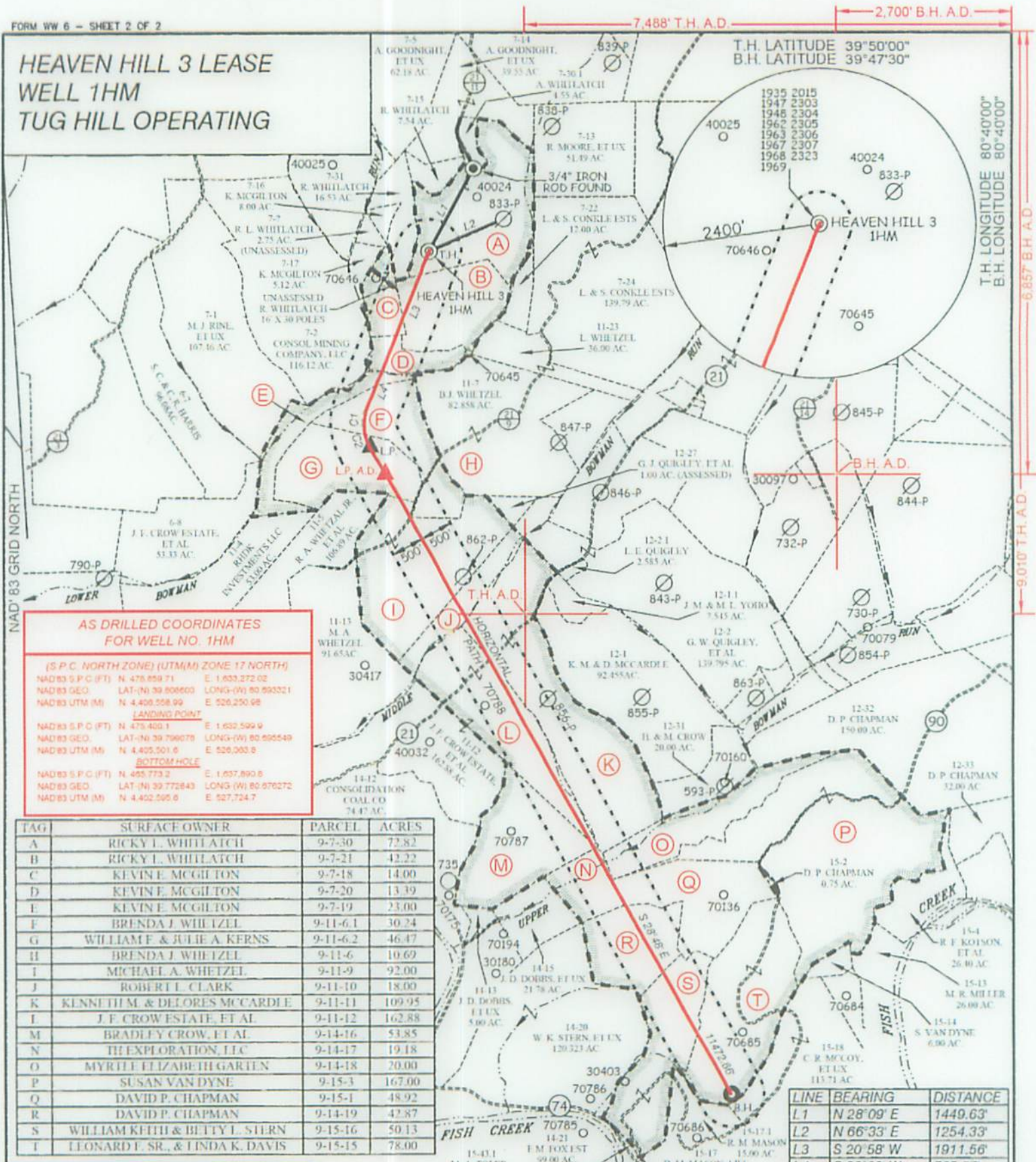


**HEAVEN HILL 3 LEASE  
WELL 1HM  
TUG HILL OPERATING**



**AS DRILLED COORDINATES  
FOR WELL NO. 1HM**

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

NAD83 S.P.C. (FT)	N. 478,859.71	E. 1,633,272.02
NAD83 GEO.	LAT. (N) 39.808603	LONG. (W) 80.893321
NAD83 UTM (M)	N. 4,406,558.99	E. 526,250.98
<b>LANDING POINT</b>		
NAD83 S.P.C. (FT)	N. 475,400.1	E. 1,632,599.9
NAD83 GEO.	LAT. (N) 39.799707	LONG. (W) 80.895549
NAD83 UTM (M)	N. 4,405,501.6	E. 526,003.0
<b>BOTTOM HOLE</b>		
NAD83 S.P.C. (FT)	N. 465,773.2	E. 1,637,890.6
NAD83 GEO.	LAT. (N) 39.772843	LONG. (W) 80.870272
NAD83 UTM (M)	N. 4,402,595.6	E. 527,724.7

