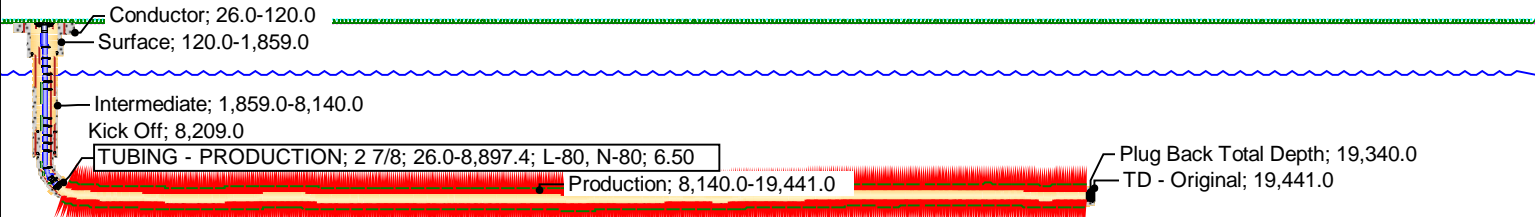


UL Perf Schematic

HORIZONTAL - Original, 5/16/2016 8:55:32 AM

Directional schematic (actual)

THIS WELLBORE DIAGRAM IS REFLECTIVE OF THE INFORMATION THAT HAS BEEN PLACED BY FIELD PERSONEL. IF ANY DATA VARIES FROM THE W-2 FILING, THE W-2 SHALL GOVERN.



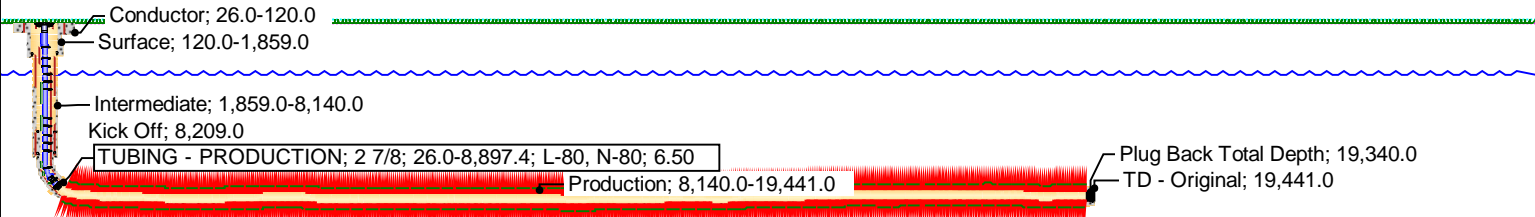
API/UWI	ST REG DIST	Field Name	Spud Date	On Prod Date
42-003-46352-0000	8	SPRABERRY (TREND AREA)	12/12/2014 18:30	2/22/2016 13:00

