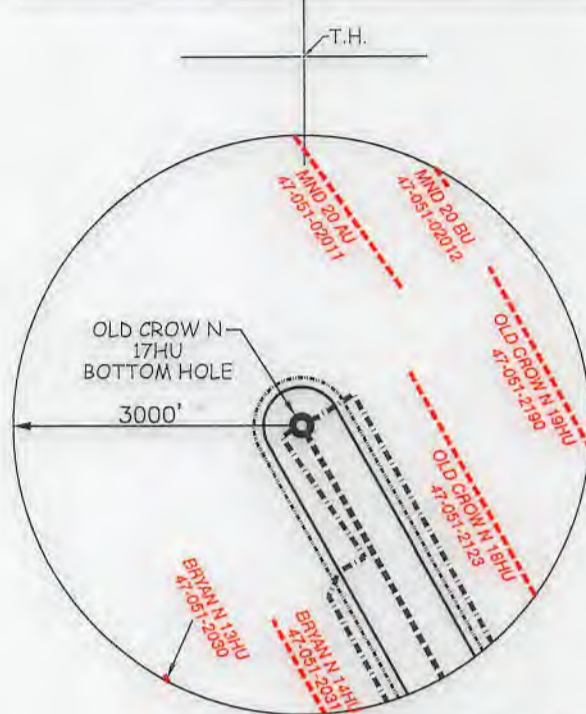


**OLD CROW N LEASE
UTICA UNIT - 394.85 AC±
WELL 17HU
TUG HILL OPERATING**

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. 468,139.24 E. 1,613,525.64
 NAD'83 GEO. LAT-(N) 39.778430 LONG-(W) 80.763067
 NAD'83 UTM (M) N. 4,403,192.43 E. 520,289.72
LANDING POINT
 NAD'83 S.P.C.(FT) N. 468,471.3 E. 1,613,749.9
 NAD'83 GEO. LAT-(N) 39.779350 LONG-(W) 80.762286
 NAD'83 UTM (M) N. 4,403,294.43 E. 520,356.4
BOTTOM HOLE
 NAD'83 S.P.C.(FT) N. 480,021.3 E. 1,607,835.8
 NAD'83 GEO. LAT-(N) 39.810806 LONG-(W) 80.785694
 NAD'83 UTM (M) N. 4,406,780.8 E. 518,843.5

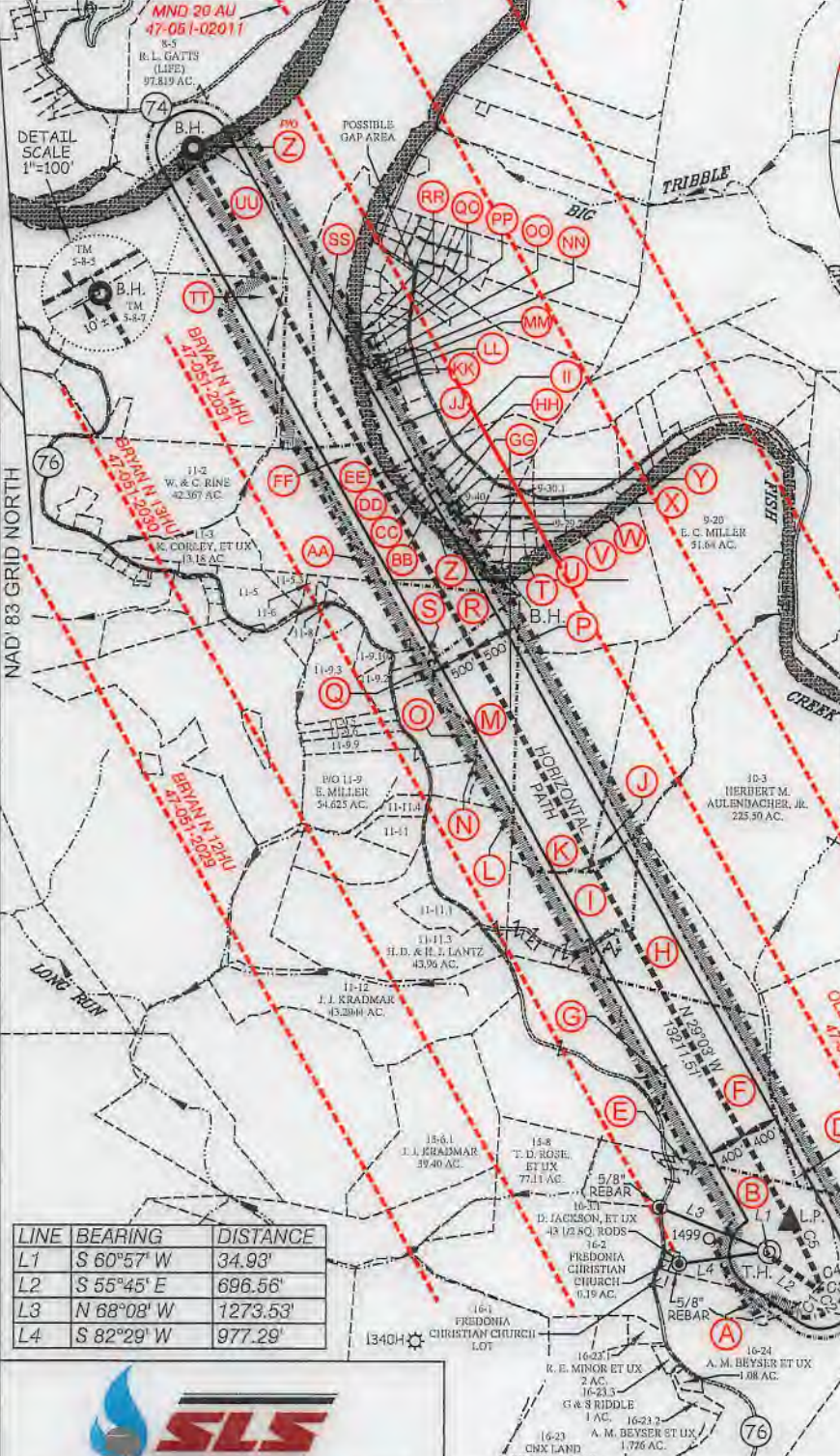
TAG	SURFACE OWNER	PARCEL	ACRES
A	JOHN SWIERKOS	5-16-25	79.04
B	DONNA VIVIAN YOHO - TOD	5-16-3	71.205
C	JOHN SWIERKOS	5-16-5	52.07
D	JOHN SWIERKOS	5-10-14	100.00
E	JIMMY OSTRANDER, SR., ET UX	5-16-3.2	1.435
F	PAUL ANDREW & DEBRA A. RINE	5-10-15	120.80
G	DONALD T. MILLER	5-10-15.1	2.095
H	TIMOTHY SR. & LINDA MCGINNIS	5-10-16	30.87
I	TRAVIS A. & BREA M. WAYT	5-10-16.4	30.87
J	WILLIAM A. PRASCIK, ET AL.	5-10-2	52.00
K	ALVIN A. YODER	5-10-17	57.28
L	WESLEY R. BRYAN & WESLEY R. BRYAN, II	5-11-11.2	25.03
M	ALVIN A. YODER	5-11-10	31.91
N	JACK S. HUGGINS, ET UX	5-11-9.4	4.129
O	JACK SHEPARD HUGGINS, JR., ET AL	5-11-9.1	10.92
P	EDWIN C. MILLER	5-10-1	49.96
Q	SEAN F. MOORE	5-11-9.7	2.03
R	EDWIN C. & KIMBERLY A. MILLER	5-11-9	54.625
S	SEAN F. MOORE	5-11-9.8	2.070
T	JAMES M. & ROBERT L. STERN	5-9-29	3.1777
U	TRUSTEES OF LIGHTHOUSE TABERNACLE CHURCH	5-9-30.2	1.954
V	JOHN D. & MARSHA J. ROBERTS	5-9-38.6	0.719
W	JOHN D. & MARSHA J. ROBERTS	5-9-38.7	0.795
X	JOHN D. & MARSHA J. ROBERTS	5-9-38.5	0.619
Y	JOHN D. & MARSHA J. ROBERTS	5-9-38.4	0.669
Z	FISH CREEK-WV DIVISION OF NATURAL RESOURCES	N/A	N/A
AA	DAVID ARRICK, ET UX	5-11-4	31.5
BB	SHELVA G. SMITH, ET UX	5-9-38.3	0.706
CC	SHELVA G. SMITH, ET UX	5-9-38.2	0.735
DD	JOHN H. LONG, ET UX	5-9-38.1	0.815
EE	ROBERT S. COWGILL	5-9-38.10	0.920
FF	DALISON LUMBER COMPANY	5-9-31	32.10
GG	JOHN D. ROBERTS, ET UX	5-9-38.8	0.903
HH	JOHN D. ROBERTS, ET UX	5-9-38.9	1.017
II	SHIRLEY A. HILL, ESTATE	5-9-38	3.331
JJ	FRANK T. & ANNA M. WALKER	5-9-37	10.857
KK	RUBY M. HENRY ESTATE (C/O GEORGE E. HENRY)	5-9-3.4	0.379
LL	JOHN DRAKE ALBAUGH	5-9-32.12	1.09
MM	JOHN DRAKE ALBAUGH	5-9-32.1	1.002
NN	JOHN DRAKE ALBAUGH	5-9-32.2	0.231
OO	RUBY M. HENRY ESTATE (C/O GEORGE E. HENRY)	5-9-32.6	0.474
PP	JOHN D. ALBAUGH	5-9-32.13	0.848
QQ	JOHN D. ALBAUGH	5-9-32.7	0.729
RR	SANDRA J. BONETTE	5-9-32	2.321
SS	JAMES EDWARD FRANCIS, ET UX	5-8-8	28.3
TT	JAMES B. JACKSON, JR., ET UX	5-8-9	89.723
UU	EDWIN C. MILLER	5-8-7	180.31



