

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

RECEIVED  
Office of Oil and Gas

DEC 06 2021

WV Department of  
Environmental Protection

API 47 - 061 - 01842 County Monongalia District Clay  
Quad Blacksville, WV Pad Name Lemley Field/Pool Name \_\_\_\_\_  
Farm name Clarence W. Jr. & Charlotte E. Lemley Well Number 3H  
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 4391580.4 Easting 573975.8  
Landing Point of Curve Northing 4391496.2 Easting 573707.2  
Bottom Hole Northing 4393790.3 Easting 571913.1

Elevation (ft) 1,539' 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)

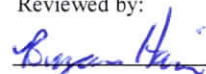
SYNTHETIC BASED MUD FOR HORIZONTAL SECTION; BIO-BASE 365, CALCIUM CHLORIDE POWDER, G-Seal Plus, HRP, Lime, M-I WATE (BARITE), M-I-X II MEDIUM,  
MEGADRIL P SYSTEM, MEGADRIL P SYSTEM RENTAL, MEGAMUL, SAFE-CARB 250, VERSATHIN HF, VERSAWET, VG-PLUS, VINSEAL MEDIUM, WALNUT NUT PLUG MEDIUM

Date permit issued 5/31/2019 Date drilling commenced 12/23/2020 Date drilling ceased 3/21/2021  
Date completion activities began 6/14/2021 Date completion activities ceased 7/14/2021  
Verbal plugging (Y/N) 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 440', 1,060' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 2,140' Void(s) encountered (Y/N) depths Y, 1,059'  
Coal depth(s) ft 500', 630', 740', 1,060' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by:

  
01/21/2022

API 47-061 - 01842 Farm name Clarence W. Jr. & Charlotte E. Lemley Well number 3H

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"	40'	N		NA	Y
Surface	22"	18-5/8"	1,125'	N	87.5	NA	Y, 5 bbl
Coal	17-1/2"	13-3/8"	1,477'	N	54.5	NA	Y, 1 bbl
Intermediate 1	12-1/4"	9-5/8"	2,552'	N	36	NA	Y, 19 bbl
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	18,318'	N	20	NA	Y
Tubing							
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	4500 psi ready mix	36				CTS	48
Surface	Class A	1,513	15.6	1.17	1,532	CTS	8
Coal	Class A	1,056	15.6	1.18	1,246	CTS	8
Intermediate 1	Class A	861	15.6	1.18	1,016	CTS	8
Intermediate 2							
Intermediate 3							
Production	50:50 Poz	3,325	14.5	1.16	3,847	2,052'	48
Tubing							

Drillers TD (ft) 18,349' Loggers TD (ft) 18,319'  
 Deepest formation penetrated Marcellus Plug back to (ft) NA  
 Plug back procedure NA

Kick off depth (ft) 6,590'

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

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_

API 47- 061 - 01842 Farm name Clarence W. Jr. & Charlotte E. Lemley Well number 3H

PERFORATION RECORD

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

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)
	See	Attached						

Please insert additional pages as applicable.

01/21/2022

API 47- 061 - 01842 Farm name Clarence W. Jr. & Charlotte E. Lemley Well number 3H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>8,392</u>	<u>TVD</u>	<u>18,349</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 2901 psi Bottom Hole 4501 psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 2764 mcfpd Oil \_\_\_\_\_ bpd NGL \_\_\_\_\_ bpd Water \_\_\_\_\_ bpd GAS MEASURED BY  Estimated  Orifice  Pilot

<u>LITHOLOGY/ FORMATION</u>	<u>TOP</u>		<u>BOTTOM</u>		<u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H<sub>2</sub>S, ETC)</u>
	<u>DEPTH IN FT NAME TVD</u>	<u>DEPTH IN FT TVD</u>	<u>DEPTH IN FT MD</u>	<u>DEPTH IN FT MD</u>	

<u>See attached</u>	<u>0</u>		<u>0</u>		

Please insert additional pages as applicable.

Drilling Contractor Patterson UTI  
Address 4000 Town Center Blvd, Suite 240 City Canonsburg State PA Zip 15317

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

Cementing Company Lightening Energy Services  
Address 104 Heliport Loop Rd. City Bridgeport State WV Zip 26330

Stimulating Company US Well Services  
Address 533 Industrial Park Drive City Jane Lew State WV Zip 26378

Please insert additional pages as applicable.

Completed by Hollie Medley Telephone 304-212-0422  
Signature Hollie Medley Title Regulatory Manager Date 11/23/21

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

01/21/2022

### Lemley 3H 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	6/15/2021	5,381	7,630	8,626	90	160	6,662	306,140	407
2	6/15/2021	6,045	6,469	9,167	90	101	9,865	469,200	404
3	6/15/2021	5,560	5,313	9,090	90	5	9,385	461,760	394
4	6/16/2021	5,647	7,150	9,190	90	16	9,498	463,560	393
5	6/16/2021	5,550	7,393	9,250	90	21	9,431	468,980	404
6	6/16/2021	5,265	7,118	9,198	90	25	9,444	464,140	385
7	6/16/2021	7,001	6,145	9,291	87	10	9,750	465,080	386
8	6/17/2021	6,296	6,957	9,141	87	34	9,397	448,840	372
9	6/17/2021	6,296	7,066	9,286	90	25	9,538	467,900	372
10	6/17/2021	6,322	6,861	8,577	84	14	9,077	445,560	367
11	6/18/2021	6,372	7,026	8,752	84	17	9,500	451,320	365
12	6/18/2021	6,049	7,161	9,218	90	9	9,073	448,280	359
13	6/18/2021	6,413	6,715	8,965	88	16	9,302	440,520	350
14	6/19/2021	6,454	7,040	8,967	88	15	9,335	451,620	352
15	6/19/2021	5,805	6,862	9,053	90	30	9,348	451,040	347
16	6/19/2021	5,312	6,939	8,911	90	5	9,213	444,100	342
17	6/19/2021	6,384	7,653	8,819	90	14	9,253	450,760	338
18	6/20/2021	6,321	6,987	8,822	90	16	9,163	440,380	333
19	6/20/2021	6,141	5,368	8,843	90	10	9,667	448,140	328
20	6/20/2021	5,119	6,585	8,597	90	17	9,271	447,440	326
21	6/21/2021	6,250	7,089	8,807	94	23	9,316	449,120	322
22	6/21/2021	5,969	7,399	8,669	90	21	10,147	442,560	315
23	6/22/2021	6,030	6,937	8,432	93	13	8,359	447,780	315
24	6/22/2021	5,127	7,475	8,533	90	15	9,254	446,600	307
25	6/22/2021	5,700	7,249	8,619	95	9	8,776	445,560	303
26	6/23/2021	5,613	7,186	8,602	95	27	9,280	451,020	298
27	6/23/2021	6,092	7,060	8,635	95	32	8,814	434,060	294
28	6/23/2021	6,074	6,987	8,765	95	13	8,526	446,302	292
29	6/24/2021	5,435	7,037	8,610	94	10	7,284	400,980	280
30	6/24/2021	6,109	6,879	8,425	95	20	8,821	453,580	276
31	6/24/2021	5,551	7,356	8,658	95	15	9,431	450,460	276
32	6/25/2021	6,194	7,653	8,438	95	68	9,278	450,000	272
33	6/25/2021	6,029	8,796	8,478	95	64	9,234	451,400	272
34	6/26/2021	5,687	7,258	8,480	95	15	9,127	445,380	267
35	6/26/2021	6,295	7,973	8,402	95	13	9,262	447,800	263
36	6/27/2021	6,072	7,592	7,788	83	12	9,035	448,480	253
37	6/27/2021	5,545	7,800	8,190	95	13	9,303	447,680	246
38	6/28/2021	5,058	7,343	8,146	95	14	9,115	443,340	249
39	6/28/2021	5,301	8,017	8,409	95	15	8,768	421,200	287
40	6/28/2021	5,314	8,175	8,527	95	10	9,198	449,440	233
41	6/29/2021	5,282	8,135	8,322	95	38	9,076	438,600	238
42	6/29/2021	5,498	7,287	8,114	95	11	9,190	448,880	295
43	6/30/2021	5,956	7,139	7,888	95	21	9,090	445,080	226
44	7/1/2021	5,346	8,200	7,922	95	36	9,032	444,100	218
45	7/12/2021	5,879	7,696	8,110	84	16	9,187	447,900	215
46	7/12/2021	5,748	7,304	7,723	93	10	9,056	442,520	206
47	7/12/2021	5,816	7,607	8,070	88	25	9,228	445,820	206
48	7/13/2021	5,792	7,338	7,738	90	14	8,340	402,560	198

