

Results of Directional Survey

API number:	30-025-41152		
OGRID:		Operator:	COG OPERATING LLC
		Property:	AIRSTRIPE FEE COM # 1H

surface	ULSTR:	P	07	T 19S	R 35E
				190 FSL	460 FEL

BH Loc	ULSTR:	I	06	T 19S	R 35E
17759	MD	10586.3	TVD	2184 FSL	585 FEL
				7464 FSL	

Top Perf/OH	ULSTR:	P	07	T 19S	R 35E
10991	MD	10751.1	TVD	703 FSL	503 FEL

Bot Perf/OH	ULSTR:	I	06	T 19S	R 35E
17565	MD	10597.2	TVD	1990 FSL	580 FEL
				7270 FSL	

	MD	N/S	E/W	VD
	10961	483.58	-43.61	10743.5
TOP PERFS/OH	10991	512.60	-43.41	10751.12
	10991	512.60	-43.41	10751.12
	17503	7018.25	-118.68	10600.31
BOT PERFS/OH	17565	7080.15	-120.08	10597.23
	17597	7112.10	-120.81	10595.64

NEXT TO LAST	17713	7227.92	-123.84	10589.87
LAST READING	17759	7273.76	-125.36	10586.34
TD	17759	7273.76	-125.36	10586.34

Surface Location	190	FS	460	FE
Projected BHL	7464	FS	585	FE
Location of				
Top Perfs/OH	703	FS	503	FE
Bottom Perfs/OH	7270	FS	580	FE

SUMMARY of Subsurface Locations

Surface Location	P-07-19S-35E	190	FS	460	FE	Vert. Depth
Top Perfs/OH	P-07-19S-35E	703	FS	503	FE	10751.12
Bottom Perfs/OH	I-06-19S-35E	7270	FS	580	FE	10597.23
Projected TD	I-06-19S-35E	7464	FS	585	FE	10586.34

SEP 17 2014

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SEP 08 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 6/24/14 through 7/10/14 conduct or supervise the taking of a MWD survey from a depth of 9958 feet to a depth 17759 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 Airstrip Fee Com #1H Well API 30-025-41152 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.

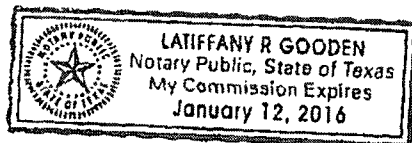
A handwritten signature in black ink, appearing to read "Michael K. Baber", written over a horizontal line.

Michael K. Baber
MWD Operations Manager

State of Texas

County of Montgomery

Before me, a notary public, on this day personally appeared Michael K. 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.

A handwritten signature in black ink, written over a horizontal line.
Notary Public's Signature



Customer Name: COG Operating LLC
Well Name: Airstrip Fee Corn 1H
API Number: 30-025-41152
County / Parish: Lea County

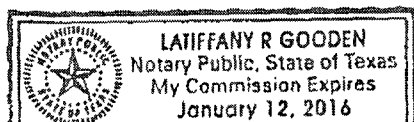
M.W.D. Operator: Rusty Whitfield
Directional Driller: Corey Owens
Total Magnetic Correction: 6.76
Job #: NM-446

Vertical Section: 359.06

Tie In Survey(s) Provided By:

VES - GYRO

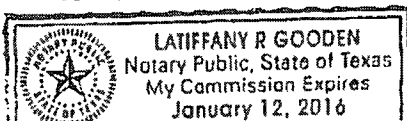
	Meas. Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N / -S	+E / -W	Dist.	Angle	DLS
Tie - In										
0	9910.00	1.56	254.94	9909.40	20.54	20.50	-2.50	0.00	0.00	0.00
1	9958.00	1.40	268.30	9957.38	20.37	20.31	-3.72	20.65	349.63	0.79
2	10052.00	1.50	282.00	10051.35	20.63	20.53	-6.07	21.41	343.54	0.38
3	10146.00	1.20	272.90	10145.33	20.97	20.84	-8.25	22.42	338.39	0.39
4	10177.00	1.30	279.60	10176.32	21.06	20.92	-8.93	22.74	336.89	0.57
5	10208.00	2.90	328.10	10207.30	21.80	21.64	-9.69	23.71	335.88	7.29
6	10240.00	6.80	342.50	10239.18	24.31	24.13	-10.68	26.39	336.12	12.67
7	10272.00	11.80	344.40	10270.75	29.29	29.10	-12.14	31.53	337.36	15.65
8	10303.00	16.50	343.40	10300.80	36.60	36.37	-14.25	39.06	338.61	15.18
9	10334.00	20.80	342.20	10330.17	46.11	45.84	-17.19	48.95	339.44	13.93
10	10365.00	23.30	343.20	10358.90	57.28	56.95	-20.64	60.57	340.07	8.15
11	10397.00	25.90	343.20	10387.99	70.09	69.70	-24.49	73.88	340.64	8.13
12	10427.00	28.10	343.90	10414.72	83.21	82.76	-28.35	87.48	341.09	7.41
13	10459.00	31.20	344.40	10442.53	98.51	97.99	-32.67	103.29	341.56	9.72
14	10490.00	34.40	345.00	10468.58	114.78	114.18	-37.09	120.06	342.00	10.38
15	10521.00	37.10	347.20	10493.74	132.43	131.76	-41.43	138.13	342.54	9.65
16	10553.00	39.20	350.60	10518.90	151.88	151.16	-45.22	157.78	343.34	9.28
17	10584.00	40.90	353.80	10542.64	171.68	170.92	-47.92	177.51	344.34	8.61
18	10616.00	43.20	356.20	10566.40	193.05	192.26	-49.78	198.60	345.48	8.77
19	10647.00	46.30	358.70	10588.41	214.86	214.06	-50.74	219.99	346.67	11.50
20	10678.00	49.30	0.40	10609.23	237.82	237.52	-50.91	242.43	347.88	10.49
21	10710.00	52.00	1.00	10629.52	262.56	261.76	-50.60	266.61	349.06	8.56
22	10741.00	54.70	0.80	10648.02	287.41	286.63	-50.21	290.99	350.06	8.73
23	10773.00	57.50	0.40	10665.87	313.96	313.18	-49.94	317.14	350.94	8.81
24	10804.00	60.50	1.10	10681.84	340.52	339.75	-49.59	343.35	351.70	9.87
25	10836.00	62.90	2.40	10697.01	368.66	367.91	-48.72	371.12	352.46	8.31
26	10867.00	65.10	3.10	10710.59	396.46	395.74	-47.38	398.56	353.17	7.38
27	10898.00	67.50	2.90	10723.05	424.78	424.08	-45.90	426.56	353.82	7.76
28	10930.00	71.20	2.40	10734.34	454.66	453.99	-44.52	456.17	354.40	11.65
29	10961.00	74.40	1.10	10743.50	484.23	483.58	-43.61	485.55	354.85	11.07
30	10991.00	76.20	359.70	10751.12	513.24	512.60	-43.41	514.43	355.16	7.51
31	11022.00	78.70	358.20	10757.85	543.50	542.85	-43.97	544.63	355.37	9.35
32	11054.00	81.50	357.70	10763.35	575.01	574.35	-45.10	576.12	355.51	8.88
33	11085.00	84.80	357.40	10767.05	605.78	605.10	-46.41	606.87	355.61	10.69
34	11116.00	88.00	357.30	10769.00	636.70	636.00	-47.84	637.79	355.70	10.33
35	11211.00	90.80	356.90	10769.99	731.63	730.86	-52.65	732.76	355.88	2.98
36	11305.00	93.60	356.90	10766.38	825.48	824.65	-57.73	826.66	356.00	2.98
37	11398.00	93.50	358.50	10760.62	918.27	917.39	-61.45	919.45	356.17	1.72
38	11492.00	90.80	0.30	10757.10	1012.19	1011.31	-62.44	1013.23	356.47	3.45
39	11586.00	92.90	359.90	10754.06	1106.12	1105.25	-62.27	1107.00	356.78	2.27
40	11681.00	90.70	0.90	10751.08	1201.04	1200.19	-61.61	1201.77	357.06	2.54
41	11775.00	90.00	1.70	10750.51	1294.97	1294.17	-59.48	1295.53	357.37	1.13
42	11868.00	92.00	1.80	10748.88	1387.85	1387.10	-56.64	1388.26	357.66	2.15
43	11962.00	90.20	1.20	10747.08	1481.74	1481.05	-54.18	1482.04	357.91	2.02



