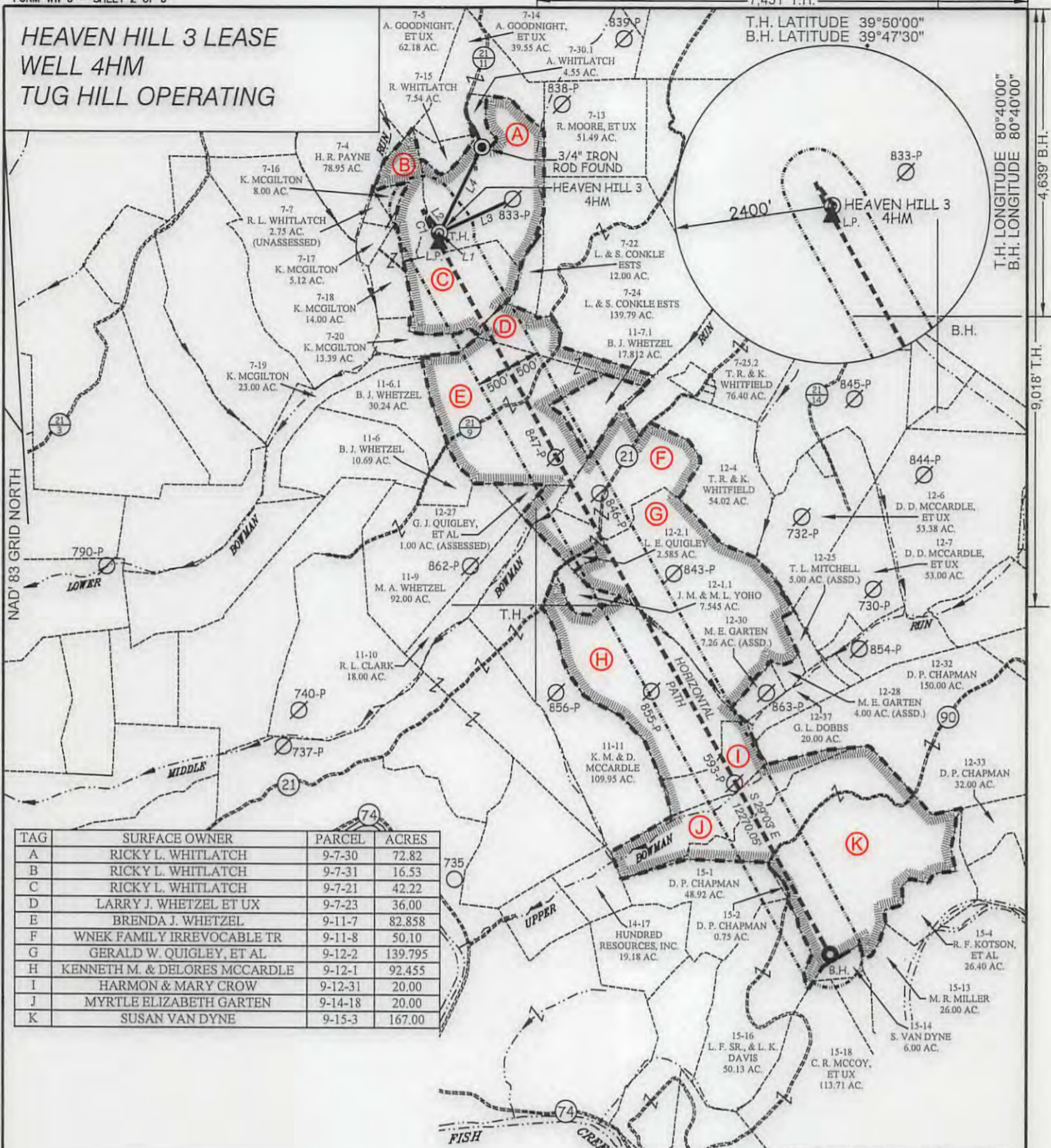


**HEAVEN HILL 3 LEASE
WELL 4HM
TUG HILL OPERATING**

T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°47'30"

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°40'00"

4,639' B.H.
9,018' T.H.



