

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

API 47-061-01962 County Monongalia District Battelle  
Quad Wadestown Pad Name ERP Field/Pool Name \_\_\_\_\_  
Farm name Phoenix Energy Resources LLC Well Number 13H  
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 4391797.3 Easting 562332.7  
Landing Point of Curve Northing 4392253.0 Easting 563015.1  
Bottom Hole Northing 4395946.8 Easting 560465.9

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 385, 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 2/12/25 Date drilling ceased 2/27/25  
Date completion activities began 5/15/25 Date completion activities ceased 6/13/25  
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

RECEIVED  
Office of Oil and Gas  
NOV 03 2025

Freshwater depth(s) ft 1220' Open mine(s) (Y/N) depths N WV Department of  
Salt water depth(s) ft 2367' Void(s) encountered (Y/N) depths N Environmental Protection  
Coal depth(s) ft 1220' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by [Signature]  
12-9-25  
**03/13/2026**

API 47-061 - 01962 Farm name Phoenix Energy Resources LLC Well number 13H

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-9 bbls
Surface	17 1/2"	13 5/8"	1339'	New	54.5	200	Y-55 bbls
Coal							
Intermediate 1	12 1/4"	9 5/8"	2657'	New	36		*N
Intermediate 2							
Intermediate 3							
Production	8.5"	5.5"	23,834'	New	20		Y-45 bbls
Tubing							
Packer type and depth set							

Comment Details Conductor Cement via grout job- cement to surface. Casing depths based on KB elevation.  
 \*Approval granted from State Inspector (via email) to not perform a remedial cement job and bring cement to surface on production

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	1425.75	0	8 hrs
Coal							
Intermediate 1	NCM-956	915	15.6	1.13	1032	77	8 hrs
Intermediate 2							
Intermediate 3							
Production	NCM-956	5140	14.5	1.16	5957.31	0	>8 hrs
Tubing							

Drillers TD (ft) 23,919' Loggers TD (ft) 23,834'  
 Deepest formation penetrated Marcellus Plug back to (ft) \_\_\_\_\_  
 Plug back procedure \_\_\_\_\_

Kick off depth (ft) 7930'

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

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 \_\_\_\_\_

RECEIVED  
Office of Oil and Gas  
NOV 03 2025  
WV Department of Environmental Protection





50630

ERP 13H				
Perforation Report				
Stage Number	Report Date	Total Shots	Cluster 1 Top TD	Cluster 5 Bottom TD
1	5/15/2025			23,724
2	5/15/2025	40	23,680	23,522
3	5/15/2025	40	23,480	23,322
4	5/15/2025	40	23,280	23,122
5	5/16/2025	40	23,079	22,921
6	5/16/2025	40	22,879	22,921
7	5/17/2025	40	22,679	22,521
8	5/17/2025	40	22,479	22,321
9	5/17/2025	40	22,279	22,121
10	5/18/2025	40	22,078	21,920
11	5/18/2025	40	21,878	21,720
12	5/19/2025	40	21,678	21,520
13	5/19/2025	40	21,478	21,320
14	5/19/2025	40	21,278	21,119
15	5/20/2025	40	21,077	20,919
16	5/20/2025	40	20,877	20,719
17	5/21/2025	40	20,677	20,519
18	5/21/2025	40	20,477	20,319
19	5/21/2025	40	20,277	20,118
20	5/22/2025	40	20,076	19,918
21	5/22/2025	40	19,876	19,718
22	5/22/2025	40	19,676	19,518
23	5/23/2025	40	19,476	19,318
24	5/23/2025	40	19,276	19,117
25	5/24/2025	40	19,075	18,917
26	5/24/2025	40	18,875	18,717
27	5/24/2025	40	18,675	18,517
28	5/25/2025	40	18,475	18,317
29	5/26/2025	40	18,275	18,116
30	5/25/2025	40	18,074	17,916
31	5/26/2025	40	17,874	17,716
32	5/27/2025	40	17,674	17,516
33	5/28/2025	40	17,474	17,316
34	5/28/2025	40	17,274	17,115
35	5/28/2025	40	17,073	16,915
36	5/29/2025	40	16,873	16,715
37	5/29/2025	40	16,673	16,515
38	5/29/2025	40	16,473	16,315
39	5/30/2025	40	16,273	16,114
40	5/30/2025	40	16,072	15,914
41	5/31/2025	40	15,872	15,714
42	5/31/2025	40	15,672	15,514

