

Results of Directional Survey

API number:	30-025-41202		
OGRID:		Operator:	COG OPERATING LLC
		Property:	BEN LILLY STATE COM # 1H

surface	ULSTR:	X	02	T	21S	R	33E
				330	FSL	660	FEL

7928

BH Loc	ULSTR:	A	02	T	21S	R	33E
17808	MD	10824.0	TVD	324	FNL	694	FEL
				7604	FSL		

Top Perf/OH	ULSTR:	X	02	T	21S	R	33E
10940	MD	10763.1	TVD	741	FSL	617	FEL

Bot Perf/OH	ULSTR:	A	02	T	21S	R	33E
17675	MD	10819.9	TVD	457	FNL	690	FEL
				7471	FSL		

	MD	N/S	E/W	VD
	10909	381.40	43.52	10754.41
TOP PERFS/OH	10940	411.14	42.89	10763.11
	10940	411.14	42.89	10763.11
	17665	7131.00	-29.71	10819.41
BOT PERFS/OH	17675	7141.00	-30.01	10819.91
	17742	7207.97	-32.00	10823.29

NEXT TO LAST	17742	7207.97	-32.00	10823.29
LAST READING	17786	7251.94	-33.45	10823.75
TD	17808	7273.93	-34.18	10823.98

Surface Location	330	FS	660	FE
Projected BHL	7604	FS	694	FE
Location of				
Top Perfs/OH	741	FS	617	FE
Bottom Perfs/OH	7471	FS	690	FE

SUMMARY of Subsurface Locations

Surface Location	X-02-21S-33E	330	FS	660	FE	Vert. Depth
Top Perfs/OH	X-02-21S-33E	741	FS	617	FE	10763.11
Bottom Perfs/OH	A-02-21S-33E	7471	FS	690	FE	10819.91
Projected TD	A-02-21S-33E	7604	FS	694	FE	10823.98

MAY 05 2014



A GYRO TECHNOLOGIES INC. COMPANY

P.O. Box 261021
Corpus Christi, Texas 78426
(361) 767-0602 • (800) 606-GYRO • Fax (361) 767-0612

January 23, 2014

HOBBS OCD

APR 15 2014

COG Operating LLC (Concho)
One Concho Center
600 W. Illinois Avenue
Midland, TX 79701

RECEIVED

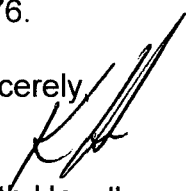
Attn: Kanicia Castillo

Re: **Ben Lilly 2 State Com No 001H**

Please find enclosed a copy of the survey from 0' to 10,200' ran on the above referenced well.

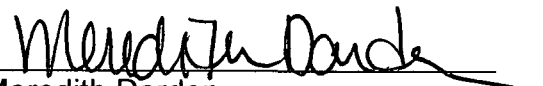
If I can be of any further service, please do not hesitate to call me at 800-606-4976.

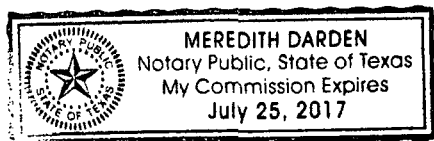
Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 23rd day of January A.D., 2014, by Keith Havelka.


Meredith Darden
Notary Public, State of Texas



Company: COG Operating-Concho
Lease/Well: Ben Lilly 2 State Com/No 001H



Rig Name: Precision 590
State/County: New Mexico/Lea
Latitude: 32.50, Longitude: -103.54
GRID North is 0.43 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB = 25 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: ...lly 2 state 1h_gyro survey.ut
Minimum Curvature Method
Report Date/Time: 1/23/2014 / 08:30

