



TOP HOLE LATITUDE: 39°47'30"
 BOTTOM HOLE LATITUDE: 39°50'00"
 S-11HM ○
 S-9HM(01979) ○
 S-9HM(01980) ○
 S-10HM ○
 N-4HM ○
 1H (051-01340) ○
 N-2HM ○
 N-3HM ○
 N-7HM(01978) ○
 N-6HM(01977) ○
 N-5HM ○
 N-11HM ○
 N-13HM ○
 N-12HM ○

REFERENCES
 SCALE 1"=200'

DETAIL
 SKETCH "A"
 SCALE 1"=400'

(BH) BOTTOM HOLE LONGITUDE: 80°47'30"
 (TH) TOP HOLE LONGITUDE: 80°45'00"

(TH) 5,880'
 (BH) 12,276'

NOTES
 1. BORE PATH BASED ON GRID NORTH.
 2. NO WATER WELLS WITHIN 250' OF WELL WERE FOUND, NO DWELLINGS WITHIN 625' OF PAD CENTER WERE FOUND.
 3. OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN MARCH, 2017. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
 4. WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

SURFACE HOLE
 UTM, NAD83, ZONE 17 IN METERS
 N) 4,402,871.71
 E) 519,133.47

LANDING POINT 1
 UTM, NAD83, ZONE 17 IN METERS
 N) 4,402,794.91
 E) 518,895.16

BOTTOM HOLE
 UTM, NAD83, ZONE 17 IN METERS
 N) 4,405,543.92
 E) 517,308.01

LINE	BEARING	DISTANCE
L1	N 42°05' E	2957.25'
L2	N 81°17' E	1995.20'
L3	S 20°57' W	137.62'
L4	S 31°17' W	544.21'

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 29°32' W	91.48'	804.35'	91.53'
C2	S 67°22' W	39.19'	32.26'	42.11'
C3	N 60°39' W	80.51'	185.66'	81.32'
C4	N 44°08' W	132.94'	750.29'	133.12'
C5	N 33°47' W	378.29'	2046.76'	378.83'

LEGEND
 - - - LEASED TRACTS
 - - - SURFACE TRACTS
 [Symbol] UNIT BOUNDARY
 (A) LEASE # (SEE 6A1 FORM)

FILE NUMBER _____
 DRAWING NUMBER BRYAN_WP_N-3HM
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION SUBMETER MAPPING
GRADE GPS

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 RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION



David L Jackson

JACKSON SURVEYING INC.
 P.O. Box 1460
 Clarksburg, WV 26302
 304-623-5851



WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET, SE
 CHARLESTON, WV 25304

DATE: DECEMBER 12, 2017
 REVISED DATE: AUGUST 10, 2018
 OPERATORS WELL NO. BRYAN N-3HM
 API WELL NO. _____
47-051-02000 MOD
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION ELEVATION 1191.0' WATERSHED (HUC 10) Fish Creek
 DISTRICT Franklin COUNTY Marshall
 QUADRANGLE Powhatan Point 7.5' LEASE NUMBER SEE WW-6A1 Form

SURFACE OWNER CNX LAND RESOURCES, INC. ACREAGE 81.98
 OIL & GAS ROYALTY OWNER MICHAEL R. BRYAN - SEE WW 6A1 LEASE ACREAGE 81.98
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___
 PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE (SPECIFY) _____
 PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
 TARGET FORMATION Marcellus ESTIMATED DEPTH TVD: 6,592' TMD: 17,324'
 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

