



Directional Survey Data

Well Name HH CE 35 2 FED 006 2H	Lease HH CE 35 2 Fed 006	Field Name Purple Sage	Business Unit Mid-Continent	Latitude (°) 32° 5' 8.365" N	Longitude (°) 104° 9' 11.758" W	Surface UWI 3001544346	Surface ChevNo PM0785
Wellbore Name Original Hole	Wellbore UWI 300154434600	Wellbore ChevNo PM0785-00	Directional Type Horizontal	Min Kick Off Depth (ftOTH)	Min Kick Off Depth (TVD) (ftOTH)	Total Depth of Wellbore (ftOTH) 13,492.00	Date TD Reached (wellbore)

Bottom Hole Location							
Northing (Y) (ft)	Easting (X) (ft)	UTM Grid Zone	Latitude (°)	Longitude (°)	Closure Direction (°) 179.61		

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

Survey Company	Date	MD (ROTH)	TVD (ROTH)	Incl (°)	Azmi (°)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)
	7/22/2018	13	13.00							0.00	
	12/17/2017	169	169.00	0.63	237.92					0.40	
	12/17/2017	355	354.98	1.05	126.95				0.76	0.23	-59.66
	12/17/2017	445	444.97	1.35	113.00				0.46	0.33	-15.50
	2/23/2018	496	495.95	1.78	108.59				0.87	0.84	-8.65
	2/23/2018	589	588.89	2.12	106.52				0.37	0.37	-2.23
	2/23/2018	682	681.77	3.89	70.73				2.69	1.90	-38.48
	2/23/2018	774	773.49	4.98	55.55				1.73	1.18	-16.50
	2/23/2018	867	866.21	4.00	37.88				1.81	-1.05	-19.00
	2/23/2018	962	960.99	3.88	37.21				0.14	-0.13	-0.71
	2/24/2018	1,055	1,053.79	3.51	39.63				0.43	-0.40	2.60
	2/24/2018	1,150	1,148.64	3.06	38.51				0.48	-0.47	-1.18
	2/24/2018	1,245	1,243.53	2.35	36.15				0.76	-0.75	-2.48
	2/24/2018	1,340	1,338.42	3.08	36.80				0.77	0.77	0.68
	2/24/2018	1,434	1,432.27	3.54	40.90				0.55	0.49	4.36
	2/24/2018	1,529	1,527.10	3.22	40.37				0.34	-0.34	-0.56
	2/24/2018	1,625	1,622.95	3.20	41.89				0.09	-0.02	1.58
	2/24/2018	1,719	1,716.78	3.72	56.20				1.07	0.55	15.22
	2/24/2018	1,813	1,810.58	3.87	43.49				0.91	0.16	-13.52
	2/24/2018	1,908	1,905.36	3.82	42.65				0.08	-0.05	-0.88
	2/24/2018	2,002	1,999.14	4.05	55.72				0.98	0.24	13.90
	2/24/2018	2,097	2,093.91	3.95	43.58				0.90	-0.11	-12.78
	2/24/2018	2,192	2,188.68	4.12	41.21				0.25	0.18	-2.49
	2/24/2018	2,286	2,282.49	3.08	31.05				1.29	-1.11	-10.81
	2/24/2018	2,380	2,376.38	2.56	21.82				0.73	-0.55	-9.82
	2/24/2018	2,474	2,470.28	2.74	15.91				0.35	0.19	-6.29
	2/24/2018	2,569	2,565.16	2.91	15.48				0.18	0.18	-0.45
	2/25/2018	2,663	2,659.04	3.00	16.06				0.10	0.10	0.62
	2/25/2018	2,758	2,753.91	3.01	16.26				0.02	0.01	0.21
	2/25/2018	2,852	2,847.77	3.11	29.06				0.73	0.11	13.62
	2/25/2018	2,946	2,941.63	3.17	33.65				0.27	0.06	4.88
	2/25/2018	3,041	3,036.49	3.04	33.72				0.14	-0.14	0.07
	2/25/2018	3,135	3,130.37	2.93	32.98				0.12	-0.12	-0.79
	2/25/2018	3,229	3,224.25	2.73	29.14				0.29	-0.21	-4.09
	2/25/2018	3,323	3,318.14	2.93	28.33				0.22	0.21	-0.86



