



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Monday, July 10, 2023
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

NORTHEAST NATURAL ENERGY LLC
707 VIRGINIA STREET EAST
STE 1200
CHARLESTON, WV 25301

Re: Permit Modification Approval for DOLLS RUN 5H
47-061-01930-00-00

Lateral Extension

NORTHEAST NATURAL ENERGY LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

A blue ink signature of James A. Martin, written in a cursive style.

James A. Martin
Chief

Operator's Well Number: DOLLS RUN 5H
Farm Name: BRYAN & SIERRA VANNORMAN
U.S. WELL NUMBER: 47-061-01930-00-00
Horizontal 6A New Drill
Date Modification Issued: 07/10/2023

Promoting a healthy environment.

07/14/2023

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Northeast Natural Energy 494498281 Monongalia Clay Osage
Operator ID County District Quadrangle

2) Operator's Well Number: 5H Well Pad Name: Dolls Run

3) Farm Name/Surface Owner: Bryan & Sierra VanNorman Public Road Access: Little Indian Creek Rd/SR 41

4) Elevation, current ground: 1,535' Elevation, proposed post-construction: 1,521'

5) Well Type (a) Gas Oil _____ Underground Storage _____
Other _____

(b) If Gas Shallow Deep _____
Horizontal

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 8,029', 110', 5.200 psi

8) Proposed Total Vertical Depth: 8,074'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 23,813'

11) Proposed Horizontal Leg Length: 14,850'

12) Approximate Fresh Water Strata Depths: 50', 890'

13) Method to Determine Fresh Water Depths: offset wells

14) Approximate Saltwater Depths: 2,299'

15) Approximate Coal Seam Depths: 399', 890'

16) Approximate Depth to Possible Void (coal mine, karst, other): NA

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

Gayne Knitowski
Digitally signed by Gayne Knitowski
Date: 2023.06.23 08:19:03 -0400

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26"	New	NA	NA	100	100' ✓	GTS
Fresh Water	13-3/8"	New	J-55	54.5	1,070'	1,040' ✓	CTS
Coal							
Intermediate	9-5/8"	New	J-55	36	2,530'	2,500' ✓	CTS
Production	5-1/2"	New	P-110	20	23,813'	23,783' ✓	5764
Tubing	2-7/8"	New	P-110	6.5	NA		
Liners							

Gayne Knitowski
Digitally signed by Gayne Knitowski
 Date: 2023.06.23 08:19:25 -0400 ✓

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	26"	28"	0.375	NA	NA	Type 1	1.18
Fresh Water	13-3/8"	17-1/2"	0.380	2,730	500	✓ Class A or L	1.19
Coal							
Intermediate	9-5/8"	12-3/8"	0.395	3,520	2,800	Class A or L	1.19
Production	5-1/2"	8-3/4"	0.361	14,360 ✓	11,400	50:50 POZ	1.07
Tubing	2-7/8"	NA	0.271	13,870	NA	NA	NA
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Utilize auger rig to set cellar & conductor. The conductor will be grouted with cement to surface. Mobilize top hole drilling rig. Drill surface section on air. Run surface (freshwater & coal string) casing to desired depth. The surface section will not penetrate sea level. Surface casing will be cemented to surface. Drill intermediate section on air. Run intermediate casing to desired depth. Intermediate casing will be cemented to surface. Drill on air the production section to the start of the curve (KOP). The well will be loaded with synthetic oil base drilling mud (SOBM). Demobilize top hole rig. Mobilize horizontal drilling rig. Finish drilling the production section utilizing MWD surveys and geosteering practices to maintain the wellbore in the Marcellus shale and prevent anti-collision. Production casing will be ran to TD and cement top will be inside the intermediate casing.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

A cement bond log will determine the top of production casing cement. The production casing will be pressure tested. The hydraulic fracturing equipment will then open the toe sleeves and begin pumping the first stage. The plug-and-perf method will be used for the remaining stages. The max anticipated pressure during frac is 11,200psi and a max rate of 90bpm. After frac, the drillout rig will drill all plugs out of the well. Land production tubing at desired depth. Then flowback well until ready to turn in line to production facilities.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 27.36

22) Area to be disturbed for well pad only, less access road (acres): 10.01

23) Describe centralizer placement for each casing string:

Surface: shoe track & every 3rd joint to surface
Intermediate: shoe track & every 3rd joint to surface
Production: Rigid bow centralizers at shoe track & every other joint in the lateral to KOP. Bow springs from KOP to surface every third joint.

24) Describe all cement additives associated with each cement type:

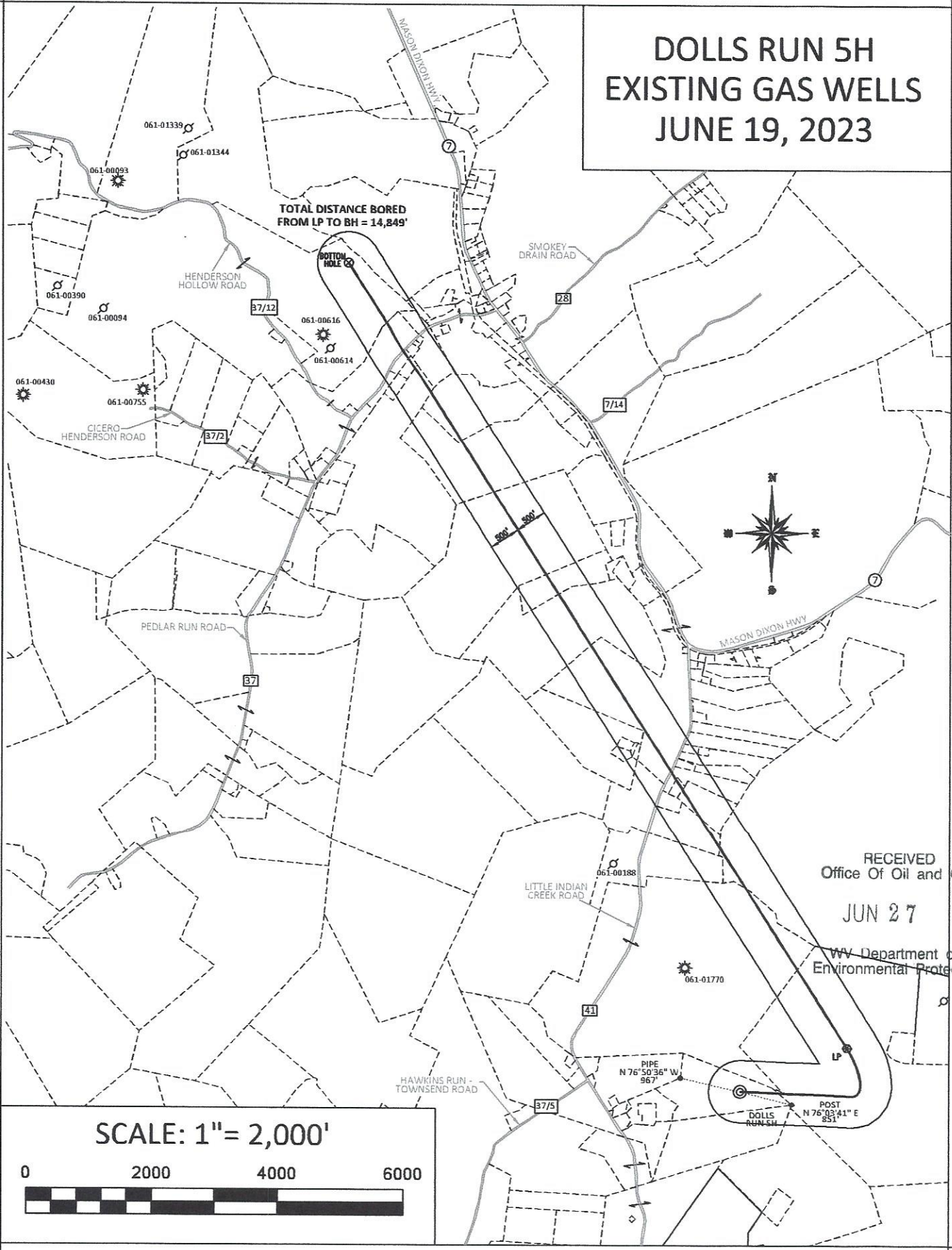
Surface: Class A or L Cement + Max 3% bwoc Calcium Chloride Fresh Water blend.
Intermediate: Class A or L Cement + Max 3% bwoc Calcium Chloride + Fresh Water.
Production: 50:50 Poz (Fly Ash & Class A or L) plus additives such as defoamer, retarder, & fluid loss to meet well specific requirements

25) Proposed borehole conditioning procedures:

Surface & intermediate on air will utilize high volumetric flow rates of air to ensure the wellbore is clean prior to TOH. Production section will utilize synthetic oil based drilling mud to properly clean the wellbore. At TD, pump rate and rotation will be maximized and tripping will not begin until shakers flow clean. Production casing will be circulated prior to cementing to ensure a prepared wellbore for cement.

*Note: Attach additional sheets as needed.