Vaughn Energy Services
Midland, Texas
432-563-5444

Surveyor: Gene Heiss
Ben Lilly 2 State Com No 001H / API 30-025-41202

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APR 15 2014

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Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.20	226.50	100.00	-0.12	-0.13	-0.12	0.17	226.50	0.20
200.00	0.48	242.67	200.00	-0.43	-0.62	-0.43	0.76	235.34	0.29
300.00	0.53	279.82	299.99	-0.54	-1.45	-0.54	1.55	249.44	0.33
400.00	0.48	263.32	399.99	-0.51	-2.33	-0.51	2.38	257.53	0.15
500.00	0.36	292.55	499.99	-0.44	-3.04	-0.44	3.07	261.70	0.24
600.00	0.21	321.05	599.99	-0.18	-3.44	-0.18	3.45	267.01	0.20
700.00	0.23	341.91	699.99	0.15	-3.62	0.15	3.62	272.40	0.08
800.00	0.22	356.51	799.99	0.53	-3.69	0.53	3.73	278.20	0.06
900.00	0.21	34.40	899.98	0.87	-3.60	0.87	3.71	283.61	0.14
1000.00	0.33	70.96	999.98	1.11	-3.23	1.11	3.41	289.06	0.20
1100.00	0.30	76.56	1099.98	1.27	-2.70	1.27	2.98	295.22	0.04
1200.00	0.76	21.61	1199.98	1.95	-2.20	1.95	2.93	311.58	0.63
1300.00	0.56	34.79	1299.97	2.97	-1.67	2.97	3.40	330.61	0.25
1400.00	0.81	350.68	1399.96	4.07	-1.51	4.07	4.34	339.69	0.57
1500.00	0.58	356.87	1499.96	5.28	-1.65	5.28	5.53	342.65	0.24
1600.00	0.99	345.99	1599.95	6.62	-1.89	6.62	6.89	344.11	0.43
1700.00	0.65	342.90	1699.94	8.00	-2.26	8.00	8.32	344.22	0.34
1800.00	0.87	335.68	1799.93	9.24	-2.74	9.24	9.64	343.47	0.23

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1900.00	0.44	337.72	1899.92	10.28	-3.20	10.28	10.77	342.72	0.43
2000.00	0.71	83.15	1999.92	10.71	-2.73	10.71	11.05	345.70	0.93
2100.00	0.39	116.02	2099.91	10.64	-1.81	10.64	10.79	350.34	0.44
2200.00	0.49	329.48	2199.91	10.86	-1.73	10.86	11.00	350.97	0.85
2300.00	0.39	312.85	2299.91	11.47	-2.20	11.47	11.67	349.15	0.16
2400.00	0.31	303.45	2399.91	11.85	-2.68	11.85	12.15	347.28	0.10
2500.00	0.28	316.89	2499.91	12.17	-3.07	12.17	12.55	345.87	0.08
2600.00	0.24	331.79	2599.91	12.54	-3.33	12.54	12.97	345.12	0.07
