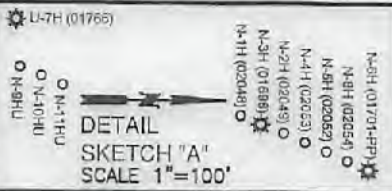
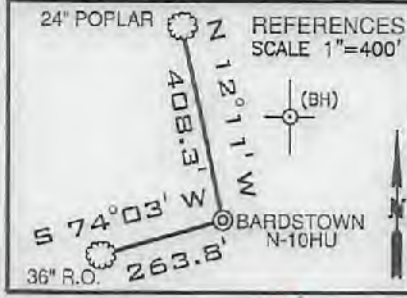


BOTTOM HOLE LATITUDE: 39°47'30"

TOP HOLE LATITUDE: 39°47'30"

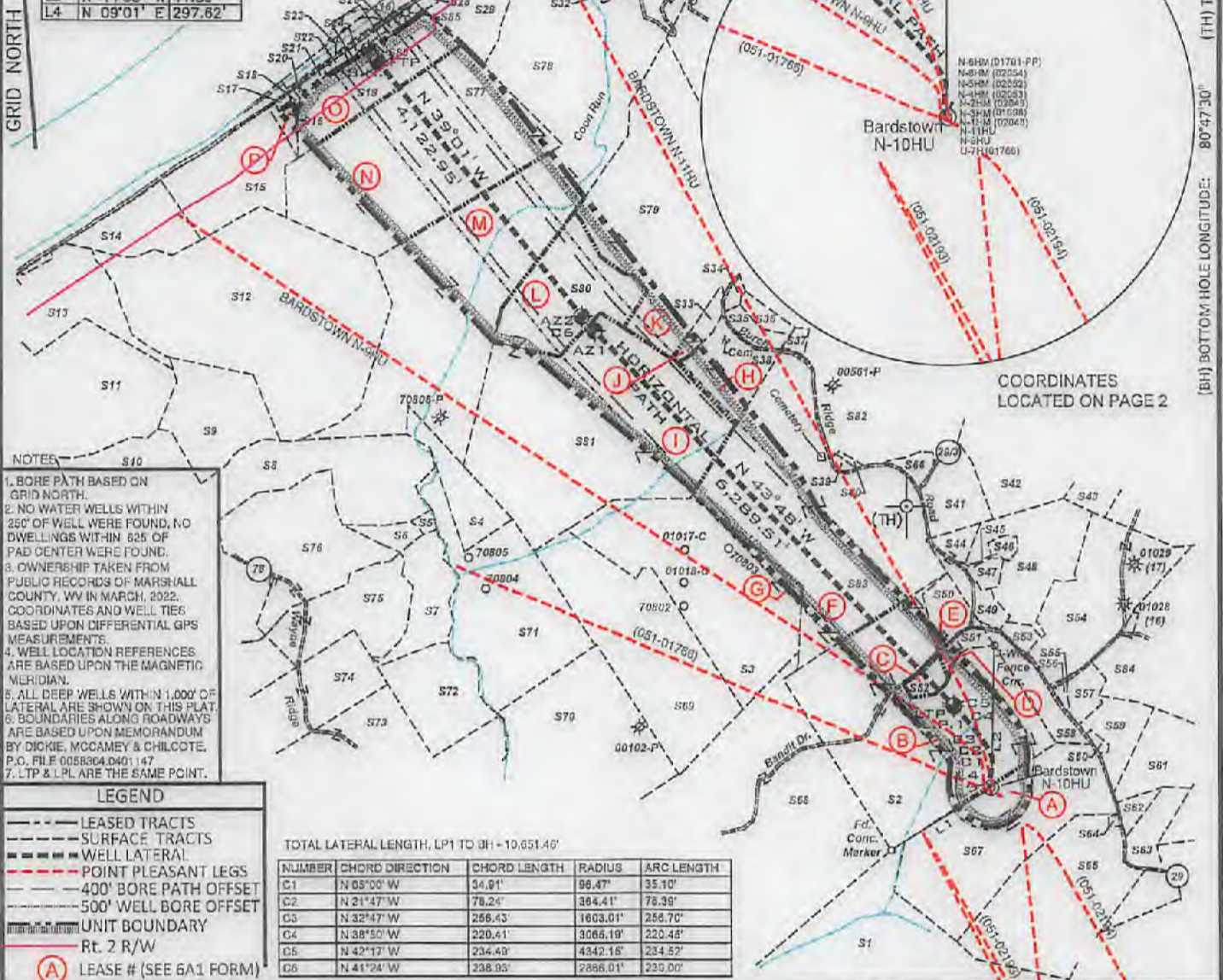
# BARDSTOWN LEASE WELL N-10HU 397.8794± ACRES