RECEIVED  
Office of Oil and Gas  
NOV 03 2025  
WV Department of  
Environmental Protection

03/13/2026

leaf 30

43	6/1/2025	40	15,472	15,314
44	6/1/2025	40	15,272	15,113
45	6/2/2025	40	15,071	14,913
46	6/2/2025	40	14,871	14,713
47	6/2/2025	40	14,671	14,513
48	6/3/2025	40	14,471	14,313
49	6/3/2025	40	14,271	14,112
50	6/3/2025	40	14,070	13,912
51	6/4/2025	40	13,870	13,712
52	6/4/2025	40	13,670	13,512
53	6/4/2025	40	13,470	13,312
54	6/5/2025	40	13,270	13,111
55	6/5/2025	40	13,069	12,911
56	6/6/2025	40	12,869	12,711
57	6/6/2025	40	12,669	12,511
58	6/6/2025	40	12,469	12,311
59	6/7/2025	40	12,269	12,110
60	6/7/2025	40	12,068	11,910
61	6/8/2025	40	11,868	11,710
62	6/8/2025	40	11,668	11,510
63	6/9/2025	40	11,468	11,310
64	6/9/2025	40	11,268	11,109
65	6/9/2025	40	11,067	10,909
66	6/10/2025	40	10,867	10,709
67	6/10/2025	40	10,667	10,509
68	6/11/2025	40	10,467	10,309
69	6/11/2025	40	10,267	10,108
70	6/11/2025	40	10,066	9,908
71	6/12/2025	40	9,866	9,708
72	6/12/2025	40	9,666	9,508
73	6/13/2025	40	9,466	9,308
74	6/13/2025	40	9,266	9,107

RECEIVED  
Office of Oil and Gas  
NOV 03 2025  
WV Department of  
Environmental Protection

03/13/2026

7 of 30

**ERP 13H**  
Stimulation Report

Stage Number	Report Date	ISIP (psi)	Breakdown Pressure (psi)	Avg Treating Pressure (psi)	Avg Treating Rate (BPM)	Pad Volume (bbls)	Total Clean Fluid (Bbls)	Total Proppant Amount (lbs)	Flush Volume (bbls)
1	5/15/2025	6,058	7,072	9,544	95	429	9,428	301,160	526
2	5/15/2025	6,382	5,115	9,846	95	20	9,537	456,520	522
3	5/15/2025	6,246	6,985	9,962	88		9,632	454,920	517
4	5/15/2025	6,265	6,516	9,956	90	10	9,492	452,700	511
5	5/16/2025	6,464	7,015	9,784	88	94	9,458	455,720	507
6	5/16/2025	6,310	7,004	9,867	90	49	9,667	455,280	502
7	5/17/2025	6,454	7,053	9,943	94	28	9,647	444,880	498
8	5/17/2025	6,376	6,558	9,773	89	20	9,633	453,300	493
9	5/17/2025	6,510	5,304	9,929	95	32	9,550	452,640	489
10	5/18/2025	6,266	7,088	9,935	93	60	9,633	459,860	484
11	5/18/2025	6,277	5,572	9,917	95	46	9,458	453,200	480
12	5/19/2025	6,493	7,499	9,955	92	17	9,671	461,160	476
13	5/19/2025	6,557	5,572	9,934	94	429	9,504	458,940	471
14	5/19/2025	6,554	7,074	9,948	90	77	9,518	448,000	467
15	5/20/2025	6,263	7,013	9,927	93	10	9,584	455,300	462
16	5/20/2025	6,431	7,453	9,848	91	51	9,432	447,720	458
17	5/21/2025	6,578	7,975	9,941	92	10	9,602	453,040	453
18	5/21/2025	6,649	5,673	9,929	93	60	9,491	453,380	449
19	5/21/2025	6,866	7,403	9,958	94	429	9,504	453,860	445
20	5/22/2025	7,015	7,001	9,923	91	10	9,562	456,220	440
21	5/22/2025	6,194	6,825	9,905	98	32	9,418	454,000	436
22	5/22/2025	6,101	7,348	9,842	95	429	9,618	457,180	431
23	5/23/2025	6,363	7,690	9,862	93	60	9,517	454,180	427
24	5/23/2025	6,039	7,183	9,930	95	429	9,497	453,020	422
25	5/24/2025	6,385	7,319	9,937	95	10	9,455	455,540	418
26	5/24/2025	6,532	7,230	9,748	92	43	9,507	451,300	414
27	5/24/2025	6,599	7,314	9,928	96	429	9,559	454,940	409
28	5/25/2025	6,618	6,570	9,887	96	45	9,474	452,200	405
29	5/26/2025	6,171	7,480	9,898	96	10	9,504	453,720	400
30	5/25/2025	5,962	6,890	8,837	93	10	8,446	452,340	396
31	5/26/2025	6,362	7,765	9,852	95	429	8,515	456,380	391
32	5/27/2025	6,369	7,847	9,725	93	10	8,447	453,820	387
33	5/28/2025	6,533	7,653	9,781	96	429	8,509	459,040	383
34	5/28/2025	6,459	6,844	9,620	95	10	8,550	457,700	378
35	5/28/2025	6,482	4,603	9,713	95	429	8,363	452,820	374
36	5/29/2025	5,951	7,233	9,761	96	429	8,493	454,560	500
37	5/29/2025	5,623	5,708	9,815	93	10	8,466	453,460	365
38	5/29/2025	6,096	7,683	9,885	95	429	8,618	456,340	361
39	5/30/2025	6,065	8,388	9,768	97	10	8,574	455,040	356
40	5/30/2025	5,997	5,667	9,857	96	10	8,483	458,020	352
41	5/31/2025	5,889	5,889	9,650	92	10	8,574	461,860	347

