

Well Name: HH SO 10 15 FED 002 5H
Latitude ("): 32° 3' 52.844" N
Min KO Depth (ftKB): 9,507.0
Bottom Hole Location
Northing (Y) (ft):

Lease: HH SO 10 15 Fed 002
Longitude ("): 104° 11' 1.583" W
Min KO Depth (TVD) (ftKB): 9,498

Field Name: Purple Sage
Directional Typ: Horizontal
Total Depth (ftKB): 20,515

API: 3001544371
TD Date: 2018/09/02

Easting (X) (ft): Latitude ("): Longitude ("): Closure Dir ("): 10,597.00

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	2/27/2018	277	276.87	3.02	114.15	5.35	-2.99	6.66	1.09	1.09	41.21
Phoenix Directional	2/27/2018	369	368.75	2.78	123.04	8.98	-5.19	10.74	0.55	-0.26	9.66
Phoenix Directional	2/27/2018	438	437.66	3.11	127.94	12	-7.26	13.62	0.6	0.48	7.1
Phoenix Directional	3/14/2018	498	497.6	3.42	28.76	12.32	-6.69	15.77	8.29	0.52	-165.3
Phoenix Directional	3/14/2018	590	589.55	1.79	156.4	12.06	-5.6	17.66	5.14	-1.77	138.74
Phoenix Directional	3/14/2018	683	682.54	1.35	318.5	12.47	-6.11	17.52	3.34	-0.47	174.3
Phoenix Directional	3/14/2018	869	868.45	2.19	325.12	6.91	-1.55	14.03	0.46	0.45	3.56
Phoenix Directional	3/14/2018	1,059	1,058.32	2.05	324.92	0.04	4.21	10.01	0.07	-0.07	-0.11
Phoenix Directional	3/14/2018	1,248	1,247.21	1.8	317.8	-6.07	9.17	6.07	0.18	-0.13	-3.77
Phoenix Directional	3/14/2018	1,436	1,435.10	2.16	295.91	-11.53	12.91	0.9	0.44	0.19	-11.64
Phoenix Directional	3/14/2018	1,531	1,530.04	1.9	296.51	-14.08	14.39	-2.12	0.27	-0.27	0.63
Phoenix Directional	3/14/2018	1,626	1,624.99	2	280.66	-16.19	15.4	-5.16	0.58	0.11	-16.68
Phoenix Directional	3/14/2018	1,721	1,719.89	3.21	262.6	-17.83	15.37	-9.43	1.52	1.27	-19.01
Phoenix Directional	3/14/2018	1,815	1,813.61	5.58	253.66	-19.07	13.74	-16.42	2.62	2.52	-9.51
Phoenix Directional	3/14/2018	1,910	1,908.10	6.38	238.42	-18.81	9.68	-25.35	1.86	0.84	-16.04
Phoenix Directional	3/14/2018	2,005	2,002.39	7.54	235.69	-16.8	3.4	-35	1.27	1.22	-2.87
Phoenix Directional	3/14/2018	2,100	2,096.38	9.23	237.64	-14.34	-4.19	-46.58	1.8	1.78	2.05
Phoenix Directional	3/14/2018	2,194	2,189.11	9.61	239.85	-12.14	-12.17	-59.74	0.56	0.4	2.35
Phoenix Directional	3/14/2018	2,289	2,282.88	8.83	241.46	-10.45	-19.64	-73	0.86	-0.82	1.69
Phoenix Directional	3/14/2018	2,383	2,376.04	6.52	230.48	-8.23	-26.48	-83.45	2.9	-2.46	-11.68
Phoenix Directional	3/14/2018	2,478	2,470.49	5.81	223.32	-4.77	-33.41	-90.91	1.1	-0.75	-7.54
