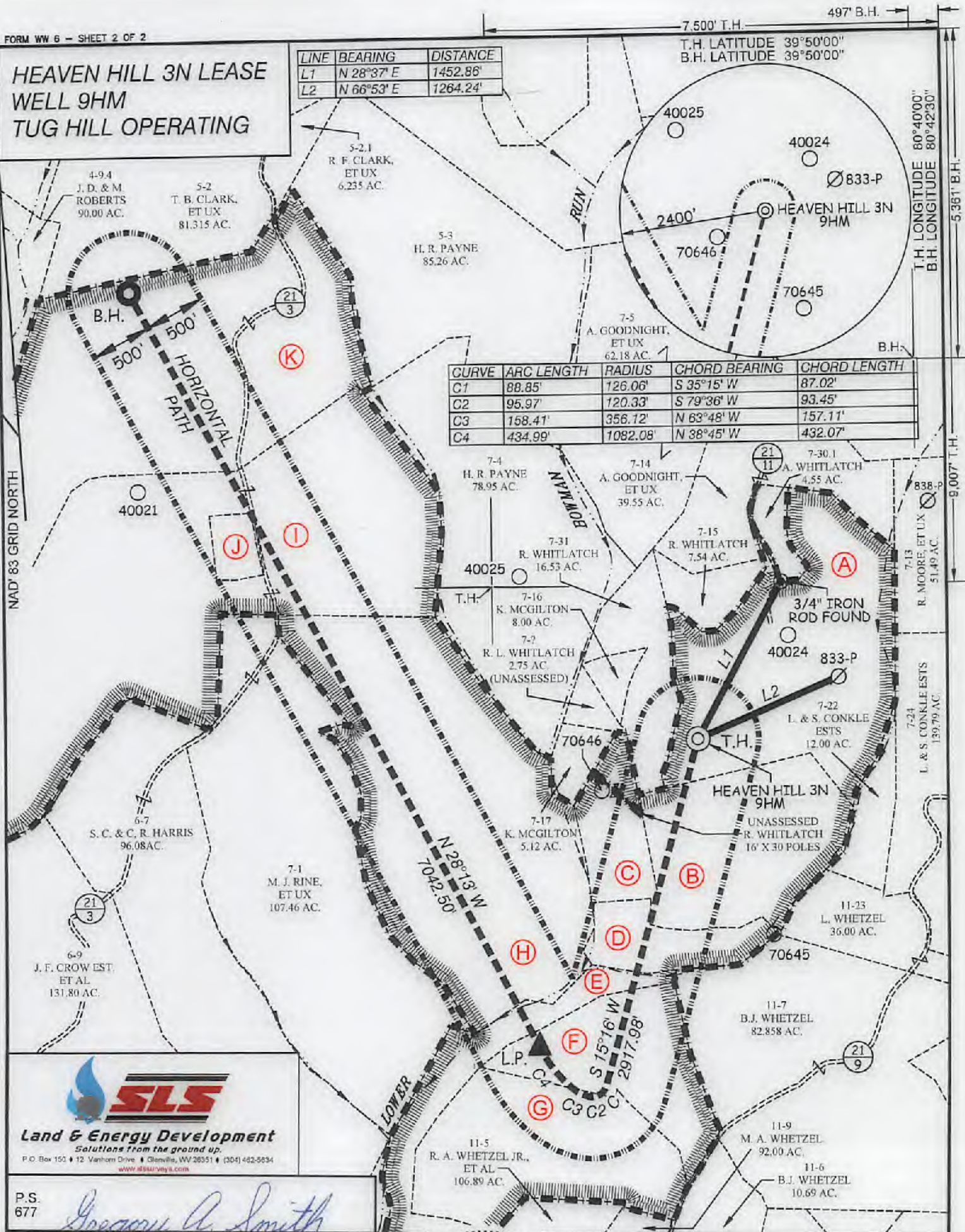


**HEAVEN HILL 3N LEASE  
WELL 9HM  
TUG HILL OPERATING**

LINE	BEARING	DISTANCE
L1	N 28°37' E	1452.86'
L2	N 66°53' E	1264.24'

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

T.H. LONGITUDE 80°40'00"  
B.H. LONGITUDE 80°42'30"



CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	88.85'	126.06'	S 35°15' W	87.02'
C2	95.97'	120.33'	S 79°36' W	93.45'
C3	158.41'	356.12'	N 63°48' W	157.11'
C4	434.99'	1092.08'	N 38°45' W	432.07'

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www.slsurvey.com

P.S. 677  
*Gregory A. Smith*

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'83 S.P.C.(FT)	N. 478,862.62	E. 1,633,260.01
NAD'83 GEO.	LAT-(N) 39.808607	LONG-(W) 80.693364
NAD'83 UTM (M)	N. 4,406,559.79	E. 528,247.31

LANDING POINT

NAD'83 S.P.C.(FT)	N. 476,368.0	E. 1,631,938.0
NAD'83 GEO.	LAT-(N) 39.801705	LONG-(W) 80.697951
NAD'83 UTM (M)	N. 4,405,792.5	E. 525,857.3

