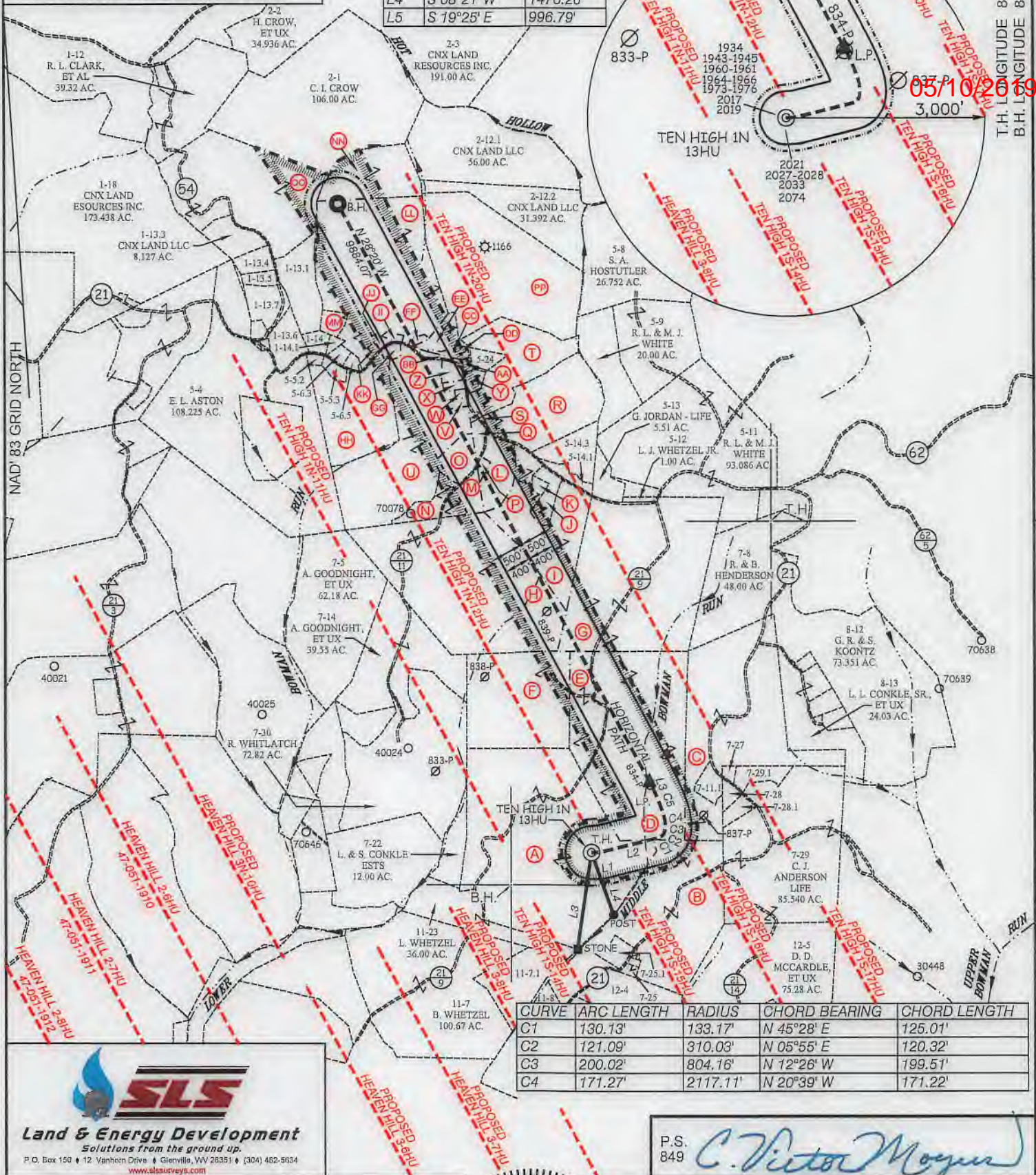


**TEN HIGH 1N LEASE  
UTICA UNIT - 341.75 AC±  
WELL 13HU  
TUG HILL OPERATING**

T.H. LATITUDE 39°50'00"  
B.H. LATITUDE 39°52'30"

LINE	BEARING	DISTANCE
L1	N 85°57' E	146.78'
L2	N 76°03' E	889.57'
L3	N 26°59' W	157.47'
L4	S 08°21' W	1476.26'
L5	S 19°25' E	996.79'



CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	130.13'	133.17'	N 45°28' E	125.01'
C2	121.09'	310.03'	N 05°55' E	120.32'
C3	200.02'	804.16'	N 12°26' W	199.51'
C4	171.27'	2117.11'	N 20°39' W	171.22'

**SLS**  
Land & Energy Development  
Solutions from the ground up.  
P.O. Box 150 • 12 Vanhorn Drive • Glenville, WV 26031 • (304) 462-5034  
www.slsurveys.com

P.S. 849 *C. Victor Moyers*

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

NAD'83 S.P.C.(FT)	N. 478,146.86	E. 1,636,782.34
NAD'83 GEO.	LAT-(N) 39.806770	LONG-(W) 80.680793
NAD'83 UTM (M)	N. 4,406,359.69	E. 527,324.06

**LANDING POINT**

NAD'83 S.P.C.(FT)	N. 479,204.8	E. 1,637,660.1
NAD'83 GEO.	LAT-(N) 39.809706	LONG-(W) 80.677719
NAD'83 UTM (M)	N. 4,406,686.5	E. 527,586.1,660.1

**BOTTOM HOLE**

NAD'83 S.P.C.(FT)	N. 487,904.7	E. 1,632,969.0
NAD'83 GEO.	LAT-(N) 39.833418	LONG-(W) 80.694828
NAD'83 UTM (M)	N. 4,409,313.1	E. 526,112.6



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

**LEGEND**

UNIT BOUNDARY	
LEASED TRACTS INSIDE UNIT BOUNDARY	
SURFACE LINE	
DEED WELL LATERAL WITHIN 3000'	
WELL LATERAL	
400' OFFSET LINE	
500' OFFSET LINE	
TIE LINE	
CREEK	
ROAD	
COUNTY ROUTE	
PROPOSED WELL	
EXISTING WELL	
PERMITTED WELL	
SURFACE OWNER (SEE TABLE-SHEET 1)	
LEASE # (SEE ADDITIONAL SHEETS)	

SCALE 1" = 2000' FILE NO. 8655P13HUR6.dwg  
TEN HIGH 1N 13HU Rev8  
DATE AUGUST 14, 2017  
REVISED SEPTEMBER 26, 2018  
OPERATORS WELL NO. TEN HIGH 1N-13HU  
API WELL NO. 47-051-01965 Mod  
NO. STATE COUNTY PERMIT

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

WELL OPERATOR TUG HILL OPERATING, LLC	DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500	ADDRESS CT CORPORATION SYSTEM
FORT WORTH, TX 76107	5400 D BIG TYLER ROAD
	CHARLESTON, WV 25313