form: wv6



(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

LINE	BEARING	DISTANCE
L1	S 58°23' W	1,431.14'
L2	N 01°29' E	1,721.45'
L3	N 44°03' W	41.89'
L4	N 09°01' E	297.62'



**NOTES**

- BORE PATH BASED ON GRID NORTH.
- NO WATER WELLS WITHIN 250' OF WELL WERE FOUND, NO DWELLINGS WITHIN 525' OF PAD CENTER WERE FOUND.
- OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN MARCH, 2022. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
- WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.
- ALL DEEP WELLS WITHIN 1,000' OF LATERAL ARE SHOWN ON THIS PLAT.
- BOUNDARIES ALONG ROADWAYS ARE BASED UPON MEMORANDUM BY DICKIE, MCCAMEY & CHILCOTE, P.C., FILE 0058364.0401.147
- LTP & LPL ARE THE SAME POINT.

**LEGEND**

- LEASED TRACTS
- SURFACE TRACTS
- WELL LATERAL
- POINT PLEASANT LEGS
- 400' BORE PATH OFFSET
- 500' WELL BORE OFFSET
- UNIT BOUNDARY
- Rt. 2 R/W
- (A) LEASE # (SEE 6A1 FORM)

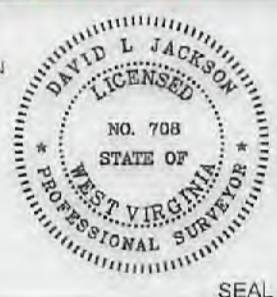
TOTAL LATERAL LENGTH, LP1 TO BH - 10,651.45'

NUMBER	CHORD DIRECTION	CHORD LENGTH	RADIUS	ARC LENGTH
C1	N 05°00' W	34.91'	96.47'	35.10'
C2	N 21°47' W	78.24'	364.41'	78.39'
C3	N 32°47' W	266.43'	1603.01'	266.70'
C4	N 38°50' W	220.41'	3066.19'	220.48'
C5	N 42°17' W	234.40'	4342.16'	234.52'
C6	N 41°24' W	238.93'	2866.01'	239.00'

FILE NUMBER \_\_\_\_\_  
DRAWING NUMBER BARDSTOWN\_N-10HU\_REV 3  
SCALE 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 RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

*David L Jackson*



JACKSON SURVEYING INC.  
P.O. Box 146D  
Clarksburg, WV 26302  
304-623-5881

DATE: APRIL 08, 2022

OPERATORS WELL NO. BARDSTOWN N-10HU  
API WELL NO. 47-051-02446 **Deep**  
STATE COUNTY PERMIT

LOCATION ELEVATION 1326.2' WATERSHED (HUC 10) FRENCH CREEK - OHIO RIVER  
DISTRICT FRANKLIN COUNTY MARSHALL  
QUADRANGLE POWHATAN POINT 7.5' LEASE NUMBER SEE WW-6A1 Form

SURFACE OWNER RUSSELL & MARY BLAKE ACREAGE 64.148  
OIL & GAS ROYALTY OWNER RUSSELL & MARY BLAKE LEASE ACREAGE 64.148  
PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION   
PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE (SPECIFY) \_\_\_\_\_  
PLUG & ABANDON  CLEAN OUT & REPLUG

TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD: 11,373' TMD: 22,288'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DARREN BROWN, CT CORP  
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5098 WASHINGTON STREET WEST, SUITE 407  
FORT WORTH, TX 76107 CHARLESTON, WV 25313-1561

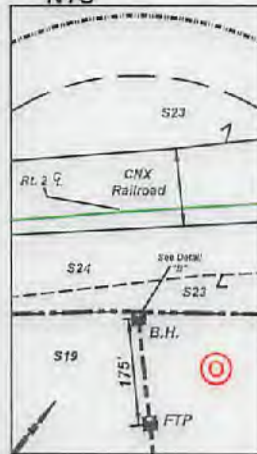
05/13/2022

COM  
TY NAME  
PERMIT

**BARDSTOWN LEASE  
WELL N-10HU  
397.8794± ACRES**

<b>SURFACE HOLE</b> UTM. NAD83, ZONE 17 IN METERS N) 4,401,568.77 E) 516,697.65
<b>LANDING POINT 1</b> UTM. NAD83, ZONE 17 IN METERS N) 4,401,868.78 E) 516,555.72
<b>AZIMUTH 1</b> UTM. NAD83, ZONE 17 IN METERS N) 4,403,229.73 E) 515,206.51
<b>AZIMUTH 2</b> UTM. NAD83, ZONE 17 IN METERS N) 4,403,283.52 E) 515,157.45
<b>BOTTOM HOLE</b> UTM. NAD83, ZONE 17 IN METERS N) 4,404,246.26 E) 514,350.42

Detail "A"  
NTS



Detail "B"  
NTS

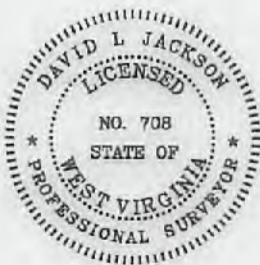


NOTES:

- 05-13-41A MAPPED AS PART OF 05-13-41
- 05-13-41B MAPPED AS PART OF 05-13-41. INCORRECTLY ASSESSED AS 05-25-22 4.15 ACRES
- 05-13-41C MAPPED AS PART OF 05-13-41. NOT ASSESSED.

Lease ID	TMP	Tag	Grantor, Lessor, Etc.	Deed Book/Page
10*14636	5-19-19	A	RUSSELL & MARY BLAKE	775 568
10*14141	5-19-20	B	DAVID & DEBORAH TAKACH	720 233
10*14141	5-19-20.3	C	DAVID & DEBORAH TAKACH	720 233
10*14141	5-19-20.1	D	DAVID & DEBORAH TAKACH	720 233
10*14141	5-19-20.2	E	DAVID & DEBORAH TAKACH	720 233
10*14925	5-19-5	F	MOUNTAIN TOP PRODUCTIONS LLC	840 444
10*14613	5-19-4	G	CHESTNUT HOLDINGS INC	827 556
10*18121	5-14-8	H	LAWRENCE EUGENE AND NICOLE M ANDERSON	927 68
10*14568	5-14-3	J	LEROY ANDERSON AND DONNA KAY ANDERSON	772 69
10*14945	5-14-7	I	LEROY ANDERSON AND DONNA KAY ANDERSON	735 433
10*14568	5-14-5	K	LEROY ANDERSON AND DONNA KAY ANDERSON, ET AL	772 69
10*14568	5-14-4	L	LEROY ANDERSON AND DONNA KAY ANDERSON	772 69
041111	5-12-23	M	EDWARD DOUGLAS GUIRE ET AL	663 91
10*16609	5-13-32	N	C PATRICIA WOBBIG, ET AL	916 118
041112	5-13-31	O	COLUMBIAN CHEMICALS COMPANY, ET AL	691 363
10*14636	5-13-30	P	WANDA JUNE RIDING, ET AL	794 503

