

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

API 47-061-01698 County Monongalia District Clay
Quad Blacksville, WV Pad Name Statler Field/Pool Name Blacksville
Farm name Moore, Rebecca & Statler Well Number 10H
Operator (as registered with the OOG) Northeast Natural Energy LLC
Address 707 Virginia St. 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 4395650.1 Easting 570459.3
Landing Point of Curve Northing 4395722.3 Easting 570863.9
Bottom Hole Northing 4394659.2 Easting 572183.5

Elevation (ft) 1,061' 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 for 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 2/27/2015 Date drilling commenced 6/16/2015 Date drilling ceased 8/18/2015
Date completion activities began 9/14/2015 Date completion activities ceased 9/24/2015
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

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Freshwater depth(s) ft 912' Open mine(s) (Y/N) depths _____ N
Salt water depth(s) ft 1,951' Void(s) encountered (Y/N) depths _____ N
Coal depth(s) ft 280', 360', 641' Cavern(s) encountered (Y/N) depths _____ N
Is coal being mined in area (Y/N) _____ N

ATF.FLOVEL
NAME: Harvey R. D.
DATE: 3/3/2016

Reviewed by: [Signature]
03/11/2016
AK 03/07/16

API 47-061 - 01698 Farm name Moore, Rebecca & Statler Well number 10H

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	1,013'	N	54.5	N/A	Y .75 bbls
Coal							
Intermediate 1	12.25	9 5/8	2,178'	N	40	N/A	Y 1 bbl
Intermediate 2							
Intermediate 3							
Production	8.5	5.5	13,817'	N	20	N/A	Y 4.5 bbls
Tubing	4.771	2.875	8,217'	N	6.5	N/A	
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	1004	15.2	1.27	1,271	CTS	8
Coal							
Intermediate 1	Class A	858	15.6	1.26	1,074	CTS	8
Intermediate 2							
Intermediate 3							
Production	50/50 Premium NE-1.3% R-3.3% MPA170	3192	14.5	1.17	2,661	CTS	48
Tubing							

Drillers TD (ft) 13,830' Loggers TD (ft) 13,801'
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure _____

Kick off depth (ft) 6,743'

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 third joint or approx 120'

Intermediate: bow spring centralizers every third joint or approx 120'

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

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS Completed in a multi-stage plug-and-perforate manner.

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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API 47- 061 - 01698 Farm name Moore, Rebecca & Statler Well number 10H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
Please See Attachment					

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)

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Please insert additional pages as applicable.

API 47- 061 - 01698 Farm name Moore, Rebecca & Statler Well number 10H

PRODUCING FORMATION(S)	DEPTHS		
Marcellus	7,945'	TVD	13,830' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3977 psi Bottom Hole _____ psi DURATION OF TEST 48 hrs

OPEN FLOW Gas 5,112 mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		Please See Attachment

Please insert additional pages as applicable.

Drilling Contractor Patterson-UTI Drilling
Address 207 Carlton Drive City Eighty Four State PA Zip 15330

Logging Company Baker Hughes
Address 837 Phillippi Pike City Clarksburg State WV Zip 26301

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

Stimulating Company C&J Energy Services, Inc.
Address 380 Southpointe Blvd, Suite 210 City Canonsburg State PA Zip 15317

Please insert additional pages as applicable.

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Completed by Zack Arnold Telephone 304.241.5752 Ext. 7105
Signature  Title General Manager - Operations Date 11 FEB 16

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

03/11/2016

Lithology/Formation	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, H2S, etc)
Grey Shale/coal/sandstone	0	654			sand/coal/shale
Coal	654	660			coal
Grey Shale/sand	660	1810			sand/shale
Salt sand	1810	1942			sand
Grey shale/sand	1942	2000			shale/sand
Lime	2000	2100			limestone
Big Injun	2100	2160			sand
Sand/Shale	2160	7229			sand/shale
Middlesex	7193	7585	7305	7713	shale
Geneseo	7585	7635	7713	7773	shale
Tully	7635	7681	7773	7828	limestone
Hamilton	7681	7800	7828	8014	shale
Marcellus	7800	7850	8014	8136	shale
Cherry Valley	7850	7855	8136	8148	limestone
Lower Marcellus	7855		8148		shale

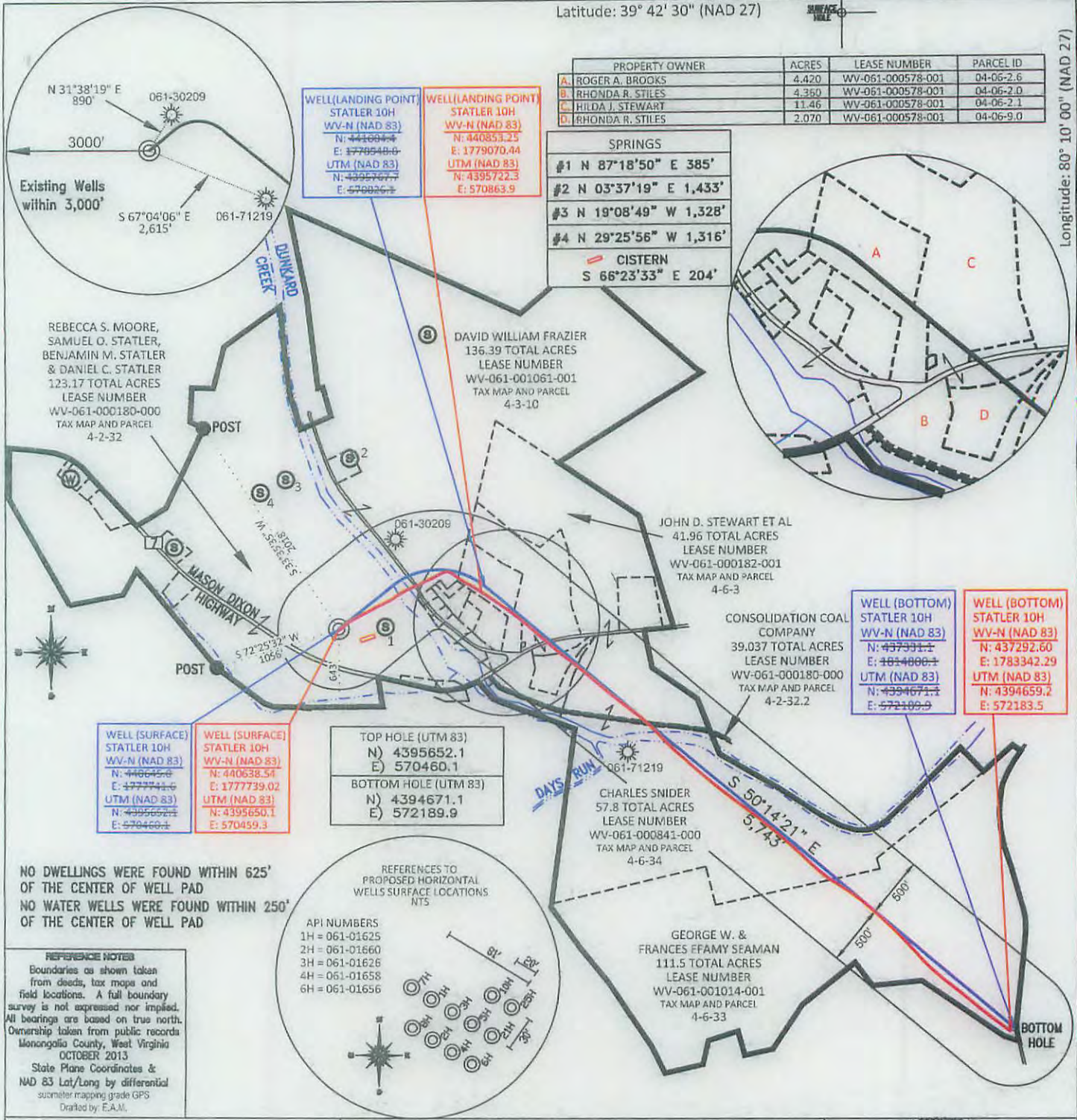
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SURFACE HOLE DEC. LONG: 80.178049
SURVEYED LONG: 80° 10' 41.7"

Latitude: 39° 42' 30" (NAD 27)

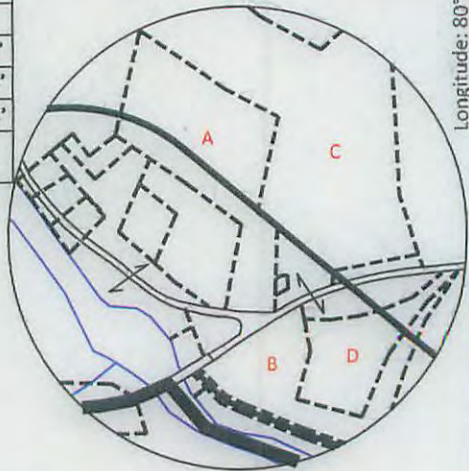
3,260'

Longitude: 80° 10' 00" (NAD 27)
SURFACE HOLE DEC. LAT: 39° 42' 30"
SURVEYED LAT: 39° 42' 27.9"



PROPERTY OWNER	ACRES	LEASE NUMBER	PARCEL ID
A. ROGER A. BROOKS	4.420	WV-061-000578-001	04-06-2.6
B. RHONDA R. STILES	4.360	WV-061-000578-001	04-06-2.0
C. HILDA J. STEWART	11.46	WV-061-000578-001	04-06-2.1
D. RHONDA R. STILES	2.070	WV-061-000578-001	04-06-9.0

- SPRINGS**
- #1 N 87°18'50" E 385'
 - #2 N 03°37'19" E 1,433'
 - #3 N 19°08'49" W 1,328'
 - #4 N 29°25'56" W 1,316'
- CISTERN**
S 66°23'33" E 204'



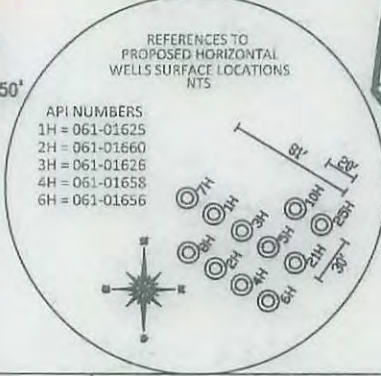
WELL (SURFACE) STATLER 10H WV-N (NAD 83) N: 4406126.6 E: 4777741.6 UTM (NAD 83) N: 4395652.1 E: 570460.1	WELL (SURFACE) STATLER 10H WV-N (NAD 83) N: 440638.54 E: 1777739.02 UTM (NAD 83) N: 4395650.1 E: 570459.3
---	--

TOP HOLE (UTM 83) N) 4395652.1 E) 570460.1	BOTTOM HOLE (UTM 83) N) 4394671.1 E) 572189.9
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WELL (BOTTOM) STATLER 10H WV-N (NAD 83) N: 437331.2 E: 4814800.1 UTM (NAD 83) N: 4394671.1 E: 572189.9	WELL (BOTTOM) STATLER 10H WV-N (NAD 83) N: 437292.60 E: 1783342.29 UTM (NAD 83) N: 4394659.2 E: 572183.5
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NO DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF WELL PAD
NO WATER WELLS WERE FOUND WITHIN 250' OF THE CENTER OF WELL PAD

REFERENCE NOTES
Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records Monongalia County, West Virginia OCTOBER 2013
State Plane Coordinates & NAD 83 Lat/Long by differential srometer mapping grade GPS
Drafted by: E.A.M.



FILE #: NNE007
DRAWING #: 2452
SCALE: PLAT = (1"=1200')
TICK MARK = (1"=2000')
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE SUBMETER MAPPING OF ELEVATION: 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

