

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

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WV Department of
Environmental Protection

API 47 - 061 - 02011 County Monongalia District Battelle
Quad Wadestown Pad Name ERP Field/Pool Name _____
Farm name Phoenix Energy Resources, LLC 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 4391785.0 Easting 562319.2
Landing Point of Curve Northing 4391896.1 Easting 562089.6
Bottom Hole Northing 4395417.3 Easting 559665.9

Elevation (ft) 1,338' 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, SOLTEX

Date permit issued 8/22/25 Date drilling commenced 11/6/25 Date drilling ceased 1/27/26
Date completion activities began 4/2/26 Date completion activities ceased 5/3/26
Verbal plugging (Y/N) _____ Date permission granted _____ Granted by _____

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

Freshwater depth(s) ft 1236' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 2523' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 665'-669', 734'-739', 1060'-1065', 1229'-1236' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed
Approved

Reviewed by:

[Signature]
08/28/2026
8-13-26

WR-35
Rev. 8/23/13

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API 47- 061 - 02011 Farm name Phoenix Energy Resources, LLC 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	32"	24"	100'	New	N/A	N/A	CTS
Surface	17.5"	13.375	1336'	New	J-55/54.5	576.3	Y/30 bbls
Coal							
Intermediate 1	12.25"	9.625	2650'	New	J-55/36	1374.6	Y/30 bbls
Intermediate 2							
Intermediate 3							
Production	8.5"	5.5	22520'	New	HP P110/23	NA	N
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	Class A	272	N/A	1.18	322	CTS	>72
Surface	Class A	1225	15.6	1.20	1470	CTS	8
Coal							
Intermediate 1	Class A	880	15.6	1.18	1038.4	CTS	8
Intermediate 2							
Intermediate 3							
Production	50:50 Class A: POZ	4090	14.5	1.19	4867.1	1862'	>72
Tubing							

Drillers TD (ft) 22548' Loggers TD (ft) 22520' RECEIVED
Deepest formation penetrated Marcellus Plug back to (ft) NA Office of Oil and Gas
Plug back procedure NA AUG 03 2026

Kick off depth (ft) 7385' WV Department of Environmental Protection

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: Shoe track and every 3rd joint to surface
Intermediate: Shoe track and every 3rd joint to surface
Production: Shoe track and every joint in the lateral to KOP, then every third joint 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 _____

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API 47- 061 - 02011 Farm name Phoenix Energy Resources, LLC Well number 3H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	See attached				
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Please insert additional pages as applicable.

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STIMULATION INFORMATION PER STAGE

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Environmental Protection

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.

08/28/2026

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PRODUCING FORMATION(S)

DEPTHS

Marcellus 7994' TVD 22548' MD

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Please insert additional pages as applicable.

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GAS TEST ☐ Build up ☐ Drawdown ☒ Open Flow OIL TEST ☐ Flow ☐ Pump

SHUT-IN PRESSURE Surface 3721 psi Bottom Hole 5576 psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 4131 mcfpd Oil bpd NGL bpd Water bpd GAS MEASURED BY ☐ Estimated ☒ Orifice ☐ Pilot

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

See attached	0		0		

Please insert additional pages as applicable.

Drilling Contractor Highlands/ Patterson UTI

Address 130 Meadow Ridge Rd Ste 44/ 67090 Executive Dr. City Mt. Morris/ St. Clairsville State PA/OH Zip 15349/43950

Logging Company Baker Hughes

Address 1681 E. Main St. City Bridgeport State WV Zip 26330

Cementing Company NextTier

Address 3990 Rogerdale Rd City Houston State TX Zip 77042

Stimulating Company Evolution

Address 1780 Hughes Landing Blvd. Ste 125 City The Woodlands State TX Zip 77380

Please insert additional pages as applicable.