COUNTY NAME PERMIT

**TEN HIGH 1N LEASE  
UTICA UNIT - 341.75 AC±  
WELL 13HU  
TUG HILL OPERATING**



05/10/2019

No.	Lease Name or No.	Tag	Parcel	Oil & Gas Royalty Owners	Deed Book/Page
1	10*15662	A	9-7-24	LARRY LEE CONKLE	863 354
2	10*15663	A	9-7-24	ROY A CONKLE SR	863 311
3	10*15664	A	9-7-24	THERESA ANNE HUGHES	863 343
4	10*15666	A	9-7-24	BRENDA J WHETZEL	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 KUHN & JACKIE KUHN	905 526
9	10*16141	A	9-7-24	HOWARD L KUHN AND MARY L KUHN	905 528
10	10*16820	A	9-7-24	ROBERTA ANN AND DAVID S GIBB	919 237
11	10*17365	A	9-7-24	MYSTI JOANNE GOODMAN	927 468
12	10*17370	A	9-7-24	KELLY JUNE GOODMAN	927 470
13	10*18256	A	9-7-24	JEFFREY STEPHEN GOODMAN	929 1
14	10*47051.295.10	A	9-7-24	DEENA J PALOMO	905 470
15	10*47051.295.11	A	9-7-24	REGINA D FIGUEROA AND DAVID FIGUEROA	905 435
16	10*47051.295.12	A	9-7-24	EARL D WELLMAN	905 432
17	10*47051.295.13	A	9-7-24	THE DOLLYE F WOOD REVOCABLE TRUST BY NICHOLAS CHARLES WOOD AS TRUSTEE	904 641
18	10*47051.295.3	A	9-7-24	HAZEL ARIZONA MOORE REYNOLDS	904 632
19	10*47051.295.4	A	9-7-24	LLOYD D MOORE	904 459
20	10*47051.295.5	A	9-7-24	DALE R MOORE	904 635
21	10*47051.295.6	A	9-7-24	MARY I BURKHART	904 638
22	10*47051.295.7	A	9-7-24	JEANNE V MELCHIORI	904 462
23	10*47051.295.9	A	9-7-24	JAMES E HIMELRICK JR AND KAREN HIMELRICK	904 465
24	10*15501	B	9-7-12.1	RONALD AND EDNA MOORE	661 449
25	10*15501	C	9-7-12	RONALD AND EDNA MOORE	661 449
26	10*15486	D	9-7-22	RICHARD NEAL NORRIS AND CAROL NORRIS	905 430
27	10*15487	D	9-7-22	WILLIAM C RUTAN	905 475
28	10*15489	D	9-7-22	DONALD T SNODGRASS AND LILA F SNODGRASS	915 189
29	10*15492	D	9-7-22	HEATHER WHORTON STILLION AND CHRISTOPHER STILLION	905 473
30	10*15609	D	9-7-22	MICHELLE R WILHELM	834 456
31	10*15610	D	9-7-22	SARAH STEVENS	834 432
32	10*15611	D	9-7-22	ROBERT S ZEHNDER	834 437
33	10*15612	D	9-7-22	VERA SHIRLENE & ARTHUR WORKMAN	837 361
34	10*15613	D	9-7-22	THOMAS L STEVENS	836 290
35	10*15614	D	9-7-22	DAVID F RINE	837 130
36	10*15615	D	9-7-22	PAUL WAYNE RINE	837 133
37	10*15616	D	9-7-22	PHILLIP C RINE	836 332
38	10*15617	D	9-7-22	GLADYS M RINE	836 329
39	10*15618	D	9-7-22	CHARLES A RINE	835 22
40	10*15619	D	9-7-22	SHARON M REYNOLDS	840 322
41	10*15620	D	9-7-22	GLADYS RUCKMAN	840 319
42	10*15621	D	9-7-22	KATHERINE A STALNAKER	840 325
43	10*15622	D	9-7-22	JAY LEROY RINE	840 351
44	10*15623	D	9-7-22	SUSAN JANE WHEELER	847 473
45	10*15624	D	9-7-22	RONALD A ZEHNDER	847 213
46	10*15625	D	9-7-22	LAWRENCE W STIRLING	852 384
47	10*15626	D	9-7-22	ROBERT J SEAVER	854 77
48	10*15627	D	9-7-22	PAULA R SEAVER	853 483
49	10*15628	D	9-7-22	JENNIFER SEAVER	853 272
50	10*15629	D	9-7-22	DANIEL L RINE	860 86
51	10*15630	D	9-7-22	JANE L HELFER	836 342
52	10*15631	D	9-7-22	DAVID HEINZERTH	836 219
53	10*15632	D	9-7-22	MARIAN D JONES	835 38
54	10*15633	D	9-7-22	ROGER W GATTS	835 35
55	10*15634	D	9-7-22	JAMES W DAYTON	847 567
56	10*15635	D	9-7-22	ELLEN L BETTINAZZI	847 496
57	10*15636	D	9-7-22	JOSEPH ASTON JR BY HIS ATTORNEY-IN-FACT MELVIN J. ASTON	846 280
58	10*15637	D	9-7-22	DONALD ASTON	848 274
59	10*15638	D	9-7-22	PAUL J ASTON A/K/A JACK ASTON	848 277
60	10*15639	D	9-7-22	DELLA M BURKEY A/K/A MAXINE ASTON	848 435
61	10*15640	D	9-7-22	EMMA JANE DAVIS A/K/A EMA ASTON	848 271
62	10*15641	D	9-7-22	HENRY W ASTON	847 138
63	10*15642	D	9-7-22	KENNETH L DAYTON	852 366
64	10*15643	D	9-7-22	NORMAN G JOHNSON	848 363
65	10*15644	D	9-7-22	RONALD BEN LAUGHTON	852 360
66	10*15645	D	9-7-22	KAREN K OLOFIELD	854 111
67	10*15646	D	9-7-22	JUDITH A CIRONE	848 428
68	10*15647	D	9-7-22	KENNETH WENDELL OLFIELD	861 589
69	10*15648	D	9-7-22	MARTHA CRAWFORD	863 542
70	10*15649	D	9-7-22	MARY JANE DANIEL	858 28
71	10*15650	D	9-7-22	MARY GLADYS KUHN BY ATTORNEY IN FACT CONNIE LYONS	850 89
72	10*15651	D	9-7-22	THOMAS G ASTON	850 83
73	10*15652	D	9-7-22	ISAAC R ASTON A/K/A IKE ASTON	836 136
74	10*15653	D	9-7-22	EMILY M HENCERTH	862 574
75	10*15654	D	9-7-22	GEORGE E HENNINGER	863 612
76	10*15655	D	9-7-22	ANNA EMERSON A/K/A ANNIE ASTON	864 603
77	10*15656	D	9-7-22	PATTY L MYERS	867 100
78	10*15657	D	9-7-22	MARY MARGARET ASTON	868 283
79	10*15658	D	9-7-22	GLEN MATTHEW LAUGHTON	873 324
80	10*15659	D	9-7-22	WILLIAM E DAYTON BY HIS AIF	871 190
81	10*15660	D	9-7-22	DOUGLAS PAUL HENCERTH BY HIS AIF	871 193
82	10*15662	D	9-7-22	LARRY LEE CONKLE	863 354
83	10*15663	D	9-7-22	ROY A CONKLE SR AND LORIE A CONKLE	863 311
84	10*15664	D	9-7-22	THERESA ANNE HUGHES	863 343
85	10*15666	D	9-7-22	BRENDA J WHETZEL	863 635
86	10*15673	D	9-7-22	DIANE B ASTON	864 595
87	10*15679	D	9-7-22	CARA BONAR FREESE AND GEORGE H FREESE	905 481
88	10*15680	D	9-7-22	ROBERTA JANE CLAYTON	905 485
89	10*15688	D	9-7-22	JOSH GARY AND CHRISTINA M GARY	905 487
90	10*15689	D	9-7-22	JOHN LEROY BAKER AND CYNTHIA A BAKER	905 491
91	10*15690	D	9-7-22	ROBERT WHORTON AND LINDSAY WHORTON	905 489
92	10*15728	D	9-7-22	MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER	905 483
93	10*15729	D	9-7-22	DONNA KAY ALLEN AND ROGER ALLEN	905 493
94	10*15747	D	9-7-22	WILLIAM H BAKER	905 499
95	10*15748	D	9-7-22	CAROLYN LEE FUREY AND MARTIN J FUREY	905 495
96	10*15749	D	9-7-22	DIANA SMITH KNIGHT	905 497
97	10*16019	D	9-7-22	ROGER E GALLAGHER AND CONIE M GALLAGHER	905 503
98	10*18029	D	9-7-22	MARTHA ASHWORTH KNIGHT	905 505
99	10*16049	D	9-7-22	DANNY SHAWN KERNS AND AMY LYNN KERNS	905 518
100	10*16050	D	9-7-22	WILLIAM L GALLAGHER	905 512

FILE NO. 8655P13HUR6.dwg  
TEN HIGH 1N 13HU Rev8  
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API WELL NO. 47 — 051 — 01965MOD  
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DESIGNATED AGENT DIANNA STAMPER  
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COUNTY NAME  
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**TEN HIGH 1N LEASE  
UTICA UNIT - 341.75 AC±  
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05/10/2019