Directional Survey Data

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Survey Company	Date	MD (fOTH)	TVD (fOTH)	Incl (°)	Azm (°)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)
	2/25/2018	3,418	3,413.01	3.07	43.34				0.84	0.15	15.80
	2/25/2018	3,513	3,507.87	3.16	45.99				0.18	0.09	2.79
	2/25/2018	3,607	3,601.75	2.67	57.31				0.80	-0.52	12.04
	2/25/2018	3,702	3,696.65	2.58	55.74				0.12	-0.09	-1.65
	2/25/2018	3,797	3,791.56	2.38	60.69				0.31	-0.21	5.21
	2/25/2018	3,892	3,886.48	2.18	39.40				0.91	-0.21	-22.41
	2/25/2018	3,987	3,981.41	2.29	35.31				0.20	0.12	-4.31
	2/25/2018	4,082	4,076.34	2.06	33.00				0.26	-0.24	-2.43
	2/25/2018	4,177	4,171.28	2.06	35.52				0.10	0.00	2.65
	2/25/2018	4,272	4,266.23	1.67	42.56				0.48	-0.41	7.41
	2/25/2018	4,367	4,361.20	1.36	37.13				0.36	-0.33	-5.72
	2/25/2018	4,462	4,456.18	1.19	35.53				0.18	-0.18	-1.68
	2/25/2018	4,557	4,551.16	1.05	38.24				0.16	-0.15	2.85
	2/25/2018	4,652	4,646.15	0.61	48.91				0.49	-0.46	11.23
	2/25/2018	4,746	4,740.14	0.47	34.13				0.21	-0.15	-15.72
	2/25/2018	4,841	4,835.14	0.48	9.82				0.21	0.01	-25.59
	2/25/2018	4,936	4,930.14	0.52	313.65				0.50	0.04	-59.13
	2/26/2018	5,031	5,025.13	0.34	295.66				0.23	-0.19	-18.94
	2/26/2018	5,126	5,120.13	0.42	292.04				0.09	0.08	-3.81
	2/26/2018	5,221	5,215.13	0.42	333.72				0.31	0.00	43.87
	2/26/2018	5,316	5,310.13	0.45	17.92				0.35	0.03	46.53
	2/26/2018	5,410	5,404.13	0.06	77.85				0.45	-0.41	63.76
	2/26/2018	5,505	5,499.13	0.16	88.93				0.11	0.11	11.66
	2/26/2018	5,599	5,593.12	0.53	117.51				0.42	0.39	30.40
	2/26/2018	5,694	5,688.12	0.29	138.80				0.30	-0.25	22.41
	2/26/2018	5,789	5,783.12	0.56	115.24				0.33	0.28	-24.80
	2/26/2018	5,883	5,877.11	0.56	123.64				0.09	0.00	8.94
	2/26/2018	5,979	5,973.11	0.63	156.03				0.35	0.07	33.74
	2/26/2018	6,074	6,068.10	0.50	191.11				0.38	-0.14	36.93
	2/26/2018	6,169	6,163.10	0.68	279.87				0.88	0.19	93.43
	2/26/2018	6,264	6,258.09	0.98	282.59				0.32	0.32	2.86
	2/26/2018	6,359	6,353.07	1.39	276.97				0.45	0.43	-5.92
	2/26/2018	6,454	6,448.05	0.86	237.95				0.95	-0.56	-41.07
	2/26/2018	6,548	6,542.03	1.67	211.08				1.05	0.86	-28.59
	2/26/2018	6,643	6,636.97	2.58	183.08				1.43	0.96	-29.47
	2/28/2018	6,738	6,731.88	2.24	166.91				0.80	-0.36	-17.02
	2/28/2018	6,832	6,825.81	2.18	154.84				0.50	-0.06	-12.84
	3/1/2018	6,927	6,920.77	1.09	144.48				1.18	-1.15	-10.91
	3/1/2018	7,021	7,014.77	0.83	30.13				1.72	-0.28	-121.65
	3/1/2018	7,116	7,109.76	0.99	39.91				0.23	0.17	10.29
	3/1/2018	7,211	7,204.75	0.61	69.92				0.58	-0.40	31.59
	3/1/2018	7,306	7,299.74	0.75	302.19				1.29	0.15	-134.45
	3/1/2018	7,401	7,394.72	1.68	289.84				1.01	0.98	-13.00



