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west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Tuesday, January 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 SULLIVAN 7H  
47-061-01919-00-00

**Change Lateral Direction/ Add Leases**

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.

  
James A. Martin  
Chief

Operator's Well Number: SULLIVAN 7H  
Farm Name: ALAN SULLIVAN  
U.S. WELL NUMBER: 47-061-01919-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 01/10/2023

Promoting a healthy environment.

01/20/2023

CK# 85739  
# 5000  
Exp Mod

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 Grant Town  
Operator ID County District Quadrangle

2) Operator's Well Number: 7H Well Pad Name: Sullivan

3) Farm Name/Surface Owner: Alan Sullivan Public Road Access: Route 27/1

4) Elevation, current ground: 1,520' Elevation, proposed post-construction: 1,476'

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, 8,247', 87', 5200 psi

8) Proposed Total Vertical Depth: 8,247

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 22,031'

11) Proposed Horizontal Leg Length: 12,450'

12) Approximate Fresh Water Strata Depths: 50', 1,262'

13) Method to Determine Fresh Water Depths: Drillers logs from offset wells

14) Approximate Saltwater Depths: 2,050', 2,580'

15) Approximate Coal Seam Depths: 500', 1,260'

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: N/A  
Depth: \_\_\_\_\_  
Seam: \_\_\_\_\_  
Owner: \_\_\_\_\_

Gayne Knitowski  
Digitally signed by Gayne Knitowski  
Date: 2023.01.16 16:28:34 -0500

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18)

**CASING AND TUBING PROGRAM**

<b>TYPE</b>	<b>Size (in)</b>	<b>New or Used</b>	<b>Grade</b>	<b>Weight per ft. (lb/ft)</b>	<b>FOOTAGE: For Drilling (ft)</b>	<b>INTERVALS: Left in Well (ft)</b>	<b>CEMENT: Fill-up (Cu. Ft.)/CTS</b>
Conductor	24"	New	NA	NA	100	100 ✓	GTS
Fresh Water	13-3/8"	New	J-55	54.5	1,505	1,475* ✓	CTS ✓
Coal							
Intermediate	9-5/8"	New	J-55	36	2,680	2,650 ✓	CTS ✓
Production	5-1/2"	New	P-110	20	22,031'	22,001' ✓	5,344
Tubing	2-7/8"	New	P-110	6.5	NA		
Liners							

\*depth to cover Red Rock formation

Gayne Knitowski  
Digitally signed by Gayne Knitowski  
 Date: 2023.01.06 16:28:50 -05'00'

<b>TYPE</b>	<b>Size (in)</b>	<b>Wellbore Diameter (in)</b>	<b>Wall Thickness (in)</b>	<b>Burst Pressure (psi)</b>	<b>Anticipated Max. Internal Pressure (psi)</b>	<b>Cement Type</b>	<b>Cement Yield (cu. ft./k)</b>
Conductor	24"	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	2800	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	0.217	13,870	NA	NA	NA
Liners							

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**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): 28.65

22) Area to be disturbed for well pad only, less access road (acres): 15.32

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.

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Well Location Plat  
Page 4 Cross Section

Northeast Natural Energy, LLC  
Applicant / Well Operator Name

DEP ID#

Sullivan Pad  
Monongalia Co., WV  
WELL DEP Datum @ 1476.0usft (Original Well Elev)

Well #  
Sullivan 7H



**WELL PLAN**  
Operator Name: **Northeast Natural Energy**

DEP  
Use  
Only

Permit #

Well/Farm Name: **Sullivan Pad**

NOTES:

Name	TVD	Latitude	Longitude	TMD
Sullivan-7H_SHL	0.0	39.6148870	-80.2229703	0
Sullivan-7H_KOP	3833.0	39.6148870	-80.2229703	3833
Sullivan-7H_LP rev1	8247.0	39.6188844	-80.2150272	9580.9
Sullivan-7H_PBHL rev1	8247.0	39.6471927	-80.2398058	22031.6

