

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

API 47-061-01819 County Monongalia District Battelle
Quad Mannington Pad Name McClellan Field/Pool Name _____
Farm name McClellan Well Number 5H
Operator (as registered with the OOG) Northeast Natural Energy LLC
Address 707 Virginia St. E, 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 4386024.4 Easting 561902.2
Landing Point of Curve Northing 4386271.1 Easting 562018.4
Bottom Hole Northing 4389916.3 Easting 559496.3

Elevation (ft) 1,412' 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 1/16/2019 Date drilling commenced 6/16/2019 Date drilling ceased 3/7/2020
Date completion activities began 5/10/2020 Date completion activities ceased 5/28/2020
Verbal plugging (Y/N) N Date permission granted NA Granted by NA RECEIVED
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Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug OCT 5 2020

Freshwater depth(s) ft 726', 1105', 1135' Open mine(s) (Y/N) depths _____
Salt water depth(s) ft 2150', 2470' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1095' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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Reviewed by:
Bryan Harris

API 47-061 - 01819

Farm name McClellan

Well number 5H

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"	58'	N	94.71	NA	Y, CTS
Surface	17-1/2"	13-3/8"	1,253'	N	54.5	NA	Y, 30 bbl
Coal							
Intermediate 1	12-1/4"	9-5/8"	2,761'	N	40	NA	Y, 22 bbl
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	23,248'	N	20	NA	Y, 6 bbl
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	4500 psi ready mix	36				CTS	48
Surface	Class A	1,085	15.6	1.43	1,279	CTS	8
Coal							
Intermediate 1	Class A	980	15.2	1.23	1,083	CTS	8
Intermediate 2							
Intermediate 3							
Production	50:50 Poz	4,260	14.4	1.16	4,929	2,271'	48
Tubing							

Drillers TD (ft) 23,248'

Loggers TD (ft) 23,218'

Deepest formation penetrated Marcellus

Plug back to (ft) NA

Plug back procedure NA

Kick off depth (ft) 7,350' MD

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 approximately 120'

Intermediate: Bow spring centralizers every 3rd joint or approximately 120'

Production: Rigid body centralizers placed at a minimum of every other joint (~80') from TD to surface

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

McClellan Lithology

Lithology/Formation	Top Depth in FT TVD	Bottom Depth in FT TVD	Describe rock type and record quantity and type of fluid (freshwater, brine, oil, gas, H2S, etc)
Sand/silt	0	160	Sand/silt
silt/red shale	160	490	silt/red shale
siltstone/sandstone/limestone	490	520	siltstone/sandstone/limestone
limestone/siltstone/sandstone	520	576	siltstone
coal	576	580	coal
siltstone/limestone/shale	580	760	siltstone/shale
coal	760	992	siltstone/shale/limestone
siltstone/sandstone	992	998	coal
coal	998	1084	siltstone/shale/limestone
sandstone/siltstone/limestone	1084	1092	coal - Pittsburgh
coal-Pittsburgh	1092	1120	siltstone/shale/limestone
sandstone/limestone	1120	1150	sandstone
red shale/siltstone	1150	1480	siltstone/limestone/sand/red shale
Limestone/siltstone	1480	2050	siltstone/sandstone
sandstone	2050	2110	sandstone
sandstone/siltstone/red shale	2110	2260	siltstone/sandstone
siltstone/sandstone	2260	2470	siltstone/limestone
sandstone	2470	2500	Big Injun Sandstone
Upper Devonian Sands/silts	2500	3010	sandstone/siltstone
shale/siltstone	3010	3020	Gantz sandstone
Upper Devonian Sands/silts	3020	3560	Upper Devonian sandstones/siltstones
Devonian siltstones/shales	3560	7620	Devonian siltstones/shales
Middlesex shale/silt	7620	7790	Middlesex shale/silt
Burkett shale	7790	7816	Burkett Shale
Geneseo shale	7816	7845	Geneseo shale
Tully Limestone	7845	7898	Tully Limestone
Hamilton shale	7898	7996	Hamilton shale
Marcellus shale	7996	TD	Marcellus shale

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McClellan 5H Perforation Summary