No.	Lease Name or No.	Tag	Parcel	Oil & Gas Royalty Owners	Deed Book/Page
101	10*16114	D	9-7-22	ROBERT SANDFORD BLACK AND JOAN BLACK	905 510
102	10*16123	D	9-7-22	PHYLLIS R GATTO	905 520
103	10*16138	D	9-7-22	LARRY W KUHN AND VICKIE B KUHN, HUSBAND AND WIFE	905 522
104	10*16139	D	9-7-22	HUBERT DEAN KUHN AND ANDREA KUHN	905 524
105	10*16140	D	9-7-22	ANDY PAUL KUHN & JACKIE KUHN	905 526
106	10*16141	D	9-7-22	HOWARD L KUHN AND MARY L KUHN	905 528
107	10*16177	D	9-7-22	JOSEPHINE BROWN	905 530
108	10*16179	D	9-7-22	DANA BERRY COPELAND	905 532
109	10*16287	D	9-7-22	CHARLINE M ENGLE AND KEVIN E ENGLE	905 534
110	10*16384	D	9-7-22	DANIELLE BONAR OSTER AND LOUIS MICHAEL OSTER	905 501
111	10*16389	D	9-7-22	CHARLES BERRY	905 508
112	10*16423	D	9-7-22	GAIL L VAUGHN AND LARRY VAUGHN	905 536
113	10*16426	D	9-7-22	RENE J RUTAN	905 538
114	10*16440	D	9-7-22	MELANIE C WILKINS AND ROBERT WILKINS	927 462
115	10*16513	D	9-7-22	LOWELL D AND JANICE L KNIGHT	927 458
116	10*16546	D	9-7-22	WALTER C RINE AND CHERYL A RINE	927 455
117	10*16558	D	9-7-22	PAUL BONAR KNIGHT AND SUZANNE L HOPKINS-KNIGHT	927 460
118	10*16820	D	9-7-22	ROBERTA ANN GIBB AND DAVID S GIBB	919 237
119	10*16844	D	9-7-22	HOLLY A LONGFELLOW	927 454
120	10*16845	D	9-7-22	TRACY L AND KEITH W BARNBY	927 452
121	10*16896	D	9-7-22	MARTHA J BLACK	927 450
122	10*17365	D	9-7-22	MYSTI JOANNE GOODMAN	927 468
123	10*17370	D	9-7-22	KELLY JUNE GOODMAN	927 470
124	10*17497	D	9-7-22	SUZANNA DOOLING AND MICHAEL DOOLING	927 464
125	10*17584	D	9-7-22	WILLIAM THOMAS BONAR AND MONICA BONAR	927 466
126	10*17625	D	9-7-22	CHARLES E BROWN	929 624
127	10*18256	D	9-7-22	JEFFREY STEPHEN GOODMAN	929 1
128	10*18415	D	9-7-22	CHAD LONGFELLOW	932 575
129	10*18514	D	9-7-22	JOHN R BERRY	933 569
130	10*18522	D	9-7-22	MARTIN REED BROWN AND DOLORES BROWN	933 558
131	10*19391	D	9-7-22	JEFF BERRY AND AMY BERRY	940 340
132	10*19406	D	9-7-22	WILLIAM KENT BROWN AND KAYLEEN BROWN	939 289
133	10*21960	D	9-7-22	AKRON BAPTIST TEMPLE	960 22
134	10*47051.295.10	D	9-7-22	DEENA J PALOMO	905 470
135	10*47051.295.11	D	9-7-22	REGINA D FIGUEROA AND DAVID FIGUEROA	905 435
136	10*47051.295.12	D	9-7-22	EARL D WELLMAN	905 432
137	10*47051.295.13	D	9-7-22	THE DOLLY F WOOD REVOCABLE TRUST BY NICHOLAS CHARLES WOOD AS TRUSTEE	904 641
138	10*47051.295.3	D	9-7-22	HAZEL ARIZONA MOORE REYNOLDS	904 632
139	10*47051.295.4	D	9-7-22	LLOYD D MOORE	904 459
140	10*47051.295.5	D	9-7-22	DALE R MOORE	904 635
141	10*47051.295.6	D	9-7-22	MARY I BURKHART	904 638
142	10*47051.295.7	D	9-7-22	JEANNE V MELCHIORI	904 462
143	10*47051.295.9	D	9-7-22	JAMES E HIMELRICK JR AND KAREN HIMELRICK	904 465
144	10*15557	E	9-7-30	RICKY L WHITLATCH ET AL	780 226
145	10*15557	F	9-7-30.1	RICKY L WHITLATCH ET AL	780 226
146	10*15501	G	9-7-13	RONALD AND EDNA MOORE	651 449
147	10*15557	H	9-7-15	RICKY L WHITLATCH ET AL	780 226
148	10*15358	I	9-7-14	ARNIE AND BOBBIE B GOODNIGHT	777 59
149	10*15300	J	9-7-6	JERRY FLETCHER AND CAROLYN FLETCHER, HUSBAND AND WIFE	661 154
150	10*15302	J	9-7-6	SHERWOOD YEATER	661 454
151	10*15558	K	9-7-5	ARNIE AND BOBBIE B GOODNIGHT	777 59
152	10*21588	L	9-5-3	WAYT LAWRENCE ALLEN	687 233
153	10*21591	L	9-5-3	BEATRICE ANN KIDD	687 230
154	10*15481	M	9-5-4	DEAN P RIGBY AND SUSAN RIGBY	908 197
155	10*15482	M	9-5-4	SUSAN NELSON	908 203
156	10*15594	M	9-5-4	IVAN F GORBY	695 527
157	10*15594	M	9-5-4	GORBY IVAN F	695 527
158	10*15595	M	9-5-4	JOSEPH D DAKAN	695 519
159	10*15595	M	9-5-4	DAKAN JOSEPH D	695 519
160	10*15596	M	9-5-4	JOHN E GORBY	695 523
161	10*15596	M	9-5-4	GORBY JOHN E	695 523
162	10*15597	M	9-5-4	KAREN S GAST	694 534
163	10*15597	M	9-5-4	GAST KAREN S	694 534
164	10*15598	M	9-5-4	ADA HAZEL GONTA	695 183
165	10*15598	M	9-5-4	GONTA ADA HAZEL	695 183
166	10*15599	M	9-5-4	PATSY JO RAJU	694 561
167	10*15599	M	9-5-4	RAJU PATSY JO	694 561
168	10*15686	M	9-5-4	JOHN OMER BOLTZ	908 160
169	10*15750	M	9-5-4	SANDRA K TRULL	908 229
170	10*16258	M	9-5-4	MATTIE RUTH JACKSON PRESCOTT	908 231
171	10*16118	M	9-5-4	RUBY RIDDLE JACKSON	908 233
172	10*16383	M	9-5-4	ROBERT STEPHEN DRIGGERS	908 224
173	10*16414	M	9-5-4	MARY ELIZABETH DRIGGERS	908 208
174	10*16416	M	9-5-4	CYNTHIA HUDSON	908 219
175	10*16424	M	9-5-4	ROBERT J RIGBY	908 241
176	10*16448	M	9-5-4	RALPH L AND JUANITA L CRIM	908 584
177	10*16478	M	9-5-4	MARION L AND EMILY CAMPBELL	908 245
178	10*16514	M	9-5-4	ALEX R CAMPBELL & JOYCE A CAMPBELL	908 248
179	10*16515	M	9-5-4	ANNA MARIE JACKSON	908 251
180	10*16516	M	9-5-4	WILSON ANDREW JACKSON	908 253
181	10*16545	M	9-5-4	ROBERT G FOUNDS AND ELLEN FOUNDS	908 260
182	10*16662	M	9-5-4	RICHARD THOMAS MIMS & VICKIE J MIMS	908 263
183	10*16666	M	9-5-4	MICHAEL P PYLE	908 255
184	10*16667	M	9-5-4	CHARLES F PYLE AND GAIL ANN PYLE	908 266
185	10*16668	M	9-5-4	JACK I PYLE AND MERRILEE ANN PYLE	908 257
186	10*16669	M	9-5-4	JOHN S DABO AND PATRICIA S DADO	908 269
187	10*16686	M	9-5-4	CHERYLE M TRACEY	927 475
188	10*16688	M	9-5-4	SHERRYL PYLE BAIR	927 481
189	10*16689	M	9-5-4	JOHN C FOUNDS	927 478
190	10*16690	M	9-5-4	RICARDO ORTIZ	921 352
191	10*16720	M	9-5-4	DONNA ELAINE BRASKETT	921 152
192	10*16738	M	9-5-4	CHARLES A RINE AND RUTH K RINE	908 274
193	10*16747	M	9-5-4	WILLIAM DALE BRASKETT	921 96
194	10*16787	M	9-5-4	HERBERT B CAMPBELL & DONNA D CAMPBELL	942 451
195	10*16798	M	9-5-4	PATRICK A RANKIN AND ROBIN A RANKIN	921 364
196	10*16800	M	9-5-4	JAMES KENNETH JACKSON AND JULIE JACKSON	921 93
197	10*16802	M	9-5-4	CHRISTOPHER RICHARDSON AND TAMMY RICHARDSON	921 495
198	10*16804	M	9-5-4	WILLIAM N TAYLOR AND SHERRY D TAYLOR	921 510
199	10*16806	M	9-5-4	VIRGINIA WHITMAN TRUST DTD 7-25-1984 JON WHITMAN TRUSTEE	921 528
200	10*16807	M	9-5-4	DAVID TULLER AND SUSAN STORTS TULLER	921 513

FILE NO. 8655P13HUR6.dwg  
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ADDRESS CT CORPORATION SYSTEM  
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PERMIT