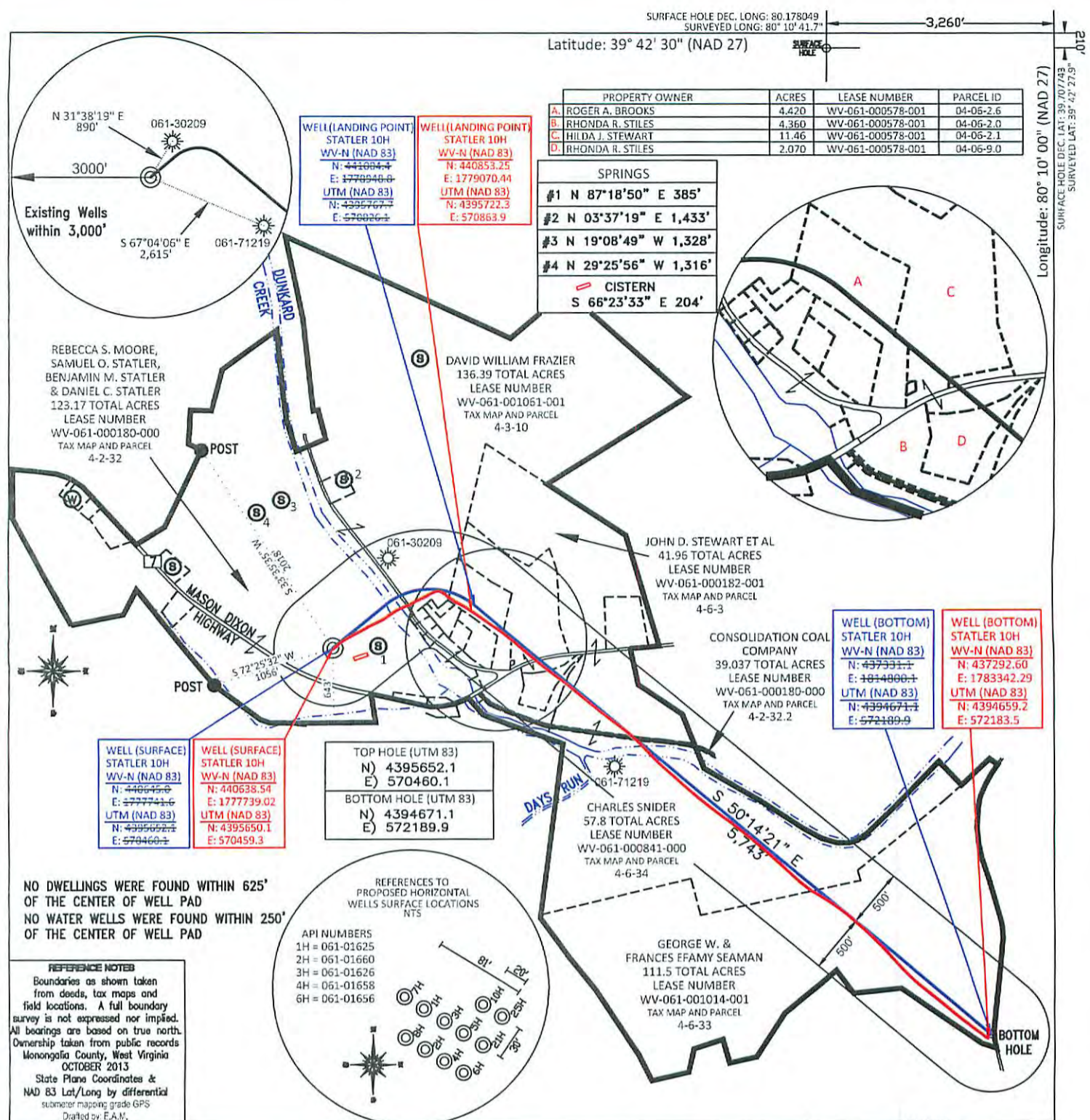


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304
Well Type: Oil Waste Diposal Production Deep
 Gas Liquid Injection Storage Shallow
WATERSHED: DUNKARD CREEK
COUNTY/DISTRICT: MONONGALIA / CLAY
SURFACE OWNER: REBECCA S. MOORE, SAMUEL O. STATLER, BENJAMIN M. STATLER & DANIEL C. STATLER
OIL & GAS ROYALTY OWNER: REBECCA S. MOORE, SAMUEL O. STATLER, BENJAMIN M. STATLER & DANIEL C. STATLER
LEASE NUMBERS:

DATE: DECEMBER 18, 2015
OPERATOR'S WELL #: STATLER NO. 10H AS-DRILLED
API WELL #: 47 61 01698 H6A
STATE COUNTY PERMIT
ASBUILT
ELEVATION : 1,061'

ACREAGE: 123.17 +/-
ACREAGE: 532.16 +/-
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
WELL OPERATOR : NORTHEAST NATURAL ENERGY LLC
ADDRESS: 707 VIRGINIA STREET SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301
ESTIMATED DEPTH: TVD: 7,945.87' TMD: 13,830'
DESIGNATED AGENT : JOHN ADAMS
ADDRESS: 707 VIRGINIA STREET SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301

03/11/2016



FILE #: NNE007
DRAWING #: 2452
SCALE: PLAT = (1"=1200')
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PROVEN SOURCE SUBMETER MAPPING OF ELEVATION: GRADE GPS

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Signed: *[Signature]*
L.L.S. #2124 : Ernest J. Benchek III



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WYDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

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

WATERSHED: DUNKARD CREEK ASBUILT ELEVATION: 1,061'

COUNTY/DISTRICT: MONONGALIA / CLAY QUADRANGLE: BLACKSVILLE, WV.

SURFACE OWNER: REBECCA S. MOORE, SAMUEL D. STATLER, BENJAMIN M. STATLER & DANIEL C. STATLER ACREAGE: 123.17 +/-

OIL & GAS ROYALTY OWNER: REBECCA S. MOORE, SAMUEL D. STATLER, BENJAMIN M. STATLER & DANIEL C. STATLER ACREAGE: 532.16 +/-

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: 7,945.87' TMD: 13,830'

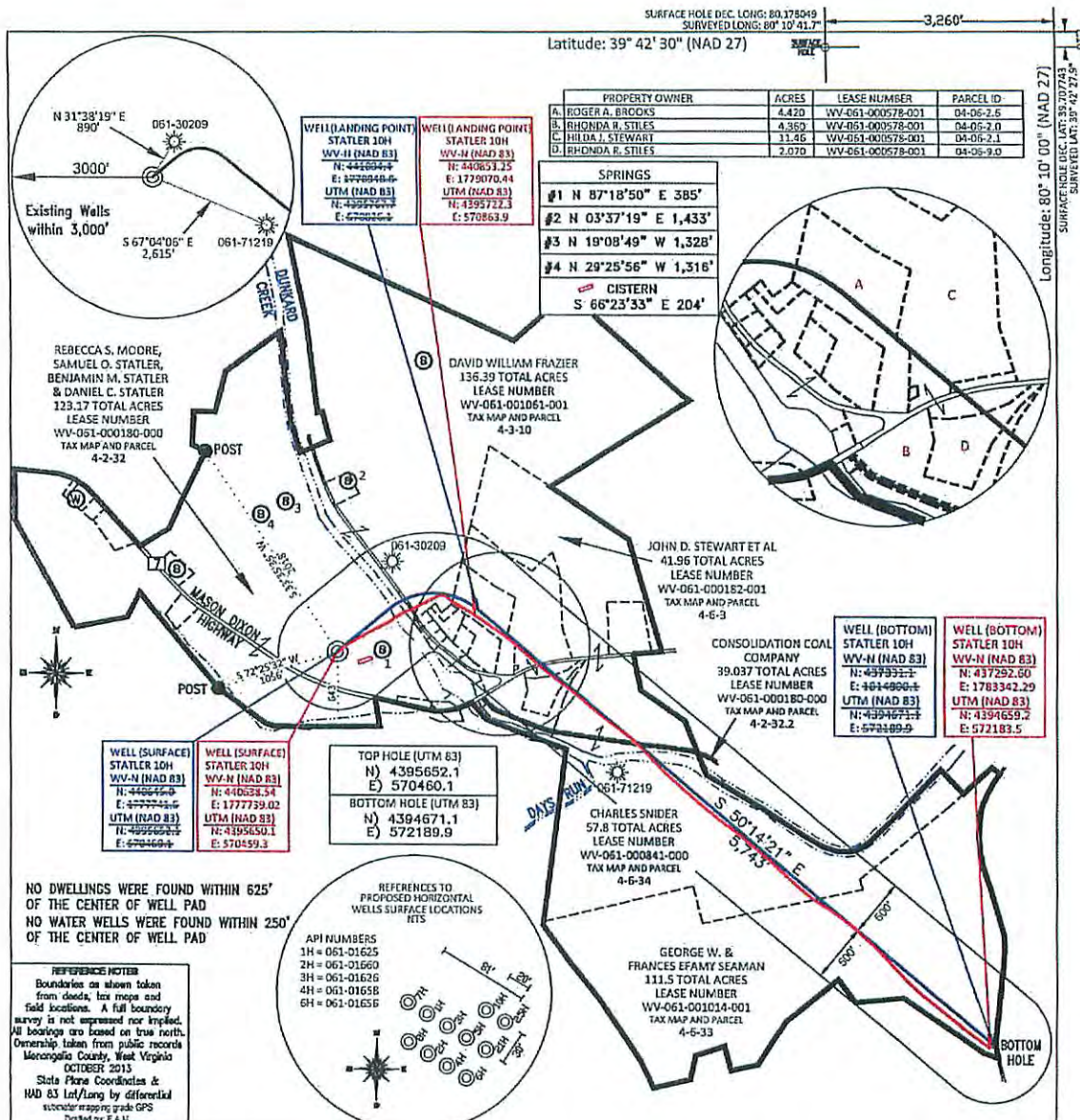
WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC DESIGNATED AGENT: JOHN ADAMS
ADDRESS: 707 VIRGINIA STREET SUITE 1200 ADDRESS: 707 VIRGINIA STREET SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

DATE: DECEMBER 18, 2015

OPERATOR'S WELL #: STATLER NO. 10H AS-DRILLED

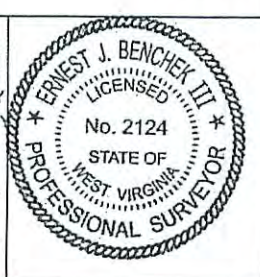
API WELL #: 47 61
STATE COUNTY PERMIT

03/11/2016



FILE #: NNE007
 DRAWING #: 12452
 SCALE: PLAT = (1"=1200')
 TICK MARK = (1"=2000')
 MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SOURCE SUBMETER MAPPING OF ELEVATION: 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: *[Signature]*
 L.I.S. #2124 : Ernest J. Benchek III



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304
 Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow
 WATERSHED: DUNKARD CREEK ASBUILT ELEVATION: 1,061'
 COUNTY/DISTRICT: MONONGALIA / CLAY QUADRANGLE: BLACKSVILLE, WV.
 SURFACE OWNER: REBECCA S. MOORE, SAMUEL O. STATLER, BENJAMIN M. STATLER & DANIEL C. STATLER ACREAGE: 123.17 +/-
 OIL & GAS ROYALTY OWNER: REBECCA S. MOORE, SAMUEL O. STATLER, BENJAMIN M. STATLER & DANIEL C. STATLER ACREAGE: 532.16 +/-
 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: 7,945.87' TMD: 13,830'
 WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC DESIGNATED AGENT: JOHN ADAMS
 ADDRESS: 707 VIRGINIA STREET SUITE 1200 ADDRESS: 707 VIRGINIA STREET SUITE 1200
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

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Customer NORTHEAST NATURAL ENERGY LLC				Job Number DCHA-00030						
Well Statler NO 10H 10h			Location (legal)			Schlumberger Location		Job Start Jun/17/2015		
Field Undesignat		Formation Name/Type		Deviation deg	Bit Size 17.5 in	Well MD 1027.0 ft		Well TVD 1027.0 ft		
County Monongalia		State/Province West Virginia		BHP 830 psi	BHST 72 degF	BHCT 75 degF	Pore Press. Gradient lb/gal			
Well Master 0631627544		API/UWI 4706101698H000								
Rig Name	Drilled For Gas		Service Via Land		Casing/Liner					
					Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
Offshore Zone	Well Class New		Well Type Development		1027.0	13.4	54.5			
					50.0	20.0	94.0			
Drilling Fluid Type		Max. Density lb/gal	Plastic Viscosity cP		Tubing/Drill Pipe					
					T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Service Line Cementing		Job Type 13 3/8" Surface								
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection Single Cement head		Perforations/Open Hole				
						Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval ft
						ft	ft			
						ft	ft			Diameter in
						ft	ft			
Service Instructions Ptest 3500psi Top 1000psi 135bbl Water 25bbl gel+flake 10bbl water 189bbl cement @ 15.6ppg (884sks, 1.2ft3/sk, 5.251gps, 2% S001, 0.2% D046, 0.13lb/sk D130 Drop top plug						Treat Down Casing	Displacement bbl	Packer Type	Packer Depth ft	
						Tubing Vol. bbl	Casing Vol. bbl	Annular Vol. bbl	Openhole Vol. bbl	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>		Casing Tools			Squeeze Job			
Lift Pressure psi		Shoe Type Float		Squeeze Type						
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1027.0 ft			Tool Type			
No. Centralizers		Top Plugs 1	Bottom Plugs		Stage Tool Type			Tool Depth ft		
Cement Head Type Single		Stage Tool Depth ft			Tail Pipe Size in					
Job Scheduled For Jun/17/2015 20:00		Arrived on Location Jun/17/2015 20:00		Leave Location Jun/18/2015 01:00		Collar Type Float			Tail Pipe Depth ft	
						Collar Depth 981.8 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		
06/17/2015	10:14:49	1	0.0	8.35	0.0	0.0	0.0	Started Acquisition		
06/17/2015	10:15:34	1	0.0	8.35	0.0	0.0	0.0			
06/17/2015	10:21:40	10	0.0	8.34	0.0	0.0	0.0	Start Job		
06/17/2015	10:22:19	7	0.3	8.34	0.0	0.0	0.0			
06/17/2015	10:23:04	56	1.0	8.34	1.6	0.0	1.6			
06/17/2015	10:23:49	58	3.9	8.34	4.4	0.0	4.4			
06/17/2015	10:24:34	74	0.0	8.34	6.1	0.0	6.1			
06/17/2015	10:25:19	1897	0.0	8.34	6.1	0.0	6.1			
06/17/2015	10:26:04	1569	0.0	8.34	6.1	0.0	6.1			
06/17/2015	10:26:49	1355	0.0	8.34	6.1	0.0	6.1			
06/17/2015	10:27:34	1323	0.0	8.34	6.1	0.0	6.1			
06/17/2015	10:28:19	3177	0.0	8.34	6.1	0.0	6.1			
06/17/2015	10:29:04	3127	0.0	8.34	6.1	0.0	6.1			
06/17/2015	10:29:31	3028	0.0	8.34	6.1	0.0	6.1	Pressure Test Lines		
06/17/2015	10:29:35	3020	0.0	8.34	6.1	0.0	6.1	Reset Total, Vol = 6.11 bbl		
06/17/2015	10:29:49	5	0.0	8.34	0.0	0.0	6.1			
06/17/2015	10:29:51	3	0.0	8.34	0.0	0.0	6.1	Start Pumping Water		
06/17/2015	10:30:34	10	0.0	7.97	0.0	0.0	6.1			
06/17/2015	10:31:19	107	5.0	8.99	1.7	0.0	7.8			
06/17/2015	10:32:04	160	6.9	8.97	6.4	0.0	12.5			
06/17/2015	10:32:49	145	6.9	8.67	11.6	0.0	17.7			