Stage Number	Report Date	Cluster 5 Bottom TD	Cluster 1 Top TD	Total Shots
1	5/29/2020	23,141	0	0
2	5/30/2020	22,939	23,098	40
3	5/30/2020	22,738	22,897	40
4	5/30/2020	22,537	22,696	40
5	5/31/2020	22,337	22,495	40
6	5/31/2020	22,136	22,294	40
7	5/31/2020	21,935	22,094	40
8	5/31/2020	21,734	21,893	40
9	6/1/2020	21,533	21,692	40
10	6/1/2020	21,333	21,491	40
11	6/1/2020	21,132	21,290	40
12	6/1/2020	20,931	21,090	40
13	6/2/2020	20,730	20,889	40
14	6/2/2020	20,529	20,688	40
15	6/2/2020	20,329	20,487	40
16	6/2/2020	20,128	20,286	40
17	6/3/2020	19,927	20,086	40
18	6/3/2020	19,746	19,885	40
19	6/3/2020	19,525	19,684	40
20	6/3/2020	19,325	19,483	40
21	6/4/2020	19,124	19,282	40
22	6/4/2020	18,923	19,082	40
23	6/5/2020	18,722	18,881	40
24	6/5/2020	18,521	18,680	40
25	6/5/2020	18,321	18,479	40
26	6/5/2020	18,120	18,278	40
27	6/5/2020	17,919	18,078	40
28	6/6/2020	17,718	17,887	40
29	6/6/2020	17,517	17,676	40
30	6/6/2020	17,317	17,475	40
31	6/6/2020	17,116	17,274	40
32	6/7/2020	16,915	17,074	40
33	6/7/2020	16,714	16,873	40
34	6/7/2020	16,513	16,672	40
35	6/7/2020	16,313	16,471	40
36	6/8/2020	16,112	16,270	40
37	6/8/2020	15,911	16,070	40
38	6/8/2020	15,710	15,869	40
39	6/8/2020	15,509	15,668	40
40	6/9/2020	15,309	15,467	40
41	6/9/2020	15,108	15,266	40
42	6/9/2020	14,907	15,066	40
43	6/9/2020	14,706	14,865	40
44	6/10/2020	14,505	14,664	40
45	6/10/2020	14,305	14,463	40
46	6/10/2020	14,104	14,262	40
47	6/10/2020	13,903	14,062	40
48	6/11/2020	13,702	13,861	40

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McClellan 5H Perforation Summary				
Stage Number	Report Date	Cluster 5 Bottom TD	Cluster 1 Top TD	Total Shots
49	6/11/2020	13,501	13,660	40
50	6/11/2020	13,301	13,459	40
51	6/11/2020	13,100	13,258	40
52	6/11/2020	12,899	13,058	40
53	6/12/2020	12,698	12,857	40
54	6/12/2020	12,497	12,656	40
55	6/12/2020	12,297	12,455	40
56	6/12/2020	12,096	12,254	40
57	6/13/2020	11,895	12,054	40
58	6/13/2020	11,694	11,853	40
59	6/13/2020	11,493	11,652	40
60	6/14/2020	11,293	11,451	40
61	6/14/2020	11,092	11,250	40
62	6/15/2020	10,891	11,050	40
63	6/15/2020	10,690	10,849	40
64	6/16/2020	10,489	10,648	40
65	6/16/2020	10,289	10,447	40
66	6/17/2020	10,088	10,246	40
67	6/18/2020	9,887	10,046	40
68	6/18/2020	9,686	9,845	40
69	6/19/2020	9,485	9,644	40
70	6/19/2020	9,285	9,443	40
71	6/20/2020	9,084	9,242	40
72	6/20/2020	8,883	9,042	40
73	6/20/2020	8,682	8,841	40

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McClellan 5H Stimulation Report

