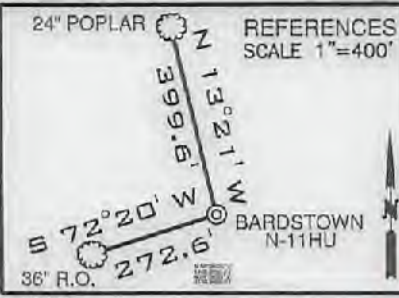
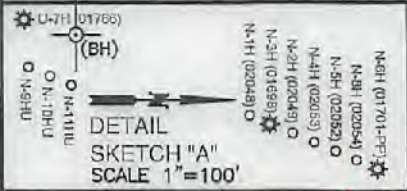


BARDSTOWN LEASE WELL N-11HU 391.2076± ACRES

TOTAL LATERAL LENGTH, LPI TO BH - 9,387.55'

NUMBER	CHORD DIRECTION	CHORD LENGTH	RADIUS	ARC LENGTH
C1	N 19°43' W	85.30'	613.85'	85.36'
C2	N 24°48' W	253.85'	3,617.57'	253.95'
C3	N 27°09' W	220.10'	7,908.71'	220.11'
C4	N 28°28' W	232.19'	11,243.40'	232.19'
C5	N 32°33' W	351.23'	2,864.40'	351.45'



NOTES

6. BOUNDARIES ALONG ROADWAYS ARE BASED UPON MEMORANDUM BY DICKIE, MCCAMEY & CHILDCOTE, P.C. FILE 0058304, 0101147. LTP & LPL ARE THE SAME POINT.

LINE BEARING	DISTANCE
L1 S 58°06' W	1440.87'
L2 N 01°20' E	1710.25'
L3 N 00°57' E	75.03'
L4 N 14°20' W	748.30'

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,401,572.17
E) 516,698.99

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,402,029.74
E) 516,529.74

- NOTES
- BORE PATH BASED ON GRID NORTH.
 - NO WATER WELLS WITHIN 250' OF WELL WERE FOUND, NO DWELLINGS WITHIN 825' 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.

LEGEND

- LEASE TRACTS
- SURFACE TRACTS
- WELL LATERAL
- POINT PLEASANT LEGS
- 400' BORE PATH OFFSET
- 500' WELL BORE OFFSET
- UNIT BOUNDARY
- (A) LEASE # (SEE 6A1 FORM)

AZIMUTH POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,403,451.83
E) 515,708.69

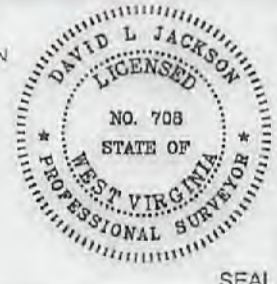
AZIMUTH POINT 2
UTM. NAD83, ZONE 17
IN METERS
N) 4,403,541.06
E) 515,649.60

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,404,428.15
E) 514,980.43

FILE NUMBER _____
DRAWING NUMBER BARDSTOWN_N-11HU_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 1460
Clarkeburg, WV 26302
304-823-5851

WVDEP
OFFICE OF OIL & GAS
801 57TH STREET, SE
CHARLESTON, WV 25304

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___

DATE: APRIL 08, 2022
OPERATORS WELL NO. BARDSTOWN N-11HU
API WELL NO. 47-051-02447 Deep
STATE COUNTY PERMIT

LOCATION ELEVATION 1326.2' WATERSHED (HUG 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 X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___
PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE (SPECIFY) _____
TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD: 11,372' TMD: 21,071'
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DARREN BROWN, CT CORP
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107 ADDRESS 5098 WASHINGTON STREET WEST, SUITE 407 CHARLESTON, WV 25313-1561