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Well			Field			Job Start		Customer		Job Number	
Statler NO 10H 10h			Undesignat			Jun/17/2015		NORTHEAST NATURAL ENERGY LLC		DCHA-00030	
Date	Time 24-hr clock	Treating Pressure PST	Flow Rate B/M	Density LB/G	Stage Volume BBL	Displacement Volume BBL	Total Slurry Volume BBL	Message			
06/17/2015	10:34:19	128	6.9	8.48	22.0	0.0	28.1				
06/17/2015	10:35:04	121	6.9	8.40	27.2	0.0	33.3				
06/17/2015	10:35:49	121	6.9	8.39	32.4	0.0	38.5				
06/17/2015	10:36:34	122	6.9	8.41	37.6	0.0	43.7				
06/17/2015	10:37:19	127	6.9	8.44	42.8	0.0	48.9				
06/17/2015	10:38:04	121	6.9	8.40	48.0	0.0	54.1				
06/17/2015	10:38:49	117	6.9	8.38	53.2	0.0	59.3				
06/17/2015	10:39:34	118	6.9	8.38	58.4	0.0	64.5				
06/17/2015	10:40:19	117	6.9	8.37	63.6	0.0	69.7				
06/17/2015	10:41:04	121	6.9	8.38	68.8	0.0	75.0				
06/17/2015	10:41:49	123	6.9	8.41	74.1	0.0	80.2				
06/17/2015	10:42:34	113	6.9	8.37	79.3	0.0	85.4				
06/17/2015	10:43:19	109	6.9	8.37	84.5	0.0	90.6				
06/17/2015	10:44:04	106	6.9	8.37	89.7	0.0	95.8				
06/17/2015	10:44:49	108	7.0	8.36	94.9	0.0	101.0				
06/17/2015	10:45:34	111	6.9	8.37	100.1	0.0	106.2				
06/17/2015	10:46:19	107	6.9	8.36	105.3	0.0	111.4				
06/17/2015	10:47:04	109	6.9	8.37	110.5	0.0	116.6				
06/17/2015	10:47:49	110	6.9	8.36	115.7	0.0	121.9				
06/17/2015	10:48:34	107	6.9	8.37	121.0	0.0	127.1				
06/17/2015	10:49:19	107	6.9	8.36	126.2	0.0	132.3				
06/17/2015	10:50:04	124	6.9	8.34	131.4	0.0	137.5				
06/17/2015	10:50:49	1	0.0	8.35	135.5	0.0	141.6				
06/17/2015	10:51:28	-0	0.0	8.34	135.5	0.0	141.6	End Water			
06/17/2015	10:51:29	-0	0.0	8.34	135.5	0.0	141.6	Reset Total, Vol = 135.47 bbl			
06/17/2015	10:51:30	-0	0.0	8.34	0.0	0.0	141.6	Start Pumping Spacer			
06/17/2015	10:51:34	2	0.0	8.35	0.0	0.0	141.6				
06/17/2015	10:52:19	1	0.0	8.34	0.0	0.0	141.6				
06/17/2015	10:53:04	66	3.9	8.48	2.4	0.0	144.0				
06/17/2015	10:53:49	112	5.2	8.59	5.7	0.0	147.3				
06/17/2015	10:54:34	121	5.6	8.45	9.6	0.0	151.2				
06/17/2015	10:55:19	123	5.6	8.57	13.9	0.0	155.4				
06/17/2015	10:56:04	118	5.9	8.31	18.0	0.0	159.6				
06/17/2015	10:56:49	118	5.6	8.46	22.3	0.0	163.9				
06/17/2015	10:57:16	115	5.6	8.36	24.8	0.0	166.4	End Spacer			
06/17/2015	10:57:18	114	5.6	8.36	0.2	0.0	166.6	Start Pumping Water			
06/17/2015	10:57:34	109	5.7	8.26	1.7	0.0	168.1				
06/17/2015	10:58:19	91	5.3	8.28	5.8	0.0	172.2				
06/17/2015	10:59:04	121	5.8	7.52	9.7	0.0	176.1				
06/17/2015	10:59:10	20	1.8	7.82	10.2	0.0	176.6	End Water			
06/17/2015	10:59:11	20	0.9	7.85	10.2	0.0	176.6	Reset Total, Vol = 10.19 bbl			
06/17/2015	10:59:49	9	0.0	8.32	0.0	0.0	176.6				
06/17/2015	11:00:34	8	0.0	8.34	0.4	0.0	177.0				
06/17/2015	11:01:19	7	0.0	8.34	0.4	0.0	177.0				
06/17/2015	11:02:04	7	0.0	8.34	0.4	0.0	177.0				
06/17/2015	11:02:49	7	0.0	8.32	0.4	0.0	177.0				
06/17/2015	11:03:34	7	0.0	8.32	0.4	0.0	177.0				
06/17/2015	11:04:19	11	0.0	8.32	0.4	0.0	177.0				
06/17/2015	11:05:04	14	0.0	8.32	0.4	0.0	177.0				
06/17/2015	11:05:49	171	4.6	15.16	1.9	0.0	178.5				
06/17/2015	11:06:34	159	4.6	15.01	5.3	0.0	181.9				
06/17/2015	11:07:19	241	5.8	15.48	8.8	0.0	185.4				
06/17/2015	11:08:04	257	6.1	15.58	13.3	0.0	189.9				
06/17/2015	11:08:49	285	5.8	15.59	17.8	0.0	194.4				

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Well			Field			Job Start		Customer		Job Number
Statler NO 10H 10h			Undesignat			Jun/17/2015		NORTHEAST NATURAL ENERGY LLC		DCHA-00030
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		
06/17/2015	11:10:19	254	6.0	15.70	26.9	0.0	203.5			
06/17/2015	11:11:04	251	6.0	15.73	31.4	0.0	208.0			
06/17/2015	11:11:49	260	6.0	15.74	35.9	0.0	212.5			
06/17/2015	11:12:34	252	6.0	15.75	40.4	0.0	217.0			
06/17/2015	11:13:19	255	6.0	15.74	44.9	0.0	221.5			
06/17/2015	11:14:04	262	6.0	15.77	49.5	0.0	226.0			
06/17/2015	11:14:49	254	6.0	15.75	54.0	0.0	230.6			
06/17/2015	11:15:34	245	6.0	15.73	58.5	0.0	235.1			
06/17/2015	11:16:19	247	6.0	15.72	63.0	0.0	239.6			
06/17/2015	11:17:04	243	6.1	15.72	67.6	0.0	244.2			
06/17/2015	11:17:49	246	6.1	15.72	72.1	0.0	248.7			
06/17/2015	11:18:34	259	6.1	15.69	76.6	0.0	253.2			
06/17/2015	11:19:19	266	6.1	15.70	81.2	0.0	257.8			
06/17/2015	11:20:04	269	6.1	15.70	85.7	0.0	262.3			
06/17/2015	11:20:49	250	6.0	15.70	90.3	0.0	266.8			
06/17/2015	11:20:50	252	6.1	15.70	90.4	0.0	266.9	Start Cement Slurry		
06/17/2015	11:20:51	249	6.1	15.70	90.5	0.0	267.0	Start Mixing Tail Slurry		
06/17/2015	11:21:34	234	6.1	15.71	94.8	0.0	271.4			
06/17/2015	11:22:19	247	6.1	15.71	99.3	0.0	275.9			
06/17/2015	11:23:04	236	6.1	15.73	103.9	0.0	280.5			
06/17/2015	11:23:49	262	6.0	15.73	108.4	0.0	285.0			
06/17/2015	11:24:34	238	6.0	15.73	112.9	0.0	289.5			
06/17/2015	11:25:19	238	6.1	15.73	117.5	0.0	294.0			
06/17/2015	11:26:04	245	6.1	15.72	122.0	0.0	298.6			
06/17/2015	11:26:49	238	6.1	15.73	126.5	0.0	303.1			
06/17/2015	11:27:34	237	6.1	15.66	131.1	0.0	307.7			
06/17/2015	11:28:19	271	6.1	15.67	135.6	0.0	312.2			
06/17/2015	11:29:04	253	6.1	15.69	140.1	0.0	316.7			
06/17/2015	11:29:49	249	6.1	15.69	144.7	0.0	321.3			
06/17/2015	11:30:34	266	6.0	15.72	149.2	0.0	325.8			
06/17/2015	11:31:19	262	6.0	15.71	153.7	0.0	330.3			
06/17/2015	11:32:04	238	6.1	15.71	158.3	0.0	334.9			
06/17/2015	11:32:49	242	6.1	15.71	162.8	0.0	339.4			
06/17/2015	11:33:34	251	6.1	15.71	167.4	0.0	343.9			
06/17/2015	11:34:19	251	6.0	15.72	171.9	0.0	348.5			
06/17/2015	11:35:04	246	6.1	15.71	176.4	0.0	353.0			
06/17/2015	11:35:49	100	3.5	15.72	180.1	0.0	356.7			
06/17/2015	11:36:34	89	3.5	15.70	182.7	0.0	359.3			
06/17/2015	11:37:19	86	3.5	15.70	185.4	0.0	361.9			
06/17/2015	11:37:52	9	0.0	15.36	186.6	0.0	363.2	End Tail Slurry		
06/17/2015	11:37:53	9	0.0	15.35	186.6	0.0	363.2	End Cement Slurry		
06/17/2015	11:37:55	9	0.0	15.33	186.6	0.0	363.2	Reset Total, Vol = 186.59 bbl		
06/17/2015	11:38:00	9	0.0	15.32	0.0	0.0	363.2	Drop Top Plug		
06/17/2015	11:38:02	9	0.0	15.32	0.0	0.0	363.2	Start Displacement		
06/17/2015	11:38:04	9	0.0	15.32	0.0	0.0	363.2			
06/17/2015	11:38:49	8	0.0	15.32	0.0	0.0	363.2			
06/17/2015	11:39:34	16	0.0	15.32	0.0	0.0	363.2			
06/17/2015	11:40:19	90	1.6	11.57	0.1	0.1	363.3			
06/17/2015	11:41:04	68	3.9	9.58	2.9	2.8	366.0			
06/17/2015	11:41:49	135	6.6	9.35	6.7	6.6	369.9			
06/17/2015	11:42:34	126	6.6	8.94	11.6	11.5	374.8			
06/17/2015	11:43:19	110	6.6	8.71	16.6	16.5	379.7			
06/17/2015	11:44:04	109	6.6	8.62	21.5	21.4	384.7			
06/17/2015	11:44:49	107	6.6	8.51	26.5	26.3	389.6			

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Well Stattler NO 10H 10h			Field Undesignat			Job Start Jun/17/2015		Customer NORTHEAST NATURAL ENERGY LLC		Job Number DCHA-00030
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		
06/17/2015	11:46:19	101	6.5	8.38	36.3	36.2	399.4			
06/17/2015	11:47:49	112	6.5	8.31	46.1	46.0	409.3			
06/17/2015	11:48:34	124	6.5	8.33	51.0	50.9	414.2			
06/17/2015	11:49:19	145	6.5	8.31	55.9	55.8	419.1			
06/17/2015	11:50:04	152	6.5	8.34	60.8	60.7	423.9			
06/17/2015	11:50:49	200	6.5	8.31	65.7	65.5	428.8			
06/17/2015	11:51:34	182	6.4	8.34	70.5	70.4	433.7			
06/17/2015	11:52:19	219	6.5	8.25	75.3	75.2	438.5			
06/17/2015	11:53:04	271	6.5	8.30	80.2	80.1	443.4			
06/17/2015	11:53:49	294	6.5	8.24	85.0	84.9	448.2			
06/17/2015	11:54:34	295	6.4	8.30	89.9	89.7	453.0			
06/17/2015	11:55:19	316	6.4	8.27	94.7	94.6	457.8			
06/17/2015	11:56:04	337	6.3	8.34	99.4	99.3	462.5			
06/17/2015	11:56:49	335	6.3	8.34	104.1	104.0	467.3			
06/17/2015	11:57:34	284	4.4	8.34	108.1	108.0	471.2			
06/17/2015	11:58:19	337	4.3	8.34	111.4	111.3	474.6			
06/17/2015	11:59:04	296	2.9	8.34	114.0	114.0	477.2			
06/17/2015	11:59:49	316	3.0	8.34	116.3	116.2	479.4			
06/17/2015	12:00:34	320	3.0	8.34	118.5	118.5	481.7			
06/17/2015	12:01:19	346	3.0	8.34	120.7	120.7	483.9			
06/17/2015	12:02:04	320	3.0	8.34	123.0	122.9	486.1			
06/17/2015	12:02:49	372	3.0	8.34	125.2	125.2	488.4			
06/17/2015	12:03:34	367	3.0	8.34	127.5	127.4	490.6			
06/17/2015	12:04:19	367	3.0	8.34	129.7	129.6	492.9			
06/17/2015	12:05:04	361	3.0	8.34	131.9	131.9	495.1			
06/17/2015	12:05:49	404	3.0	8.34	134.2	134.1	497.3			
06/17/2015	12:06:34	360	3.0	8.34	136.4	136.4	499.6			
06/17/2015	12:07:19	405	3.0	8.34	138.6	138.6	501.8			
06/17/2015	12:08:04	390	3.0	8.34	140.9	140.8	504.0			
06/17/2015	12:08:49	408	3.0	8.34	143.1	143.1	506.3			
06/17/2015	12:09:34	421	3.0	8.34	145.3	145.3	508.5			
06/17/2015	12:10:19	425	3.0	8.34	147.6	147.5	510.7			
06/17/2015	12:11:04	395	3.0	8.34	149.8	149.8	513.0			
06/17/2015	12:11:49	931	0.0	8.34	151.6	151.6	514.8			
06/17/2015	12:12:34	924	0.0	8.34	151.6	151.6	514.8			
06/17/2015	12:13:19	922	0.0	8.34	151.6	151.6	514.8			
06/17/2015	12:13:53	920	0.0	8.34	151.6	151.6	514.8	Bump Top Plug		
06/17/2015	12:13:54	921	0.0	8.34	151.6	151.6	514.8	Reset Total, Vol = 151.61 bbl		
06/17/2015	12:14:04	920	0.0	8.34	0.0	151.6	514.8			
06/17/2015	12:14:49	918	0.0	8.34	0.0	151.6	514.8			
06/17/2015	12:15:34	916	0.0	8.34	0.0	151.6	514.8			
06/17/2015	12:16:19	915	0.0	8.34	0.0	151.6	514.8			
06/17/2015	12:17:04	913	0.0	8.34	0.0	151.6	514.8			
06/17/2015	12:17:49	912	0.0	8.34	0.0	151.6	514.8			
06/17/2015	12:18:34	-11	0.0	8.34	0.0	151.6	514.8			
06/17/2015	12:19:19	-10	0.0	8.34	0.0	151.6	514.8			
06/17/2015	12:20:04	-10	0.0	8.34	0.0	151.6	514.8			
06/17/2015	12:20:24	-10	0.0	8.34	0.0	151.6	514.8	floats held, 0.75bbl return		
06/17/2015	12:20:28	-10	0.0	8.34	0.0	151.6	514.8	wash up pump		

