

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

API 47-061-01963 County Monongalia District Battelle  
Quad Wadestown Pad Name ERP Field/Pool Name \_\_\_\_\_  
Farm name Phoenix Energy Resources LLC Well Number 15H  
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 4391801.4 Easting 562337.2  
Landing Point of Curve Northing 4392253.0 Easting 563367.4  
Bottom Hole Northing 4396110.9 Easting 560703.6

Elevation (ft) 1338 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 8/19/24 Date drilling commenced 3/25/25 Date drilling ceased 4/8/25  
Date completion activities began 6/14/25 Date completion activities ceased 7/5/25  
Verbal plugging (Y/N) \_\_\_\_\_ Date permission granted \_\_\_\_\_ Granted by \_\_\_\_\_

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

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Freshwater depth(s) ft 1220' Open mine(s) (Y/N) depths \_\_\_\_\_ N  
Salt water depth(s) ft 2367' Void(s) encountered (Y/N) depths \_\_\_\_\_ EN  
Coal depth(s) ft 1220' Cavern(s) encountered (Y/N) depths \_\_\_\_\_ N  
Is coal being mined in area (Y/N) \_\_\_\_\_ N

Reviewed by:   
12-9-25  
03/13/2026

API 47-061 - 01963 Farm name Phoenix Energy Resources LLC Well number 15H

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	100	New			Y-7 bbls
Surface	17 1/2	13 5/8	1339	New	54.5#	201	Y-43 bbls
Coal							
Intermediate 1	12 1/4	9 5/8	2637	New	36#		Y- 22 bbls
Intermediate 2							
Intermediate 3							
Production	8.5	5.5	25,077	New	20#		N- EST TOC 2192'
Tubing							
Packer type and depth set							

Comment Details Conductor cement via grout job- cement to surface

Casing depths based on KB elevation.

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	Class A	228	15.6	1.18	269	0	>8 hrs
Surface	NCM-956	1255	15.6	1.14	1426	0	8 hrs
Coal							
Intermediate 1	NCM-956	920	15.6	1.12	1034	0	8 hrs
Intermediate 2							
Intermediate 3							
Production	NCM-956/NPZ010	4680	14.5	1.16	967		>8 hrs
Tubing							

Drillers TD (ft) 25,140' Loggers TD (ft) 25,077'

Deepest formation penetrated Marcellus Plug back to (ft) \_\_\_\_\_

Plug back procedure \_\_\_\_\_

Kick off depth (ft) 8,405'

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 third joint to surface

Intermediate: Shoe track and every third joint to surface

Production: Shoe track and every joint in the lateral to KOP, then every third joint 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 \_\_\_\_\_





ERP 15H				
Perforation Report				
Stage Number	Report Date	Total Shots	Cluster 1 Top TD	Cluster 5 Bottom TD
1	6/14/2025			24,967
2	6/15/2025	40	24,923	24,764
3	6/15/2025	40	24,722	24,564
4	6/15/2025	40	24,522	24,363
5	6/15/2025	40	24,321	24,162
6	6/16/2025	40	24,120	23,962
7	6/16/2025	40	23,919	23,761
8	6/16/2025	40	23,719	23,560
9	6/17/2025	40	23,518	23,359
10	6/17/2025	40	23,317	23,159
11	6/17/2025	40	23,116	22,958
12	6/17/2025	40	22,916	22,757
13	6/18/2025	40	22,715	22,556
14	6/18/2025	40	22,514	22,356
15	6/18/2025	40	22,314	22,155
16	6/19/2025	40	22,113	21,954
17	6/19/2025	40	21,912	21,754
18	6/18/2025	40	21,711	21,553
19	6/20/2025	40	21,511	21,352
20	6/20/2025	40	21,310	21,151
21	6/20/2025	40	21,109	20,951
22	6/21/2025	40	20,909	20,750
23	6/21/2025	40	20,708	20,549
24	6/21/2025	40	20,507	20,349
25	6/22/2025	40	20,306	20,148
26	6/22/2025	40	20,106	19,947
27	6/22/2025	40	19,905	19,746
28	6/22/2025	40	19,704	19,546
29	6/23/2025	40	19,504	19,345
30	6/22/2025	40	19,303	19,144
31	6/23/2025	40	19,102	18,944
32	6/24/2025	40	18,901	18,743
33	6/24/2025	40	18,701	18,542
34	6/24/2025	40	18,500	18,341
35	6/24/2025	40	18,299	18,141
36	6/25/2025	40	18,089	17,940
37	6/25/2025	40	17,898	17,739
38	6/25/2025	40	17,697	17,538
39	6/25/2025	40	17,496	17,338
40	6/26/2025	40	17,296	17,137
41	6/26/2025	40	17,095	16,936
42	6/26/2025	40	16,894	16,736

