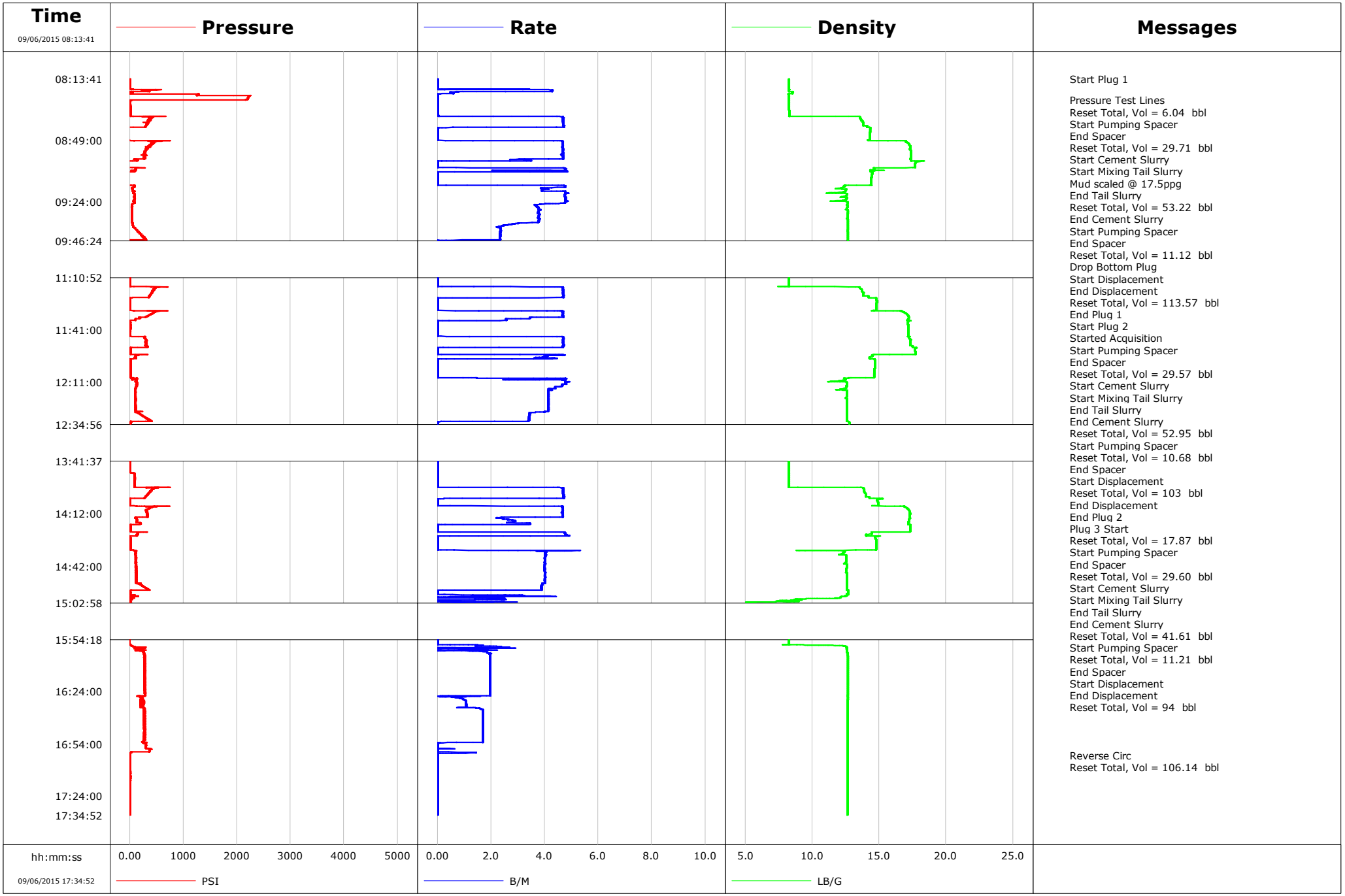
Schlumberger

Cementing Job Report

CemCAT v1.6

Well	MIP UNIT 3H	**Client**	NORTHEAST NATURAL ENERGY LLC
Field	UNDESIGNAT	**SIR No.**	DCHA-00109
Engineer	TJ Williams	**Job Type**	Kick Plug
Country	United States	**Job Date**	09-06-2015



Messages

Start Plug 1

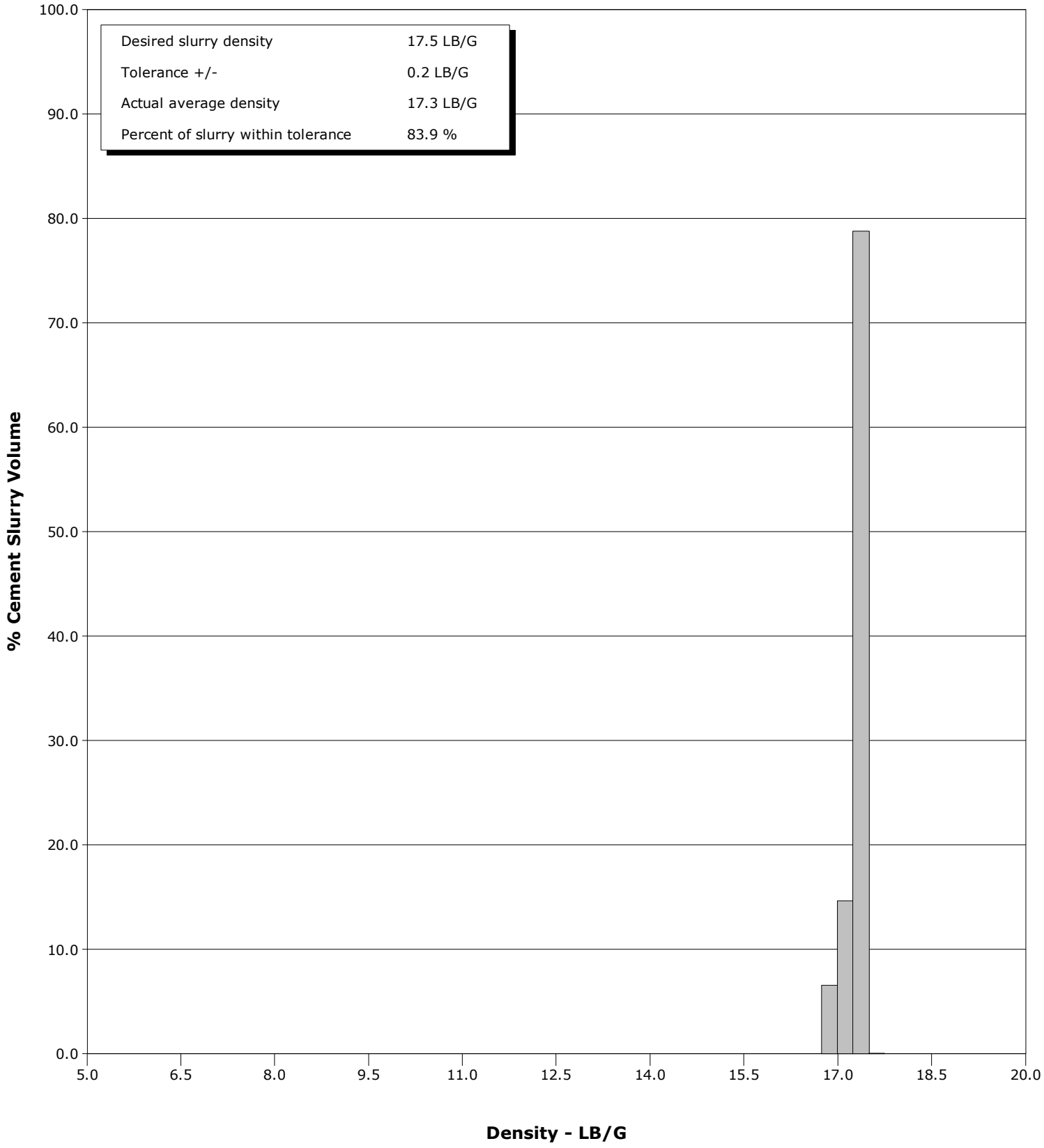
Pressure Test Lines
Reset Total, Vol = 6.04 bbl
Start Pumping Spacer
End Spacer
Reset Total, Vol = 29.71 bbl
Start Cement Slurry
Start Mixing Tail Slurry
Mud scaled @ 17.5ppg
End Tail Slurry
Reset Total, Vol = 53.22 bbl
End Cement Slurry
Start Pumping Spacer
End Spacer
Reset Total, Vol = 11.12 bbl
Drop Bottom Plug
Start Displacement
End Displacement
Reset Total, Vol = 113.57 bbl
End Plug 1
Start Plug 2
Started Acquisition
Start Pumping Spacer
End Spacer
Reset Total, Vol = 29.57 bbl
Start Cement Slurry
Start Mixing Tail Slurry
End Tail Slurry
End Cement Slurry
Reset Total, Vol = 52.95 bbl
Start Pumping Spacer
Reset Total, Vol = 10.68 bbl
End Spacer
Start Displacement
Reset Total, Vol = 103 bbl
End Displacement
End Plug 2
Plug 3 Start
Reset Total, Vol = 17.87 bbl
Start Pumping Spacer
End Spacer
Reset Total, Vol = 29.60 bbl
Start Cement Slurry
Start Mixing Tail Slurry
End Tail Slurry
End Cement Slurry
Reset Total, Vol = 41.61 bbl
Start Pumping Spacer
Reset Total, Vol = 11.21 bbl
End Spacer
Start Displacement
End Displacement
Reset Total, Vol = 94 bbl

