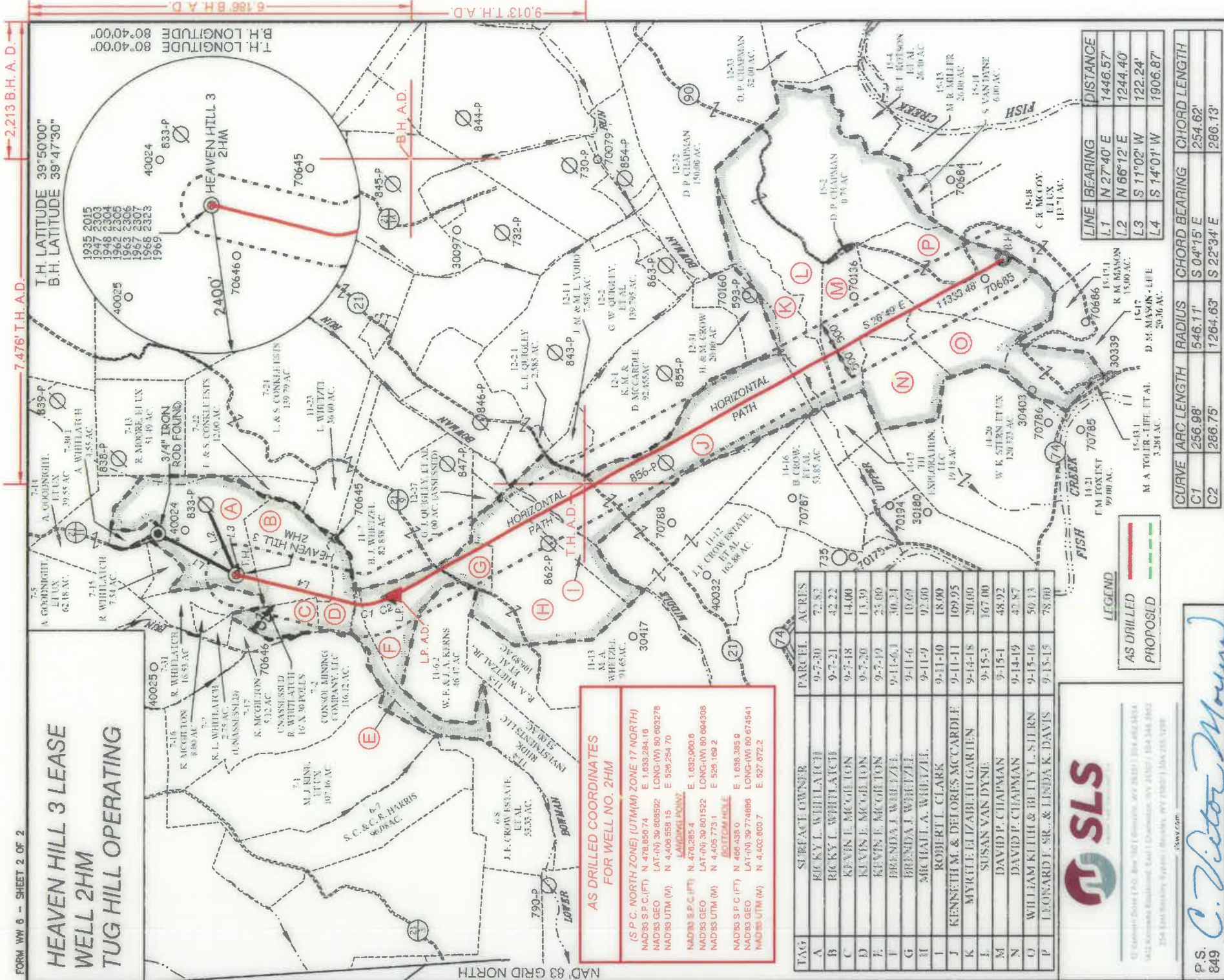


**HEAVEN HILL 3 LEASE  
WELL 2HM  
TUG HILL OPERATING**



9.013 T.H.A.D. 7.476 T.H.A.D. 2.213 B.H.A.D. 8.166 B.H.A.D.

T.H. LATITUDE 39°50'00"  
B.H. LATITUDE 39°47'30"  
T.H. LONGITUDE 80°40'00"  
B.H. LONGITUDE 80°40'00"