01/21/2022

### Lemley 3H Performance Summary

Stage Number	Report Date	Cluster 5 Bottom TD	Cluster 1 Top TD	Total Shots
1	6/15/2021	18,206	0	0
2	6/15/2021	18,007	18,162	40
3	6/15/2021	17,810	17,966	40
4	6/16/2021	17,613	17,769	40
5	6/16/2021	17,416	17,572	40
6	6/16/2021	17,220	17,375	40
7	6/16/2021	17,023	17,178	40
8	6/17/2021	16,826	16,981	40
9	6/17/2021	16,629	16,784	40
10	6/17/2021	16,432	16,588	40
11	6/18/2021	16,235	16,391	40
12	6/18/2021	16,038	16,194	40
13	6/18/2021	15,842	15,997	40
14	6/19/2021	15,645	15,800	40
15	6/19/2021	15,448	15,603	40
16	6/19/2021	15,251	15,407	40
17	6/19/2021	15,054	15,210	40
18	6/20/2021	14,857	15,013	40
19	6/20/2021	14,661	14,816	40
20	6/20/2021	14,464	14,619	40
21	6/21/2021	14,267	14,422	40
22	6/21/2021	14,070	14,225	40
23	6/22/2021	13,873	14,029	40
24	6/22/2021	13,676	13,832	40
25	6/22/2021	13,479	13,635	40
26	6/23/2021	13,283	13,438	40
27	6/23/2021	13,086	13,241	40
28	6/23/2021	12,889	13,065	40
29	6/24/2021	12,692	12,847	40
30	6/24/2021	12,495	12,651	40
31	6/24/2021	12,298	12,454	40
32	6/25/2021	12,101	12,257	40
33	6/25/2021	11,905	12,060	40
34	6/26/2021	11,708	11,863	40
35	6/26/2021	11,511	11,666	40
36	6/27/2021	11,314	11,470	40
37	6/27/2021	11,117	11,273	40
38	6/28/2021	10,920	11,076	40
39	6/28/2021	10,723	10,879	40
40	6/28/2021	10,527	10,682	40
41	6/29/2021	10,330	10,485	40
42	6/29/2021	10,133	10,288	40
43	6/30/2021	9,936	10,092	40
44	7/1/2021	9,739	9,895	40
45	7/12/2021	9,542	9,698	40
46	7/12/2021	9,346	9,501	40
47	7/12/2021	9,149	9,304	40
48	7/13/2021	8,951	9,107	40

01/21/2022

Lemley Completion 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	180	Sand/silt
silt/red shale	180	390	silt/red shale
siltstone/sandstone/limestone	390	440	siltstone/sandstone/limestone
limestone/siltstone/sandstone	440	500	limestone/siltstone/sandstone
coal	500	510	coal
siltstone/limestone/shale	510	630	siltstone/limestone/shale
coal	630	640	coal
siltstone/sandstone	640	740	siltstone/sandstone
coal	740	750	coal
sandstone/siltstone/limestone	750	1060	sandstone/siltstone/limestone
coal-Pittsburgh	1060	1070	coal-Pittsburgh
sandstone/limestone	1070	1190	sandstone/limestone
red shale/siltstone	1190	1480	red shale/siltstone
Limestone/siltstone	1480	1730	Limestone/siltstone
sandstone	1730	1860	sandstone
sandstone/siltstone/red shale	1860	2050	sandstone/siltstone/red shale
siltstone/sandstone	2050	2110	siltstone/sandstone
sandstone	2110	2140	sandstone
sandstone/siltstone/red shale	2140	2300	sandstone/siltstone/red shale
Big Lime	2300	2420	Big Lime
Big Injun Sandstone	2420	2520	Big Injun Sandstone
siltstone/sandstone	2520	2810	siltstone/sandstone
Berea Sandstone	2810	2820	Berea Sandstone
Upper Devonian Sands/silts	2820	3350	Upper Devonian Sands/silts
shale/siltstone	3350	7514	shale/siltstone
Middlesex shale/silt	7514	7737	Middlesex shale/silt
Burkett shale	7737	7918	Burkett shale
Geneseo shale	7918	7969	Geneseo shale
Tully Limestone	7969	8044	Tully Limestone
Hamilton shale	8044	8129	Hamilton shale
Marcellus shale	8129	TD	Marcellus shale



Ticket #: 0

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

Job Times				
	On Loc:	Job Start:	Job End:	Off Loc:
Date:	12/28/20	12/28/20	12/31/20	12/31/20
Time:	10:00AM	12:00PM	10:00am	12:00pm

Customer and Well Information					
Customer: NORTHEAST		Well Name:		Well #: 3H	Well Type: GAS
County:	State: WV	AFE #/API #:		PO #/Permit #:	Well Class:
Field:		Lease: LEMLEY	Rig Name/# : DECKER #8		
Wellbore Information					
Bit Size (Inches): 22	Well MD (ft):	Well TVD (ft): 1170	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): 40	
Casing/Liner/Tubing					
Size (Inches): 18 5/8	Weight (lb/ft): 87.5	Thread: BT	Grade:	Total Footage (ft): 1125	
Job					
Job Type: SURFACE		Connection to Well: PLUG CONTAINER		Top Plug: YES	
Lift Pressure (PSI): 313	Max Annulus Pressure (PSI):	Mix Water Temp (F°): 60		Bottom Plug: No	
Casing/Tubing Secured : YES	Pipe Rotated: No	Cement Return to Surface (bbl): 5 bbl	Top Job (bbl): 318 bbls		
Pipe Reciprocated : No	Circulation Lost: yes	Job Completed: yes	top out class A cement 1513 sks		





