

47-097-03794 WH6A

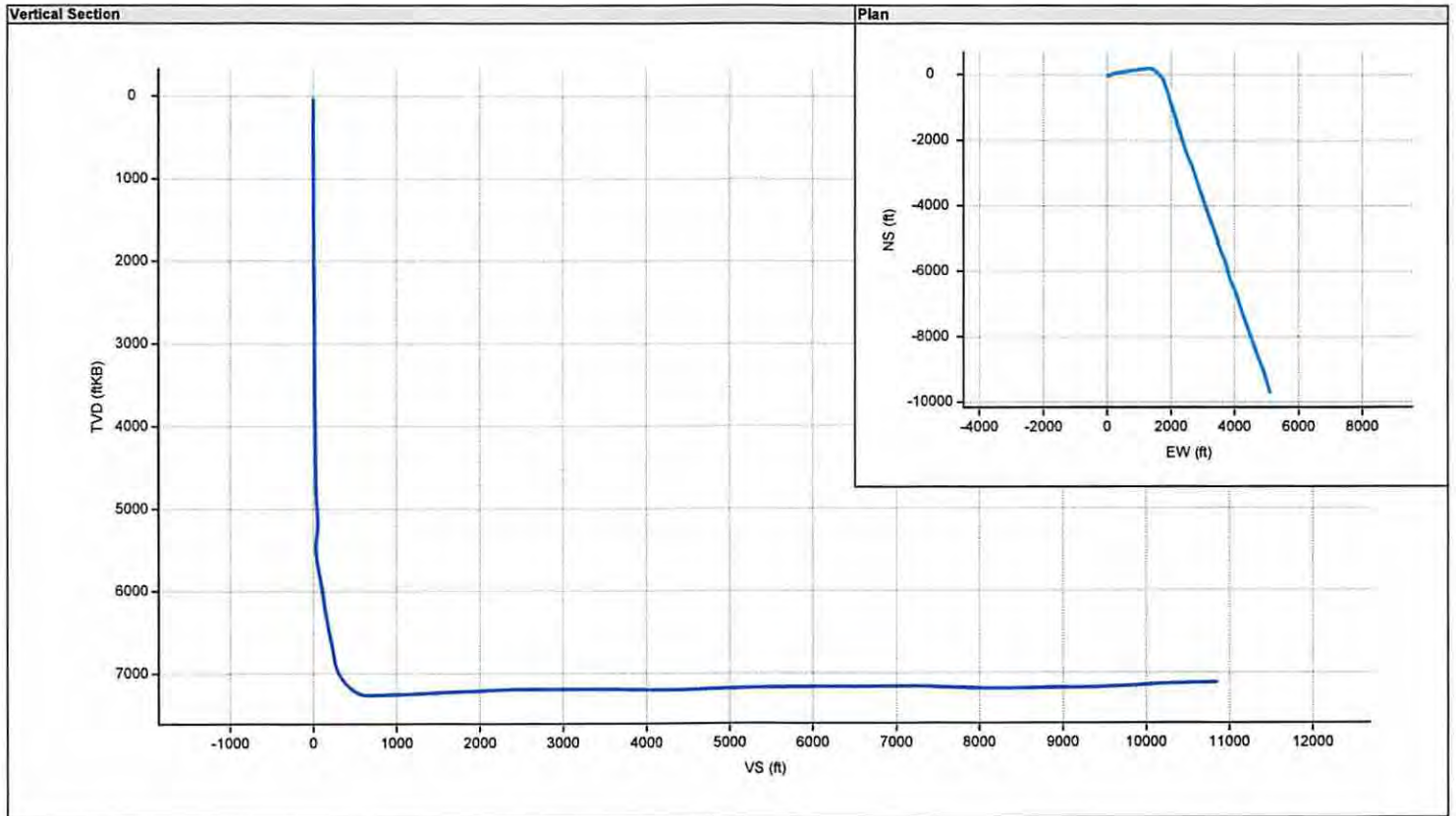
ALT8EHS REWORK  
DRILLING DEEPER



Directional Plot

Well Name: ALT8EHS

API 4709703794	State West Virginia	County Upshur	Well Name ALT8EHS	Well ID WV0970041HS
Operation WV	Field ALTON	Original KB Elevation (ft) 2,486.00	Ground Elevation (ft) 2,461.00	



47-097-03794NH6A

# DEVIATION SURVEY

# ALTBENS REWORK DRILLING DEEPER

Well Header  
 API: 4709703794 State: West Virginia County: Upshur Well Name: ALTBENS Well ID: WV0970041HS  
 Well Status: DRILLING & COMPLETING Operation: WV Field: ALTON Orig KB Elev (ft): 2,486.00 Gr Elev (ft): 2,461.00