Reverse Circ
Reset Total, Vol = 106.14 bbl

Cementing Qa/Qc Density Report

Well	MIP UNIT 3H	**Client**	NORTHEAST NATURAL ENERGY LLC
Field	UNDESIGNAT	**SIR No.**	DCHA-00109
Engineer	TJ Williams	**Job Type**	Kick Plug
Country	United States	**Job Date**	09-06-2015

Cement Slurry - 09/06/2015 08:49:06 to 09/06/2015 09:00:44



Schlumberger

Cementing Service Report

Customer	Job Number
NORTHEAST NATURAL ENERGY LLC	DCHA-00109

Well	Location (legal)	Schlumberger Location	Job Start
MIP UNIT 3H 3H		Weston, WV	Sep/06/2015

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
UNDESIGNAT		deg	8.8 in	7840.0 ft	ft

County	State/Provinc	BHP	BHST	BHCT	Pore Press. Gradient
Monongalia	West Virginia	5540 psi	129 degF	114 degF	lb/gal
Well Master 0631643025	**API/UWI** 4706101707H000				

Rig Name	Drilled For	Service Via
Patterson 254	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	Kick Plug

Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection
psi	psi	4 1/2" IF DP pin

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
1800.0	9.6	40.0		
0.0	0.0	0.0		

Tubing/Drill Pipe

T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
D	7840.0	5.0	19.5		
	0.0	0.0	0.0		

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

Provide equipment and materials to set 3 plugs from 7840 ft to 6080 ft in 8.75 in OH with 10% excess.

Treat Down	Displacement	Packer Type	Packer Depth
Casing	bbl		ft

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

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

Lift Pressure	psi	Shoe Type	Squeeze Type
Pipe Rotated ☐	Pipe Reciprocated ☐	Shoe Depth ft	Tool Type
No. Centralizers	Top Plugs / Bottom Plugs	Stage Tool Type	Tool Depth ft
Cement Head Type		Stage Tool Depth ft	Tail Pipe Size in
Job Scheduled For: Sep/06/2015 06:00	Arrived on Location: Sep/06/2015 06:00	Collar Type	Tail Pipe Depth ft
	Leave Location: Sep/06/2015 19:00	Collar Depth ft	Sqz. Total Vol. bbl

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Stage Volume BBL	Displacement Volume BBL	Total Slurry Volume BBL	Message
09/06/2015	08:13:41	3	0.0	8.27	20.0	0.0	20.0	Started Acquisition
09/06/2015	08:14:26	4	0.0	8.27	20.0	0.0	20.0	
09/06/2015	08:15:11	4	0.0	8.27	20.0	0.0	20.0	
09/06/2015	08:15:56	3	0.0	8.27	20.0	0.0	20.0	
09/06/2015	08:16:41	4	0.0	8.27	20.0	0.0	20.0	
09/06/2015	08:17:26	4	0.0	8.27	20.0	0.0	20.0	
09/06/2015	08:18:11	3	0.0	8.26	20.0	0.0	20.0	
09/06/2015	08:18:56	4	0.0	8.27	20.0	0.0	20.0	
09/06/2015	08:19:41	29	0.3	8.29	0.3	0.0	0.3	
09/06/2015	08:20:26	355	4.3	8.26	2.8	0.0	2.8	
09/06/2015	08:21:11	4	0.6	8.55	5.2	0.0	5.2	
09/06/2015	08:21:56	-0	0.6	8.50	5.6	0.0	5.6	
09/06/2015	08:22:41	1261	0.0	8.27	5.8	0.0	5.8	
09/06/2015	08:23:26	2238	0.0	8.27	5.8	0.0	5.8	
09/06/2015	08:24:11	2213	0.0	8.27	5.8	0.0	5.8	
09/06/2015	08:24:56	2200	0.0	8.27	5.8	0.0	5.8	
09/06/2015	08:25:41	2160	0.0	8.27	5.8	0.0	5.8	Pressure Test Lines
09/06/2015	08:25:45	2150	0.0	8.27	5.8	0.0	5.8	Reset Total, Vol = 6.04 bbl
09/06/2015	08:26:26	9	0.0	8.27	5.8	0.0	5.8	
09/06/2015	08:27:04	8	0.0	8.27	0.0	0.0	5.8	Start Pumping Spacer
09/06/2015	08:27:11	9	0.0	8.27	0.0	0.0	5.8	

Well	Field	Job Start	Customer	Job Number
MIP UNIT 3H 3H	UNDESIGNAT	Sep/06/2015	NORTHEAST NATURAL ENERGY LLC	DCHA-00109

