

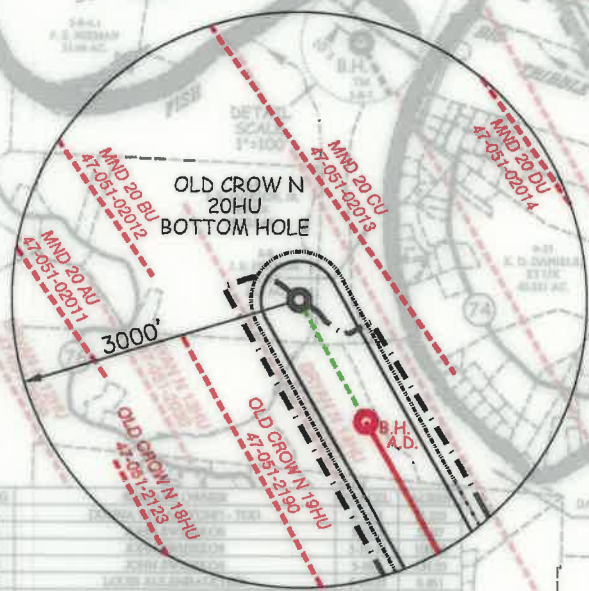
OLD CROW N LEASE
UTICA UNIT - 503.48 AC ±
WELL 20HU
TUG HILL OPERATING

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. 468,138.92	E. 1,613,557.53
NAD'83 GEO.	LAT-(N) 39.778430	LONG-(W) 80.762954
NAD'83 UTM (M)	N. 4,403,192.49	E. 520,299.44
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 470,292.3	E. 1,617,029.2
NAD'83 GEO.	LAT-(N) 39.784475	LONG-(W) 80.750709
NAD'83 UTM (M)	N. 4,403,866.2	E. 521,346.1
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 482,252.1	E. 1,610,387.4
NAD'83 GEO.	LAT-(N) 39.817049	LONG-(W) 80.774945
NAD'83 UTM (M)	N. 4,407,476.0	E. 519,261.8

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



AS DRILLED COORDINATES FOR WELL NO. 20HU

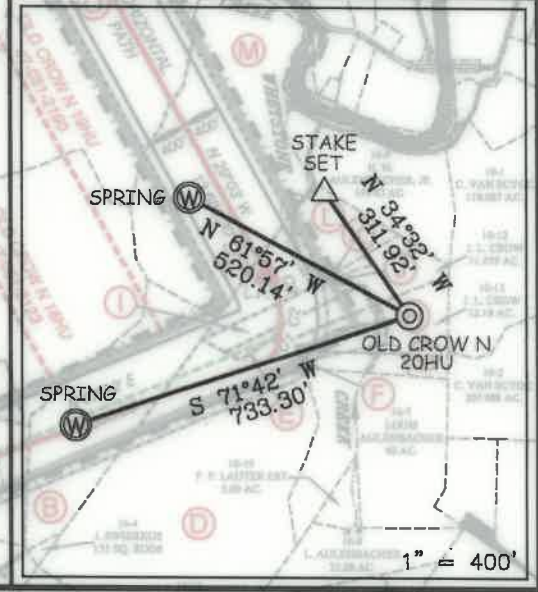
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'83 S.P.C.(FT)	N. 468,138.02	E. 1,613,557.53
NAD'83 GEO.	LAT-(N) 39.778430	LONG-(W) 80.762954
NAD'83 UTM (M)	N. 4,403,192.49	E. 520,299.44
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 470,303.4	E. 1,617,034.7
NAD'83 GEO.	LAT-(N) 39.784506	LONG-(W) 80.750690
NAD'83 UTM (M)	N. 4,403,869.6	E. 521,347.6
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 480,991.8	E. 1,611,061.2
NAD'83 GEO.	LAT-(N) 39.813817	LONG-(W) 80.772412
NAD'83 UTM (M)	N. 4,407,095.6	E. 519,479.6

