



APR 10 2019

Directional Survey Data

DISTRICT II-ARTESIA O.C.D.

Well Name HH CE 35 2 FED 006 4H	Lease HH CE 35 2 Fed 006	Field Name Purple Sage	Business Unit Mid-Continent	Latitude (°) 32° 5' 7.868" N	Longitude (°) 104° 9' 11.768" W	Surface UWI 3001544349	Surface ChevNo PM0787
Wellbore Name Original Hole	Wellbore UWI 300154434900	Wellbore ChevNo PM0787-00	Directional Type Horizontal	Min Kick Off Depth (ftOTH)	Min Kick Off Depth (TVD) (ftOTH)	Total Depth of Wellbore (ftOTH) 17,709.00	Date TD Reached (wellbore) 6/26/2018

Bottom Hole Location							
Northing (Y) (ft)	Easting (X) (ft)	UTM Grid Zone	Latitude (°)	Longitude (°)	Closure Direction (°)	189.00	

Directional Surveys			
Description MWD	Planned? N	Definitive? N	Note Correction

Survey Data											
Survey Company	Date	MD (ftOTH)	TVD (ftOTH)	Incl (°)	Azm (°)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)
	12/19/2017	169	169.00	0.35	66.33	-0.28	0.21	0.47	0.21	0.21	39.25
	12/19/2017	355	355.00	0.43	232.81	-0.08	0.01	0.44	0.42	0.04	89.51
	12/19/2017	442	442.00	0.32	231.28	0.33	-0.34	-0.01	0.13	-0.13	-1.76
	12/19/2017	521	520.99	0.78	250.42	0.75	-0.65	-0.69	0.62	0.58	24.23
	1/26/2018	614	613.99	0.52	260.23	1.19	-0.94	-1.70	0.30	-0.28	10.55
	1/26/2018	706	705.98	0.18	259.67	1.37	-1.03	-2.26	0.37	-0.37	-0.61
	1/26/2018	800	799.98	0.22	148.90	1.56	-1.22	-2.31	0.35	0.04	-117.84
	1/26/2018	893	892.98	0.10	123.28	1.73	-1.41	-2.15	0.15	-0.13	-27.55
	1/26/2018	987	986.98	0.21	182.34	1.94	-1.63	-2.09	0.19	0.12	62.83
	1/26/2018	1,081	1,080.98	0.16	138.37	2.19	-1.90	-2.01	0.16	-0.05	-46.78
	1/26/2018	1,176	1,175.98	0.21	150.41	2.41	-2.15	-1.83	0.07	0.05	12.67
	1/26/2018	1,271	1,270.98	0.26	164.27	2.74	-2.51	-1.69	0.08	0.05	14.59
	1/26/2018	1,366	1,365.98	0.23	212.12	3.11	-2.88	-1.73	0.21	-0.03	50.37
	1/26/2018	1,460	1,459.98	0.24	208.14	3.47	-3.21	-1.93	0.02	0.01	-4.23
	1/27/2018	1,555	1,554.98	0.14	304.75	3.61	-3.32	-2.11	0.31	-0.11	101.69
	1/27/2018	1,650	1,649.98	0.68	65.02	3.25	-3.02	-1.70	0.80	0.57	126.60
	1/27/2018	1,745	1,744.96	1.55	77.16	2.45	-2.49	0.07	0.94	0.92	12.78
	1/27/2018	1,839	1,838.92	1.76	87.02	1.68	-2.14	2.75	0.38	0.22	10.49
	1/27/2018	1,933	1,932.89	1.27	96.37	1.33	-2.18	5.22	0.58	-0.52	9.95
	1/27/2018	2,028	2,027.87	0.59	103.52	1.32	-2.41	6.74	0.72	-0.72	7.53
	1/27/2018	2,122	2,121.87	0.58	299.38	1.20	-2.29	6.80	1.23	-0.01	-174.62
	1/27/2018	2,217	2,216.83	2.66	278.35	1.05	-1.73	4.20	2.24	2.19	-22.14