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	3/2/2018	7,495	7,488.68	1.64	303.16				0.41	-0.04	14.17
	3/2/2018	7,590	7,583.64	1.64	316.50				0.40	0.00	14.04
	3/2/2018	7,685	7,678.61	1.50	330.77				0.44	-0.15	15.02
	3/2/2018	7,780	7,773.57	1.70	336.34				0.27	0.21	5.86
	3/2/2018	7,875	7,868.53	1.70	349.96				0.42	0.00	14.34
	3/2/2018	7,969	7,962.49	1.77	346.09				0.15	0.07	-4.12
	3/2/2018	8,064	8,057.45	1.55	326.83				0.63	-0.23	-20.27
	3/2/2018	8,159	8,152.40	1.95	310.04				0.68	0.42	-17.67
	3/3/2018	8,254	8,247.35	1.89	298.47				0.41	-0.06	-12.18
	3/3/2018	8,349	8,342.31	1.32	283.68				0.74	-0.60	-15.57
	3/3/2018	8,443	8,436.30	0.84	269.79				0.58	-0.51	-14.78
	3/3/2018	8,538	8,531.28	1.13	258.34				0.37	0.31	-12.05
	3/3/2018	8,632	8,625.27	0.98	255.53				0.17	-0.16	-2.99
	3/3/2018	8,727	8,720.25	0.94	273.48				0.32	-0.04	18.89
	3/3/2018	8,822	8,815.24	0.98	260.26				0.24	0.04	-13.92
	3/4/2018	8,916	8,909.23	0.91	275.21				0.27	-0.07	15.90
	3/4/2018	9,011	9,004.22	0.87	254.10				0.35	-0.04	-22.22
	3/4/2018	9,105	9,098.21	0.77	269.20				0.25	-0.11	16.06
	3/4/2018	9,199	9,192.20	0.87	270.38				0.11	0.11	1.26
	3/4/2018	9,276	9,269.18	1.16	267.61				0.38	0.38	-3.60
	7/16/2018	9,498	9,491.08	2.40	217.43				0.85	0.56	-22.60
	7/16/2018	9,592	9,585.01	2.18	218.47				0.24	-0.23	1.11
	7/16/2018	9,687	9,679.94	2.17	226.81				0.33	-0.01	8.78
	7/16/2018	9,734	9,726.87	4.22	208.76				4.81	4.36	-38.40
	7/16/2018	9,782	9,774.69	5.60	200.85				3.20	2.88	-16.48
	7/16/2018	9,829	9,821.40	7.21	187.53				4.64	3.43	-28.34
	7/18/2018	9,906	9,897.45	10.78	174.26				5.33	4.64	-17.23
	7/18/2018	9,938	9,928.55	16.24	175.79				17.10	17.06	4.78
	7/18/2018	9,969	9,957.86	21.65	177.86				17.58	17.45	6.68
	7/18/2018	10,001	9,987.00	27.07	178.21				16.94	16.94	1.09
	7/18/2018	10,032	10,014.22	30.11	178.17				9.81	9.81	-0.13
	7/18/2018	10,064	10,041.53	32.69	180.85				9.17	8.06	8.38
	7/18/2018	10,095	10,067.08	36.26	179.44				11.80	11.52	-4.55
	7/18/2018	10,127	10,092.24	40.06	179.53				11.88	11.88	0.28
	7/18/2018	10,159	10,116.04	43.81	180.45				11.87	11.72	2.87
	7/18/2018	10,190	10,137.55	48.28	181.24				14.54	14.42	2.55
	7/18/2018	10,222	10,158.30	50.86	182.48				8.58	8.06	3.87
	7/19/2018	10,254	10,177.49	55.45	181.60				14.51	14.34	-2.75
	7/19/2018	10,349	10,221.61	69.07	177.53				14.83	14.34	-4.28
	7/19/2018	10,380	10,232.37	70.34	177.26				4.18	4.10	-0.87
	7/19/2018	10,412	10,242.62	72.28	176.85				6.18	6.06	-1.28
	7/20/2018	10,476	10,260.15	75.93	176.89				5.70	5.70	0.06
	7/20/2018	10,507	10,267.10	78.15	176.32				7.38	7.16	-1.84



