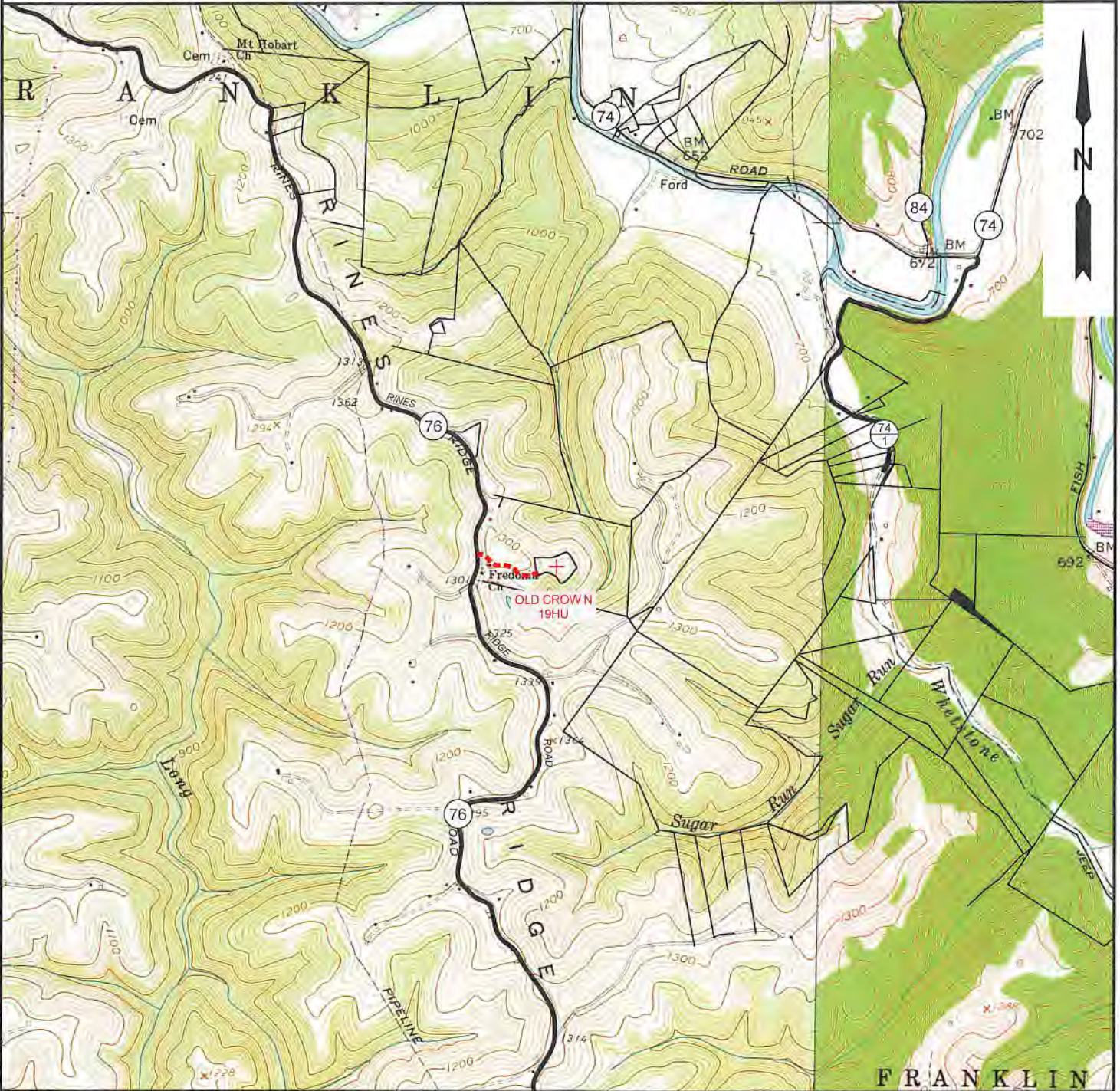


PROPOSED OLD CROWN - 19HU



NOTE: CLOSEST WATER PURVEYOR
GRANDVIEW - DOOLIN PUBLIC SERVICE DISTRICT
PROCTOR, WV

LAT: 39.7137712
LON: -80.8258327
LOCATED: S 37°39'00" W AT 29,404.13' FROM OLD CROWN - 19HU SURFACE LOCATION

RECEIVED
Office of Oil and Gas
FEB 26 2019

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www.slsurveys.com

TOPO SECTION:		OPERATOR:	
GLEN EASTON & POWHATAN POINT 7.5'		PREPARED FOR:	
COUNTY	DISTRICT	TUG HILL OPERATING, LLC	
MARSHALL	FRANKLIN	380 SOUTHPOINTE BLVD	
		SUITE 200	
		CANONSBURG, PA 15317	
DRAWN BY	JOB NO.	DATE	SCALE
K.G.M.	8796	01/23/19	1" = 2000'

WV Department of Environmental Protection
TUG HILL OPERATING

**OLD CROW N LEASE
UTICA UNIT - 484.05 AC ±
WELL 19HU
TUG HILL OPERATING**

LINE TABLE

LINE	BEARING	DISTANCE
L1	S 00°57' W	47.13'
L2	N 67°46' W	1296.13'
L3	S 83°32' W	993.12'

MND 20 AU
47-051-02011
MND 20 BU
47-051-02012



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

T.H. LONGITUDE 80°45'00"
B.H. LONGITUDE 80°45'00"

