

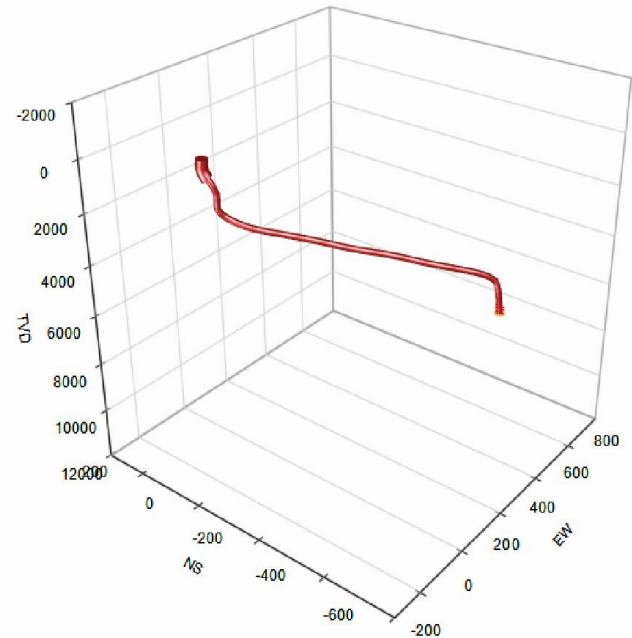
Schematic - Directional Survey with 3D Plot

Well Name: Albrighton 3-10

API/UWI 05-123-37281	Surface Legal Location SWSW Sec 10-6N-64W	Field Name Harlech	License #	State/Province Colorado	Well Configuration Type Deviated
Original KB Elevation (ft) 4,821.00	KB-Tubing Head Distance (ft)	Spud Date 5/25/2013 00:00	Rig Release Date 5/28/2013 00:00	PBTD (All)	Total Depth All (TVD) Original Hole - 7,158.3

Deviated - Original Hole, 3/24/2016 2:50:59 PM

3D schematic (actual)



Wellbore Name Original Hole	Parent Wellbore	Vertical Section Direction (°)
North/South Distance (ft) 1,170.0	North/South Reference FSL	East/West Distance (ft) 1,318.0
		East/West Reference FWL

Kick Offs & Key Depths

Date	Point or Interval	Type	Top Depth (ftKB)	Depth Top (TVD) (ftKB)	Bottom Depth (ftKB)	Depth Bottom (TVD) (ftKB)	Length (ft)

Deviation Surveys

Date 5/31/2013	Definitive? Yes	Description	Proposed? No
MD Tie In (ftKB)	TVD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)
			NS Tie In (ft)
			EW Tie In (ft)

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	87.00	1.10	6.90	86.99	-0.41	0.83	0.10	1.26	1.26	7.93	0.84		
	179.00	0.80	31.80	178.98	-0.89	2.25	0.54	0.55	-0.33	27.07	2.33		
	267.00	0.90	41.00	266.97	-0.88	3.30	1.32	0.19	0.11	10.45	3.63		
	357.00	0.40	114.80	356.97	-0.52	3.70	2.07	0.97	-0.56	82.00	4.48		
	446.00	0.80	147.00	445.96	0.37	3.05	2.69	0.57	0.45	36.18	5.38		
	536.00	1.60	152.40	535.94	2.09	1.41	3.62	0.90	0.89	6.00	7.26		
	626.00	2.20	154.20	625.89	4.74	-1.26	4.95	0.67	0.67	2.00	10.24		
	732.00	2.70	147.00	731.80	8.87	-5.19	7.19	0.55	0.47	-6.79	14.77		
	816.00	3.20	134.70	815.68	13.04	-8.50	9.94	0.96	0.60	-14.64	19.06		
	911.00	3.30	140.30	910.53	18.32	-12.47	13.57	0.35	0.11	5.89	24.44		
	1,006.00	1.80	122.00	1,005.44	22.46	-15.36	16.58	1.78	-1.58	-19.26	28.62		
	1,100.00	1.80	110.40	1,099.39	25.35	-16.66	19.22	0.39	0.00	-12.34	31.56		
	1,194.00	1.80	112.00	1,193.34	28.20	-17.73	21.97	0.05	0.00	1.70	34.51		
	1,289.00	2.10	107.90	1,288.29	31.30	-18.82	25.01	0.35	0.32	-4.32	37.74		
	1,384.00	0.20	41.70	1,383.27	32.97	-19.23	26.78	2.13	-2.00	-69.68	39.55		
	1,478.00	0.90	38.70	1,477.26	33.01	-18.53	27.35	0.75	0.74	-3.19	40.46		
	1,573.00	0.70	46.80	1,572.25	33.15	-17.55	28.24	0.24	-0.21	8.53	41.78		