**AS DRILLED COORDINATES  
FOR WELL NO. 2HM**

(S.P.C. NORTH ZONE) (UTM) ZONE 17 (NORTH)  
 NAD83 S.P.C.(FT) N. 478,859.74 E. 1,633,284.10  
 NAD83 GEO. LAT.(-N) 39.800592 LONG.(W) 80.669276  
 NAD83 UTM (M) N. 4,406,558.15 E. 526,254.70

**LANDING POINT**  
 NAD83 S.P.C.(FT) N. 476,285.4 E. 1,632,000.0  
 NAD83 GEO. LAT.(-N) 39.801522 LONG.(W) 80.664308  
 NAD83 UTM (M) N. 4,405,773.1 E. 525,169.2

**BOTTOM HOLE**  
 NAD83 S.P.C.(FT) N. 466,438.0 E. 1,638,385.9  
 NAD83 GEO. LAT.(-N) 39.774698 LONG.(W) 80.674541  
 NAD83 UTM (M) N. 4,402,800.7 E. 527,874.2

TAG	SURFACE OWNER	PARCEL ACRES
A	KICKY L. WHITLAUGH	9-7-20 72.83
B	BECKY L. WHITLAUGH	9-7-21 42.22
C	KEVIN E. MCGIBION	9-7-18 14.00
D	KYVIN E. MCGIBION	9-7-20 13.39
E	KEVIN E. MCGIBION	9-7-19 23.00
F	BRENDAX J. WHITEHILL	9-11-6.1 30.21
G	BRENDAX J. WHITEHILL	9-11-6 10.69
H	MICHAEL A. WHITEHILL	9-11-9 92.00
I	ROBERT L. CLARK	9-11-10 18.00
J	KENNETH M. & DELORES MCCARDLE	9-11-11 109.95
K	MYRTLE ELIZABETH GARTEN	9-14-18 20.00
L	SUSAN VAN DYNE	9-15-3 167.00
M	DAVID P. CHAPMAN	9-15-1 48.92
N	DAVID P. CHAPMAN	9-14-19 47.87
O	WILLIAM KATH & BETTY L. STERN	9-15-16 50.13
P	LEONARD F. SR. & LINDA K. DAVIS	9-15-15 78.00



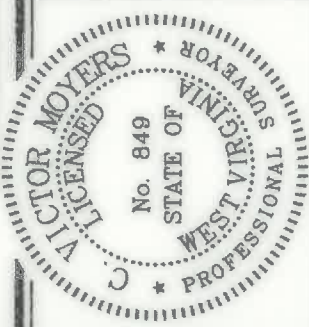
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 204 East Broadway, Fayetteville, AR 72701-1300

P.S. 849  
*C. Victor Moyers*

LINE	BEARING	DISTANCE
L.1	N 27°40' E	1446.57'
L.2	N 66°12' E	1244.40'
L.3	S 11°02' W	122.24'
L.4	S 14°01' W	1906.87'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	256.98'	546.11'	S 04°15' E	254.62'
C2	266.75'	1264.63'	S 22°34' E	260.13'

AS DRILLED  
 PROPOSED



(S.P.C. NORTH ZONE) (UTM) ZONE 17 (NORTH)  
 NAD83 S.P.C.(FT) N. 478,859.74 E. 1,633,284.10  
 NAD83 GEO. LAT.(-N) 39.800592 LONG.(W) 80.669276  
 NAD83 UTM (M) N. 4,406,558.15 E. 526,254.70