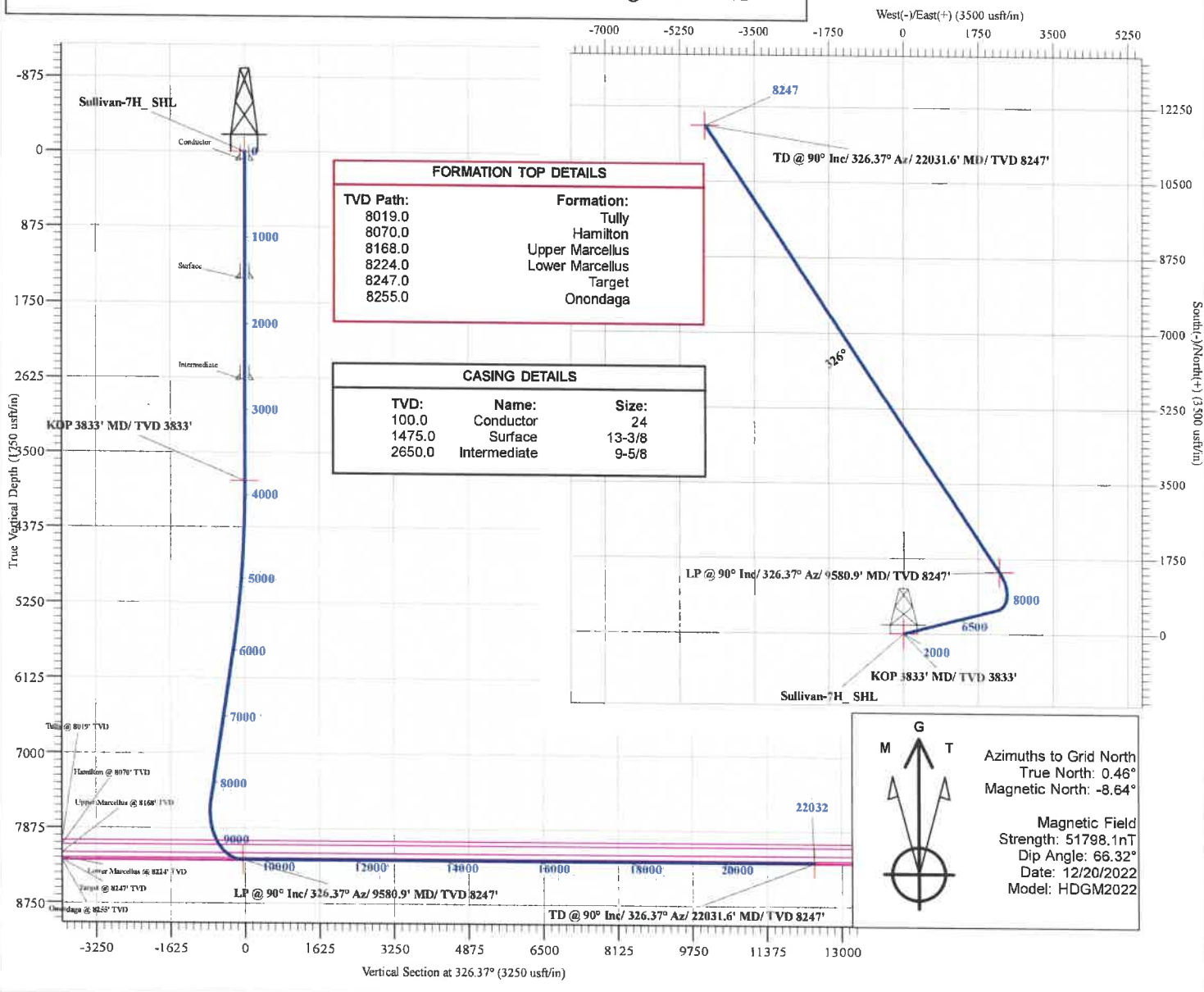
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SECTION DETAILS

MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	V Sect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
3833.0	0.00	0.00	3833.0	0.0	0.0	0.00	0.00	0.0	KOP 3833' MD/ TVD 3833'
5833.1	40.00	75.72	5674.5	165.3	649.6	2.00	75.72	-222.1	Hold 40° Inc
8302.2	40.00	75.72	7565.9	556.8	2187.7	0.00	0.00	-748.0	Curve KOP 8°/100
9580.9	90.00	326.37	8247.0	1438.1	2249.2	8.00	-105.05	-48.3	LP @ 90° Inc/ 326.37° Az
22031.6	90.00	326.37	8247.0	11805.3	-4645.7	0.00	0.00	12402.4	TD @ 90° Inc/ 326.37° Az



01/20/2023



Sullivan 7H AREA OF REVIEW

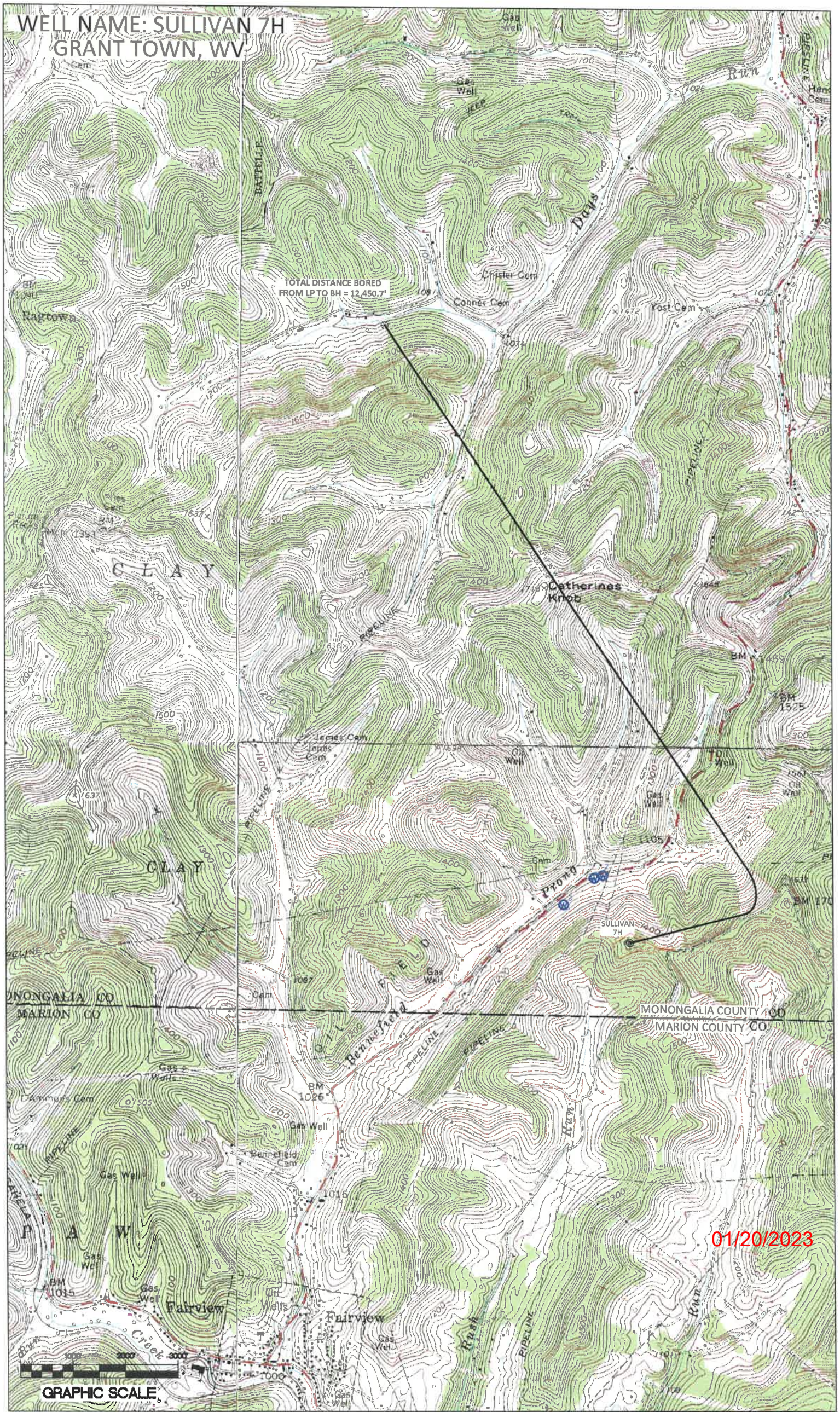
API Number	Well Name	Well Number	Operator	Latitude (NAD 83)	Longitude (NAD 83)	TMP	TVD	Notes
✓ 061-00732	Orville W. Bell	NA	Eastern Associated / Peabody Coal Company	39.621601	-80.215444	4-26-44	NA	Plugged 11/14/83
✓ 061-01143	NA	NA	Diversified Production LLC	39.622535	-80.217393	4-19-52	NA	NA
✓ 061-00539	DL (Sanford) Toothman	2	South Penn Oil	39.627015	-80.220882	4-19-51	Fifth	NA
