

← 3,645' T.H. A.D. → 453' B.H. A.D. →

**OLD CROW S LEASE  
WELL 10HM  
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. 468,115.27	E. 1,613,552.50	
NAD'83 GEO.	LAT-(N) 39.778365	LONG-(W) 80.762971	
NAD'83 UTM (M)	N. 4,403,185.26	E. 520,298.03	
LANDING POINT			
NAD'83 S.P.C.(FT)	N. 470,148.3	E. 1,613,111.9	
NAD'83 GEO.	LAT-(N) 39.783929	LONG-(W) 80.764640	
NAD'83 UTM (M)	N. 4,403,802.4	E. 520,153.4	
BOTTOM HOLE			
NAD'83 S.P.C.(FT)	N. 463,813.2	E. 1,616,679.2	
NAD'83 GEO.	LAT-(N) 39.766676	LONG-(W) 80.751633	
NAD'83 UTM (M)	N. 4,401,890.5	E. 521,272.5	

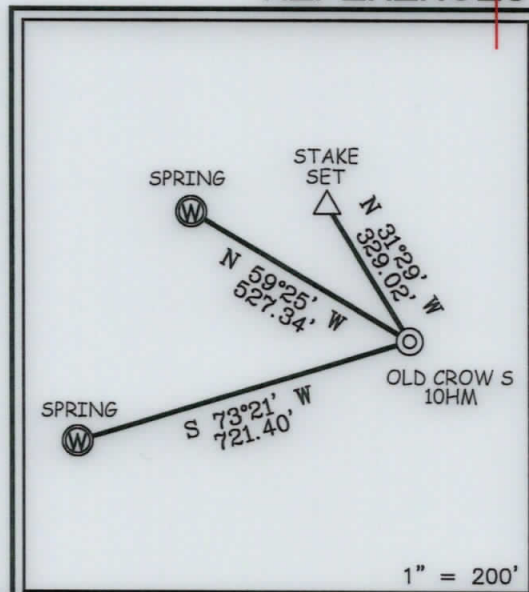
T.H. LONGITUDE 80°45'00"  
B.H. LONGITUDE 80°45'00"  
4,846' T.H. A.D.  
9,098' B.H. A.D.

**NOTES ON SURVEY**

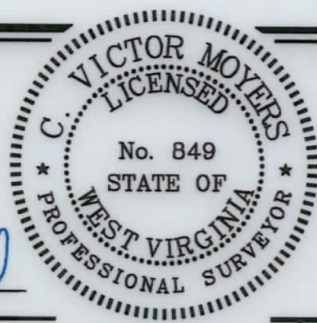
1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
2. WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'
3. AS-DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC.
4. PLAT UPDATED TO SHOW AS-DRILLED PATH.

B.H. A.D.

**REFERENCES**



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634  
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952  
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296  
sllsv.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-10HM  
API WELL NO. 47 - 051 - 2040  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8796P10HMAD.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  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

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 08/27/2021

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

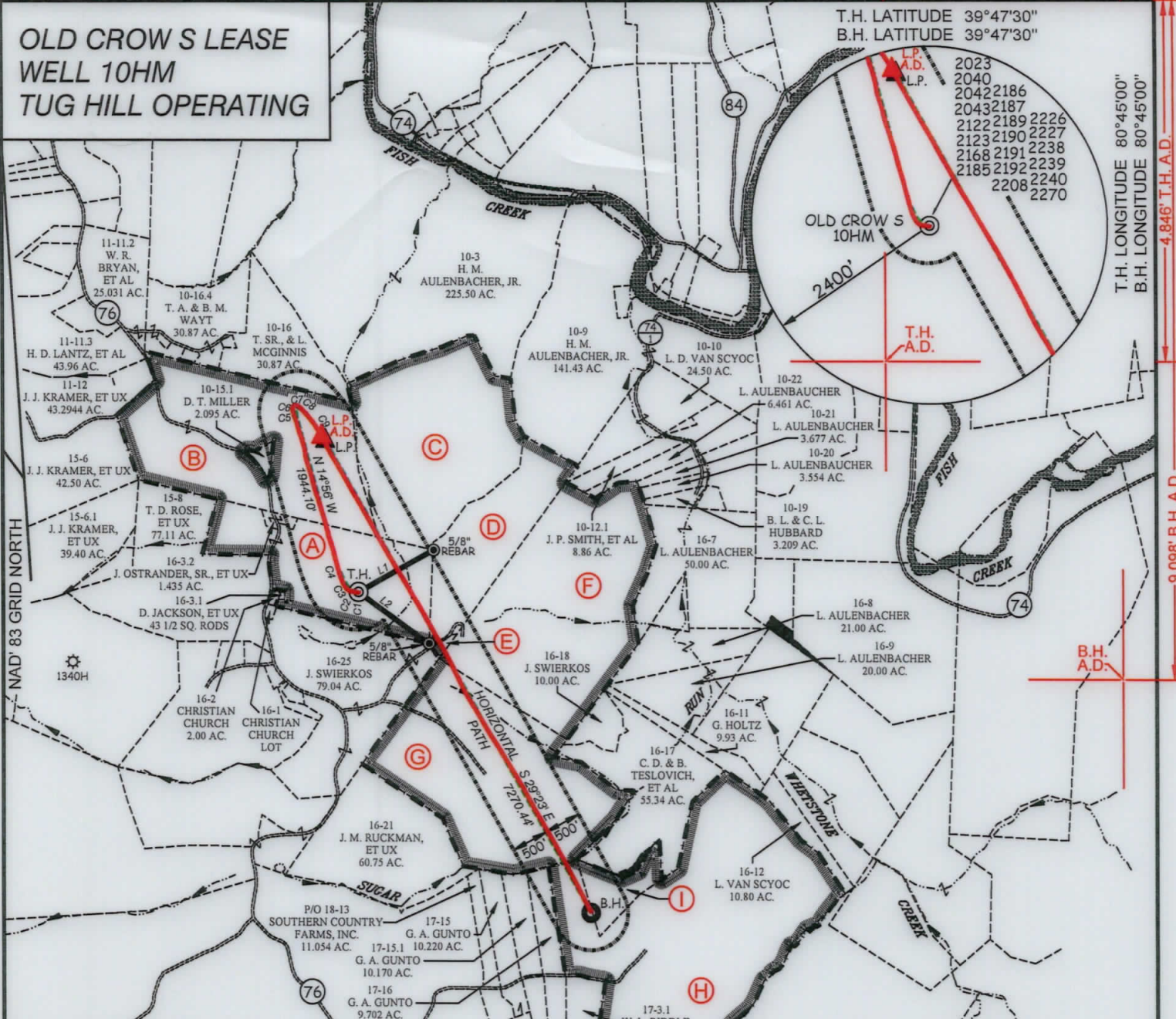
PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION MARCELLUS  
ESTIMATED DEPTH TVD: 6,689' / TMD: 15,008'

