

10,803' B.H. A.D.

3,618' T.H. A.D.

**OLD CROW S LEASE  
WELL 12HM  
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. 468,091.30 E. 1,613,579.36  
NAD'83 GEO. LAT-(N) 39.778300 LONG-(W) 80.762874  
NAD'83 UTM (M) N. 4,403,178.09 E. 520,306.33

LANDING POINT

NAD'83 S.P.C.(FT) N. 470,658.1 E. 1,614,545.1  
NAD'83 GEO. LAT-(N) 39.785384 LONG-(W) 80.759566  
NAD'83 UTM (M) N. 4,403,965.0 E. 520,587.5

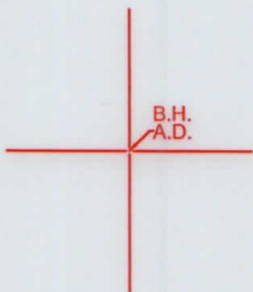
BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 464,448.5 E. 1,618,042.8  
NAD'83 GEO. LAT-(N) 39.768472 LONG-(W) 80.746814  
NAD'83 UTM (M) N. 4,402,091.0 E. 521,684.7

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

4,869' T.H. A.D.  
8,449' B.H. A.D.

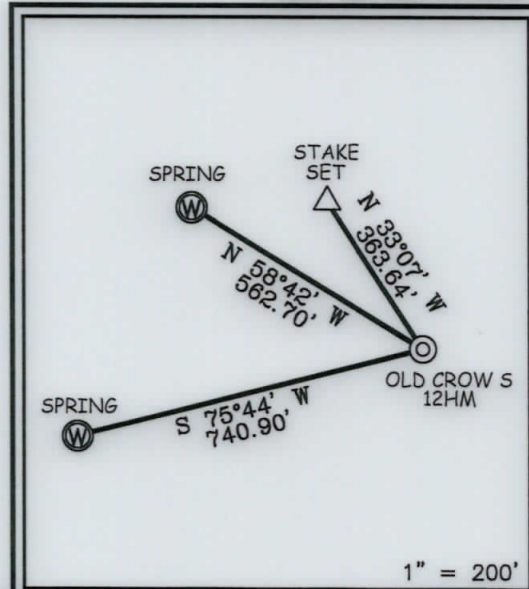
MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
5-10-12.1	JOHN PAUL SMITH, JR., ET AL	8.86
5-10-19	BRADLEY L. & CONNIE L. HUBBARD	3.209
5-10-20	LOUIS AULENBAUCHER	3.554
5-10-21	LOUIS AULENBAUCHER	3.677
5-10-22	LOUIS AULENBAUCHER	6.461
5-16-4	JOHN SWIERKOS	153 SQ. RODS
5-17-1.6	LOLA M. SLAUGHTER	6.347
5-17-3.1	WILBUR L. RIDDLE, ET UX	10.148
5-17-16	GLEN GUNTO	9.702



**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.

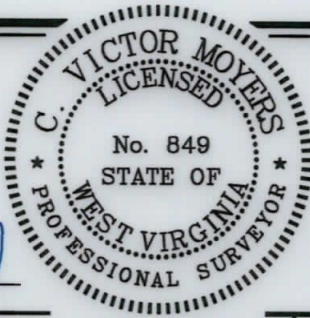
**REFERENCES**



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  
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*



STATES TOPOGRAPHIC MAPS.  
DATE JUNE 10, 20 20  
REVISED \_\_\_\_\_, 20 \_\_\_\_\_  
OPERATORS WELL NO. OLD CROW S-12HM  
API WELL NO. 47 - 051 - 2043  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8796P12HMAD.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 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) \_\_\_\_\_ TARGET FORMATION MARCELLUS  
ESTIMATED DEPTH TVD: 6,699' / TMD: 15,107'

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

08/27/2021

10,803' B.H. A.D.