	1/27/2018	2,312	2,311.59	5.36	274.16	1.45	-1.09	-2.41	2.86	2.84	-4.41
	1/27/2018	2,406	2,404.91	8.31	278.78	1.85	0.27	-13.50	3.19	3.14	4.91
	1/27/2018	2,500	2,497.64	10.49	278.36	1.97	2.55	-28.68	2.32	2.32	-0.45
	1/27/2018	2,595	2,590.61	13.19	279.09	2.05	5.52	-47.95	2.85	2.84	0.77
	1/27/2018	2,689	2,681.69	15.42	280.79	1.64	9.55	-70.81	2.41	2.37	1.81
	1/27/2018	2,784	2,772.81	17.44	283.10	0.23	15.14	-97.09	2.23	2.13	2.43
	1/27/2018	2,878	2,861.97	19.46	283.09	-1.89	21.88	-126.06	2.15	2.15	-0.01
	1/27/2018	2,972	2,949.91	21.92	281.23	-3.69	28.85	-158.53	2.71	2.62	-1.98
	1/27/2018	3,066	3,037.01	22.25	281.53	-5.16	35.82	-193.18	0.37	0.35	0.32
	1/27/2018	3,161	3,125.21	21.36	281.19	-6.62	42.77	-227.77	0.95	-0.94	-0.36
	1/27/2018	3,255	3,213.16	19.98	281.44	-7.95	49.28	-260.31	1.47	-1.47	0.27
	1/27/2018	3,349	3,301.10	21.37	281.00	-9.24	55.74	-292.86	1.49	1.48	-0.47
	1/27/2018	3,444	3,389.62	21.21	281.28	-10.52	62.40	-326.70	0.20	-0.17	0.29



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Survey Company	Date	MD (ftOTH)	TVD (ftOTH)	Incl (°)	Azm (°)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	
	1/27/2018	3,538	3,477.31	21.02	281.26	-11.87	69.02	-359.91	0.20	-0.20	-0.02	
	1/27/2018	3,633	3,566.09	20.66	281.51	-13.27	75.69	-393.05	0.39	-0.38	0.26	
	1/27/2018	3,728	3,655.13	20.16	281.59	-14.74	82.32	-425.50	0.53	-0.53	0.08	
	1/27/2018	3,823	3,744.62	19.06	282.00	-16.30	88.84	-456.72	1.17	-1.16	0.43	
	1/27/2018	3,918	3,834.20	19.81	281.52	-17.82	95.28	-487.66	0.81	0.79	-0.51	
	1/29/2018	4,013	3,923.10	21.48	279.80	-18.77	101.45	-520.58	1.87	1.76	-1.81	
	1/29/2018	4,108	4,011.37	21.92	279.66	-19.21	107.39	-555.20	0.47	0.46	-0.15	
	1/29/2018	4,203	4,099.63	21.48	279.83	-19.67	113.33	-589.82	0.47	-0.46	0.18	
	1/29/2018	4,298	4,188.22	20.86	280.46	-20.35	119.37	-623.59	0.70	-0.65	0.66	
	1/29/2018	4,393	4,277.28	19.88	280.82	-21.30	125.48	-656.09	1.04	-1.03	0.38	
	1/29/2018	4,488	4,366.48	20.38	280.51	-22.25	131.53	-688.22	0.54	0.53	-0.33	
	1/29/2018	4,582	4,454.76	19.78	280.50	-23.09	137.41	-719.95	0.64	-0.64	-0.01	
	1/29/2018	4,677	4,544.12	19.93	280.04	-23.81	143.16	-751.70	0.23	0.16	-0.48	
	1/29/2018	4,772	4,633.02	21.32	280.43	-24.53	149.11	-784.63	1.47	1.46	0.41	
	1/29/2018	4,867	4,721.85	20.21	281.85	-25.78	155.61	-817.67	1.28	-1.17	1.49	
	1/29/2018	4,962	4,811.18	19.58	281.72	-27.35	162.21	-849.32	0.66	-0.66	-0.14	
