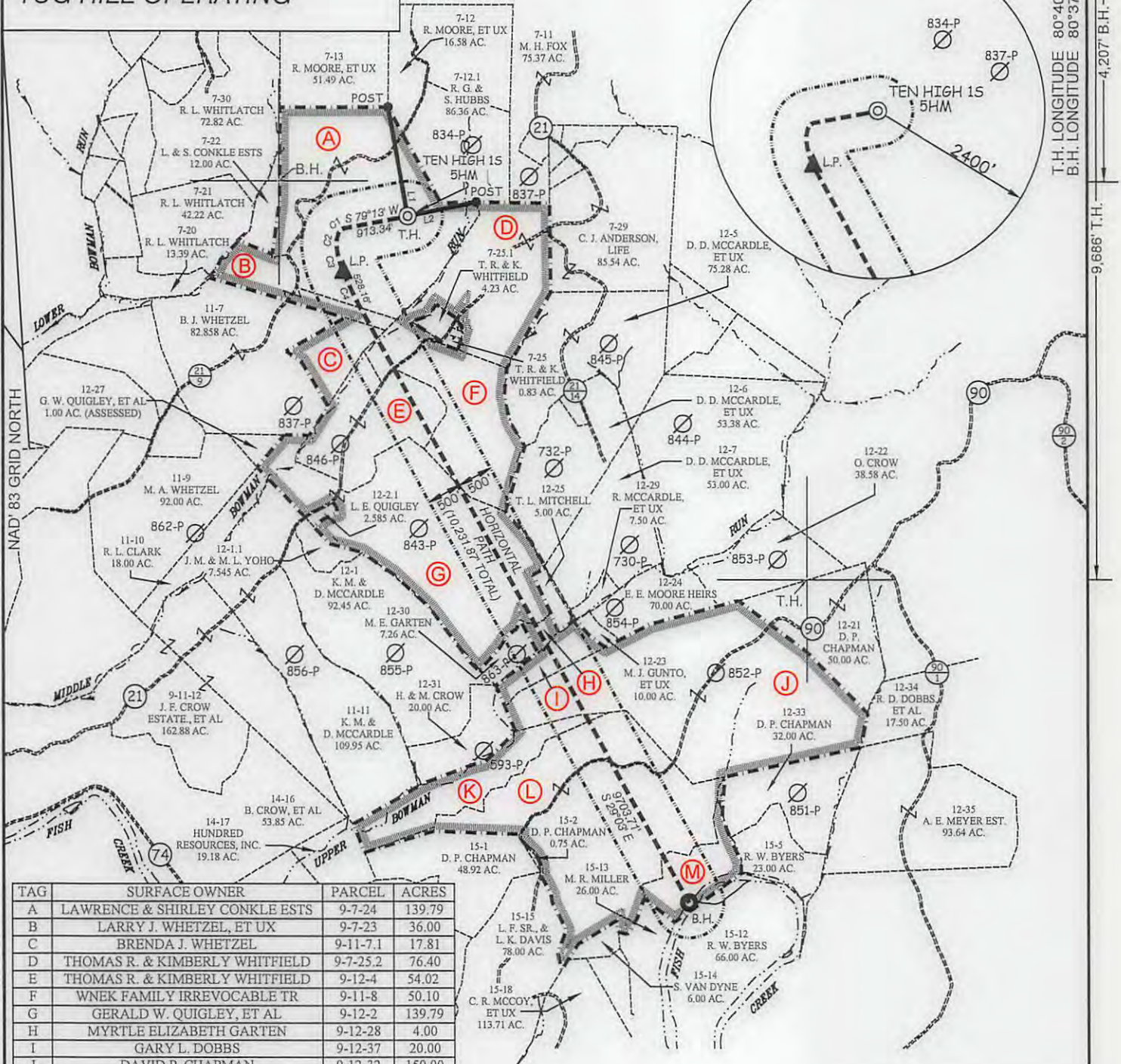


TEN HIGH 1S LEASE
WELL 5HM
TUG HILL OPERATING

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"
4,207' B.H.
6,686' T.H.



TAG	SURFACE OWNER	PARCEL	ACRES
A	LAWRENCE & SHIRLEY CONKLE ESTS	9-7-24	139.79
B	LARRY J. WHETZEL, ET UX	9-7-23	36.00
C	BRENDA J. WHETZEL	9-11-7.1	17.81
D	THOMAS R. & KIMBERLY WHITFIELD	9-7-25.2	76.40
E	THOMAS R. & KIMBERLY WHITFIELD	9-12-4	54.02
F	WNEK FAMILY IRREVOCABLE TR	9-11-8	50.10
G	GERALD W. QUIGLEY, ET AL	9-12-2	139.79
H	MYRTLE ELIZABETH GARTEN	9-12-28	4.00
I	GARY L. DOBBS	9-12-37	20.00
J	DAVID P. CHAPMAN	9-12-32	150.00
K	MYRTLE ELIZABETH GARTEN	9-14-18	20.00
L	SUSAN VAN DYNE	9-15-3	167.00
M	ROBERT FRANK KOTSON, ET AL	9-15-4	26.40