Perforations								
Int #	Cluster #	Date	Type	Top (ftKB)	Top (TVD) (ftKB)	Btm (ftKB)	Btm (TVD) (ftKB)	Job
68	5	2/9/2016 16:19	CONVENTIONAL PERF	9,071.0	8,913.9	9,073.0	8,914.6	OCM, 1/16/2015 00:00
68	4	2/9/2016 16:18	CONVENTIONAL PERF	9,101.0	8,923.8	9,103.0	8,924.4	OCM, 1/16/2015 00:00
68	3	2/9/2016 16:17	CONVENTIONAL PERF	9,131.0	8,931.4	9,133.0	8,931.8	OCM, 1/16/2015 00:00
68	2	2/9/2016 16:16	CONVENTIONAL PERF	9,161.0	8,936.9	9,163.0	8,937.2	OCM, 1/16/2015 00:00
68	1	2/9/2016 16:15	CONVENTIONAL PERF	9,191.0	8,940.9	9,193.0	8,941.2	OCM, 1/16/2015 00:00
67	5	2/9/2016 13:31	CONVENTIONAL PERF	9,221.0	8,944.2	9,223.0	8,944.4	OCM, 1/16/2015 00:00
67	4	2/9/2016 13:30	CONVENTIONAL PERF	9,251.0	8,947.0	9,253.0	8,947.2	OCM, 1/16/2015 00:00
67	3	2/9/2016 13:29	CONVENTIONAL PERF	9,281.0	8,949.6	9,283.0	8,949.7	OCM, 1/16/2015 00:00
67	2	2/9/2016 13:28	CONVENTIONAL PERF	9,311.0	8,952.0	9,313.0	8,952.1	OCM, 1/16/2015 00:00
67	1	2/9/2016 13:27	CONVENTIONAL PERF	9,341.0	8,954.2	9,343.0	8,954.3	OCM, 1/16/2015 00:00
66	5	2/9/2016 10:59	CONVENTIONAL PERF	9,371.0	8,956.3	9,373.0	8,956.4	OCM, 1/16/2015 00:00
66	4	2/9/2016 10:58	CONVENTIONAL PERF	9,401.0	8,958.3	9,403.0	8,958.4	OCM, 1/16/2015 00:00
66	3	2/9/2016 10:57	CONVENTIONAL PERF	9,431.0	8,960.2	9,433.0	8,960.3	OCM, 1/16/2015 00:00
66	2	2/9/2016 10:56	CONVENTIONAL PERF	9,461.0	8,961.9	9,463.0	8,962.0	OCM, 1/16/2015 00:00
66	1	2/9/2016 10:55	CONVENTIONAL PERF	9,491.0	8,963.5	9,493.0	8,963.6	OCM, 1/16/2015 00:00
65	5	2/9/2016 07:57	CONVENTIONAL PERF	9,521.0	8,965.0	9,523.0	8,965.0	OCM, 1/16/2015 00:00
65	4	2/9/2016 07:56	CONVENTIONAL PERF	9,551.0	8,966.2	9,553.0	8,966.3	OCM, 1/16/2015 00:00
65	3	2/9/2016 07:55	CONVENTIONAL PERF	9,581.0	8,967.4	9,583.0	8,967.4	OCM, 1/16/2015 00:00
65	2	2/9/2016 07:54	CONVENTIONAL PERF	9,611.0	8,968.3	9,613.0	8,968.4	OCM, 1/16/2015 00:00
65	1	2/9/2016 07:53	CONVENTIONAL PERF	9,641.0	8,969.1	9,643.0	8,969.1	OCM, 1/16/2015 00:00
64	5	2/9/2016 03:35	CONVENTIONAL PERF	9,671.0	8,969.6	9,673.0	8,969.7	OCM, 1/16/2015 00:00
64	4	2/9/2016 03:34	CONVENTIONAL PERF	9,701.0	8,970.0	9,703.0	8,970.0	OCM, 1/16/2015 00:00
64	3	2/9/2016 03:33	CONVENTIONAL PERF	9,731.0	8,970.2	9,733.0	8,970.2	OCM, 1/16/2015 00:00
64	2	2/9/2016 03:32	CONVENTIONAL PERF	9,761.0	8,970.4	9,763.0	8,970.4	OCM, 1/16/2015 00:00
64	1	2/9/2016 03:31	CONVENTIONAL PERF	9,791.0	8,970.5	9,793.0	8,970.6	OCM, 1/16/2015 00:00
63	5	2/9/2016 00:38	CONVENTIONAL PERF	9,821.0	8,970.8	9,823.0	8,970.8	OCM, 1/16/2015 00:00
63	4	2/9/2016 00:37	CONVENTIONAL PERF	9,851.0	8,971.3	9,853.0	8,971.3	OCM, 1/16/2015 00:00
63	3	2/9/2016 00:36	CONVENTIONAL PERF	9,881.0	8,972.1	9,883.0	8,972.1	OCM, 1/16/2015 00:00
63	2	2/9/2016 00:35	CONVENTIONAL PERF	9,911.0	8,973.0	9,913.0	8,973.0	OCM, 1/16/2015 00:00
63	1	2/9/2016 00:34	CONVENTIONAL PERF	9,941.0	8,973.5	9,943.0	8,973.5	OCM, 1/16/2015 00:00
62	5	2/8/2016 21:39	CONVENTIONAL PERF	9,971.0	8,973.8	9,973.0	8,973.9	OCM, 1/16/2015 00:00
62	4	2/8/2016 21:38	CONVENTIONAL PERF	10,001.0	8,974.9	10,003.0	8,975.0	OCM, 1/16/2015 00:00
62	3	2/8/2016 21:37	CONVENTIONAL PERF	10,031.0	8,976.0	10,033.0	8,976.0	OCM, 1/16/2015 00:00
62	2	2/8/2016 21:36	CONVENTIONAL PERF	10,061.0	8,976.8	10,063.0	8,976.9	OCM, 1/16/2015 00:00
62	1	2/8/2016 21:35	CONVENTIONAL PERF	10,091.0	8,977.5	10,093.0	8,977.6	OCM, 1/16/2015 00:00
61	5	2/8/2016 18:52	CONVENTIONAL PERF	10,121.0	8,978.3	10,123.0	8,978.3	OCM, 1/16/2015 00:00
61	4	2/8/2016 18:51	CONVENTIONAL PERF	10,151.0	8,979.1	10,153.0	8,979.2	OCM, 1/16/2015 00:00
61	3	2/8/2016 18:50	CONVENTIONAL PERF	10,181.0	8,980.1	10,183.0	8,980.1	OCM, 1/16/2015 00:00
61	2	2/8/2016 18:49	CONVENTIONAL PERF	10,211.0	8,980.9	10,213.0	8,980.9	OCM, 1/16/2015 00:00
61	1	2/8/2016 18:48	CONVENTIONAL PERF	10,241.0	8,981.4	10,243.0	8,981.5	OCM, 1/16/2015 00:00
60	5	2/8/2016 15:47	CONVENTIONAL PERF	10,271.0	8,981.8	10,273.0	8,981.8	OCM, 1/16/2015 00:00
60	4	2/8/2016 15:46	CONVENTIONAL PERF	10,301.0	8,981.9	10,303.0	8,981.9	OCM, 1/16/2015 00:00
60	3	2/8/2016 15:45	CONVENTIONAL PERF	10,331.0	8,981.7	10,333.0	8,981.7	OCM, 1/16/2015 00:00
60	2	2/8/2016 15:44	CONVENTIONAL PERF	10,361.0	8,981.3	10,363.0	8,981.2	OCM, 1/16/2015 00:00
60	1	2/8/2016 15:43	CONVENTIONAL PERF	10,391.0	8,980.7	10,393.0	8,980.6	OCM, 1/16/2015 00:00
59	5	2/8/2016 13:03	CONVENTIONAL PERF	10,421.0	8,980.1	10,423.0	8,980.0	OCM, 1/16/2015 00:00
59	4	2/8/2016 13:02	CONVENTIONAL PERF	10,451.0	8,979.5	10,453.0	8,979.4	OCM, 1/16/2015 00:00
59	3	2/8/2016 13:01	CONVENTIONAL PERF	10,481.0	8,978.9	10,483.0	8,978.8	OCM, 1/16/2015 00:00
59	2	2/8/2016 13:00	CONVENTIONAL PERF	10,511.0	8,978.2	10,513.0	8,978.2	OCM, 1/16/2015 00:00
59	1	2/8/2016 00:00	CONVENTIONAL PERF	10,541.0	8,977.6	10,543.0	8,977.6	OCM, 1/16/2015 00:00
58	5	2/8/2016 09:59	CONVENTIONAL PERF	10,571.0	8,977.0	10,573.0	8,977.0	OCM, 1/16/2015 00:00
58	4	2/8/2016 09:58	CONVENTIONAL PERF	10,601.0	8,976.3	10,603.0	8,976.2	OCM, 1/16/2015 00:00
58	3	2/8/2016 09:57	CONVENTIONAL PERF	10,631.0	8,975.5	10,633.0	8,975.5	OCM, 1/16/2015 00:00
58	2	2/8/2016 09:56	CONVENTIONAL PERF	10,661.0	8,974.6	10,663.0	8,974.6	OCM, 1/16/2015 00:00
58	1	2/8/2016 09:55	CONVENTIONAL PERF	10,691.0	8,973.7	10,693.0	8,973.6	OCM, 1/16/2015 00:00
57	5	2/8/2016 05:03	CONVENTIONAL PERF	10,721.0	8,972.7	10,723.0	8,972.6	OCM, 1/16/2015 00:00
57	4	2/8/2016 05:02	CONVENTIONAL PERF	10,751.0	8,971.6	10,753.0	8,971.6	OCM, 1/16/2015 00:00
57	3	2/8/2016 05:01	CONVENTIONAL PERF	10,781.0	8,970.9	10,783.0	8,970.8	OCM, 1/16/2015 00:00
57	2	2/8/2016 05:00	CONVENTIONAL PERF	10,811.0	8,970.5	10,813.0	8,970.5	OCM, 1/16/2015 00:00
57	1	2/8/2016 04:59	CONVENTIONAL PERF	10,841.0	8,970.6	10,843.0	8,970.6	OCM, 1/16/2015 00:00
56	5	2/8/2016 01:50	CONVENTIONAL PERF	10,871.0	8,970.8	10,873.0	8,970.8	OCM, 1/16/2015 00:00
56	4	2/8/2016 01:49	CONVENTIONAL PERF	10,901.0	8,970.7	10,903.0	8,970.7	OCM, 1/16/2015 00:00
56	3	2/8/2016 01:48	CONVENTIONAL PERF	10,931.0	8,970.5	10,933.0	8,970.5	OCM, 1/16/2015 00:00
56	2	2/8/2016 01:47	CONVENTIONAL PERF	10,961.0	8,970.1	10,963.0	8,970.1	OCM, 1/16/2015 00:00
56	1	2/8/2016 01:46	CONVENTIONAL PERF	10,991.0	8,969.4	10,993.0	8,969.4	OCM, 1/16/2015 00:00
55	5	2/7/2016 23:03	CONVENTIONAL PERF	11,021.0	8,968.6	11,023.0	8,968.5	OCM, 1/16/2015 00:00

UL Perf Schematic

HORIZONTAL - Original, 5/16/2016 8:56:04 AM

Directional schematic (actual)