Wellbores  
 Wellbore Name: Original Hole Parent Wellbore: Original Hole KO MD (ftKB): VS Dir (°): 160.00  
 Deviation Surveys  
 Date: 2014/01/05 Definitive?: No Des: MWD Prop?: No  
 MD Tie In (ftKB): 25.00 TVDTie In (ftKB): 25.00 Inclination Tie In (°): 0.00 Azimuth Tie In (°): 57.47 NSTie In (ft): 0.00 EWtie In (ft): 0.00  
 Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Method	Survey Company
1/17/2014 5:50		25	0	57.47	25	0	0	0	0 MWD	Baker Hughes INTEQ
1/17/2014 5:50		117	0.63	57.47	117	-0.11	0.27	0.43	0.68 MWD	Baker Hughes INTEQ
1/17/2014 5:50		217	0.63	92.43	216.99	-0.02	0.54	1.44	0.38 MWD	Baker Hughes INTEQ
1/17/2014 5:50		317	0.3	70.66	316.99	0.19	0.61	2.24	0.37 MWD	Baker Hughes INTEQ
1/17/2014 5:50		417	0.57	104.81	416.99	0.48	0.57	2.96	0.36 MWD	Baker Hughes INTEQ
1/17/2014 5:50		517	0.67	133.93	516.98	1.29	0.03	3.87	0.33 MWD	Baker Hughes INTEQ
1/17/2014 5:50		617	0.49	77.57	616.98	1.87	-0.28	4.7	0.57 MWD	Baker Hughes INTEQ
1/17/2014 5:50		717	0.41	98.41	716.97	2.1	-0.24	5.48	0.18 MWD	Baker Hughes INTEQ
1/17/2014 5:50		817	0.37	120.51	816.97	2.52	-0.46	6.11	0.15 MWD	Baker Hughes INTEQ
1/17/2014 5:50		917	0.49	131.24	916.97	3.14	-0.9	6.71	0.14 MWD	Baker Hughes INTEQ
1/17/2014 5:50	1,017.00	1,017.00	0.38	129.31	1,016.97	3.8	-1.39	7.29	0.11 MWD	Baker Hughes INTEQ
1/17/2014 5:50	1,117.00	1,117.00	0.32	185.96	1,116.96	4.34	-1.88	7.51	0.34 MWD	Baker Hughes INTEQ
1/17/2014 5:50	1,217.00	1,217.00	0.44	139.27	1,216.96	4.95	-2.45	7.73	0.32 MWD	Baker Hughes INTEQ
1/17/2014 5:50	1,317.00	1,317.00	0.45	171.42	1,316.96	5.69	-3.13	8.04	0.25 MWD	Baker Hughes INTEQ
1/17/2014 5:50	1,417.00	1,417.00	0.43	106.76	1,416.96	6.3	-3.63	8.46	0.47 MWD	Baker Hughes INTEQ
1/17/2014 5:50	1,517.00	1,517.00	0.56	54.89	1,516.95	6.4	-3.45	9.22	0.45 MWD	Baker Hughes INTEQ
1/17/2014 5:50	1,617.00	1,617.00	0.65	97.89	1,616.95	6.54	-3.25	10.18	0.45 MWD	Baker Hughes INTEQ
1/17/2014 5:50	1,717.00	1,717.00	0.55	136.65	1,716.94	7.24	-3.68	11.07	0.41 MWD	Baker Hughes INTEQ
1/17/2014 5:50	1,817.00	1,817.00	0.61	115.83	1,816.94	8.06	-4.26	11.88	0.22 MWD	Baker Hughes INTEQ
1/17/2014 5:50	1,917.00	1,917.00	0.87	113.95	1,916.93	8.97	-4.8	13.06	0.26 MWD	Baker Hughes INTEQ
1/17/2014 5:50	2,017.00	2,017.00	0.69	102.44	2,016.92	9.82	-5.24	14.34	0.24 MWD	Baker Hughes INTEQ
1/17/2014 5:50	2,117.00	2,117.00	0.73	104.35	2,116.91	10.51	-5.52	15.54	0.05 MWD	Baker Hughes INTEQ
1/17/2014 5:50	2,217.00	2,217.00	0.63	144.19	2,216.91	11.39	-6.13	16.48	0.47 MWD	Baker Hughes INTEQ
1/17/2014 5:50	2,317.00	2,317.00	0.39	109.05	2,316.90	12.14	-6.68	17.12	0.38 MWD	Baker Hughes INTEQ
1/17/2014 5:50	2,417.00	2,417.00	0.53	115.61	2,416.90	12.68	-6.99	17.86	0.15 MWD	Baker Hughes INTEQ
1/17/2014 5:50	2,517.00	2,517.00	0.47	104.69	2,516.90	13.25	-7.3	18.68	0.11 MWD	Baker Hughes INTEQ
1/17/2014 5:50	2,617.00	2,617.00	0.45	124.1	2,616.89	13.8	-7.63	19.4	0.15 MWD	Baker Hughes INTEQ
1/17/2014 5:50	2,717.00	2,717.00	0.44	119.68	2,716.89	14.41	-8.04	20.06	0.04 MWD	Baker Hughes INTEQ
1/17/2014 5:50	2,817.00	2,817.00	0.6	117.45	2,816.88	15.09	-8.47	20.86	0.16 MWD	Baker Hughes INTEQ