Event Summary					
Activity Description (Job Marker)	Dens PPG	Press PSI	Rate bpm	Total bbl	Time
ON LOCATION	0.00	0.00	0.00		11:00am
PSI TEST	0.00	1500.00	0.00		12:00pm
WATER SPACER	0.00		6.00	340.00	
GEL SPACER	0.00		6.00	25.00	
CEMENT	15.60		5.50	318.00	
START DISPLACEMENT	0.00		5.00	331.00	
BUMP PLUG	0.00				9:07PM
OFF LOCATION	0.00	0.00	0.00		

**Notes**  
 PUMP 340 BBLS H2O 25 GEL 10 H2O 45 BBL CEMENT AT TO MINE 50 % EX PUMP DISP 331 BBL BUMP plug floats held TOP out job class a cement PUMP 318 BBLS CEMENT TO SURFACE END JOB

<b>Customer or Authorized Representative:</b>	<b>Service Supervisor:</b>
	DANNY GUM
X	X



<b>Ticket #:</b>
0

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

Job Times				
	On Loc:	Job Start:	Job End:	Off Loc:
Date:	01/01/21			
Time:	11:00AM			

Customer and Well Information					
Customer:		Well Name:		Well #:	Well Type:
NORTHEAST				3H	GAS
County:	State:	AFE #/API #:	PO #/Permit #:	Well Class:	
	WV				
Field:		Lease:		Rig Name/# :	
		LEMLEY		DECKER #8	
Wellbore Information					
Bit Size (Inches):	Well MD (ft):	Well TVD (ft):	BHST (F°):	BHCT (F°):	Deviation (°):
17 1/2		1540			
Drilling Fluid Type:	Drilling Fluid Density (ppg):	Packer Depth (ft):	Treating Down:		
Previous Casing/Liner					
Size (Inches):	Weight (lb/ft):	Thread:	Grade:	Total Footage (ft):	
18 5/8				1125	
Casing/Liner/Tubing					
Size (Inches):	Weight (lb/ft):	Thread:	Grade:	Total Footage (ft):	
13 3/8	54.5	BT		1458	
Job					
Job Type:		Connection to Well:		Top Plug:	
Lift Pressure (PSI):	Max Annulus Pressure (PSI):	Mix Water Temp (F°):	Bottom Plug:		
		60	No		
Casing/Tubing Secured :		Pipe Rotated:	Cement Return to Surface (bbl):	Top Job (bbl):	
YES		No	15 BBLS		
Pipe Reciprocated :	Circulation Lost:	Job Completed:			
No	no	yes			



Event Summary					
Activity Description (Job Marker)	Dens PPG	Press PSI	Rate bpm	Total bbl	Time
ON LOCATION	0.00	0.00	0.00		
PSI TEST	0.00		0.00		
WATER SPACER	0.00		6.00	212.00	12:43:00 PM
GEL SPACER	0.00		6.00	25.00	
CEMENT	15.60		5.50	222.00	
START DISPLACEMENT	0.00		5.00	220.00	
BUMP PLUG	0.00				3:00PM
OFF LOCATION	0.00	0.00	0.00		

**Notes**  
 PUMP 212 H2O 25 GEL 10 H2O 222 BBLs CEMENT 220 BBLs DISP BUMP PLUG FLOATS HELD 15 BBLs CEMENT  
 BACK TO SURFACE

Customer or Authorized Representative:	Service Supervisor:
	DANNY GUM
X	X



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:
	01/04/21	01/04/21	01/04/21	
Time:	6:00PM	11:02 AM	1:20AM	2:30AM

Customer and Well Information					
Customer: NORTHEAST		Well Name: 3H		Well #:	Well Type: GAS
County:	State: WV	AFE #/API #:		PO #/Permit #:	Well Class:
Field:		Lease: LEMLEY		Rig Name/# : 8	
Wellbore Information					
Bit Size (Inches): 12 3/8	Well MD (ft):	Well TVD (ft): 2600	BHST (F°):	BHCT (F°):	Deviation (°):
Drilling Fluid Type:	Drilling Fluid Density (ppg):		Packer Depth (ft):	Treating Down:	
Previous Casing/Liner					
Size (Inches): 13	Weight (lb/ft): 54.5	Thread:	Grade:	Total Footage (ft): 1477	
Casing/Liner/Tubing					
Size (Inches): 9 5/8	Weight (lb/ft): 36	Thread: BD	Grade:	Total Footage (ft): 2552	
Job					
Job Type: SURFACE		Connection to Well: YES		Top Plug: YES	
Lift Pressure (PSI): 1292	Max Annulus Pressure (PSI):		Mix Water Temp (F°): 60	Bottom Plug: No	
Casing/Tubing Secured : YES		Pipe Rotated: No	Cement Return to Surface (bbl): 19	Top Job (bbl):	
Pipe Reciprocated : No	Circulation Lost: NO	Job Completed: yes	19 BBLS BACK TO SURFACE		

## Data Tracking Report for NORTHEAST

Prepared by **DANNY GUM**

### Job Summary

Contact	Date <b>January 03, 2021</b>
Email	Start Time <b>11:17:45 PM</b>
Phone	End Time <b>1:20:29 AM</b>
Well	Notes <b>PUMP 165 BBLS H2O 25 GEL 10 H2O 181 BBLS CEMENT 194 DISP BUMP PLUG FLOATS HELD 19 BBLS CEMENT BACK TO SURFACE CIT TEST FOR 15 MIN</b>
Stage	
State	
Formation	

### Job Details

<p><b>Pressure</b></p> <p>Breakdown</p> <p>Average</p> <p>Maximum</p> <p>Displacement</p> <p><b>Volume</b></p> <p>Load and Bkdn</p> <p>Treatment</p> <p>Pad</p> <p>Displ</p> <p>Total Volume</p> <p><b>Average Rates</b></p> <p>Treating</p> <p>Displ</p> <p>Overall</p>	<p><b>Chemicals</b></p> <p>Propel</p> <p>Chem1</p> <p>Chem2</p> <p><b>Shut-in Pressure</b></p> <p>Instant</p> <p>5-Min</p> <p>10-Min</p> <p>15-Min</p> <p><b>Hydraulic Horsepower</b></p> <p>Used</p>
--	---

### Event Log

Time									Description of Stage or Event

Cement Job Log



NexTier Completion Solutions  
3990 Rogerdale Rd., Houston, TX 77042  
(713)325-8000