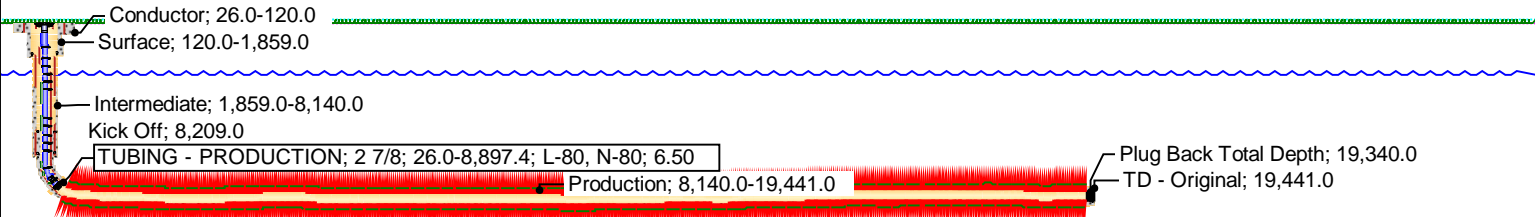
Perforations

Int #	Cluster #	Date	Type	Top (ftKB)	Top (TVD) (ftKB)	Btm (ftKB)	Btm (TVD) (ftKB)	Job
55	4	2/7/2016 23:02	CONVENTIONAL PERF	11,051.0	8,967.6	11,053.0	8,967.5	OCM, 1/16/2015 00:00
55	3	2/7/2016 23:01	CONVENTIONAL PERF	11,081.0	8,966.9	11,083.0	8,966.9	OCM, 1/16/2015 00:00
55	2	2/7/2016 23:00	CONVENTIONAL PERF	11,111.0	8,966.6	11,113.0	8,966.6	OCM, 1/16/2015 00:00
55	1	2/7/2016 22:59	CONVENTIONAL PERF	11,141.0	8,966.5	11,143.0	8,966.5	OCM, 1/16/2015 00:00
54	5	2/7/2016 20:31	CONVENTIONAL PERF	11,171.0	8,966.6	11,173.0	8,966.6	OCM, 1/16/2015 00:00
54	4	2/7/2016 20:30	CONVENTIONAL PERF	11,201.0	8,966.8	11,203.0	8,966.8	OCM, 1/16/2015 00:00
54	3	2/7/2016 20:29	CONVENTIONAL PERF	11,231.0	8,967.0	11,233.0	8,967.0	OCM, 1/16/2015 00:00
54	2	2/7/2016 20:28	CONVENTIONAL PERF	11,261.0	8,967.0	11,263.0	8,967.0	OCM, 1/16/2015 00:00
54	1	2/7/2016 20:27	CONVENTIONAL PERF	11,291.0	8,966.8	11,293.0	8,966.7	OCM, 1/16/2015 00:00
53	5	2/7/2016 17:21	CONVENTIONAL PERF	11,321.0	8,966.3	11,323.0	8,966.3	OCM, 1/16/2015 00:00
53	4	2/7/2016 17:20	CONVENTIONAL PERF	11,351.0	8,966.0	11,353.0	8,966.0	OCM, 1/16/2015 00:00
53	3	2/7/2016 17:19	CONVENTIONAL PERF	11,381.0	8,966.0	11,383.0	8,966.0	OCM, 1/16/2015 00:00
53	2	2/7/2016 17:18	CONVENTIONAL PERF	11,411.0	8,966.3	11,413.0	8,966.4	OCM, 1/16/2015 00:00
53	1	2/7/2016 17:17	CONVENTIONAL PERF	11,441.0	8,967.0	11,443.0	8,967.0	OCM, 1/16/2015 00:00
52	5	2/7/2016 14:22	CONVENTIONAL PERF	11,471.0	8,967.9	11,473.0	8,967.9	OCM, 1/16/2015 00:00
52	4	2/7/2016 14:21	CONVENTIONAL PERF	11,501.0	8,969.0	11,503.0	8,969.1	OCM, 1/16/2015 00:00
52	3	2/7/2016 14:20	CONVENTIONAL PERF	11,531.0	8,970.3	11,533.0	8,970.4	OCM, 1/16/2015 00:00
52	2	2/7/2016 14:19	CONVENTIONAL PERF	11,561.0	8,971.6	11,563.0	8,971.7	OCM, 1/16/2015 00:00
52	1	2/7/2016 14:18	CONVENTIONAL PERF	11,591.0	8,972.9	11,593.0	8,973.0	OCM, 1/16/2015 00:00
51	5	2/7/2016 11:20	CONVENTIONAL PERF	11,621.0	8,974.1	11,623.0	8,974.2	OCM, 1/16/2015 00:00
51	4	2/7/2016 11:19	CONVENTIONAL PERF	11,651.0	8,975.2	11,653.0	8,975.2	OCM, 1/16/2015 00:00
51	3	2/7/2016 11:18	CONVENTIONAL PERF	11,681.0	8,976.0	11,683.0	8,976.1	OCM, 1/16/2015 00:00
51	2	2/7/2016 11:17	CONVENTIONAL PERF	11,711.0	8,976.8	11,713.0	8,976.8	OCM, 1/16/2015 00:00
51	1	2/7/2016 11:16	CONVENTIONAL PERF	11,741.0	8,977.5	11,743.0	8,977.5	OCM, 1/16/2015 00:00
50	5	2/7/2016 06:20	CONVENTIONAL PERF	11,771.0	8,978.1	11,773.0	8,978.2	OCM, 1/16/2015 00:00
50	4	2/7/2016 06:19	CONVENTIONAL PERF	11,801.0	8,978.7	11,803.0	8,978.7	OCM, 1/16/2015 00:00
50	3	2/7/2016 06:18	CONVENTIONAL PERF	11,831.0	8,978.8	11,833.0	8,978.8	OCM, 1/16/2015 00:00
50	2	2/7/2016 06:17	CONVENTIONAL PERF	11,861.0	8,978.6	11,863.0	8,978.6	OCM, 1/16/2015 00:00
50	1	2/7/2016 06:16	CONVENTIONAL PERF	11,891.0	8,978.1	11,893.0	8,978.0	OCM, 1/16/2015 00:00
49	5	2/7/2016 03:13	CONVENTIONAL PERF	11,921.0	8,977.3	11,923.0	8,977.3	OCM, 1/16/2015 00:00
49	4	2/7/2016 03:12	CONVENTIONAL PERF	11,951.0	8,976.4	11,953.0	8,976.3	OCM, 1/16/2015 00:00
49	3	2/7/2016 03:11	CONVENTIONAL PERF	11,981.0	8,975.4	11,983.0	8,975.4	OCM, 1/16/2015 00:00
49	2	2/7/2016 03:10	CONVENTIONAL PERF	12,011.0	8,975.1	12,013.0	8,975.1	OCM, 1/16/2015 00:00
49	1	2/7/2016 03:09	CONVENTIONAL PERF	12,041.0	8,975.5	12,043.0	8,975.6	OCM, 1/16/2015 00:00
48	5	2/7/2016 00:10	CONVENTIONAL PERF	12,071.0	8,976.5	12,073.0	8,976.5	OCM, 1/16/2015 00:00
48	4	2/7/2016 00:09	CONVENTIONAL PERF	12,101.0	8,977.5	12,103.0	8,977.6	OCM, 1/16/2015 00:00
48	3	2/7/2016 00:08	CONVENTIONAL PERF	12,131.0	8,978.5	12,133.0	8,978.6	OCM, 1/16/2015 00:00
48	2	2/7/2016 00:07	CONVENTIONAL PERF	12,161.0	8,979.6	12,163.0	8,979.6	OCM, 1/16/2015 00:00
48	1	2/7/2016 00:06	CONVENTIONAL PERF	12,191.0	8,980.3	12,193.0	8,980.4	OCM, 1/16/2015 00:00
47	5	2/6/2016 21:08	CONVENTIONAL PERF	12,221.0	8,980.8	12,223.0	8,980.8	OCM, 1/16/2015 00:00
47	4	2/6/2016 21:07	CONVENTIONAL PERF	12,251.0	8,981.0	12,253.0	8,981.0	OCM, 1/16/2015 00:00
47	3	2/6/2016 21:06	CONVENTIONAL PERF	12,281.0	8,981.1	12,283.0	8,981.2	OCM, 1/16/2015 00:00
47	2	2/6/2016 21:05	CONVENTIONAL PERF	12,311.0	8,981.3	12,313.0	8,981.4	OCM, 1/16/2015 00:00
47	1	2/6/2016 21:04	CONVENTIONAL PERF	12,341.0	8,981.6	12,343.0	8,981.6	OCM, 1/16/2015 00:00
46	5	2/6/2016 17:23	CONVENTIONAL PERF	12,371.0	8,981.8	12,373.0	8,981.8	OCM, 1/16/2015 00:00
46	4	2/6/2016 17:22	CONVENTIONAL PERF	12,401.0	8,981.9	12,403.0	8,981.9	OCM, 1/16/2015 00:00
46	3	2/6/2016 17:21	CONVENTIONAL PERF	12,431.0	8,981.9	12,433.0	8,981.9	OCM, 1/16/2015 00:00
46	2	2/6/2016 17:20	CONVENTIONAL PERF	12,461.0	8,981.8	12,463.0	8,981.7	OCM, 1/16/2015 00:00
46	1	2/6/2016 17:19	CONVENTIONAL PERF	12,491.0	8,981.2	12,493.0	8,981.2	OCM, 1/16/2015 00:00
45	5	2/6/2016 14:07	CONVENTIONAL PERF	12,521.0	8,980.4	12,523.0	8,980.3	OCM, 1/16/2015 00:00
45	4	2/6/2016 14:06	CONVENTIONAL PERF	12,551.0	8,979.3	12,553.0	8,979.3	OCM, 1/16/2015 00:00
45	3	2/6/2016 14:05	CONVENTIONAL PERF	12,581.0	8,978.5	12,583.0	8,978.5	OCM, 1/16/2015 00:00
45	2	2/6/2016 14:04	CONVENTIONAL PERF	12,611.0	8,978.0	12,613.0	8,978.0	OCM, 1/16/2015 00:00
45	1	2/6/2016 14:03	CONVENTIONAL PERF	12,641.0	8,977.7	12,643.0	8,977.7	OCM, 1/16/2015 00:00
44	5	2/6/2016 10:59	CONVENTIONAL PERF	12,671.0	8,977.2	12,673.0	8,977.2	OCM, 1/16/2015 00:00
44	4	2/6/2016 10:58	CONVENTIONAL PERF	12,701.0	8,976.7	12,703.0	8,976.6	OCM, 1/16/2015 00:00
44	3	2/6/2016 10:57	CONVENTIONAL PERF	12,731.0	8,976.0	12,733.0	8,976.0	OCM, 1/16/2015 00:00
44	2	2/6/2016 10:56	CONVENTIONAL PERF	12,761.0	8,975.5	12,763.0	8,975.5	OCM, 1/16/2015 00:00
44	1	2/6/2016 10:55	CONVENTIONAL PERF	12,791.0	8,975.3	12,793.0	8,975.3	OCM, 1/16/2015 00:00
43	5	2/6/2016 06:13	CONVENTIONAL PERF	12,821.0	8,975.4	12,823.0	8,975.4	OCM, 1/16/2015 00:00
43	4	2/6/2016 06:12	CONVENTIONAL PERF	12,851.0	8,975.1	12,853.0	8,975.1	OCM, 1/16/2015 00:00
43	3	2/6/2016 06:11	CONVENTIONAL PERF	12,881.0	8,974.3	12,883.0	8,974.3	OCM, 1/16/2015 00:00
43	2	2/6/2016 06:10	CONVENTIONAL PERF	12,911.0	8,973.1	12,913.0	8,973.0	OCM, 1/16/2015 00:00
43	1	2/6/2016 06:09	CONVENTIONAL PERF	12,941.0	8,972.0	12,943.0	8,971.9	OCM, 1/16/2015 00:00
42	5	2/6/2016 02:45	CONVENTIONAL PERF	12,971.0	8,971.3	12,973.0	8,971.3	OCM, 1/16/2015 00:00
42	4	2/6/2016 02:44	CONVENTIONAL PERF	13,001.0	8,971.0	13,003.0	8,971.0	OCM, 1/16/2015 00:00
42	3	2/6/2016 02:43	CONVENTIONAL PERF	13,031.0	8,971.1	13,033.0	8,971.1	OCM, 1/16/2015 00:00

UL Perf Schematic

HORIZONTAL - Original, 5/16/2016 8:56:28 AM

Directional schematic (actual)



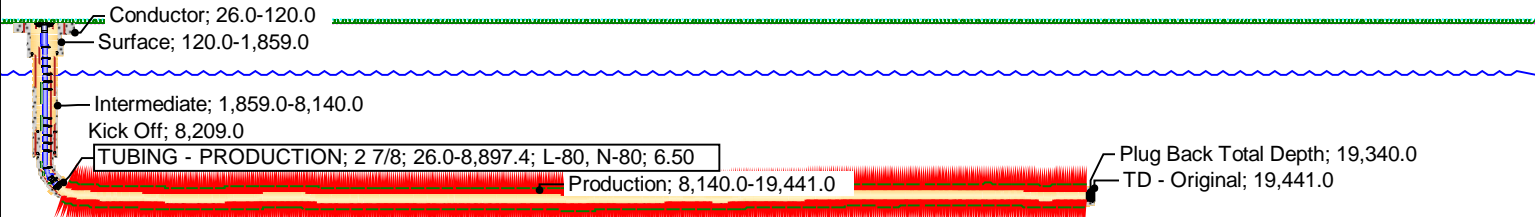
Perforations								
Int #	Cluster #	Date	Type	Top (ftKB)	Top (TVD) (ftKB)	Btm (ftKB)	Btm (TVD) (ftKB)	Job
42	2	2/6/2016 02:42	CONVENTIONAL PERF	13,061.0	8,971.3	13,063.0	8,971.3	OCM, 1/16/2015 00:00
42	1	2/6/2016 02:41	CONVENTIONAL PERF	13,091.0	8,971.7	13,093.0	8,971.8	OCM, 1/16/2015 00:00
41	5	2/5/2016 22:31	CONVENTIONAL PERF	13,121.0	8,972.2	13,123.0	8,972.3	OCM, 1/16/2015 00:00
41	4	2/5/2016 22:30	CONVENTIONAL PERF	13,151.0	8,972.6	13,153.0	8,972.7	OCM, 1/16/2015 00:00
41	3	2/5/2016 22:29	CONVENTIONAL PERF	13,181.0	8,973.0	13,183.0	8,973.0	OCM, 1/16/2015 00:00
41	2	2/5/2016 22:28	CONVENTIONAL PERF	13,211.0	8,973.3	13,213.0	8,973.3	OCM, 1/16/2015 00:00
41	1	2/5/2016 22:27	CONVENTIONAL PERF	13,241.0	8,973.6	13,243.0	8,973.6	OCM, 1/16/2015 00:00
40	5	2/5/2016 19:11	CONVENTIONAL PERF	13,271.0	8,974.0	13,273.0	8,974.0	OCM, 1/16/2015 00:00
40	4	2/5/2016 19:10	CONVENTIONAL PERF	13,301.0	8,974.5	13,303.0	8,974.5	OCM, 1/16/2015 00:00
40	3	2/5/2016 19:09	CONVENTIONAL PERF	13,331.0	8,974.9	13,333.0	8,974.9	OCM, 1/16/2015 00:00
40	2	2/5/2016 19:08	CONVENTIONAL PERF	13,361.0	8,975.2	13,363.0	8,975.2	OCM, 1/16/2015 00:00
40	1	2/5/2016 19:07	CONVENTIONAL PERF	13,391.0	8,975.4	13,393.0	8,975.4	OCM, 1/16/2015 00:00
39	5	2/5/2016 14:47	CONVENTIONAL PERF	13,421.0	8,975.5	13,423.0	8,975.5	OCM, 1/16/2015 00:00
39	4	2/5/2016 14:46	CONVENTIONAL PERF	13,451.0	8,975.5	13,453.0	8,975.5	OCM, 1/16/2015 00:00
39	3	2/5/2016 14:45	CONVENTIONAL PERF	13,481.0	8,975.4	13,483.0	8,975.4	OCM, 1/16/2015 00:00
39	2	2/5/2016 14:44	CONVENTIONAL PERF	13,511.0	8,975.4	13,513.0	8,975.4	OCM, 1/16/2015 00:00
39	1	2/5/2016 14:43	CONVENTIONAL PERF	13,541.0	8,975.4	13,543.0	8,975.4	OCM, 1/16/2015 00:00
38	5	2/5/2016 10:27	CONVENTIONAL PERF	13,571.0	8,975.4	13,573.0	8,975.4	OCM, 1/16/2015 00:00
38	4	2/5/2016 10:26	CONVENTIONAL PERF	13,601.0	8,975.5	13,603.0	8,975.5	OCM, 1/16/2015 00:00
38	3	2/5/2016 10:25	CONVENTIONAL PERF	13,631.0	8,975.8	13,633.0	8,975.8	OCM, 1/16/2015 00:00
38	2	2/5/2016 10:24	CONVENTIONAL PERF	13,661.0	8,976.2	13,663.0	8,976.2	OCM, 1/16/2015 00:00
38	1	2/5/2016 10:23	CONVENTIONAL PERF	13,691.0	8,976.6	13,693.0	8,976.6	OCM, 1/16/2015 00:00
37	5	2/5/2016 06:47	CONVENTIONAL PERF	13,721.0	8,976.8	13,723.0	8,976.8	OCM, 1/16/2015 00:00
37	4	2/5/2016 06:45	CONVENTIONAL PERF	13,751.0	8,976.9	13,753.0	8,976.9	OCM, 1/16/2015 00:00
37	3	2/5/2016 06:44	CONVENTIONAL PERF	13,781.0	8,976.9	13,783.0	8,976.9	OCM, 1/16/2015 00:00
37	2	2/5/2016 06:43	CONVENTIONAL PERF	13,811.0	8,977.2	13,813.0	8,977.2	OCM, 1/16/2015 00:00
37	1	2/5/2016 06:42	CONVENTIONAL PERF	13,841.0	8,977.8	13,843.0	8,977.9	OCM, 1/16/2015 00:00
36	5	2/5/2016 00:47	CONVENTIONAL PERF	13,871.0	8,978.7	13,873.0	8,978.8	OCM, 1/16/2015 00:00
36	4	2/5/2016 00:46	CONVENTIONAL PERF	13,901.0	8,979.6	13,903.0	8,979.7	OCM, 1/16/2015 00:00
36	3	2/5/2016 00:45	CONVENTIONAL PERF	13,931.0	8,980.4	13,933.0	8,980.5	OCM, 1/16/2015 00:00
36	2	2/5/2016 00:44	CONVENTIONAL PERF	13,961.0	8,981.2	13,963.0	8,981.2	OCM, 1/16/2015 00:00
36	1	2/5/2016 00:43	CONVENTIONAL PERF	13,991.0	8,982.0	13,993.0	8,982.1	OCM, 1/16/2015 00:00
35	5	2/4/2016 17:15	CONVENTIONAL PERF	14,021.0	8,982.9	14,023.0	8,983.0	OCM, 1/16/2015 00:00
