

**OLD CROW N LEASE  
WELL 4HM  
TUG HILL OPERATING**

T.H. LATITUDE 39°47'30"  
B.H. LATITUDE 39°50'00"

3,682' T.H. A.D.

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

NAD'83 S.P.C.(FT)	N. 468,147.23	E. 1,613,516.69
NAD'83 GEO.	LAT-(N) 39.778452	LONG-(W) 80.763100
NAD'83 UTM (M)	N. 4,403,194.81	E. 520,286.96

LANDING POINT

NAD'83 S.P.C.(FT)	N. 471,093.7	E. 1,614,402.3
NAD'83 GEO.	LAT-(N) 39.786574	LONG-(W) 80.760096
NAD'83 UTM (M)	N. 4,404,097.0	E. 520,541.8

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 479,741.4	E. 1,609,550.8
NAD'83 GEO.	LAT-(N) 39.810124	LONG-(W) 80.777796
NAD'83 UTM (M)	N. 4,406,706.8	E. 519,019.7

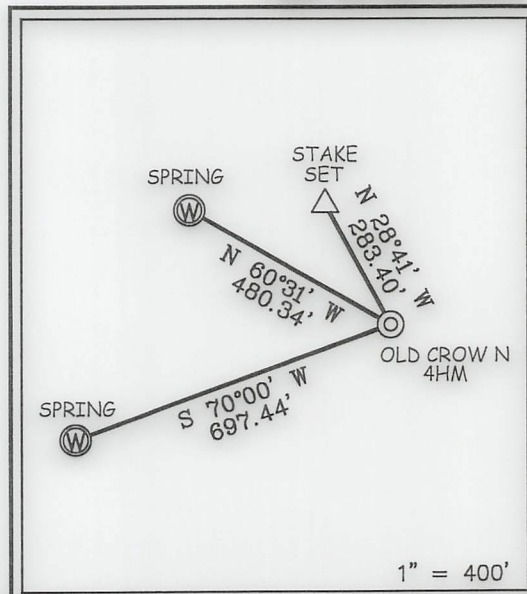
T.H. LONGITUDE 80°45'00"  
B.H. LONGITUDE 80°45'00"  
4,814' T.H. A.D.  
8,456' B.H. A.D.

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
5-9-4.3	HARRY E. KARR, JR., ET UX	1.471
5-9-4.5	DYLAN AULENBACHER	0.991 & PCL 10x40x50
5-9-4.7	FRANCIS D. BARR, ET UX	0.481
5-9-4.9	THOMAS MIDCAP, ET UX	0.375
5-9-4.12	SAMUEL L. & DEBRA N. CANTERBURY	0.650
5-9-4.13	SAMUEL LEE CANTERBURY, ET UX	0.9284
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
5-9-23	DELBERT K. & LINDA K. MYERS	7.00
5-9-26	EDWIN C. MILLER	1.00
5-9-28	WILLIAM N. & DOLORES E. MCDONOUGH - LIFE	4.01
5-9-29	JAMES M. & ROBERTA L. STERN	3.1777
5-9-30	MATTHEW B. GRIFFITH	2.708
5-9-30.1	DAVID JR., & MELISSA LOVE	2.518
5-9-30.3	MATTHEW B. GRIFFITH	0.82
5-9-32	SANDRA J. BONNETTE	2.321
5-9-32.5	GARNET D. MIDCAP	PCL 270 x 390
5-9-32.8	TIMOTHY Q. HOYT, ET UX	0.711
5-9-32.9	LIONEL E. HENRY SR., ET AL	1.269
5-9-32.10	TIMOTHY Q. HOYT, ET UX	0.588
5-9-32.11	TIMOTHY Q. HOYT, ET UX	1.717
5-9-33.1	KEITH D. & BEVERLY A. DANIELS	1.00
5-9-33.2	KEITH D. DANIELS, ET UX	1.534
5-9-33.4	DAVID D. & CHRISTINE S. DANIELS	1.025
5-9-36	FRANK T. & ANNA M. WALKER	PARCEL
5-9-38	SHIRLEY A. HILL EST.	3.331
5-9-40	SHIRLEY A. HILL EST.	PCL 368 x 425

**NOTES ON SURVEY**

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS OR DWELLINGS > 2500 SQ. FT. WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.
- BASED ON WV DOT COUNTY ROUTE 74 IS A 40' STRIP OF LAND ACQUIRED IN NUMEROUS DEEDS.
- PLAT UPDATED TO SHOW AS-DRILLED PATH.
- AS DRILLED DATA PROVIDED BY TUG HILL OPERATING.