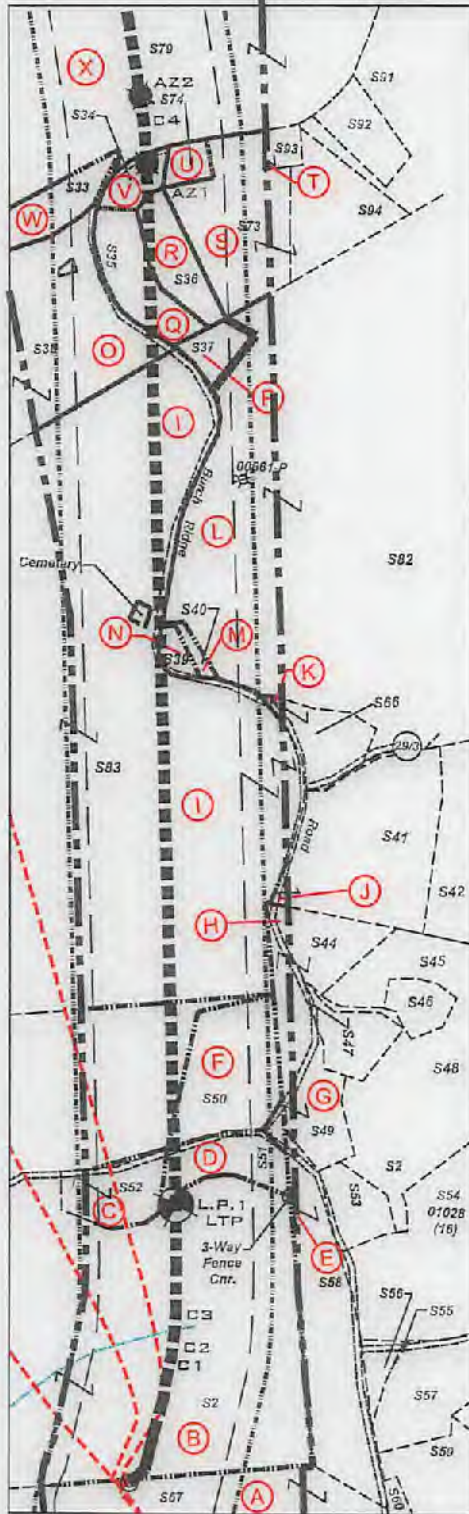
05/20/2022

COUNTY NAME PERMIT

**BARDSTOWN LEASE
WELL N-11HU
391.2076± ACRES**

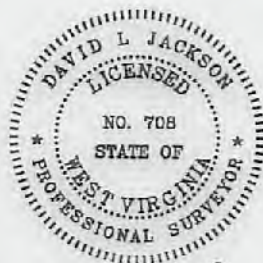
INSET "A"

Inset "A"
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 05-26-22 4.15 ACRES
- 05-13-41C MAPPED AS PART OF 05-13-41, NOT ASSESSED.