	1/29/2018	5,057	4,900.93	18.71	282.22	-28.96	168.67	-879.80	0.93	-0.92	0.53	
	1/29/2018	5,152	4,991.21	17.56	281.31	-30.40	174.71	-908.74	1.25	-1.21	-0.96	
	1/29/2018	5,247	5,082.10	16.23	281.55	-31.56	180.17	-935.81	1.40	-1.40	0.25	
	1/29/2018	5,342	5,173.56	15.15	281.24	-32.64	185.25	-960.99	1.14	-1.14	-0.33	
	1/29/2018	5,436	5,264.42	14.56	281.84	-33.71	190.07	-984.60	0.65	-0.63	0.64	
	1/30/2018	5,531	5,356.60	13.42	281.62	-34.80	194.74	-1,007.09	1.20	-1.20	-0.23	
	1/30/2018	5,625	5,448.19	12.58	281.11	-35.68	198.91	-1,027.82	0.90	-0.89	-0.54	
	1/30/2018	5,719	5,540.17	11.22	280.04	-36.22	202.48	-1,046.87	1.47	-1.45	-1.14	
	1/30/2018	5,814	5,633.50	10.30	280.30	-36.58	205.61	-1,064.33	0.97	-0.97	0.27	
	1/30/2018	5,909	5,727.19	8.72	278.57	-36.72	208.20	-1,079.80	1.69	-1.66	-1.82	
	1/30/2018	6,004	5,821.26	7.31	277.65	-36.52	210.08	-1,092.91	1.49	-1.48	-0.97	
	1/31/2018	6,099	5,915.54	6.80	274.51	-35.94	211.33	-1,104.51	0.67	-0.54	-3.31	
	1/31/2018	6,195	6,011.10	4.06	278.07	-35.44	212.25	-1,113.54	2.87	-2.85	3.71	
	1/31/2018	6,290	6,105.93	2.85	278.32	-35.36	213.06	-1,119.21	1.27	-1.27	0.26	
	1/31/2018	6,384	6,199.82	2.70	270.17	-34.99	213.41	-1,123.74	0.45	-0.16	-8.67	
	2/1/2018	6,480	6,295.72	2.33	268.12	-34.27	213.35	-1,127.95	0.40	-0.39	-2.14	
	2/1/2018	6,574	6,389.68	1.18	259.59	-33.59	213.11	-1,130.81	1.25	-1.22	-9.07	
	2/1/2018	6,669	6,484.67	0.68	264.08	-33.12	212.88	-1,132.33	0.53	-0.53	4.73	
	2/1/2018	6,764	6,579.66	0.68	226.29	-32.53	212.43	-1,133.30	0.46	0.00	-39.78	
	2/1/2018	6,858	6,673.65	0.64	269.64	-32.00	212.04	-1,134.23	0.52	-0.04	46.12	
	2/1/2018	6,953	6,768.65	0.32	271.71	-31.88	212.05	-1,135.03	0.34	-0.34	2.18	
	2/1/2018	7,047	6,862.65	0.16	243.04	-31.77	211.99	-1,135.40	0.21	-0.17	-30.50	
	2/1/2018	7,141	6,956.65	0.18	248.92	-31.62	211.88	-1,135.66	0.03	0.02	6.26	
	2/1/2018	7,237	7,052.65	0.52	223.14	-31.18	211.51	-1,136.10	0.38	0.35	-26.85	
	2/1/2018	7,332	7,147.64	0.38	185.03	-30.51	210.88	-1,136.42	0.34	-0.15	-40.12	
	2/2/2018	7,427	7,242.64	0.55	179.85	-29.75	210.11	-1,136.45	0.18	0.18	-5.45	
	2/2/2018	7,521	7,336.64	0.46	220.27	-28.98	209.37	-1,136.69	0.38	-0.10	43.00	



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	2/2/2018	7,616	7,431.63	0.75	199.77	-28.04	208.50	-1,137.15	0.38	0.31	-21.58	
	2/2/2018	7,711	7,526.62	1.07	214.90	-26.63	207.18	-1,137.86	0.42	0.34	15.93	
	2/3/2018	7,806	7,621.61	0.90	237.49	-25.34	206.06	-1,139.00	0.44	-0.18	23.78	