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Stage Volume BBL	Displacement Volume BBL	Total Slurry Volume BBL	Message
09/06/2015	08:28:41	9	0.0	8.28	0.0	0.0	5.8	
09/06/2015	08:29:26	9	0.0	8.28	0.0	0.0	5.8	
09/06/2015	08:30:11	10	0.0	8.28	0.0	0.0	5.8	
09/06/2015	08:30:56	10	0.0	8.28	0.0	0.0	5.8	
09/06/2015	08:31:41	11	0.0	8.28	0.0	0.0	5.8	
09/06/2015	08:32:26	11	0.0	8.29	0.0	0.0	5.8	
09/06/2015	08:33:11	11	0.0	8.29	0.0	0.0	5.8	
09/06/2015	08:33:56	12	0.0	8.30	0.0	0.0	5.8	
09/06/2015	08:34:41	12	0.0	8.31	0.0	0.0	5.8	
09/06/2015	08:35:26	414	4.7	13.54	1.2	0.0	7.0	
09/06/2015	08:36:11	352	4.7	13.58	4.7	0.0	10.5	
09/06/2015	08:36:56	358	4.7	13.63	8.2	0.0	14.0	
09/06/2015	08:37:41	361	4.7	13.70	11.7	0.0	17.5	
09/06/2015	08:38:26	351	4.7	13.78	15.2	0.0	21.1	
09/06/2015	08:39:11	342	4.7	13.81	18.7	0.0	24.5	
09/06/2015	08:39:56	319	4.7	13.82	22.3	0.0	28.1	
09/06/2015	08:40:41	301	4.7	14.08	25.8	0.0	31.6	
09/06/2015	08:41:26	72	4.4	14.10	29.3	0.0	35.1	
09/06/2015	08:41:59	-43	0.0	14.33	29.7	0.0	35.5	End Spacer
09/06/2015	08:42:00	-43	0.0	14.33	29.7	0.0	35.5	Reset Total, Vol = 29.71 bbl
09/06/2015	08:42:11	-43	0.0	14.33	29.7	0.0	35.5	
09/06/2015	08:42:56	-43	0.0	14.32	29.7	0.0	35.5	
09/06/2015	08:43:41	-42	0.0	14.31	0.0	0.0	35.5	
09/06/2015	08:44:26	-43	0.0	14.30	0.0	0.0	35.5	
09/06/2015	08:45:11	-42	0.0	14.30	0.0	0.0	35.5	
09/06/2015	08:45:56	-42	0.0	14.28	0.0	0.0	35.5	
09/06/2015	08:46:41	-41	0.0	14.28	0.0	0.0	35.5	
09/06/2015	08:47:26	-42	0.0	14.27	0.0	0.0	35.5	
09/06/2015	08:48:11	-41	0.0	14.26	0.0	0.0	35.5	
09/06/2015	08:48:56	-23	0.0	14.12	0.0	0.0	35.5	
09/06/2015	08:49:06	613	4.3	16.93	0.3	0.0	35.8	Start Cement Slurry
09/06/2015	08:49:07	752	4.5	16.95	0.4	0.0	35.9	Start Mixing Tail Slurry
09/06/2015	08:49:41	435	4.7	16.96	3.0	0.0	38.5	
09/06/2015	08:50:26	437	4.7	17.14	6.5	0.0	42.0	
09/06/2015	08:51:11	432	4.7	17.24	10.0	0.0	45.5	
09/06/2015	08:51:56	399	4.7	17.29	13.5	0.0	49.0	
09/06/2015	08:52:41	359	4.6	17.32	17.0	0.0	52.5	
09/06/2015	08:53:26	319	4.7	17.31	20.5	0.0	56.0	
09/06/2015	08:54:11	292	4.7	17.29	24.0	0.0	59.5	
09/06/2015	08:54:56	284	4.7	17.34	27.5	0.0	63.1	
09/06/2015	08:55:41	272	4.7	17.35	31.0	0.0	66.6	
09/06/2015	08:56:19	278	4.7	17.35	34.0	0.0	69.5	Mud scaled @ 17.5ppg
09/06/2015	08:56:26	272	4.7	17.35	34.6	0.0	70.1	
09/06/2015	08:57:11	271	4.7	17.34	38.1	0.0	73.6	
09/06/2015	08:57:56	281	4.7	17.35	41.6	0.0	77.1	
09/06/2015	08:58:41	269	4.7	17.34	45.1	0.0	80.6	
09/06/2015	08:59:26	249	4.7	17.35	48.6	0.0	84.1	
09/06/2015	09:00:11	143	3.5	17.38	51.3	0.0	86.9	
09/06/2015	09:00:41	4	2.7	17.38	53.1	0.0	88.6	End Tail Slurry
09/06/2015	09:00:43	-28	1.9	17.39	53.2	0.0	88.7	Reset Total, Vol = 53.22 bbl
09/06/2015	09:00:44	-28	1.2	17.64	53.2	0.0	88.7	End Cement Slurry
09/06/2015	09:00:46	-29	0.3	18.31	53.3	0.0	88.8	Start Pumping Spacer
09/06/2015	09:00:56	-28	0.0	18.01	53.3	0.0	88.8	
09/06/2015	09:01:41	-30	0.0	17.71	53.3	0.0	88.8	

Well	Field	Job Start	Customer	Job Number
MIP UNIT 3H 3H	UNDESIGNAT	Sep/06/2015	NORTHEAST NATURAL ENERGY LLC	DCHA-00109

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Stage Volume BBL	Displacement Volume BBL	Total Slurry Volume BBL	Message
09/06/2015	09:03:11	-32	0.0	17.66	53.3	0.0	88.8	
09/06/2015	09:03:56	-32	0.0	17.67	0.0	0.0	88.8	
09/06/2015	09:04:41	268	4.1	14.77	0.2	0.0	89.0	
09/06/2015	09:05:26	112	4.8	14.60	3.8	0.0	92.6	
09/06/2015	09:06:11	24	3.7	14.37	7.3	0.0	96.1	
09/06/2015	09:06:56	-12	4.3	14.36	10.7	0.0	99.5	
09/06/2015	09:07:41	-41	0.0	14.50	11.1	0.0	99.9	
09/06/2015	09:08:26	-32	0.0	14.42	0.0	0.0	99.9	
09/06/2015	09:09:11	-33	0.0	14.42	0.0	0.0	99.9	
09/06/2015	09:09:56	-32	0.0	14.41	0.0	0.0	99.9	
09/06/2015	09:10:41	-32	0.0	14.41	0.0	0.0	99.9	
09/06/2015	09:11:26	-32	0.0	14.41	0.0	0.0	99.9	
09/06/2015	09:12:11	-33	0.0	14.40	0.0	0.0	99.9	
09/06/2015	09:12:56	-32	0.0	14.40	0.0	0.0	99.9	
09/06/2015	09:13:41	-32	0.0	14.40	0.0	0.0	99.9	
09/06/2015	09:13:59	-32	0.0	14.40	0.0	0.0	99.9	End Spacer
09/06/2015	09:14:01	-32	0.0	14.40	0.0	0.0	99.9	Reset Total, Vol = 11.12 bbl
09/06/2015	09:14:12	-31	0.0	14.40	0.0	0.0	99.9	Drop Bottom Plug
09/06/2015	09:14:15	-32	0.0	14.40	0.0	0.0	99.9	Start Displacement
09/06/2015	09:14:26	-32	0.0	14.40	0.0	0.0	99.9	
09/06/2015	09:15:11	76	4.8	12.36	2.3	2.3	102.2	
09/06/2015	09:15:56	82	4.8	12.29	5.9	5.9	105.8	
09/06/2015	09:16:41	47	4.0	11.74	8.9	8.9	108.7	
09/06/2015	09:17:26	52	3.9	12.51	11.9	11.9	111.7	
09/06/2015	09:18:11	88	4.8	12.45	14.9	14.9	114.7	
09/06/2015	09:18:56	71	4.8	11.73	18.4	18.4	118.3	
09/06/2015	09:19:41	91	4.8	12.58	22.0	22.0	121.9	
09/06/2015	09:20:26	87	4.8	12.56	25.6	25.6	125.5	
09/06/2015	09:21:11	81	4.7	12.35	29.2	29.2	129.0	
09/06/2015	09:21:56	90	4.8	12.58	32.7	32.7	132.6	
09/06/2015	09:22:41	84	4.8	12.54	36.3	36.3	136.2	
09/06/2015	09:23:26	78	4.8	12.18	39.9	39.9	139.8	
09/06/2015	09:24:11	90	4.8	12.62	43.5	43.5	143.4	
09/06/2015	09:24:56	89	4.7	12.62	47.1	47.1	146.9	
09/06/2015	09:25:41	42	3.7	12.60	50.2	50.2	150.0	
09/06/2015	09:26:26	44	3.7	12.62	52.9	52.9	152.8	
09/06/2015	09:27:11	43	3.7	12.61	55.7	55.7	155.6	
09/06/2015	09:27:56	42	3.8	12.59	58.5	58.5	158.4	
09/06/2015	09:28:41	43	3.8	12.52	61.3	61.3	161.2	
09/06/2015	09:29:26	44	3.8	12.64	64.2	64.2	164.0	
09/06/2015	09:30:11	43	3.7	12.64	67.0	67.0	166.9	
09/06/2015	09:30:56	45	3.8	12.64	69.8	69.8	169.7	
09/06/2015	09:31:41	44	3.8	12.64	72.7	72.7	172.5	
09/06/2015	09:32:26	43	3.8	12.63	75.5	75.5	175.4	
09/06/2015	09:33:11	43	3.8	12.62	78.3	78.3	178.2	
09/06/2015	09:33:56	45	3.8	12.63	81.2	81.2	181.0	
09/06/2015	09:34:41	45	3.8	12.65	84.0	84.0	183.9	
09/06/2015	09:35:26	45	3.7	12.64	86.8	86.8	186.7	
09/06/2015	09:36:11	47	3.1	12.64	89.6	89.6	189.5	
09/06/2015	09:36:56	50	2.8	12.65	91.9	91.9	191.7	
09/06/2015	09:37:41	51	2.5	12.64	93.8	93.8	193.7	
09/06/2015	09:38:26	63	2.3	12.64	95.6	95.6	195.5	
09/06/2015	09:39:11	93	2.3	12.64	97.3	97.3	197.2	
09/06/2015	09:39:56	113	2.4	12.64	99.1	99.1	199.0	