TAG	SURFACE OWNER	PARCEL	ACRES
A	RICKY L. WHITLATCH	9-7-30	72.82
B	RICKY L. WHITLATCH	9-7-31	16.53
C	RICKY L. WHITLATCH	9-7-21	42.22
D	LARRY J. WHETZEL ET UX	9-7-23	36.00
E	BRENDA J. WHETZEL	9-11-7	82.858
F	WNEK FAMILY IRREVOCABLE TR	9-11-8	50.10
G	GERALD W. QUIGLEY, ET AL	9-12-2	139.795
H	KENNETH M. & DELORES MCCARDLE	9-12-1	92.455
I	HARMON & MARY CROW	9-12-31	20.00
J	MYRTLE ELIZABETH GARTEN	9-14-18	20.00
K	SUSAN VAN DYNE	9-15-3	167.00

LINE	BEARING	DISTANCE
L1	S 89°03' E	34.03'
L2	N 39°35' W	460.32'
L3	N 65°30' E	1224.67'
L4	N 26°42' E	1440.77'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	564.21'	3934.77'	S 26°26' E	563.72'

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(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'83 S.P.C.(FT) N. 478,850.79 E. 1,633,308.44
 NAD'83 GEO. LAT-(N) 39.808577 LONG-(W) 80.693191
 NAD'83 UTM (M) N. 4,406,556.46 E. 526,262.12
LANDING POINT
 NAD'83 S.P.C.(FT) N. 478,700.2 E. 1,633,300.2
 NAD'83 GEO. LAT-(N) 39.808163 LONG-(W) 80.693213
 NAD'83 UTM (M) N. 4,406,510.6 E. 526,260.4
BOTTOM HOLE
 NAD'83 S.P.C.(FT) N. 467,973.0 E. 1,639,256.8
 NAD'83 GEO. LAT-(N) 39.778931 LONG-(W) 80.671514
 NAD'83 UTM (M) N. 4,403,272.8 E. 528,129.7

GREGORY A. SMITH
LICENSED
No. 677
STATE OF
WEST VIRGINIA
PROFESSIONAL SURVEYOR

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

LEGEND

- LEASE LINE
- SURFACE LINE
- WELL LATERAL
- OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- TAX MAP-PARCEL
- LEASE # (SEE PGS. 3,4,5,6)
- SURFACE OWNER (SEE TABLE)