35	4	2/4/2016 17:14	CONVENTIONAL PERF	14,051.0	8,983.9	14,053.0	8,984.0	OCM, 1/16/2015 00:00
35	3	2/4/2016 17:13	CONVENTIONAL PERF	14,081.0	8,984.7	14,083.0	8,984.7	OCM, 1/16/2015 00:00
35	2	2/4/2016 17:12	CONVENTIONAL PERF	14,111.0	8,985.2	14,113.0	8,985.2	OCM, 1/16/2015 00:00
35	1	2/4/2016 17:11	CONVENTIONAL PERF	14,141.0	8,985.3	14,143.0	8,985.3	OCM, 1/16/2015 00:00
34	5	2/4/2016 13:37	CONVENTIONAL PERF	14,171.0	8,985.3	14,173.0	8,985.3	OCM, 1/16/2015 00:00
34	4	2/4/2016 13:36	CONVENTIONAL PERF	14,201.0	8,985.0	14,203.0	8,985.0	OCM, 1/16/2015 00:00
34	3	2/4/2016 13:35	CONVENTIONAL PERF	14,231.0	8,984.6	14,233.0	8,984.5	OCM, 1/16/2015 00:00
34	2	2/4/2016 13:34	CONVENTIONAL PERF	14,261.0	8,984.0	14,263.0	8,984.0	OCM, 1/16/2015 00:00
34	1	2/4/2016 13:33	CONVENTIONAL PERF	14,291.0	8,983.4	14,293.0	8,983.4	OCM, 1/16/2015 00:00
33	5	2/4/2016 08:42	CONVENTIONAL PERF	14,321.0	8,982.8	14,323.0	8,982.7	OCM, 1/16/2015 00:00
33	4	2/4/2016 08:45	CONVENTIONAL PERF	14,351.0	8,982.1	14,353.0	8,982.0	OCM, 1/16/2015 00:00
33	3	2/4/2016 08:44	CONVENTIONAL PERF	14,381.0	8,981.2	14,383.0	8,981.2	OCM, 1/16/2015 00:00
33	2	2/4/2016 08:43	CONVENTIONAL PERF	14,411.0	8,980.3	14,413.0	8,980.2	OCM, 1/16/2015 00:00
33	1	2/4/2016 08:42	CONVENTIONAL PERF	14,441.0	8,979.2	14,443.0	8,979.1	OCM, 1/16/2015 00:00
32	5	2/4/2016 03:36	CONVENTIONAL PERF	14,471.0	8,978.1	14,473.0	8,978.0	OCM, 1/16/2015 00:00
32	4	2/4/2016 03:35	CONVENTIONAL PERF	14,501.0	8,977.0	14,503.0	8,976.9	OCM, 1/16/2015 00:00
32	3	2/4/2016 03:34	CONVENTIONAL PERF	14,531.0	8,976.0	14,533.0	8,975.9	OCM, 1/16/2015 00:00
32	2	2/4/2016 03:33	CONVENTIONAL PERF	14,561.0	8,975.2	14,563.0	8,975.1	OCM, 1/16/2015 00:00
32	1	2/4/2016 03:32	CONVENTIONAL PERF	14,591.0	8,974.7	14,593.0	8,974.7	OCM, 1/16/2015 00:00
31	5	2/3/2016 23:40	CONVENTIONAL PERF	14,621.0	8,974.5	14,623.0	8,974.4	OCM, 1/16/2015 00:00
31	4	2/3/2016 23:39	CONVENTIONAL PERF	14,651.0	8,974.3	14,653.0	8,974.3	OCM, 1/16/2015 00:00
31	3	2/3/2016 23:38	CONVENTIONAL PERF	14,681.0	8,974.1	14,683.0	8,974.0	OCM, 1/16/2015 00:00
31	2	2/3/2016 23:37	CONVENTIONAL PERF	14,711.0	8,973.8	14,713.0	8,973.8	OCM, 1/16/2015 00:00
31	1	2/3/2016 23:36	CONVENTIONAL PERF	14,741.0	8,973.5	14,743.0	8,973.5	OCM, 1/16/2015 00:00
30	5	2/3/2016 20:29	CONVENTIONAL PERF	14,771.0	8,973.2	14,773.0	8,973.2	OCM, 1/16/2015 00:00
30	4	2/3/2016 20:28	CONVENTIONAL PERF	14,801.0	8,972.9	14,803.0	8,972.9	OCM, 1/16/2015 00:00
30	3	2/3/2016 20:27	CONVENTIONAL PERF	14,831.0	8,972.5	14,833.0	8,972.5	OCM, 1/16/2015 00:00
30	2	2/3/2016 20:26	CONVENTIONAL PERF	14,861.0	8,972.0	14,863.0	8,971.9	OCM, 1/16/2015 00:00
30	1	2/3/2016 20:25	CONVENTIONAL PERF	14,891.0	8,971.3	14,893.0	8,971.3	OCM, 1/16/2015 00:00
29	5	2/3/2016 16:33	CONVENTIONAL PERF	14,921.0	8,970.6	14,923.0	8,970.6	OCM, 1/16/2015 00:00
29	4	2/3/2016 16:32	CONVENTIONAL PERF	14,951.0	8,970.0	14,953.0	8,970.0	OCM, 1/16/2015 00:00
29	3	2/3/2016 16:31	CONVENTIONAL PERF	14,981.0	8,969.4	14,983.0	8,969.4	OCM, 1/16/2015 00:00
29	2	2/3/2016 16:30	CONVENTIONAL PERF	15,011.0	8,968.8	15,013.0	8,968.8	OCM, 1/16/2015 00:00
29	1	2/3/2016 16:29	CONVENTIONAL PERF	15,041.0	8,968.2	15,043.0	8,968.1	OCM, 1/16/2015 00:00



UL Perf Schematic

HORIZONTAL - Original, 5/16/2016 8:56:45 AM

Directional schematic (actual)