RECEIVED  
Texas Department of Oil and Gas  
MAY 03 2025  
Texas Department of Environmental Protection

03/13/2026

80630

42	5/31/2025	5,890	8,403	9,922	99	10	8,477	454,520	343
43	6/1/2025	6,675	7,051	9,761	95	10	8,497	460,640	338
44	6/1/2025	6,159	7,431	9,777	97	10	8,277	444,700	334
45	6/2/2025	6,574	7,715	9,724	97	10	8,569	459,240	330
46	6/2/2025	6,500	5,381	9,500	97	10	8,462	457,460	325
47	6/2/2025	6,795	8,756	9,769	95	10	8,417	457,320	321
48	6/3/2025	5,808	8,480	9,527	96	10	8,435	455,120	316
49	6/3/2025	4,926	9,541	9,871	90	10	8,483	451,780	312
50	6/3/2025	5,221	7,673	9,900	96	10	8,430	456,260	307
51	6/4/2025	5,122	8,557	9,822	96	10	8,457	457,400	303
52	6/4/2025	6,556	9,018	9,646	94	10	8,439	455,620	299
53	6/4/2025	4,987	8,289	9,783	94	10	8,854	460,120	294
54	6/5/2025	6,804	8,260	9,390	96	10	8,508	453,480	290
55	6/5/2025	6,321	8,949	9,548	96	10	9,663	457,300	285
56	6/6/2025	6,504	8,451	9,457	98	10	9,386	451,800	281
57	6/6/2025	5,782	8,537	9,324	97	10	9,853	465,700	276
58	6/6/2025	5,845	8,048	9,451	96	10	8,870	455,880	272
59	6/7/2025	6,637	7,572	9,110	95	10	9,886	453,120	268
60	6/7/2025	6,199	8,092	9,096	97	10	9,354	453,040	263
61	6/8/2025	6,631	8,535	8,966	96	10	9,510	457,900	259
62	6/8/2025	5,745	7,675	8,801	98	10	9,732	456,200	254
63	6/9/2025	5,603	7,510	8,931	97	10	9,581	449,880	250
64	6/9/2025	5,384	7,791	9,201	97	10	9,614	455,260	245
65	6/9/2025	5,522	7,926	9,332	97	10	9,563	454,340	241
66	6/10/2025	6,609	7,240	8,972	94	10	9,416	454,880	237
67	6/10/2025	5,449	7,217	8,809	98	10	9,501	452,760	232
68	6/11/2025	4,942	7,710	8,783	96	10	9,765	458,240	228
69	6/11/2025	5,264	7,316	8,627	99	10	9,559	458,340	224
70	6/11/2025	5,362	7,509	8,669	99	10	9,414	456,480	220
71	6/12/2025	5,024	7,631	8,679	94	10	9,360	441,360	216
72	6/12/2025	6,163	7,323	8,746	100	10	9,412	453,680	429
73	6/13/2025	5,981	8,027	8,642	98	10	9,250	451,800	207
74	6/13/2025	5,347	6,927	8,559	100	10	9,583	458,020	202