Customer:	NORTHEAST NATURAL ENERGY LLC	Date:	28-Mar-21	Serv. Supervisor:	Anthony Barbara
Cust. Rep.:		Ticket #:	BPA-2103-0048	Serv. Center:	Black Lick - 1571
Well Name:	Lemley 3H	API Well #:	47-061-01842	County:	Monongalia State: WV
Well Type:		Rig:	Patterson 277	Type of Job:	CM-PROD. CASING

Materials Furnished by NexTier

Plugs	Casing Hardware	Physical Slurry Properties							
		Sacks of Cement	Fluid Density (lb/gal)	Excess	Yield (cuft/sk)	Mix Water (gal/sk)	Fluid Volume (bbbl)	Fluid Volume (cuft)	Mix Water (bbbl)
13.5 lb/gal PureScrub Spacer w/Surfactant	+15.0 PPB NAC-111+7.0 PPB NFP-702+1.0 GPB NSU-887L	100	13.5		5.64	26.34	80.00	563.98	63
14.5 lb/gal Cement	50 % NCM-910+50 % NPZ-010 +0.2 % NFP-702+0.15 % NAS-504+0.2 % NRT-213+0.15 % NFL-549+0.1 % NTC-405	3325	14.5		1.16	4.90	685.29	3,847.89	388
Fresh Water Displacement			8.33			-	404.88	-	
0						-		-	
						-		-	
						-		-	
						-		-	
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						-		-	
						-		-	

Displacement Chemicals:

OPEN HOLE DATA						TUBULAR DATA						
8.75 in. O.H. 2,568 to 7,364 ft			5.5 in. 20#, ( 0 to 18,260 ft)			SIZE WEIGHT	THRD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)
8.5 in. O.H. 7,364 to 18,260 ft						5.5" 20#	BTC	18321	P-110	4.778	12640	11080
Ambient Tmp.	Bulk Tmp.	Slurry 1 Tmp.	Slurry 2 Tmp.	Slurry 3 Tmp.	Slurry 4 Tmp.							
52.0 °F		66.4 °F	77.0 °F									

PREVIOUS CASING DATA		PERFORATED INTERVAL DATA				CASING EQUIPMENT DEPTHS			
9.625 in. 36# ( 0 to 2,568 ft)		TOP	BTM	SPF	SIZE	SHOE	FLOAT	STAGE	ACP
						18321	18206		

WELL FLUID			DISPLACEMENT FLUID			DIFF PRESS	CSG LIFT	MAX PRESS	Mix H2O Chlorides (ppm)	Mix H2O pH	Mix H2O Temp	WATER ON LOC (bbl)
TYPE	DENSITY	VOLUME	TYPE	DENSITY		(psi)	(psi)	(psi)				
Oil Based	12.4 ppg	405 bbl	H2O	8.3 ppg		2562	13454	7000	,200	8	60.1 °F	800
Bumped Plug	Final Differential (psi)	Floats Held (Y/N)	PSI Left on Casing	Cement to Surface (bbl)	Top of Cement (ft)	Full Circ. During Job (Y/N)	Max Pump Pressure (psi)	Casing Rotation	Additional Hrs Charged (hrs)	Casing Reciprocation	Rathole Length (ft)	
Yes	4,000.00	Y			2,052	Yes	3,900.00	No		No	28	

Comments/Additional Details:  
Truck had issue with power end and desity was off by .5#. Truck rdesometer displaced 13.1# for Spacer when scaled it weighed 13.5#. Cement scaled 14.1# but weighed 14.5#

	<p><i>Anthony Barbara</i>      28-Mar-21</p> <p>Service Supervisor      Date</p>
--	--

01/21/2022

Cement Job Log



<b>Customer:</b>	NORTHEAST NATURAL ENERGY LLC		<b>Date:</b>	28-Mar-21		<b>Serv. Supervisor:</b>	Anthony Barbara	
<b>Cust. Rep.:</b>			<b>Ticket #:</b>	BPA-2103-0046		<b>Serv. Center:</b>	Black Lick - 1571	
<b>Well Name:</b>	Lemley 3H	<b>RTS Date:</b>	28-Mar-2021	<b>API Well #:</b>	47-061-01842	<b>County:</b>	Monongalia	<b>State:</b> WV
<b>Well Type:</b>		<b>RTS Time:</b>	5:20 AM	<b>Rig:</b>	Patterson 277	<b>Type of Job:</b>	CM-PROD. CASING	

<b>Left Yard:</b>	28-Mar-21	<b>Time:</b>	2:30 PM	<b>Left Loc.:</b>	28-Mar-21	<b>Time:</b>	2:30 PM	<b>Start Pump:</b>	28-Mar-21	<b>Time:</b>	8:03 AM
<b>Arrived Loc.:</b>	28-Mar-21	<b>Time:</b>	6:20 AM	<b>Returned Yd.:</b>	28-Mar-21	<b>Time:</b>	6:00 PM	<b>End Pump:</b>	28-Mar-21	<b>Time:</b>	12:22 PM

TIME	Rate	Csg. Press.	Tag. Press.	Ann. Press.	Stg. Vol.	Cum. Vol.	Stage Num.	Stage Details
	(bbl/min)	(psi)	(psi)	(psi)	(bbl)	(bbl)	Stage #	
2:50 AM								Left Yard or Current Location
5:20 AM								ARRIVE ON LOCATION
5:20 AM							1	Arrive on Location
5:30 AM							1	Pre Rig up meeting Rig up to well
5:45 AM							1	Safety Meeting with Rig Crew and Company man
7:54 AM							1	Load Bottom plug
8:03 AM	2.5	660			5.0 bbl	5.0 bbl	1	Pump Fresh to Load Lines and pump bottom plug way
8:07 AM							1	Load Top Plug
8:11 AM		6345			3.0 bbl	8.0 bbl	1	Pressure Test
8:23 AM	5	1200			80.0 bbl	88.0 bbl	1	Spacer @ 13.5# Verified with Scales. Truck displaced 13.1# PPG.
8:49 AM	7.5	1850			687.0 bbl	775.0 bbl	1	Pump Cement @ 14.5# Verified with Scales. Truck displaced 14.1# PPG
9:42 AM	6.8	1285					1	Check Cement @ 340bbbls
10:41 AM							1	Wash and Pump Lines
10:51 AM	3	250			1.0 bbl	776.0 bbl	1	Drop Top plug
10:55 AM	6.5	1320			19.0 bbl	795.0 bbl	1	Rate and pressure @ 20
11:00 AM	6.5	1663			30.0 bbl	825.0 bbl	1	Rate and pressure @ 50
11:08 AM	8	2950			50.0 bbl	875.0 bbl	1	Rate and Pressure @ 100
11:15 AM	8	3240			50.0 bbl	925.0 bbl	1	Rate and Pressure @ 150
11:25 AM	5	3580			50.0 bbl	975.0 bbl	1	Rate and Pressure @ 200
11:31 AM	4.6	3460			50.0 bbl	1025.0 bbl	1	Rate and Pressure @ 250 issue with power end had to slow
11:49 AM	4	3600			50.0 bbl	1075.0 bbl	1	Rate and Pressure @ 300
12:02 PM	4	3710			50.0 bbl	1125.0 bbl	1	Rate and Pressure @ 350
12:10 PM	4	3800			30.0 bbl	1155.0 bbl	1	Rate and Pressure @ 380
12:13 PM	4	3850			10.0 bbl	1165.0 bbl	1	Rate and Pressure @ 390
12:15 PM	4	4000			10.0 bbl	1175.0 bbl	1	Rate dn Pressure @ 400
12:16 PM		4950			5.0 bbl	1180.0 bbl	1	Landed Plug @ 405 traces of spacer returned.
12:20 PM							1	Wash up stack for rig
12:45 PM							1	Wash up Pump Truck
1:10 PM							1	Rig down
2:30 PM							1	Leave Location