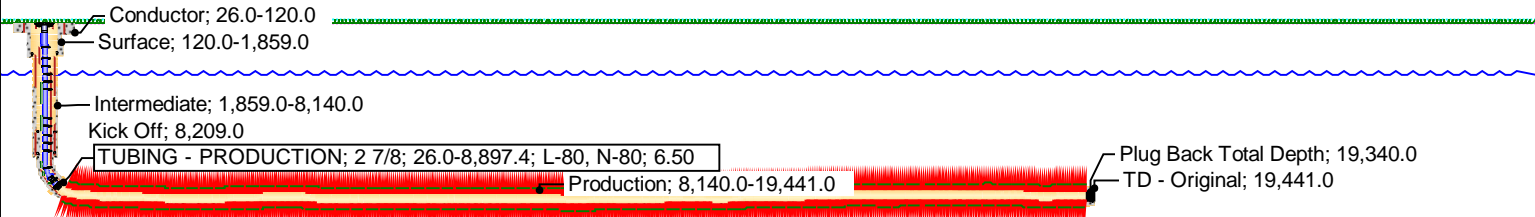
Perforations

Int #	Cluster #	Date	Type	Top (ftKB)	Top (TVD) (ftKB)	Btm (ftKB)	Btm (TVD) (ftKB)	Job
28	5	2/3/2016 12:46	CONVENTIONAL PERF	15,071.0	8,967.4	15,073.0	8,967.3	OCM, 1/16/2015 00:00
28	4	2/3/2016 12:45	CONVENTIONAL PERF	15,101.0	8,966.5	15,103.0	8,966.5	OCM, 1/16/2015 00:00
28	3	2/3/2016 12:44	CONVENTIONAL PERF	15,131.0	8,966.0	15,133.0	8,966.0	OCM, 1/16/2015 00:00
28	2	2/3/2016 12:43	CONVENTIONAL PERF	15,161.0	8,966.0	15,163.0	8,966.0	OCM, 1/16/2015 00:00
28	1	2/3/2016 12:42	CONVENTIONAL PERF	15,191.0	8,966.4	15,193.0	8,966.4	OCM, 1/16/2015 00:00
27	5	2/3/2016 05:32	CONVENTIONAL PERF	15,221.0	8,966.7	15,223.0	8,966.7	OCM, 1/16/2015 00:00
27	4	2/3/2016 05:31	CONVENTIONAL PERF	15,251.0	8,966.9	15,253.0	8,966.9	OCM, 1/16/2015 00:00
27	3	2/3/2016 05:30	CONVENTIONAL PERF	15,281.0	8,966.9	15,283.0	8,966.9	OCM, 1/16/2015 00:00
27	2	2/3/2016 05:29	CONVENTIONAL PERF	15,311.0	8,966.9	15,313.0	8,966.9	OCM, 1/16/2015 00:00
27	1	2/3/2016 05:28	CONVENTIONAL PERF	15,341.0	8,966.8	15,343.0	8,966.7	OCM, 1/16/2015 00:00
26	5	2/3/2016 01:42	CONVENTIONAL PERF	15,371.0	8,966.6	15,373.0	8,966.5	OCM, 1/16/2015 00:00
26	4	2/3/2016 01:41	CONVENTIONAL PERF	15,401.0	8,966.4	15,403.0	8,966.4	OCM, 1/16/2015 00:00
26	3	2/3/2016 01:40	CONVENTIONAL PERF	15,431.0	8,966.5	15,433.0	8,966.5	OCM, 1/16/2015 00:00
26	2	2/3/2016 01:39	CONVENTIONAL PERF	15,461.0	8,966.7	15,463.0	8,966.8	OCM, 1/16/2015 00:00
26	1	2/3/2016 01:38	CONVENTIONAL PERF	15,491.0	8,967.1	15,493.0	8,967.1	OCM, 1/16/2015 00:00
25	5	2/2/2016 22:17	CONVENTIONAL PERF	15,521.0	8,967.4	15,523.0	8,967.4	OCM, 1/16/2015 00:00
25	4	2/2/2016 22:16	CONVENTIONAL PERF	15,551.0	8,967.7	15,553.0	8,967.7	OCM, 1/16/2015 00:00
25	3	2/2/2016 22:15	CONVENTIONAL PERF	15,581.0	8,967.9	15,583.0	8,967.9	OCM, 1/16/2015 00:00
25	2	2/2/2016 22:14	CONVENTIONAL PERF	15,611.0	8,967.9	15,613.0	8,967.9	OCM, 1/16/2015 00:00
25	1	2/2/2016 22:13	CONVENTIONAL PERF	15,641.0	8,967.8	15,643.0	8,967.8	OCM, 1/16/2015 00:00
24	5	2/2/2016 14:49	CONVENTIONAL PERF	15,671.0	8,967.5	15,673.0	8,967.4	OCM, 1/16/2015 00:00
24	4	2/2/2016 14:48	CONVENTIONAL PERF	15,701.0	8,967.0	15,703.0	8,966.9	OCM, 1/16/2015 00:00
24	3	2/2/2016 14:47	CONVENTIONAL PERF	15,731.0	8,966.2	15,733.0	8,966.2	OCM, 1/16/2015 00:00
24	2	2/2/2016 14:46	CONVENTIONAL PERF	15,761.0	8,965.3	15,763.0	8,965.3	OCM, 1/16/2015 00:00
24	1	2/2/2016 14:45	CONVENTIONAL PERF	15,791.0	8,964.2	15,793.0	8,964.1	OCM, 1/16/2015 00:00
23	5	2/2/2016 10:17	CONVENTIONAL PERF	15,821.0	8,962.9	15,823.0	8,962.8	OCM, 1/16/2015 00:00
23	4	2/2/2016 10:16	CONVENTIONAL PERF	15,851.0	8,961.3	15,853.0	8,961.2	OCM, 1/16/2015 00:00
23	3	2/2/2016 10:15	CONVENTIONAL PERF	15,881.0	8,959.9	15,883.0	8,959.8	OCM, 1/16/2015 00:00
23	2	2/2/2016 10:14	CONVENTIONAL PERF	15,911.0	8,958.8	15,913.0	8,958.7	OCM, 1/16/2015 00:00
23	1	2/2/2016 10:13	CONVENTIONAL PERF	15,941.0	8,958.0	15,943.0	8,957.9	OCM, 1/16/2015 00:00
22	5	2/2/2016 05:41	CONVENTIONAL PERF	15,971.0	8,957.4	15,973.0	8,957.4	OCM, 1/16/2015 00:00
22	4	2/2/2016 05:40	CONVENTIONAL PERF	16,001.0	8,957.2	16,003.0	8,957.2	OCM, 1/16/2015 00:00
22	3	2/2/2016 05:39	CONVENTIONAL PERF	16,031.0	8,957.1	16,033.0	8,957.1	OCM, 1/16/2015 00:00
22	2	2/2/2016 05:38	CONVENTIONAL PERF	16,061.0	8,957.2	16,063.0	8,957.2	OCM, 1/16/2015 00:00
22	1	2/2/2016 05:37	CONVENTIONAL PERF	16,091.0	8,957.0	16,093.0	8,957.0	OCM, 1/16/2015 00:00
21	5	2/2/2016 00:36	CONVENTIONAL PERF	16,121.0	8,956.7	16,123.0	8,956.7	OCM, 1/16/2015 00:00
21	4	2/2/2016 00:35	CONVENTIONAL PERF	16,151.0	8,956.2	16,153.0	8,956.2	OCM, 1/16/2015 00:00
21	3	2/2/2016 00:34	CONVENTIONAL PERF	16,181.0	8,955.5	16,183.0	8,955.5	OCM, 1/16/2015 00:00
21	2	2/2/2016 00:33	CONVENTIONAL PERF	16,211.0	8,954.6	16,213.0	8,954.5	OCM, 1/16/2015 00:00
21	1	2/2/2016 00:32	CONVENTIONAL PERF	16,241.0	8,953.6	16,243.0	8,953.5	OCM, 1/16/2015 00:00
20	5	2/1/2016 20:46	CONVENTIONAL PERF	16,271.0	8,952.6	16,273.0	8,952.5	OCM, 1/16/2015 00:00
20	4	2/1/2016 20:45	CONVENTIONAL PERF	16,301.0	8,951.7	16,303.0	8,951.6	OCM, 1/16/2015 00:00
20	3	2/1/2016 20:44	CONVENTIONAL PERF	16,331.0	8,950.9	16,333.0	8,950.9	OCM, 1/16/2015 00:00
20	2	2/1/2016 20:43	CONVENTIONAL PERF	16,361.0	8,950.1	16,363.0	8,950.1	OCM, 1/16/2015 00:00
20	1	2/1/2016 20:44	CONVENTIONAL PERF	16,391.0	8,949.4	16,393.0	8,949.3	OCM, 1/16/2015 00:00
19	5	2/1/2016 12:18	CONVENTIONAL PERF	16,421.0	8,948.6	16,423.0	8,948.5	OCM, 1/16/2015 00:00
19	4	2/1/2016 12:17	CONVENTIONAL PERF	16,451.0	8,947.9	16,453.0	8,947.9	OCM, 1/16/2015 00:00
19	3	2/1/2016 12:16	CONVENTIONAL PERF	16,481.0	8,947.4	16,483.0	8,947.4	OCM, 1/16/2015 00:00
19	2	2/1/2016 12:15	CONVENTIONAL PERF	16,511.0	8,947.0	16,513.0	8,947.0	OCM, 1/16/2015 00:00
19	1	2/1/2016 12:14	CONVENTIONAL PERF	16,541.0	8,946.5	16,543.0	8,946.5	OCM, 1/16/2015 00:00
18	5	2/1/2016 08:30	CONVENTIONAL PERF	16,571.0	8,945.9	16,573.0	8,945.9	OCM, 1/16/2015 00:00
18	4	2/1/2016 08:29	CONVENTIONAL PERF	16,601.0	8,945.2	16,603.0	8,945.1	OCM, 1/16/2015 00:00
18	3	2/1/2016 08:28	CONVENTIONAL PERF	16,631.0	8,944.5	16,633.0	8,944.5	OCM, 1/16/2015 00:00
18	2	2/1/2016 08:27	CONVENTIONAL PERF	16,661.0	8,944.3	16,663.0	8,944.3	OCM, 1/16/2015 00:00
18	1	2/1/2016 08:26	CONVENTIONAL PERF	16,691.0	8,944.5	16,693.0	8,944.5	OCM, 1/16/2015 00:00
17	5	2/1/2016 04:13	CONVENTIONAL PERF	16,721.0	8,944.7	16,723.0	8,944.7	OCM, 1/16/2015 00:00
17	4	2/1/2016 04:12	CONVENTIONAL PERF	16,751.0	8,944.2	16,753.0	8,944.2	OCM, 1/16/2015 00:00
17	3	2/1/2016 04:11	CONVENTIONAL PERF	16,781.0	8,943.0	16,783.0	8,942.9	OCM, 1/16/2015 00:00
17	2	2/1/2016 04:10	CONVENTIONAL PERF	16,811.0	8,941.4	16,813.0	8,941.3	OCM, 1/16/2015 00:00
17	1	2/1/2016 04:09	CONVENTIONAL PERF	16,841.0	8,939.8	16,843.0	8,939.7	OCM, 1/16/2015 00:00
16	5	1/31/2016 23:39	CONVENTIONAL PERF	16,871.0	8,938.2	16,873.0	8,938.1	OCM, 1/16/2015 00:00
16	4	1/31/2016 23:38	CONVENTIONAL PERF	16,901.0	8,936.8	16,903.0	8,936.7	OCM, 1/16/2015 00:00
16	3	1/31/2016 23:37	CONVENTIONAL PERF	16,931.0	8,935.7	16,933.0	8,935.6	OCM, 1/16/2015 00:00
16	2	1/31/2016 23:36	CONVENTIONAL PERF	16,961.0	8,934.9	16,963.0	8,934.8	OCM, 1/16/2015 00:00
16	1	1/31/2016 23:35	CONVENTIONAL PERF	16,991.0	8,934.3	16,993.0	8,934.3	OCM, 1/16/2015 00:00
15	5	1/31/2016 19:41	CONVENTIONAL PERF	17,021.0	8,934.0	17,023.0	8,934.0	OCM, 1/16/2015 00:00
15	4	1/31/2016 19:40	CONVENTIONAL PERF	17,051.0	8,933.9	17,053.0	8,934.0	OCM, 1/16/2015 00:00