P.S.
708

David L Jackson

Tags	Number	Tax Map - Parcel	Surface Owner	Acres
	S1	05-22-04	CNX RCPC, LLC	136.32
R	S2	05-19-20	WILBERT H BUNGARD ET UX	114.989
	S3	05-19-04	JUSTIN RINE	82.75
	S4	05-14-02	JOHN S WILLIAMS, ET AL	20.17
	S5	05-13-41C	HEIRS OF DENTON DARRAH, LILLIE MAE DUGAN ALMA BITNER, ALBERTA PALMER & ALDREY 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 L MAST	40.0
	S10	05-13-35	DAVID L MAST	24.50
	S11	05-13-23	DAVID L MAST	69.59
	S12	05-13-33	NATHAN D. YODER	140.90
	S13	05-13-25	AARON PAUL HOLDREN, ET UX	30.0
	S14	05-13-22	AARON PAUL HOLDREN, ET UX	25.0
	S15	05-13-28	AARON PAUL HOLDREN, ET UX	17.0
	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
	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	0.57
	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	18.323
	S30	05-12-24.1	WEST VIRGINIA DEPARTMENT OF HIGHWAYS	0.994
	S31	05-12-23.2	MARSHALL COUNTY COAL RESOURCES, INC.	12.50
AA	S32	05-12-22	CNX RCPC, LLC	0.944
W	S33	05-14-07	DONNA K. & LEROY ANDERSON	4.60
V	S34	05-14-16	GEORGE A KNUTH	1.6386
QL	S35	05-14-9.3	VERNEE A RINE, ET UX	4.118
IL	S36	05-14-9.4	VERNEE A RINE, ET UX	3.404
P	S37	05-14-10.3	VERNEE A & JODY K RINE	1.54
O	S38	05-14-08	LAWRENCE EUGENE ANDERSON	18.29
N	S39	05-14-10.1	IDA BELLE RUTAN (LIFE), RALPH B HOYT	0.50
M	S40	05-14-10.2	IDA BELLE RUTAN (LIFE), RALPH B HOYT	0.495
J	S41	05-14-11	DALE R GALLAHER, ET AL	12
	S42	05-14-12	DALE R GALLAHER & HARRY R GALLAHER	135.100
	S43	05-14-14	ROBERT L SHIELDS, ET AL	29.05
H	S44	05-19-06	MARTHA M RUTAN	5.1099
	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
G	S49	05-19-7.1	ROBERT L SHIELDS, ET UX	3.399
I	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
E	S58	05-19-09	PENNY ELAINE MENENDEZ	10.44
	S59	05-19-29	ERNIE L & TAMMY LANDERSON	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
M	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 YOHIO & MARK E YOHIO	56.899
K	S66	05-14-10.4	ADAM R & JESSIE L ROBINSON	3.343
A	S67	05-19-19	RUSSELL & MARY BLAKE	64.148
	S68	05-19-21	SAMMY E WHITLATCH, ET AL	126.45
	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
S	S73	05-14-09	WALTER W. STREIGHT JR, ET UX	9.311
U	S74	05-14-17	JUSTIN E. & JODY RINE	1.1044
	S75	05-13-40	ROBERT RINE	23.76
	S76	05-13-39	THOMAS BOWMAN & VICTORIA BOWMAN	46
Z	S77	05-13-32	C PATRICIA WOBIG ET AL	105.66
Y	S78	05-12-23	CNX RCPC, LLC	236.10
X	S79	05-14-05	DONNA K. & LEROY ANDERSON	110.5
	S80	05-14-04	LEROY & DONNA K ANDERSON	29.29
	S81	05-14-03	LEROY & DONNA K ANDERSON	130
L	S82	05-14-10	WANDA P RINE - LIFE	107.372
I	S83	05-19-05	MARGIRENE KEEFE	126.03
	S84	05-19-13	RONA LEE RICE & CHARLES F MCCARDLE	92.6890
CC	S85	05-12-23.1	JAMES M. DAUGHERTY	0.28
DD	S86	05-12-23.3	WEST VIRGINIA DEPARTMENT OF HIGHWAYS	0.111
	S87	05-12-21.1	ROBERT W RIGGENBACH JR & WENDY RIGGENBACH	14.222
	S88	05-12-21	EDWARD L GIBSON (LIFE)	73.436
	S89	05-12-20	JONI LYNN LEON	0.457
	S90	05-12-19	JONI LYNN LEON	0.457
	S91	05-14-9.2	MARIA T FLORES	23.00
	S92	05-14-9.1	MARIA T FLORES	2.882
T	S93	05-14-19	BRIAN A & CHARLOTTE MULL	0.92
	S94	05-14-9.5	MARIA T FLORES	6.024
	S95	05-12-7	ROBERT & SHARON RIGGENBACH / REVOCABLE TRUST	104.231
BB	S96	05-12-6	CNX RCPC, LLC	70.81
EE	S97	05-12-6.1	WV DEPARTMENT OF HIGHWAYS	0.31
	S98	05-12-6.2	CONSOLIDATION COAL COMPANY / MURKIN TRUST	0.31
	S99	05-19-19.1	RUSSELL & MARY BLAKE	2.32
	S100		CSX RAILROAD	3.58