DOLLS RUN 5H EXISTING GAS WELLS JUNE 19, 2023



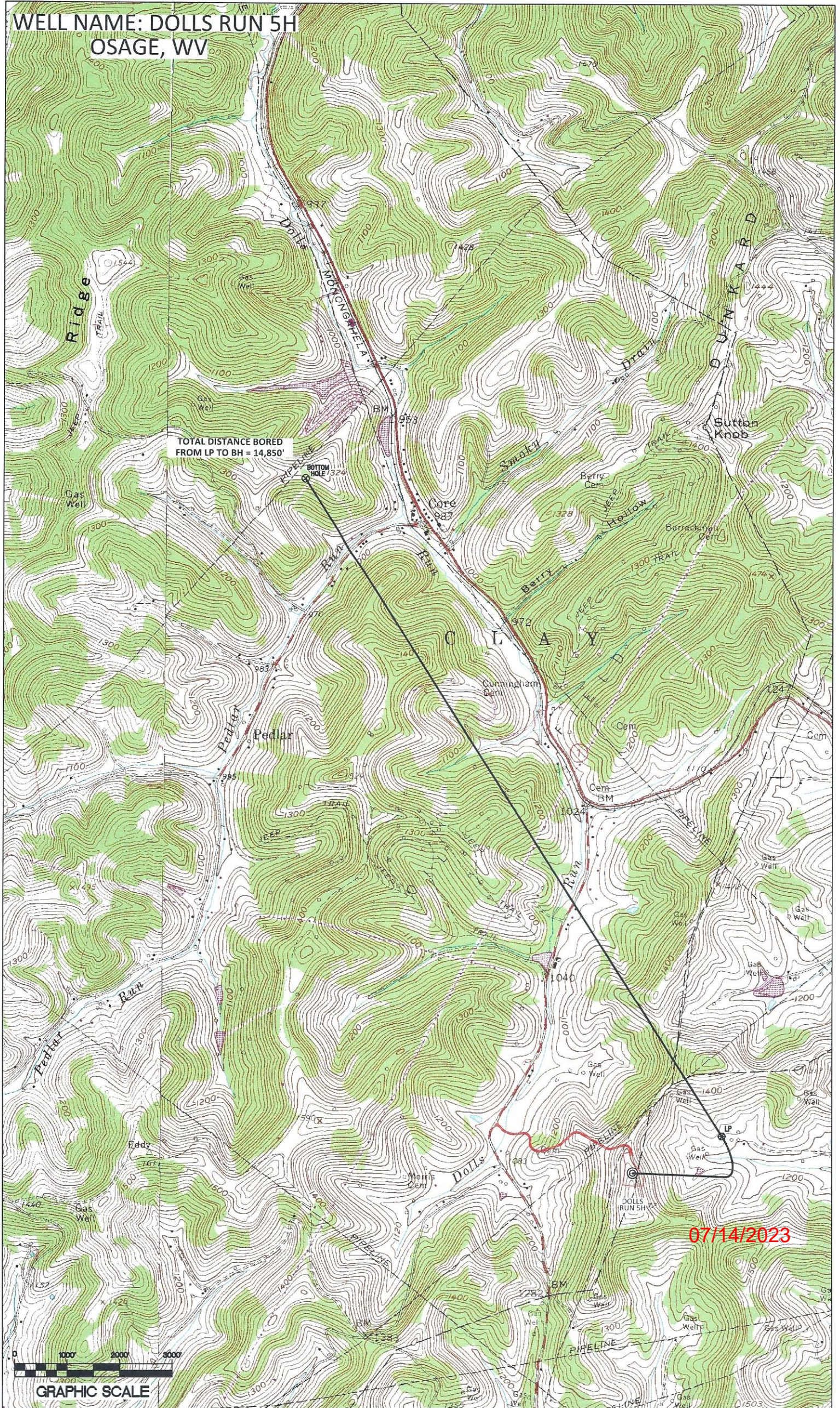
RECEIVED
Office Of Oil and Gas
JUN 27
WV Department of
Environmental Protection