1/17/2014 5:50	2,917.00	2,917.00	0.53	107.14	2,916.88	15.75	-8.85	21.76	0.12 MWD	Baker Hughes INTEQ
1/17/2014 5:50	3,017.00	3,017.00	0.34	115.31	3,016.88	16.24	-9.11	22.47	0.2 MWD	Baker Hughes INTEQ
1/17/2014 5:50	3,117.00	3,117.00	0.65	127.14	3,116.87	16.93	-9.58	23.19	0.32 MWD	Baker Hughes INTEQ
1/17/2014 5:50	3,217.00	3,217.00	0.54	114.47	3,216.87	17.74	-10.12	24.07	0.17 MWD	Baker Hughes INTEQ
1/17/2014 5:50	3,317.00	3,317.00	0.41	131.17	3,316.86	18.38	-10.55	24.77	0.19 MWD	Baker Hughes INTEQ
1/17/2014 5:50	3,417.00	3,417.00	0.49	135.04	3,416.86	19.08	-11.08	25.34	0.09 MWD	Baker Hughes INTEQ
1/17/2014 5:50	3,517.00	3,517.00	0.59	98.23	3,516.86	19.71	-11.46	26.15	0.35 MWD	Baker Hughes INTEQ
1/17/2014 5:50	3,617.00	3,617.00	0.45	87.39	3,616.85	20.08	-11.52	27.06	0.17 MWD	Baker Hughes INTEQ
1/17/2014 5:50	3,717.00	3,717.00	0.46	93.86	3,716.85	20.36	-11.53	27.85	0.05 MWD	Baker Hughes INTEQ
1/17/2014 5:50	3,817.00	3,817.00	0.83	111.56	3,816.84	21	-11.82	28.92	0.42 MWD	Baker Hughes INTEQ
1/17/2014 5:50	3,917.00	3,917.00	0.68	145.21	3,916.84	22.05	-12.57	29.94	0.46 MWD	Baker Hughes INTEQ
1/17/2014 5:50	4,017.00	4,017.00	0.9	114.44	4,016.83	23.18	-13.38	30.99	0.47 MWD	Baker Hughes INTEQ
1/17/2014 5:50	4,117.00	4,117.00	1.35	123.54	4,116.81	24.67	-14.36	32.69	0.48 MWD	Baker Hughes INTEQ
1/17/2014 5:50	4,217.00	4,217.00	1.15	106.15	4,216.78	26.21	-15.29	34.63	0.43 MWD	Baker Hughes INTEQ
1/17/2014 5:50	4,317.00	4,317.00	1.25	91.56	4,316.76	27.21	-15.6	36.69	0.32 MWD	Baker Hughes INTEQ
1/17/2014 5:50	4,417.00	4,417.00	1.55	99.33	4,416.73	28.27	-15.85	39.11	0.35 MWD	Baker Hughes INTEQ
1/17/2014 5:50	4,481.00	4,481.00	1.64	100.57	4,480.71	29.16	-16.16	40.87	0.15 MWD	Baker Hughes INTEQ
1/17/2014 5:50	4,570.00	4,570.00	1.44	94.56	4,569.67	30.27	-16.48	43.23	0.29 MWD	Baker Hughes INTEQ
1/17/2014 5:50	4,670.00	4,670.00	0.82	126.24	4,669.66	31.39	-17	45.06	0.86 MWD	Baker Hughes INTEQ
1/17/2014 5:50	4,770.00	4,770.00	2.57	198.69	4,769.62	33.73	-19.55	44.92	2.45 MWD	Baker Hughes INTEQ
1/17/2014 5:50	4,854.00	4,854.00	2.34	183.44	4,853.54	36.78	-23.04	44.21	0.82 MWD	Baker Hughes INTEQ
1/17/2014 5:50	4,900.00	4,900.00	3.03	167.07	4,899.49	38.85	-25.17	44.43	2.23 MWD	Baker Hughes INTEQ
1/17/2014 5:50	5,000.00	5,000.00	5.79	132.27	4,999.20	45.94	-31.14	48.76	3.73 MWD	Baker Hughes INTEQ
1/17/2014 5:50	5,100.00	5,100.00	9.91	86.08	5,098.33	52.79	-33.95	61.09	7.22 MWD	Baker Hughes INTEQ
1/17/2014 5:50	5,200.00	5,200.00	15.7	63.06	5,195.86	53.54	-27.22	81.77	7.61 MWD	Baker Hughes INTEQ
1/17/2014 5:50	5,240.00	5,240.00	19.15	57.62	5,234.02	51.48	-21.25	92.14	9.53 MWD	Baker Hughes INTEQ
1/17/2014 5:50	5,300.00	5,300.00	23.96	53.91	5,289.81	45.99	-8.8	110.3	8.33 MWD	Baker Hughes INTEQ
1/17/2014 5:50	5,348.00	5,348.00	27.45	55.73	5,333.06	40.56	3.18	127.33	7.45 MWD	Baker Hughes INTEQ
1/17/2014 5:50	5,394.00	5,394.00	29.92	60.15	5,373.41	35.98	14.86	146.04	7.08 MWD	Baker Hughes INTEQ
1/17/2014 5:50	5,441.00	5,441.00	32.29	64.16	5,413.66	32.7	26.17	167.51	6.7 MWD	Baker Hughes INTEQ
1/17/2014 5:50	5,488.00	5,488.00	35.75	68.81	5,452.61	31.14	36.61	191.63	9.21 MWD	Baker Hughes INTEQ
