northeast
NATURAL ENERGY

June 21, 2016

WV Department of Environmental Protection
Office of Oil and Gas Management
601 57th Street, SE
Charleston, WV 25304-2345

RE: WR-35 Forms for:
API #'s 47-061-01710, 47-061-01722, 47-061-01678,
47-061-01700, 47-061-01711
Clay District, Monongalia County, West Virginia

To Whom It May Concern:

Please find enclosed Northeast Natural Energy LLC's Well Operator's Report of Well Work Forms (WR-35) for the drilling portion of its' Campbell 1H well (API # 47-61-01710), Campbell 3H well (API #47-061-01722), Campbell 5H well (API #47-061-01678), Campbell 6H well (API #47-061-01700) and Campbell 7H well (API #47-061-01711).

Should you have any questions please feel free to contact me at 304-212-0422 or by email at hmedley@nne-llc.com.

Sincerely,

Hollie M. Medley

Hollie M. Medley
Regulatory Coordinator

RECEIVED
Office of Oil and Gas
JUN 22 2016
WV Department of
Environmental Protection

WR-35
Rev. 8/23/13

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47 - 061 - 01710 County Monongalia District Clay
Quad Blacksville, WV Pad Name Campbell Field/Pool Name
Farm name Ellen F. Campbell Well Number 1H
Operator (as registered with the OOG) Northeast Natural Energy, LLC
Address 707 Virginia Street East, Suite 1200 City Charleston State WV Zip 25301

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4394766.9 Easting 569970.9
Landing Point of Curve Northing 4394751.6 Easting 569708.3
Bottom Hole Northing 4396924.7 Easting 568262.6

Elevation (ft) 1,293.6' GL Type of Well ■New □ Existing Type of Report ■Interim □Final

Permit Type □ Deviated □ Horizontal ■ Horizontal 6A □ Vertical Depth Type □ Deep ■ Shallow

Type of Operation □ Convert □ Deepen ■ Drill □ Plug Back □ Redrilling □ Rework □ Stimulate

Well Type □ Brine Disposal □ CBM ■ Gas □ Oil □ Secondary Recovery □ Solution Mining □ Storage □ Other _____

Type of Completion □ Single □ Multiple Fluids Produced □ Brine □Gas □ NGL □ Oil □ Other _____
Drilled with □ Cable ■ Rotary

Drilling Media Surface hole ■ Air □ Mud □Fresh Water Intermediate hole ■ Air □ Mud □ Fresh Water □ Brine
Production hole □ Air ■ Mud □ Fresh Water □ Brine

Mud Type(s) and Additive(s)
Synthetic Based Mud - Horizontal Section:BIO-BASE 365, CALCIUM CHLORIDE POWDER, G-SEAL PLUS, HRP, LIME, M-I WATE (BARITE),
M-I-X II MEDIUM, MEGADRIL P SYSTEM, MEGADRIL P SYSTEM RENTAL, MEGAMUL, SAFE-CARB 250, VERSATHIN HF, VERSAWET, VG-PLUS, VINSEAL MEDIUM, WALNUT NUT PLUG MEDIUM

Date permit issued 6/17/2015 Date drilling commenced 7/20/2015 Date drilling ceased 2/16/2016
Date completion activities began N/A Date completion activities ceased N/A
Verbal plugging (Y/N) _____ Date permission granted _____ Granted by _____

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 1,190' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 2,000' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 200' ; 940' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

API 47- 061 - 01710 Farm name Ellen F. Campbell Well number 1H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	30	24	50	N	N/A	N/A	Y to surface
Surface	17.5	13 3/8	1,262	N	54.5	N/A	Y 38 bbl return
Coal							
Intermediate 1	12.25	9 5/8	2,427'	N	40	N/A	Y 20 bbl return
Intermediate 2							
Intermediate 3							
Production	8.5	5.5	17,340'	N	20	N/A	Y 10 bbl return
Tubing							
Packer type and depth set							

Comment Details

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ^{3}/sks)	Volume (ft ^{3})	Cement Top (MD)	WOC (hrs)
Conductor	4,500 psi ready mix	36.4		.75	27.27	CTS	48
Surface	Class A	1,054	15.2	1.27	1,271	CTS	8
Coal							
Intermediate 1	Class A	889	15.2	1.26	1,074	CTS	8
Intermediate 2							
Intermediate 3							
Production	50/50 Premium NE - 1.3% R-3.3% MPA 170	2,804	14.5	1.17	2,661	CTS	48
Tubing							

Drillers TD (ft) 17,363' Loggers TD (ft) 17,338'

Deepest formation penetrated Marcellus Plug back to (ft) N/A

Plug back procedure

Kick off depth (ft) 7,363'

Check all wireline logs run ☐ caliper ☐ density ☐ deviated/directional ☐ induction ☐ neutron ☐ resistivity ■ gamma ray ☐ temperature ☐ sonic

Well cored ☐ Yes ■ No Conventional Sidewall Were cuttings collected ■ Yes ☐ No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING

Surface: bow spring centralizers every 3rd joint or aprox 120'

Intermediate: bow spring centralizers every 3rd joint or aprox 120'

Production: Hard bodied spiral centralizers every other joint or aprox 80' from TD to KOP then bow spring from KOP to 9 5/8" every forth joint or aprox 140'

WAS WELL COMPLETED AS SHOT HOLE ☐ Yes ■ No DETAILS This well has not yet been completed.

WAS WELL COMPLETED OPEN HOLE? ☐ Yes ■ No DETAILS

WERE TRACERS USED ☐ Yes ■ No TYPE OF TRACER(S) USED

API 47- 061 - 01710 Farm name Ellen F. Campbell Well number 1H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
					This well has not yet been completed

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)

Please insert additional pages as applicable.

API 47- 061 - 01710 Farm name Ellen F. Campbell Well number 1H

PRODUCING FORMATION(S)	DEPTHS		
This well has not yet been completed.	8,092.07'	TVD	17,363' MD

Please insert additional pages as applicable.

GAS TEST □ Build up □ Drawdown □ Open Flow OIL TEST □ Flow □ Pump

SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas _____ mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd GAS MEASURED BY □ Estimated □ Orifice □ Pilot

LITHOLOGY/ FORMATION NAME	TOP DEPTH IN FT TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H_2S, ETC)
	0		0		Please see Attachment

Please insert additional pages as applicable.

Drilling Contractor Nabors
Address CO Rd 7 City Jane Lew State WV Zip 26378

Logging Company KLX Energy Services
Address 6072 W. Veterans Memorial Highway City Bridgeport State WV Zip 26330

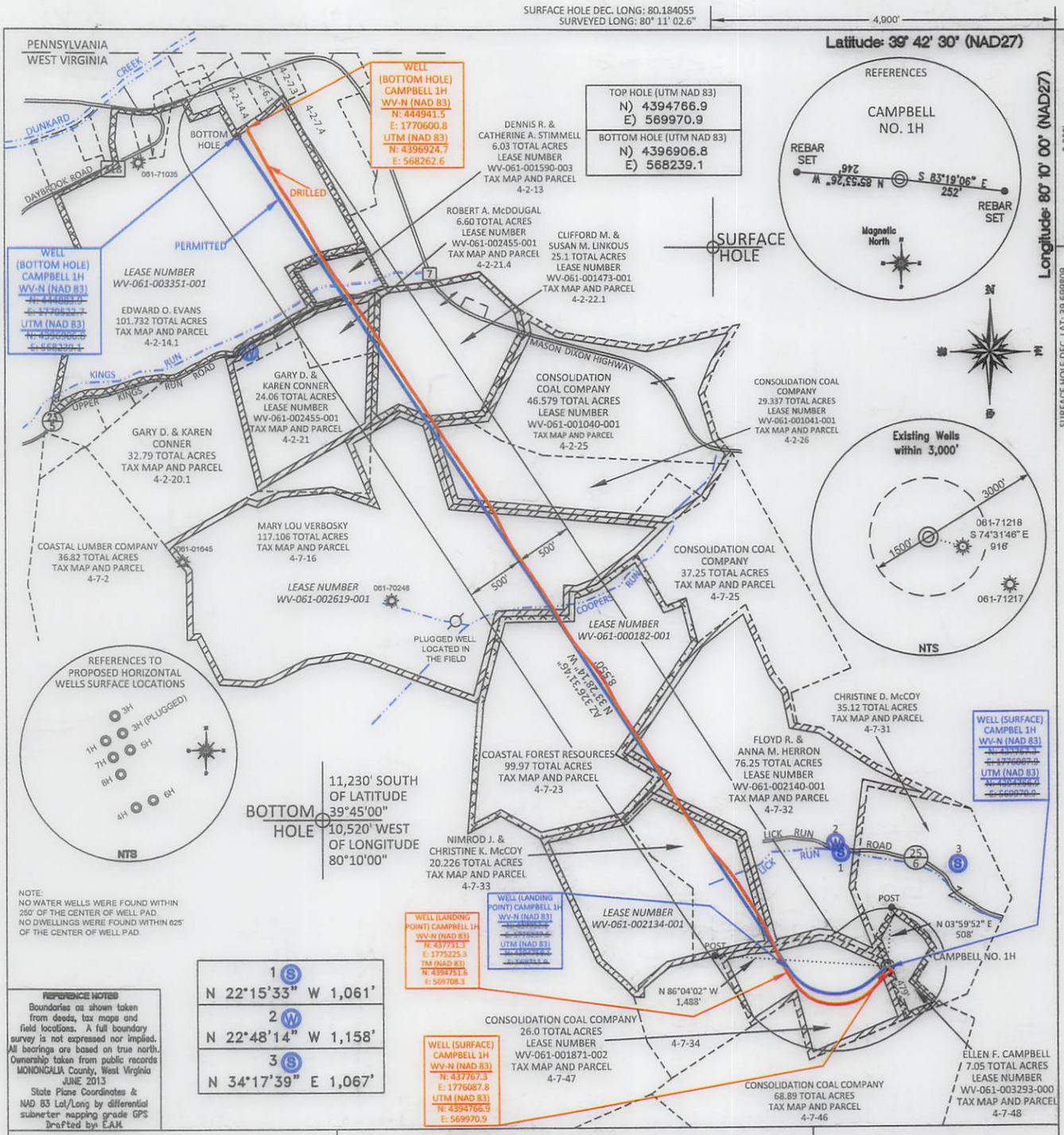
Cementing Company Schlumberger
Address 1080 US 33 City Weston State WV Zip 26452

Stimulating Company _____
Address _____ City _____ State _____ Zip _____
Please insert additional pages as applicable.

