

7,427' B.H. A.D.

3,614' T.H. A.D.

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

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

(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
LANDING POINT
 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
BOTTOM HOLE
 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. LONGITUDE 80°45'00"
B.H. LONGITUDE 80°42'30"

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	70.6672
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

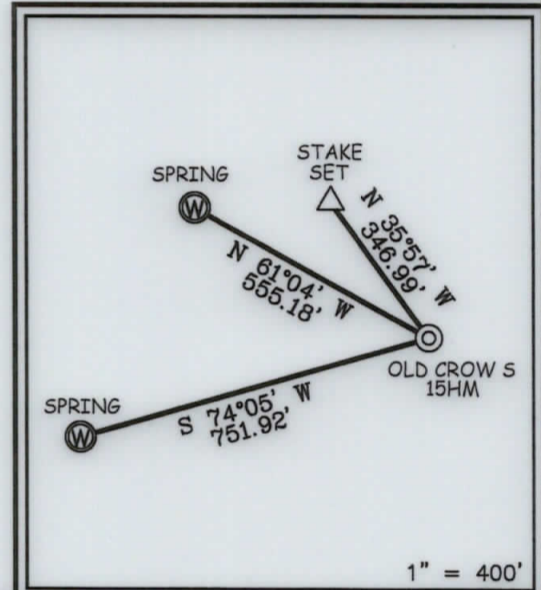
T.H.
A.D.

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 IS 1"=2000'
3. AS-DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC.
4. PLAT UPDATED TO SHOW AS-DRILLED PATH.

B.H.
A.D.

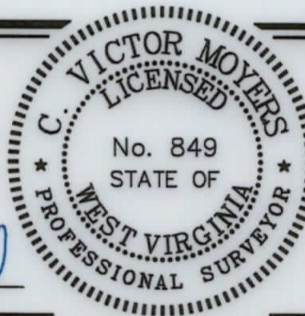
REFERENCES



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 25351 | 304.462.5634
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
 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 JUNE 10, 20 20
 REVISED _____, 20 ____
 OPERATORS WELL NO. OLD CROW S-15HM
 API WELL NO. 47 - 051 - 02186
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8796P15HMAD.dwg
OLD CROW NORTH 15HM REV0
 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 LIQUID INJECTION _____ WASTE DISPOSAL _____ IF "GAS" PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X
 LOCATION:
 ELEVATION 1,265' 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:
 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: 6,726' / TMD: 17,358'