Well	Field	Job Start	Customer	Job Number
MIP UNIT 3H 3H	UNDESIGNAT	Sep/06/2015	NORTHEAST NATURAL ENERGY LLC	DCHA-00109

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Stage Volume BBL	Displacement Volume BBL	Total Slurry Volume BBL	Message
09/06/2015	09:41:26	155	2.3	12.65	102.6	102.6	202.5	
09/06/2015	09:42:11	182	2.3	12.65	104.4	104.4	204.2	
09/06/2015	09:42:56	206	2.3	12.65	106.1	106.1	206.0	
09/06/2015	09:43:41	237	2.3	12.64	107.9	107.9	207.8	
09/06/2015	09:44:26	270	2.3	12.64	109.6	109.6	209.5	
09/06/2015	09:45:11	291	2.3	12.64	111.4	111.4	211.2	
09/06/2015	09:45:56	301	2.3	12.65	113.1	113.1	213.0	
09/06/2015	09:46:01	277	2.3	12.65	113.3	113.3	213.2	End Displacement
09/06/2015	09:46:15	-27	0.0	12.66	113.6	113.6	213.4	Reset Total, Vol = 113.57 bbl
09/06/2015	09:46:22	-26	0.0	12.66	113.6	0.0	213.4	End Plug 1
09/06/2015	09:46:41	-23	0.0	12.66	113.6	0.0	213.4	
09/06/2015	09:47:26	-40	0.0	12.66	113.6	0.0	213.4	
09/06/2015	09:48:11	-38	0.0	12.66	113.6	0.0	213.4	
09/06/2015	09:48:56	-45	0.0	12.66	113.6	0.0	213.4	
09/06/2015	09:49:41	-46	0.0	12.66	113.6	0.0	213.4	
09/06/2015	09:50:26	-45	0.0	12.66	113.6	0.0	213.4	
09/06/2015	09:51:11	65	4.3	9.18	115.0	1.4	214.9	
09/06/2015	09:51:56	60	4.3	9.22	118.2	4.7	218.1	
09/06/2015	09:52:41	60	4.3	9.33	121.4	7.9	221.3	
09/06/2015	09:53:26	58	4.3	9.40	124.6	11.1	224.5	
09/06/2015	09:54:11	64	4.3	9.23	127.8	14.3	227.7	
09/06/2015	09:54:56	58	4.2	8.92	131.1	17.5	231.0	
09/06/2015	09:55:41	58	4.5	8.95	2.2	20.8	234.2	
09/06/2015	09:56:26	25	4.6	7.02	4.5	23.0	236.5	
09/06/2015	09:57:11	-50	0.2	4.75	7.4	26.0	239.4	
09/06/2015	09:57:56	-49	2.3	3.39	11.0	29.6	243.0	
09/06/2015	09:58:41	-66	1.2	4.20	11.4	30.0	243.5	
09/06/2015	09:59:26	-67	0.0	1.64	12.1	30.7	244.1	
09/06/2015	10:00:11	-66	0.0	3.19	14.5	33.1	246.5	
09/06/2015	10:00:56	-49	2.7	3.77	16.7	35.3	248.7	
09/06/2015	10:01:41	-61	0.0	2.22	17.1	35.7	249.2	
09/06/2015	10:02:26	-64	0.0	0.07	17.3	35.9	249.3	
09/06/2015	10:03:11	-51	0.0	0.06	17.3	35.9	249.3	
09/06/2015	10:03:56	30	4.2	8.04	19.8	38.5	251.9	
09/06/2015	10:04:41	-59	0.0	8.29	22.0	40.6	254.0	
09/06/2015	10:05:26	33	4.3	7.94	23.7	42.3	255.7	
09/06/2015	10:06:11	-55	0.0	8.23	24.5	43.1	256.6	
09/06/2015	10:06:56	-68	0.0	8.20	25.1	43.7	257.1	
09/06/2015	10:07:41	101	5.5	8.26	27.6	46.2	259.7	
09/06/2015	10:08:26	15	4.4	10.76	29.8	48.4	261.9	
09/06/2015	10:09:11	262	5.7	12.65	34.1	52.7	266.1	
09/06/2015	10:09:56	221	5.8	12.63	38.4	57.0	270.4	
09/06/2015	10:10:41	196	5.8	11.79	42.7	61.3	274.7	
09/06/2015	10:11:26	-32	0.5	10.24	45.0	63.6	277.0	
09/06/2015	10:12:11	-15	2.5	8.75	45.8	64.4	277.8	
09/06/2015	10:12:56	-41	2.1	7.41	47.7	66.3	279.8	
09/06/2015	10:13:41	-3	0.6	8.14	48.3	66.9	280.3	
09/06/2015	10:14:26	16	5.2	6.48	49.8	68.4	281.8	
09/06/2015	10:15:11	105	5.7	8.15	53.8	72.4	285.8	
09/06/2015	10:15:56	-47	0.0	8.26	0.1	73.2	286.6	
09/06/2015	10:59:26	-46	0.0	8.26	0.1	0.0	286.6	
09/06/2015	11:11:12	7	0.0	8.26	0.0	0.0	0.0	Started Acquisition
09/06/2015	11:11:16	6	0.0	8.25	0.0	0.0	0.0	Start Pumping Spacer
09/06/2015	11:11:26	7	0.0	8.26	0.0	0.0	0.0	

Well	Field	Job Start	Customer	Job Number
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Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Stage Volume BBL	Displacement Volume BBL	Total Slurry Volume BBL	Message
09/06/2015	11:12:56	7	0.0	8.26	0.0	0.0	0.0	
09/06/2015	11:13:41	7	0.0	8.25	0.0	0.0	0.0	
09/06/2015	11:14:26	7	0.0	8.25	0.0	0.0	0.0	
09/06/2015	11:15:11	8	0.0	8.25	0.0	0.0	0.0	
09/06/2015	11:15:56	8	0.0	8.25	0.0	0.0	0.0	
09/06/2015	11:16:41	489	4.7	13.52	2.0	0.0	2.0	
09/06/2015	11:17:26	463	4.7	13.62	5.5	0.0	5.5	
09/06/2015	11:18:11	448	4.7	13.70	9.0	0.0	9.0	
09/06/2015	11:18:56	442	4.7	13.73	12.5	0.0	12.5	
09/06/2015	11:19:41	409	4.7	13.82	16.0	0.0	16.0	
09/06/2015	11:20:26	389	4.7	13.81	19.5	0.0	19.5	
09/06/2015	11:21:11	377	4.7	13.81	23.1	0.0	23.1	
09/06/2015	11:21:56	355	4.7	14.19	26.6	0.0	26.6	
09/06/2015	11:22:41	5	0.0	14.76	29.6	0.0	29.6	
09/06/2015	11:22:44	5	0.0	14.76	0.0	0.0	29.6	End Spacer
09/06/2015	11:22:45	5	0.0	14.76	0.0	0.0	29.6	Reset Total, Vol = 29.57 bbl
09/06/2015	11:23:26	7	0.0	14.79	0.0	0.0	29.6	
09/06/2015	11:24:11	7	0.0	14.81	0.0	0.0	29.6	
09/06/2015	11:24:56	7	0.0	14.82	0.0	0.0	29.6	
09/06/2015	11:25:41	7	0.0	14.81	0.0	0.0	29.6	
09/06/2015	11:26:26	8	0.0	14.80	0.0	0.0	29.6	
09/06/2015	11:27:11	8	0.0	14.79	0.0	0.0	29.6	
09/06/2015	11:27:56	7	0.0	14.78	0.0	0.0	29.6	
09/06/2015	11:28:41	7	0.0	14.77	0.0	0.0	29.6	
09/06/2015	11:29:26	7	0.0	14.77	0.0	0.0	29.6	
09/06/2015	11:30:11	553	4.7	16.63	1.0	0.0	30.6	
09/06/2015	11:30:56	457	4.7	16.86	4.5	0.0	34.1	
09/06/2015	11:31:41	414	4.7	17.00	8.0	0.0	37.6	
09/06/2015	11:32:26	367	4.7	17.11	11.5	0.0	41.1	
09/06/2015	11:33:11	338	4.7	17.17	15.0	0.0	44.6	
09/06/2015	11:33:56	182	3.4	17.19	18.3	0.0	47.9	
09/06/2015	11:34:41	110	2.6	17.17	20.8	0.0	50.4	
09/06/2015	11:35:26	106	2.6	17.10	22.7	0.0	52.3	
09/06/2015	11:36:11	9	0.0	17.15	23.2	0.0	52.8	
09/06/2015	11:36:56	9	0.0	17.14	23.2	0.0	52.8	
09/06/2015	11:37:41	9	0.0	17.14	23.2	0.0	52.8	
09/06/2015	11:38:26	9	0.0	17.14	23.2	0.0	52.8	
09/06/2015	11:39:11	9	0.0	17.14	23.2	0.0	52.8	
09/06/2015	11:39:56	9	0.0	17.15	23.2	0.0	52.8	
09/06/2015	11:40:41	9	0.0	17.15	23.2	0.0	52.8	
09/06/2015	11:41:26	9	0.0	17.15	23.2	0.0	52.8	
09/06/2015	11:42:11	9	0.0	17.16	23.2	0.0	52.8	
09/06/2015	11:42:47	9	0.0	17.16	23.2	0.0	52.8	Start Cement Slurry
09/06/2015	11:42:48	9	0.0	17.16	23.2	0.0	52.8	Start Mixing Tail Slurry
09/06/2015	11:42:56	9	0.0	17.16	23.2	0.0	52.8	
09/06/2015	11:43:41	9	0.0	17.16	23.2	0.0	52.8	
09/06/2015	11:44:26	9	0.0	17.16	23.2	0.0	52.8	
09/06/2015	11:45:11	272	4.7	17.20	25.3	0.0	54.9	
09/06/2015	11:45:56	278	4.7	17.26	28.9	0.0	58.4	
09/06/2015	11:46:41	308	4.7	17.34	32.4	0.0	61.9	
09/06/2015	11:47:26	304	4.7	17.31	35.9	0.0	65.5	
09/06/2015	11:48:11	305	4.7	17.32	39.4	0.0	69.0	
09/06/2015	11:48:56	311	4.7	17.32	42.9	0.0	72.5	
09/06/2015	11:49:41	298	4.7	17.32	46.4	0.0	76.0	

