

RECEIVED

Intent ☐ As Drilled ☒

JUN 27 2019

API #
30-015-44354

Operator Name:

Chevron USA Inc. (4323)

Property Name:

CICADA UNIT

Well Number

17H

DISTRICT II ARTESIA O.C.D.

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	3	26S	27E		214	SOUTH	833	WEST	EDDY
Latitude					Longitude			NAD	
32.064595					-104.184270			NAD83/86	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	10	26S	27E		374	NORTH	1,257	WEST	EDDY
Latitude					Longitude			NAD	
32.062960					-104.182884			NAD83/86	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	15	26S	27E		409	SOUTH	1,243	WEST	EDDY
Latitude					Longitude			NAD	
32.036013					-104.182491			NAD83/86	

Is this well the defining well for the Horizontal Spacing Unit?

N

Is this well an infill well?

Y

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #
30-015-44367

Operator Name:

Chevron USA Inc. (4323)

Property Name:

CICADA UNIT

Well Number

13H

KZ 06/29/2018

Well Name: HH SO 10 15 FED 002 2H

Latitude (°): 32° 3' 52.103" N

Directional Typ: Horizontal

Bottom Hole Location

Northing (Y) (ft):

Lease: HH SO 10 15 Fed 002

Longitude (°): 104° 11' 1.597" W

Min KO Depth (ftKB):

Easting (X) (ft):

UTM Grid Zone:

Latitude (°):

Field Name: Purple Sage

API: 3001544354

Min KO Depth (TVD) (ftKB):

Longitude (°):

Wellbore ChevNo: PM0788

Total Depth (ftKB): 19,656.00

TD Date: 2018/06/15

Closure Dir (°): 10,540.00

Directional Surveys

Des: MWD

Planned?: N

Definitive?: N

Note Correction:

Survey Data

Survey Company	Date	MD (ftKB)	TVD (ftKB)	Incl (°)	Azm (°)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)
Phoenix Directional	4/21/2018	185	185	0.41	20.7	0.12	0.62	0.23	0.22	0.22	11.19
Phoenix Directional	4/21/2018	277	276.99	1.04	126.39	0.93	0.43	1.02	1.32	0.68	114.88
Phoenix Directional	4/21/2018	370	369.98	1.16	153.54	2.25	-0.91	2.12	0.57	0.13	29.19
Phoenix Directional	4/21/2018	439	438.96	1.42	147	3.25	-2.25	2.9	0.43	0.38	-9.48
Phoenix Directional	4/21/2018	587	586.87	2.56	103.92	7.79	-4.59	7.11	1.22	0.77	-29.11
Phoenix Directional	4/21/2018	679	678.66	5.18	86.5	13.88	-4.83	13.25	3.09	2.85	-18.93
Phoenix Directional	4/21/2018	771	770.11	7.3	88.01	23.64	-4.37	23.23	2.31	2.3	1.64
Phoenix Directional	4/21/2018	864	862.16	9.08	94.31	36.72	-4.72	36.46	2.14	1.91	6.77
Phoenix Directional	4/21/2018	1,053	1,048.88	8.73	93.81	65.82	-6.79	65.64	0.19	-0.19	-0.26
Phoenix Directional	4/21/2018	1,242	1,235.83	8.2	99.95	93.56	-10.07	93.23	0.55	-0.28	3.25
Phoenix Directional	4/21/2018	1,431	1,422.53	9.7	89.62	122.71	-12.3	122.43	1.16	0.79	-5.47
Phoenix Directional	4/21/2018	1,621	1,609.76	9.89	91.85	154.6	-12.72	154.74	0.22	0.1	1.17
Phoenix Directional	4/21/2018	1,810	1,796.05	9.56	94.15	186.28	-14.38	186.62	0.27	-0.17	1.22
Phoenix Directional	4/21/2018	2,000	1,983.25	10.13	99.73	218.69	-18.34	218.83	0.58	0.3	2.94
Phoenix Directional	4/21/2018	2,189	2,169.37	9.92	101.54	251.58	-24.41	251.16	0.2	-0.11	0.96
Phoenix Directional	4/21/2018	2,251	2,230.44	9.92	101.54	262.26	-26.55	261.62	0	0	0
Phoenix Directional	4/21/2018	2,378	2,355.74	8.83	100.42	282.94	-30.5	281.93	0.87	-0.86	-0.88
Phoenix Directional	4/21/2018	2,568	2,543.37	9.3	94.79	312.81	-34.42	311.57	0.53	0.25	-2.96
Phoenix Directional	4/21/2018	2,757	2,729.76	9.77	90.98	343.86	-35.97	342.82	0.42	0.25	-2.02
Phoenix Directional	4/21/2018	2,947	2,917.17	9.19	90.24	374.74	-36.31	374.11	0.31	-0.31	-0.39
Phoenix Directional	4/21/2018	3,042	3,011.14	7.68	90.05	388.47	-36.34	388.05	1.59	-1.59	-0.2
Phoenix Directional	4/23/2018	3,136	3,104.40	6.66	87.32	399.97	-36.09	399.78	1.14	-1.09	-2.9
Phoenix Directional	4/24/2018	3,231	3,198.93	4.69	93.7	409.21	-36.09	409.16	2.17	-2.07	6.72
Phoenix Directional	4/24/2018	3,325	3,292.75	2.38	89.32	414.94	-36.31	414.94	2.47	-2.46	-4.66
Phoenix Directional	4/24/2018	3,420	3,387.71	0.6	32.38	417.07	-35.87	417.18	2.22	-1.87	-59.94
Phoenix Directional	4/24/2018	3,610	3,577.70	0.95	345.8	416.81	-33.5	417.33	0.36	0.18	-24.52
Phoenix Directional	4/24/2018	3,799	3,766.67	1.02	348.88	415.56	-30.33	416.62	0.05	0.04	1.63