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43	6/27/2025	40	16,693	16,535
44	6/27/2025	40	16,493	16,334
45	6/26/2025	40	16,292	16,133
46	6/27/2025	40	16,091	15,933
47	6/27/2025	40	15,891	15,732
48	6/28/2025	40	16,690	15,531
49	6/28/2025	40	15,489	15,331
50	6/28/2025	40	15,288	15,130
51	6/28/2025	40	15,088	14,929
52	6/29/2025	40	14,887	14,728
53	6/29/2025	40	14,686	14,528
54	6/29/2025	40	14,486	14,327
55	6/29/2025	40	14,285	14,126
56	6/30/2025	40	14,084	13,925
57	6/30/2025	40	13,883	13,725
58	6/30/2025	40	13,683	13,524
59	7/1/2025	40	13,482	13,323
60	7/1/2025	40	13,281	13,123
61	7/1/2025	40	13,080	12,922
62	7/1/2025	40	12,880	12,721
63	7/2/2025	40	12,679	12,520
64	7/2/2025	40	12,478	12,320
65	7/2/2025	40	12,278	12,119
66	7/2/2025	40	12,077	11,918
67	7/3/2025	40	11,876	11,718
68	7/3/2025	40	11,675	11,517
69	7/3/2025	40	11,475	11,316
70	7/3/2025	40	11,274	11,115
71	7/4/2025	40	11,073	10,915
72	7/4/2025	40	10,873	10,714
73	7/4/2025	40	10,672	10,513
74	7/4/2025	40	10,471	10,313
75	7/5/2025	40	10,270	10,112
76	7/5/2025	40	10,070	9,911
77	7/5/2025	40	9,869	9,710
78	7/5/2025	40	9,668	9,510