COUNTY NAME
 PERMIT

**BRYAN LEASE
WELL N-3HM
510.31± ACRES**

GRID NORTH

Number	TAX MAP-PARCEL	ADJOINER OWNER	ACRES
S1	05-16-23.4	Michael R. & Brenda K. Bryan	3.0
S2	05-16-23.1	Ray E. Minor, Et Ux	2.0
S3	05-16-23.3	Greg & Christina Riddle	1.0
S4	05-16-24	Alan M. Beyser, Et Ux	1.083
S5	05-16-23.2	Alan M. Beyser, Et Ux	1.728
S6	05-16-25	John Swierkos	79.04
S7	05-16-22.1	Heather A. Burgy	1.465
S8	05-16-21	James M. Ruckman, Et Ux	60.75
S9	05-18-56	William E. O'Hara	3.965
S10	05-18-55	William E. O'Hara	3.202
S11	05-18-28	Dotson G. Harrison, Et Ux	6.36
S12	05-18-28.1	Carol Diane Helmick	5.696
S13	05-18-11	Benjamin Robinson	10.883
S14	05-18-11.2	Edward Lee Burge Jr.	2.0
S15	05-18-11.1	Edward Lee Burge Jr.	18.0
S16	05-18-15	Edward Lee Burge Jr.	2.495
S17	05-18-15.4	Edward Lee Burge Jr.	22.34
S18	05-18-15.3	Charles Yeater	26.44
S19	05-18-6	Charles Yeater	26.0
S20	05-18-5	Terry L. Melott	8.14
S21	05-15-11	Diana Henry Haynes & Carol G. Henry	65.59
S22	05-19-13	Rona Lee Rice & Charles Franklin McCardle	94.925
S23	05-14-15	Robert L. Shields Et Al	53.0
S24	05-15-15	Robert L. Shields Et Al	49.0
S25	05-12-11	Wesley R. & Wesley R. Bryan II	52.478
S26	05-12-12	Lionel L. Persinger, Et Ux	45.0
S27	05-11-17	Kevin R. Corley, Et Ux	36.13
S28	05-11-17.2	Brenda & Michael Bryan	11.504
S29	05-11-14.1	Dennis F. Moore, Et Ux	1.056
S30	05-11-16	Keith E. Haught, Et Al	83.674
S31	05-11-16.2	Joseph Haught	2.181
S32	05-11-9.3	Joseph M. & Steven Haught	16.3
S33	05-11-9.5	Southern Country Farms Inc.	2.559
S34	05-11-9.6	Southern Country Farms Inc.	2.488
S35	05-11-9.9	Leonard L. Parsons Et Ux	5.89
S36	05-11-9	Edwin C. & Kimberly A. Miller	54.625
S37	05-11-11.4	Brad M. & Amanda J. Blake	15.193
S38	05-11-11	Brad M. & Amanda J. Blake	5.0
S39	05-11-13	Joy D. Garlman & Arlin Gatts	12.29
S40	05-11-11.3	Herman D. Lantz	43.96
S41	05-11-11.1	Nellie Marie & Robert W. Spencer	5.813
S42	05-11-12	Joseph J. Kramer, Et Ux	43.2188
S43	05-15-4	Joseph J. Kramer, Et Ux	41.106
S44	05-15-5	Joseph J. Kramer, Et Ux	35.0
S45	05-15-6	Joseph J. Kramer, Et Ux	42.5
S46	05-15-6.1	Joseph J. Kramer, Et Ux	39.4
S47	05-15-13	CNX Land Resources Inc.	11.0
S48	05-15-7	Terry D. Rose, Et Ux	4.5
S49	05-15-8	Terry D. Rose, Et Ux	77.11
S50	05-16-3	Donna Vivian Yoho	71.205
S51	05-16-23	CNX Land Resources, Inc.	60.138
S52	05-12-08	Anita Rae Miller (Life)	100.35
S53	05-12-10	Consolidation Coal Company/ Murray Energy	13.76
S54	05-12-10.1	Consolidation Coal Company/ Murray Energy	38.48
S55	05-12-09	Lionel & Mary Lee Persinger	10.15
S56	05-11-1.4	Larry W. Dunlap, Et Al	32.493
S57	05-11-1.1	Larry W. Dunlap & Charles Leroy Dunlap	34.405
S58	05-11-1.2	Jay A. Conner, Et Ux	5.824
S59	05-08-9.1	Scott E. Jackson, Tammy S. South & Marion Jackson	1.957
S60	05-08-09	James B. Jackson Jr., Et Ux	89.723
S61	05-11-02	Walter C. & Cheryl A. Rina	42.367
S62	05-11-2.2	Joshua A. Myers	2.193
S63	05-11-2.1	Walter C. & Cheryl A. Rina	1.19
S64	05-11-3	Kevin R. Corley, Et Ux	13.18
S65	05-11-20	David E. Gray	0.569
S66	05-11-19	David E. Gray	0.532
S67	05-11-18	David E. Gray	0.569
S68	05-11-22	David Gray	0.353
S69	05-11-17.1	David Gray	0.297
S70	05-11-05	Kevin R. Corley, Et Ux	10.36
S71	05-11-5.2	Rickey Lynn & Victoria Rose Cross	1.0
S72	05-11-24	Charles Edward Furbee, Et Ux	0.603
S73	05-11-23	Owen Michael Barr	0.845
S74	05-11-25	Owen Michael Barr	0.598
S75	05-11-16.1	Susan Marie Smith (Life)	0.876
S76	05-11-5.1	James R. Anderson, Et Ux	0.205
S77	05-11-16.3	Kegan Michael Haught (Life)	3.265
S78	05-15-09	CNX Land Resources, Inc.	81.98
S79	05-15-14	John David Petrock, et al	25.0
S80	05-15-02	John David Petrock, et al	5.0
S81	05-15-03	Joseph J. Kramer, et ux	36.10



P.S. 708

David L Jackson



**TUG HILL
OPERATING**

OPERATOR'S
WELL #: Bryan N-3HM
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV

WELL PLAT
PAGE 2 OF 2
DATE: 12/12/2017
REVISED DATE:
08/10/18