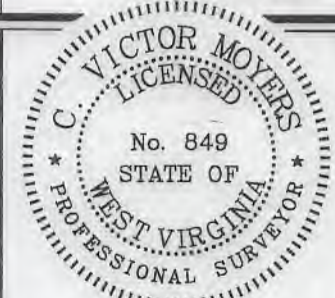
NAD'83 GRID NORTH

TAG	SURFACE OWNER	PARCEL	ACRES
A	JOHN SWIERKOS	5-16-25	79.04
B	DONNA VIVIAN YOHO - TOD	5-16-3	71.205
C	JOHN SWIERKOS	5-10-14	100.00
D	JOHN SWIERKOS	5-16-5	52.07
E	JOHN SWIERKOS	5-16-6	134.05
F	LOUIS AULENBAUCHER	5-10-22	6.461
G	JOHN PAUL SMITH, JR., ET AL	5-10-12.1	8.86
H	LOUIS DELBERT VAN SCYOC	5-10-10	24.50
I	HERBERT M. AULENBAUCHER, JR.	5-10-9	141.43
J	HERBERT M. AULENBAUCHER, JR.	5-10-3	225.50
K	FISH CREEK-WV DIVISION OF NATURAL RESOURCES	N/A	N/A
L	JASON J. STEED	5-9-13.2	135.61
M	WILLIAM A. PRASCIK, ET AL	5-10-2	52.00
N	EDWIN C. MILLER	5-9-20	51.64
O	EDWIN C. MILLER	5-10-1	49.96
P	JOHN F. KAZEMKA	5-9-27	4.02
Q	EDWIN C. MILLER	5-9-26	1.00
R	ALBERT F. KAZEMKA	5-9-22	0.50
S	ALBERT F. KAZEMKA	5-9-21	100' PCL
T	MARK S. STOCKLASK	5-9-17.1	1.187
U	MALCOMB H. BROWNLEE, ET AL	5-9-18	23,300 SQ FT
V	DENNIS P. CADMUS	5-9-42	5.42
W	MARK STEPHEN STOCKLASK	5-9-19	2.38
X	DELBERT K. & LINDA K. MYERS	5-9-23	7.00
Y	DELBERT K. & LINDA K. MYERS	5-9-25	14.49
Z	DENNIS P. CADMUS	5-9-24	21AC 49P
AA	DENNIS P. CADMUS	5-9-39	9.50
BB	KEITH D. DANIELS, ET UX	5-9-33	40.331
CC	LLOYD C. & JUDITH C. ARNOLD	5-9-41	93.00
DD	LLOYD C. & JUDITH C. ARNOLD	5-9-4	18.854
EE	SAMUEL L. CANTERBURY, ET UX	5-9-4.19	2.078
FF	SAMUEL L. CANTERBURY, ET UX	5-9-4.17	0.500
GG	PAUL G. BROWN	5-9-4.18	0.657
HH	PAUL G. BROWN	5-9-4.15	0.500
II	PAUL G. BROWN	5-9-4.14	0.500
JJ	DEBORAH S. MIDCAP	5-9-4.10	0.819
KK	LLOYD C. & JUDITH C. ARNOLD	5-9-35	47.00
LL	THOMAS MIDCAR, ET UX	5-9-4.8	0.376
MM	GEORGE F. MINOR, ET AL - LIFE	5-9-35.1	0.641
NN	JAMES R. LEGG ESTATE	5-9-2	23.141
OO	KENNETH E. WHITE, ET UX	5-9-2.2	0.359
PP	JEFFREY L. LEGG ESTATE	5-9-2.1	20.5
QQ	EDWIN C. MILLER	5-8-7	180.31

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P.S. 849 *C. Victor Moyers*

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'83 S.P.C.(FT) N. 488,123.26 E. 1,613,543.55
 NAD'83 GEO. LAT-(N) 39.778387 LONG-(W) 80.7763003
 NAD'83 UTM (M) N. 4,403,187.65 E. 520,295.28
LANDING POINT
 NAD'83 S.P.C.(FT) N. 469,685.3 E. 1,615,936.3
 NAD'83 GEO. LAT-(N) 39.782767 LONG-(W) 80.754568
 NAD'83 UTM (M) N. 4,403,675.7 E. 521,016.3
BOTTOM HOLE
 NAD'83 S.P.C.(FT) N. 481,888.1 E. 1,609,172.2
 NAD'83 GEO. LAT-(N) 39.815942 LONG-(W) 80.779251
 NAD'83 UTM (M) N. 4,407,352.2 E. 518,893.6



SCALE 1" = 2000' FILE NO. 8796P19HUR2.dwg
 OLD CROW NORTH 19HU REV4
 DATE FEBRUARY 22, 2019
 REVISED APRIL 25, MAY 14, 2019
 OPERATORS WELL NO. OLD CROW N-19HU
 API WELL NO. 47-051-02190
 NO. STATE COUNTY PERMIT

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

(+) 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 ADDITIONAL SHEETS)

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	57.50'	110.44'	N 50°53' E	56.85'
C2	74.82'	198.86'	N 21°05' E	74.38'
C3	174.43'	508.37'	N 02°06' W	173.58'
C4	374.35'	1231.73'	N 20°50' W	372.91'

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

**OLD CROW N LEASE
UTICA UNIT - 484.05 AC±
WELL 19HU
TUG HILL OPERATING**

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

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

NAD'83 S.P.C.(FT) N. 468,123.26 E. 1,613,543.55
NAD'83 GEO. LAT-(N) 39.778387 LONG-(W) 80.763003
NAD'83 UTM (M) N. 4,403,187.65 E. 520,295.26

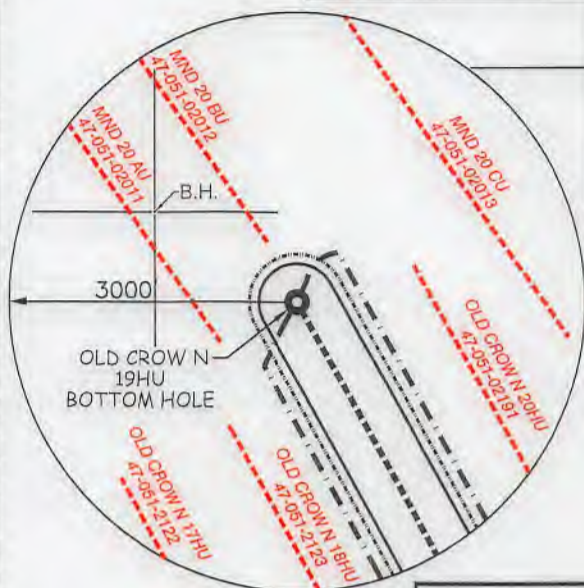
LANDING POINT

NAD'83 S.P.C.(FT) N. 469,685.3 E. 1,615,936.3
NAD'83 GEO. LAT-(N) 39.782767 LONG-(W) 80.754568
NAD'83 UTM (M) N. 4,403,675.7 E. 521,016.3