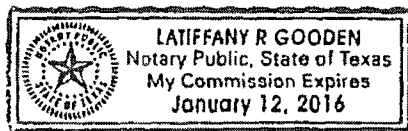
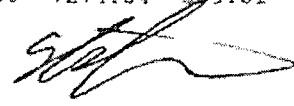
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44	12056.00	91.50	1.30	10745.68	1575.66	1575.02	-52.13	1575.88	358.10	1.39
45	12150.00	90.10	359.80	10744.37	1669.61	1669.00	-51.22	1669.78	358.24	2.18
46	12243.00	91.30	359.60	10743.23	1762.60	1761.99	-51.71	1762.75	358.32	1.31
47	12337.00	89.70	0.20	10742.41	1856.58	1855.98	-51.88	1856.71	358.40	1.82
48	12431.00	91.60	359.60	10741.35	1950.56	1949.97	-52.04	1950.66	358.47	2.12
49	12526.00	91.20	0.20	10739.03	2045.52	2044.94	-52.20	2045.61	358.54	0.76
50	12619.00	89.10	1.30	10738.78	2138.47	2137.93	-50.99	2138.53	358.63	2.55
51	12713.00	91.30	0.60	10738.46	2232.42	2231.91	-49.43	2232.45	358.73	2.46
52	12807.00	88.30	1.10	10738.78	2326.36	2325.88	-48.03	2326.38	358.82	3.24
53	12901.00	89.60	0.70	10740.51	2420.29	2419.85	-46.56	2420.30	358.90	1.45
54	12995.00	89.30	0.10	10741.41	2514.26	2513.85	-45.90	2514.27	358.95	0.71
55	13089.00	91.40	359.60	10740.83	2608.25	2607.84	-46.15	2608.25	358.99	2.30
56	13183.00	90.00	358.90	10739.69	2702.24	2701.82	-47.38	2702.24	359.00	1.67
57	13277.00	92.40	358.30	10737.72	2796.20	2795.77	-49.67	2796.21	358.98	2.63
58	13371.00	91.10	358.70	10734.85	2890.15	2889.69	-52.13	2890.16	358.97	1.45
59	13464.00	93.70	358.40	10730.95	2983.06	2982.57	-54.48	2983.07	358.95	2.81
60	13558.00	92.20	359.20	10726.11	3076.93	3076.42	-56.45	3076.94	358.95	1.81
61	13652.00	91.10	359.30	10723.41	3170.89	3170.37	-57.68	3170.90	358.96	1.18
62	13746.00	93.20	359.30	10719.88	3264.82	3264.29	-58.83	3264.82	358.97	2.23
63	13840.00	91.20	358.30	10716.27	3358.74	3358.20	-60.80	3358.75	358.96	2.38
64	13934.00	93.10	358.00	10712.75	3452.66	3452.08	-63.83	3452.67	358.94	2.05
65	14027.00	90.70	358.60	10709.66	3545.59	3544.98	-66.58	3545.60	358.92	2.66
66	14121.00	92.30	358.40	10707.20	3639.55	3638.91	-69.04	3639.57	358.91	1.72
67	14215.00	91.30	358.90	10704.25	3733.50	3732.84	-71.26	3733.52	358.91	1.19
68	14310.00	89.90	359.10	10703.26	3828.50	3827.81	-72.91	3828.51	358.91	1.49
69	14404.00	92.70	358.50	10701.12	3922.46	3921.76	-74.88	3922.47	358.91	3.05
70	14497.00	92.20	358.10	10697.15	4015.37	4014.63	-77.64	4015.38	358.89	0.69
71	14591.00	90.20	358.30	10695.18	4109.33	4108.56	-80.59	4109.35	358.88	2.14
72	14685.00	93.20	358.00	10692.39	4203.27	4202.46	-83.62	4203.29	358.86	3.21
73	14779.00	91.60	358.40	10688.46	4297.17	4296.33	-86.57	4297.20	358.85	1.75
74	14873.00	90.20	358.70	10686.98	4391.15	4390.28	-88.95	4391.19	358.84	1.52
75	14967.00	93.00	358.20	10684.35	4485.10	4484.20	-91.49	4485.14	358.83	3.03
76	15061.00	91.40	359.60	10680.75	4579.03	4578.11	-93.30	4579.06	358.83	2.26
77	15156.00	90.70	359.90	10679.00	4674.00	4673.09	-93.71	4674.03	358.85	0.80
78	15250.00	90.70	359.00	10677.86	4767.99	4767.08	-94.61	4768.02	358.86	0.96
79	15344.00	93.50	357.90	10674.41	4861.91	4860.97	-97.15	4861.94	358.86	3.20
80	15438.00	91.70	359.60	10670.15	4955.81	4954.85	-99.20	4955.84	358.85	2.63
81	15532.00	90.50	0.50	10668.34	5049.77	5048.83	-99.12	5049.80	358.88	1.60
82	15625.00	92.90	359.70	10665.58	5142.71	5141.78	-98.95	5142.73	358.90	2.72
83	15719.00	90.70	0.20	10662.63	5236.65	5235.73	-99.04	5236.66	358.92	2.40
84	15814.00	92.80	359.50	10659.73	5331.59	5330.68	-99.28	5331.60	358.93	2.33
85	15907.00	90.90	0.20	10656.73	5424.52	5423.62	-99.53	5424.53	358.95	2.18
86	16001.00	93.20	359.50	10653.37	5518.45	5517.55	-99.77	5518.46	358.96	2.56
87	16095.00	92.20	0.30	10648.94	5612.33	5611.45	-99.94	5612.34	358.98	1.36
88	16189.00	90.70	0.40	10646.56	5706.28	5705.41	-99.36	5706.28	359.00	1.60
89	16283.00	93.10	0.10	10643.44	5800.20	5799.35	-98.95	5800.20	359.02	2.57
90	16376.00	91.50	359.60	10639.71	5893.11	5892.27	-99.20	5893.11	359.04	1.80
91	16470.00	92.20	359.60	10636.68	5987.06	5986.22	-99.85	5987.06	359.04	0.74
92	16564.00	91.50	360.00	10633.64	6081.00	6080.17	-100.18	6081.00	359.06	0.86
93	16658.00	91.30	359.50	10631.35	6174.96	6174.14	-100.59	6174.96	359.07	0.57
94	16752.00	93.70	358.80	10627.25	6268.87	6268.04	-101.98	6268.87	359.07	2.66
95	16846.00	91.90	359.20	10622.65	6362.75	6361.91	-103.62	6362.75	359.07	1.96
96	16939.00	90.20	359.60	10620.95	6455.73	6454.88	-104.59	6455.73	359.07	1.88
97	17034.00	92.50	358.90	10618.71	6550.69	6549.84	-105.84	6550.69	359.07	2.53
98	17127.00	91.80	358.20	10615.22	6643.62	6642.74	-108.19	6643.62	359.07	1.06
99	17222.00	90.50	358.80	10613.32	6738.60	6737.69	-110.67	6738.60	359.06	1.51
100	17315.00	93.00	358.40	10610.48	6831.54	6830.61	-112.95	6831.54	359.05	2.72
101	17409.00	93.00	357.90	10605.56	6925.40	6924.43	-115.98	6925.40	359.04	0.53



102	17503.00	93.40	358.80	10600.31	7019.25	7018.25	-118.68	7019.25	359.03	1.05
103	17597.00	92.30	358.60	10595.64	7113.13	7112.10	-120.81	7113.13	359.03	1.19
104	17691.00	93.00	358.50	10591.29	7207.02	7205.97	-123.18	7207.03	359.02	0.75
105	17713.00	94.40	358.10	10589.87	7228.98	7227.92	-123.84	7228.98	359.02	6.62
PTB	17759.00	94.40	358.10	10586.34	7274.83	7273.76	-125.36	7274.84	359.01	0.00





July 7, 2014

Concho Resources, Inc.
One Concho Center
600 W. Illinois Avenue
Midland, Texas 79701

HOBBS OCD

AUG 29 2014

RECEIVED

Attn: Kanicia Castillo

RE: **Airstrip Fee Com 1H**

Please find enclosed a copy of the survey from 0.00' to 9910.00' ran on the above referenced well.

Sincerely,

Keith Havelka
Operations

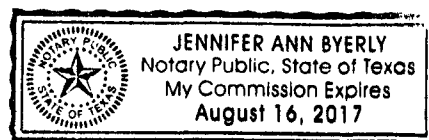
STATE OF TEXAS §

§

COUNTY OF NUECES §

This instrument was acknowledged before me on the 7 day of July,
A.D., 2014, by Keith Havelka.