**OLD CROW N LEASE
UTICA UNIT - 394.85 AC±
WELL 17HU
TUG HILL OPERATING**

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

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



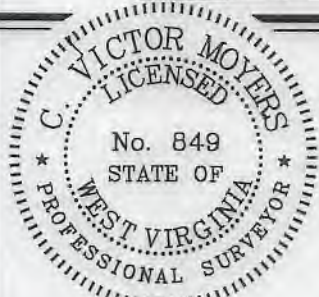
MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
5-9-29.2	JAMES E. & AMY L. MCDONOUGH	2.807
5-9-30.1	DAVID JR. & MELISA LOVE	2.518
5-9-40	SHIRLEY A. HILL EST	368' X 425'
5-11-5	KEVIN R. CORLEY, ET UX	10.36
5-11-5.3	ROBERT HARRIS ARRICK, ET UX	3.00
5-11-6	ROBERT & REBECCA ARRICK	1.29
5-11-8	BAPTIST CHURCH	1.5
5-11-9.2	MICHAEL R. BRYAN	3.143
5-11-9.3	JOSEPH M. & STEVEN HAUGHT	16.3
5-11-9.5	SOUTHERN COUNTRY FARMS INC.	2.559
5-11-9.6	SOUTHERN COUNTRY FARMS INC.	2.488
5-11-9.9	LEONARD L. PARSONS, ET UX	5.89
5-11-9.10	JOHN A. & JANET L. BEUCKE	2.348
5-11-11	BRAD M. & AMANDA J. BLAKE	5.00
5-11-11.1	NELLIE MARIE & ROBERT SPENCER	5.813
5-11-11.4	BRAD M. & AMANDA J. BLAKE	15.193

LINE	BEARING	DISTANCE
L1	S 60°57' W	34.93'
L2	S 55°45' E	696.56'
L3	N 68°08' W	1273.53'
L4	S 82°29' W	977.29'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	9.65'	37.61'	S 63°41' E	9.63'
C2	12.79'	7.38'	N 52°24' E	11.25'
C3	27.53'	89.14'	N 05°17' W	27.42'
C4	243.25'	1584.90'	N 21°16' W	243.01'
C5	544.51'	7131.71'	N 27°05' W	544.37'

SLS
Land & Energy Development
Solutions from the ground up.
P.O. Box 150 • 12 Vanham Drive • Glenville, WV 26351 • (304) 462-5634
www.sls-wv.com

P.S. 849 *C. Victor Moyers*



(+) 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)