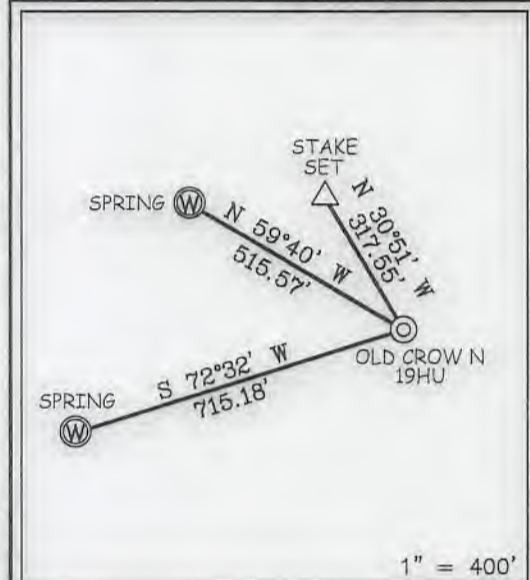
BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 481,866.1 E. 1,609,172.2
NAD'83 GEO. LAT-(N) 39.815942 LONG-(W) 80.779251
NAD'83 UTM (M) N. 4,407,352.2 E. 518,893.6

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
5-9-4.3	HARRY E. JR. & MICHELA KARR	1.471
5-9-4.5	DYLAN AULENBACHER	0.991
5-9-4.7	FRANCIS D. BARR, ET UX	0.481
5-9-4.9	THOMAS MIDCAP, ET UX	0.375
5-9-4.11	GARY PORTER	1.00
5-9-4.12	SAMUEL L. & DEBRA N. CANTERBURY	0.650
5-9-4.13	SAMUEL LEB CANTERBURY, ET UX	0.9284
5-9-4.16	SAMUEL L. & DEBRA N. CANTERBURY	0.517
5-9-13	KAREN M. KAZEMKA (N.K.A. KAREN M. WILSON)	3.69
5-9-14	DENNIS P. CADMUS	136 POLES
5-9-15	DENNIS P. CADMUS	3.85
5-9-16	SHEENA ROSE	1.65
5-9-17	DENNIS P. CADMUS	28.063
5-9-28	WILLIAM N. & DELORES E. MCDONOUGH - LIFE	4.01
5-9-29	JAMES M. & ROBERTA L. STERN	3.1777
5-9-30	MATTHEW B. GRIFFITH	2.708
5-9-30.1	DAVID JR. & MELISSA LOVE	2.518
5-9-30.3	MATTHEW B. GRIFFITH	0.82
5-9-32	MILLARD JUNIOR BONNETTE, ET UX	2.321
5-9-32.3	RUBY M. HENRY ESTATE	0.552
5-9-32.4	DAVID D. & CHRISTINE S. DANIELS	1.025
5-9-32.5	GARNET D. MIDCAP	270x390'
5-9-32.8	TIMOTHY Q. HOYT, ET UX	0.711
5-9-32.10	TIMOTHY Q. HOYT, ET UX	0.588
5-9-32.11	TIMOTHY Q. HOYT, ET UX	1.717
5-9-32.12	JOHN DRAKE ALBAUGH	1.09
5-9-33.1	KEITH D. & BEVERLY A. DANIELS	1.00
5-9-33.2	KEITH D. & BEVERLY A. DANIELS	1.534
5-9-33.4	DAVID D. & CHRISTINE S. DANIELS	1.025
5-9-36	FRANK T. & ANNA M. WALKER	1.55
5-9-37	FRANK T. & ANNA M. WALKER	10.857
5-9-38	SHIRLEY A. HILL ESTATE	3.331
5-9-38.10	ROBERT S. COWGILL	0.920
5-9-40	SHIRLEY A. HILL ESTATE	3.92
5-10-4.2	JACK E. RECTOR	2.887
5-10-4.3	ANTHONY A. & KAREN L. ANKROM	5.697
5-10-4.7	LINDA BECHTOLD, ET AL	2.110
5-10-4.8	SAMUEL FRANKLIN	1.8808
5-10-4.9	JAMES E. KAREN M. WILSON	0.8692
5-10-4.10	SHEENA ROSE	0.803
5-10-4.11	JASON E. BONNETTE	1.50
5-10-11	JOSEPH LEE CROW	LOT
5-10-19	BRADLEY L. & CONNIE L. HUBBARD	3.209
5-10-20	LOUIS AULENBAUCHER	3.554
5-10-21	LOUIS AULENBAUCHER	3.667



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 ARE 1"=2000'
- PROPOSED LATERAL OR TOP HOLE OF OLD CROW N-19HU (47-051-02190) IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF EXISTING WELLS BRYAN N 13HU (47-051-02030), BRYAN N 14HU (47-051-02031), OLD CROW N-17HU (47-051-02122), OLD CROW N-18HU (47-051-02123), MND20 AU (47-051-02011), MND20 BU (47-051-02012), MND20 CU (47-051-02013), MND20 DU (47-051-02014) & PROPOSED OLD CROW N-20HU (47-051-02191).
- THE ASSESSMENT OF THE 1/10 ACRE LOT, OWNED BY JASON J. STEED AND DESCRIBED AS THE SECOND PARCEL IN DEED BOOK 643 PAGE 319 AND CORRECTIVE DEED 643 PAGE 300, IS NOT CURRENTLY ACCOUNTED FOR WITHIN THE 135.61 ACRE ASSESSMENT OF SURFACE TAX MAP 5-9-13.2



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 FEBRUARY 22, 20 19
REVISED APRIL 25, MAY 14, 20 19
OPERATORS WELL NO. OLD CROW N-19HU
API WELL NO. 47-051-02190 *HGA*
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8796P19HUR2.dwg
OLD CROW NORTH 19HU REV4
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 = 1,286.80' ELEVATION PROPOSED = 1,264.99' WATERSHED TRIBUTARY OF FISH CREEK (HUC-10)
DISTRICT FRANKLIN COUNTY MARSHALL QUADRANGLE POWHATAN POINT 7.5'

SURFACE OWNER DONNA VIVIAN YOHO (TOD) GARY LANCE YOHO ACREAGE 71.205±
ROYALTY OWNER DONNA VIVIAN YOHO, ET AL - SEE ADDITIONAL SHEETS ACREAGE 71.205±

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: 11,547' / TMD: 26,335'

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 ADDRESS 5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

T.H. LONGITUDE 80°45'00"
B.H. LONGITUDE 80°45'00"
4,838' T.H.
6,335' B.H.