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05/10/2019

No.	Lease Name or No.	Tag	Parcel	Oil & Gas Royalty Owners	Deed Book/Page
201	10*16808	M	9-5-4	MICHAEL L ORTIZ	921 349
202	10*16815	M	9-5-4	HAROLD W PYLE	921 357
203	10*16819	M	9-5-4	TERESA ORTIZ BIGGS	921 147
204	10*16821	M	9-5-4	SHEILA BRASKETT WEICHEY	921 516
205	10*16836	M	9-5-4	RICK A STORTS AND LENORE A STORTS	921 507
206	10*16837	M	9-5-4	TERRY L POFF AND THELMA A POFF	927 472
207	10*16838	M	9-5-4	ROBERT G FUNARI	821 82
208	10*16839	M	9-5-4	JAMES B FOUNDS AND LYNN M MOWERY	921 73
209	10*16863	M	9-5-4	TINA MOORE	921 334
210	10*16868	M	9-5-4	MICHAEL W STORTS AND JESSICA M STORTS	921 504
211	10*16879	M	9-5-4	MARK E STORTS AND LESLEY A STORTS	921 501
212	10*16890	M	9-5-4	BEVERLY ANN STORTS	921 498
213	10*16902	M	9-5-4	MARY BARCAW DUKE	921 105
214	10*16962	M	9-5-4	DENNIS P FLORY AND BARBARA EZELL FLORY	921 70
215	10*16976	M	9-5-4	LESTER G AND CONSTANCE B NICKOLSON	921 343
216	10*16977	M	9-5-4	JEREMY COCHENOUR	921 102
217	10*16987	M	9-5-4	LAURIE EZELL PERRY	921 355
218	10*16989	M	9-5-4	BRITTANY RICHARDSON	916 135
219	10*16991	M	9-5-4	MARYELLEN FOUNDS AND LAUREN FOUNDS	921 79
220	10*16996	M	9-5-4	THOMAS RANKIN	917 75
221	10*17130	M	9-5-4	CINDY L BARGER	921 137
222	10*17155	M	9-5-4	JESSE LEON JR AND TERESA GAIL EZELLE	921 118
223	10*17156	M	9-5-4	HENRI NELL JACKSON KENT BARNES	921 139
224	10*17157	M	9-5-4	JAMES N REEVES JR AND RITA M REEVES	921 367
225	10*17198	M	9-5-4	THOMAS G AND DIANE W BAYLESS	921 141
226	10*17205	M	9-5-4	SANDRA JEAN WILSON	921 524
227	10*17208	M	9-5-4	PATRICK S GALLAGHER AND JOYCE ANN FOUNDS	921 86
228	10*17274	M	9-5-4	DAVID H WILSON	921 474
229	10*17275	M	9-5-4	JOHN R REEVES AND MONA G REEVES	921 373
230	10*17276	M	9-5-4	BERTHA EZELL WYATT	921 526
231	10*17278	M	9-5-4	MICHAEL L EZELLE	921 121
232	10*17339	M	9-5-4	JOSEPH W FOUNDS	921 76
233	10*17377	M	9-5-4	MILTON HOWARD EZELLE JR AND ELIZABETH A EZELLE	921 123
234	10*17416	M	9-5-4	ANDREW M ORTIZ	921 346
235	10*17438	M	9-5-4	DENNIS M WILSON	921 476
236	10*17440	M	9-5-4	KENDRA WAUSA	927 484
237	10*17441	M	9-5-4	RALPH J WILSON	921 522
238	10*17442	M	9-5-4	SHANE ALLEN AND MENDY JEAN ALLEN	921 134
239	10*17443	M	9-5-4	MICHELLE MORROW-BACK	921 337
240	10*17444	M	9-5-4	KELLY FOUNDS CAMPBELL	921 99
241	10*17449	M	9-5-4	PHYLLIS J BLAKE	921 150
242	10*17482	M	9-5-4	TERESA EZELLE RALYA AND DAVID L RALYA	927 487
243	10*17483	M	9-5-4	RICHARD I PYLE	921 359
244	10*17484	M	9-5-4	NELDA S JACKSON	921 330
245	10*17485	M	9-5-4	MARGIE ANN JACKSON ROBBINS GRAHAM	921 91
246	10*17526	M	9-5-4	JEFFREY L REEVES AND JODY L REEVES	921 370
247	10*17527	M	9-5-4	JAMES MICHAEL EZELL AND LUCILLE D EZELL	921 111
248	10*17538	M	9-5-4	CHERYL RANKIN-KING	952 180
249	10*17552	M	9-5-4	JOHN BEVACQUA AND PATRICIA A BEVACQUA	921 144
250	10*17554	M	9-5-4	MICHAEL T RANKIN	921 361
251	10*17561	M	9-5-4	ROGER L TYRELL AND KATHRYN L TYRELL	921 519
252	10*17564	M	9-5-4	JAMES RONALD NICKOLSON AND TRACEY E NICKOLSON	921 340
253	10*17565	M	9-5-4	JESSE ALLEN JACKSON AND ELIZABETH D JACKSON	921 327
254	10*17566	M	9-5-4	NATHAN P ERDOSSY AND BARBARA T ERDOSSY	921 108
255	10*17588	M	9-5-4	JAMES M JACKSON	921 325
256	10*17589	M	9-5-4	MARY CHRISTINE MCKENNA	921 332
257	10*17744	M	9-5-4	SAM PRESLEY EZELL	921 116
258	10*17983	M	9-5-4	HOLLY SUE CUTHBERT	925 380
259	10*18021	M	9-5-4	CHRISTOPHER A HANIFAN AND JACKIE F HANIFAN	927 267
260	10*18022	M	9-5-4	DALE P WARD AND CYNTHIA J WARD	927 264
261	10*19524	M	9-5-4	THE ESTATE OF AGNES IRENE EZELL CLARK BY DAVID M EDWARDS, EXECUTOR	942 633
262	10*19692	M	9-5-4	KENDRA WAUSA	924 484
263	10*19693	M	9-5-4	MARIO R FUNARI AIF ROBERT G FUNARI	936 145
264	10*19695	M	9-5-4	VIRGINIA P FOUNDS KASSERMAN ET	944 333
265	10*19699	M	9-5-4	ROBERT J MILLS & SHERRA SUE MILLS	949 212
266	10*47051.223.1	M	9-5-4	STORCH JEAN A AIF JOHN HERMAN STORCH	877 216
267	10*47051.223.15	M	9-5-4	LARRY D TAUNT AND NANCY L TAUNT	908 14
268	10*47051.223.2	M	9-5-4	SCHIEFER STEPHANIE L ET VIR	885 321
269	10*47051.223.20	M	9-5-4	BARBARA A BUZZARD	908 24
270	10*47051.223.21	M	9-5-4	GARY T WARD AND SHARON D WARD	908 19
271	10*47051.223.24	M	9-5-4	JO DEE K DAVIS	908 136
272	10*47051.223.25	M	9-5-4	JOANNE WELCH	908 141
273	10*47051.223.26	M	9-5-4	WENDY L SMARKEL	908 69
274	10*47051.223.27	M	9-5-4	TIMI J HOBBS	908 277
275	10*47051.223.3	M	9-5-4	LEADBETTER ROBERT A ET UX	885 324
276	10*47051.223.30	M	9-5-4	LAURIE DRIGGERS MANDERSON	908 165
277	10*47051.223.33	M	9-5-4	NANCY C HOLSLEY	908 187
278	10*47051.223.35	M	9-5-4	DEBRA L CIAFFAGNONE	908 192
279	10*47051.223.6	M	9-5-4	JOSHUA RINE AND REBECCA RINE	907 634
280	10*15481	N	9-5-5.4	DEAN P RIGBY AND SUSAN RIGBY	908 197
281	10*15482	N	9-5-5.4	SUSAN NELSON	908 203
282	10*15668	N	9-5-5.4	MICHAEL J SNYDER	865 186
283	10*15686	N	9-5-5.4	JOHN OMER BOLTZ	908 160
284	10*15750	N	9-5-5.4	SANDRA K TRULL	908 229
285	10*16058	N	9-5-5.4	MATTIE RUTH JACKSON PRESCOTT	908 231
286	10*16118	N	9-5-5.4	RUBY RIDDLE JACKSON	908 233
287	10*16383	N	9-5-5.4	ROBERT STEPHEN DRIGGERS	908 224
288	10*16414	N	9-5-5.4	MARY ELIZABETH DRIGGERS	908 208
289	10*16416	N	9-5-5.4	CYNTHIA HUDSON	906 219
290	10*16424	N	9-5-5.4	ROBERT J RIGBY	908 241
291	10*16448	N	9-5-5.4	RALPH L AND JUANITA L CRIM	908 584
292	10*16478	N	9-5-5.4	MARION LAND EMILY CAMPBELL	908 245
293	10*16514	N	9-5-5.4	ALEX RUSSELL AND JOYCE A CAMPBELL	908 248
294	10*16515	N	9-5-5.4	ANNA MARIE JACKSON	906 251
295	10*16516	N	9-5-5.4	WILSON ANDREW JACKSON	908 253
296	10*16662	N	9-5-5.4	RICHARD THOMAS AND VICKI J MIMS	908 863
297	10*16738	N	9-5-5.4	CHARLES A RINE AND RUTH K RINE	908 274
298	10*16787	N	9-5-5.4	HERBERT B CAMPBELL & DONNA D CAMPBELL	942 451
299	10*16800	N	9-5-5.4	JAMES KENNETH JACKSON AND JULIE JACKSON	921 99
300	10*16806	N	9-5-5.4	VIRGINIA I WHITMAN	921 528