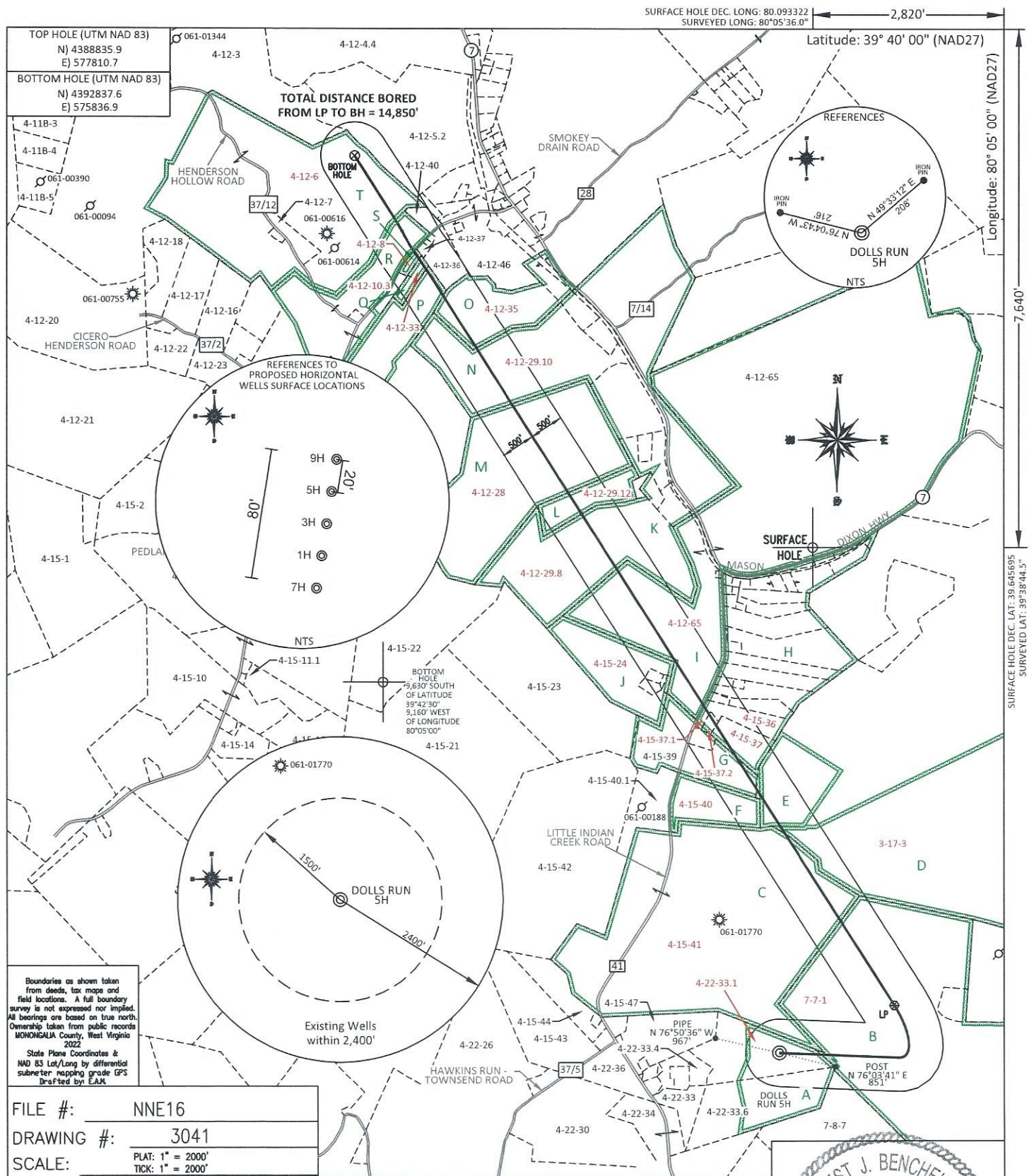
07/14/2023

WELL NAME: DOLLS RUN 5H
OSAGE, WV

TOTAL DISTANCE BORED
FROM LP TO BH = 14,850'

07/14/2023



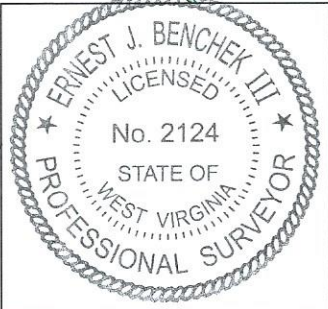


Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records MONONGALIA County, West Virginia 2022. State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS Traffic by EAM.

FILE #: NNE16
 DRAWING #: 3041
 SCALE: PLAT: 1" = 2000'
TICK: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

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: BRYAN & SIERRA VANNORMAN
 OIL & GAS ROYALTY OWNER: MARK V EDDY
 LEASE NUMBERS: _____

DATE: JUNE 21, 2023
 OPERATOR'S WELL #: DOLLS RUN 5H
 API WELL #: 47 61 01930
 STATE COUNTY PERMIT

PROPOSED ELEVATION: 1,521.9'
 QUADRANGLE: OSAGE
 ACREAGE: 27.74 **07/14/2023**
 ACREAGE: 1,59.08 +/-

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
 ESTIMATED DEPTH: TVD: 8,074' TMD: 23,813'
 WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC
 DESIGNATED AGENT: JOHN ADAMS
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

PROPERTY OWNER INDEX	
3-17-3	PENN PLASTIC CO
4-12-6	ALPHEUS MICHAEL HENDERSON
4-12-8	JOHN F BELL JR & VIVIAN J BELL
4-12-10.3	MAVIS I EDDY
4-12-28	MELISSA T HETTMAN & ERIN ALLEN
4-12-29.8	MELISSA T HETTMAN & ERIN ALLEN
4-12-29.10	DEANNA S TENNANT
4-12-29.12	MELISSA T HETTMAN & ERIN ALLEN
4-12-30	ROBERT C WALLS FAMILT TRUST (LIFE- DIANA LYNN WALLS)
4-12-33	JOHN F BELL JR & VIVIAN J BELL
4-12-35	ROBERT LYNN CORE
4-12-65	BLAKE R & H PRESTON BOGGESS
4-15-36	GEORGE E & MARGARET A REEL
4-15-37	LEROY E & GLENNA J TENNANT LEGACY PROTECTOR TRUST
4-15-37.1	LEROY E & GLENNA J TENNANT LEGACY PROTECTOR TRUST
4-15-37.2	LEROY E & GLENNA J TENNANT LEGACY PROTECTOR TRUST
4-15-38	LEROY E & GLENNA J TENNANT LEGACY PROTECTOR TRUST
4-15-40	LEROY E & GLENNA J TENNANT LEGACY PROTECTOR TRUST
4-15-41	DONNA N & ROBERT ALLEN WRIGHT
4-22-33.1	DENNIS J & MELINDA S THORNE
4-15-24	RICHARD L & THOMASINE WEBER
7-7-1	OWEN REALTY CO INC

LEASE INDEX			
A	WV-061-004020-000	K	WV-061-006385-001
B	WV-061-086230-001	L	WV-061-004662-000
C	WV-061-005246-002	M	WV-061-001111-008
D	WV-061-106300-001	N	WV-061-006385-001
E	WV-061-086005-001	O	WV-061-004267-001
F	WV-061-006385-001	P	WV-061-002357-000
G	WV-061-006385-001	Q	WV-061-006044-002
H	WV-061-003269-003	R	WV-061-003768-014
I	WV-061-003269-003	S	WV-061-005143-003
J	WV-061-005524-007	T	WV-061-003525-012

07/14/2023

FILE #: NEE14

DRAWING #: 3041

SCALE: N/A

DATE: JUNE 21, 2023

OPERATOR'S WELL #: DOLLS RUN 5H

API WELL #: 47 61 01930
STATE COUNTY PERMIT

WW-6A1
(5/13)

Operator's Well No. Dolls Run 5H

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
See Attached				

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Northeast Natural Energy
 By: Hollie Medley *Hollie Medley*
 Its: Regulatory Manager