**OLD CROW N LEASE
UTICA UNIT - 484.05 AC±
WELL 19HU
TUG HILL OPERATING**



NO.	Lease ID	Tag	Parcel	Grantor, Lessor, Etc.	Deed Book/Page
1	10*21468	A	5-16-25	JOHN A SWIERKOS	953 317
2	10*19340	B	5-16-3	DOMINIA V YOHIO	865 407
3	10*14493	C	5-16-14	CHESTNUT HOLDINGS INC	836 119
4	10*14919	D	5-16-5	CHESTNUT HOLDINGS INC	836 117
5	10*12468	E	5-16-6	JOHN A SWIERKOS	953 317
6	10*18336	F	5-16-22	LOUIS ALLENBACHER, et al	932 468
7	10*21468	F	5-16-22	JOHN A SWIERKOS	953 317
8	10*21468	G	5-16-12.1	JOHN A SWIERKOS, et al	953 317
9	10*47051.261.1	G	5-10-12.1	WILLIAM HUBBARD	882 538
10	10*47051.261.2	G	5-10-12.1	BONNIE GZELIC	882 539
11	10*47051.261.3	G	5-10-12.1	JOHN P SMITH JR	882 542
12	10*47051.261.4	G	5-10-12.1	BRADLEY L HUBBARD AND CONNIE L HUBBARD	898 573
13	10*21468	H	5-10-10	JOHN A SWIERKOS, et al	953 317
14	10*22295	H	5-10-10	KACHEL D STRANDER	822 210
15	10*22349	H	5-10-10	SHARON G VAN SCYOC	822 204
16	10*26004	H	5-10-10	VAN SCYOC LOUIS ET UX	697 461
17	10*19249	I	5-10-9	HERBERT MAULENBACHER	914 551
18	10*14916	J	5-10-3	CHESTNUT HOLDINGS INC	836 115
19	009196000	K	FISH CREEK	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	865 558
20	10*47051.170.0	L	5-9-13.2	JASON J STEED	865 344
21	10*47051.263.0	M	5-10-2	WILLIAM PRASICK ET AL	879 802
22	10*47051.127.1	N	5-9-20	EDWIN C MILLER AND KIMBERLY ANN MILLER	895 61
23	10*18970	O	5-10-1	DONALD F BERISFORD, et al	941 267
24	10*19036	O	5-10-1	GAROLD W HOWARD JR	813 91
25	10*19037	O	5-10-1	MIVELLE SEELYE	813 116
26	10*19039	O	5-10-1	RALPH B RUSSELL MARY ANN RUSSELL	813 106
27	10*19040	O	5-10-1	RUTHANNE RUSSELL TOPPING	813 79
28	10*19041	O	5-10-1	CHERYL H HILL	813 101
29	10*19043	O	5-10-1	JACK R BERISFORD LINDA JO BERISFORD	813 96
30	10*19045	O	5-10-1	JOHN W MURDOCK HELEN CAROLINA MURDOCK	814 327
31	10*19049	O	5-10-1	RUTH ANN FERRIS	814 313
32	10*19050	O	5-10-1	LARRY R JEFFERSON CATHY L JEFFERSON	814 473
33	10*19059	O	5-10-1	MARY VANESSA GILSON	815 464
34	10*19060	O	5-10-1	ALVISA JORDAN	815 135
35	10*19503	O	5-10-1	FRANK DALE BERISFORD AND KATHLEEN BERISFORD	942 625
36	10*19610	O	5-10-1	BRYAN BERISFORD AND JEAN MARIE COSTA	944 207
37	10*22637	O	5-10-1	HOWARD T CONNER AND VANETTE CONNER	968 219
38	10*22639	O	5-10-1	EDWIN MARK KHABENSHUE	968 247
39	10*22640	O	5-10-1	JESSICA M CREMEANS	984 532
40	10*22641	O	5-10-1	CHRISTOPHER STALEY & MICHAEL ANNE STALEY	968 221
41	10*22772	O	5-10-1	BILLIE J STALEY AND APRIL STALEY	970 5
42	10*23040	O	5-10-1	MARY L WHITTINGTON	977 300
43	10*23735	O	5-10-1	GRAYVILLE CALVARY UNITED METHODIST	1011 550
44	10*24025	O	5-10-1	MICHAEL L STEWART	1020 353
45	10*24261	O	5-10-1	GREG STEWART	1020 351
46	10*24514	O	5-10-1	GAYLE F BRITTON TRUST	1026 253
47	10*24515	O	5-10-1	AARON M BROWN	1024 269
48	10*24525	O	5-10-1	DAVID E BOWSER	1027 385
49	10*24554	O	5-10-1	JOSH D AND LAURIN K HALE	1024 254
50	10*24555	O	5-10-1	DAVID W HALE JR	1024 257
51	10*24556	O	5-10-1	BETTY L KEAN	1004 263
52	10*47051.127.1	O	5-10-1	EDWIN C MILLER AND KIMBERLY ANN MILLER	895 61
53	10*47051.127.2	O	5-10-1	JANE S BLANEY	898 547
54	10*47051.127.3	O	5-10-1	JOANNE SCHALL FOSTER	895 29
55	10*47051.127.4	O	5-10-1	RAYMOND E SCHALL	898 590
56	10*47051.127.5	O	5-10-1	FIRST CHRISTIAN CHURCH OF MOUNDSVILLE BY ROGER FRANCIS AND ROBERT ALBERT TRUSTEES	898 600
57	10*47051.127.6	O	5-10-1	BARBARA GODWIN AND CHARLES RODNEY GODWIN	902 419
58	PENNING	O	5-10-1	FORREST D MILLER	1029 581
59	10*25617	O	5-10-1	GLEN DALE UNITED METHODIST CHURCH	1031 610
60	10*17512	P	5-9-27	BONNIE LOU POSTLEWAIT, et al	917 68
61	10*17530	P	5-9-27	WOODROW N WARD AND HILDA A WARD	916 208
62	10*17916	P	5-9-27	MARY E BISHOP	927 167
63	10*18270	P	5-9-27	GERALD L BISHOP III	943 10
64	10*18796	P	5-9-27	DWG OIL & GAS ACQUISITIONS LLC	938 476
65	10*18836	P	5-9-27	JOHN W MIDCAP AND ELOA FAYE MIDCAP	941 450
66	10*19572	P	5-9-27	DOUGLAS R BISHOP	943 12
67	10*21478	P	5-9-27	CHILDRENS HOME SOCIETY OF WEST VIRGINIA WHEELING SOCIETY FOR CRIPPLED CHILDREN JAY E PRAGER PRESIDENT	960 173 960 33
68	10*21937	P	5-9-27	CARLA JO ALLEN AND KENNETH ALLEN	916 129
69	10*22044	P	5-9-27	MICHAEL A BISHOP	960 421
70	10*22266	P	5-9-27	NOAH BAKER AND ALISA BAKER	962 200
71	10*22326	P	5-9-27	RACHEL SONDA AND SCOTT SONDA	962 532
72	10*22407	P	5-9-27	BRADLEY MURPHY	962 575
73	10*22430	P	5-9-27	DEBORAH VANVRANKEN	964 510
74	10*22492	P	5-9-27	FAITH MARIE FREESTONE AND ERIC FREESTONE	972 50
75	10*22547	P	5-9-27	LAWRENCE EDWARD MURPHY AND JOAN MARIE MURPHY	966 628
76	10*22606	P	5-9-27	ROBERT B MURPHY AND LINDA MURPHY	966 469
77	10*22636	P	5-9-27	CHANDA WILSON AND DANIEL WILSON	968 226
78	10*23055	P	5-9-27	DEAN S CARR	977 364
79	10*23056	P	5-9-27	MICHAEL A MURPHY	1009 98
80	10*24888	P	5-9-27	ARTHUR LEE MILLER ET AL	1027 187
81	10*24984	P	5-9-27	JONATHAN BAKER	1027 558
82	10*25488	P	5-9-27	SANDRA AKA KATHERINE S PARDINI	1031 544
83	0090332002	P	5-9-27	LORETTA JEAN RIGGLE ET VIR	860 538
84	0090332003	P	5-9-27	PATTY BERISFORD ET VIR	860 555
85	0090332007	P	5-9-27	ROBERT RANDOLPH WOODBURN ET UX	860 568
86	10*17512	Q	5-9-26	BONNIE LOU POSTLEWAIT, et al	917 68
87	10*17530	Q	5-9-26	WOODROW N WARD AND HILDA A WARD	916 208
88	10*17600	Q	5-9-26	KENNETH ALLEN AND CARLA JO ALLEN	916 129
89	10*17916	Q	5-9-26	MARY E BISHOP	927 167
90	10*18270	Q	5-9-26	GERALD L BISHOP III	943 10
91	10*18796	Q	5-9-26	DWG OIL & GAS ACQUISITIONS LLC	938 476
92	10*19572	Q	5-9-26	DOUGLAS R BISHOP	943 12
93	10*21478	Q	5-9-26	CHILDRENS HOME SOCIETY OF WEST VIRGINIA WHEELING SOCIETY FOR CRIPPLED CHILDREN JAY E PRAGER PRESIDENT	960 173 960 33
94	10*21937	Q	5-9-26	MICHAEL A BISHOP	960 421
95	10*22044	Q	5-9-26	DOUGLAS R BISHOP	961 417
96	10*22266	Q	5-9-26	NOAH BAKER AND ALISA BAKER	962 200
97	10*22326	Q	5-9-26	RACHEL SONDA AND SCOTT SONDA	962 532
98	10*22407	Q	5-9-26	BRADLEY MURPHY	962 575
99	10*22430	Q	5-9-26	DEBORAH VANVRANKEN	964 510
100	10*22492	Q	5-9-26	FAITH MARIE FREESTONE AND ERIC FREESTONE	972 50

