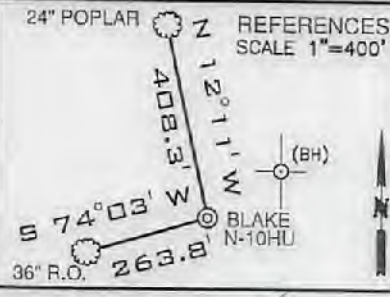


BOTTOM HOLE LATITUDE: 39°47'30"

TOP HOLE LATITUDE: 39°47'30"

BLAKE LEASE WELL N-10HU 400.4332± ACRES

NUMBER	CHORD DIRECTION	CHORD LENGTH	RADIUS	ARC LENGTH
C42	N 08°38' W	31.81	90.51	31.97
C43	N 25°17' W	90.27	413.40	90.45
C44	N 34°10' W	173.47	1568.81	173.55
C45	N 40°44' W	439.92	3925.02	440.15



LINE	BEARING	DISTANCE
L1	S 58°23' W	1431.14'
L2	N 01°30' E	1721.04'
L3	N 44°02' W	73.30'
L4	N 04°49' E	350.89'

GRID NORTH

- NOTES
1. BORE PATH BASED ON GRID NORTH.
 2. NO WATER WELLS WITHIN 250' OF WELL WERE FOUND. NO DWELLINGS WITHIN 625' OF PAD CENTER WERE FOUND.
 3. OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN NOVEMBER, 2018. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
 4. WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.
 5. ALL DEEP WELLS WITHIN 3,000' 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)

SURFACE HOLE

UTM. NAD83, ZONE 17
IN METERS
N) 4,401,568.77
E) 516,697.65

LANDING POINT 1

UTM. NAD83, ZONE 17
IN METERS
N) 4,401,868.78
E) 516,555.72

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

BOTTOM HOLE

UTM. NAD83, ZONE 17
IN METERS
N) 4,404,087.44
E) 514,356.20

FILE NUMBER _____

DRAWING NUMBER BLAKE_N-10HU_REV 1

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
Clarksburg, WV 26302
304-623-5851



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

DATE: APRIL 1, 2019

REVISED: APRIL 11, 2019

OPERATORS WELL NO. BLAKE N-10HU

API WELL NO. 47-051-02204 H6A

STATE WV COUNTY MARSHALL PERMIT 47-051-02204 H6A

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

LOCATION ELEVATION 1326.0' 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 BLAKE, ET AL ACREAGE 66.0

OIL & GAS ROYALTY OWNER RUSSELL BLAKE, ET AL LEASE ACREAGE 66.0

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: 11,376' TMD: 21,871'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
CT CORPORATION SYSTEM

ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107 CHARLESTON, WV 25313

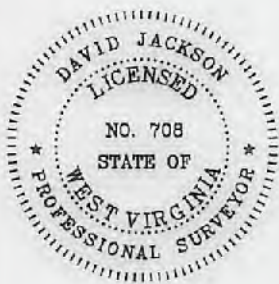
COUNTY NAME PERMIT

**BLAKE LEASE
WELL N-10HU
400.4332± ACRES**

Number	TAX MAP -PARCEL	SURFACE OWNER	ACRES
S1	05-22-04	CONSOL RCPC, LLC	159.05
S2	B 05-19-20	WILBERT H. BUNGARD ET UX	114.989
S3	G 05-19-04	JUSTIN RINE	82.75
S4	05-14-02	JOHN B. WILLIAMS, ET AL	20.17
S5	05-13-41C	BENTON DARRAH, LILLIE MAY DUGAN, ALMA BITMER, 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	89.59
S12	05-13-33	NATHAN D. YODER	142.03
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
S16	P 05-13-30	CINDY D. ALIFF	3.0
S17	05-13-28.1	CINDY D. ALIFF	1.80
S18	05-13-29	W.V. DEPT. OF HIGHWAYS	1.0
S19	O 05-13-31	CNX LAND RESOURCES, INC.	31.723
S20	05-13-31.1	W.V. DEPT. OF HIGHWAYS	0.277
S21	05-13-31.2	CNX LAND RESOURCES, INC.	0.938
S22	05-12-27	CONSOL RCPC, LLC	0.67
S23	05-12-26	OHIO RIVER R.R. CO.	4.00
S24	05-12-28	W.V. DEPT. OF HIGHWAYS	1.1
S26	05-12-24.2	W.V. DEPT. OF HIGHWAYS	0.539
S27	05-12-25	OHIO RIVER R.R. CO.	12.8
S28	05-12-24	W.V. DEPT. OF HIGHWAYS	0.964
S29	05-12-24.3	CONSOL RCPC, LLC	18.523
S30	05-12-24.1	W.V. DEPT. OF HIGHWAYS	0.994
S31	05-12-23.2	CONSOLIDATION COAL COMPANY MURRAY ENERGY & CONSOL. RCPC, LLC	12.50
S32	05-12-22	CONSOL RCPC, LLC	0.944
S33	J 05-14-07	DONNA K. & LEROY ANDERSON	4.60
S34	05-14-16	GEORGE A. KNUTH	1.6386
S35	05-14-9.3	VERNIE A. RINE, ET UX	4.118
S36	05-14-9.4	VERNIE A. RINE, ET UX	3.404
S37	05-14-10.3	VERNIE A. & JODY K. RINE	1.54
S38	H 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, ET AL	135.100
S43	05-14-14	ROBERT L. SHIELDS ET AL	29.05
S44	05-19-06	BELINDA K. MEADOWS, REBECCA ANN SHEILDS & OLAN 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	05-19-7	OLAN V. RUTAN, ET UX	32.4801
S49	05-19-7.1	ROBERT L. SHIELDS, ET AL	3.399
S50	E 05-19-20.2	CASANDRA L. HARMON	7.448
S51	D 05-19-20.1	JOHN J. EBERT, LIFE	3.848
S52	C 05-19-20.3	SIDNEY HARMON	3.715
S53	05-19-7.5	ADAM T. & JESSE L. ROBINSON	2.640
S54	05-19-8	CONSOL 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 MENENDEZ	10.44
S59	05-19-29	ERNIE L. & TAMMY L. ANDERSON	10.981
S60	05-19-15	B.J. HERRAN REVOCABLE TRUST	0.177
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. & JESSE L. ROBINSON	3.343

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 #16 ACRES
- 05-13-41C MAPPED AS PART OF 05-13-41. NOT ASSESSED.



David L Jackson

P.S.
708



**TUG HILL
OPERATING**

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

WELL PLAT
PAGE 2 OF 3
DATE: 04/01/2019
REVISED: 04/11/2019

**BLAKE LEASE
WELL N-10HU
400.4332± ACRES**

Lease No.	Tags	Parcel	Grantor, Lessor, etc.	Book	Pg
10*14634	A	5-19-19	RUSSELL BLAKE & MARY BLAKE	773	568
10*14141	B	5-19-20	DAVID TAKACH AND WIFE DEBORAH	720	233
10*14141	C	5-19-20.3	DAVID TAKACH AND WIFE DEBORAH	720	233
10*14141	D	5-19-20.1	DAVID TAKACH AND WIFE DEBORAH	720	233
10*14141	E	5-19-20.2	DAVID TAKACH AND WIFE DEBORAH	720	233
10*14925	F	5-19-5	MOUNTAIN TOP PRODUCTIONS LLC	840	444
10*14612	G	5-19-4	HAYHURST COMPANY ET AL	708	107
10*18121	H	5-14-8	LAWRENCE EUGENE ANDERSON AND NICOLE M ANDERSON	927	68
10*14568	I	5-14-3	LEROY ANDERSON & DONNA K ANDERSON	772	69
10*14945	J	5-14-7	LEROY ANDERSON AND DONNA K ANDERSON	735	433
10*14568	K	5-14-5	LEROY ANDERSON & DONNA K ANDERSON ET AL	772	69
10*14568	L	5-14-4	LEROY ANDERSON & DONNA K ANDERSON	772	69
041111	M	5-12-23	EDWARD DOUGLAS GUIRE ET AL	663	91
10*16609	N	5-13-32	C PATRICIA WOBIG ET AL	916	118
10*14688	O	5-13-31	DEBBIE RICHMOND ET AL	786	398
10*14636	P	5-13-30	WANDA RIDING ET AL	794	503



