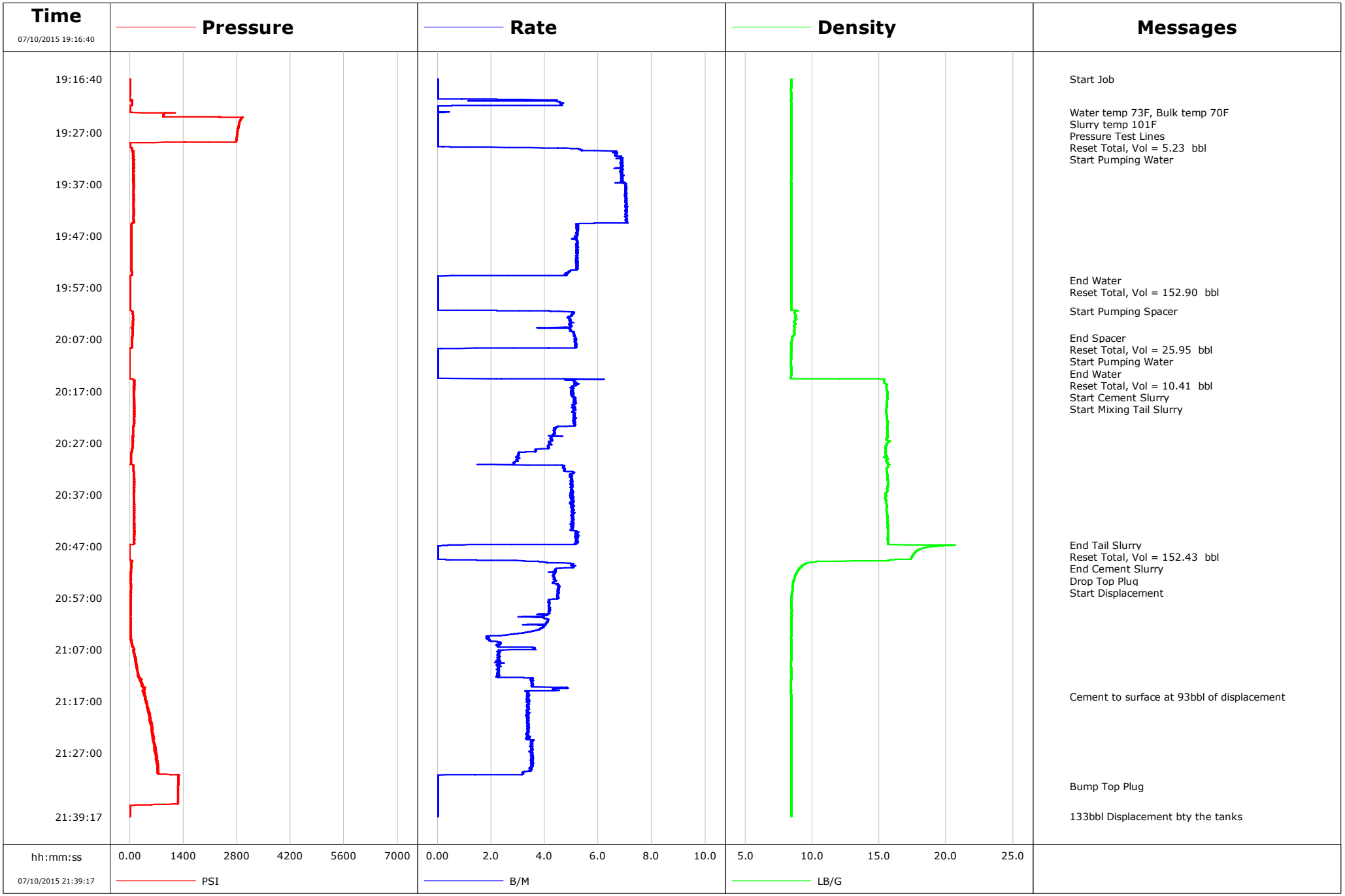
Schlumberger

Cementing Job Report

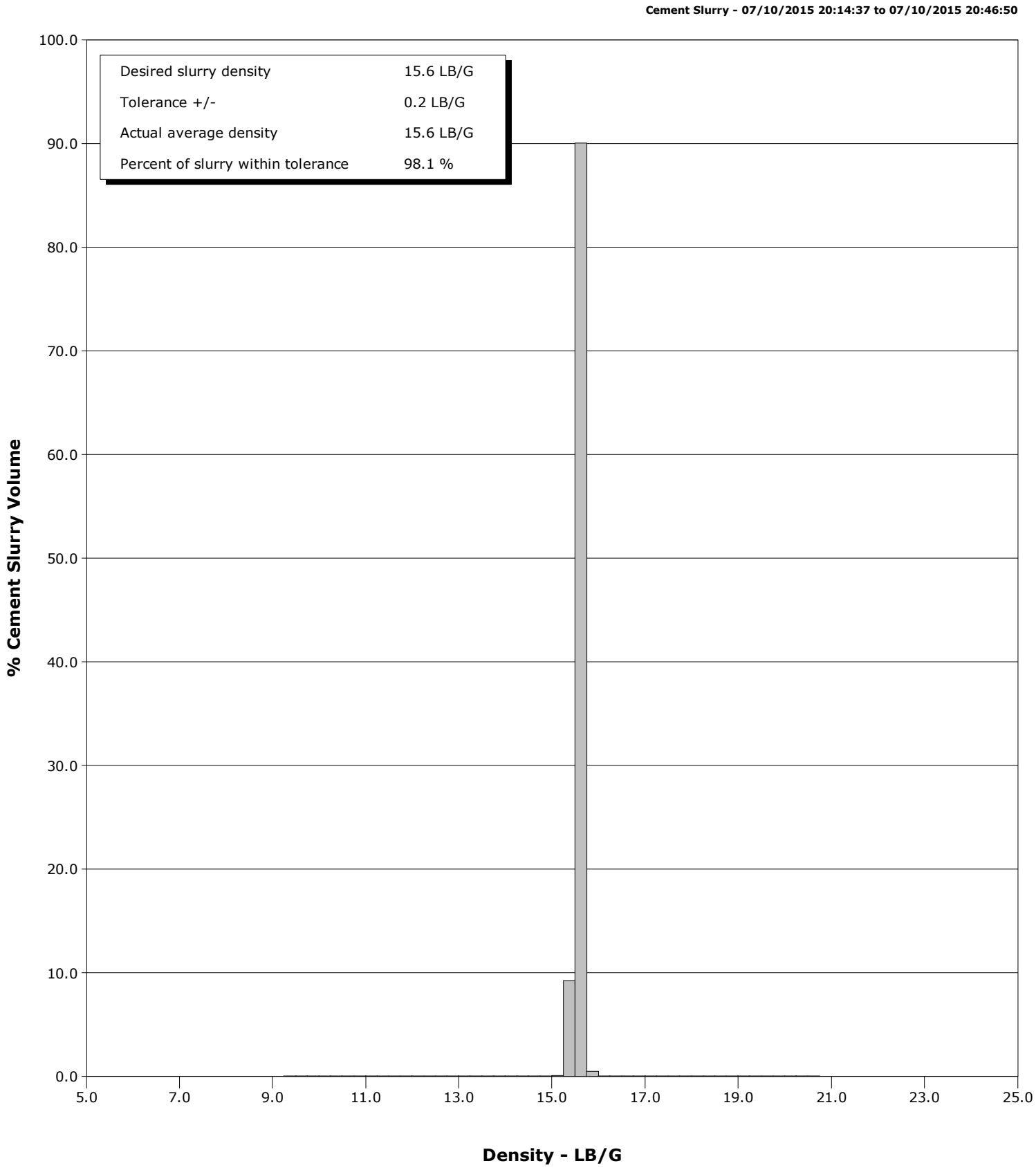
CemCAT v1.6

Well	MIP Unit 3H	**Client**	Northeast Natural Energy LLC
Field	Undesignated	**SIR No.**	DCHA-0053
Engineer	Joshua Richards	**Job Type**	9 5/8" Intermediate
Country	United States	**Job Date**	07-10-2015