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'83 S.P.C.(FT) N. 468,139.24 E. 1,613,525.64
 NAD'83 GEO. LAT-(N) 39.778430 LONG-(W) 80.783067
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 NAD'83 GEO. LAT-(N) 39.779350 LONG-(W) 80.762286
 NAD'83 UTM (M) N. 4,403,294.7 E. 520,356.4
BOTTOM HOLE
 NAD'83 S.P.C.(FT) N. 480,021.3 E. 1,607,335.8
 NAD'83 GEO. LAT-(N) 39.810806 LONG-(W) 80.785694
 NAD'83 UTM (M) N. 4,406,780.8 E. 518,343.5

SCALE 1" = 2000' FILE NO. 8796P17HUR3.dwg
 OLD CROW NORTH 17HU_REV4
 DATE OCTOBER 3, 2018
 REVISED 03/05/19, 04/25/19, 05/14/19
 OPERATORS WELL NO. OLD CROW N-17HU
 API WELL NO. 47-051-02122 MOD
 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 CT CORPORATION SYSTEM ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

COUNTY NAME PERMIT

**OLD CROW N LEASE
UTICA UNIT - 394.85 AC±
WELL 17HU
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	DONNA V YOHO	665 407
3	10*14919	C	5-16-5	CHESTNUT HOLDINGS INC	836 117
4	10*14920	D	5-10-14	CHESTNUT HOLDINGS INC	836 119
5	10*19340	E	5-16-3.2	DONNA V YOHO	665 407
6	10*19017	F	5-10-15	PAUL A RINE AND DEBRA A RINE	796 24
7	10*19223	G	5-10-15.1	DONALD T MILLER	737 284
8	10*19126	H	5-10-16	KEVIN R. CORLEY AND ANITA L. CORLEY, HUSBAND AND WIFE	859 44
9	10*19109	J	5-10-16.4	JOHN W. MILLER AND MARY ALICE MILLER, HUSBAND AND WIFE	863 275
10	10*47051.260.0	J	5-10-2	WILLJAMA PRASCIK, ET AL	879 302
11	10*19021	K	5-10-17	MARCELLUS TX MINERAL PARTNERS LTD, et al	800 216
12	10*19034	K	5-10-17	JMK IRREVOCABLE TRUST	813 145
13	10*19035	K	5-10-17	PURPLEBURGH VENTURES, LLC	813 138
14	10*19336	L	5-11-11.2	BONNIE JEAN DAWSON	665 397
15	10*19021	M	5-11-10	MARCELLUS TX MINERAL PARTNERS LTD, et al	800 216
16	10*19034	M	5-11-10	JMK IRREVOCABLE TRUST	813 145
17	10*19035	M	5-11-10	PURPLEBURGH VENTURES, LLC	813 138
18	10*19153	N	5-11-9.4	JACK S HUGGINS JR AND TERRY L HUGGINS	700 396
19	10*19153	O	5-11-9.1	JACK S HUGGINS JR	700 396
20	10*18970	P	5-10-1	DONALD E BERISFORD, et al	941 287
21	10*19036	P	5-10-1	HAROLD W HOWARD JR	813 91
22	10*19037	P	5-10-1	NEVELLE SEELEY	813 116
23	10*19039	P	5-10-1	RALPH B RUSSELL MARY ANN RUSSELL	813 106
24	10*19040	P	5-10-1	RUTHANNE RUSSELL TOPPING	813 79
25	10*19041	P	5-10-1	CHERYL L HILL	813 101
26	10*19043	P	5-10-1	JACK R BERISFORD LINDA JO BERISFORD	813 96
27	10*19045	P	5-10-1	JOHN W MURDOCK HELEN CAROLINA MURDOCK	814 327
28	10*19049	P	5-10-1	RUTH ANN FERRIS	814 313
29	10*19050	P	5-10-1	LARRY F JEFFERSON CATHY L JEFFERSON	814 473
30	10*19059	P	5-10-1	MARY VANESSA GILSON	815 464
31	10*19060	P	5-10-1	ALYSIA JORDAN	815 135
32	10*19503	P	5-10-1	FRANK DALE BERISFORD AND KATHLEEN BERISFORD	942 625
33	10*19610	P	5-10-1	BRENT BERISFORD AND JEAN MARIE COSTA	944 207
34	10*22637	P	5-10-1	HOWARD T CONNER AND NANETTE CONNER	968 219
35	10*22639	P	5-10-1	EDWIN MARK KNABENSHUE	968 217
36	10*22640	P	5-10-1	JESSICA M CREMEANS	984 532
37	10*22641	P	5-10-1	CHRISTOPHER STALEY & MICHAEL ANNE STALEY	968 221
38	10*22772	P	5-10-1	BILLIE J STALEY AND APRIL STALEY	970 8
39	10*23040	P	5-10-1	MARY L WHITTINGTON	977 300
40	10*23725	P	5-10-1	GRAYSVILLE CALVARY UNITED METHODIST	1011 550
41	10*24029	P	5-10-1	MICHAEL L STEWART	1020 353
42	10*24261	P	5-10-1	GREG STEWART	1020 351
43	10*24514	P	5-10-1	GAYLE F BRITTON TRUST	1026 253