Phoenix Directional	4/24/2018	3,988	3,955.65	0.72	10.87	414.97	-27.51	416.52	0.23	-0.16	11.63
Phoenix Directional	4/24/2018	4,178	4,145.64	0.45	342.66	414.64	-25.63	416.52	0.2	-0.14	-14.85
Phoenix Directional	4/24/2018	4,367	4,334.63	0.26	322.24	413.99	-24.58	416.04	0.12	-0.1	-10.8
Phoenix Directional	4/24/2018	4,556	4,523.63	0.04	324.01	413.62	-24.19	415.74	0.12	-0.12	0.94
Phoenix Directional	4/24/2018	4,745	4,712.63	0.34	298.55	413.04	-23.87	415.21	0.16	0.16	-13.47
Phoenix Directional	4/24/2018	4,934	4,901.63	0.41	265.72	411.86	-23.65	414.04	0.12	0.04	-17.37
Phoenix Directional	4/24/2018	5,123	5,090.62	0.35	287.2	410.63	-23.53	412.81	0.08	-0.03	11.37
Phoenix Directional	4/25/2018	5,313	5,280.62	0.24	302.46	409.68	-23.15	411.92	0.07	-0.06	8.03
Phoenix Directional	4/25/2018	5,501	5,468.62	0.14	297.32	409.1	-22.83	411.39	0.05	-0.05	-2.73
Phoenix Directional	4/25/2018	5,690	5,657.62	0.26	229.9	408.61	-23	410.85	0.13	0.06	-35.67
Phoenix Directional	4/25/2018	5,879	5,846.61	0.92	234.55	407.27	-24.16	409.29	0.35	0.35	2.46
Phoenix Directional	4/25/2018	6,069	6,036.58	1.05	263.99	404.52	-25.22	406.32	0.27	0.07	15.49
Phoenix Directional	4/26/2018	6,258	6,225.55	1.04	287.79	401.16	-24.88	402.96	0.23	-0.01	12.59
Phoenix Directional	4/26/2018	6,447	6,414.52	1.1	264.82	397.71	-24.52	399.52	0.23	0.03	-12.15
Phoenix Directional	4/26/2018	6,637	6,604.46	2.02	192.01	395.83	-27.96	397.01	1.05	0.48	-38.32
Phoenix Directional	4/26/2018	6,826	6,793.36	1.7	189.42	395.74	-33.98	395.85	0.18	-0.17	-1.37
Phoenix Directional	4/26/2018	7,015	6,982.31	1.02	209.91	395.2	-38.21	394.56	0.44	-0.36	10.84
Phoenix Directional	4/27/2018	7,205	7,172.28	0.79	200.74	394.38	-40.9	393.25	0.14	-0.12	-4.83
Phoenix Directional	4/27/2018	7,394	7,361.27	0.7	190.19	394.13	-43.25	392.58	0.09	-0.05	-5.58
Phoenix Directional	4/27/2018	7,583	7,550.25	0.97	160.66	394.91	-45.9	392.91	0.26	0.14	-15.62
Phoenix Directional	4/27/2018	7,772	7,739.20	1.74	105.03	398.55	-48.15	396.21	0.76	0.41	-29.43
Phoenix Directional	4/28/2018	7,961	7,928.05	2.87	92.95	406.11	-49.14	403.71	0.65	0.6	-6.39
Phoenix Directional	4/28/2018	8,150	8,116.91	1.48	95.34	413.24	-49.61	410.86	0.74	-0.74	1.26
Phoenix Directional	4/28/2018	8,339	8,305.87	0.89	93.28	417.13	-49.92	414.76	0.31	-0.31	-1.09
Phoenix Directional	4/28/2018	8,413	8,379.86	0.98	108.23	418.32	-50.15	415.93	0.35	0.12	20.2
Phoenix Directional	5/31/2018	8,443	8,409.85	1	40.25	418.71	-50.03	416.35	3.69	0.07	-226.6