05/20/2022

OPERATOR'S
WELL #: Bardstown N-11HU
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV

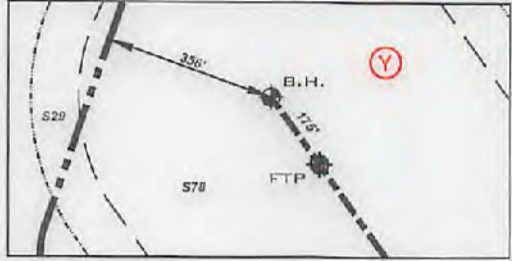
WELL PLAT
PAGE 2 OF 3
DATE: 04/08/2022
47-051-02447-Deep



**TUG HILL
OPERATING**

**BARDSTOWN LEASE
WELL N-11HU
391.2076± ACRES**

*Inset "B"
NTS*



Lease ID	TMP	Tag	Grantor, Lessor, Etc.	Deed Book/Page	
10*14634	5-19-19	A	RUSSELL & MARY BLAKE	773	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*14635	5-19-9	E	KATHY JO RUNYON, ET AL	775	21
10*14141	5-19-20.2	F	DAVID & DEBORAH TAKACH	720	233
10*16735	5-19-7.1	G	ROBERT L SHIELDS AND REBECCA A SHIELDS	942	27
10*16994	5-19-6	H	MARTHA M RUTAN	942	31
10*14925	5-19-5	I	MOUNTAIN TOP PRODUCTIONS LLC	840	444
10*14928	5-14-11	J	JOSEPH D. & NELLIE B. PARRIOTT	660	517
10*14420	5-14-10.4	K	ELLIS V & WANDA P RINE	725	141
10*14420	5-14-10	L	ELLIS V & WANDA P RINE	725	141
10*17968	5-14-10.2	M	IDA RUTAN	958	402
10*17968	5-14-10.1	N	IDA RUTAN	958	402
10*18121	5-14-8	O	LAWRENCE EUGENE AND NICOLE M ANDERSON	927	68
10*14553	5-14-10.3	P	VERNIE & JODY K RINE	859	597
10*14553	5-14-9.3	Q	VERNIE & JODY K RINE, ET AL	859	597
10*14553	5-14-9.4	R	VERNIE & JODY K RINE, ET AL	859	597
10*14619	5-14-9	S	SHIRLEY R MILLER, ET AL	715	414
10*14619	5-14-19	T	SHIRLEY R MILLER, ET AL	715	414
10*14619	5-14-17	U	SHIRLEY R MILLER, ET AL	715	414
10*14619	5-14-16	V	SHIRLEY R MILLER, ET AL	715	414
10*14945	5-14-7	W	LEROY AND DONNA KAY ANDERSON	735	433
10*14568	5-14-5	X	LEROY ANDERSON AND DONNA KAY ANDERSON, ET AL	772	69
041111	5-12-23	Y	EDWARD DOUGLAS GUIRE ET AL	663	91
10*16609	5-13-32	Z	C PATRICIA AND JAMES CLINTON WOBIG, ET AL	916	118
41112	5-12-22	AA	COLUMBIAN CHEMICAL COMPANY	691	363
041112	5-12-6	BB	COLUMBIAN CHEMICAL COMPANY	691	363
041112	5-12-23.1	CC	COLUMBIAN CHEMICAL COMPANY	691	363
041112	5-12-23.3	DD	COLUMBIAN CHEMICAL COMPANY	691	363
Q081144000	5-12-6.1	EE	HOWARD N WAYNE AND DENISE D WAYNE	816	532



David L Jackson

P.S.
708

05/20/2022



TUG HILL
OPERATING

OPERATOR'S
WELL #: Bardstown N-11HU
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV

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