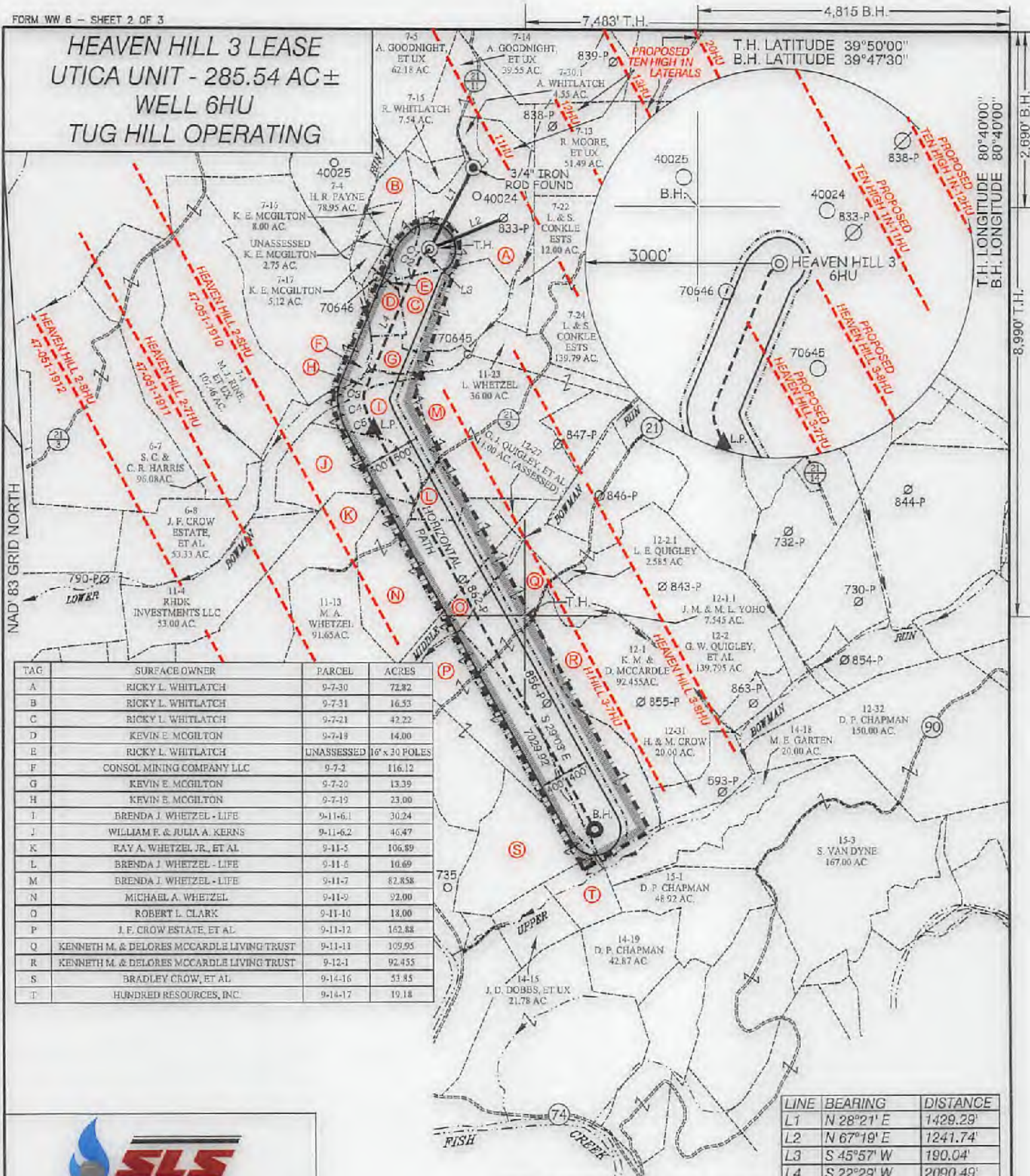


**HEAVEN HILL 3 LEASE  
UTICA UNIT - 285.54 AC±  
WELL 6HU  
TUG HILL OPERATING**



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	KEVIN E. MCGILTON	9-7-19	14.00
E	RICKY L. WHITLATCH	UNASSESSED 16' x 30' POLES	
F	CONSOL MINING COMPANY LLC	9-7-2	116.12
G	KEVIN E. MCGILTON	9-7-20	13.39
H	KEVIN E. MCGILTON	9-7-19	23.00
I	BRENDA J. WHETZEL - LIFE	9-11-6.1	30.24
J	WILLIAM F. & JULIA A. KERNS	9-11-6.2	46.47
K	RAY A. WHETZEL JR., ET AL	9-11-5	106.89
L	BRENDA J. WHETZEL - LIFE	9-11-6	10.69
M	BRENDA J. WHETZEL - LIFE	9-11-7	82.858
N	MICHAEL A. WHETZEL	9-11-9	92.00
O	ROBERT L. CLARK	9-11-10	18.00
P	J. F. CROW ESTATE, ET AL	9-11-12	162.88
Q	KENNETH M. & DELORES MCCARDLE LIVING TRUST	9-11-11	109.95
R	KENNETH M. & DELORES MCCARDLE LIVING TRUST	9-12-1	92.455
S	BRADLEY CROW, ET AL	9-14-16	53.85
T	HUNDRED RESOURCES, INC.	9-14-17	19.18

LINE	BEARING	DISTANCE
L1	N 28°21' E	1429.29'
L2	N 67°19' E	1241.74'
L3	S 45°57' W	190.04'
L4	S 22°29' W	2090.49'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	23.10'	112.75'	S 33°36' W	23.06'
C2	158.12'	1854.90'	S 24°28' W	158.07'
C3	71.33'	208.06'	S 07°43' W	70.98'
C4	239.26'	795.37'	S 13°09' E	238.36'
C5	261.93'	1764.93'	S 24°53' E	261.69'

**SLS**  
Land & Energy Development  
Solutions from the ground up.  
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www.slsurvey.com