Cementing Qa/Qc Density Report

Well	MIP Unit 3H	**Client**	Northeast Natural Energy LLC
Field	Undesignated	**SIR No.**	DCHA-0053
Engineer	Joshua Richards	**Job Type**	9 5/8" Intermediate
Country	United States	**Job Date**	07-10-2015



Schlumberger

Cementing Service Report

Customer	Job Number
Northeast Natural Energy LLC	DCHA-0053

Well	Location (legal)	Schlumberger Location	Job Start
MIP Unit 3H 3H			Jul/10/2015

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
Undesignated	Clean-Sandstone	deg	12.3 in	1827.0 ft	1827.0 ft

County	State/Provinc	BHP	BHST	BHCT	Pore Press. Gradient
Monongalia	West Virginia	1500 psi	79 degF	75 degF	lb/gal
Well Master 631643025	**API/UWI** 4706101707				

Rig Name	Drilled For	Service Via
US Energy 9	Gas	Land

Offshore Zone	Well Class	Well Type
	New	Development

Drilling Fluid Type	Max. Density	Plastic Viscosity
	lb/gal	cP

Service Line	Job Type
Cementing	9 5/8" Intermediate

Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection
psi	psi	Single Cement head

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
504.0	13.4	54.5		
1803.0	9.6	40.0	J55	

Tubing/Drill Pipe

T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread

Perforations/Open Hole

Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval
ft	ft			ft
ft	ft			Diameter
ft	ft			in

Service Instructions

9 5/8" Intermediate

25bbl Gel spacer with D130
10bbl Water behind
140bbl Tail @ 15.6ppg (D901 Class A 654sk, 1.20cuft/sk, 5.251gps, D046 0.2%, S001 2%, D130 0.13%)

Shut down / Drop top plug

133.bbl Displacement

Treat Down	Displacement	Packer Type	Packer Depth
Casing	133.0 bbl		ft

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
bbl	bbl	bbl	bbl

Casing/Tubing Secured	X	1 Hole Vol. Circulated prior to Cement	X

Lift Pressure	903 psi
Pipe Rotated	☐
Pipe Reciprocated	☐
No. Centralizers	16
Top Plugs	1
Bottom Plugs	
Cement Head Type	Single

Job Scheduled For	Arrived on Location	Leave Location
Jul/10/2015 18:00	Jul/10/2015 18:00	Jul/10/2015 23:00

Casing Tools		Squeeze Job	
Shoe Type	Float	Squeeze Type	
Shoe Depth	1803.0 ft	Tool Type	
Stage Tool Type		Tool Depth	ft
Stage Tool Depth	ft	Tail Pipe Size	in
Collar Type	Float	Tail Pipe Depth	ft
Collar Depth	1761.5 ft	Sqz. Total Vol.	bbl

Date	Time 24-hr clock	CPF1_PRESS PSI	CPF1_DENS LB/G	CPF1_DOWNHOLE B/M	CPF1_TTL_STAGE BBL	CMT_DISP_VC BBL	CPF1_TTL_VOLUME BBL	Message
07/10/2015	19:16:40	3	8.43	0.0	0.0	0.0	0.0	Started Acquisition
07/10/2015	19:16:42	3	8.43	0.0	0.0	0.0	0.0	Start Job
07/10/2015	19:17:25	2	8.43	0.0	0.0	0.0	0.0	
07/10/2015	19:18:10	2	8.43	0.0	0.0	0.0	0.0	
07/10/2015	19:18:55	2	8.43	0.0	0.0	0.0	0.0	
07/10/2015	19:19:40	2	8.43	0.0	0.0	0.0	0.0	
07/10/2015	19:20:25	-1	8.43	0.0	0.0	0.0	0.0	
07/10/2015	19:21:10	57	8.43	4.6	2.1	0.0	2.1	
07/10/2015	19:21:55	4	8.44	0.0	0.0	0.0	5.2	
07/10/2015	19:22:40	5	8.44	0.0	0.0	0.0	5.2	
07/10/2015	19:23:00	5	8.44	0.0	0.0	0.0	5.2	Water temp 73F, Bulk temp 70F
07/10/2015	19:23:01	5	8.44	0.0	0.0	0.0	5.2	Slurry temp 101F
07/10/2015	19:23:25	892	8.44	0.0	0.1	0.0	5.2	
07/10/2015	19:24:10	2937	8.44	0.0	0.1	0.0	5.2	
07/10/2015	19:24:55	2872	8.44	0.0	0.1	0.0	5.2	
07/10/2015	19:25:40	2845	8.44	0.0	0.1	0.0	5.2	
07/10/2015	19:25:43	2844	8.44	0.0	0.1	0.0	5.2	Pressure Test Lines
07/10/2015	19:25:46	2841	8.44	0.0	0.1	0.0	5.2	Reset Total, Vol = 5.23 bbl
07/10/2015	19:26:25	2824	8.44	0.0	0.1	0.0	5.2	
07/10/2015	19:27:10	2807	8.44	0.0	0.1	0.0	5.2	
07/10/2015	19:27:55	2792	8.44	0.0	0.1	0.0	5.2	