Jennifer Ann Byerly
Notary Public, State of Texas





Company: Concho
Lease/Well: Airstrip Fee Com /1H

Location: Sec 7 T19S R35E

Rig Name: Precision 105

State/County: New Mexico/Lea

Latitude: 32.67, Longitude: -103.48

GRID North is 0.46 Degrees East of True North

VS-Azi: 0.00 Degrees



Depth Reference : RKB = 26 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: ...rip fee com #1h gyro-de_01.ut

Minimum Curvature Method

Report Date/Time: 7/7/2014 / 08:38

VES Survey International

West Texas

432-563-5444

Chris Bankson

Airstrip Fee Com 1H / API 30-025-41152

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	0.18	52.93	100.00	0.09	0.13	0.09	0.16	52.93	0.18
200.00	0.19	73.75	200.00	0.24	0.41	0.24	0.47	60.13	0.07
300.00	0.09	79.10	300.00	0.30	0.65	0.30	0.71	65.28	0.11
400.00	0.31	101.10	400.00	0.26	0.98	0.26	1.02	75.20	0.23
500.00	0.67	113.59	499.99	-0.03	1.79	-0.03	1.79	90.85	0.38
600.00	0.67	143.18	599.99	-0.73	2.67	-0.73	2.77	105.23	0.34
700.00	0.18	147.35	699.98	-1.33	3.11	-1.33	3.38	113.14	0.48
800.00	0.23	145.82	799.98	-1.63	3.30	-1.63	3.68	116.19	0.04
900.00	0.20	148.29	899.98	-1.93	3.50	-1.93	4.00	118.88	0.03
1000.00	0.51	137.84	999.98	-2.41	3.89	-2.41	4.58	121.76	0.32
1100.00	0.36	124.77	1099.98	-2.92	4.46	-2.92	5.33	123.27	0.18
1200.00	0.16	125.86	1199.98	-3.19	4.83	-3.19	5.79	123.42	0.20
1300.00	0.49	130.07	1299.98	-3.55	5.28	-3.55	6.36	123.92	0.33
1400.00	0.37	145.03	1399.97	-4.09	5.79	-4.09	7.09	125.22	0.16
1500.00	0.30	140.65	1499.97	-4.55	6.14	-4.55	7.64	126.57	0.07
1600.00	0.09	156.91	1599.97	-4.83	6.34	-4.83	7.97	127.31	0.22
1700.00	0.04	141.46	1699.97	-4.93	6.39	-4.93	8.07	127.65	0.05
1800.00	0.31	157.16	1799.97	-5.20	6.52	-5.20	8.34	128.62	0.27