✓ 061-00334	Daniel Toothman	14	Eastern Associated / Peabody Coal Company	39.631366	-80.224071	4-19-45	NA	NA
✓ 061-01607	DL Toothman	12	Eastern Associated / Peabody Coal Company	39.632545	-80.228812	4-19-45	NA	Plugged 3/3/10
✓ 061-01608	Rocky Barr	NA	Eastern Associated / Peabody Coal Company	39.633489	-80.226248	4-19-45	NA	Plugged 1/25/10
✓ 061-01589	Thomas Zyra	NA	Eastern Associated / Peabody Coal Company	39.638128	-80.230583	4-19-42.1	NA	Plugged 6/1/09
✓ 061-01505	Roxie Tennant	NA	Eastern Associated / Peabody Coal Company	39.640646	-80.234951	4-19-32.2	NA	Plugged 5/9/06
✓ 061-01513	Bryan Tennant	NA	Eastern Associated / Peabody Coal Company	39.641333	-80.233713	4-19-33.1	NA	Plugged 7/17/06
✓ 061-00886	Joseph Schumiloff	NA	Eastern Associated / Peabody Coal Company	39.646881	-80.241331	4-18-12	NA	Plugged 10/12/06
✓ 061-00012	Kemble Tate	NA	Eastern Associated / Peabody Coal Company	39.644126	-80.250361	4-18-12	Fifth	Plugged 11/2/05
✓ 061-00032	Mark Shriver	1	NA	39.646736	-80.24133	4-18-12	Bayard	NA