Well	Field	Job Start	Customer	Job Number
MIP Unit 3H 3H	Unddesignated	Jul/10/2015	Northeast Natural Energy LLC	DCHA-0053

Date	Time 24-hr clock	CPF1_PRESS PSI	CPF1_DENS LB/G	CPF1_DOWNHOLE B/M	CPF1_TTL_STAGE BBL	CMT_DISP_VC BBL	CPF1_TTL_VOLUME BBL	Message
07/10/2015	19:29:25	6	8.44	0.0	0.1	0.0	5.2	
07/10/2015	19:30:10	62	8.43	5.2	1.2	0.0	6.3	
07/10/2015	19:30:11	61	8.43	5.3	1.3	0.0	6.4	Start Pumping Water
07/10/2015	19:30:55	88	8.44	6.6	5.6	0.0	10.8	
07/10/2015	19:31:40	100	8.44	6.8	10.6	0.0	15.8	
07/10/2015	19:32:25	97	8.44	6.9	15.8	0.0	20.9	
07/10/2015	19:33:10	97	8.44	6.9	20.9	0.0	26.1	
07/10/2015	19:33:55	95	8.44	6.7	26.1	0.0	31.2	
07/10/2015	19:34:40	99	8.44	6.9	31.2	0.0	36.4	
07/10/2015	19:35:25	102	8.44	6.9	36.4	0.0	41.6	
07/10/2015	19:36:10	97	8.43	6.9	41.5	0.0	46.7	
07/10/2015	19:36:55	103	8.43	7.0	46.7	0.0	51.9	
07/10/2015	19:37:40	108	8.44	7.0	52.0	0.0	57.2	
07/10/2015	19:38:25	102	8.44	7.0	57.3	0.0	62.4	
07/10/2015	19:39:55	94	8.44	7.1	67.8	0.0	73.0	
07/10/2015	19:40:40	103	8.44	7.0	73.1	0.0	78.2	
07/10/2015	19:41:25	103	8.43	7.0	78.3	0.0	83.5	
07/10/2015	19:42:10	99	8.43	7.0	83.6	0.0	88.8	
07/10/2015	19:42:55	106	8.44	7.0	88.9	0.0	94.1	
07/10/2015	19:43:40	103	8.44	7.1	94.2	0.0	99.4	
07/10/2015	19:44:25	108	8.44	7.1	99.5	0.0	104.6	
07/10/2015	19:45:10	50	8.44	5.2	103.7	0.0	108.9	
07/10/2015	19:45:55	48	8.44	5.2	107.6	0.0	112.8	
07/10/2015	19:46:40	46	8.44	5.2	111.5	0.0	116.7	
07/10/2015	19:47:25	46	8.43	5.2	115.4	0.0	120.6	
07/10/2015	19:48:10	47	8.44	5.2	119.3	0.0	124.4	
07/10/2015	19:48:55	47	8.44	5.2	123.2	0.0	128.4	
07/10/2015	19:49:40	48	8.44	5.2	127.1	0.0	132.3	
07/10/2015	19:50:25	47	8.44	5.2	131.0	0.0	136.2	
07/10/2015	19:51:10	48	8.43	5.2	134.9	0.0	140.1	
07/10/2015	19:51:55	47	8.44	5.2	138.8	0.0	144.0	
07/10/2015	19:52:40	47	8.44	5.2	142.7	0.0	147.9	
07/10/2015	19:53:25	46	8.44	5.2	146.6	0.0	151.8	
07/10/2015	19:54:10	56	8.44	4.9	150.4	0.0	155.5	
07/10/2015	19:54:55	1	8.44	0.0	153.0	0.0	158.1	
07/10/2015	19:55:33	5	8.44	0.0	0.0	0.0	158.1	End Water
07/10/2015	19:55:36	5	8.44	0.0	0.0	0.0	158.1	Reset Total, Vol = 152.90 bbl
07/10/2015	19:55:40	5	8.44	0.0	0.0	0.0	158.1	
07/10/2015	19:56:25	6	8.44	0.0	0.0	0.0	158.1	
07/10/2015	19:57:10	6	8.44	0.0	0.0	0.0	158.1	
07/10/2015	19:57:55	6	8.44	0.0	0.0	0.0	158.1	
07/10/2015	19:58:40	6	8.44	0.0	0.0	0.0	158.1	
07/10/2015	19:59:25	6	8.44	0.0	0.0	0.0	158.1	
07/10/2015	20:00:10	6	8.44	0.0	0.0	0.0	158.1	
07/10/2015	20:00:55	7	8.44	0.0	0.0	0.0	158.1	
07/10/2015	20:01:29	42	9.00	3.1	0.1	0.0	158.2	Start Pumping Spacer
07/10/2015	20:01:40	74	8.69	5.0	0.8	0.0	159.0	
07/10/2015	20:02:25	87	8.75	5.0	4.6	0.0	162.7	
07/10/2015	20:03:10	92	8.78	4.9	8.3	0.0	166.4	
07/10/2015	20:03:55	77	8.72	5.0	12.0	0.0	170.2	
07/10/2015	20:04:40	71	8.67	5.0	15.7	0.0	173.9	
07/10/2015	20:05:25	71	8.64	5.0	19.3	0.0	177.5	
07/10/2015	20:06:10	68	8.64	5.1	23.1	0.0	181.3	
07/10/2015	20:06:40	66	8.50	5.1	0.6	0.0	183.8	End Spacer