Directional Survey Data

Survey Data											
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	7/20/2018	10,539	10,273.39	79.18	176.45				3.24	3.22	0.41
	7/20/2018	10,571	10,279.04	80.48	176.63				4.10	4.06	0.56
	7/20/2018	10,602	10,283.68	82.31	177.29				6.27	5.90	2.13
	7/20/2018	10,633	10,287.25	84.43	177.74				6.99	6.84	1.45
	7/20/2018	10,665	10,290.16	85.14	179.17				4.97	2.22	4.47
	7/21/2018	10,697	10,292.44	86.70	179.79				5.24	4.88	1.94
	7/21/2018	10,728	10,294.05	87.33	180.00				2.14	2.03	0.68
	7/21/2018	10,823	10,295.16	91.34	180.41				4.24	4.22	0.43
	7/21/2018	10,918	10,292.20	92.23	180.23				0.96	0.94	-0.19
	7/21/2018	11,012	10,289.47	91.10	179.14				1.67	-1.20	-1.16
	7/21/2018	11,107	10,288.47	90.10	179.39				1.09	-1.05	0.26
	7/21/2018	11,202	10,289.86	88.22	178.95				2.03	-1.98	-0.46
	7/21/2018	11,297	10,293.01	87.98	177.30				1.75	-0.25	-1.74
	7/21/2018	11,391	10,295.72	88.72	177.07				0.82	0.79	-0.24
	7/22/2018	11,581	10,297.65	90.12	182.31				2.85	0.74	2.76
	7/22/2018	11,676	10,297.25	90.36	182.21				0.27	0.25	-0.11
	7/22/2018	11,770	10,294.45	93.05	184.45				3.72	2.86	2.38
	7/22/2018	11,865	10,291.18	90.90	183.97				2.32	-2.26	-0.51
	7/22/2018	11,960	10,292.53	87.47	183.09				3.73	-3.61	-0.93
	7/22/2018	12,055	10,297.45	86.59	182.65				1.04	-0.93	-0.46
	7/22/2018	12,149	10,301.90	87.98	181.61				1.85	1.48	-1.11
	7/22/2018	12,244	10,304.40	89.01	182.13				1.21	1.08	0.55
	7/22/2018	12,339	10,305.15	90.08	181.65				1.23	1.13	-0.51
	7/22/2018	12,434	10,303.97	91.34	181.43				1.35	1.33	-0.23
	7/23/2018	12,624	10,304.90	88.10	179.12				2.09	-1.71	-1.22
	7/23/2018	12,719	10,304.92	91.88	181.27				4.58	3.98	2.26
	7/23/2018	12,814	10,305.22	87.76	180.41				4.43	-4.34	-0.91
	7/23/2018	12,909	10,306.47	90.73	180.98				3.18	3.13	0.60
	7/23/2018	13,004	10,303.78	92.51	180.01				2.13	1.87	-1.02
	7/23/2018	13,099	10,301.35	90.43	181.29				2.57	-2.19	1.35
	7/23/2018	13,194	10,300.86	90.16	181.33				0.29	-0.28	0.04
	7/23/2018	13,288	10,302.24	88.16	180.34				2.37	-2.13	-1.05
	7/23/2018	13,383	10,305.32	88.12	178.70				1.73	-0.04	-1.73
	7/24/2018	13,492	10,309.01	88.00	178.00				0.65	-0.11	-0.64



