

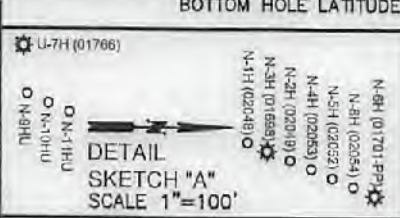
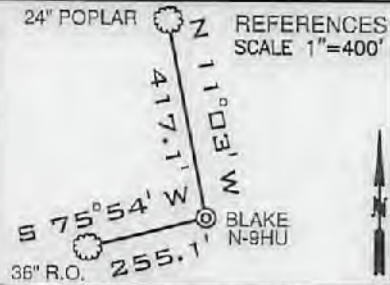
(BH) 2,084' (TH) 3,815'

BOTTOM HOLE LATITUDE: 39°47'30"

TOP HOLE LATITUDE: 39°47'30"

**BLAKE LEASE
WELL N-9HU
499.5196± ACRES**

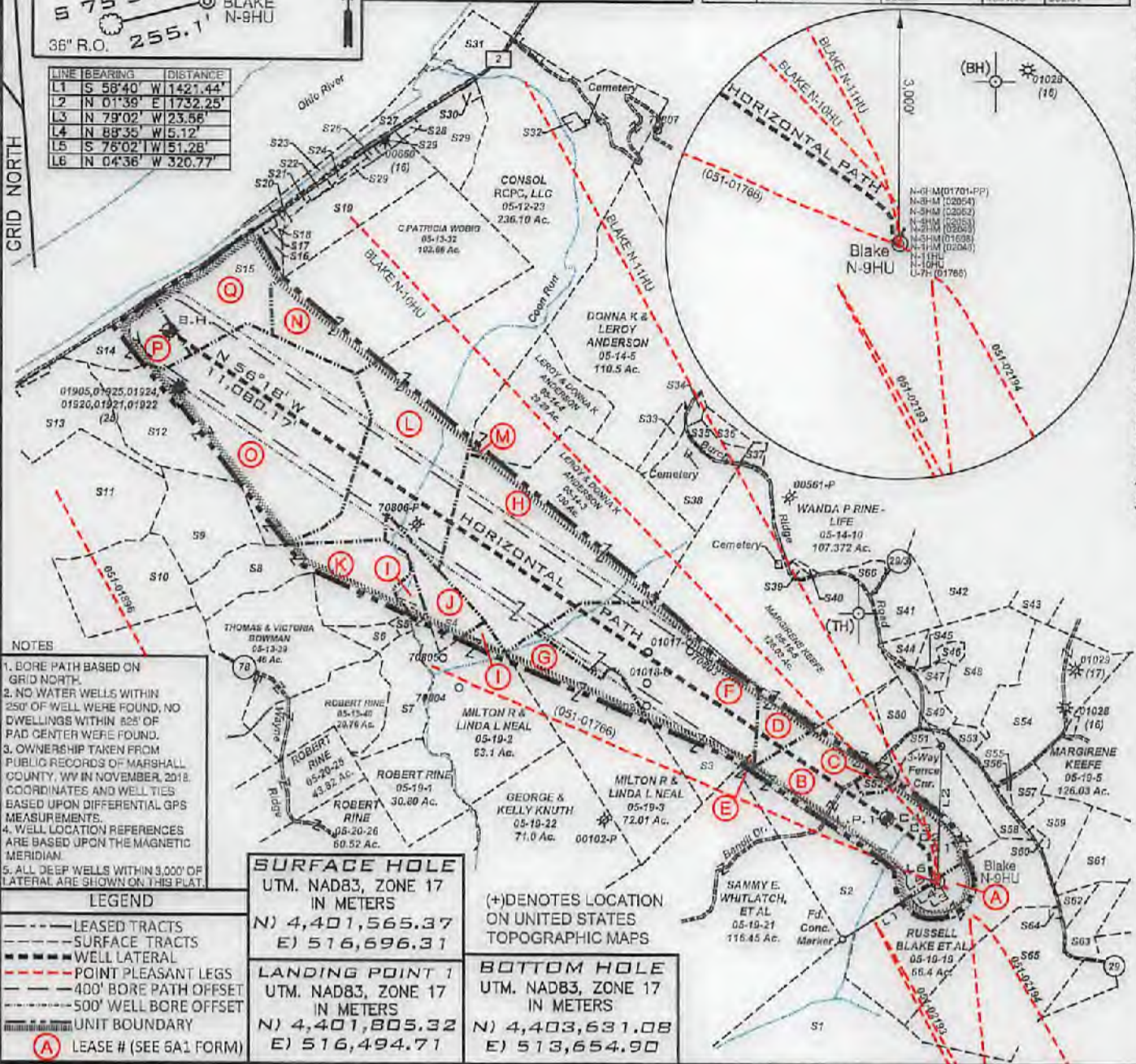
NUMBER	CHORD DIRECTION	CHORD LENGTH	RADIUS	ARC LENGTH
C1	N 20° 11' W	34.80	59.44	33.03
C2	N 39° 08' W	120.98	525.05	121.34
C3	N 48° 23' W	220.33	1995.89	229.46
C4	N 53° 58' W	382.50	4054.16	352.61