Completed by Zack Arnold Telephone 304-203-8059
Signature _____ Title General Manager - Operations Date 10 JUN 16

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

Lithology/Formation	Top Depth in FT Name TVD	Bottom Depth in FT TVD	Top Depth in FT MD	Bottom Depth in FT MD	Describe rock type and record quantity and type of fluid (freshwater, brine, oil, gas, H2S, etc)
Grey Shale/Sand	0	1150			sand/shale
Red Rock	1150	1250			red rock
Shale/Sandstone	1250	2000			sand/shale
Black/Grey Shale	2000	2080			shale
Red Rock	2080	2140			red rock
Grey Sand/shale	2140	3010			sand/shale
Red/Grey Shale	3010	3170			shale
Grey Sandstone/Shale	3170	4520			sandstone/shale
Shale/Sand	4520	7171			shale/sand
Middlesex	7443	7652	7447	7688	shale
Burkett	7652	7835	7688	7967	shale
Geneseo	7835	7882	7967	8045	shale
Tully	7882	7935	8045	8137	limestone
Hamilton	7935	8047	8137	8352	shale
Marcellus	8047	8097	8352	8478	shale
Cherry Valley	8097	8100	8478	8489	limestone
Lower Marcellus	8100		8489		shale



FILE #: NNE12

DRAWING #: 2322

SCALE: PLAT: 1" = 1200' TICK: 1" = 2000'

MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: _____

L.L.S. #2124 : Ernest J. Benchek III

ERNEST J. BENCHEK III LICENSED No. 2124 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

DATE: APRIL 21, 2016

OPERATOR'S WELL #: CAMPBELL NO. 1H AS-DRILLED

API WELL #: 47 (STATE) 61 (COUNTY) 01710 (PERMIT)

Well Type: ☐ Oil ☐ Waste Diposal ☐ Production ☐ Deep
☒ Gas ☐ Liquid Injection ☐ Storage ☒ Shallow

WATERSHED: DUNKARD CREEK ELEVATION: 1,293.6'

COUNTY/DISTRICT: MONONGALIA / CLAY QUADRANGLE: BLACKSVILLE

SURFACE OWNER: ELLEN F. CAMPBELL ACREAGE: 7.05 +/-

OIL & GAS ROYALTY OWNER: ELLEN FOLEY CAMPBELL, ET AL ACREAGE: 535.018 +/-

LEASE NUMBERS: _____

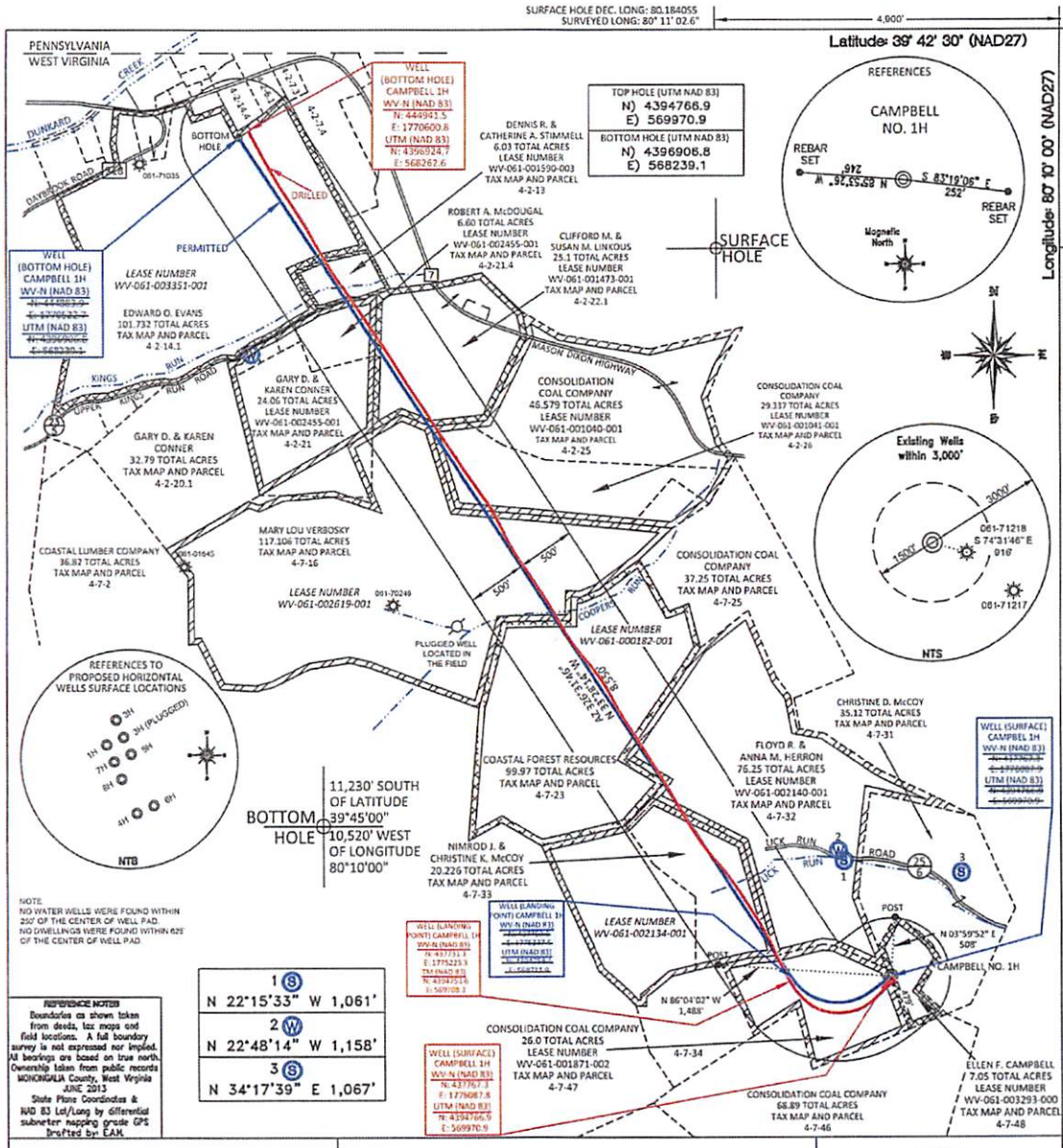
DRILL ☒ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☒
PLUG OFF FORMATION ☐ PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☐
CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 8,092.07' TMD: 17,363'

WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC DESIGNATED AGENT: JOHN ADAMS

ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200

CITY: CHARLESTON STATE: WV ZIP CODE: 25301 CITY: CHARLESTON STATE: WV ZIP CODE: 25301



FILE #: NNE12
DRAWING #: 2322
SCALE: PLAT: 1" = 1200' TICK: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

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(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

DATE: APRIL 19, 2016

OPERATOR'S WELL #: CAMPBELL NO. 1H AS-DRILLED

API WELL #: 47 (STATE) 61 (COUNTY) 01710 (PERMIT)

Well Type: ☐ Oil ☐ Waste Diposal ☐ Production ☐ Deep
☒ Gas ☐ Liquid Injection ☐ Storage ☒ Shallow

WATERSHED: DUNKARD CREEK
ELEVATION: 1,293.6'
COUNTY/DISTRICT: MONONGALIA / CLAY
QUADRANGLE: BLACKSVILLE
SURFACE OWNER: ELLEN F. CAMPBELL
ACREAGE: 7.05 +/-
OIL & GAS ROYALTY OWNER: ELLEN FOLEY CAMPBELL, ET AL
ACREAGE: 535.018 +/-
LEASE NUMBERS:

DRILL ☒ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☒
PLUG OFF FORMATION ☐ PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☐
CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY):

TARGET FORMATION: MARCELLUS
ESTIMATED DEPTH: TVD: 8,118' TMD: 17,282'
WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC
DESIGNATED AGENT: JOHN ADAMS
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301
CITY: CHARLESTON STATE: WV ZIP CODE: 25301

Schlumberger

Cementing Service Report

Customer	Job Number
Northeast natural Energy LLC	DCHA-00058

Well	Location (legal)	Schlumberger Location	Job Start
Campbell 1H 1 H			Jul/22/2015

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
Undesignated	Clean-Sandstone	0 deg	17.5 in	1292.0 ft	1292.0 ft

County	State/Provinc	BHP	BHST	BHCT	Pore Press. Gradient
Monongalia	West Virginia	1045 psi	74 degF	73 degF	lb/gal
Well Master 631643026	API/UWI 4706101710				

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	13 3/8" Surface

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

Service Instructions

13 3/8" Surface

25bbl Gel spacer with D130
10bbl Water behind
222bbl Tail at 15.6ppg (D901 Class A 1049sk, 1.19cuft/sk, 5.253gps, S001 1%, D046 0.2%, D130 0.13 lbs/sk)

Shut down / Drop top plug

188bbl Displacement by the tanks

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
50.0	24.0	140.0		
1262.6	13.4	54.5	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

Treat Down	Displacement	Packer Type	Packer Depth
Casing	188.0 bbl		ft

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

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

Lift Pressure	424 psi

Pipe Rotated	Pipe Reciprocated
☐	☐

No. Centralizers	Top Plugs	Bottom Plugs
10	1	

Cement Head Type	Single

Job Scheduled For	Arrived on Location	Leave Location
Jul/21/2015 22:30	Jul/21/2015 22:30	Jul/22/2015 07:30

Casing Tools

Shoe Type	Float
Shoe Depth	1262.6 ft
Stage Tool Type	
Stage Tool Depth	ft
Collar Type	Float
Collar Depth	1217.6 ft

Squeeze Job

Squeeze Type	
Tool Type	
Tool Depth	ft
Tail Pipe Size	in
Tail Pipe Depth	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
07/22/2015	03:06:21	4	8.36	0.0	0.0	0.0	0.0	Start Job
07/22/2015	03:07:06	4	8.37	0.0	0.0	0.0	0.0	
07/22/2015	03:07:51	4	8.37	0.0	0.0	0.0	0.0	
07/22/2015	03:08:36	14	8.37	0.0	0.0	0.0	0.0	
07/22/2015	03:09:21	33	8.35	0.4	0.3	0.0	0.3	
07/22/2015	03:10:00	52	8.36	3.2	2.0	0.0	2.0	Water temp 85F, Bulk temp 75F
07/22/2015	03:10:01	49	8.36	3.2	2.0	0.0	2.0	Slurry temp 105F
07/22/2015	03:10:06	52	8.36	3.2	2.3	0.0	2.3	
07/22/2015	03:10:51	52	8.36	3.2	4.7	0.0	4.7	
07/22/2015	03:11:36	17	8.37	0.0	0.0	0.0	5.1	
07/22/2015	03:12:21	278	8.37	0.0	0.0	0.0	5.1	
07/22/2015	03:13:06	271	8.37	0.0	0.0	0.0	5.1	
07/22/2015	03:13:51	3128	8.37	0.0	0.0	0.0	5.1	
07/22/2015	03:14:36	3083	8.37	0.0	0.0	0.0	5.1	
07/22/2015	03:15:18	3049	8.37	0.0	0.0	0.0	5.1	Pressure Test Lines
07/22/2015	03:15:21	3047	8.37	0.0	0.0	0.0	5.1	
07/22/2015	03:15:23	3045	8.37	0.0	0.0	0.0	5.1	Reset Total, Vol = 5.09 bbl
07/22/2015	03:16:06	3011	8.37	0.0	0.0	0.0	5.1	
07/22/2015	03:16:51	2981	8.37	0.0	0.0	0.0	5.1	
07/22/2015	03:17:36	2955	8.37	0.0	0.0	0.0	5.1	
07/22/2015	03:18:21	19	8.37	0.0	0.0	0.0	5.1	