44	10*24515	P	5-10-1	AARON M BROWN	1024 269
45	10*24525	P	5-10-1	DAVID E BOWWER	1027 285
46	10*24554	P	5-10-1	JOSH D AND LAUREN K HALE	1024 254
47	10*24555	P	5-10-1	DAVID W HALE JR	1024 257
48	10*24556	P	5-10-1	BETTY L KEAN	1024 263
49	10*47051.127.1	P	5-10-1	EDWIN C MILLER AND KIMBERLY ANN MILLER	885 61
50	10*47051.127.2	P	5-10-1	JANE S BLANEY	898 547
51	10*47051.127.3	P	5-10-1	JOANNE SCHAFF FOSTER	895 29
52	10*47051.127.4	P	5-10-1	RAYMOND E SCHAFF	898 550
53	10*47051.127.5	P	5-10-1	FIRST CHRISTIAN CHURCH OF MOUNDSVILLE BY ROGER FRANCIS AND ROBERT ALBERT TRUSTEES	898 600
54	10*47051.127.6	P	5-10-1	BARBARA GODWIN AND CHARLES RODNEY GODWIN	902 419
55	PENDING	P	5-10-1	FORREST O MILLER	1029 581
56	10*25617	P	5-10-1	GLEN DALE UNITED METHODIST CHURCH	1031 610
57	10*14099	Q	5-11-9.7	SOUTHERN COUNTRY FARMS INC	666 489
58	10*14099	R	5-11-9	SOUTHERN COUNTRY FARMS INC	666 489
59	10*19172	S	5-11-9.8	SEAN F MOORE LINDA MOORE	706 581
60	10*17512	T	5-9-29	BONNIE LOU POSTLEWAIT, et al	917 68
61	10*17530	T	5-9-29	WOODROW N WARD AND HILDA A WARD	916 208
62	10*17916	T	5-9-29	MARY E BISHOP	927 167
63	10*18270	T	5-9-29	GERALD L BISHOP III	943 10
64	10*18796	T	5-9-29	DWG OIL & GAS ACQUISITIONS LLC	938 476
65	10*19193	T	5-9-29	LARRY A GUMP	717 488
66	10*19572	T	5-9-29	DOUGLAS R BISHOP	943 12
67	10*21478	T	5-9-29	CHILDRENS HOME SOCIETY OF WEST VIRGINIA	960 173
68	10*21937	T	5-9-29	WHEELING SOCIETY FOR CRIPPLED CHILDREN JAY E PRAGER PRESIDENT	960 33
69	10*22044	T	5-9-29	MICHAEL A BISHOP	960 421
70	10*22296	T	5-9-29	NOAH BAKER AND ALISA BAKER	962 200
71	10*22326	T	5-9-29	RACHEL SONDA AND SCOTT SONDA	962 532
72	10*22407	T	5-9-29	BRADLEY MURPHY	962 575
73	10*22430	T	5-9-29	DEBORAH VANVRANKEN	964 510
74	10*22492	T	5-9-29	FAITH MARIE FREESTONE AND ERIC FREESTONE	972 50
75	10*22547	T	5-9-29	LAWRENCE EDWARD MURPHY AND JOAN MARIE MURPHY	966 628
76	10*22606	T	5-9-29	ROBERT B MURPHY AND LINDA MURPHY	966 469
77	10*22636	T	5-9-29	CHANDA WILSON AND DANIEL WILSON	968 226
78	10*23035	T	5-9-29	DEAN S CARR	977 364
79	10*23508	T	5-9-29	MICHAEL A MURPHY	1009 98
80	10*24888	T	5-9-29	ARTHUR LEE MILLER ET AL	1027 187
81	10*24984	T	5-9-29	JONATHAN BAKER	1027 562
82	10*17600	T	5-9-29	CARLA JO ALLEN AND KENNETH ALLEN	916 129
83	PENDING	T	5-9-29	SANDRA PARDINI AKA KATHERINE S PARDINI AND ALLEN F PARDINI	1031 544
84	Q090332002	T	5-9-29	LORETTA JEAN RIGGLE ET VIR	860 538
85	Q090332003	T	5-9-29	PATTY BERISFORD ET VIR	860 555
86	Q090332007	T	5-9-29	ROBERT RANDOLPH WOODBURN ET UX	860 568
87	10*21547	U	5-9-30.2	GARY A MILLER AND MARCELLET MILLER, et al	952 370
88	10*21548	U	5-9-30.2	JEANNE M MILLER	952 386
89	10*21719	U	5-9-30.2	ROBERT A MILLER	952 389
90	10*22566	U	5-9-30.2	KENNETH A MILLER	964 233
91	CVX935271	U	5-9-30.2	CHARLES W. MILLER AND ESTHER JEAN MILLER	853 59
92	CVX935273	U	5-9-30.2	PAUL PARSONS ET UX	853 430
93	CVX935276	U	5-9-30.2	SHARON LYN RUSSELL	853 422
94	CVX935969	U	5-9-30.2	TIMOTHY HUFF ET UX	864 47
95	CVX936053	U	5-9-30.2	LLOYD C. ARNOLD ET UX	864 39
96	CVX936054	U	5-9-30.2	MARY JO CRONIN	864 43
97	CVX936058	U	5-9-30.2	RICHARD KURPIL ET UX	863 594
98	CVX936061	U	5-9-30.2	CLARA MAE CLIFTON	853 426
99	CVX936062	U	5-9-30.2	GEORGE EDWARDS ET UX	853 418
100	CVX936112	U	5-9-30.2	DONNA FAE KYLE	853 449