2700.00	0.29	347.81	2699.90	12.97	-3.48	12.97	13.43	344.97	0.09
2800.00	0.27	359.03	2799.90	13.46	-3.54	13.46	13.92	345.25	0.06
2900.00	0.25	350.90	2899.90	13.90	-3.58	13.90	14.36	345.56	0.04
3000.00	0.22	39.21	2999.90	14.26	-3.49	14.26	14.68	346.23	0.19
3100.00	0.21	96.91	3099.90	14.39	-3.20	14.39	14.74	347.47	0.20
3200.00	0.18	107.00	3199.90	14.32	-2.87	14.32	14.60	348.66	0.04
3300.00	0.19	62.44	3299.90	14.35	-2.58	14.35	14.58	349.82	0.14
3400.00	0.19	34.98	3399.90	14.56	-2.34	14.56	14.75	350.88	0.09
3500.00	0.23	93.19	3499.90	14.69	-2.04	14.69	14.83	352.09	0.21
3600.00	0.25	100.86	3599.90	14.64	-1.63	14.64	14.73	353.64	0.04
3700.00	0.19	103.24	3699.90	14.56	-1.26	14.56	14.61	355.05	0.06
3800.00	0.22	95.99	3799.90	14.50	-0.91	14.50	14.53	356.39	0.04
3900.00	0.25	53.70	3899.90	14.61	-0.55	14.61	14.62	357.84	0.17
4000.00	0.24	49.48	3999.90	14.88	-0.22	14.88	14.88	359.17	0.02
4100.00	0.21	41.86	4099.89	15.15	0.07	15.15	15.15	0.25	0.05
4200.00	0.29	38.82	4199.89	15.48	0.34	15.48	15.48	1.26	0.08
4300.00	0.35	30.29	4299.89	15.93	0.65	15.93	15.95	2.34	0.08
4400.00	0.93	9.62	4399.89	16.99	0.94	16.99	17.02	3.17	0.61
4500.00	1.70	33.01	4499.86	19.04	1.88	19.04	19.13	5.65	0.93
4600.00	1.80	23.22	4599.81	21.73	3.31	21.73	21.98	8.67	0.32
4700.00	2.07	27.31	4699.76	24.78	4.76	24.78	25.23	10.88	0.30
4800.00	2.24	37.60	4799.68	27.93	6.78	27.93	28.74	13.65	0.42
4900.00	1.79	42.85	4899.62	30.62	9.04	30.62	31.93	16.45	0.48
5000.00	1.88	36.24	4999.57	33.10	11.08	33.10	34.90	18.50	0.23
5100.00	2.30	23.80	5099.51	36.26	12.86	36.26	38.47	19.52	0.61
5200.00	2.28	34.40	5199.43	39.73	14.79	39.73	42.40	20.42	0.42
5300.00	2.73	37.32	5299.33	43.27	17.36	43.27	46.62	21.86	0.46
5400.00	3.05	29.38	5399.20	47.48	20.11	47.48	51.56	22.95	0.51
5500.00	3.18	29.09	5499.06	52.22	22.76	52.22	56.97	23.55	0.13
5600.00	3.23	34.55	5598.90	56.97	25.71	56.97	62.50	24.29	0.31
5700.00	2.49	40.04	5698.77	60.96	28.71	60.96	67.38	25.22	0.79