NO.	Lease ID	Tag	Parcel	Grantor, Lessor, Etc.	Deed Book/Page
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102	10*22547	Q	5-9-26	LAWRENCE EDWARD MURPHY AND JOAN MARIE MURPHY	966 628
103	10*22606	Q	5-9-26	ROBERT B MURPHY AND LINDA MURPHY	966 469
104	10*22636	Q	5-9-26	CHANDA WILSON AND DANIEL WILSON	968 226
105	10*23035	Q	5-9-26	DEAN S CARR	977 364
106	10*23508	Q	5-9-26	MICHAEL A MURPHY	1009 98
107	10*24888	Q	5-9-26	ARTHUR LEE MILLER ET AL	1027 187
108	10*24984	Q	5-9-26	JONATHAN BAKER	1027 558
109	10*25488	Q	5-9-26	SANDRA AKA KATHERINE S PARDINI	1031 544
110	10*47051.127.1	Q	5-9-26	EDWIN C MILLER AND KIMBERLY ANN MILLER	895 61
111	0090332002	Q	5-9-26	LORETTA JEAN RIGGLE ET VIR	860 538
112	0090332003	Q	5-9-26	PATTY BERISFORD ET VIR	860 555
113	0090332007	Q	5-9-26	ROBERT RANDOLPH WOODBURN ET UX	860 568
114	10*17512	R	5-9-22	BONNIE LOU POSTLEWAIT, et al	917 68
115	10*17530	R	5-9-22	WOODROW N WARD AND HILDA A WARD	916 208
116	10*17600	R	5-9-22	KENNETH ALLEN AND CARLA JO ALLEN	916 129
117	10*17916	R	5-9-22	MARY E BISHOP	927 167
118	10*18270	R	5-9-22	GERALD L BISHOP III	943 10
119	10*18796	R	5-9-22	DWG OIL & GAS ACQUISITIONS LLC	938 476
120	10*19572	R	5-9-22	DOUGLAS R BISHOP	943 12
121	10*19572	R	5-9-22	DOUGLAS R BISHOP	943 12
122	10*21478	R	5-9-22	CHILDRENS HOME SOCIETY OF WEST VIRGINIA WHEELING SOCIETY FOR CRIPPLED CHILDREN JAY E PRAGER PRESIDENT	960 173 960 33
123	10*21937	R	5-9-22	CARLA JO ALLEN AND KENNETH ALLEN	916 129
124	10*22044	R	5-9-22	MICHAEL A BISHOP	960 421
125	10*22266	R	5-9-22	NOAH BAKER AND ALISA BAKER	962 200
126	10*22326	R	5-9-22	RACHEL SONDA AND SCOTT SONDA	962 532
127	10*22407	R	5-9-22	BRADLEY MURPHY	962 575
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132	10*22636	R	5-9-22	CHANDA WILSON AND DANIEL WILSON	968 226
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135	10*24888	R	5-9-22	ARTHUR LEE MILLER ET AL	1027 187
136	10*24984	R	5-9-22	JONATHAN BAKER	1027 558
137	10*25488	R	5-9-22	SANDRA AKA KATHERINE S PARDINI	1031 544
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140	0090332007	R	5-9-22	ROBERT RANDOLPH WOODBURN ET UX	860 568
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142	10*21414	S	5-9-21	CHARLES R STOCKTON AND BETTY M HUDSON	959 310
143	10*21473	S	5-9-21	MARY E BISHOP	957 232
144	10*21475	S	5-9-21	WOODROW N WARD AND HILDA A WARD	957 124
145	10*21478	S	5-9-21	CHILDRENS HOME SOCIETY OF WEST VIRGINIA	960 173
146	10*21547	S	5-9-21	GARY A MILLER AND MARCELLE T MILLER	952 370
147	10*21548	S	5-9-21	JEANNE M MILLER	952 386
148	10*21608	S	5-9-21	BONNIE LOU POSTLEWAIT	959 313
149	10*21719	S	5-9-21	ROBERT A MILLER	962 389
150	10*21835	S	5-9-21	KENNETH ALLEN AND CARLA JO ALLEN	962 572
151	10*21937	S	5-9-21	WHEELING SOCIETY FOR CRIPPLED CHILDREN JAY E PRAGER PRESIDENT	960 33
152	10*22044	S	5-9-21	MICHAEL A BISHOP	960 421
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154	10*22266	S	5-9-21	NOAH BAKER AND ALISA BAKER	962 200
155	10*22326	S	5-9-21	RACHEL SONDA AND SCOTT SONDA	962 532
156	10*22407	S	5-9-21	BRADLEY MURPHY	962 575
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165	10*24888	S	5-9-21	ARTHUR LEE MILLER ET AL	1027 187
166	10*24984	S	5-9-21	JONATHAN BAKER	1027 558
167	10*25488	S	5-9-21	SANDRA AKA KATHERINE S PARDINI	1031 544
168	10*25488	S	5-9-21	SANDRA AKA KATHERINE S PARDINI	1031 544
169	0090332001	S	5-9-21	WILLIAM E MILLER AND KAREN S MILLER	858 255
170	0090332002	S	5-9-21	LORETTA JEAN RIGGLE ET VIR	860 538
171	0090332003	S	5-9-21	PATTY BERISFORD ET VIR	860 555
172	0090332007	S	5-9-21	ROBERT RANDOLPH WOODBURN ET UX	860 568
173	10*18796	T	5-9-17.1	DWG OIL & GAS ACQUISITIONS LLC, et al</	