Stage Number	Report Date	ISIP (psi)	Breakdown Pressure (psi)	Avg Treating Pressure (psi)	Avg Treating Rate (BPM)	Pad Volume (bbls)	Total Clean Fluid (Bbls)	Total Proppant Amount (lbs)	Flush Volume (bbls)
1	5/29/2020	5,421	8,962	8,927	89	152	6,324	294,040	517
2	5/30/2020	5,818	7,166	9,378	92	110	9,439	455,440	520
3	5/30/2020	6,312	8,950	9,602	90	12	9,393	458,960	512
4	5/30/2020	5,705	7,238	9,447	90	44	8,960	454,930	503
5	5/31/2020	5,446	7,405	9,475	89	30	8,720	458,070	498
6	5/31/2020	5,810	7,563	9,253	86	30	8,796	454,700	502
7	5/31/2020	5,943	7,453	9,649	87	125	10,005	454,750	498
8	5/31/2020	5,826	7,348	9,720	89	55	8,700	455,190	485
9	6/1/2020	5,935	7,231	9,594	90	42	8,574	456,030	481
10	6/1/2020	6,100	8,281	9,834	89	77	9,208	452,020	484
11	6/1/2020	5,101	7,938	9,738	90	56	9,446	470,240	481
12	6/1/2020	6,015	6,992	9,416	90	20	8,547	456,170	467
13	6/2/2020	6,168	7,218	9,565	91	18	8,753	458,750	463
14	6/2/2020	6,288	7,679	9,506	89	38	8,843	453,200	465
15	6/2/2020	5,977	7,165	9,472	89	100	9,146	453,330	463
16	6/2/2020	5,274	6,824	9,343	89	25	9,010	454,790	449
17	6/3/2020	5,495	7,040	9,375	90	35	8,817	457,620	445
18	6/3/2020	5,865	7,168	9,453	90	22	8,275	455,230	448
19	6/3/2020	5,722	7,411	9,306	89	25	8,746	458,800	436
20	6/3/2020	5,410	7,774	9,593	87	23	8,373	455,260	432
21	6/4/2020	5,690	6,963	9,530	90	28	8,269	453,860	427
22	6/4/2020	5,639	7,557	9,563	90	30	8,377	458,340	423
23	6/5/2020	5,404	7,568	9,655	88	30	8,282	456,000	418
24	6/5/2020	5,547	7,138	9,452	89	40	8,544	461,200	423
25	6/5/2020	6,522	7,325	9,647	89	33	8,265	456,920	602
26	6/5/2020	6,005	6,768	9,388	89	21	8,559	451,160	405
27	6/5/2020	5,761	7,433	9,590	90	57	8,263	457,340	401
28	6/6/2020	5,610	7,696	9,590	90	33	8,220	462,100	396
29	6/6/2020	5,951	7,830	9,667	90	20	8,093	456,920	394
30	6/6/2020	5,396	7,109	9,483	88	27	8,069	455,520	386
31	6/6/2020	5,048	7,687	9,637	90	25	8,114	454,430	383
32	6/7/2020	5,851	7,438	9,720	89	28	8,211	462,320	378
33	6/7/2020	5,584	6,949	9,138	90	20	8,033	452,620	373
34	6/7/2020	5,722	7,543	9,511	90	66	8,171	456,740	373
35	6/7/2020	5,884	7,596	9,299	90	33	8,114	458,760	365
36	6/8/2020	6,126	7,668	9,418	92	26	8,407	455,420	360
37	6/8/2020	5,793	7,308	9,126	90	25	7,978	455,020	357
38	6/8/2020	5,518	7,411	9,123	90	20	7,933	457,760	351
39	6/8/2020	5,958	7,660	9,109	91	20	8,165	451,200	347
40	6/9/2020	5,668	7,235	9,087	90	25	8,132	455,580	343
41	6/9/2020	5,834	7,668	9,172	90	30	8,034	460,360	337
42	6/9/2020	5,641	7,539	9,105	90	20	7,838	454,340	333
43	6/9/2020	5,858	7,837	9,499	91	25	8,101	457,260	330
44	6/10/2020	5,643	7,344	9,335	90	20	8,029	452,340	326
45	6/10/2020	5,653	7,244	9,280	90	67	7,755	454,840	323
46	6/10/2020	5,660	7,767	9,417	89	31	7,198	452,660	317
47	6/10/2020	5,996	7,162	9,129	90	33	7,731	450,300	315
48	6/11/2020	5,864	7,828	9,316	91	24	7,981	455,640	308
49	6/11/2020	5,494	7,786	9,308	90	30	7,511	453,620	301
50	6/11/2020	5,701	7,435	9,331	90	28	7,432	454,800	295
51	6/11/2020	5,527	7,828	9,414	91	39	8,004	455,140	295
52	6/11/2020	5,433	7,367	9,066	89	20	7,738	459,820	294
53	6/12/2020	5,756	7,475	8,881	90	30	8,071	457,510	290

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McClellan 5H Stimulation Report

Stage Number	Report Date	ISIP (psi)	Breakdown Pressure (psi)	Avg Treating Pressure (psi)	Avg Treating Rate (BPM)	Pad Volume (bbbls)	Total Clean Fluid (Bbls)	Total Proppant Amount (lbs)	Flush Volume (bbbls)
54	6/12/2020	5,493	7,374	9,197	89	500	8,825	455,310	280
55	6/12/2020	5,986	7,012	8,875	93	29	8,306	458,110	280
56	6/12/2020	5,984	7,665	8,978	90	24	8,345	443,560	277
57	6/13/2020	5,595	7,711	8,872	91	22	8,284	459,460	270
58	6/13/2020	5,498	7,049	9,111	89	508	8,706	457,920	260
59	6/13/2020	5,555	7,378	8,736	89	200	8,653	465,040	256
60	6/14/2020	6,181	6,829	8,481	90	100	8,455	455,700	252
61	6/14/2020	5,988	7,003	8,352	90	115	8,539	456,040	250
62	6/15/2020	6,166	7,224	8,721	89	100	8,339	456,680	244
63	6/15/2020	6,626	7,978	8,746	90	21	8,551	446,660	256
64	6/16/2020	5,925	7,361	8,544	91	100	8,481	458,520	234
65	6/16/2020	5,730	7,528	8,391	92	54	8,793	451,320	234
66	6/17/2020	5,737	7,517	8,385	90	123	8,399	458,440	227
67	6/18/2020	5,575	7,800	8,430	90	100	8,433	455,730	223
68	6/18/2020	5,709	8,815	8,697	90	26	9,107	454,000	221
69	6/19/2020	5,708	7,962	8,427	90	100	8,367	454,710	215
70	6/19/2020	5,602	7,761	8,328	90	100	8,378	452,940	216
71	6/20/2020	6,627	7,580	8,175	91	33	8,664	454,160	209
72	6/20/2020	6,196	6,624	7,908	90	100	8,459	473,100	201
73	6/20/2020	4,895	7,437	7,925	90	1,000	12,030	464,720	196