1/17/2014 5:50	5,583.00	5,583.00	38.81	73.95	5,528.21	32.61	54.88	246.14	4.59 MWD	Baker Hughes INTEQ
1/17/2014 5:50	5,678.00	5,678.00	38.79	79.66	5,602.27	39.66	68.46	304.04	3.77 MWD	Baker Hughes INTEQ
1/17/2014 5:50	5,772.00	5,772.00	39.27	82.78	5,675.30	51.18	77.48	362.53	2.15 MWD	Baker Hughes INTEQ
1/17/2014 5:50	5,867.00	5,867.00	39.23	83.6	5,748.87	64.9	84.61	422.21	0.55 MWD	Baker Hughes INTEQ
1/17/2014 5:50	5,961.00	5,961.00	38.27	83.73	5,822.18	78.8	91.1	480.68	1.02 MWD	Baker Hughes INTEQ
1/17/2014 5:50	6,055.00	6,055.00	38.29	82.93	5,895.97	92.22	97.87	538.52	0.53 MWD	Baker Hughes INTEQ
1/17/2014 5:50	6,149.00	6,149.00	38.26	82	5,969.76	104.79	105.5	596.25	0.61 MWD	Baker Hughes INTEQ
1/17/2014 5:50	6,243.00	6,243.00	38.27	79.95	6,043.57	115.87	114.63	653.73	1.35 MWD	Baker Hughes INTEQ
1/17/2014 5:50	6,337.00	6,337.00	38.25	77.87	6,117.38	124.89	125.83	710.85	1.37 MWD	Baker Hughes INTEQ
1/17/2014 5:50	6,431.00	6,431.00	39.28	79.58	6,190.68	133.82	137.32	768.56	1.58 MWD	Baker Hughes INTEQ
1/17/2014 5:50	6,525.00	6,525.00	39.2	82.73	6,263.49	145.32	146.47	827.3	2.12 MWD	Baker Hughes INTEQ
1/17/2014 5:50	6,619.00	6,619.00	39.22	83.71	6,336.32	158.91	153.48	886.31	0.66 MWD	Baker Hughes INTEQ
1/17/2014 5:50	6,714.00	6,714.00	39.19	82.9	6,409.94	172.73	160.48	945.95	0.54 MWD	Baker Hughes INTEQ
1/17/2014 5:50	6,808.00	6,808.00	39.27	83	6,482.75	186.05	167.78	1,004.95	0.11 MWD	Baker Hughes INTEQ
1/17/2014 5:50	6,902.00	6,902.00	39.21	84.34	6,555.56	200.1	174.33	1,064.04	0.9 MWD	Baker Hughes INTEQ
1/17/2014 5:50	6,996.00	6,996.00	39.27	84.3	6,628.36	214.81	180.22	1,123.21	0.07 MWD	Baker Hughes INTEQ
1/17/2014 5:50	7,091.00	7,091.00	39.32	83.78	6,701.88	229.41	186.47	1,183.05	0.35 MWD	Baker Hughes INTEQ
1/17/2014 5:50	7,185.00	7,185.00	39.18	81.82	6,774.68	242.58	193.92	1,242.05	1.33 MWD	Baker Hughes INTEQ
1/17/2014 5:50	7,280.00	7,280.00	39.2	82.28	6,848.31	255.12	202.22	1,301.50	0.31 MWD	Baker Hughes INTEQ
1/5/2014 5:50	7,326.00	7,326.00	37.49	87.19	6,884.39	262.35	204.86	1,329.90	7.59 MWD	Baker Hughes INTEQ
1/5/2014 5:50	7,374.00	7,374.00	35.97	96.37	6,922.89	272.93	204.01	1,358.52	11.86 MWD	Baker Hughes INTEQ
1/5/2014 5:50	7,424.00	7,424.00	36.95	104.97	6,963.13	288.08	198.5	1,387.65	10.4 MWD	Baker Hughes INTEQ
1/5/2014 5:50	7,469.00	7,469.00	38.34	112.62	6,998.78	305.29	189.63	1,413.62	10.83 MWD	Baker Hughes INTEQ
1/5/2014 5:50	7,518.00	7,518.00	40.02	118.21	7,036.77	327.34	176.33	1,441.54	7.98 MWD	Baker Hughes INTEQ
1/5/2014 5:50	7,564.00	7,564.00	42.79	121.48	7,071.28	350.6	161.18	1,467.91	7.64 MWD	Baker Hughes INTEQ
1/5/2014 5:50	7,613.00	7,613.00	46.56	123.92	7,106.12	378.01	142.55	1,496.87	8.45 MWD	Baker Hughes INTEQ
1/5/2014 5:50	7,658.00	7,658.00	48.86	129.14	7,136.41	405.77	122.73	1,523.59	9.99 MWD	Baker Hughes INTEQ
1/5/2014 5:50	7,711.00	7,711.00	51.98	133.06	7,170.18	441.53	95.86	1,554.33	8.19 MWD	Baker Hughes INTEQ
1/5/2014 5:50	7,753.00	7,753.00	56.03	133.48	7,194.86	471.88	72.57	1,579.07	9.68 MWD	Baker Hughes INTEQ
1/5/2014 5:50	7,784.00	7,784.00	59.48	133.07	7,211.39	495.29	54.6	1,598.16	11.19 MWD	Baker Hughes INTEQ