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201	090932001	T	5-9-17-1	WILLIAM E MILLER AND KAREN S MILLER	859 256
202	090932002	T	5-9-17-1	LORETTA JEAN RIGGLE ET VIR	860 538
203	090932003	T	5-9-17-1	PATTY BERISFORD ET VIR	860 555
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207	10*21473	U	5-9-18	MARY E BISHOP	957 232
208	10*21475	U	5-9-18	WOODROW N WARD AND HILDA A WARD	957 124
209	10*21478	U	5-9-18	CHILDRENS HOME SOCIETY OF WEST VIRGINIA	960 173
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213	10*21719	U	5-9-18	ROBERT A MILLER	952 389
214	10*21835	U	5-9-18	KENNETH ALLEN AND CARLA JO ALLEN	962 572
215	10*21937	U	5-9-18	WHEELING SOCIETY FOR CRIPPLED CHILDREN JAY E PRAGER PRESIDENT	960 33
216	10*22044	U	5-9-18	MICHAEL A BISHOP	960 421
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218	10*22296	U	5-9-18	NOAH BAKER AND ALISA BAKER	962 200
219	10*22326	U	5-9-18	RACHEL SONDA AND SCOTT SONDA	962 532
220	10*22407	U	5-9-18	BRADLEY MURPHY	962 575
221	10*22430	U	5-9-18	DEBORAH VANVRANKEN	964 510
222	10*22451	U	5-9-18	GERALD L BISHOP III	964 31
223	10*22452	U	5-9-18	FAITH MARIE FREESTONE AND ERIC FREESTONE	972 50
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225	10*22566	U	5-9-18	KENNETH A MILLER	964 233
226	10*22606	U	5-9-18	ROBERT B MURPHY AND LINDA MURPHY	966 469
227	10*22636	U	5-9-18	CHANDA WILSON AND DANIEL WILSON	968 226
228	10*23035	U	5-9-18	DEAN S CARR	977 364
229	10*23508	U	5-9-18	MICHAEL A MURPHY	1009 98
230	10*24888	U	5-9-18	ARTHUR LEE MILLER ET AL	1027 187
231	10*24984	U	5-9-18	JONATHAN BAKER	1027 558
232	10*25488	U	5-9-18	SANDRA AKA KATHERINE S PARDINI	1031 544
233	090932001	U	5-9-18	WILLIAM E MILLER AND KAREN S MILLER	858 256
234	090932002	U	5-9-18	LORETTA JEAN RIGGLE ET VIR	860 538
235	090932003	U	5-9-18	PATTY BERISFORD ET VIR	860 555
236	090932007	U	5-9-18	ROBERT RANDOLPH WOODBURN ET UX	860 568
237	10*18796	V	5-9-42	DWG OIL & GAS ACQUISITIONS LLC, et al	938 476
238	10*21414	V	5-9-42	CHARLES R STOCKTON AND BETTY M HUDSON	959 310
239	10*21473	V	5-9-42	MARY E BISHOP	957 232
240	10*21475	V	5-9-42	WOODROW N WARD AND HILDA A WARD	957 124
241	10*21478	V	5-9-42	CHILDRENS HOME SOCIETY OF WEST VIRGINIA	960 173
242	10*21547	V	5-9-42	GARY A MILLER AND MARCELLE T MILLER	952 370
243	10*21548	V	5-9-42	JEANNE M MILLER	952 386
244	10*21608	V	5-9-42	BONNIE LOU POSTLEWAIT	959 313
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246	10*21835	V	5-9-42	KENNETH ALLEN AND CARLA JO ALLEN	962 572
247	10*21937	V	5-9-42	WHEELING SOCIETY FOR CRIPPLED CHILDREN JAY E PRAGER PRESIDENT	960 33
248	10*22044	V	5-9-42	MICHAEL A BISHOP	960 421
249	10*22045	V	5-9-42	DOUGLAS R BISHOP	961 417
250	10*22296	V	5-9-42	NOAH BAKER AND ALISA BAKER	962 200
251	10*22326	V	5-9-42	RACHEL SONDA AND SCOTT SONDA	962 532
252	10*22407	V	5-9-42	BRADLEY MURPHY	962 575
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255	10*22452	V	5-9-42	FAITH MARIE FREESTONE AND ERIC FREESTONE	972 50
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257	10*22566	V	5-9-42	KENNETH A MILLER	964 233
258	10*22606	V	5-9-42	ROBERT B MURPHY AND LINDA MURPHY	966 469
259	10*22636	V	5-9-42	CHANDA WILSON AND DANIEL WILSON	968 226
260	10*23035	V	5-9-42	DEAN S CARR	977 364
261	10*23508	V	5-9-42	MICHAEL A MURPHY	1009 98
262	10*24888	V	5-9-42	ARTHUR LEE MILLER ET AL	1027 187
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264	10*25488	V	5-9-42	SANDRA AKA KATHERINE S PARDINI	1031 544
265	090932001	V	5-9-42	WILLIAM E MILLER AND KAREN S MILLER	858 256
266	090932002	V	5-9-42	LORETTA JEAN RIGGLE ET VIR	860 538
267	090932003	V	5-9-42	PATTY BERISFORD ET VIR	860 555
268	090932007	V	5-9-42	ROBERT RANDOLPH WOODBURN ET UX	860 568
269	10*18796	W	5-9-19	DWG OIL & GAS ACQUISITIONS LLC, et al	938 476
270	10*21414	W	5-9-19	CHARLES R STOCKTON AND BETTY M HUDSON	959 310
271	10*21473	W	5-9-19	MARY E BISHOP	957 232
272	10*21475	W	5-9-19	WOODROW N WARD AND HILDA A WARD	957 124
273	10*21478	W	5-9-19	CHILDRENS HOME SOCIETY OF WEST VIRGINIA	960 173
274	10*21547	W	5-9-19	GARY A MILLER AND MARCELLE T MILLER	952 370
275	10*21548	W	5-9-19	JEANNE M MILLER	952 386
276	10*21608	W	5-9-19	BONNIE LOU POSTLEWAIT	959 313
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278	10*21835	W	5-9-19	KENNETH ALLEN AND CARLA JO ALLEN	962 572
279	10*21937	W	5-9-19	WHEELING SOCIETY FOR CRIPPLED CHILDREN JAY E PRAGER PRESIDENT	960 33
280	10*22044	W	5-9-19	MICHAEL A BISHOP	960 421
281	10*22045	W	5-9-19	DOUGLAS R BISHOP	961 417
282	10*22296	W	5-9-19	NOAH BAKER AND ALISA BAKER	962 200
283	10*22326	W	5-9-19	RACHEL SONDA AND SCOTT SONDA	962 532
284	10*22407	W	5-9-19	BRADLEY MURPHY	962 575
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287	10*22452	W	5-9-19	FAITH MARIE FREESTONE AND ERIC FREESTONE	972 50
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290	10*22606	W	5-9-19	ROBERT B MURPHY AND LINDA MURPHY	966 469
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292	10*23035	W	5-9-19	DEAN S CARR	977 364
293	10*23508	W	5-9-19	MICHAEL A MURPHY	1009 98
294	10*24888	W	5-9-19	ARTHUR LEE MILLER ET AL	1027 187
295	10*24984	W	5-9-19	JONATHAN BAKER	1027 558
296	10*25488	W	5-9-19	SANDRA AKA KATHERINE S PARDINI	1031 544
297	090932001	W	5-9-19	WILLIAM E MILLER AND KAREN S MILLER	858 256
298	090932002	W	5-9-19	LORETTA JEAN RIGGLE ET VIR	860 538
299	090932003	W	5-9-19	PATTY BERISFORD ET VIR	860 555
300	090932007	W	5-9-19	ROBERT RANDOLPH WOODBURN ET UX	860 568