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## ERP 15H 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	6/14/2025	6,275	7,704	8,821	60	426	7,477	304,040	552
2	6/15/2025	5,971	5,993	9,826	91	10	9,799	455,480	547
3	6/15/2025	6,257	6,991	9,918	94	10	10,425	463,000	545
4	6/15/2025	6,163	7,860	9,934	93	10	10,367	452,760	538
5	6/15/2025	6,169	7,946	9,763	85	10	9,843	459,980	534
6	6/16/2025	6,280	7,576	9,688	83	10	9,690	456,220	530
7	6/16/2025	6,335	7,502	9,907	89	10	9,748	454,580	525
8	6/16/2025	6,296	6,878	9,729	87	10	9,733	459,840	521
9	6/17/2025	6,379	7,266	9,932	89	10	9,759	452,300	521
10	6/17/2025	5,931	7,694	9,889	90	10	9,646	450,420	512
11	6/17/2025	5,939	7,254	9,895	90	10	9,668	456,240	507
12	6/17/2025	6,026	7,774	9,922	90	10	9,717	457,040	503
13	6/18/2025	6,371	6,691	9,884	90	10	9,717	454,640	498
14	6/18/2025	6,246	7,396	9,929	96	10	9,684	455,000	494
15	6/18/2025	6,493	7,602	9,908	90	10	9,731	454,960	490
16	6/19/2025	6,175	7,486	9,926	95	10	9,539	450,260	485
17	6/19/2025	6,251	7,325	9,921	95	10	9,594	457,040	481
18	6/18/2025	6,126	7,838	9,923	95	10	9,699	459,150	476
19	6/20/2025	6,156	7,006	9,939	92	10	9,754	460,720	467
20	6/20/2025	6,352	7,705	9,932	93	10	9,637	455,980	467
21	6/20/2025	6,199	7,743	9,935	95	10	9,731	457,440	463
22	6/21/2025	6,296	6,865	9,945	98	10	9,619	454,580	459
23	6/21/2025	5,832	7,669	9,928	96	10	9,718	463,060	454
24	6/21/2025	5,720	8,044	9,930	97	10	9,689	456,400	450
25	6/22/2025	6,428	7,371	9,969	94	10	9,640	454,040	445
26	6/22/2025	5,935	8,074	9,946	95	10	9,709	459,180	441
27	6/22/2025	6,318	8,010	9,906	94	10	9,663	461,244	436
28	6/22/2025	6,021	7,484	9,955	95	10	9,615	455,340	432
29	6/23/2025	6,347	7,858	9,939	96	10	9,675	460,900	427
30	6/22/2025	6,158	7,604	9,944	95	10	9,621	456,480	423
31	6/23/2025	5,104	8,155	9,968	98	10	9,632	454,240	419
32	6/24/2025	6,448	7,646	9,965	96	10	9,628	455,440	414
33	6/24/2025	6,073	7,031	9,955	95	10	9,580	453,860	410
34	6/24/2025	5,698	8,025	9,956	96	10	9,629	457,230	405
35	6/24/2025	6,127	7,922	9,960	96	10	9,705	461,800	401
36	6/25/2025	5,809	7,539	9,953	98	10	9,679	461,240	396
37	6/25/2025	6,074	8,463	9,969	97	10	9,574	456,080	392
38	6/25/2025	6,091	8,198	9,933	96	10	9,515	451,520	388
39	6/25/2025	6,651	7,491	9,962	97	10	9,636	455,220	502
40	6/26/2025	6,066	9,127	9,957	93	18	9,651	457,880	379
41	6/26/2025	5,787	8,299	9,977	93	10	9,525	460,040	374

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42	6/26/2025	5,680	8,301	9,955	95	10	9,528	453,740	370
43	6/27/2025	6,246	8,579	9,916	97	10	9,516	456,840	365
44	6/27/2025	6,173	7,649	9,981	93	10	9,529	454,440	361
45	6/26/2025	6,545	8,484	9,960	94	10	9,496	455,080	357
46	6/27/2025	6,253	8,489	9,963	96	10	9,510	459,540	352
47	6/27/2025	6,254	8,173	9,912	99	10	9,548	459,080	348
48	6/28/2025	6,806	7,537	9,823	99	10	9,620	462,320	343
49	6/28/2025	6,904	7,672	9,785	97	10	9,500	456,840	339
50	6/28/2025	5,091	7,414	9,488	93	10	9,484	455,060	334
51	6/28/2025	5,736	8,774	9,874	100	10	9,481	453,300	330
52	6/29/2025	6,072	7,398	9,800	100	10	9,533	459,280	325
53	6/29/2025	5,603	7,571	9,915	96	10	9,404	455,800	321
54	6/29/2025	6,903	8,150	9,688	95	10	11,809	451,180	317
55	6/29/2025	6,535	8,198	9,706	96	10	9,575	463,980	312
56	6/30/2025	6,331	8,349	9,823	99	10	9,400	451,240	308
57	6/30/2025	6,277	8,457	9,587	97	10	10,389	454,880	303
58	6/30/2025	6,375	7,152	9,515	100	10	9,368	451,340	299
59	7/1/2025	6,165	8,730	9,618	99	10	9,451	455,080	294
60	7/1/2025	5,906	7,937	9,653	100	10	9,425	452,920	290
61	7/1/2025	6,593	8,286	9,481	96	10	9,735	448,740	286
62	7/1/2025	6,225	8,400	9,340	96	10	9,566	455,500	281
63	7/2/2025	6,258	7,892	9,204	97	10	9,383	453,143	277
64	7/2/2025	5,846	7,483	9,049	98	10	9,864	459,220	272
65	7/2/2025	6,701	7,760	9,165	97	10	9,776	456,550	268
66	7/2/2025	6,779	7,968	9,197	100	10	9,501	460,680	263
67	7/3/2025	6,051	7,878	9,390	97	10	9,382	456,660	259
68	7/3/2025	5,589	8,094	8,928	97	10	9,716	455,140	254
69	7/3/2025	6,455	8,034	8,924	98	10	9,681	457,560	250
70	7/3/2025	6,312	7,951	9,274	99	10	9,476	457,120	246
71	7/4/2025	5,531	7,875	8,898	98	10	9,597	452,880	241
72	7/4/2025	5,156	7,875	8,933	98	10	9,598	448,880	237
73	7/4/2025	5,594	7,513	8,938	99	10	9,534	459,780	232
74	7/4/2025	5,218	6,907	8,687	99	10	9,347	459,480	228
75	7/5/2025	5,575	7,144	8,744	98	10	9,346	458,860	223
76	7/5/2025	5,604	7,359	8,794	98	10	9,620	454,400	219
77	7/5/2025	5,329	6,476	8,623	98	10	9,707	455,840	215
78	7/5/2025	4,809	8,000	8,571	99	10	9,240	448,400	210