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07/14/2023

WW6A-1

Operators Well No. Dols Run 5H

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
A	WV-061-004020-000	Mark V. Eddy	Northeast Natural Energy, LLC	12.5% Royalty or More	1505	572
	WV-061-002154-006	Donald Ayersman	Northeast Natural Energy, LLC	12.5% Royalty or More	1786	413
	WV-061-002154-008	Raymond D. Williams	Northeast Natural Energy, LLC	12.5% Royalty or More	1786	650
	WV-061-002154-005	Deloris Hoey	Northeast Natural Energy, LLC	12.5% Royalty or More	1786	411
	WV-061-086230-001	Stuman Inc.	Northeast Natural Energy, LLC	12.5% Royalty or More	1800	88
C	WV-061-005246-002	Beverly J. Core	Northeast Natural Energy, LLC	12.5% Royalty or More	1642	145
	WV-061-106300-001	Penn Plastics Company	NNE Land, LLC	12.5% Royalty or More	1807	463
D	WV-061-086300-001	Penn Plastics Company	Marion Natural Energy, LLC	12.5% Royalty or More	1807	463
	WV-061-086005-001	David Henderson and Mary Henderson	Union Utility Company	12.5% Royalty or More	103	457
E	WV-061-005246-002	Union Utility Company and Harry R. Warfield	Union Utilities Company	12.5% Royalty or More	104	109
	WV-061-005246-002	Union Utilities Company	West Virginia Traction and Electric Company	12.5% Royalty or More	121	120
F	WV-061-003269-003	John J. Coniff and Joseph D. Whittemore, as Commissioners, Joseph D. Whittemore, as Receiver of the West Virginia Traction and Electric Company, appointed by the U.S. District Court for the Northern District of West Virginia, Joseph D. Whittemore and Francis R. Harbison, as ancillary Receivers, and West Virginia Traction and Electric Company	West Virginia Utilities Company	12.5% Royalty or More	164	140
	WV-061-003269-003	West Virginia Utilities Company	The Morgantown Water Company	12.5% Royalty or More	216	446
G	WV-061-005244-004	West Virginia Utilities Company	Monongahela West Penn Public Service Company	12.5% Royalty or More	216	454
	WV-061-005244-004	Monongahela Power Company	Monongahela Power Company	12.5% Royalty or More	458	322
H	WV-061-005244-012	Hope Natural Gas Company	Hope Natural Gas Company	12.5% Royalty or More	633	144
	WV-061-005244-017	Consolidated Gas Supply Company	Consolidated Gas Supply Corporation	12.5% Royalty or More	633	144
I	WV-061-005244-018	Consolidated Gas Supply Company (Hope Natural Gas Company)	GNG Producing Company (Dominion Exploration and Production, Inc.	12.5% Royalty or More	1132	4
	WV-061-005244-018	Dominion Exploration and Production, Inc.	Antero Resources Appalachia Corporation (Antero Resources Corporation)	12.5% Royalty or More	102	797
J	WV-061-006385-001	Antero Resources Corporation	NNE Land, LLC	12.5% Royalty or More	158	101
	WV-061-006385-001	CNX Gas Company, LLC	Northeast Natural Energy, LLC	12.5% Royalty or More	1812	592
K	WV-061-006385-001	CNX Gas Company, LLC	Northeast Natural Energy, LLC	12.5% Royalty or More	1812	592
	WV-061-006385-001	Blake R. Boggess and H. Preston Boggess	Northeast Natural Energy, LLC	12.5% Royalty or More	1509; 1510	698; 607
L	WV-061-005244-004	Blake R. Boggess and H. Preston Boggess	Northeast Natural Energy, LLC	12.5% Royalty or More	1509; 1510	698; 607
	WV-061-005244-004	Gregg V. Barbe	Northeast Natural Energy, LLC	12.5% Royalty or More	1786	421
M	WV-061-005244-005	Anita Hudson	Northeast Natural Energy, LLC	12.5% Royalty or More	1657	436
	WV-061-005244-005	Richard E. King	Northeast Natural Energy, LLC	12.5% Royalty or More	1786	417
N	WV-061-005244-012	Shirley F. Zupper	Northeast Natural Energy, LLC	12.5% Royalty or More	1787	48
	WV-061-005244-017	Kevin L. Johnson	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	624
O	WV-061-005244-009	Michael Scott Gooden	Northeast Natural Energy, LLC	12.5% Royalty or More	1786	425
	WV-061-005244-018	Sherri Gooden Davis	Northeast Natural Energy, LLC	12.5% Royalty or More	1805	660
P	WV-061-005244-006	Tacia Lynn Smith Thompson	Northeast Natural Energy, LLC	12.5% Royalty or More	1786	419
	WV-061-005244-016	Lee Ann Gooden Lippencott	Northeast Natural Energy, LLC	12.5% Royalty or More	1789	354
Q	WV-061-005244-010	Paul Francis Gooden	Northeast Natural Energy, LLC	12.5% Royalty or More	1786	427
	WV-061-006385-001	CNX Gas Company, LLC	Northeast Natural Energy, LLC	12.5% Royalty or More	1812	592
R	WV-061-004662-000	Melissa T. Hettman	Northeast Natural Energy, LLC	12.5% Royalty or More	1604; 1786	242; 649
	WV-061-001111-008	Adam Cunningham	E.M. Hukill	12.5% Royalty or More	25	393
S	WV-061-001111-008	Edwin M. Hukill	South Penn Oil Company	12.5% Royalty or More	31	262
	WV-061-001111-008	South Penn Oil Company	Marion Oil Company	12.5% Royalty or More	31	286
T	WV-061-001111-008	Marion Oil Company	Washington Oil Company	12.5% Royalty or More	219	115
	WV-061-001111-008	Washington Oil Company	Northern United Petroleum Company	12.5% Royalty or More	9	148
U	WV-061-001111-008	Northern United Petroleum Company	United Petroleum Corporation	12.5% Royalty or More	9	217
	WV-061-001111-008	United Petroleum Corporation	Northern United Petroleum Company	12.5% Royalty or More	9	177; 210
V	WV-061-001111-008	Northern United Petroleum Company	United Petroleum Corporation	12.5% Royalty or More	9	282
	WV-061-001111-008	United Petroleum Corporation	Chill Can International, Ltd.	12.5% Royalty or More	9	329
W	WV-061-001111-008	Chill Can International, Ltd.	Jerome Klubeck	12.5% Royalty or More	9	677
	WV-061-001111-008	Jerome Klubeck	N-K, LLC	12.5% Royalty or More	1215	380
X	WV-061-001111-008	N-K, LLC	Northeast Natural Energy, LLC	12.5% Royalty or More	130	840
	WV-061-001111-008	Northeast Natural Energy, LLC	Northeast Natural Energy, LLC	12.5% Royalty or More	1509; 1510	698; 607