P.S. 677  
*Gregory A. Smith*

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

NAD83 S.P.C.(FT)	N. 478,980.11	E. 1,633,277.01
NAD83 GEO.	LAT-(N) 39.809656	LONG-(W) 80.693304
NAD83 UTM (M)	N. 4,406,565.23	E. 526,252.40

**LANDING POINT**

NAD83 S.P.C.(FT)	N. 476,113.5	E. 1,632,417.3
NAD83 GEO.	LAT-(N) 39.601030	LONG-(W) 80.696233
NAD83 UTM (M)	N. 4,405,718.0	E. 528,004.6

**BOTTOM HOLE**

NAD83 S.P.C.(FT)	N. 469,967.5	E. 1,635,830.0
NAD83 GEO.	LAT-(N) 39.784283	LONG-(W) 80.6883799
NAD83 UTM (M)	N. 4,403,863.0	E. 527,075.6



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

**LEGEND**

- UNIT BOUNDARY
- LEASED TRACTS INSIDE
- UNIT BOUNDARY
- SURFACE LINE
- PROPOSED UTICA
- WELL LATERAL
- 400' OFFSET LINE
- 500' OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE PGS. 1 & 3)

SCALE 1" = 2000' FILE NO. 8654P6HUR3.dwg  
DATE AUGUST 25, 20 17  
REVISED 10-9-2017, 1-25-2018 & 1-29-2018  
OPERATORS WELL NO. HEAVEN HILL 3-6HU  
API WELL NO. 47-051-01968 H6A  
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 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

COUNTY NAME PERMIT

03/02/2018

**HEAVEN HILL 3 LEASE  
UTICA UNIT - 285.54 AC±  
WELL 6HU  
TUG HILL OPERATING**

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

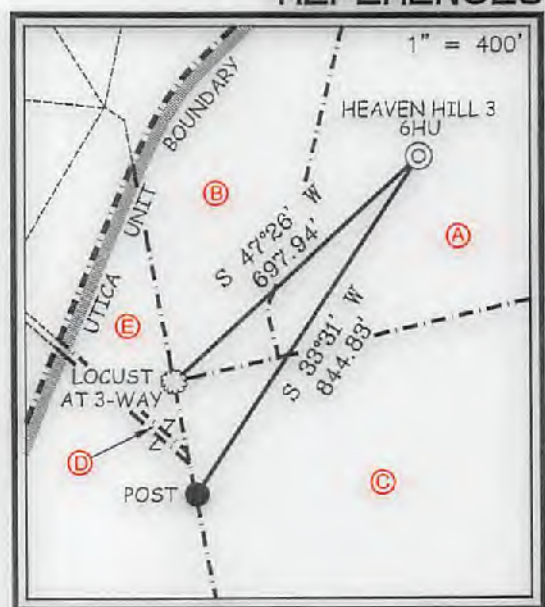
T.H. LONGITUDE 80°40'00"  
B.H. LONGITUDE 80°40'00"  
2,690' T.H.