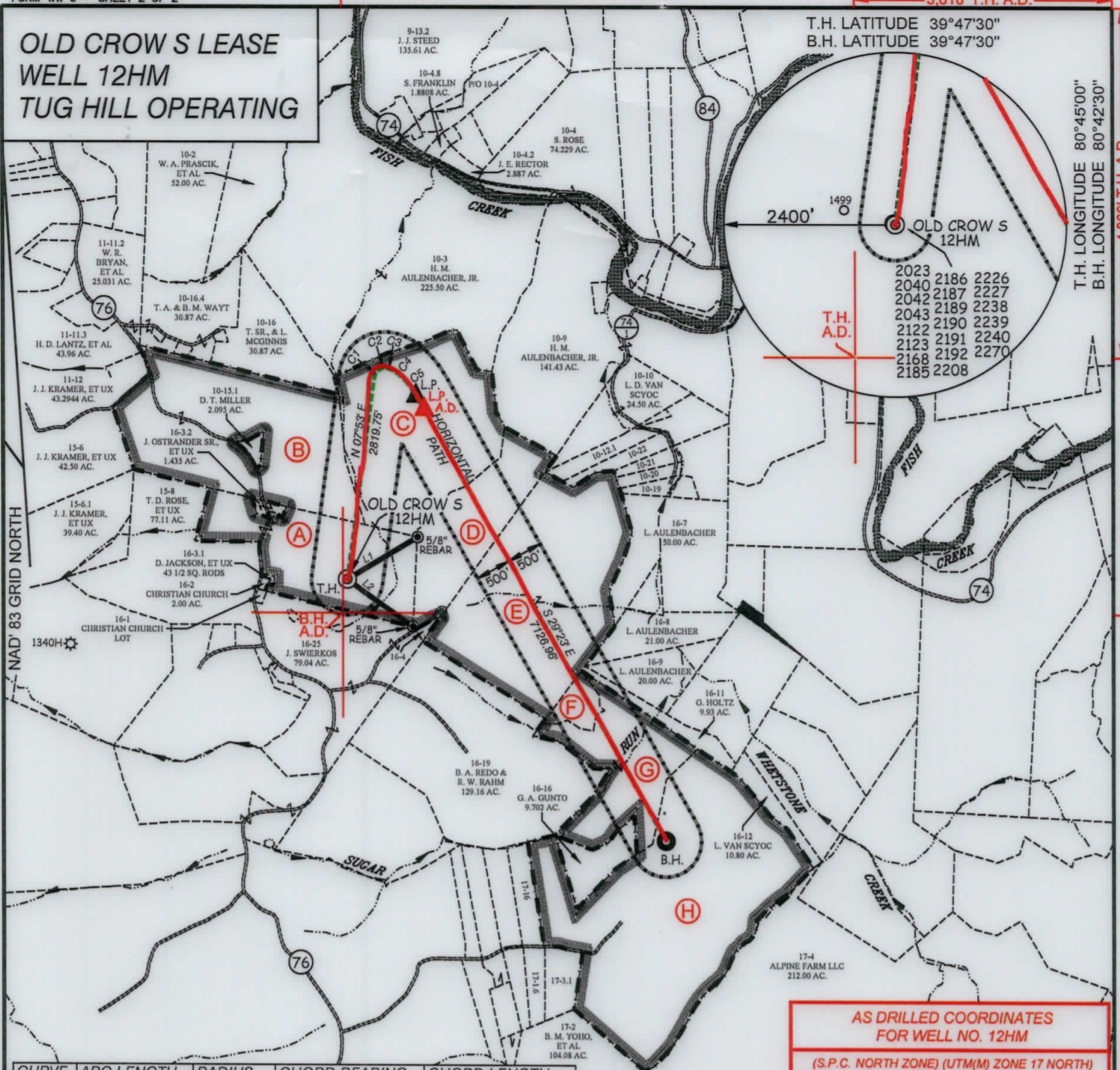
3,618' T.H. A.D.

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WELL 12HM  
TUG HILL OPERATING**

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B.H. LATITUDE 39°47'30"

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

8,449' B.H. A.D.



**AS DRILLED COORDINATES  
FOR WELL NO. 12HM**

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)			
NAD'83 S.P.C.(FT)	N. 468,091.30	E. 1,613,579.36	
NAD'83 GEO.	LAT-(N) 39.778300	LONG-(W) 80.762874	
NAD'83 UTM (M)	N. 4,403,178.09	E. 520,306.33	
LANDING POINT			
NAD'83 S.P.C.(FT)	N. 470,470.9	E. 1,614,660.5	
NAD'83 GEO.	LAT-(N) 39.784874	LONG-(W) 80.759146	
NAD'83 UTM (M)	N. 4,403,908.5	E. 520,623.6	
BOTTOM HOLE			
NAD'83 S.P.C.(FT)	N. 464,448.5	E. 1,618,056.2	
NAD'83 GEO.	LAT-(N) 39.768472	LONG-(W) 80.746767	
NAD'83 UTM (M)	N. 4,402,091.1	E. 521,688.8	

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	157.77'	186.37'	N 28°11' E	153.10'
C2	109.74'	142.20'	N 81°02' E	107.04'
C3	59.91'	257.60'	S 72°15' E	59.78'
C4	189.86'	575.37'	S 54°44' E	189.00'
C5	315.43'	1129.70'	S 37°09' E	314.41'

**LEGEND**

AS DRILLED —

PROPOSED - - -

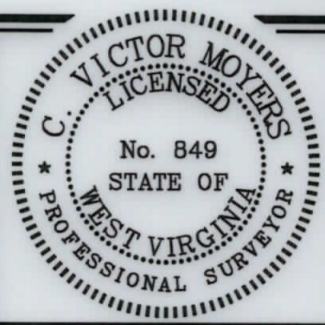
TAG	SURFACE OWNER	PARCEL	ACRES
A	DONNA VIVIAN YOHO (TOD) GARY LANCE YOHO	5-16-3	71.205
B	PAUL ANDREW & DEBRA A. RINE	5-10-15	120.805
C	JOHN SWIERKOS	5-10-14	100.00
D	JOHN SWIERKOS	5-16-5	52.07
E	JOHN SWIERKOS	5-16-6	134.05
F	JOHN SWIERKOS	5-16-18	10.00
G	CARA DAVIS & BRIAN TESLOVICH, ET AL	5-16-17	55.34
H	SOUTHERN COUNTRY FARMS, INC.	5-17-3	190.132



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 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296  
 slswv.com

LINE	BEARING	DISTANCE
L1	N 59°06' E	1147.14'
L2	S 54°15' E	1134.36'

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(+) 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)

SCALE 1" = 2000' FILE NO. 8796P12HMAD.dwg

DATE JUNE 10, 20 20

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

OPERATORS WELL NO. OLD CROW S-12HM

API WELL NO. 47 — 051 — 2043

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