

**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 NORTH)

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"

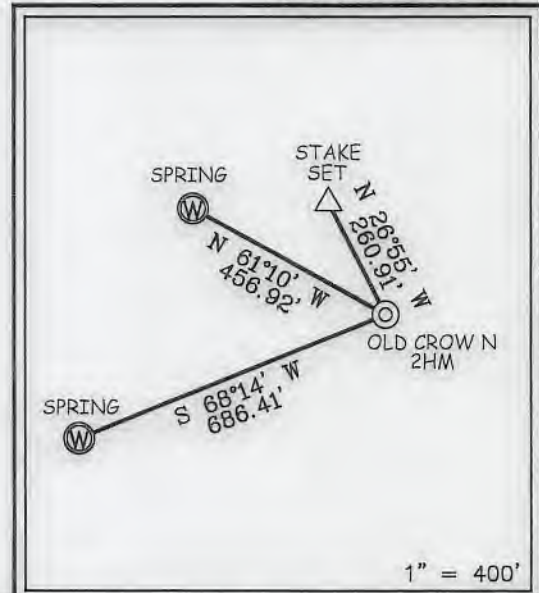
MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
5-8A-13	LETHA I. RUCKMAN	2.993
5-8A-14	BOARD OF EDUCATION	137 SQ RODS
5-8A-34	NORMAN G. JOHNSON ET UX - LIFE	11,123 SQ. FT.
5-8A-35	JARED C. SELLS	2.78
5-8A-36	WILLIAM J. GAMBLE ET UX	1.031
5-8A-42	ROBERT M. WHITE	7.23
5-8A-43	CHARLES G. STEIN & EVA A. WADE	75'x100'
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	4.327
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



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.

REFERENCES

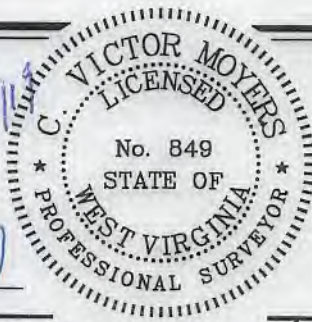


1" = 400'



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 22, 2018

REVISED 08/23/2018, 1/17/2019

OPERATORS WELL NO. OLD CROW N-2HM

API WELL NO. 47 - 051 - 02192
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8796P2HMR1.dwg
OLD CROW NORTH 2HM 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 = 1,284.70' 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: 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
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
FORT WORTH, TX 76107

DESIGNATED AGENT DIANNA STAMPER
ADDRESS CT CORPORATION SYSTEM
5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

COUNTY NAME
PERMIT

**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 PERGUSON	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	5-9-3	04/12/2019
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 T.H.	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. GATT'S (LIFE)	5-8-5	97.81
T	C. WAYNE BERISFORD	5-8-4	23.35
U	TAMMY L. MITCHELL	5-8-3	35.70

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

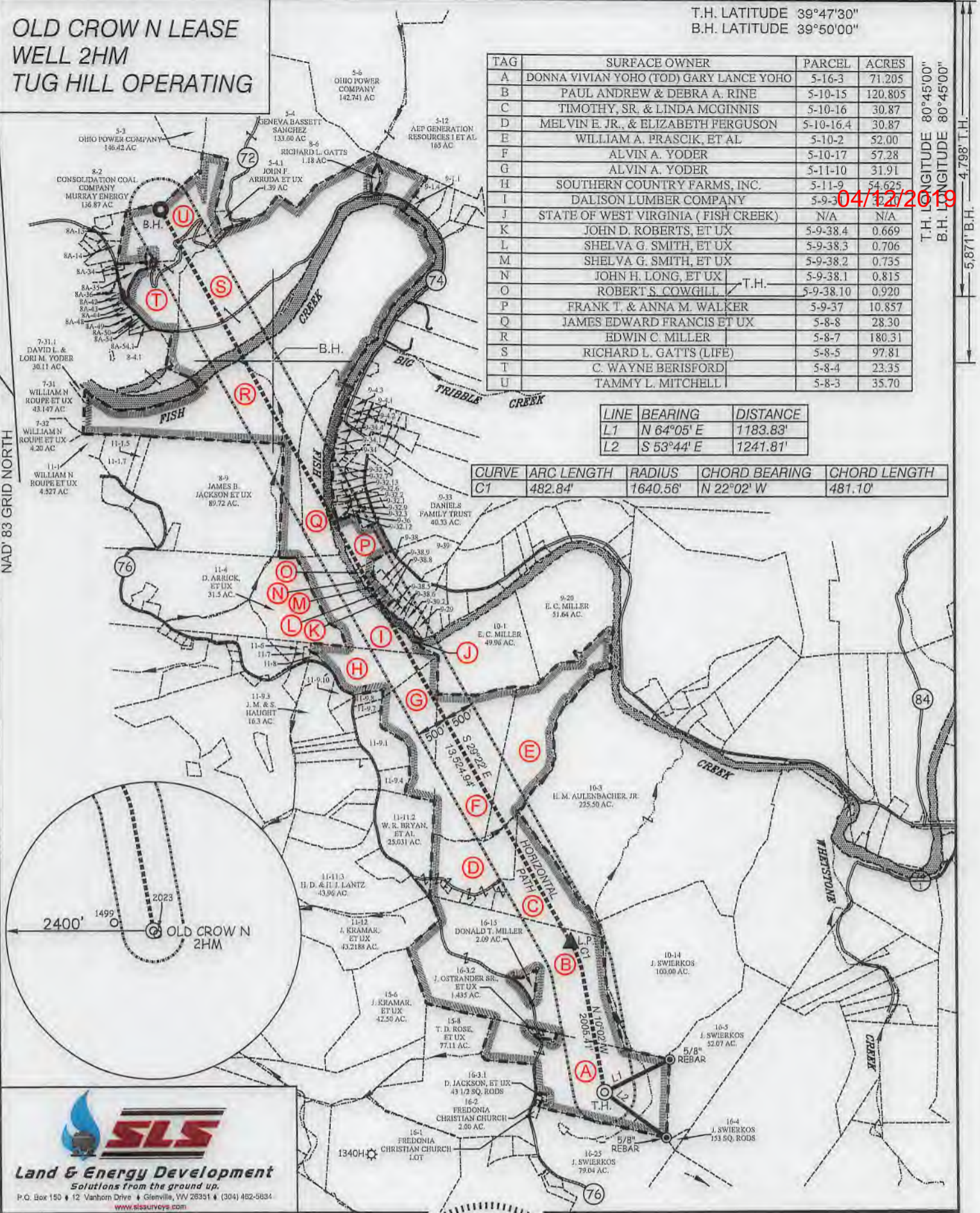
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	482.84'	1640.56'	N 22°02' W	481.10'

NAD'83 GRID NORTH

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

5,871' B.H.

4,798' T.H.



SLS
Land & Energy Development
Solutions from the ground up.
P.O. Box 150 • 12 Vanhorn Drive • Glenville, WV 26351 • (304) 482-5834
www.slsurvey.com

VICTOR MOYERS
LICENSED
No. 849
STATE OF
WEST VIRGINIA
PROFESSIONAL SURVEYOR

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

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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)

SCALE 1" = 2000' FILE NO. 8796P2HMR1.dwg
 OLD CROW NORTH 2HM REV1
 DATE JUNE 22, 2018
 REVISED 08/23/2018, 1/17/2019
 OPERATORS WELL NO. OLD CROW N-2HM
 API WELL NO. 47-051-02192
 STATE COUNTY PERMIT

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

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