Directional Survey Data

Well Name HH CE 35 2 FED 006 2H	Lease HH CE 35 2 Fed 006	Field Name Purple Sage	Business Unit Mid-Continent	Latitude (°) 32° 5' 8.365" N	Longitude (°) 104° 9' 11.758" W	Surface UWI 3001544346	Surface ChevNo PM0785
Wellbore Name Sidetrack	Wellbore UWI 300154434601	Wellbore ChevNo PM0785-01	Directional Type Horizontal	Min Kick Off Depth (ftOTH) 11,700.0	Min Kick Off Depth (TVD) (ftOTH) 10,295.5	Total Depth of Wellbore (ftOTH) 17,865.00	Date TD Reached (wellbore)

Bottom Hole Location							
Northing (Y) (ft)	Easting (X) (ft)	UTM Grid Zone	Latitude (°)	Longitude (°)	Closure Direction (°) 179.61		

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

Survey Company	Date	MD (ftOTH)	TVD (ftOTH)	Incl (°)	Azm (°)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)
Phoenix Directional	7/30/2018	11,772	10,293.75	91.76	188.41	1,560.04	-1,559.36	105.96	7.88	1.00	7.82
Phoenix Directional	7/30/2018	11,804	10,292.41	93.02	191.71	1,591.48	-1,590.83	100.37	11.03	3.94	10.31
Phoenix Directional	7/30/2018	11,835	10,291.28	91.18	193.88	1,621.64	-1,621.04	93.51	9.17	-5.94	7.00
Phoenix Directional	7/30/2018	11,867	10,291.59	87.72	194.48	1,652.60	-1,652.06	85.67	10.97	-10.81	1.87
Phoenix Directional	7/30/2018	11,899	10,293.68	84.76	195.17	1,683.41	-1,682.92	77.51	9.50	-9.25	2.16
Phoenix Directional	7/30/2018	11,930	10,296.50	84.80	195.23	1,713.15	-1,712.71	69.41	0.23	0.13	0.19
Phoenix Directional	7/30/2018	11,962	10,299.44	84.66	193.29	1,743.97	-1,743.59	61.56	6.05	-0.44	-6.06
Phoenix Directional	7/30/2018	12,057	10,305.75	87.73	190.43	1,836.59	-1,836.34	42.09	4.41	3.23	-3.01
Phoenix Directional	7/30/2018	12,152	10,309.04	88.30	189.24	1,930.02	-1,929.89	25.87	1.39	0.60	-1.25
Phoenix Directional	7/30/2018	12,247	10,310.53	89.90	186.69	2,023.99	-2,023.95	12.71	3.17	1.68	-2.68
Phoenix Directional	7/30/2018	12,341	10,308.33	92.78	189.42	2,116.93	-2,116.98	-0.45	4.22	3.06	2.90
Phoenix Directional	7/30/2018	12,436	10,305.42	90.73	181.20	2,211.33	-2,211.44	-9.23	8.91	-2.16	-8.65
Phoenix Directional	7/30/2018	12,532	10,303.97	91.00	174.04	2,307.19	-2,307.28	-5.24	7.46	0.28	-7.46
Phoenix Directional	7/30/2018	12,626	10,302.12	91.25	174.21	2,400.75	-2,400.77	4.38	0.32	0.27	0.18