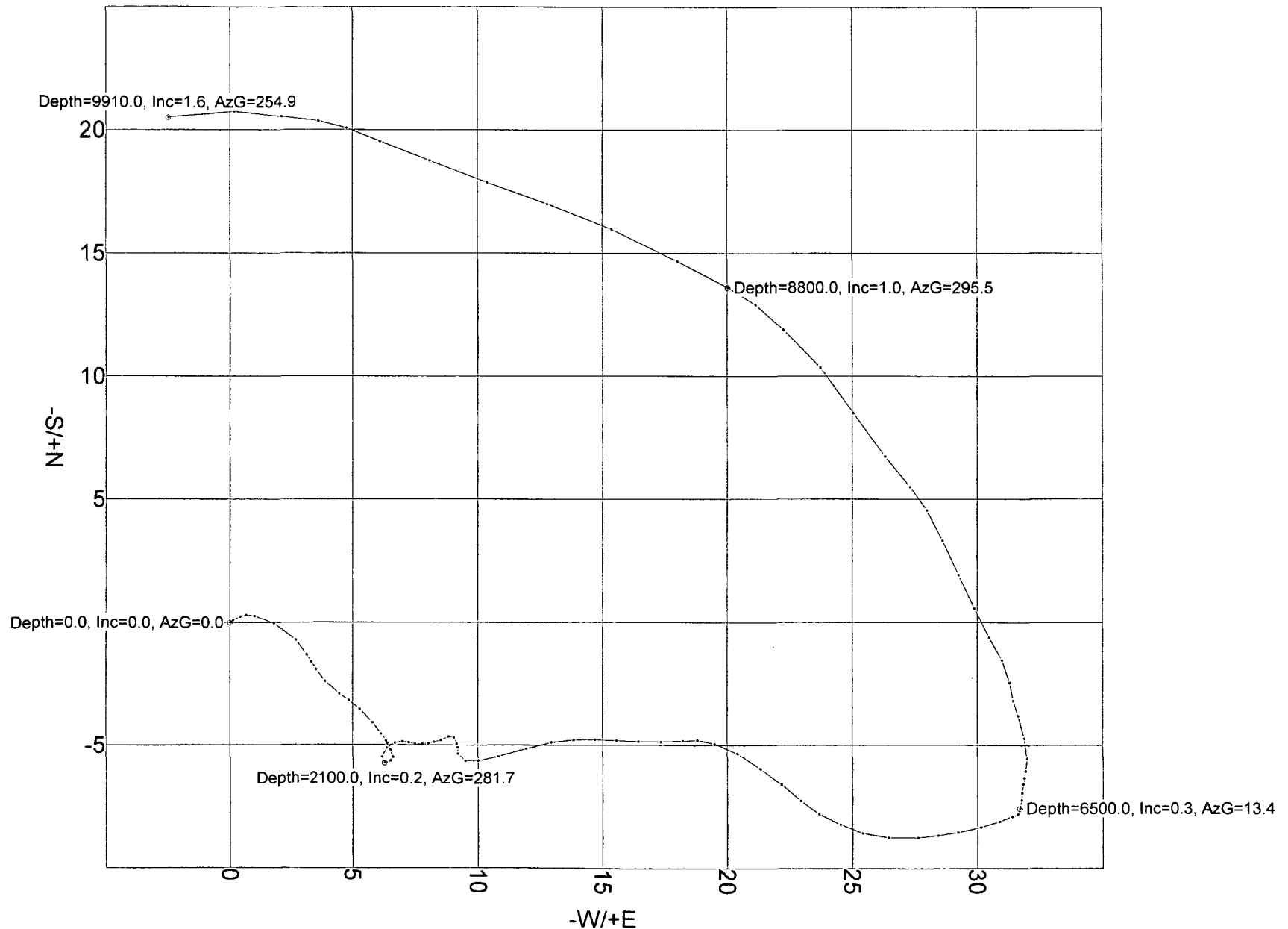
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1900.00	0.05	197.04	1899.97	-5.50	6.61	-5.50	8.59	129.75	0.27
2000.00	0.16	220.07	1999.97	-5.65	6.50	-5.65	8.61	130.98	0.12
2100.00	0.16	281.70	2099.97	-5.73	6.27	-5.73	8.50	132.40	0.17
2200.00	0.24	8.89	2199.97	-5.49	6.17	-5.49	8.26	131.67	0.28
2300.00	0.26	46.00	2299.97	-5.13	6.37	-5.13	8.18	128.87	0.16
2400.00	0.20	69.92	2399.97	-4.91	6.69	-4.91	8.30	126.29	0.11
2500.00	0.15	92.94	2499.97	-4.86	6.99	-4.86	8.51	124.81	0.09
2600.00	0.14	106.80	2599.97	-4.90	7.24	-4.90	8.74	124.11	0.04
2700.00	0.17	98.87	2699.97	-4.96	7.50	-4.96	8.99	123.48	0.03
2800.00	0.16	81.80	2799.97	-4.96	7.78	-4.96	9.23	122.54	0.05
2900.00	0.12	81.74	2899.97	-4.93	8.02	-4.93	9.42	121.57	0.03
3000.00	0.13	72.64	2999.96	-4.88	8.24	-4.88	9.58	120.62	0.02
3100.00	0.20	74.86	3099.96	-4.80	8.52	-4.80	9.78	119.39	0.07
3200.00	0.20	57.44	3199.96	-4.66	8.84	-4.66	9.99	117.81	0.06
3300.00	0.17	151.06	3299.96	-4.69	9.05	-4.69	10.20	117.40	0.27
3400.00	0.15	164.50	3399.96	-4.95	9.16	-4.95	10.41	118.38	0.04
3500.00	0.02	168.50	3499.96	-5.10	9.20	-5.10	10.52	119.00	0.13
3600.00	0.27	176.84	3599.96	-5.36	9.21	-5.36	10.66	120.18	0.25
3700.00	0.31	98.46	3699.96	-5.64	9.50	-5.64	11.04	120.70	0.37
3800.00	0.27	80.77	3799.96	-5.64	10.00	-5.64	11.48	119.43	0.10
3900.00	0.69	76.52	3899.96	-5.46	10.82	-5.46	12.12	116.79	0.42
4000.00	0.64	72.09	3999.95	-5.15	11.93	-5.15	12.99	113.34	0.07
4100.00	0.55	80.33	4099.94	-4.90	12.93	-4.90	13.83	110.74	0.13
4200.00	0.50	86.52	4199.94	-4.79	13.84	-4.79	14.64	109.10	0.07
4300.00	0.48	92.29	4299.94	-4.78	14.69	-4.78	15.45	108.02	0.05
4400.00	0.51	92.79	4399.93	-4.82	15.56	-4.82	16.29	107.21	0.03
4500.00	0.50	91.77	4499.93	-4.85	16.44	-4.85	17.15	106.45	0.01
4600.00	0.53	89.62	4599.92	-4.87	17.34	-4.87	18.01	105.67	0.03
4700.00	0.49	85.11	4699.92	-4.83	18.22	-4.83	18.85	104.83	0.06
4800.00	0.18	91.75	4799.92	-4.79	18.81	-4.79	19.41	104.30	0.31
4900.00	0.64	104.89	4899.92	-4.94	19.50	-4.94	20.12	104.22	0.46
5000.00	0.52	124.86	4999.91	-5.34	20.41	-5.34	21.10	104.67	0.23
5100.00	0.72	123.74	5099.91	-5.95	21.31	-5.95	22.12	105.61	0.20
5200.00	0.50	131.83	5199.90	-6.59	22.15	-6.59	23.11	106.57	0.24
5300.00	0.66	129.83	5299.89	-7.25	22.92	-7.25	24.04	107.56	0.16
5400.00	0.38	120.69	5399.89	-7.79	23.65	-7.79	24.90	108.23	0.29
5500.00	0.72	113.64	5499.89	-8.21	24.52	-8.21	25.86	108.52	0.35
5600.00	0.39	109.09	5599.88	-8.58	25.41	-8.58	26.82	108.65	0.34
5700.00	0.83	95.15	5699.87	-8.75	26.45	-8.75	27.86	108.31	0.46