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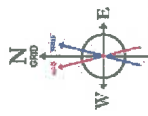
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NORTHEAST NATURAL ENERGY, LLC

Location: Monongalia County, WV
 Field: Monongalia
 Facility: McClellan Pad

Slot: Slot #05
 Well: McClellan 5H
 Wellbore: McClellan 5H PWB

Grid System	NAD83 Lambert West Virginia SR, Indiana Zone (FZ0), US Std.
North Reference	Grid North
Scale	True distance
Reference vertical measured depths are referenced to Patterson 339 (K5)	
Patterson 339 (K5) to Mean Sea Level: 1435 feet	
Mean Sea Level to Ground level (At Slot #05) -1411 feet	
Other wellbore IDs are referenced to each well's official MD datum	



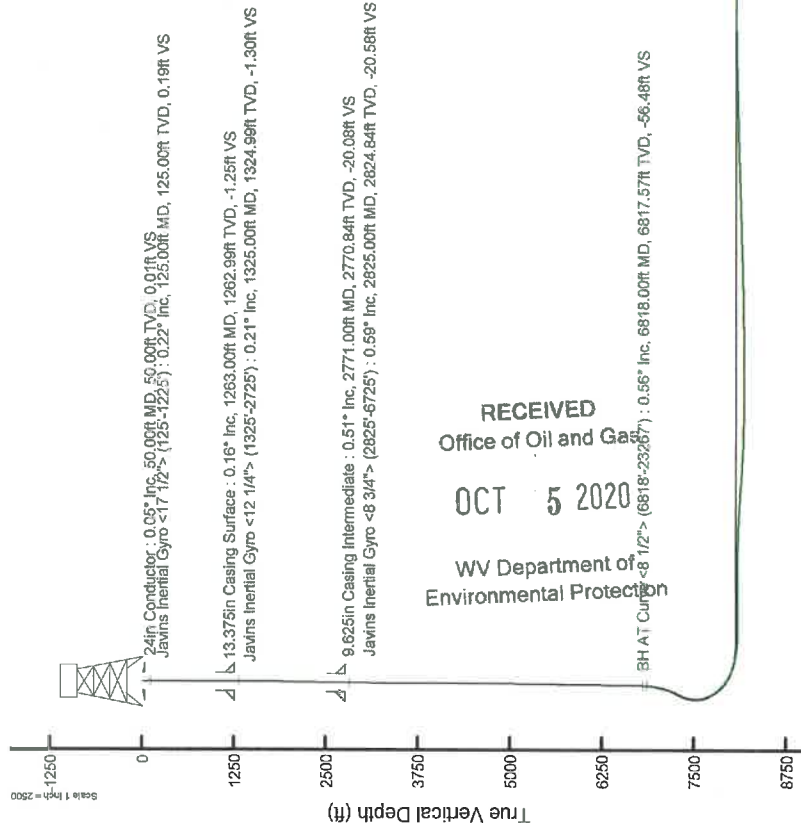
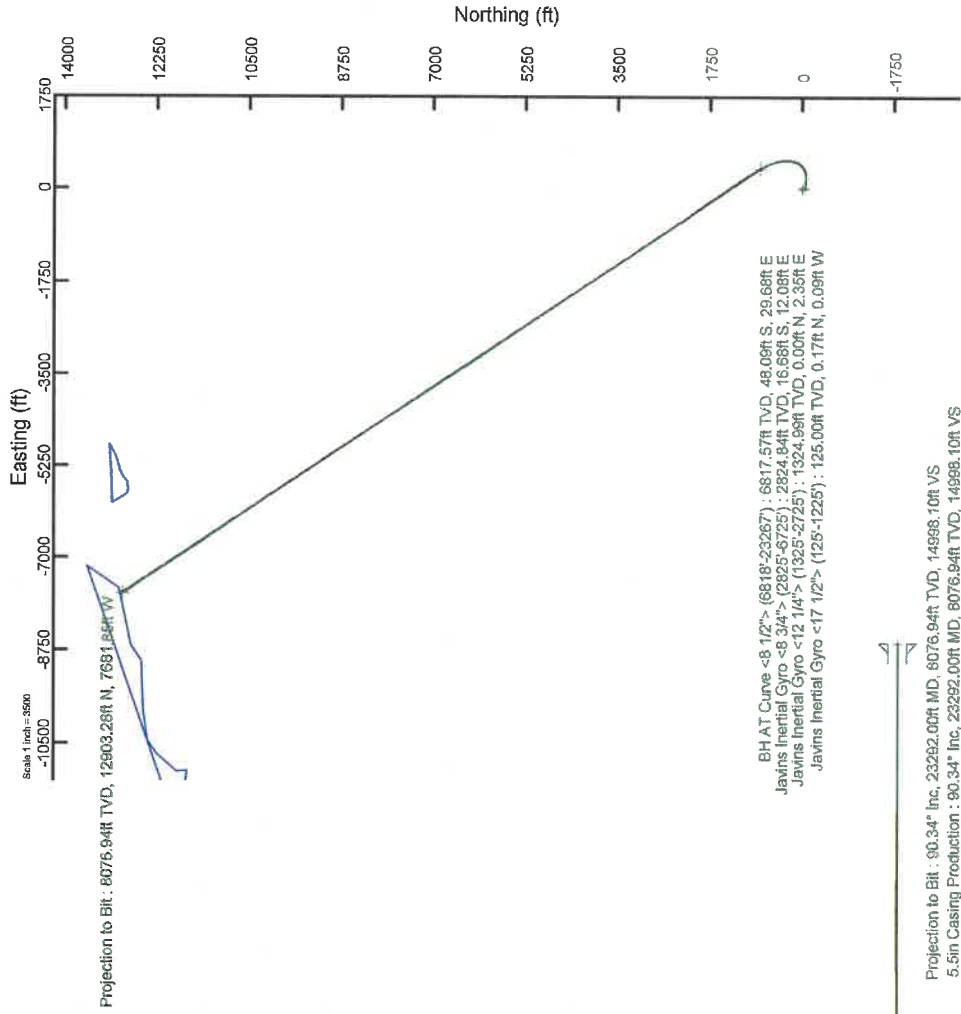
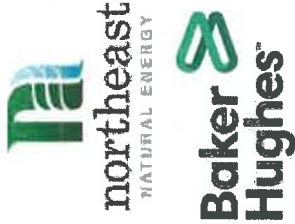
Use identified Dip: 68.01° (Grid: 50076.0°)
 Magnetic North is 12.5° West of Grid North
 Grid North is 0.50 degrees West of True North
 To correct azimuth from True to Grid add 0.50 degrees
 To correct azimuth from Magnetic to Grid subtract 0.57 degrees