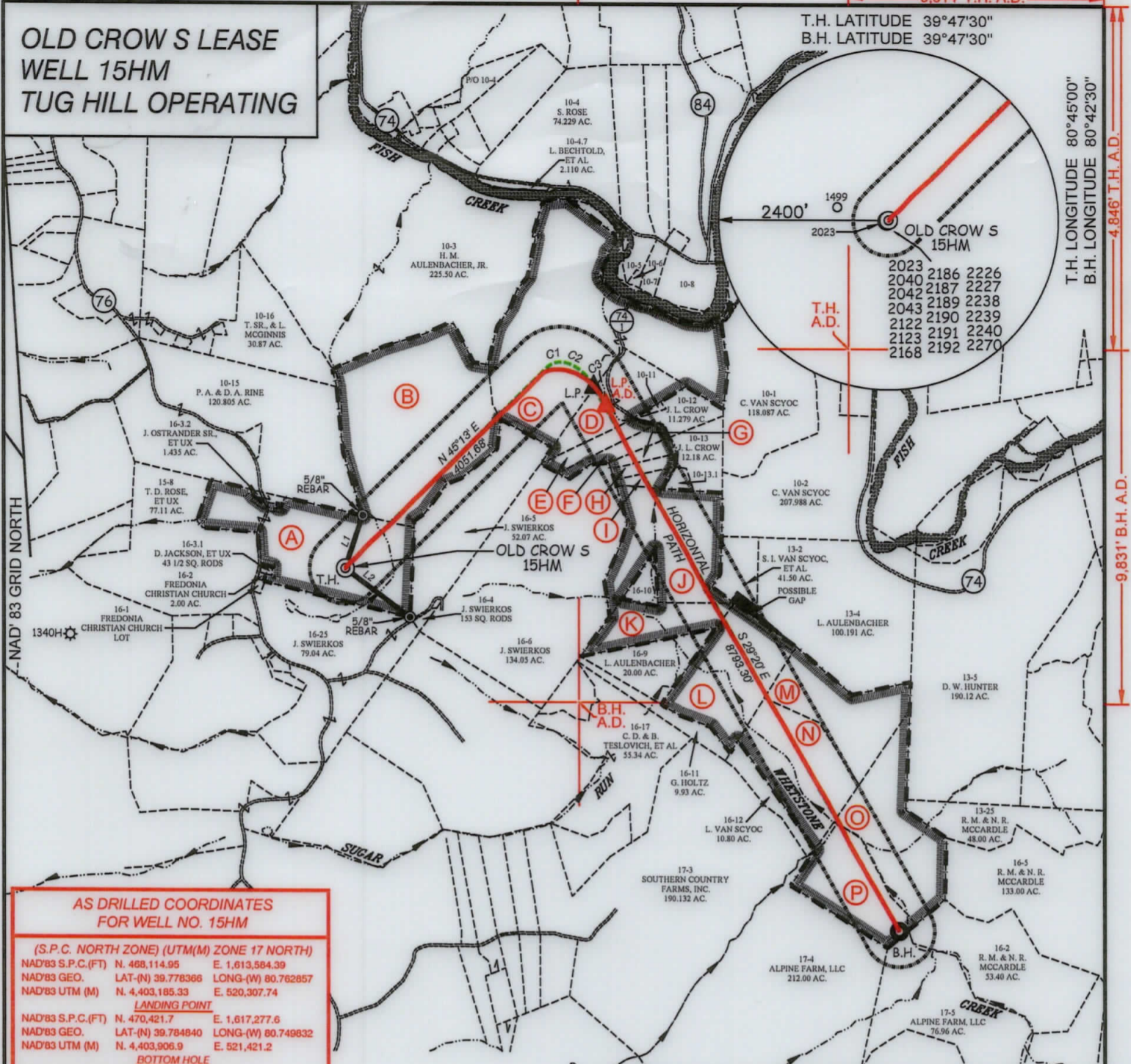
COUNTY NAME
PERMIT

08/27/2021

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 S LEASE
WELL 15HM
TUG HILL OPERATING**



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

T.H. LONGITUDE 80°45'00"
B.H. LONGITUDE 80°42'30"

2400'

1499

2023

OLD CROW S 15HM

2023	2186	2226
2040	2187	2227
2042	2187	2227
2043	2189	2238
2122	2190	2239
2123	2191	2240
2168	2192	2270

**AS DRILLED COORDINATES
FOR WELL NO. 15HM**

(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

LANDING POINT

NAD'83 S.P.C.(FT)	N. 470,421.7	E. 1,617,277.6
NAD'83 GEO.	LAT-(N) 39.784840	LONG-(W) 80.749832
NAD'83 UTM (M)	N. 4,403,906.9	E. 521,421.2

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 463,020.1	E. 1,621,413.3
NAD'83 GEO.	LAT-(N) 39.764679	LONG-(W) 80.734755
NAD'83 UTM (M)	N. 4,401,673.0	E. 522,718.8

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'

LEGEND

AS DRILLED

PROPOSED

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

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



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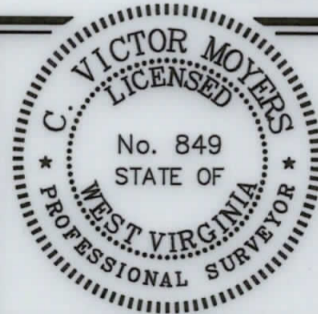
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(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

P.S. 849

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)

SCALE 1" = 2000' FILE NO. 8796P15HMAD.dwg
DATE JUNE 10, 2020
REVISED _____, 20____
OPERATORS WELL NO. OLD CROW S-15HM
API WELL NO. 47 - 051 - 02186
NO. STATE COUNTY PERMIT

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



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