LINE	BEARING	DISTANCE
L1	S 58°40' W	1421.44'
L2	N 01°39' E	1732.25'
L3	N 79°02' W	23.56'
L4	N 88°35' W	5.12'
L5	S 78°02' W	51.28'
L6	N 04°36' W	320.77'

GRID NORTH

(BH) BOTTOM HOLE LONGITUDE: 80°50'00" (TH) TOP HOLE LONGITUDE: 80°50'00"



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

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,401,565.37
E) 516,696.31

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,401,805.32
E) 516,494.71

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,403,631.08
E) 513,654.90

FILE NUMBER _____

DRAWING NUMBER BLAKE_N-9HU 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

P.S. 708



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 01, 2019
OPERATORS WELL NO. BLAKE N-9HU
API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
STATE 47 COUNTY 051 PERMIT 02203

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) _____
PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD: 11,376' TMD: 22,694'
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

form wv6

**BLAKE LEASE
WELL N-9HU
499.5196 ± ACRES**

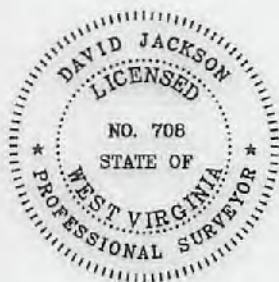
Number	TAX MAP -PARCEL	SURFACE OWNER	ACRES
S1	05-22-04	CONSOL RCPC, LLC	159.05
S2	B 05-19-20	WILBERT H. BUNGARD ET UX	114.989
S3	F 05-19-04	JUSTIN RINE	82.75
S4	J 05-14-02	JOHN B. WILLIAMS, ET AL	20.17
S5	05-13-41C	BENTON DARRAH, LILLIE MAY DUGAN, ALMA BITMER, ALBERTA PALMER & AUDREY HOWARD	1.0
S6	05-13-41B	LARRY & JUDY DARRAH	2.50
S7	05-13-41A	RODNEY & RHONDA JACKSON	17.05
S8	K 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	O 05-13-33	NATHAN D. YODER	142.03
S13	05-13-25	AARON PAUL HOLDREN, ET UX	30.0
S14	P 05-13-27	AARON PAUL HOLDREN, ET UX	25.0
S15	Q 05-13-28	AARON PAUL HOLDREN, ET UX	17.0
S16	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	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	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	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 SHIELDS & 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	05-19-20.2	CASANDRA L. HARMON	7.448
S51	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	10.961
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 4.15 ACRES
- 05-13-41C MAPPED AS PART OF 05-13-41. NOT ASSESSED.

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4705102203



P.S.
708

David L Jackson



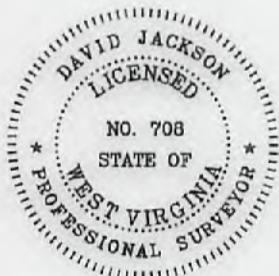
**TUG HILL
OPERATING**

OPERATOR'S
WELL #: Blake N-9HU
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV

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

**BLAKE LEASE
WELL N-9HU
499.5196 ± ACRES**

Lease No.	Tag	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*14925	D	5-19-5	MOUNTAIN TOP PRODUCTIONS LLC	840	444
10*14100	E	5-19-21	SAMMY EDWARD WHITLATCH	665	369
10*14101	E	5-19-21	RICHARD P WHITLATCH	665	366
10*14102	E	5-19-21	GLORIA TERRILL	698	633
10*14103	E	5-19-21	ROSE R DAUGHERTY AND JAMES N	698	635
10*14104	E	5-19-21	GLENNA ANDERSON AND DALE ANDERSON	698	625
10*14105	E	5-19-21	WENDELL RINE AND CAROLYN RINE	698	627
10*14106	E	5-19-21	GARY ERINE	698	629
10*14107	E	5-19-21	ARCHIE WAYNE WHIPKEY	698	631
10*14108	E	5-19-21	LOIS M MYERS	698	637
10*14612	F	5-19-4	HAYHURST COMPANY	708	107
10*14613	F	5-19-4	CHESTNUT HOLDINGS INC	827	556
10*14023	G	5-19-3	MILTON R. NEAL AND WIFE, LINDA	665	503
10*14568	H	5-14-3	LEROY ANDERSON & DONNA K ANDERSON	772	69
10*14040	I	5-19-2	MILTON R NEAL AND WIFE LINDA L	665	498
10*14041	I	5-19-2	SHIBEN ESTATES INC	718	496
10*14908	J	5-14-2	MICHAEL WILLIAMS	816	14
10*14909	J	5-14-2	JULIA GRIEWANK	816	346
10*14526	K	5-13-42	THOMAS WILLIAM BOWMAN	761	432
10*14527	K	5-13-42	VICTORIA BOWMAN	761	434
041112	L	5-12-23	COLUMBIAN CHEMICALS COMPANY	691	363
10*14568	M	5-14-4	LEROY ANDERSON & DONNA K ANDE	772	69
10*16609	N	5-13-32	C PATRICIA WOBIG	916	118
10*16610	N	5-13-32	RICHARD B SMITH SR AND EVELYN MARIE SMITH	916	120
10*14701	O	5-13-33	ROSEITA THORNTON	885	600
10*14702	O	5-13-33	BOUNTY MINERALS LLC	708	71
10*17627	O	5-13-33	NATHAN D YODER	917	62
10*16538	P	5-13-27	AMP FUND III LP	915	187
10*14635	Q	5-13-28	COMMERCIAL OPTICAL MANUFACTURING INC	775	21
10*14636	Q	5-13-28	WANDA RIDING	794	503
10*14637	Q	5-13-28	KIMBERLY S. DENNY	794	511
10*14638	Q	5-13-28	HUGH YOHO	794	478
10*14639	Q	5-13-28	GARY PARSONS	794	521
10*14640	Q	5-13-28	SHERRI SNYDER	799	545
10*14641	Q	5-13-28	LORA LANGLEY	800	621
10*14642	Q	5-13-28	MARY B. FERRIS BY A/F REBECCA R. FERRIS SULLIVAN	808	457
10*14643	Q	5-13-28	MARTHA RENEE ROBINSON	809	541
10*14644	Q	5-13-28	CHERYL HILL	809	517
10*14645	Q	5-13-28	RANDY BERISFORD	810	328
10*14647	Q	5-13-28	JAMES W ROBINSON III	836	102
10*14648	Q	5-13-28	LORI ANN ROBINSON	836	104
10*14649	Q	5-13-28	DONALD GARY GROVES II	842	382
10*14650	Q	5-13-28	TIMOTHY DWIGHT GROVES	842	384
10*14651	Q	5-13-28	DAVID V CALDWELL	842	386
10*14652	Q	5-13-28	CANDICE GUTIERREZ	842	388
10*14653	Q	5-13-28	KRISTIN DOUGLAS	842	390
10*14942	Q	5-13-28	AARON PAUL HOLDREN	720	132
10*18375	Q	5-13-28	SARAH K SCHNEIDER AND DANIEL K SCHNEIDER	931	391
10*18375	Q	5-13-28	DENNIS D CALDWELL AND APRIL N CALDWELL	931	394



David L Jackson

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OPERATOR'S
WELL #: Blake N-9HU
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WELL PLAT
PAGE 3 OF 3
DATE: 04/01/2019