01/21/2022

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/15/2021
Job End Date:	7/13/2021
State:	West Virginia
County:	Monongalia
API Number:	47-061-01842-00-00
Operator Name:	Northeast Natural Energy LLC
Well Name and Number:	Lemley 3H
Latitude:	39.67084200
Longitude:	-80.13749600
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	8,392
Total Base Water Volume (gal):	18,737,250
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	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	87.28628	
Sand	U.S. Well Services	Proppant					
			Crystalline Silica, quartz	14808-60-7	100.00000	11.91027	
HCL Acid (5% to 7.5%)	U.S. Well Services	Bulk Acid					
			Water	7732-18-5	95.00000	0.63664	
			Hydrogen Chloride	7647-01-0	7.50000	0.05836	
Clearal 268	U.S. Well Services	Anti-Bacterial Agent					
			Non-hazardous substances	Proprietary	90.00000	0.03030	
			Glutaraldehyde	111-30-8	20.00000	0.00714	
			Alkyl dimethyl benzyl ammonium chloride	68391-01-5	3.00000	0.00101	
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00101	
StimSTREAM SC-405	U.S. Well Services	Scale Inhibitor					
			Non-hazardous substances	Proprietary	70.00000	0.01821	
			Citric acid	77-92-9	10.00000	0.00260	
			2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)	37971-36-1	10.00000	0.00260	



			Diethylenetriamine penta (methylene phosphonic acid) (DTPMP)	15827-60-8	10.00000	0.00260
StimSTREAM FR 9800	U.S. Well Services	Friction Reducer				
			Butene, homopolymer	9003-29-6	25.00000	0.01046
			Alkanes, C16-20-iso-	90622-59-6	25.00000	0.01046
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00126
HCL Acid (12.6%-17.5%)	U.S. Well Services	Bulk Acid				
			Water	7732-18-5	87.40000	0.01220
			Hydrogen Chloride	7647-01-0	17.50000	0.00284
Alphastim C1500+	U.S. Well Services	Friction Reducer				
			Alkanes, C16-20-iso-	90622-59-6	25.00000	0.00119
			Butene, homopolymer	9003-29-6	25.00000	0.00119
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00014
Optiscale-solve phos	U.S. Well Services	Scale Inhibitor				
			Non-hazardous substances	Proprietary	70.00000	0.00175
			Citric acid	77-92-9	10.00000	0.00025
			Diethylenetriamine penta (methylene phosphonic acid) (DTPMP)	15827-60-8	10.00000	0.00025
			2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)	37971-36-1	10.00000	0.00025
CFR-H-2800	U.S. Well Services	Friction Reducer				
			Hydrotreated Light Distillates	64742-47-8	30.00000	0.00042
			Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	5.00000	0.00009
AI-303	U.S. Well Services	Acid Corrosion Inhibitor				
			Ethylene glycol	107-21-1	40.00000	0.00008
			Cinnamaldehyde	104-55-2	20.00000	0.00003
			Formic acid	64-18-6	20.00000	0.00003
			Butyl cellosolve	111-76-2	20.00000	0.00002
			Polyether	60828-78-6	10.00000	0.00001
			Acetophenone,thiourea,formaldehyde polymer	68527-49-1	5.00000	0.00001
FR-200C	U.S. Well Services	Friction Reducer				
			Distillates (petroleum), hydrotreated light	64742-47-8	45.00000	0.00004
			Poly(oxy-1,2-ethanediyl), a-tridecyl-w-hydroxy-, branched	69011-36-5	3.00000	0.00000
Alphainhibit	U.S. Well Services	Acid Corrosion Inhibitor				
			Ethylene glycol	107-21-1	40.00000	0.00001
			Butyl cellosolve	111-76-2	20.00000	0.00000
			Formic acid	64-18-6	20.00000	0.00000
			Cinnamaldehyde	104-55-2	20.00000	0.00000
			Polyether	60828-78-6	10.00000	0.00000
			Acetophenone,thiourea,formaldehyde polymer	68527-49-1	5.00000	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.

\* 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%

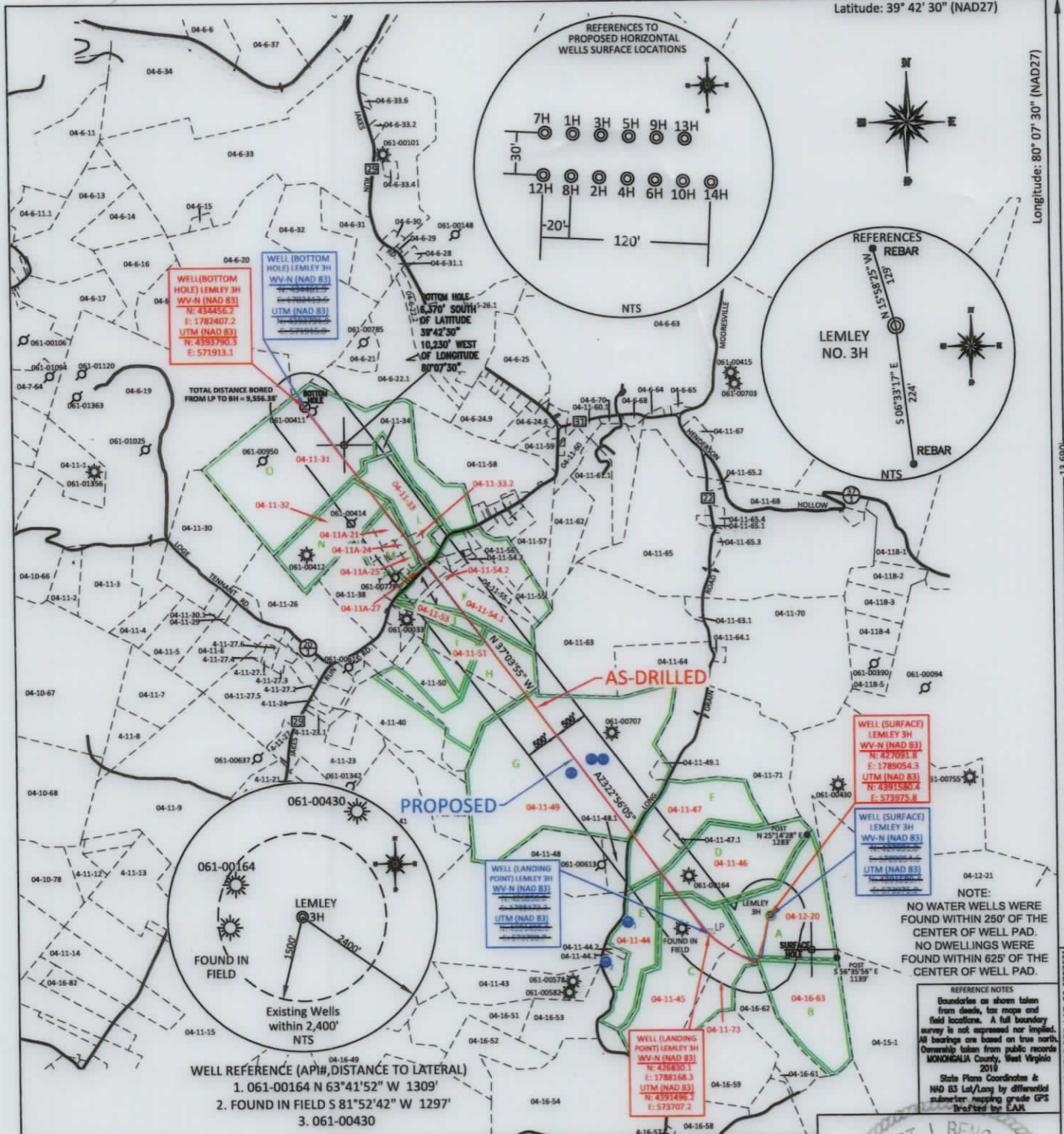
Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