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Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Stage Volume BBL	Displacement Volume BBL	Total Slurry Volume BBL	Message
09/06/2015	11:51:04	12	2.3	17.51	52.9	0.0	82.4	End Tail Slurry
09/06/2015	11:51:05	12	1.4	17.60	52.9	0.0	82.5	Reset Total, Vol = 52.95 bbl
09/06/2015	11:51:07	11	0.4	17.74	0.0	0.0	82.5	Start Pumping Spacer
09/06/2015	11:51:11	11	0.0	17.78	0.0	0.0	82.6	
09/06/2015	11:51:56	10	0.0	17.64	0.0	0.0	82.6	
09/06/2015	11:52:41	10	0.0	17.67	0.0	0.0	82.6	
09/06/2015	11:53:26	10	0.0	17.69	0.0	0.0	82.6	
09/06/2015	11:54:11	11	0.0	17.71	0.0	0.0	82.6	
09/06/2015	11:54:56	104	0.0	17.73	0.0	0.0	82.6	
09/06/2015	11:55:41	117	4.1	14.50	3.2	0.0	85.7	
09/06/2015	11:56:26	108	3.9	14.27	6.2	0.0	88.7	
09/06/2015	11:57:11	116	4.4	14.30	9.2	0.0	91.7	
09/06/2015	11:57:56	5	0.0	14.66	10.7	0.0	93.2	
09/06/2015	11:58:41	17	0.0	14.68	10.7	0.0	93.2	
09/06/2015	11:59:26	16	0.0	14.70	10.7	0.0	93.2	
09/06/2015	11:59:36	17	0.0	14.70	10.7	0.0	93.2	Reset Total, Vol = 10.68 bbl
09/06/2015	11:59:38	16	0.0	14.70	10.7	0.0	93.2	End Spacer
09/06/2015	11:59:45	17	0.0	14.70	10.7	0.0	93.2	Start Displacement
09/06/2015	12:00:11	16	0.0	14.70	10.7	0.0	93.2	
09/06/2015	12:00:56	16	0.0	14.69	0.0	0.0	93.2	
09/06/2015	12:01:41	16	0.0	14.68	0.0	0.0	93.2	
09/06/2015	12:02:26	16	0.0	14.67	0.0	0.0	93.2	
09/06/2015	12:03:11	16	0.0	14.67	0.0	0.0	93.2	
09/06/2015	12:03:56	15	0.0	14.66	0.0	0.0	93.2	
09/06/2015	12:04:41	16	0.0	14.65	0.0	0.0	93.2	
09/06/2015	12:05:26	16	0.0	14.64	0.0	0.0	93.2	
09/06/2015	12:06:11	15	0.0	14.63	0.0	0.0	93.2	
09/06/2015	12:06:56	15	0.0	14.62	0.0	0.0	93.2	
09/06/2015	12:07:41	15	0.0	14.61	0.0	0.0	93.2	
09/06/2015	12:08:26	32	1.4	13.00	0.1	0.1	93.3	
09/06/2015	12:09:11	133	4.8	12.48	3.0	3.0	96.2	
09/06/2015	12:09:56	126	4.8	12.29	6.1	6.1	99.3	
09/06/2015	12:10:41	106	4.9	12.08	9.7	9.7	102.9	
09/06/2015	12:11:26	136	4.8	12.59	13.3	13.3	106.5	
09/06/2015	12:12:11	130	4.6	12.59	16.9	16.9	110.1	
09/06/2015	12:12:56	127	4.6	12.56	20.3	20.3	113.5	
09/06/2015	12:13:41	116	4.4	12.56	23.8	23.8	117.0	
09/06/2015	12:14:26	108	4.4	12.47	27.1	27.1	120.3	
09/06/2015	12:15:11	95	4.2	11.83	30.2	30.2	123.4	
09/06/2015	12:15:56	107	4.1	12.59	33.4	33.4	126.5	
09/06/2015	12:16:41	106	4.1	12.60	36.5	36.5	129.6	
09/06/2015	12:17:26	108	4.1	12.59	39.5	39.5	132.7	
09/06/2015	12:18:11	107	4.1	12.58	42.6	42.6	135.8	
09/06/2015	12:18:56	103	4.1	12.58	45.7	45.7	138.9	
09/06/2015	12:19:41	106	4.1	12.55	48.8	48.8	142.0	
09/06/2015	12:20:26	110	4.1	12.59	51.9	51.9	145.1	
09/06/2015	12:21:11	108	4.1	12.60	55.0	55.0	148.2	
09/06/2015	12:21:56	110	4.1	12.60	58.1	58.1	151.3	
09/06/2015	12:22:41	106	4.1	12.60	61.2	61.2	154.4	
09/06/2015	12:23:26	107	4.1	12.59	64.3	64.3	157.5	
09/06/2015	12:24:11	106	4.1	12.59	67.4	67.4	160.6	
09/06/2015	12:24:56	107	4.1	12.58	70.5	70.5	163.7	
09/06/2015	12:25:41	107	4.1	12.60	73.6	73.6	166.8	
09/06/2015	12:26:26	110	4.1	12.60	76.7	76.7	169.9	