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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	994	sandstone/limestone
Sewickley Coal	994	1000	Sewickley Coal
Limestone/siltstone/red beds	1000	1211	Limestone/siltstone/red beds
Pittsburgh coal	1211	1220	Pittsburgh coal
Limestone/siltstone	1220	1300	Limestone/siltstone
Red Rock/siltstone/limestone	1300	2060	Red Rock/siltstone/limestone
siltstone/sandstone	2060	2149	siltstone/sandstone
Little Lime	2149	2217	Little Lime
Big Lime	2217	2367	Limestone
Big Injun	2367	2500	Sandstone
Sand/silt	2500	2546	Sand/silt
Gantz	2546	2552	Sandstone
Sand/shale	2552	2962	Sand/shale
Gordon	2962	3060	Sandstone
Siltstone/sandstone	3060	3230	Siltstone/sandstone
Fourth Sand	3230	3340	Sandstone
siltstone/sandstone	3340	5200	siltstone/sandstone
Gray shale/siltstone	5200	7399	Gray shale/siltstone
Middlesex	7399	7646	Middlesex
Burkett	7646	7800	Burkett
Geneseo	7800	7856	Geneseo
Tully	7856	7898	Tully
Hamilton	7898	7990	Hamilton
Marcellus	7990	8102	Marcellus
Onondaga	8102		Onondaga

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90230

100630



# NORTHEAST NATURAL ENERGY, LLC



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

Slot: 15H  
 Well: ERP 15H  
 Wellbore: ERP 15H AWB

Plot reference wellpath is ERP 15H awp Proj: 25140	Grid System: NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet
True vertical depths are referenced to Patterson 873 (KB)	North Reference: Grid north
Reference wellpath measured depths are referenced to Patterson 873 (KB)	Scale: True distance
Patterson 873 (KB) to Mean Sea Level: 1366.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: 15H): -1338 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: tranlam on 2025-04-20; Database: WA_MPL_EASTERNUS_Defn

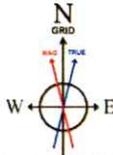
### Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
ERP Pad			1750811.960	428438.070	39°40'25.3685"N	80°16'24.2106"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
15H	16.95	64.89	1750876.850	428455.020	39°40'25.5415"N	80°16'23.3826"W
Patterson 873 (KB) to Ground level (At Slot: 15H)					28.5ft	
Mean Sea Level to Ground level (At Slot: 15H)					-1338ft	
Patterson 873 (KB) to Mean Sea Level					1366.5ft	