Well	Field	Job Start	Customer	Job Number
Campbell 1H 1 H	Undesignated	Jul/22/2015	Northeast natural Energy LLC	DCHA-00058

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
07/22/2015	03:19:44	22	8.37	0.9	0.0	0.0	5.1	Start Pumping Water
07/22/2015	03:19:51	118	8.36	3.3	0.3	0.0	5.3	
07/22/2015	03:20:36	86	8.36	4.6	3.6	0.0	8.7	
07/22/2015	03:21:21	99	8.36	4.6	7.0	0.0	12.1	
07/22/2015	03:22:06	136	8.42	4.6	10.4	0.0	15.5	
07/22/2015	03:22:51	75	8.40	4.6	13.8	0.0	18.9	
07/22/2015	03:23:36	80	8.39	4.6	17.3	0.0	22.4	
07/22/2015	03:24:21	83	8.39	4.6	20.8	0.0	25.8	
07/22/2015	03:25:06	94	8.39	4.6	24.2	0.0	29.3	
07/22/2015	03:25:51	128	8.39	4.6	27.7	0.0	32.7	
07/22/2015	03:26:36	72	8.39	4.6	31.1	0.0	36.2	
07/22/2015	03:27:21	74	8.39	4.7	34.6	0.0	39.7	
07/22/2015	03:28:06	72	8.39	4.7	38.1	0.0	43.2	
07/22/2015	03:28:51	73	8.39	4.7	41.6	0.0	46.7	
07/22/2015	03:29:36	68	8.40	4.7	45.2	0.0	50.2	
07/22/2015	03:30:21	83	8.56	4.7	48.7	0.0	53.7	
07/22/2015	03:31:06	97	8.73	4.7	52.2	0.0	57.3	
07/22/2015	03:31:51	111	8.86	4.7	55.7	0.0	60.8	
07/22/2015	03:32:36	70	8.93	4.7	59.2	0.0	64.3	
07/22/2015	03:33:21	78	8.98	4.6	62.7	0.0	67.8	
07/22/2015	03:34:06	95	9.07	4.6	66.2	0.0	71.3	
07/22/2015	03:34:51	104	9.14	4.6	69.7	0.0	74.7	
07/22/2015	03:35:36	78	8.99	4.6	73.1	0.0	78.2	
07/22/2015	03:36:21	111	9.08	4.7	76.6	0.0	81.7	
07/22/2015	03:37:06	108	9.16	4.7	80.1	0.0	85.2	
07/22/2015	03:37:51	111	9.16	4.7	83.7	0.0	88.7	
07/22/2015	03:38:36	109	9.16	4.7	87.2	0.0	92.3	
07/22/2015	03:39:21	109	9.10	4.7	90.7	0.0	95.8	
07/22/2015	03:40:06	111	9.15	4.7	94.3	0.0	99.3	
07/22/2015	03:40:51	110	9.15	4.7	97.8	0.0	102.9	
07/22/2015	03:41:36	109	9.19	4.7	101.3	0.0	106.4	
07/22/2015	03:42:21	112	9.20	4.7	104.8	0.0	109.9	
07/22/2015	03:43:06	115	9.26	4.7	108.3	0.0	113.4	
07/22/2015	03:43:51	102	9.31	4.7	111.8	0.0	116.9	
07/22/2015	03:44:36	108	9.33	4.7	115.4	0.0	120.4	
07/22/2015	03:45:21	116	9.32	4.7	118.9	0.0	124.0	
07/22/2015	03:46:06	31	9.35	1.4	120.4	0.0	125.5	
07/22/2015	03:46:51	48	9.36	2.7	121.7	0.0	126.8	
07/22/2015	03:47:36	58	9.22	2.9	123.8	0.0	128.9	
07/22/2015	03:48:21	45	8.90	2.6	125.9	0.0	131.0	
07/22/2015	03:49:06	61	8.68	3.2	128.2	0.0	133.3	
07/22/2015	03:49:33	20	8.06	0.9	0.0	0.0	134.7	End Water
07/22/2015	03:49:43	16	8.37	0.0	0.1	0.0	134.7	Reset Total, Vol = 129.62 bbl
07/22/2015	03:49:51	15	8.39	0.0	0.1	0.0	134.7	
07/22/2015	03:50:36	14	8.39	0.0	0.0	0.0	134.7	
07/22/2015	03:51:21	13	8.38	0.0	0.0	0.0	134.7	
07/22/2015	03:51:58	56	8.42	2.4	0.1	0.0	134.8	Start Pumping Spacer
07/22/2015	03:52:06	78	8.62	3.6	0.5	0.0	135.2	
07/22/2015	03:52:51	102	8.59	4.6	3.7	0.0	138.4	
07/22/2015	03:53:36	104	8.62	4.6	7.1	0.0	141.8	
07/22/2015	03:54:21	105	8.59	4.7	10.6	0.0	145.3	
07/22/2015	03:55:06	105	8.60	4.7	14.2	0.0	148.9	
07/22/2015	03:55:51	99	8.65	4.5	17.5	0.0	152.2	
07/22/2015	03:56:36	102	8.57	4.5	20.9	0.0	155.6	

Well	Field	Job Start	Customer	Job Number
Campbell 1H 1 H	Undesignated	Jul/22/2015	Northeast natural Energy LLC	DCHA-00058

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
07/22/2015	03:57:54	86	8.41	4.5	1.8	0.0	161.5	End Spacer
07/22/2015	03:57:57	87	8.39	4.5	2.0	0.0	161.8	Reset Total, Vol = 27.13 bbl
07/22/2015	03:58:03	83	8.37	4.5	2.5	0.0	162.2	Start Pumping Water
07/22/2015	03:58:06	82	8.37	4.6	2.7	0.0	162.4	
07/22/2015	03:58:51	87	8.37	4.6	6.1	0.0	165.9	
07/22/2015	03:59:36	86	8.36	4.6	9.6	0.0	169.3	
07/22/2015	03:59:49	15	8.36	3.4	10.5	0.0	170.3	End Water
07/22/2015	03:59:51	17	8.36	2.2	10.7	0.0	170.4	Reset Total, Vol = 8.57 bbl
07/22/2015	04:00:21	11	8.36	0.0	0.0	0.0	170.5	
07/22/2015	04:01:06	11	8.36	0.0	0.0	0.0	170.5	
07/22/2015	04:01:51	12	8.36	0.0	0.0	0.0	170.5	
07/22/2015	04:02:36	12	8.36	0.0	0.0	0.0	170.5	
07/22/2015	04:03:21	12	8.36	0.0	0.0	0.0	170.5	
07/22/2015	04:04:06	12	8.36	0.0	0.0	0.0	170.5	
07/22/2015	04:04:51	52	2.07	1.3	0.4	0.0	170.9	
07/22/2015	04:05:21	159	14.87	4.0	0.9	0.0	171.4	Start Cement Slurry
07/22/2015	04:05:24	154	15.10	4.1	1.1	0.0	171.6	Start Mixing Tail Slurry
07/22/2015	04:05:36	183	15.16	4.7	2.0	0.0	172.5	
07/22/2015	04:06:21	226	15.50	4.5	5.3	0.0	175.8	
07/22/2015	04:07:06	294	15.62	6.5	8.9	0.0	179.3	
07/22/2015	04:07:51	112	15.67	5.1	13.2	0.0	183.7	
07/22/2015	04:08:36	266	15.69	6.2	17.3	0.0	187.7	
07/22/2015	04:09:21	308	15.67	6.6	22.1	0.0	192.6	
07/22/2015	04:10:06	371	15.63	6.6	27.1	0.0	197.5	
07/22/2015	04:10:51	315	15.64	6.6	32.0	0.0	202.5	
07/22/2015	04:11:36	295	15.64	6.6	36.9	0.0	207.4	
07/22/2015	04:12:21	285	15.66	6.6	41.9	0.0	212.3	
07/22/2015	04:13:06	295	15.69	6.6	46.8	0.0	217.3	
07/22/2015	04:13:51	302	15.70	6.6	51.8	0.0	222.3	
07/22/2015	04:14:36	324	15.71	6.6	56.7	0.0	227.2	
07/22/2015	04:15:21	306	15.74	6.6	61.7	0.0	232.2	
07/22/2015	04:16:06	283	15.74	6.6	66.6	0.0	237.1	
07/22/2015	04:16:51	274	15.74	6.6	71.6	0.0	242.1	
07/22/2015	04:17:36	299	15.71	6.6	76.6	0.0	247.0	
07/22/2015	04:18:21	313	15.68	6.6	81.5	0.0	252.0	
07/22/2015	04:19:06	321	15.68	6.6	86.5	0.0	256.9	
07/22/2015	04:19:51	298	15.69	6.6	91.4	0.0	261.9	
07/22/2015	04:20:36	288	15.65	6.6	96.4	0.0	266.9	
07/22/2015	04:21:21	308	15.63	6.6	101.4	0.0	271.8	
07/22/2015	04:22:06	290	15.65	6.6	106.3	0.0	276.8	
07/22/2015	04:22:51	169	15.66	4.7	110.3	0.0	280.8	
07/22/2015	04:23:36	156	15.69	4.7	113.8	0.0	284.3	
07/22/2015	04:24:21	167	15.75	4.7	117.3	0.0	287.8	
07/22/2015	04:25:06	187	15.66	4.7	120.8	0.0	291.3	
07/22/2015	04:25:51	189	15.69	4.7	124.4	0.0	294.8	
07/22/2015	04:26:36	180	15.69	4.7	127.9	0.0	298.3	
07/22/2015	04:27:21	195	15.71	4.7	131.4	0.0	301.8	
07/22/2015	04:28:06	183	15.68	4.7	134.9	0.0	305.4	
07/22/2015	04:28:51	159	15.66	4.7	138.4	0.0	308.9	
07/22/2015	04:29:36	162	15.67	4.7	141.9	0.0	312.4	
07/22/2015	04:30:21	176	15.61	4.7	145.5	0.0	315.9	
07/22/2015	04:31:06	194	15.57	4.7	149.0	0.0	319.4	
07/22/2015	04:31:51	181	15.58	4.7	152.5	0.0	323.0	
07/22/2015	04:32:36	163	15.60	4.7	156.0	0.0	326.5	

Well	Field	Job Start	Customer	Job Number
Campbell 1H 1 H	Undesignated	Jul/22/2015	Northeast natural Energy LLC	DCHA-00058