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WELL NAME: SULLIVAN 7H  
GRANT TOWN, WV

TOTAL DISTANCE BORED  
FROM LP TO BH = 12,450.7'

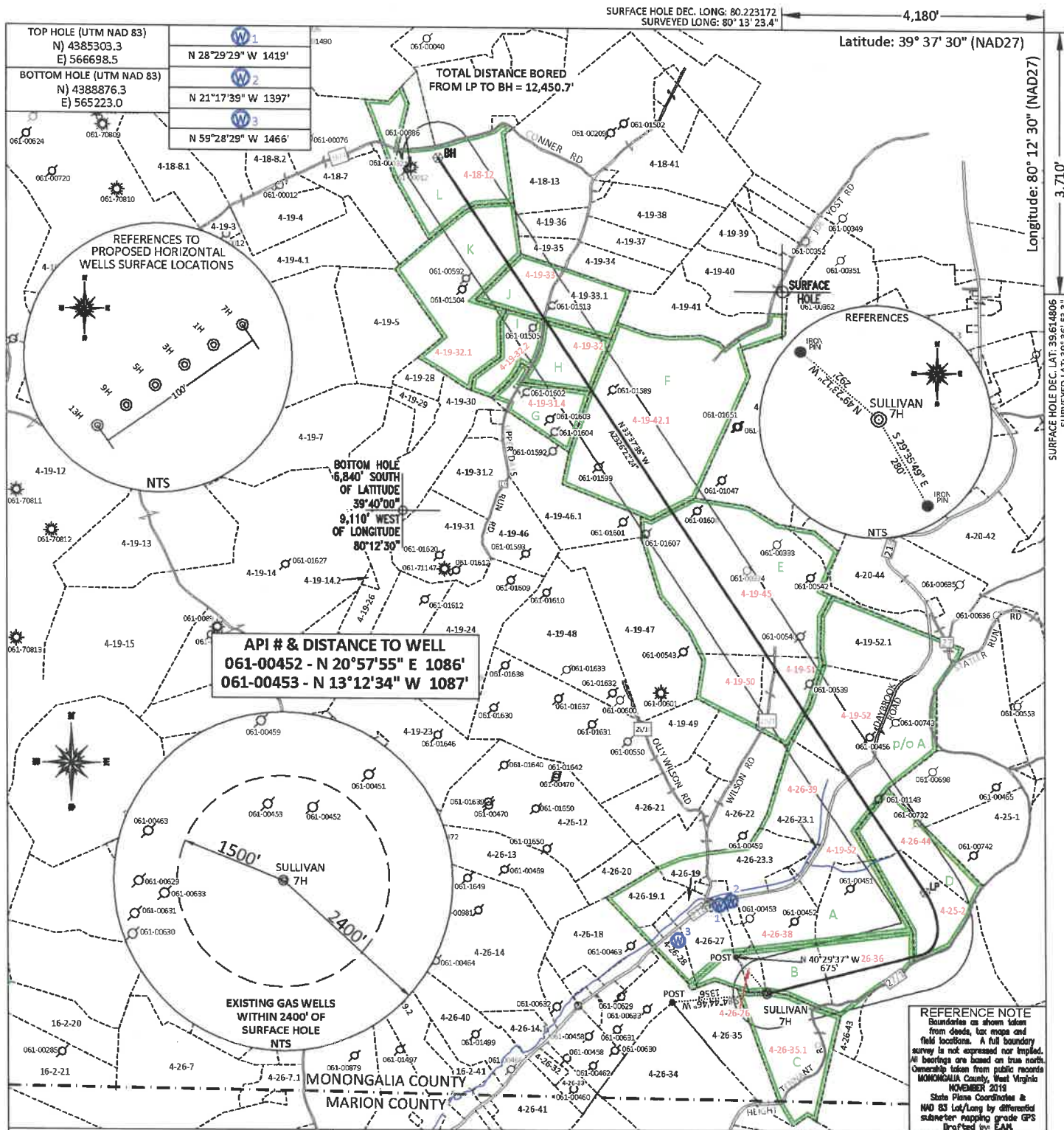


01/20/2023



GRAPHIC SCALE





FILE #: NNE20

DRAWING #: 3051

SCALE: PLAT: 1" = 2000'  
TRK: 1" = 2000'

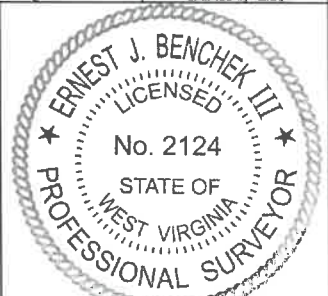
MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: *[Signature]*

L.L.S. #2124 : Ernest J. Benchek III



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP

OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25304

Well Type:  Oil  Waste Dipsal  Production  Deep  
 Gas  Liquid Injection  Storage  Shallow

WATERSHED: UPPER MONONGAHELA RIVER

COUNTY/DISTRICT: MONONGALIA / CLAY

SURFACE OWNER: ALAN SULLIVAN

OIL & GAS ROYALTY OWNER: ALAN SULLIVAN

LEASE NUMBERS:

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

DATE: JANUARY 6, 2023

OPERATOR'S WELL #: SULLIVAN 7H

API WELL #: 47 61 01919

STATE COUNTY PERMIT  
CURRENT ELEVATION: 1,520'  
PROPOSED ELEVATION: 1,476.4'

QUADRANGLE: GRANT TOWN  
ACREAGE: 843.32 +/-  
ACREAGE: 25.870 +/-

ESTIMATED DEPTH: TVD: 8,247' TMD: 22,031.6'  
DESIGNATED AGENT: JOHN ADAMS  
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200  
CITY: CHARLESTON STATE: WV ZIP CODE: 25301

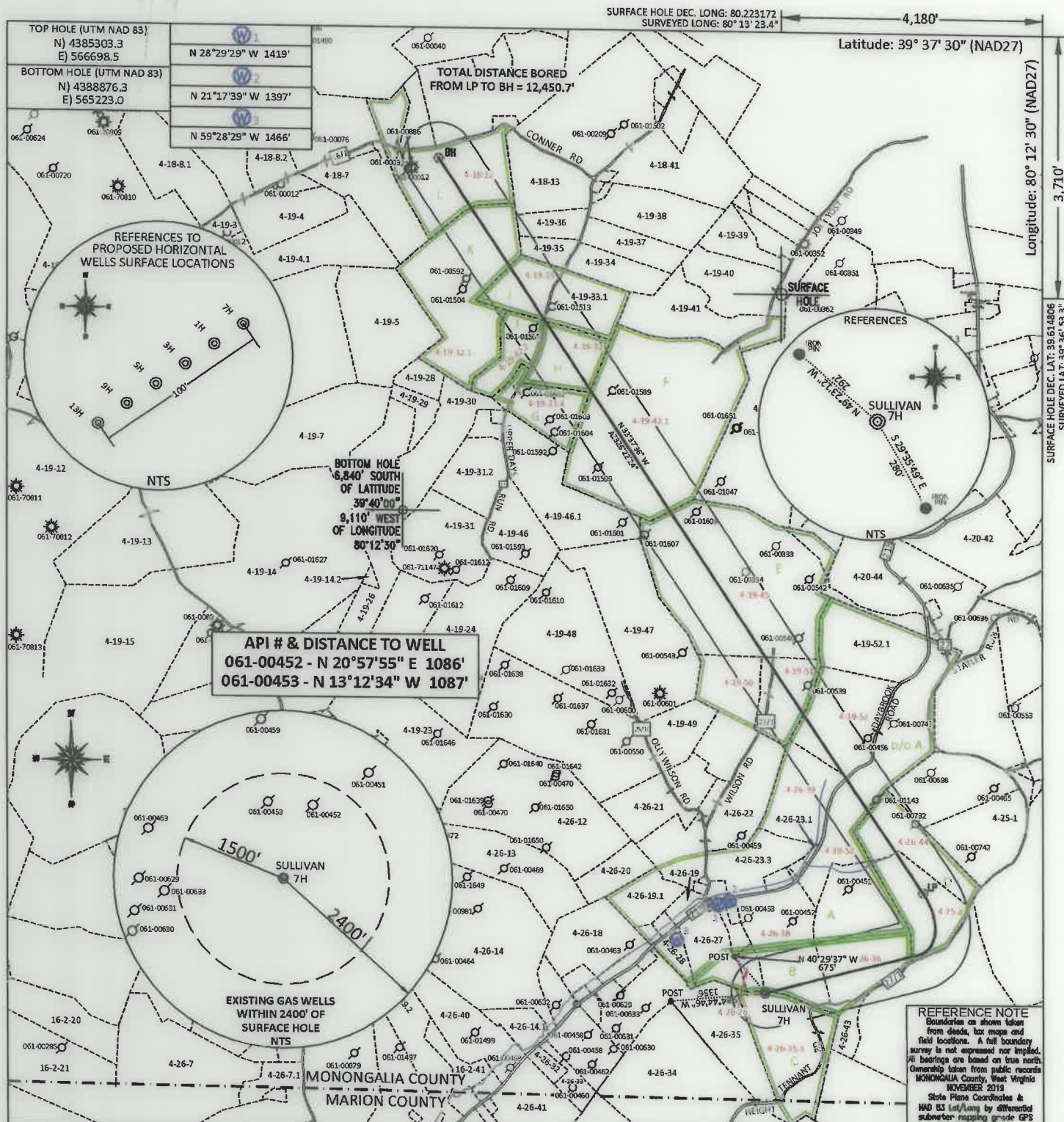
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4-18-12	LEE ANN SHUMILOFF
4-19-33	BRYAN D TENNANT
4-19-32	SHERI K CORDER
4-19-45	ROCKY & CATHY J BARR
4-19-51	AMANDA PAULETTE; LINDA JANE; TERESA DARLENE POLANSKY
4-26-44	RODNEY EDWARD & HEATHER ANNE ROBINSON
4-25-2	ORVILLE W BELL JR & RENEE D LOAR
4-26-36	LARRY NOLAN & LINDA MAE PAYTON
4-26-38	ADAM CLAY DARRAH
4-26-35.1	ALAN SULLIVAN
4-26-26	NNE MIDSTREAM LLC
4-19-32.1	JIMMY R & PAMELA K TENNANT; BILLY RAY & ROXANA CAHILL
4-19-32.2	JIMMY RANDALL TENNANT
4-19-31.4	PAMELA K TENNANT
4-19-42.1	THOMAS J & DIANN M ZYRA
4-19-50	ROCKY & CATHY J BARR
4-26-39	ADAM CLAY DARRAH
4-19-52	LARRY F & BRENDA KAY KUHN