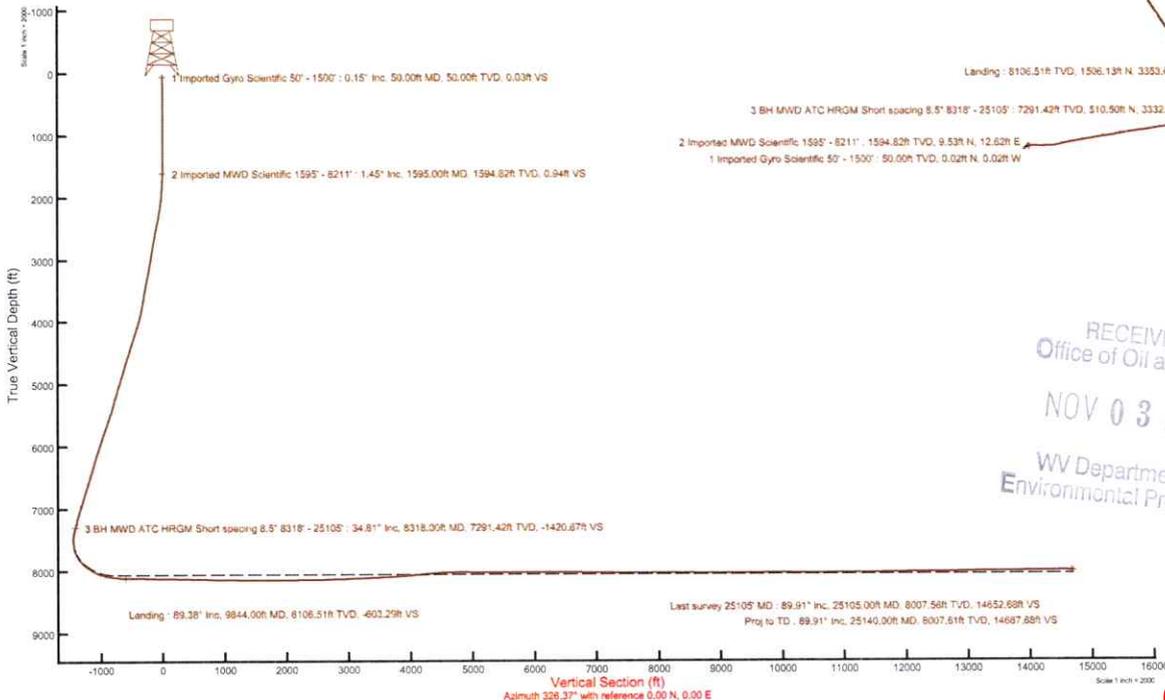
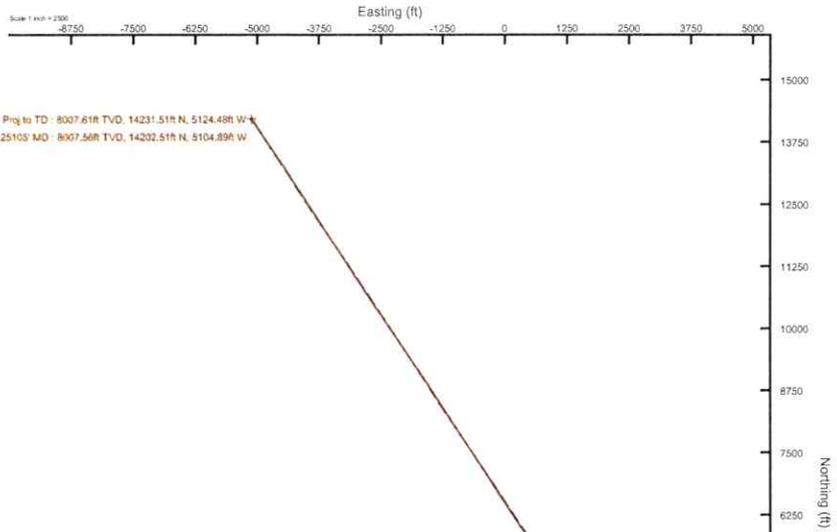
### Bottom Hole Location

MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
25140.00	89.910	325.960	8007.61	14231.51	-5124.48	1745752.68	442685.66	39°42'45.7428"N	80°17'30.5211"W

**API: 4706101963000**  
**BH JOB: 112536638**  
**DURATION: 4/2/2025 - 4/8/2025**  
**RIG: Patterson 873**



HDGM2025v1.0 (1900.0 to 2026.0) Dip: 66.17° Field: 51509.7 nT  
 Magnetic North is 8.01 degrees West of True North (at 4/2/2025)  
 Grid North is 0.49 degrees West of True North  
 To correct azimuth from True to Grid add 0.49 degrees  
 To correct azimuth from Magnetic to Grid subtract 8.52 degrees



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700 Austin Street  
Levelland, TX 79336  
888-400-6294

### CEMENTING LOG

Stage No.