Location Information

Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
McClellan Pad	1749185.000	408495.900	39°37'18.0211"N	80°16'42.9186"W
Slot #05	26.82	1749132.770	39°37'18.2817"N	80°16'43.5891"W
Patterson 339 (K5) to Ground level (At Slot #05)		408522.720	25ft	
Mean Sea Level to Ground level (At Slot #05)			-1411ft	
Patterson 339 (K5) to Mean Sea Level			1435ft	

Comments

API: 47-061-01919-0000
 BH Job #: 110232043A
 Rig: Patterson 339
 Duration: 02/27/2020 - 03/05/2020



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Ticket #: 0

Remit to:
 Lightning Energy Services
 104 Heliport Loop Road
 Bridgeport, WV 26330

Job Times				
Date:	On Loc:	Job Start:	Job End:	Off Loc:
	06/17/19	06/18/19		
Time:	6:00pm	1:00am	3:00am	5:am

Customer and Well Information					
Customer: NORTHEAST		Well Name: McClellan		Well #: 5H	Well Type: GAS
County:	State: WV	AFE #/API #: 100432-602	PO #/Permit #:	Well Class:	
Field:		Lease: McClellan		Rig Name/# : HIGHLAND RIG 8	
Wellbore Information					
Bit Size (Inches): 27.5	Well MD (ft):	Well TVD (ft): 1308	BHST (F°):	BHCT (F°):	Deviation (°):
Drilling Fluid Type:	Drilling Fluid Density (ppg):	Packer Depth (ft):	Treating Down:		
Previous Casing/Liner					
Size (Inches): 24	Weight (lb/ft):	Thread:	Grade:	Total Footage (ft): 58	
Casing/Liner/Tubing					
Size (Inches): 13.375	Weight (lb/ft): 54.5	Thread:	Grade:	Total Footage (ft): 1253	
Job					
Job Type: Intermediate		Connection to Well: YES		Top Plug: YES	
Lift Pressure (PSI): 476	Max Annulus Pressure (PSI):	Mix Water Temp (F°):		Bottom Plug: No	
Casing/Tubing Secured : YES	Pipe Rotated: No	Cement Return to Surface (bbil): 30	Top Job (bbil): no		
Pipe Reciprocated : No	Circulation Lost: No	Job Completed: YES			

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Ticket #: 0

Remit to:
 Lightning Energy Services
 104 Heliport Loop Road
 Bridgeport, WV 26330