RECEIVED  
Office of Oil and Gas  
NOV 03 2025  
WV Department of  
Environmental Protection

03/13/2026

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

RECEIVED  
 Office of Oil and Gas  
 NOV 03 2025  
 WV Department of  
 Environmental Protection

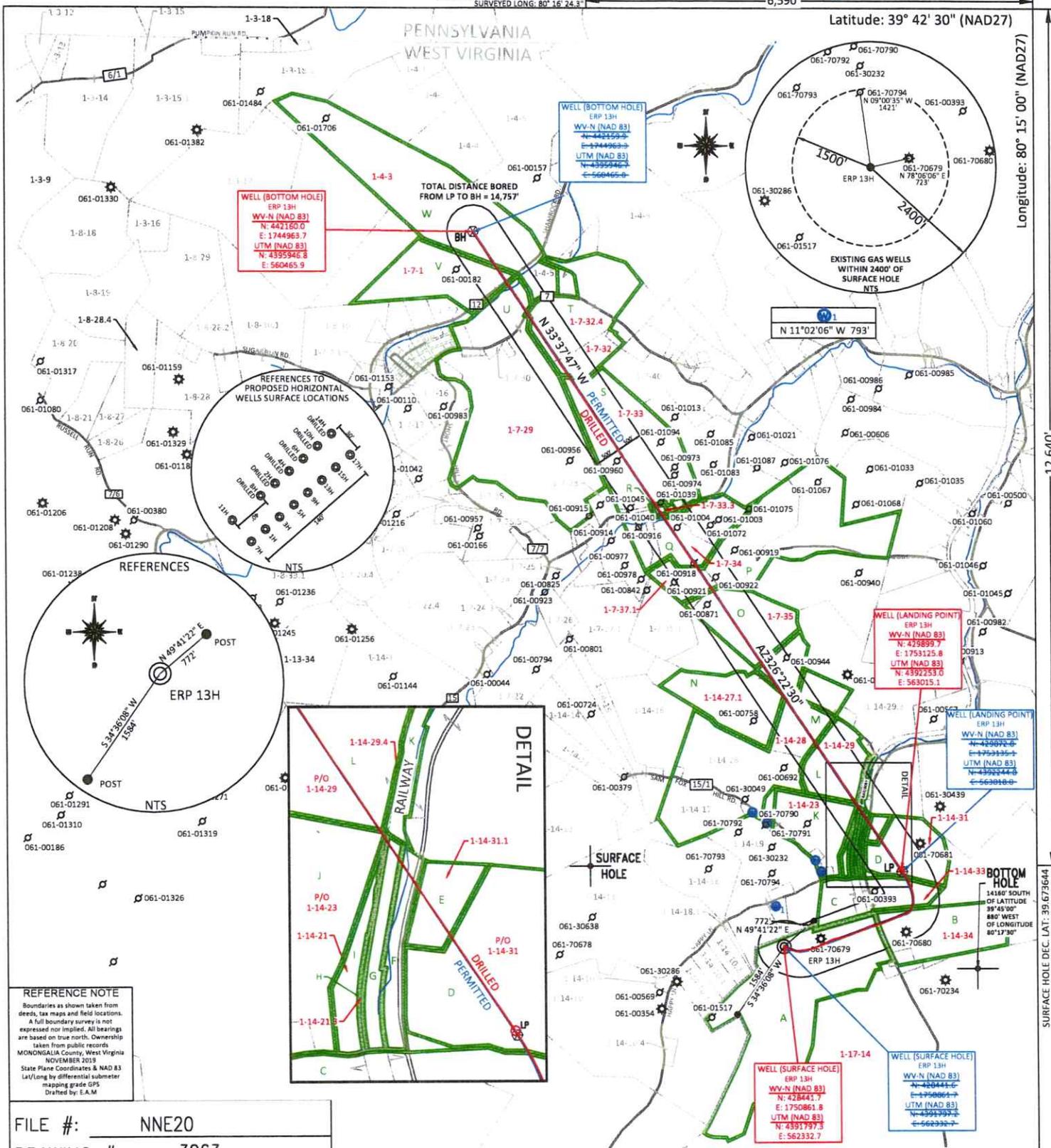
906 30









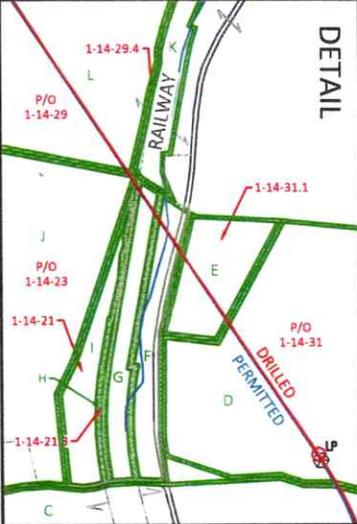
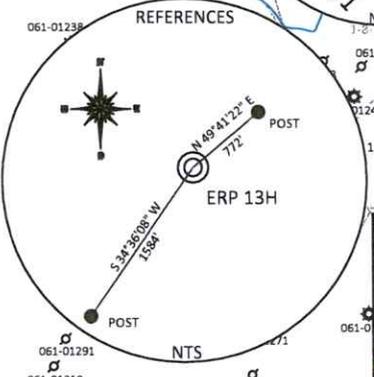
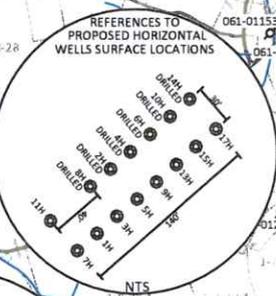


**WELL (BOTTOM HOLE)**  
ERP 13H  
WV-N (NAD 83)  
N: 4421563.0  
E: 5644965.9  
UTM (NAD 83)  
N: 4355946.8  
E: 560465.9

**WELL (BOTTOM HOLE)**  
ERP 13H  
WV-N (NAD 83)  
N: 4421563.0  
E: 5644965.9  
UTM (NAD 83)  
N: 4355946.8  
E: 560465.9

**WELL (LANDING POINT)**  
ERP 13H  
WV-N (NAD 83)  
N: 425899.7  
E: 1753125.8  
UTM (NAD 83)  
N: 4392253.0  
E: 563015.1

**WELL (SURFACE HOLE)**  
ERP 13H  
WV-N (NAD 83)  
N: 428441.7  
E: 1750861.8  
UTM (NAD 83)  
N: 4391797.3  
E: 562332.7



**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 #: 3063  
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: [Signature]



(+) 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 / BATTLELLE  
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 13H (AS-DRILLED)  
API WELL #: 47 61 01962  
STATE COUNTY PERMIT  
AS-BUILT ELEVATION: 1,338.6'  
QUADRANGLE: WADESTOWN  
ACREAGE: 1421.197 +/-  
ACREAGE: 146.703 +/-

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: 8,008' TMD: 23,919'  
DESIGNATED AGENT: JOHN ADAMS  
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200  
CITY: CHARLESTON STATE: WV ZIP CODE: 25301

SURFACE HOLE DEC. LAT: 39° 42' 30.00"  
SURVEYED LAT: 39° 40' 25.1"