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
07/22/2015	04:34:06	171	15.59	4.7	163.1	0.0	333.5	
07/22/2015	04:34:51	169	15.58	4.7	166.6	0.0	337.1	
07/22/2015	04:35:36	107	15.59	3.6	170.1	0.0	340.5	
07/22/2015	04:36:21	102	15.59	3.5	172.7	0.0	343.1	
07/22/2015	04:37:06	94	15.66	3.4	175.2	0.0	345.7	
07/22/2015	04:37:51	82	15.65	3.3	177.7	0.0	348.2	
07/22/2015	04:38:36	100	15.64	3.5	180.2	0.0	350.7	
07/22/2015	04:39:21	107	15.64	3.7	182.9	0.0	353.4	
07/22/2015	04:40:06	-14	15.56	2.0	185.7	0.0	356.1	
07/22/2015	04:40:51	-3	15.55	0.0	185.8	0.0	356.3	
07/22/2015	04:41:36	-1	15.55	0.0	185.8	0.0	356.3	
07/22/2015	04:42:21	-0	15.55	0.0	185.8	0.0	356.3	
07/22/2015	04:43:06	1	15.55	0.0	185.8	0.0	356.3	
07/22/2015	04:43:51	0	15.56	0.0	185.8	0.0	356.3	
07/22/2015	04:44:36	95	15.58	3.5	187.4	0.0	357.9	
07/22/2015	04:45:21	85	15.62	3.3	190.0	0.0	360.5	
07/22/2015	04:46:06	71	15.63	2.9	192.4	0.0	362.9	
07/22/2015	04:46:51	82	15.61	3.2	194.5	0.0	365.0	
07/22/2015	04:47:36	199	15.59	4.0	197.0	0.0	367.4	
07/22/2015	04:48:21	158	15.60	4.6	200.3	0.0	370.8	
07/22/2015	04:49:06	226	15.58	4.6	203.8	0.0	374.2	
07/22/2015	04:49:51	200	15.58	4.6	207.1	0.0	377.6	
07/22/2015	04:50:36	131	15.58	4.5	210.6	0.0	381.0	
07/22/2015	04:51:21	120	15.51	3.8	213.6	0.0	384.0	
07/22/2015	04:52:06	114	15.56	3.8	216.4	0.0	386.9	
07/22/2015	04:52:51	106	15.59	3.8	219.3	0.0	389.8	
07/22/2015	04:53:36	113	15.75	3.7	222.0	0.0	392.5	
07/22/2015	04:54:16	1	15.88	0.9	224.3	0.0	394.8	End Tail Slurry
07/22/2015	04:54:20	2	15.94	0.1	224.4	0.0	394.9	Reset Total, Vol = 224.46 bbl
07/22/2015	04:54:21	2	15.94	0.0	0.0	0.0	394.9	
07/22/2015	04:54:30	4	15.92	0.0	0.0	0.0	394.9	End Cement Slurry
07/22/2015	04:55:06	3	15.89	0.0	0.0	0.0	394.9	
07/22/2015	04:55:51	4	15.88	0.0	0.0	0.0	394.9	
07/22/2015	04:56:36	4	15.86	0.0	0.0	0.0	394.9	
07/22/2015	04:56:39	4	15.86	0.0	0.0	0.0	394.9	Drop Top Plug
07/22/2015	04:57:21	6	15.86	0.0	0.0	0.0	394.9	
07/22/2015	04:58:02	69	9.44	2.7	1.2	1.2	396.0	Start Displacement
07/22/2015	04:58:06	43	9.44	2.8	1.4	1.4	396.2	
07/22/2015	04:58:51	75	9.24	4.7	4.1	4.1	398.9	
07/22/2015	04:59:36	63	8.88	4.7	7.6	7.6	402.5	
07/22/2015	05:00:21	80	8.88	4.8	11.2	11.2	406.0	
07/22/2015	05:01:06	75	8.84	4.8	14.8	14.8	409.7	
07/22/2015	05:01:51	60	8.52	4.7	18.4	18.4	413.3	
07/22/2015	05:02:36	66	8.50	4.9	22.0	22.0	416.9	
07/22/2015	05:03:21	112	8.37	6.2	25.9	25.9	420.8	
07/22/2015	05:04:06	119	8.40	6.2	30.6	30.6	425.4	
07/22/2015	05:04:51	117	8.38	6.2	35.2	35.2	430.1	
07/22/2015	05:05:36	117	8.20	6.1	39.9	39.9	434.7	
07/22/2015	05:06:21	99	8.33	6.2	44.7	44.7	439.6	
07/22/2015	05:07:06	108	7.56	6.4	49.6	49.6	444.4	
07/22/2015	05:07:51	109	8.36	6.1	54.2	54.2	449.1	
07/22/2015	05:08:36	111	8.36	6.1	58.8	58.8	453.7	
07/22/2015	05:09:21	112	8.36	6.1	63.5	63.5	458.3	
07/22/2015	05:10:06	113	8.37	6.1	68.1	68.1	462.9	

Well	Field	Job Start	Customer	Job Number
Campbell 1H 1 H	Undesignated	Jul/22/2015	Northeast natural Energy LLC	DCHA-00058

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
07/22/2015	05:11:36	148	8.37	6.1	77.3	77.3	472.1	
07/22/2015	05:12:21	172	8.37	6.1	81.9	81.9	476.7	
07/22/2015	05:13:06	193	8.26	6.2	86.5	86.5	481.3	
07/22/2015	05:13:51	175	8.09	6.1	91.0	91.0	485.9	
07/22/2015	05:14:36	221	8.29	6.1	95.6	95.6	490.4	
07/22/2015	05:15:21	250	8.36	6.1	100.1	100.1	495.0	
07/22/2015	05:16:06	304	8.37	6.1	104.7	104.7	499.6	
07/22/2015	05:16:51	312	8.34	6.1	109.3	109.3	504.2	
07/22/2015	05:17:36	324	8.37	6.1	113.9	113.9	508.7	
07/22/2015	05:18:21	318	8.37	6.1	118.4	118.4	513.3	
07/22/2015	05:19:06	380	8.37	6.1	123.0	123.0	517.9	
07/22/2015	05:19:51	389	8.37	6.1	127.6	127.6	522.4	
07/22/2015	05:20:36	357	8.37	6.1	132.1	132.1	527.0	
07/22/2015	05:21:21	358	8.37	6.1	136.7	136.7	531.5	
07/22/2015	05:22:06	429	8.37	6.1	141.2	141.2	536.1	
07/22/2015	05:22:51	492	8.37	6.1	145.8	145.8	540.7	
07/22/2015	05:23:36	495	8.37	6.1	150.4	150.3	545.2	
07/22/2015	05:24:21	461	8.37	6.1	154.9	154.9	549.8	
07/22/2015	05:25:06	446	8.37	6.1	159.5	159.5	554.3	
07/22/2015	05:25:51	500	8.37	5.9	163.9	163.9	558.8	
07/22/2015	05:26:36	482	8.37	4.6	167.6	167.6	562.4	
07/22/2015	05:27:21	446	8.37	3.4	170.6	170.6	565.5	
07/22/2015	05:28:06	536	8.37	3.4	173.1	173.1	568.0	
07/22/2015	05:28:51	539	8.37	3.4	175.7	175.7	570.5	
07/22/2015	05:29:36	490	8.37	3.4	178.2	178.2	573.0	
07/22/2015	05:30:21	446	8.37	3.4	180.7	180.7	575.6	
07/22/2015	05:31:06	524	8.37	3.2	183.2	183.2	578.0	
07/22/2015	05:31:51	613	8.37	3.3	185.6	185.6	580.5	
07/22/2015	05:32:36	541	8.37	3.3	188.1	188.1	583.0	
07/22/2015	05:33:21	531	8.37	3.3	190.6	190.6	585.5	
07/22/2015	05:34:06	482	8.37	3.3	193.1	193.1	588.0	
07/22/2015	05:34:51	587	8.37	3.3	195.6	195.6	590.5	
07/22/2015	05:35:36	1146	8.37	0.0	197.6	197.6	592.5	
07/22/2015	05:36:21	1137	8.37	0.0	197.6	197.6	592.5	
07/22/2015	05:37:06	1136	8.37	0.0	197.6	197.6	592.5	
07/22/2015	05:37:51	1136	8.37	0.0	197.6	197.6	592.5	
07/22/2015	05:38:36	1135	8.37	0.0	197.6	197.6	592.5	
07/22/2015	05:39:21	1134	8.37	0.0	197.6	197.6	592.5	
07/22/2015	05:39:55	1134	8.37	0.0	197.6	197.6	592.5	Bump Top Plug
07/22/2015	05:40:06	1134	8.37	0.0	197.6	197.6	592.5	
07/22/2015	05:40:51	1132	8.37	0.0	197.6	197.6	592.5	
07/22/2015	05:41:36	572	8.37	0.0	197.6	197.6	592.5	
07/22/2015	05:42:13	10	8.37	0.0	197.6	197.6	592.5	End Displacement

Well	Field	Job Start	Customer	Job Number
Campbell 1H 1 H	Undesignated	Jul/22/2015	Northeast natural Energy LLC	DCHA-00058

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
4.8			8.2	592.5	0.0	161.6	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
3297	10	293	1150		FreshWater	bbl	8.34 lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp			
%	219.0 bbl	197.6 bbl	85 degF	Cement Circulated to Surface?	X	Volume 38.0 bbl
				Washed Thru Perfs		To ft

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

Schlumberger

Cementing Service Report

Customer	Job Number
Northeast Energy	216011

Well	Location (legal)	Schlumberger Location	Job Start
Campbell 1H	Us Energy 9	WWV	Jul/25/2015

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
Undesignat		deg	in	2450.0 ft	ft

County	State/Provinc	BHP	BHST	BHCT	Pore Press. Gradient
Monongalia	West Virginia	psi	degF	degF	lb/gal
Well Master	API/UWI 4706101710				

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

Service Instructions

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
1250.0	13.4	54.5	J-55	
2400.0	9.6	40.0	J-55	

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

Treat Down	Displacement	Packer Type	Packer Depth
Casing	bbl		ft

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
bbl	180.0 bbl	bbl	bbl

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

Lift Pressure	1100 psi

Pipe Rotated	Pipe Reciprocated

No. Centralizers	Top Plugs	Bottom Plugs
	1	

Cement Head Type

Job Scheduled For	Arrived on Location	Leave Location
Jul/25/2015	Jul/25/2015	Jul/25/2015

Casing Tools

Shoe Type	Guide
Shoe Depth	2420.0 ft
Stage Tool Type	
Stage Tool Depth	ft
Collar Type	Float
Collar Depth	2375.0 ft

Squeeze Job

Squeeze Type	
Tool Type	
Tool Depth	ft
Tail Pipe Size	in
Tail Pipe Depth	ft
Sqz. Total Vol.	bbl