Date 9-26-24 District \_\_\_\_\_  
Company North East  
Lease ERP Well No. 1514  
County Monongalia State WV  
Location Fairview

#### CEMENT DATA:

CEMENT: Pump Time 4 hrs Type A+2% s/b  
Excess 30%  
Amt. 228 Skys Yield 1.18 ft/sk Density 15.4 PPG  
Water Requirement \_\_\_\_\_ gals/sk Tail 5-22 gals/sk Total 25 Bbls.

CASING DATA Conductor  Misc

Pump Trucks Used \_\_\_\_\_  
Bulk Equip. \_\_\_\_\_

Size 26 Type STD Weight \_\_\_\_\_

Open Hole: Size 30 Weight 100.5t

#### CAPACITY FACTORS

Casing Bbls/Lin ft. .15364 Lin. ft/Bnl. \_\_\_\_\_  
Open Holes Bbls/Lin ft. \_\_\_\_\_ Lin. ft/Bnl. \_\_\_\_\_  
Annulus: Bbls/Lin ft. .3147 Lin. ft/Bnl. \_\_\_\_\_  
Bbls/Lin ft. \_\_\_\_\_ Lin. ft/Bnl. \_\_\_\_\_

Disp Fluid Type FRESH Amt. 48 Bbls Weight 8.13 PPG  
Bbls Weight \_\_\_\_\_ PPG

REMARKS	TIME	PRESSURES PSI	FLUID DATA	
	AM/PM	PUMPING PRESSURE	TOTAL FLUID	RATE Bbls. Min
On Location	7:00 am			
Pre Job Safety Meeting	8:00 am			
Rig Up				
Preflush with H <sub>2</sub> O	8:34 am		5 bbl	2 bpm
Cement Mudscaled at: <u>15.6</u> Mudscaled Throughout Job	8:40 am	60 PSI	48 bbl	3 bpm
Displaced with H <sub>2</sub> O	8:59 am		48 bbl	3 bpm
Shut Down	9:15 am			
Water PH				
Water Temp				
Cement Temp				
Bbl. Cement to Surface <u>7 bbl</u>				