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5800.00	2.16	55.37	5798.69	63.69	31.65	63.69	71.12	26.43	0.70
5900.00	2.06	49.74	5898.62	65.92	34.57	65.92	74.43	27.67	0.23
6000.00	1.82	55.76	5998.57	67.97	37.25	67.97	77.50	28.72	0.31
6100.00	1.75	56.02	6098.52	69.71	39.83	69.71	80.29	29.74	0.06
6200.00	1.35	50.71	6198.48	71.32	42.01	71.32	82.77	30.50	0.42
6300.00	1.33	72.65	6298.46	72.41	44.03	72.41	84.75	31.30	0.51
6400.00	1.31	58.35	6398.43	73.36	46.11	73.36	86.65	32.15	0.33
6500.00	1.27	81.66	6498.40	74.12	48.19	74.12	88.41	33.03	0.52
6600.00	1.21	55.91	6598.38	74.87	50.16	74.87	90.12	33.82	0.56
6700.00	1.16	61.40	6698.36	75.94	51.92	75.94	92.00	34.36	0.12
6800.00	1.03	81.12	6798.34	76.57	53.70	76.57	93.52	35.04	0.40
6900.00	0.99	69.40	6898.33	77.01	55.40	77.01	94.87	35.73	0.21
7000.00	1.00	70.30	6998.31	77.61	57.03	77.61	96.31	36.31	0.02
7100.00	0.55	107.66	7098.30	77.76	58.31	77.76	97.19	36.86	0.66
7200.00	0.71	131.40	7198.30	77.20	59.23	77.20	97.31	37.49	0.30
7300.00	0.71	126.33	7298.29	76.43	60.19	76.43	97.28	38.22	0.06
7400.00	0.35	115.44	7398.29	75.93	60.96	75.93	97.38	38.76	0.37
7500.00	0.33	146.55	7498.28	75.56	61.39	75.56	97.36	39.09	0.18
7600.00	0.51	169.55	7598.28	74.88	61.63	74.88	96.99	39.46	0.25
7700.00	0.40	167.66	7698.28	74.10	61.79	74.10	96.49	39.82	0.12
7800.00	0.75	198.76	7798.27	73.15	61.65	73.15	95.66	40.13	0.46
7900.00	0.65	221.37	7898.27	72.11	61.07	72.11	94.49	40.26	0.29
8000.00	0.66	232.68	7998.26	71.34	60.24	71.34	93.37	40.18	0.13
8100.00	0.42	187.47	8098.26	70.63	59.74	70.63	92.50	40.23	0.47
8200.00	0.90	228.97	8198.25	69.75	59.10	69.75	91.42	40.27	0.65
8300.00	0.46	191.97	8298.24	68.84	58.42	68.84	90.29	40.32	0.61
8400.00	0.79	240.13	8398.24	68.11	57.74	68.11	89.29	40.29	0.59
8500.00	0.65	241.34	8498.23	67.50	56.65	67.50	88.12	40.00	0.14
8600.00	0.59	241.40	8598.22	66.98	55.70	66.98	87.11	39.75	0.06
8700.00	0.81	256.99	8698.22	66.58	54.56	66.58	86.08	39.34	0.29
8800.00	0.48	244.77	8798.21	66.24	53.50	66.24	85.14	38.93	0.35
8900.00	0.44	176.31	8898.21	65.68	53.14	65.68	84.48	38.98	0.52
9000.00	0.49	154.85	8998.20	64.91	53.35	64.91	84.02	39.42	0.18
9100.00	1.33	159.26	9098.19	63.44	53.94	63.44	83.27	40.37	0.84
9200.00	1.53	161.78	9198.16	61.09	54.77	61.09	82.04	41.88	0.22
9300.00	1.32	149.33	9298.13	58.83	55.77	58.83	81.06	43.47	0.38
9400.00	0.48	183.98	9398.12	57.42	56.33	57.42	80.44	44.45	0.96
9500.00	0.28	130.45	9498.11	56.85	56.48	56.85	80.14	44.82	0.39
9600.00	0.77	183.49	9598.11	56.02	56.63	56.02	79.65	45.31	0.64