UL Perf Schematic

HORIZONTAL - Original, 5/16/2016 8:56:57 AM

Directional schematic (actual)

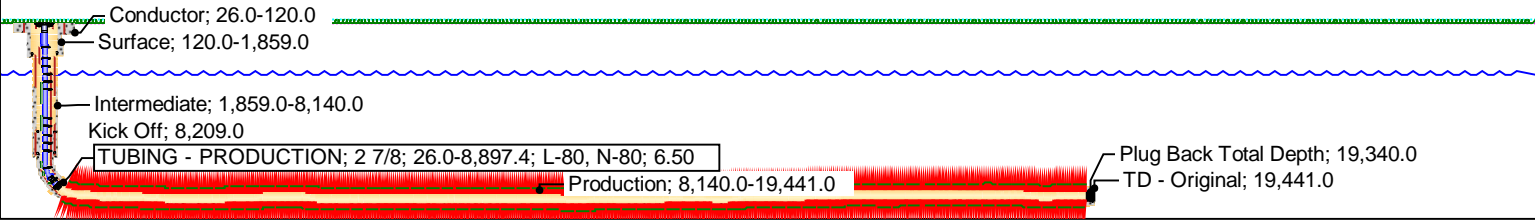


Perforations

Int #	Cluster #	Date	Type	Top (ftKB)	Top (TVD) (ftKB)	Btm (ftKB)	Btm (TVD) (ftKB)	Job
15	3	1/31/2016 19:39	CONVENTIONAL PERF	17,081.0	8,934.1	17,083.0	8,934.2	OCM, 1/16/2015 00:00
15	2	1/31/2016 19:38	CONVENTIONAL PERF	17,111.0	8,934.4	17,113.0	8,934.4	OCM, 1/16/2015 00:00
15	1	1/31/2016 19:37	CONVENTIONAL PERF	17,141.0	8,934.5	17,143.0	8,934.5	OCM, 1/16/2015 00:00
14	5	1/31/2016 16:01	CONVENTIONAL PERF	17,171.0	8,934.6	17,173.0	8,934.6	OCM, 1/16/2015 00:00
14	4	1/31/2016 16:00	CONVENTIONAL PERF	17,201.0	8,934.7	17,203.0	8,934.7	OCM, 1/16/2015 00:00
14	3	1/31/2016 15:59	CONVENTIONAL PERF	17,231.0	8,934.6	17,233.0	8,934.6	OCM, 1/16/2015 00:00
14	2	1/31/2016 15:58	CONVENTIONAL PERF	17,261.0	8,934.6	17,263.0	8,934.6	OCM, 1/16/2015 00:00
14	1	1/31/2016 15:57	CONVENTIONAL PERF	17,291.0	8,934.5	17,293.0	8,934.5	OCM, 1/16/2015 00:00
13	5	1/31/2016 11:45	CONVENTIONAL PERF	17,321.0	8,934.4	17,323.0	8,934.4	OCM, 1/16/2015 00:00
13	4	1/31/2016 11:44	CONVENTIONAL PERF	17,351.0	8,934.3	17,353.0	8,934.3	OCM, 1/16/2015 00:00
13	3	1/31/2016 11:43	CONVENTIONAL PERF	17,381.0	8,934.1	17,383.0	8,934.1	OCM, 1/16/2015 00:00
13	2	1/31/2016 11:42	CONVENTIONAL PERF	17,411.0	8,933.9	17,413.0	8,933.9	OCM, 1/16/2015 00:00
13	1	1/31/2016 11:41	CONVENTIONAL PERF	17,441.0	8,933.6	17,443.0	8,933.6	OCM, 1/16/2015 00:00
12	5	1/31/2016 07:44	CONVENTIONAL PERF	17,471.0	8,933.2	17,473.0	8,933.2	OCM, 1/16/2015 00:00
12	4	1/31/2016 07:43	CONVENTIONAL PERF	17,501.0	8,932.8	17,503.0	8,932.7	OCM, 1/16/2015 00:00
12	3	1/31/2016 07:42	CONVENTIONAL PERF	17,531.0	8,932.2	17,533.0	8,932.1	OCM, 1/16/2015 00:00
12	2	1/31/2016 07:41	CONVENTIONAL PERF	17,561.0	8,931.5	17,563.0	8,931.5	OCM, 1/16/2015 00:00
12	1	1/31/2016 07:40	CONVENTIONAL PERF	17,591.0	8,931.1	17,593.0	8,931.0	OCM, 1/16/2015 00:00
11	5	1/31/2016 07:39	CONVENTIONAL PERF	17,621.0	8,930.8	17,623.0	8,930.8	OCM, 1/16/2015 00:00
11	4	1/31/2016 03:41	CONVENTIONAL PERF	17,651.0	8,930.8	17,653.0	8,930.8	OCM, 1/16/2015 00:00
11	3	1/31/2016 03:40	CONVENTIONAL PERF	17,681.0	8,930.8	17,683.0	8,930.8	OCM, 1/16/2015 00:00
11	2	1/31/2016 03:39	CONVENTIONAL PERF	17,711.0	8,930.7	17,713.0	8,930.6	OCM, 1/16/2015 00:00
11	1	1/31/2016 03:38	CONVENTIONAL PERF	17,741.0	8,930.5	17,743.0	8,930.4	OCM, 1/16/2015 00:00
10	5	1/30/2016 23:20	CONVENTIONAL PERF	17,771.0	8,930.1	17,773.0	8,930.1	OCM, 1/16/2015 00:00
10	4	1/30/2016 23:19	CONVENTIONAL PERF	17,801.0	8,929.6	17,803.0	8,929.5	OCM, 1/16/2015 00:00
10	3	1/30/2016 23:18	CONVENTIONAL PERF	17,831.0	8,928.9	17,833.0	8,928.8	OCM, 1/16/2015 00:00
10	2	1/30/2016 23:17	CONVENTIONAL PERF	17,861.0	8,928.1	17,863.0	8,928.1	OCM, 1/16/2015 00:00
10	1	1/30/2016 23:16	CONVENTIONAL PERF	17,891.0	8,927.6	17,893.0	8,927.5	OCM, 1/16/2015 00:00
9	5	1/30/2016 19:19	CONVENTIONAL PERF	17,921.0	8,927.2	17,923.0	8,927.2	OCM, 1/16/2015 00:00
9	4	1/30/2016 19:18	CONVENTIONAL PERF	17,951.0	8,927.0	17,953.0	8,926.9	OCM, 1/16/2015 00:00
9	3	1/30/2016 19:17	CONVENTIONAL PERF	17,981.0	8,926.8	17,983.0	8,926.8	OCM, 1/16/2015 00:00
9	2	1/30/2016 19:16	CONVENTIONAL PERF	18,011.0	8,926.8	18,013.0	8,926.8	OCM, 1/16/2015 00:00
9	1	1/30/2016 19:15	CONVENTIONAL PERF	18,041.0	8,926.7	18,043.0	8,926.7	OCM, 1/16/2015 00:00
8	5	1/30/2016 15:17	CONVENTIONAL PERF	18,071.0	8,926.3	18,073.0	8,926.3	OCM, 1/16/2015 00:00
8	4	1/30/2016 15:16	CONVENTIONAL PERF	18,101.0	8,925.7	18,103.0	8,925.6	OCM, 1/16/2015 00:00
8	3	1/30/2016 15:15	CONVENTIONAL PERF	18,131.0	8,924.7	18,133.0	8,924.6	OCM, 1/16/2015 00:00