	2/3/2018	7,901	7,716.60	0.13	163.36	-24.75	205.55	-1,139.60	0.92	-0.81	-78.03	
	2/3/2018	7,995	7,810.60	0.85	67.97	-25.01	205.71	-1,138.92	0.93	0.77	-101.48	
	2/3/2018	8,090	7,905.59	0.84	68.00	-25.73	206.24	-1,137.62	0.01	-0.01	0.03	
	2/3/2018	8,185	8,000.58	0.57	110.80	-26.00	206.33	-1,136.54	0.60	-0.28	45.05	
	2/3/2018	8,280	8,095.58	0.47	191.16	-25.51	205.78	-1,136.17	0.71	-0.11	84.59	
	2/4/2018	8,375	8,190.58	0.55	281.69	-25.14	205.49	-1,136.69	0.77	0.08	95.29	
	2/4/2018	8,469	8,284.57	0.74	287.50	-25.25	205.76	-1,137.71	0.21	0.20	6.18	
	2/4/2018	8,564	8,379.56	0.74	263.49	-25.18	205.88	-1,138.91	0.32	0.00	-25.27	
	2/4/2018	8,658	8,473.55	0.90	264.19	-24.83	205.73	-1,140.24	0.17	0.17	0.74	
	2/4/2018	8,753	8,568.54	0.98	285.17	-24.72	205.87	-1,141.77	0.37	0.08	22.08	
	2/5/2018	8,848	8,663.52	1.22	291.90	-25.04	206.46	-1,143.49	0.29	0.25	7.08	
	2/5/2018	8,942	8,757.50	1.32	292.27	-25.51	207.24	-1,145.42	0.11	0.11	0.39	
	2/5/2018	9,037	8,852.48	1.22	287.84	-25.92	207.97	-1,147.40	0.15	-0.11	-4.66	
	2/5/2018	9,131	8,946.46	1.05	283.88	-26.14	208.48	-1,149.19	0.20	-0.18	-4.21	
	2/5/2018	9,225	9,040.44	1.13	285.08	-26.31	208.93	-1,150.92	0.09	0.09	1.28	
	2/5/2018	9,320	9,135.43	0.90	273.70	-26.34	209.22	-1,152.57	0.32	-0.24	-11.98	
	2/5/2018	9,408	9,223.42	0.96	252.89	-25.96	209.05	-1,153.96	0.39	0.07	-23.65	
	2/5/2018	9,488	9,303.41	0.77	254.69	-25.44	208.71	-1,155.12	0.24	-0.24	2.25	
	2/5/2018	9,535	9,350.40	1.12	226.27	-24.94	208.31	-1,155.76	1.22	0.74	-60.47	
	2/5/2018	9,582	9,397.29	6.11	199.58	-22.12	205.63	-1,156.93	10.92	10.62	-56.79	
	2/5/2018	9,629	9,443.70	11.81	200.15	-14.94	198.76	-1,159.43	12.13	12.13	1.21	
	2/5/2018	9,677	9,490.29	15.92	202.31	-3.70	188.05	-1,163.62	8.63	8.56	4.50	
	2/5/2018	9,724	9,535.06	19.51	200.41	10.27	174.73	-1,168.80	7.74	7.64	-4.04	
	2/5/2018	9,772	9,579.79	23.01	194.89	27.46	158.14	-1,174.01	8.39	7.29	-11.50	
	2/5/2018	9,819	9,622.35	27.14	192.44	47.31	138.79	-1,178.68	9.06	8.79	-5.21	
	2/5/2018	9,866	9,663.30	31.62	188.44	70.34	116.12	-1,182.80	10.40	9.53	-8.51	
	2/5/2018	9,913	9,702.38	35.85	183.72	96.38	90.18	-1,185.51	10.58	9.00	-10.04	
	2/5/2018	9,961	9,740.01	40.87	179.80	125.91	60.43	-1,186.37	11.62	10.46	-8.17	
	2/5/2018	10,008	9,774.04	46.34	178.66	157.84	28.03	-1,185.91	11.76	11.64	-2.43	
	2/5/2018	10,056	9,805.28	52.38	178.71	193.65	-8.37	-1,185.08	12.58	12.58	0.10	
	2/5/2018	10,103	9,832.01	58.27	177.55	231.59	-46.98	-1,183.80	12.69	12.53	-2.47	