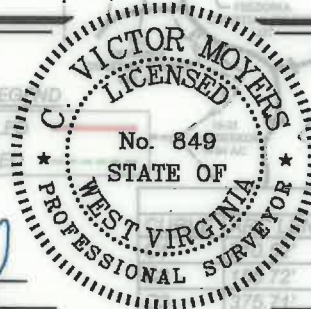
REFERENCES

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-20HU IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF PERMITTING 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), OLD CROW N-19HU (47-051-2190), MND20 AU (47-051-02011), MND20 BU (47-051-02012), & MND20 CU (47-051-02013). MND20 DU (47-051-02014).
- THE ASSESSMENT OF THE 1/10 ACRE LOT, OWNED BY JASON J. STEED AND DESCRIBED AS THE SECOND PARCEL IN DEED BOOK 843 PAGE 319 AND CORRECTIVE DEED 843 PAGE 300, IS NOT CURRENTLY ACCOUNTED FOR WITHIN THE 135.61 ACRE ASSESSMENT OF SURFACE TAX MAP 5-9-13.2.
- AS-DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC.
- PLAT UPDATED TO SHOW AS-DRILLED PATH.



12 Venhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.344.3952
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
 slsvv.com



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 JULY 9 20 20
 REVISED _____
 OPERATORS WELL NO. OLD CROW N-20HU
 API WELL NO. 47-051-2191
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 17.2500 FILE NO. 8796P20HUAD.dwg
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)
 SCALE 1" = 2000'

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

WELL TYPE: OIL GAS INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: GROUND = 1,288.00' 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) 2191 TARGET FORMATION POINT PLEASANT

ESTIMATED DEPTH TVD: 11,561' / TMD: 25,077'