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303	10*22296	X	5-9-23	NOAH BAKER AND ALISA BAKER	962 200
304	10*22326	X	5-9-23	RACHEL SONDA AND SCOTT SONDA	962 532
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313	10*24888	X	5-9-23	ARTHUR LEE MILLER ET AL	1027 187
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315	10*25488	X	5-9-23	LINDA KAY MYERS	1030 119
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321	10*17512	Y	5-9-25	WOODROW N WARD AND HILDA A WARD	916 206
322	10*17600	Y	5-9-25	CARLA JO ALLEN AND KENNETH ALLEN	916 128
323	10*17512	Y	5-9-25	MARY E BISHOP	927 167
324	10*18270	Y	5-9-25	GERALD L BISHOP III	943 10
325	10*18796	Y	5-9-25	DWG OIL & GAS ACQUISITIONS LLC	938 476
326	10*19572	Y	5-9-25	DOUGLAS R BISHOP	943 12
327	10*21478	Y	5-9-25	CHILDRENS HOME SOCIETY OF WEST VIRGINIA	960 173
328	10*21937	Y	5-9-25	WHEELING SOCIETY FOR CRIPPLED CHILDREN JAY E PRAGER PRESIDENT	960 33
329	10*22044	Y	5-9-25	MICHAEL A BISHOP	960 421
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335	10*22547	Y	5-9-25	LAWRENCE EDWARD MURPHY AND JOAN MARIE MURPHY	966 628
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337	10*22636	Y	5-9-25	CHANDA WILSON AND DANIEL WILSON	968 226
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340	10*24888	Y	5-9-25	ARTHUR LEE MILLER ET AL	1027 187
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343	10*25488	Y	5-9-25	SANDRA AKA KATHERINE S PARDINI	1031 544
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346	090932007	Y	5-9-25	ROBERT RANDOLPH WOODBURN ET UX	860 568
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348	CVX935272	Z	5-9-24	PAUL PARSONS ET UX	853 430
349	CVX935276	Z	5-9-24	SHARON LYN RUSSELL	853 422
350	CVX935969	Z	5-9-24	TIMOTHY HUFF ET UX	864 47
351	CVX936054	Z	5-9-24	LLOYD C ARNOLD ET UX	864 39
352	CVX936054	Z	5-9-24	MARY JO CRONIN	854 43
353	CVX936058	Z	5-9-24	RICHARD KURPIET UX	853 594
354	CVX936061	Z	5-9-24	CLARA MAE CLIFTON	853 426
355	CVX936092	Z	5-9-24	GEORGE EDWARDS ET UX	853 419
356	CVX936112	Z	5-9-24	DONNA FAE KYLE	853 448
357	CVX936113	Z	5-9-24	JUDITH MAY CONNER	853 445
358	CVX866958	Z	5-9-24	ANITA L SLOUGH ET AL	696 7
359	CVX866959	Z	5-9-24	PAUL SCHEIBELHOOD ET AL	695 629
360	CVX935271	AA	5-9-30	CHARLES W. MILLER, et al	853 59
361	CVX935273	AA	5-9-30	PAUL PARSONS ET UX	853 430
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363	CVX935969	AA	5-9-30	TIMOTHY HUFF ET UX	864 47
364	CVX936053	AA	5-9-30	LLOYD C ARNOLD ET UX	864 39
365	CVX936054	AA	5-9-30	MARY JO CRONIN	854 43
366	CVX936058	AA	5-9-30	RICHARD KURPIET UX	863 594
367	CVX936061	AA	5-9-30	CLARA MAE CLIFTON	853 426
368	CVX936092	AA	5-9-30	GEORGE EDWARDS ET UX	853 419
369	CVX936112	AA	5-9-30	DONNA FAE KYLE	853 448
370	CVX936113	AA	5-9-30	JUDITH MAY CONNER	853 445
371	CVX866958	AA	5-9-30	ANITA L SLOUGH ET AL	696 7
372	CVX866959	AA	5-9-30	PAUL SCHEIBELHOOD ET AL	695 629
373	PENDING	BB	5-9-35	STONE HILL MINERALS HOLDINGS	1034 626
374	10*26046	CC	5-9-41	ARNOLD LLOYD C ET UX	915 628
375	CVX9				