Phoenix Directional	7/30/2018	12,721	10,300.90	90.22	174.30	2,495.32	-2,495.29	13.88	1.09	-1.08	0.09
Phoenix Directional	7/30/2018	12,816	10,299.92	90.97	176.15	2,590.03	-2,589.95	21.79	2.10	0.79	1.95
Phoenix Directional	7/30/2018	12,911	10,301.03	87.69	176.10	2,684.84	-2,684.71	28.21	3.45	-3.45	-0.05
Phoenix Directional	7/30/2018	13,006	10,303.50	89.33	176.67	2,779.65	-2,779.48	34.20	1.83	1.73	0.60
Phoenix Directional	7/30/2018	13,101	10,302.22	92.21	180.05	2,874.60	-2,874.41	36.92	4.67	3.03	3.56
Phoenix Directional	7/30/2018	13,196	10,300.26	90.16	178.61	2,969.57	-2,969.38	38.03	2.64	-2.16	-1.52
Phoenix Directional	7/30/2018	13,290	10,300.47	89.58	178.44	3,063.55	-3,063.35	40.45	0.64	-0.62	-0.18
Phoenix Directional	7/30/2018	13,385	10,302.51	87.96	176.01	3,158.44	-3,158.20	45.04	3.07	-1.71	-2.56
Phoenix Directional	7/30/2018	13,480	10,304.86	89.21	177.49	3,253.29	-3,253.02	50.43	2.04	1.32	1.56
Phoenix Directional	7/30/2018	13,575	10,304.26	91.51	179.36	3,348.25	-3,347.97	53.04	3.12	2.42	1.97
Phoenix Directional	7/30/2018	13,670	10,303.14	89.84	173.17	3,443.03	-3,442.71	59.23	6.75	-1.76	-6.52
Phoenix Directional	7/30/2018	13,765	10,301.27	92.41	176.58	3,537.67	-3,537.29	67.71	4.49	2.71	3.59
Phoenix Directional	7/30/2018	13,861	10,299.08	90.21	170.91	3,633.10	-3,632.65	78.16	6.33	-2.29	-5.91
Phoenix Directional	7/30/2018	13,955	10,299.27	89.55	171.84	3,726.13	-3,725.58	92.26	1.21	-0.70	0.99
Phoenix Directional	7/30/2018	14,050	10,302.25	86.86	171.53	3,820.16	-3,819.53	105.99	2.85	-2.83	-0.33
Phoenix Directional	7/30/2018	14,145	10,304.75	90.12	174.61	3,914.49	-3,913.78	117.44	4.72	3.43	3.24
Phoenix Directional	7/30/2018	14,239	10,304.72	89.92	171.14	4,007.83	-4,007.04	129.10	3.70	-0.21	-3.69
Phoenix Directional	7/30/2018	14,332	10,306.48	87.91	171.31	4,099.81	-4,098.93	143.29	2.17	-2.16	0.18
Phoenix Directional	7/30/2018	14,427	10,310.14	87.68	176.96	4,194.27	-4,193.32	152.98	5.95	-0.24	5.95
Phoenix Directional	7/30/2018	14,522	10,309.57	93.01	183.01	4,289.19	-4,288.24	153.01	8.49	5.61	6.37
Phoenix Directional	7/30/2018	14,617	10,303.77	93.98	180.67	4,383.93	-4,383.01	149.96	2.66	1.02	-2.46