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
9700.00	1.19	185.94	9698.09	54.31	56.48	54.31	78.36	46.12	0.42
9800.00	1.31	188.53	9798.07	52.15	56.20	52.15	76.67	47.14	0.13
9900.00	1.58	191.99	9898.04	49.67	55.74	49.67	74.66	48.30	0.29
10000.00	1.24	177.18	9998.01	47.24	55.51	47.24	72.89	49.60	0.49
10100.00	1.37	192.01	10097.98	44.98	55.32	44.98	71.30	50.88	0.36
10200.00	1.30	199.60	10197.96	42.74	54.69	42.74	69.41	51.99	0.19



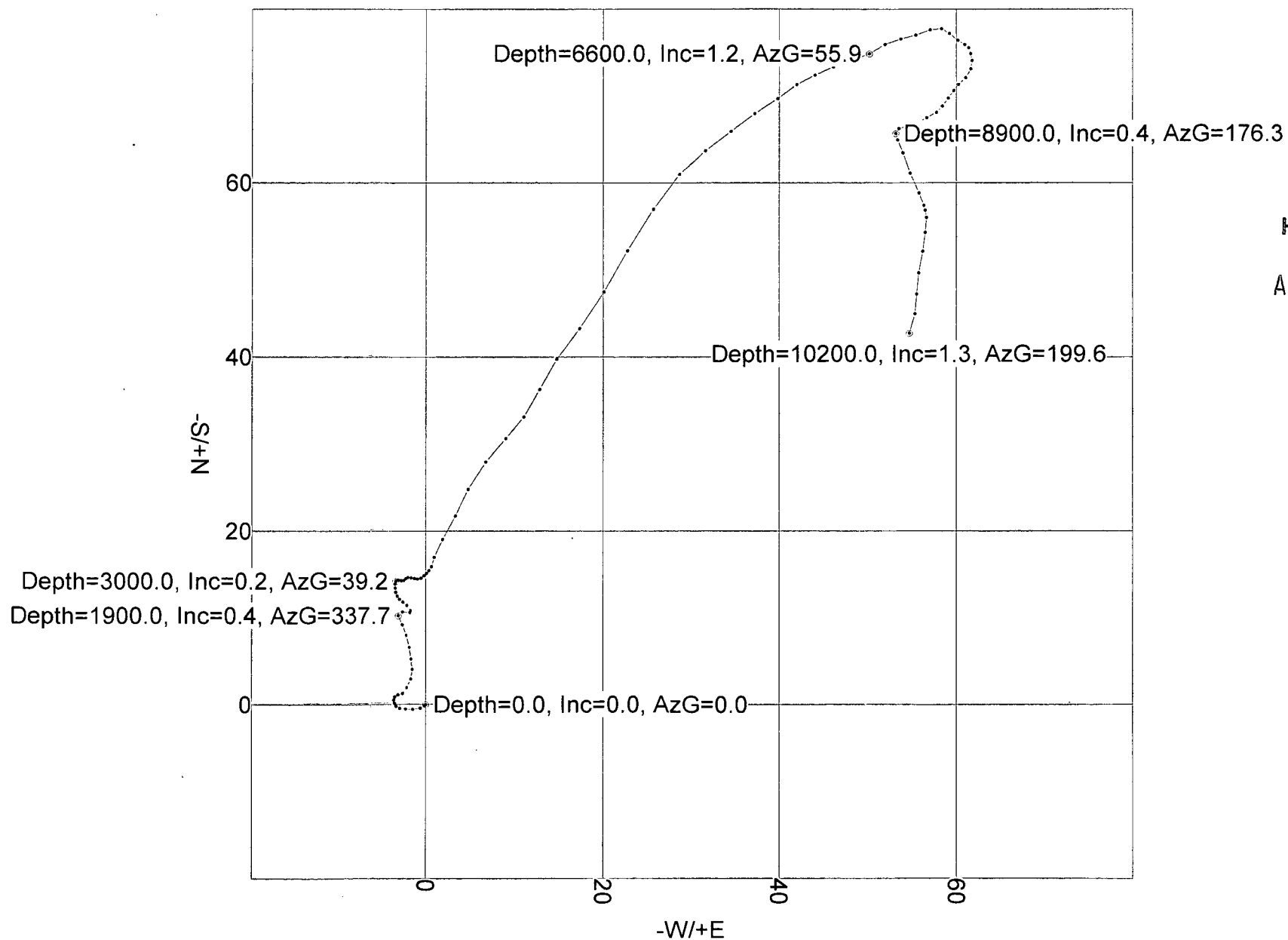
Vaughn Energy Services

Midland, Texas

432-563-5444

Surveyor: Gene Heiss

Ben Lilly 2 State Com No 001H / API 30-025-41202



VES Survey Date: 01/02/2014

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APR 15 2014

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APR 15 2014

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State of New Mexico
County of Lea

I, Michael K. Baber, certify that: I am employed by Terra Directional Services LLC; that I did on the day(s) of 1/1/14 through 1/18/14 conduct or supervise the taking of a MWD survey from a depth of 10256 feet to a depth 17786 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Terra Directional Services LLC; that I am authorized and qualified to make this report; that this survey was conducted at the request of Concho Oil & Gas for the Ben Lilly State #1H Well API 30-025-41202 in Lea County, New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Terra Directional Services LLC.

Michael K. Baber
MWD Operations Coordinator

State of Texas

County of Brewer

Before me, a notary public, on this day personally appeared Michael Baber, known to me to be the person whose name is subscribed to the foregoing document and, being by me first duly sworn, declared that the statements therein contained are true and correct.

Notary Public's Signature



8610 N New Braunfels, Suite 405

San Antonio, Texas 78217

(210) 826-2022



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APR 15 2014

Customer Name: COG Operating LLC.
Well Name: Ben Lilly 2 State 1H
AFE/P.O. Number: 30-025-41202
County / Parish: Lea County

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M.W.D. Operator: Richard Page
Directional Driller: Brett Nichols
Total Magnetic Correction: 7.28
Job #: NM-346

Vertical Section: 359.52

Tie In Survey(s) Provided By:

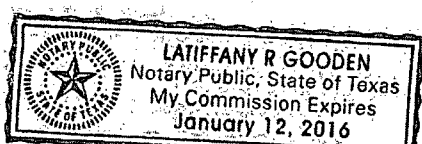
	Meas. Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N / -S	+E / -W	Dist.	Angle	DLS
Tie - In										
0	10200.00	1.30	199.60	10198.00	42.24	42.70	54.70	0.00	0.00	0.00
1	10256.00	1.40	199.60	10253.98	41.00	41.46	54.26	68.28	52.62	0.18
2	10286.00	0.40	306.10	10283.98	40.72	41.17	54.05	67.95	52.70	5.20
3	10317.00	3.20	356.40	10314.96	41.65	42.10	53.91	68.40	52.01	9.55
4	10347.00	6.30	358.80	10344.86	44.13	44.58	53.82	69.89	50.36	10.35
5	10378.00	9.30	359.50	10375.57	48.34	48.79	53.76	72.60	47.78	9.68
6	10409.00	13.00	0.60	10405.98	54.33	54.78	53.78	76.77	44.47	11.95
7	10440.00	16.90	359.90	10435.92	62.33	62.78	53.81	82.68	40.60	12.59
8	10470.00	20.60	359.90	10464.32	71.97	72.42	53.79	90.21	36.60	12.33
9	10501.00	24.50	0.20	10492.95	83.85	84.31	53.80	100.01	32.55	12.59
10	10532.00	28.20	359.90	10520.72	97.61	98.06	53.81	111.86	28.76	11.94
11	10563.00	31.50	359.20	10547.61	113.04	113.49	53.69	125.55	25.32	10.70
12	10593.00	35.40	358.50	10572.63	129.57	130.02	53.35	140.54	22.31	13.06
13	10624.00	39.10	357.80	10597.30	148.32	148.77	52.74	157.84	19.52	12.01
14	10655.00	42.40	357.40	10620.79	168.54	168.98	51.89	176.77	17.07	10.68
15	10686.00	46.10	357.10	10642.99	190.15	190.59	50.85	197.25	14.94	11.95
16	10716.00	50.00	357.40	10663.04	212.44	212.87	49.78	218.61	13.16	13.02
17	10747.00	53.70	357.40	10682.18	236.80	237.22	48.68	242.16	11.60	11.94
18	10778.00	57.90	357.40	10699.60	262.42	262.83	47.51	267.09	10.25	13.55
19	10808.00	61.90	357.80	10714.65	288.35	288.75	46.43	292.46	9.13	13.38
20	10839.00	64.60	357.80	10728.60	316.02	316.41	45.37	319.65	8.16	8.71
21	10879.00	68.80	358.50	10744.42	352.74	353.12	44.18	355.87	7.13	10.62
22	10909.00	72.30	358.80	10754.41	381.02	381.40	43.52	383.87	6.51	11.70
23	10940.00	75.10	358.80	10763.11	410.77	411.14	42.89	413.37	5.96	9.03
24	10971.00	78.10	358.80	10770.29	440.92	441.29	42.26	443.31	5.47	9.68
25	11002.00	80.10	359.20	10776.15	471.36	471.72	41.73	473.56	5.06	6.57
26	11032.00	81.10	359.50	10781.05	500.95	501.32	41.40	503.02	4.72	3.48
27	11063.00	82.50	359.20	10785.47	531.63	532.00	41.05	533.58	4.41	4.62
28	11094.00	84.50	359.90	10788.98	562.43	562.80	40.81	564.27	4.15	6.83
29	11124.00	86.70	359.50	10791.28	592.34	592.70	40.65	594.10	3.92	7.45
30	11155.00	87.10	359.90	10792.96	623.30	623.66	40.49	624.97	3.71	1.82
31	11186.00	89.00	359.90	10794.01	654.28	654.64	40.43	655.89	3.53	6.13
32	11216.00	90.10	0.20	10794.25	684.27	684.64	40.46	685.83	3.38	3.80
33	11309.00	88.00	359.20	10795.79	777.25	777.62	39.97	778.64	2.94	2.50
34	11401.00	89.00	359.20	10798.20	869.22	869.58	38.69	870.44	2.55	1.09
35	11493.00	89.20	358.50	10799.64	961.20	961.54	36.84	962.25	2.19	0.79
36	11585.00	89.20	358.10	10800.93	1053.17	1053.50	34.11	1054.05	1.85	0.43
37	11677.00	90.40	359.20	10801.25	1145.16	1145.47	31.95	1145.91	1.60	1.77
38	11769.00	90.10	359.90	10800.85	1237.16	1237.46	31.22	1237.86	1.45	0.83
39	11861.00	89.20	359.50	10801.41	1329.15	1329.46	30.74	1329.81	1.32	1.07
40	11953.00	89.60	0.60	10802.37	1421.14	1421.45	30.82	1421.79	1.24	1.27
41	12046.00	90.30	0.20	10802.45	1514.13	1514.45	31.47	1514.77	1.19	0.87
42	12138.00	89.90	0.60	10802.29	1606.12	1606.45	32.11	1606.77	1.15	0.61
43	12230.00	89.00	0.20	10803.18	1698.10	1698.44	32.76	1698.75	1.10	1.07
44	12322.00	90.10	0.60	10803.90	1790.09	1790.43	33.40	1790.74	1.07	1.27