	2/5/2018	10,151	9,855.03	64.39	176.17	272.74	-89.01	-1,181.48	13.00	12.75	-2.88	
	2/5/2018	10,198	9,872.93	70.80	175.53	315.03	-132.33	-1,178.34	13.70	13.64	-1.36	
	2/5/2018	10,246	9,885.61	78.55	176.01	360.06	-178.46	-1,174.93	16.17	16.15	1.00	
	2/5/2018	10,293	9,894.56	79.49	175.72	404.99	-224.48	-1,171.60	2.09	2.00	-0.62	
	2/5/2018	10,341	9,901.10	84.86	175.80	451.27	-271.88	-1,168.09	11.19	11.19	0.17	
	2/5/2018	10,436	9,908.19	86.57	175.70	543.47	-366.35	-1,161.07	1.80	1.80	-0.11	
	2/5/2018	10,531	9,908.98	92.48	175.66	635.87	-461.04	-1,153.91	6.22	6.22	-0.04	
	2/5/2018	10,625	9,905.68	91.55	174.74	727.10	-554.65	-1,146.05	1.39	-0.99	-0.98	
	2/5/2018	10,720	9,903.07	91.59	176.40	819.47	-649.33	-1,138.72	1.75	0.04	1.75	



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	2/5/2018	10,815	9,901.34	90.50	174.63	911.83	-744.01	-1,131.29	2.19	-1.15	-1.86	
	2/5/2018	10,910	9,902.10	88.58	177.13	1,004.33	-838.75	-1,124.46	3.32	-2.02	2.63	
	2/5/2018	11,004	9,904.43	88.58	177.71	1,096.39	-932.63	-1,120.23	0.62	-0.00	0.62	
	2/5/2018	11,099	9,906.74	88.64	181.96	1,190.13	-1,027.58	-1,119.96	4.47	0.06	4.47	
	2/5/2018	11,194	9,908.94	88.70	182.12	1,284.40	-1,122.49	-1,123.34	0.18	0.06	0.17	
	2/5/2018	11,289	9,910.82	89.04	181.89	1,378.68	-1,217.42	-1,126.67	0.43	0.36	-0.24	
	2/5/2018	11,383	9,911.01	90.73	183.49	1,472.10	-1,311.31	-1,131.08	2.48	1.80	1.70	
	2/5/2018	11,478	9,909.99	90.50	181.21	1,566.45	-1,406.22	-1,134.97	2.41	-0.24	-2.40	
	2/5/2018	11,573	9,911.67	87.47	177.55	1,660.07	-1,501.17	-1,133.95	5.00	-3.19	-3.85	
	2/5/2018	11,668	9,916.40	86.82	176.07	1,752.81	-1,595.90	-1,128.67	1.70	-0.68	-1.56	
	2/5/2018	11,762	9,920.03	88.76	179.55	1,844.94	-1,689.74	-1,125.08	4.24	2.06	3.70	
	2/5/2018	11,857	9,923.33	87.25	179.36	1,938.56	-1,784.68	-1,124.18	1.60	-1.59	-0.20	
	2/5/2018	11,952	9,924.23	91.67	183.91	2,032.73	-1,879.59	-1,126.89	6.68	4.65	4.79	
	2/5/2018	12,047	9,921.15	92.04	187.13	2,127.49	-1,974.08	-1,136.02	3.41	0.39	3.39	
	2/5/2018	12,141	9,920.78	88.42	181.77	2,221.14	-2,067.75	-1,143.31	6.88	-3.85	-5.70	
	2/5/2018	12,236	9,924.37	87.24	181.61	2,315.30	-2,162.64	-1,146.11	1.25	-1.24	-0.17	
	2/5/2018	12,331	9,926.74	89.90	181.25	2,409.44	-2,257.57	-1,148.48	2.83	2.80	-0.38	
	2/5/2018	12,426	9,924.26	93.10	181.63	2,503.57	-2,352.50	-1,150.86	3.39	3.37	0.40	
	2/5/2018	12,521	9,920.43	91.52	181.80	2,597.72	-2,447.37	-1,153.70	1.67	-1.66	0.18	
