.18	0.96	Other	0
167	13677.00	90.76	183.28	95.00	9873.93	4059.19	-4057.46	122.15	4059.29617	178.28	2.21	Other	0
168	13773.00	90.62	183.88	96.00	9872.77	4154.83	-4153.26	116.0					