SURFACE HOLE DEC. LONG: 80.137704°  
SURVEYED LONG: 80°08'15.7"

Latitude: 39° 42' 30" (NAD27)

Longitude: 80° 07' 30" (NAD27)



WELL (BOTTOM HOLE) LEMLEY 3H  
WV-N (NAD 83)  
N: 434456.2  
E: 1782407.2  
UTM (NAD 83)  
N: 4383798.3  
E: 571913.1

WELL (BOTTOM HOLE) LEMLEY 3H  
WV-N (NAD 83)  
UTM (NAD 83)

WELL (SURFACE) LEMLEY 3H  
WV-N (NAD 83)  
N: 427091.8  
E: 1789054.3  
UTM (NAD 83)  
N: 4391580.4  
E: 573975.8

WELL (SURFACE) LEMLEY 3H  
WV-N (NAD 83)  
UTM (NAD 83)

WELL (LANDING POINT) LEMLEY 3H  
WV-N (NAD 83)  
N: 426880.3  
E: 17881168.3  
UTM (NAD 83)  
N: 4391496.2  
E: 573707.2

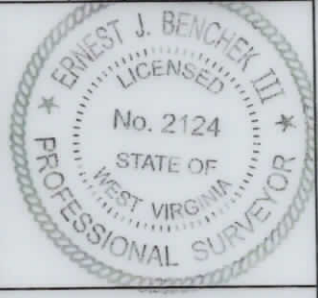
WELL REFERENCE (API#, DISTANCE TO LATERAL)  
1. 061-00164 N 63°41'52" W 1309'  
2. FOUND IN FIELD S 81°52'42" W 1297'  
3. 061-00430

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.

REFERENCE NOTES  
Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not approved nor implied. All bearings are based on true north. Ownership taken from public records MONONGALIA County, West Virginia 2018  
State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS Drafted by EAM

FILE #: NEE14  
DRAWING #: 2901  
SCALE: PLAT: 1" = 2000'  
TICK MARK: 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

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

WATERSHED: DUNKARD CREEK

COUNTY/DISTRICT: MONONGALIA / CLAY

SURFACE OWNER: CLARENCE W. LEMLEY JR. & CHARLOTTE E. LEMLEY

OIL & GAS ROYALTY OWNER: LEROY TENNANT, et al

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

WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC  
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200  
CITY: CHARLESTON STATE: WV ZIP CODE: 25301

DATE: DECEMBER 7, 2021

OPERATOR'S WELL #: LEMLEY 3H AS-DRILLED

API WELL #: 47 61 01842  
STATE COUNTY PERMIT

AS-BUILT  
ELEVATION: 1,549.47'