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

← 3,645' T.H. A.D. → 453' B.H. A.D. →

**OLD CROW S LEASE  
WELL 10HM  
TUG HILL OPERATING**



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B.H. LATITUDE 39°47'30"  
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4.846' T.H. A.D.  
9.098' B.H. A.D.

LINE	BEARING	DISTANCE
L1	N 60°48' E	1158.38'
L2	S 54°04' E	1170.16'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	34.69'	88.26'	S 88°32' W	34.47'
C2	64.11'	124.62'	N 68°05' W	63.40'
C3	174.41'	432.97'	N 37°13' W	173.23'
C4	332.27'	1833.54'	N 21°10' W	331.82'
C5	91.28'	300.07'	N 06°17' W	90.93'
C6	35.87'	43.25'	N 27°20' E	34.85'
C7	21.83'	32.93'	N 85°23' E	21.43'
C8	106.35'	234.08'	S 54°22' E	105.44'
C9	462.17'	1950.28'	S 35°07' E	461.09'

**AS DRILLED COORDINATES FOR WELL NO. 10HM**

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

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NAD'83 GEO.	LAT-(N) 39.778365	LONG-(W) 80.762971
NAD'83 UTM (M)	N. 4,403,185.26	E. 520,298.03

**LANDING POINT**

NAD'83 S.P.C.(FT)	N. 470,207.8	E. 1,613,061.7
NAD'83 GEO.	LAT-(N) 39.784090	LONG-(W) 80.764822
NAD'83 UTM (M)	N. 4,403,820.3	E. 520,137.9

**BOTTOM HOLE**

NAD'83 S.P.C.(FT)	N. 463,818.1	E. 1,616,685.0
NAD'83 GEO.	LAT-(N) 39.766689	LONG-(W) 80.751633
NAD'83 UTM (M)	N. 4,401,892.0	E. 521,274.2

TAG	SURFACE OWNER	PARCEL	ACRES
A	DONNA VIVIAN YOHO (TOD) GARY LANCE YOHO	5-16-3	71.205
B	PAUL ANDREW & DEBRA A. RINE	5-10-15	120.805
C	JOHN SWIERKOS	5-10-14	100.00
D	JOHN SWIERKOS	5-16-5	52.07
E	JOHN SWIERKOS	5-16-4	153 SQ. RODS
F	JOHN SWIERKOS	5-16-6	134.05
G	BETHANY A. REDO & ROBERT W. RAHM	5-16-19	129.16
H	SOUTHERN COUNTRY FARMS, INC.	5-17-3	190.132
I	SOUTHERN COUNTRY FARMS, INC.	5-16-16	9.75



12 Vanhorn Drive | P.O. Box 150 | Glenview, 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  
slswv.com

**LEGEND**

AS DRILLED ——— (Red line)

PROPOSED - - - - - (Green dashed line)



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

P.S. 849 *C. Victor Moyers*

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**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)

08/27/2021

SCALE 1" = 2000' FILE NO. 8796P10HMAD.dwg

DATE JUNE 10, 20 20

REVISED \_\_\_\_\_, 20 \_\_\_\_\_

OPERATORS WELL NO. OLD CROW S-10HM

API WELL NO. 47 — 051 — 2040

NO. STATE COUNTY PERMIT

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

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