

**OLD CROW N LEASE
WELL 2HM
TUG HILL OPERATING**

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

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17)		
NAD'83 S.P.C.(FT)	N. 468,163.21	E. 1,613,498.78
NAD'83 GEO.	LAT-(N) 39.778495	LONG-(W) 80.763164
NAD'83 UTM (M)	N. 4,403,199.59	E. 520,281.42
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 470,583.9	E. 1,612,969.1
NAD'83 GEO.	LAT-(N) 39.785119	LONG-(W) 80.765170
NAD'83 UTM (M)	N. 4,403,934.4	E. 520,107.7
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 482,370.7	E. 1,606,336.1
NAD'83 GEO.	LAT-(N) 39.817216	LONG-(W) 80.789372
NAD'83 UTM (M)	N. 4,407,491.5	E. 518,027.0

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

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
5-8A-13	LETHA I. RUCKMAN	2.993
5-8A-14	BOARD OF EDUCATION	137 SQ RODS
5-8A-34	NORMAN G. JOHNSON ET UX - LIFE	11,123 SQ. FT.
5-8A-35	JARED C. SELLS	2.78
5-8A-36	WILLIAM J. GAMBLE ET UX	1.031
5-8A-42	ROBERT M. WHITE	7.23
5-8A-43	CHARLES G. STEIN & EVA A. WADE	75x100'
5-8A-44	CHARLES G. STEIN & EVA A. WADE	32 SQ POLES
5-8A-48	RAYMOND A., JR. & LARIETTE SCOTT	2.12
5-8A-49	RAYMOND A., JR. & LARIETTE SCOTT	0.159
5-8A-50	LUCRETIA M. HARRISON	0.277
5-8A-54	DONALD D. & CHRISTINE S. DANIELS	0.68
5-8A-54.1	DONALD D. & CHRISTINE S. DANIELS	0.69
5-8-4.1	FRANCES E. NIEMAN	33.46
5-9-1.1	FRANK C. CLARK	0.52
5-9-1.4	SHELDON R. RUCKMAN ET AL - LIFE	4.49
5-9-4.1	HARRY E., JR. & MICHELA KARR	0.812
5-9-4.2	LINDA J. SIMMONS	0.80
5-9-4.3	HARRY E. KARR, JR. ET UX	1.471
5-9-29	JAMES M. & ROBERTA L. STERN	3.177
5-9-30.2	LIGHTHOUSE TABERNACLE TRUSTEES	1.954
5-9-32	MILLARD JUNIOR BONNETTE ET UX	2.321
5-9-32.1	JOHN DRAKE ALBAUGH	1.002
5-9-32.2	JOHN DRAKE ALBAUGH	0.231
5-9-32.3	RUBY M. HENRY ESTATE	0.552
5-9-32.6	RUBY M. HENRY ESTATE	0.474
5-9-32.7	JOHN D. ALBAUGH	0.729
5-9-32.9	LIONEL E. HENRY SR. ET UX	1.269
5-9-32.12	JOHN DRAKE ALBAUGH	PARCEL
5-9-32.13	JOHN D. ALBAUGH	0.848
5-9-34	LOUIS D. & PATRICIA L. VAN SCYOC	0.850
5-9-34.1	LOUIS D. & PATRICIA L. VAN SCYOC	0.556
5-9-34.4	LOUIS D. SCYOC ET UX	1.042
5-9-36	FRANK T. & ANNA M. WALKER	1.55
5-9-38	SHIRLEY A. HILL ESTATE	3.331
5-9-38.5	JOHN D. & MARSHA J. ROBERTS	0.619
5-9-38.6	JOHN D. & MARSHA J. ROBERTS	0.719
5-9-38.8	JOHN D. ROBERTS ET UX	0.903
5-9-38.9	JOHN D. ROBERTS ET UX	1.017
5-9-39	DENNIS P/ CADMUS	9.5
5-11-1.5	PAUL & SANDY WHITT	3.507
5-11-1.7	WILLIAM S. & MARY K. ADAMS	8.00
5-11-6	ROBERT & REBECCA ARRICK	1.29
5-11-7	MT. HOBART MISSIONARY BAPTIST CHURCH	0.25
5-11-8	MT. HOBART MISSIONARY BAPTIST CHURCH	0.8
5-11-9.1	WILLIAM N. & VIRGINIA A. ROUPE	4.527
5-11-9.4	JACK S. HUGGINS, ET UX	4.129
5-11-9.7	SEAN F. MOORE	2.026
5-11-9.8	SEAN F. MOORE	2.070
5-11-9.10	JOHN A. & JANET L. BEUCKE	2.348