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45	12414.00	90.80	359.90	10803.18	1882.08	1882.43	33.80	1882.73	1.03	1.08
46	12506.00	90.40	0.60	10802.21	1974.06	1974.42	34.20	1974.72	0.99	0.88
47	12599.00	89.70	0.60	10802.13	2067.05	2067.41	35.18	2067.71	0.97	0.75
48	12691.00	90.60	359.50	10801.89	2159.04	2159.41	35.26	2159.70	0.94	1.54
49	12783.00	89.90	359.50	10801.49	2251.04	2251.41	34.45	2251.67	0.88	0.76
50	12875.00	90.30	359.20	10801.33	2343.04	2343.40	33.41	2343.64	0.82	0.54
51	12967.00	90.60	359.20	10800.61	2435.03	2435.39	32.13	2435.60	0.76	0.33
52	13059.00	91.00	358.50	10799.32	2527.02	2527.36	30.28	2527.54	0.69	0.88
53	13152.00	89.90	358.80	10798.59	2620.00	2620.33	28.09	2620.48	0.61	1.23
54	13244.00	88.30	358.50	10800.04	2711.98	2712.29	25.92	2712.41	0.55	1.77
55	13336.00	88.30	357.80	10802.77	2803.91	2804.20	22.95	2804.29	0.47	0.76
56	13428.00	88.30	358.50	10805.50	2895.84	2896.11	19.98	2896.18	0.40	0.76
57	13520.00	88.00	357.80	10808.47	2987.77	2988.01	17.02	2988.06	0.33	0.83
58	13612.00	89.20	358.50	10810.71	3079.71	3079.94	14.05	3079.97	0.26	1.51
59	13705.00	89.40	358.50	10811.85	3172.69	3172.90	11.61	3172.92	0.21	0.22
60	13797.00	90.60	358.80	10811.85	3264.68	3264.87	9.44	3264.88	0.17	1.34
61	13889.00	90.30	358.50	10811.13	3356.66	3356.84	7.28	3356.85	0.12	0.46
62	13981.00	89.90	357.80	10810.97	3448.64	3448.79	4.31	3448.80	0.07	0.88
63	14075.00	89.60	357.10	10811.38	3542.57	3542.70	0.13	3542.70	0.00	0.81
64	14167.00	89.40	357.80	10812.18	3634.51	3634.60	-3.97	3634.61	359.94	0.79
65	14259.00	90.30	357.80	10812.42	3726.47	3726.53	-7.50	3726.54	359.88	0.98
66	14351.00	89.90	357.10	10812.26	3818.41	3818.44	-11.59	3818.46	359.83	0.88
67	14443.00	90.40	357.80	10812.02	3910.34	3910.35	-15.69	3910.38	359.77	0.94
68	14536.00	90.10	358.80	10811.61	4003.32	4003.31	-18.44	4003.35	359.74	1.12
69	14628.00	91.00	359.50	10810.73	4095.31	4095.29	-19.81	4095.34	359.72	1.24
70	14720.00	90.80	358.10	10809.29	4187.29	4187.26	-21.74	4187.31	359.70	1.54
71	14812.00	91.00	359.20	10807.84	4279.27	4279.22	-23.90	4279.29	359.68	1.22
72	14904.00	90.40	0.20	10806.72	4371.26	4371.21	-24.38	4371.28	359.68	1.27
73	14995.00	90.60	358.80	10805.92	4462.25	4462.20	-25.18	4462.27	359.68	1.55
74	15087.00	90.80	359.20	10804.80	4554.24	4554.18	-26.78	4554.26	359.66	0.49
75	15179.00	89.20	358.10	10804.80	4646.23	4646.15	-28.95	4646.24	359.64	2.11