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
07/25/2015	04:34:04	0	0.0	0.05	0.0	Started Acquisition
07/25/2015	04:35:44	0	0.0	0.05	0.0	
07/25/2015	04:37:24	140	4.4	7.73	2.7	
07/25/2015	04:39:04	19	0.0	8.27	9.1	
07/25/2015	04:40:44	65	2.9	8.26	10.0	
07/25/2015	04:42:24	56	2.9	8.20	14.2	
07/25/2015	04:44:04	4	0.0	8.32	0.0	
07/25/2015	04:45:44	3	0.0	8.31	0.1	
07/25/2015	04:47:24	3	0.0	8.31	0.1	
07/25/2015	04:49:04	3	0.1	8.30	0.1	
07/25/2015	04:50:44	2	0.1	8.30	0.3	
07/25/2015	04:52:24	2	0.1	8.30	0.4	
07/25/2015	04:54:04	3	0.1	8.30	0.6	
07/25/2015	04:55:44	2	0.1	8.29	0.8	
07/25/2015	04:57:24	-2	0.1	8.29	1.0	
07/25/2015	04:59:04	22	2.4	8.18	0.0	
07/25/2015	05:00:00	59	3.5	8.30	2.4	Start Job
07/25/2015	05:00:44	11	0.0	8.30	4.4	
07/25/2015	05:01:00	8	0.0	8.29	4.4	Pressure Test Lines
07/25/2015	05:02:24	2339	0.0	8.30	4.5	
07/25/2015	05:04:04	62	0.0	8.27	4.5	

Well	Field	Job Start	Customer	Job Number
Campbell 1H	Undesignat	Jul/25/2015	Northeast Energy	216011

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
07/25/2015	05:05:44	5	0.0	8.27	4.5	
07/25/2015	05:07:24	157	6.5	8.27	13.0	
07/25/2015	05:09:04	163	6.5	8.27	23.8	
07/25/2015	05:10:44	163	6.5	8.27	34.6	
07/25/2015	05:12:24	164	6.5	8.27	45.3	
07/25/2015	05:14:04	163	6.5	8.27	56.1	
07/25/2015	05:15:44	147	6.5	8.27	66.9	
07/25/2015	05:17:24	150	6.5	8.27	77.6	
07/25/2015	05:19:04	152	6.5	8.27	88.4	
07/25/2015	05:20:44	139	6.5	8.27	99.1	
07/25/2015	05:22:24	134	6.5	8.27	109.9	
07/25/2015	05:24:04	139	6.5	8.27	120.6	
07/25/2015	05:25:44	148	6.4	8.27	131.4	
07/25/2015	05:27:24	138	6.5	8.27	142.1	
07/25/2015	05:29:04	141	6.4	8.27	152.9	
07/25/2015	05:30:44	139	6.4	8.27	163.6	
07/25/2015	05:32:24	152	6.4	8.27	174.4	
07/25/2015	05:34:04	140	6.4	8.27	185.1	
07/25/2015	05:35:44	138	6.4	8.27	195.9	
07/25/2015	05:37:24	153	6.5	8.27	206.6	
07/25/2015	05:39:04	157	6.5	8.27	217.4	
07/25/2015	05:40:44	157	6.4	8.27	228.1	
07/25/2015	05:42:24	151	6.4	8.27	238.8	
07/25/2015	05:44:04	168	6.4	8.27	249.6	
07/25/2015	05:45:44	93	4.5	8.26	258.8	
07/25/2015	05:46:06	-8	2.1	8.26	260.4	Reset Total, Vol = 255.98 bbl
07/25/2015	05:47:00	87	4.3	8.25	261.4	Start Pumping Spacer
07/25/2015	05:47:24	94	4.3	8.26	263.1	
07/25/2015	05:49:04	94	4.5	8.44	270.4	
07/25/2015	05:50:44	112	4.4	8.61	277.8	
07/25/2015	05:51:00	112	4.4	8.63	279.0	End Spacer
07/25/2015	05:52:00	102	4.4	8.51	283.5	Start Pumping Spacer
07/25/2015	05:52:24	89	4.4	8.34	285.2	
07/25/2015	05:52:31	86	4.4	8.39	285.7	Reset Total, Vol = 25.36 bbl
07/25/2015	05:54:04	-5	0.0	8.36	288.0	
07/25/2015	05:55:44	-6	0.0	8.36	288.0	
07/25/2015	05:57:24	-7	0.0	8.36	288.0	
07/25/2015	05:59:04	-7	0.0	8.36	288.0	
07/25/2015	06:00:44	-1	0.3	8.34	288.0	
07/25/2015	06:02:24	42	3.7	8.29	292.8	
07/25/2015	06:04:04	17	2.8	8.48	298.8	
07/25/2015	06:05:00	102	4.3	13.13	302.4	End Spacer
07/25/2015	06:05:03	105	4.3	13.27	302.6	Reset Total, Vol = 16.87 bbl
07/25/2015	06:05:44	230	5.8	14.99	306.0	
07/25/2015	06:07:24	257	5.8	15.56	315.7	
07/25/2015	06:09:04	258	5.8	15.56	325.3	
07/25/2015	06:10:44	266	5.8	15.65	335.0	
07/25/2015	06:12:24	255	5.8	15.60	344.6	
07/25/2015	06:14:04	266	5.8	15.59	354.3	
07/25/2015	06:15:44	257	5.8	15.61	364.0	
07/25/2015	06:17:24	251	5.8	15.64	373.6	
07/25/2015	06:19:04	255	5.8	15.69	383.3	
07/25/2015	06:20:44	265	5.8	15.65	392.9	
07/25/2015	06:22:24	252	5.8	15.52	402.6	

Well	Field	Job Start	Customer	Job Number
Campbell 1H	Undesignat	Jul/25/2015	Northeast Energy	216011

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
07/25/2015	06:25:44	269	5.8	15.62	421.9	
07/25/2015	06:27:24	265	5.8	15.66	431.5	
07/25/2015	06:29:04	257	5.8	15.63	441.2	
07/25/2015	06:30:44	256	5.8	15.67	450.8	
07/25/2015	06:32:24	276	5.8	15.62	460.5	
07/25/2015	06:34:04	278	5.8	15.86	470.1	
07/25/2015	06:35:44	2	0.0	16.66	476.6	
07/25/2015	06:37:24	4	0.0	16.65	476.6	
07/25/2015	06:38:00	5	0.0	16.63	476.6	End Tail Slurry
07/25/2015	06:38:12	5	0.0	16.63	476.6	Reset Total, Vol = 173.90 bbl
07/25/2015	06:39:04	68	4.2	9.32	478.0	
07/25/2015	06:40:00	62	4.4	8.55	482.1	Drop Top Plug
07/25/2015	06:40:44	57	4.4	8.37	485.4	
07/25/2015	06:41:00	60	4.4	8.23	486.5	Start Displacement
07/25/2015	06:42:24	57	4.4	8.19	492.8	
07/25/2015	06:44:04	57	4.4	8.10	500.1	
07/25/2015	06:45:44	58	4.5	8.17	507.5	
07/25/2015	06:47:24	56	4.5	8.25	515.0	
07/25/2015	06:49:04	100	5.8	8.25	524.5	
07/25/2015	06:50:44	100	5.8	8.26	534.2	
07/25/2015	06:52:24	97	5.8	8.26	543.9	
07/25/2015	06:54:04	104	5.8	8.25	553.6	
07/25/2015	06:55:44	113	5.8	8.26	563.4	
07/25/2015	06:57:24	210	5.7	8.26	573.0	
07/25/2015	06:59:04	308	5.7	8.26	582.5	
07/25/2015	07:00:44	413	5.7	8.25	592.0	
07/25/2015	07:02:24	512	5.7	8.26	601.5	
07/25/2015	07:04:04	615	5.7	8.26	611.0	
07/25/2015	07:05:44	725	5.7	8.26	620.4	
07/25/2015	07:07:24	829	5.7	8.26	629.9	
07/25/2015	07:09:04	936	5.7	8.26	639.3	
07/25/2015	07:10:44	829	2.3	8.25	646.6	
07/25/2015	07:12:24	994	2.3	8.25	650.5	
07/25/2015	07:14:04	1019	2.3	8.25	654.3	
07/25/2015	07:15:44	1039	2.3	8.25	658.2	
07/25/2015	07:17:24	1059	2.3	8.25	662.0	
07/25/2015	07:19:04	1700	0.0	8.26	664.8	
07/25/2015	07:20:00	1689	0.0	6.82	664.8	End Displacement
07/25/2015	07:20:44	1686	0.0	8.26	665.2	
07/25/2015	07:22:24	1680	0.0	8.26	665.2	

Well	Field	Job Start	Customer	Job Number
Campbell 1H	Undesignat	Jul/25/2015	Northeast Energy	216011

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
5.0			6.5	174.0		25.0	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
1700	500		1700			bbl	lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp		
%	176.0 bbl	178.0 bbl	79 degF	Cement Circulated to Surface? [X]	Volume 20.0 bbl
				Washed Thru Perfs [ ]	To ft

Customer or Authorized Representative	Schlumberger Supervisor		
JIM	Ryan Osbon	Circulation Lost [ ]	Job Completed [X]
		-	-

Schlumberger

Cementing Service Report

Customer	Job Number
Northeast Natural Energy	DJT7-00035

Well	Location (legal)	Schlumberger Location	Job Start
Campbell 1H 1H			Feb/19/2016

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
Undesignated	Shale	90 deg	8.5 in	17338.0 ft	7170.0 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
	PA	psi	144 degF	121 degF	lb/gal

Well Master	API/UWI
0631643026	4706101710

Rig Name	Drilled For	Service Via
XO8	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	Production

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

Service Instructions

Northeast Natural Energy
Campbell 1H production primary well
Pump MP spacer 100 bbl @ 13.5 ppg
Pump tail slurry cement 710 bbl @ 14.5 ppg
Sks 3340 Yield 1.21 h2o-5.190 gal/sk
Drop top Plug (3rd party)
Displace 385 bbl H2O
Bump top plug
Check floats and returns
10 bbl cement to surface

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
17331.0	5.5	20.0	110	BUTT
0.0	0.0	0.0		

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

Treat Down	Displacement	Packer Type	Packer Depth
Casing	385.0 bbl	none	0.0 ft

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
bbl	386.0 bbl	bbl	1125.0 bbl

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

Lift Pressure	14150 psi

Pipe Rotated	Pipe Reciprocated
☐	☐

No. Centralizers	Top Plugs	Bottom Plugs
	1	

Cement Head Type	Double

Job Scheduled For	Arrived on Location	Leave Location
Feb/18/2016 21:00	Feb/18/2016 21:00	Feb/19/2016 09:00

Casing Tools

Shoe Type	Float
Shoe Depth	17338.0 ft
Stage Tool Type	toe sleeve
Stage Tool Depth	0.0 ft
Collar Type	Float
Collar Depth	17331.0 ft