47-097-03794WHGA

# DEVIATION SURVEY

# ALTBENS REWORK DRILLING DEEPER

1/5/2014 5:50	8,036.00	91.45	152.81	7,257.33	722.31	-129.86	1,755.11	12.96 MWD	Baker Hughes INTEQ
1/5/2014 5:50	8,086.00	91.48	157.36	7,256.05	772.1	-175.18	1,776.16	9.1 MWD	Baker Hughes INTEQ
1/5/2014 5:50	8,131.00	91.42	159.38	7,254.91	817.06	-216.99	1,792.75	4.49 MWD	Baker Hughes INTEQ
1/5/2014 5:50	8,181.00	91.45	160.02	7,253.66	867.05	-263.87	1,810.09	1.28 MWD	Baker Hughes INTEQ
1/5/2014 5:50	8,225.00	91.48	160.92	7,252.53	911.03	-305.33	1,824.79	2.05 MWD	Baker Hughes INTEQ
1/5/2014 5:50	8,319.00	92.09	160.3	7,249.60	1,004.98	-393.95	1,855.98	0.93 MWD	Baker Hughes INTEQ
1/5/2014 5:50	8,413.00	91.6	160.61	7,246.58	1,098.93	-482.49	1,887.41	0.62 MWD	Baker Hughes INTEQ
1/5/2014 5:50	8,507.00	93.51	164.24	7,242.38	1,192.73	-571.99	1,915.77	4.36 MWD	Baker Hughes INTEQ
1/5/2014 5:50	8,602.00	91.94	162.82	7,237.87	1,287.43	-662.99	1,942.67	2.23 MWD	Baker Hughes INTEQ
1/5/2014 5:50	8,696.00	92.8	163.56	7,233.98	1,381.21	-752.89	1,969.83	1.21 MWD	Baker Hughes INTEQ
1/5/2014 5:50	8,791.00	92.68	162.36	7,229.44	1,475.97	-843.62	1,997.64	1.27 MWD	Baker Hughes INTEQ
1/5/2014 5:50	8,886.00	92.34	160.14	7,225.28	1,570.85	-933.48	2,028.14	2.36 MWD	Baker Hughes INTEQ
1/5/2014 5:50	8,980.00	92.37	159.86	7,221.42	1,664.77	-1,021.74	2,060.26	0.3 MWD	Baker Hughes INTEQ
1/5/2014 5:50	9,075.00	92.31	161.99	7,217.54	1,759.67	-1,111.44	2,091.28	2.24 MWD	Baker Hughes INTEQ
1/5/2014 5:50	9,169.00	92.4	163.15	7,213.67	1,853.50	-1,201.05	2,119.42	1.24 MWD	Baker Hughes INTEQ
1/5/2014 5:50	9,264.00	92.37	163.67	7,209.72	1,948.25	-1,292.01	2,146.52	0.55 MWD	Baker Hughes INTEQ
1/5/2014 5:50	9,358.00	92.4	164.32	7,205.81	2,041.94	-1,382.29	2,172.41	0.69 MWD	Baker Hughes INTEQ
1/5/2014 5:50	9,453.00	92.46	164.41	7,201.78	2,136.58	-1,473.69	2,197.99	0.11 MWD	Baker Hughes INTEQ
1/5/2014 5:50	9,548.00	92.31	164.06	7,197.83	2,231.24	-1,565.04	2,223.78	0.4 MWD	Baker Hughes INTEQ
1/5/2014 5:50	9,643.00	92.28	160.31	7,194.02	2,326.07	-1,655.40	2,252.82	3.94 MWD	Baker Hughes INTEQ
1/5/2014 5:50	9,738.00	90.37	159.64	7,191.83	2,421.04	-1,744.63	2,283.34	2.13 MWD	Baker Hughes INTEQ
1/5/2014 5:50	9,832.00	90.46	160.59	7,191.14	2,515.04	-1,833.02	2,317.31	1.02 MWD	Baker Hughes INTEQ
1/5/2014 5:50	9,926.00	90.8	162.29	7,190.11	2,609.00	-1,922.12	2,347.23	1.84 MWD	Baker Hughes INTEQ
1/5/2014 5:50	10,021.00	89.88	162.07	7,189.55	2,703.93	-2,012.56	2,376.30	1 MWD	Baker Hughes INTEQ
1/5/2014 5:50	10,115.00	89.91	164.66	7,189.72	2,797.76	-2,102.62	2,403.20	2.76 MWD	Baker Hughes INTEQ