P.S.
708

David L Jackson



TUG HILL
OPERATING

OPERATOR'S

WELL #: Blake N-10HU

DISTRICT: Franklin

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WELL PLAT

PAGE 3 OF 3

DATE: 04/01/2019

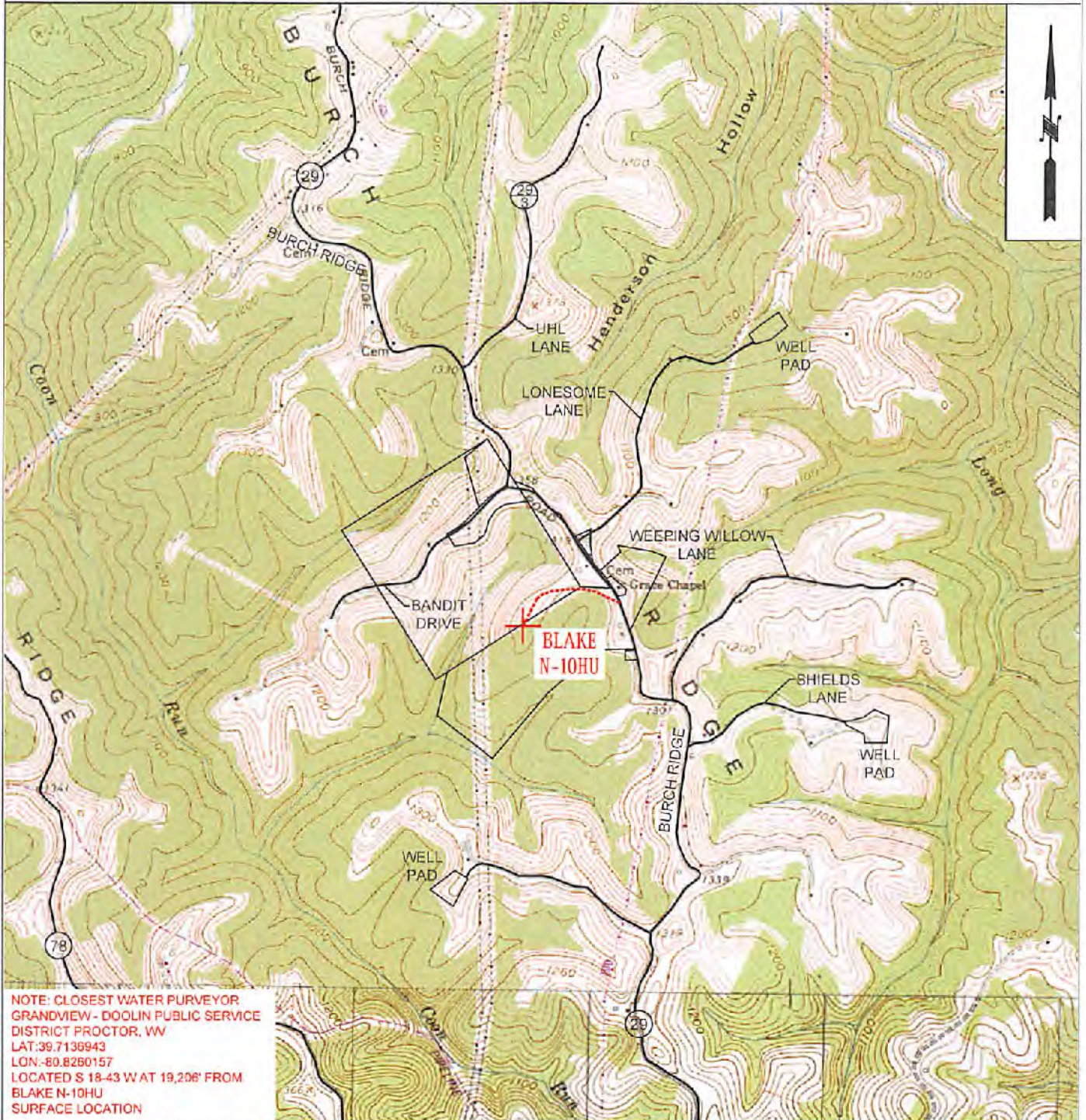
REVISED: 04/11/2019

WW-9


PROPOSED BLAKE N-10HU

SUPPLEMENT PG 2

4705 102204



NOTE: CLOSEST WATER PURVEYOR
 GRANDVIEW - DOOLIN PUBLIC SERVICE
 DISTRICT PROCTOR, WV
 LAT: 39.7136943
 LON: -80.8260157
 LOCATED S 18-43 W AT 19,206' FROM
 BLAKE N-10HU
 SURFACE LOCATION

 TUG HILL OPERATING	OPERATOR	494510851	TOPO SECTION	LEASE NAME
	TUG HILL OPERATING, LLC 380 SOUTHPOINTE BLVD SUITE 200 CANONSBURG, PA 15317		POWHATAN POINT 75'	BLAKE
			SCALE:	DATE:
			1" = 2000'	DATE: 11-20-2018