Tags	Number	Tax Map - Parcel	Surface Owner	Acres
	S1	05-22-04	CNX RCPC, LLC	136.32
B	S2	05-19-20	WILBERT H BUNGARD ET UX	114.989
G	S3	05-19-04	JUSTIN ERINE	82.75
	S4	05-24-02	JOHN B WILLIAMS, ET AL	20.17
	S5	05-13-41C	HEIRS OF BENTON DARRAH, LILLIE MAE DUGAN ALMA BITZER, ALBERTA PALMER & AUDREY HOWARD	1.0
	S6	05-13-41B	LARRY & JUDY DARRAH	2.50
	S7	05-13-41A	RODNEY & RHONDA JACKSON	17.05
	S8	05-13-42	THOMAS & VICTORIA BOWMAN	45.0
	S9	05-13-34	DAVID J. MAST	40.0
	S10	05-13-35	DAVID J. MAST	24.90
	S11	05-13-23	DAVID J. MAST	69.59
	S12	05-13-33	NATHAN D. YODER	140.90
	S13	05-13-25	AARON PAUL HOLDREN, ET UX	30.0
	S14	05-13-27	AARON PAUL HOLDREN, ET UX	25.0
	S15	05-13-28	AARON PAUL HOLDREN, ET UX	17.0
P	S16	05-13-30	CINDY D ALUFF	3.0
	S17	05-13-28.1	CINDY D ALUFF	1.80
	S18	05-13-29	WEST VIRGINIA DEPARTMENT OF HIGHWAYS	1.0
D	S19	05-13-31	CNX LAND RESOURCES, INC.	31.723
	S20	05-13-31.1	WEST VIRGINIA DEPARTMENT OF HIGHWAYS	0.277
	S21	05-13-31.2	CNX LAND RESOURCES, INC.	0.938
	S22	05-12-27	CNX RCPC, LLC	0.67
	S23	05-12-26	CSX	4.00
	S24	05-12-28	WEST VIRGINIA DEPARTMENT OF HIGHWAYS	1.1
	S26	05-12-24.2	WEST VIRGINIA DEPARTMENT OF HIGHWAYS	0.539
	S27	05-12-25	CSX	12.8
	S28	05-12-24	WEST VIRGINIA DEPARTMENT OF HIGHWAYS	0.964
	S29	05-12-24.3	CNX RCPC, LLC	18.523
	S30	05-12-24.1	WEST VIRGINIA DEPARTMENT OF HIGHWAYS	0.994
	S31	05-12-23.2	MARSHALL COUNTY COAL RESOURCES, INC.	12.50
	S32	05-12-22	CNX RCPC, LLC	0.944
J	S33	05-14-07	DONNA K. & LEROY ANDERSON	4.60
	S34	05-14-16	GEORGE A KNUTH	1.6386
	S35	05-14-9.3	VERNEE A RINE, ET UX	4.128
	S36	05-14-9.4	VERNEE A RINE, ET UX	3.404
	S37	05-14-10.3	VERNEE A & JODY K RINE	1.54
H	S38	05-14-08	LAWRENCE EUGENE ANDERSON	18.29
	S39	05-14-10.1	IDA BELLE RUTAN (LIFE), RALPH R HOYT	0.50
	S40	05-14-10.2	IDA BELLE RUTAN (LIFE), RALPH R HOYT	0.495
	S41	05-14-11	DALE R GALLAHER, ET AL	12