1/5/2014 5:50	10,210.00	89.82	164.3	7,189.94	2,892.47	-2,194.15	2,428.62	0.39 MWD	Baker Hughes INTEQ
1/5/2014 5:50	10,304.00	89.88	158.93	7,190.19	2,986.40	-2,283.32	2,458.26	5.71 MWD	Baker Hughes INTEQ
1/5/2014 5:50	10,398.00	89.82	158.2	7,190.44	3,080.37	-2,370.82	2,492.61	0.78 MWD	Baker Hughes INTEQ
1/5/2014 5:50	10,493.00	89.88	157.21	7,190.68	3,175.29	-2,458.72	2,528.65	1.04 MWD	Baker Hughes INTEQ
1/5/2014 5:50	10,588.00	90.03	157.07	7,190.76	3,270.17	-2,546.25	2,565.56	0.22 MWD	Baker Hughes INTEQ
1/5/2014 5:50	10,682.00	90.4	156.09	7,190.41	3,364.00	-2,632.51	2,602.92	1.11 MWD	Baker Hughes INTEQ
1/5/2014 5:50	10,777.00	90.09	156.21	7,190.00	3,458.78	-2,719.40	2,641.33	0.35 MWD	Baker Hughes INTEQ
1/5/2014 5:50	10,872.00	89.75	157.54	7,190.13	3,553.64	-2,806.76	2,678.64	1.45 MWD	Baker Hughes INTEQ
1/5/2014 5:50	10,966.00	89.29	160.77	7,190.92	3,647.61	-2,894.59	2,712.08	3.47 MWD	Baker Hughes INTEQ
1/5/2014 5:50	11,061.00	89.38	161.36	7,192.02	3,742.59	-2,984.45	2,742.91	0.63 MWD	Baker Hughes INTEQ
1/5/2014 5:50	11,155.00	89.29	160.62	7,193.11	3,836.57	-3,073.31	2,773.53	0.79 MWD	Baker Hughes INTEQ
1/5/2014 5:50	11,250.00	89.48	159.88	7,194.13	3,931.56	-3,162.72	2,805.63	0.8 MWD	Baker Hughes INTEQ
1/5/2014 5:50	11,344.00	89.42	160.15	7,195.04	4,025.56	-3,251.05	2,837.75	0.29 MWD	Baker Hughes INTEQ
1/5/2014 5:50	11,439.00	89.38	161.51	7,196.03	4,120.54	-3,340.78	2,868.94	1.43 MWD	Baker Hughes INTEQ
1/5/2014 5:50	11,533.00	89.88	160.72	7,196.64	4,214.52	-3,429.72	2,899.37	0.99 MWD	Baker Hughes INTEQ
1/5/2014 5:50	11,628.00	90.4	160.06	7,196.41	4,309.52	-3,519.20	2,931.25	0.88 MWD	Baker Hughes INTEQ
1/5/2014 5:50	11,722.00	90.37	159.38	7,195.77	4,403.51	-3,607.37	2,963.83	0.72 MWD	Baker Hughes INTEQ
1/5/2014 5:50	11,817.00	91.32	163.37	7,194.37	4,498.46	-3,697.37	2,994.16	4.32 MWD	Baker Hughes INTEQ
1/5/2014 5:50	11,911.00	91.51	162.99	7,192.05	4,592.28	-3,787.32	3,021.35	0.45 MWD	Baker Hughes INTEQ
1/5/2014 5:50	12,005.00	91.48	159.93	7,189.60	4,686.21	-3,876.40	3,051.23	3.25 MWD	Baker Hughes INTEQ
1/5/2014 5:50	12,100.00	91.57	159.34	7,187.07	4,781.17	-3,965.43	3,084.28	0.63 MWD	Baker Hughes INTEQ
1/5/2014 5:50	12,194.00	91.51	159.4	7,184.54	4,875.13	-4,053.37	3,117.38	0.09 MWD	Baker Hughes INTEQ
1/5/2014 5:50	12,289.00	91.54	160.83	7,182.02	4,970.10	-4,142.67	3,149.69	1.51 MWD	Baker Hughes INTEQ
1/5/2014 5:50	12,384.00	91.72	162.19	7,179.31	5,065.02	-4,232.73	3,179.80	1.44 MWD	Baker Hughes INTEQ
1/5/2014 5:50	12,476.00	91.42	160.22	7,176.79	5,156.96	-4,319.79	3,209.43	2.17 MWD	Baker Hughes INTEQ