No.	Lease Name or No.	Tag	Partial	Oil & Gas Royalty Owners	Deed Book/Page
1	10*15557	A	9-7-20	RICKY L. WHITLATCH ET AL	760 226
2	10*15557	B	9-7-21	RICKY L. WHITLATCH ET AL	760 226
3	10*15557	C	9-7-21	RICKY L. WHITLATCH ET AL	760 226
4	10*16021	D	9-7-18	BRENDA HINERMAN WILLIAMSON AND BRIAN K WILLIAMSON	325 468
5	10*16021	D	9-7-18	BRENDA HINERMAN WILLIAMSON AND BRIAN K WILLIAMSON	325 468
6	10*16412	D	9-7-18	ELIZABETH ANN BLAZER AND PAUL R BLAZER	325 468
7	10*16412	D	9-7-18	ELIZABETH ANN BLAZER AND PAUL R BLAZER	325 468
8	10*15720	D	9-7-18	GARY O HINERMAN AND JUDY ANN HINERMAN	325 468
9	10*15720	D	9-7-18	GARY O HINERMAN AND JUDY ANN HINERMAN	325 468
10	10*15720	D	9-7-18	KAREN L GREATHOUSE AND FLOYD GREATHOUSE	325 468
11	10*15608	D	9-7-18	ROBERT A EDGE AND SHERRIE N EDGE	325 468
12	10*16413	D	9-7-18	RONALD H EDGE JR	325 468
13	10*16018	D	9-7-18	ROSEMARY PARKINS AND STEPHEN PARKINS	325 468
14	10*16018	D	9-7-18	ROSEMARY PARKINS AND STEPHEN PARKINS	325 468
15	10*16020	D	9-7-18	SHARON HINERMAN MAY & DANIEL G MAY	325 468
16	10*16020	D	9-7-18	SHARON HINERMAN MAY & DANIEL G MAY	325 468
17	10*16471	F	9-7-18	TINA L EDGE MONTI AND THOMAS MONTI	325 468
18	10*16471	F	9-7-18	TINA L EDGE MONTI AND THOMAS MONTI	325 468
19	10*16471	F	9-7-18	KEVIN E MCGILTON ET LK	325 468
20	10*16471	F	9-7-18	KEVIN E MCGILTON ET LK	325 468
21	10*16471	F	9-7-18	KEVIN E MCGILTON ET LK	325 468
22	10*16471	F	9-7-18	KEVIN E MCGILTON ET LK	325 468
23	10*16471	F	9-7-18	KEVIN E MCGILTON ET LK	325 468
24	10*16471	F	9-7-18	KEVIN E MCGILTON ET LK	325 468
25	10*16471	F	9-7-18	KEVIN E MCGILTON ET LK	325 468
26	10*16471	F	9-7-18	KEVIN E MCGILTON ET LK	325 468
27	10*16471	F	9-7-18	KEVIN E MCGILTON ET LK	325 468
28	10*16471	F	9-7-18	KEVIN E MCGILTON ET LK	325 468
29	10*47051.256.1	I	9-11-5.1	BRENDA J WHITZEL	881 148
30	10*47051.256.3	I	9-11-5.1	BRENDA J WHITZEL	881 148
31	10*47051.256.2	I	9-11-5.1	CAROL JEAN ANDERSON	881 148
32	10*47051.256.4	I	9-11-5.1	GLEN A BONAR	881 148
33	10*47051.256.5	I	9-11-5.1	JERRY W ZIEN AND KATHLEEN EZIEN	881 148
34	10*15660	J	9-11-5.2	EMMA ANDERSON	861 304
35	10*15670	J	9-11-5.2	GARY M BONAR AND ELLIN L BONAR	861 304
36	10*15670	J	9-11-5.2	JUDALENE K COLLINS	861 304
37	10*15670	J	9-11-5.2	NADIM HURP	861 304
38	10*47051.256.3	J	9-11-5.2	BRENDA J WHITZEL	881 148
39	10*47051.256.2	J	9-11-5.2	CAROL JEAN ANDERSON	881 148
40	10*47051.256.4	J	9-11-5.2	GLEN A BONAR	881 148
41	10*47051.256.5	J	9-11-5.2	JERRY W ZIEN AND KATHLEEN EZIEN	881 148
42	10*15660	J	9-11-5.2	EMMA ANDERSON	861 304
43	10*15670	J	9-11-5.2	GARY M BONAR AND ELLIN L BONAR	861 304
44	10*15670	J	9-11-5.2	JUDALENE K COLLINS	861 304
45	10*15670	J	9-11-5.2	NADIM HURP	861 304
46	10*15670	J	9-11-5.2	EMMA ANDERSON	861 304
47	10*15670	J	9-11-5.2	GARY M BONAR AND ELLIN L BONAR	861 304
48	10*15670	J	9-11-5.2	JUDALENE K COLLINS	861 304
49	10*15670	J	9-11-5.2	NADIM HURP	861 304
