

**OLD CROW S LEASE
WELL 15HM
TUG HILL OPERATING**

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
5-10-5	WILLIAM F. RULONG, ET AL	27.50
5-10-6	WILLIAM F. RULONG, ET AL	P/O ACRE
5-10-7	WILLIAM F. RULONG, ET AL	22.872
5-10-8	WILLIAM F. RULONG, ET AL	79.6672
5-10-11	JOSEPH LEE CROW	P/O PCL 5
5-10-13.1	DAVID LEE QUIGLEY, JR.	2.88
5-16-10	FRANK P. LAUTAR EST.	5.00

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

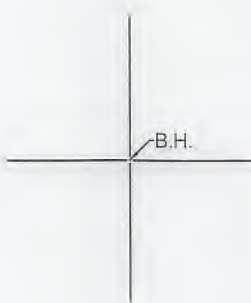
NAD'83 S.P.C.(FT)	N. 468,114.95	E. 1,613,584.39
NAD'83 GEO.	LAT-(N) 39.778366	LONG-(W) 80.762857
NAD'83 UTM (M)	N. 4,403,185.33	E. 520,307.74
<u>LANDING POINT</u>		
NAD'83 S.P.C.(FT)	N. 470,687.1	E. 1,617,103.5
NAD'83 GEO.	LAT-(N) 39.785561	LONG-(W) 80.750465
NAD'83 UTM (M)	N. 4,403,986.8	E. 521,366.8
<u>BOTTOM HOLE</u>		
NAD'83 S.P.C.(FT)	N. 463,020.6	E. 1,621,410.1
NAD'83 GEO.	LAT-(N) 39.764680	LONG-(W) 80.734766
NAD'83 UTM (M)	N. 4,401,673.1	E. 522,717.8

T.H. LENGTH 80°45'00"
B.H. LENGTH 80°42'30"
4,846' T.H.
9,831' B.H.

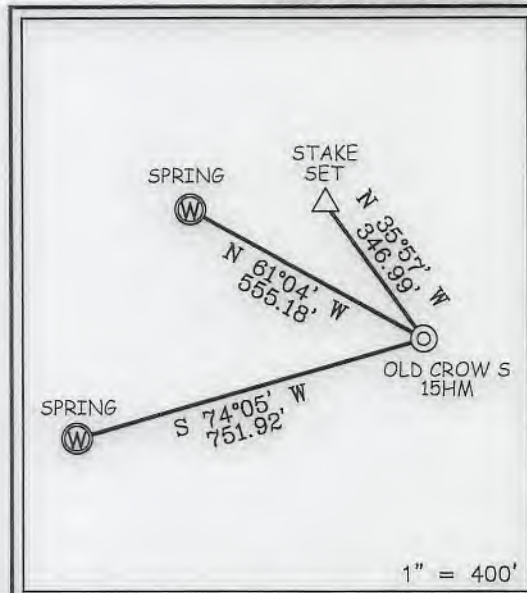
7,430' B.H. 3,614' T.H.

NOTES ON SURVEY

1. 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.
2. WELL SPOT CIRCLE & TOPO MARK SCALE ARE 1"=2000'



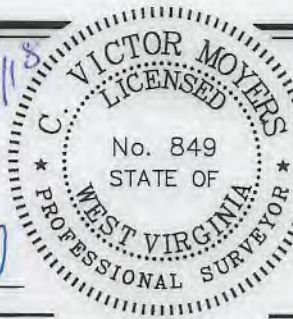
REFERENCES



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

dm
11/7/18



P.S. 849 C. Victor Moyers

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE JUNE 22, 20 18
REVISED OCTOBER 23, 20 18
OPERATORS WELL NO. OLD CROW S-15HM
API WELL NO. 47 - 051 - 02186
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8796P15HMR.dwg
OLD CROW NORTH 15HM REVO
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 LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: GROUND = 1,286.00' 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 CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