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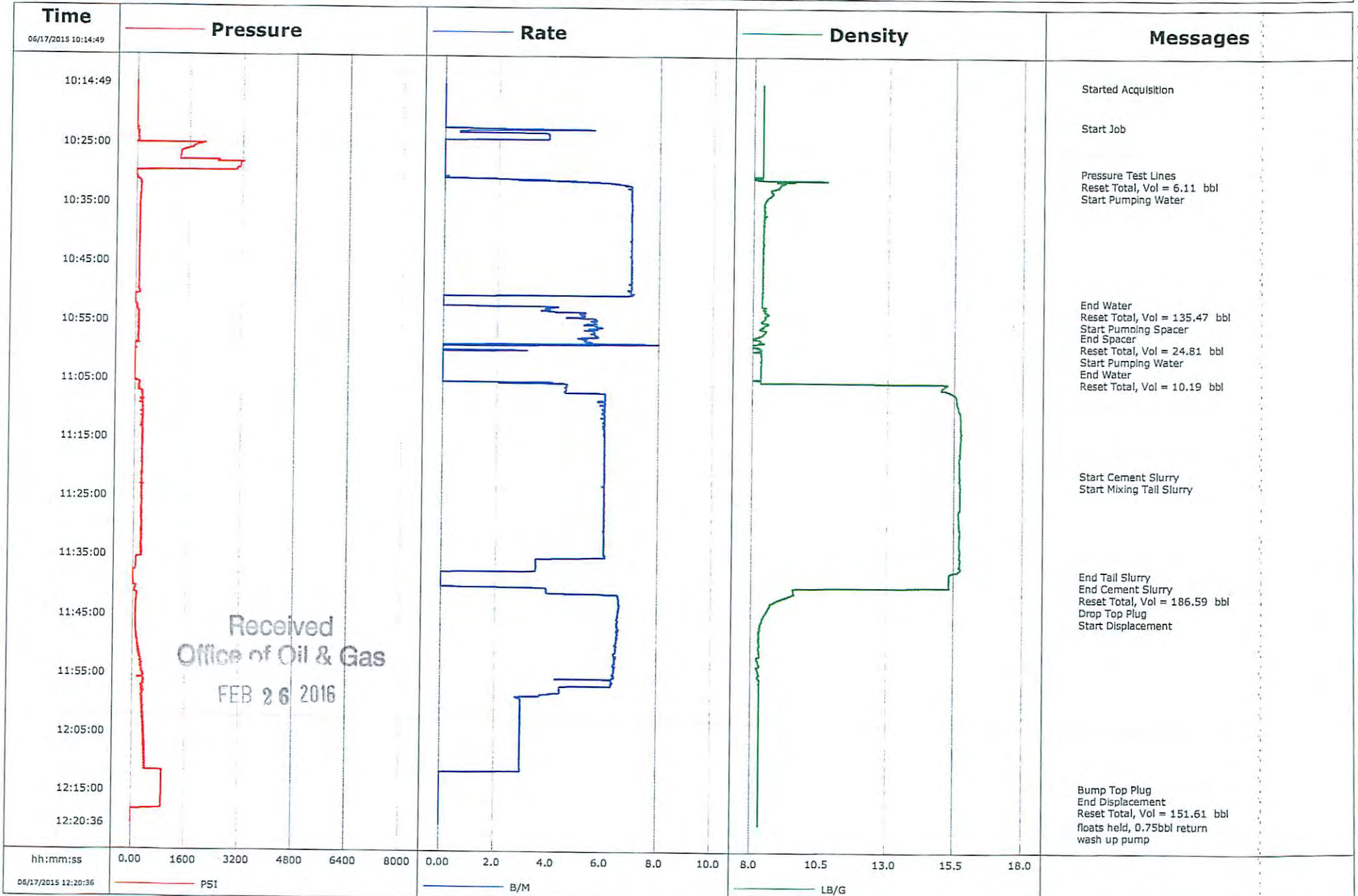
Well Statler NO 10H 10h	Field Undesignat	Job Start Jun/17/2015	Customer NORTHEAST NATURAL ENERGY LLC	Job Number DCHA-00030
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Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
5.5			8.0	514.8	0.0	166.3	
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
3219	-10	287				bbl	lb/gal
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume	45.0 bbl
%	0.0 bbl	151.6 bbl	69 degF	Washed Thru Perfs	<input type="checkbox"/>	To	ft
Customer or Authorized Representative	Schlumberger Supervisor			Circulation Lost	<input type="checkbox"/>	Job Completed	<input checked="" type="checkbox"/>
Jim Cover	TJ Williams			-		-	

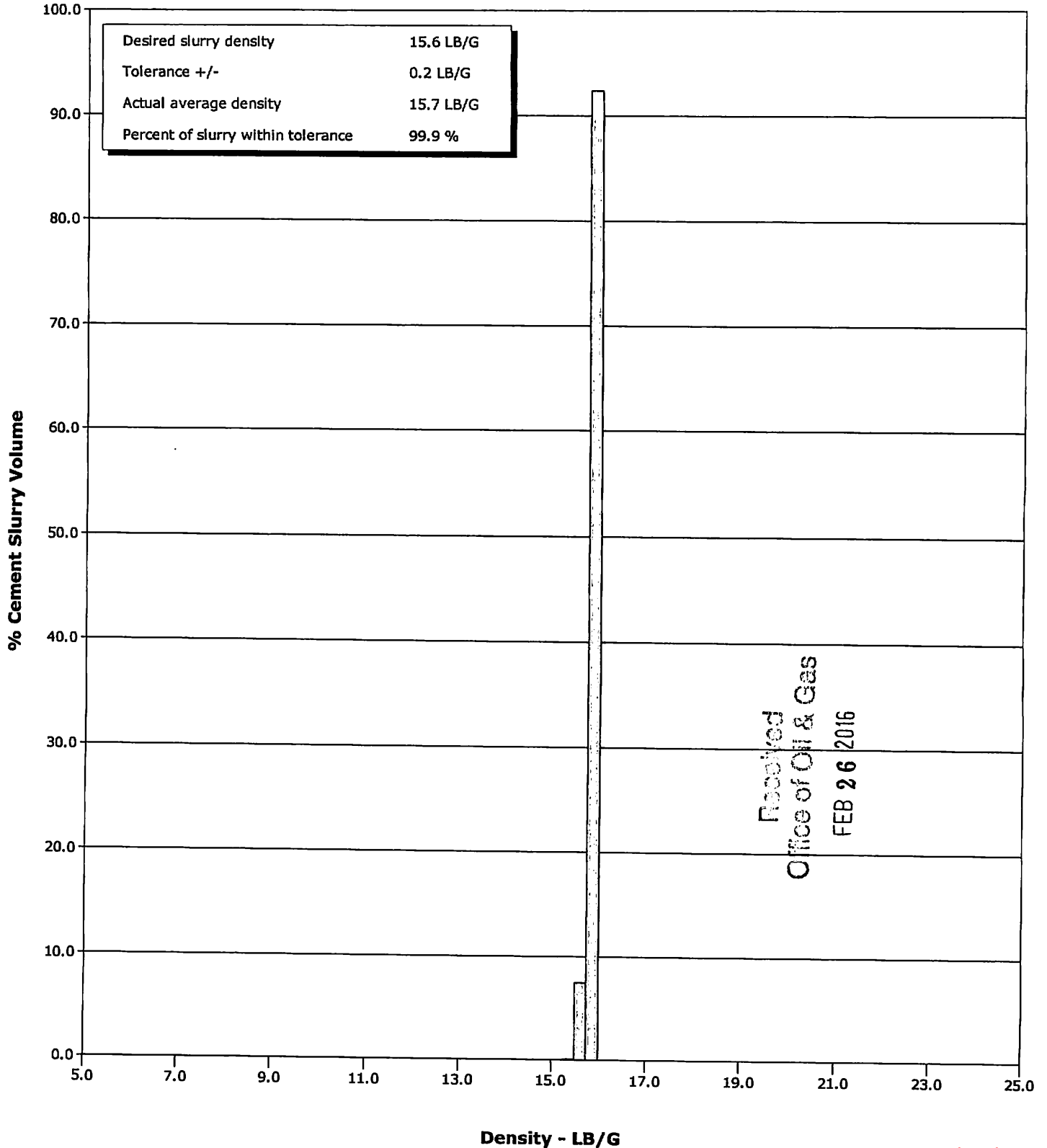
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Well	Statler NO 10H	Client	NORTHEAST NATURAL ENERGY LLC
Field	Undesignat	SIR No.	DCHA-00030
Engineer	TJ Williams	Job Type	13 3/8" Surface
Country	United States	Job Date	06-17-2015



Well	Statler NO 10H	Client	NORTHEAST NATURAL ENERGY LLC
Field	Undesignat	SIR No.	DCHA-00030
Engineer	TJ Williams	Job Type	13 3/8" Surface
Country	United States	Job Date	06-17-2015

Cement Slurry - 06/17/2015 11:20:50 to 06/17/2015 11:37:53



				Customer Northeast Natural Energy LLC				Job Number C4C6-00127																											
Well Statler 10H 10H				Location (legal)				Schlumberger Location				Job Start Jun/20/2015																							
Field				Formation Name/Type Clean-Sandstone				Deviation 0 deg				Bit Size 12.3 in				Well MD 2264.0 ft				Well TVD 2264.0 ft															
County Monongalia				State/Province West Virginia				BHP 1917 psi				BHST 85 degF				BHCT 78 degF				Pore Press. Gradient lb/gal															
Well Master 631627544				API/UWI 47-061-01698																															
Rig Name US Energy 9				Drilled For Gas				Service Via Land				Casing/Liner																							
								Depth, ft				Size, in				Weight, lb/ft				Grade				Thread											
Offshore Zone				Well Class New				Well Type Development				1000.0				13.4				54.5															
								2231.0				9.6				40.0				J55															
Drilling Fluid Type				Max. Density lb/gal				Plastic Viscosity cP				Tubing/Drill Pipe																							
												T/D				Depth, ft				Size, in				Weight, lb/ft				Grade				Thread			
Service Line Cementing				Job Type 9 5/8" Intermediate																															
Max. Allowed Tub. Press psi				Max. Allowed Ann. Press psi				WH Connection Single Cement head				Perforations/Open Hole																							
												Top, ft				Bottom, ft				shot/ft				No. of Shots				Total Interval ft							
Service Instructions 9 5/8" Intermediate 25bbl Gel spacer with D130 10bbl Water behind 165bbl Tail @ 15.6 (D901 Class A 774sk, 1.20cuft/sk, 5.252gps, D046 0.2%, S001 2%, D130 0.13%) Shut down / Drop top plug 165bbl Displacement by the tanks												ft				ft												ft							
												ft				ft												Diameter in							
												Treat Down Casing				Displacement 165.0 bbl				Packer Type				Packer Depth ft											
												Tubing Vol. bbl				Casing Vol. bbl				Annular Vol. bbl				Openhole Vol. bbl											
Casing/Tubing Secured <input checked="" type="checkbox"/>				1 Hole Vol. Circulated prior to Cement <input type="checkbox"/>				Casing Tools				Squeeze Job																							
Lift Pressure psi								Shoe Type Float				Squeeze Type																							
Pipe Rotated <input type="checkbox"/>				Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 2231.0 ft				Tool Type																							
No. Centralizers 18				Top Plugs 1				Bottom Plugs				Stage Tool Type				Tool Depth ft																			
Cement Head Type Single								Stage Tool Depth ft				Tail Pipe Size in																							
Job Scheduled For Jun/20/2015 15:00				Arrived on Location Jun/20/2015 15:00				Leave Location Jun/21/2015 01:00				Collar Type Float				Tail Pipe Depth ft																			
												Collar Depth 2187.0 ft				Sqz. Total Vol. bbl																			
Date	Time 24-hr clock	CPF1_PRESS PSI	CPF1_DENS LB/G	DOWNHOLE_CPF1_TTL_STAGE B/M	CMT_DISP_VCCPF1_TTL_VOLUME BBL					Message																									
06/20/2015	22:29:26	2	8.36	0.0	0.0	0.0	0.0	0.0	0.0	Started Acquisition																									
06/20/2015	22:29:27	2	8.36	0.0	0.0	0.0	0.0	0.0	0.0	Start Job																									
06/20/2015	22:30:11	3	8.36	0.0	0.0	0.0	0.0	0.0	0.0																										
06/20/2015	22:30:56	2	8.36	0.0	0.0	0.0	0.0	0.0	0.0																										
06/20/2015	22:31:41	3	8.36	0.0	0.0	0.0	0.0	0.0	0.0																										
06/20/2015	22:32:26	3	8.36	0.0	0.0	0.0	0.0	0.0	0.0																										
06/20/2015	22:33:11	-1	8.36	0.0	0.0	0.0	0.0	0.0	0.0																										
06/20/2015	22:33:56	-0	8.36	0.0	0.0	0.0	0.0	0.0	0.0																										
06/20/2015	22:34:41	60	8.37	4.4	2.1	0.0	2.1	0.0	2.1																										
06/20/2015	22:35:26	57	8.37	4.5	5.5	0.0	5.5	0.0	5.5																										
06/20/2015	22:36:11	48	8.49	3.9	8.9	0.0	8.9	0.0	8.9																										
06/20/2015	22:36:56	-0	8.37	0.0	0.1	0.0	0.1	0.0	10.1																										
06/20/2015	22:37:41	604	8.41	0.0	0.2	0.0	0.2	0.0	10.2																										
06/20/2015	22:38:26	557	8.41	0.0	0.2	0.0	0.2	0.0	10.2																										
06/20/2015	22:39:11	2963	8.38	0.0	0.2	0.0	0.2	0.0	10.2																										
06/20/2015	22:39:56	2877	8.37	0.0	0.2	0.0	0.2	0.0	10.2																										
06/20/2015	22:40:01	2868	8.37	0.0	0.2	0.0	0.2	0.0	10.2	Water temp 70F, Bulk temp 71F																									
06/20/2015	22:40:02	2866	8.37	0.0	0.2	0.0	0.2	0.0	10.2	Slurry temp 84F																									
06/20/2015	22:40:41	2808	8.37	0.0	0.2	0.0	0.2	0.0	10.2																										
06/20/2015	22:41:26	2756	8.37	0.0	0.2	0.0	0.2	0.0	10.2																										
06/20/2015	22:42:11	2711	8.35	0.0	0.2	0.0	0.2	0.0	10.2																										