FILE NO. 8655P13HUR6.dwg  
 TEN HIGH 1N 13HU Rev8  
 DATE AUGUST 14, 20 17  
 REVISED SEPTEMBER 26, 2018, 20 18  
 OPERATORS WELL NO. TEN HIGH 1N-13HU  
 API WELL NO. 47 — 051 — 01965  
 STATE COUNTY PERMIT  
 MDD



STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS  
 P.S. 849  
*C. Victor Moyers*

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

TEN HIGH 1N LEASE  
 UTICA UNIT - 341.75 AC±  
 WELL 13HU  
 TUG HILL OPERATING



05/10/2019

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301	10*16962	N	9-5-5.4	DENNIS P AND BARBARA EZELL FLORY	921 70
302	10*16976	N	9-5-5.4	LESTER G AND CONSTANCE B NICKOLSON	921 343
303	10*16987	N	9-5-5.4	LAURIE EZELL PERRY	921 355
304	10*17130	N	9-5-5.4	CINDY L BARGER	921 137
305	10*17155	N	9-5-5.4	JESSE LEON JR AND TERESA GAIL EZELLE	921 118
306	10*17156	N	9-5-5.4	HENRI NELL JACKSON KENT BARNES	921 139
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315	10*17438	N	9-5-5.4	DENNIS M WILSON	921 476
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318	10*17482	N	9-5-5.4	TERESA EZELLE RALYA AND DAVID L RALYA	927 487
319	10*17484	N	9-5-5.4	NELDA S JACKSON	921 330
320	10*17485	N	9-5-5.4	MARGIE ANN JACKSON ROBBINS GRAHAM	921 91
321	10*17526	N	9-5-5.4	JEFFREY L REEVES AND JODY L REEVES	921 370
322	10*17527	N	9-5-5.4	JAMES MICHAEL EZELL AND LUCILLE D EZELL	921 111
323	10*17561	N	9-5-5.4	KATHRYN L & ROGER L TYRELL	921 519
324	10*17564	N	9-5-5.4	JAMES R & TRACEY E NICKOLSON	921 340
325	10*17565	N	9-5-5.4	JESSE ALLEN JACKSON AND ELIZABETH D JACKSON	921 327
326	10*17566	N	9-5-5.4	NATHAN P & BARBARA T ERDOSSY	921 108
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336	10*47051.223.1	N	9-5-5.4	JEAN ANNE GORBY STORCH	877 216
337	10*47051.223.2	N	9-5-5.4	STEPHANIE SCHIEFER AND GEOFFREY SCHIEFER	885 321
338	10*47051.223.3	N	9-5-5.4	ROBERT A LEADBETTER AND M REBECCA LEADBETTER	885 324
339	10*47051.223.6	N	9-5-5.4	JOSHUA RINE AND REBECCA RINE	907 634
340	10*47051.223.15	N	9-5-5.4	LARRY D TAUNT AND NANCY L TAUNT	908 14
341	10*47051.223.20	N	9-5-5.4	BARBARA A BUZZARD	908 24
342	10*47051.223.21	N	9-5-5.4	GARY T WARD AND SHARON D WARD	908 19
343	10*47051.223.24	N	9-5-5.4	JO DEE K DAVIS	908 136
344	10*47051.223.25	N	9-5-5.4	JOANNE WELCH	908 141
345	10*47051.223.26	N	9-5-5.4	WENDY L SMARKEL	908 69
346	10*47051.223.27	N	9-5-5.4	TIMI J HOBBS	908 277
347	10*47051.223.29	N	9-5-5.4	PATSY JO RAJU	908 155
348	10*47051.223.30	N	9-5-5.4	LAURIE DRIGGERS MANDERSON	908 105
349	10*47051.223.33	N	9-5-5.4	NANCY C HOUSLEY	908 187
350	10*47051.223.35	N	9-5-5.4	DEBRA L CIAFFAGLIONE	908 192
351	10*15481	O	9-5-18	DEAN P RIGBY AND SUSAN RIGBY	908 157
352	10*15482	O	9-5-18	SUSAN NELSON	908 203
353	10*15674	O	9-5-18	DONALD E LEACH ET AL	882 209
354	10*15686	O	9-5-18	JOHN OMER BOLTZ	908 160
355	10*15750	O	9-5-18	SANDRA K TRULL	908 229
356	10*16058	O	9-5-18	MATTIE RUTH JACKSON PRESCOTT	908 231
357	10*16118	O	9-5-18	RUBY RIDDLE JACKSON	908 233
358	10*16883	O	9-5-18	ROBERT STEPHEN DRIGGERS	908 224
359	10*16414	O	9-5-18	MARY ELIZABETH DRIGGERS	908 208
360	10*16416	O	9-5-18	CYNTHIA HUDSON	908 219
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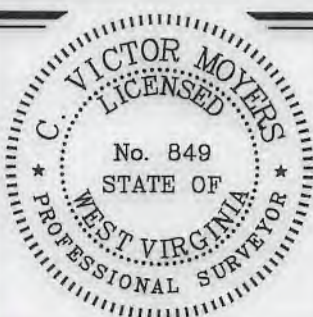
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DATE AUGUST 14, 20 17

REVISED SEPTEMBER 26, 2018, 20 18

OPERATORS WELL NO. TEN HIGH 1N-13HU

API WELL NO. 47 — 051 — 01965  
 STATE COUNTY PERMIT



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



P.S. 849 C. Victor Moyers

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

COUNTY NAME PERMIT

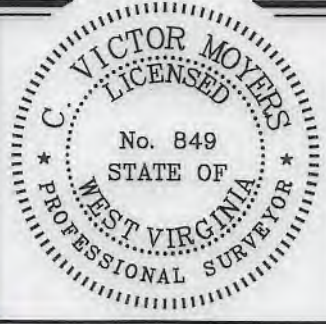
TEN HIGH 1N LEASE  
 UTICA UNIT - 341.75 AC±  
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 TUG HILL OPERATING



