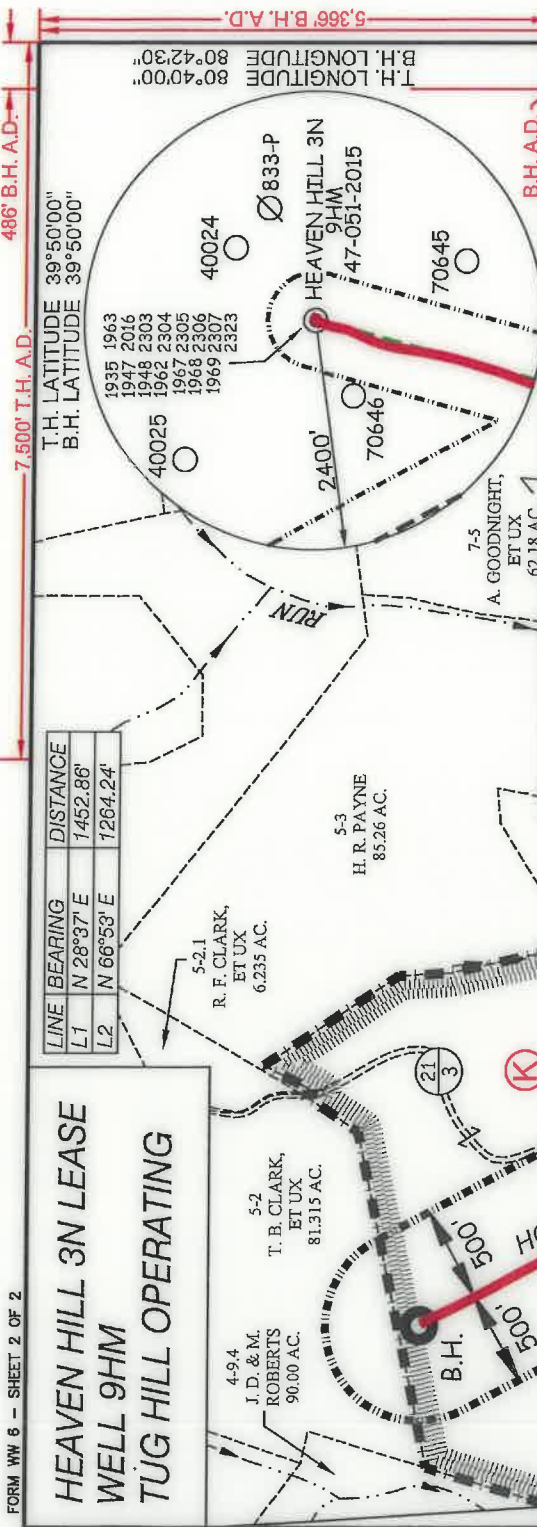


**HEAVEN HILL 3N LEASE  
WELL 9HM  
TUG HILL OPERATING**

LINE BEARING	DISTANCE
L1 N 28°37' E	1452.86'
L2 N 66°53' E	1284.24'



CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	88.85'	126.06'	S 36°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'	1082.08'	N 38°45' W	432.07'

NAD'83 GRID NORTH

**AS DRILLED COORDINATES  
FOR WELL NO. 9HM**

(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) 39.808607	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. 479,579.8	E. 1,631,821.0	
NAD'83 GEO.	LAT-(N) 39.802288	LONG-(W) 80.699378	
NAD'83 UTM (M)	N. 4,405,957.0	E. 525,820.5	
BOTTOM HOLE			
NAD'83 S.P.C.(FT)	N. 482,565.6	E. 1,628,616.4	
NAD'83 GEO.	LAT-(N) 39.818802	LONG-(W) 80.710093	
NAD'83 UTM (M)	N. 4,407,684.3	E. 524,814.4	



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.652.6564  
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.246.3952  
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296  
 a1sxy.com