LINE	BEARING	DISTANCE
L1	N 10°14' W	1594.57'
L2	N 78°18' E	1002.00'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	138.44'	123.31'	S 49°56' W	131.28'
C2	206.39'	452.54'	S 05°25' W	204.61'
C3	349.57'	1124.43'	S 15°47' E	348.16'
C4	528.16'	4965.71'	S 25°47' E	527.92'

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(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'83 S.P.C.(FT) N. 478,138.37 E. 1,636,728.79
 NAD'83 GEO. LAT-(N) 39.806745 LONG-(W) 80.680984
 NAD'83 UTM (M) N. 4,406,356.83 E. 527,907.78
LANDING POINT
 NAD'83 S.P.C.(FT) N. 477,344.3 E. 1,635,806.5
 NAD'83 GEO. LAT-(N) 39.804532 LONG-(W) 80.684229
 NAD'83 UTM (M) N. 4,406,110.2 E. 527,030.8
BOTTOM HOLE
 NAD'83 S.P.C.(FT) N. 468,985.6 E. 1,640,746.8
 NAD'83 GEO. LAT-(N) 39.780117 LONG-(W) 80.686232
 NAD'83 UTM (M) N. 4,403,406.0 E. 528,581.6



(+) 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 PAGES 1,3,4,&5) A

SCALE 1" = 2000' FILE NO. 8655P5HM.dwg
 DATE AUGUST 10, 2017
 REVISED _____, 20____
 OPERATORS WELL NO. TEN HIGH 1S-5HM
 API WELL NO. 47-051-01964
 STATE COUNTY PERMIT

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

10/27/2017

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

TEN HIGH 1S LEASE
WELL 5HM
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. 478,138.37 E. 1,636,728.79
NAD'83 GEO. LAT-(N) 39.806745 LONG-(W) 80.680984
NAD'83 UTM (M) N. 4,406,356.83 E. 527,307.78

LANDING POINT
NAD'83 S.P.C.(FT) N. 477,344.3 E. 1,635,806.5
NAD'83 GEO. LAT-(N) 39.804532 LONG-(W) 80.684229
NAD'83 UTM (M) N. 4,406,110.2 E. 527,030.8

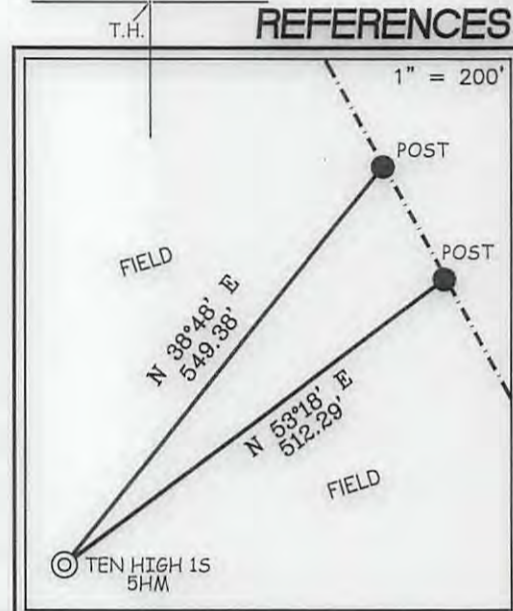
BOTTOM HOLE
NAD'83 S.P.C.(FT) N. 468,385.6 E. 1,640,746.8
NAD'83 GEO. LAT-(N) 39.780117 LONG-(W) 80.686232
NAD'83 UTM (M) N. 4,403,406.0 E. 528,581.6

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"
4,207' B.H.
9,686' T.H.