Phoenix Directional	3/14/2018	2,573	2,565.22	2.67	229.67	-2.18	-38.34	-95.9	3.34	-3.31	6.68
Phoenix Directional	3/14/2018	2,668	2,660.18	0.42	179.49	-1.2	-40.12	-97.59	2.55	-2.37	-52.82
Phoenix Directional	3/14/2018	2,858	2,850.17	0.65	108.88	0.17	-41.17	-96.56	0.34	0.12	-37.16
Phoenix Directional	3/14/2018	3,047	3,039.12	2.04	41.05	-0.59	-38.98	-93.34	1	0.74	-35.89
Phoenix Directional	3/14/2018	3,237	3,229.05	1.24	355.22	-4.02	-34.38	-91.29	0.78	-0.42	-24.12
Phoenix Directional	3/14/2018	3,426	3,418.02	1.05	307.28	-7.47	-31.29	-92.83	0.5	-0.1	-25.37
Phoenix Directional	3/14/2018	3,615	3,607.00	0.79	208.16	-8.16	-31.39	-94.83	0.75	-0.14	-52.44
Phoenix Directional	3/14/2018	3,804	3,795.97	1.35	172.47	-5.19	-34.75	-95.15	0.45	0.3	-18.88
Phoenix Directional	3/14/2018	3,994	3,985.95	0.54	61.42	-3.12	-36.54	-94.07	0.85	-0.43	-58.45
Phoenix Directional	3/14/2018	4,183	4,174.94	0.45	67.03	-3.21	-35.82	-92.61	0.05	-0.05	2.97
Phoenix Directional	3/14/2018	4,372	4,363.94	0.28	100.51	-2.95	-35.62	-91.47	0.14	-0.09	17.71
Phoenix Directional	3/14/2018	4,561	4,552.94	0.22	89.63	-2.56	-35.7	-90.65	0.04	-0.03	-5.76
Phoenix Directional	3/14/2018	4,751	4,742.94	0.19	26.06	-2.63	-35.41	-90.15	0.11	-0.02	-33.46
Phoenix Directional	3/14/2018	4,940	4,931.94	0.13	59.83	-2.86	-35.02	-89.83	0.06	-0.03	17.87
Phoenix Directional	3/14/2018	5,129	5,120.94	0.13	151.97	-2.67	-35.11	-89.54	0.1	0	48.75
Phoenix Directional	3/14/2018	5,318	5,309.94	0.16	192.2	-2.24	-35.55	-89.49	0.05	0.02	21.29
Phoenix Directional	3/14/2018	5,507	5,498.93	0.29	220.39	-1.81	-36.17	-89.86	0.09	0.07	14.92
Phoenix Directional	3/14/2018	5,885	5,876.91	0.89	222.57	-0.17	-39.07	-92.47	0.16	0.16	0.58
Phoenix Directional	3/19/2018	6,075	6,066.90	0.6	212.76	1	-40.99	-94	0.17	-0.15	-5.16
Phoenix Directional	3/20/2018	6,264	6,255.89	0.44	221.3	1.87	-42.37	-95.02	0.09	-0.08	4.52
Phoenix Directional	3/21/2018	6,453	6,444.88	0.59	298.43	1.43	-42.45	-96.35	0.35	0.08	40.81
Phoenix Directional	3/21/2018	6,642	6,633.88	0.24	210.33	0.9	-42.33	-97.41	0.33	-0.19	-46.61
Phoenix Directional	3/21/2018	6,832	6,823.88	0.5	28.03	0.62	-41.94	-97.22	0.39	0.14	93.53
Phoenix Directional	3/21/2018	7,021	7,012.87	0.17	350.55	-0.17	-40.93	-96.88	0.2	-0.17	-19.83
Phoenix Directional	3/22/2018	7,211	7,202.87	0.88	339.2	-1.91	-39.29	-97.44	0.38	0.37	-5.97
Phoenix Directional	3/22/2018	7,400	7,391.82	1.69	305.23	-5.73	-36.33	-100.23	0.57	0.43	-17.97