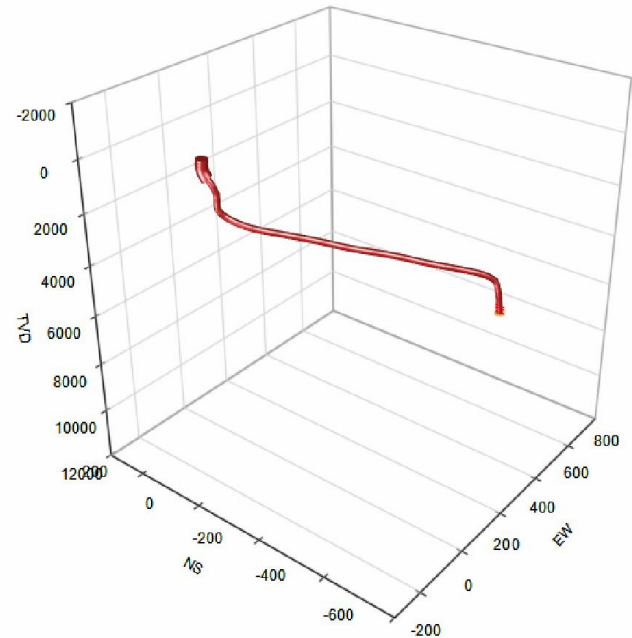
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Original KB Elevation (ft) 4,821.00	KB-Tubing Head Distance (ft)	Spud Date 5/25/2013 00:00	Rig Release Date 5/28/2013 00:00	PBTD (All)	Total Depth All (TVD) Original Hole - 7,158.3

Deviated - Original Hole, 3/24/2016 2:51:00 PM

3D schematic (actual)



Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)	Method	Survey Company
	1,668.00	0.30	48.40	1,667.25	33.31	-16.99	28.85	0.42	-0.42	1.68	42.61		
	1,762.00	0.50	38.90	1,761.25	33.38	-16.51	29.29	0.22	0.21	-10.11	43.26		
	1,857.00	0.40	111.60	1,856.24	33.72	-16.31	29.86	0.57	-0.11	76.53	43.87		
	1,951.00	1.80	119.70	1,950.22	35.50	-17.16	31.44	1.49	1.49	8.62	45.67		
	2,046.00	3.00	122.50	2,045.14	39.47	-19.23	34.84	1.27	1.26	2.95	49.64		
	2,141.00	3.80	109.00	2,139.97	44.95	-21.60	39.91	1.19	0.84	-14.21	55.24		
	2,236.00	4.60	127.30	2,234.72	51.77	-24.93	45.92	1.63	0.84	19.26	62.11		
	2,331.00	6.20	135.40	2,329.30	60.64	-30.89	52.55	1.86	1.68	8.53	71.03		
	2,425.00	7.70	136.40	2,422.61	71.86	-39.07	60.46	1.60	1.60	1.06	82.40		
	2,521.00	8.70	137.80	2,517.62	85.30	-49.10	69.77	1.06	1.04	1.46	96.09		
	2,615.00	11.30	137.10	2,610.19	101.31	-61.12	80.82	2.77	2.77	-0.74	112.41		
	2,711.00	11.70	132.00	2,704.26	120.24	-74.52	94.45	1.14	0.42	-5.31	131.54		
	2,806.00	12.90	127.10	2,797.08	140.42	-87.36	110.07	1.67	1.26	-5.16	151.76		
	2,901.00	14.10	124.80	2,889.46	162.60	-100.36	128.03	1.38	1.26	-2.42	173.93		
	2,996.00	14.90	126.20	2,981.43	186.38	-114.18	147.39	0.92	0.84	1.47	197.71		
	3,090.00	13.90	125.00	3,072.48	209.75	-127.80	166.39	1.11	-1.06	-1.28	221.09		
	3,185.00	15.10	129.70	3,164.45	233.51	-142.25	185.26	1.77	1.26	4.95	244.85		
	3,280.00	13.60	128.50	3,256.48	257.03	-157.10	203.52	1.61	-1.58	-1.26	268.40		
	3,375.00	13.70	122.50	3,348.81	279.41	-170.10	221.75	1.49	0.11	-6.32	290.79		
	3,469.00	12.30	127.80	3,440.40	300.53	-182.22	239.05	1.95	-1.49	5.64	311.91		
	3,563.00	12.70	125.30	3,532.17	320.87	-194.33	255.40	0.72	0.43	-2.66	332.25		
	3,658.00	12.20	128.30	3,624.94	341.35	-206.58	271.80	0.86	-0.53	3.16	352.72		
	3,752.00	13.70	128.70	3,716.54	362.39	-219.70	288.28	1.60	1.60	0.43	373.79		
	3,847.00	14.60	127.80	3,808.66	385.60	-234.07	306.52	0.98	0.95	-0.95	397.01		
	3,942.00	15.30	126.90	3,900.44	410.11	-248.94	326.01	0.78	0.74	-0.95	421.52		
	4,037.00	16.00	126.00	3,991.92	435.73	-264.16	346.62	0.78	0.74	-0.95	447.15		
	4,132.00	15.20	125.70	4,083.42	461.28	-279.12	367.33	0.85	-0.84	-0.32	472.69		
	4,226.00	15.10	128.00	4,174.16	485.84	-293.85	386.98	0.65	-0.11	2.45	497.25		
	4,322.00	14.40	127.50	4,266.99	510.27	-308.82	406.31	0.74	-0.73	-0.52	521.70		

