

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

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Office of Oil and Gas

DEC 06 2021

WV Department of
Environmental Protection

API 47 - 061 - 01844 County Monongalia District Clay
Quad Blacksville, WV Pad Name Lemley Field/Pool Name _____
Farm name Clarence W. Jr. & Charlotte E. Lemley Well Number 7H
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 4391580.7 Easting 573963.7
Landing Point of Curve Northing 4391163.6 Easting 573200.3
Bottom Hole Northing 4393092.8 Easting 571694.6

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 12/1/2020 Date drilling ceased 4/13/2021
Date completion activities began 6/14/2021 Date completion activities ceased 7/14/2021
Verbal plugging (Y/N) NA 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 N
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: [Signature]
01/21/2022

API 47-061 - 01844 Farm name Clarence W. Jr. & Charlotte E. Lemley Well number 7H

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	17-1/2"	13-3/8"	1,509'	N	54.5	NA	Y, 5 bbl
Coal							
Intermediate 1	12-1/4"	9-5/8"	2,600'	N	36	NA	Y, 19 bbl
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	17,333	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 ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	4500 psi ready mix	36				CTS	48
Surface	Class A	1,275	15.6	1.18	1,504	CTS	8
Coal							
Intermediate 1	Class A	870	15.6	1.18	1,027	CTS	8
Intermediate 2							
Intermediate 3							
Production	50:50 Poz	3,125	14.5	1.16	3,616	2,040'	48
Tubing							

Drillers TD (ft) 17,372' Loggers TD (ft) 17,342'

Deepest formation penetrated Marcellus Plug back to (ft) NA

Plug back procedure _____

Kick off depth (ft) 6,821'

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 _____

Lemley 7H Stimulation Summary

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	6/18/2021	5,930	6,812	8,781	86	405	6,501	300,120	385
2	6/18/2021	6,026	6,398	9,150	90	20	9,257	445,020	381
3	6/19/2021	5,725	6,169	8,519	84	30	9,342	450,500	377
4	6/19/2021	6,382	7,589	9,064	88	64	9,370	529,040	375
5	6/19/2021	5,394	6,844	9,064	90	10	9,115	445,860	369
6	6/19/2021	6,362	6,917	9,223	86	11	9,374	452,080	363
7	6/20/2021	5,875	7,104	9,188	81	10	10,187	452,860	304
8	6/20/2021	6,159	6,969	9,141	90	18	9,301	446,460	355
9	6/20/2021	5,834	7,186	9,291	89	17	9,411	447,780	353
10	6/21/2021	5,445	8,373	9,041	88	48	9,435	450,820	348
11	6/21/2021	5,440	7,421	9,048	90	5	9,408	446,160	341
12	6/22/2021	6,085	6,878	9,059	88	30	8,573	443,460	337
13	6/22/2021	6,191	6,447	8,817	90	25	9,142	447,420	342
14	6/22/2021	6,167	7,023	8,992	93	17	9,420	446,980	330
15	6/23/2021	6,397	6,729	9,085	93	7	8,552	444,920	324
16	6/23/2021	5,230	7,352	9,110	93	26	8,757	446,060	319
17	6/23/2021	6,319	6,946	9,068	94	24	8,707	444,100	311
18	6/24/2021	6,380	8,029	8,923	95	16	8,264	445,360	312
19	6/24/2021	5,262	6,764	8,740	95	24	8,481	460,580	302
20	6/24/2021	4,946	8,210	9,307	84	24	10,307	455,460	300
21	6/25/2021	6,262	7,123	8,736	93	32	9,876	449,920	293
22	6/25/2021	6,319	7,343	8,725	95	45	9,438	459,500	292
23	6/26/2021	5,790	6,946	8,728	95	16	9,070	445,500	288
24	6/26/2021	5,790	7,944	8,586	95	14	9,035	452,020	280
25	6/26/2021	6,210	6,750	8,563	95	25	9,167	451,020	285
26	6/27/2021	6,370	7,443	8,520	95	18	9,221	451,980	273
27	6/27/2021	8,834	8,125	8,735	78	59	8,959	445,640	155
28	6/28/2021	5,880	7,643	8,509	95	15	9,128	444,040	267
29	6/28/2021	6,203	7,476	8,629	95	18	9,535	452,100	261
30	6/28/2021	5,964	6,844	8,671	94	7	9,144	445,900	254
31	6/29/2021	6,394	7,478	8,546	95	10	9,282	446,240	252
32	6/30/2021	5,335	6,706	8,188	95	14	9,106	447,240	251
33	7/1/2021	5,409	6,693	8,352	95	71	9,186	445,580	247
34	7/11/2021	5,879	7,132	8,020	90	17	9,581	453,120	605
35	7/12/2021	5,038	7,156	8,289	89	13	9,120	448,040	230
36	7/12/2021	5,597	10	7,907	86	7	9,283	453,120	232
37	7/13/2021	5,847	7,249	8,022	90	9	9,069	448,550	2,222
38	7/13/2021	6,249	6,800	7,750	89	15	8,459	404,400	223
39	7/14/2021	5,747	6,885	7,790	90	17	5,977	299,740	392