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
N	WV-061-006385-001	CNX Gas Company, LLC	Northeast Natural Energy, LLC	12.5% Royalty or More	1812	592
	WV-061-004267-001	Beverly J. Core	Northeast Natural Energy, LLC	12.5% Royalty or More	1645	352
O	WV-061-003586-001	Charles L. Core, a/k/a Charles Lawrence Core	Northeast Natural Energy, LLC	12.5% Royalty or More	1646	666
	WV-061-004404-001	Westhawk Minerals, LLC	Northeast Natural Energy, LLC	12.5% Royalty or More	132	537
P	WV-061-004308-001	William B. Core	Northeast Natural Energy, LLC	12.5% Royalty or More	1644	9
	WV-061-004263-001	Paula Kay Jenkins	Northeast Natural Energy, LLC	12.5% Royalty or More	1645	348
Q	WV-061-003586-003	Susan Beth Kish, a/k/a Susan Beth Core Kish	Northeast Natural Energy, LLC	12.5% Royalty or More	1645	350
	WV-061-004264-001	Golden Eagle Resources II, LLC	Northeast Natural Energy, LLC	12.5% Royalty or More	141	403
R	WV-061-001368-003	June Core Myers Living Trust dated August 2, 2013	Northeast Natural Energy, LLC	12.5% Royalty or More	1644	7
	WV-061-001368-002	Kimberly Dawn Schnopp, a/k/a Kimberly Schnapp, a/k/a Kimberly Schnopp	Northeast Natural Energy, LLC	12.5% Royalty or More	1600	590
S	WV-061-002357-000	Robert Clair Wallis Family Trust	Northeast Natural Energy, LLC	12.5% Royalty or More	1629; 1808	110; 182
	WV-061-006044-002	Augusta Regional SPCA, Inc., a VA Corporation	Northeast Natural Energy, LLC	12.5% Royalty or More	1810	106
T	WV-061-006044-001	Delores Dean	Northeast Natural Energy, LLC	12.5% Royalty or More	1788	530
	WV-061-003768-014	Ina Carolyn Webb	Northeast Natural Energy, LLC	12.5% Royalty or More	1690	319
U	WV-061-003768-018	Janice Kay Curry	Northeast Natural Energy, LLC	12.5% Royalty or More	1690	319
	WV-061-003768-015	Betty S. Curry, f/k/a Betty C. McDougal	Northeast Natural Energy, LLC	12.5% Royalty or More	1690	213
V	WV-061-003594-009	John Reed Berry	Northeast Natural Energy, LLC	12.5% Royalty or More	1690	320
	WV-061-003768-016	Suzanne Gripper	Northeast Natural Energy, LLC	12.5% Royalty or More	1800	420
W	WV-061-006028-015	Amie Y. Bearden	Northeast Natural Energy, LLC	12.5% Royalty or More	1690	320
	WV-061-005965-003	Judith Lucas Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1800	420
X	WV-061-003768-021	Shirley D. Berry	Northeast Natural Energy, LLC	12.5% Royalty or More	1690	321
	WV-061-005964-010	Scott Steven Young	Northeast Natural Energy, LLC	12.5% Royalty or More	1799	448
Y	WV-061-006028-006	Wanda Anderson	Northeast Natural Energy, LLC	12.5% Royalty or More	1800	422
	WV-061-006028-018	Jennifer Albert, f/k/a Jennifer Butz	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	572
Z	WV-061-005964-002	James L. Anderson	Northeast Natural Energy, LLC	12.5% Royalty or More	1800	436
	WV-061-006028-011	Gary Ralph Straight	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	456
AA	WV-061-005965-002	Glen William Straight	Northeast Natural Energy, LLC	12.5% Royalty or More	1796	311
	WV-061-006028-004	Jean A. Sproull, a/k/a Jean Ann Sproull	Northeast Natural Energy, LLC	12.5% Royalty or More	1781	585
AB	WV-061-005964-007	Cheryl Lane Gould, a/k/a Cheryl Lane Dunbar, a/k/a Sherry Dunbar-Gould	Northeast Natural Energy, LLC	12.5% Royalty or More	1789	342
	WV-061-005964-006	Betty Rose Henry	Northeast Natural Energy, LLC	12.5% Royalty or More	1798	424