Phoenix Directional	3/22/2018	7,589	7,580.74	1.67	321.8	-10.75	-32.55	-104.21	0.26	-0.01	8.77
Phoenix Directional	3/23/2018	7,778	7,769.69	0.87	348.9	-14.81	-28.98	-106.19	0.52	-0.42	14.34
Phoenix Directional	3/23/2018	7,967	7,958.68	0.4	35.65	-16.56	-27.04	-106.08	0.35	-0.25	24.74
Phoenix Directional	3/23/2018	8,156	8,147.67	0.91	53.41	-17.26	-25.61	-104.49	0.29	0.27	9.4
Phoenix Directional	3/23/2018	8,345	8,336.64	1.38	111.37	-16.02	-25.54	-101.17	0.63	0.25	30.67
Phoenix Directional	3/24/2018	8,534	8,525.55	2.15	136.62	-11.1	-28.95	-96.62	0.57	0.41	13.36
Phoenix Directional	3/24/2018	8,723	8,714.39	2.55	155.42	-3.58	-35.35	-92.43	0.46	0.21	9.95
Phoenix Directional	3/24/2018	8,912	8,903.21	2.51	159.44	4.76	-43.05	-89.23	0.1	-0.02	2.13
Phoenix Directional	3/25/2018	9,102	9,093.07	1.83	171.78	11.85	-49.95	-87.33	0.43	-0.36	6.49
Schlumberger	3/25/2018	9,255	9,246.02	1.32	205.58	15.38	-53.95	-87.75	0.68	-0.33	22.09
Schlumberger	3/25/2018	9,488	9,478.97	1	221.92	18.02	-57.89	-90.26	0.2	-0.14	7.01
Schlumberger	3/25/2018	9,534	9,524.95	2.39	206.09	18.81	-59.05	-90.95	3.16	3.02	-34.41
Schlumberger	3/25/2018	9,582	9,572.79	6.69	173.9	22.15	-62.73	-91.1	10.08	8.96	-67.06
Schlumberger	3/25/2018	9,629	9,619.17	11.78	166.17	29.51	-70.11	-89.66	11.12	10.83	-16.45
Schlumberger	3/25/2018	9,677	9,666.21	11.2	161.86	38.99	-79.3	-87.03	2.16	-1.21	-8.98
Schlumberger	3/25/2018	9,724	9,711.84	16.34	163.92	50.11	-90	-83.78	10.98	10.94	4.38
Schlumberger	3/25/2018	9,772	9,757.29	21.11	163.7	65.41	-104.79	-79.48	9.94	9.94	-0.46
Schlumberger	3/25/2018	9,818	9,799.38	26.35	165.8	83.73	-122.65	-74.65	11.54	11.39	4.57
Schlumberger	3/25/2018	9,866	9,841.59	30.56	172.06	106.06	-145.08	-70.35	10.74	8.77	13.04
Schlumberger	3/25/2018	9,913	9,881.34	33.99	180.43	129.67	-170.07	-68.79	11.97	7.3	17.81
Schlumberger	3/25/2018	9,961	9,919.89	39.08	179.07	156.02	-198.63	-68.65	10.74	10.6	-2.83
Schlumberger	3/25/2018	10,008	9,954.73	45.19	178.02	185.34	-230.14	-67.83	13.09	13	-2.23
Schlumberger	3/25/2018	10,056	9,986.71	51.22	177.66	218.77	-265.88	-66.48	12.57	12.56	-0.75
Schlumberger	3/25/2018	10,103	10,014.36	56.67	178.89	254.16	-303.85	-65.35	11.79	11.6	2.62
Schlumberger	3/25/2018	10,150	10,038.95	60.22	180.86	291.05	-343.89	-65.27	8.35	7.55	4.19
Schlumberger	3/25/2018	10,197	10,061.28	63.04	181.96	328.7	-385.23	-66.3	6.34	6	2.34