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	BRENDA J. WHEITZEL	9-11-6	10.69
I	MICHAEL A. WHEITZEL	9-11-9	92.00
J	ROBERT L. CLARK	9-11-10	18.00
K	KENNETH M. & DELORES MCCARDIE	9-11-11	109.95
L	J.F. CROWESTATE, ET AL.	9-11-12	162.88
M	BRADLEY CROW, ET AL.	9-14-16	53.85
N	THE EXPLORATION, LLC	9-14-17	19.18
O	MYRIE ELIZABETH GARTEN	9-14-18	20.00
P	SUSAN VAN DYNE	9-15-3	167.00
Q	DAVID P. CHAPMAN	9-15-1	48.92
R	DAVID P. CHAPMAN	9-14-19	42.87
S	WILLIAM KEITH & BETTY L. STERN	9-15-16	50.13
T	LEONARD F. SR., & LINDA K. DAVIS	9-15-15	78.00

LINE	BEARING	DISTANCE
L1	N 28° 09' E	1449.63'
L2	N 66° 33' E	1254.33'
L3	S 20° 58' W	1911.56'
L4	S 23° 09' W	765.57'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	273.02'	489.36'	S 03° 35' W	269.49'
C2	293.63'	934.25'	S 19° 59' E	292.42'



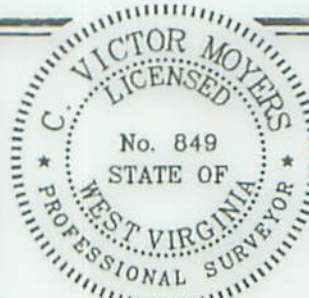
**LEGEND**

- AS DRILLED —
- PROPOSED - - -

P.S. 849 *C. Victor Moyers*

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

NAD83 S.P.C. (FT)	N. 478,859.71	E. 1,633,272.01
NAD83 GEO.	LAT. (N) 39.808600	LONG. (W) 80.893321
NAD83 UTM (M)	N. 4,406,558.99	E. 526,250.98
<b>LANDING POINT</b>		
NAD83 S.P.C. (FT)	N. 475,526.9	E. 1,632,370.3
NAD83 GEO.	LAT. (N) 39.800242	LONG. (W) 80.896387
NAD83 UTM (M)	N. 4,405,630.5	E. 525,991.7
<b>BOTTOM HOLE</b>		
NAD83 S.P.C. (FT)	N. 465,773.0	E. 1,637,896.7
NAD83 GEO.	LAT. (N) 39.772843	LONG. (W) 80.870251
NAD83 UTM (M)	N. 4,402,595.6	E. 527,726.5



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

**LEGEND**

- LEASE LINE - - -
- SURFACE LINE - - -
- WELL LATERAL - - -
- OFFSET LINE - - -
- TIE LINE - - -
- CREEK - - -
- ROAD - - -
- COUNTY ROUTE (C)
- PROPOSED WELL (A)
- EXISTING WELL (O)
- PERMITTED WELL (O)
- TAX MAP-PARCEL 00-00
- LEASE # (SEE WW-6A1) (A)
- SURFACE OWNER (SEE TABLE) (A)