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

**OLD CROW N LEASE
UTICA UNIT - 503.48 AC ±
WELL 20HU
TUG HILL OPERATING**



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slsw.com

No.	Lease Name or No.	Tag	Parcel	Grantor, Lessor, etc.	Deed Book/Page
1	10*19340	A	5-16-3	DONNA V YOHO	665 407
2	10*14919	B	5-16-5	CHESTNUT HOLDINGS INC	836 117
3	10*14920	C	5-10-14	CHESTNUT HOLDINGS INC	836 119
4	10*21468	D	5-16-6	JOHN A SWIERKOS	953 317
5	10*18396	E	5-10-22	LOUIS AULENBACHER	932 468
6	10*21468	E	5-10-22	JOHN A SWIERKOS	953 317
7	10*21468	F	5-10-19	JOHN A SWIERKOS	953 317
8	10*47051.261.4	F	5-10-19	BRADLEY L HUBBARD AND CONNIE L HUBBARD	898 573
9	10*18396	G	5-10-20	LOUIS AULENBACHER	932 468
10	10*21468	G	5-10-20	JOHN A SWIERKOS	953 317
11	10*18396	H	5-10-21	LOUIS AULENBACHER	932 468
12	10*21468	H	5-10-21	JOHN A SWIERKOS	953 317
13	10*21468	I	5-10-12.1	JOHN A SWIERKOS	953 317
14	10*47051.261.1	I	5-10-12.1	WILLIAM HUBBARD	882 536
15	10*47051.261.2	I	5-10-12.1	BONNIE G ZELIC	882 539
16	10*47051.261.3	I	5-10-12.1	JOHN P SMITH JR	882 542
17	10*47051.261.4	I	5-10-12.1	BRADLEY L HUBBARD AND CONNIE L HUBBARD	898 573
18	10*18892	J	5-10-12	JOSEPH LEE CROW	966 88
19	10*18302	K	5-10-11	JOSEPH L CROW JR AND LORRY CROW	929 316
20	10*21468	L	5-10-10	JOHN A SWIERKOS	953 317
21	PENDING	L	5-10-10	LOUIS VAN SCYOC AND PATRICIA VAN SCYOC	697 461
22	10*22295	L	5-10-10	RACHEL B OSTRANDER	822 210
23	10*22319	L	5-10-10	SHARON G VAN SCYOC	822 204
24	10*19249	M	5-10-9	HERBERT M AULENBACHER	914 551
25	10*14918	N	5-10-3	CHESTNUT HOLDINGS INC	836 115
26	Q091960000	O	FISH CREEK	STATE OF WEST VIRGINIA DIVISION OF NATURAL RESOURCES	865 558
27	10*18594	P	5-10-4.7	LEE JONATHAN BECHTOLD	934 646
28	10*18594	P	5-10-4.7	LINDA L & THOMAS G MCCORMICK	934 643
29	10*18594	P	5-10-4.7	LW BECHTOLD	934 641
30	10*19248	Q	5-10-4	ALBERT F KAZEMKA	848 419
31	10*21571	R	5-10-4.2	JACK E RECTOR	957 476
32	10*19163	S	5-10-4.3	ANTHONY A ANKROM KAREN LANKROM	711 468
33	10*18158	T	5-10-4.8	SAMUEL D FRANKLIN AND RHONDA K FRANKLIN	938 462
34	10*19248	U	5-10-4.12	ALBERT F KAZEMKA	848 419
35	10*19131	V	5-10-4.9	LISA D ELSON	764 16
36	10*19108	W	5-10-4.11	JASON E BONNETTE	848 438
37	10*19107	X	5-10-4.10	ALBERT F KAZEMKA	853 73
38	10*47051.162.0	Y	5-9-13	KAREN M WILSON	873 150
39	10*19107	Z	5-9-16	ALBERT F KAZEMKA	853 73
40	10*47051.170.0	AA	5-9-13.2	JASON J STEED	865 344
41	10*47051.260.0	BB	5-10-2	WILLIAM A PRASCIC , CATHERINE A PRASCIC, LORI J PRASCIC, FRANCIS C PRASCIC	879 302
42	Q078672000	CC	5-9-14	DENNIS P CADMUS	808 311
43	10*47051.127.1	DD	5-9-20	EDWIN C MILLER AND KIMBERLY ANN MILLER	885 61
44	10*18796	EE	5-9-15	DWG OIL & GAS ACQUISITIONS LLC	938 476