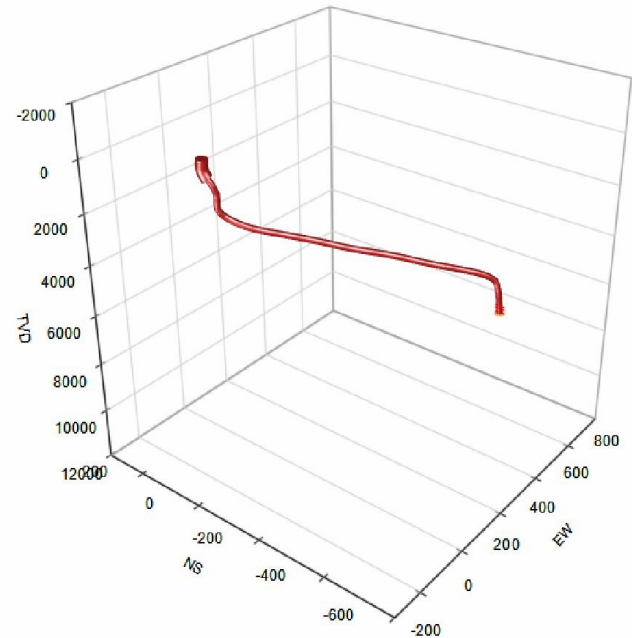
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Deviated - Original Hole, 3/24/2016 2:51:00 PM

3D schematic (actual)



Survey Data

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	4,417.00	13.50	130.50	4,359.19	533.14	-323.21	424.11	1.22	-0.95	3.16	544.59		
	4,511.00	13.10	132.20	4,450.67	554.68	-337.49	440.35	0.60	-0.43	1.81	566.21		
	4,607.00	13.20	127.50	4,544.15	576.46	-351.47	457.10	1.12	0.10	-4.90	588.03		
	4,702.00	14.30	130.10	4,636.43	599.01	-365.63	474.68	1.33	1.16	2.74	610.61		
	4,797.00	14.20	128.20	4,728.51	622.36	-380.40	492.81	0.50	-0.11	-2.00	633.99		
	4,892.00	14.40	125.90	4,820.57	645.82	-394.53	511.54	0.63	0.21	-2.42	657.45		
	4,986.00	13.40	121.00	4,911.81	668.35	-406.99	530.35	1.64	-1.06	-5.21	680.01		
	5,081.00	12.00	122.70	5,004.49	689.17	-418.00	548.09	1.53	-1.47	1.79	700.89		
	5,176.00	13.00	122.20	5,097.24	709.69	-429.03	565.45	1.06	1.05	-0.53	721.46		
	5,271.00	12.80	125.00	5,189.84	730.87	-440.76	583.11	0.69	-0.21	2.95	742.66		
	5,365.00	9.90	121.70	5,281.99	749.34	-450.98	598.52	3.16	-3.09	-3.51	761.15		
	5,459.00	8.70	119.40	5,374.75	764.45	-458.72	611.59	1.34	-1.28	-2.45	776.34		
	5,553.00	7.50	120.40	5,467.82	777.62	-465.31	623.07	1.29	-1.28	1.06	789.58		
	5,648.00	6.20	115.90	5,562.14	788.83	-470.69	633.03	1.48	-1.37	-4.74	800.90		
	5,743.00	4.70	126.60	5,656.71	797.77	-475.25	640.77	1.90	-1.58	11.26	809.89		
	5,837.00	3.00	129.60	5,750.49	804.08	-479.12	645.76	1.82	-1.81	3.19	816.20		
	5,932.00	1.10	174.20	5,845.43	807.17	-481.61	647.77	2.47	-2.00	46.95	819.40		
	6,027.00	1.20	138.00	5,940.41	808.75	-483.25	648.53	0.76	0.11	-38.11	821.21		
	6,215.00	0.80	136.80	6,128.38	811.97	-485.67	650.74	0.21	-0.21	-0.64	824.49		
	6,406.00	1.10	90.90	6,319.36	814.78	-486.67	653.49	0.41	0.16	-24.03	827.41		
	6,595.00	1.00	78.80	6,508.33	817.37	-486.38	656.92	0.13	-0.05	-6.40	830.86		
	6,784.00	0.60	100.60	6,697.31	819.38	-486.24	659.51	0.26	-0.21	11.53	833.45		
	6,974.00	0.60	86.80	6,887.30	821.05	-486.37	661.48	0.08	0.00	-7.26	835.43		
	7,195.00	0.30	99.20	7,108.29	822.45	-486.40	663.21	0.14	-0.14	5.61	837.15		
	7,245.00	0.30	99.20	7,158.29	822.69	-486.44	663.47	0.00	0.00	0.00	837.41		