Job Times				
Date:	On Loc:	Job Start:	Job End:	Off Loc:
	06/20/19			06/20/19
Time:	12:pm	4:05pm	6:46pm	8:pm

Customer and Well Information					
Customer: NORTHEAST		Well Name: McClellan		Well #: 5H	Well Type: GAS
County:	State: WV	AFE #/API #: 100432-602		PO #/Permit #:	Well Class:
Field:		Lease: McClellan		Rig Name/# : HIGHLAND RIG 8	
Wellbore Information					
Bit Size (Inches): 12.25	Well MD (ft):	Well TVD (ft): 2811	BHST (F°):	BHCT (F°):	Deviation (°):
Drilling Fluid Type:	Drilling Fluid Density (ppg):		Packer Depth (ft):	Treating Down:	
Previous Casing/Liner					
Size (Inches): 13.375	Weight (lb/ft): 54.5	Thread:	Grade:	Total Footage (ft): 1253	
Casing/Liner/Tubing					
Size (Inches): 9.625	Weight (lb/ft): 40	Thread:	Grade:	Total Footage (ft): 2761	
Job					
Job Type: Intermediate		Connection to Well: YES		Top Plug: YES	
Lift Pressure (PSI): 1044	Max Annulus Pressure (PSI):		Mix Water Temp (F°):	Bottom Plug: No	
Casing/Tubing Secured : YES		Pipe Rotated: No	Cement Return to Surface (bbl): 22	Top Job (bbl): no	
Pipe Reciprocated : No	Circulation Lost: No	Job Completed: YES			

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date	5/29/2020
Job End Date	6/20/2020
State	West Virginia
County	Monongalia
API Number	47-061-01819-00-00
Operator Name	Northeast Natural Energy LLC
Well Name and Number	McClellan 5H
Latitude	39.62174500
Longitude	-80.27877500
Datum	NAD83
Federal Well	NO
Indian Well	NO
True Vertical Depth	8,200
Total Base Water Volume (gal)	25,974,438
Total Base Non Water Volume	91,834



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	Company 1	Carrier/Base Fluid	Water	7732-18-5	100.00000	86.45508	None
Sand (Proppant)	Producers Service Corp	Proppant					
StimStream SC-404	Producers Service Corp	Scale Inhibitor	Silica Substrate	14808-60-7	100.00000	13.22547	None
			Non-Hazardous substances	Proprietary	85.00000	0.02539	None
			2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)	37971-36-1	5.00000	0.00149	None
			Bis(HexaMethylene Triamine Penta) (BHMT)	34690-00-1	5.00000	0.00149	None
			Citric acid	77-92-9	5.00000	0.00149	None
StimSTREAM FR 9800	Producers Service Corp	Friction Reducer					
			copolymer of 2-propenamide	Proprietary	30.00000	0.01623	None
			Petroleum Distillate	64742-47-8	20.00000	0.01082	None
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00108	None
			Oleic Acid Diethanolamide	93-83-4	2.00000	0.00108	None
			Ammonium chloride ((NH4)Cl)	12125-02-9	1.00000	0.00054	None