76	15271.00	88.70	358.50	10806.48	4738.19	4738.09	-31.68	4738.20	359.62	0.70
77	15363.00	88.90	357.40	10808.41	4830.14	4830.01	-34.97	4830.14	359.59	1.21
78	15455.00	89.20	357.10	10809.94	4922.05	4921.89	-39.38	4922.05	359.54	0.46
79	15547.00	89.40	358.50	10811.06	5014.00	5013.82	-42.92	5014.00	359.51	1.54
80	15639.00	89.20	0.20	10812.18	5105.99	5105.80	-43.96	5105.99	359.51	1.86
81	15731.00	89.60	2.00	10813.15	5197.95	5197.77	-42.19	5197.95	359.53	2.00
82	15823.00	90.30	1.70	10813.23	5289.87	5289.73	-39.22	5289.87	359.58	0.83
83	15915.00	90.30	1.30	10812.75	5381.81	5381.69	-36.81	5381.82	359.61	0.43
84	16008.00	90.40	1.00	10812.18	5474.77	5474.67	-34.95	5474.78	359.63	0.34
85	16100.00	91.00	1.00	10811.05	5566.73	5566.65	-33.34	5566.75	359.66	0.65
86	16192.00	90.10	1.70	10810.17	5658.68	5658.62	-31.18	5658.71	359.68	1.24
87	16284.00	90.30	1.70	10809.85	5750.61	5750.58	-28.45	5750.65	359.72	0.22
88	16376.00	90.60	1.30	10809.13	5842.56	5842.54	-26.04	5842.60	359.74	0.54
89	16468.00	89.40	1.70	10809.13	5934.50	5934.51	-23.63	5934.56	359.77	1.37
90	16560.00	89.60	1.70	10809.93	6026.43	6026.47	-20.90	6026.50	359.80	0.22
91	16652.00	89.90	2.00	10810.33	6118.35	6118.42	-17.93	6118.44	359.83	0.46
92	16744.00	89.60	0.20	10810.73	6210.31	6210.40	-16.16	6210.42	359.85	1.98
93	16836.00	89.70	0.60	10811.30	6302.30	6302.39	-15.52	6302.41	359.86	0.45
94	16929.00	89.90	1.00	10811.62	6395.28	6395.38	-14.22	6395.40	359.87	0.48
95	17021.00	89.70	359.50	10811.94	6487.27	6487.38	-13.82	6487.39	359.88	1.64
96	17113.00	89.90	359.50	10812.26	6579.26	6579.37	-14.63	6579.39	359.87	0.22
97	17205.00	90.10	359.20	10812.26	6671.26	6671.37	-15.67	6671.39	359.87	0.39
98	17297.00	88.50	358.10	10813.39	6763.24	6763.33	-17.84	6763.35	359.85	2.11
99	17389.00	88.00	358.10	10816.20	6855.17	6855.24	-20.88	6855.27	359.83	0.54
100	17481.00	88.00	358.10	10819.41	6947.09	6947.13	-23.93	6947.17	359.80	0.00
101	17573.00	89.20	358.10	10821.65	7039.03	7039.05	-26.98	7039.10	359.78	1.30
102	17665.00	89.60	358.50	10822.62	7131.00	7131.00	-29.71	7131.07	359.76	0.61



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103	17742.00	89.40	358.10	10823.29	7207.98	7207.97	-32.00	7208.04	359.75	0.58
PTB	17786.00	89.40	358.10	10823.75	7251.97	7251.94	-33.45	7252.02	359.74	0.00



A handwritten signature in black ink, appearing to be "L. Gooden".

A handwritten signature in black ink, appearing to be "M. Smith".