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)
Phoenix Directional	7/30/2018	14,712	10,298.90	91.90	182.24	4,478.75	-4,477.85	147.55	2.74	-2.19	1.65
Phoenix Directional	7/30/2018	14,807	10,298.54	88.53	184.21	4,573.54	-4,572.68	142.21	4.11	-3.55	2.07
Phoenix Directional	7/30/2018	14,902	10,299.75	90.02	185.23	4,668.15	-4,667.34	134.39	1.90	1.57	1.07
Phoenix Directional	7/30/2018	14,996	10,299.47	90.32	186.15	4,761.62	-4,760.88	125.07	1.03	0.32	0.98
Phoenix Directional	7/30/2018	15,091	10,299.43	89.73	182.85	4,856.26	-4,855.57	117.62	3.53	-0.62	-3.47
Phoenix Directional	7/30/2018	15,186	10,300.80	88.61	181.07	4,951.17	-4,950.50	114.37	2.21	-1.18	-1.87
Phoenix Directional	7/30/2018	15,282	10,302.54	89.32	181.49	5,047.11	-5,046.46	112.23	0.86	0.74	0.44
Phoenix Directional	7/30/2018	15,377	10,299.74	94.06	182.36	5,141.96	-5,141.34	109.04	5.07	4.99	0.92
Phoenix Directional	7/30/2018	15,471	10,293.64	93.38	181.28	5,235.69	-5,235.09	106.06	1.36	-0.72	-1.15
Phoenix Directional	7/30/2018	15,566	10,289.10	92.10	180.98	5,330.55	-5,329.96	104.19	1.38	-1.35	-0.32
Phoenix Directional	7/30/2018	15,661	10,285.93	91.72	180.52	5,425.48	-5,424.90	102.95	0.63	-0.40	-0.48
Phoenix Directional	7/30/2018	15,756	10,286.31	87.82	176.00	5,520.41	-5,519.81	105.83	6.28	-4.11	-4.76
Phoenix Directional	7/30/2018	15,851	10,287.22	91.08	177.56	5,615.27	-5,614.64	111.16	3.80	3.43	1.64
Phoenix Directional	7/30/2018	15,946	10,286.77	89.47	174.25	5,710.05	-5,709.38	117.95	3.87	-1.69	-3.48
Phoenix Directional	7/30/2018	16,042	10,285.18	92.42	175.88	5,805.73	-5,805.00	126.20	3.51	3.07	1.70
Phoenix Directional	7/30/2018	16,136	10,282.71	90.59	178.70	5,899.60	-5,898.85	130.65	3.58	-1.95	3.00
Phoenix Directional	7/30/2018	16,232	10,283.74	88.18	179.03	5,995.58	-5,994.82	132.55	2.53	-2.51	0.34
Phoenix Directional	7/30/2018	16,327	10,284.49	90.92	180.54	6,090.57	-6,089.80	132.90	3.29	2.88	1.59
Phoenix Directional	7/30/2018	16,422	10,282.61	91.35	178.99	6,185.54	-6,184.78	133.29	1.69	0.45	-1.63
Phoenix Directional	7/30/2018	16,517	10,279.73	92.12	178.38	6,280.49	-6,279.71	135.47	1.03	0.81	-0.64
Phoenix Directional	7/30/2018	16,611	10,277.93	90.08	180.65	6,374.46	-6,373.68	136.27	3.25	-2.17	2.41
Phoenix Directional	7/30/2018	16,706	10,276.15	92.07	180.63	6,469.42	-6,468.65	135.21	2.09	2.09	-0.02
Phoenix Directional	7/30/2018	16,801	10,273.14	91.55	181.96	6,564.33	-6,563.58	133.06	1.50	-0.55	1.40
Phoenix Directional	7/30/2018	16,896	10,273.72	87.75	181.36	6,659.25	-6,658.52	130.31	4.05	-4.00	-0.63
Phoenix Directional	7/30/2018	16,991	10,274.94	90.78	181.79	6,754.18	-6,753.46	127.70	3.22	3.19	0.45
Phoenix Directional	7/30/2018	17,086	10,275.23	88.88	181.16	6,849.12	-6,848.43	125.25	2.11	-2.00	-0.66
Phoenix Directional	7/30/2018	17,180	10,277.99	87.75	179.90	6,943.06	-6,942.38	124.38	1.80	-1.20	-1.34
Phoenix Directional	7/30/2018	17,275	10,282.33	87.01	177.68	7,037.95	-7,037.25	126.39	2.46	-0.78	-2.34
Phoenix Directional	7/30/2018	17,371	10,286.33	88.22	177.97	7,133.82	-7,133.10	130.03	1.30	1.26	0.30
Phoenix Directional	7/30/2018	17,465	10,288.40	89.25	178.20	7,227.76	-7,227.02	133.17	1.12	1.10	0.24
Phoenix Directional	7/30/2018	17,560	10,288.97	90.07	178.15	7,322.73	-7,321.97	136.19	0.86	0.86	-0.05
Phoenix Directional	7/30/2018	17,655	10,287.78	91.36	177.18	7,417.66	-7,416.88	140.06	1.70	1.36	-1.02
Phoenix Directional	7/30/2018	17,750	10,286.07	90.70	175.23	7,512.47	-7,511.65	146.35	2.17	-0.69	-2.05
Phoenix Directional	7/30/2018	17,813	10,285.04	91.18	174.19	7,575.23	-7,574.37	152.16	1.82	0.76	-1.65
Phoenix Directional	7/30/2018	17,865	10,283.97	91.18	174.19	7,626.99	-7,626.10	157.42	0.00	0.00	0.00