Well	Field	Job Start	Customer	Job Number
MIP Unit 3H 3H	Undesignated	Jul/10/2015	Northeast Natural Energy LLC	DCHA-0053

Date	Time 24-hr clock	CPF1_PRESS PSI	CPF1_DENS LB/G	CPF1_DOWNHOLE B/M	CPF1_TTL_STAGE BBL	CMT_DISP_VC BBL	CPF1_TTL_VOLUME BBL	Message
07/10/2015	20:06:45	65	8.49	5.1	1.0	0.0	184.3	Start Pumping Water
07/10/2015	20:06:55	62	8.49	5.2	1.9	0.0	185.1	
07/10/2015	20:07:40	59	8.43	5.1	5.7	0.0	189.0	
07/10/2015	20:08:25	59	8.43	5.2	9.6	0.0	192.8	
07/10/2015	20:08:45	-7	8.41	0.8	11.2	0.0	194.5	End Water
07/10/2015	20:08:48	-7	8.42	0.0	0.0	0.0	194.5	Reset Total, Vol = 10.41 bbl
07/10/2015	20:09:10	-7	8.43	0.0	0.0	0.0	194.5	
07/10/2015	20:09:55	-7	8.43	0.0	0.0	0.0	194.5	
07/10/2015	20:10:40	-7	8.43	0.0	0.0	0.0	194.5	
07/10/2015	20:11:25	-6	8.43	0.0	0.0	0.0	194.5	
07/10/2015	20:12:10	-7	8.43	0.0	0.0	0.0	194.5	
07/10/2015	20:12:55	-7	8.44	0.0	0.0	0.0	194.5	
07/10/2015	20:13:40	-7	8.44	0.0	0.0	0.0	194.5	
07/10/2015	20:14:25	-6	8.40	0.0	0.0	0.0	194.5	
07/10/2015	20:14:37	2	9.44	2.2	0.0	0.0	194.5	Start Cement Slurry
07/10/2015	20:14:47	100	15.37	5.3	0.7	0.0	195.2	Start Mixing Tail Slurry
07/10/2015	20:15:10	112	15.35	5.1	2.7	0.0	197.1	
07/10/2015	20:15:55	117	15.58	5.1	6.5	0.0	201.0	
07/10/2015	20:16:40	104	15.55	5.0	10.3	0.0	204.8	
07/10/2015	20:17:25	104	15.61	5.1	14.1	0.0	208.6	
07/10/2015	20:18:10	110	15.60	5.1	17.9	0.0	212.3	
07/10/2015	20:18:55	121	15.56	5.1	21.7	0.0	216.2	
07/10/2015	20:19:40	122	15.54	5.0	25.5	0.0	220.0	
07/10/2015	20:20:25	121	15.51	5.1	29.3	0.0	223.8	
07/10/2015	20:21:10	122	15.51	5.1	33.2	0.0	227.6	