Schlumberger	3/25/2018	10,244	10,080.73	68.06	180.29	367.74	-427.99	-67.12	11.16	10.68	-3.55
Schlumberger	3/25/2018	10,291	10,095.74	74.68	180.3	408.62	-472.5	-67.35	14.09	14.09	0.02
Schlumberger	3/25/2018	10,340	10,106.62	79.66	181.17	452.34	-520.26	-67.97	10.31	10.16	1.78
Schlumberger	3/25/2018	10,387	10,113.20	84.24	180.82	494.84	-566.77	-68.78	9.77	9.74	-0.74
Schlumberger	3/25/2018	10,434	10,116.68	87.25	179.76	537.89	-613.64	-69.01	6.79	6.4	-2.26
Schlumberger	3/25/2018	10,481	10,118.38	88.62	179.49	581.24	-660.61	-68.71	2.97	2.91	-0.57
Schlumberger	3/25/2018	10,529	10,119.39	88.97	179.15	625.64	-708.59	-68.14	1.02	0.73	-0.71
Schlumberger	3/25/2018	10,664	10,120.43	90.14	179.06	750.71	-843.57	-66.03	0.87	0.87	-0.07
Schlumberger	3/25/2018	10,758	10,119.61	90.86	178.72	837.93	-937.55	-64.21	0.85	0.77	-0.36
Schlumberger	3/25/2018	10,854	10,117.57	91.58	179.08	926.98	-1,033.51	-62.36	0.84	0.75	0.38
Schlumberger	3/25/2018	10,948	10,114.16	92.58	179.21	1,013.99	-1,127.43	-60.96	1.07	1.06	0.14
Schlumberger	3/25/2018	11,043	10,110.30	92.07	178.44	1,102.10	-1,222.33	-59.02	0.97	-0.54	-0.81
Schlumberger	3/25/2018	11,137	10,108.66	89.93	177.22	1,189.94	-1,316.24	-55.46	2.62	-2.28	-1.3
Schlumberger	3/25/2018	11,232	10,110.29	88.11	177.15	1,279.09	-1,411.11	-50.79	1.92	-1.92	-0.07
Schlumberger	3/25/2018	11,421	10,116.31	88.24	180.87	1,454.19	-1,599.95	-47.53	1.97	0.07	1.97
Schlumberger	3/25/2018	11,515	10,119.11	88.35	181.18	1,540.01	-1,693.90	-49.21	0.35	0.12	0.33
Schlumberger	3/25/2018	11,610	10,121.84	88.35	180.86	1,626.75	-1,788.84	-50.9	0.34	0	-0.34
Schlumberger	3/25/2018	11,705	10,124.52	88.42	180.51	1,713.71	-1,883.80	-52.04	0.38	0.07	-0.37
Schlumberger	3/25/2018	11,799	10,127.00	88.55	179.88	1,800.08	-1,977.76	-52.36	0.68	0.14	-0.67
Schlumberger	3/25/2018	11,894	10,129.61	88.31	178.34	1,888.06	-2,072.71	-50.88	1.64	-0.25	-1.62
Schlumberger	3/25/2018	11,988	10,131.84	88.97	178.97	1,975.40	-2,166.66	-48.68	0.97	0.7	0.67
Schlumberger	3/25/2018	12,083	10,133.60	88.9	178.37	2,063.67	-2,261.62	-46.47	0.64	-0.07	-0.63
Schlumberger	3/25/2018	12,177	10,135.89	88.31	178.85	2,151.04	-2,355.56	-44.19	0.81	-0.63	0.51
Schlumberger	3/25/2018	12,272	10,138.72	88.28	179.02	2,239.12	-2,450.50	-42.43	0.18	-0.03	0.18
Schlumberger	3/25/2018	12,366	10,141.09	88.83	178.8	2,326.31	-2,544.46	-40.64	0.63	0.59	-0.23