LEASE INDEX			
A	WV-061-000160-001-ACT	H	WV-061-004588-002
B	WV-061-000160-001-ACT	I	WV-061-006016-001
C	WV-061-005448-002	J	WV-061-005475-001
D	WV-061-005961-002	K	WV-061-006016-001
E	WV-061-004442-001	L	WV-061-004519-000
F	WV-061-000171-002		
G	WV-061-003931-010		

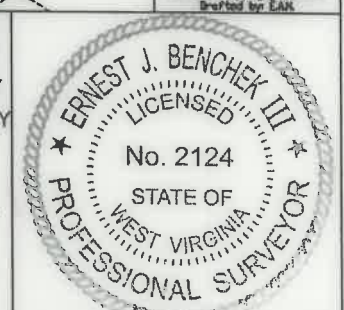
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FILE #: <u>NEE20</u>	DATE: <u>JANUARY 6, 2023</u>
DRAWING #: <u>3051</u>	OPERATOR'S WELL #: <u>SULLIVAN 7H</u>
SCALE: <u>N/A</u>	API WELL #: <u>47</u> <u>61</u> <u>01919</u> STATE COUNTY PERMIT



FILE #: NNE20  
 DRAWING #: 3051  
 SCALE: PLAT: 1" = 2000'  
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]  
 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: UPPER MONONGAHELA RIVER  
 COUNTY/DISTRICT: MONONGALIA / CLAY  
 SURFACE OWNER: ALAN SULLIVAN  
 OIL & GAS ROYALTY OWNER: ALAN SULLIVAN  
 LEASE NUMBERS: \_\_\_\_\_

DATE: JANUARY 6, 2023  
 OPERATOR'S WELL #: SULLIVAN 7H  
 API WELL #: 47 61 01919  
 STATE COUNTY PERMIT  
 CURRENT ELEVATION: 1,520'  
 PROPOSED ELEVATION: 1,476.4'  
 QUADRANGLE: GRANT TOWN  
 ACREAGE: 843.32 +/-  
 ACREAGE: 25.870 +/-

