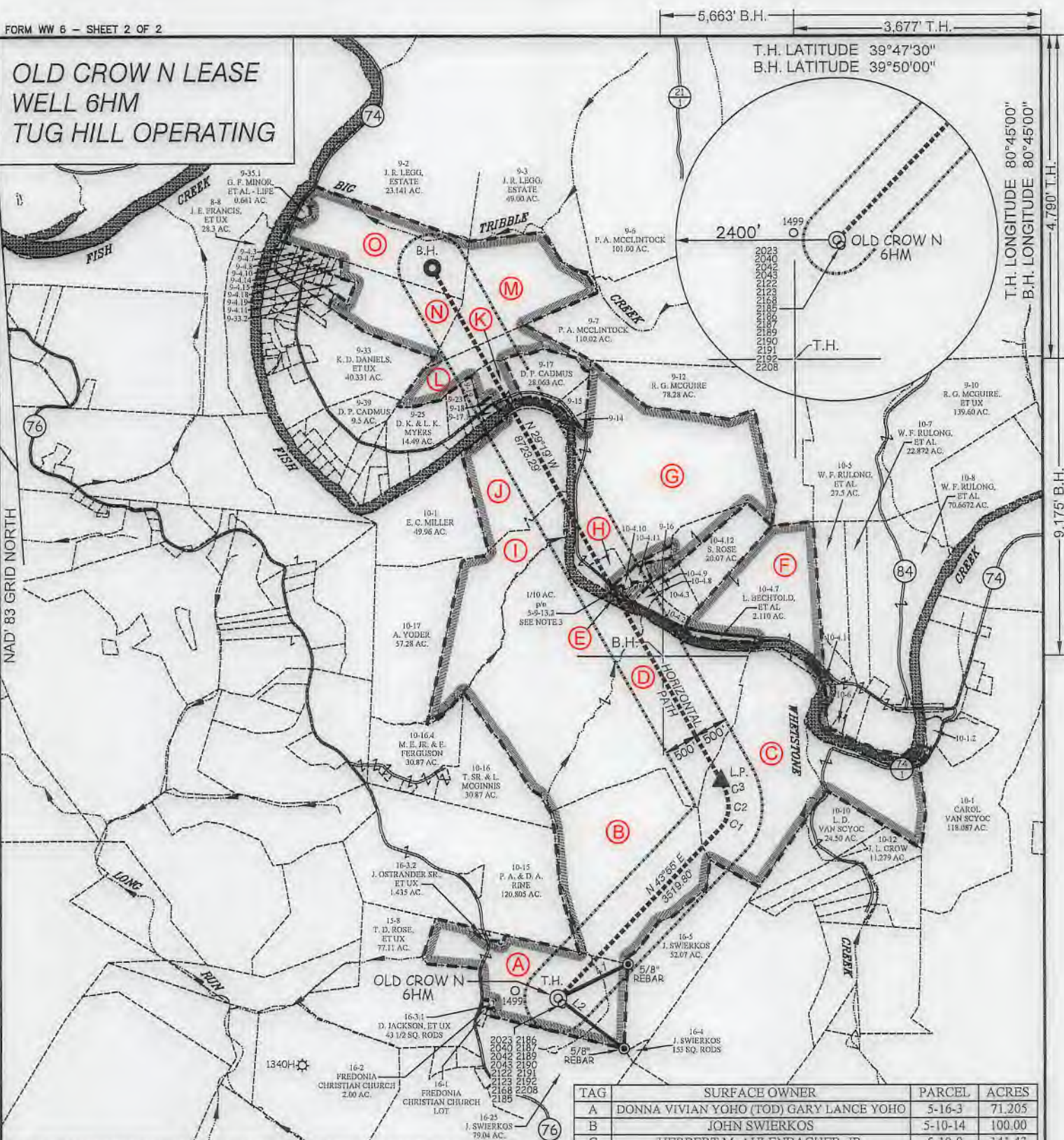


**OLD CROW N LEASE
WELL 6HM
TUG HILL OPERATING**



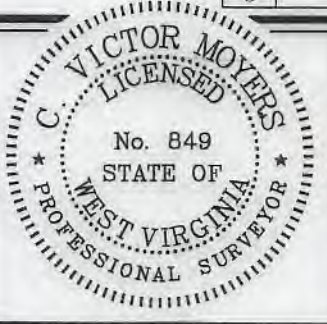
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	228.78'	390.63'	N 25°21' E	225.52'
C2	215.09'	621.62'	N 01°25' W	214.02'
C3	279.95'	872.61'	N 20°27' W	278.75'