Well	Field	Job Start	Customer	Job Number
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Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Stage Volume BBL	Displacement Volume BBL	Total Slurry Volume BBL	Message
09/06/2015	12:27:56	172	4.0	12.60	82.9	82.9	176.1	
09/06/2015	12:28:41	162	3.4	12.60	85.6	85.6	178.8	
09/06/2015	12:29:26	208	3.4	12.59	88.2	88.2	181.4	
09/06/2015	12:30:11	251	3.4	12.59	90.7	90.7	183.9	
09/06/2015	12:30:56	288	3.4	12.60	93.3	93.3	186.5	
09/06/2015	12:31:41	324	3.4	12.60	95.9	95.9	189.1	
09/06/2015	12:32:26	365	3.4	12.60	98.4	98.4	191.6	
09/06/2015	12:33:11	407	3.4	12.60	101.0	101.0	194.2	
09/06/2015	12:33:56	20	0.0	12.75	101.8	101.8	195.0	
09/06/2015	12:34:19	5	0.0	12.76	101.8	101.8	195.0	Reset Total, Vol = 103 bbl
09/06/2015	12:34:22	5	0.0	12.76	101.8	101.8	195.0	End Displacement
09/06/2015	12:34:41	19	0.0	12.76	101.8	101.8	195.0	
09/06/2015	12:34:54	10	0.0	12.76	101.8	101.8	195.0	End Plug 2
09/06/2015	12:35:26	7	0.0	12.77	101.8	101.8	195.0	
09/06/2015	12:36:11	7	0.0	12.77	101.8	101.8	195.0	
09/06/2015	12:36:56	2	0.0	12.74	101.8	101.8	195.0	
09/06/2015	12:37:41	1	0.0	12.64	101.8	101.8	195.0	
09/06/2015	12:38:26	88	3.8	11.81	0.6	101.8	195.6	
09/06/2015	12:39:11	24	1.6	12.15	3.0	101.8	198.0	
09/06/2015	12:39:56	17	1.2	10.26	3.8	101.8	198.8	
09/06/2015	12:40:41	43	2.5	9.07	5.2	101.8	200.2	
09/06/2015	12:41:26	-4	3.7	5.66	6.6	101.8	201.7	
09/06/2015	12:42:11	11	1.8	7.85	8.7	101.8	203.7	
09/06/2015	12:42:56	62	3.4	9.31	9.9	101.8	204.9	
09/06/2015	12:43:41	94	4.3	9.35	13.1	101.8	208.1	
09/06/2015	12:44:26	90	4.2	9.45	16.3	101.8	211.3	
09/06/2015	13:41:39	-0	0.0	8.26	58.2	101.8	253.2	Plug 3 Start
09/06/2015	13:42:11	-0	0.0	8.26	58.2	101.8	253.2	
09/06/2015	13:42:43	-0	0.0	8.26	58.2	101.8	253.2	Reset Total, Vol = 17.87 bbl
09/06/2015	13:42:56	1	0.0	8.26	58.2	0.0	253.2	
09/06/2015	13:43:27	0	0.0	8.26	58.2	0.0	253.2	Start Pumping Spacer
09/06/2015	13:43:41	-0	0.0	8.26	58.2	0.0	253.2	
09/06/2015	13:44:26	-0	0.0	8.26	58.2	0.0	253.2	
09/06/2015	13:45:11	-0	0.0	8.26	0.0	0.0	0.0	
09/06/2015	13:45:56	0	0.0	8.26	0.0	0.0	0.0	
09/06/2015	13:46:41	1	0.0	8.26	0.0	0.0	0.0	
09/06/2015	13:47:26	1	0.0	8.26	0.0	0.0	0.0	
09/06/2015	13:48:11	1	0.0	8.26	0.0	0.0	0.0	
09/06/2015	13:48:56	86	0.0	8.26	0.0	0.0	0.0	
09/06/2015	13:49:41	90	0.0	8.26	0.0	0.0	0.0	
09/06/2015	13:50:26	92	0.0	8.26	0.0	0.0	0.0	
09/06/2015	13:51:11	92	0.0	8.26	0.0	0.0	0.0	
09/06/2015	13:51:56	92	0.0	8.26	0.0	0.0	0.0	
09/06/2015	13:52:41	92	0.0	8.26	0.0	0.0	0.0	
09/06/2015	13:53:26	92	0.0	8.26	0.0	0.0	0.0	
09/06/2015	13:54:11	92	0.0	8.26	0.0	0.0	0.0	
09/06/2015	13:54:56	91	0.0	8.26	0.0	0.0	0.0	
09/06/2015	13:55:41	90	0.0	8.26	0.0	0.0	0.0	
09/06/2015	13:56:26	90	0.0	8.26	0.0	0.0	0.0	
09/06/2015	13:57:11	431	4.7	13.81	1.4	0.0	1.4	
09/06/2015	13:57:56	421	4.7	13.86	4.9	0.0	4.9	
09/06/2015	13:58:41	410	4.7	13.86	8.5	0.0	8.5	
09/06/2015	13:59:26	382	4.7	13.89	12.0	0.0	12.0	
09/06/2015	14:00:11	358	4.7	13.94	15.5	0.0	15.5	

Well	Field	Job Start	Customer	Job Number
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Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Stage Volume BBL	Displacement Volume BBL	Total Slurry Volume BBL	Message
09/06/2015	14:01:41	308	4.7	13.99	22.5	0.0	22.5	
09/06/2015	14:02:26	290	4.7	14.25	26.1	0.0	26.1	
09/06/2015	14:03:11	-1	1.6	14.63	29.5	0.0	29.5	End Spacer
09/06/2015	14:03:13	-1	0.5	15.22	29.6	0.0	29.6	Reset Total, Vol = 29.60 bbl
09/06/2015	14:03:56	2	0.0	14.83	0.0	0.0	29.6	
09/06/2015	14:04:41	3	0.0	14.86	0.0	0.0	29.6	
09/06/2015	14:05:26	3	0.0	14.90	0.0	0.0	29.6	
09/06/2015	14:06:11	4	0.0	14.93	0.0	0.0	29.6	
09/06/2015	14:06:56	4	0.0	14.94	0.0	0.0	29.6	
09/06/2015	14:07:14	4	0.0	14.95	0.0	0.0	29.6	Start Cement Slurry
09/06/2015	14:07:15	4	0.0	14.95	0.0	0.0	29.6	Start Mixing Tail Slurry
09/06/2015	14:07:41	276	4.7	16.87	0.7	0.0	30.3	
09/06/2015	14:08:26	387	4.7	17.01	4.2	0.0	33.8	
09/06/2015	14:09:11	346	4.7	17.14	7.7	0.0	37.3	
09/06/2015	14:09:56	309	4.7	17.21	11.2	0.0	40.8	
09/06/2015	14:10:41	326	4.7	17.26	14.7	0.0	44.3	
09/06/2015	14:11:26	320	4.7	17.28	18.2	0.0	47.8	
09/06/2015	14:12:11	328	4.7	17.29	21.7	0.0	51.3	
09/06/2015	14:12:56	327	4.7	17.28	25.2	0.0	54.8	
09/06/2015	14:13:41	329	4.7	17.28	28.6	0.0	58.2	
09/06/2015	14:14:26	106	2.2	17.29	31.1	0.0	60.7	
09/06/2015	14:15:11	136	2.7	17.24	32.9	0.0	62.5	
09/06/2015	14:15:56	136	2.9	17.23	35.0	0.0	64.6	
09/06/2015	14:16:41	128	2.8	17.15	37.1	0.0	66.7	
09/06/2015	14:17:26	195	3.4	17.17	39.3	0.0	68.9	
09/06/2015	14:18:06	20	1.7	17.19	41.5	0.0	71.2	End Tail Slurry
09/06/2015	14:18:07	11	1.0	17.23	41.6	0.0	71.2	Reset Total, Vol = 41.61 bbl
09/06/2015	14:18:08	10	0.6	17.28	41.6	0.0	71.2	Start Pumping Spacer
09/06/2015	14:18:11	11	0.2	17.30	41.6	0.0	71.2	
09/06/2015	14:18:56	13	0.0	17.30	41.6	0.0	71.2	
09/06/2015	14:19:41	13	0.0	17.30	0.0	0.0	71.2	
09/06/2015	14:20:26	13	0.0	17.30	0.0	0.0	71.2	
09/06/2015	14:21:11	13	0.0	17.29	0.0	0.0	71.2	
09/06/2015	14:21:56	13	0.0	17.29	0.0	0.0	71.2	
09/06/2015	14:22:41	148	4.7	14.43	1.4	0.0	72.7	
09/06/2015	14:23:26	149	4.8	14.43	5.0	0.0	76.2	
09/06/2015	14:24:11	134	4.8	14.00	8.6	0.0	79.8	
09/06/2015	14:24:56	3	0.0	14.85	11.2	0.0	82.4	
09/06/2015	14:25:41	5	0.0	14.69	11.2	0.0	82.4	
09/06/2015	14:26:26	14	0.0	14.73	0.0	0.0	82.4	
09/06/2015	14:27:06	14	0.0	14.76	0.0	0.0	82.4	Reset Total, Vol = 11.21 bbl
09/06/2015	14:27:08	14	0.0	14.77	0.0	0.0	82.4	End Spacer
09/06/2015	14:27:10	14	0.0	14.77	0.0	0.0	82.4	Start Displacement
09/06/2015	14:27:11	14	0.0	14.77	0.0	0.0	82.4	
09/06/2015	14:27:56	13	0.0	14.78	0.0	0.0	82.4	
09/06/2015	14:28:41	13	0.0	14.78	0.0	0.0	82.4	
09/06/2015	14:29:26	13	0.0	14.78	0.0	0.0	82.4	
09/06/2015	14:30:11	12	0.0	14.77	0.0	0.0	82.4	
09/06/2015	14:30:56	13	0.0	14.76	0.0	0.0	82.4	
09/06/2015	14:31:41	12	0.0	14.75	0.0	0.0	82.4	
09/06/2015	14:32:26	13	0.0	14.74	0.0	0.0	82.4	
09/06/2015	14:33:11	128	4.7	12.40	1.5	1.5	83.9	
09/06/2015	14:33:56	107	4.0	12.38	4.5	4.5	86.9	
09/06/2015	14:34:41	104	4.0	12.27	7.5	7.5	89.9	