**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. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE JANUARY 17, 20 23  
REVISED \_\_\_\_\_, 20 \_\_\_\_\_  
OPERATORS WELL NO. OLD CROW N-4HM  
API WELL NO. 47 - 051 - 02227  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8796P4HMAD.dwg  
OLD CROW NORTH 4HM 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 LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_ IF "GAS" PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X

LOCATION: GROUND = 1,286.40' 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: 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: 6,694' / TMD: 17,638'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DARREN BROWN - CT CORPORATION  
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5098 WASHINGTON ST. W, STE 407  
FORT WORTH, TX 76107 CHARLESTON, WV 25313-1561

COUNTY NAME PERMIT

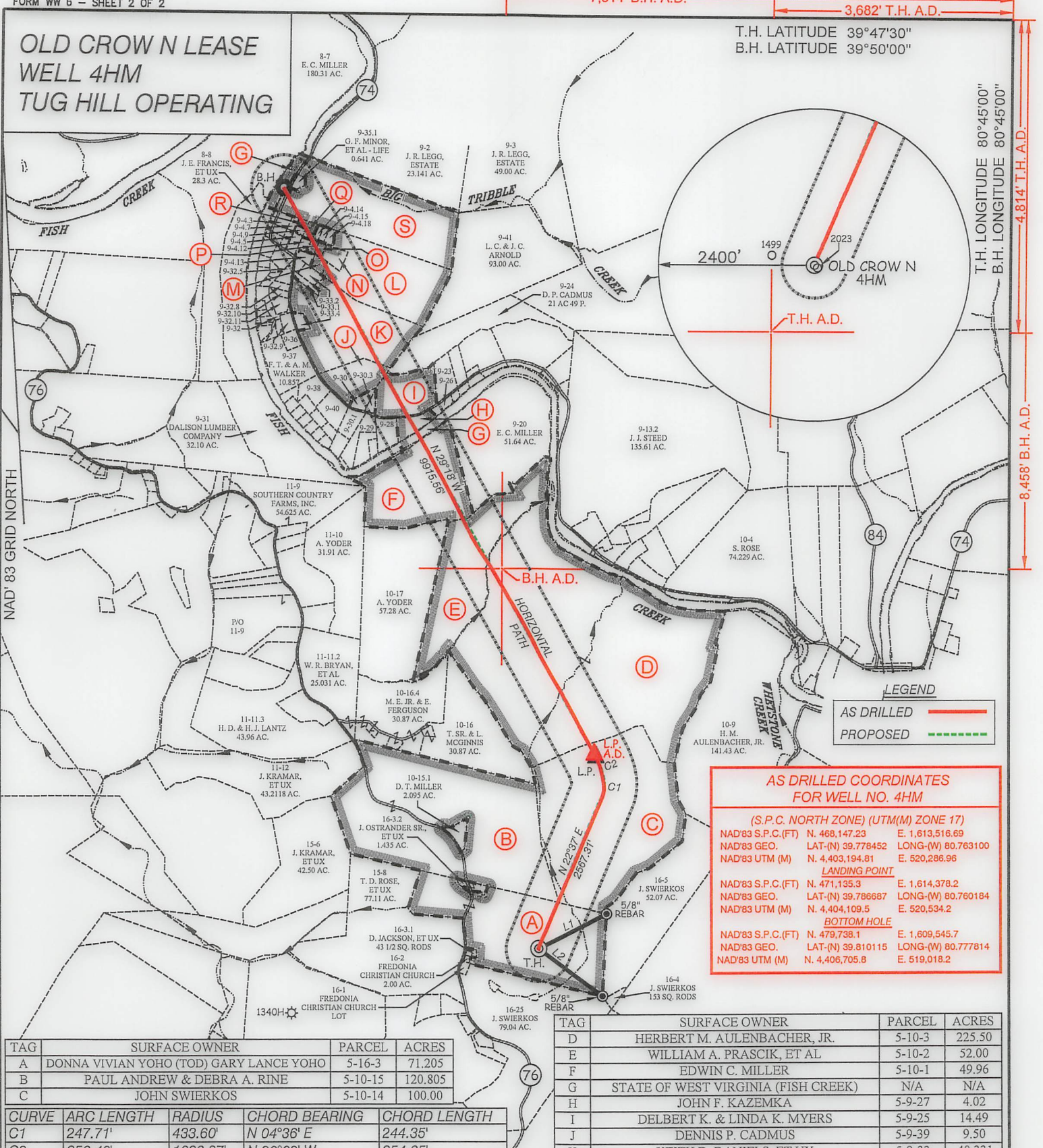
03/17/2023



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WELL 4HM  
TUG HILL OPERATING**

T.H. LATITUDE 39°47'30"  
B.H. LATITUDE 39°50'00"

T.H. LONGITUDE 80°45'00"  
B.H. LONGITUDE 80°45'00"  
4,814' T.H. A.D.  
8,458' B.H. A.D.



**LEGEND**

AS DRILLED ——— (Red line)

PROPOSED - - - - - (Green dashed line)

**AS DRILLED COORDINATES FOR WELL NO. 4HM**

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

NAD'83 S.P.C. (FT)	N. 468,147.23	E. 1,613,516.69
NAD'83 GEO.	LAT-(N) 39.778452	LONG-(W) 80.763100
NAD'83 UTM (M)	N. 4,403,194.81	E. 520,286.96

**LANDING POINT**

NAD'83 S.P.C. (FT)	N. 471,135.3	E. 1,614,378.2
NAD'83 GEO.	LAT-(N) 39.786687	LONG-(W) 80.760184
NAD'83 UTM (M)	N. 4,404,109.5	E. 520,534.2