03/13/2026

PROPERTY OWNER INDEX	
1-4-3	CONSOL MINING COMPANY LLC
1-7-1	CONSOL MINING COMPANY LLC
1-7-29	CLOVIS FAMILY IRREVOCABLE TRUST DATED MAY 23 2011 (LIFE)
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
1-7-33.3	WILLIAM & ADA BROWN EDDY (LIFE HELEN L EDDY-GARDEN AREA)
1-7-34	BUCK & LINDA HENNEN
1-7-35	ROGER L & CARMEN M SEAMAN
1-7-37.1	RIFF & THERESA HENNEN
1-14-21	FRED, NORMA & ASHLEY V WILLIAMS
1-14-21.3	EASTERN ASSOCIATED COAL CORP
1-14-23	MELISSA DAWN HUNT
1-14-27.1	RUSSELL L & VA M TOOTHMAN
1-14-28	RUSSELL L & VA M TOOTHMAN
1-14-29	DELBERT RAY & LEORA CORDER
1-14-29.4	EASTERN ASSOCIATED COAL CORP
1-14-31	LELAND TENNANT
1-14-31.1	JAMIE ALAN & BRITTANY MAE BRUMMAGE
1-14-33	GLENN N & ORPHA J REED
1-14-34	EASTERN ASSOCIATED COAL CORP
1-17-14	PHOENIX FEDERAL MINING COMPLEX LLC

LEASE INDEX			
A	WV-061-005667-001	M	WV-061-005810-037
B	WV-061-005667-001	N	WV-061-000208-001-JOA
C	WV-061-000208-001-JOA	O	WV-061-000208-001-JOA
D	WV-061-005754-001	P	WV-061-000195-001-JOA1
E	WV-061-005651-001	Q	WV-061-005230-001
F	WV-061-005709-003	R	WV-061-006384-001
G	WV-061-000208-001-JOA	S	WV-061-006166-001
H	WV-061-006565-001	T	WV-061-006635-001
I	WV-061-005874-001	U	WV-061-004218-004
J	WV-061-005845-025	V	WV-061-004196-001
K	WV-061-000195-001-JOA	W	WV-061-000195-001-JOA
L	WV-061-000195-001-JOA	X	WV-061-000208-001-JOA

03/13/2026

FILE #: <u>NEE20</u>	DATE: <u>JULY 31, 2025</u>
DRAWING #: <u>3063</u>	OPERATOR'S WELL #: <u>ERP 13H (AS-DRILLED)</u>
SCALE: <u>N/A</u>	API WELL #: <u>47</u> <u>61</u> <u>01962</u> STATE COUNTY PERMIT

29 of 30

## Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	05/15/2025
Job End Date:	06/13/2025
State:	West Virginia
County:	Monongalia
API Number:	47-061-01962-00-00
Operator Name:	Northeast Natural Energy LLC
Well Name and Number:	ERP 13H
Latitude:	39.673724
Longitude:	-80.273215
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	9105
Total Base Water Volume (gal)*:	29643012
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					

RECEIVED  
Office of Oil and Gas  
NOV 03 2025  
WV Department of Environmental Protection

Items above are Trade Names. Items below are the individual ingredients.

			Water	7732-18-5	100.00000	87.93872	None
			Crystalline Silica in the form	14808-60-7	99.90000	11.89500	None

03/13/2026

30 of 30

			of Quartz				
			ACRYLAMIDE- CHLORIDE SALT OF TRIMETHYLAMMONIO- ETHYL ACRYLATE COPOLYMER	69418-26-4	40.00000	0.03268	None
			ALKANES, C12-26- BRANCHED AND LINEAR	90622-53-0	40.00000	0.03268	None
			Hydrogen chloride	7647-01-0	28.00000	0.01224	None
			Glutaraldehyde	111-30-8	20.00000	0.00428	None
			ETHOXYLATED ALCOHOLS (C12-16)	68551-12-2	5.00000	0.00409	None
			AA/Maleic Anhydride Co- polymer	9003-04-7	10.00000	0.00367	None
			AA/ATBS Co-polymer	9003-05-8	10.00000	0.00367	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	0.00007	None
			Pyridinium, 1- (phenylmethyl)-, ethyl methyl derivs., chlorides	68909-18-2	25.00000	0.00007	None
			Ethanoic Acid	Proprietary	15.00000	0.00004	None
			Ethoxylated Alcohols	Proprietary	15.00000	0.00004	None
			2-ethylhexanol	104-76-7	5.00000	0.00001	None
			Ethoxylated Nonylphenols	127087-87- 0	5.00000	0.00001	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)

RECEIVED  
Office of Oil and Gas  
NOV 03 2025  
WV Department of  
Environmental Protection

03/13/2026