

# HILLROCK LEASE WELL 9HM 750.788± ACRES

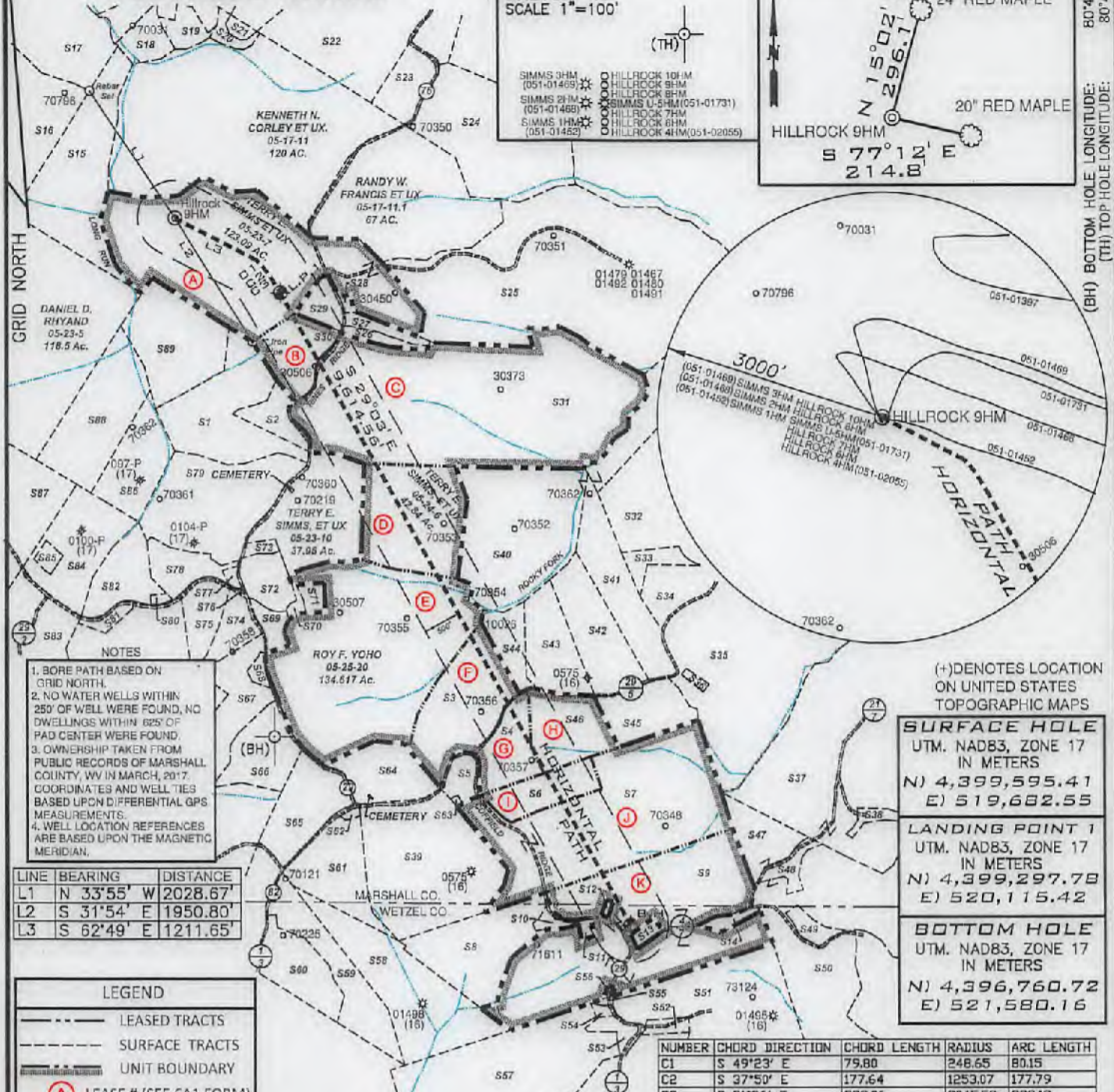
TOP HOLE LATITUDE: 39°45'00"  
BOTTOM HOLE LATITUDE: 39°45'00"