**BOTTOM HOLE**

NAD'83 S.P.C. (FT)	N. 479,738.1	E. 1,609,545.7
NAD'83 GEO.	LAT-(N) 39.810115	LONG-(W) 80.777814
NAD'83 UTM (M)	N. 4,406,705.8	E. 519,018.2

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

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	247.71'	433.60'	N 04°36' E	244.35'
C2	356.40'	1036.87'	N 20°03' W	354.65'

TAG	SURFACE OWNER	PARCEL	ACRES
D	HERBERT M. AULENBACHER, JR.	5-10-3	225.50
E	WILLIAM A. PRASCIC, ET AL	5-10-2	52.00
F	EDWIN C. MILLER	5-10-1	49.96
G	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
H	JOHN F. KAZEMKA	5-9-27	4.02
I	DELBERT K. & LINDA K. MYERS	5-9-25	14.49
J	DENNIS P. CADMUS	5-9-39	9.50
K	KEITH D. DANIELS, ET UX	5-9-33	40.331
L	LLOYD C. & JUDITH C. ARNOLD	5-9-4	18.854
M	GARY PORTER	5-9-4.11	1.00
N	SAMUEL L. CANTERBURY, ET UX	5-9-4.19	2.078
O	SAMUEL L. CANTERBURY, ET UX	5-9-4.17	0.500
P	SAMUEL L. CANTERBURY, ET UX	5-9-4.16	0.517
Q	DEBORAH S. MIDCAP	5-9-4.10	0.819
R	THOMAS MIDCAP, ET UX	5-9-4.8	0.376
S	LLOYD C. & JUDITH C. ARNOLD	5-9-35	47.00

LINE	BEARING	DISTANCE
L1	N 63°00' E	1174.92'
L2	S 53°50' E	1217.93'



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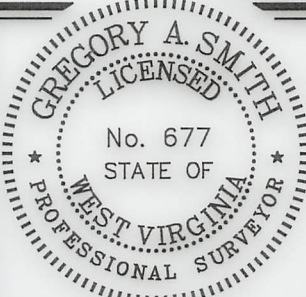
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(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

P.S. 677 *Gregory A. Smith*

**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. 8796P4HMAD.dwg  
OLD CROW NORTH 4HM REV1  
DATE JANUARY 17, 20 23  
REVISED \_\_\_\_\_, 20 \_\_\_\_  
OPERATORS WELL NO. OLD CROWN-4HM  
API WELL NO. 47 — 051 — 02227  
NO. STATE COUNTY PERMIT

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

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