AC	WV-061-003768-019	Donald Morley	Northeast Natural Energy, LLC	12.5% Royalty or More	1799	442
	WV-061-005964-001	Deborah K. Weatherby	Northeast Natural Energy, LLC	12.5% Royalty or More	1690	215
AD	WV-061-005965-001	Loretta Hardesty	Northeast Natural Energy, LLC	12.5% Royalty or More	1781	579
	WV-061-003768-022	Margie Kay Rogan	Northeast Natural Energy, LLC	12.5% Royalty or More	1781	583
AE	WV-061-006028-003	John Paul Berry a/k/a John Berry	Northeast Natural Energy, LLC	12.5% Royalty or More	1690	221
	WV-061-006028-010	Robert Berry	Northeast Natural Energy, LLC	12.5% Royalty or More	1789	340
AF	WV-061-006028-002	John F. Pafford III	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	580
	WV-061-006028-008	Deena Albers, a/k/a Deena Berry Albers	Northeast Natural Energy, LLC	12.5% Royalty or More	1789	338
AG	WV-061-006028-012	Betty Sander	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	576
	WV-061-006028-009	Ronald A. Bartlett	Northeast Natural Energy, LLC	12.5% Royalty or More	1796	313
AH	WV-061-006028-007	Nora Bartlett	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	578
	WV-061-003768-008	Carol Gregg, a/k/a Carol Bobo Gregg	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	574
AI	WV-061-003768-010	Mary Jo Bobo Gregg	Northeast Natural Energy, LLC	12.5% Royalty or More	1690	317
	WV-061-005964-003	Lynne Labadie, f/k/a Lynne Farrington	Northeast Natural Energy, LLC	12.5% Royalty or More	1693	689
AJ	WV-061-005964-004	Ellen K. McGuire, f/k/a Ellen McGuire Christler, f/k/a Ellen Farrington	Northeast Natural Energy, LLC	12.5% Royalty or More	1796	305
	WV-061-006028-005	Nancy B. Robison, a/k/a Nancy Bish Robison	Northeast Natural Energy, LLC	12.5% Royalty or More	1796	308
AK	WV-061-006028-001	Melinda M. Stewart, a/k/a Malinda Ann Stewart	Northeast Natural Energy, LLC	12.5% Royalty or More	1789	492
	WV-061-003768-006	Larry A. Londot	Northeast Natural Energy, LLC	12.5% Royalty or More	1788	576
AL	WV-061-003768-007	Linda Cantrell	Northeast Natural Energy, LLC	12.5% Royalty or More	1690	315
	WV-061-005183-004	Frank H. and Collen K. Dunlap	Northeast Natural Energy, LLC	12.5% Royalty or More	1690	316
AM	WV-061-006028-025	Robert Wagner	Northeast Natural Energy, LLC	12.5% Royalty or More	1808; 1623	665; 168
	WV-061-005183-001	Jason R. Cryder	Northeast Natural Energy, LLC	12.5% Royalty or More	1808	620
AN	WV-061-005183-007	Laura C. Young, a/k/a Laura K. Young, f/k/a Laura K. Cryder	Northeast Natural Energy, LLC	12.5% Royalty or More	1808; 1621	183; 760
	WV-061-005183-006	Cynthia Cryder, a/k/a Cynthia E. Cryder	Northeast Natural Energy, LLC	12.5% Royalty or More	1808; 1631	186; 439
AO	WV-061-005183-002	Margaret H. Cryder	Northeast Natural Energy, LLC	12.5% Royalty or More	1808; 1631	185; 437
	WV-061-005183-003	Mary Helen Hansen	Northeast Natural Energy, LLC	12.5% Royalty or More	1808; 1621	184; 762
AP	WV-061-005143-003	Ina Carolyn Webb	Northeast Natural Energy, LLC	12.5% Royalty or More	1808; 1623	664; 166
	WV-061-005143-004	Janice Kay Curry	Northeast Natural Energy, LLC	12.5% Royalty or More	1762	696
AQ	WV-061-005143-002	Betty S. Curry, f/k/a Betty C. McDougal	Northeast Natural Energy, LLC	12.5% Royalty or More	1763	574
	WV-061-006120-008	John Reed Berry	Northeast Natural Energy, LLC	12.5% Royalty or More	1800	392