**OLD CROW N LEASE
UTICA UNIT - 484.05 AC±
WELL 19HU
TUG HILL OPERATING**



NO.	Lease ID	Tag	Parcel	Grantor, Lessor, Etc.	Deed Book/Page
403	CVX935969	MM	5-9-35.1	TIMOTHY HUFF ET UX	864 47
404	CVX936053	MM	5-9-35.1	LLOYD C. ARNOLD ET UX	864 39
405	CVX936054	MM	5-9-35.1	MARY JO CRONIN	864 43
406	CVX936058	MM	5-9-35.1	RICHARD KURPILET UX	863 594
407	CVX936061	MM	5-9-35.1	CLARA MAE CLIFTON	853 426
408	CVX936062	MM	5-9-35.1	GEORGE EDWARDS ET UX	853 418
409	CVX936112	MM	5-9-35.1	DONNA FAE KYLE	853 449
410	CVX936113	MM	5-9-35.1	JUDITH MAY CONNER	853 445
411	CVX866958	MM	5-9-35.1	ANITA L. SLOUGH ET AL	696 7
412	CVX866959	MM	5-9-35.1	PAUL SCHEIBELHOOD ET AL	695 629
413	Q081124002	NN	5-9-2	JAMES REDMAN LEGG II ET AL	879 580
414	Q080154002	OO	5-9-2.2	KENNETH EUGENE WHITE AND LESLIE A WHITE	879 577
415	Q081123002	PP	5-9-2.1	JEFFREY L LEGG	879 575
416	10*21546	QQ	5-8-7	EDWIN C MILLER AND KIMBERLY ANN MILLER	957 257

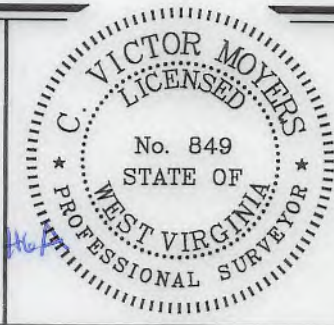
FILE NO. 8796P19HUR2.dwg
OLD CROW NORTH 19HU REV4

DATE FEBRUARY 22, 20 19

REVISED APRIL 25, MAY 14, 20 19

OPERATORS WELL NO. OLD CROW N-19HU

API WELL NO. 47 — 051 — 02190
STATE COUNTY PERMIT



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



P.S. C. Victor Moyers
849

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