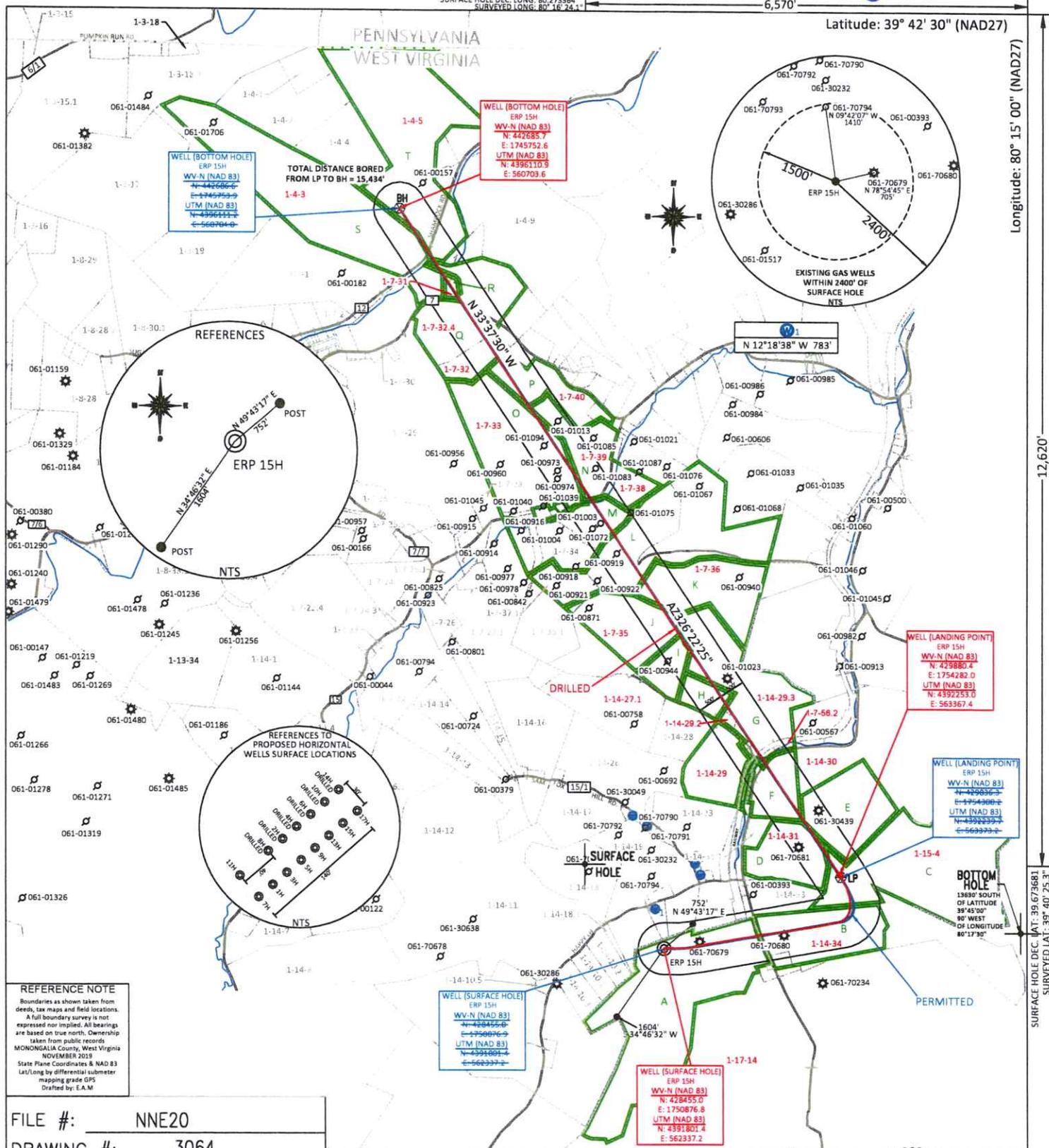
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**REFERENCE NOTE**  
Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records MONONGALIA County, West Virginia NOVEMBER 2019 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS Drafted by: E.A.M

FILE #: NNE20  
DRAWING #: 3064  
SCALE: PLAT: 1" = 2800'  
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: \_\_\_\_\_



(+) 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: \_\_\_\_\_

L.L.S. #2124 : Ernest J. Benchek III  
DATE: JULY 31, 2025  
OPERATOR'S WELL #: ERP 15H (AS-DRILLED)  
API WELL #: 47 61 01963  
STATE COUNTY PERMIT  
AS-BUILT ELEVATION: 1,338.6'  
QUADRANGLE: WADESTOWN  
ACREAGE: 1445.44 +/-  
ACREAGE: 143.460 +/-

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: 8,007' TMD: 25,140'  
DESIGNATED AGENT: JOHN ADAMS  
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200  
CITY: CHARLESTON STATE: WV ZIP CODE: 25301

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PROPERTY OWNER INDEX	
1-4-3	CONSOL MINING COMPANY LLC
1-4-5	CONSOL MINING COMPANY LLC
1-7-31	CNX LAND LLC
1-7-32	MITCHELL & LENA HOLMES
1-7-32.4	TREVIS & JORDYN HALL
1-7-33	EDDY GARY LEE, LEROY ZINN, WILLIAM GLEN, RICHARD A ET AL
1-7-35	ROGER L & CARMEN M SEAMAN
1-7-36	JERRY L & MARGARET E WILSON
1-7-38	BUCK & LINDA HENNEN
1-7-39	DAVID,TIMOTHY & SYLVIA J TUTTLE; NAOMI LEMLEY
1-7-40	DAVID,TIMOTHY & SYLVIA J TUTTLE; NAOMI LEMLEY
1-7-56.2	PENNSYLVANIA LINES LLC
1-14-27.1	RUSSELL L & VA M TOOTHMAN
1-14-29	DELBERT RAY & LEORA CORDER
1-14-29.2	EDGAR J HUGGINS JR & BETTY J HUGGINS
1-14-29.3	LAVONNA J & JOHN MCCLURE
1-14-30	JOHN FOX TRUST FOR BONNIE HUMBERTSON
1-14-31	LELAND TENNANT
1-14-34	EASTERN ASSOCIATED COAL CORP
1-15-4	STANDARD LAND CO LLC & ARKANSAS ENERGY PARTNERS LLC
1-17-14	PHOENIX FEDERAL MINING COMPLEX LLC