DETAIL SKETCH "A"  
SCALE 1"=100'

REFERENCES

SCALE 1"=400'

SIMMS 9HM (051-01469)  
 SIMMS 2HM (051-01468)  
 SIMMS 1HM (051-01452)  
 HILLROCK 10HM (051-01467)  
 HILLROCK 9HM (051-01480)  
 HILLROCK 8HM (051-01731)  
 HILLROCK 7HM (051-01468)  
 HILLROCK 6HM (051-01480)  
 HILLROCK 4HM (051-02055)



- 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 MARCH, 2017. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
  4. WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.

LINE	BEARING	DISTANCE
L1	N 33°55' W	2028.67'
L2	S 31°54' E	1950.80'
L3	S 62°49' E	1211.65'

LEGEND

- LEASED TRACTS
- SURFACE TRACTS
- UNIT BOUNDARY
- (A) LEASE # (SEE 6A1 FORM)

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

SURFACE HOLE	
UTM. NAD83, ZONE 17	IN METERS
N) 4,399,595.41	E) 519,682.55

LANDING POINT 1	
UTM. NAD83, ZONE 17	IN METERS
N) 4,399,297.78	E) 520,115.42

BOTTOM HOLE	
UTM. NAD83, ZONE 17	IN METERS
N) 4,396,760.72	E) 521,580.16

NUMBER	CHORD DIRECTION	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 49°23' E	79.80	248.65	80.15
C2	S 37°50' E	177.64	1253.07	177.79
C3	S 31°36' E	299.06	3045.58	299.18

FILE NUMBER \_\_\_\_\_

DRAWING NUMBER HILLROCK\_WP\_9HM

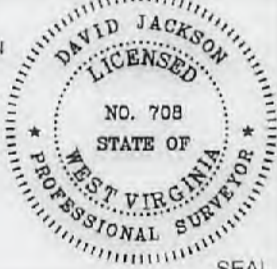
SCALE 1" = 2000'

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 1450  
Clarksburg, WV 26302  
304-523-5851

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

DATE: JUNE 26, 2018

OPERATORS WELL NO. HILLROCK 9HM

API WELL NO. 47-051-02066 H6A

STATE WV COUNTY MARSHALL PERMIT 02066

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

LOCATION ELEVATION 1219.5' WATERSHED (HUC 10) FISH CREEK

DISTRICT FRANKLIN COUNTY MARSHALL

QUADRANGLE NEW MARTINSVILLE 7.5' LEASE NUMBER SEE WW-6A1 Form

SURFACE OWNER TERRY E. & DEBORAH SIMMS ACREAGE 123.09

OIL & GAS ROYALTY OWNER TERRY E. & DEBORAH L. SIMMS, ET AL - SEE WW-6A1 FORM LEASE ACREAGE 319.91

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 MARCELLUS ESTIMATED DEPTH TVD 6,595' TMD: 16,578'