07/10/2015	20:21:55	122	15.56	5.1	37.0	0.0	231.5	
07/10/2015	20:22:40	112	15.58	5.1	40.8	0.0	235.3	
07/10/2015	20:23:25	106	15.63	5.1	44.6	0.0	239.1	
07/10/2015	20:24:10	85	15.59	4.4	48.3	0.0	242.7	
07/10/2015	20:24:55	85	15.59	4.4	51.5	0.0	246.0	
07/10/2015	20:25:40	75	15.59	4.2	54.8	0.0	249.3	
07/10/2015	20:26:25	77	15.51	4.2	58.0	0.0	252.5	
07/10/2015	20:27:10	76	15.53	4.2	61.2	0.0	255.6	
07/10/2015	20:27:55	71	15.46	4.1	64.3	0.0	258.8	
07/10/2015	20:28:40	56	15.46	3.7	67.2	0.0	261.7	
07/10/2015	20:29:25	38	15.49	3.0	69.5	0.0	264.0	
07/10/2015	20:30:10	38	15.64	3.0	71.8	0.0	266.3	
07/10/2015	20:30:55	34	15.61	2.8	74.0	0.0	268.5	
07/10/2015	20:31:40	98	15.64	4.7	76.7	0.0	271.2	
07/10/2015	20:32:25	99	15.56	4.7	80.2	0.0	274.7	
07/10/2015	20:33:10	110	15.60	5.0	84.0	0.0	278.5	
07/10/2015	20:33:55	113	15.63	5.0	87.7	0.0	282.2	
07/10/2015	20:34:40	105	15.63	5.0	91.5	0.0	285.9	
07/10/2015	20:35:25	104	15.62	5.0	95.2	0.0	289.7	
07/10/2015	20:36:10	103	15.59	5.0	99.0	0.0	293.4	
07/10/2015	20:36:55	109	15.46	5.0	102.7	0.0	297.2	
07/10/2015	20:37:40	109	15.44	5.0	106.5	0.0	301.0	
07/10/2015	20:38:25	110	15.51	5.1	110.3	0.0	304.7	
07/10/2015	20:39:10	111	15.56	5.1	114.0	0.0	308.5	
07/10/2015	20:39:55	111	15.55	5.0	117.8	0.0	312.3	
07/10/2015	20:40:40	112	15.58	5.1	121.6	0.0	316.1	
07/10/2015	20:41:25	112	15.62	5.1	125.4	0.0	319.9	
07/10/2015	20:42:10	113	15.62	5.1	129.2	0.0	323.6	
07/10/2015	20:42:55	112	15.64	5.0	132.9	0.0	327.4	

Well	Field	Job Start	Customer	Job Number
MIP Unit 3H 3H	Undesignated	Jul/10/2015	Northeast Natural Energy LLC	DCHA-0053