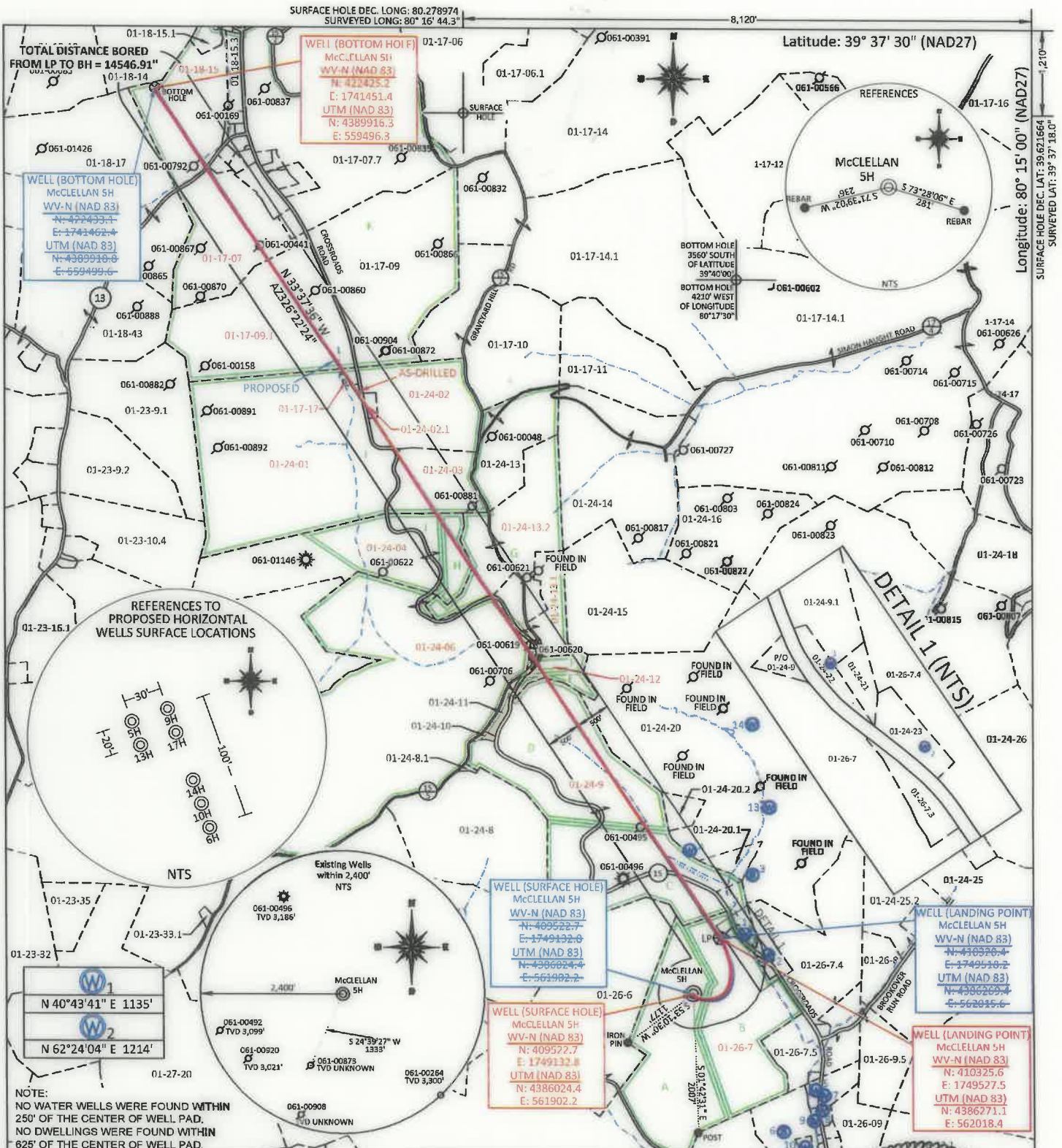
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Clearal 268	Producers Service Corp	Biocide	Non-Hazardous substances	Proprietary					
			Glutaraldehyde	111-30-8			80.00000		0.01443
			Didecyl dimethyl ammonium chloride	7173-51-5			20.00000		0.00361
			Quaternary Ammonium Compounds	68424-85-1			3.00000		0.00054
			Ethanol	64-17-5			3.00000		0.00054
7.5% HCL	Producers Service Corp	Acidizing	Hydrochloric Acid	7647-01-0			1.50000		0.00027
4-N-1	Producers Service Corp	Inhibitor	Acetic acid	64-19-7			7.50000		0.01628
			2-Ethylhexanol	104-76-7			90.00000		0.00038
			Methanol	67-56-1			10.00000		0.00004
			Cocamide Diethanolamine	68603-42-9			10.00000		0.00004
			Diethanolamine	111-42-2			5.00000		0.00002
							1.00000		0.00000
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 Chemical(s)	Listed Above	See Trade Name(s) List							
			Non-Hazardous substances	Proprietary			85.00000		0.02539
			Non-Hazardous substances	Proprietary			80.00000		0.01443
			Petroleum Distillate	64742-47-8			20.00000		0.01082
			Citric acid	77-92-9			5.00000		0.00749
			2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)	37971-36-1			5.00000		0.00749
			Alcohols, C12-16, ethoxylated	68551-12-2			2.00000		0.00108
			Oleic Acid Diethanolamide	93-83-4			2.00000		0.00108
			Ammonium chloride ((NH4)Cl)	12125-02-9			1.00000		0.00054
			Quaternary Ammonium Compounds	68424-85-1			3.00000		0.00054
			Didecyl dimethyl ammonium chloride	7173-51-5			3.00000		0.00054
			Ethanol	64-17-5			1.50000		0.00027
			Methanol	67-56-1			10.00000		0.00004
			2-Ethylhexanol	104-76-7			10.00000		0.00004
			Cocamide Diethanolamine	68603-42-9			5.00000		0.00002
			Diethanolamine	111-42-2			1.00000		0.00000

* 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(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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NOTE:
 NO WATER WELLS WERE FOUND WITHIN
 250' OF THE CENTER OF WELL PAD.
 NO DWELLINGS WERE FOUND WITHIN
 625' OF THE CENTER OF WELL PAD.