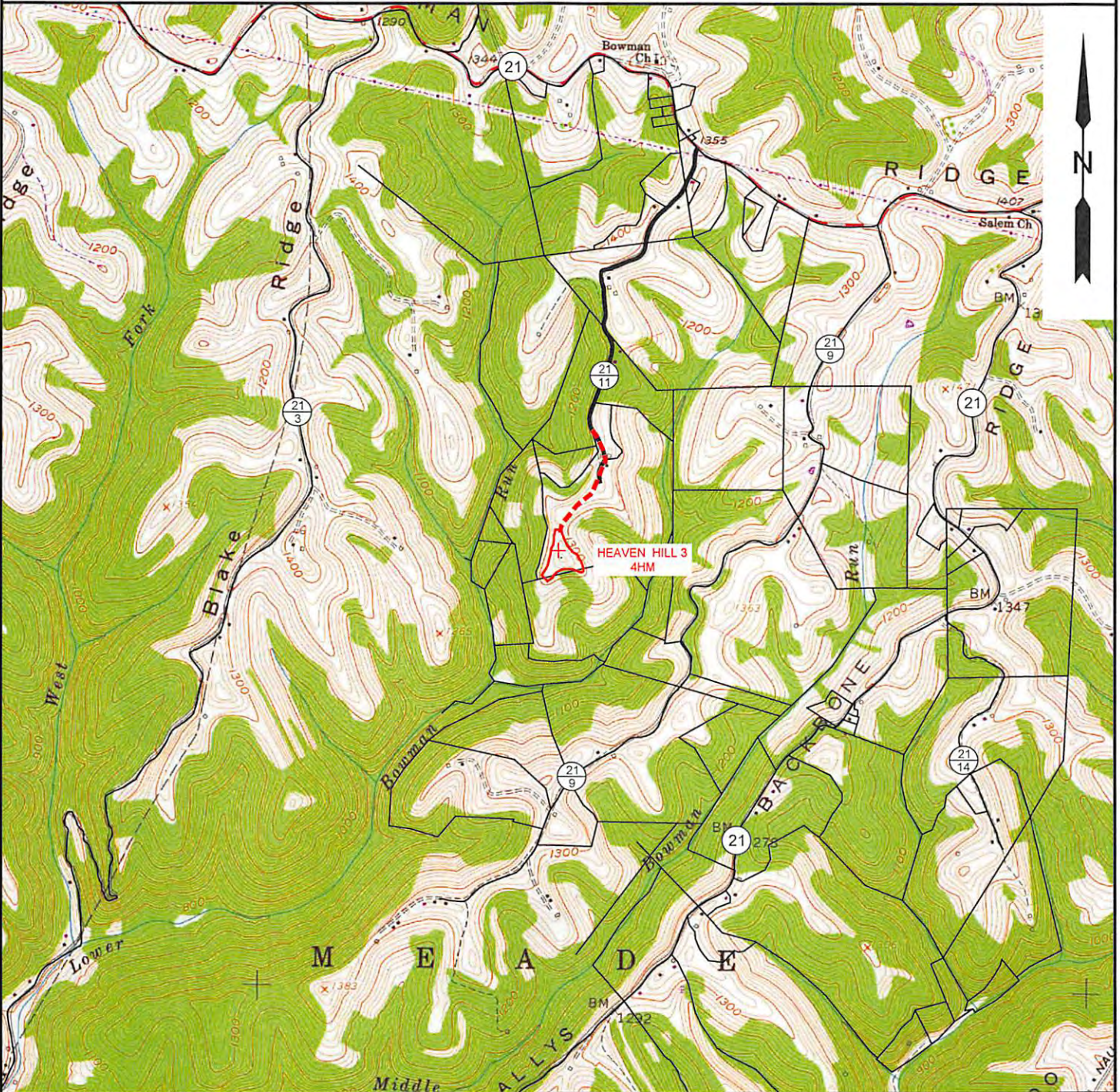
09/15/2017

SCALE 1" = 2000' FILE NO. 8654P4HM.dwg
 DATE JUNE 30, 20 17
 REVISED _____, 20 _____
 OPERATORS WELL NO. HEAVEN HILL 3-4HM
 API WELL 47 - 051 - 01947
 NO. STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DIVISION OF
 ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
 ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
 FORT WORTH, TX 76107 CHARLESTON, WV 25313

PROPOSED HEAVEN HILL 3 - 4HM



NOTE: CLOSEST WATER PURVEYOR
GRANDVIEW - DOOLIN PUBLIC SERVICE DISTRICT
PROCTOR, WV

LAT: 39.7137712
LON: -80.8258327
LOCATED: S 47°57'55" W AT 50,802' FROM HEAVEN HILL 3 - 4HM SURFACE LOCATION

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TOPO SECTION:		OPERATOR:	
GLEN EASTON 7.5'		PREPARED FOR:	
COUNTY	DISTRICT	TUG HILL OPERATING, LLC	
MARSHALL	MEADE	380 SOUTHPOINTE BLVD	
		SUITE 200	
		CANONSBURG, PA 15317	
DRAWN BY	JOB NO.	DATE	SCALE
K.G.M.	8654	06/29/2017	1" = 2000'

TUG HILL
OPERATING

09/15/2017