	2/5/2018	12,644	9,917.38	91.32	178.84	2,719.26	-2,570.32	-1,154.39	2.41	-0.16	-2.41	
	2/5/2018	12,739	9,914.98	91.58	178.48	2,812.69	-2,665.26	-1,152.17	0.47	0.27	-0.38	
	2/5/2018	12,834	9,912.54	91.36	177.07	2,905.84	-2,760.16	-1,148.48	1.50	-0.23	-1.48	
	2/5/2018	12,929	9,911.57	89.81	177.75	2,998.89	-2,855.05	-1,144.19	1.78	-1.63	0.72	
	2/5/2018	13,024	9,912.16	89.47	178.93	3,092.25	-2,950.01	-1,141.44	1.29	-0.36	1.24	
	2/5/2018	13,119	9,911.34	91.53	181.59	3,186.13	-3,044.99	-1,141.87	3.54	2.17	2.80	
	2/5/2018	13,214	9,908.02	92.47	182.05	3,280.33	-3,139.88	-1,144.88	1.10	0.99	0.48	
	2/5/2018	13,308	9,903.80	92.68	181.79	3,373.51	-3,233.74	-1,148.03	0.36	0.22	-0.28	
	2/5/2018	13,403	9,899.31	92.73	181.70	3,467.65	-3,328.59	-1,150.92	0.11	0.05	-0.09	
	2/5/2018	13,498	9,892.99	94.90	183.00	3,561.79	-3,423.29	-1,154.80	2.66	2.28	1.37	
	2/5/2018	13,593	9,887.09	92.22	183.29	3,656.11	-3,517.95	-1,160.01	2.84	-2.82	0.31	
	2/5/2018	13,688	9,889.02	85.46	183.23	3,750.56	-3,612.72	-1,165.40	7.12	-7.12	-0.06	
	2/5/2018	13,783	9,893.77	88.80	182.28	3,844.86	-3,707.48	-1,169.96	3.65	3.52	-1.00	
	2/5/2018	13,878	9,894.97	89.76	180.31	3,938.99	-3,802.44	-1,172.11	2.31	1.01	-2.07	
	2/5/2018	13,973	9,894.54	90.76	179.77	4,032.83	-3,897.44	-1,172.18	1.20	1.05	-0.57	
	2/5/2018	14,068	9,891.91	92.41	179.09	4,126.46	-3,992.40	-1,171.23	1.88	1.74	-0.72	
	2/5/2018	14,163	9,888.22	92.04	179.94	4,220.09	-4,087.32	-1,170.43	0.98	-0.39	0.89	
	6/19/2018	14,352	9,882.53	91.41	182.97	4,407.35	-4,276.15	-1,175.23	1.64	-0.33	1.60	
	6/19/2018	14,447	9,879.53	92.21	182.86	4,501.77	-4,370.98	-1,180.05	0.85	0.84	-0.12	
	6/19/2018	14,542	9,877.80	89.88	183.77	4,596.28	-4,465.80	-1,185.55	2.63	-2.45	0.96	
	6/19/2018	14,636	9,877.90	89.99	182.51	4,689.78	-4,559.65	-1,190.70	1.35	0.12	-1.34	
	6/20/2018	14,731	9,877.93	89.98	182.08	4,784.13	-4,654.58	-1,194.50	0.45	-0.01	-0.45	
	6/20/2018	14,826	9,877.38	90.68	182.95	4,878.52	-4,749.48	-1,198.67	1.18	0.74	0.92	
	6/20/2018	14,921	9,876.58	90.28	181.61	4,972.86	-4,844.40	-1,202.45	1.47	-0.42	-1.41	



Directional Survey Data

Survey Data												
Survey Company	Date	MD (ft)	TVD (ft)	Incl (°)	Azm (°)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	
	6/20/2018	15,016	9,877.07	89.13	181.68	5,067.08	-4,939.36	-1,205.17	1.21	-1.21	0.07	
	6/21/2018	15,111	9,876.51	91.55	182.66	5,161.40	-5,034.28	-1,208.77	2.75	2.55	1.03	