8	2	1/30/2016 15:14	CONVENTIONAL PERF	18,161.0	8,923.7	18,163.0	8,923.6	OCM, 1/16/2015 00:00
8	1	1/30/2016 15:13	CONVENTIONAL PERF	18,191.0	8,922.6	18,193.0	8,922.5	OCM, 1/16/2015 00:00
7	5	1/30/2016 10:28	CONVENTIONAL PERF	18,221.0	8,921.5	18,223.0	8,921.5	OCM, 1/16/2015 00:00
7	4	1/30/2016 10:27	CONVENTIONAL PERF	18,251.0	8,920.9	18,253.0	8,920.8	OCM, 1/16/2015 00:00
7	3	1/30/2016 10:26	CONVENTIONAL PERF	18,281.0	8,920.7	18,283.0	8,920.7	OCM, 1/16/2015 00:00
7	2	1/30/2016 10:25	CONVENTIONAL PERF	18,311.0	8,921.0	18,313.0	8,921.0	OCM, 1/16/2015 00:00
7	1	1/30/2016 10:24	CONVENTIONAL PERF	18,341.0	8,921.7	18,343.0	8,921.7	OCM, 1/16/2015 00:00
6	5	1/30/2016 06:23	CONVENTIONAL PERF	18,371.0	8,922.7	18,373.0	8,922.8	OCM, 1/16/2015 00:00
6	4	1/30/2016 06:22	CONVENTIONAL PERF	18,401.0	8,924.1	18,403.0	8,924.2	OCM, 1/16/2015 00:00
6	3	1/30/2016 06:21	CONVENTIONAL PERF	18,431.0	8,925.4	18,433.0	8,925.5	OCM, 1/16/2015 00:00
6	2	1/30/2016 06:20	CONVENTIONAL PERF	18,461.0	8,926.3	18,463.0	8,926.4	OCM, 1/16/2015 00:00
6	1	1/30/2016 06:19	CONVENTIONAL PERF	18,491.0	8,927.6	18,493.0	8,927.7	OCM, 1/16/2015 00:00
5	5	1/30/2016 02:06	CONVENTIONAL PERF	18,521.0	8,929.1	18,523.0	8,929.2	OCM, 1/16/2015 00:00
5	4	1/30/2016 02:05	CONVENTIONAL PERF	18,551.0	8,930.5	18,553.0	8,930.6	OCM, 1/16/2015 00:00
5	3	1/30/2016 02:04	CONVENTIONAL PERF	18,581.0	8,931.8	18,583.0	8,931.9	OCM, 1/16/2015 00:00
5	2	1/30/2016 02:03	CONVENTIONAL PERF	18,611.0	8,933.1	18,613.0	8,933.1	OCM, 1/16/2015 00:00
5	1	1/30/2016 02:02	CONVENTIONAL PERF	18,641.0	8,934.3	18,643.0	8,934.4	OCM, 1/16/2015 00:00
4	5	1/29/2016 21:29	CONVENTIONAL PERF	18,671.0	8,935.5	18,673.0	8,935.6	OCM, 1/16/2015 00:00
4	4	1/29/2016 21:28	CONVENTIONAL PERF	18,701.0	8,936.8	18,703.0	8,936.9	OCM, 1/16/2015 00:00
4	3	1/29/2016 21:27	CONVENTIONAL PERF	18,731.0	8,937.9	18,733.0	8,938.0	OCM, 1/16/2015 00:00
4	2	1/29/2016 21:26	CONVENTIONAL PERF	18,761.0	8,938.9	18,763.0	8,939.0	OCM, 1/16/2015 00:00
4	1	1/29/2016 21:25	CONVENTIONAL PERF	18,791.0	8,939.7	18,793.0	8,939.8	OCM, 1/16/2015 00:00
3	5	1/29/2016 16:42	CONVENTIONAL PERF	18,821.0	8,940.2	18,823.0	8,940.3	OCM, 1/16/2015 00:00
3	4	1/29/2016 16:41	CONVENTIONAL PERF	18,851.0	8,940.4	18,853.0	8,940.4	OCM, 1/16/2015 00:00
3	3	1/29/2016 16:40	CONVENTIONAL PERF	18,881.0	8,940.1	18,883.0	8,940.1	OCM, 1/16/2015 00:00
3	2	1/29/2016 16:39	CONVENTIONAL PERF	18,911.0	8,939.6	18,913.0	8,939.6	OCM, 1/16/2015 00:00
3	1	1/29/2016 16:38	CONVENTIONAL PERF	18,941.0	8,938.8	18,943.0	8,938.7	OCM, 1/16/2015 00:00
2	5	1/29/2016 09:29	CONVENTIONAL PERF	18,971.0	8,937.6	18,973.0	8,937.6	OCM, 1/16/2015 00:00
2	4	1/29/2016 09:28	CONVENTIONAL PERF	19,001.0	8,936.5	19,003.0	8,936.4	OCM, 1/16/2015 00:00
2	3	1/29/2016 09:27	CONVENTIONAL PERF	19,031.0	8,935.6	19,033.0	8,935.6	OCM, 1/16/2015 00:00
2	2	1/29/2016 09:26	CONVENTIONAL PERF	19,061.0	8,935.0	19,063.0	8,934.9	OCM, 1/16/2015 00:00

UL Perf Schematic

HORIZONTAL - Original, 5/16/2016 8:57:08 AM  
Directional schematic (actual)



Perforations

Int #	Cluster #	Date	Type	Top (ftKB)	Top (TVD) (ftKB)	Btm (ftKB)	Btm (TVD) (ftKB)	Job
2	1	1/29/2016 09:25	CONVENTIONAL PERF	19,091.0	8,934.6	19,093.0	8,934.6	OCM, 1/16/2015 00:00
1	1	1/22/2016 09:24	CONVENTIONAL PERF	19,121.0	8,934.5	19,123.0	8,934.5	OCM, 1/16/2015 00:00
1	2	1/22/2016 17:33	CONVENTIONAL PERF	19,151.0	8,934.8	19,153.0	8,934.8	OCM, 1/16/2015 00:00
1	3	1/22/2016 17:32	CONVENTIONAL PERF	19,181.0	8,935.3	19,183.0	8,935.3	OCM, 1/16/2015 00:00
1	4	1/22/2016 17:31	CONVENTIONAL PERF	19,211.0	8,935.9	19,213.0	8,935.9	OCM, 1/16/2015 00:00
1	5	1/22/2016 17:30	CONVENTIONAL PERF	19,241.0	8,936.6	19,243.0	8,936.6	OCM, 1/16/2015 00:00