FILE #: NNE14
 DRAWING #: 2970
 SCALE: PLAT: 1" = 2000'
 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: [Signature]
 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

DATE: JULY 10, 2020
 OPERATOR'S WELL #: McCLELLAN 5H AS-DRILLED
 API WELL #: 47 61 01819
 STATE COUNTY PERMIT
 AS-BUILT ELEVATION: 1,411.7'

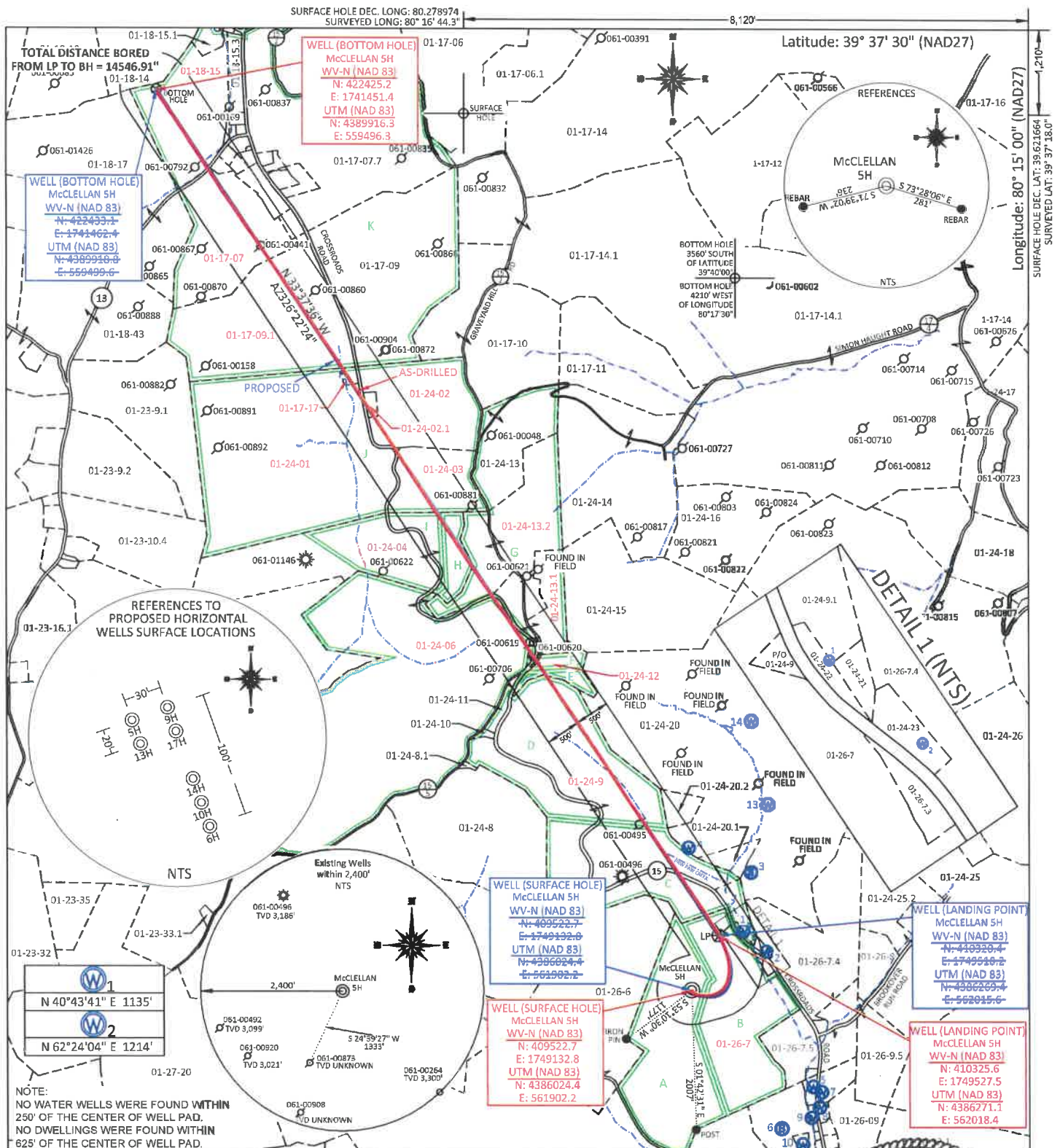
Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: UPPER MONONGAHELA
 COUNTY/DISTRICT: MONONGALIA / BATTELLE
 SURFACE OWNER: ALYCEMARIE MCCLELLAN & MICHELLE D. MOORE
 OIL & GAS ROYALTY OWNER: Barbara June Sutton, et al
 LEASE NUMBERS: _____

QUADRANGLE: MANNINGTON
 ACREAGE: 1044.18 +/-
 ACREAGE: 129.4 +/-

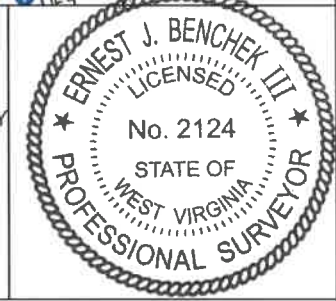
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: MARCELLUS
 ESTIMATED DEPTH: TVD: 8,076' TMD: 23,292'
 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
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