Completed by Hollie Medley

Telephone 304-212-0422

Signature  Title Regulatory Manager Date 7-29-2026

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS Registry

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ERP 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)	Pump Time (min)
1	4/2/2026	5,552	7,056	10,374	95	35	7,404	302,400	556	155
2	4/2/2026	6,324	6,582	10,919	96	100	9,787	454,700	469	112
3	4/3/2026	6,459	3,730	10,811	100	2	9,910	453,720	488	111
4	4/3/2026	6,492	7,034	11,144	100	50	9,538	453,960	462	108
5	4/4/2026	6,610	5,281	11,067	100	2	9,588	454,320	459	108
6	4/4/2026	6,542	7,372	11,151	100	2	9,547	455,240	456	106
7	4/5/2026	6,194	7,206	10,890	100	2	9,607	459,420	482	107
8	4/5/2026	6,455	6,688	11,377	100	2	9,559	454,480	446	107
9	4/6/2026	5,966	7,452	11,354	100	2	9,488	450,590	475	105
10	4/6/2026	5,905	7,562	11,232	100	2	9,659	456,120	585	108
11	4/7/2026	6,134	7,181	11,121	100	2	9,423	449,460	461	105
12	4/7/2026	6,448	7,310	11,133	100	2	9,563	453,920	428	106
13	4/8/2026	5,417	7,050	11,170	100	2	9,524	456,740	456	106
14	4/8/2026	6,473	7,702	11,287	100	2	9,491	452,560	420	105
15	4/9/2026	6,220	7,278	11,344	100	2	9,508	454,420	446	108
16	4/9/2026	6,008	6,833	11,158	100	2	9,610	456,800	446	107
17	4/9/2026	5,373	4,891	10,987	100	2	9,658	454,360	408	108
18	4/9/2026	6,049	6,949	10,975	83	2	12,668	454,700	403	207
19	4/9/2026	5,856	6,388	10,279	100	2	9,671	455,300	429	108
20	4/10/2026	5,764	5,145	10,853	100	2	9,482	452,920	501	105
21	4/10/2026	5,137	7,300	11,054	100	2	9,619	460,120	380	109
22	4/10/2026	5,394	7,879	11,161	100	2	9,609	454,140	386	108
23	4/11/2026	6,114	8,150	11,041	100	2	9,507	453,880	427	107
24	4/11/2026	5,728	7,621	11,130	100	2	9,541	455,040	380	108
25	4/12/2026	6,052	7,926	11,081	100	2	9,675	454,140	409	109
26	4/12/2026	6,180	8,266	11,270	100	2	9,604	454,780	368	108
27	4/13/2026	6,495	7,931	11,072	100	2	9,746	454,720	401	108
28	4/13/2026	6,005	7,237	10,979	100	2	9,591	458,330	360	109
29	4/14/2026	5,860	7,535	10,829	100	2	9,691	460,760	354	112
30	4/14/2026	6,616	7,145	10,492	100	2	9,579	454,320	386	107
31	4/15/2026	5,579	7,009	10,705	100	2	9,880	452,260	347	111
32	4/15/2026	6,385	7,520	10,660	100	2	9,462	455,560	372	105
33	4/16/2026	5,335	7,160	10,577	100	2	9,616	455,780	336	108
34	4/17/2026	6,373	7,155	10,510	100	2	9,337	458,020	380	106
35	4/17/2026	5,989	6,806	10,764	100	2	9,557	456,640	329	108
36	4/18/2026	6,651	6,362	10,524	100	2	9,346	453,120	357	106
37	4/18/2026	6,615	7,379	10,564	100	2	9,386	454,980	401	106
38	4/19/2026	6,392	7,007	10,533	100	2	9,582	457,880	314	109
39	4/19/2026	6,487	5,253	10,205	100	2	9,428	455,620	346	108
40	4/20/2026	6,100	5,306	10,392	100	2	9,442	451,260	308	107
41	4/21/2026	6,325	7,581	10,279	100	2	9,414	454,340	347	108
42	4/21/2026	6,151	7,465	10,492	100	2	9,569	461,460	300	108
43	4/22/2026	6,459	7,364	10,268	100	2	9,402	455,280	342	106
44	4/22/2026	5,975	6,984	10,470	100	2	9,421	452,480	291	111
45	4/23/2026	6,520	7,973	10,156	100	2	9,443	457,560	331	106