1/5/2014 5:50	12,572.00	91.48	158.79	7,174.36	5,252.93	-4,409.68	3,243.03	1.49 MWD	Baker Hughes INTEQ
1/5/2014 5:50	12,664.00	90.92	158.7	7,172.44	5,344.88	-4,495.40	3,276.37	0.62 MWD	Baker Hughes INTEQ
1/5/2014 5:50	12,762.00	91.08	159.04	7,170.73	5,442.85	-4,586.80	3,311.70	0.38 MWD	Baker Hughes INTEQ
1/5/2014 5:50	12,857.00	90.86	160.01	7,169.12	5,537.83	-4,675.79	3,344.92	1.05 MWD	Baker Hughes INTEQ
1/5/2014 5:50	12,950.00	90.83	159.77	7,167.75	5,630.82	-4,763.11	3,376.89	0.26 MWD	Baker Hughes INTEQ
1/5/2014 5:50	13,045.00	90.68	159.19	7,166.49	5,725.81	-4,852.07	3,410.19	0.63 MWD	Baker Hughes INTEQ
1/5/2014 5:50	13,140.00	90.4	161.02	7,165.60	5,820.80	-4,941.39	3,442.52	1.95 MWD	Baker Hughes INTEQ
1/5/2014 5:50	13,233.00	90.4	164.6	7,164.95	5,913.67	-5,030.22	3,470.00	3.85 MWD	Baker Hughes INTEQ
1/5/2014 5:50	13,328.00	90.34	164.83	7,164.34	6,008.35	-5,121.86	3,495.04	0.25 MWD	Baker Hughes INTEQ
1/5/2014 5:50	13,424.00	89.82	161.19	7,164.20	6,104.20	-5,213.65	3,523.09	3.83 MWD	Baker Hughes INTEQ
1/5/2014 5:50	13,516.00	89.78	160.84	7,164.52	6,196.18	-5,300.65	3,553.02	0.38 MWD	Baker Hughes INTEQ
1/5/2014 5:50	13,611.00	90.37	158.2	7,164.40	6,291.17	-5,389.64	3,586.25	2.85 MWD	Baker Hughes INTEQ
1/5/2014 5:50	13,706.00	90.34	157.12	7,163.81	6,386.09	-5,477.50	3,622.36	1.14 MWD	Baker Hughes INTEQ
1/5/2014 5:50	13,800.00	90.37	157.72	7,163.23	6,479.99	-5,564.29	3,658.45	0.64 MWD	Baker Hughes INTEQ
1/5/2014 5:50	13,896.00	90.28	155.57	7,162.68	6,575.82	-5,652.42	3,696.51	2.24 MWD	Baker Hughes INTEQ
1/5/2014 5:50	13,989.00	90.37	162.59	7,162.15	6,668.75	-5,739.24	3,729.69	7.55 MWD	Baker Hughes INTEQ
1/5/2014 5:50	14,084.00	90.4	166.08	7,161.52	6,763.46	-5,830.69	3,755.34	3.67 MWD	Baker Hughes INTEQ
1/5/2014 5:50	14,176.00	90.43	165.16	7,160.85	6,855.01	-5,919.81	3,778.19	1 MWD	Baker Hughes INTEQ
1/5/2014 5:50	14,271.00	90.48	167.88	7,160.14	6,949.39	-6,012.18	3,800.33	2.86 MWD	Baker Hughes INTEQ
1/5/2014 5:50	14,366.00	91.13	166.11	7,159.63	7,043.68	-6,104.74	3,821.71	1.88 MWD	Baker Hughes INTEQ
1/5/2014 5:50	14,459.00	90.09	162.11	7,159.41	7,136.42	-6,194.16	3,847.16	4.3 MWD	Baker Hughes INTEQ
1/5/2014 5:50	14,555.00	89.42	153.86	7,159.82	7,232.27	-6,283.09	3,883.12	8.62 MWD	Baker Hughes INTEQ
1/5/2014 5:50	14,648.00	88.25	158.77	7,161.71	7,325.03	-6,368.21	3,920.46	5.43 MWD	Baker Hughes INTEQ
1/5/2014 5:50	14,743.00	88.03	155.66	7,164.80	7,419.86	-6,455.74	3,957.22	3.28 MWD	Baker Hughes INTEQ
1/5/2014 5:50	14,835.00	88.12	156.27	7,167.89	7,511.58	-6,539.71	3,994.67	0.67 MWD	Baker Hughes INTEQ