SCALE 1" = 2000' FILE NO. 8654P1HMADR.dwg

DATE JANUARY 17, 20 19

REVISED JUNE 12, 20 20

OPERATORS WELL NO. HEAVEN HILL 3-1HM

API WELL NO. 47 — 051 — 01935

NO. STATE COUNTY PERMIT

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



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

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

COUNTY NAME  
PERMIT

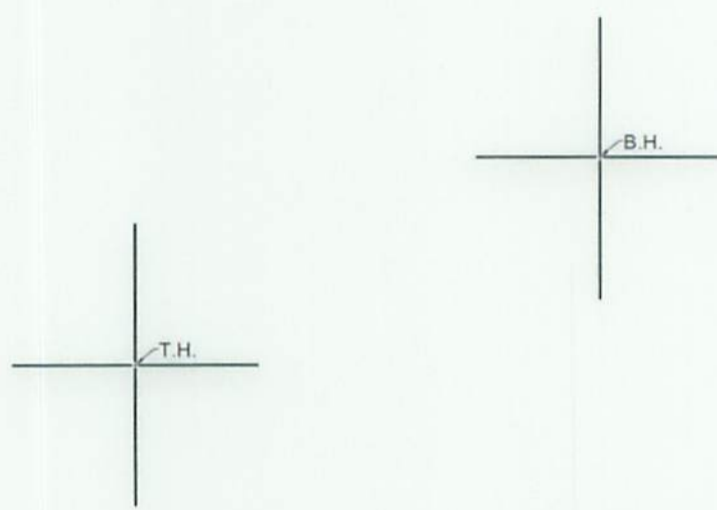


HEAVEN HILL 3 LEASE  
WELL 1HM  
TUG HILL OPERATING

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

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)		
NAD'83 S.P.C.(FT)	N. 478,859.71	E. 1,633,272.01
NAD'83 GEO.	LAT-(N) 39.808600	LONG-(W) 80.693321
NAD'83 UTM (M)	N. 4,406,558.99	E. 526,250.98
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 475,826.9	E. 1,632,370.3
NAD'83 GEO.	LAT-(N) 39.800242	LONG-(W) 80.696387
NAD'83 UTM (M)	N. 4,405,630.5	E. 525,991.7
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 465,773.0	E. 1,637,896.7
NAD'83 GEO.	LAT-(N) 39.772843	LONG-(W) 80.676251
NAD'83 UTM (M)	N. 4,402,595.6	E. 527,726.5

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



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.



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*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE JANUARY 17, 20 19  
REVISED \_\_\_\_\_  
OPERATORS WELL NO. HEAVEN HILL 3-1HM  
API WELL NO. 47-051-01935  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8654P1HMAD.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  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION GROUND = 1,339.40' 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±

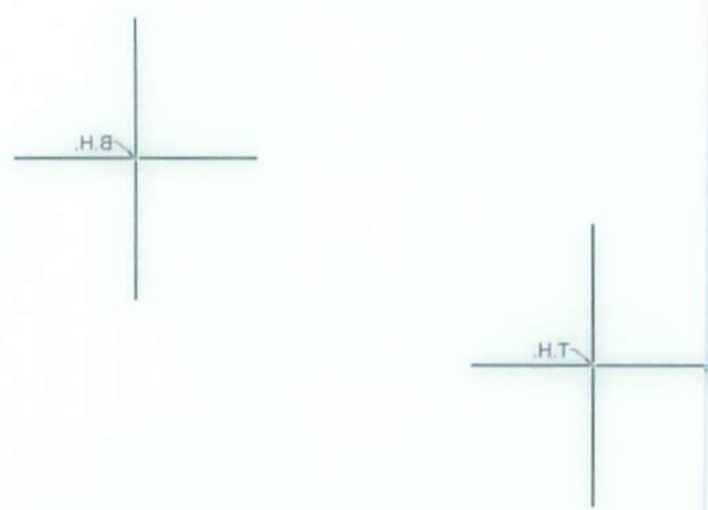
PROPOSED WORK:  
DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION   
PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER   
PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION MARCELLUS  
ESTIMATED DEPTH TVD: 6,876' / TMD: 19,500'

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

COUNTY NAME PERMIT

# HEAVEN HILL 3 LEASE WELL 1HM TUG HILL OPERATING

NAD83 UTM (M)		N 4405.505 8	E 527.258 5
NAD83 GEO.		LAT-(N) 39.772843	LONG-(W) 80.825251
NAD83 S.P.C. (FT)		N 482.773 0	E 1.837.898 7
NAD83 UTM (M)		N 4405.530 5	E 528.991 7
NAD83 GEO.		LAT-(N) 39.800545	LONG-(W) 80.866387
NAD83 S.P.C. (FT)		N 472.828 9	E 1.832.370 3
NAD83 UTM (M)		N 4405.528 99	E 528.250 98
NAD83 GEO.		LAT-(N) 39.808800	LONG-(W) 80.863321
NAD83 S.P.C. (FT)		N 478.859 71	E 1.833.275 01
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)			



### 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. PLAN UPDATED TO SHOW AS-DRILLED PATH.



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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.

*C. Victor Moyers*  
P.S. 848



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE JANUARY 17, 20 18  
 OPERATORS WELL NO. HEAVEN HILL 3-1HM  
 REVISED \_\_\_\_\_  
 STATE NO. 47 COUNTY 021 PERMIT 01935

OFFICE OF OIL AND GAS DIVISION OF ENVIRONMENTAL PROTECTION STATE OF WEST VIRGINIA  
 CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORN NETWORK)  
 HORIZONTAL & VERTICAL SCALE 1" = 2000'  
 FILE NO. 8854P1HMAD.dwg  
 MINIMUM DEGREE OF ACCURACY 1 12500

WELL TYPE: OIL  GAS  LIQUID WASTE DISPOSAL  GAS PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION PROPOSED = 1,328.35' WATERSHED LOWER BOWMAN RUN OF FISH CREEK (HUC 10)  
 DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON T.S.  
 SURFACE OWNER RICKY L. WHITLATCH  
 ROYALTY OWNER RICKY L. WHITLATCH, ET AL - SEE WW-6A1  
 LEASE NO. 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: 6876' TMD: 19,500'

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

H.T. 788.9  
 H.B. 788.9  
 H.T. 010.8  
 H.B. 010.8  
 H.T. 010.8  
 H.B. 010.8  
 H.T. 010.8  
 H.B. 010.8