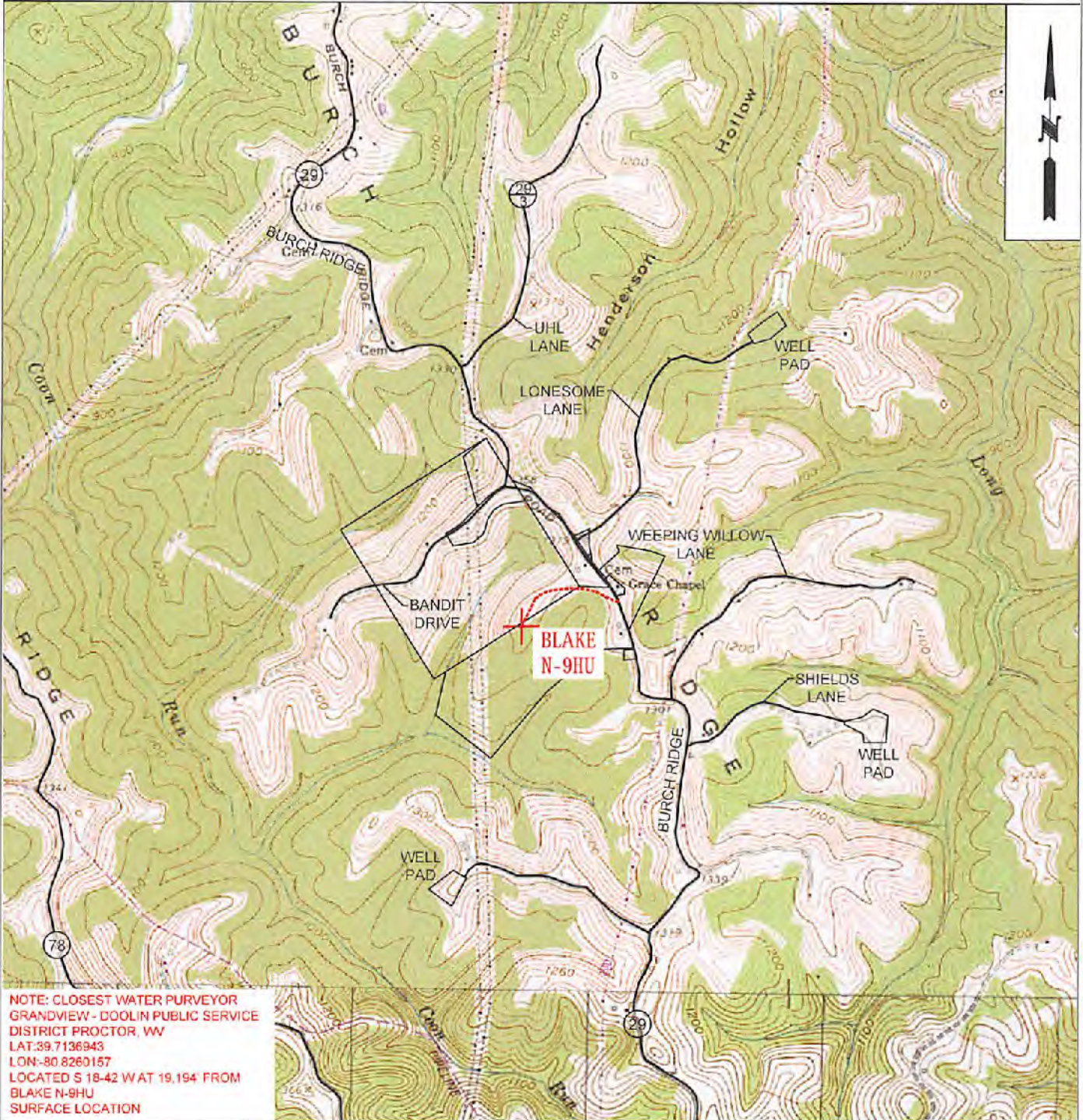



TUG HILL
OPERATING

WW-9

SUPPLEMENT PG 2

PROPOSED BLAKE N-9HU



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

WW-9

PROPOSED BLAKE
N-9HU

SUPPLEMENT PG 1

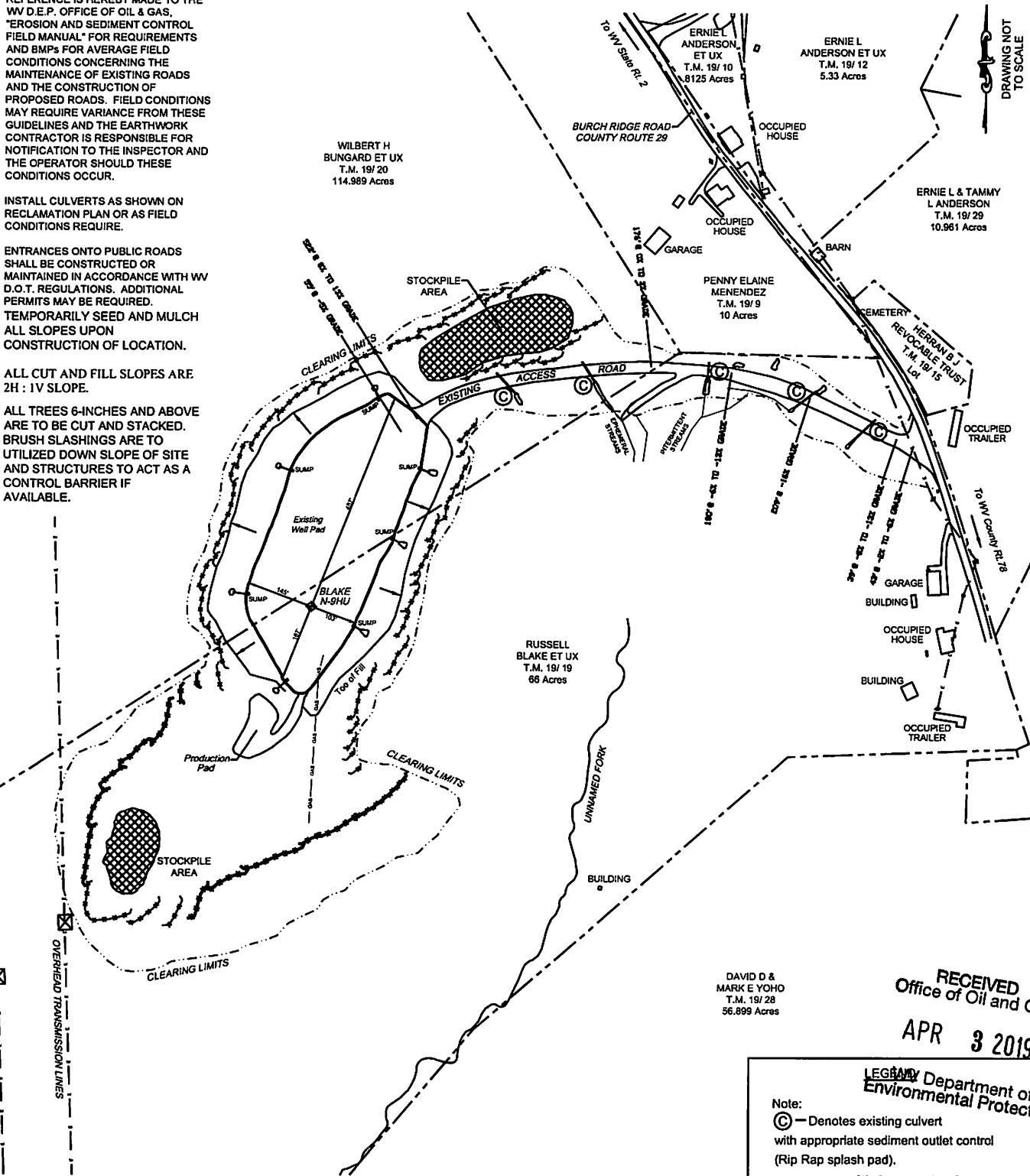
REFERENCE IS HEREBY MADE TO THE WV D.E.P. OFFICE OF OIL & GAS, "EROSION AND SEDIMENT CONTROL FIELD MANUAL" FOR REQUIREMENTS AND BMPs FOR AVERAGE FIELD CONDITIONS CONCERNING THE MAINTENANCE OF EXISTING ROADS AND THE CONSTRUCTION OF PROPOSED ROADS. FIELD CONDITIONS MAY REQUIRE VARIANCE FROM THESE GUIDELINES AND THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION TO THE INSPECTOR AND THE OPERATOR SHOULD THESE CONDITIONS OCCUR.

INSTALL CULVERTS AS SHOWN ON RECLAMATION PLAN OR AS FIELD CONDITIONS REQUIRE.

ENTRANCES ONTO PUBLIC ROADS SHALL BE CONSTRUCTED OR MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATIONS. ADDITIONAL PERMITS MAY BE REQUIRED. TEMPORARILY SEED AND MULCH ALL SLOPES UPON CONSTRUCTION OF LOCATION.

ALL CUT AND FILL SLOPES ARE 2H : 1V SLOPE.

ALL TREES 6-INCHES AND ABOVE ARE TO BE CUT AND STACKED. BRUSH SLASHINGS ARE TO UTILIZED DOWN SLOPE OF SITE AND STRUCTURES TO ACT AS A CONTROL BARRIER IF AVAILABLE.



DRAWING NOT TO SCALE

RECEIVED
Office of Oil and Gas
APR 3 2019

LEGISLATIVE Department of Environmental Protection

Note:
 (C) - Denotes existing culvert with appropriate sediment outlet control (Rip Rap splash pad).
 - - - - - Silt Fence and or Sediment and Erosion Control Measure.
 - - - - - Surface Boundary