1/5/2014 5:50	14,931.00	88.06	155.89	7,171.09	7,607.30	-6,627.42	4,033.58	0.4 MWD	Baker Hughes INTEQ
1/5/2014 5:50	15,025.00	88.15	160.85	7,174.20	7,701.18	-6,714.72	4,068.20	5.27 MWD	Baker Hughes INTEQ
1/5/2014 5:50	15,120.00	88.06	162.24	7,177.34	7,796.09	-6,804.79	4,098.25	1.47 MWD	Baker Hughes INTEQ
1/5/2014 5:50	15,215.00	88.09	162.7	7,180.53	7,890.95	-6,895.32	4,126.85	0.48 MWD	Baker Hughes INTEQ
1/5/2014 5:50	15,309.00	88.58	162.66	7,183.26	7,984.81	-6,985.02	4,154.82	0.52 MWD	Baker Hughes INTEQ
1/5/2014 5:50	15,403.00	89.72	162.47	7,184.66	8,078.70	-7,074.69	4,182.58	1.23 MWD	Baker Hughes INTEQ
1/5/2014 5:50	15,498.00	89.97	161.51	7,184.91	8,173.64	-7,165.04	4,212.36	1.04 MWD	Baker Hughes INTEQ
1/5/2014 5:50	15,594.00	90	160.72	7,184.94	8,269.62	-7,255.87	4,243.43	0.82 MWD	Baker Hughes INTEQ
1/5/2014 5:50	15,689.00	90.31	158.94	7,184.68	8,364.62	-7,345.04	4,276.18	1.9 MWD	Baker Hughes INTEQ
1/5/2014 5:50	15,784.00	90.83	159.78	7,183.74	8,459.61	-7,433.93	4,309.67	1.04 MWD	Baker Hughes INTEQ
1/5/2014 5:50	15,880.00	91.35	160.05	7,181.91	8,555.59	-7,524.08	4,342.63	0.61 MWD	Baker Hughes INTEQ
1/5/2014 5:50	15,973.00	90.8	160.13	7,180.17	8,648.57	-7,611.50	4,374.29	0.6 MWD	Baker Hughes INTEQ
1/5/2014 5:50	16,068.00	90.77	160.21	7,178.87	8,743.56	-7,700.86	4,406.52	0.09 MWD	Baker Hughes INTEQ
1/5/2014 5:50	16,162.00	90.83	160.49	7,177.55	8,837.55	-7,789.38	4,438.13	0.3 MWD	Baker Hughes INTEQ
1/5/2014 5:50	16,256.00	90.37	160.35	7,176.57	8,931.54	-7,877.94	4,469.63	0.51 MWD	Baker Hughes INTEQ
1/5/2014 5:50	16,350.00	90.37	159.61	7,175.96	9,025.54	-7,966.26	4,501.80	0.79 MWD	Baker Hughes INTEQ
1/5/2014 5:50	16,445.00	90.68	158.82	7,175.09	9,120.53	-8,055.07	4,535.52	0.89 MWD	Baker Hughes INTEQ
1/5/2014 5:50	16,539.00	90.89	160.01	7,173.80	9,214.51	-8,143.06	4,568.56	1.29 MWD	Baker Hughes INTEQ
1/5/2014 5:50	16,634.00	90.83	159.45	7,172.38	9,309.50	-8,232.16	4,601.47	0.59 MWD	Baker Hughes INTEQ
1/5/2014 5:50	16,729.00	91.51	159.51	7,170.44	9,404.48	-8,32			

47-097-03794WH6A

# DEVIATION SURVEY

## ALTBENS REWORK DRILLING DEEPER

1/17/2014 5:50	17,956.00	91.38	164.52	7,119.72	10,629.30	-9,475.22	5,045.04	0.09	MWD	Baker Hughes INTEQ
1/17/2014 5:50	18,051.00	91.39	162.17	7,117.42	10,724.10	-9,566.20	5,072.26	2.47	MWD	Baker Hughes INTEQ
1/17/2014 5:50	18,145.00	91.38	160.87	7,115.15	10,818.04	-9,655.32	5,102.05	1.38	MWD	Baker Hughes INTEQ
1/17/2014 5:50	18,180.00	91.35	160.07	7,114.32	10,853.03	-9,688.30	5,113.74	2.29	MWD	Baker Hughes INTEQ