Date	Time 24-hr clock	CPF1_PRESS PSI	CPF1_DENS LB/G	CPF1_DOWNHOLE B/M	CPF1_TTL_STAGE BBL	CMT_DISP_VC BBL	CPF1_TTL_VOLUME BBL	Message
07/10/2015	20:44:25	117	15.64	5.2	140.5	0.0	335.0	
07/10/2015	20:45:10	118	15.64	5.2	144.4	0.0	338.9	
07/10/2015	20:45:55	115	15.63	5.2	148.3	0.0	342.8	
07/10/2015	20:46:40	12	15.64	2.8	152.2	0.0	346.7	
07/10/2015	20:46:45	-7	19.46	0.7	152.4	0.0	346.9	End Tail Slurry
07/10/2015	20:46:47	-5	20.40	0.6	152.4	0.0	346.9	Reset Total, Vol = 152.43 bbl
07/10/2015	20:46:50	-5	20.55	0.4	152.4	0.0	346.9	End Cement Slurry
07/10/2015	20:47:25	-4	18.24	0.0	0.0	0.0	347.0	
07/10/2015	20:47:55	-5	17.79	0.0	0.0	0.0	347.0	Drop Top Plug
07/10/2015	20:48:10	-5	17.69	0.0	0.0	0.0	347.0	
07/10/2015	20:48:55	-6	17.47	0.0	0.0	0.0	347.0	
07/10/2015	20:48:56	-5	17.47	0.0	0.0	0.0	347.0	Start Displacement
07/10/2015	20:49:40	8	15.85	1.2	0.1	0.0	347.0	
07/10/2015	20:50:25	43	9.48	5.0	2.8	2.8	349.7	
07/10/2015	20:51:10	39	9.13	5.1	6.6	6.5	353.5	
07/10/2015	20:51:55	28	8.88	4.4	9.9	9.9	356.9	
07/10/2015	20:52:40	26	8.73	4.3	13.2	13.2	360.1	
07/10/2015	20:53:25	26	8.64	4.4	16.4	16.4	363.4	
07/10/2015	20:54:10	25	8.57	4.3	19.7	19.7	366.7	
07/10/2015	20:54:55	27	8.54	4.5	23.1	23.1	370.0	
07/10/2015	20:55:40	25	8.52	4.5	26.5	26.5	373.4	
07/10/2015	20:56:25	26	8.47	4.5	29.8	29.8	376.8	
07/10/2015	20:57:10	25	8.45	4.5	33.2	33.2	380.2	
07/10/2015	20:57:55	20	8.45	4.2	36.4	36.3	383.3	
07/10/2015	20:58:40	20	8.45	4.2	39.5	39.5	386.4	
07/10/2015	20:59:25	21	8.48	4.2	42.6	42.6	389.6	
07/10/2015	21:00:10	12	8.45	3.7	45.7	45.7	392.7	
07/10/2015	21:00:55	22	8.45	4.0	48.6	48.6	395.5	
07/10/2015	21:01:40	21	8.44	4.1	51.7	51.6	398.6	
07/10/2015	21:02:25	22	8.44	3.9	54.6	54.6	401.5	
07/10/2015	21:03:10	21	8.44	3.8	57.5	57.5	404.5	
07/10/2015	21:03:55	23	8.44	3.0	60.1	60.1	407.0	
07/10/2015	21:04:40	30	8.42	1.8	61.9	61.8	408.8	
07/10/2015	21:05:25	43	8.44	2.2	63.3	63.3	410.2	
07/10/2015	21:06:10	69	8.44	2.3	65.0	65.0	411.9	
07/10/2015	21:06:55	108	8.44	3.6	67.2	67.2	414.1	
07/10/2015	21:07:40	111	8.44	2.3	69.1	69.1	416.0	
07/10/2015	21:08:25	134	8.44	2.3	70.8	70.8	417.8	
07/10/2015	21:09:10	165	8.44	2.3	72.5	72.5	419.5	
07/10/2015	21:09:55	166	8.43	2.3	74.2	74.2	421.2	
07/10/2015	21:10:40	180	8.43	2.3	76.0	75.9	422.9	
07/10/2015	21:11:25	209	8.43	2.3	77.7	77.6	424.6	
07/10/2015	21:12:10	217	8.43	2.2	79.3	79.3	426.3	
07/10/2015	21:12:55	276	8.43	3.5	81.7	81.6	428.6	
07/10/2015	21:13:40	301	8.43	3.6	84.3	84.3	431.2	
07/10/2015	21:14:25	355	8.43	4.8	87.1	87.1	434.1	
07/10/2015	21:15:10	354	8.42	3.4	90.3	90.3	437.2	
07/10/2015	21:15:55	393	8.43	3.4	92.8	92.8	439.7	
07/10/2015	21:16:00	397	8.44	3.4	93.1	93.1	440.0	Cement to surface at 93bbl of displacement
07/10/2015	21:16:40	435	8.44	3.4	95.3	95.3	442.3	
07/10/2015	21:17:25	443	8.44	3.4	97.9	97.8	444.8	
07/10/2015	21:18:10	455	8.44	3.4	100.4	100.4	447.3	
07/10/2015	21:18:55	481	8.44	3.4	102.9	102.9	449.9	
07/10/2015	21:19:40	503	8.44	3.4	105.5	105.4	452.4	