	S42	05-14-12	DALE R GALLAHER & HARRY E GALLAHER	135.100
	S43	05-14-14	ROBERT L SHIELDS, ET AL	29.05
	S44	05-19-06	MARTHA M RUTAN	5.1089
	S45	05-19-7.3	OLAN V RUTAN, ET UX	0.341
	S46	05-19-7.4	OLAN V RUTAN, ET UX	1.787
	S47	05-19-7.2	OLAN RUTAN	2.783
	S48	05-19-07	OLAN V RUTAN, ET UX	32.4801
	S49	05-19-7.1	ROBERT L SHIELDS, ET UX	3.399
F	S50	05-19-20.2	CASANDRA L HARMON	7.448
D	S51	05-19-20.1	JOHN J EBERT, LIFE	3.848
C	S52	05-19-20.3	SIDNEY HARMON	3.715
	S53	05-19-7.5	ADAM T & JESSIE L ROBINSON	2.640
	S54	05-19-08	CNX RCPC, LLC	40
	S55	05-19-11	ERNIE L ANDERSON, ET UX	0.08
	S56	05-19-10	ERNIE L ANDERSON, ET UX	0.8125
	S57	05-19-12	ERNIE L ANDERSON, ET UX	5.33
	S58	05-19-09	PENNY ELAINE ASHCRAFT	10.44
	S59	05-19-29	ERNIE L & TAMMY L ANDERSON	10.961
	S60	05-19-15	CARLY HERRAN	0.72
	S61	05-19-30	ERNIE & TAMMY ANDERSON	19.037
	S62	05-19-30.1	ERIC R W & ASHLEY A HUGGINS	2.911
	S63	05-19-31	CHARLES F & DIANA L HAYNES	8.779
	S64	05-19-32	JASPER N BURCH ET AL - TRUSTEES	0.397
	S65	05-19-28	DAVID E YOHO & MARK E YOHO	56.899
	S66	05-14-10.4	ADAM R & JESSIE L ROBINSON	3.343
A	S67	05-19-19	RUSSELL & MARY BLAKE	64.248
	S68	05-19-21	SAMMY E WHITLATCH, ET AL	116.45
	S69	05-19-03	MILTON R & LINDA L NEAL	72.01
	S70	05-19-22	GEORGE A & KELLY A KNUTH	71.0
	S71	05-19-02	MILTON R & LINDA L NEAL	63.1
	S72	05-19-01	ROBERT RINE	30.80
	S73	05-20-26	ROBERT RINE	60.52
	S74	05-20-25	ROBERT RINE	43.82
	S75	05-13-40	ROBERT RINE	29.76
	S76	05-13-39	THOMAS BOWMAN & VICTORIA BOWMAN	46
N	S77	05-13-32	C PATRICIA WOBBIG ET AL	103.66
M	S78	05-12-23	CNX RCPC, LLC	236.10
R	S79	05-14-05	DONNA K. & LEROY ANDERSON	110.5
L	S80	05-14-04	LEROY & DONNA K ANDERSON	29.29
I	S81	05-14-03	LEROY & DONNA K ANDERSON	130
	S82	05-14-10	WANDA P RINE - LIFE	107.372
F	S83	05-19-05	MARGIRENE KEEFE	126.03
	S84	05-19-13	RONA LEE RICE & CHARLES F MCCARDLE	34.5