45	10*21414	EE	5-9-15	CHARLES R STOCKTON AND BETTY M HUDSON STOCKTON	959 310
46	10*21473	EE	5-9-15	MARY E BISHOP	957 232
47	10*21475	EE	5-9-15	WOODROW N WARD AND HILDA A WARD	957 124
48	10*21478	EE	5-9-15	CHILDRENS HOME SOCIETY OF WEST VIRGINIA	960 173
49	10*21547	EE	5-9-15	GARY A MILLER AND MARCELLE T MILLER	952 370
50	10*21548	EE	5-9-15	JEANNE M MILLER	952 386
51	10*21608	EE	5-9-15	BONNIE LOU POSTLEWAIT	959 313
52	10*21719	EE	5-9-15	ROBERT A MILLER	952 389
53	10*21835	EE	5-9-15	KENNETH ALLEN AND CARLA JO ALLEN	962 572
54	10*21937	EE	5-9-15	WHEELING SOCIETY FOR CRIPPLED CHILDREN JAY E PRAGER PRESIDENT	960 33
55	10*22044	EE	5-9-15	MICHAEL A BISHOP	960 421
56	10*22045	EE	5-9-15	DOUGLAS R BISHOP	961 417
57	10*22296	EE	5-9-15	NOAH BAKER AND ALISA BAKER	962 200
58	10*22326	EE	5-9-15	RACHEL SONDA AND SCOTT SONDA	962 532
59	10*22407	EE	5-9-15	BRADLEY MURPHY	962 575
60	10*22430	EE	5-9-15	DEBORAH VANVRANKEN	964 510
61	10*22451	EE	5-9-15	GERALD L BISHOP III	964 31
62	10*22492	EE	5-9-15	FAITH MARIE FREESTONE AND ERIC FREESTONE	972 50
63	10*22547	EE	5-9-15	LAWRENCE EDWARD MURPHY AND JOAN MARIE MURPHY	966 628
64	10*22566	EE	5-9-15	KENNETH A MILLER	964 233
65	10*22606	EE	5-9-15	ROBERT B MURPHY AND LINDA MURPHY	966 469
66	10*22636	EE	5-9-15	CHANDA WILSON AND DANIEL WILSON	968 226
67	10*23035	EE	5-9-15	DEAN S CARR	977 364
68	10*23508	EE	5-9-15	MICHAEL A MURPHY	1009 98
69	10*24888	EE	5-9-15	ARTHUR LEE MILLER ET AL	1027 187
70	10*24964	EE	5-9-15	JONATHAN BAKER	1027 558
71	Q090332002	EE	5-9-15	LORETTA JEAN RIGGLE ET VIR	860 538
72	Q090332003	EE	5-9-15	PATTY BERISFORD ET VIR	860 555
73	Q090332007	EE	5-9-15	ROBERT RANDOLPH WOODBURN ET UX	860 568
74	Q090332001	EE	5-9-15	WILLIAM E MILLER AND KAREN S MILLER	858 256
75	PENDING	EE	5-9-15	SANDRA PARDINI AKA KATHERINE S PARDINI AND ALLEN F PARDINI	1031 544
76	10*18796	FF	5-9-17.1	DWG OIL & GAS ACQUISITIONS LLC	938 476
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89	10*22296	FF	5-9-17.1	NOAH BAKER AND ALISA BAKER	962 200
90	10*22326	FF	5-9-17.1	RACHEL SONDA AND SCOTT SONDA	962 532
91	10*22407	FF	5-9-17.1	BRADLEY MURPHY	962 575
92	10*22430	FF	5-9-17.1	DEBORAH VANVRANKEN	964 510
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94	10*22492	FF	5-9-17.1	FAITH MARIE FREESTONE AND ERIC FREESTONE	972 50
95	10*22547	FF	5-9-17.1	LAWRENCE EDWARD MURPHY AND JOAN MARIE MURPHY	966 628
96	10*22566	FF	5-9-17.1	KENNETH A MILLER	964 233
97	10*22606	FF	5-9-17.1	ROBERT B MURPHY AND LINDA MURPHY	966 469
98	10*22636	FF	5-9-17.1	CHANDA WILSON AND DANIEL WILSON	968 226
99	10*23035	FF	5-9-17.1	DEAN S CARR	977 364
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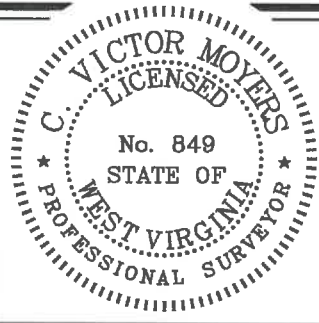
FILE NO. 8796P20HUAD.dwg
OLD CROW NORTH 20HU REV5