Phoenix Directional	5/31/2018	8,538	8,504.84	1.11	128.19	419.94	-49.97	417.61	1.54	0.12	92.57
Phoenix Directional	5/31/2018	8,632	8,598.82	1.31	134.9	421.62	-51.29	419.08	0.26	0.21	7.14
Phoenix Directional	5/31/2018	8,727	8,693.80	0.92	176.85	422.69	-52.82	419.89	0.92	-0.41	44.16
Phoenix Directional	5/31/2018	8,790	8,756.79	1.59	197.12	422.69	-54.16	419.66	1.26	1.06	32.17
Phoenix Directional	5/31/2018	8,822	8,788.75	3.66	182.99	422.76	-55.6	419.48	6.73	6.47	-44.16
Phoenix Directional	6/1/2018	8,869	8,835.49	8.19	170.19	424.08	-60.4	419.97	9.98	9.64	-27.23
Phoenix Directional	6/1/2018	8,916	8,881.76	11.99	166.88	427.13	-68.46	421.65	8.18	8.09	-7.04
Phoenix Directional	6/1/2018	8,963	8,927.25	16.94	170.72	431.31	-79.98	423.87	10.72	10.53	8.17
Phoenix Directional	6/1/2018	9,011	8,972.41	22.62	175.71	435.91	-96.1	425.69	12.33	11.83	10.4
Phoenix Directional	6/1/2018	9,058	9,014.78	28.58	182.3	439.65	-116.37	425.91	14.04	12.68	14.02
Phoenix Directional	6/1/2018	9,106	9,056.07	32.71	184.11	442.52	-140.79	424.52	8.82	8.6	3.77
Phoenix Directional	6/1/2018	9,153	9,094.91	35.84	181.18	445.93	-167.22	423.33	7.53	6.66	-6.23
Phoenix Directional	6/1/2018	9,201	9,132.77	39.98	177.52	451.42	-196.69	423.7	9.81	8.62	-7.63
Phoenix Directional	6/1/2018	9,248	9,166.78	47.25	178.48	458.14	-229.07	424.82	15.53	15.47	2.04
Phoenix Directional	6/1/2018	9,295	9,196.88	53.07	178.59	465.31	-265.13	425.74	12.38	12.38	0.23
Phoenix Directional	6/1/2018	9,342	9,232.57	57.7	180.09	472.45	-303.8	426.17	10.19	9.85	3.19
Phoenix Directional	6/1/2018	9,390	9,247.88	61.44	178.82	480.03	-345.18	426.57	8.12	7.79	-2.65
Phoenix Directional	6/1/2018	9,437	9,268.56	66.34	178.08	488.48	-387.35	427.72	10.52	10.43	-1.57
Phoenix Directional	6/1/2018	9,484	9,286.15	69.68	179.11	497.09	-430.91	428.78	7.39	7.11	2.19
Phoenix Directional	6/1/2018	9,531	9,301.50	72.19	179.73	505.25	-475.33	429.23	5.48	5.34	1.32
Phoenix Directional	6/2/2018	9,579	9,314.53	76.31	179.66	513.51	-521.51	429.48	8.58	8.58	-0.15
Phoenix Directional	6/2/2018	9,626	9,323.67	81.25	179.25	521.95	-567.6	429.92	10.55	10.51	-0.87
Phoenix Directional	6/2/2018	9,674	9,330.26	82.98	177.83	531.39	-615.13	431.13	4.65	3.6	-2.96
Phoenix Directional	6/2/2018	9,721	9,334.48	86.7	176.72	541.7	-661.87	433.35	8.26	7.91	-2.36
Phoenix Directional	6/2/2018	9,769	9,336.78	87.82	177.05	552.58	-709.75	435.96	2.43	2.33	0.69
Phoenix Directional	6/2/2018	9,863	9,339.75	88.56	178	572.88	-803.61	440.02	1.28	0.79	1.01
Phoenix Directional	6/2/2018	9,958	9,342.73	87.84	177.32	593.17	-898.48	443.89	1.04	-0.76	-0.72