	6/21/2018	15,201	9,874.51	90.99	180.85	5,250.65	-5,124.21	-1,211.53	2.10	-0.62	-2.01	
	6/20/2018	15,296	9,873.37	90.39	180.66	5,344.66	-5,219.20	-1,212.78	0.66	-0.63	-0.20	
	6/21/2018	15,391	9,873.28	89.72	180.40	5,438.62	-5,314.19	-1,213.66	0.76	-0.71	-0.27	
	6/20/2018	15,485	9,874.10	89.28	180.32	5,531.55	-5,408.19	-1,214.25	0.48	-0.47	-0.09	
	6/21/2018	15,580	9,875.53	89.00	180.41	5,625.47	-5,503.17	-1,214.85	0.31	-0.29	0.09	
	6/22/2018	15,675	9,876.17	90.22	180.39	5,719.39	-5,598.17	-1,215.52	1.28	1.28	-0.02	
	6/22/2018	15,770	9,875.63	90.44	181.02	5,813.40	-5,693.16	-1,216.68	0.70	0.23	0.66	
	6/22/2018	15,865	9,875.32	89.93	180.49	5,907.42	-5,788.15	-1,217.94	0.77	-0.54	-0.56	
	6/22/2018	15,960	9,875.00	90.45	180.87	6,001.41	-5,883.14	-1,219.06	0.68	0.55	0.40	
	6/22/2018	16,056	9,874.25	90.45	181.14	6,096.48	-5,979.12	-1,220.75	0.28	0.00	0.28	
	6/22/2018	16,151	9,873.84	90.05	179.54	6,190.39	-6,074.12	-1,221.31	1.74	-0.42	-1.68	
	6/22/2018	16,246	9,873.64	90.18	179.59	6,284.11	-6,169.12	-1,220.59	0.15	0.14	0.05	
	6/22/2018	16,341	9,873.32	90.21	179.62	6,377.83	-6,264.11	-1,219.94	0.04	0.03	0.03	
	6/22/2018	16,436	9,873.83	89.18	179.28	6,471.51	-6,359.11	-1,219.02	1.14	-1.08	-0.36	
	6/22/2018	16,531	9,875.82	88.42	179.04	6,565.09	-6,454.07	-1,217.63	0.84	-0.80	-0.25	
	6/22/2018	16,626	9,877.19	89.92	179.62	6,658.73	-6,549.05	-1,216.52	1.69	1.58	0.61	
	6/23/2018	16,720	9,877.04	90.27	180.13	6,751.54	-6,643.05	-1,216.32	0.66	0.37	0.54	
	6/23/2018	16,815	9,876.54	90.33	179.70	6,845.35	-6,738.05	-1,216.17	0.46	0.06	-0.45	
	6/23/2018	16,910	9,875.83	90.53	179.79	6,939.11	-6,833.05	-1,215.75	0.23	0.21	0.09	
	6/23/2018	17,005	9,874.74	90.78	180.32	7,032.95	-6,928.04	-1,215.84	0.62	0.26	0.56	
	6/23/2018	17,100	9,873.06	91.25	181.15	7,126.94	-7,023.02	-1,217.06	1.00	0.49	0.87	
	6/23/2018	17,194	9,871.46	90.70	182.55	7,220.20	-7,116.95	-1,220.10	1.60	-0.59	1.49	
	6/24/2018	17,290	9,871.38	89.39	181.19	7,315.45	-7,212.90	-1,223.23	1.97	-1.36	-1.42	
	6/24/2018	17,385	9,872.26	89.55	181.95	7,409.65	-7,307.86	-1,225.83	0.82	0.17	0.80	
	6/24/2018	17,480	9,873.01	89.55	182.79	7,504.01	-7,402.77	-1,229.76	0.88	0.00	0.88	
	6/25/2018	17,574	9,873.53	89.81	183.28	7,597.50	-7,496.64	-1,234.74	0.59	0.28	0.52	
	6/25/2018	17,650	9,873.21	90.67	183.08	7,673.10	-7,572.52	-1,238.95	1.16	1.13	-0.26	
	6/25/2018	17,709	9,872.52	90.67	183.08	7,731.78	-7,631.43	-1,242.12	0.00	0.00	0.00	