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46	4/23/2026	6,161	6,675	10,198	100	2	9,322	454,200	283	103
47	4/23/2026	6,450	6,860	10,098	100	2	9,395	454,740	329	107
48	4/24/2026	6,045	5,599	9,852	100	2	9,341	454,140	274	104
49	4/24/2026	6,340	7,084	9,782	100	2	9,357	451,320	316	104
50	4/25/2026	5,922	7,211	10,027	100	2	9,454	453,840	325	105
51	4/25/2026	7,222	8,150	10,125	100	2	9,346	455,180	261	103
52	4/26/2026	6,250	7,953	9,945	100	2	9,317	450,648	338	105
53	4/26/2026	5,557	7,958	9,974	100	2	9,287	454,880	253	102
54	4/26/2026	5,985	5,311	9,701	100	2	9,504	451,240	290	105
55	4/27/2026	6,305	7,653	9,765	100	2	9,292	456,120	244	102
56	4/27/2026	6,023	6,985	9,812	100	2	9,456	460,420	240	105
57	4/28/2026	6,230	6,890	9,771	100	2	9,402	455,080	302	106
58	4/28/2026	6,334	7,293	9,716	100	2	9,234	454,860	231	103
59	4/28/2026	6,235	7,404	9,569	100	2	9,333	453,300	296	104
60	4/29/2026	6,167	7,424	9,848	100	2	9,524	454,240	497	113
61	4/29/2026	6,039	7,852	9,667	100	2	9,280	455,580	218	102
62	4/30/2026	5,890	7,082	9,551	100	2	9,324	454,560	265	104
63	4/30/2026	5,406	5,745	9,510	100	2	9,397	456,500	249	102
64	4/30/2026	5,985	7,564	9,558	100	2	9,235	453,460	206	101
65	5/1/2026	5,617	7,120	9,956	100	2	9,336	454,520	201	102
66	5/1/2026	6,295	7,560	9,470	100	2	9,381	452,160	237	102
67	5/2/2026	6,321	7,657	9,505	100	2	9,258	456,088	192	101
68	5/2/2026	6,403	7,355	9,414	100	2	9,338	454,140	226	103
69	5/2/2026	6,257	7,618	9,231	100	2	9,134	448,900	184	100
70	5/3/2026	5,435	8,358	9,206	100	2	9,201	455,560	182	100

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ERP 3H				
Perforation Report				
Stage Number	Report Date	Total Shots	Cluster 1 Top TD	Cluster 5 Bottom TD
1	4/2/2026			22,418
2	4/2/2026	40	22,374	22,214
3	4/3/2026	40	22,172	22,012
4	4/3/2026	40	21,970	21,810
5	4/4/2026	40	21,768	21,608
6	4/4/2026	40	21,566	21,406
7	4/5/2026	40	21,364	21,204
8	4/5/2026	40	21,162	21,002
9	4/6/2026	40	20,960	20,801
10	4/6/2026	40	20,758	20,599
11	4/7/2026	40	20,556	20,397
12	4/7/2026	40	20,354	20,195
13	4/8/2026	40	20,152	19,993
14	4/8/2026	40	19,950	19,791
15	4/9/2026	40	19,748	19,589
16	4/9/2026	40	19,546	19,387
17	4/9/2026	40	19,344	19,185
18	4/9/2026	40	19,143	18,983
19	4/9/2026	40	18,941	18,781
20	4/10/2026	40	18,739	18,579
21	4/10/2026	40	18,537	18,377
22	4/10/2026	40	18,335	18,175
23	4/11/2026	40	18,133	17,973
24	4/11/2026	40	17,931	17,771
25	4/12/2026	40	17,729	17,569
26	4/12/2026	40	17,527	17,367
27	4/13/2026	40	17,325	17,165
28	4/13/2026	40	17,123	16,963
29	4/14/2026	40	16,921	16,762
30	4/14/2026	40	16,719	16,560
31	4/15/2026	40	16,517	16,358
32	4/15/2026	40	16,315	16,156
33	4/16/2026	40	16,113	15,954
34	4/17/2026	40	15,911	15,752
35	4/17/2026	40	15,709	15,550
36	4/18/2026	40	15,507	15,348
37	4/18/2026	40	15,305	15,146
38	4/19/2026	40	15,104	14,944
39	4/19/2026	40	14,902	14,742
40	4/20/2026	40	14,700	14,540
41	4/21/2026	40	14,498	14,338
42	4/21/2026	40	14,296	14,136