05/10/2019

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420	10*47051.223.33	O	9-5-18	NANCY C HOUSLEY	908 187
421	10*47051.223.35	O	9-5-18	DEBRA L CIAFFAGLIONE	908 192
422	10*15522	P	9-5-17	CARLA S CROW	728 412
423	10*15481	P	9-5-17	DEAN P RIGBY AND SUSAN RIGBY	908 197
424	10*15482	P	9-5-17	SUSAN NELSON	908 203
425	10*15686	P	9-5-17	JOHN OMER BOLTZ	908 160
426	10*15750	P	9-5-17	SANDRA K TRULL	908 229
427	10*16058	P	9-5-17	MATTIE RUTH JACKSON PRESCOTT	908 231
428	10*16118	P	9-5-17	RUBY RIDDLE JACKSON	908 233
429	10*16383	P	9-5-17	ROBERT STEPHEN DRIGGERS	908 224
430	10*16414	P	9-5-17	MARY ELIZABETH DRIGGERS	908 208
431	10*16416	P	9-5-17	CYNTHIA HUDSON	908 219
432	10*16424	P	9-5-17	ROBERT J RIGBY	908 241
433	10*16448	P	9-5-17	RALPH L AND JUANITA L CRIM	908 584
434	10*16478	P	9-5-17	MARION L AND EMILY CAMPBELL	908 245
435	10*16514	P	9-5-17	ALEX RUSSELL AND JOYCE A CAMPBELL	908 248
436	10*16515	P	9-5-17	ANNA MARIE JACKSON	908 251
437	10*16516	P	9-5-17	WILSON ANDREW JACKSON	908 253
438	10*16662	P	9-5-17	RICHARD THOMAS AND VICKI J MIMS	908 863
439	10*16738	P	9-5-17	CHARLES A RINE AND RUTH K RINE	908 274
440	10*16787	P	9-5-17	HERBERT B CAMPBELL & DONNA D CAMPBELL	942 451
441	10*16800	P	9-5-17	JAMES KENNETH JACKSON AND JUJUE JACKSON	921 95
442	10*16806	P	9-5-17	VIRGINIA I WHITMAN	921 528
443	10*16962	P	9-5-17	DENNIS P AND BARBARA EZELL FLORY	921 70
444	10*16976	P	9-5-17	LESTER G AND CONSTANCE B NICKOLSON	921 343
445	10*16987	P	9-5-17	LAURIE EZELL PERRY	921 355
446	10*17130	P	9-5-17	CINDY L BARGER	921 137
447	10*17155	P	9-5-17	JESSE LEON JR AND TERESA GAIL EZELLE	921 118
448	10*17156	P	9-5-17	HENRI NELL JACKSON KENT BARNES	921 139
449	10*17157	P	9-5-17	JAMES N REEVES JR AND RITA M REEVES	921 367
450	10*17198	P	9-5-17	THOMAS G AND DIANE W BAYLESS	921 141
451	10*17205	P	9-5-17	SANDRA JEAN WILSON	921 524
452	10*17274	P	9-5-17	DAVID H WILSON	921 474
453	10*17275	P	9-5-17	JOHN R REEVES AND MONA G REEVES	921 373
454	10*17276	P	9-5-17	BERTHA EZELL WYATT	921 526
455	10*17278	P	9-5-17	MICHAEL EZELLE	921 121
456	10*17377	P	9-5-17	MILTON HOWARD EZELLE JR AND ELIZABETH A EZELLE	921 123
457	10*17438	P	9-5-17	DENNIS M WILSON	921 476
458	10*17441	P	9-5-17	RALPH J WILSON	921 522
459	10*17449	P	9-5-17	PHYLLIS J BLAKE	921 150
460	10*17482	P	9-5-17	TERESA EZELLE RALYA AND DAVID L RALYA	927 487
461	10*17484	P	9-5-17	NELDA S JACKSON	921 330
462	10*17485	P	9-5-17	MARGIE ANN JACKSON ROBBINS GRAHAM	921 91
463	10*17526	P	9-5-17	JEFFREY L REEVES AND JODY L REEVES	921 370
464	10*17527	P	9-5-17	JAMES MICHAEL EZELL AND LUCILLE D EZELL	921 111
465	10*17561	P	9-5-17	KATHRYN L & ROGER L TYRELL	921 519
466	10*17564	P	9-5-17	JAMES R & TRACEY E NICKOLSON	921 340
467	10*17565	P	9-5-17	JESSE ALLEN JACKSON AND ELIZABETH D JACKSON	921 327
468	10*17566	P	9-5-17	NATHAN P & BARBARA T ERDOSSY	921 108
469	10*17588	P	9-5-17	JAMES M JACKSON	921 325
470	10*17589	P	9-5-17	MARY CHRISTINE MCKENNA	921 332
471	10*17744	P	9-5-17	SAM PRESLEY EZELL	921 116
472	10*17983	P	9-5-17	HOLLY SUE CUTHBERT	925 380
473	10*18021	P	9-5-17	CHRISTOPHER A HANIFAN AND JACKIE F HANIFAN	927 267
474	10*18022	P	9-5-17	DALE P WARD AND CYNTHIA J WARD	927 264
475	10*19524	P	9-5-17	THE ESTATE OF AGNES IRENE EZELL CLARK BY DAVID M EDWARDS, EXECUTOR	942 633
476	10*19695	P	9-5-17	VIRGINIA P FOUNDS KASSERMAN ET	944 333
477	10*19939	P	9-5-17	ROBERT J MILLS & SHERRA SUE MILLS	949 212
478	10*47051.223.1	P	9-5-17	JEAN ANNE GORBY STORCH	877 216
479	10*47051.223.2	P	9-5-17	STEPHANIE SCHIEFER AND GEOFFREY SCHIEFER	885 321
480	10*47051.223.3	P	9-5-17	ROBERT A LEADBETTER AND M REBECCA LEADBETTER	885 324
481	10*47051.223.6	P	9-5-17	JOSHUA RINE AND REBECCA RINE	907 634
482	10*47051.223.15	P	9-5-17	LARRY D TAUNT AND NANCY L TAUNT	908 14
483	10*47051.223.20	P	9-5-17	BARBARA A BUZZARD	908 24
484	10*47051.223.21	P	9-5-17	GARY T WARD AND SHARON D WARD	908 19
485	10*47051.223.24	P	9-5-17	JO DEE K DAVIS	908 136
486	10*47051.223.25	P	9-5-17	JOANNE WELCH	908 141
487	10*47051.223.26	P	9-5-17	WENDY L SMARKEL	908 69
488	10*47051.223.27	P	9-5-17	TIMI J HOBBS	908 277
489	10*47051.223.29	P	9-5-17	PATSY JO RAJU	908 155
490	10*47051.223.30	P	9-5-17	LAURIE DRIGGERS MANDERSON	908 165
491	10*47051.223.33	P	9-5-17	NANCY C HOUSLEY	908 187
492	10*47051.223.35	P	9-5-17	DEBRA L CIAFFAGLIONE	908 192
493	10*15481	Q	9-5-5	DEAN P RIGBY AND SUSAN RIGBY	908 197
494	10*15482	Q	9-5-5	SUSAN NELSON	908 203
495	10*15668	Q	9-5-5	MICHAEL J SNYDER	865 186
496	10*15668	Q	9-5-5	MICHAEL J SNYDER	865 186
497	10*15686	Q	9-5-5	JOHN OMER BOLTZ	908 160
498	10*15750	Q	9-5-5	SANDRA K TRULL	908 229
499	10*16058	Q	9-5-5	MATTIE RUTH JACKSON PRESCOTT	908 231
500	10*16118	Q	9-5-5	RUBY RIDDLE JACKSON	908 233

FILE NO. 8655P13HUR6.dwg  
 TEN HIGH 1N 13HU Rev8  
 DATE AUGUST 14, 20 17  
 REVISED SEPTEMBER 26, 2018, 20 18  
 OPERATORS WELL NO. TEN HIGH 1N-13HU  
 API WELL NO. 47 — 051 — 01965  
 STATE COUNTY PERMIT Mon



STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS  
 P.S. 849 C. Victor Moyers