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

08/17/2018

COMPLETION NAME PERMIT



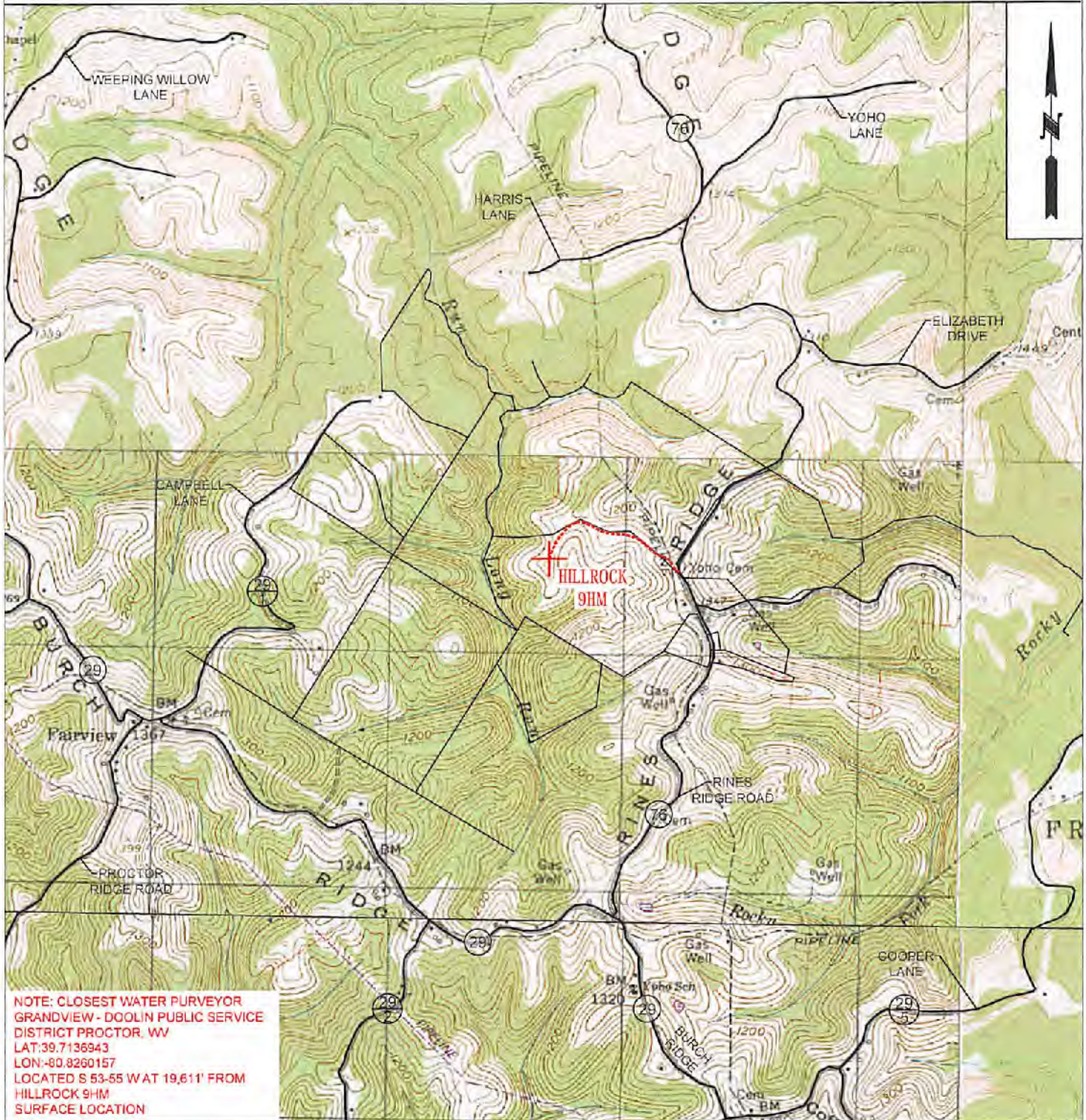
WW-9

JUL 2 2018

WV Department of  
Environmental Protection

# PROPOSED HILLROCK 9HM

SUPPLEMENT PG 2



NOTE: CLOSEST WATER PURVEYOR  
GRANDVIEW - DOOLIN PUBLIC SERVICE  
DISTRICT PROCTOR, WV  
LAT: 39.7136943  
LON: -80.8260157  
LOCATED S 53-55 WAT 19,611' FROM  
HILLROCK 9HM  
SURFACE LOCATION



OPERATOR	494510851	TOPO SECTION	LEASE NAME
TUG HILL OPERATING, LLC 380 SOUTHPOINTE BLVD SUITE 200 CANONSBURG, PA 15317		NEW MARTINSVILLE 7.5'	HILLROCK
		SCALE:	DATE:
		1" = 2000'	DATE: 06-11-2018

08/17/2018