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43	4/22/2026	40	14,094	13,934
44	4/22/2026	40	13,892	13,732
45	4/23/2026	40	13,690	13,530
46	4/23/2026	40	13,488	13,328
47	4/23/2026	40	13,286	13,126
48	4/24/2026	40	13,084	12,924
49	4/24/2026	40	12,882	12,723
50	4/25/2026	40	12,680	12,521
51	4/25/2026	40	12,478	12,319
52	4/26/2026	40	12,276	12,117
53	4/26/2026	40	12,074	11,915
54	4/26/2026	40	11,872	11,713
55	4/27/2026	40	11,670	11,511
56	4/27/2026	40	11,468	11,309
57	4/28/2026	40	11,266	11,107
58	4/28/2026	40	11,065	10,905
59	4/28/2026	40	10,863	10,703
60	4/29/2026	40	10,661	10,501
61	4/29/2026	40	10,459	10,299
62	4/30/2026	40	10,257	10,097
63	4/30/2026	40	10,055	9,895
64	4/30/2026	40	9,853	9,693
65	5/1/2026	40	9,651	9,491
66	5/1/2026	40	9,449	9,289
67	5/2/2026	40	9,247	9,087
68	5/2/2026	40	9,045	8,885
69	5/2/2026	40	8,843	8,684
70	5/3/2026	40	8,641	8,482

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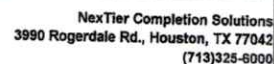
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ERP North Completion Lithology			
Lithology/Formation	Top Depth in FT TVD	Bottom Depth in FT TVD	Describe rock type and record quantity and type of fluid (freshwater, brine, oil, gas, H2S, etc)
Sand/silt	0	300	Sand/silt
Sand/red shale	300	575	Sand/red shale
sandstone/siltstone/red silt	575	665	sandstone/siltstone/red silt
Washington coal	665	669	coal
siltstone/sandstone/limestone	669	734	carbonaceous silt/sandstone
Waynesburg coal	734	739	Waynesburg coal
sandstone/limestone	739	1060	sandstone/limestone
Sewickley Coal	1060	1065	Sewickley Coal
Limestone/siltstone/red beds	1065	1229	Limestone/siltstone/red beds
Pittsburgh coal	1229	1236	Pittsburgh coal
Limestone/siltstone	1236	1300	Limestone/siltstone
Red Rock/siltstone/limestone	1300	2060	Red Rock/siltstone/limestone
siltstone/sandstone	2060	2199	siltstone/sandstone
Little Lime	2199	2259	Little Lime
Big Lime	2259	2364	Limestone
Big Injun	2364	2523	Sandstone
Sand/silt	2523	2584	Sand/silt
Gantz	2584	2591	Sandstone
Sand/shale	2591	2968	Sand/shale
Gordon	2968	3060	Sandstone
Siltstone/sandstone	3060	3230	Siltstone/sandstone
Fourth Sand	3230	3340	Sandstone
siltstone/sandstone	3340	5200	siltstone/sandstone
Gray shale/siltstone	5200	7384	Gray shale/siltstone
Middlesex	7384	7633	Middlesex
Burkett	7633	7800	Burkett
Geneseo	7800	7848	Geneseo
Tully	7848	7896	Tully
Hamilton	7896	7977	Hamilton
Marcellus	7977	8102	Marcellus