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Well		Field				Job Start	Customer	Job Number
Statler 10H 10H						Jun/20/2015	Northeast Natural Energy LLC	C4C6-00127
Date	Time 24-hr clock	CPF1_PRESS PSI	CPF1_DENS/CPF1_LB/G	DOWNHOLE_CPF1_B/M	CPF1_TTL_STAGE BBL	CMT_DISP_VCCPF1_BBL	CPF1_TTL_VOLUME BBL	Message
06/20/2015	22:43:41	2648	8.37	0.0	0.2	0.0	10.2	
06/20/2015	22:44:04	2632	8.37	0.0	0.2	0.0	10.2	Pressure Test Lines
06/20/2015	22:44:11	2628	8.37	0.0	0.2	0.0	10.2	Reset Total, Vol = 10.23 bbl
06/20/2015	22:44:26	712	8.37	0.0	0.2	0.0	10.2	
06/20/2015	22:45:11	7	8.36	0.0	0.2	0.0	10.2	
06/20/2015	22:45:56	7	8.36	0.0	0.2	0.0	10.2	
06/20/2015	22:46:41	7	8.37	0.0	0.2	0.0	10.2	
06/20/2015	22:47:26	7	8.37	0.0	0.2	0.0	10.2	
06/20/2015	22:48:11	6	8.37	0.0	0.2	0.0	10.2	
06/20/2015	22:48:37	32	8.54	2.1	0.1	0.0	10.3	Start Pumping Spacer
06/20/2015	22:48:56	78	8.58	4.7	1.4	0.0	11.6	
06/20/2015	22:49:41	73	8.61	4.7	4.9	0.0	15.1	
06/20/2015	22:50:26	72	8.63	4.7	8.4	0.0	18.7	
06/20/2015	22:51:11	64	8.55	4.7	12.0	0.0	22.2	
06/20/2015	22:51:56	41	8.52	3.8	15.2	0.0	25.5	
06/20/2015	22:52:41	45	8.55	3.9	18.1	0.0	28.3	
06/20/2015	22:53:26	61	8.58	4.7	21.1	0.0	31.3	
06/20/2015	22:54:11	62	8.57	4.7	24.6	0.0	34.9	
06/20/2015	22:54:12	62	8.57	4.7	24.7	0.0	34.9	End Spacer
06/20/2015	22:54:15	62	8.57	4.7	0.0	0.0	35.2	Reset Total, Vol = 25.01 bbl
06/20/2015	22:54:19	62	8.57	4.7	0.3	0.0	35.5	Start Pumping Water
06/20/2015	22:54:56	61	8.38	4.9	3.2	0.0	38.4	
06/20/2015	22:55:41	60	8.37	4.9	6.9	0.0	42.1	
06/20/2015	22:56:18	6	8.32	4.3	10.0	0.0	45.1	End Water
06/20/2015	22:56:22	3	8.16	1.0	10.2	0.0	45.3	Reset Total, Vol = 10.12 bbl
06/20/2015	22:56:26	4	8.34	0.0	10.2	0.0	45.4	
06/20/2015	22:57:11	8	8.37	0.0	0.0	0.0	45.4	
06/20/2015	22:57:56	10	8.36	0.0	0.0	0.0	45.4	
06/20/2015	22:58:41	10	8.36	0.0	0.0	0.0	45.4	
06/20/2015	22:59:26	28	8.37	0.6	0.0	0.0	45.4	
06/20/2015	22:59:43	213	15.39	6.7	1.4	0.0	46.8	Start Cement Slurry
06/20/2015	22:59:44	213	15.36	6.7	1.5	0.0	46.9	Start Mixing Tail Slurry
06/20/2015	23:00:00	214	14.98	6.7	3.3	0.0	48.7	2CTF34064
06/20/2015	23:00:11	207	14.87	6.7	4.6	0.0	49.9	
06/20/2015	23:00:56	228	15.58	6.7	9.6	0.0	55.0	
06/20/2015	23:01:41	226	15.73	6.7	14.6	0.0	60.0	
06/20/2015	23:02:26	133	15.74	4.8	19.2	0.0	64.6	
06/20/2015	23:03:11	132	15.75	4.8	22.8	0.0	68.2	
06/20/2015	23:03:56	131	15.69	4.8	26.4	0.0	71.8	
06/20/2015	23:04:41	130	15.75	4.8	30.0	0.0	75.4	
06/20/2015	23:05:07	128	15.88	4.8	32.1	0.0	77.5	Dry Sample
06/20/2015	23:05:26	126	15.70	4.8	33.6	0.0	79.0	
06/20/2015	23:06:11	125	15.67	4.8	37.2	0.0	82.6	
06/20/2015	23:06:56	138	15.83	4.8	40.8	0.0	86.2	
06/20/2015	23:07:41	122	15.61	4.8	44.4	0.0	89.8	
06/20/2015	23:08:26	131	15.54	4.8	48.0	0.0	93.4	
06/20/2015	23:09:11	134	15.61	4.8	51.5	0.0	96.9	
06/20/2015	23:09:56	122	15.45	4.7	55.1	0.0	100.5	
06/20/2015	23:10:41	134	15.55	4.7	58.7	0.0	104.1	
06/20/2015	23:11:26	138	15.55	4.7	62.2	0.0	107.6	
06/20/2015	23:12:11	140	15.54	4.7	65.7	0.0	111.1	
06/20/2015	23:12:54	134	15.35	4.8	69.1	0.0	114.5	2CSS54781
06/20/2015	23:12:56	134	15.37	4.8	69.3	0.0	114.7	
06/20/2015	23:13:41	133	15.48	4.8	72.9	0.0	118.3	

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Well		Field				Job Start	Customer	Job Number
Statler 10H 10H						Jun/20/2015	Northeast Natural Energy LLC	C4C6-00127
Date	Time 24-hr clock	CPF1_PRESS PSI	CPF1_DENS/CPF1_LB/G	DOWNHOLE_CPF1_B/M	CPF1_TTL_STAGE_BBL	CMT_DISP_VCC/CPF1_BBL	CPF1_TTL_VOLUME_BBL	Message
06/20/2015	23:14:26	139	15.56	4.8	76.4	0.0	121.8	
06/20/2015	23:15:11	151	15.74	4.8	80.0	0.0	125.4	
06/20/2015	23:15:56	147	15.68	4.8	83.6	0.0	129.0	
06/20/2015	23:16:41	134	15.66	4.8	87.2	0.0	132.6	
06/20/2015	23:17:26	134	15.73	4.8	90.8	0.0	136.1	
06/20/2015	23:18:11	132	15.70	4.8	94.3	0.0	139.7	
06/20/2015	23:18:56	137	15.67	4.7	97.9	0.0	143.3	
06/20/2015	23:19:41	139	15.61	4.7	101.4	0.0	146.8	
06/20/2015	23:20:26	142	15.62	4.7	104.9	0.0	150.3	
06/20/2015	23:21:11	140	15.66	4.7	108.4	0.0	153.8	
06/20/2015	23:21:56	137	15.70	4.7	112.0	0.0	157.3	
06/20/2015	23:22:41	148	15.68	4.7	115.5	0.0	160.9	
06/20/2015	23:23:26	154	15.67	4.7	119.0	0.0	164.4	
06/20/2015	23:24:11	147	15.69	4.7	122.5	0.0	167.9	
06/20/2015	23:24:56	137	15.69	4.7	126.0	0.0	171.4	
06/20/2015	23:25:41	151	15.73	4.7	129.5	0.0	174.9	
06/20/2015	23:26:26	147	15.75	4.7	133.1	0.0	178.4	
06/20/2015	23:27:11	146	15.73	4.7	136.6	0.0	182.0	
06/20/2015	23:27:56	140	15.73	4.7	140.1	0.0	185.5	
06/20/2015	23:28:41	138	15.73	4.7	143.6	0.0	189.0	
06/20/2015	23:29:26	147	15.74	4.7	147.1	0.0	192.5	
06/20/2015	23:30:11	160	15.71	4.7	150.6	0.0	196.0	
06/20/2015	23:30:56	149	15.70	4.7	154.2	0.0	199.5	
06/20/2015	23:31:41	147	15.70	4.7	157.7	0.0	203.1	
06/20/2015	23:32:26	146	15.70	4.8	161.2	0.0	206.6	
06/20/2015	23:33:11	163	15.86	4.8	164.8	0.0	210.2	
06/20/2015	23:33:50	64	15.88	4.4	167.9	0.0	213.3	End Tail Slurry
06/20/2015	23:33:53	35	15.91	2.5	168.1	0.0	213.5	Reset Total, Vol = 168.19 bbl
06/20/2015	23:33:56	34	15.99	0.5	168.2	0.0	213.6	End Cement Slurry
06/20/2015	23:34:30	38	15.99	0.0	0.0	0.0	213.6	Drop Top Plug
06/20/2015	23:34:41	37	15.98	0.0	0.0	0.0	213.6	
06/20/2015	23:35:26	37	15.98	0.0	0.0	0.0	213.6	
06/20/2015	23:36:02	82	13.64	2.6	0.5	0.5	214.1	Start Displacement
06/20/2015	23:36:11	89	9.88	3.3	0.9	0.9	214.6	
06/20/2015	23:36:56	78	9.08	4.9	4.4	4.4	218.1	
06/20/2015	23:37:41	101	8.89	6.8	9.1	9.1	222.7	
06/20/2015	23:38:26	82	7.63	7.5	14.1	14.1	227.7	
06/20/2015	23:39:11	92	8.13	6.9	19.3	19.3	232.9	
06/20/2015	23:39:56	92	8.33	6.7	24.3	24.3	237.9	
06/20/2015	23:40:41	95	8.32	6.7	29.3	29.3	242.9	
06/20/2015	23:41:26	86	8.37	6.6	34.3	34.3	247.9	
06/20/2015	23:42:11	87	8.28	6.6	39.3	39.3	252.9	
06/20/2015	23:42:56	86	8.30	6.7	44.3	44.3	257.9	
06/20/2015	23:43:41	86	8.34	6.6	49.2	49.2	262.9	
06/20/2015	23:44:26	87	8.31	6.6	54.2	54.2	267.9	
06/20/2015	23:45:11	90	8.26	6.7	59.3	59.3	272.9	
06/20/2015	23:45:56	103	8.30	6.6	64.3	64.3	277.9	
06/20/2015	23:46:41	145	8.37	6.7	69.2	69.2	282.9	
06/20/2015	23:47:26	164	8.37	6.6	74.2	74.2	287.8	
06/20/2015	23:48:11	189	8.32	6.7	79.2	79.2	292.8	
06/20/2015	23:48:56	203	8.37	6.6	84.2	84.2	297.8	
06/20/2015	23:49:41	284	8.37	6.6	89.1	89.1	302.7	
06/20/2015	23:50:26	309	8.37	6.6	94.0	94.0	307.6	
06/20/2015	23:51:11	303	8.37	6.5	98.9	98.9	312.6	

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Well		Field		Job Start		Customer		Job Number	
Statler 10H 10H				Jun/20/2015		Northeast Natural Energy LLC		C4C6-00127	
Date	Time 24-hr clock	CPF1_PRESS PSI	CPF1_DENS:CPF1 LB/G	DOWNHOLE_CPF1_TTL_STAGE B/M	CMT_DISP_VCCPF1_BBL	CPF1_TTL_VOLUME BBL	Message		
06/20/2015	23:52:41	444	8.37	6.5	108.8	108.8	322.4		
06/20/2015	23:53:26	510	8.37	6.5	113.7	113.7	327.3		
06/20/2015	23:54:11	525	8.37	6.5	118.5	118.5	332.2		
06/20/2015	23:54:56	575	8.37	6.5	123.4	123.4	337.1		
06/20/2015	23:55:41	618	8.37	6.5	128.3	128.3	341.9		
06/20/2015	23:56:26	691	8.37	6.5	133.2	133.2	346.8		
06/20/2015	23:57:11	768	8.37	6.5	138.1	138.1	351.7		
06/20/2015	23:57:56	793	8.37	6.5	142.9	142.9	356.5		
06/20/2015	23:58:41	872	8.37	6.5	147.8	147.8	361.4		
06/20/2015	23:59:26	947	8.37	6.5	152.6	152.7	366.3		
06/21/2015	00:00:11	976	8.37	6.5	157.5	157.5	371.1		
06/21/2015	00:00:56	910	8.37	3.3	161.1	161.1	374.7		
06/21/2015	00:01:41	949	8.37	3.3	163.6	163.6	377.2		
06/21/2015	00:02:26	958	8.37	3.3	166.1	166.1	379.7		
06/21/2015	00:03:11	964	8.37	3.3	168.6	168.6	382.2		
06/21/2015	00:03:56	991	8.37	3.3	171.1	171.1	384.7		
06/21/2015	00:04:41	1573	8.37	0.0	172.0	172.0	385.6		
06/21/2015	00:05:26	1564	8.37	0.0	172.0	172.0	385.6		
06/21/2015	00:05:27	1564	8.37	0.0	172.0	172.0	385.6	Bump Top Plug	
06/21/2015	00:06:11	1561	8.37	0.0	172.0	172.0	385.6		
06/21/2015	00:06:56	1558	8.37	0.0	172.0	172.0	385.6		
06/21/2015	00:07:41	1556	8.37	0.0	172.0	172.0	385.6		
06/21/2015	00:08:26	1555	8.37	0.0	172.0	172.0	385.6		
06/21/2015	00:09:11	1554	8.37	0.0	172.0	172.0	385.6		
06/21/2015	00:09:56	1553	8.38	0.0	172.0	172.0	385.6		
06/21/2015	00:10:41	1550	8.38	0.0	172.0	172.0	385.6		
06/21/2015	00:11:26	4	8.37	0.0	172.0	172.0	385.6		
06/21/2015	00:12:11	8	8.38	0.0	0.0	172.0	385.6		