Phoenix Directional	6/2/2018	10,053	9,345.19	89.19	179.84	611.97	-993.41	446.25	3.01	1.42	2.65
Phoenix Directional	6/2/2018	10,147	9,346.90	88.73	179.08	629.16	-1,087.39	447.13	0.94	-0.49	-0.81
Phoenix Directional	6/2/2018	10,241	9,349.43	88.19	178.68	647.28	-1,181.34	448.97	0.71	-0.57	-0.43
Phoenix Directional	6/2/2018	10,336	9,353.92	86.39	176.21	667.91	-1,276.13	453.2	3.21	-1.89	-2.6
Phoenix Directional	6/2/2018	10,431	9,357.12	89.75	179.47	687.9	-1,370.98	456.77	4.93	3.54	3.43
Phoenix Directional	6/2/2018	10,526	9,359.87	86.93	178.35	706.16	-1,465.91	458.58	3.19	-2.97	-1.18
Phoenix Directional	6/3/2018	10,621	9,362.65	89.72	179.46	724.43	-1,560.84	460.39	3.16	2.94	1.17
Phoenix Directional	6/3/2018	10,715	9,363.33	89.45	178.78	742.18	-1,654.83	461.83	0.78	-0.29	-0.72
Phoenix Directional	6/3/2018	10,810	9,364.93	88.61	178.44	760.93	-1,749.79	464.14	0.95	-0.88	-0.36
Phoenix Directional	6/3/2018	10,904	9,368.12	87.51	178.16	779.98	-1,843.69	466.93	1.21	-1.17	-0.3
Phoenix Directional	6/3/2018	10,999	9,372.87	86.76	177.58	799.92	-1,938.51	470.45	1	-0.79	-0.61
Phoenix Directional	6/3/2018	11,094	9,379.91	84.74	178.81	819.3	-2,033.19	473.44	2.49	-2.13	1.29
Phoenix Directional	6/3/2018	11,188	9,386.06	87.75	179.89	836.63	-2,126.97	474.5	3.4	3.2	1.15
Phoenix Directional	6/3/2018	11,283	9,390.59	86.78	179.26	853.8	-2,221.86	475.2	1.22	-1.02	-0.66
Phoenix Directional	6/4/2018	11,315	9,392.51	86.36	180.98	859.29	-2,253.80	475.14	5.52	-1.31	5.38
Phoenix Directional	6/4/2018	11,410	9,396.70	88.58	178.84	875.91	-2,348.69	475.29	3.24	2.34	-2.25
Phoenix Directional	6/5/2018	11,505	9,399.05	88.59	179.34	893.89	-2,443.65	476.79	0.53	0.01	0.53
Phoenix Directional	6/5/2018	11,599	9,401.98	87.84	178.62	911.85	-2,537.59	478.47	1.11	-0.8	-0.77
Phoenix Directional	6/5/2018	11,694	9,405.66	87.72	178.73	930.49	-2,632.49	480.66	0.17	-0.13	0.12
Phoenix Directional	6/5/2018	11,786	9,409.51	87.48	178.28	948.81	-2,724.38	483.06	0.55	-0.26	-0.49
Phoenix Directional	6/5/2018	11,879	9,414.06	86.91	178.16	967.77	-2,817.23	485.95	0.63	-0.61	-0.13
Phoenix Directional	6/5/2018	11,972	9,419.54	86.34	178.13	986.84	-2,910.02	488.95	0.61	-0.61	-0.03
Phoenix Directional	6/5/2018	12,064	9,422.80	89.59	179.86	1,004.39	-3,001.93	490.56	4	3.53	1.88
Phoenix Directional	6/5/2018	12,157	9,423.15	89.98	180.66	1,020.12	-3,094.93	490.14	0.96	0.42	0.86
Phoenix Directional	6/5/2018	12,250	9,423.41	89.7	180.76	1,035.13	-3,187.92	488.99	0.32	-0.3	0.11
Phoenix Directional	6/5/2018	12,342	9,424.05	89.5	180.7	1,049.95	-3,279.91	487.82	0.23	-0.22	-0.07
Phoenix Directional	6/5/2018	12,437	9,424.96	89.41	179.98	1,065.89	-3,374.90	487.25	0.76	-0.09	-0.76
Phoenix Directional	6/5/2018	12,531	9,426.01	89.3	178.49	1,083.45	-3,468.88	488.51	1.59	-0.12	-1.59
Phoenix Directional	6/5/2018	12,626	9,427.20	89.27	179.13	1,101.88	-3,563.86	490.48	0.67	-0.03	0.67
Phoenix Directional	6/5/2018	12,721	9,428.28	89.93	179.15	1,131.09	-3,718.83	492.81	0.43	0.43	0.01
Phoenix Directional	6/5/2018	12,817	9,427.01	91.59	177.14	1,150.81	-3,814.77	495.91	2.72	1.73	-2.09
Phoenix Directional	6/5/2018	12,912	9,424.21	91.79	177.47	1,171.67	-3,909.62	500.38	0.41	0.21	0.35
Phoenix Directional	6/5/2018	13,067	9,421.96	90.92	177.03	1,192.63	-4,004.48	504.93	1.03	-0.92	-0.46