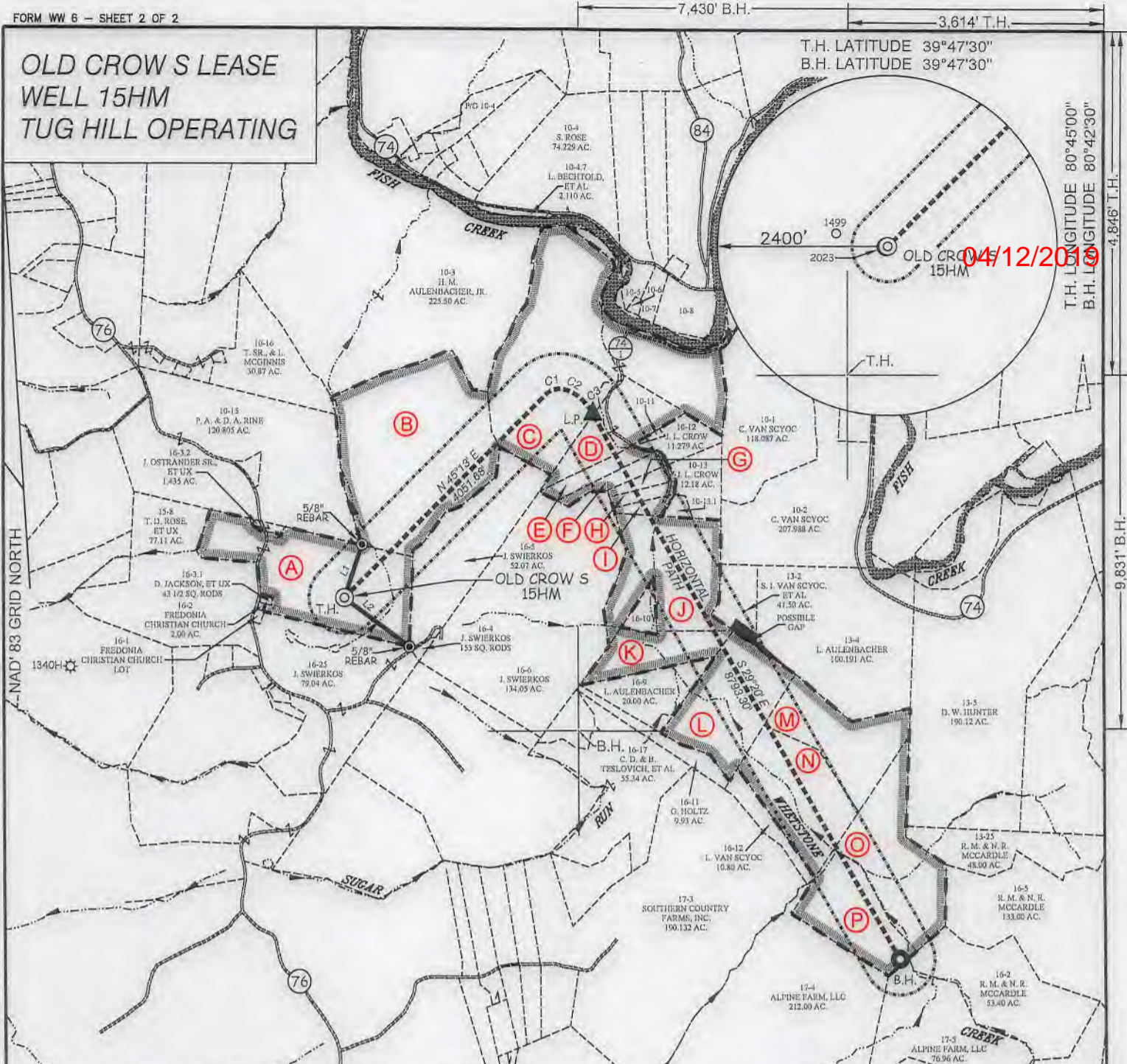
PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD: 6,726' / TMD: 17,358'

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

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CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	239.35'	276.11'	N 75°50' E	231.92'
C2	248.89'	505.05'	S 64°42' E	246.38'
C3	306.43'	811.25'	S 39°58' E	304.61'

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	LOUIS DELBERT VAN SCYOC	5-10-10	24.50
E	JOHN PAUL SMITH, JR., ET AL.	5-10-12.1	8.86
F	LOUIS AULENBACHER	5-10-22	6.461
G	LOUIS AULENBACHER	5-10-21	3.677
H	LOUIS AULENBACHER	5-10-20	3.554
I	BRADLEY L. & CONNIE L. HUBBARD	5-10-19	3.209
J	LOUIS AULENBACHER	5-16-7	50.00
K	LOUIS AULENBACHER	5-16-8	21.00
L	LOUIS VAN SCYOC	9-13-3	52.40
M	SYLVIA I. VAN SCYOC, ET AL.	9-13-2	41.5
N	LOUIS VAN SCYOC	5-13-1	46.13
O	ROBERT N. & NANCY R. MCCARDLE	9-16-1	46.80
P	DAVID ALAN RUBCICH, ET AL.	5-16-13	33.31

LINE	BEARING	DISTANCE
L1	N 18°37' E	783.29'
L2	S 53°08' E	1144.31'



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

P.S. 849 *C. Victor Moyers*

LEGEND

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

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

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 API WELL NO. 47-051-02186
 STATE COUNTY PERMIT

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 OFFICE OF OIL AND GAS

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