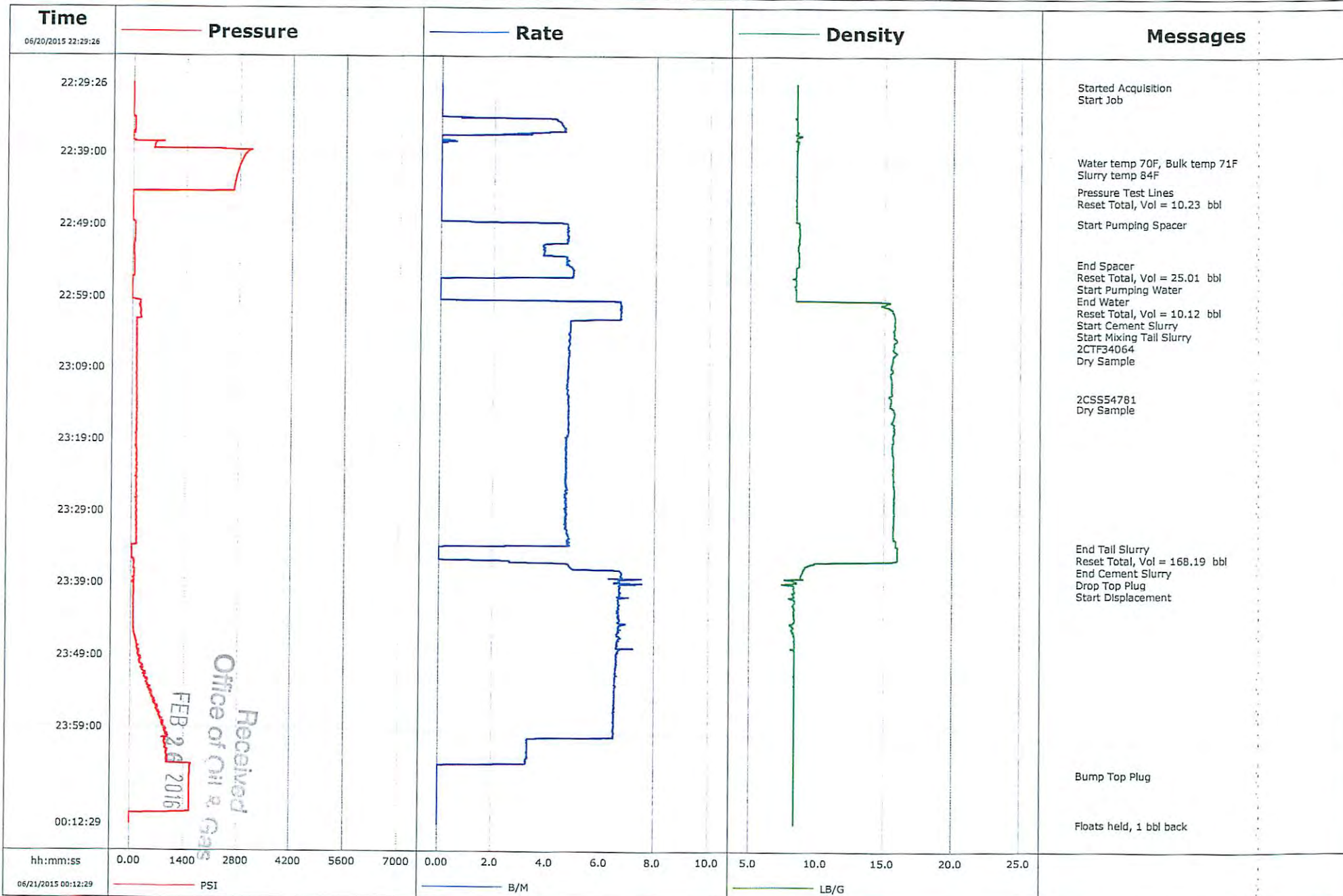
Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
5.2			7.5	385.6	0.0	35.0	
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
3118	9	441			FreshWater	bbl	8.34 lb/gal
Avg. N2 Percent %	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume	23.0 bbl
	0.0 bbl	172.0 bbl	70 degF	Washed Thru Perfs	<input type="checkbox"/>	To	ft
Customer or Authorized Representative	Schlumberger Supervisor			Circulation Lost	<input type="checkbox"/>	Job Completed	<input checked="" type="checkbox"/>
Jim Cover	Joshua Richards			-		-	

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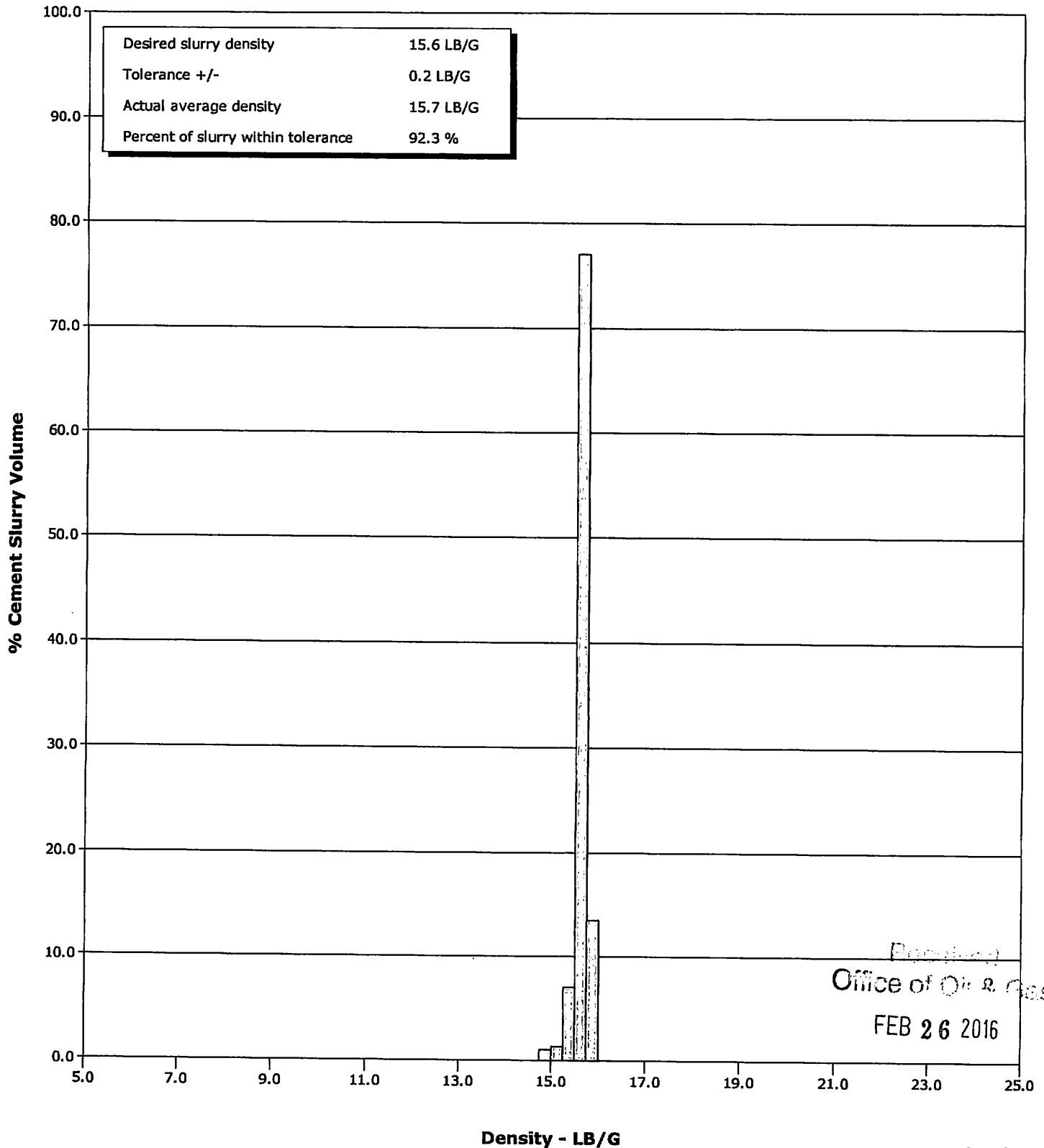
03/11/2016

Well	Statler 10H	Client	Northeast Natural Energy LLC
Field		SIR No.	C4C6-00127
Engineer	Joshua Richards	Job Type	9 5/8" Intermediate
Country	United States	Job Date	06-20-2015



Well	Statler 10H	Client	Northeast Natural Energy LLC
Field		SIR No.	C4C6-00127
Engineer	Joshua Richards	Job Type	9 5/8" Intermediate
Country	United States	Job Date	06-20-2015

Cement Slurry - 06/20/2015 22:59:43 to 06/20/2015 23:33:56



Customer Northeast Natural Energy				Job Number DCHA-00088			
Well Statler 10H 631627544		Location (legal) Patterson #254		Schlumberger Location Weston		Job Start Aug/20/2015	
Field Marcellus Field		Formation Name/Type Sandstone		Deviation 90 deg		Bit Size 8.5 in	
County		State/Province West Virginia		Well MD 13830.0 ft		Well TVD 7945.0 ft	
Well Master 631627544		API/UWI 4706101698		BHP 6400 psi		BHST 142 degF	
Rig Name Patterson #254		Drilled For Gas		Service Via Land		BHCT 137 degF	
Offshore Zone N/A		Well Class New		Well Type Development		Pore Press. Gradient lb/gal	
Drilling Fluid Type SBM		Max. Density 12.70 lb/gal		Plastic Viscosity cP		Casing/Liner	
Service Line Cementing		Job Type Cem Prod Casing		Depth, ft		Size, in	
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection Double Cement head		Weight, lb/ft	
Service Instructions Fill Up Lines 5 bbl Pressure Test Lines Low: 1000 psi High: 5000 psi Pump Mudpush: 100 bbl @ 6 bpm Pump Slurry 559 bbl 14.5 @ 6bpm Drop Top Plug Displace (First 5 w/ sugar) 306.5 bbl @ 7bpm MAX 306.6 bbl Bump 500 over, hold 5 mins, bleed off + check returns Tail: 2660 sk - Yield 1.17 ft3/sk, Water 5.092 gal/sk				Perforations/Open Hole		Grade	
				Top, ft		Bottom, ft	
				ft		ft	
				ft		ft	
				ft		ft	
				shot/ft		No. of Shots	
				Treat Down Casing		Packer Type None	
				Displacement 306.0 bbl		Packer Depth 0.0 ft	
				Tubing Vol. bbl		Annular Vol. 138.1 bbl	
				Casing Vol. bbl		Openhole Vol. 495.9 bbl	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>		Casing Tools		Squeeze Job	
Lift Pressure 13485 psi		Shoe Type Float		Squeeze Type			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth ft		Tool Type	
No. Centralizers		Top Plugs 1		Bottom Plugs		Stage Tool Type 0	
Cement Head Type Double		Stage Tool Depth 0.0 ft		Tail Pipe Size in		Tool Depth ft	
Job Scheduled For Aug/20/2015 14:00		Arrived on Location Aug/20/2015 13:30		Leave Location Aug/21/2015 00:00		Collar Type Float	
						Tail Pipe Depth ft	
						Collar Depth ft	
						Sqz. Total Vol. bbl	
Date	Time 24-hr clock	DENSITY LB/G	RATE B/M	PRESS PSI	VOLUME BBL	Message	
08/20/2015	18:21:06	8.34	0.0	0	0.0	Started Acquisition	
08/20/2015	18:22:46	8.34	0.0	0	0.0		
08/20/2015	18:24:26	8.34	0.0	0	0.0		
08/20/2015	18:26:45	8.34	0.0	-3	0.0	Reset Total, Vol = 0.00 bbl	
08/20/2015	18:26:49	8.34	0.0	-4	0.0	Start Job	
08/20/2015	18:26:54	8.34	0.0	-3	0.0	Pressure Test Lines	
08/20/2015	18:27:46	8.34	0.0	-3	0.0		
08/20/2015	18:29:26	8.35	4.0	691	3.5		
08/20/2015	18:31:06	8.35	0.0	1056	5.2		
08/20/2015	18:32:46	8.35	0.0	4847	5.2		
08/20/2015	18:34:26	8.35	0.0	145	5.2		
08/20/2015	18:35:40	8.35	0.0	152	5.2	Start Pumping Spacer	
08/20/2015	18:35:42	8.35	0.0	152	5.2	Reset Total, Vol = 5.24 bbl	
08/20/2015	18:36:06	8.35	0.0	154	5.2		
08/20/2015	18:37:46	8.35	0.0	162	5.2		
08/20/2015	18:39:26	8.35	0.0	177	5.2		
08/20/2015	18:41:06	8.35	0.0	192	5.2		
08/20/2015	18:42:46	12.90	4.5	933	6.5		
08/20/2015	18:44:26	13.18	4.5	759	14.0		
08/20/2015	18:46:06	13.29	4.5	785	21.5		
08/20/2015	18:47:46	13.21	4.5	723	28.9		