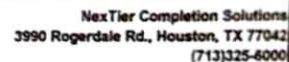
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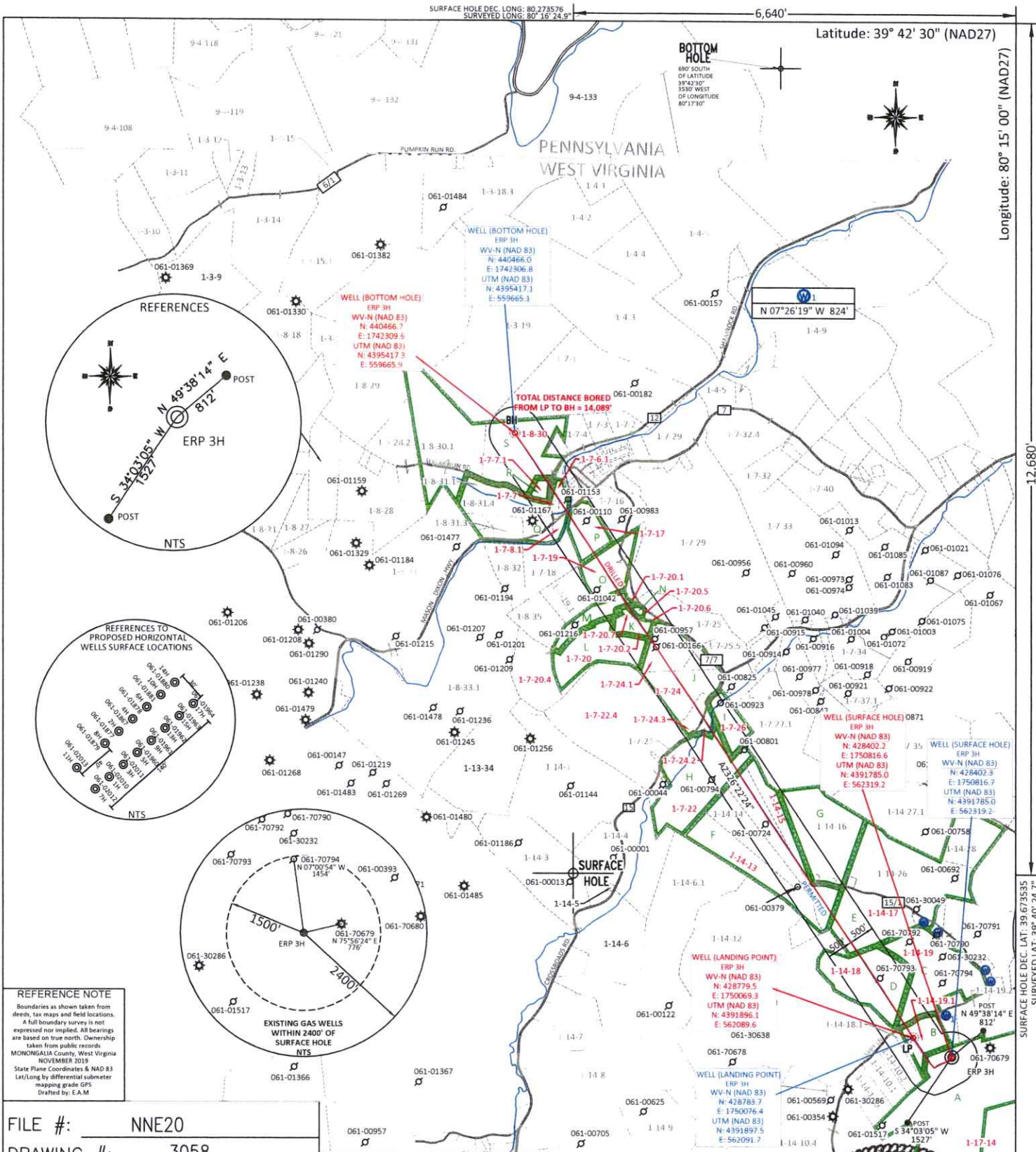
08/28/2026