Well	Field	Job Start	Customer	Job Number
MIP UNIT 3H 3H	UNDESIGNAT	Sep/06/2015	NORTHEAST NATURAL ENERGY LLC	DCHA-00109

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Stage Volume BBL	Displacement Volume BBL	Total Slurry Volume BBL	Message
09/06/2015	14:36:11	114	4.0	12.55	13.6	13.6	96.0	
09/06/2015	14:36:56	113	4.0	12.55	16.6	16.6	99.0	
09/06/2015	14:37:41	109	4.0	12.55	19.6	19.6	102.0	
09/06/2015	14:38:26	118	4.0	12.54	22.6	22.6	105.0	
09/06/2015	14:39:11	115	4.0	12.54	25.6	25.6	108.0	
09/06/2015	14:39:56	112	4.0	12.50	28.6	28.6	111.0	
09/06/2015	14:40:41	116	4.0	12.53	31.6	31.6	114.0	
09/06/2015	14:41:26	118	4.0	12.57	34.6	34.6	117.0	
09/06/2015	14:42:11	112	4.0	12.57	37.6	37.6	120.0	
09/06/2015	14:42:56	118	4.0	12.57	40.6	40.6	123.0	
09/06/2015	14:43:41	120	4.0	12.56	43.6	43.6	126.0	
09/06/2015	14:44:26	114	4.0	12.56	46.6	46.6	129.0	
09/06/2015	14:45:11	120	4.0	12.55	49.6	49.6	132.0	
09/06/2015	14:45:56	121	4.0	12.58	52.6	52.6	135.1	
09/06/2015	14:46:41	114	4.0	12.58	55.6	55.6	138.1	
09/06/2015	14:47:26	112	4.0	12.58	58.6	58.6	141.1	
09/06/2015	14:48:11	121	4.0	12.58	61.7	61.7	144.1	
09/06/2015	14:48:56	123	4.0	12.58	64.7	64.7	147.1	
09/06/2015	14:49:41	118	4.0	12.58	67.7	67.7	150.1	
09/06/2015	14:50:26	112	4.0	12.58	70.7	70.7	153.1	
09/06/2015	14:51:11	124	4.0	12.59	73.7	73.7	156.1	
09/06/2015	14:51:56	144	3.9	12.59	76.7	76.7	159.1	
09/06/2015	14:52:41	212	3.9	12.59	79.6	79.6	162.1	
09/06/2015	14:53:26	246	3.9	12.58	82.5	82.5	165.0	
09/06/2015	14:54:11	278	3.9	12.59	85.4	85.4	167.9	
09/06/2015	14:54:56	323	3.9	12.59	88.4	88.4	170.8	
09/06/2015	14:55:41	133	3.4	12.59	91.3	91.3	173.7	
09/06/2015	14:56:26	9	0.0	12.70	91.5	91.5	173.9	
09/06/2015	14:57:11	10	0.0	12.69	91.5	91.5	173.9	
09/06/2015	14:57:56	8	0.0	12.61	91.5	91.5	173.9	
09/06/2015	14:58:41	92	3.2	12.57	92.1	92.1	174.6	
09/06/2015	14:59:26	45	3.9	12.21	94.6	94.6	177.0	
09/06/2015	15:00:11	3	0.0	12.03	94.9	94.9	177.3	
09/06/2015	15:00:56	41	2.5	8.80	96.4	96.4	178.8	
09/06/2015	15:01:41	4	0.1	8.21	97.3	97.3	179.8	
09/06/2015	15:02:26	12	2.2	7.29	97.9	97.9	180.3	
09/06/2015	15:02:55	-6	0.2	5.01	98.6	98.6	181.0	End Displacement
09/06/2015	15:02:56	-6	0.1	5.40	98.6	98.6	181.0	Reset Total, Vol = 94 bbl
09/06/2015	15:03:11	-12	0.6	2.25	98.8	98.6	181.2	
09/06/2015	15:03:54	-15	1.6	5.29	99.1	98.6	181.6	Plug 3 end
09/06/2015	15:03:56	-18	0.9	5.46	99.2	98.6	181.6	
09/06/2015	15:04:41	34	3.1	8.82	100.9	98.6	183.3	
09/06/2015	15:05:26	34	2.7	8.75	103.1	98.6	185.5	
09/06/2015	15:06:11	30	2.4	8.65	105.0	98.6	187.4	
09/06/2015	15:06:56	21	1.9	8.48	106.7	98.6	189.1	
09/06/2015	15:07:41	8	0.5	7.83	108.0	98.6	190.4	
09/06/2015	15:53:18	-1	0.0	8.27	2.8	98.6	234.4	Start Job
09/06/2015	15:53:26	-1	0.0	8.26	2.8	98.6	234.4	
09/06/2015	15:54:11	-1	0.0	8.26	0.0	98.6	234.4	
09/06/2015	15:54:56	-1	0.0	8.26	0.0	98.6	0.0	
09/06/2015	15:55:41	-1	0.0	8.26	0.0	98.6	0.0	
09/06/2015	15:56:26	-1	0.0	8.26	0.0	98.6	0.0	
09/06/2015	15:57:11	1	0.0	8.26	0.0	98.6	0.0	
09/06/2015	15:57:56	28	1.4	12.25	1.0	98.6	1.0	

Well	Field	Job Start	Customer	Job Number
MIP UNIT 3H 3H	UNDESIGNAT	Sep/06/2015	NORTHEAST NATURAL ENERGY LLC	DCHA-00109