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Well		Field		Job Start		Customer		Job Number	
Statler 10H 631627544		Marcellus Field		Aug/20/2015		Northeast Natural Energy		DCHA-00088	
Date	Time 24-hr clock	DENSITY LB/G	RATE B/M	PRESS PSI	VOLUME BBL	Message			
08/20/2015	18:51:06	13.39	3.2	529	47.3				
08/20/2015	18:52:46	13.44	3.2	572	51.9				
08/20/2015	18:54:26	13.42	2.0	430	55.5				
08/20/2015	18:56:06	13.36	2.0	457	58.8				
08/20/2015	18:57:46	13.40	1.0	347	61.1				
08/20/2015	18:59:26	13.59	1.5	450	62.7				
08/20/2015	19:01:06	13.59	6.2	809	71.8				
08/20/2015	19:02:46	13.61	4.5	609	82.0				
08/20/2015	19:04:26	13.64	4.4	567	89.3				
08/20/2015	19:06:06	13.60	4.4	570	98.3				
08/20/2015	19:07:46	13.47	4.4	541	105.6				
08/20/2015	19:09:10	13.56	0.0	37	105.9	End Spacer			
08/20/2015	19:09:12	13.56	0.0	37	105.9	Reset Total, Vol = 100.68 bbl			
08/20/2015	19:09:15	13.56	0.0	37	105.9	Start Cement Slurry			
08/20/2015	19:09:26	13.56	0.0	37	105.9				
08/20/2015	19:09:33	13.56	0.0	38	105.9	Start Mixing Tail Slurry			
08/20/2015	19:11:06	13.55	0.0	46	105.9				
08/20/2015	19:12:46	13.47	0.0	55	105.9				
08/20/2015	19:14:26	14.17	6.4	1003	113.9				
08/20/2015	19:16:06	14.30	6.3	982	124.5				
08/20/2015	19:17:46	14.49	6.3	1028	135.1				
08/20/2015	19:19:26	14.49	6.4	962	145.7				
08/20/2015	19:21:06	14.50	6.3	937	156.3				
08/20/2015	19:22:46	14.52	6.3	942	166.8				
08/20/2015	19:24:26	14.52	6.3	901	177.4				
08/20/2015	19:26:06	14.53	6.3	930	187.9				
08/20/2015	19:27:46	14.53	6.3	882	198.5				
08/20/2015	19:29:26	14.47	6.3	829	209.1				
08/20/2015	19:31:06	14.54	6.3	892	219.7				
08/20/2015	19:32:46	14.71	6.3	855	230.3				
08/20/2015	19:34:26	14.75	6.3	815	240.8				
08/20/2015	19:36:06	14.78	6.4	815	251.4				
08/20/2015	19:37:46	14.78	6.3	833	262.0				
08/20/2015	19:39:26	14.62	6.4	787	272.6				
08/20/2015	19:41:06	14.61	2.2	109	280.8				
08/20/2015	19:42:46	14.56	2.2	106	284.4				
08/20/2015	19:44:26	14.68	5.9	556	288.7				
08/20/2015	19:46:06	14.71	6.3	813	299.3				
08/20/2015	19:47:46	14.65	6.4	717	309.9				
08/20/2015	19:49:26	14.67	6.4	728	320.5				
08/20/2015	19:51:06	14.59	6.4	712	331.1				
08/20/2015	19:52:46	14.68	6.4	729	341.7				
08/20/2015	19:54:26	14.57	6.4	780	352.3				
08/20/2015	19:56:06	14.63	6.4	732	363.1				
08/20/2015	19:57:46	14.61	6.4	730	373.7				
08/20/2015	19:59:26	14.69	6.4	783	384.3				
08/20/2015	20:01:06	14.68	6.3	814	394.9				
08/20/2015	20:02:46	14.57	6.4	798	405.5				
08/20/2015	20:04:26	14.65	6.4	778	416.1				
08/20/2015	20:06:06	14.62	6.4	821	426.7				
08/20/2015	20:07:46	14.65	6.4	809	437.4				
08/20/2015	20:09:26	14.74	6.4	799	448.0				
08/20/2015	20:11:06	14.67	6.4	820	458.6				
08/20/2015	20:12:46	14.60	2.0	94	466.0				

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Well		Field	Job Start	Customer	Job Number	
Statler 10H 631627544		Marcellus Field	Aug/20/2015	Northeast Natural Energy	DCHA-00088	
Date	Time 24-hr clock	DENSITY LB/G	RATE B/M	PRESS PSI	VOLUME BBL	Message
08/20/2015	20:14:36	14.57	1.9	94	469.5	Tag 053226 Silot 50318
08/20/2015	20:14:56	14.51	3.6	292	470.2	Tag 053242 Silot 50318
08/20/2015	20:15:43	14.57	6.4	533	474.8	Tag 053245 Silot 51796
08/20/2015	20:16:06	14.57	6.4	556	477.2	
08/20/2015	20:16:27	14.57	6.4	907	479.4	Tag 053664 Silot 51796
08/20/2015	20:17:21	14.59	6.3	883	485.2	Tag 053213 Silot 42767
08/20/2015	20:17:46	14.58	6.4	873	487.8	
08/20/2015	20:19:26	14.54	6.4	905	498.4	
08/20/2015	20:20:32	14.60	6.4	934	505.4	Tag 053244 Silot 42767
08/20/2015	20:21:06	14.65	6.4	926	509.0	
08/20/2015	20:22:46	14.58	6.4	879	519.6	
08/20/2015	20:24:26	14.61	6.4	960	530.2	
08/20/2015	20:26:06	14.56	6.4	985	540.8	
08/20/2015	20:27:46	14.57	6.4	944	551.5	
08/20/2015	20:29:26	14.64	6.3	1047	562.1	
08/20/2015	20:31:06	14.57	6.4	1095	572.6	
08/20/2015	20:32:46	14.62	6.4	1069	583.2	
08/20/2015	20:34:26	14.64	6.3	1168	593.8	
08/20/2015	20:36:06	14.64	6.3	1147	604.4	
08/20/2015	20:37:46	14.62	6.4	1200	615.0	
08/20/2015	20:39:26	14.63	6.3	1250	625.6	
08/20/2015	20:41:06	14.64	6.3	1304	636.1	
08/20/2015	20:42:46	14.58	6.3	1297	646.7	
08/20/2015	20:44:26	14.61	3.2	558	654.3	
08/20/2015	20:46:06	14.60	3.2	589	659.8	
08/20/2015	20:47:04	14.66	0.0	-2	662.6	Reset Total, Vol = 556.64 bbl
08/20/2015	20:47:07	14.66	0.0	-4	662.6	End Tail Slurry
08/20/2015	20:47:08	14.66	0.0	-3	662.6	End Cement Slurry
08/20/2015	20:47:12	14.66	0.0	-1	662.6	Drop Top Plug
08/20/2015	20:47:15	14.66	0.0	1	662.6	Start Displacement
08/20/2015	20:47:46	14.65	0.0	1	662.6	
08/20/2015	20:49:26	14.64	0.0	-5	662.6	
08/20/2015	20:51:06	8.85	4.6	104	667.8	
08/20/2015	20:52:46	9.40	4.7	105	675.9	
08/20/2015	20:54:26	8.62	0.0	-7	683.1	
08/20/2015	20:56:06	8.34	4.6	78	686.7	
08/20/2015	20:57:46	8.36	6.3	1275	694.7	
08/20/2015	20:59:26	8.36	7.5	1596	707.1	
08/20/2015	21:01:06	8.35	7.6	1768	719.6	
08/20/2015	21:02:46	8.35	7.5	1953	732.1	
08/20/2015	21:04:26	8.35	7.5	2157	744.6	
08/20/2015	21:06:06	8.35	7.5	2317	757.1	
08/20/2015	21:07:46	8.35	7.5	2490	769.6	
08/20/2015	21:09:26	8.35	7.4	2695	782.0	
08/20/2015	21:11:06	8.35	7.4	2870	794.4	
08/20/2015	21:12:46	8.34	7.5	3045	806.8	
08/20/2015	21:14:26	8.35	7.4	3219	819.2	
08/20/2015	21:16:06	8.35	7.4	3379	831.5	
08/20/2015	21:17:46	8.35	7.4	3545	843.9	
08/20/2015	21:19:26	8.35	7.4	3705	856.2	
08/20/2015	21:21:06	8.35	7.4	3863	868.5	
08/20/2015	21:22:46	8.35	7.4	3874	880.8	
08/20/2015	21:24:26	8.35	7.4	3866	893.0	
08/20/2015	21:26:06	8.35	7.4	3892	905.3	

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Well		Field		Job Start		Customer		Job Number	
Statler 10H 631627544		Marcellus Field		Aug/20/2015		Northeast Natural Energy		DCHA-00088	
Date	Time 24-hr clock	DENSITY LB/G	RATE B/M	PRESS PSI	VOLUME BBL	Message			
08/20/2015	21:29:26	8.35	7.4	3928	929.9				
08/20/2015	21:31:06	8.35	7.4	3917	942.1				
08/20/2015	21:32:46	8.35	7.4	3907	954.4				
08/20/2015	21:34:26	8.35	7.4	3929	966.6				
08/20/2015	21:36:06	8.35	5.5	3673	976.1				
08/20/2015	21:37:46	8.35	3.9	3498	983.1				
08/20/2015	21:39:26	8.35	2.8	3314	989.0				
08/20/2015	21:41:06	8.35	0.0	4196	993.3				
08/20/2015	21:41:13	8.35	0.0	4206	993.3	Bump Top Plug			
08/20/2015	21:41:16	8.35	0.0	4282	993.3	End Displacement - 306.5 bbl by tanks			
08/20/2015	21:42:46	8.35	0.0	4266	993.3				
08/20/2015	21:44:26	8.35	0.0	4263	993.3				
08/20/2015	21:46:06	8.35	0.0	4292	993.3				
08/20/2015	21:47:46	8.35	0.0	3	993.3				
08/20/2015	21:49:26	8.35	0.0	3	993.3				
08/20/2015	21:50:44	8.37	5.0	105	997.4	4.5 bbl in returns			

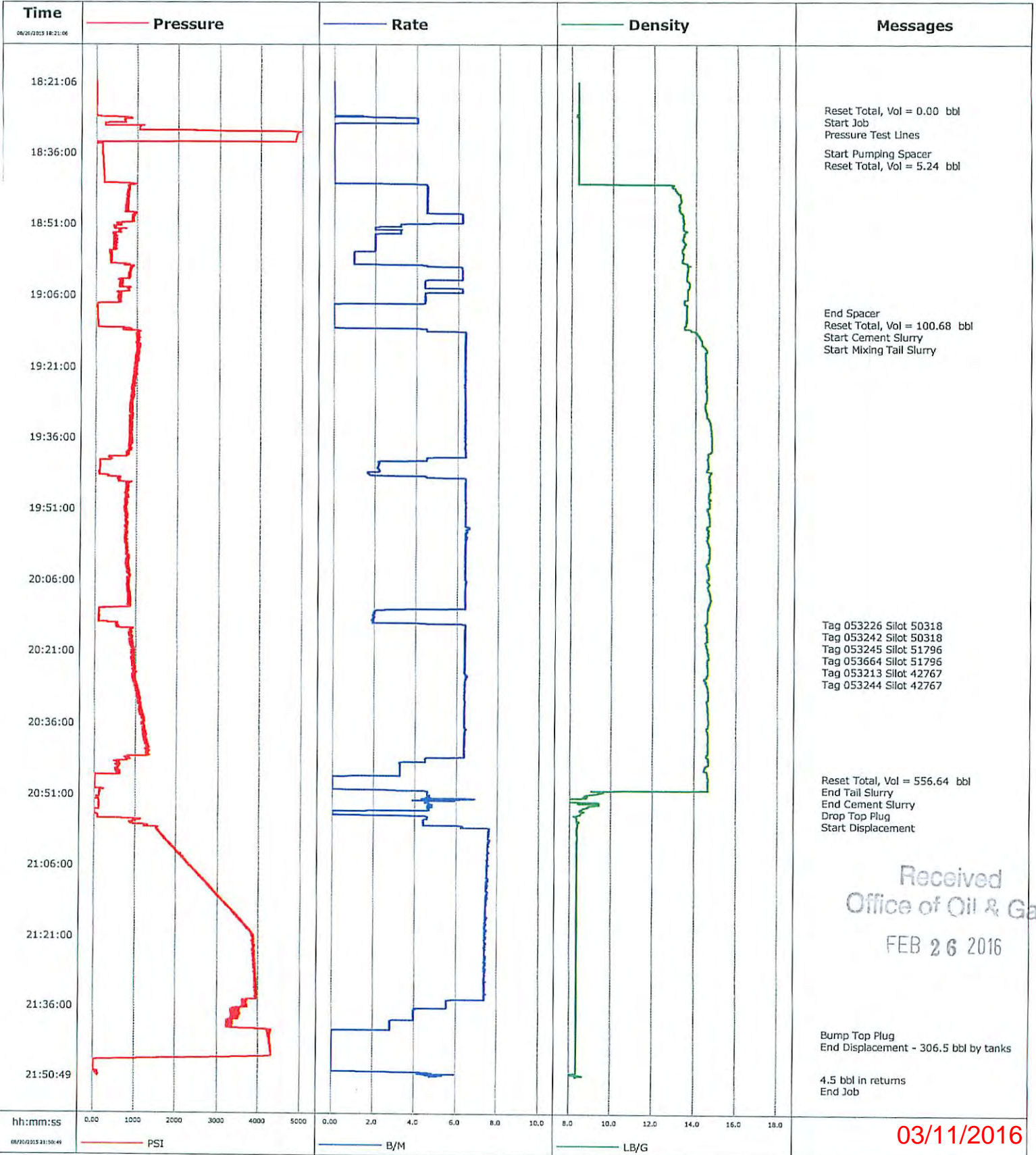
Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
5.8			7.6	997.9	0.0	105.9	
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
4940	113	1358			FreshWater	306.0 bbl	8.34 lb/gal
Avg. N2 Percent %	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume bbl		
	0.0 bbl	330.7 bbl	degF	<input type="checkbox"/>	To ft		
Customer or Authorized Representative		Schlumberger Supervisor		Washed Thru Perfs	Job Completed		
Jamie Czerneski		Mark Nicholas		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
				-	-		