Schlumberger	3/25/2018	12,461	10,143.37	88.42	178.45	2,414.59	-2,639.40	-38.36	0.57	-0.43	-0.37
Schlumberger	3/25/2018	12,556	10,146.05	88.35	178.68	2,502.91	-2,734.33	-35.98	0.25	-0.07	0.24
Schlumberger	3/25/2018	12,650	10,148.67	88.45	178.37	2,590.32	-2,828.27	-33.56	0.35	0.11	-0.33
Schlumberger	3/25/2018	12,744	10,151.35	88.28	178.56	2,677.76	-2,922.19	-31.05	0.27	-0.18	0.2
Schlumberger	3/25/2018	12,839	10,154.18	88.31	178.44	2,766.11	-3,017.12	-28.56	0.13	0.03	-0.13
Schlumberger	3/25/2018	12,934	10,157.01	88.28	178.21	2,854.57	-3,112.04	-25.78	0.24	-0.03	-0.24
Schlumberger	3/25/2018	13,028	10,159.83	88.28	178.75	2,942.00	-3,205.96	-23.29	0.57	0	0.57
Schlumberger	3/25/2018	13,123	10,162.68	88.28	178.36	3,030.32	-3,300.89	-20.9	0.41	0	-0.41
Schlumberger	3/25/2018	13,217	10,165.56	88.21	178.28	3,117.84	-3,394.80	-18.14	0.11	-0.07	-0.09
Schlumberger	3/25/2018	13,312	10,168.09	88.73	178.86	3,206.16	-3,489.74	-15.77	0.82	0.55	0.61
Schlumberger	3/25/2018	13,407	10,170.49	88.38	178.19	3,294.50	-3,584.68	-13.33	0.8	-0.37	-0.71
Schlumberger	3/25/2018	13,502	10,173.32	88.21	178.44	3,382.97	-3,679.59	-10.54	0.32	-0.18	0.26
Schlumberger	3/25/2018	13,596	10,176.06	88.45	178.3	3,470.47	-3,773.52	-7.86	0.3	0.26	-0.15
Schlumberger	3/25/2018	13,690	10,179.11	87.83	177.69	3,558.18	-3,867.41	-4.58	0.93	-0.66	-0.65
Schlumberger	3/25/2018	13,785	10,183.16	87.28	178.5	3,646.73	-3,962.27	-1.42	1.03	-0.58	0.85
Schlumberger	3/25/2018	13,879	10,187.59	87.32	177.91	3,734.27	-4,056.12	1.52	0.63	0.04	-0.63
Schlumberger	3/25/2018	13,974	10,192.15	87.18	178.09	3,822.86	-4,150.95	4.83	0.24	-0.15	0.19
Schlumberger	3/25/2018	14,068	10,197.06	86.83	178.58	3,910.29	-4,244.78	7.56	0.64	-0.37	0.52
Schlumberger	3/25/2018	14,163	10,202.31	86.83	178.31	3,998.58	-4,339.60	10.13	0.28	0	-0.28
Schlumberger	3/25/2018	14,258	10,206.68	87.9	178.61	4,086.90	-4,434.46	12.68	1.17	1.13	0.32
Schlumberger	3/25/2018	14,352	10,209.02	89.24	178.36	4,174.34	-4,528.40	15.17	1.45	1.43	-0.27
Schlumberger	3/25/2018	14,447	10,210.19	89.35	178.53	4,262.76	-4,623.36	17.74	0.21	0.12	0.18
Schlumberger	3/25/2018	14,541	10,211.12	89.52	177.81	4,350.41	-4,717.30	20.75	0.79	0.18	-0.77
Schlumberger	3/25/2018	14,636	10,212.15	89.24	176.81	4,439.50	-4,812.19	25.2	1.09	-0.29	-1.05
Schlumberger	3/25/2018	14,730	10,212.94	89.79	176.95	4,527.89	-4,906.05	30.32	0.6	0.59	0.15
Schlumberger	3/25/2018	14,824	10,212.69	90.52	178.09	4,615.92	-4,999.96	34.39	1.44	0.78	1.21