No.	Lease Name or No.	Tag	Acres	Oil & Gas Royalty Owners	Deed Book / Page
1	10*15652	A	9-7-24	LARRY LEE CONKLE	883 354
2	10*15663	A	9-7-24	ROY A CONKLE SR	863 311
3	10*15664	A	9-7-24	THERESA ANNE HUDGES	863 343
4	10*15666	A	9-7-24	BRENDA J WHITZEL	863 635
5	10*16049	A	9-7-24	DANNY SHAWN KERNS AND AMY LYNN KERNS	905 518
6	10*16138	A	9-7-24	LARRY W KUHN AND VICKIE B KUHN, HUSBAND AND WIFE	905 522
7	10*16139	A	9-7-24	HUBERT DEAN KUHN AND ANDREA KUHN	905 524
8	10*16140	A	9-7-24	ANDY PAUL & JACKIE KUHN	905 526
9	10*16141	A	9-7-24	HOWARD J KUHN AND MARY L KUHN	905 528
10	10*16001	A	9-7-24	LLOYD DOYLE MOORE AND Gwendolyn K Moore	907 382
11	10*16053	A	9-7-24	MARK EDWARD AND KARRIE A GOODMAN	909 81
12	10*16085	A	9-7-24	DALE BRIAN GOODMAN	909 506
13	10*16030	A	9-7-24	ROBERTA ANN AND DAVID S GIBB	919 237
14	10*17365	A	9-7-24	MYSTI JOANNE GOODMAN	927 468
15	10*17370	A	9-7-24	KELLY JUNE GOODMAN	927 470
16	10*18356	A	9-7-24	JEFFREY STEPHEN GOODMAN	929 1
17	10*42051.285.10	A	9-7-24	DEBRA J PALOMO	905 470
18	10*42051.285.11	A	9-7-24	REGINA D FIGUEROA AND DAVID FIGUEROA	905 435
19	10*42051.285.12	A	9-7-24	EARL D WELLMAN	905 432
20	10*42051.285.13	A	9-7-24	THE DOLLY F WOOD REVOCABLE TRUST BY NICHOLAS CHARLES WOOD AS TRUSTEE	904 641
21	10*42051.285.3	A	9-7-24	HAZEL ARIZONA MOORE REYNOLDS	904 632
22	10*42051.285.4	A	9-7-24	LLOYD D MOORE	904 458
23	10*42051.285.5	A	9-7-24	DALE R MOORE	904 635
24	10*42051.285.6	A	9-7-24	MARY BURKHART	904 638
25	10*42051.285.7	A	9-7-24	JEANNE V MELCHIONI	904 462
26	10*42051.285.8	A	9-7-24	JAMES E HEMELICK JR AND KAREN HEMELICK	904 465
27	10*15146	B	9-7-23	BRUCE D SCHURR	921 478
28	10*16021	B	9-7-23	TOMMY BONAR AND TANYA S BONAR	925 325
29	10*16115	B	9-7-23	EARL W HARRIS	925 329
30	10*16047	B	9-7-23	CAROL RIGGLE PARSELY AND JAMES DENNIS PARSELY	925 327
31	10*17415	B	9-7-23	DILLON PITTSBERGER	919 241
32	10*17506	B	9-7-23	CHAKIA F HARRIS AND JAMES M HARRIS	919 239
33	10*17607	B	9-7-23	DIZBRY METCALF	919 235
34	10*42051.286.1	B	9-7-23	BRENDA J WHITZEL	881 145
35	10*42051.286.10	B	9-7-23	GRACE LAURA BONAR	905 35
36	10*42051.286.11	B	9-7-23	JOHN L MASON	905 37
37	10*42051.286.12	B	9-7-23	STEVEN A BOHRER	905 39
38	10*42051.286.13	B	9-7-23	WILLIAM W CRAIG AND GLENDA L CRAIG	905 41
39	10*42051.286.14	B	9-7-23	HUGH R BUZZARD	905 43
40	10*42051.286.15	B	9-7-23	CHARLOTTE J BONAR YOHIO	904 455
41	10*42051.286.16	B	9-7-23	CHARLOTTE B HUMMEL	905 45
42	10*42051.286.17	B	9-7-23	MAXINE G JOHNSON	904 457
43	10*42051.286.18	B	9-7-23	JOHN WILLIAM BONAR AND SHIRLEY BONAR	913 522
44	10*42051.286.19	B	9-7-23	MICHAEL DAVID PILES AND CYNTHIA A PILES	907 207
45	10*42051.286.20	B	9-7-23	JEFFREY THOMAS PILES AND TERESA A PILES	907 209
46	10*42051.286.21	B	9-7-23	JACK L MASON AND JEAN M MASON	904 626
47	10*42051.286.22	B	9-7-23	BEVERLY J HOPSON	913 581
48	10*42051.286.23	B	9-7-23	ROBERT J BONAR	913 556
49	10*42051.286.24	B	9-7-23	CATHERINE BONAR PETTIT BILLIE	904 628
50	10*42051.286.7	B	9-7-23	MARILYN SUE BUMER	905 29

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.
677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE AUGUST 10, 20 17
REVISED _____, 20 _____
OPERATORS WELL NO. TEN HIGH 1S-5HM
API WELL NO. 47 - 051 - 01964
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8655P5HM.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 X INJECTION _____ WASTE DISPOSAL _____ IF "GAS" PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X

LOCATION: GROUND = 1,321.20' ELEVATION PROPOSED = 1,310.06' WATERSHED MIDDLE BOWMAN RUN OF FISH CREEK (HUC 10)
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER LAWRENCE & SHIRLEY CONKLE ESTS ACREAGE 139.79±
ROYALTY OWNER ANDY PAUL & JACKIE KUHN, ET AL - SEE ABOVE AND SHEETS 3-5 ACREAGE 139.79±

PROPOSED WORK: DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE X 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: 6,865' / TMD: 17,512'

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

10/27/2017

COUNTY NAME PERMIT