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	0.52	82.59	5799.87	-8.76	27.62	-8.76	28.97	107.60	0.34
5900.00	0.42	82.90	5899.86	-8.66	28.43	-8.66	29.72	106.94	0.10
6000.00	0.52	80.76	5999.86	-8.54	29.23	-8.54	30.46	106.28	0.10
6100.00	0.55	74.18	6099.86	-8.34	30.14	-8.34	31.27	105.46	0.07
6200.00	0.35	68.69	6199.85	-8.09	30.89	-8.09	31.93	104.68	0.21
6300.00	0.26	67.38	6299.85	-7.90	31.38	-7.90	32.36	104.13	0.09
6400.00	0.03	66.51	6399.85	-7.80	31.61	-7.80	32.56	103.86	0.22
6500.00	0.26	13.44	6499.85	-7.57	31.69	-7.57	32.58	103.43	0.25
6600.00	0.14	3.75	6599.85	-7.22	31.75	-7.22	32.56	102.81	0.13
6700.00	0.18	5.02	6699.85	-6.94	31.77	-6.94	32.52	102.33	0.04
6800.00	0.24	9.61	6799.85	-6.58	31.82	-6.58	32.49	101.69	0.06
6900.00	0.06	8.71	6899.85	-6.32	31.86	-6.32	32.48	101.23	0.17
7000.00	0.27	8.38	6999.85	-6.04	31.90	-6.04	32.47	100.72	0.20
7100.00	0.32	5.71	7099.85	-5.53	31.96	-5.53	32.44	99.82	0.06
7200.00	0.63	347.11	7199.84	-4.72	31.87	-4.72	32.22	98.42	0.34
7300.00	0.45	341.56	7299.84	-3.81	31.62	-3.81	31.85	96.87	0.19
7400.00	0.29	345.05	7399.84	-3.19	31.43	-3.19	31.59	95.79	0.16
7500.00	0.56	350.79	7499.83	-2.45	31.29	-2.45	31.38	94.49	0.27
7600.00	0.55	332.05	7599.83	-1.55	30.98	-1.55	31.02	92.86	0.18
7700.00	0.66	330.92	7699.82	-0.62	30.48	-0.62	30.49	91.17	0.12
7800.00	0.86	335.86	7799.82	0.57	29.89	0.57	29.90	88.90	0.21
7900.00	0.85	334.52	7899.80	1.93	29.26	1.93	29.33	86.23	0.03
8000.00	0.91	335.84	7999.79	3.32	28.62	3.32	28.81	83.39	0.07
8100.00	0.68	328.41	8099.78	4.55	27.99	4.55	28.35	80.77	0.25
8200.00	0.65	321.70	8199.78	5.50	27.32	5.50	27.87	78.62	0.08
8300.00	1.19	320.18	8299.76	6.74	26.31	6.74	27.16	75.64	0.54
8400.00	1.32	327.96	8399.74	8.50	25.04	8.50	26.44	71.24	0.21
8500.00	1.29	320.25	8499.71	10.34	23.71	10.34	25.87	66.43	0.18
8600.00	1.15	311.93	8599.69	11.88	22.24	11.88	25.22	61.89	0.22
8700.00	0.58	313.95	8699.68	12.90	21.13	12.90	24.76	58.60	0.58
8800.00	0.96	295.51	8799.67	13.61	20.02	13.61	24.21	55.79	0.45
8900.00	1.66	298.80	8899.64	14.67	18.00	14.67	23.22	50.82	0.71
9000.00	1.70	294.29	8999.60	15.97	15.38	15.97	22.17	43.91	0.14
9100.00	1.50	288.25	9099.56	16.99	12.78	16.99	21.26	36.94	0.26
9200.00	1.42	291.43	9199.53	17.86	10.38	17.86	20.66	30.17	0.12
9300.00	1.40	291.19	9299.50	18.75	8.09	18.75	20.42	23.34	0.02
9400.00	1.05	291.99	9399.48	19.53	6.11	19.53	20.47	17.37	0.35
9500.00	0.62	291.80	9499.47	20.07	4.76	20.07	20.63	13.35	0.43
9600.00	0.78	277.58	9599.46	20.36	3.59	20.36	20.68	10.01	0.24

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	0.94	275.89	9699.45	20.54	2.10	20.54	20.64	5.85	0.16
9800.00	1.28	276.72	9799.43	20.75	0.18	20.75	20.75	0.49	0.34
9910.00	1.56	254.94	9909.39	20.51	-2.49	20.51	20.66	353.08	0.55



VES Survey International
West Texas
432-563-5444
Chris Bankson
Airstrip Fee Com 1H / API 30-025-41152



VES Survey Date: 06/24/2014



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 6/24/14 through 7/10/14 conduct or supervise the taking of a MWD survey from a depth of 9958 feet to a depth 17759 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 Airstrip Fee Com #1H Well API 30-025-41152 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.

A handwritten signature of Michael K. Baber in black ink.

Michael K. Baber
MWD Operations Manager

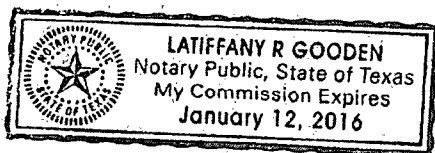
State of Texas

County of Montgomery

Before me, a notary public, on this day personally appeared Michael K. 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.

A handwritten signature of the notary public in black ink.

Notary Public's Signature





Customer Name: COG Operating LLC
Well Name: Airstrip Fee Com 1H
API Number: 30-025-41152
County / Parish: Lea County

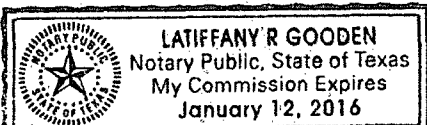
M.W.D. Operator: Rusty Whitfield
Directional Driller: Corey Owens
Total Magnetic Correction: 6.76
Job #: NM-446

Vertical Section: 359.06

Tie In Survey(s) Provided By:

VES - GYRO

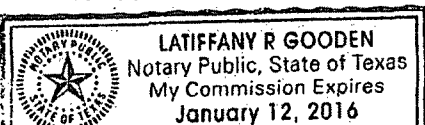
	Meas. Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N / -S	+E / -W	Dist.	Angle	DLS
Tie - In										
0	9910.00	1.56	254.94	9909.40	20.54	20.50	-2.50	0.00	0.00	0.00
1	9958.00	1.40	268.30	9957.38	20.37	20.31	-3.72	20.65	349.63	0.79
2	10052.00	1.50	282.00	10051.35	20.63	20.53	-6.07	21.41	343.54	0.38
3	10146.00	1.20	272.90	10145.33	20.97	20.84	-8.25	22.42	338.39	0.39
4	10177.00	1.30	279.60	10176.32	21.06	20.92	-8.93	22.74	336.89	0.57
5	10208.00	2.90	328.10	10207.30	21.80	21.64	-9.69	23.71	335.88	7.29
6	10240.00	6.80	342.50	10239.18	24.31	24.13	-10.68	26.39	336.12	12.67
7	10272.00	11.80	344.40	10270.75	29.29	29.10	-12.14	31.53	337.36	15.65
8	10303.00	16.50	343.40	10300.80	36.60	36.37	-14.25	39.06	338.61	15.18
9	10334.00	20.80	342.20	10330.17	46.11	45.84	-17.19	48.95	339.44	13.93
10	10365.00	23.30	343.20	10358.90	57.28	56.95	-20.64	60.57	340.07	8.15
11	10397.00	25.90	343.20	10387.99	70.09	69.70	-24.49	73.88	340.64	8.13
12	10427.00	28.10	343.90	10414.72	83.21	82.76	-28.35	87.48	341.09	7.41
13	10459.00	31.20	344.40	10442.53	98.51	97.99	-32.67	103.29	341.56	9.72
14	10490.00	34.40	345.00	10468.58	114.78	114.18	-37.09	120.06	342.00	10.38
15	10521.00	37.10	347.20	10493.74	132.43	131.76	-41.43	138.13	342.54	9.65
16	10553.00	39.20	350.60	10518.90	151.88	151.16	-45.22	157.78	343.34	9.28
17	10584.00	40.90	353.80	10542.64	171.68	170.92	-47.92	177.51	344.34	8.61
18	10616.00	43.20	356.20	10566.40	193.05	192.26	-49.78	198.60	345.48	8.77
19	10647.00	46.30	358.70	10588.41	214.86	214.06	-50.74	219.99	346.67	11.50
20	10678.00	49.30	0.40	10609.23	237.82	237.02	-50.91	242.43	347.88	10.49
21	10710.00	52.00	1.00	10629.52	262.56	261.76	-50.60	266.61	349.06	8.56
22	10741.00	54.70	0.80	10648.02	287.41	286.63	-50.21	290.99	350.06	8.73
23	10773.00	57.50	0.40	10665.87	313.96	313.18	-49.94	317.14	350.94	8.81
24	10804.00	60.50	1.10	10681.84	340.52	339.75	-49.59	343.35	351.70	9.87
25	10836.00	62.90	2.40	10697.01	368.66	367.91	-48.72	371.12	352.46	8.31
26	10867.00	65.10	3.10	10710.59	396.46	395.74	-47.38	398.56	353.17	7.38
27	10898.00	67.50	2.90	10723.05	424.78	424.08	-45.90	426.56	353.82	7.76
28	10930.00	71.20	2.40	10734.34	454.66	453.99	-44.52	456.17	354.40	11.65
29	10961.00	74.40	1.10	10743.50	484.23	483.58	-43.61	485.55	354.85	11.07
30	10991.00	76.20	359.70	10751.12	513.24	512.60	-43.41	514.43	355.16	7.51
31	11022.00	78.70	358.20	10757.85	543.50	542.85	-43.97	544.63	355.37	9.35
32	11054.00	81.50	357.70	10763.35	575.01	574.35	-45.10	576.12	355.51	8.88
33	11085.00	84.80	357.40	10767.05	605.78	605.10	-46.41	606.87	355.61	10.69
34	11116.00	88.00	357.30	10769.00	636.70	636.00	-47.84	637.79	355.70	10.33
35	11211.00	90.80	356.90	10769.99	731.63	730.86	-52.65	732.76	355.88	2.98
36	11305.00	93.60	356.90	10766.38	825.48	824.65	-57.73	826.66	356.00	2.98
37	11398.00	93.50	358.50	10760.62	918.27	917.39	-61.45	919.45	356.17	1.72
38	11492.00	90.80	0.30	10757.10	1012.19	1011.31	-62.44	1013.23	356.47	3.45
39	11586.00	92.90	359.90	10754.06	1106.12	1105.25	-62.27	1107.00	356.78	2.27
40	11681.00	90.70	0.90	10751.08	1201.04	1200.19	-61.61	1201.77	357.06	2.54
41	11775.00	90.00	1.70	10750.51	1294.97	1294.17	-59.48	1295.53	357.37	1.13
42	11868.00	92.00	1.80	10748.88	1387.85	1387.10	-56.64	1388.26	357.66	2.15
43	11962.00	90.20	1.20	10747.08	1481.74	1481.05	-54.18	1482.04	357.91	2.02



[Signature]