**LANDING POINT**  
 NAD83 S.P.C.(FT) N. 476,285.4 E. 1,632,027.6  
 NAD83 GEO. LAT.(-N) 39.801749 LONG.(W) 80.664429  
 NAD83 UTM (M) N. 4,405,798.3 E. 526,158.8

**BOTTOM HOLE**  
 NAD83 S.P.C.(FT) N. 466,439.2 E. 1,638,391.8  
 NAD83 GEO. LAT.(-N) 39.774698 LONG.(W) 80.674520  
 NAD83 UTM (M) N. 4,402,801.1 E. 527,874.0

SCALE 1" = 2000' FILE NO. 8654P2HMADR.dwg  
 DATE JANUARY 17, 2019  
 REVISED JUNE 12, 2020  
 OPERATORS WELL NO. HEAVEN HILL 3-2HM  
 API WELL NO. 47-051-01962  
 NO. STATE COUNTY PERMIT

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



**LEGEND**

- LEASE LINE
- SURFACE LINE
- WELL LATERAL
- OFFSET LINE
- THE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- TAX MAP-PARCEL
- LEASE # (SEE WW-6A1)
- SURFACE OWNER (SEE TABLE)

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

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

DIANNA STAMPER  
 CT CORPORATION SYSTEM

COUNTY NAME PERMIT



**HEAVEN HILL 3 LEASE  
WELL 2HM  
TUG HILL OPERATING**

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)  
 NAD'83 S.P.C.(FT) N. 478,856.74 E. 1,633,284.15  
 NAD'83 GEO. LAT-(N) 39.808592 LONG-(W) 80.693278  
 NAD'83 UTM (M) N. 4,406,558.15 E. 526,254.70  
**LANDING POINT**  
 NAD'83 S.P.C.(FT) N. 476,368.5 E. 1,632,927.6  
 NAD'83 GEO. LAT-(N) 39.801749 LONG-(W) 80.694429  
 NAD'83 UTM (M) N. 4,405,798.3 E. 526,158.8  
**BOTTOM HOLE**  
 NAD'83 S.P.C.(FT) N. 466,439.2 E. 1,638,391.8  
 NAD'83 GEO. LAT-(N) 39.774689 LONG-(W) 80.674520  
 NAD'83 UTM (M) N. 4,402,801.1 E. 527,874.0

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

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

B.H.A.D.

T.H.A.D.

**NOTES ON SURVEY**

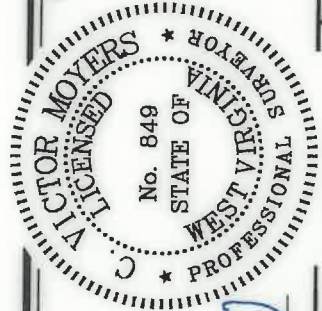
1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
2. WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'
3. AS-DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC.
4. PLAT UPDATED TO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



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634  
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952  
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5295  
 slsww.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. *C. Victor Moyers*  
 849



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

DATE JANUARY 17, 20 19  
 REVISED JUNE 12, 20 20  
 OPERATORS WELL NO. HEAVEN HILL 3-2HM

API WELL NO. **47 - 051 - 01962** PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8654P2HMADR.dwg  
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

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



WELL TYPE: OIL \_\_\_\_\_ GAS  INJECTION \_\_\_\_\_ WASTE LIQUID \_\_\_\_\_  
 LOCATION: ELEVATION \_\_\_\_\_ PROPOSED = 1,341.3' GROUND = 1,341.3' WASTE DISPOSAL \_\_\_\_\_  
 DISTRICT MEADE COUNTY MARSHALL "GAS" PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW

SURFACE OWNER RICKY L. WHITLATCH  
 ROYALTY OWNER RICKY L. WHITLATCH, ET AL - SEE WWV-6A1

COUNTY NAME  
 QUADRANGLE GLEN EASTON 7.5'  
 ACREAGE 72.82±  
 ACREAGE 72.82±  
 LEASE NO. SEE WWV-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: 19,063'  
 PERMIT

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