Lemley 7H Perforation Summary

Stage Number	Report Date	Cluster 5 Bottom TD	Cluster 1 Top TD	Total Shots
1	6/18/2021	17,222	0	0
2	6/18/2021	17,023	17,179	40
3	6/19/2021	16,825	16,981	40
4	6/19/2021	16,627	16,783	40
5	6/19/2021	16,429	16,588	40
6	6/19/2021	16,231	16,388	40
7	6/20/2021	16,034	16,190	40
8	6/20/2021	15,836	15,992	40
9	6/20/2021	15,638	15,794	40
10	6/21/2021	15,440	15,596	40
11	6/21/2021	15,242	15,398	40
12	6/22/2021	15,044	15,201	40
13	6/22/2021	14,846	15,003	40
14	6/22/2021	16,648	14,805	40
15	6/23/2021	14,451	14,607	40
16	6/23/2021	14,253	14,409	40
17	6/23/2021	14,055	14,211	40
18	6/24/2021	13,857	14,013	40
19	6/24/2021	13,659	13,815	40
20	6/24/2021	13,461	13,618	40
21	6/25/2021	13,263	13,420	40
22	6/25/2021	13,066	13,222	40
23	6/26/2021	12,868	13,024	40
24	6/26/2021	12,670	12,826	40
25	6/26/2021	12,472	12,628	40
26	6/27/2021	12,274	12,430	40
27	6/27/2021	12,076	12,232	40
28	6/28/2021	11,878	12,035	40
29	6/28/2021	11,680	11,837	40
30	6/28/2021	11,483	11,639	40
31	6/29/2021	11,285	11,441	40
32	6/30/2021	11,087	11,243	40
33	7/1/2021	10,889	11,045	40
34	7/1/2021	10,691	10,847	40
35	7/12/2021	10,493	10,650	40
36	7/12/2021	10,295	10,452	40
37	7/13/2021	10,097	10,254	40
38	7/13/2021	9,900	10,056	40
39	7/14/2021	9,701	9,858	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				
Date:	On Loc:	Job Start:	Job End:	Off Loc:
	12/02/20		12/04/20	12/04/20
Time:	7:30PM		2:30AM	4:00AM

Customer and Well Information					
Customer: NORTHEAST		Well Name: 7H		Well #:	Well Type: GAS
County:	State: WV	AFE #/API #:	PO #/Permit #:	Well Class:	
Field:		Lease: LEMLEY		Rig Name/# : DECKER #8	
Wellbore Information					
Bit Size (Inches): 17 1/2	Well MD (ft):	Well TVD (ft): 1540	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): 13 3/8	Weight (lb/ft): 54.5	Thread: BT	Grade:	Total Footage (ft): 1509	
Job					
Job Type: SURFACE		Connection to Well: PLUG CONTAINER		Top Plug: YES	
Lift Pressure (PSI): 577	Max Annulus Pressure (PSI):		Mix Water Temp (F°):	Bottom Plug: No	
Casing/Tubing Secured : YES		Pipe Rotated: No	Cement Return to Surface (bbl): no	Top Job (bbl): 268 5BBL5 BACK	
Pipe Reciprocated : No	Circulation Lost: yes	Job Completed: yes			



Event Summary					
Activity Description (Job Marker)	Dens PPG	Press PSI	Rate bpm	Total bbl	Time
ON LOCATION	0.00	0.00	0.00		7:30PM
PSI TEST	0.00	1500.00	0.00		
WATER SPACER	0.00		6.00	217.00	
GEL SPACER	0.00		6.00	25.00	
CEMENT	15.60		5.50	262.00	
START DISPLACEMENT	0.00		5.00	225.40	
BUMP PLUG	0.00				
OFF LOCATION	0.00	0.00	0.00		

Notes
 PUMP 237 H2O 25 GEL 10 H2O 262 BBLS CEMENT 225.4 DISP bump plug FLOATS HELD TOP OUT JOB TOP OF CEMENT 1050 WE PEMP 268 BBLS 1275 SKS CLASS A CEMENT BACK TO SURFACE END JOB 2:30AM 12-4-20

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:
	12/06/20	12/06/20	12/06/20	
Time:	3:00PM	6:40PM		

Customer and Well Information					
Customer: NORTHEAST		Well Name: 7H		Well #:	
Well Type: GAS		Well Class:			
County:	State: WV	AFE #/API #:	PO #/Permit #:		
Field:	Lease: LEMLEY	Rig Name/# : 8			
Wellbore Information					
Bit Size (Inches): 12 3/8	Well MD (ft):	Well TVD (ft): 2640	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): 1509	
Casing/Liner/Tubing					
Size (Inches): 9 5/8	Weight (lb/ft): 36	Thread: BD	Grade:	Total Footage (ft): 2600.8	
Job					
Job Type: SURFACE		Connection to Well: YES		Top Plug: YES	
Lift Pressure (PSI): 1339	Max Annulus Pressure (PSI):	Mix Water Temp (F°): 57	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		



Event Summary					
Activity Description (Job Marker)	Dens PPG	Press PSI	Rate bpm	Total bbl	Time
ON LOCATION	0.00	0.00	0.00		3:00PM
PSI TEST	0.00	2500.00	0.00		6:40PM
WATER SPACER	0.00		6.00	175.00	
GEL SPACER	0.00		5.00	25.00	
CEMENT	15.60		7.00	183.00	
START DISPLACEMENT	0.00		8.00	198.00	
BUMP PLUG	0.00				9:00PM
OFF LOCATION	0.00	0.00	0.00		10:30PM
CTI TEST 2100 PSI FOR 15 MIN 9:15					

Notes
 PUMP 175 H2O 25 GEL 10 H2O 183 BBLs CEMENT 870 SKS @ 15.6 DISP 198 BUMP PLUG CTI TEST 2100 PSI FOR 15 MIN FLOATS HELD 19 BBLs CEMENT BACK TO SURFACE

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

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/18/2021
Job End Date:	7/14/2021
State:	West Virginia
County:	Monongalia
API Number:	47-061-01844-00-00
Operator Name:	Northeast Natural Energy LLC
Well Name and Number:	Lemley 7H
Latitude:	39.67084700
Longitude:	-80.13763800
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	8,367
Total Base Water Volume (gal):	15,100,986
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	87.30977	
Sand	U.S. Well Services	Proppant	Crystalline Silica, quartz	14808-60-7	100.00000	11.89936	
HCL Acid (5% to 7.5%)	U.S. Well Services	Bulk Acid	Water	7732-18-5	95.00000	0.64200	
			Hydrogen Chloride	7647-01-0	7.50000	0.05885	
Clearal 268	U.S. Well Services	Anti-Bacterial Agent	Non-hazardous substances	Proprietary	90.00000	0.02856	
			Glutaraldehyde	111-30-8	20.00000	0.00673	
			Alkyl dimethyl benzyl ammonium chloride	68391-01-5	3.00000	0.00095	
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00095	
StimSTREAM SC-405	U.S. Well Services	Scale Inhibitor	Non-hazardous substances	Proprietary	70.00000	0.01649	
			Diethylenetriamine penta (methylene phosphonic acid) (DTPMP)	15827-60-8	10.00000	0.00236	

			2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)	37971-36-1	10.00000	0.00236
			Citric acid	77-92-9	10.00000	0.00236
StimSTREAM FR 9800	U.S. Well Services	Friction Reducer				
			Alkanes, C16-20-iso-	90622-59-6	25.00000	0.00955
			Butene, homopolymer	9003-29-6	25.00000	0.00955
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00115
Optiscale-solve phos	U.S. Well Services	Scale Inhibitor				
			Non-hazardous substances	Proprietary	70.00000	0.00294
			Citric acid	77-92-9	10.00000	0.00042
			Diethylenetriamine penta (methylene phosphonic acid) (DTPMP)	15827-60-8	10.00000	0.00042
			2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)	37971-36-1	10.00000	0.00042
Alphastim C1500+	U.S. Well Services	Friction Reducer				
			Butene, homopolymer	9003-29-6	25.00000	0.00189
			Alkanes, C16-20-iso-	90622-59-6	25.00000	0.00189
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00023
CFR-H-2800	U.S. Well Services	Friction Reducer				
			Hydrotreated Light Distillates	64742-47-8	30.00000	0.00056
			Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	5.00000	0.00012
AI-303	U.S. Well Services	Acid Corrosion Inhibitor				
			Ethylene glycol	107-21-1	40.00000	0.00006
			Cinnamaldehyde	104-55-2	20.00000	0.00002
			Formic acid	64-18-6	20.00000	0.00002
			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
Alphainhibit	U.S. Well Services	Acid Corrosion Inhibitor				
			Ethylene glycol	107-21-1	40.00000	0.00001
			Cinnamaldehyde	104-55-2	20.00000	0.00000
			Butyl cellosolve	111-76-2	20.00000	0.00000
			Formic acid	64-18-6	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%