Phoenix Directional	6/5/2018	13,161	9,420.61	90.73	176.34	1,214.28	-4,098.32	510.37	0.76	-0.2	-0.73
Phoenix Directional	6/5/2018	13,256	9,417.53	92.98	177.69	1,235.61	-4,193.13	515.31	2.76	2.37	1.42
Phoenix Directional	6/5/2018	13,351	9,412.08	93.6	177.82	1,255.73	-4,287.90	519.03	0.67	0.65	0.14
Phoenix Directional	6/5/2018	13,445	9,406.01	93.81	178.22	1,275.20	-4,381.65	522.27	0.48	0.22	0.43
Phoenix Directional	6/5/2018	13,540	9,400.61	92.7	177.72	1,294.97	-4,476.43	525.63	1.28	-1.17	-0.53
Phoenix Directional	6/5/2018	13,635	9,397.58	90.96	177.66	1,315.21	-4,571.30	529.46	1.83	-1.83	-0.06
Phoenix Directional	6/5/2018	13,730	9,393.97	93.39	178.03	1,335.20	-4,666.16	533.03	2.59	2.56	0.39
Phoenix Directional	6/5/2018	13,824	9,389.38	92.21	176.58	1,355.83	-4,759.94	537.44	1.99	-1.26	-1.54
Phoenix Directional	6/5/2018	13,919	9,385.40	92.59	177.46	1,377.15	-4,854.73	542.38	1.01	0.4	0.93
Phoenix Directional	6/5/2018	14,108	9,375.94	93.15	177.25	1,418.47	-5,043.29	551.09	0.32	0.3	-0.11
Phoenix Directional	6/5/2018	14,203	9,371.27	92.48	176.24	1,440.23	-5,138.02	556.47	1.27	-0.71	-1.06
Phoenix Directional	6/5/2018	14,298	9,367.33	92.28	178.25	1,461.18	-5,232.82	561.04	2.12	-0.21	2.12
Phoenix Directional	6/5/2018	14,393	9,363.58	92.24	177.17	1,481.39	-5,327.67	564.83	1.14	-0.04	-1.14
Phoenix Directional	6/5/2018	14,488	9,359.87	92.24	178.95	1,501.03	-5,422.54	568.04	1.87	0	1.87
Phoenix Directional	6/5/2018	14,582	9,355.83	92.69	178.62	1,519.29	-5,516.43	570.03	0.59	0.48	-0.35
Phoenix Directional	6/5/2018	14,677	9,351.08	93.04	179.85	1,537.01	-5,611.30	571.3	1.34	0.37	1.29
Phoenix Directional	6/5/2018	14,772	9,346.77	92.16	179.15	1,554.31	-5,706.20	572.13	1.18	-0.93	-0.74
Phoenix Directional	6/5/2018	14,866	9,343.75	91.52	179.04	1,572.08	-5,800.14	573.61	0.69	-0.68	-0.12
Phoenix Directional	6/5/2018	14,961	9,341.55	91.13	178.9	1,590.25	-5,895.10	575.32	0.44	-0.41	-0.15
Phoenix Directional	6/5/2018	15,056	9,338.99	91.96	180.22	1,607.46	-5,990.06	576.05	1.64	0.87	1.39
Phoenix Directional	6/5/2018	15,150	9,335.70	92.05	179.57	1,623.94	-6,084.00	576.22	0.7	0.1	-0.69
Phoenix Directional	6/5/2018	15,245	9,332.69	91.58	180.61	1,640.28	-6,178.95	576.07	1.2	-0.49	1.09
Phoenix Directional	6/5/2018	15,339	9,327.67	91.45	181	1,670.63	-6,368.86	573.4	0.22	-0.07	0.21
Phoenix Directional	6/5/2018	15,435	9,325.49	91.21	180.8	1,685.50	-6,462.83	571.93	0.33	-0.26	-0.21
Phoenix Directional	6/5/2018	15,529	9,323.23	91.52	180.34	1,701.06	-6,557.79	570.98	0.58	0.33	-0.48
Phoenix Directional	6/5/2018	15,624	9,321.29	90.82	180.76	1,716.65	-6,652.77	570.07	0.86	-0.74	0.44
Phoenix Directional	6/5/2018	15,719	9,319.67	91.13	180.32	1,732.26	-6,747.75	569.18	0.57	0.33	-0.46
Phoenix Directional	6/5/2018	15,814	9,317.39	91.65	179.99	1,748.33	-6,841.72	568.92	0.66	0.55	-0.35
Phoenix Directional	6/5/2018	15,908	9,313.99	92.45	180.84	1,764.14	-6,936.66	568.23	1.23	0.84	0.89
Phoenix Directional	6/5/2018	16,003	9,310.05	92.3	180.79	1,779.29	-7,031.57	566.88	0.17	-0.16	-0.05
Phoenix Directional	6/5/2018	16,098	9,306.76	91.72	179.89	1,795.05	-7,125.51	566.33	1.14	-0.62	-0.96
Phoenix Directional	6/5/2018	16,192	9,303.81	91.84	180.21	1,811.46	-7,220.46	566.24	0.36	0.13	0.34