Squeeze Job

Squeeze Type	
Tool Type	
Tool Depth	ft
Tail Pipe Size	in
Tail Pipe 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
02/19/2016	03:06:38	6	0.0	8.42	0.0	0.0	0.0	Started Acquisition
02/19/2016	03:07:23	52	2.9	8.38	1.4	0.0	1.4	
02/19/2016	03:08:08	10	0.0	8.39	1.8	0.0	1.8	
02/19/2016	03:08:53	1	0.0	8.39	1.8	0.0	1.8	
02/19/2016	03:09:38	-0	0.0	8.39	1.8	0.0	1.8	
02/19/2016	03:10:23	-1	0.0	8.39	1.8	0.0	1.8	
02/19/2016	03:11:08	-1	0.0	8.39	1.8	0.0	1.8	
02/19/2016	03:11:53	-1	0.0	8.39	1.8	0.0	1.8	
02/19/2016	03:12:38	-1	0.0	8.39	1.8	0.0	1.8	
02/19/2016	03:13:23	-1	0.0	8.39	1.8	0.0	1.8	
02/19/2016	03:14:08	-0	0.0	8.39	1.8	0.0	1.8	
02/19/2016	03:14:53	73	0.0	8.39	2.3	0.0	2.3	
02/19/2016	03:15:38	417	0.7	8.37	2.8	0.0	2.8	
02/19/2016	03:16:23	714	4.0	8.37	4.7	0.0	4.7	
02/19/2016	03:17:08	625	4.0	8.38	7.7	0.0	7.7	
02/19/2016	03:17:53	227	0.0	8.38	7.9	0.0	7.9	
02/19/2016	03:18:38	913	0.0	8.38	7.9	0.0	7.9	
02/19/2016	03:19:23	789	0.0	8.38	7.9	0.0	7.9	
02/19/2016	03:20:08	5607	0.0	8.38	7.9	0.0	7.9	
02/19/2016	03:20:53	7435	0.0	8.38	7.9	0.0	7.9	
02/19/2016	03:21:38	7417	0.0	8.38	7.9	0.0	7.9	

Well	Field	Job Start	Customer	Job Number
Campbell 1H 1H	Undesignated	Feb/19/2016	Northeast Natural Energy	DJT7-00035

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
02/19/2016	03:23:08	7392	0.0	8.38	7.9	0.0	7.9	
02/19/2016	03:23:53	7383	0.0	8.38	7.9	0.0	7.9	
02/19/2016	03:24:38	4	0.0	8.38	7.9	0.0	7.9	
02/19/2016	03:25:23	265	0.0	8.38	7.9	0.0	7.9	
02/19/2016	03:26:08	272	0.0	8.38	7.9	0.0	7.9	
02/19/2016	03:26:53	271	0.0	8.38	7.9	0.0	7.9	
02/19/2016	03:27:38	271	0.0	8.38	7.9	0.0	7.9	
02/19/2016	03:28:23	269	0.0	8.38	7.9	0.0	7.9	
02/19/2016	03:28:44	268	0.0	8.38	7.9	0.0	7.9	Reset Total, Vol = 7.90 bbl
02/19/2016	03:28:46	267	0.0	8.38	0.0	0.0	7.9	Start Job
02/19/2016	03:28:49	268	0.0	8.38	0.0	0.0	7.9	Pressure Test Lines
02/19/2016	03:29:08	268	0.0	8.38	0.0	0.0	7.9	
02/19/2016	03:29:53	273	0.0	8.38	0.0	0.0	7.9	
02/19/2016	03:30:38	274	0.0	8.38	0.0	0.0	7.9	
02/19/2016	03:31:23	274	0.0	8.38	0.0	0.0	7.9	
02/19/2016	03:32:08	883	4.4	13.21	0.6	0.0	8.5	
02/19/2016	03:32:46	819	4.5	13.50	3.4	0.0	11.3	Start Pumping Spacer
02/19/2016	03:32:53	821	4.5	13.55	3.9	0.0	11.8	
02/19/2016	03:33:38	828	4.5	13.66	7.3	0.0	15.2	
02/19/2016	03:34:23	1161	6.1	13.66	11.2	0.0	19.1	
02/19/2016	03:35:08	1041	6.3	13.68	15.6	0.0	23.5	
02/19/2016	03:35:53	1005	6.4	13.63	20.4	0.0	28.3	
02/19/2016	03:36:38	1002	6.4	13.56	25.1	0.0	33.0	
02/19/2016	03:37:23	1026	6.4	13.50	29.9	0.0	37.8	
02/19/2016	03:38:08	1004	6.4	13.41	34.7	0.0	42.6	
02/19/2016	03:38:53	1001	6.4	13.42	39.5	0.0	47.4	
02/19/2016	03:39:38	821	5.2	13.44	43.5	0.0	51.4	
02/19/2016	03:40:23	788	5.2	13.36	47.4	0.0	55.3	
02/19/2016	03:41:08	815	5.2	13.58	51.3	0.0	59.2	
02/19/2016	03:41:53	766	5.2	13.65	55.1	0.0	63.0	
02/19/2016	03:42:38	777	5.2	13.60	59.0	0.0	66.9	
02/19/2016	03:43:23	784	5.2	13.61	62.9	0.0	70.8	
02/19/2016	03:43:28	721	5.2	13.60	63.3	0.0	71.2	Weight confirmed 13.55 ppg
02/19/2016	03:44:08	906	6.4	13.62	67.5	0.0	75.4	
02/19/2016	03:44:53	893	6.4	13.65	72.3	0.0	80.2	
02/19/2016	03:45:38	865	6.4	13.56	77.0	0.0	84.9	
02/19/2016	03:46:11	874	6.4	13.55	80.6	0.0	88.5	Water Results temp 52F PH 7
02/19/2016	03:46:21	889	6.4	13.56	81.6	0.0	89.5	CL<200 mg/l
02/19/2016	03:46:23	863	6.4	13.56	81.8	0.0	89.7	
02/19/2016	03:46:32	900	6.4	13.57	82.8	0.0	90.7	Hardness <100 ppm
02/19/2016	03:47:08	867	6.4	13.58	86.6	0.0	94.5	
02/19/2016	03:47:53	861	6.4	13.51	91.4	0.0	99.3	
02/19/2016	03:48:38	843	6.4	13.67	96.2	0.0	104.1	
02/19/2016	03:49:23	45	0.0	13.98	99.8	0.0	107.7	End Spacer
02/19/2016	03:49:24	45	0.0	13.98	99.8	0.0	107.7	Reset Total, Vol = 99.80 bbl
02/19/2016	03:50:08	38	0.0	13.95	0.0	0.0	107.7	
02/19/2016	03:50:53	31	0.0	13.95	0.0	0.0	107.7	
02/19/2016	03:51:38	29	0.0	13.94	0.0	0.0	107.7	
02/19/2016	03:52:23	26	0.0	13.94	0.0	0.0	107.7	
02/19/2016	03:53:08	34	0.0	13.93	0.0	0.0	107.7	
02/19/2016	03:53:53	34	0.0	13.93	0.0	0.0	107.7	
02/19/2016	03:54:38	33	0.0	13.92	0.0	0.0	107.7	
02/19/2016	03:55:23	31	0.0	13.92	0.0	0.0	107.7	
02/19/2016	03:56:08	33	0.0	13.91	0.0	0.0	107.7	

Well	Field	Job Start	Customer	Job Number
Campbell 1H 1H	Undesignated	Feb/19/2016	Northeast Natural Energy	DJT7-00035

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
02/19/2016	03:57:38	31	0.0	13.90	0.0	0.0	107.7	
02/19/2016	03:58:23	1004	4.4	14.78	1.7	0.0	109.4	
02/19/2016	03:58:38	853	4.5	14.75	2.8	0.0	110.6	Start Mixing Lead Slurry
02/19/2016	03:59:08	827	4.5	14.61	5.1	0.0	112.8	
02/19/2016	03:59:53	1283	6.3	14.63	9.5	0.0	117.2	
02/19/2016	04:00:38	1253	6.3	14.62	14.2	0.0	121.9	
02/19/2016	04:01:23	1235	6.3	14.56	19.0	0.0	126.7	
02/19/2016	04:02:08	1202	6.3	14.53	23.7	0.0	131.4	
02/19/2016	04:02:53	1184	6.3	14.51	28.5	0.0	136.2	
02/19/2016	04:03:38	1141	6.3	14.50	33.2	0.0	140.9	
02/19/2016	04:04:23	660	4.5	14.43	37.7	0.0	145.4	
02/19/2016	04:05:08	474	3.3	14.56	40.3	0.0	148.0	
02/19/2016	04:05:53	707	4.5	14.59	43.1	0.0	150.9	
02/19/2016	04:06:38	696	4.5	14.64	46.5	0.0	154.2	
02/19/2016	04:07:23	668	4.5	14.66	49.8	0.0	157.5	
02/19/2016	04:08:08	635	4.5	14.65	53.2	0.0	160.9	
02/19/2016	04:08:53	612	4.5	14.65	56.5	0.0	164.2	
02/19/2016	04:09:38	601	4.5	14.65	59.9	0.0	167.6	
02/19/2016	04:10:23	578	4.5	14.62	63.2	0.0	170.9	
02/19/2016	04:11:08	567	4.5	14.57	66.6	0.0	174.3	
02/19/2016	04:11:53	1042	6.3	14.54	70.8	0.0	178.5	
02/19/2016	04:12:38	1023	6.3	14.54	75.5	0.0	183.2	
02/19/2016	04:13:23	995	6.3	14.58	80.3	0.0	188.0	
02/19/2016	04:14:08	1018	6.3	14.62	85.0	0.0	192.7	
02/19/2016	04:14:53	988	6.3	14.62	89.8	0.0	197.5	
02/19/2016	04:15:38	965	6.3	14.61	94.5	0.0	202.2	
02/19/2016	04:16:23	963	6.3	14.58	99.3	0.0	207.0	
02/19/2016	04:17:08	923	6.3	14.56	104.0	0.0	211.7	
02/19/2016	04:17:53	906	6.3	14.55	108.8	0.0	216.5	
02/19/2016	04:18:38	900	6.3	14.52	113.5	0.0	221.2	
02/19/2016	04:19:23	871	6.3	14.50	118.3	0.0	226.0	
02/19/2016	04:20:08	901	6.3	14.50	123.1	0.0	230.8	
02/19/2016	04:20:53	883	6.4	14.51	127.8	0.0	235.5	
02/19/2016	04:21:38	907	6.3	14.50	132.6	0.0	240.3	
02/19/2016	04:21:51	859	6.3	14.50	134.0	0.0	241.7	Weight Confirmed 14.6 ppg
02/19/2016	04:22:23	881	6.3	14.51	137.3	0.0	245.0	
02/19/2016	04:23:08	875	6.3	14.51	142.1	0.0	249.8	
02/19/2016	04:23:53	888	6.3	14.52	146.9	0.0	254.6	
02/19/2016	04:24:38	866	6.3	14.53	151.6	0.0	259.3	
02/19/2016	04:26:08	888	6.3	14.51	161.1	0.0	268.8	
02/19/2016	04:26:53	859	6.3	14.52	165.9	0.0	273.6	
02/19/2016	04:27:38	848	6.3	14.53	170.7	0.0	278.4	
02/19/2016	04:28:23	855	6.3	14.54	175.4	0.0	283.1	
02/19/2016	04:29:08	858	6.3	14.55	180.2	0.0	287.9	
02/19/2016	04:29:53	886	6.3	14.56	184.9	0.0	292.6	
02/19/2016	04:30:38	892	6.3	14.53	189.7	0.0	297.4	
02/19/2016	04:31:23	904	6.3	14.53	194.5	0.0	302.2	
02/19/2016	04:32:08	930	6.3	14.54	199.2	0.0	306.9	
02/19/2016	04:32:53	936	6.3	14.56	204.0	0.0	311.7	
02/19/2016	04:33:38	940	6.3	14.56	208.7	0.0	316.4	
02/19/2016	04:34:23	941	6.3	14.56	213.5	0.0	321.2	
02/19/2016	04:35:08	894	6.3	14.52	218.3	0.0	326.0	
02/19/2016	04:35:53	917	6.4	14.50	223.0	0.0	330.7	
02/19/2016	04:36:38	505	4.4	14.45	227.1	0.0	334.8	