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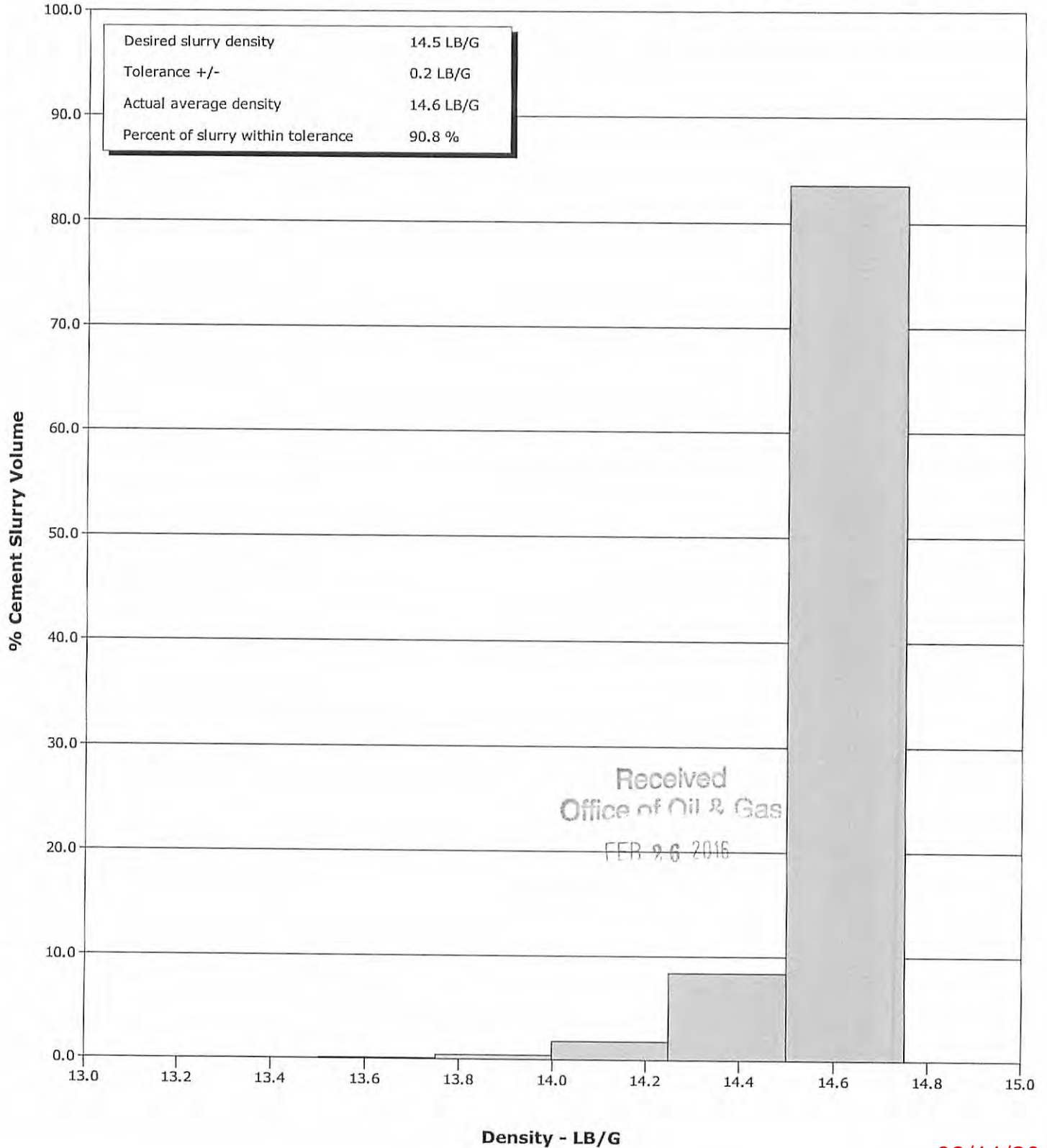
Well	Statler 10H	Client	Northeast Natural Energy
Field	Marcellus Field	SIR No.	DCHA-00088
Engineer	Mark Nicholas	Job Type	Cem Prod Casing
Country	United States	Job Date	08-20-2015



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Well	Statler 10H	Client	Northeast Natural Energy
Field	Marcellus Field	SIR No.	DCHA-00088
Engineer	Mark Nicholas	Job Type	Cem Prod Casing
Country	United States	Job Date	08-20-2015

Cement Slurry - 08/20/2015 19:09:15 to 08/20/2015 20:47:08



Perforation Record

Stage Number	Report Date	Perforated from MD ft	Perforated to MD ft	Number of Perforations	Formation
1	9/14/2015	13739	13593	40	Marcellus Shale
2	9/15/2015	13556	13396	40	Marcellus Shale
3	9/15/2015	13359	13199	40	Marcellus Shale
4	9/15/2015	13162	13002	40	Marcellus Shale
5	9/16/2015	12965	12807	40	Marcellus Shale
6	9/17/2015	12768	12608	40	Marcellus Shale
7	9/17/2015	12570	12416	40	Marcellus Shale
8	9/17/2015	12373	12214	40	Marcellus Shale
9	9/18/2015	12176	12016	40	Marcellus Shale
10	9/18/2015	11974	11819	40	Marcellus Shale
11	9/18/2015	11782	11622	40	Marcellus Shale
12	9/19/2015	11585	11425	40	Marcellus Shale
13	9/19/2015	11388	11228	40	Marcellus Shale
14	9/19/2015	11191	11031	40	Marcellus Shale
15	9/20/2015	10994	10875	40	Marcellus Shale
16	9/20/2015	10797	10640	40	Marcellus Shale
17	9/21/2015	10599	10440	40	Marcellus Shale
18	9/21/2015	10402	10240	40	Marcellus Shale
19	9/21/2015	10206	10046	40	Marcellus Shale
20	9/22/2015	10008	9848	40	Marcellus Shale
21	9/22/2015	9807	9651	40	Marcellus Shale
22	9/22/2015	9614	9454	40	Marcellus Shale
23	9/22/2015	9417	9257	40	Marcellus Shale
24	9/23/2015	9220	9060	40	Marcellus Shale
25	9/23/2015	9023	8863	40	Marcellus Shale
26	9/23/2015	8825	8666	40	Marcellus Shale
27	9/24/2015	8628	8466	40	Marcellus Shale
28	9/24/2015	8431	8272	40	Marcellus Shale

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Stimulation Record

Stage Number	Report Date	Avg Treating Rate (BPM)	Avg Treating Pressure (psi)	Breakdown Pressure (psi)	ISIP (psi)	Total Proppant Amount (lbs)	Total Clean Fluid (Bbls)
1	9/14/2015	82.2	8941	7866	5493	405100	7870
2	9/15/2015	86.2	8998	7683	5735	403200	7595
3	9/15/2015	89.7	8972	7411	6395	399000	7621
4	9/15/2015	81.5	8653	6903	5424	407600	9626
5	9/16/2015	95	8725	6079	5474	400022	7724
6	9/17/2015	89.4	8890	7346	5684	401960	6997
7	9/17/2015	91.5	8917	7832	6119	406520	6915
8	9/17/2015	95.2	8757	6506	5962	399460	6870
9	9/18/2015	92	8759	6612	4877	403400	6789
10	9/18/2015	94.8	8528	6842	5082	401100	6660
11	9/18/2015	92.5	8583	7046	5063	410640	6392
12	9/19/2015	93.7	8691	6743	5128	400796	6451
13	9/19/2015	95.3	8894	7295	5445	402360	6218
14	9/19/2015	95	8994	6877	5106	394200	5654
15	9/20/2015	98.2	8896	6995	5603	403520	6318
16	9/20/2015	100.1	8897	6841	5916	397760	5747
17	9/21/2015	98.5	8885	6936	5119	407680	5845
18	9/21/2015	99	8845	6907	5132	406940	5854
19	9/21/2015	99.9	8894	7330	5651	416360	5900
20	9/22/2015	96	8914	7112	5325	408500	5769
21	9/22/2015	94	9018	6855	5713	402960	5768
22	9/22/2015	96.8	8944	6294	5334	403460	5469
23	9/22/2015	94.6	8960	6606	5140	399880	5509
24	9/23/2015	91.8	8957	7383	5361	408160	6689
25	9/23/2015	99.5	8851	7039	5317	302220	4603
26	9/23/2015	96	8919	7053	5771	301240	4133
27	9/24/2015	100	8746	6642	5466	303480	4689
28	9/24/2015	98.9	8594	7200	4931	300000	3948

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Hydraulic Fracturing Fluid Product Component Information Disclosure



Job Start Date:	9/14/2015
Job End Date:	9/24/2015
State:	West Virginia
County:	Monongalia
API Number:	47-061-01698-00-00
Operator Name:	Northeast Natural Energy LLC
Well Name and Number:	Statler 10H
Longitude:	-80.17804900
Latitude:	39.70782800
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	7,948
Total Base Water Volume (gal):	7,845,600
Total Base Non Water Volume:	0

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Northeast Natural Energy LLC	Water					
			Water	7732-18-5	100.00000	84.52772	
Sand	C&J Well Services	Sand - Bulk - Pennsylvania					
			Crystalline Silica, quartz	14808-60-7	99.90000	11.15588	
			Aluminum Oxide	1344-28-1	1.10000	0.12284	
			Iron Oxide	1309-37-1	0.10000	0.01117	
			Titanium Oxide	13463-67-7	0.10000	0.01117	
Sand	C&J Well Services	Sand - Bulk - Pennsylvania					
			Crystalline Silica, quartz	14808-60-7	99.90000	3.74169	
			Aluminum Oxide	1344-28-1	1.10000	0.04120	
			Iron Oxide	1309-37-1	0.10000	0.00375	
			Titanium Oxide	13463-67-7	0.10000	0.00375	
HCl Acid (12.5-18.0%) 22 Baume	C&J Well Services	Bulk Acid					
			Water	7732-18-5	87.50000	0.41419	
			Hydrochloric Acid	7647-01-0	18.00000	0.08521	
FR-18	C&J Well Services	Friction Reducer					
			Distillates (Petroleum), Hydrotreated Light	64742-47-8	45.00000	0.02298	

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			Ethylene Glycol	107-21-1	10.00000	0.00511	
K-139	Nalco-Champion	Microbial Control					
			Benzyl-(C12-C16 Alkyl)- Dimethyl-Ammonium Chloride	68424-85-1	30.00000	0.01033	
			Glutaraldehyde	111-30-8	10.00000	0.00405	
			Ethanol	64-17-5	5.00000	0.00141	
WFR-12W	C&J Well Services	Friction Reducer					
			Anionic water-soluble polymer	Proprietary	100.00000	0.01574	
EC6486A	Nalco-Champion	Scale Inhibitor					
			Ethylene Glycol	107-21-1	30.00000	0.00149	
			Amine Triphosphate	Proprietary	30.00000	0.00134	
SV-1	C&J Well Services	Paraffin & Scale Additives					
			Alkanes, C10-24 branched and linear	848301-67-7	90.00000	0.00049	
			Dodecane	112-40-3	40.00000	0.00022	
			Tridecane	Proprietary	30.00000	0.00016	
			Undecane	1120-21-4	30.00000	0.00016	
			Tetradecane	629-59-4	30.00000	0.00016	
			Hydrocarbons	Proprietary	25.00000	0.00014	
Acid Inhibitor 2 (AI-2)	C&J Well Services	Acid Corrosion Inhibitors					
			Isopropyl Alcohol	67-63-0	20.00000	0.00009	
			Propargyl Alcohol	107-19-7	20.00000	0.00009	
			2-Butoxyethanol	111-76-2	20.00000	0.00009	
			Proprietary	Proprietary	15.00000	0.00007	
			Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	10.00000	0.00005	
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Other Ingredients	C&J Well Services	Other Ingredients					
			Anionic Polyacrylamide	Proprietary	100.00000	0.01685	
			Water	7732-18-5	33.00000	0.01685	
			Anionic Polyacrylamide	Proprietary	100.00000	0.01574	
			Water	7732-18-5	33.00000	0.00519	
			Isoparaffinic Solvent	64742-47-8	30.00000	0.00472	
			Alcohol Ethoxylates Component	Proprietary	100.00000	0.00255	
			Alcohol Ethoxylates component	Proprietary	100.00000	0.00255	
			Surfactant Blend	Proprietary	5.00000	0.00079	
			Ethoxylated alcohols	Proprietary	4.00000	0.00063	
			Ethylene Glycol	107-21-1	4.00000	0.00063	
			Water	7732-18-5	48.00000	0.00022	
			Glycol Ethers	111-46-6	40.00000	0.00018	
			Acrylamide as residue	79-06-1	0.10000	0.00002	
			Proprietary	Proprietary	0.99000	0.00000	
			Proprietary	Proprietary	0.02000		

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* Total Water Volume sources may include fresh water, produced water, and/or recycled water
** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.
Ingredient information for chemicals subject to 29 CFR 1910.1200(l) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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