50	10*15670	J	9-11-5.2	EMMA ANDERSON	861 304
51	10*15670	J	9-11-5.2	GARY M BONAR AND ELLIN L BONAR	861 304
52	10*15670	J	9-11-5.2	JUDALENE K COLLINS	861 304
53	10*15670	J	9-11-5.2	NADIM HURP	861 304
54	10*47051.108.5	K	9-11-5	VIKIE MASON	585 219
55	10*47051.108.4	K	9-11-5	SHARON L WHEZEL	585 219
56	10*47051.108.3	K	9-11-5	SARBYA SOUTH	585 219
57	10*47051.108.2	K	9-11-5	ROBERT L WHEZEL	585 219
58	10*47051.108.1	K	9-11-5	RAY A WHEZEL JR	585 219
59	10*47051.108.5	K	9-11-5	RAY A WHEZEL JR	585 219
60	10*47051.108.4	K	9-11-5	RAY A WHEZEL JR	585 219
61	10*47051.108.3	K	9-11-5	RAY A WHEZEL JR	585 219
62	10*47051.108.2	K	9-11-5	RAY A WHEZEL JR	585 219
63	10*47051.108.1	K	9-11-5	RAY A WHEZEL JR	585 219
64	10*47051.108.5	K	9-11-5	RAY A WHEZEL JR	585 219
65	10*47051.108.4	K	9-11-5	RAY A WHEZEL JR	585 219
66	10*47051.108.3	K	9-11-5	RAY A WHEZEL JR	585 219
67	10*47051.108.2	K	9-11-5	RAY A WHEZEL JR	585 219
68	10*47051.108.1	K	9-11-5	RAY A WHEZEL JR	585 219
69	10*47051.108.5	K	9-11-5	RAY A WHEZEL JR	585 219
70	10*47051.108.4	K	9-11-5	RAY A WHEZEL JR	585 219
71	10*47051.108.3	K	9-11-5	RAY A WHEZEL JR	585 219
72	10*47051.108.2	K	9-11-5	RAY A WHEZEL JR	585 219
73	10*47051.108.1	K	9-11-5	RAY A WHEZEL JR	585 219
74	10*47051.108.5	K	9-11-5	RAY A WHEZEL JR	585 219
75	10*47051.108.4	K	9-11-5	RAY A WHEZEL JR	585 219
76	10*47051.108.3	K	9-11-5	RAY A WHEZEL JR	585 219
77	10*47051.108.2	K	9-11-5	RAY A WHEZEL JR	585 219
78	10*47051.108.1	K	9-11-5	RAY A WHEZEL JR	585 219
79	10*47051.108.5	K	9-11-5	RAY A WHEZEL JR	585 219
80	10*47051.108.4	K	9-11-5	RAY A WHEZEL JR	585 219

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)  
 NAD'83 S.P.C.(FT) N. 478,880.11 E. 1,633,277.01  
 NAD'83 GEO. LAT-(N) 39.808656 LONG-(W) 80.693304  
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 NAD'83 GEO. LAT-(N) 39.784283 LONG-(W) 80.683799  
 NAD'83 UTM (M) N. 4,403,863.0 E. 527,075.6

T.H.

**REFERENCES**



**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'

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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. Gregory A. Smith  
677

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE AUGUST 25, 20 17  
 REVISED 10-9-2017, 1-25-2018 & 1-29-2018  
 OPERATORS WELL NO. HEAVEN HILL 3-6HU  
 API 47 - 051 - 01968  
 WELL NO. 47 - 051 - 01968  
 STATE WEST VIRGINIA COUNTY BARBOUR PERMIT MLA

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8654P6HUR3.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 DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: GROUND = 1,338.50' 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 PAGES 1 & 3 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 POINT PLEASANT  
 ESTIMATED DEPTH TVD: 11,829' / TMD: 19,376'

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 BARBOUR PERMIT MLA

03/02/2018