Well	Field	Job Start	Customer	Job Number
Campbell 1H 1H	Undesignated	Feb/19/2016	Northeast Natural Energy	DJT7-00035

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
02/19/2016	04:38:08	509	4.4	14.52	233.8	0.0	341.5	
02/19/2016	04:38:53	542	4.5	14.66	237.1	0.0	344.8	
02/19/2016	04:39:38	915	6.3	14.63	240.9	0.0	348.6	
02/19/2016	04:40:23	896	6.3	14.59	245.7	0.0	353.4	
02/19/2016	04:41:08	995	6.3	14.56	250.5	0.0	358.2	
02/19/2016	04:41:53	997	6.3	14.53	255.2	0.0	362.9	
02/19/2016	04:42:38	1000	6.3	14.52	260.0	0.0	367.7	
02/19/2016	04:43:22	1038	6.3	14.51	264.6	0.0	372.3	Slurry Temp 70 F
02/19/2016	04:43:23	1015	6.3	14.51	264.7	0.0	372.4	
02/19/2016	04:43:40	1036	6.3	14.51	266.5	0.0	374.2	Bulk temp 34 F
02/19/2016	04:44:08	1023	6.3	14.51	269.5	0.0	377.2	
02/19/2016	04:44:53	1045	6.3	14.51	274.2	0.0	381.9	
02/19/2016	04:45:38	1053	6.3	14.51	279.0	0.0	386.7	
02/19/2016	04:46:23	1050	6.3	14.51	283.7	0.0	391.4	
02/19/2016	04:47:08	1055	6.3	14.49	288.5	0.0	396.2	
02/19/2016	04:47:53	1022	6.3	14.49	293.2	0.0	400.9	
02/19/2016	04:48:38	1060	6.3	14.50	298.0	0.0	405.7	
02/19/2016	04:49:23	1071	6.3	14.50	302.7	0.0	410.4	
02/19/2016	04:50:08	1065	6.3	14.50	307.5	0.0	415.2	
02/19/2016	04:50:53	1071	6.3	14.50	312.2	0.0	419.9	
02/19/2016	04:51:38	1056	6.3	14.49	317.0	0.0	424.7	
02/19/2016	04:52:23	1067	6.3	14.49	321.7	0.0	429.4	
02/19/2016	04:53:08	1083	6.3	14.48	326.4	0.0	434.2	
02/19/2016	04:53:53	1086	6.3	14.48	331.2	0.0	438.9	
02/19/2016	04:54:38	1098	6.3	14.47	335.9	0.0	443.7	
02/19/2016	04:55:23	1108	6.3	14.47	340.7	0.0	448.4	
02/19/2016	04:56:08	1111	6.3	14.47	345.4	0.0	453.1	
02/19/2016	04:56:53	1150	6.3	14.47	350.2	0.0	457.9	
02/19/2016	04:57:38	1138	6.3	14.47	354.9	0.0	462.6	
02/19/2016	04:58:23	1112	6.3	14.47	359.7	0.0	467.4	
02/19/2016	04:59:08	1122	6.3	14.47	364.4	0.0	472.1	
02/19/2016	04:59:53	1132	6.3	14.47	369.2	0.0	476.9	
02/19/2016	05:00:38	1139	6.3	14.47	373.9	0.0	481.6	
02/19/2016	05:01:23	1207	6.3	14.48	378.7	0.0	486.4	
02/19/2016	05:02:08	1199	6.3	14.48	383.4	0.0	491.1	
02/19/2016	05:02:53	1209	6.3	14.47	388.2	0.0	495.9	
02/19/2016	05:03:38	628	4.5	14.45	392.5	0.0	500.3	
02/19/2016	05:04:23	671	4.4	14.55	395.9	0.0	503.6	
02/19/2016	05:05:08	1303	6.3	14.57	399.7	0.0	507.4	
02/19/2016	05:05:53	1267	6.3	14.54	404.4	0.0	512.1	
02/19/2016	05:06:38	1281	6.3	14.59	409.2	0.0	516.9	
02/19/2016	05:07:23	1306	6.3	14.64	413.9	0.0	521.6	
02/19/2016	05:08:08	1293	6.3	14.62	418.6	0.0	526.4	
02/19/2016	05:08:53	1291	6.3	14.60	423.4	0.0	531.1	
02/19/2016	05:09:38	1293	6.3	14.57	428.1	0.0	535.8	
02/19/2016	05:10:23	1291	6.3	14.54	432.9	0.0	540.6	
02/19/2016	05:11:08	1330	6.3	14.52	437.6	0.0	545.3	
02/19/2016	05:11:53	1315	6.3	14.50	442.3	0.0	550.0	
02/19/2016	05:12:38	1318	6.3	14.50	447.1	0.0	554.8	
02/19/2016	05:13:23	1338	6.3	14.50	451.8	0.0	559.5	
02/19/2016	05:14:08	1369	6.3	14.51	456.6	0.0	564.3	
02/19/2016	05:14:53	1380	6.3	14.50	461.3	0.0	569.0	
02/19/2016	05:15:38	1404	6.3	14.51	466.0	0.0	573.7	
02/19/2016	05:16:23	1414	6.3	14.51	470.8	0.0	578.5	

Well	Field	Job Start	Customer	Job Number
Campbell 1H 1H	Undesignated	Feb/19/2016	Northeast Natural Energy	DJT7-00035

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
02/19/2016	05:17:53	1396	6.3	14.50	480.2	0.0	587.9	
02/19/2016	05:18:38	1398	6.3	14.50	485.0	0.0	592.7	
02/19/2016	05:19:23	1415	6.3	14.51	489.7	0.0	597.4	
02/19/2016	05:20:08	1427	6.3	14.51	494.4	0.0	602.2	
02/19/2016	05:20:53	1484	6.3	14.51	499.2	0.0	606.9	
02/19/2016	05:21:38	1452	6.3	14.50	503.9	0.0	611.6	
02/19/2016	05:22:23	1449	6.3	14.50	508.6	0.0	616.3	
02/19/2016	05:23:08	1471	6.3	14.49	513.4	0.0	621.1	
02/19/2016	05:23:53	1452	6.3	14.44	518.1	0.0	625.8	
02/19/2016	05:24:38	1463	6.3	14.46	522.8	0.0	630.5	
02/19/2016	05:25:23	1481	6.3	14.48	527.6	0.0	635.3	
02/19/2016	05:26:08	1494	6.3	14.46	532.3	0.0	640.0	
02/19/2016	05:26:53	1516	6.3	14.48	537.0	0.0	644.7	
02/19/2016	05:27:38	1540	6.3	14.49	541.8	0.0	649.5	
02/19/2016	05:28:23	1545	6.3	14.49	546.5	0.0	654.2	
02/19/2016	05:29:08	1553	6.3	14.47	551.2	0.0	658.9	
02/19/2016	05:29:53	912	4.4	14.48	555.6	0.0	663.4	
02/19/2016	05:30:38	1005	4.4	14.46	559.0	0.0	666.7	
02/19/2016	05:31:23	970	4.4	14.43	562.3	0.0	670.0	
02/19/2016	05:32:08	1596	6.3	14.48	565.8	0.0	673.5	
02/19/2016	05:32:53	1617	6.4	14.50	570.6	0.0	678.3	
02/19/2016	05:33:38	1622	6.3	14.50	575.3	0.0	683.0	
02/19/2016	05:34:23	1615	6.3	14.50	580.0	0.0	687.7	
02/19/2016	05:35:08	1655	6.3	14.52	584.8	0.0	692.5	
02/19/2016	05:35:53	1686	6.3	14.52	589.5	0.0	697.2	
02/19/2016	05:36:38	1689	6.3	14.54	594.2	0.0	701.9	
02/19/2016	05:37:23	1682	6.3	14.56	598.9	0.0	706.6	
02/19/2016	05:38:08	1703	6.3	14.57	603.7	0.0	711.4	
02/19/2016	05:38:53	1714	6.3	14.58	608.4	0.0	716.1	
02/19/2016	05:39:38	1747	6.3	14.58	613.1	0.0	720.8	
02/19/2016	05:40:23	1783	6.3	14.57	617.8	0.0	725.5	
02/19/2016	05:41:08	1794	6.3	14.58	622.6	0.0	730.3	
02/19/2016	05:41:53	1789	6.3	14.59	627.3	0.0	735.0	
02/19/2016	05:42:38	1770	6.3	14.59	632.0	0.0	739.7	
02/19/2016	05:43:23	1768	6.3	14.55	636.7	0.0	744.4	
02/19/2016	05:44:08	1836	6.3	14.53	641.4	0.0	749.2	
02/19/2016	05:44:53	1844	6.3	14.52	646.2	0.0	753.9	
02/19/2016	05:45:38	1853	6.3	14.52	650.9	0.0	758.6	
02/19/2016	05:46:23	1841	6.3	14.50	655.6	0.0	763.3	
02/19/2016	05:47:08	1857	6.3	14.51	660.3	0.0	768.1	
02/19/2016	05:47:53	1883	6.3	14.51	665.1	0.0	772.8	
02/19/2016	05:48:38	1885	6.3	14.50	669.8	0.0	777.5	
02/19/2016	05:49:23	1881	6.3	14.48	674.5	0.0	782.2	
02/19/2016	05:50:08	1923	6.3	14.50	679.2	0.0	786.9	
02/19/2016	05:50:53	1930	6.3	14.52	684.0	0.0	791.7	
02/19/2016	05:51:38	1964	6.3	14.54	688.7	0.0	796.4	
02/19/2016	05:52:23	1987	6.3	14.55	693.4	0.0	801.1	
02/19/2016	05:53:08	1987	6.3	14.56	698.1	0.0	805.8	
02/19/2016	05:53:53	2001	6.3	14.57	702.8	0.0	810.5	
02/19/2016	05:54:38	2022	6.3	14.56	707.5	0.0	815.3	
02/19/2016	05:55:23	2039	6.3	14.55	712.3	0.0	820.0	
02/19/2016	05:56:08	2049	6.3	14.54	717.0	0.0	824.7	
02/19/2016	05:56:53	2068	6.3	14.53	721.7	0.0	829.4	
02/19/2016	05:57:38	2070	6.3	14.53	726.4	0.0	834.1	

Well	Field	Job Start	Customer	Job Number
Campbell 1H 1H	Undesignated	Feb/19/2016	Northeast Natural Energy	DJT7-00035