12 or 40

NexTier Completion Solutions
3990 Rogerdale Rd., Houston, TX 77042
(713)325-6000

08/28/2026





FILE #: NNE20

DRAWING #: 3058

SCALE: PLAT: 1" = 2600' TICK: 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 / BATTELLE

SURFACE OWNER: Phoenix Energy Resources, LLC

OIL & GAS ROYALTY OWNER: Phoenix Energy Resources, LLC, et al.

LEASE NUMBERS:

DATE: JULY 8, 2026

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

API WELL #: 47 61 02011
STATE COUNTY PERMIT

AS-BUILT
ELEVATION: 1,338.6'

QUADRANGLE: WADSWORTH

ACREAGE: 946.937 +/-

ACREAGE: 157.502 +/-

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

DRILLED DEPTH: TVD: 7,994' TMD: 22,548'

DESIGNATED AGENT: JOHN ADAMS

WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC

ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200

CITY: CHARLESTON STATE: WV ZIP CODE: 25301

CITY: CHARLESTON STATE: WV ZIP CODE: 25301

	PROPERTY OWNER INDEX
1-7-6.1	GRACE FELLOWSHIP S B C
1-7-7	GRACE FELLOWSHIP S B C
1-7-7.1	EAKIN-WANA CEMETERY
1-7-8.1	RYAN & RACHEL LEMLEY
1-7-17	RICHARD A & LINDA S WADE
1-7-19	WILLIAM C, REBECCA L CROSS; FRODELIUS & TAMELA D CROSS
1-7-20	RICKY LEE & KATHRYN CROSS
1-7-20.1	DEBORAH L SIMPSON
1-7-20.2	DOUGLAS M CURRENCE
1-7-20.4	DEBORAH LYNN SIMPSON
1-7-20.5	KEITH A AMMONS
1-7-20.6	KEITH A AMMONS
1-7-20.7	KEITH A AMMONS
1-7-22	RANDY A HENNEN
1-7-24	RANDY STILES & KAREN CHURCH (LIFE RAYMOND O STILES)
1-7-24.1	RANDY STILES & KAREN CHURCH (LIFE RAYMOND O STILES)
1-7-24.2	JEFFREY W & AMBER J CROPPER
1-7-24.3	JON WILLIAM & SAVANNA FLEEMAN
1-7-26	RANDY A & BETH A STILES
1-8-30	CONSOL MINING COMPANY LLC
1-14-13	JOSEPH CARL & SUSAN E TOOTHMAN
1-14-15	EDWARD L TENNANT
1-14-17	RANDELL LEE LANTZ
1-14-18	NORMA J & FREDDIE WAYNE WILLIAMS
1-14-19	NORMA WILLIAMS
1-14-19.1	PHOENIX FEDERAL MINING COMPLEX LLC
1-17-14	PHOENIX FEDERAL MINING COMPLEX LLC

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	LEASE INDEX		
A	WV-061-005667-001	K	WV-061-005924-001
B	WV-061-005667-001	L	WV-061-005925-001
C	WV-061-005697-001	M	WV-061-005924-001
D	WV-061-006663-002	N	WV-061-006307-001
E	WV-061-005843-009	O	WV-061-006430-003
F	WV-061-005842-008	P	WV-061-000195-001-JOA
G	WV-061-005805-001	Q	WV-061-000195-001-JOA
H	WV-061-000195-001-JOA	R	WV-061-000195-001-JOA
I	WV-061-006789-001	S	WV-061-006689-001
J	WV-061-005947-001		