Well	Field	Job Start	Customer	Job Number
MIP Unit 3H 3H	Undesignated	Jul/10/2015	Northeast Natural Energy LLC	DCHA-0053

Date	Time 24-hr clock	CPF1_PRESS PSI	CPF1_DENS LB/G	CPF1_DOWNHOLE_ B/M	CPF1_TTL_STAGE BBL	CMT_DISP_VC BBL	CPF1_TTL_VOLUME BBL	Message
07/10/2015	21:21:10	536	8.44	3.4	110.5	110.5	457.5	
07/10/2015	21:21:55	591	8.44	3.4	113.0	113.0	460.0	
07/10/2015	21:22:40	581	8.44	3.4	115.6	115.6	462.5	
07/10/2015	21:23:25	588	8.44	3.4	118.1	118.1	465.0	
07/10/2015	21:24:10	610	8.43	3.3	120.6	120.6	467.6	
07/10/2015	21:24:55	617	8.44	3.5	123.2	123.2	470.2	
07/10/2015	21:25:40	642	8.44	3.6	125.9	125.9	472.8	
07/10/2015	21:26:25	643	8.44	3.5	128.5	128.5	475.5	
07/10/2015	21:27:10	666	8.44	3.5	131.1	131.1	478.1	
07/10/2015	21:27:55	682	8.44	3.6	133.8	133.8	480.7	
07/10/2015	21:28:40	688	8.44	3.5	136.4	136.4	483.4	
07/10/2015	21:29:25	719	8.44	3.5	139.1	139.1	486.0	
07/10/2015	21:30:10	739	8.44	3.5	141.7	141.7	488.7	
07/10/2015	21:30:55	746	8.44	3.2	144.2	144.2	491.2	
07/10/2015	21:31:40	1269	8.44	0.0	145.2	145.1	492.1	
07/10/2015	21:32:25	1268	8.44	0.0	145.2	145.1	492.1	
07/10/2015	21:33:10	1266	8.44	0.0	145.2	145.1	492.1	
07/10/2015	21:33:24	1265	8.44	0.0	145.2	145.1	492.1	Bump Top Plug
07/10/2015	21:33:55	1263	8.44	0.0	145.2	145.1	492.1	
07/10/2015	21:34:40	1262	8.44	0.0	145.2	145.1	492.1	
07/10/2015	21:35:25	1260	8.44	0.0	145.2	145.1	492.1	
07/10/2015	21:36:10	1258	8.44	0.0	145.2	145.1	492.1	
07/10/2015	21:36:55	903	8.44	0.0	145.2	145.1	492.1	
07/10/2015	21:37:40	2	8.44	0.0	145.2	145.1	492.1	
07/10/2015	21:38:25	2	8.44	0.0	145.2	145.1	492.1	
07/10/2015	21:39:10	3	8.44	0.0	0.0	145.1	492.1	

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
4.5			7.8	492.1	0.0	183.9	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
2955	2	287	1275		FreshWater	bbl	8.34 lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume
%	140.0 bbl	145.1 bbl	73 degF	[X]	40.0 bbl
				Washed Thru Perfs [ ]	To ft

Customer or Authorized Representative	Schlumberger Supervisor	Circulation Lost	Job Completed
Jim Cover	Joshua Richards	-	[X] -