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44	12056.00	91.50	1.30	10745.68	1575.66	1575.02	-52.13	1575.88	358.10	1.39
45	12150.00	90.10	359.80	10744.37	1669.61	1669.00	-51.22	1669.78	358.24	2.18
46	12243.00	91.30	359.60	10743.23	1762.60	1761.99	-51.71	1762.75	358.32	1.31
47	12337.00	89.70	0.20	10742.41	1856.58	1855.98	-51.88	1856.71	358.40	1.82
48	12431.00	91.60	359.60	10741.35	1950.56	1949.97	-52.04	1950.66	358.47	2.12
49	12526.00	91.20	0.20	10739.03	2045.52	2044.94	-52.20	2045.61	358.54	0.76
50	12619.00	89.10	1.30	10738.78	2138.47	2137.93	-50.99	2138.53	358.63	2.55
51	12713.00	91.30	0.60	10738.46	2232.42	2231.91	-49.43	2232.45	358.73	2.46
52	12807.00	88.30	1.10	10738.78	2326.36	2325.88	-48.03	2326.38	358.82	3.24
53	12901.00	89.60	0.70	10740.51	2420.29	2419.85	-46.56	2420.30	358.90	1.45
54	12995.00	89.30	0.10	10741.41	2514.26	2513.85	-45.90	2514.27	358.95	0.71
55	13089.00	91.40	359.60	10740.83	2608.25	2607.84	-46.15	2608.25	358.99	2.30
56	13183.00	90.00	358.90	10739.69	2702.24	2701.82	-47.38	2702.24	359.00	1.67
57	13277.00	92.40	358.30	10737.72	2796.20	2795.77	-49.67	2796.21	358.98	2.63
58	13371.00	91.10	358.70	10734.85	2890.15	2889.69	-52.13	2890.16	358.97	1.45
59	13464.00	93.70	358.40	10730.95	2983.06	2982.57	-54.48	2983.07	358.95	2.81
60	13558.00	92.20	359.20	10726.11	3076.93	3076.42	-56.45	3076.94	358.95	1.81
61	13652.00	91.10	359.30	10723.41	3170.89	3170.37	-57.68	3170.90	358.96	1.18
62	13746.00	93.20	359.30	10719.88	3264.82	3264.29	-58.83	3264.82	358.97	2.23
63	13840.00	91.20	358.30	10716.27	3358.74	3358.20	-60.80	3358.75	358.96	2.38
64	13934.00	93.10	358.00	10712.75	3452.66	3452.08	-63.83	3452.67	358.94	2.05
65	14027.00	90.70	358.60	10709.66	3545.59	3544.98	-66.58	3545.60	358.92	2.66
66	14121.00	92.30	358.40	10707.20	3639.55	3638.91	-69.04	3639.57	358.91	1.72
67	14215.00	91.30	358.90	10704.25	3733.50	3732.84	-71.26	3733.52	358.91	1.19
68	14310.00	89.90	359.10	10703.26	3828.50	3827.81	-72.91	3828.51	358.91	1.49
69	14404.00	92.70	358.50	10701.12	3922.46	3921.76	-74.88	3922.47	358.91	3.05
70	14497.00	92.20	358.10	10697.15	4015.37	4014.63	-77.64	4015.38	358.89	0.69
71	14591.00	90.20	358.30	10695.18	4109.33	4108.56	-80.59	4109.35	358.88	2.14
72	14685.00	93.20	358.00	10692.39	4203.27	4202.46	-83.62	4203.29	358.86	3.21
73	14779.00	91.60	358.40	10688.46	4297.17	4296.33	-86.57	4297.20	358.85	1.75
74	14873.00	90.20	358.70	10686.98	4391.15	4390.28	-88.95	4391.19	358.84	1.52
75	14967.00	93.00	358.20	10684.35	4485.10	4484.20	-91.49	4485.14	358.83	3.03
76	15061.00	91.40	359.60	10680.75	4579.03	4578.11	-93.30	4579.06	358.83	2.26
77	15156.00	90.70	359.90	10679.00	4674.00	4673.09	-93.71	4674.03	358.85	0.80
78	15250.00	90.70	359.00	10677.86	4767.99	4767.08	-94.61	4768.02	358.86	0.96
79	15344.00	93.50	357.90	10674.41	4861.91	4860.97	-97.15	4861.94	358.86	3.20
80	15438.00	91.70	359.60	10670.15	4955.81	4954.85	-99.20	4955.84	358.85	2.63
81	15532.00	90.50	0.50	10668.34	5049.77	5048.83	-99.12	5049.80	358.88	1.60
82	15625.00	92.90	359.70	10665.58	5142.71	5141.78	-98.95	5142.73	358.90	2.72
83	15719.00	90.70	0.20	10662.63	5236.65	5235.73	-99.04	5236.66	358.92	2.40
84	15814.00	92.80	359.50	10659.73	5331.59	5330.68	-99.28	5331.60	358.93	2.33
85	15907.00	90.90	0.20	10656.73	5424.52	5423.62	-99.53	5424.53	358.95	2.18
86	16001.00	93.20	359.50	10653.37	5518.45	5517.55	-99.77	5518.46	358.96	2.56
87	16095.00	92.20	0.30	10648.94	5612.33	5611.45	-99.94	5612.34	358.98	1.36
88	16189.00	90.70	0.40	10646.56	5706.28	5705.41	-99.36	5706.28	359.00	1.60
89	16283.00	93.10	0.10	10643.44	5800.20	5799.35	-98.95	5800.20	359.02	2.57
90	16376.00	91.50	359.60	10639.71	5893.11	5892.27	-99.20	5893.11	359.04	1.80
91	16470.00	92.20	359.60	10636.68	5987.06	5986.22	-99.85	5987.06	359.04	0.74
92	16564.00	91.50	360.00	10633.64	6081.00	6080.17	-100.18	6081.00	359.06	0.86
93	16658.00	91.30	359.50	10631.35	6174.96	6174.14	-100.59	6174.96	359.07	0.57
94	16752.00	93.70	358.80	10627.25	6268.87	6268.04	-101.98	6268.87	359.07	2.66
95	16846.00	91.90	359.20	10622.65	6362.75	6361.91	-103.62	6362.75	359.07	1.96
96	16939.00	90.20	359.60	10620.95	6455.73	6454.88	-104.59	6455.73	359.07	1.88
97	17034.00	92.50	358.90	10618.71	6550.69	6549.84	-105.84	6550.69	359.07	2.53
98	17127.00	91.80	358.20	10615.22	6643.62	6642.74	-108.19	6643.62	359.07	1.06
99	17222.00	90.50	358.80	10613.32	6738.60	6737.69	-110.67	6738.60	359.06	1.51
100	17315.00	93.00	358.40	10610.48	6831.54	6830.61	-112.95	6831.54	359.05	2.72
101	17409.00	93.00	357.90	10605.56	6925.40	6924.43	-115.98	6925.40	359.04	0.53



102	17503.00	93.40	358.80	10600.31	7019.25	7018.25	-118.68	7019.25	359.03	1.05
103	17597.00	92.30	358.60	10595.64	7113.13	7112.10	-120.81	7113.13	359.03	1.19
104	17691.00	93.00	358.50	10591.29	7207.02	7205.97	-123.18	7207.03	359.02	0.75
105	17713.00	94.40	358.10	10589.87	7228.98	7227.92	-123.84	7228.98	359.02	6.62
PTB	17759.00	94.40	358.10	10586.34	7274.83	7273.76	-125.36	7274.84	359.01	0.00