Schlumberger	3/25/2018	14,918	10,211.98	90.34	179.55	4,703.18	-5,093.93	36.32	1.56	-0.19	1.55
Schlumberger	3/25/2018	15,012	10,211.45	90.31	180.55	4,789.68	-5,187.93	36.24	1.06	-0.03	1.06
Schlumberger	3/25/2018	15,107	10,210.99	90.24	180.78	4,876.69	-5,282.92	35.14	0.25	-0.07	0.24
Schlumberger	3/25/2018	15,201	10,210.68	90.14	180.56	4,962.78	-5,376.92	34.04	0.26	-0.11	-0.23
Schlumberger	3/25/2018	15,296	10,209.37	91.44	181.13	5,049.66	-5,471.89	32.64	1.49	1.37	0.6
Schlumberger	3/25/2018	15,370	10,202.61	99.05	184.51	5,115.94	-5,545.43	29.03	11.24	10.28	4.57
Schlumberger	3/25/2018	15,464	10,190.87	95.3	183.52	5,199.01	-5,638.45	22.5	4.12	-3.99	-1.05
Schlumberger	3/25/2018	15,559	10,186.17	90.38	183.38	5,283.94	-5,733.13	16.8	5.18	-5.18	-0.15
Schlumberger	3/25/2018	15,747	10,186.50	89.42	179.34	5,455.16	-5,921.04	12.34	2.21	-0.51	-2.15
Schlumberger	3/25/2018	15,841	10,185.95	91.24	177.43	5,542.68	-6,014.99	14.98	2.81	1.94	-2.03
Schlumberger	3/25/2018	15,935	10,183.70	91.51	177.98	5,630.59	-6,108.89	18.75	0.65	0.29	0.59
Schlumberger	3/25/2018	16,030	10,181.39	91.27	178.41	5,719.13	-6,203.81	21.74	0.52	-0.25	0.45
Schlumberger	3/25/2018	16,124	10,179.45	91.1	178.06	5,806.73	-6,297.75	24.63	0.41	-0.18	-0.37
Schlumberger	3/25/2018	16,219	10,177.83	90.86	177.83	5,895.44	-6,392.67	28.04	0.35	-0.25	-0.24
Schlumberger	3/25/2018	16,406	10,172.88	92.17	177.12	6,070.56	-6,579.42	36.27	0.8	0.7	-0.38
Schlumberger	3/25/2018	16,511	10,168.88	92.2	178.07	6,168.78	-6,684.25	40.68	0.9	0.03	0.9
Schlumberger	3/25/2018	16,700	10,161.51	92.27	178.86	6,344.53	-6,873.04	45.74	0.42	0.04	0.42
Schlumberger	3/25/2018	16,984	10,150.33	92.24	179.62	6,607.20	-7,156.79	49.5	0.27	-0.01	0.27
Schlumberger	3/25/2018	17,080	10,146.55	92.27	179.24	6,695.87	-7,252.71	50.45	0.4	0.03	-0.4
Schlumberger	3/25/2018	17,173	10,143.32	91.72	179.4	6,781.85	-7,345.65	51.56	0.62	-0.59	0.17
Schlumberger	3/25/2018	17,269	10,140.81	91.27	179.57	6,870.52	-7,441.61	52.42	0.5	-0.47	0.18
Schlumberger	3/25/2018	17,362	10,138.83	91.17	179.2	6,956.49	-7,534.58	53.42	0.41	-0.11	-0.4
Schlumberger	3/25/2018	17,457	10,136.35	91.82	179.98	7,044.17	-7,629.55	54.1	1.07	0.68	0.82
Schlumberger	3/25/2018	17,553	10,133.73	91.31	179.37	7,132.72	-7,725.51	54.64	0.83	-0.53	-0.64
Schlumberger	3/25/2018	17,743	10,131.10	90.28	179.79	7,308.13	-7,915.48	56.03	0.59	-0.54	0.22