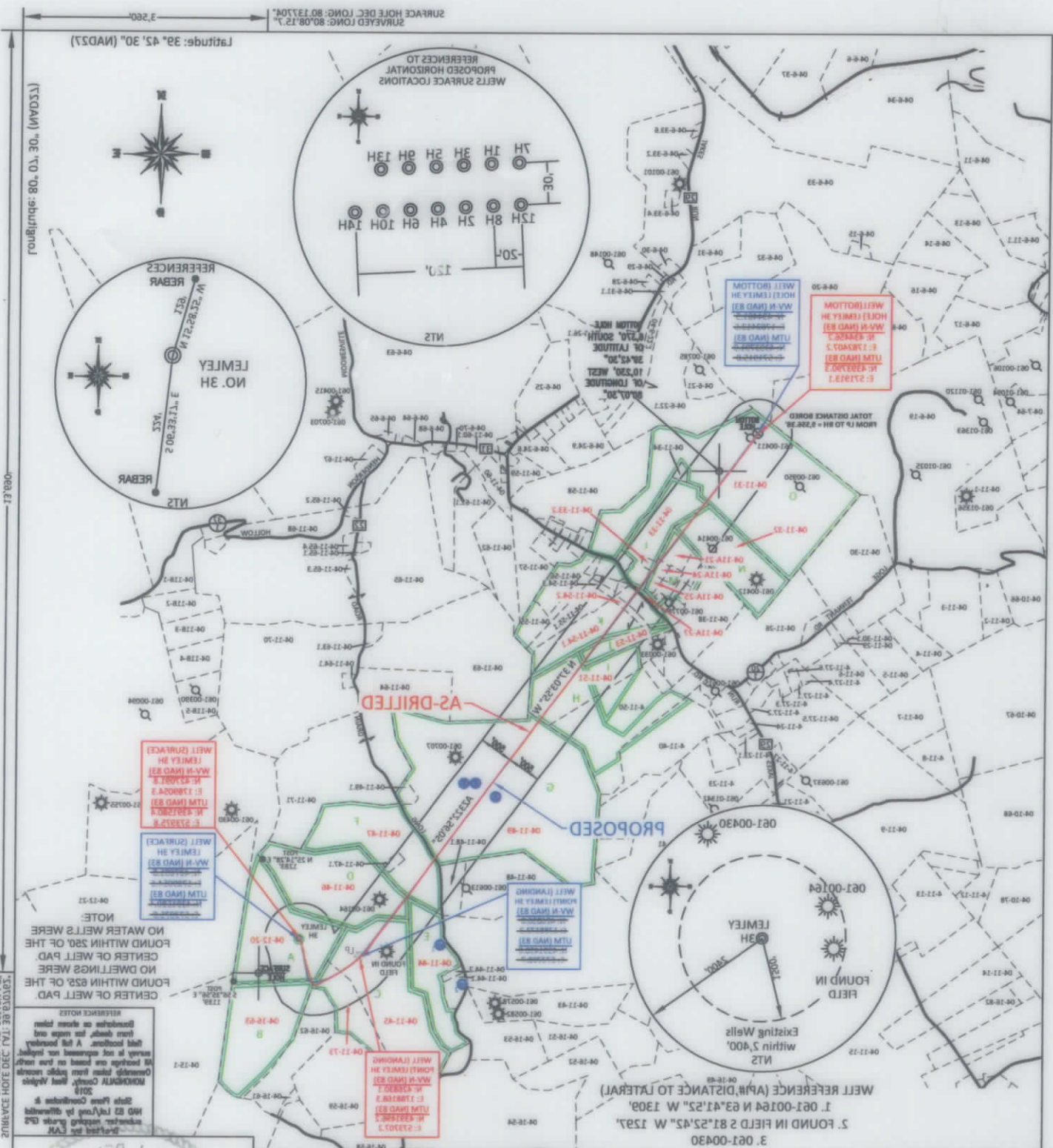
QUADRANGLE: BLACKSVILLE, WV

ACREAGE: 128.58 +/-  
ACREAGE: 630.102 +/-

01/21/2022

DRILLED DEPTH: TVD: 8,392' TMD: 18,349'

DESIGNATED AGENT: JOHN ADAMS  
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200  
CITY: CHARLESTON STATE: WV ZIP CODE: 25301



FILE #: NEE14  
 DRAWING #: 2801  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: 1/200  
 PROVEN SOURCE SUBMETER MAPPING OF ELEVATION: GRADE GPS

L.L.S. #2124 : Ernest J. Benchek III  
 Signed: \_\_\_\_\_  
 THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.  
 LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS

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

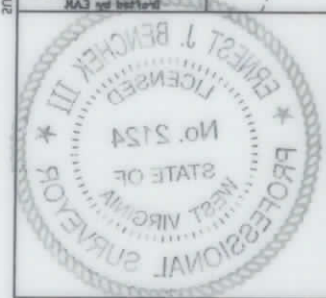
DRILLED DEPTH: TVD: 8,382' TMD: 18,349'  
 CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY):  
 PLUG OFF FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON   
 DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE

OIL & GAS ROYALTY OWNER: LEROY TENNANT, et al  
 SURFACE OWNER: CLARENCE W. LEMLEY JR. & CHARLOTTE E. LEMLEY  
 COUNTY/DISTRICT: MONONGALIA / CLAY  
 WATERSHED: DUNKARD CREEK  
 Well Type:  Oil  Waste Disposal  Production  Deep  
 Gas  Liquid Injection  Storage  Shallow

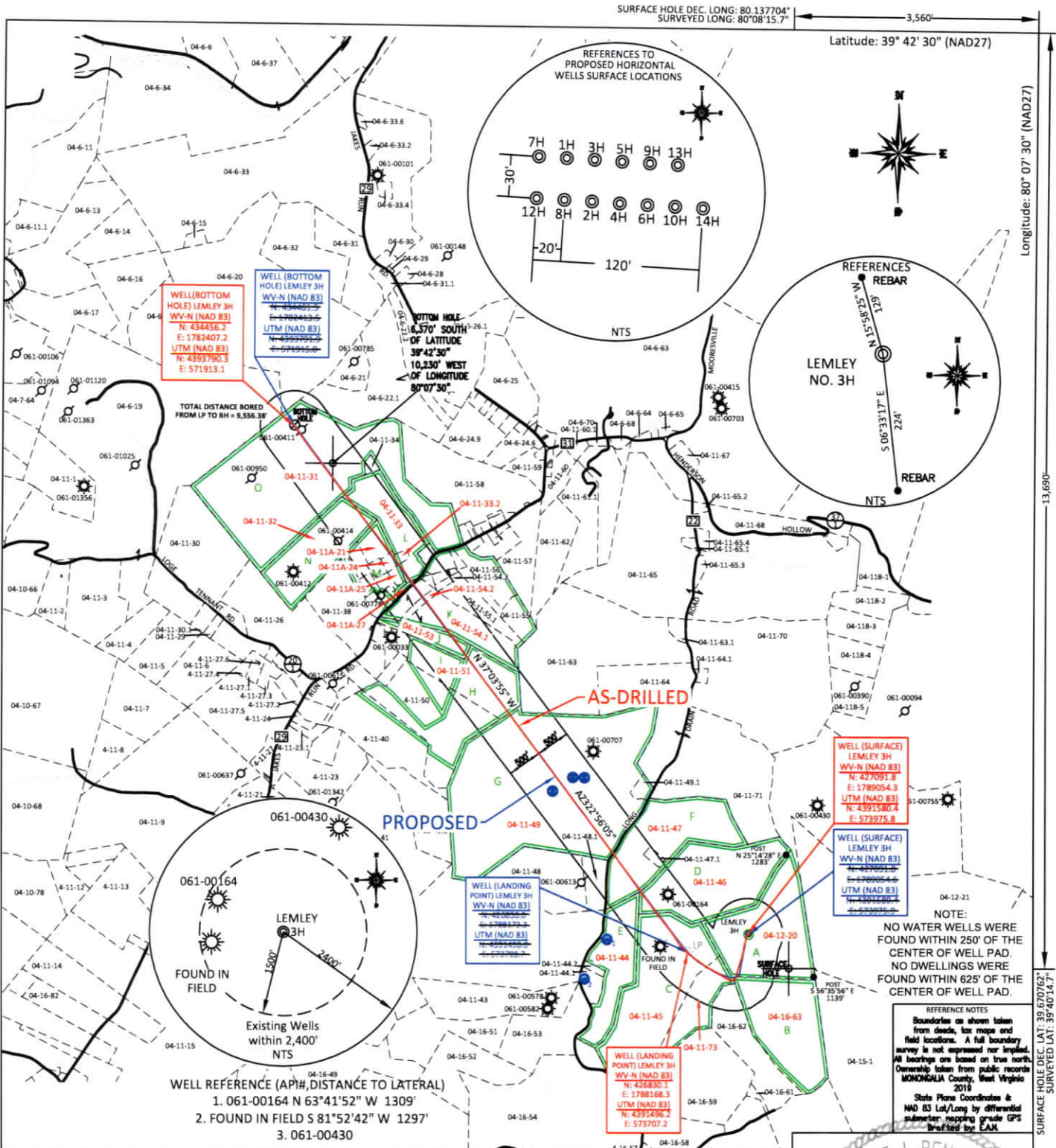
CHARLESTON, WV 25304  
 601 5TH STREET  
 OFFICE OF OIL & GAS  
 WADP  
 UNITED STATES TOPOGRAPHIC MAPS  
 (+) DENOTES LOCATION OF WELL ON