TAG	SURFACE OWNER	PARCEL	ACRES
A	DONNA VIVIAN YOHO (TOD) GARY LANCE YOHO	5-16-3	71.205
B	JOHN SWIERKOS	5-10-14	100.00
C	HERBERT M. AULENBACHER, JR.	5-10-9	141.43
D	HERBERT M. AULENBACHER, JR.	5-10-3	225.50
E	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
F	SHEENA ROSE	5-10-4	74.229
G	JASON J. STEED	5-9-13.2	135.61
H	KAREN M. KAZEMKA (NKA KAREN M. WILSON)	5-9-13	3.69
I	WILLIAM A. PRASCIK, ET AL	5-10-2	52.00
J	EDWIN C. MILLER	5-9-20	51.64
K	DENNIS P. CADMUS	5-9-13.1	5.42
L	DENNIS P. CADMUS	5-9-24	21 AC 49 P.
M	LLOYD C. & JUDITH C. ARNOLD	5-9-41	93.00
N	LLOYD C. & JUDITH C. ARNOLD	5-9-4	18.854
O	LLOYD C. & JUDITH C. ARNOLD	5-9-35	47.00

LINE	BEARING	DISTANCE
L1	N 63°56' E	1159.85'
L2	S 52°48' E	1228.02'

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(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'83 S.P.C.(FT) N. 468,170.89 E. 1,613,521.72
 NAD'83 GEO. LAT-(N) 39.778517 LONG-(W) 80.763083
 NAD'83 UTM (M) N. 4,403,202.05 E. 520,288.37
LANDING POINT
 NAD'83 S.P.C.(FT) N. 471,385.1 E. 1,615,957.2
 NAD'83 GEO. LAT-(N) 39.787434 LONG-(W) 80.754578
 NAD'83 UTM (M) N. 4,404,193.7 E. 521,014.0
BOTTOM HOLE
 NAD'83 S.P.C.(FT) N. 478,991.1 E. 1,811,685.8
 NAD'83 GEO. LAT-(N) 39.808148 LONG-(W) 80.770159
 NAD'83 UTM (M) N. 4,406,489.1 E. 519,674.0



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

P.S. 849 *C. Victor Moyers*

LEGEND

LEASE LINE	
SURFACE LINE	
WELL LATERAL	
OFFSET LINE	
TI LINE	
CREEK	
ROAD	
COUNTY ROUTE	
PROPOSED WELL	
EXISTING WELL	
PERMITTED WELL	
TAX MAP-PARCEL	
SURFACE OWNER (SEE TABLE)	
LEASE # (SEE WW-6A1)	

SCALE 1" = 2000' FILE NO. 8798P6HM.dwg
 OLD CROW NORTH 6HM REV1
 DATE MAY 28, 20 19
 REVISED, 20
 OPERATORS WELL NO. OLD CROW N-6HM
 API WELL NO. 47
 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

5,663' B.H.

3,677' T.H.

**OLD CROW N LEASE
WELL 6HM
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. 468,170.89 E. 1,613,521.72
 NAD'83 GEO. LAT-(N) 39.778517 LONG-(W) 80.763083
 NAD'83 UTM (M) N. 4,403,202.05 E. 520,288.37
LANDING POINT
 NAD'83 S.P.C.(FT) N. 471,385.1 E. 1,615,957.2
 NAD'83 GEO. LAT-(N) 39.787434 LONG-(W) 80.764578
 NAD'83 UTM (M) N. 4,404,193.7 E. 521,014.0
BOTTOM HOLE
 NAD'83 S.P.C.(FT) N. 478,991.1 E. 1,611,685.8
 NAD'83 GEO. LAT-(N) 39.808148 LONG-(W) 80.770159
 NAD'83 UTM (M) N. 4,406,489.1 E. 519,674.0