Schlumberger	3/25/2018	17,837	10,131.04	89.79	179.64	7,394.84	-8,009.48	56.5	0.55	-0.52	-0.16
Schlumberger	3/25/2018	17,932	10,131.75	89.35	179.81	7,482.47	-8,104.48	56.96	0.5	-0.46	0.18
Schlumberger	3/25/2018	18,025	10,132.86	89.28	179.5	7,568.28	-8,197.47	57.52	0.34	-0.08	-0.33
Schlumberger	3/25/2018	18,215	10,135.09	89.38	179.82	7,743.61	-8,387.45	58.65	0.18	0.05	0.17
Schlumberger	3/25/2018	18,311	10,136.18	89.31	179.83	7,832.08	-8,483.45	58.94	0.07	-0.07	0.01
Schlumberger	3/25/2018	18,405	10,136.89	89.83	179.26	7,918.90	-8,577.44	59.69	0.82	0.55	-0.61
Schlumberger	3/25/2018	18,500	10,136.52	90.62	179.9	8,006.61	-8,672.43	60.38	1.07	0.83	0.67
Schlumberger	3/25/2018	18,689	10,136.45	89.42	178.56	8,181.56	-8,861.41	62.92	0.95	-0.63	-0.71

Schlumberger	3/25/2018	18,784	10,137.05	89.86	180.03	8,269.45	-8,956.40	64.09	1.62	0.46	1.55
Schlumberger	3/25/2018	18,878	10,137.24	89.9	180.13	8,355.93	-9,050.40	63.96	0.11	0.04	0.11
Schlumberger	3/25/2018	18,973	10,138.47	88.62	179.41	8,443.51	-9,145.39	64.34	1.55	-1.35	-0.76
Schlumberger	3/25/2018	19,163	10,145.55	87.11	177.27	8,620.35	-9,335.16	69.84	1.38	-0.79	-1.13
Schlumberger	3/25/2018	19,257	10,148.60	89.17	176.92	8,708.57	-9,428.98	74.6	2.22	2.19	-0.37
Schlumberger	3/25/2018	19,352	10,148.95	90.41	177.76	8,797.65	-9,523.88	79.01	1.58	1.31	0.88
Schlumberger	3/25/2018	19,447	10,149.64	88.76	178.54	8,886.24	-9,618.82	82.08	1.92	-1.74	0.82
Schlumberger	3/25/2018	19,541	10,151.16	89.38	179.48	8,973.38	-9,712.79	83.7	1.2	0.66	1
Schlumberger	3/25/2018	19,562	10,151.50	88.76	178.54	8,992.84	-9,733.79	84.06	5.36	-2.95	-4.48
Schlumberger	3/25/2018	19,636	10,152.50	89.69	180.13	9,061.28	-9,807.77	84.92	2.49	1.26	2.15
Schlumberger	3/25/2018	19,730	10,152.78	89.97	180.37	9,147.65	-9,901.77	84.51	0.39	0.3	0.26
Schlumberger	3/25/2018	19,825	10,152.41	90.48	181.66	9,234.42	-9,996.75	82.83	1.46	0.54	1.36
Schlumberger	3/25/2018	20,014	10,151.57	90.03	181.68	9,406.17	-10,185.67	77.32	0.24	-0.24	0.01
Schlumberger	3/25/2018	20,203	10,151.01	90.31	181.62	9,577.95	-10,374.59	71.88	0.15	0.15	-0.03
Schlumberger	3/25/2018	20,298	10,151.12	89.55	180.76	9,664.60	-10,469.57	69.9	1.21	-0.8	-0.91
Schlumberger	3/25/2018	20,393	10,151.70	89.76	180.7	9,751.57	-10,564.56	68.69	0.23	0.22	-0.06
Schlumberger	3/25/2018	20,515	10,152.70	89.3	180.7	9,863.28	-10,686.55	67.2	0.38	-0.38	0