DATE JULY 9, 20 20

REVISED _____

OPERATORS WELL NO. OLD CROW N-20HU

API WELL NO. 47 — 051 — 2191
STATE COUNTY PERMIT



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



05/13/2022

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
CT CORPORATION SYSTEM
ADDRESS 5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

**OLD CROW N LEASE
UTICA UNIT - 503.48 AC ±
WELL 20HU
TUG HILL OPERATING**



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103	Q090332002	FF	5-9-17.1	LORETTA JEAN RIGGLE ET VIR	860 538
104	Q090332003	FF	5-9-17.1	PATTY BERISFORD ET VIR	860 555
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155	10*22407	HH	5-9-18	BRADLEY MURPHY	962 575
156	10*22430	HH	5-9-18	DEBORAH VANVRANKEN	964 510
157	10*22451	HH	5-9-18	GERALD L BISHOP III	964 31
158	10*22492	HH	5-9-18	FAITH MARIE FREESTONE AND ERIC FREESTONE	972 50
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168	Q090332003	HH	5-9-18	PATTY BERISFORD ET VIR	860 555
169	Q090332007	HH	5-9-18	ROBERT RANDOLPH WOODBURN ET UX	860 568
170	Q090332001	HH	5-9-18	WILLIAM E MILLER AND KAREN S MILLER	858 256
171	PENDING	HH	5-9-18	SANDRA PARDINI AKA KATHERINE S PARDINI AND ALLEN F PARDINI	1031 544
172	10*18796	II	5-9-42	DWG OIL & GAS ACQUISITIONS LLC	938 476
173	10*21414	II	5-9-42	CHARLES R STOCKTON AND BETTY M HUDSON	959 310
174	10*21473	II	5-9-42	MARY E BISHOP	957 232
175	10*21475	II	5-9-42	WOODROW N WARD AND HILDA A WARD	957 124
176	10*21478	II	5-9-42	CHILDRENS HOME SOCIETY OF WEST VIRGINIA	960 173
177	10*21547	II	5-9-42	GARY A MILLER AND MARCELLE T MILLER	952 370
178	10*21548	II	5-9-42	JEANNE M MILLER	952 386
179	10*21608	II	5-9-42	BONNIE LOU POSTLEWAIT	959 313
180	10*21719	II	5-9-42	ROBERT A MILLER	952 389
181	10*21835	II	5-9-42	KENNETH ALLEN AND CARLA JO ALLEN	962 572
182	10*21997	II	5-9-42	WHEELING SOCIETY FOR CRIPPLED CHILDREN JAY E PRAGER PRESIDENT	960 33
183	10*22043	II	5-9-42	CHILDRENS HOME SOCIETY OF WV	957 235
184	10*22044	II	5-9-42	MICHAEL A BISHOP	960 421
185	10*22045	II	5-9-42	DOUGLAS R BISHOP	961 417
186	10*22296	II	5-9-42	NOAH BAKER AND ALISA BAKER	962 200
187	10*22326	II	5-9-42	RACHEL SONDA AND SCOTT SONDA	962 532
188	10*22407	II	5-9-42	BRADLEY MURPHY	962 575
189	10*22430	II	5-9-42	DEBORAH VANVRANKEN	964 510
190	10*22451	II	5-9-42	GERALD L BISHOP III	964 31
191	10*22492	II	5-9-42	FAITH MARIE FREESTONE AND ERIC FREESTONE	972 50
192	10*22547	II	5-9-42	LAWRENCE EDWARD MURPHY AND JOAN MARIE MURPHY	966 628
193	10*22566	II	5-9-42	KENNETH A MILLER	964 233
194	10*22606	II	5-9-42	ROBERT B MURPHY AND LINDA MURPHY	966 469
195	10*22636	II	5-9-42	CHANDA WILSON AND DANIEL WILSON	968 226
196	10*23035	II	5-9-42	DEAN S CARR	977 364
197	10*23508	II	5-9-42	MICHAEL A MURPHY	1009 98
198	10*24888	II	5-9-42	ARTHUR LEE MILLER ET AL	1027 187
199	10*24984	II	5-9-42	JONATHAN BAKER	1027 558
200	Q090332002	II	5-9-42	LORETTA JEAN RIGGLE ET VIR	860 538

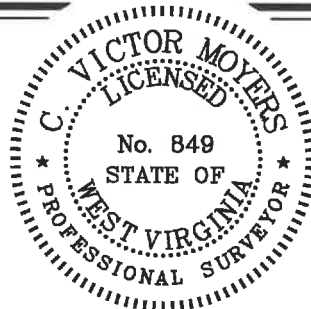
FILE NO. 8796P20HUAD.dwg
OLD CROW NORTH 20HU REV5

DATE JULY 9, 20 20

REVISED

OPERATORS WELL NO. OLD CROW N-20HU

API WELL NO. 47
STATE COUNTY PERMIT



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



05/13/2022

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

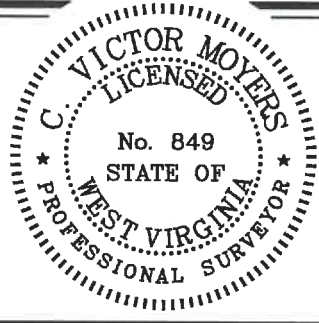
**OLD CROW N LEASE
UTICA UNIT - 503.48 AC ±
WELL 20HU
TUG HILL OPERATING**