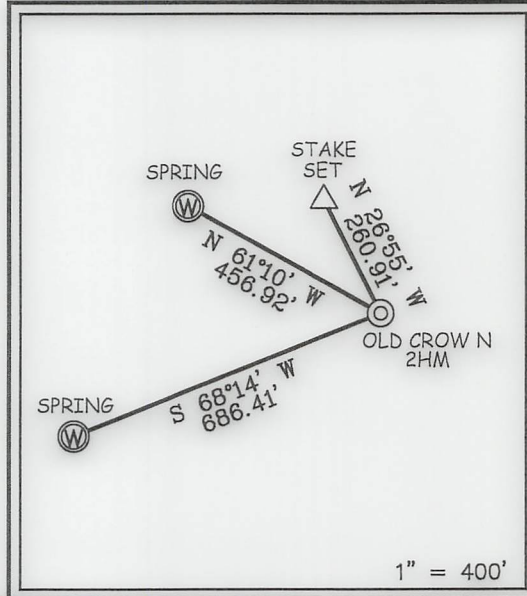
B.H. A.D.

T.H. A.D.

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'.
- PLAT UPDATED TO SHOW AS-DRILLED PATH.
- AS DRILLED DATA PROVIDED BY TUG HILL OPERATING.

REFERENCES



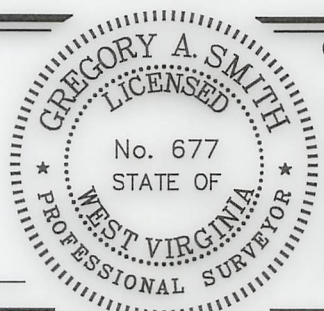
1" = 400'



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 _____
OPERATORS WELL NO. OLD CROW N-2HM
API WELL NO. 47 - 051 - 02192
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8796P2HMAD.dwg
SCALE 1" = 2000'
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)
OLD CROW NORTH 2HM REV1

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 = 1,284.70' 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 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: 6,684' / TMD: 20,993'

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

COUNTY NAME PERMIT

03/17/2023

**OLD CROW N LEASE
WELL 2HM
TUG HILL OPERATING**

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

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	TIMOTHY, SR. & LINDA MCGINNIS	5-10-16	30.87
D	MELVIN E. JR., & ELIZABETH FERGUSON	5-10-16.4	30.87
E	WILLIAM A. PRASCIK, ET AL	5-10-2	52.00
F	ALVIN A. YODER	5-10-17	57.28
G	ALVIN A. YODER	5-11-10	31.91
H	SOUTHERN COUNTRY FARMS, INC.	5-11-9	54.625
I	DALISON LUMBER COMPANY	5-9-31	32.10
J	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
K	JOHN D. ROBERTS, ET UX	5-9-38.4	0.669
L	SHELVA G. SMITH, ET UX	5-9-38.3	0.706
M	SHELVA G. SMITH, ET UX	5-9-38.2	0.735
N	JOHN H. LONG, ET UX	5-9-38.1	0.815
O	ROBERT S. COWGILL	5-9-38.10	0.920
P	FRANK T. & ANNA M. WALKER	5-9-37	10.857
Q	JAMES EDWARD FRANCIS ET UX	5-8-8	28.30
R	EDWIN C. MILLER	5-8-7	180.31
S	RICHARD L. GATTS - LIFE	5-8-5	98.819
T	C. WAYNE BERISFORD	5-8-4	23.355
U	TAMMY L. MITCHELL	5-8-3	35.07