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

COUNTY NAME  
 PERMIT

TEN HIGH 1N LEASE  
 UTICA UNIT - 341.75 AC±  
 WELL 13HU  
 TUG HILL OPERATING



05/10/2019

No.	Lease Name or No.	Tag	Parcel	Oil & Gas Royalty Owners	Deed Book/Page
501	10*16383	Q	9-5-5	ROBERT STEPHEN DRIGGERS	908 224
502	10*16414	Q	9-5-5	MARY ELIZABETH DRIGGERS	908 208
503	10*16416	Q	9-5-5	CYNTHIA HUDSON	908 219
504	10*16424	Q	9-5-5	ROBERT J RIGBY	908 241
505	10*16448	Q	9-5-5	RALPH L AND JUANITA L CRIM	908 584
506	10*16478	Q	9-5-5	MARION L AND EMILY CAMPBELL	908 245
507	10*16514	Q	9-5-5	ALEX R CAMPBELL & JOYCE A CAMPBELL	908 248
508	10*16515	Q	9-5-5	ANNA MARIE JACKSON	908 251
509	10*16516	Q	9-5-5	WILSON ANDREW JACKSON	908 253
510	10*16662	Q	9-5-5	RICHARD THOMAS MIMS & VICKIE J MIMS	908 263
511	10*16738	Q	9-5-5	CHARLES A RINE AND RUTH K RINE	908 274
512	10*16787	Q	9-5-5	HERBERT B CAMPBELL & DONNA D CAMPBELL	942 451
513	10*16800	Q	9-5-5	JAMES KENNETH JACKSON AND JULIE JACKSON	921 93
514	10*16806	Q	9-5-5	VIRGINIA WHITMAN TRUST DTD 7-25-1984 JON WHITMAN TRUSTEE	921 528
515	10*16962	Q	9-5-5	DENNIS P FLORY AND BARBARA EZELL FLORY	921 70
516	10*16976	Q	9-5-5	LESTER G AND CONSTANCE B NICKOLSON	921 343
517	10*16987	Q	9-5-5	LAURIE EZELL PERRY	921 355
518	10*17130	Q	9-5-5	CINDY L BARGER	921 137
519	10*17155	Q	9-5-5	JESSE LEON JR AND TERESA GAIL EZELLE	921 118
520	10*17156	Q	9-5-5	HENRI NELL JACKSON KENT BARNES	921 139
521	10*17157	Q	9-5-5	JAMES N REEVES JR AND RITA M REEVES	921 367
522	10*17198	Q	9-5-5	THOMAS G AND DIANE W BAYLESS	921 141
523	10*17205	Q	9-5-5	SANDRA JEAN WILSON	921 524
524	10*17274	Q	9-5-5	DAVID H WILSON	921 474
525	10*17275	Q	9-5-5	JOHN R REEVES AND MONA G REEVES	921 373
526	10*17276	Q	9-5-5	BERTHA EZELL WYATT	921 526
527	10*17278	Q	9-5-5	MICHAEL LEZELLE	921 121
528	10*17377	Q	9-5-5	MILTON HOWARD EZELLE JR AND ELIZABETH A EZELLE	921 123
529	10*17438	Q	9-5-5	DENNIS M WILSON	921 476
530	10*17441	Q	9-5-5	RALPH J WILSON	921 522
531	10*17449	Q	9-5-5	PHYLLIS J BLAKE	921 150
532	10*17482	Q	9-5-5	TERESA EZELLE RALYA AND DAVID L RALYA	927 487
533	10*17484	Q	9-5-5	NELDA S JACKSON	921 330
534	10*17485	Q	9-5-5	MARGIE ANN JACKSON ROBBINS GRAHAM	921 91
535	10*17526	Q	9-5-5	JEFFREY L REEVES AND JODY L REEVES	921 370
536	10*17527	Q	9-5-5	JAMES MICHAEL EZELL AND LUCILLE D EZELL	921 111
537	10*17561	Q	9-5-5	ROGER L TYRELL AND KATHRYN L TYRELL	921 519
538	10*17564	Q	9-5-5	JAMES RONALD NICKOLSON AND TRACEY E NICKOLSON	921 340
539	10*17565	Q	9-5-5	JESSE ALLEN JACKSON AND ELIZABETH D JACKSON	921 327
540	10*17566	Q	9-5-5	NATHAN P ERDOSSY AND BARBARA T ERDOSSY	921 108
541	10*17588	Q	9-5-5	JAMES M JACKSON	921 325
542	10*17589	Q	9-5-5	MARY CHRISTINE MCKENNA	921 332
543	10*17744	Q	9-5-5	SAM PRESLEY EZELL	921 116
544	10*17983	Q	9-5-5	HOLLY SUE CUTHBERT	925 380
545	10*18021	Q	9-5-5	CHRISTOPHER A HANIFAN AND JACKIE F HANIFAN	927 267
546	10*18022	Q	9-5-5	DALE P WARD AND CYNTHIA J WARD	927 264
547	10*19524	Q	9-5-5	THE ESTATE OF AGNES IRENE EZELL CLARK BY DAVID M EDWARDS, EXECUTOR	942 633
548	10*19695	Q	9-5-5	VIRGINIA P FOLINDS KASSERMAN ET	944 333
549	10*19939	Q	9-5-5	ROBERT J MILLS & SHERRA SUE MILLS	949 212
550	10*47051.223.1	Q	9-5-5	JEAN ANNE GORBY STORCH AIF JOHN HERMAN STORCH	877 216
551	10*47051.223.15	Q	9-5-5	LARRY D TAUNT AND NANCY L TAUNT	908 14
552	10*47051.223.2	Q	9-5-5	STEPHANIE SCHIEFER AND GEOFFREY SCHIEFER	885 321
553	10*47051.223.20	Q	9-5-5	BARBARA A BUZZARD	908 24
554	10*47051.223.21	Q	9-5-5	GARY T WARD AND SHARON D WARD	908 19
555	10*47051.223.24	Q	9-5-5	JO DEE K DAVIS	908 136
556	10*47051.223.25	Q	9-5-5	JOANNE WELCH	908 141
557	10*47051.223.26	Q	9-5-5	WENDY L SMARKEL	908 89
558	10*47051.223.27	Q	9-5-5	TIMI J HOBBS	908 277
559	10*47051.223.29	Q	9-5-5	PATSY JO RAJU	908 156
560	10*47051.223.3	Q	9-5-5	ROBERT A LEADBETTER AND M REBECCA LEADBETTER	885 324
561	10*47051.223.30	Q	9-5-5	LAURIE DRIGGERS MANDERSON	908 165
562	10*47051.223.33	Q	9-5-5	NANCY C HOUSLEY	908 187
563	10*47051.223.35	Q	9-5-5	DEBRA L CIAFFAGNONE	908 192
564	10*47051.223.6	Q	9-5-5	JOSHUA RINE AND REBECCA RINE	907 634
565	10*15594	R	9-5-4.1	GORBY IVAN F	695 527
566	10*15595	R	9-5-4.1	DAKAN JOSEPH D	695 519
567	10*15596	R	9-5-4.1	GORBY JOHN E	695 523
568	10*15597	R	9-5-4.1	GAST KAREN S	694 534
569	10*15598	R	9-5-4.1	GONTA ADA HAZEL	695 183
570	10*15599	R	9-5-4.1	RAJU PATSY JO	694 561
571	47051.223.1	R	9-5-4.1	STORCH JEAN A AIF JOHN HERMAN STORCH	877 216
572	47051.223.2	R	9-5-4.1	SCHIEFER STEPHANIE L ET VIR	885 321
573	47051.223.3	R	9-5-4.1	LEADBETTER ROBERT A ET UX	885 324
574	10*47051.223.1	S	9-5-5.3	JEAN ANNE GORBY STORCH AIF JOHN HERMAN STORCH	877 216
575	10*47051.223.2	S	9-5-5.3	STEPHANIE SCHIEFER AND GEOFFREY SCHIEFER	885 321
576	10*47051.223.3	S	9-5-5.3	ROBERT A LEADBETTER AND M REBECCA LEADBETTER	885 324
577	10*21696	T	9-5-6.5	DAKAN JOSEPH D	694 71
578	10*21698	T	9-5-6.5	RAJU PATSY JO	695 175
579	10*21718	T	9-5-6.5	LINDA S DELBERT	695 187
580	10*47051.223.2	T	9-5-6.5	STEPHANIE SCHIEFER AND GEOFFREY SCHIEFER	885 321
581	10*47051.223.3	T	9-5-6.5	ROBERT A LEADBETTER AND M REBECCA LEADBETTER	885 324
582	10*21696	U	9-5-6.3	DAKAN JOSEPH D	694 71
583	10*21698	U	9-5-6.3	RAJU PATSY JO	695 175
584	10*47051.223.2	U	9-5-6.3	STEPHANIE SCHIEFER AND GEOFFREY SCHIEFER	885 321
585	10*47051.223.3	U	9-5-6.3	ROBERT A LEADBETTER AND M REBECCA LEADBETTER	885 324
586	10*21712	V	9-5-5.2	PETER PARKER	889 260
587	10*47051.223.1	V	9-5-5.2	JEAN ANNE GORBY STORCH AIF JOHN HERMAN STORCH	877 216
588	10*47051.223.2	V	9-5-5.2	STEPHANIE SCHIEFER AND GEOFFREY SCHIEFER	885 321
589	10*47051.223.3	V	9-5-5.2	ROBERT A LEADBETTER AND M REBECCA LEADBETTER	885 324
590	10*23884	W	9-1-14	STONE HILL MINERAL HOLDINGS	PENDING
591	10*23881	X	9-1-14.1	ALICE J MARTIN ET VIR	893 250
592	10*21696	Y	9-5-6	DAKAN JOSEPH D	694 71
593	10*21698	Y	9-5-6	RAJU PATSY JO AKA GORBY PATSY JO	695 175
594	10*21702	Y	9-5-6	NANCY L SNYDER	885 191
595	10*21696	Z	9-5-6.2	DAKAN JOSEPH D	694 71
596	10*21698	Z	9-5-6.2	RAJU PATSY JO AKA GORBY PATSY JO	695 175
597	10*47051.223.2	Z	9-5-6.2	STEPHANIE SCHIEFER AND GEOFFREY SCHIEFER	885 321
598	10*47051.223.3	Z	9-5-6.2	ROBERT A LEADBETTER AND M REBECCA LEADBETTER	885 324
599	10*24536	AA	(NOT ASSESSED)	MARSHALL COUNTY BOARD OF EDUCATION	1026 67
600	10*24536	BB	(NOT ASSESSED)	MARSHALL COUNTY BOARD OF EDUCATION	1026 67
601	10*23769	CC	9-1-13.2	ROBERT A. WILLIAMS & CHERYL L. WILLIAMS, HIS WIFE	1014 500
602	10*21695	DD	NOT ASSESSED	ROBERT A. WILLIAMS & CHERYL L. WILLIAMS, HIS WIFE	847 521

FILE NO. 8655P13HUR6.dwg

TEN HIGH 1N 13HU Rev8

DATE AUGUST 14, 20 17

REVISED SEPTEMBER 26, 2018, 20 18

OPERATORS WELL NO. TEN HIGH 1N-13HU

API WELL NO. 47 — 051 — 01965MOD  
 STATE COUNTY PERMIT



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



P.S. 849 *C. Victor Moyers*

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

**TEN HIGH 1N LEASE  
UTICA UNIT - 341.75 AC±  
WELL 13HU  
TUG HILL OPERATING**

T.H. LATITUDE 39°50'00"  
B.H. LATITUDE 39°52'30"