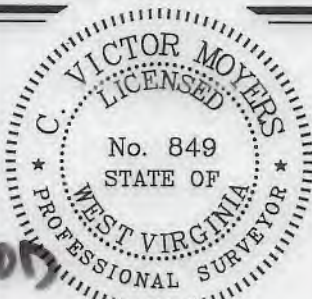
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OLD CROW NORTH 17HU_REV 4

DATE OCTOBER 3, 20 18

REVISED 03/05/19, 04/25/19, 05/14/19

OPERATORS WELL NO. OLD CROW N-17HU

API WELL NO. 47 — 051 — 02122
NO. 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 CT CORPORATION SYSTEM
5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

COUNTY NAME

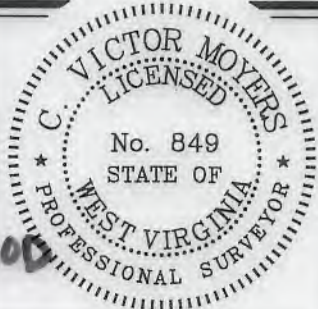
PERMIT

**OLD CROW N LEASE
UTICA UNIT - 394.85 AC±
WELL 17HU
TUG HILL OPERATING**



NO.	Lease ID	Tag	Parcel	Grantor, Lessor, Etc.	Deed Book/Page
101	CVX936113	U	5-9-30.2	JUDITH MAY CONNER	853 445
102	CVX866958	U	5-9-30.2	ANITA L. SLOUGH AND WILLIAM O. JOBES	696 7
103	CVX866959	U	5-9-30.2	PAUL SCHEIBELHOOD ET AL	695 629
104	CVX935271	V	5-9-38.6	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
105	CVX935273	V	5-9-38.6	PAUL PARSONS ET UX	853 430
106	CVX935276	V	5-9-38.6	SHARON LYN RUSSELL	853 422
107	CVX935969	V	5-9-38.6	TIMOTHY HUFF ET UX	864 47
108	CVX936053	V	5-9-38.6	LLOYD C. ARNOLD ET UX	864 39
109	CVX936054	V	5-9-38.6	MARY JO CRONIN	864 43
110	CVX936058	V	5-9-38.6	RICHARD KURPIL ET UX	863 594
111	CVX936061	V	5-9-38.6	CLARA MAE CLIFTON	853 426
112	CVX936062	V	5-9-38.6	GEORGE EDWARDS ET UX	853 418
113	CVX936112	V	5-9-38.6	DONNA FAE KYLE	853 449
114	CVX936113	V	5-9-38.6	JUDITH MAY CONNER	853 445
115	CVX866958	V	5-9-38.6	ANITA L. SLOUGH AND WILLIAM O. JOBES	696 7
116	CVX866959	V	5-9-38.6	PAUL SCHEIBELHOOD ET AL	695 629
117	CVX935271	W	5-9-38.7	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
118	CVX935273	W	5-9-38.7	PAUL PARSONS ET UX	853 430
119	CVX935276	W	5-9-38.7	SHARON LYN RUSSELL	853 422
120	CVX935969	W	5-9-38.7	TIMOTHY HUFF ET UX	864 47
121	CVX936053	W	5-9-38.7	LLOYD C. ARNOLD ET UX	864 39
122	CVX936054	W	5-9-38.7	MARY JO CRONIN	864 43
123	CVX936058	W	5-9-38.7	RICHARD KURPIL ET UX	863 594
124	CVX936061	W	5-9-38.7	CLARA MAE CLIFTON	853 426
125	CVX936062	W	5-9-38.7	GEORGE EDWARDS ET UX	853 418
126	CVX936112	W	5-9-38.7	DONNA FAE KYLE	853 449
127	CVX936113	W	5-9-38.7	JUDITH MAY CONNER	853 445
128	CVX866958	W	5-9-38.7	ANITA L. SLOUGH AND WILLIAM O. JOBES	696 7
129	CVX866959	W	5-9-38.7	PAUL SCHEIBELHOOD ET AL	695 629
130	CVX935271	X	5-9-38.5	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
131	CVX935273	X	5-9-38.5	PAUL PARSONS ET UX	853 430
132	CVX935276	X	5-9-38.5	SHARON LYN RUSSELL	853 422
133	CVX935969	X	5-9-38.5	TIMOTHY HUFF ET UX	864 47
134	CVX936053	X	5-9-38.5	LLOYD C. ARNOLD ET UX	864 39
135	CVX936054	X	5-9-38.5	MARY JO CRONIN	864 43
136	CVX936058	X	5-9-38.5	RICHARD KURPIL ET UX	863 594
137	CVX936061	X	5-9-38.5	CLARA MAE CLIFTON	853 426
138	CVX936062	X	5-9-38.5	GEORGE EDWARDS ET UX	853 418
139	CVX936112	X	5-9-38.5	DONNA FAE KYLE	853 449
140	CVX936113	X	5-9-38.5	JUDITH MAY CONNER	853 445
141	CVX866958	X	5-9-38.5	ANITA L. SLOUGH AND WILLIAM O. JOBES	696 7
142	CVX866959	X	5-9-38.5	PAUL SCHEIBELHOOD ET AL	695 629
143	CVX935271	Y	5-9-38.4	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
144	CVX935273	Y	5-9-38.4	PAUL PARSONS ET UX	853 430
145	CVX935276	Y	5-9-38.4	SHARON LYN RUSSELL	853 422
146	CVX935969	Y	5-9-38.4	TIMOTHY HUFF ET UX	864 47
147	CVX936053	Y	5-9-38.4	LLOYD C. ARNOLD ET UX	864 39