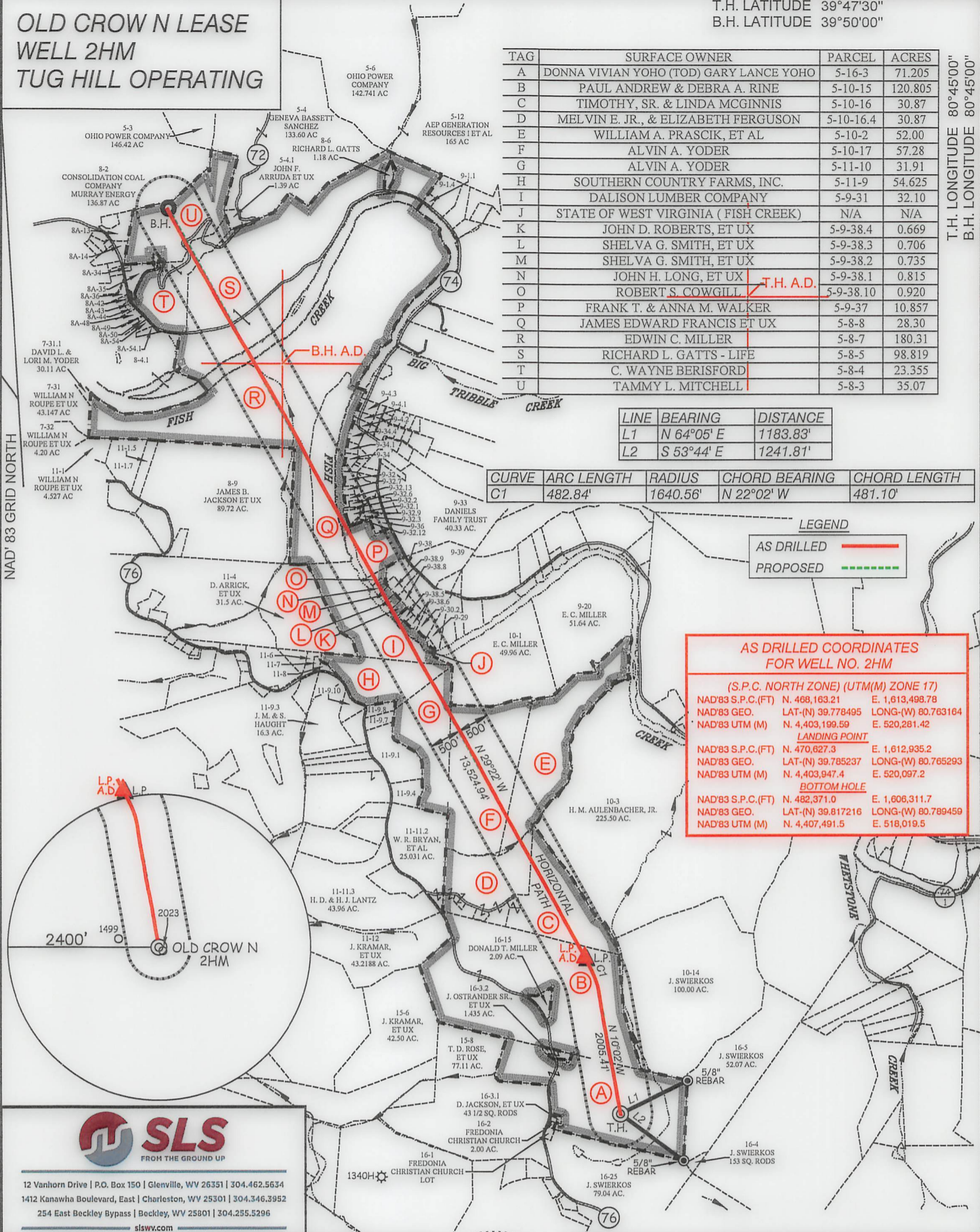
LINE	BEARING	DISTANCE
L1	N 64°05' E	1183.83'
L2	S 53°44' E	1241.81'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	482.84'	1640.56'	N 22°02' W	481.10'

NAD'83 GRID NORTH

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

5,871' B.H. A.D. 4,798' T.H. A.D.



LEGEND

AS DRILLED ——— (Red line)

PROPOSED - - - - - (Green dashed line)

AS DRILLED COORDINATES FOR WELL NO. 2HM

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

NAD'83 S.P.C.(FT) N. 468,163.21 E. 1,613,498.78
 NAD'83 GEO. LAT-(N) 39.778495 LONG-(W) 80.763164
 NAD'83 UTM (M) N. 4,403,199.59 E. 520,281.42

LANDING POINT

NAD'83 S.P.C.(FT) N. 470,627.3 E. 1,612,935.2
 NAD'83 GEO. LAT-(N) 39.785237 LONG-(W) 80.765293
 NAD'83 UTM (M) N. 4,403,947.4 E. 520,097.2

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 482,371.0 E. 1,606,311.7
 NAD'83 GEO. LAT-(N) 39.817216 LONG-(W) 80.789459
 NAD'83 UTM (M) N. 4,407,491.5 E. 518,019.5



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

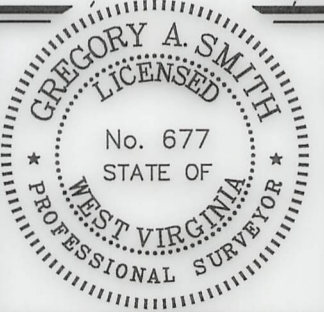
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(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

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) ———

00-00

(A)

SCALE 1" = 2000' FILE NO. 8796P2HMAD.dwg
 OLD CROW NORTH 2HM REV1

DATE JANUARY 17, 2023

REVISED

OPERATORS WELL NO. OLD CROW N-2HM

API WELL NO. 47-051-02192

NO. STATE COUNTY PERMIT

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

WELL OPERATOR TUG HILL OPERATING, LLC ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107

DESIGNATED AGENT DARREN BROWN - CT CORPORATION ADDRESS 5098 WASHINGTON ST. W, STE 407 CHARLESTON, WV 25313-1561

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