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  
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 DESIGNATED AGENT: JOHN ADAMS  
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200  
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

01/20/2023

**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

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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

WW-6A1

Operators Well No. Sullivan 7H

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
✓ A	WV-061-000160-001-ACT	EQT Production Company			1775	44
✓ B	WV-061-000160-001-ACT	EQT Production Company	Northeast Natural Energy, LLC	12.5% Royalty or More		
✓ C	WV-061-005448-002	Alan Sullivan	Northeast Natural Energy, LLC	12.5% Royalty or More	1775	44
✓ D	WV-061-005961-002	Billy C. Haught	Northeast Natural Energy, LLC	12.5% Royalty or More	1772	466
	WV-061-005961-001	Kenneth C. Haught	Northeast Natural Energy, LLC	12.5% Royalty or More	1780	602
✓ E	WV-061-004442-001	Julia Kay Wilson Hill	Northeast Natural Energy, LLC	12.5% Royalty or More	1780	600
	WV-061-004442-005	Mike'll Ann Wilson Reagan	Northeast Natural Energy, LLC	12.5% Royalty or More	1580	600
	WV-061-004442-001	Julia Kay Wilson Hill	Northeast Natural Energy, LLC	12.5% Royalty or More	1584	807
	WV-061-004442-004	Jo Ann Snyder	Northeast Natural Energy, LLC	12.5% Royalty or More	1580	600
	WV-061-004442-003	Marvin Lynn Wilson	Northeast Natural Energy, LLC	12.5% Royalty or More	1580	744
	WV-061-004442-002	Royal J. Burnett	Northeast Natural Energy, LLC	12.5% Royalty or More	1580	604
✓ F	WV-061-000171-002	Reta Meredith Erdos	Northeast Natural Energy, LLC	12.5% Royalty or More	1580	602
	WV-061-000171-005	Noah Charles Ammons	Northeast Natural Energy, LLC	12.5% Royalty or More	1526	158
	WV-061-004347-001	Randolph K. Ammons (Donnie Ray Ammons Heir)	Northeast Natural Energy, LLC	12.5% Royalty or More	1526	161
	WV-061-004328-001	Stone Hill Minerals Holdings, LLC (Eric Ammons Interest)	Northeast Natural Energy, LLC	12.5% Royalty or More	1575	542
	WV-061-004328-001	Stone Hill Minerals Holdings, LLC (Donny Ray Ammons, Jr. interest (Donnie Ray Ammons Heir)	Northeast Natural Energy, LLC	12.5% Royalty or More	1576	499
	WV-061-004328-001	Stone Hill Minerals Holdings, LLC (Cristi Kwei interest (Donnie Ray Ammons Heir)	Northeast Natural Energy, LLC	12.5% Royalty or More	1576	499
✓ G	WV-061-003931-010	Randy D. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1576	499
✓ H	WV-061-004588-002	Sheri K. Corder	Northeast Natural Energy, LLC	12.5% Royalty or More	1562	397
✓ I	WV-061-006016-001	Jimmy Randall Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1787	36
✓ J	WV-061-005475-001	Burns Family General Partnership	Northeast Natural Energy, LLC	12.5% Royalty or More	1787	72
	WV-061-004413-003	Ruth Burns	Northeast Natural Energy, LLC	12.5% Royalty or More	1647	171
	WV-061-004413-002	Nancy B. Lawler	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	575
✓ K	WV-061-006016-001	Jimmy Randall Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	573
	WV-061-005019-002	Roxana Cahill	Northeast Natural Energy, LLC	12.5% Royalty or More	1787	72
	WV-061-006017-001	Pamela Kay Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1788	512
	WV-061-006019-001	Billy Ray Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1787	74
✓ L	WV-061-004519-000	Joseph A. Shumiloff and Lee Ann Shumiloff	Northeast Natural Energy, LLC	12.5% Royalty or More	1787	78
			Northeast Natural Energy, LLC	12.5% Royalty or More	1593	494

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