148	CVX936054	Y	5-9-38.4	MARY JO CRONIN	864 43
149	CVX936058	Y	5-9-38.4	RICHARD KURPIL ET UX	863 594
150	CVX936061	Y	5-9-38.4	CLARA MAE CLIFTON	853 426
151	CVX936062	Y	5-9-38.4	GEORGE EDWARDS ET UX	853 418
152	CVX936112	Y	5-9-38.4	DONNA FAE KYLE	853 449
153	CVX936113	Y	5-9-38.4	JUDITH MAY CONNER	853 445
154	CVX866958	Y	5-9-38.4	ANITA L. SLOUGH AND WILLIAM O. JOBES	696 7
155	CVX866959	Y	5-9-38.4	PAUL SCHEIBELHOOD ET AL	695 629
156	0091960000	Z	FISH CREEK	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	865 558
157	10*19096	AA	5-11-4	DAVID HARRICK AND LELAH MARRICK, et al	800 505
158	10*22753	AA	5-11-4	JAMES AND DIANA MIDCAP	803 615
159	CVX935271	BB	5-9-38.3	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
160	CVX935273	BB	5-9-38.3	PAUL PARSONS ET UX	853 430
161	CVX935276	BB	5-9-38.3	SHARON LYN RUSSELL	853 422
162	CVX935969	BB	5-9-38.3	TIMOTHY HUFF ET UX	864 47
163	CVX936053	BB	5-9-38.3	LLOYD C. ARNOLD ET UX	864 39
164	CVX936054	BB	5-9-38.3	MARY JO CRONIN	864 43
165	CVX936058	BB	5-9-38.3	RICHARD KURPIL ET UX	863 594
166	CVX936061	BB	5-9-38.3	CLARA MAE CLIFTON	853 426
167	CVX936062	BB	5-9-38.3	GEORGE EDWARDS ET UX	853 418
168	CVX936112	BB	5-9-38.3	DONNA FAE KYLE	853 449
169	CVX936113	BB	5-9-38.3	JUDITH MAY CONNER	853 445
170	CVX866958	BB	5-9-38.3	ANITA L. SLOUGH AND WILLIAM O. JOBES	696 7
171	CVX866959	BB	5-9-38.3	PAUL SCHEIBELHOOD ET AL	695 629
172	CVX935271	CC	5-9-38.2	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
173	CVX935273	CC	5-9-38.2	PAUL PARSONS ET UX	853 430
174	CVX935276	CC	5-9-38.2	SHARON LYN RUSSELL	853 422
175	CVX935969	CC	5-9-38.2	TIMOTHY HUFF ET UX	864 47
176	CVX936053	CC	5-9-38.2	LLOYD C. ARNOLD ET UX	864 39
177	CVX936054	CC	5-9-38.2	MARY JO CRONIN	864 43
178	CVX936058	CC	5-9-38.2	RICHARD KURPIL ET UX	863 594
179	CVX936061	CC	5-9-38.2	CLARA MAE CLIFTON	853 426
180	CVX936062	CC	5-9-38.2	GEORGE EDWARDS ET UX	853 418
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182	CVX936113	CC	5-9-38.2	JUDITH MAY CONNER	853 445
183	CVX866958	CC	5-9-38.2	ANITA L. SLOUGH AND WILLIAM O. JOBES	696 7
184	CVX866959	CC	5-9-38.2	PAUL SCHEIBELHOOD ET AL	695 629
185	CVX935271	DD	5-9-38.1	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
186	CVX935273	DD	5-9-38.1	PAUL PARSONS ET UX	853 430
187	CVX935276	DD	5-9-38.1	SHARON LYN RUSSELL	853 422
188	CVX935969	DD	5-9-38.1	TIMOTHY HUFF ET UX	864 47
189	CVX936053	DD	5-9-38.1	LLOYD C. ARNOLD ET UX	864 39
190	CVX936054	DD	5-9-38.1	MARY JO CRONIN	864 43
191	CVX936058	DD	5-9-38.1	RICHARD KURPIL ET UX	863 594
192	CVX936061	DD	5-9-38.1	CLARA MAE CLIFTON	853 426
193	CVX936062	DD	5-9-38.1	GEORGE EDWARDS ET UX	853 418
194	CVX936112	DD	5-9-38.1	DONNA FAE KYLE	853 449
195	CVX936113	DD	5-9-38.1	JUDITH MAY CONNER	853 445
196	CVX866958	DD	5-9-38.1	ANITA L. SLOUGH AND WILLIAM O. JOBES	696 7
197	CVX866959	DD	5-9-38.1	PAUL SCHEIBELHOOD ET AL	695 629
198	CVX935271	EE	5-9-38.10	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
199	CVX935273	EE	5-9-38.10	PAUL PARSONS ET UX	853 430
200	CVX935276	EE	5-9-38.10	SHARON LYN RUSSELL	853 422
201	CVX935969	EE	5-9-38.10	TIMOTHY HUFF ET UX	864 47
202	CVX936053	EE	5-9-38.10	LLOYD C. ARNOLD ET UX	864 39
203	CVX936054	EE	5-9-38.10	MARY JO CRONIN	864 43