Phoenix Directional	6/5/2018	16,287	9,300.57	92.07	179.73	1,828.00	-7,315.40	566.29	0.56	0.24	-0.51
Phoenix Directional	6/5/2018	16,382	9,296.78	92.5	180.1	1,844.62	-7,410.33	566.43	0.6	0.45	0.39
Phoenix Directional	6/5/2018	16,477	9,292.19	93.09	180.49	1,860.45	-7,504.21	565.95	0.75	0.63	0.41
Phoenix Directional	6/9/2018	16,571	9,286.91	93.29	179.56	1,876.88	-7,599.07	565.91	1	0.21	-0.98
Phoenix Directional	6/9/2018	16,666	9,281.82	92.85	179.98	1,893.72	-7,693.93	566.29	0.64	-0.46	0.44
Phoenix Directional	6/9/2018	16,761	9,279.80	89.59	178.64	1,911.34	-7,788.89	567.44	3.71	-3.43	-1.41
Phoenix Directional	6/9/2018	16,856	9,280.56	89.48	178.62	1,929.87	-7,882.86	569.68	0.12	-0.12	-0.02
Phoenix Directional	6/9/2018	16,950	9,280.82	90.36	178.42	1,967.49	-8,071.79	574.56	0.48	0.47	-0.11
Phoenix Directional	6/9/2018	17,045	9,278.86	92.01	179.34	1,985.80	-8,166.75	576.42	1.99	1.74	0.97
Phoenix Directional	6/9/2018	17,139	9,277.21	89.98	179.93	2,002.89	-8,261.73	577.03	2.23	-2.14	0.62
Phoenix Directional	6/9/2018	17,234	9,278.15	88.88	178.89	2,020.35	-8,356.71	578	1.59	-1.16	-1.09
Phoenix Directional	6/9/2018	17,329	9,281.00	87.65	180.86	2,036.87	-8,450.66	578.21	2.47	-1.31	2.1
Phoenix Directional	6/9/2018	17,424	9,283.93	88.82	181.4	2,051.51	-8,545.60	576.34	1.36	1.23	0.57
Phoenix Directional	6/9/2018	17,518	9,286.08	88.56	181.03	2,065.86	-8,639.55	574.34	0.48	-0.28	-0.39
Phoenix Directional	6/9/2018	17,613	9,287.70	89.48	181.01	2,080.69	-8,734.52	572.65	0.97	0.97	-0.02
Phoenix Directional	6/9/2018	17,707	9,288.16	89.96	179.79	2,096.36	-8,828.52	572	1.39	0.51	-1.3
Phoenix Directional	6/9/2018	17,802	9,283.00	93.15	180.44	2,128.96	-9,018.42	571.62	1.71	1.68	0.34
Phoenix Directional	6/9/2018	17,896	9,275.69	95.68	181.13	2,144.13	-9,113.12	570.32	2.76	2.66	0.73
Phoenix Directional	6/9/2018	17,991	9,268.40	93.13	180.74	2,159.05	-9,207.82	568.77	2.72	-2.68	-0.41
Phoenix Directional	6/9/2018	18,086	9,263.44	92.92	180.52	2,174.34	-9,301.68	567.74	0.32	-0.22	-0.23
Phoenix Directional	6/9/2018	18,181	9,255.23	96.99	180.69	2,189.78	-9,396.30	566.74	4.29	4.28	0.18
Phoenix Directional	6/9/2018	18,276	9,236.99	94.09	178.82	2,223.25	-9,584.39	567.56	1.82	-1.53	-0.99
Phoenix Directional	6/9/2018	18,370	9,233.45	90.22	178.71	2,241.54	-9,678.28	569.58	4.12	-4.12	-0.12
Phoenix Directional	6/9/2018	18,465	9,232.78	90.59	179.88	2,259.19	-9,773.27	570.75	1.29	0.39	1.23
Phoenix Directional	6/9/2018	18,560	9,232.25	90.05	180.63	2,275.27	-9,868.27	570.33	0.97	-0.57	0.79

Phoenix Directional	6/9/2018	19,032	9,232.74	89.35	182.12	2,289.36	-9,962.24	568.07	1.75	-0.74	1.59
Phoenix Directional	6/9/2018	19,126	9,234.87	88.05	181.56	2,302.70	-10,056.16	565.05	1.51	-1.38	-0.6
Phoenix Directional	6/9/2018	19,221	9,237.24	89.1	180.71	2,317.34	-10,151.11	563.17	1.42	1.11	-0.89
Phoenix Directional	6/9/2018	19,316	9,238.56	89.3	180.14	2,333.14	-10,246.10	562.47	0.64	0.21	-0.6
Phoenix Directional	6/9/2018	19,411	9,237.78	91.65	179.39	2,350.02	-10,341.09	562.86	2.6	2.47	-0.79
Phoenix Directional	6/9/2018	19,505	9,234.61	92.21	179.78	2,367.00	-10,435.03	563.54	0.73	0.6	0.41
Phoenix Directional	6/9/2018	19,600	9,233.31	89.36	178.05	2,385.26	-10,529.99	565.34	3.51	-3	-1.82
Phoenix Directional	6/9/2018	19,666	9,234.58	88.44	178.33	2,398.77	-10,595.95	567.42	1.46	-1.39	0.42