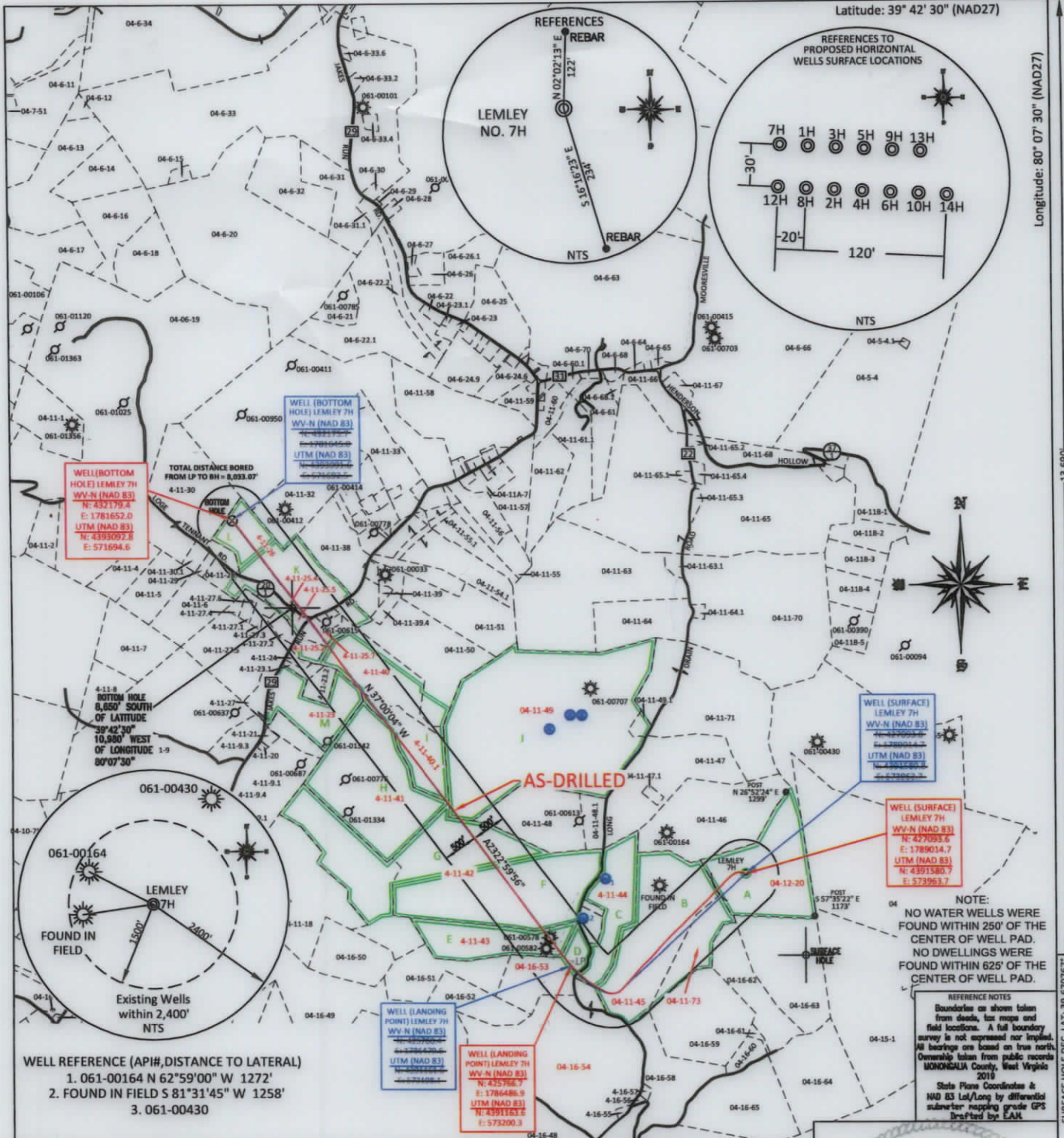
Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