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
	WV-061-005143-014	Suzanne Gripper	Northeast Natural Energy, LLC	12.5% Royalty or More	1789	393
	WV-061-006028-015	Amie Y. Bearden	Northeast Natural Energy, LLC	12.5% Royalty or More	1799	448
	WV-061-005143-015	Judith Lucas Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	612
	WV-061-005143-005	Shirley D. Berry	Northeast Natural Energy, LLC	12.5% Royalty or More	1788	504
	WV-061-005964-010	Scott Steven Young	Northeast Natural Energy, LLC	12.5% Royalty or More	1800	422
	WV-061-006028-006	Wanda Anderson	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	572
	WV-061-006028-018	Jennifer Albert, f/k/a Jennifer Butz	Northeast Natural Energy, LLC	12.5% Royalty or More	1800	436
	WV-061-006120-001	James L. Anderson	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	498
	WV-061-006028-011	Gary Ralph Straight	Northeast Natural Energy, LLC	12.5% Royalty or More	1796	311
	WV-061-005143-008	Glen William Straight	Northeast Natural Energy, LLC	12.5% Royalty or More	1788	548
	WV-061-006028-004	Jean A. Sproull, a/k/a Jean Ann Sproull	Northeast Natural Energy, LLC	12.5% Royalty or More	1789	342
	WV-061-005964-007	Cheryl Lene Gould, a/k/a Cheryl Lane Dunbar, a/k/a Sherry Dunbar Gould	Northeast Natural Energy, LLC	12.5% Royalty or More	1798	424
	WV-061-005964-006	Betty Rose Henry	Northeast Natural Energy, LLC	12.5% Royalty or More	1799	442
	WV-061-005143-011	Donald Morley	Northeast Natural Energy, LLC	12.5% Royalty or More	1789	313
	WV-061-005964-001	Deborah K. Weathersby	Northeast Natural Energy, LLC	12.5% Royalty or More	1781	579
	WV-061-005143-010	Loretta Hardesty	Northeast Natural Energy, LLC	12.5% Royalty or More	1789	311
	WV-061-005143-013	Margie Kay Rogan	Northeast Natural Energy, LLC	12.5% Royalty or More	1789	317
	WV-061-006028-003	John Paul Berry a/k/a John Berry	Northeast Natural Energy, LLC	12.5% Royalty or More	1789	340
	WV-061-006028-010	Robert Berry	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	580
	WV-061-006028-002	John F. Pafford III	Northeast Natural Energy, LLC	12.5% Royalty or More	1789	338
	WV-061-006028-008	Deena Albers, a/k/a Deena Berry Albers	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	576
	WV-061-006028-012	Betty Sender	Northeast Natural Energy, LLC	12.5% Royalty or More	1796	313
	WV-061-006028-009	Ronald A. Bartlett	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	578
	WV-061-006028-007	Nora Bartlett	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	574
	WV-061-005143-017	Carol Gregg, a/k/a Carol Bobo Gregg	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	616
	WV-061-005143-018	Mary Jo Bobo Gregg	Northeast Natural Energy, LLC	12.5% Royalty or More	1794	616
	WV-061-006120-002	Lynne Labadie, f/k/a Lynne Farrington	Northeast Natural Energy, LLC	12.5% Royalty or More	1693	689
	WV-061-006120-003	Ellen K. McGuire, f/k/a Ellen McGuire Christler, f/k/a Ellen Farrington	Northeast Natural Energy, LLC	12.5% Royalty or More	1796	323
	WV-061-006028-005	Nancy B. Robison, a/k/a Nancy Bih Robison	Northeast Natural Energy, LLC	12.5% Royalty or More	1796	298
	WV-061-006028-001	Melinda M. Stewart, a/k/a Malinda Ann Stewart	Northeast Natural Energy, LLC	12.5% Royalty or More	1789	492
	WV-061-006120-014	Larry A. Londot	Northeast Natural Energy, LLC	12.5% Royalty or More	1788	576
	WV-061-006120-013	Linda Cantrell	Northeast Natural Energy, LLC	12.5% Royalty or More	1803	574
	WV-061-005183-004	Frank H. and Collen K. Dunlap	Northeast Natural Energy, LLC	12.5% Royalty or More	1803	536
	WV-061-006028-025	Robert Wagner	Northeast Natural Energy, LLC	12.5% Royalty or More	1808; 1623	665-168
	WV-061-005183-001	Jason B. Cryder	Northeast Natural Energy, LLC	12.5% Royalty or More	1808	620
	WV-061-005183-007	Laura C. Young, a/k/a Laura K. Young, f/k/a Laura K. Cryder	Northeast Natural Energy, LLC	12.5% Royalty or More	1808; 1621	183-760
	WV-061-005183-006	Cynthia Cryder, a/k/a Cynthia E. Cryder	Northeast Natural Energy, LLC	12.5% Royalty or More	1808; 1631	186-439
	WV-061-005183-002	Margaret H. Cryder	Northeast Natural Energy, LLC	12.5% Royalty or More	1808; 1631	185-437
	WV-061-005183-003	Mary Helen Hansen	Northeast Natural Energy, LLC	12.5% Royalty or More	1808; 1621	184-762
	WV-061-003525-012	Alpheus Henderson and Drusilla Henderson	Northeast Natural Energy, LLC	12.5% Royalty or More	1808; 1623	664-166
T		The Chartiers Oil Company	The Chartiers Oil Company	12.5% Royalty or More	39	486
		Monongahela Natural Gas Company	Monongahela Natural Gas Company	12.5% Royalty or More	110	394
		Pittsburgh and West Virginia Gas Company	Pittsburgh and West Virginia Gas Company	12.5% Royalty or More	138	131
		Equitable Gas Company	Equitable Gas Company	12.5% Royalty or More	473	477
		Equitable Gas Company	Equitable Gas Company	12.5% Royalty or More	26	633
		Equitrans, Inc.	Equitrans, Inc.	12.5% Royalty or More	121	315
		Equitrans, L.P.	Equitrans, L.P.	12.5% Royalty or More	60	604
	WV-061-003525-012	Noumenon Corporation	Noumenon Corporation	12.5% Royalty or More	128	85