DATE: DECEMBER 7, 2021  
 OPERATOR'S WELL #: LEMLEY 3H AS-DRILLED  
 API WELL #: 47 STATE: 61 COUNTY: PERMIT 01842  
 AS-BUILT  
 ELEVATION: 1,549.47'

ACREAGE: 630.102 +/-  
 QUADRANGLE: BLACKVILLE, WV  
 ACREAGE: 128.58 +/-

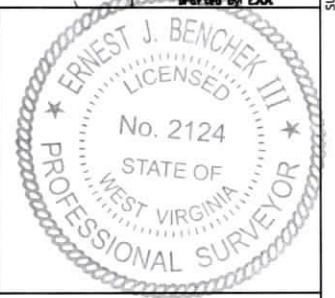


01/21/2022



FILE #: NEE14  
 DRAWING #: 2901  
 SCALE: PLAT: 1" = 2000'  
 TICK MARK: 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  
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Well Type:  Oil  Waste Diposal  Production  Deep  
 Gas  Liquid Injection  Storage  Shallow

WATERSHED: DUNKARD CREEK  
 COUNTY/DISTRICT: MONONGALIA / CLAY  
 SURFACE OWNER: CLARENCE W. LEMLEY JR. & CHARLOTTE E. LEMLEY  
 OIL & GAS ROYALTY OWNER: LEROY TENNANT, et al  
 LEASE NUMBERS: \_\_\_\_\_

DATE: DECEMBER 7, 2021  
 OPERATOR'S WELL #: LEMLEY 3H AS-DRILLED  
 API WELL #: 47 61 01842  
 STATE COUNTY PERMIT  
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01/21/2022

PROPERTY OWNER INDEX	
4-12-20	CLARENCE W. LEMLEY JR. & CHARLOTTE E. LEMLEY
4-16-63	WADE BOWSER
4-11-73	DONALD STULL ET AL
4-11-45	DONALD STULL ET AL
4-11-44	WILLIAM D. STATLER SR.
4-11-46	JAMES ALLEN JR. & CHANDRA DARLENE BENNETT
4-11-47	JAMES ALLEN JR. & CHANDRA DARLENE BENNETT
4-11-49	RONALD W. & PATRICIA A. STATLER
4-11-51	REBECCA J. MOORE (CUTLIP)
4-11-53	VIRGIL S. TENNANT
4-11-54.1	CHISLER BROTHERS CONTRACTING LLC.
4-11-54.2	CHISLER BROTHERS CONTRACTING LLC.
4-11A-27	GARY & FAYE THOMAS
4-11A-25	GARY & FAYE THOMAS
4-11A-24	GARY & FAYE THOMAS
4-11A-21	GARY & FAYE THOMAS
4-11-33.2	CHISLER BROTHERS CONTRACTING LLC.
4-11-33	CHISLER BROTHERS CONTRACTING LLC.
4-11-32	PHYLLIS & NELLIE JOHNSON
4-11-31	PHYLLIS & NELLIE JOHNSON

LEASE INDEX			
A	WV-061-003525-001	I	WV-061-003971-001
B	WV-061-002306-002	J	WV-061-004059-000
C	WV-061-002306-002	K	WV-061-003644-001
D	WV-061-002339-006	L	WV-061-003746-001
E	WV-061-001291-003	M	WV-061-003746-001
F	WV-061-002339-006	N	WV-061-003746-001
G	WV-061-002367-002	O	WV-061-003664-001
H	WV-061-003763-001		

01/21/2022

FILE #: NEE14

DRAWING #: 2901

SCALE: N/A

DATE: DECEMBER 7, 2021

OPERATOR'S WELL #: LEMLEY 3H AS-DRILLED

API WELL #: 47 61 01842  
STATE COUNTY PERMIT

01/21/2022

SCALE: <u>N/A</u> DRAWING #: <u>2901</u> FILE #: <u>NEE14</u>	DATE: <u>DECEMBER 7, 2021</u> OPERATOR'S WELL #: <u>LEMLEY 3H A2-DRILLED</u> API WELL #: <u>47</u> STATE COUNTY PERMIT <u>01845</u>
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LEASE INDEX		
A	WV-061-003252-001	I
B	WV-061-002306-002	J
C	WV-061-002306-002	K
D	WV-061-002339-006	L
E	WV-061-001291-003	M
F	WV-061-002339-006	N
G	WV-061-002367-002	O
H	WV-061-003263-001	

PROPERTY OWNER INDEX	
4-11-31	PHYLLIS & NELLIE JOHNSON
4-11-32	PHYLLIS & NELLIE JOHNSON
4-11-33	CHISLER BROTHERS CONTRACTING LLC.
4-11-33.2	CHISLER BROTHERS CONTRACTING LLC.
4-11A-21	GARY & FAYE THOMAS
4-11A-24	GARY & FAYE THOMAS
4-11A-25	GARY & FAYE THOMAS
4-11A-27	GARY & FAYE THOMAS
4-11-24.2	CHISLER BROTHERS CONTRACTING LLC.
4-11-24.1	CHISLER BROTHERS CONTRACTING LLC.
4-11-23	VIRGIL S. TENNANT
4-11-21	REBECCA J. MOORE (CUTLIP)
4-11-49	RONALD W. & PATRICIA A. STATLER
4-11-47	JAMES ALLEN JR. & CHANDRA DARLENE BENNETT
4-11-46	JAMES ALLEN JR. & CHANDRA DARLENE BENNETT
4-11-44	WILLIAM D. STATLER SR.
4-11-42	DONALD STULL ET AL
4-11-73	DONALD STULL ET AL
4-16-63	WADE BOWSER
4-12-20	CLARENCE W. LEMLEY JR. & CHARLOTTE E. LEMLEY

PROPERTY OWNER INDEX	
4-12-20	CLARENCE W. LEMLEY JR. & CHARLOTTE E. LEMLEY
4-16-63	WADE BOWSER
4-11-73	DONALD STULL ET AL
4-11-45	DONALD STULL ET AL
4-11-44	WILLIAM D. STATLER SR.
4-11-46	JAMES ALLEN JR. & CHANDRA DARLENE BENNETT
4-11-47	JAMES ALLEN JR. & CHANDRA DARLENE BENNETT
4-11-49	RONALD W. & PATRICIA A. STATLER
4-11-51	REBECCA J. MOORE (CUTLIP)
4-11-53	VIRGIL S. TENNANT
4-11-54.1	CHISLER BROTHERS CONTRACTING LLC.
4-11-54.2	CHISLER BROTHERS CONTRACTING LLC.
4-11A-27	GARY & FAYE THOMAS
4-11A-25	GARY & FAYE THOMAS
4-11A-24	GARY & FAYE THOMAS
4-11A-21	GARY & FAYE THOMAS
4-11-33.2	CHISLER BROTHERS CONTRACTING LLC.
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4-11-31	PHYLLIS & NELLIE JOHNSON

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