FILE NO. 8796P17HUR3.dwg
OLD CROW NORTH 17HU_REV 4
 DATE OCTOBER 3, 20 18
 REVISED 03/05/19, 04/25/19, 05/14/19
 OPERATORS WELL NO. OLD CROW N-17HU
 API WELL NO. 47 — 051 — 02122
 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

**OLD CROW N LEASE
UTICA UNIT - 394.85 AC±
WELL 17HU
TUG HILL OPERATING**



NO.	Lease ID	Tag	Parcel	Grantor, Lessor, Etc.	Deed Book/Page
204	CVX936058	EE	5-9-38.10	RICHARD KURPIL ET UX	863 594
205	CVX936061	EE	5-9-38.10	CLARA MAE CLIFTON	853 426
206	CVX936062	EE	5-9-38.10	GEORGE EDWARDS ET UX	853 418
207	CVX936112	EE	5-9-38.10	DONNA FAE KYLE	853 449
208	CVX936113	EE	5-9-38.10	JUDITH MAY CONNER	853 445
209	CVX866958	EE	5-9-38.10	ANITA L. SLOUGH AND WILLIAM O. JOBES	696 7
210	CVX866959	EE	5-9-38.10	PAUL SCHEIBELHOOD ET AL	695 629
211	10*19217	FF	5-9-31	JAY DEE DALLISON EDDIE D DALLISON	676 463
212	CVX935271	GG	5-9-38.8	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
213	CVX935273	GG	5-9-38.8	PAUL PARSONS ET UX	853 430
214	CVX935276	GG	5-9-38.8	SHARON LYN RUSSELL	853 422
215	CVX935969	GG	5-9-38.8	TIMOTHY HUFF ET UX	864 47
216	CVX936053	GG	5-9-38.8	LLOYD C. ARNOLD ET UX	864 39
217	CVX936054	GG	5-9-38.8	MARY JO CRONIN	864 43
218	CVX936058	GG	5-9-38.8	RICHARD KURPIL ET UX	863 594
219	CVX936061	GG	5-9-38.8	CLARA MAE CLIFTON	853 426
220	CVX936062	GG	5-9-38.8	GEORGE EDWARDS ET UX	853 418
221	CVX936112	GG	5-9-38.8	DONNA FAE KYLE	853 449
222	CVX936113	GG	5-9-38.8	JUDITH MAY CONNER	853 445
223	CVX866958	GG	5-9-38.8	ANITA L. SLOUGH AND WILLIAM O. JOBES	696 7
224	CVX866959	GG	5-9-38.8	PAUL SCHEIBELHOOD ET AL	695 629
225	CVX935271	HH	5-9-38.9	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
226	CVX935273	HH	5-9-38.9	PAUL PARSONS ET UX	853 430
227	CVX935276	HH	5-9-38.9	SHARON LYN RUSSELL	853 422
228	CVX935969	HH	5-9-38.9	TIMOTHY HUFF ET UX	864 47
229	CVX936053	HH	5-9-38.9	LLOYD C. ARNOLD ET UX	864 39
230	CVX936054	HH	5-9-38.9	MARY JO CRONIN	864 43
231	CVX936058	HH	5-9-38.9	RICHARD KURPIL ET UX	863 594
232	CVX936061	HH	5-9-38.9	CLARA MAE CLIFTON	853 426
233	CVX936062	HH	5-9-38.9	GEORGE EDWARDS ET UX	853 418
234	CVX936112	HH	5-9-38.9	DONNA FAE KYLE	853 449
235	CVX936113	HH	5-9-38.9	JUDITH MAY CONNER	853 445
236	CVX866958	HH	5-9-38.9	ANITA L. SLOUGH AND WILLIAM O. JOBES	696 7
237	CVX866959	HH	5-9-38.9	PAUL SCHEIBELHOOD ET AL	695 629
238	CVX935271	II	5-9-38	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
239	CVX935273	II	5-9-38	PAUL PARSONS ET UX	853 430
240	CVX935276	II	5-9-38	SHARON LYN RUSSELL	853 422
241	CVX935969	II	5-9-38	TIMOTHY HUFF ET UX	864 47
242	CVX936053	II	5-9-38	LLOYD C. ARNOLD ET UX	864 39
243	CVX936054	II	5-9-38	MARY JO CRONIN	864 43
244	CVX936058	II	5-9-38	RICHARD KURPIL ET UX	863 594
245	CVX936061	II	5-9-38	CLARA MAE CLIFTON	853 426
246	CVX936062	II	5-9-38	GEORGE EDWARDS ET UX	853 418
247	CVX936112	II	5-9-38	DONNA FAE KYLE	853 449
248	CVX936113	II	5-9-38	JUDITH MAY CONNER	853 445
249	CVX866958	II	5-9-38	ANITA L. SLOUGH AND WILLIAM O. JOBES	696 7
250	CVX866959	II	5-9-38	PAUL SCHEIBELHOOD ET AL	695 629
251	CVX935271	JJ	5-9-37	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
252	CVX935273	JJ	5-9-37	PAUL PARSONS ET UX	853 430
253	CVX935276	JJ	5-9-37	SHARON LYN RUSSELL	853 422
254	CVX935969	JJ	5-9-37	TIMOTHY HUFF ET UX	864 47
255	CVX936053	JJ	5-9-37	LLOYD C. ARNOLD ET UX	864 39
256	CVX936054	JJ	5-9-37	MARY JO CRONIN	864 43
257	CVX936058	JJ	5-9-37	RICHARD KURPIL ET UX	863 594
258	CVX936061	JJ	5-9-37	CLARA MAE CLIFTON	853 426
259	CVX936062	JJ	5-9-37	GEORGE EDWARDS ET UX	853 418
260	CVX936112	JJ	5-9-37	DONNA FAE KYLE	853 449
261	CVX936113	JJ	5-9-37	JUDITH MAY CONNER	853 445
262	CVX866958	JJ	5-9-37	ANITA L. SLOUGH AND WILLIAM O. JOBES	696 7
263	CVX866959	JJ	5-9-37	PAUL SCHEIBELHOOD ET AL	695 629
264	CVX935271	KK	5-9-32.4	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
265	CVX935273	KK	5-9-32.4	PAUL PARSONS ET UX	853 430
266	CVX935276	KK	5-9-32.4	SHARON LYN RUSSELL	853 422
267	CVX935969	KK	5-9-32.4	TIMOTHY HUFF ET UX	864 47
268	CVX936053	KK	5-9-32.4	LLOYD C. ARNOLD ET UX	864 39
269	CVX936054	KK	5-9-32.4	MARY JO CRONIN	864 43
270	CVX936058	KK	5-9-32.4	RICHARD KURPIL ET UX	863 594
271	CVX936061	KK	5-9-32.4	CLARA MAE CLIFTON	853 426
272	CVX936062	KK	5-9-32.4	GEORGE EDWARDS ET UX	853 418
273	CVX936112	KK	5-9-32.4	DONNA FAE KYLE	853 449
274	CVX936113	KK	5-9-32.4	JUDITH MAY CONNER	853 445
275	CVX866958	KK	5-9-32.4	ANITA L. SLOUGH AND WILLIAM O. JOBES	696 7
276	CVX866959	KK	5-9-32.4	PAUL SCHEIBELHOOD ET AL	695 629
277	CVX935271	LL	5-9-32.12	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
278	CVX935273	LL	5-9-32.12	PAUL PARSONS ET UX	853 430
279	CVX935276	LL	5-9-32.12	SHARON LYN RUSSELL	853 422
280	CVX935969	LL	5-9-32.12	TIMOTHY HUFF ET UX	864 47
281	CVX936053	LL	5-9-32.12	LLOYD C. ARNOLD ET UX	864 39
282	CVX936054	LL	5-9-32.12	MARY JO CRONIN	864 43
283	CVX936058	LL	5-9-32.12	RICHARD KURPIL ET UX	863 594
284	CVX936061	LL	5-9-32.12	CLARA MAE CLIFTON	853 426
285	CVX936062	LL	5-9-32.12	GEORGE EDWARDS ET UX	853 418
286	CVX936112	LL	5-9-32.12	DONNA FAE KYLE	853 449
287	CVX936113	LL	5-9-32.12	JUDITH MAY CONNER	853 445
288	CVX866958	LL	5-9-32.12	ANITA L. SLOUGH AND WILLIAM O. JOBES	696 7
289	CVX866959	LL	5-9-32.12	PAUL SCHEIBELHOOD ET AL	695 629
290	CVX935271	MM	5-9-32.1	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
291	CVX935273	MM	5-9-32.1	PAUL PARSONS ET UX	853 430
292	CVX935276	MM	5-9-32.1	SHARON LYN RUSSELL	853 422
293	CVX935969	MM	5-9-32.1	TIMOTHY HUFF ET UX	864 47
294	CVX936053	MM	5-9-32.1	LLOYD C. ARNOLD ET UX	864 39
295	CVX936054	MM	5-9-32.1	MARY JO CRONIN	864 43
296	CVX936058	MM	5-9-32.1	RICHARD KURPIL ET UX	863 594
297	CVX936061	MM	5-9-32.1	CLARA MAE CLIFTON	853 426
298	CVX936062	MM	5-9-32.1	GEORGE EDWARDS ET UX	853 418
299	CVX936112	MM	5-9-32.1	DONNA FAE KYLE	853 449
300	CVX936113	MM	5-9-32.1	JUDITH MAY CONNER	853 445
301	CVX866958	MM	5-9-32.1	ANITA L. SLOUGH AND WILLIAM O. JOBES	696 7
302	CVX866959	MM	5-9-32.1	PAUL SCHEIBELHOOD ET AL	695 629
303	CVX935271	NN	5-9-32.2	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
304	CVX935273	NN	5-9-32.2	PAUL PARSONS ET UX	853 430
305	CVX935276	NN	5-9-32.2	SHARON LYN RUSSELL	853 422
306	CVX935969	NN	5-9-32.2	TIMOTHY HUFF ET UX	864 47