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)  
NAD'83 S.P.C.(FT) N. 478,146.86 E. 1,636,782.34  
NAD'83 GEO. LAT-(N) 39.806770 LONG-(W) 80.680793  
NAD'83 UTM (M) N. 4,406,359.69 E. 527,324.06  
**LANDING POINT**  
NAD'83 S.P.C.(FT) N. 479,204.8 E. 1,637,060.1  
NAD'83 GEO. LAT-(N) 39.809706 LONG-(W) 80.677719  
NAD'83 UTM (M) N. 4,406,686.5 E. 527,586.1  
**BOTTOM HOLE**  
NAD'83 S.P.C.(FT) N. 487,904.7 E. 1,632,965.0  
NAD'83 GEO. LAT-(N) 39.833418 LONG-(W) 80.694828  
NAD'83 UTM (M) N. 4,409,313.1 E. 526,112.6

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

TAG	SURFACE OWNER	PARCEL	ACRES
A	LAWRENCE & SHIRLEY CONKLE ESTS	9-7-24	139.79
B	THOMAS R. & KIMBERLY WHITFIELD	9-7-25.2	76.40
C	MARK H. FOX	9-7-11	75.37
D	ROBERT G. HUBBS & SCARLETTE E. OTTE	9-7-12.1	86.363
E	RONALD MOORE, ET UX	9-7-12	16.587
F	RONALD MOORE, ET UX	9-7-13	51.49
G	ROBERT G. HUBBS & SCARLETTE E. OTTE	9-7-7	106.61
H	TERESA L. HORNER WITH JERRY G. & CAROLYN K. FLETCHER (LIFE ESTATE)	9-7-6	103.30
I	DAVID L. HOLMES, ET UX	9-5-14	37.345
J	DAVID L. HOLMES, ET UX	9-5-14.2	4.995
K	DAVID L. HOLMES, ET UX	9-5-14.5	1.66
L	BETTY R. OTT	9-5-14.4	10.501
M	CARLA SUE CROW	9-5-17	6.341
N	KELLY WILSON WITH DONLD E. LEACH (LIFE ESTATE)	9-5-18	5.807
O	KELLY WILSON WITH DONLD E. LEACH (LIFE ESTATE)	9-5-20	6.924
P	BETTY R. OTT	9-5-19	0.933
Q	LARRY L. CONKLE, JR	9-5-16	2.365
R	MARK H. FOX ET UX	9-5-15	36.533
S	SCOTT A. HOSTUTLER	9-5-16.1	0.142
T	SCOTT A. HOSTUTLER	9-5-8	26.752
U	MICHAEL JOSEPH SNYDER	9-5-5.4	64.00
V	RALPH E. WELLMAN, ET UX	9-5-21	1.00
W	RALPH E. WELLMAN, ET UX	9-5-22	0.5
X	RALPH E. WELLMAN, ET UX	9-5-23	1.00
Y	MISTY CROW WITH ROBERT & ELSIE WHETZEL (LIFE ESTATE)	9-5-8.2	1.973
Z	ALVIE & MARCELLA DARRAH	9-5-24	1.986
AA	YEAGER ADDITION TO BOWMAN RIDGH CEMETERY FROM PLAT OF SURVEY DB 509-374	NOT ASSD	NOT ASSD
BB	TRUSTEES OF M E CHURCH	NOT ASSD	1.00
CC	M E CHURCH	NOT ASSD	NOT ASSD
DD	M E CHURCH	9-5-7	81.5 POLES (6 AC ASSD)
EE	JON B. CRAWFORD	9-5-6.1	4.679
FF	NANCY L. SNYDER	9-5-6.8	0.691
GG	DAVID M. TOLER	9-5-5.1	0.985
HH	MICHAEL JOSEPH SNYDER	9-5-5	35.02
II	NANCY L. SNYDER	9-5-6.7	0.678
JJ	NANCY L. SNYDER	9-5-6.4	0.694
KK	NANCY L. SNYDER	9-5-6.6	0.420
LL	NANCY L. SNYDER (LIFE ESTATE)	9-5-6	82.858
MM	MICHAEL JOSEPH SNYDER	9-5-6.2	2.82
NN	CNX LAND LLC	9-5-6.9	22.392
OO	ROBERT A. & CHERYL L. WILLIAMS	9-1-13	80.897
PP	HARRY J. CRAWFORD, ET UX (LIFE ESTATE)	9-2-12	80.718

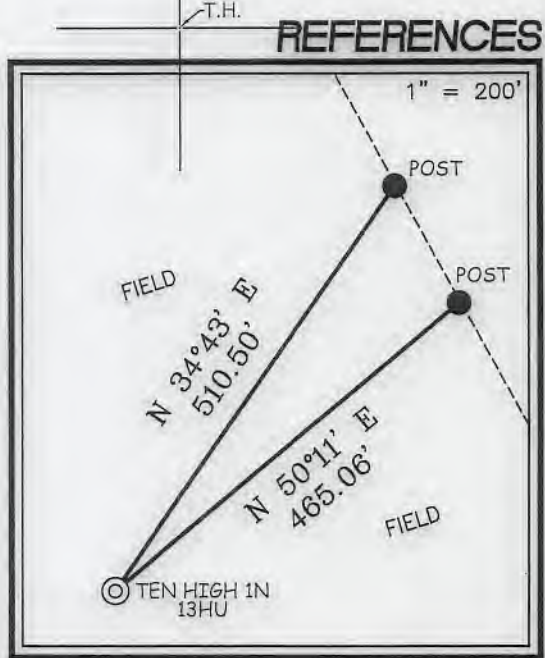
MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-1-13.1	BURDETTE L. BEUCKE	14.256
9-1-13.4	MACK L. CROW	4.273
9-1-13.5	MACK L. CROW	2.491
9-1-13.6	GERALD E. LOGSDON, ET UX	7.621
9-1-13.7	SHARON D. TUCKER	7.817
9-1-14	ALICIA JANE MARTIN	2.4602
9-1-14.1	ALICE J. & DOUGLAS J. MARTIN	0.905
9-5-3.2	PETER PARKER	0.873
9-5-3.3	MICHAEL J. & NANCY L. SNYDER	1.870
9-5-6.3	DEUTSCHE BANK NATIONAL TRUST CO.	1.391
9-5-6.5	LINDA GORBY DELBERT	1.087
9-5-14.1	SAVANNA WEST, ET AL	2.819
9-5-14.3	MARK FOX, ET UX	10.714
9-5-24	ALVIE & MARCELLA DARRAH	1.986
9-7-11.1	WEST VIRGINIA DEPARTMENT OF HIGHWAYS	3.63
9-7-25	THOMAS R. & KIMBERLY WHITFIELD	0.83
9-7-25.1	THOMAS R. & KIMBERLY WHITFIELD	4.23
9-7-27	CAROL J. ANDERSON - LIFE	1.005
9-7-28	VICTOR & CLAIRE CAMERON	1.983
9-7-28.1	NATHAN WILLIAMS	2.768
9-7-29.1	CAROL J. ANDERSON - LIFE	5.004
9-11-7.1	BRENDA J. WHETZEL	17.812
9-11-8	WNEK FAMILY IRREVOCABLE TRUST	30.10
9-12.4	THOMAS R. & KIMBERLY WHITFIELD	54.02

9,676' T.H.

15,147' B.H.

**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'
- PROPOSED LATERAL OR TOP HOLE OF TEN HIGH 1N-11HU IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF PROPOSED WELLS HEAVEN HILL 3-6HU, HEAVEN HILL 3-7HU, HEAVEN HILL 3-8HU, HEAVEN HILL 3N-10HU, TEN HIGH 1S-14HU, TEN HIGH 1S-15HU, TEN HIGH 1S-16HU, TEN HIGH 1S-17HU, TEN HIGH 1N-11HU, TEN HIGH 1N-12HU, AND TEN HIGH 1N-20HU.



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 AUGUST 14, 20 17  
REVISED SEPTEMBER 26, 2018  
OPERATORS WELL NO. TEN HIGH 1N-13HU  
API WELL NO. 47 - 051 - 01965  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8655P13HUR6.dwg  
SCALE TEN HIGH 1N 13HU Rev5  
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 X SHALLOW \_\_\_

LOCATION: GROUND = 1,321.50' 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 ADDITIONAL SHEETS 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 POINT PLEASANT ESTIMATED DEPTH TVD: 11,878' / TMD: 22,191'

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