LEASE INDEX			
A	WV-061-005667-001	N	WV-061-006384-001
B	WV-061-005667-001	O	WV-061-006635-001
C	WV-061-000208-001-JOA	P	WV-061-005245-005
D	WV-061-005754-001	Q	WV-061-004218-004
E	WV-061-006179-001	R	WV-061-000195-001-JOA
F	WV-061-000195-001-JOA	S	WV-061-000208-001-JOA
G	WV-061-000195-001-JOA	T	WV-061-000195-001-JOA
H	WV-061-000195-001-JOA		
I	WV-061-000195-001-JOA		
J	WV-061-000195-001-JOA		
K	WV-061-005230-001		
L	WV-061-005230-001		
M	WV-061-006384-001		

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FILE #: <u>NEE20</u>	DATE: <u>JULY 31, 2025</u>
DRAWING #: <u>3064</u>	OPERATOR'S WELL #: <u>FRP 15H (AS-DRILLED)</u>
SCALE: <u>N/A</u>	API WELL #: <u>47</u> <u>61</u> <u>01963</u> STATE COUNTY PERMIT

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## Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	06/14/2025
Job End Date:	07/05/2025
State:	West Virginia
County:	Monongalia
API Number:	47-061-01963-00-00
Operator Name:	Northeast Natural Energy LLC
Well Name and Number:	ERP 15H
Latitude:	39.673762
Longitude:	-80.273162
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	9508
Total Base Water Volume (gal)*:	32966766
Total Base Non Water Volume:	0



Water Source	Percent
Other, > 1000TDS	85.00%

### 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
Clearal 268	Chemstream	Biocide					
EZ-A 431	Obsidian Chemical Solutions	Chemical Blend					
HCL Acid (28%)	CHEMSTREAM	Acid					
Sand	US Silica	Proppant					
StimSTREAM FR 9800	Chemstream	Friction Reducer					
StimSTREAM SC 405	Chemstream	Scale Control					
StimSTREAM SC 810	Chemstream	Scale Control					
Water	CNX	Carrier/Base Fluid					
Items above are Trade Names. Items below are the individual ingredients.							
			Water	7732-18-5	100.00000	88.44896	None
			Crystalline Silica in the form	14808-60-7	99.90000	11.37563	None

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			of Quartz				
			ACRYLAMIDE- CHLORIDE SALT OF TRIMETHYLAMMONIO- ETHYL ACRYLATE COPOLYMER	69418-26-4	40.00000	0.03296	None
			ALKANES, C12-26- BRANCHED AND LINEAR	90622-53-0	40.00000	0.03296	None
			Hydrogen chloride	7647-01-0	28.00000	0.01524	None
			Glutaraldehyde	111-30-8	20.00000	0.00426	None
			ETHOXYLATED ALCOHOLS (C12-16)	68551-12-2	5.00000	0.00412	None
			AA/Maleic Anhydride Co- polymer	9003-04-7	10.00000	0.00349	None
			AA/ATBS Co-polymer	9003-05-8	10.00000	0.00349	None
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00064	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00064	None
			Ethanol	64-17-5	1.50000	0.00032	None
			Methanol	67-56-1	25.00000	0.00009	None
			Pyridinium, 1- (phenylmethyl)-, ethyl methyl derivs., chlorides	68909-18-2	25.00000	0.00009	None
			Ethoxylated Alcohols	Proprietary	15.00000	0.00005	None
			Ethanoic Acid	Proprietary	15.00000	0.00005	None
			2-ethylhexanol	104-76-7	5.00000	0.00002	None
			Ethoxylated Nonylphenols	127087-87- 0	5.00000	0.00002	None

\* 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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