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: 80.137846'
SURVEYED LONG: 80°08'16.2"

Latitude: 39° 42' 30" (NAD27)

Longitude: 80° 07' 30" (NAD27)



WELL (BOTTOM HOLE) LEMLEY 7H
WV-N (NAD 83)
N: 4321799.4
E: 1781652.0
UTM (NAD 83)
N: 4335092.8
E: 571694.6

WELL (BOTTOM HOLE) LEMLEY 7H
WV-N (NAD 83)
UTM (NAD 83)

WELL (SURFACE) LEMLEY 7H
WV-N (NAD 83)
UTM (NAD 83)
N: 4335092.8
E: 571694.6

WELL (SURFACE) LEMLEY 7H
WV-N (NAD 83)
UTM (NAD 83)
N: 4335092.8
E: 571694.6

WELL (LANDING POINT) LEMLEY 7H
WV-N (NAD 83)
UTM (NAD 83)
N: 4325766.7
E: 1786486.9
UTM (NAD 83)
N: 4331163.8
E: 573200.3

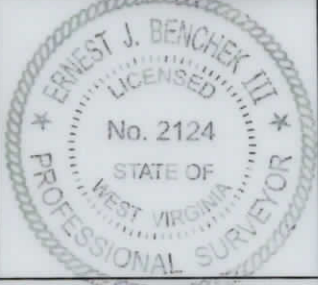
WELL REFERENCE (API#, DISTANCE TO LATERAL)
1. 061-00164 N 62°59'00" W 1272'
2. FOUND IN FIELD S 81°31'45" W 1258'
3. 061-00430

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 expressed nor implied. All bearings are based on true north. Ownership taken from public records MONONGALIA County, West Virginia 2019
State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS Drilled by EAH

FILE #: NEE14
DRAWING #: 2904
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:

DATE: DECEMBER 7, 2021

OPERATOR'S WELL #: LEMLEY 7H AS-DRILLED

API WELL #: 47 61 01844
STATE COUNTY PERMIT

AS-BUILT
ELEVATION: 1,549.47'

QUADRANGLE: BLACKSVILLE, WV

ACREAGE: 128.58 +/-

ACREAGE: 565.34 +/-

01/21/2022

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

DRILLED DEPTH: TVD: 8,372' TMD: 17,372'
DESIGNATED AGENT: JOHN ADAMS
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301

PROPERTY OWNER INDEX	
4-11-73	DONALD STULL ET AL
4-11-42	WILLIAM D. STATLER
4-12-20	CLARENCE W. LEMLEY JR. & CHARLOTTE E. LEMLEY
4-16-53	CONSOL MINING COMPANY
4-16-54	CNX LAND LLC
4-11-43	WILLIAM D. STATLER
4-11-44	WILLIAM D. STATLER SR.
4-11-45	DONALD STULL ET AL
4-11-49	RONALD W. & PATRICIA STATLER
4-11-41	STEPHEN J. & CYNTHIA A. BUSCH
4-11-40.1	MARK D. & AMBER RIGGLE
4-11-23	MARK D. & AMBER RIGGLE
4-11-40	JAMES O. & JANET I. JACKSON FAMILY IRREVOCABLE TRUST
4-11-25.7	SANDRA K. & RICHARD L. FRANCIS
4-11-25.2	JAMES O. & JANET I. JACKSON FAMILY IRREVOCABLE TRUST
4-11-25.5	IRA E. & GERALDINE L. VERNER
4-11-25.4	RONALD B. & DONNA JO AMMONS
4-11-26	RALPH T. VARNER

LEASE INDEX			
A	WV-061-003525-001	H	WV-061-004130-001
B	WV-061-001291-003	I	WV-061-003971-001
C	WV-061-004327-001	J	WV-061-002367-002
D	WV-061-005435-001	K	XTO PARTICIPATION AGREEMENT
E	WV-061-001139-001		
F	WV-061-002269-001	L	WV-061-004116-002
G	WV-061-003983-001	M	WV-061-004606-001

01/21/2022

FILE #: NEE14

DRAWING #: 2903

SCALE: N/A

DATE: DECEMBER 7, 2021

OPERATOR'S WELL #: LEMLEY 7H AS-DRILLED

API WELL #: 47 61 01844
STATE COUNTY PERMIT

01/21/2022

FILE #:	_____	DATE:	_____
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