*David L Jackson*

P.S.  
708

47-051-02446 Deep

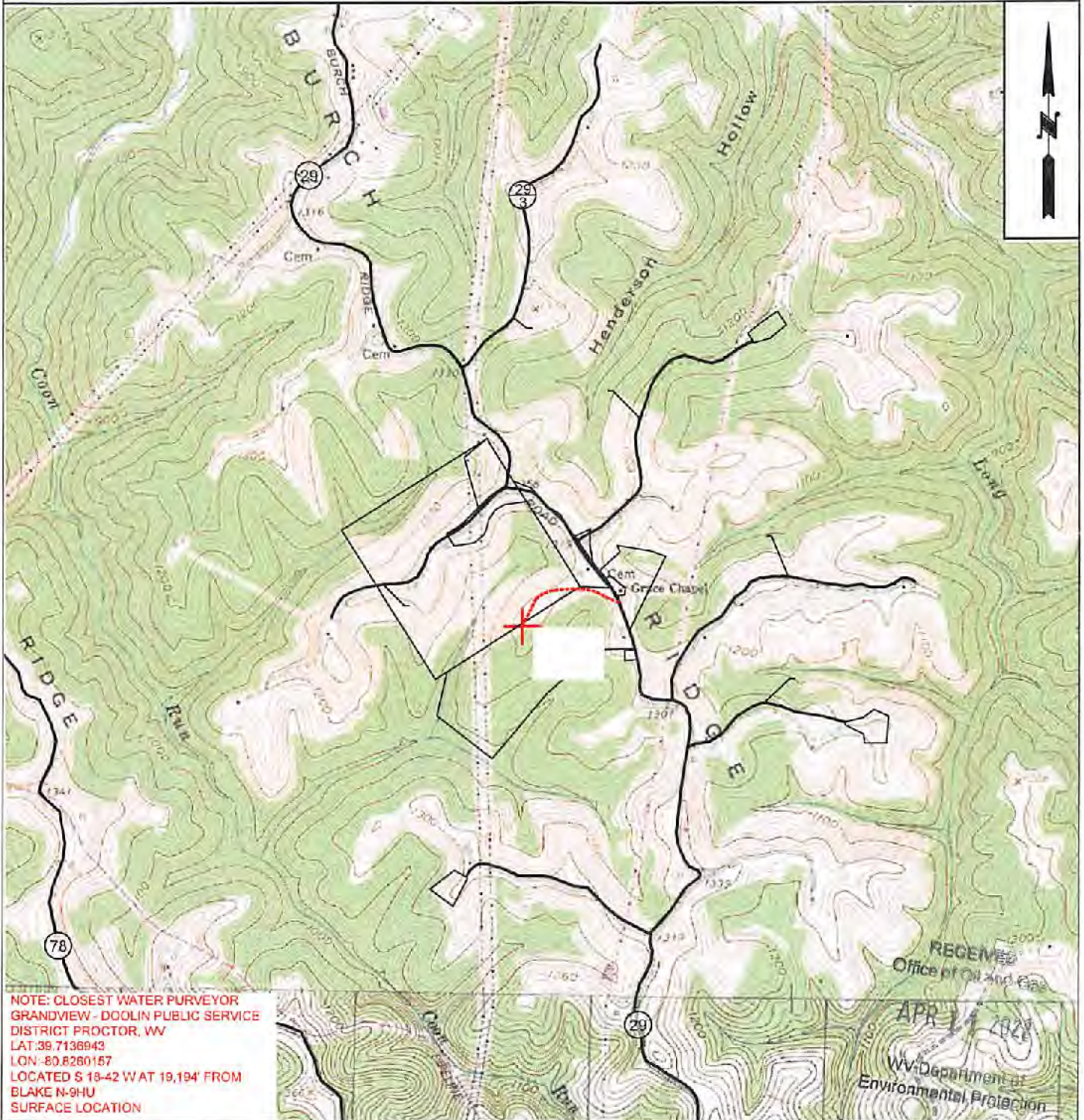


**TUG HILL  
OPERATING**


OPERATOR'S  
WELL #: Bardstown N-10HU  
DISTRICT: Franklin  
COUNTY: Marshall  
STATE: WV

WELL PLAT  
PAGE 2 OF 3  
DATE: 04/08/2022

05/13/2022



NOTE: CLOSEST WATER PURVEYOR  
 GRANDVIEW - DOOLIN PUBLIC SERVICE  
 DISTRICT PROCTOR, WV  
 LAT:39.7136943  
 LON:-80.8280157  
 LOCATED S 18-42 W AT 19,194' FROM  
 BLAKE N-9HU  
 SURFACE LOCATION

 <b>TUG HILL OPERATING</b>	<b>OPERATOR</b>	494510851	<b>TOPO SECTION</b>	<b>LEASE NAME</b>
	TUG HILL OPERATING, LLC 380 SOUTHPOINTE BLVD SUITE 200 CANONSBURG, PA 15317		POWHATAN POINT 7.5'	BLAKE
			<b>SCALE:</b>	<b>DATE:</b>
			1" = 2000'	DATE: 11-20-2018