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

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
5-9-4.3	HARRY E. KARR, JR., ET UX	1.471
5-9-4.7	FRANCIS D. BARR, ET UX	0.481
5-9-4.8	THOMAS MIDCAP, ET UX	0.376
5-9-4.10	DEBORAH S. MIDCAP	0.819
5-9-4.11	GARY PORTER	1.00
5-9-4.14	PAUL G. BROWN	0.500
5-9-4.15	PAUL G. BROWN	0.500
5-9-4.18	PAUL G. BROWN	0.657
5-9-4.19	SAMUEL L. CANTERBURY, ET UX	2.078
5-9-14	DENNIS P. CADMUS	136 POLES
5-9-15	DENNIS P. CADMUS	3.85
5-9-16	SHEENA ROSE	1.65
5-9-17.1	MARK S. STOCKLASK	1.187
5-9-18	MALCOMB H. BROWNLEE, ET AL	23,300 SQ. FT.
5-9-19	MARK STEPHEN STOCKLASK	2.38
5-9-23	DELBERT K. & LINDA K. MYERS	7.00
5-9-33.2	KEITH D. DANIELS, ET UX	1.534
5-10-1.2	JOSHUA A. & SHANNON N. HOYT	2.436
5-10-4.1	WILLIAM F. RULONG, ET AL	0.39
5-10-4.2	JACK E. RECTOR	2.887
5-10-4.3	ANTHONY A. & KAREN L. ANKROM	5.697
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
5-10-6	WILLIAM F. RULONG, ET AL	P/O 1.00

T.H.

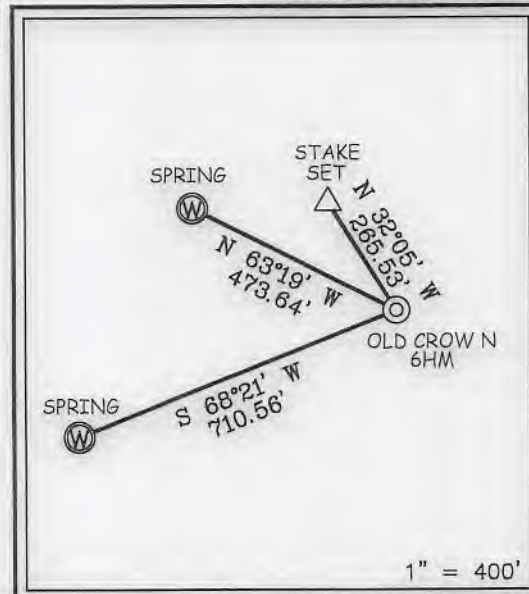
B.H.

9,175' 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 ARE 1"=2000'
- 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 843 PAGE 300, IS NOT CURRENTLY ACCOUNTED FOR WITHIN THE 135.61 ACRE ASSESSMENT OF SURFACE TAX MAP 5-9-13.2

REFERENCES

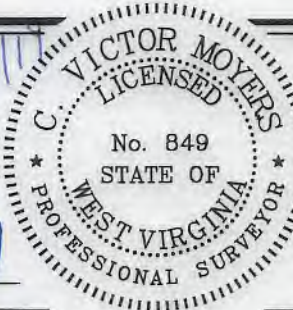


1" = 400'

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www.slsww.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 MAY 28, 20 19
 REVISED _____, 20 ____
 OPERATORS WELL NO. OLD CROW N-6HM
 API WELL NO. 47 - 51 - 02238
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8796P6HM.dwg
OLD CROW NORTH 6HM REV1
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

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

WELL TYPE: OIL _____ GAS X INJECTION _____ WASTE DISPOSAL _____ IF "GAS" PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X
 LOCATION: GROUND = 1,286.90' 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 ACREAGE 71.205±
 PROPOSED WORK: LEASE NO. SEE WW-6A1
 DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____ OTHER _____
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
 ESTIMATED DEPTH TVD: 6,716' / TMD: 16,964'

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

COUNTY NAME PERMIT