P.S. *C. Victor Moyers*  
 849

(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) 39.808607	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	
NAD'83 GEO.	LAT-(N) 39.818617	LONG-(W) 80.710101	
NAD'83 UTM (M)	N. 4,407,666.0	E. 524,811.1	

SCALE	1" = 1000'	FILE NO.	8654P9HMADR.dwg
DATE	MAY 26		20 20
REVISED	JUNE 12		20 20
OPERATORS WELL NO.	HEAVEN HILL 3N-9HM		
API WELL NO.	47-051-02015		
NO.	STATE	COUNTY	PERMIT

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

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



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



(+) 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 WW-6A1)
- SURFACE OWNER (SEE TABLE)

COUNTY NAME PERMIT

7,500' T.H. A.D.

486' B.H. A.D.

9,007' T.H. A.D.

5,366' B.H. A.D.

T.H. LATITUDE 39°50'00"  
 B.H. LATITUDE 39°50'00"  
 T.H. LONGITUDE 80°42'30"  
 B.H. LONGITUDE 80°42'30"

B.H. A.D.

LEGEND  
 AS DRILLED  
 PROPOSED



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

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)  
 NAD83 S.P.C.(FT) N. 478,862.82 E. 1,633,260.01  
 NAD83 GEO. LAT.-(N) 39.808607 LONG-(W) 80.693864  
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 NAD83 GEO. LAT.-(N) 39.818617 LONG-(W) 80.710101  
 NAD83 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. WHEITZEL	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

**NOTES ON SURVEY**

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'
- AS-DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC
- PLAT UPDATED TO SHOW AS-DRILLED PATH.



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 1413 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.5952  
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.3296  
 dsww.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. 849  
*C. Victor Moyers*



MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8654P9HMADR.dwg  
 HORIZONTAL & VERTICAL SCALE 1" = 1000'  
 CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORNS NETWORK)

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

LOCATION: ELEVATION PROPOSED = 1,326.35' GROUND = 1,337.60'  
 DISTRICT MEADE WATERSHED LOWER BOWMAN RUN OF FISH CREEK (HUC 10)  
 COUNTY MARSHALL  
 SURFACE OWNER RICKY L. WHITLATCH  
 ROYALTY OWNER RICKY L. WHITLATCH, ET AL - SEE WW-6A1  
 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: 15,275'

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

7,500' T.H.A.D.

486' B.H.A.D.

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

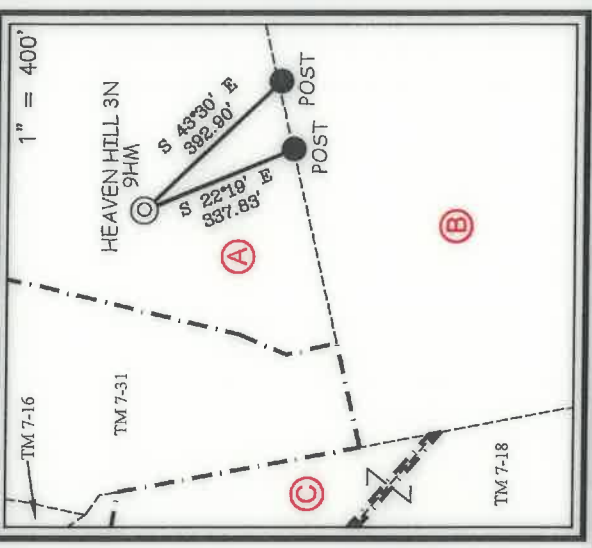
T.H. LONGITUDE 80°42'30"  
 B.H. LONGITUDE 80°42'30"

B.H.A.D.

9,007' T.H.A.D.

T.H.  
 A.D.

**REFERENCES**



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE MAY 26, 2020  
 REVISED JUNE 12, 2020  
 OPERATORS WELL NO. HEAVEN HILL 3N-9HM

STATE 47 - 051 - 02015 COUNTY PERMIT  
 STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS