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
02/19/2016	05:59:08	462	0.8	14.61	733.4	0.0	841.1	
02/19/2016	05:59:53	106	0.0	14.65	733.4	0.0	841.1	
02/19/2016	06:00:38	1	0.4	14.55	733.5	0.0	841.2	
02/19/2016	06:01:23	347	3.8	9.88	734.4	0.0	842.1	
02/19/2016	06:02:08	147	4.1	8.49	737.5	0.0	845.2	
02/19/2016	06:02:53	156	4.2	9.98	740.5	0.0	848.3	
02/19/2016	06:03:38	129	4.2	8.90	743.7	0.0	851.5	
02/19/2016	06:04:23	118	3.9	8.38	746.5	0.0	854.2	
02/19/2016	06:05:08	106	0.0	8.38	748.7	0.0	856.5	
02/19/2016	06:05:53	101	0.0	8.38	748.7	0.0	856.5	
02/19/2016	06:06:38	-30	0.0	8.37	749.0	0.0	856.8	
02/19/2016	06:07:23	-18	0.0	8.37	749.0	0.0	856.8	
02/19/2016	06:08:08	-17	0.0	8.38	749.0	0.0	856.8	
02/19/2016	06:08:53	550	1.6	8.40	749.2	0.0	856.9	
02/19/2016	06:09:38	1039	3.1	8.41	751.3	0.0	859.0	
02/19/2016	06:10:23	1116	3.2	8.41	753.7	0.0	861.4	
02/19/2016	06:11:08	1155	3.4	8.40	755.8	0.0	863.5	
02/19/2016	06:11:53	1734	6.0	8.39	758.7	0.0	866.4	
02/19/2016	06:12:38	1828	6.1	8.36	763.2	0.0	871.0	
02/19/2016	06:13:23	1882	6.0	8.36	767.8	0.0	875.5	
02/19/2016	06:14:07	2324	7.6	8.37	772.6	0.0	880.3	Reset Total, Vol = 772.57 bbl
02/19/2016	06:14:08	2310	7.6	8.37	0.1	0.0	880.4	End Lead Slurry
02/19/2016	06:14:10	2329	7.7	8.36	0.4	0.0	880.7	Drop Top Plug
02/19/2016	06:14:15	2309	7.7	8.36	1.0	0.6	881.3	Start Displacement
02/19/2016	06:14:53	2379	7.7	8.36	5.9	5.4	886.2	
02/19/2016	06:15:38	2504	7.8	8.35	11.7	11.2	891.9	
02/19/2016	06:16:23	2580	7.8	8.35	17.5	17.0	897.8	
02/19/2016	06:17:08	2650	7.8	8.35	23.3	22.9	903.6	
02/19/2016	06:17:53	2736	7.8	8.35	29.1	28.7	909.4	
02/19/2016	06:18:38	2825	7.8	8.35	35.0	34.5	915.2	
02/19/2016	06:19:23	2923	7.8	8.36	40.8	40.3	921.1	
02/19/2016	06:20:08	3009	7.8	8.35	46.6	46.1	926.9	
02/19/2016	06:20:53	3119	7.7	8.35	52.4	52.0	932.7	
02/19/2016	06:21:38	3214	7.7	8.35	58.2	57.8	938.5	
02/19/2016	06:22:23	3295	7.7	8.35	64.0	63.6	944.3	
02/19/2016	06:23:08	3378	7.7	8.35	69.8	69.3	950.1	
02/19/2016	06:23:53	3447	7.6	8.35	75.5	75.1	955.8	
02/19/2016	06:24:38	3536	7.6	8.36	81.2	80.8	961.5	
02/19/2016	06:25:23	3632	7.5	8.36	86.9	86.4	967.2	
02/19/2016	06:26:08	3712	7.5	8.35	92.5	92.1	972.8	
02/19/2016	06:26:53	3787	7.5	8.35	98.1	97.6	978.4	
02/19/2016	06:27:38	3867	7.4	8.35	103.7	103.2	983.9	
02/19/2016	06:28:23	3984	7.4	8.36	109.2	108.8	989.5	
02/19/2016	06:29:08	4047	7.3	8.35	114.7	114.3	995.0	
02/19/2016	06:29:53	4120	7.3	8.35	120.2	119.7	1000.4	
02/19/2016	06:30:38	4188	7.1	8.35	125.5	125.1	1005.8	
02/19/2016	06:31:23	4258	7.1	8.36	130.9	130.5	1011.2	
02/19/2016	06:32:08	4334	7.1	8.36	136.2	135.8	1016.5	
02/19/2016	06:32:53	4405	7.0	8.36	141.5	141.1	1021.8	
02/19/2016	06:33:38	4454	7.0	8.36	146.7	146.3	1027.0	
02/19/2016	06:34:23	4206	5.5	8.36	151.3	150.9	1031.6	
02/19/2016	06:35:08	4206	5.5	8.36	155.4	155.0	1035.7	
02/19/2016	06:35:53	4268	5.5	8.36	159.5	159.1	1039.8	
02/19/2016	06:36:38	4288	5.4	8.36	163.6	163.2	1043.9	

Well	Field	Job Start	Customer	Job Number
Campbell 1H 1H	Undesignated	Feb/19/2016	Northeast Natural Energy	DJT7-00035

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
02/19/2016	06:38:08	4302	5.4	8.36	171.8	171.4	1052.0	
02/19/2016	06:38:53	4279	5.4	8.36	175.8	175.4	1056.1	
02/19/2016	06:39:38	4312	5.4	8.36	179.9	179.5	1060.2	
02/19/2016	06:40:23	4298	5.4	8.36	184.0	183.6	1064.3	
02/19/2016	06:41:08	4316	5.5	8.36	188.1	187.7	1068.4	
02/19/2016	06:41:53	4313	5.4	8.36	192.2	191.8	1072.4	
02/19/2016	06:42:38	4295	5.4	8.36	196.2	195.8	1076.5	
02/19/2016	06:43:23	4339	5.4	8.36	200.3	199.9	1080.6	
02/19/2016	06:44:08	4281	5.4	8.36	204.4	204.0	1084.7	
02/19/2016	06:44:53	4333	5.4	8.36	208.5	208.1	1088.8	
02/19/2016	06:45:38	4293	5.4	8.36	212.6	212.1	1092.8	
02/19/2016	06:46:23	4328	5.4	8.36	216.6	216.2	1096.9	
02/19/2016	06:47:08	4318	5.4	8.36	220.7	220.3	1101.0	
02/19/2016	06:47:53	4330	5.4	8.36	224.8	224.4	1105.1	
02/19/2016	06:48:38	4340	5.4	8.36	228.9	228.5	1109.2	
02/19/2016	06:49:23	4311	5.4	8.36	232.9	232.5	1113.2	
02/19/2016	06:50:08	4345	5.4	8.36	237.0	236.6	1117.3	
02/19/2016	06:50:53	4294	5.4	8.36	241.1	240.7	1121.4	
02/19/2016	06:51:38	4328	5.4	8.36	245.2	244.8	1125.5	
02/19/2016	06:52:23	4300	5.4	8.36	249.2	248.8	1129.5	
02/19/2016	06:53:08	4291	5.4	8.36	253.3	252.9	1133.6	
02/19/2016	06:53:53	4329	5.4	8.36	257.4	257.0	1137.7	
02/19/2016	06:54:38	4300	5.4	8.36	261.5	261.1	1141.8	
02/19/2016	06:55:23	4317	5.4	8.36	265.5	265.1	1145.8	
02/19/2016	06:56:08	4314	5.5	8.36	269.6	269.2	1149.9	
02/19/2016	06:56:53	4293	5.4	8.36	273.7	273.3	1154.0	
02/19/2016	06:57:38	4317	5.4	8.36	277.8	277.4	1158.1	
02/19/2016	06:58:23	4254	5.4	8.36	281.9	281.5	1162.2	
02/19/2016	06:59:08	4286	5.5	8.36	286.0	285.6	1166.3	
02/19/2016	06:59:53	4242	5.5	8.36	290.1	289.7	1170.4	
02/19/2016	07:00:38	4259	5.5	8.36	294.2	293.8	1174.5	
02/19/2016	07:01:23	4237	5.5	8.36	298.3	297.9	1178.6	
02/19/2016	07:02:08	4257	5.5	8.36	302.4	302.0	1182.7	
02/19/2016	07:02:53	4256	5.5	8.36	306.5	306.1	1186.8	
02/19/2016	07:03:38	4238	5.5	8.36	310.6	310.2	1190.9	
02/19/2016	07:04:23	4247	5.5	8.36	314.7	314.3	1195.0	
02/19/2016	07:05:08	4199	5.5	8.36	318.8	318.4	1199.1	
02/19/2016	07:05:53	4216	5.5	8.36	322.9	322.5	1203.2	
02/19/2016	07:06:38	4179	5.5	8.36	327.0	326.6	1207.3	
02/19/2016	07:07:23	4209	5.5	8.36	331.2	330.8	1211.5	
02/19/2016	07:08:08	4192	5.5	8.36	335.3	334.9	1215.6	
02/19/2016	07:08:53	4155	5.6	8.36	339.4	339.0	1219.7	
02/19/2016	07:09:38	4129	5.5	8.36	343.6	343.2	1223.9	
02/19/2016	07:10:23	4131	5.6	8.36	347.8	347.4	1228.1	
02/19/2016	07:11:08	4139	5.6	8.36	351.9	351.5	1232.2	
02/19/2016	07:11:53	4923	0.0	8.39	355.1	354.8	1235.4	
02/19/2016	07:12:15	4985	0.0	8.39	355.1	354.8	1235.4	Bump Top Plug
02/19/2016	07:12:17	5001	0.0	8.39	355.1	354.8	1235.4	End Displacement
02/19/2016	07:12:38	5012	0.0	8.39	355.1	354.8	1235.4	
02/19/2016	07:13:23	5080	0.0	8.39	355.1	354.8	1235.4	
02/19/2016	07:14:08	5054	0.0	8.39	355.1	354.8	1235.4	
02/19/2016	07:14:53	5053	0.0	8.39	355.1	354.8	1235.4	
02/19/2016	07:15:38	5080	0.0	8.39	355.1	354.8	1235.4	
02/19/2016	07:16:23	5086	0.0	8.39	355.1	354.8	1235.4	

Well	Field	Job Start	Customer	Job Number
Campbell 1H 1H	Undesignated	Feb/19/2016	Northeast Natural Energy	DJT7-00035

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
02/19/2016	07:17:53	5001	0.0	8.39	355.1	354.8	1235.4	
02/19/2016	07:18:38	1923	0.0	8.39	355.1	354.8	1235.4	
02/19/2016	07:19:23	-17	0.0	8.39	355.1	354.8	1235.4	
02/19/2016	07:19:38	-18	0.0	8.39	355.1	354.8	1235.4	6.5 bbl Bled Back

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
5.9			7.8	710.0	0.0	99.8	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
7478	-19	1940	5050			bbl	lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume
%	710.0 bbl	380.0 bbl	53 degF	X	10.0 bbl
				Washed Thru Perfs ☐	To ft

Customer or Authorized Representative	Schlumberger Supervisor	Circulation Lost	Job Completed
	Donald Casler	-	X
		-	-