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 482,571.3	E. 1,628,607.6
NAD'83 GEO.	LAT-(N) 39.818617	LONG-(W) 80.710101
NAD'83 UTM (M)	N. 4,407,686.0	E. 524,811.1



(+) 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	00-00
LEASE # (SEE WW-6A1)	
SURFACE OWNER (SEE TABLE)	

SCALE 1" = 1000' FILE NO. 8654P9HM.dwg  
DATE FEBRUARY 14, 2018  
REVISED MAY 17, 2018  
OPERATORS WELL NO. HEAVEN HILL 3N-9HM  
API WELL NO. 47-051-02015  
STATE COUNTY PERMIT

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

DESIGNATED AGENT DIANNA STAMPER  
ADDRESS 5400 D BIG TYLER ROAD  
CHARLESTON, WV 25313

WELL OPERATOR TUG HILL OPERATING, LLC  
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500  
FORT WORTH, TX 76107

COUNTY NAME PERMIT

05/25/2018

**HEAVEN HILL 3N LEASE  
WELL 9HM  
TUG HILL OPERATING**

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

T.H. LONGITUDE 80°40'00"  
B.H. LONGITUDE 80°42'30"

5,361' B.H.

9,007' T.H.

B.H.

**(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)**

NAD'83 S.P.C.(FT) N. 478,862.82 E. 1,633,260.01  
NAD'83 GEO. LAT-(N) 39.806607 LONG-(W) 80.693364  
NAD'83 UTM (M) N. 4,406,559.79 E. 526,247.31

**LANDING POINT**

NAD'83 S.P.C.(FT) N. 476,366.0 E. 1,631,938.0  
NAD'83 GEO. LAT-(N) 39.801705 LONG-(W) 80.697951  
NAD'83 UTM (M) N. 4,405,792.5 E. 525,857.3

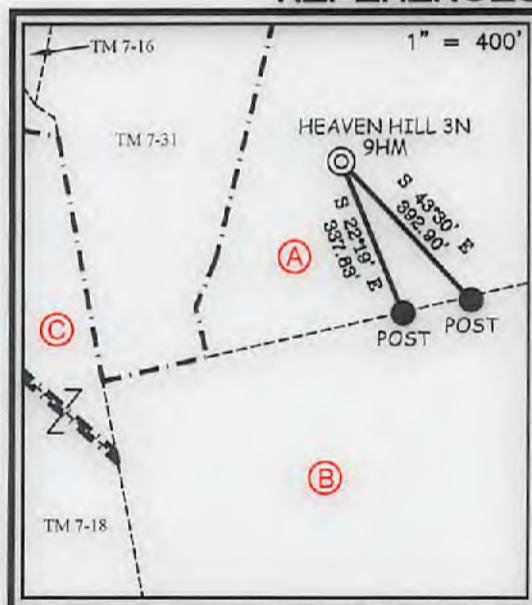
**BOTTOM HOLE**

NAD'83 S.P.C.(FT) N. 482,571.3 E. 1,628,607.6  
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NAD'83 UTM (M) N. 4,407,666.0 E. 524,811.1

TAG	SURFACE OWNER	PARCEL	ACRES
A	RICKY L. WHITLATCH	9-7-30	72.82
B	RICKY L. WHITLATCH	9-7-21	42.22
C	KEVIN E. MCGILTON	9-7-18	14.00
D	KEVIN E. MCGILTON	9-7-20	13.39
E	KEVIN E. MCGILTON	9-7-19	23.00
F	BRENDA J. WHETZEL	9-11-6.1	30.24
G	WILLIAM F. & JULIE A. KERNS	9-11-6.2	46.47
H	CONSOL MINING COMPANY LLC	9-7-2	116.12
I	CHARLES R. JR. & ANNE MARIE HAGEDORN	9-7-3	203.074
J	CHARLES R. JR. & ANNE MARIE HAGEDORN	9-7-3.1	4.579
K	TERRY L. SAMPSON, ET UX	9-5-1	111.71



**REFERENCES**



**NOTES ON SURVEY**

1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 825' OF THE CENTER OF PROPOSED WELL PAD.
2. WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'

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www.slsurveyors.com

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE FEBRUARY 14, 20 18  
REVISED MAY 17, 20 18  
OPERATORS WELL NO. HEAVEN HILL 3N-9HM  
API WELL NO. 47 - 051 - 02015  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8654P9HM.dwg  
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 1000'

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

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: GROUND = 1,337.60' ELEVATION PROPOSED = 1,326.35' WATERSHED LOWER BOWMAN RUN OF FISH CREEK (HUC 10) DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER RICKY L. WHITLATCH ACREAGE 72.82±  
ROYALTY OWNER RICKY L. WHITLATCH, ET AL - SEE WW-6A1 ACREAGE 72.82±

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD: 6,876' / TMD: 15,165'

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

COUNTY NAME PERMIT

05/25/2018