FILE NO. 8796P17HUR3.dwg
OLD CROW NORTH 17HU_REV 4

DATE OCTOBER 3, 20 18

REVISED 03/05/19, 04/25/19, 05/14/19

OPERATORS WELL NO. OLD CROW N-17HU

API WELL NO. 47 — 051 — 02122
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

**OLD CROW N LEASE
UTICA UNIT - 394.85 AC±
WELL 17HU
TUG HILL OPERATING**



NO.	Lease ID	Tag	Parcel	Grantor, Lessor, Etc.	Deed Book/Page
307	CVX936053	NN	5-9-32.2	LLOYD C. ARNOLD ET UX	864 39
308	CVX936054	NN	5-9-32.2	MARY JO CRONIN	864 43
309	CVX936058	NN	5-9-32.2	RICHARD KURPIL ET UX	863 594
310	CVX936061	NN	5-9-32.2	CLARA MAE CLIFTON	853 426
311	CVX936062	NN	5-9-32.2	GEORGE EDWARDS ET UX	853 418
312	CVX936112	NN	5-9-32.2	DONNA FAE KYLE	853 449
313	CVX936113	NN	5-9-32.2	JUDITH MAY CONNER	853 445
314	CVX866958	NN	5-9-32.2	ANITA L. SLOUGH AND WILLIAM O. JOBES	696 7
315	CVX866959	NN	5-9-32.2	PAUL SCHEIBELHOOD ET AL	695 629
316	CVX935271	OO	5-9-32.6	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
317	CVX935273	OO	5-9-32.6	PAUL PARSONS ET UX	853 430
318	CVX935276	OO	5-9-32.6	SHARON LYN RUSSELL	853 422
319	CVX935969	OO	5-9-32.6	TIMOTHY HUFF ET UX	864 47
320	CVX936053	OO	5-9-32.6	LLOYD C. ARNOLD ET UX	864 39
321	CVX936054	OO	5-9-32.6	MARY JO CRONIN	864 43
322	CVX936058	OO	5-9-32.6	RICHARD KURPIL ET UX	863 594
323	CVX936061	OO	5-9-32.6	CLARA MAE CLIFTON	853 426
324	CVX936062	OO	5-9-32.6	GEORGE EDWARDS ET UX	853 418
325	CVX936112	OO	5-9-32.6	DONNA FAE KYLE	853 449
326	CVX936113	OO	5-9-32.6	JUDITH MAY CONNER	853 445
327	CVX866958	OO	5-9-32.6	ANITA L. SLOUGH AND WILLIAM O. JOBES	696 7
328	CVX866959	OO	5-9-32.6	PAUL SCHEIBELHOOD ET AL	695 629
329	CVX935271	PP	5-9-32.13	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
330	CVX935273	PP	5-9-32.13	PAUL PARSONS ET UX	853 430
331	CVX935276	PP	5-9-32.13	SHARON LYN RUSSELL	853 422
332	CVX935969	PP	5-9-32.13	TIMOTHY HUFF ET UX	864 47
333	CVX936053	PP	5-9-32.13	LLOYD C. ARNOLD ET UX	864 39
334	CVX936054	PP	5-9-32.13	MARY JO CRONIN	864 43
335	CVX936058	PP	5-9-32.13	RICHARD KURPIL ET UX	863 594
336	CVX936061	PP	5-9-32.13	CLARA MAE CLIFTON	853 426
337	CVX936062	PP	5-9-32.13	GEORGE EDWARDS ET UX	853 418
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339	CVX936113	PP	5-9-32.13	JUDITH MAY CONNER	853 445
340	CVX866958	PP	5-9-32.13	ANITA L. SLOUGH AND WILLIAM O. JOBES	696 7
341	CVX866959	PP	5-9-32.13	PAUL SCHEIBELHOOD ET AL	695 629
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352	CVX936113	QQ	5-9-32.7	JUDITH MAY CONNER	853 445
353	CVX866958	QQ	5-9-32.7	ANITA L. SLOUGH AND WILLIAM O. JOBES	696 7
354	CVX866959	QQ	5-9-32.7	PAUL SCHEIBELHOOD ET AL	695 629
355	CVX935271	RR	5-9-32	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
356	CVX935273	RR	5-9-32	PAUL PARSONS ET UX	853 430
357	CVX935276	RR	5-9-32	SHARON LYN RUSSELL	853 422
358	CVX935969	RR	5-9-32	TIMOTHY HUFF ET UX	864 47
359	CVX936053	RR	5-9-32	LLOYD C. ARNOLD ET UX	864 39
360	CVX936054	RR	5-9-32	MARY JO CRONIN	864 43
361	CVX936058	RR	5-9-32	RICHARD KURPIL ET UX	863 594
362	CVX936061	RR	5-9-32	CLARA MAE CLIFTON	853 426
363	CVX936062	RR	5-9-32	GEORGE EDWARDS ET UX	853 418
364	CVX936112	RR	5-9-32	DONNA FAE KYLE	853 449
365	CVX936113	RR	5-9-32	JUDITH MAY CONNER	853 445
366	CVX866958	RR	5-9-32	ANITA L. SLOUGH AND WILLIAM O. JOBES	696 7
367	CVX866959	RR	5-9-32	PAUL SCHEIBELHOOD ET AL	695 629
368	10*25370	SS	5-8-8	JAMES EDWARD & LAURA J FRANCIS	1030 377
369	PENDING	SS	5-8-8	STONE HILL MINERAL HOLDINGS LLC	1031 538
370	10*47051.105.0	TT	5-8-9	JAMES B JACKSON JR AND MARION L JACKSON	859 478
371	10*21546	UU	5-8-7	EDWIN C MILLER AND KIMBERLY ANN MILLER	957 257

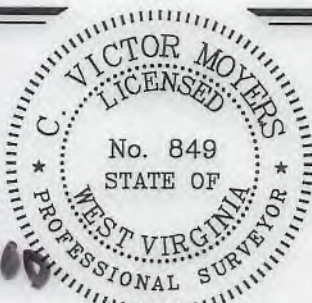
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DATE OCTOBER 3, 20 18

REVISED 03/05/19, 04/25/19, 05/14/19

OPERATORS WELL NO. OLD CROW N-17HU

API WELL NO. 47 — 051 — 02122
 NO. STATE COUNTY PERMIT



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



P.S.
 849

C. Victor Moyers

COUNTY NAME

PERMIT

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