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FILE #: NEE20

DRAWING #: 3058

SCALE: N/A

DATE: JULY 8, 2026

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

API WELL #: 47 61 02011
STATE COUNTY PERMIT

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	04/01/2026
Job End Date:	05/03/2026
State:	West Virginia
County:	Monongalia
API Number:	47-061-02011-00-00
Operator Name:	Northeast Natural Energy LLC
Well Name and Number:	ERP 3H
Latitude:	39.673615
Longitude:	-80.273374
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	8071
Total Base Water Volume (gal)*:	28992516
Total Base Non Water Volume:	0



Water Source	Percent
Surface Water, < 1000TDS	85.00%
Other, > 1000TDS	15.00%

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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	Operator	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	88.33021	None
Sand (100 Mesh Proppant)	Operator	Proppant					
			Crystalline Silica (quartz)	14808-60-7	100.00000	10.44640	None
Sand (40/70 White Proppant)	Operator	Proppant					
			Crystalline Silica (quartz)	14808-60-7	100.00000	1.12097	None
StimSTREAM FR 9800	Chemstream	Friction Reducer					
			Acrylamide-Chloride Salt of Trimethylammonio-Ethyl Acrylate copolymer	69418-26-4	40.00000	0.08153	None
			Alkanes, C12-26-branched and linear	90622-53-0	40.00000	0.01825	None
			Water	7732-18-5	15.00000	0.00684	None

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			Ethoxylated Alcohols (C12-16)	68551-12-2	5.00000	0.00228	None
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Alkanes, C12-26-branched and linear	90622-53-0	40.00000	0.01825	None
			Water	7732-18-5	90.00000	0.01802	None
			Water	7732-18-5	15.00000	0.00684	None
			pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides	68909-18-2	25.00000	0.00539	None
			Ethanoic Acid	Proprietary	15.00000	0.00324	None
			Ethoxylated Alcohols	Proprietary	15.00000	0.00324	None
			Ethoxylated Alcohols (C12-16)	68551-12-2	5.00000	0.00228	None
			Not Listed	Proprietary	10.00000	0.00216	None
			Not Listed	Proprietary	10.00000	0.00216	None
			AA/Maleic Anhydride Co-polymer	9003-04-7	10.00000	0.00152	None
			2-ethylhexanol	104-76-7	5.00000	0.00108	None
			Ethoxylated Nonylphenols	127087-87-0	5.00000	0.00108	None
			Quaternary Ammonium Compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides	68424-85-1	3.00000	0.00060	None
			Didecyldimethylammonium Chloride	7173-51-5	3.00000	0.00060	None
EZ-A 431	Obsidian	Acid					
			Methanol	67-56-1	25.00000	0.00539	None
			pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides	68909-18-2	25.00000	0.00539	None
			Ethanoic Acid	Proprietary	15.00000	0.00324	None
			Ethoxylated Alcohols	Proprietary	15.00000	0.00324	None
			Not Listed	Proprietary	10.00000	0.00216	None
			Not Listed	Proprietary	10.00000	0.00216	None
			2-ethylhexanol	104-76-7	5.00000	0.00108	None
			Ethoxylated Nonylphenols	127087-87-0	5.00000	0.00108	None
Clearal 268A	Chemstream	Biocide					
			Water	7732-18-5	90.00000	0.01802	None
			Glutaraldehyde	111-30-8	20.00000	0.00400	None
			Quaternary Ammonium Compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides	68424-85-1	3.00000	0.00060	None

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			Didecyldimethylammonium Chloride	7173-51-5	3.00000	0.00060	None
StimSTREAM SC 810	Chemstream	Scale Control					
			AA/Maleic Anhydride Co-polymer	9003-04-7	10.00000	0.00152	None
			AA/ATBS Co-polymer	9003-05-8	10.00000	0.00152	None
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 various types of water including fresh water, produced water, and 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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