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
stswv.com

No.	Lease Name or No.	Tag	Parcel	Grantor, Lessor, etc.	Deed Book/Page
201	Q090332003	II	5-9-42	PATTY BERISFORD ET VIR	860 555
202	Q090332007	II	5-9-42	ROBERT RANDOLPH WOODBURN ET UX	860 568
203	Q090332001	II	5-9-42	WILLIAM E MILLER AND KAREN S MILLER	858 256
204	PENDING	II	5-9-42	SANDRA PARDINI AKA KATHERINE S PARDINI AND ALLEN F PARDINI	1031 544
205	CVX866958	JJ	5-9-24	ANITA L SLOUGH ET AL	696 7
206	CVX866959	JJ	5-9-24	PAUL SCHEIBELHOOD ET AL	695 629
207	CVX935271	JJ	5-9-24	CHARLES W. MILLER	853 59
208	CVX936061	JJ	5-9-24	CLARA MAE CLIFTON	853 426
209	CVX936112	JJ	5-9-24	DONNA FAE KYLE	853 449
210	CVX936062	JJ	5-9-24	GEORGE EDWARDS ET UX	853 418
211	CVX936113	JJ	5-9-24	JUDITH MAY CONNER	853 445
212	CVX936053	JJ	5-9-24	LLOYD C. ARNOLD ET UX	864 39
213	CVX936054	JJ	5-9-24	MARY JO CRONIN	864 43
214	CVX935273	JJ	5-9-24	PAUL PARSONS ET UX	853 430
215	CVX936058	JJ	5-9-24	RICHARD KURPIL ET UX	863 594
216	CVX935276	JJ	5-9-24	SHARON LYN RUSSELL	853 422
217	CVX935969	JJ	5-9-24	TIMOTHY HUFF ET UX	864 47
218	10*47051.097.0	KK	5-9-7	P & D REALTY	859 434
219	PENDING	LL	5-9-41	LLOYD C ARNOLD AND JUDITH C ARNOLD	915 625
220	CVX939752	MM	5-9-4	LLOYD C ARNOLD AND JUDITH C ARNOLD	915 582
221	CVX866959	NN	5-9-35	ANITA L. SLOUGH ET AL	696 7
222	CVX866958	NN	5-9-35	PAUL SCHEIBELHOOD ET AL	695 629
223	CVX936061	NN	5-9-35	CLARA MAE CLIFTON	853 426
224	CVX936112	NN	5-9-35	DONNA FAE KYLE	853 449
225	CVX936062	NN	5-9-35	GEORGE EDWARDS ET UX	853 418
226	CVX936113	NN	5-9-35	JUDITH MAY CONNER	853 445
227	CVX936053	NN	5-9-35	LLOYD C. ARNOLD ET UX	864 39
228	CVX936054	NN	5-9-35	MARY JO CRONIN	864 43
229	CVX935273	NN	5-9-35	PAUL PARSONS ET UX	853 430
230	CVX936058	NN	5-9-35	RICHARD KURPIL ET UX	863 594
231	CVX935276	NN	5-9-35	SHARON LYN RUSSELL	853 422
232	CVX935969	NN	5-9-35	TIMOTHY HUFF ET UX	864 47
233	Q081124002	OO	5-9-3	JAMES REDMAN LEGG II ET AL	879 580
234	Q081124002	PP	5-9-2	JAMES REDMAN LEGG II ET AL	879 580
235	Q081129002	QQ	5-9-2.1	JEFFREY L LEGG	879 575
236	Q083757000	RR	5-9-1	JESSIE GLADYS RUCKMAN ET AL	831 58
237	10*21546	SS	5-8-7	EDWIN C MILLER AND KIMBERLY ANN MILLER	957 257

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