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Stage Volume BBL	Displacement Volume BBL	Total Slurry Volume BBL	Message
09/06/2015	15:59:26	101	0.1	12.57	3.6	98.6	3.6	
09/06/2015	16:00:11	182	0.9	12.58	4.5	98.6	4.5	
09/06/2015	16:00:56	238	1.5	12.59	5.1	98.6	5.1	
09/06/2015	16:01:41	259	1.8	12.60	6.4	98.6	6.4	
09/06/2015	16:02:26	273	2.0	12.61	7.9	98.6	7.9	
09/06/2015	16:03:11	285	2.0	12.63	9.3	98.6	9.3	
09/06/2015	16:03:56	287	2.0	12.64	10.8	98.6	10.8	
09/06/2015	16:04:41	270	2.0	12.65	12.3	98.6	12.3	
09/06/2015	16:05:26	274	2.0	12.65	13.8	98.6	13.8	
09/06/2015	16:06:11	274	2.0	12.65	15.2	98.6	15.2	
09/06/2015	16:06:56	283	2.0	12.66	16.7	98.6	16.7	
09/06/2015	16:07:41	286	2.0	12.66	18.2	98.6	18.2	
09/06/2015	16:08:26	281	2.0	12.66	19.6	98.6	19.6	
09/06/2015	16:09:11	283	2.0	12.66	21.1	98.6	21.1	
09/06/2015	16:09:56	273	2.0	12.66	22.6	98.6	22.6	
09/06/2015	16:10:41	276	2.0	12.66	24.1	98.6	24.1	
09/06/2015	16:11:26	273	2.0	12.66	25.5	98.6	25.5	
09/06/2015	16:12:11	276	2.0	12.66	27.0	98.6	27.0	
09/06/2015	16:12:56	274	2.0	12.66	28.5	98.6	28.5	
09/06/2015	16:13:41	273	2.0	12.66	30.0	98.6	30.0	
09/06/2015	16:14:26	275	2.0	12.66	31.4	98.6	31.4	
09/06/2015	16:15:11	275	2.0	12.65	32.9	98.6	32.9	
09/06/2015	16:15:56	272	2.0	12.65	34.4	98.6	34.4	
09/06/2015	16:16:41	275	2.0	12.65	35.9	98.6	35.9	
09/06/2015	16:17:26	274	2.0	12.65	37.3	98.6	37.3	
09/06/2015	16:18:11	284	2.0	12.65	38.8	98.6	38.8	
09/06/2015	16:18:56	284	2.0	12.65	40.3	98.6	40.3	
09/06/2015	16:19:41	284	2.0	12.65	41.7	98.6	41.7	
09/06/2015	16:20:26	284	2.0	12.65	43.2	98.6	43.2	
09/06/2015	16:21:11	290	2.0	12.65	44.7	98.6	44.7	
09/06/2015	16:21:56	286	2.0	12.65	46.2	98.6	46.2	
09/06/2015	16:22:41	289	2.0	12.65	47.6	98.6	47.6	
09/06/2015	16:23:26	293	2.0	12.64	49.1	98.6	49.1	
09/06/2015	16:24:11	290	2.0	12.64	50.6	98.6	50.6	
09/06/2015	16:24:56	291	2.0	12.64	52.1	98.6	52.1	
09/06/2015	16:25:41	288	2.0	12.64	53.5	98.6	53.5	
09/06/2015	16:26:26	289	2.0	12.64	55.0	98.6	55.0	
09/06/2015	16:27:11	205	1.1	12.64	55.7	98.6	55.7	
09/06/2015	16:27:56	232	0.9	12.65	56.3	98.6	56.3	
09/06/2015	16:28:41	201	1.0	12.64	57.0	98.6	57.0	
09/06/2015	16:29:26	243	1.0	12.64	57.7	98.6	57.7	
09/06/2015	16:30:11	217	1.1	12.64	58.5	98.6	58.5	
09/06/2015	16:30:56	225	1.1	12.63	59.3	98.6	59.3	
09/06/2015	16:31:41	238	1.1	12.63	60.1	98.6	60.1	
09/06/2015	16:32:26	249	1.1	12.63	60.9	98.6	60.9	
09/06/2015	16:33:11	211	1.0	12.63	61.7	98.6	61.7	
09/06/2015	16:33:56	280	1.6	12.63	62.7	98.6	62.7	
09/06/2015	16:34:41	266	1.7	12.62	64.0	98.6	64.0	
09/06/2015	16:35:26	287	1.7	12.62	65.3	98.6	65.3	
09/06/2015	16:36:11	272	1.7	12.62	66.5	98.6	66.5	
09/06/2015	16:36:56	265	1.7	12.62	67.8	98.6	67.8	
09/06/2015	16:37:41	288	1.7	12.62	69.1	98.6	69.1	
09/06/2015	16:38:26	270	1.7	12.63	70.3	98.6	70.3	
09/06/2015	16:39:11	267	1.7	12.63	71.6	98.6	71.6	

Well	Field	Job Start	Customer	Job Number
MIP UNIT 3H 3H	UNDESIGNAT	Sep/06/2015	NORTHEAST NATURAL ENERGY LLC	DCHA-00109

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Stage Volume BBL	Displacement Volume BBL	Total Slurry Volume BBL	Message
09/06/2015	16:40:41	265	1.7	12.62	74.1	98.6	74.1	
09/06/2015	16:41:26	291	1.7	12.63	75.4	98.6	75.4	
09/06/2015	16:42:11	274	1.7	12.62	76.7	98.6	76.7	
09/06/2015	16:42:56	267	1.7	12.62	77.9	98.6	77.9	
09/06/2015	16:43:41	292	1.7	12.62	79.2	98.6	79.2	
09/06/2015	16:44:26	266	1.7	12.62	80.5	98.6	80.5	
09/06/2015	16:45:11	287	1.7	12.62	81.7	98.6	81.7	
09/06/2015	16:45:56	280	1.7	12.62	83.0	98.6	83.0	
09/06/2015	16:46:41	269	1.7	12.62	84.3	98.6	84.3	
09/06/2015	16:47:26	287	1.7	12.62	85.5	98.6	85.5	
09/06/2015	16:48:11	267	1.7	12.61	86.8	98.6	86.8	
09/06/2015	16:48:56	284	1.7	12.61	88.1	98.6	88.1	
09/06/2015	16:49:41	282	1.7	12.61	89.3	98.6	89.3	
09/06/2015	16:50:26	262	1.7	12.61	90.6	98.6	90.6	
09/06/2015	16:51:11	270	1.7	12.61	91.9	98.6	91.9	
09/06/2015	16:51:56	283	1.7	12.61	93.1	98.6	93.1	
09/06/2015	16:52:41	251	1.7	12.61	94.4	98.6	94.4	
09/06/2015	16:53:26	248	0.1	12.61	95.6	98.6	95.6	
09/06/2015	16:54:11	301	0.0	12.61	95.6	98.6	95.6	
09/06/2015	16:54:56	297	0.0	12.60	95.6	98.6	95.6	
09/06/2015	16:55:41	297	0.0	12.60	95.6	98.6	95.6	
09/06/2015	16:56:26	297	0.0	12.60	95.6	98.6	95.6	
09/06/2015	16:57:11	364	0.0	12.61	95.6	98.6	95.6	
09/06/2015	16:57:56	364	0.0	12.61	95.6	98.6	95.6	
09/06/2015	16:58:41	364	0.0	12.61	95.6	98.6	95.6	
09/06/2015	16:59:26	5	0.3	12.61	96.5	98.6	96.5	
09/06/2015	17:00:11	5	0.0	12.62	96.5	98.6	96.5	
09/06/2015	17:00:39	7	0.0	12.62	96.5	98.6	96.5	Reverse Circ
09/06/2015	17:00:43	7	0.0	12.62	96.5	98.6	96.5	Reset Total, Vol = 106.14 bbl
09/06/2015	17:00:56	7	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:01:41	7	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:02:26	7	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:03:11	7	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:03:56	8	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:04:41	8	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:05:26	8	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:06:11	8	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:06:56	8	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:07:41	9	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:08:26	9	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:09:11	9	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:09:56	9	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:10:41	9	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:11:26	9	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:12:11	9	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:12:56	10	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:13:41	9	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:14:26	9	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:15:11	9	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:15:56	9	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:16:41	8	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:17:26	8	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:18:11	8	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:18:56	8	0.0	12.62	96.5	0.0	96.5	

Well	Field	Job Start	Customer	Job Number
MIP UNIT 3H 3H	UNDESIGNAT	Sep/06/2015	NORTHEAST NATURAL ENERGY LLC	DCHA-00109

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Stage Volume BBL	Displacement Volume BBL	Total Slurry Volume BBL	Message
09/06/2015	17:20:26	8	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:21:11	8	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:21:56	8	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:22:41	8	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:23:26	7	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:24:11	7	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:24:56	7	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:25:41	8	0.0	12.61	96.5	0.0	96.5	
09/06/2015	17:26:26	7	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:27:11	7	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:27:56	7	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:28:41	8	0.0	12.61	96.5	0.0	96.5	
09/06/2015	17:29:26	8	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:30:11	8	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:30:56	8	0.0	12.62	96.5	0.0	96.5	
09/06/2015	17:31:41	8	0.0	12.61	96.5	0.0	96.5	
09/06/2015	17:32:26	8	0.0	12.61	96.5	0.0	96.5	
09/06/2015	17:33:11	8	0.0	12.61	96.5	0.0	96.5	
09/06/2015	17:33:56	8	0.0	12.61	96.5	0.0	96.5	

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
1.7		0.0	2.9	0.0	0.0	0.0	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
414	8	170				bbl	lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume bbl
%	0.0 bbl	0.0 bbl	76 degF	Washed Thru Perfs ☐	To ft

Customer or Authorized Representative	Schlumberger Supervisor	Circulation Lost	Job Completed
Brad Chadwick	TJ Williams	-	-